

TECHNICAL NOTE

Project: **Stoke Park, SANG**
Subject: Parking Design
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Page 1 of 1

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Introduction

This Note has been prepared to summarise design parameters used for the car park external works and earthworks. The new parking will connect onto the existing road.

Parameters

As geotechnical laboratory testing is underway, we have assumed a CBR value of 2% for the car park area. As the carpark is going to have minimal heavy traffic, we have used NHBC specifications for external works as well as Hampshire County Council Regulations.

NHBC Section 10.2.6 table 3 states that CBR values of 2-3% subgrade thickness needs to be 325mm. Hampshire County Council, TG6-1 Pavement Foundation Design, section 4.17 Frost Protection states that a minimum of 450mm be used for overall construction thickness. The design of the carpark is within these limits as the formation level has been set to a depth of 450mm.

The car park cross fall has been designed to a maximum gradient of 1:21. The car park falls have been set to match the existing ground as close as possible, the falls have been set to allow surface water to run off the Northern edge into a new drain ditch. The drain is connected to a new pond which will serve as a permanent water feature as well as storage detention for storm events.

All earth banks have been graded to have a slope no more than 1:4. There will be a new cut off ditch on the Southern side of the parking to intercept any surface water runoff that would reach the new parking area.

Vehicle tracking has been completed using standard design vehicles as well as a fire tender. Signage has been provided on the passing bay opposite the parking entrance to prevent parking.

Conclusions

Final design checks will be completed once geotechnical laboratory results have been completed. We trust that you satisfied with the above design and are happy to discuss the matter further should this be necessary.