

Grosvenor Estates

Project team

Given the heat he is subjected to, Holmes can be forgiven for sweating a little. As Grosvenor's retail projects director he is overseeing a £1bn project to construct a 17 ha city quarter on and around Paradise Street. This scheme is challenging because of its scale and grandiose ambition, but these are amplified by events beyond the developer's control, such as Liverpool being declared Europe's Capital of Culture for 2008 and the rise in construction costs.

The Paradise Project is crucial to the successful regeneration of Liverpool's city centre, which has lost retail traffic to other regional cities and out-of-town malls. "One way to fight back was to create as much variety, choice and surprise as possible," says Holmes. Rather than keeping things simple and employing one architect to design a straightforward mall, he opted to introduce variety and surprise by constructing 40 buildings, including shops, apartments and offices, and appointing a squad of 22 architectural practices to design them. These include Glenn Howells, CZWG and Austin-Smith:Lord.

And the architects are just the visible bit of this enormous iceberg. Ninety other consultant firms are involved in the project, which means that co-ordinating the individuals who make up the project teams is "hugely complex", in the words of Richard Taylor, partner in Davis Langdon, which is the cost consultant on the project. "It's by far the hardest thing I've worked on."

The fact that Liverpool is Capital of Culture this year has added to the pressure, as completion was brought forward from 2009 to 2008. "The city becoming the capital of culture was an impetus to open as much as possible in 2008, as retailers want to benefit from the extra footfall," says Holmes.

Money has been a worry, too. "We have always been under pressure to move it forward financially," he says. "Another big problem has been getting contractors to accept risk and to get them to procure trade packages competitively." (See box, page 53.)

The only way to keep up with the demanding programme was to design the scheme as it was being built, using a two-stage tendering process. The architects were asked to produce concept designs and

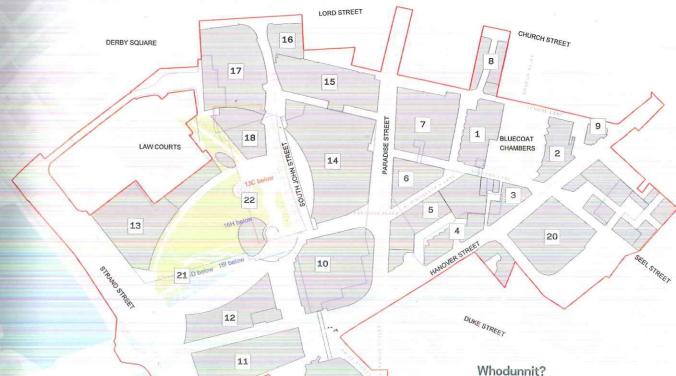


these were used to obtain outline planning permission. Responsibility for detailed design has been handed over to the

In August 2003, quite early in the process, Laing O'Rourke was selected as delivery partner for the scheme. Grosvenor then opted to reinforce it with other contractors, including Kier and Balfour Beatty. The bulk of the project was split between Laing O'Rourke and Balfour Beatty, which

contractors.

The park at the centre of the scheme will become on of Liverpool's principal green spaces. Two thousand car parking spaces are provided underneath it



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1 shopping arcade 2 Friends' Meeting House BBC3 retail units 4 retail 5 department store, retail and apartments

6 retail, apartments 7 retail, apartments 8 retail, apartments

9 Herberts Hairdresser 10 John Lewis 11 Bus station

12 Hilton hotel 13 apartments

14 retail, leisure 15 Odeon 16 retail

17 Debenhams 18 Pavilion in the Park* 19 multistorey carpark 20 residential, retail and

multistorey carpark 21 water feature 22 underground carpark BDP (Liverpool)

Haworth Tompkins Brock Carmichael Hawkins/Brown Stephenson Bell Glen Howells Haworth Tompkins Greig & Stephenson FATCZWG John McAslan + Partners Wilkinson Eyre Michael Squires & Partners/Aedas Pelli Clarke Pelli/ Brock Carmichael Allies and Morrision BDP (London) BDP (Glasgow) Marks Barfield Groupe Six Glenn Howells Wilkinson Eyre Austin-Smith:Lord

Dixon Jones

Page & Park

Ainsley Gomman

*to be built at a later date, subject to funding

Gross Max

Paradise street: the big picture





ALBERT DOCK

Waterman Partnership



RICHARD TAYLOR, PARTNER, DAVIS LANGDON

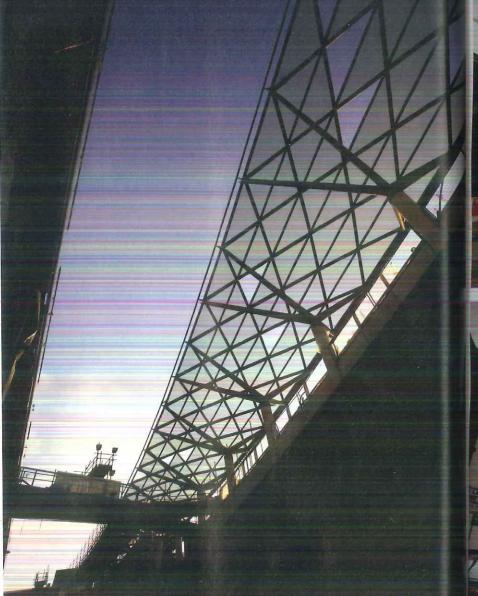
spread the risk but kept things simple. "Like any large project, it breaks down into a number of parts and can go horribly wrong at the interfaces," says Bill Allen, Grosvenor's technical director. "To have put it into one hand would have been too

Balfour Beatty is responsible for £110m of work to the east of Paradise Street and Laing O'Rourke is looking after the £400m west side. They have both taken responsibility for working the concepts into detailed designs. In some cases this is being done by the original architects, but most is being done by architect Building Design Partnership, which was also responsible for the masterplan.

Once the detailed designs of elements are completed, they are being tendered out to specialist contractors. Grosvenor, Davis Langdon and the contractor choose the successful subcontractor, with Grosvenor bearing the financial risk of the two-stage process.

Unfortunately, Grosvenor has suffered from tender price inflation, which Davis Langdon's Taylor says has been running at 6% a year for the past two years. Ironically, this inflation has partially been fuelled by the demand created by the Paradise Project. "It's created its own mini inflationary environment, owing to the boom in north-west England. This area has a much higher rate of inflation than when we started out," says Grosvenor's Allen.

Both main contractors have used their in-house supply chains where possible.







How a lack of competition leads to spiralling costs

After having to find an extra £140m to finish his project, Grosvenor's Rod Holmes is understandably unhappy. He believes the industry suffers from what he describes as "structural problems" when it comes to procurement - and by this he means designers as well as contractors. "As clients we want real competition between specialists, but it is very difficult to do that as you can't complete the design and get a price until the specialists are on board," he says. "It's a chicken-and-egg situation."

Holmes says the industry's panacea is co-operative forms of working such as partnering, which is a procurement route he has little time for. "When it comes to delivery in virtually every other sector, such as health or education, people expect competition. Bizarrely, in construction we don't get this.

"We have to get back to the situation where general constructors and specialists can secure work and make good returns by being creative and efficient technically and commercially on well managed sites."

Opposite page: The support structure for this glass canopy on South John Street was going to be prohibitively expensive until Laing O'Rourke found a way of saving money by sourcing the components from China

Left: New buildings for the site's existing occupiers had to be completed before the main part of the scheme got under way. This included a new home for the BBC (above) and Herberts Hairdressers, which occupies the Bling Bling building (below).

This is what a bomb looks like ... how Paradise Street was built

Virtually the whole site was derelict before Grosvenor took it over. Some of it was bomb damaged and much of the rest was occupied by car parks, along with warehouses, derelict listed buildings and a hotel full of old mattresses that were classified as hazardous waste. There were some occupied buildings, including a BBC office, a hairdressers and a bus station. These three organisations had to be accommodated, and all the

parking spaces had to be retained. Laing O'Rourke started work on

site in October 2004. "The first thing that happened was the bus station had to be relocated to the south," explains Gerry Whyte, the firm's project leader. "That had to happen quickly, as we couldn't start work on the retail elements until it was complete."

Next, the existing tenants had to be relocated to new buildings. Getting rid of the old car parking proved more problematic than

first envisaged. "A lot of remedial work had been carried out on it over the years so it wasn't very stable," says Whyte. "We didn't know how it would react to demolition works, so with the demolition contractor DSM we decided to blow it down."

A large part of the west side of the site was built over a massive basement containing car parks and service yards. Whyte says every single pile had to be probed for unexploded bombs from the

void in the centre into which concrete is poured for maximin has been challenging. It has strength. This cuts out the net brought in 10 tower cranes to

war. "Everyone was inducted Balfour Beatty started later, in to what a bomb looks like, "he middle of 2005, and has Off-site techniques have he demanding programme. Laing O'Rourke used its subsidiary, own in hearty started later, in the middle of 2005, and has adopted an almost identical approach to structural construction. Laing O'Rourke had the advantage of Expanded, its O'Rourke used its subsidiary,
Malling, to produce precast fire
elements such as beams and they are pre-cast walls. These are pre-cast structural wall sections, with specialist.

ease the movement of materials, but Alan Henshaw, Balfour's project director, says even this was not enough. "We couldn't fit any more on the site," he says. "Then there weren't enough hours in the day, so the cranes have been working at full capacity including at nights and weekends." He says that bad summer weather has not helped, nor has the fact that one very tall crane oversails six others. "It has been managed very carefully with

lots of banksmen, but even so its potential is significantly reduced," Henshaw says.

Another tightly-congested area is the drains. "We've had to slot new drains under the road, which is a minefield of existing services," says Henshaw. He says mining under them, rather than digging up the road, was the answer. "It was the quickest way of doing it," he says. "It's much easier than trying to liaise with all the utilities."

Both contractors say the worst bits are over. Whyte is confident about completing the Laing O'Rourke retail elements by March. "It's all on schedule, I can say hand-on-heart."

Meanwhile, Balfour Beatty is beginning to take tower cranes down, a moment described by Henshaw as "significant". A million square feet of the site will open in May with the eastern half of the site opening later in the year in September.