

Royal Sussex County Hospital Understanding the 3Ts Redevelopment



Index

The Redevelopment: an overview	3
Key benefits	4
How do you redevelop a large, working hospital?	5
Decant: What's going where?	6
The Helideck	7
Stage 1: January 2016 to summer 2020	8
Stage 2: summer 2020 to summer 2023	10
How the hospital site will change	12
Frequently asked questions	14
Construction traffic routes	16
Meet the hospital's 3Ts Team	18
Meet the Laing O'Rourke Team	20
Images of the redevelopment	21
What's happening now? The year ahead	23
For further information	24

The Redevelopment: an overview

The 3Ts Redevelopment of the Royal Sussex County Hospital is a £485 million programme to replace all the buildings on the front of the main hospital site. It will happen in three stages and take nine years to complete. This will ensure the hospital and all its clinical services can continue to run throughout the redevelopment.

The Stage 1 Building will be built on the south east quarter of the hospital. At the same time a helideck will be constructed on the top of the Thomas Kemp Tower. This will be used to move the most severely injured and unwell patients.

The Stage 2 Building will take up the south west quarter of the site. Together Stage 1 and Stage 2 will replace thirteen existing buildings. This includes the Barry Building which is the oldest, inpatient ward block in England. It opened its doors 20 years before Florence Nightingale started nursing. The third stage will be a new delivery and service area to improve site management.

The 3Ts in the redevelopment's name stand for Trauma, Teaching and Tertiary Care. The project's remit is not limited to these areas though. It will improve conditions for patients and staff in more than 40 wards and departments.

The building company Laing O'Rourke has been appointed as the lead contractor for the redevelopment.

Stage 1: January 2016 to summer 2020

Stage 2: summer 2020 to summer 2023

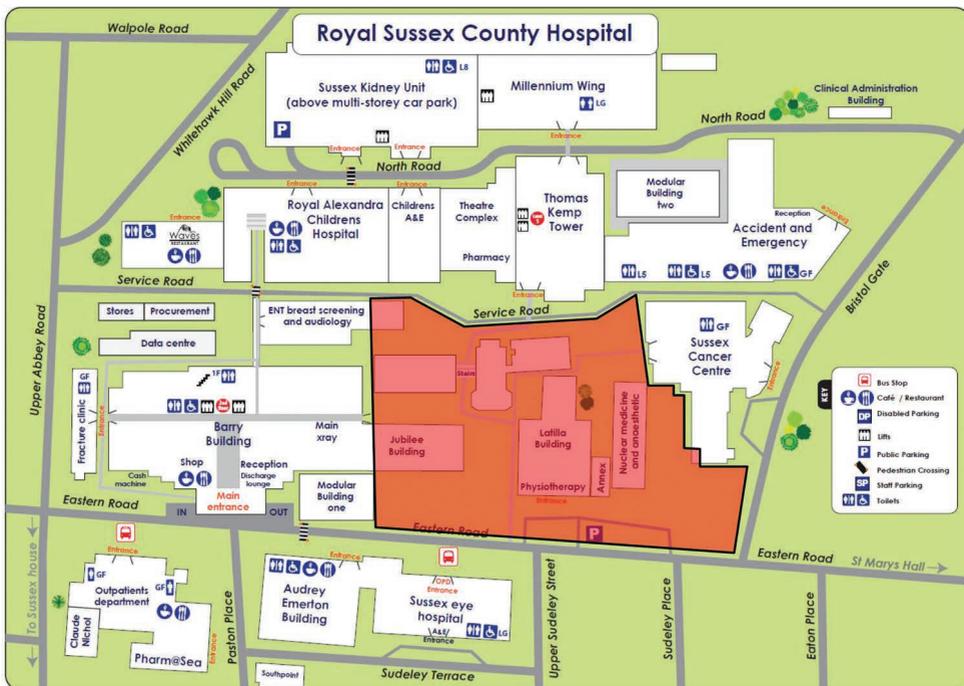
Stage 3: summer 2023 to summer 2024

Key benefits

- Improving the hospital experience for hundreds of thousands of patients and visitors every year
- Providing new, state of the art, facilities for more than 40 wards and departments
- Preparing the hospital to meet the healthcare needs of its patients for decades to come
- Moving 200 inpatient beds from 19th century buildings into brand new accommodation
- Having 65% of the beds in the new buildings in single, en-suite rooms. The rest will be in single sex, four bedded bays
- Increasing the capacity for the departments with highest demand, including Cancer Services, Neurosciences, Stroke Services and Intensive Care
- Providing up to date facilities for the hospital's Major Trauma Centre
- Building a helideck so that air ambulances can land on the hospital site rather than in East Brighton Park
- Offering patients and visitors dedicated parking directly beneath the new buildings
- Making it easier for everyone to get around the hospital site and to find their way from the spacious new main entrance to all of the hospital's buildings

How do you redevelop a large, working hospital?

With very careful planning. The first of the new buildings is going on the south-east quarter of the site. This is the area with the fewest clinical services.



The area required for the first new building – called Stage 1

All the administration, management and support services in the area have moved to St Mary's Hall, just along the road from the hospital, or into other parts of the site. The four clinical departments and three wards that need to move are going to brand new, modular buildings on site.

The plan to clear the space for the Stage 1 Building is called 'decant'. Overall it will move more than 500 staff members and dozens of departments.

Decant: what's going where?

Administration, management and support services

Most of the administration, management and support services that need to move are already at St Mary's Hall. It will stay as an administration centre when the redevelopment is completed.



Outpatient Services

Physiotherapy Outpatients, Rheumatology Outpatients, Nuclear Medicine and Radiopharmacy move into the Hanbury Building at the front of the hospital site.



Wards

Our infectious diseases and cancer wards have moved from the Jubilee Building at the front of the site to the Courtyard Building next to the Thomas Kemp Tower.



The Helideck

The helideck is being built on top of the Thomas Kemp Tower, the highest point of the hospital. A new lift will be added to the south face of the tower block. It will only be used for getting patients to and from the helideck. This is the only permanent part of the redevelopment on the back half of the hospital site.

Currently the air ambulance lands in East Brighton Park and patients have to be transferred by road ambulance to the hospital. The helideck will make it easier and quicker to get the most severely injured or unwell patients to the hospital. It will also help with faster emergency transfers to other hospitals.

The helideck is due for completion early in 2018.



Stage 1: January 2016 to summer 2020

Stage 1 will replace the wards and departments in the Barry Building, which took its first patients twenty years before Florence Nightingale began nursing. Two hundred beds will move from it and the Jubilee Building, which opened in 1887, to the Stage 1 Building. There will be five times as much space per bed, with 65% of them in single, en-suite rooms and the rest in single sex, four bed bays. The new building will accommodate an expanded Neurosciences Centre and provide facilities to support the hospital's role as the region's Major Trauma Centre.

The lower floors will focus on outpatient and support services. Level 5 of Stage 1 will connect directly with the Emergency Department. This will allow easy transfer between key parts of the Emergency Department and emergency focused services in the Stage 1 Building.

The upper floors will house wards and rehabilitation services, including the joint Stroke and Acute Brain Injury service, Elderly Care Wards, General Medicine Wards and expanded Critical Care facilities. The topmost floor is set aside for teaching and meeting facilities.

Stage 1 will house the new main entrance which will have a spacious reception area and retail outlets. Level 6 of the building will also offer large public spaces including a café, The Sanctuary multi-faith space, the Patient Advice and Liaison Service and a link to the Stage 2 Building's roof gardens. The building has been designed to make the maximum use of natural light and open spaces.

The Stage 1 Building will be eleven storeys high and house the majority of the services to benefit from the redevelopment. It will have more than ten times the floor space of the buildings it will replace.

Stage 1

Stage 1 includes the hospital's new main entrance



Stage 1 seen from the east



Stage 2: January 2020 to summer 2023

Stage 2 will house the new and expanded Sussex Cancer Centre. This will include more specialist inpatient beds, more spaces for chemotherapy and more linear accelerators for radiotherapy. It will accommodate the cancer inpatient, treatment and outpatient facilities in a single building. Having these services under one roof will greatly improve patient experience. It will no longer be necessary to take patients outside when they are transferred between inpatient areas and treatment facilities.

The new Cancer Centre is designed, as is the rest of the redevelopment, to meet current and future demands for treatment in the best possible environment. The expansion of the Cancer Centre will significantly increase the number of patients who can be treated and accommodated at the hospital. This will reduce the need for patients to travel elsewhere for their cancer treatment.

The Stage 2 building will offer additional facilities for research and training. This will enhance the Trust's reputation for high quality research and teaching, and build on its popularity as a place to train for students.

The building will have its own entrance on Eastern Road, an ambulance drop off and collection point at the rear and direct access to the new underground car park.

There will be accessible roof gardens on top of the building. These will include a dedicated and private rehabilitation area for cancer patients. The roof gardens will be directly accessible by lift and stairs from the Stage 2 Building.

Stage 2

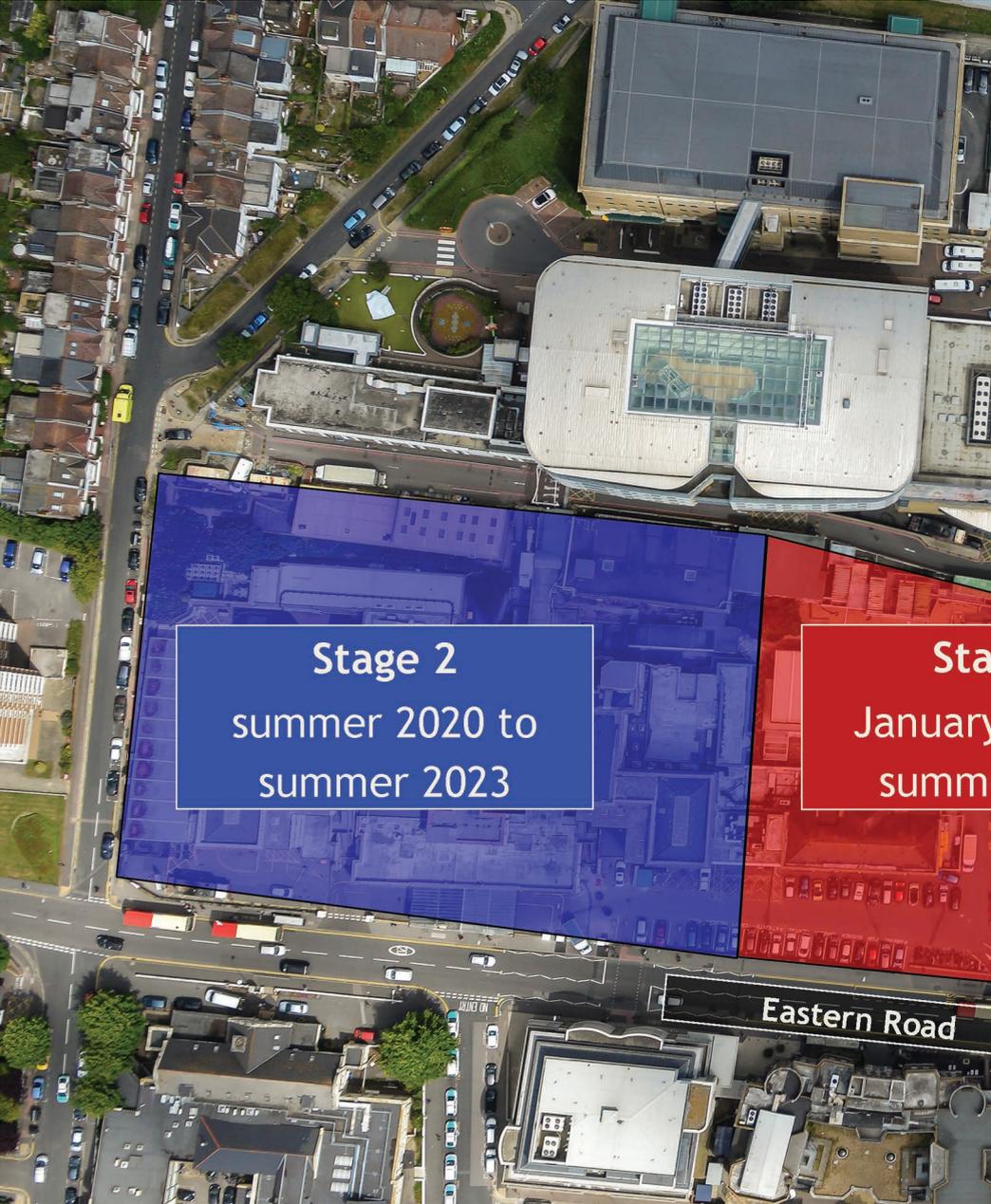
The front of Stage 2



The courtyard in the centre of Stage 2



How the hospital site will change





Helideck
Jan 2016
to
spring 2018

Stage 1
/ 2016 to
summer 2020

Stage 3
summer
2023 to
summer
2024

Frequently asked questions

Q Why not build the hospital somewhere else, like Falmer?

A That was never an option. A lot of money has been invested into the hospital over the last twenty years. This includes building the Millennium Wing, the Renal Centre and the £48 million Children's Hospital, that opened in 2007. To move the hospital would require that all these facilities be re-built on the new site. That would be an indefensible waste of tax payers money. The scope of the redevelopment was always to improve the front half of the hospital site and replace the oldest buildings.

Q What about car parking?

A There will be a dedicated, patient and visitor underground car park below the two new buildings. The new buildings and the car park will be directly linked by lifts and stairs. The new car park will offer 390 car parking spaces.

Q Will it make it easier to find places in the hospital?

A Yes. From the spacious new main entrance on Eastern Road it will be possible to reach all the hospital's buildings without having to go outside. There will be a simple route from the front to the back of the hospital. An entirely new system of signs will make it much easier to navigate the hospital's new, simplified layout.

Q Is A&E included in the redevelopment?

A A&E will stay in its current location because it is ideally placed, halfway back on the east side of the hospital. It will have direct access to both the redevelopment's new Stage 1 Building and the existing facilities on the back half of the hospital site.

Q **Is the redevelopment being paid for through a private finance initiative (PFI)?**

A No, all the funding is coming from the public, through the Treasury.

Q **How much disturbance will the redevelopment cause?**

A It is not possible to construct buildings of this size without significant foundations. That means a lot of excavation and piling work. The piles will be screwed into the ground rather than driven, which will reduce the level of noise and vibration. There are already noise and vibration monitors around the site that run 24 hours a day. Any disturbance will be managed so as to minimise its impact on patients, the public and staff. There is a clear understanding with our lead contractors, Laing O'Rourke, that patient care is the primary concern during the redevelopment.

Q **What are the standard construction hours for the redevelopment?**

A The working hours are from 7am to 7pm each weekday and Saturday mornings between 7am and 1pm. Full construction activities will start at 8am and stop at 6pm (12pm on Saturday). Work outside these hours will only happen by exception and with a specific, stated reason.

Q **Are any of the hospital's buildings listed?**

A No. There are only two listed features in the redevelopment, the interior of the Chapel and the gate pillars on either side of Bristol Gate, but no listed buildings. The interior of the Chapel will be included in the south east corner of the Stage 1 Building. The gate pillars will be repaired and rebuilt slightly further apart. This will allow for the widening of Bristol Gate where it meets Eastern Road, which is being done to improve traffic flow around the hospital.

Construction traffic routes

What routes will the construction traffic follow?

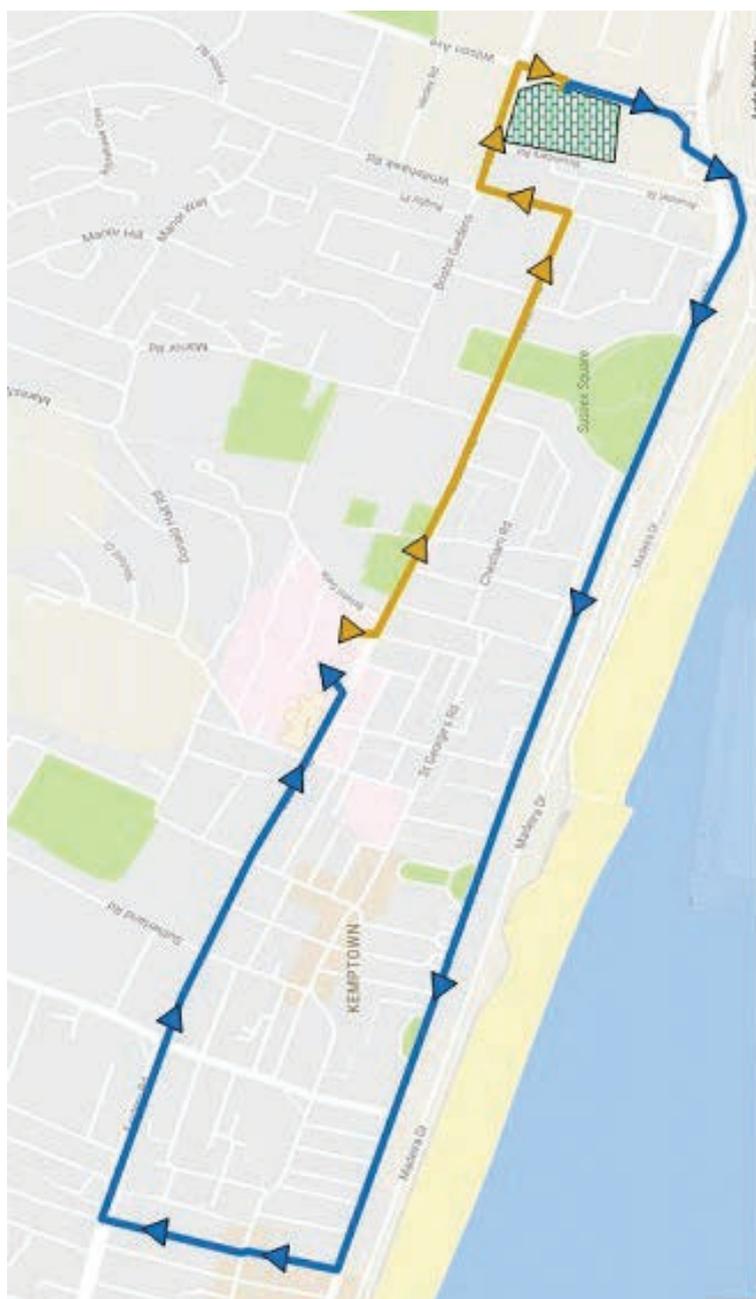
 There is a Coordination Centre for the redevelopment just outside Brighton Marina. This will hold delivery vehicles until there is space for them on site. It has room for up to 30 lorries and is the off-site parking location for contractors as well.

To reach the Coordination Centre construction traffic will come from the A27, through Woodingdean and along Wilson Avenue. It will follow the same route to return to the A27.

The route from the Coordination Centre to the hospital site and back takes account of road capacity and vehicle flows. It will stop construction traffic having to turn right onto or off of the hospital site, as this would cause congestion on Eastern Road. The route is shown on the next page.

There will be space for four delivery lorries on the front of the hospital site during the construction of the Stage 1 Building. At its two busiest points, in mid-2017 and mid-2019, the construction of Stage 1 will require approximately 80 vehicles to deliver to site each day. This will increase the total vehicle movements on Eastern Road by just under 1% throughout the day.

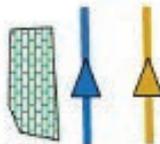
Brighton and Hove City Council are fully involved with all the decisions taken about construction traffic.



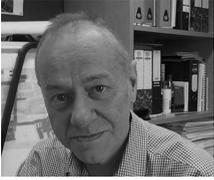
The Coordination Centre

Route from the Coordination Centre to the hospital

Route from the hospital to the Coordination Centre



Meet the Hospital's 3Ts Team



Duane Passman

Director of 3Ts



Gary Spiers

Main Scheme Project Manager



Gary Beacham

Clinical Planning Manager



Eoin O'Flynn

Change Consultant



Jacqueline Logan

Change Consultant



Abigail Pride

Change Consultant



Dena Vadgama

Commercial Business Partner,
Procurement & Infrastructure

Meet the Hospital's 3Ts Team



Anna Barnes

Associate Director of Governance



Nick Groves

Associate Director of Service
Modernisation & Workforce Transformation Lead



Mark Frake

3Ts Project Accountant



Hazel Belfield-Smith

Senior Information Analyst



Matthew Coleman

Information Analyst



Richard Beard

Head of Engagement and Communication



Phil Rolf

3Ts Programme M.E. Engineer

Meet the Laing O'Rourke Team

A few faces you may meet from Laing O'Rourke, the lead contractor for the redevelopment...



Jonathan Abbot

Project Director



Noel Stockdale

Construction Leader



Mark Jones

Senior Construction Manager



Polly Hall

Project Manager, Helideck



Tim Sydenham

Construction Manager



Mike Parry

Project Lead

Images of the redevelopment

The new main reception area



A single, en-suite patient room



Images of the redevelopment

One of the new Critical Care areas



The roof garden on Stage 2



What happens next?

The year ahead (October 2016-2017)

The clinical services in the build area for Stage 1 will move to their temporary locations in new, modular buildings. They offer a far better environment than is available in the old buildings.

The whole area required for the Stage 1 Building will be handed over to Laing O'Rourke. It will then be a construction site under their control.

An entrance and exit for construction vehicles will be set up at the front of the Stage 1 build area.

Work to deconstruct the existing buildings on the Stage 1 site will be completed. The work to remove the buildings is being done both by hand and by the use of carefully controlled machinery. This allows the dust levels to be kept to the absolute minimum.

Once the deconstruction of the buildings is finished work will start on the excavation and foundations for the Stage 1 Building. This will include excavation for the new, underground car park.

The construction of the helideck will be well underway. The helideck is scheduled for completion early in 2018.

The helideck will be the most visible structure under construction, until work on the frame for the 11 storey Stage 1 Building starts in the middle of 2018.



For further information



Email: hospital.redevelopment@bsuh.nhs.uk



Call: 01273 523375



Web: www.bsuh.nhs.uk/3ts



Facebook: Search for “RSCH redevelopment”



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