1 Town development along the Tsukuba Express (TX) line (Katsuragi Area)

2 Outline of rainwater drainage measures

Oct. 11, 2013 Ibaraki Area Main Office, Tokyo Metropolitan Area Newtown Headquarters, Urban Renaissance (UR) Agency

Town development along the TX line (Katsuragi Area)

Town development along the TX line (Katsuragi Area)

1. Develop a traffic system in the northeastern metropolitan area





2. Mitigate the congestion of existing railways (e.g. JR Joban line)

3. Supply more housing land in the metropolitan area



4. Develop industrial infrastructure and create core business cities

Overview of the TX line



Development along the TX line



Aerial view of Katsuragi Area (before development)

1 Town development along the TX line (Katsuragi Area)



Outline of Katsuragi Area project

(Current official project plan)

- Type: Integrated special land
 redemarcation project
- Contractor: UR
- Area: 484.7 ha
- Planned population: 25,000
- Project period: 2000~2018
- Ave. site-area reduction rate: 40%
- Project cost: 670 billion yen

Project progress as of March 2013

- Development started 96%
- Development completed 80%
- Reserved land sold 42%





- ①Conserve and develop large green spaces; about 14 ha
- ②Create water-green networks by using regulating ponds
- 3 Lay power lines underground along main streets
- (4) Ensure a green space ratio of 30% of the entire development area
- (5)Implement rainwater detention/infiltration systems in the entire development area
- 6 Sell land to housing companies for the limited use of building eco-houses



Aerial view of Katsuragi Area after project



2 Rainwater drainage measures

River improvement with town development along TX



Rainwater drainage measures within the project area



Outline of the rainwater detention/infiltration system



Rainfall detention/infiltration measures



①Detention/infiltration for parks







The trench holds water between spaces of stones packed there.

2 Detention/infiltration for private houses



Structure of an infiltration pit



Infiltration pit for private houses







官民境界

Infiltration trench and pit



3 Detention/infiltration for public & commercial/industrial facilities



2 Rainwater drainage measures

Sample case



Sample case



4 Detention/infiltration for main streets



誘致施設用地 Commercial/industrial facilities

green: using stones pink: using synthetic resin red: detention/infiltration measures within facilities' property

2 Rainwater drainage measures

Sample case



Sample case



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Sample case

