



MARCH 2009 ISSUE 12

NEWSFLASH
RECENT CONTRACT AWARDS

Dunne Building and Civil Engineering Ltd



EASTERBUSH RESEARCH CENTRE

90148

Project: Easterbush Research Centre, Edinburgh Project
Package: Sub & Super Structure Concrete Frame with 2
Tower Cranes
Client: BAM Construction Ltd

90149

Project: Livingston Regional Distribution Centre
Package: Civils work comprising of access road and
muck shift
Client: Lidl UK



BOLTON COMMUNITY COLLEGE

90150

Project: Bolton Community College
Package: Drainage, Groundworks and Concrete Frame
with 3 Tower Cranes
Client: BAM North West

Dunne Concrete Flooring Ltd



CORUS STEELWORKS, CAMBUSLANG

50071

Project: Corus Steelworks, Cambuslang Site
Package: Concrete Floor Slab
Client: Balfour Beatty

INNER CITY BUILDING!
Dunne unveils new Cornerstone development



Cornerstone, West Regent Street, Glasgow

Works commenced in January 2008 on this prestigious Grade (A) Office Building for joint Clients, Ashford and Kenmore Property Groups. The site is situated on the corner of Wellington Street and West Regent Street in Glasgow's business district and is bounded to the north side by a small lane and the east side abutt's an existing building providing very little area for storage and manoeuvring. This meant that site logistics and deliveries etc, had to be carefully planned from the outset of the project.

Once hoardings and pedestrian tunnels were erected the initial works consisted of sheet piling the site perimeter on the site boundary abutting existing footpaths and services which was strictly controlled to avoid damage to adjacent buildings, services and footpaths. Upon completion of sheet piling works existing perimeter stone walls were removed and bulk excavation carried out to form the lower ground level.

The lower ground floor slab was constructed on large spread strip and pad founds over recycled type 1. The steel frame was erected off the lower ground floor slab to form the 7 storey building, upper floors consist of concrete on metal decking and all floors were poured by Dunne Concrete Flooring Ltd.

A luffing jib SN86 crane provided by Dunne Plant Hire Ltd was used to erect the steel frame and metal decking as adjacent buildings could not be oversailed. Many road closures were required throughout the project for mobile cranes to erect and dismantle the tower crane and for concrete pumps and mobile elevating work platform access due to the very tight constraints on the site.

A very challenging part of the project was constructing the external skin to the top 3 floors of the east elevation of the building

and this involved working closely with the project team at an early stage to integrate cantilever steel beams into the permanent structure to support the temporary scaffolding as no loads were permitted to be transferred onto the existing adjacent building.

Internally, the building is arranged over lower ground, ground and 5 upper floors providing 20,665sq.ft of new office accommodation. Entered through a distinctive entrance hall, a passenger lift provides access to all levels, including the lower ground floor and car park. The building has been carefully designed to create maximum flexibility allowing a single tenant to occupy the entire building, or alternatively, the floors are self-contained and capable of being occupied on a floor-by-floor basis.

The external envelope of the development consists of an SFS inner leaf, Stone Cladding using Peak Moore Sandstone at high level with Dunhouse Blue Stone at street level topped with a single skin flat roof. The stone cladding is a very important aspect of the project to the City Planners and the Client and was therefore closely monitored during the course of the project to ensure that it blends in and compliments the surrounding buildings. All stonework and SFS works were carried out to a premium standard by Stoneguard (UK) Ltd.

Designed to provide modern flexible office accommodation, Cornerstone has been specified to the highest standards throughout including; Metal deck full access raised floors for complete office flexibility, LG7 lighting, Self-contained male / female and disabled toilet facilities on each floor. Six secure car parking spaces accessed via an automated stacker system and a VRF Air Conditioning System. This important city centre project is due for completion mid March 2009.

A LANDMARK PRECAST ARCHWAY

History repeats itself with the delivery of a new archway in Edinburgh City Centre



CABOT HOUSE BRISTOL

70026

Project: Cabot House, Bristol Site
Package: Supply and install p/t to 5 floors
Client: John Cooper Construction

70027

Project: Bolton College Site
Package: Design, Supply and install p/t to 4 floors
Client: Dunne Building & Civil Engineering Ltd

ALL SET FOR BOLTON

Works commence at the new community college



Bolton has been given an £80m boost to fund two state-of-the-art learning centres and again Dunne is at the forefront of operations alongside main contractor, Bam North West. The new buildings will provide new homes for Bolton Community College and Bolton Sixth Form College - creating a single campus for thousands of students.

Through extensive design and value engineering and by blending pre-cast and post tensioning methods this four storey 4500m² footprint is scheduled to be complete in just over 30 weeks. With 120+ columns per floor the need for efficient crane planning is a necessity and by carrying out the design and manufacture of the columns from our pre-cast yard in Bathgate, this will give us a further 50% more hook time for the remaining 5000m² of vertical elements. With neighbouring apartments and a live command centre fire station within the site boundaries Dunne Plant Hire Ltd are providing 3 luffing jib cranes for the scheme which are to be installed in early March.

Conforce Ltd are designing and installing the post tensioning package from April so the project is certainly falling into the fast track bracket and with the focus on education DBCE have already employed a further two apprentices for this contract and are training them in the Dunne way.



The Archway at Scottish Widows in Edinburgh



The fabrication of the moulds are completed



The pour gets underway



The breaking out of the moulds begins

The original archway to the old meat market which operated from 1884 until 1920 was carefully dismantled and taken to a stonemason's yard for cleaning before being relocated. In its place will be a new bespoke precast concrete arch over the Millennium Link path to form the entrance to the new Scottish Widows head office in Edinburgh City Centre.

The precast arch itself, which is being produced on behalf of our client Bovis Lend Lease will be made up of 6 individual pieces which vary in weight between 4 and 15tons and comprises of over 30m³ of reinforced white concrete.

At our Bathgate Headquarters Precast Facility, Manus Sweeney and his team got to work immediately on the complicated moulds exercising the finest techniques and skills available to design and fabricate in advance of the pour. The standard of work demonstrated has resulted in a product of premier quality which the present/future team can be immensely proud of.

Whilst our highly trained staff continued forming the arch, worked progressed on site forming the new pile caps and ground beams on which the arch will be assembled.

The installation of the arch has also presented us with a great challenge due to the weight and restricted space on site. The thought of a tandem lift was initially proposed but after further discussion it was decided that we should proceed with one crane and a chain block due to the heavy individual parts that have to be lifted, firstly on their broadside and then turned around in mid-air to achieve a plumb lift.

The installation is a three step process that involves grouting each piece together and leaving it to cure for one week before proceeding to the next. Dowel bars protrude from each unit and go into pockets that have been filled with high strength grout to the exact amount. The grout forms a footing for each unit to bed into forming a solid joint.

We hope this is only the beginning of a new range of premium quality bespoke precast products that we can deliver for future clients.