

NEW ASDA STORE THRUM HALL LANE, HALIFAX

RETAINING STRUCTURES

Product: MacWall

Problem

Originally purchased for £3,000, the 55,000 square yard historic grounds at Thrum Hall played host to many prestigious Rugby League, County Cricket and outdoor bowling events since 1886. The site was sold to the Wal-Mart Group in 1998 for £2.2M for an Asda supermarket development. The proceeds from the sale were to enable Halifax Rugby League Football Club to complete a redevelopment of The Shay Stadium.

In early 2003, the client's consulting engineers, MJMC Group, approached Maccaferri to propose solutions for the significant retaining structures that were required due to the re-contouring of the site for the new supermarket development.

A flexible, robust yet aesthetically pleasing retaining system was required capable of coping with numerous changes in ground levels whilst supporting a car park, access roads and pedestrian ramps.

Solution

The chosen solution was the MacWall Diamond dry build segmental block retaining wall system due to its rapid speed of construction, flexibility and high quality aesthetically pleasing finish.

Working in close collaboration with the client's consulting engineers Maccaferri Ltd provided a professionally indemnified design and supply package for the retaining structures. The MacWall Diamond retaining walls provided a robust engineered solution capable of providing a suitable foundation for the vehicle crash barriers and the 10kN/m² surcharge loading from the car parks.

MacWall Diamond blocks are durable concrete products that connect together using a rear lip locator on the back of each block.

Retaining Wall Contractor:

HEWLETT CIVIL ENGINEERING, LEEDS

Main contractor name:

HBG CONSTRUCTION LTD

Consulting Engineer:

MJMC GROUP, WAKEFIELD

Product used:

MACWALL "DIAMOND", PARAGRID

Construction date:

SUMMER 2005



Post construction



Post construction



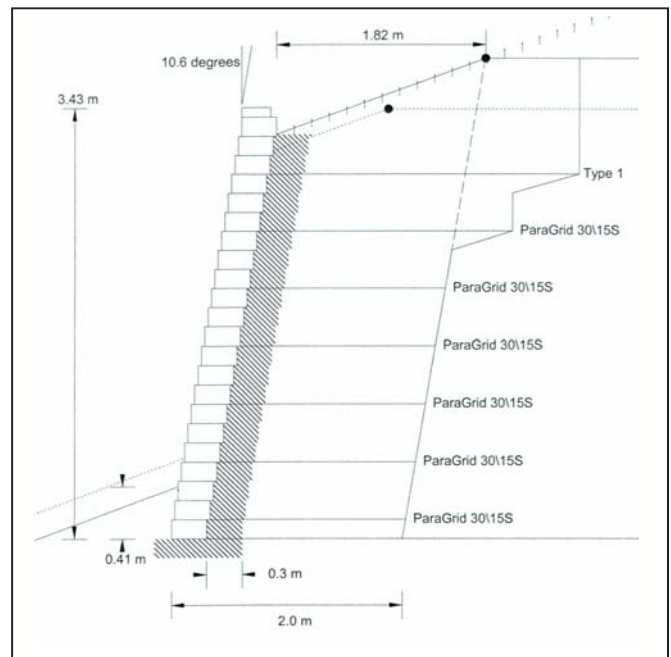
Post construction

The MacWall Diamond blocks formed a facing to a cost efficient and environmentally friendly geogrid reinforced soil block behind. The reinforced soil block consists of several layers of BBA certified Paragrid 80/15s geogrid placed horizontally within compacted spoil recovered from other areas on the site. Re-using site-won material meant that there was no need to export spoil or import expensive engineered fill thus considerably reducing the number of vehicle journeys to and from the site.

The trapezoidal shape and size of the MacWall Diamond blocks easily permitted curves and steps in the foundation to be formed.

Unlike conventional retaining walls, the MacWall Diamond system does not require concrete foundations, can be installed by semi-skilled labour and requires no curing time so can be loaded immediately after the last block is laid.

The MacWall Diamond blocks were supplied in a Sandstone colour complimenting the buildings surrounding the site.



Typical Drawing



Post construction

Maccaferri Ltd - Head Office
 7600 The Quorum,
 Oxford Business Park, North,
 Garsington Road, Oxford, OX4 2JZ
 Tel: 01865 770555
 Fax: 01865 774550
 Email: oxford@maccaferri.co.uk
 Web: www.maccaferri.co.uk

Area offices

Perth:
 T: 01738 621317 F: 01738 442283 E: perth@maccaferri.co.uk
Belfast:
 T: 028 9026 2830 F: 028 9026 2849 E: belfast@maccaferri.co.uk
Dublin:
 T: 01 885 1662 F: 01 885 1601 E: dublin@maccaferri.ie
 Web: www.maccaferri.ie



Oxford, Perth, Belfast