

## SCHEME

Stormwater Drainage

## CLIENT

Heathrow Airport Terminal 5 Expansion

## CONSULTANT

Black and Veatch Consulting

## CONTRACTOR

Laing O'Rourke

## PIPE APPLICATION

**475m of 1200mm diameter WEHOLITE HDPE pipe**  
**750m of 1350mm diameter WEHOLITE HDPE pipe**

## WEHOLITE drainage system for Heathrow's Terminal 5

Advance drainage work for the £2.5 billion Terminal 5 expansion at Heathrow Airport has involved the use of WEHOLITE large diameter plastic pipe from ASSET International Ltd.

The high technology HDPE (high density polyethylene) pipe has been used to form sections of stormwater drainage for the project in advance of construction of the terminal itself.

The pipes have been laid in two main runs along the western perimeter road comprising of 475m x 1200mm diameter and 750m x 1350mm diameter WEHOLITE pipe. One run conveys run-off from the urban area to the north of the airport, diverting it around the airport to the existing north west balancing pond. The second will act as a main stormwater carrier, handling a significant proportion of run-off from the central terminal building, landside campus, northern aircraft stands and taxiways. This will discharge to Clockhouse Lane pit via the new storm water outfall tunnel.

1200mm diameter WEHOLITE pipe was chosen because of the extremely restricted working

environment faced – the pipe route is sandwiched between the perimeter road and the airside fence. "Because WEHOLITE is lighter than the concrete equivalent, the required working area is reduced which has produced a more cost-effective solution," said Ben Waters, Design Engineer at Terminal 5. He also notes that WEHOLITE's flexibility meant that it was much easier to lay the drainage run to follow the road curvature.

Overall they provide an environmentally-friendly alternative, and ASSET International Ltd believes that cost savings greater than 15% can be achieved over traditional alternatives by the time the pipe is in the ground. The pipes are also flexible, so they don't crack with ground movement, yet are durable and abrasion-resistant.

When completed, Terminal 5 is designed to handle 30 million passengers a year. The massive project is scheduled to be ready for operation in spring 2008 for client, BAA.

## THE ESSENTIAL SOLUTION FOR PIPE USERS NATIONWIDE

CONTACT ASSET International Ltd:

Head office: Stephenson Street, Newport, South Wales, NP19 4XH  
Tel: 01633 271906 - Fax: 01633 290519 - E-mail: sales@assetint.co.uk - Web site: www.weholite.co.ukScottish office: 1 McMillan Road, Netherton Industrial Estate, Wishaw, Lanarkshire, ML2 0LA  
Tel: 01698 355838 - Fax: 01698 356184