7. Flooding Assessment

7.1 The Strategic Flood Risk Assessment determined the protection offered by the fluvial and tidal defences in a cautious manner and in year 2002 these were deemed to provide the respective 1.0% and 0.5% standards of protection as recommended in PPG25 for a zone 3 area.

8. Site Cross Section

8.1 Ordnance datum related cross section has been sketched from the fluvial River Welland to the site.

9. Flood Rate

9.1 Within the Fenland environment of the South Holland area protected by sea defences, tidal embankments, fluvial embankments, tidal & fluvial structures and very importantly continued operation of the Internal Drainage Boards it is inevitable that worst case scenarios could occur.

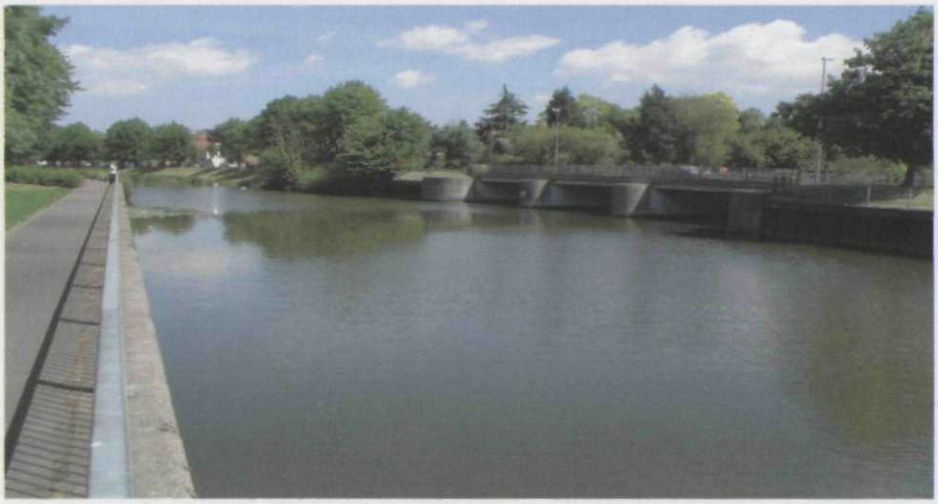
9.2 Sea defence and tidal breaches would subside with the ebbing tide but fluvial events could potentially continue over a considerable period of time.

9.3 The sophisticated drainage system around the application site is so controllable that the likelihood of flooding is unlikely.

9.4 Should a breach occur in the sea defences, because of the site location, should have no effect.

9.5 Should a breach occur in the tidal embankments because of the site location, should have no effect

9.6 The worst case scenario for the application site is if fluvial River Welland flows are becoming too intense and the tidal River Welland "tide locks" the system, the Cowbit Wash would need to be inundated by the Four Mile Bar automatic syphonic weir. Therefore flood waters would be on the West of the Barrier Bank adjacent to the site – this operation has yet to be used and because the Cowbit Wash is such a vast functional flood plain would have no effect on the application site.



COWBIT ROAD SLUICE – FLUVIAL RIVER WELLAND / CORONATION CHANNEL