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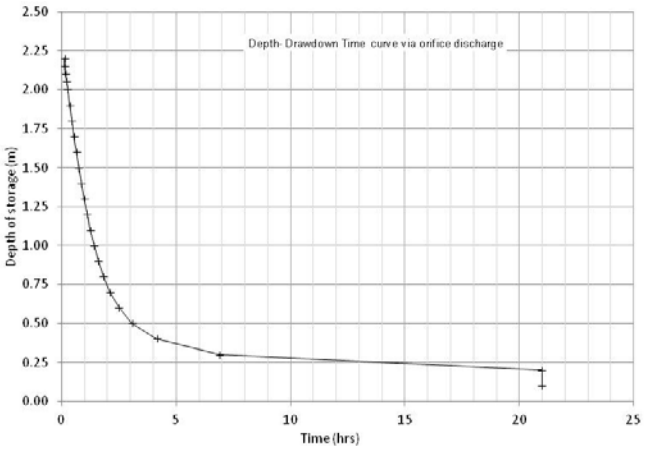
**PROJECT DATA SHEET**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|---|---|
| **PROJECT:** | **ORANGE GROVE STORMWATER DESIGN** |
| **LOCATION:** | **ORANGE GROVE, TRINIDAD** |
| **OWNER:** | **The University of the West Indies** |
| **CLIENT:** | **Facilities Management Division, UWI** |
| **SECTOR:** | **INFRASTRUCTURE** |
| **PROJECT VALUE:** | **TT$9.5m** |
| **PROJECT COMPLETION:** | **Apr 2013** |

## Project Description

This project entailed the analysis and design of a comprehensive stormwater management system for a new 80ha (200 acres) mixed development site for institutional use. The system was designed to incorporate runoff from a mix of housing, commercial, agricultural and educational development.

The perennial flooding problem experienced at this site and the anticipated use of the land prompted the Client to carry out a detailed study of the site and catchment which included the design calculations for stormwater channels, detention pond system and catchment performance during rainfall events.

## Our role

The overall scope of our responsibility under this project was as follows:

- Carry out a desk study to understand the history and surrounding nature of the site.
- Undertake a detailed topographic survey of the main site and bordering watercourses.
- Carry out an analysis of the catchments to understand the runoff characteristics
- Model the performance of the catchment for specified rainfall events
- Work with statutory guidelines and data (Ministry of Works, Water Resources Agency) for ratification of design parameters
- Develop detailed calculations, designs and drawings to enable construction works to commence
- Produce a technical report on the adequacy of the entire system under a 1:50 storm event.

23 wittet drive · central park · couva · trinidad · west indies
email: rivelinconsultants@gmail.com
tel 1.868.636.5108 · fax 1.868.636.2973 · mobile 1.868.758.3448