

SCOTTISH HOSPITALS INQUIRY

**Bundle of document for Oral hearings
commencing from 13 May 2025 in relation
to the Queen Elizabeth University Hospital
and the Royal Hospital for Children,
Glasgow**

Bundle 41 – Monthly Progress Reports

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New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield Construction (UK Ltd)

Monthly Progress Report No 1

29th March 2010



Brookfield

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1 Executive Summary

Works

STAGE 1 : LABORATORY FACILITY

Surplus spoil heaps have been removed from site.

Japanese Knotweed has been successfully removed from the site area to a bunded area near the helipad where it will remain until further instruction received from the Board.

Reduced level excavations are complete and Pile mat installation to the west area of the building completed for successful commencement of Stent Piling operations Monday 15th March 2010

Basement excavation works are progressing well with pile mat installed sufficiently to commence sheet piling operations.

Excavated material is being segregated and removed from site to appropriate waste transfer facility where practical.

Preparation works to divert water main obstructing the work completed for diversion works on Sat 13th March 2010. Completion of basement excavations and pile mat for sheet piling.

Air traffic Authorisation in place for commencement of piling and craneage operations from Monday 15th March 2010

Sheet piling operations commenced Monday 15th March 2010 to the basement area with further rig due on site Thursday 18th March to commence works to stair core 4

Stent Piling commenced with site set up Monday 25th March 2010 and break ground with pile probes occurred to establish Geology and any requirement for polymer stabilisation to the pile bores

Concrete piling commenced Wednesday 16th March and continue with 2 Piling rigs for the duration of the works

Forthcoming Works:

Tower crane bases are due to commence from the beginning of April with target tower crane installation from the end of April 2010

Target completion for the first area of piling complete for the commencement of pile cap work to tunnels is 16th April 2010.

DESIGN**STATUTORY APPROVALS****Planning Consent:**

The LPA has now signed off on four conditions with submissions having been made on a further six. Work is progressing to continue momentum and relationship built up with LPA and it is good to report that their response to date has been expedient. Further discussions to try to extend working hours needs to take place as this has been initially rebuffed by the environmental health via the LPA.

Building Control:

A presentation on the entire LABS scheme was made to BCO on 8th March 2010, at which was well received with the Authority agreed verbally that the building would be assessed on the basis of office designation. Minor issues, for example with elongated travel distances need to be resolved.

Stage 1 application on piling has been approved with stage 2 submission for sub and super structure together with underground drains being imminent. The timing of this has been subject to value engineering to assist with D to E changes.

Stage 3 (architectural) and stage 4 M&E is being prepared

STAGE 2: Adult and Children's Hospital Design to FBC**ADULT AND CHILDREN'S HOSPITALS:****Technical Design Group (TDG):**

The User Group meetings are progressing well and are on programme with feedback as appropriate to TDG and MPG,

Technical design issues are being monitored with agreement being directed towards tracking schedules and key individual responsibilities

Equipment Selection Group (ESG):

Meetings have now commenced.

Issues were noted regarding the equipment list on the LABS as this does not accord to ADB and is not intrinsically link to the drawings. This to be further investigated as it has the potential to cause difficulty on design co-ordination, equipment ordering and completion checking.

The early involvement of the Radiation Protection adviser has been agreed and they will be included in the meetings going forward.

Medical Planning Group (MPG):

The consultants have reviewed the SoA and ADB database revealing in excess of 1300 room types and inconsistent use of ADB codes. Work is being done to rationalise the number of room to under 500 types

An initial batch of RDS (area requirements) has been produced (ward and support locations) following using group meetings on 1:200's and this has been confirmed as an acceptable start point by the board, with batches of rooms now being available to use on the 1:50 design development.

Programming needs to be urgently reviewed as it has been raised that July is to be avoided for User Group meetings because of school holidays.

Design and Healthy Environment Strategy Group (DHESG):

The client has agreed two main themes for art strategy

- orientation and waymarking
- healing environment

It was established that most art opportunities would use the art allocations to supplement other construction elements to maximize and integrate art impact

Future meeting will focus on wider landscape and design issues that related to therapeutic design / wayfinding as well as the master plan

The group is aware that that there is no cost allowance for art strategy within the stage 2 works.

STATUTORY APPROVALS

Planning Consent:

Meetings with the LPA continue with late April being identified for the submission of conditions pursuant to the finalised master plan. The LPA have noted that they are aware of the timetable and as such will take whatever information is available at that time to committee for approval.

Efforts are being made to seek to discharge as many issues as possible (with other conditions being identified as 'relevant to detail of the masterplan') so that we strive to reach a position whereby subsequent planning conditions can be dealt with under officer delegated powers. The LPA officers agreed to this approached but considered it was likely that a second committee meeting would be necessary. If so this would need to take place in August 2010.

LPA objections to general materiality and form of the children's hospital continue to be challenging however work to overcome these concerns continues, For example render on the LABS have been agreed, which is encouraging for the main building showing a degree of flexibility is now being adopted by the Authority.

Good progress on drainage, landscaping and transport issues is being maintained

Building Control:

Monthly meetings with the BCO commence at the end of March, with an initial meeting having also been undertaken with the fire service.

Agreement on the final BCO fee has yet to be finalised.

COMMERCIAL:

- Assessments/Payments progressing in line with agreed dates. Assessment No 3 due for issue 3rd April.
- EWN's being managed and PMI's/CE's being issued where appropriate.
- Stage 1 and Stage 2 cashflows to be reviewed in line with revised budget allocations.

LABS STAGE D TO E : Update

Architectural, Structural and Civils measures progressing well.
Mechanical and Electrical measures progressing well. (Target is for meeting 1st April 2010)

LABS STAGE D TO E : Value Engineering

Architectural, Structural and Civil measures and estimated saving identified.
Mechanical and Electrical measures progressing well.

SUBCONTRACTORS: On site**Dunne Building & Civil Engineering:**

The price and scope definitions have continued to be reconciled and a final document for agreement is being checked for inclusion in the subcontract.

Dunnes have submitted proposed target and share scheme for the Laboratories Target Cost and this is awaiting internal agreement before responding. All other contractual terms are agreed.

Stent (BBGE) Stage 1 Piling Package:

Balfour Beatty Ground Engineering (Stent) appointed, ATL approved and documents being finalised issued for issue signature.

PRELIMINARY PACKAGES:**Hoarding and Fencing:**

Darfen appointed.

Site Accommodation:

Waco progressing to programme but have requested a meeting re NEC terms. ATL will follow immediately on agreement

Office IT Infrastructure:

Proposal for Subletting will be made by 26th March following appraisal of offers

Security:

Tender returns have been received from 3 contractors and interviews will be carried out w/c 22/3/10 for decision by 6/4/10. There have been no incidents to date although day security is now requiring improvement at gate locations.

Tree Removal:

Land Engineering appointed

Temporary Electrics:

A like for like detailed tender report has been completed. ATL issued in favour of Wingate.

Community Engagement (summary)

- Partnership Agreement signed
- Reporting document structure agreed
- Website nearing completion/ due to go live Easter 2010.

Brief Highlights so far:

- 8% New Entrant recruitment (all local south west residents and previously unemployed) 1 Direct and 2 Indirect
- 17% of people working on site have been new jobs generated as a result of this investment
- 3% success rate of up-skilling existing workforce against target
- 2 community events aimed at local businesses and awareness raising in local Secondary school
- Case study provided for new entrant

2 Health Safety & Environment

- Health, Safety and Environment

BCL (Paul Bidecant) has assisted with method statement reviews and approvals as well as overall review of documentation and site set up. Dunne's have demonstrated a good attitude to site safety and environment and compliance with procedures.

Several Construction Planning Conditions have been purified including arbocultural impact assessment, Knotweed remediation and ground contamination investigation.

Health Surveillance has not yet been implemented, Duradiamond to be mobilised for mid May when the first aid room becomes available.

- Man Hours

2550 man hours have been worked without incident and no entries in any accident registers.

3 Programme and Progress

Programme Report

Reporting period to 14th March 2010 week 12 of contract.

The following programmes are included in this report with static drop line mark up.

Stage 1 Laboratory Contract Construction Programme

Stage 2 Detailed Design to Full Business Case

Stage 1 Laboratory Contract Construction Programme

The laboratory project is on programme. Piling started 15th March - one week ahead of planned start.

Design and Procurement –

Stage D to E design issues are progressing with Stage E design which and BCL are seeking ways to mitigate any potential impact this may have on the programme with the Client. The Cladding subcontractor Structural UK (SUK) design and manufacturing programme was reviewed given the Stage D to E/Stage E VE options. SUK are assessing what can be done to mitigate this potential impact to their D&M programme to maintain original start on site dates. Instruction issued under PMI's 10 and 11 to ease potential impact.

Stage 2 Detailed Design to Full Business Case

1:200 user groups are keeping to programme. The ordering of the groups has changed but still keeping within time frame. The Inpatient wards have effectively been signed off after Round 2. Round 3 meeting for this department is expected to be used to start the 1:50 process on 20th April.

1:50 sign off process has started with first two batches of agreeing room data sheets and standard rooms with the Board. Meetings are being held with the Board regularly to assist them through this process.

Surveys and Tests are ongoing with site investigations being carried out for main hospital site.

Group 1 Equipment is being reviewed and updated as the Room Data Sheets are agreed with the Board.

4 Design Development

Master Plan

- Adults and Children
- Labs

Building Control

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Other Group Reports:**Technical Design Group****Design Healthy Environment Strategy Group**

The Group has now met 3 times, once formally with Ginko.

- Role and working relationship with Ginko agreed
- Additional need to engage with wider Design team agreed – meetings scheduled for wider agenda

Progress to Date:

- Outline framework of Arts and Wellbeing strategy agreed and content under development
- Recruitment of Artist capacity for research and development stage to progress 2 themes of work: Therapeutic Environment and Way finding underway
- Engagement themes for R&D stage agreed- workshops planned for early summer
- Meeting with Scottish Arts Council planned

Issues to flag to project team:

- Potential to influence Lab development recognised as limited but minimum Arts/ Interior design/engagement work required for mortuary / viewing facility. Additional external funding to be explored.

Medical Planning Group

Equipment Selection Group

NEW SOUTH GLASGOW HOSPITALS & LABORATORIES EQUIPMENT GROUP: 1st March 2010 ACTION NOTE

Present:

Robert Stewart (RS)
Peter Moir (PM)
Frances Wrath (FW)

Karen Connelly (KC)
David Hall (DH)

David Bower (DB)
Mike Frain (MF)

Darren Smith (DS)
Manny Ajuwon (MA)

Apologies:

Chris Lovejoy (CL)

Steve Pardy (SP)

Hugh McDerment (HMc)

Item No	Item	Discussion/Information	Action	Action by Whom
1.	Introductions	<p>DH to chair the initial meeting(s).</p> <p>RS is the Group Lead and will formulate/approve the Group Output Report for submission to the Project Management Group.</p> <p>A Laboratories Group Equipment representative will be invited to attend all future meetings</p>		<p>DH</p> <p>RS</p> <p>PM</p>
2.	Objectives	<p>Objective 1: to have one single common equipment list for each element (Laboratories and Hospitals) based upon ADB.</p>	<p>Laboratories: Brookfield to investigate whether or not the current format of detailed briefing sheets prepared by BMJ Architects can be converted into ADB. Alternatively, option to input data into an Excel spreadsheet to be considered.</p>	<p>DS</p>

NHS GG&C and BROOKFIELD

		<p>Objective 2: Early Assessment of Legacy Equipment</p> <p>Objective 3: Achieve consensus on Groupings</p> <p>Objective 4: Early identification of long lead items</p>	<p>Hospitals: All parties to progress on basis of utilising ADB. (Note: a meeting is to be held on Tuesday 2nd March to develop the RDS process)</p> <p>Brookfield to provide example of spreadsheet format for the management of Legacy Equipment which they have used on previous projects. The Board (RS) will “own” the issue of identifying equipment to transfer in.</p> <p>Early production of draft Equipment lists to be permit review of group allocations</p> <p>Key items to be identified on construction programme to inform procurement teams</p>	<p>All</p> <p>MF</p> <p>DS</p> <p>DB</p>
Item No	Item	Discussion/Information	Action	Action by Whom
3.	Labs	<p>Programme completion date is March 2012.</p> <p>Much of the equipment is to be provided via serviced contract.</p> <p>Potential for significant transfer of equipment</p> <p>Preference of all parties is to utilise ADB, however as noted above, Brookfield are to review the practicality of converting the existing data into ADB.</p>	To be identified by Laboratories Equipment Group	<p>PM</p> <p>DS</p>

NHS GG&C and BROOKFIELD

		Concern noted by RS re risk of human error if conversion is manual. NHS GG&C Procurement Team will provide support to Brookfield on equipment selection where required.	Brookfield to consider this risk as part of review	DS RS
4.	Adult Acute & Children's Hospitals	Programme Completion date is January 2015, however there is an elongated commissioning period leading up to this date and much of the equipment will be required well in advance. RDS process to be developed in separate meeting ADB derived Equipment list to be generated from RDS process Generic Specifications to be developed	Incorporate equipment into programmes To define RDS process Early issue of draft equipment list	DB FW DS All
5.	AOB	Specialist Equipment requirements to be addressed	Separate, project specific codes (user defined) will be developed during the 1:50 process	All
6.	Date and Time of Next Meeting Wednesday 7 th April at 2pm in the Project Offices, St Andrews House, Hillington.			

IT Group

NEW SOUTH GLASGOW HOSPITALS & LABORATORIES

IT GROUP : 1st March 2010

ACTION NOTE

Present:

David Hall (DH)
 Hugh McDermott (HMc)
 Alisdair Finlayson (AF)

Karen Connelly (KC)
 Marion Stewart (MS)

Mark Greig (MG)
 Peter Mackie (PM)

Mike Frain (MF)
 Tony Duddy (TD)

Apologies:

Ed McIntyre (EMc)

Alan Seabourne (AS)
 Steve Pardy (SP)

Chris Lovejoy (CL)

Frances Wrath (FW)

Item No	Item	Discussion/Information	Action	Action by Whom
1.	Introductions	<p>DH to chair the initial meeting(s).</p> <p>AS is the Group Lead and will formulate/approve the Group Output Report for submission to the Project Management Group.</p> <p>A Laboratories Group IT representative will be invited to attend all future meetings</p>	<p>DH</p> <p>AS</p> <p>PM</p>	<p>-</p> <p>-</p>
2.	Objectives	<p>Objective 1: To confirm that the infrastructure to be provided by the project is compatible with the anticipated hardware required to deliver services.</p> <p>Objective 2: To define the requirements to meet the aspirations for co-locating Board-wide IT requirements within the new Hospitals.</p>	<p>NHS GG&C IT to review the requirements for IT infrastructure as set out in the Employer's Requirements and to confirm that the space and cabling specified is appropriate for the hospitals and laboratories anticipated requirements</p> <p>NHS GG&C IT to review requirements for hospital and city wide in the context of spatial requirements currently proposed, including medical records and telephony.</p>	<p>MG/PM</p> <p>MS/AF</p>

NHS GG&C and BROOKFIELD

		Objective 3: To confirm remits for the project	AS to confirm scope of remit within project	AS
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Item No	Item	Discussion/Information	Action	Action by Whom
3.	Labs	Laboratories IT Group representative to attend future meetings Labs have no server space, only comms cabinets.	Arrange attendance by nominated representative Numbers of cabinets to be confirmed	PM MG
4.	Adult Acute & Children's Hospitals	Employer's Requirements stipulated the numbers of cabinets (2 x 26) rather than scheduling an area. Two locations are currently proposed, one in Adult and one in Children's. Telephony is via structured cabling + 10% copper for resilience. GEMs may also have a copper requirement Area is scheduled for Telecoms and Medical Records Additional IT scope was discussed. Revised scope to omit the requirement for a separate BMS network. The second back-bone is not required. Implications of single bedrooms were discussed. Printer and equipment locations to be identified asap	Review of Medical Records and Telecoms requirements to be undertaken MS/AF to revert with revised scope for hospital. Any further scope requirement, beyond hospitals, to be separately identified. Revise scope Options for IT to be considered, eg trolley based pc, hand-held or patient screens. Issues relating to IT staff working in single bedrooms to be assessed. MG to attend user groups, particularly specialist groups e.g. Imaging.	MG MS/AF MG/PM MG MG

NHS GG&C and BROOKFIELD

5.	AOB	Costs for site accommodation IT options to be reviewed and discussed with Alan Seabourne	Costs to be collated.	HMc/MG
6.	Date and Time of Next Meeting Wednesday 7 th April at 3:30pm in the Project Offices, St Andrews House, Hillington.			

5 Construction and Logistics

Site Issues, interface with operations site and community

Weekly interface meetings continue to be held between BCL and Board FM staff (chaired and minuted by Hugh McDerment and Shiona Frew) also attending are representatives from other contractors on the Campus namely ROK and Luddons although we will soon suggest that we have no interface with these contractors.

On Saturday morning 6 March whilst excavating the Labs basement 360 excavator struck a 100mm water main causing a major leak. Water ran to ground without damage until turned off by FM staff member on site. Repair was completed on Sunday and water turned back on by the Board mid day. At no time was the Hospital really inconvenienced by the water being turned off Saturday and Sunday morning due to the location being supplied. However, it was critical that the supply was re-established by Monday morning and this was achieved.

No blame was apportioned to BCL as no details of the presence of this main were shown on drawings issued to BCL or on drawings held by the Board. The Boards FM staff assisted in isolation and Hugh McDerment appreciated the lengths that BCL went to complete the repair.

We have restricted our operations to within the site boundary.

Trees were crowned, felled and cut along the Haul Road and this work carried out on a Saturday and Sunday at the Boards request due to noise levels. Successfully completed. Construction of a fire escape path adjacent to the haul road has been constructed as part of dialogue with Boards Fire Officer to enable haul road construction.

AK has been liaising with Gordon Robertson (Board Communications) with arrangements for the Sod Cutting Ceremony on 16 March 2010, subsequently took place satisfactorily.

Generally Roads have been kept clean, no complaints received and relationships between individuals of BCL and NSGH continue to strengthen as they get to know each other.

Dialogue continues with the Board and Strathclyde Police concerning selection of Security Contract and the Police have FOC installed a CCTV camera linked to the local station. Regular nightly patrols are made by the police to site.

Mark McAlister is arranging a meeting with local representatives at which BCL will do an introduction and a brief presentation, more a meet and greet and answer any concerns they have about the construction operations and potential nuisance.

Enabling Works Progress

The existing car park and waste transfer stations have been vacated and services to these decommissioned (assisted by BCL).

Hoardings commenced on Friday 12 March 2010 for 7 weeks, replacing poor existing fencing and Heras fencing erected as interim measures. Temporary car park has been constructed, with pedestrian routes defined and tarmaced in places. Haul roads have been formed, wheel wash in position and entrance haul road at Hardgate Road Tarred.

Site Staff co-locate with Dunne Staff in the 5+5 cabins and sufficient welfare facilities are in operation.

Phase 1 Offices (39no.) are due for delivery on 6th April 2010 and fit out due for completion by 4th May 2010. Foundations to these are under construction.

These will be powered by Generator until mains power is available.

- **Forthcoming Works**

W/C 22/3/10 WSP commenced trial pits and bore holes to supplement existing geotechnical information for the Adult & Children's Block, the Energy Centre and Roadways. Several of these investigations are outside the hoarding line within the Hospital Campus. All method statements, risk assessments and procedures have been agreed with the Board.

A similar exercise is to be carried out by WSP for existing Drainage surveys.

The Govan Road Haul Road will be widened and upgraded now that trees have been removed.

- **Security**

Tender returns have been received from 3 contractors and interviews will be carried out w/c 22/3/10 for decision by 6/4/10. There have been no incidents to date although day security is now requiring improvement at gate locations.

Land and Property

To be updated at Monthly meeting

6 Laboratory Project

Surplus spoil heaps have been removed from site.
Japanese Knotweed has been successfully removed from the site area to a bonded area near the helipad where it will remain until further instruction received from the Board.

Reduced level excavations are complete and Pile mat installation to the west area of the building is complete in readiness for commencement of Stent Piling operations from Monday 15th March 2010.

Basement excavation works are progressing well with pile mat installed sufficiently to commence sheet piling operations.

Excavated material is been segregated and removed from site to appropriate waste transfer facility where practical. Soil conditions are generally aligned with expectations from geotechnical reports
Preparation works to divert water main obstructing the work is complete for diversion to take place on Sat 13th March 2010. This will permit the completion of basement excavations and pile mat for sheet piling.

Air traffic Authorisation is in place for the commencement of piling and craneage operations from Monday 15th March 2010

Works:

Sheet piling operations are to commenced Monday 15th March 2010 to the basement area with further rig due on site Thursday 18th March to commence works to stair core 4.

Stent Piling commenced with site set up Monday 25th March 2010 and are looking to break ground with pile probes from Tuesday to establish Geology and any requirement for polymer stabilisation to the pile bores.

Concrete piling should commence from Wednesday 16th March and continue with 2 Piling rigs for the duration of the works

Forthcoming Works:

Tower crane bases are due to commence from the beginning of April with target tower crane installation from the end of April 2010

Target completion for the first area of piling complete for the commencement of pile cap work to tunnels is 16th April 2010.

7 Commercial

7.1 Budget v Cost Plan – TP/MP

Adult & Children's Hospitals: User Group consultations and design development have not identified any items impacting on the Target Price.


Laboratories: Identification of Stage D to E cost impacts ongoing with end March targeted for completion. There has been 3 Nr Compensation Event Notices issued for Laboratories works (refer below), minor cost impact.

Sub-station: Updated Quotations have been received and the strategy / most suitable quotation is under review.


Contract Award Target Price	£575,111,382
Compensation Event Notices Issued – formally Closed Out	
Compensation Event Notices Issued – Estimated Value	£150,000
Current Estimated Contract Target Price	£575,261,382

7.2 Early Warning Notices

Current status of EWN's issued to date as follows:-

				
Ref No	Item	Date Raised	Status	Date Completed
BCL-EW-001	Brookfield Value Engineering Items	13 January 2010	Value impact work in progress Focus on Tunnel Arrangement – Pack received by Board 01/02/2010	10/02/2010 (PM PMI 003)
BCL-EW-002	Mobile Phone Mast Location	8 th February 2010	Work in progress to agree master plan with GCC. Board awaiting on drawing from Brookfield	
BCL-EW-003	Utilities (1MVA) Power	10 th February 2010	Meetings in progress with the Utilities Companies	
BCL-EW-004	Utilities (11kv Breaker)	10 Feb 2010	Work in progress	
BCL-EW-005	Utilities (Moving 11KV Circuit Breakers) – Hospitals	17 th February 2010	Meeting being arranged to advise Board on situation	
BCL-EW-006	Utilities (Moving	17 th February	Meeting being arranged to advise Board on situation	


	11KV Circuit Breakers) - Labs	2010		
CL-EW-07	Discovery of Foundations and Brickwork (Labs Site)	3 rd March 2010	Dunne's have removed foundations and brickwork.	
BCL-EW-008	Planning Issues (Labs Render)	4 th March 2010	Sample of finishes and alternative being provided to GCC	
BCL-EW-009	Planning Issues (Adult and Children's Render)	5 th March 2010	Sample of finishes and alternative being provided to GCC	
BCL-EW-010	Repositioning of Labs Building	8 th March 2010	Cross reference with PMI / General / 008 and PMI / General / 009	10 th March 2010 (PMI/General/009)
BCL-EW-011	Water Main within Basement Footprint	9 th March 2010	Water main being diverted 13/03/2010	
BCL-EW-012	Access Road serving the laboratories	19 th March 2010	Request for instruction to extend the access road	
BCL-EW-013	Laboratories Tunnel	29 th March 2010	Request to construct the Labs tunnel beyond the extents of the new access road	

				
Ref No	Item	Date Raised	Status	Date Completed
NHS-EW-001	Stage D to E Reconciliation	14 January 2010	Work in progress	
NHS-EW-002	Testing of Building Board Material on Site	21 January 2010	Complete - CE 001 Issued	11/03/2010
NHS-EW-003	Japanese Knotweed Survey	21 January 2010	Complete- CE 002 issued	11/03/2010
NHS-EW-004	Excavated Building Materials/Spoil	21 January 2010	Complete PMI 004 issued CE 003 issued	11/03/2010
NHS-EW-005	Live HV Cable – SGH Site	27 January 2010	Complete - disconnect live HV cable	7/02/2010
NHS-EW-	Borehole	15	Discussions ongoing	

006	water	February 2010		
NHS-EW-007	Adult Hospital Haemat-Oncology Area	12 th March 2010	Brookfield advised of change to requirements	12/03/2010


7.3 Project Managers Instructions

The following Project Manager's Instructions have been submitted as at 24/03/2010:-

				
Ref No	Item	Date Issued		Date Signed
MB/PM/General/001	Stage 1 Laboratories - Start on Site Date	27th January 2010	27th January 2010	
MB/PMI/General/002	Revision to Contract Assessment Dates	8th February 2010.	8th February 2010.	
LAB / PM / General / 003	Laboratory block - tunnel reconfiguration	10th February 2010	10th February 2010	
PMI / General / 004	Excavated Materials / Spoil	23rd February 2010	23rd February 2010	
PMI / General / 005	Laboratory Project - Future Expansion	23rd February 2010	23rd February 2010	
PMI / General / 006	Laboratory Project - Basement Floor Level	26th February 2010	26th February 2010	
PMI / General / 007	Laboratory Project - Ventilation to PM tables	26th February 2010	26th February 2010	
PMI / General / 008	Laboratory - Stage E Civil & Structural Engineering Drawings	9th March 2010	9th March 2010	
PMI / General / 009	Laboratory Project - Relocation of Footprint	10th March 2010	10th March 2010	
PMI / General / 010	Laboratory project – Architectural drawings and NBS Specification	23 rd March 2010		
PMI/ General /011	Laboratory Project – Architectural and Civils drawings Value Engineering	25 th March 2010		

7.4 Compensation Events

The following Compensation Event Notices have been submitted as at 24/03/2010:-

				
Ref No	Item	Date Issued		Date Signed
CE 001	Removal of Asbestos Building Board	10th March 2010	10th March 2010	
CE 002	Removal of Japanese Knotweed	10th March 2010	10th March 2010	

CE 003	Removal of Excess Spoil	10th March 2010	10th March 2010
--------	-------------------------	-----------------	-----------------

7.4 Monthly Payments

Assessment nr 2 was processed and issued 10th March 2010 as follows:-

Stage 1	£	976,009.00
Stage 2	£	2,031,974.00
Stage 3	£	
Stage 3A	£	
PSCP Work Done to Date	£	3,007,983.00
Deduct retention free amount	£	0.00
Sub total	£	3,007,983.00
	£	-251,998.00
Sub total	£	2,755,985.00
Deduct previous payments	£	1,347,571.00
Sub total	£	1,408,414.00
Add VAT %	17.50%	on £ 1408414
	£	246,472.45
Amount due	£	1,654,886.45

7.5 Cash Flow

The above Assessment amount was significantly below the Cash flow forecast due to original cashflows based on cost plan. The short term Cash flow to 31st March 2010 has been revisited. A comprehensive review of 2010/2011 cash flow is required as part of next submission. Cash flow updated to capture work package cost allocation and programme.

7.6 Risk Review and Management

A review of both Contractor and Board Risk Registers is to be undertaken at next Commercial Meeting 30th March 2010.

Board Risks Triggered are:-

Risk ID	Description	Occurrence
13	Unforeseen Site Conditions	Site topography changed since Topographical Survey undertaken as a result of spoil dumping
15	Diversion of unforeseen services	Water main discovered under Laboratory building footprint
17	Asbestos	Asbestos board discovered on Laboratory site
20	Japanese Knotweed	Identification and treatment of Japanese Knotweed

8 Commissioning

8.1 Nothing to report this month as Commissioning Group meetings are not planned to commence until April/May 2010.

8.2 Topics covered by this group will be;

- IT/ Telecoms
- Equipment / technical equipment / gases / Gp 1,2,3 & 4
- FM and Operational Aspects
- Communications / HR
- Estates
- Clinical Transition / Migration / Logistics / Double Run

Initial work by this group will be the development of draft equipment lists based on information being developed by the Brookfield team, this will inform work to develop more accurate equipment budgets and enable comparison against the OBC budget equipment allowance.

9 Enabling Works

- Temporary Car Parks, Waste Compound, SAS Move

9.0 Enabling and Related Site Infrastructure Works Under Board Control

9.1 Temporary Car Park

Construction work was completed on 5th February 2010, and made available for hospital use on Monday 15th February 2010. The temporary car park provides around 135 spaces with two zones for motor cycles. The temporary car park will replace the spaces lost when existing car parks close to make way for the Laboratory Block and Car Park 1 construction sites.

9.2 Relocation of Waste Compound

Work to provide temporary waste and porter's compounds within the existing hospital complex to the west of Central Medical Block are now complete; the old waste compound area was handed over to Brookfield at the beginning of March 2010.

9.3 Scottish Water Land

A draft title plan has been developed by the Board in conjunction with Brookfield and this has been passed to Scottish Water for review and comment. The road design developed by Brookfield does not require the relocation of the telecommunications mast within the Scottish Water site, and Scottish water are current discussing implications with the Orange Telecoms.

Once the plan is agreed, the Board's Property Manager will seek a valuation of the ground by the District Valuer to establish an 'off market' value for the transaction.

9.4 Scottish Ambulance Service

Design work to prepare a planning application to adapt the Leverndale Pharmacy to an Ambulance Station is underway, and it is planned to submit the application in early April 2010.

In parallel with this, work is underway to conclude heads of terms agreement between NHS GGC and SAS in respect of the transaction to;

- Lease space to SAS at Leverndale Hospital for an ambulance station.
- Sell the Management Block at Johnstone Hospital to SAS for Special Operations Team.
- Buy vacated SAS facility at Hardgate Road for NSGH project.

Discussion is underway with Mental Health colleagues at Leverndale Hospital to review options to relocate the Estates compound within the existing site.

This work is being taken forward to enable the SAS to vacate their Hardgate Road site by the end of 2010.

9.5 Helicopter and Construction Works Interface

A management plan has been developed by the Project Team in conjunction with the Facilities team at SGH to manage the arrival and departure of aircraft in respect of tower cranes and also the correct storage of materials and loose waste in vicinity of the landing area and flight path. This is currently being circulated for final comments to all interested parties including helicopter operators.

10 Other Matters

- Car Parks, Education Centre, Ronald Macdonald House

10 Other Matters

10.1 Car Park 1

Enabling works contract underway to divert existing services off the site and general site preparation. Associated ground remediation works to remove an area of contaminated ground below the former boiler house are now complete.

The contract for the construction of the car park is due to be let shortly with a proposed commencement date of 19th April 2010 with a works duration of 46 weeks. The Board will review options for alternative car park arrangements between Stage 3 site establishment and completion of Car Park 1 in mid March 2011. This will be raised as an early warning in due course.

11 Community Engagement

Weekly meetings continue to occur with key Partners to ensure implementation of the Community Engagement Strategy.

The Partnership Agreement sets out in high level the collaborative approach that is taken to drive the strategy for the benefit of the Community.

The form of monitoring has been agreed between the Partners, (Copy attached to this report in Appendix 3)

BCL are currently testing a website that allows individuals, Small/Medium Enterprises and Social Enterprises to make contact and record their details. The target is to go live with the website by Easter 2010.

BCL have attended some local events to (Orkney Street Enterprise official opening ceremony, Glasgow South West Business Club) to create initial awareness and connections with the local community and businesses.

BCL are due to present at a Scottish Procurement Conference organised by Glasgow City Council on 21st April.

Early successes include new employment appointments on site and BCL office. (See report attached in appendix 3)

Appendix 1

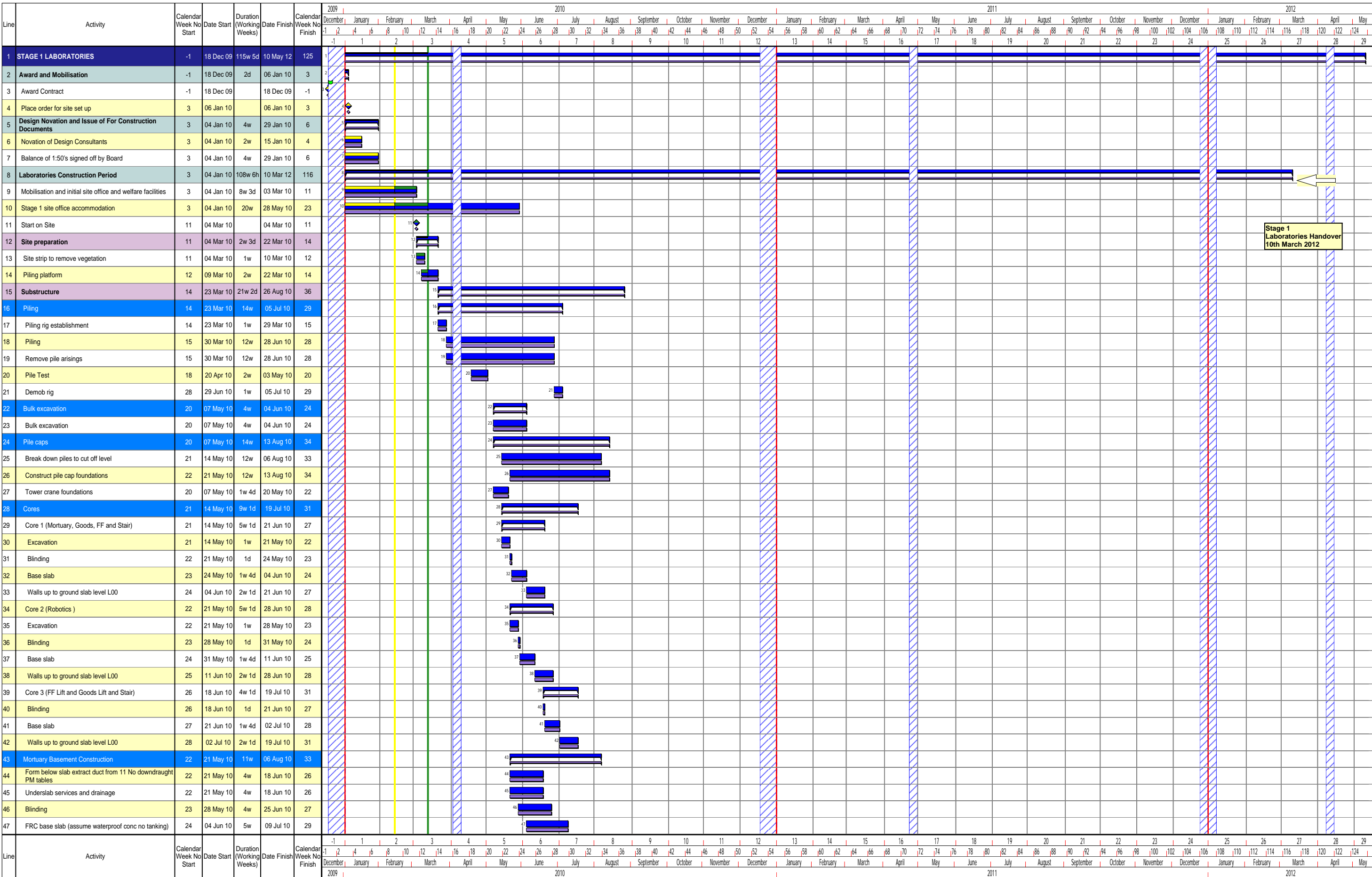
Marked up Programmes

New South Glasgow Hospitals Project

Stage 1 Laboratory Construction Programme

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Page 33
Brookfield



Date of Issue: 19/03/2010

Drawn By: DAB

Print Date: 19/03/2010

Page 1 of 3

Comments: Monthly NEC3 Updated prog (Progress to week 12 + contract baseline

Programme No.: BCL-GS1-WKC-0001

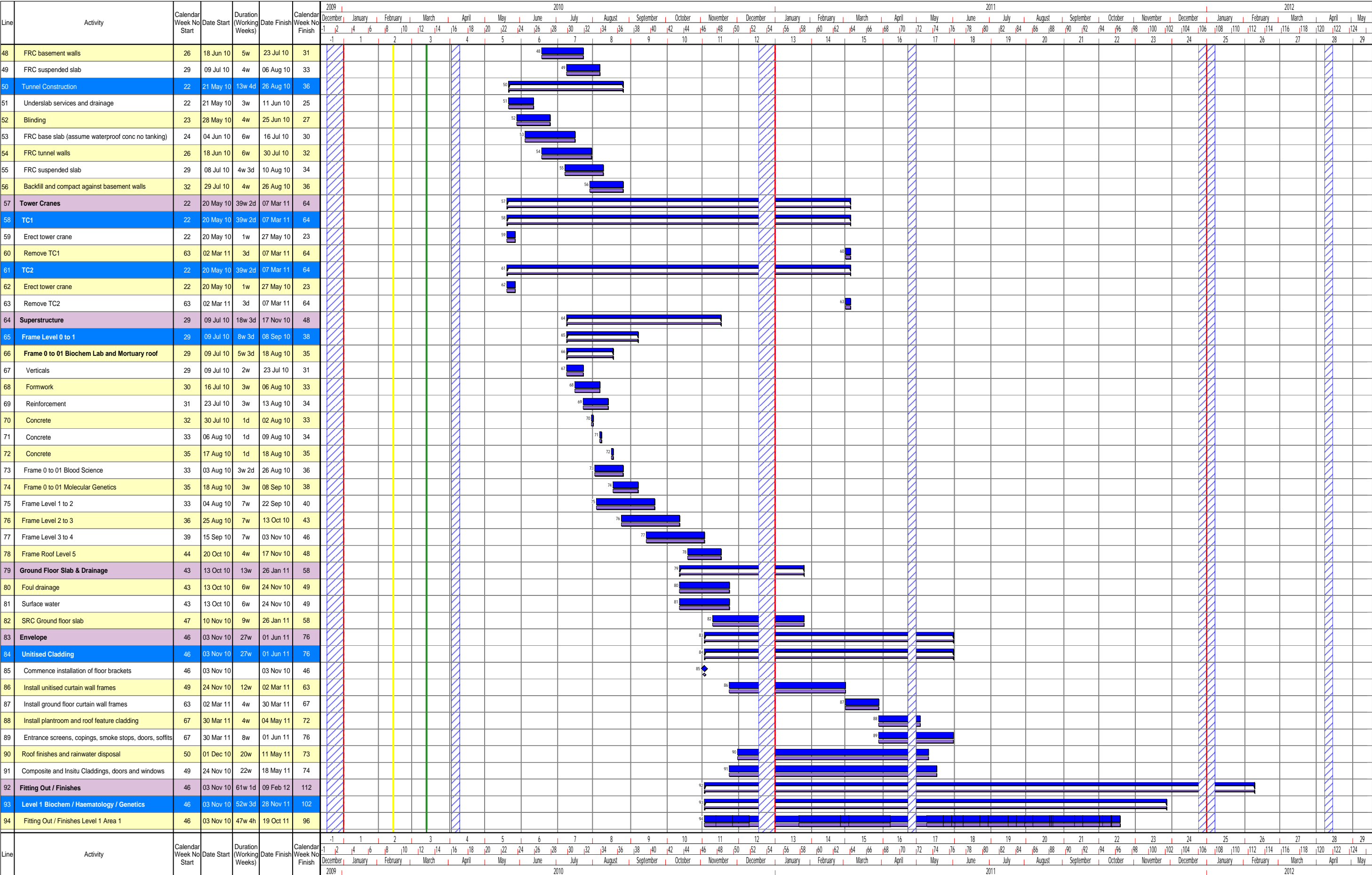
Revision:

Revision Date:

New South Glasgow Hospitals Project

Stage 1 Laboratory Construction Programme

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Date of Issue: 19/03/2010

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Page 2 of 3

Comments: Monthly NEC3 Updated prog (Progress to week 12 + contract baseline

Programme No.: BCL-GS1-WKC-0001

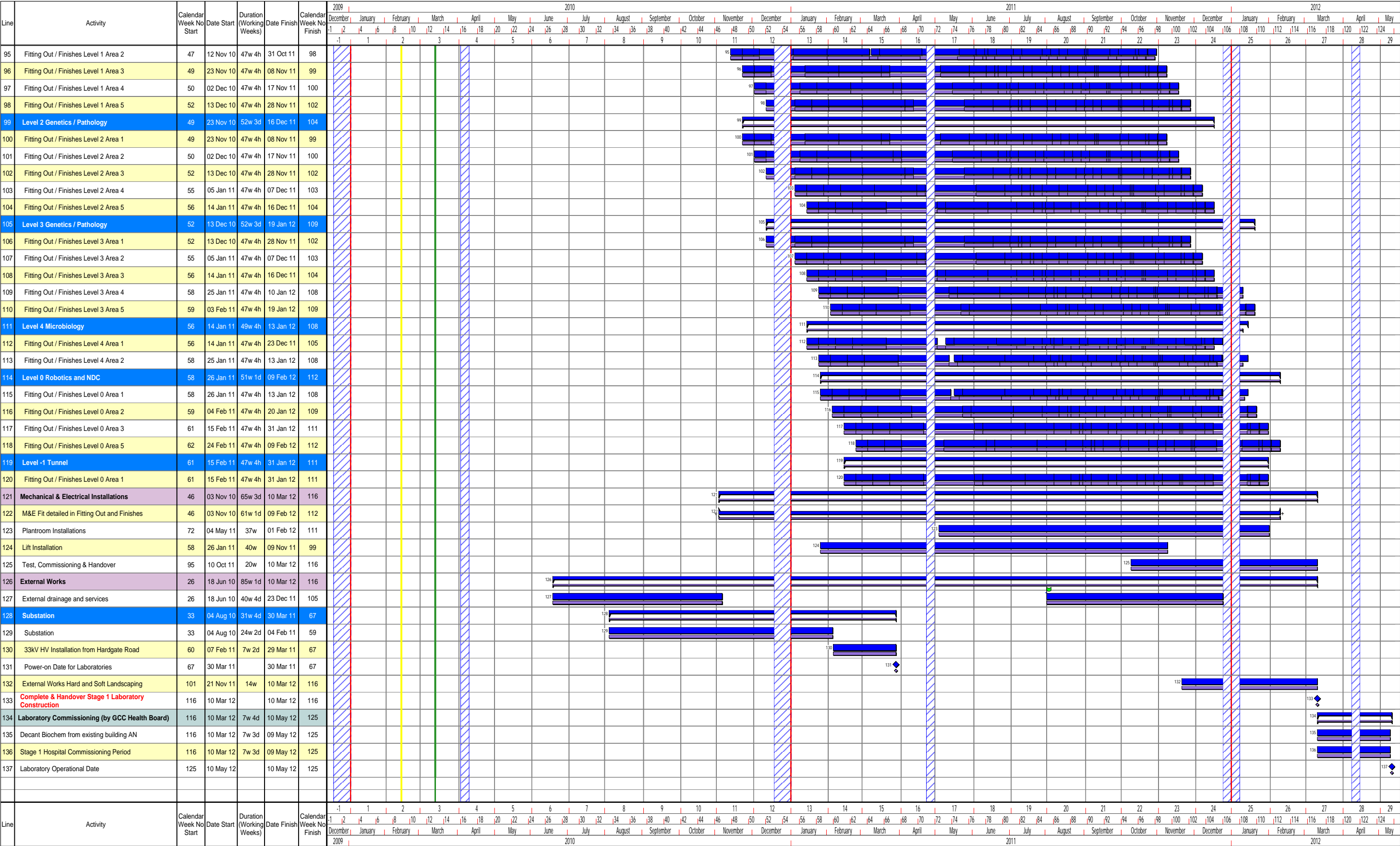
Revision:

Revision Date:

New South Glasgow Hospitals Project

Stage 1 Laboratory Construction Programme

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Progress Periods
Week 8
Week 12
Project Report Date

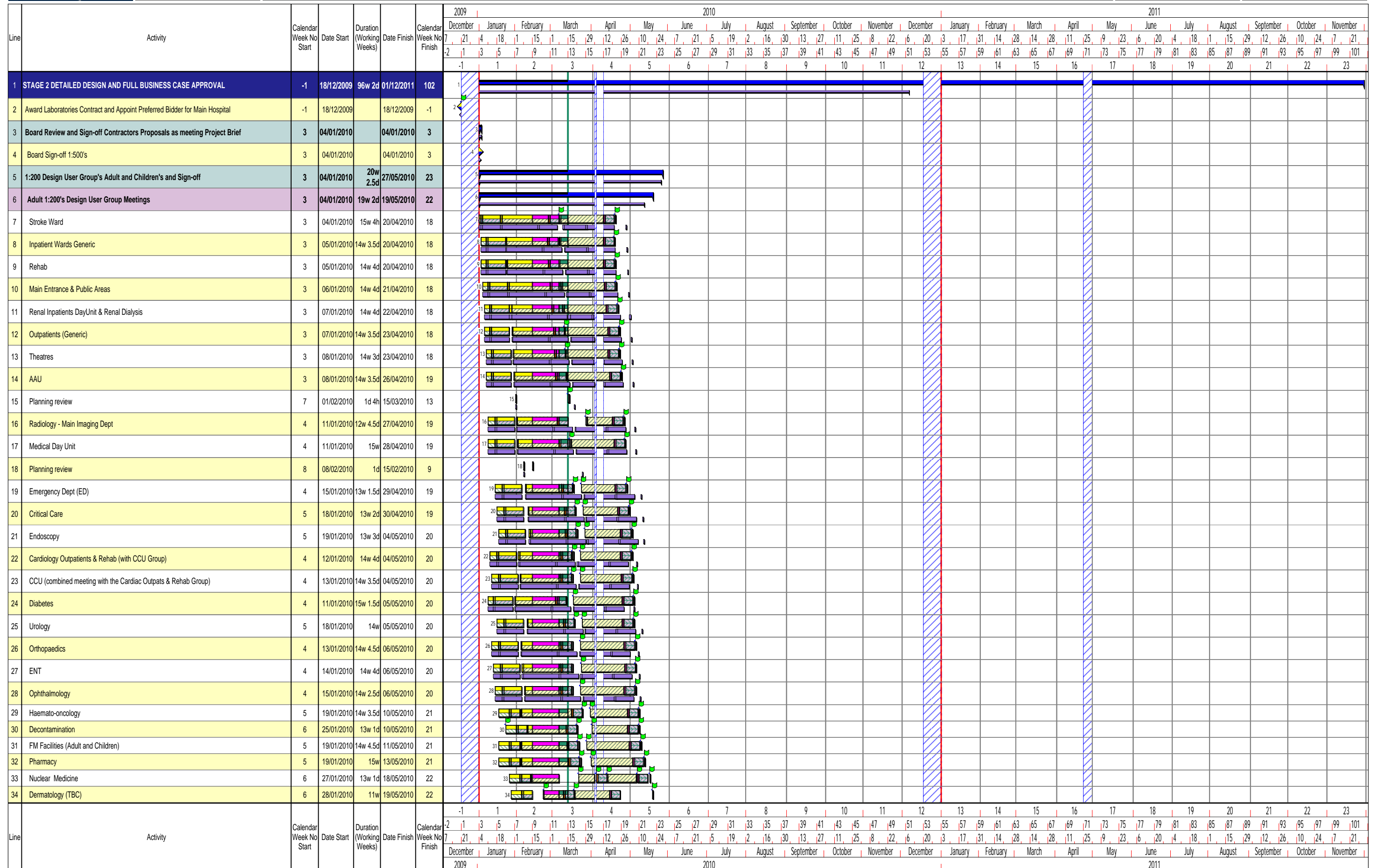
Baselines
Contract Baseline 18-12-09

Date of Issue: 19/03/2010
Print Date: 19/03/2010

Drawn By: DAB
Page 3 of 3

Comments: Monthly NEC3 Updated prog (Progress to week 12 + contract baseline)

Programme No.: BCL-GS1-WKC-0001
Revision:
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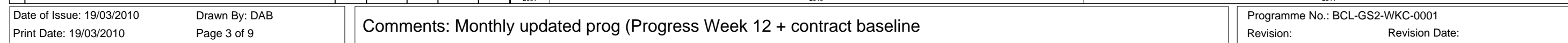
Comments: Monthly updated prog (Progress Week 12 + contract baseline

Programme No.: BCL-GS2-WKC-0001

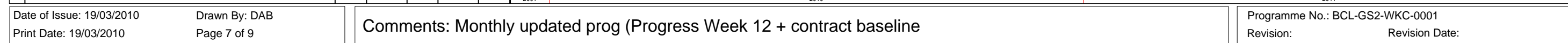
Revision:

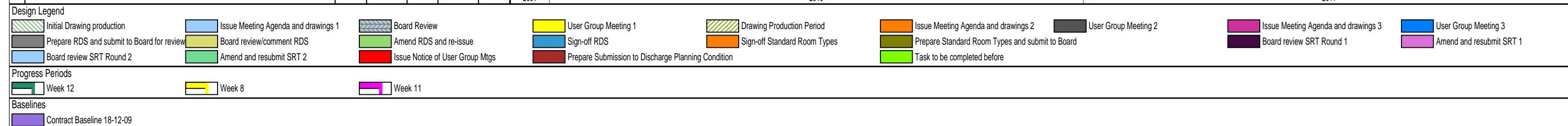
Revision Date:

Date of Issue: 19/03/2010 Print Date: 19/03/2010	Drawn By: DAB Page 2 of 9	Comments: Monthly updated prog (Progress Week 12 + contract baseline)	Programme No.: BCL-GS2-WKC-0001 Revision: Revision Date:
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Date of Issue: 19/03/2010 Print Date: 19/03/2010		Drawn By: DAB Page 6 of 9		Comments: Monthly updated prog (Progress Week 12 + contract baseline)		Programme No.: BCL-GS2-WKC-0001 Revision: Revision Date:	
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Programme No.: BCL-GS2-WKC-0001
Revision: Revision D

Appendix 2

- Progress Photos

Appendix 3

- Partnership Agreement
- Training and Recruitment Report
- Draft Monitoring report for SME's/SE's

New South Glasgow Hospitals Project Partnership Agreement

Introduction

Having successfully been selected as the Contractor to design and build the New South Glasgow Hospitals Project, Brookfield wish to implement their strategy to deliver the Community Benefits proposal set out in its bid submission.

The key areas identified in the bid are;

- Targeted recruitment and training
- Small/Medium Enterprises (SME's) supplier development
- Social Enterprises (SE's) development

Brookfield Construction (UK) Ltd will establish a construction programme partnership (hereby referred to as The Partnership) to deliver their Community Benefits proposals as set out in its bid submission. The prime purpose of the Partnership is to:

- Ensure partners jointly take ownership and responsibility for their respective contributions to the agreed aims; and
- Demonstrate commitment from members to support the delivery of the partnerships agreed aims through their organisations mainstream activities;

Membership

The Partnership includes Brookfield Construction (UK) Ltd, NHS Greater Glasgow and Clyde, Glasgow South West Regeneration Agency, Glasgow City Councils Supplier Development Programme (SDP) and Community Enterprise in Scotland.

Brookfield Construction (UK) Ltd will work in Partnership with Glasgow South West Regeneration, Glasgow City Council (SME's) and Community Enterprise in Scotland (CEiS) (Social Enterprises) to implement Brookfield Construction (UK) Ltd's commitment to maximise community benefits. Partners will be accountable to the partnership for the following objectives:

- NHS Greater Glasgow and Clyde will monitor progress against targets contained within Brookfields bid submission to maximise community benefits.
- Brookfield Construction (UK) Ltd will through its activities and supply chain partners are accountable to NHS Greater Glasgow and Clyde to deliver the community benefit targets contained within their bid submission.
- Maximising the training and employment opportunities for local people, this will be headed up by Glasgow South West Regeneration Agency (Lead Partner).
- Maximising business opportunities for Small and Medium enterprises. This will be headed up by Glasgow City Council who will be reporting directly to the Glasgow South West Regeneration Agency.
- Maximising business opportunities for Social Enterprises. This will be headed up by Community Enterprises in Scotland (CEiS) who will be reporting directly to the Glasgow South West Regeneration Agency.

In furthering the Partnerships objectives, partners agree to:

- Report on progress against the work plans and report back to the partnership at regular intervals as agreed.
- Positively and proactively promote and support the key work of the Partnership.
- Update the Partnership on any publicity initiatives that they plan to undertake to promote the work of the Partnership.
- Ensure that the nature of the Partnership between them is made clear when communicating externally.
- Update the partnership about how their work plans are progressing and any other issues which may affect the work of the Partnership.
- Share information with the Partnership about any discussions with external agencies regarding the work of the Partnership.

Approach

Brookfield Construction (UK) Ltd and partners will further the Partnerships aims by negotiating Community Benefits linked to their planned investment in Glasgow and Scotland. Community Benefit within the context of this Agreement is taken to include:

- Employment and training opportunities for target group clients;
- Opportunities for Social Enterprises (SE);
- Subcontract and supply opportunities for local businesses, SME's;

Each partner agrees to further the Partnerships aims by committing to their individual responsibilities as follows;

Recruitment and Training

Glasgow South West Regeneration Agency through the management of Brookfield Construction (UK) Ltd will:

- Devise a Local Labour Action Plan and establish requirements with Sub-Contractor/s to recruit and source supplies locally where these exist.
- Establish an operational team to deliver services including: vacancy promotion, skills assessment and matching, general and vocational training and business development.
- Establish a "Recruitment & Training Centre" in close proximity to the New South Glasgow Hospitals Project.
- Share relevant data and management information to ensure collaborative working.
- Identify and source funding from various agencies, development programmes, charities to ensure that aims and objectives are achieved.
- Engage effectively with the community and other stakeholders on the work of the Partnership.
- Recruit relevant partners to enable effective delivery of these aims.

SME's

Glasgow City Councils Supplier Development in partnership with Brookfield Construction (UK) Ltd will support and develop the capacity of Small Medium Enterprises by undertaking:

- Activities to identify Small Medium Enterprises (SME's) and assess their capacity.
- Actions to assist Small Medium Enterprises (SME's) to obtain contracts
- Actions to ensure that the sub-contractors make work packages available to Small Medium Enterprises (SME's)
- Measurement of the social and economic impact of the engagement with the Small Medium Enterprises (SME's)
- Support for the Small Medium Enterprises (SME's) to assist them to work in Partnership.

SE's

Community Enterprise in Scotland under the "Ready for Business" programme and in partnership with Brookfield Construction (UK) Ltd will support and develop the capacity of Social Enterprises by undertaking:

- Activities to identify Social Enterprises and assess their capacity.
- Actions to assist Social Enterprises to obtain contracts
- Actions to ensure that the sub-contractors make work packages available to Social Enterprises
- Measurement of the social and economic impact of the engagement with the Social Enterprises
- Support for the Social Enterprises to assist them to work in Partnership.

Partners

The Partnership includes Brookfield Construction (UK) Ltd, NHS Greater Glasgow and Clyde, Glasgow South West Regeneration Agency, Glasgow City Councils Supplier Development Programme (SDP) and Community Enterprise in Scotland. The signatories to the Partnering Agreement do so in the belief that this will contribute to the following shared goals.

- Building a more effective base of contractors and subcontractors within the City to create a higher quality of construction services in the city over time.
- Helping develop a more extensive pool of construction skills that will allow major public and private sector clients in the City to deliver their construction works cost effectively and to a high quality.
- Giving opportunities to school leavers and jobless adults to learn construction skills that will be of long term value to them in their working career.
- Contributing to the regeneration of the City's most deprived communities through appropriate allocation of time and resources.

Principles

The Partners above have signed a Declaration to this Agreement confirming they will:

- Share responsibility for achieving its aims and objectives.
- Collaborate with partners, sharing information and resources to deliver the Partnerships aims and objectives.
- Facilitate and manage the procedures required to achieve the Partnership objectives

Declaration

The undersigned agree on behalf of their individual organisation and Brookfield Construction (UK) Ltd to adhere to the principles of the Partnership Agreement:

_____	Chair, Brookfield Construction (UK) Ltd
_____	NHS Greater Glasgow and Clyde
_____	Glasgow South West Regeneration Agency
_____	Glasgow City Council
_____	CEIS

		Brookfield								
		Target			Period			Variance		
Target Number	Accord Indicator	Direct	Indirect	Total	Direct	Indirect	Total	Variance	% Variance	
1	No of employees on site during period	72	2433	2505	13	23	36	-2469	8%	
	No of New Entrants	7	243	250	1	2	3	-247	-99%	
	Length of Unemployment				1	1	2			
	0 - 6 mths u/e						0			
	7 - 12 mths u/e						0			
	13 - 24 mths u/e						0			
	3 yrs + u/e						0			
	Leaving Education / Training						0			
	Benefit Type									
	JSA 0 - 6 mths				1	2	3			
	JSA 6 mths+						0			
	Incapacity Benefit						0			
	Employment Supported Allowance						0			
	Income Support						0			
	Other						0			
	Employed						0			
	Equal Opportunities Information									
	No of males					1	1			
	No of females				1	1	2			
	White (Scottish/English/British)				1	1	2			
	Asian						0			
	Black ME					1	1			
	Other						0			
	Postcode Indicators									
	No of NE South West				1	2	3			
	No of NE Greater Glasgow & Clyde						0			
	No of NE Outwith						0			
	% of New Entrants from SW area						100%			
2	No of Added Value Job Starts				0	0	0		0%	
	Equal Opportunities Information									
	No of males									
	No of females									
	White (Scottish/English/British)									
	Asian									
	Black ME									
	Other									
	Postcode Indicators									
	No of NE South West									
	No of NE Greater Glasgow & Clyde									
	No of NE Outwith									
3	No of Apprentices recruited	0	88	88	0	0	0	-88	-100%	
	Length of Unemployment									
	0 - 6 mths u/e									
	7 - 12 mths u/e									
	13 - 24 mths u/e									
	3 yrs + u/e									
	Leaving Education / Training									
	Benefit Type									
	JSA 0 - 6 mths									
	JSA 6 mths+									
	Incapacity Benefit									
	Employment Supported Allowance									
	Income Support									
	Other									
	Employed									
	Equal Opportunities Information									
	No of males									
	No of females									
	White (Scottish/English/British)									
	Asian									
	Black ME									
	Other									
	Postcode Indicators									
	No of NE South West									
	No of NE Greater Glasgow & Clyde									
	No of NE Outwith									
	Total Number of job starts						9			
3	No of Work Experience / Placements	2	182	184	0	0	0	-184	-100%	
	Equal Opportunities Information									
	No of males									
	No of females									
	White (Scottish/English/British)									
	Asian									
	Black ME									
	Other									
	Postcode Indicators									
	No of NE South West									
	No of NE Greater Glasgow & Clyde									
	No of NE Outwith									
4	No of vacancies in period	7	243	250	0	4	4	-246	-98%	
	No of vacancies notified to partnership				8	4	12			
	No of vacancies filled by New Entrants				1	2	3			
	% vacancies filled as New Entrants								25%	
	No of vacancies filled as added value				6	0	6			
	% vacancies filled as added value								150%	
5	No of NE gaining qualifications	3	247	250	0	0	0	-250	-100%	
	No of NE achieving Core skills						0			
	No of NE achieving Level 3 + (SVQ 2)						0			
	No of NE achieving Level 4 + (SVQ 3+)						0			
6	No of existing workers upskilled as result of partnership	10	492	502	0	0	0	-489	-97%	
	No of employees achieving Core skills						0			
	No of employees achieving Level 3 + (SVQ 2)						0			
	No of employees achieving Level 4 + (SVQ 3+)						0			
7	No of existing workers upskilled as part of Employer CPD				0	13	13			
	No of employees achieving Core skills						13			
	No of employees achieving Level 3 + (SVQ 2)						0			
	No of employees achieving Level 4 + (SVQ 3+)						0			
8	Retention of New Entrants									
	13 weeks				0	0	0		#####	
	26 weeks				0	0	0		#####	
9	Retention of New Starts									
	13 weeks				0	0	0		#####	
	26 weeks				0	0	0		#####	
10	No of Community Events			0	1	1	2	2	#####	
	No of individuals attending events				40	170	210			

Targeted Recruitment and Training Requirements

Contractor Quarterly Report

1. Report Details

Company Name:	Brookfield Construction Uk Ltd		Contract:	New South Glasgow Hospital Project
Reporting Period:	From:	Jan-10	To:	22nd March 2010
Report completed by:	Name:	Rosh Campbell		
	Contact:	[REDACTED]		
	Email:	[REDACTED]		

2. Summary of contractual commitments

No of Employees on Site	Direct	Indirect	F/T	P/T	Total
Totals	13	23	22	1	36

New Entrant Trainees

Occupational Area	Direct	Indirect	F/T	P/T	Total	% of workforce
Admin	1		1		1	
GCO - gateman		1	1		1	
Cleaner		1		1	1	
					0	
					0	
					0	
					0	
					0	
					0	
					0	
					0	
Total	1	2	2	1	3	8%

Apprenticeships as New Entrants

Occupational Area	Direct	Indirect	F/T	P/T	Total	% of New Entrants
					0	
					0	
					0	
					0	
					0	
					0	
					0	
					0	
					0	
					0	
					0	
Total	0	0	0	0	0	0%

Other Job Outcomes (Not New Entrants)

Occupational Area	Direct	Indirect	F/T	P/T	Total	% of workforce
ME Design Manager	1		1		1	
Senior H&S Manager	1				1	
Quantity Surveyor	1				1	
Senior Planner	1				1	
Senior QS	1				1	
Design Manager	1				1	
					0	
					0	
					0	
					0	
					0	
Total	6	0	1	0	6	17%

Work Experience / Training Places

Occupational Area	Direct	Indirect	F/T	P/T	Total
					0
					0
					0
					0
					0
					0
					0
Total	0	0	0	0	0

2.3.3 Achieving the NET Target

Please state whether the New Entrant Trainee target, detailed in your Community Benefit Method Statement is on track to be achieved

Not Achieved: ☐ On Track: ☒ Achieved: ☐ Exceeded: ☐

2.3.4 Detailed explanation

Please provide background information on any factors which may have affected performance and the figures provided in the Tables in section 2

The community benefit commitment is at very early stages with in depth discussions taking place on the Recruitment & Training element of the project. Brookfield is driving full commitment to the partnership with sub contractors to advertise all opportunities through the established Community Engagement Team. A "Partnership Agreement" will be in place from 22nd March 2010 with all delivery partners signing up to aims and objectives - these commitments will be transferred onto sub-contractors agreements. At present GSWRA have met with Mercury Engineering, Dunne Civil and Engineering and Astins. Since the contract commenced significant progress has been established towards meeting the overall requirements.

A seperate report for Dunne Civil and Engineering is available for the period.

Summary

3. Summary of Progress - Employment (for the period)

3.1 Vacancies notified - for this contract, how many vacancies have you or your subcontractors:

- 3.1.1 Had in the reporting period?
 3.1.2 Notified to name agency in the reporting period?
 3.1.3 Filled via named agency in the reporting period?

Vacancies	Direct	Indirect	Total
3.1.1	Total No. of Vacancies in period generated by contract.	4	4
3.1.2	Total No. of Vacancies reported to CB Team	8	12
3.1.3	No. of Contract Vacancies filled by New Entrants	1	3
3.1.3 a	No. of vacancies outstanding	1	3
3.1.3 b	% of Notified Contract Vacancies filled by New Entrants		25%
3.1.4	No. of Vacancies filled as added value	6	6
3.1.4 a	% of Vacancies notified Not New Entrant eligible		150%
3.1.5	Total Vacancies filled	7	9
3.1.6	% of notified vacancies filled		75%

Additional details on table 3.1

3.1.1 No. of Vacancies generated by Contractor

At present there have been a number of professional vacancies notified to GSWRA due to the nature of the skills involved these jobs have been filled by clients that do not fit the NEW ENTRANT definition. However the project has generated 17% of new jobs as a result of investment.

3.1.3 No of vacancies outstanding

There is one outstanding vacancy for Dunne 1 x Gateman. This position is suspended and NE applicant on hold awaiting release of new area before we can confirm start.

3.1.4 No. of Contract Vacancies filled by another source - additional information.**Sub Contractor Vacancy**

Main Contractor x 1

Main Contractor x 1

Any other Information

4. Summary of Progress - Qualifications (for the period)

4.1 Qualifications - how many have been achieved in the reporting period through CPD activity and partnership working

4.1.1 How many qualifications have been achieved by New Entrants

4.1.2 How many qualifications have been achieved by existing staff supported by partnership working

4.1.3 How many qualifications have been achieved by existing staff supported through Employer CPD

4.1.1 Qualifications achieved by New Entrants this period.

Occupation	Core or General Skills	SVQ 2	SVQ3 & above	Direct	Indirect	Total	Employer	Comments
	0	0	0	0	0	0		

4.1.2 Qualifications achieved by existing staff as result of partnership

Occupation	Core or General Skills	SVQ 2	SVQ3 & above	Direct	Indirect	Total	Employer	Comments
	0	0	0	0	0	0		

4.1.3 Qualifications achieved by existing staff as result of employer CPD

Occupation	Core or General Skills	SVQ 2	SVQ3 & above	Direct	Indirect	Total	Employer	Comments
Skilled Trades	13				13		Dunne	Tool Box & H&S sessions
	13	0	0	0	13	13		

5. Summary of Progress - Retention of employment for New Entrants (for the period)**5.1 Turnover of New Entrant Trainees**

To help assess turnover of NETs and New Starts in each quarter, please complete the following:-

Number of New Entrant leavers	0
Number of New Start Leavers	0

Occupation	Direct	Indirect	Total	Reason for leaving	0 - 4 wks	5 - 13 wks	14-26 wks	End Date	Details of support provided by LRA
	0	0	0		0	0	0		

5.3 Retention of New Entrants and New Starts

Indicator	Direct	Indirect	Total
No of NE due to retain at 13wks	0	0	0
No of NE achieving 13 wk retention	0	0	0
% of NE retaining at 13 wks			#DIV/0!
No of NE due to retain at 26 wks	0	0	0
No of NE achieving 26 wk retention	0		0
% of NE retaining at 26 wks			#DIV/0!
No of NS due to retain at 13 wks	0	0	0
No of NS achieving 13 wk retention	0	0	0
% of NS retaining at 13 wks			#DIV/0!
No of NS due to retain at 26wks	0	0	0
No of NS achieving 26 wk retention	0	0	0
% of NS retaining at 26 wks			#DIV/0!

5.4 Community Events - please use the space below to provide comments on the community events arranged and attended during this period.

Indicator	Direct	Indirect	Total
Number of Events held	1	1	2

Number of individuals engaged with	40	170	210
------------------------------------	----	-----	-----

Purpose of event

Brookfield - attendance at the Glasgow South Business Club Monthly lunch to make a presentation on the approach to Community Benefit and how the local business community can tie in with activities and opportunities.

GSWRA school awareness session - Hillpark Secondary - Iain Russell presented an overview on construction to young people in groups of 10/20 pupils. We managed to talk to 170 pupils in just under 2 hours. Handouts were given to pupils that were interested in construction and we allowed time for questions and answers.

6. Additional Information

6.1 Please use the space below to provide any additional comments or to highlight any issues you wish to raise.

6.2 Are there any particular skills areas where you are experiencing recruitment difficulties?

At present there have been a number of professional jobs required for the project. Given the highly qualified nature of these posts the clients that fall into the "NEW ENTRANT" definition do not have the skills and qualifications required for the contractor. However a very successful recruitment protocol has allowed GSWRA to advertise these opportunities and assist Brookfield in the recruitment and selection stages. As stated these opportunities have generated 17% of new jobs on the project and local economy.

6.3 Could any public sector agencies offer you any other assistance to support you in the delivery of your NET commitments?

Either those identified in the ITT Method Statement or from other sources.

GSWRA have been fully involved in all stages for direct and indirect recruitment needs.

7. New Entrant Trainee Case Study

5.1 Through its Community Benefit policy, NHS aims to maximise the jobs and training gains for target groups arising from its investment activity. Illustrative Case Studies can provide context and insight into the experiences of both New Entrant Trainees and employers and usually include input from trainees and describe how they became involved. To illustrate the positive impact of the Community Benefit policy, please provide below a New Entrant Trainee Case study, which may include a profile, photographs and feedback from an NET. *(Please obtain new entrant agreement in writing prior to submitting the case study)*

New Entrant Name:	<input type="text"/>	Age:	<input type="text"/>	Gender:	<input type="text"/>
Target Group:	<input type="text"/>	Job Title:	<input type="text"/>		
Postcode:	<input type="text"/>	Grade:	<input type="text"/>		
Start Date:	<input type="text"/>	Recruited via:	<input type="text"/>		

Employee History:
*(length of previous
unemployment etc)*

Key tasks, activities and
training:

Progress:
*(towards qualification,
training or positive
outcomes)*

Trainee comments:
(Key milestone or
achievements)

Employer comments:
(Progress, satisfaction,
future training and
employment plans)

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Targeted Recruitment and Training Requirements

Contractor Quarterly Report

1. Report Details

Company Name:	<input type="text"/>	Contract:	<input type="text"/>
Reporting Period:	From: <input type="text"/>	To:	<input type="text"/>
Report completed by:	Name: <input type="text"/>		
	Contact: <input type="text"/>		
	Email: <input type="text"/>		

2. Summary of contractual commitments

No of Employees on Site	Direct	Indirect	F/T	P/T	Total
Totals	10	12			22

New Entrant Trainees

Occupational Area	Direct	Indirect	F/T	P/T	Total	% of workforce
Joiner	2	1	3		3	
Bricklayer	1	0	1		1	
Electrician	1	1	2		2	
Admin	0	1		1	1	
Apprenticeships	3	2	5		5	
					0	
					0	
					0	
					0	
					0	
Total	7	5	11	1	12	55%

Apprenticeships as New Entrants

Occupational Area	Direct	Indirect	F/T	P/T	Total	% of New Entrants
Joiner	1	1	3		2	
Bricklayer	1	0	1		1	
Electrician	1	1	2		2	
					0	
					0	
					0	
					0	
					0	
					0	
					0	
Total	3	2	6	0	5	42%

Other Job Outcomes (Not New Entrants)

Occupational Area	Direct	Indirect	F/T	P/T	Total	% of workforce
Senior H&S Mgr	1	0	1		1	
M&E Design Mgr	1	0	1		1	
Receptionist		1	1		1	
					0	
					0	
					0	
					0	
					0	
					0	
					0	
Total	2	1	3	0	3	14%

Work Experience / Training Places

Occupational Area	Direct	Indirect	F/T	P/T	Total
GCO	2	1	3		3
					0
					0
					0
					0
					0
Total	2	1	3	0	3

2.3.3 Achieving the NET Target

Please state whether the New Entrant Trainee target, detailed in your Community Benefit Method Statement is on track to be achieved

Not Achieved: ☐

On Track: ☒ Yes

Achieved: ☐

Exceeded: ☐

2.3.4 Detailed explanation

Please provide background information on any factors which may have affected performance and the figures provided in the Tables in section 2

The community benefit commitment is on track for being fully realised. Since the contract commenced significant progress has been established in meeting the overall requirements.

3. Summary of Progress - Employment (for the period)

3.1 Vacancies notified - for this contract, how many vacancies have you or your subcontractors:

3.1.1 Had in the reporting period?

3.1.2 Notified to name agency in the reporting period?

3.1.3 Filled via named agency in the reporting period?

Vacancies		Direct	Indirect	Total
3.1.1	Total No.of Vacancies in period generated by contract.	12	7	19
3.1.2	Total No. of Vacancies reported to CB Team	11	6	17
3.1.3	No. of Contract Vacancies filled by New Entrants	7	5	12
3.1.3 a	No. of vacancies outstanding	2	0	2
3.1.3 b	% of Notified Contract Vacancies filled by New Entrants			71%
3.1.4	No. of Vacancies filled as added value	2	1	3
3.1.4 a	% of Vacancies notified Not New Entrant eligible			16%
3.1.5	Total Vacancies filled	9	6	15
3.1.6	% of notified vacancies filled			88%

Additional details on table 3.1

3.1.1 No. of Vacancies generated by Contractor

3.1.3 No of vacancies outstanding

3.1.4 No. of Contract Vacancies filled by another source - additional information.

Sub Contractor Vacancy x 1

Main Contractor x 1

Main Contractor x 1

Any other Information

4. Summary of Progress - Qualifications (for the period)

4.1 Qualifications - how many have been achieved in the reporting period through CPD activity and partnership working

4.1.1 How many qualifications have been achieved by New Entrants

4.1.2 How many qualifications have been achieved by existing staff supported by partnership working

4.1.3 How many qualifications have been achieved by existing staff supported through Employer CPD

4.1.1 Qualifications achieved by New Entrants this period.

Occupation	Core or General Skills	SVQ 2	SVQ3 & above	Direct	Indirect	Total	Employer	Comments
Joiner	1			1				
Surveyor			1		1			
Electrician		1		1				
GCO		1		1				
Apprentices		5		3	2			
	1	7	1	6	3	9		

4.1.2 Qualifications achieved by existing staff as result of partnership

Occupation	Core or General Skills	SVQ 2	SVQ3 & above	Direct	Indirect	Total	Employer	Comments
Bricklayer	1			1				
GCO		5		4	1			
Admin			1	1				

Management (Professional)			1	1			
	1	5	2	7	1	8	

4.1.3 Qualifications achieved by existing staff as result of employer CPD

Occupation	Core or General Skills	SVQ 2	SVQ3 & above	Direct	Indirect	Total	Employer	Comments
Admin	1			1				
Management (Professional)	5			5				
	6	0	0	6	0	6		

5. Summary of Progress - Retention of employment for New Entrants (for the period)

5.1 Turnover of New Entrant Trainees

To help assess turnover of NETs and New Starts in each quarter, please complete the following:-

Number of New Entrant leavers	0
Number of New Start Leavers	1

Occupation	Direct	Indirect	Total	Reason for leaving	0 - 4 wks	5 - 13 wks	14-26 wks	End Date	Details of support provided by LRA
Security Guard	1				1				
	1	0	1		1	0	0		

5.3 Retention of New Entrants and New Starts

Indicator	Direct	Indirect	Total
No of NE due to retain at 13wks	15	5	20
No of NE achieving 13 wk retention	10	4	14
% of NE retaining at 13 wks			70%
No of NE due to retain at 26 wks	8	2	10
No of NE achieving 26 wk retention	4	2	6
% of NE retaining at 26 wks			60%
No of NS due to retain at 13 wks	2	2	4
No of NS achieving 13 wk retention	2	1	3
% of NS retaining at 13 wks			75%
No of NS due to retain at 26wks	1	0	1
No of NS achieving 26 wk retention	1	0	1
% of NS retaining at 26 wks			100%

5.4 Community Events - please use the space below to provide comments on the community events arranged and attended during this period.

Indicator	Direct	Indirect	Total
Number of Events held	0	0	0
Number of individuals engaged with	1	1	2

6. Additional Information

6.1 Please use the space below to provide any additional comments or to highlight any issues you wish to raise.

6.2 Are there any particular skills areas where you are experiencing recruitment difficulties?

6.3 Could any public sector agencies offer you any other assistance to support you in the delivery of your NET commitments?

Either those identified in the ITT Method Statement or from other sources.

7. New Entrant Trainee Case Study

5.1 Through its Community Benefit policy, Glasgow City Council aims to maximise the jobs and training gains for target groups arising from its investment activity. Illustrative Case Studies can provide context and insight into the experiences of both New Entrant Trainees and employers and usually include input from trainees and describe how they became involved. To illustrate the positive impact of the Community Benefit policy, please provide below a New Entrant Trainee Case study, which may include a profile, photographs and feedback from an NET. *(Please obtain new entrant agreement in writing prior to submitting the case study)*

New Entrant Name:	<input type="text"/>	Age:	<input type="text"/>	Gender:	<input type="text"/>
Target Group:	<input type="text"/>	Job Title:	<input type="text"/>		
Postcode:	<input type="text"/>	Grade:	<input type="text"/>		
Start Date:	<input type="text"/>	Recruited via:	<input type="text"/>		

Employee History:	<div></div>
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		Brookfield						
		Target			Period			Variance
Target Number	Accord Indicator	Direct	Indirect	Total	Direct	Indirect	Total	Variance
								% Variance
	SME development							
1	No of sub contracts advertised	4	5	9	1	0	1	-8
	Value of contract advertised				0	0	0	11%
2	No sub contracts not advertised				0	0	0	
	Value of NON advertised contracts				0	0	0	
	Total value of Contracts awarded this period						0	
	% Value of contracts advertised							#DIV/0!
3	No of SMEs completing Procurement Registration						0	
	No of SMEs deemed Business Ready						0	
	No of SMEs NOT Business Ready						0	
	% Value of contract awarded							
	% Value of contract awarded V's Annual Turnover							
4	No of SMEs in receipt of Advice & Guidance						0	
5	No of SMEs participated in workshops						0	
6	No of SMEs attending Meet the Buyer Events						0	
7	No of SMEs reaching "Business Readiness"						0	
	No of jobs created							
	No of jobs safeguarded							
	No of employees undertaking training							
	No of qualifications gained by employees							
	SE development							
1	No of sub contracts advertised							
	Value of contract advertised							
2	No sub contracts not advertised							
	Value of NON advertised contracts							
	Total value of Contracts awarded this period							
	% Value of contracts advertised							
3	No of SEs completing Procurement Registration							
	No of SEs deemed Business Ready							
	No of SEs NOT Business Ready							
	% Value of contract awarded							
	% Value of contract awarded V's Annual Turnover							
4	No of SEs in receipt of Advice & Guidance							
5	No of SEs participated in workshops							
6	No of SEs attending Meet the Buyer Events							
7	No of SEs reaching "Business Readiness"							
	No of jobs created							
	No of jobs safeguarded							
	No of employees undertaking training							
	No of qualifications gained by employees							

SME / SE Requirements

Contractor Quarterly Report

1. Report Details

Company Name:	Brookfiled Construction (UK) Ltd		Contract:	New South Glasgow Hospital Project
Reporting Period:	From:	Jan-10	To:	Mar-10
Report completed by:	Name:	Rosh Campbell		
	Contact:	[REDACTED]		
	Email:	[REDACTED]		

2. Summary of Progress - Advertising of Opportunities**2.1 Sub-contracts advertised**

Please confirm the details of all sub-contracts that have been advertised on and awarded through the Brookfield Busoiness Portal in relation to this contact.

Tier	Buyer advertising Package	Direct	Indirect	Award Date	Contract Name	Contractor	Direct Contract Value	Indirect Contract Value	No of SMEs deemed business ready for procurement	No of SMEs Advanced to Procurement Process	No of SMEs on Short List Suppliers	Feedback provided
1	Brookfield	1		Jan-10	Site Hoarding	Darfen Dura Fencing			6	4	4	n
2												
		1	0				0	0	6	4	4	

3. Summary of Progress - Opportunities not Advertised

3.1 Sub-contracts not advertised

Please confirm the details of all sub-contracts that have not been advertised on and awarded through the Brookfield Business Portal in relation to this contract. Ensure that the 'sign-off' columns are completed together with the rationale.

Tier	Buyer advertising Package	Direct	Indirect	Award Date	Contract Name	Contractor	Direct Contract	Indirect Contract	Sign-off Project Team	Code for reason
		0	0				0	0		

Code	Reason
1	Contractual terms signed
2	Impact on project delivery
3	Specialist Service/Sole Provider
4	Insufficient take up from Brookfield Portal
5	
6	
7	
8	
9	
10	

4. Summary of Progress - Number of Business Registrations through the Portal

4.1 Please confirm the details of all businesses that have registered through the Brookfield Business Portal in relation to this contact.

Total Number of Business Registrations	Totals
New Business Registrations	0
Existing Business Registrations	0
SME Business Ready	0
SME NOT Business Ready	0
Totals	0

New Business Registrations

Occupational/Sector Area	Business Ready	Not Business Ready	Total
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
	0	0	0

Existing Business Registrations

Occupational/Sector Area	Business Ready	Not Business Ready	Total
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
			0
	0	0	0

5. Additional Business Support and Information

5.1 Please provide information on any capacity building or additional business support you have been involved in supporting during this period

Total Number of Business Registrations	Totals
SME in receipt of Advice & Guidance	0
SME Attending workshops	0
SME Attending Events	0
Reaching Business Readiness following Intervention	0
Totals	0

Number of SME in receipt of support

Occupational/Sector Area	Advice & Guidance from SDP	Attending Workshops	Attending Events	Reaching Business Readiness	Total
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
	0	0	0	0	0

5.2 Please provide a brief report on the capacity building or additional support given directly by the contractor and partnership agencies

Brookfield have met with the Supplier Development programme and Community Enterprises in Scotland to explore what support the company could offer to small and medium enterprises. Brookfield are developing their own "Procurement Portal" to allow the advertising and application of SME/SE organisations for particular work packages. This portal will feed into SDP and CEiS existing databases to allow each partner access to "Business Ready" and "NON Business Ready" companies to then gauge the level of service required. It was agreed that Brookfield may supply individuals to attend workshops or make presentations particularly to construction types of businesses e.g tender advice, marketing, health & safety etc.

The SDP and CEiS to respond with a brief outline of specific requirements so that Brookfield may review whom within the organisation would be best placed to attend. Full processes to be established on how this element will work.

5.3 Could any other public sector agencies offer you any additional assistance to support you in the delivery of your business support commitments?

SDP and CEiS have made commitments to utilise core funding to support eligible organisations through "Meet the Buyer Events", workshops etc.

5.4 Are there any other issues you wish to highlight in relation to the delivery of this contract?

1. The definition of "business ready" is to be established to help benchmark many of the smaller SMEs/SEs

2 Brookfield have made strong commitment to the development of the Business Procurement Portal

SDP are currently re-developing their database to allow easier monitoring of SMEs engaging as a result of the NSGH project

3

6. SME / SE Case Study

6.1 Through its Community Benefit policy, the NHS aims to maximise the opportunities for both SMEs and SEs arising from its investment activity. Illustrative Case Studies can provide context and insight into the experiences of both buyers and suppliers and should include input from suppliers to describe their experience. To illustrate the positive impact of the Community Benefit policy, please provide below a SME / SE Case Study, which may include a profile, photographs and feedback from an SME / SE. (Please obtain contractor agreement in writing prior to submitting the case study)

Company Name:

Sector:

Postcode:

Contract Details:

Comencement Date:

Company History:

Development Support:
(Capacity building / training
support provided)

Supplier comments:
(Outcome of securing
contract)

Buyer comments:
(Progress, satisfaction,
future opportunities)

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New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield Construction (UK) Limited

Monthly Progress Report No []

27th April 2010



Brookfield

Contents

- 1 Executive Summary
- 2 Health Safety and Environment
- 3 Programme and Progress
- 4 Design Development
- 5 Construction and Logistics
- 6 Laboratory Project
- 7 Commercial
- 8 Commissioning
- 9 Enabling Works
- 10 Other Matters

1 Executive Summary

Health and Safety

A Project Health and Safety Presentation was given to Gerard McCulloch, Robert Thompson and Sharon Davidson of H&S Executive, by Jim Senior, Ross Ballingall, Alan Keeley, David Jordan and Ian Armstrong of Brookfield Construction (UK) Ltd on Wednesday 14th April 2010. This was received extremely well and was very successful.

The approval and sign off to erect two Tower cranes has been received; these cranes were erected between Friday the 18th April and Sunday the 20th April.

Contamination has been discovered within drains on the Linthouse burn, SEPA have stopped Castlebrae from continuing doing surveys until this contamination is removed. SEPA have insisted that BCL are to blame and should remove the waste. Alan Keeley has refused to remove the waste until this has been proven. Discussions continue.

There have only been 2 small incidents reported, with the worst incident being an operative from Darfen Hoarding, who dropped a steel gate on his foot resulting in a fractured toe.

Programme and Progress

Stage 1 Laboratories

Stage E design for architectural, structural and M&E have now been issued, which has resulted in a revised construction sequence but this has not changed the 12th March 2012 Completion date.

There has been a revised Tender Event Schedule that has given a more detailed overview on when the design and scopes are required for the packages to be procured.

Sheet piling to the mortuary has now been completed and bulk excavation has now begun.

Stage 2 Adult and Children's

Planning Meetings with Council and A&DS have been held and the Master plan was submitted on the 22nd April 2010.

Design Development

Laboratories

There has been on going discussions and meetings with Building Control regarding the warranting of stage 2 works and the Planning Department regarding the planning conditions in respect of the Lab's.

Adult and Children's

The 1:50 sign off process has started with the first four batches of room data sheets and standard rooms submitted to the Board.

Monthly meetings have been arranged with Building Control to ensure that there is continued positive progress.

As a result of excellent progress from the Team the Master Plan was submitted on the 22nd April 2010.

There is still on going discussions with the consultants on the options available for the external finishes and alternative energy initiatives for the Energy Centre.

Construction and Logistics

The main Security Company have now taken over full control of site security, the access hut and turn styles were delivered on the 20th April 2010.

There is slow progress on the hoarding and gates which has resulted in additional resources being supplied by Darfen to meet their programme dates. They are still expected to complete within programme.

Stage 2 Works

Existing drainage survey is in progress but there have been issues with SEPA regarding a back up of contaminated waste within the existing campus drainage system.

Commercial

Brookfield have issued a further 7 Early Warning Notices to the Board between the 14th March and 21st March 2010.

The application for this month is £3,286,509.00 excl VAT. This figure represents the short term Cash flow to the 31st March 2010 which has been revisited to bring this sum in line with expectations.

Other

Alan Keeley held an informal meeting with the Union rep from UCATT who confirmed that Brookfield will need to have a full time Union Convenor who will ensure Working Rule Agreement, pay rates with labour directly employed by BCL and subcontractors.

2 Health Safety & Environment

Project SHEQ Meeting

Occupational Health

New Starters in Month:

Total 1

Ian Armstrong Start date 12/4/10 H&S Manager

Non Safety Critical Medicals (paper screen)

Pre-employment Safety Critical Medicals

Safety Critical Medicals Outcomes:

Total 0

No Health Problems

Newly Identified Health Problems

Existing Health Problems

Medical Centre Treatment Attendance:

Total 0

Works Accidents

Non-Work Related Accidents

Ill-Health

Reviews

Health Promotion

Pre OHS Medicals

Health Surveillance

Performance

- Health, Safety and Environment**

Paul Bidecant has assisted with method statement reviews and approvals as well as overall review of documentation and site set up. Dunnes have demonstrated a good attitude to site safety and environment and compliance with procedures.

Health Surveillance has not yet been implemented. Duradiamond need to be mobilised for mid May when the first aid room will be available.

Hours Worked		No. of Accidents Book Entries	Riddor Reports	Near Miss Reports	Serious Injury
This Month	13870	2	1	0	0
To Date	16420	2	1	0	0

Summary of accident/incident trends is shown below.

Notes on Riddors/Serious Injury

Darfen's operative (hoarding erection) dropped Steel gate post on his foot and fractured his toe.

Key Events

- Ian Armstrong joined BCL and the Glasgow Site team on Monday 12th April 2010 as the site H&S Manager.
- A Project Health and Safety Presentation was given to Gerard McCulloch, Robert Thompson and Sharon Davidson of H&S Executive, by Jim Senior, Ross Ballingall, Alan Keeley, David Jordan and Ian Armstrong of Brookfield Construction (UK) Ltd on Wednesday 14th April 2010.

This was well received by the Inspectors who readily entered into dialogue with ourselves. (Notes to be made available on actions/points of interest).

- The production and sign off of a Helicopter Management Plan requires all party sign off before the Tower Cranes can operate.

However Brookfield Construction UK Ltd did receive approval to erect two tower cranes (TC3 and TC2); these were erected between Friday 16th and Sunday 18th April 2010.

- Noise levels on site during sheet piling works necessitated the introduction of exclusion zones and ear protection levels. This is to be taken into account when reflecting sheet piling methods for stage 3.

Generally

- Dunnes and Stents compliance with procedures, housekeeping and co-operation is good.
- Temporary welfare Facilities are still satisfactory for 60 no. of operatives on site. Canteen facilities will be in place by early May 2010.
- CUK have taken over the security and access control on 21st April 2010. Swipe access will be in place by 4th May 2010.
- Health Surveillance/First Aid accommodation will be available for Duradiamond by 11th May 2010. Arrangements need to be put into place for Duradiamond to commence on a part-time or full-time role.

Environment

- Cleanliness of roads remains very good with 2no. Wheel washers in position.
- Pumped water discharge is via a silt buster which is working well.
- Hoarding progress is slow and requires additional resources so that it can be completed by the end of April 2010.
- Recycling of materials by Dunnes is visible and pro-active by them.
- John Treacher of SEPA (Scottish Environment Protection Agency) visited site on Friday 16th April 2010. Thales Factory Facilities Management reported a problem with contamination of Linthouse Burn on their site downstream of the Hospital Campus between the Campus and

the River Clyde discharge point. Our Subcontractor Castlebrae has been cleaning out the campus drains during the survey work and SEPA visited our site as a result of this.

Mr Treacher was satisfied after a discussion and an inspection of our site that no contamination of the Burn originated from our site. However Alan Keeley met at the Thales site with their FM Manager and Hugh McDermert of the NSGH Board to inspect the Burn.

BCL are of the opinion that the 'contamination' within the Hospital system has been building up over several years and has only been dislodged as a result of Castlebrae's pressure jetting.

However SEPA has made it clear that they expect Brookfield to remove the solid pollutant on Monday morning 19th April 2010. BCL and the Board to investigate the cause of the Pollutant.

- No complaints received from the Board or neighbours, (other than SEPA).
- Working hours established is 7.30am to 17.30pm. However stent piling and WACO temp and office fit out are currently working until 19.00pm, (still within the permissible agreed finishing time).

3 Programme and Progress

3 Programme and Progress

Reporting period - to 11th April 2010 week 16 of contract.

The following programmes are included with this report with static drop line mark up. (Refer to Appendix 1 for copies of programmes)

Summary Master Programme No. BCL-GSM-CN01-0003

Stage 1 Design and Procurement Programme No. BCL-GS1-PR02-0001

Stage 1 Updated Labs Construction Programme No. BCL-GS1-WKC-0002

Stage 2 Updated Detailed Design to FBC Programme No. BCL-GS2-WKC-0002

Stage 3 and 3a remain as per contract programme and therefore are not included in this report.

Summary Master Programme

Overall Stage 1 and Stage 2 of the project are on programme.

Stage 1 Laboratory Design and Procurement Programme

A design and procurement programme is included with this month's report. The purpose of this programme is to indicate tender design information release dates to commence procurement activities. The procurement string of activities includes tender period, analysis and award, construction design information release, lead-in period and start on site. A fully integrated design programme is being developed to monitor all the design activities of design consultants and subcontractor design. It is being partially rolled out to the design team to monitor current design activities prior to release of the fully integrated programme expected to be available by end of April 2010.

The Stage D to E design issues has caused late issue of Stage E design. Stage E design for architectural, structural and M&E has now been issued. The previously reported programme

concerns regarding the Structural's cladding procurement have been mitigated and are not expected to affect the project completion date.

Stage 1 Laboratory Construction Programme

The programme has been completely revised following the issue of Stage E drawings and revised basement and tunnel layouts. These design revisions have driven a revised construction sequence from the clockwise direction of our contract programme to an anticlockwise direction as indicated on this updated programme. The project completion date remains at 10th March 2012.

The laboratory project is on programme. Piling started on 15th March - one week ahead of planned start and progressing well.

Tower cranes TC2 and TC3 were erected week 17.

Sheet piling to mortuary area complete and bulk excavation started.

Stage 2 Detailed Design to Full Business Case

1:200 user group meetings are on programme. Round 2 UGM are complete. Round 3 commenced on 20th April. All remaining user group meeting have now been scheduled to complete on 27th May 2010. The Inpatient wards have effectively been signed off after Round 2. Round 3 meeting for this department will be used to start the 1:50 process on 20th April.

1:50 sign off process has started with first four batches of room data sheets and standard rooms submitted to the Board. Meetings are being held with the Board regularly to assist them through this process. The 1:50 programme is being developed and expected to be submitted for review by the Board at the end of April.

Surveys and Tests are ongoing with site investigations being carried out for main hospital site.

Planning – Meetings with Council and A&DS have been held and the Master plan was submitted on the 22nd April 2010.

4 Design Development

LABS

Design

Reviewable design data schedules are being set up to monitor the information flow and assist with client resourcing by providing look ahead dates. Specific training on design review workflows has now been undertaken with the NHS.

C&B are producing an equipment schedule to be developed from the consultant's drawings.

Fire engineering design of the entrance void area has not been resolved by Buro Happold and this will now be taken forward by WSP.

Building Control

Meetings with building control are ongoing; with stage 2 warrant submission imminent comprising sub and super structure, fire safety, architectural layouts elevations and sections.

Authority building control are advising response time of 5 to 8 weeks

Planning Conditions.

The table below outlines the current position of the planning condition in respect of the Labs.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring or continuance	Discharged (applied for)
09/01676/DC	32	11	3	6	4 (8)

The planners remain positive towards the material use with all but minor material elements being agreed.

Adult and Children's

Design

Good progress continues with the 1:200 user groups as we move towards the 1:50 review phase. This continues in line with programme.

Co-ordination meetings are ongoing with emphasis on below ground services, setting out, and road locations.

Work is being undertaken to minimise tree removal noting TPO's and planning approval requirements, with emphasis on retaining the location of the telecommunication mast.

Review of SUDS maintenance requirements has taken place and Consultants advice and drawings with the NHS to take to address the legal issues.

Building Control

Positive dialogue is now ongoing with Building Control with the first formal meeting having now taken place. The main principles in respect of fire safety have been reviewed and Building Control response is imminent. Monthly meetings have now been scheduled.

Planning Conditions.

The table below outlines current position of planning condition in respect of the A & C. This will be populated upon submission of master plan conditions.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring or continuance	Discharged (applied for)
07/01158/DC	43	-	-	-	-

Master Plan

The master plan was submitted on the 22nd April 2010 as a result of excellent progress maintained by the team towards achieving this submission. Positive dialogue continues to be received from the Authorities and other stakeholders towards the master plan.

A&DS pre application meetings were held on the 21 April 2010.

Issues on road layout and access to the FM service areas to the west of the labs have now been resolved.

Changes to the master plan have been made to reflect NHS requirements including the removal of the pond and communal gardening project, with car park 2 and the energy centre being used to accommodate wind turbines. 3D physical models were altered in readiness for the presentation.

Brookfield Construction (UK) Ltd have achieved the target in making the application to discharge conditions in respect of the master plan before the end of April to meet the June planning committee meeting.

Initial reports are in progress regarding the helipad for review with the NHS.

Energy Centre

Co-ordination work between the consultants is on going, including reviews of options for external materials and examination of alternative energy initiatives to meet requirements

Other Group Reports:

Technical Design Group

Deliverables have been populated against appendix K and key dates are now being included in readiness for NHS review

Sample schedules have been produced to record agreed materials.

Design Healthy Environment Strategy Group

The Group has now met 3 times, once formally with Ginko.

- Role and working relationship with Ginko agreed.
- Additional need to engage with wider Design team agreed – meetings scheduled for wider agenda.

Progress to Date:

- Outline framework of Arts and Wellbeing strategy agreed and content under development.
- Recruitment of Artist capacity for research and development stage to progress 2 themes of work: Therapeutic Environment and Way finding underway.
- Engagement themes for R&D stage agreed- workshops planned for early summer.
- Meeting with Scottish Arts Council planned.

Issues to flag to project team:

- Potential to influence for Lab development recognised as limited but minimum Arts Interior design and engagement work required for mortuary / viewing facility. Additional external funding to be explored.

Medical Planning Group

- Adult & Children's

Changes to the schedule of accommodation are being recorded by the consultants and agreed with the NHS with changes produced from round 1 of the user groups being carried forward with the document being finalised at round 3.

Code book area schedules are now being produced which will identify standard rooms working towards the sign off of the R D S with the 1:50 drawings.

Project standardisation and union schedules are being issued with workshops being undertaken to review ADB codes.

Equipment Selection Group

The second meeting of the Equipment Selection Group was held on 07 April 2010 and the following key activities were identified:

- Laboratories Equipment List will be prepared without full conversion of drawings and data to ADB system. Currie & Brown will prepare a list of all equipment in Groups 1-4 derived from the 1:50 Room Layouts and Detailed Room Briefing Sheets.
- Adult & Acute Hospitals Equipment List will be derived from the current RDS and 1:50 Room Layout process. BCL will update the group on programme for the delivery of both draft and final equipment lists at the next meeting
- The fume cupboards are to be included as Group 2 and the exact quantities are to be confirmed as part of the Stage D to Stage E reconciliation.
- The Laboratories Equipment Representative will attend the next meeting on 6th May 2010.

IT Group

- The second meeting of the widened IT Group was held on 07 April 2010 and the following key activities were identified:
- Laboratories Project Team to scope any specimen tagging requirements including Wifi infrastructure.
- Single network option to be investigated including review of BMS Network requirements
- BMS installation for Laboratories to be reviewed to confirm stand alone capability prior to completion of Stage 3 works.
- Laboratories server strategy to be reviewed to confirm that no servers are to be located within the Laboratories building at any stage
- IT Teams to develop strategy for engagement with Business and Strategy Groups.
- IT Risk Registers to be incorporated into Project Risk Register
- Telecoms requirements and scope for both stage 1 and stage 3 to be reviewed

5 Construction and Logistics

Logistics/Site Establishment/Enabling Works

- Two entrance/exit gates are in operation.
- Stage 1 & 2 offices delivered (39 no.) and being fitted out for occupation on the 11th May 2010 (IT connection programmed towards this date).
- Stage 1 & 2 welfare units delivered and connections completed on the 19th April 2010.
- Catering procurement is in process and anticipated operation by the 11th May 2010 at the latest.
- Progress on the Hoarding and Gates is slow and additional resource required to complete in 2 weeks time as per programme. Decoration commenced and BCL/NHS logos were fixed week commencing 19th April 2010.
- Existing power supply to 5 + 5 cabin set up is 100A and new office and welfare facilities will run off generators as will the 2 Tower Cranes. A bigger temporary supply from Scottish Power is anticipated early June.
- Existing 25mm water supply should suffice for now but may need a storage tank that will fill at night. The possibility of sinking a bore hole well is under consideration.
- Planning of longer term logistics (to be allowed for now),and routing of temporary services is proving to be a challenge as the Master plan layout continues to change during Design Development leading up to the Master plan submission to the Planning Authorities.
- CUK took over Security from Turners on the 21st April 2010. Access control office and turnstiles arrived on 20th April 2010. CUK will be providing gate men access control and out of hours security.

Stage 2 Works

- Existing drainage survey and burns condition survey is in progress and should be complete within two weeks.
- Bore holes and trial pits both inside and outside the hoarding have been progressing and continue. (Completion anticipated week ending 19th April 2010).

6 Laboratory Project

To be updated at the Meeting

7 Commercial

7.1 Budget v Cost Plan – TP/MP

Adult & Children's Hospitals: User Group consultations and design development have not identified any items impacting on the Target Price.



Laboratories: Identification of Stage D to E cost impacts ongoing with final negotiations to be concluded. There has been 3 Nr Compensation Event Notices issued for Laboratories works (refer below), minor cost impact.

Sub-station: Updated Quotations have been received and the strategy / most suitable quotation is under review.


Contract Award Target Price	£575,111,382
Compensation Event Notices Issued – formally Closed Out	
Compensation Event Notices Issued – Estimated Value	£150,000
Current Estimated Contract Target Price	£575,261,382

7.2 Early Warning Notices

Current status of EWN's issued to date as follows:-

 				
Ref No	Item	Date Raised	Status	Date Completed
BCL-EW-001	Brookfield Value Engineering Items	13 January 2010	Value impact work in progress Focus on Tunnel Arrangement – Pack received by Board 01/02/2010	10/02/2010 (PM PMI 003)
BCL-EW-002	Mobile Phone Mast Location	8 th February 2010	Work in progress to agree master plan with GCC. Board awaiting on drawing from Brookfield	
BCL-EW-003	Utilities (1MVA) Power	10 th February 2010	Meetings in progress with the Utilities Companies	
BCL-EW-004	Utilities (11kv Breaker)	10 Feb 2010	Work in progress	
BCL-EW-005	Utilities (Moving 11KV Circuit Breakers) – Hospitals	17 th February 2010	Meeting being arranged to advise Board on situation	
BCL-EW-006	Utilities (Moving 11KV Circuit Breakers) - Labs	17 th February 2010	Meeting being arranged to advise Board on situation	
BCL-EW-007	Discovery of Foundations and Brickwork (Labs Site)	3 rd March 2010	Dunne's have removed foundations and brickwork.	
BCL-EW-008	Planning Issues (Labs Render)	4 th March 2010	Sample of finishes and alternative being provided to GCC	


BCL-EW-009	Planning Issues (Adult and Children's Render)	5 th March 2010	Sample of finishes and alternative being provided to GCC	
BCL-EW-010	Repositioning of Labs Building	8 th March 2010	Cross reference with PMI / General / 008 and PMI / General / 009	
BCL-EW-011	Water Main within Basement Footprint	9 th March 2010	Water main being diverted 13/03/2010	
BCL-EW-012	Access Road serving the laboratories	19 th March 2010	Request for instruction to extend the access road	
BCL-EW-013	Laboratories Tunnel	29 th March 2010	Request to construct the Labs tunnel beyond the extents of the new access road	
BCL-EW-014	Increase in Building Control Fees	14 th April 2010	Work in progress	
BCL-EW-015	Junctions at Govan Road	14 th April 2010	Work in progress	
BCL-EW-016	Kitchen Relocation from level 3 to Basement	14 th April 2010	Meeting organised to discuss	
BCL-EW-017	Compatibility of the existing Kitchen cart/trolleys and the Proposed AGV Robotic System	15 th April 2010	Meeting organised to discuss	
BCL-EW-018	Services Trench - drain to run besides Labs	21 st April 2010	Board awaiting costs	
BCL-EW-019	Planning application for Scottish Water Land	21 st April 2010	Latest drawing amended to show larger land take. BCL to provide reasons for increase in land-take	
BCL-EW-020	Discovery of Potential Foul waste within the Storm Drains	21 st April 2010	BCL to provide details of location, perceived direction of source of foul effluent and photographic evidence	

				
Ref No	Item	Date Raised	Status	Date Completed
NHS-EW-001	Stage D to E Reconciliation	14 January 2010	Work in progress	
NHS-EW-002	Testing of Building Board Material on Site	21 January 2010	Complete - CE 001 Issued	11/03/2010

NHS-EW-003	Japanese Knotweed Survey	21 January 2010	Complete– CE 002 issued	11/03/2010
NHS-EW-004	Excavated Building Materials/Spoil	21 January 2010	Complete PMI 004 issued CE 003 issued	11/03/2010
NHS-EW-005	Live HV Cable – SGH Site	27 January 2010	Complete - disconnect live HV cable	7/02/2010
NHS-EW-006	Borehole water	15 February 2010	Discussions ongoing	
NHS-EW-007	Adult Hospital Haemat-Oncology Area	12 th March 2010	Brookfield advised of change to requirements	12/03/2010
NHS-EW-008	Oncology Ward - Specialist ventilation	16 th April 2010	BCL advised of omission of specialist ventilation from 4 (nr) bedrooms and 4 (nr) day rooms in Oncology Ward	
NHS-EW-009	REF NO – NOT YET USED			
NHS-EW-010	Site Electrical Load	16 th April 2010	BCL advised of reduced electrical load from 21.5 MVA to 18 MVA	
NHS-EW-011	Patient Hoists and Structural Support	16 th April 2010	BCL advised of omission of 100 (nr) patient hoist including structural support from wards	
NHS-EW-012	REF NO – NOT YET USED			
NHS-EW-013	HV Generators	16 th April 2010	BCL advised of Change of 2 (nr) 2.5 MVA HV generators to 2 (nr) 2.5 MVA LV Generators	

7.3 Project Managers Instructions


The following Project Manager's Instructions have been submitted as at 24/03/2010:-

			
Ref No	Item	Date Issued	Date Signed
MB/PM/General/001	Stage 1 Laboratories - Start on Site Date	27 th January 2010	27 th January 2010
MB/PMI/General/002	Revision to Contract Assessment Dates	8 th February 2010.	8 th February 2010.
LAB / PM / General / 003	Laboratory block - tunnel reconfiguration	10 th February 2010	10 th February 2010
PMI / General / 004	Excavated Materials / Spoil	23 rd February 2010	23 rd February 2010
PMI / General / 005	Laboratory Project - Future Expansion	23 rd February 2010	23 rd February 2010
PMI / General / 006	Laboratory Project - Basement Floor Level	26 th February 2010	26 th February 2010
PMI / General / 007	Laboratory Project - Ventilation to PM tables	26 th February 2010	26 th February 2010
PMI / General / 008	Laboratory - Stage E Civil & Structural Engineering Drawings	9 th March 2010	9 th March 2010
PMI / General / 009	Laboratory Project - Relocation of Footprint	10 th March 2010	10 th March 2010

PMI / General / 010	Laboratory project – Architectural drawings and NBS Specification	23 rd March 2010	
PMI / General / 011	Laboratory project – VE review & Architects Drawings	25 th March 2010	
PMI / General / 012	AGV Omission of Clerk of Works	25 th March 2010	
PMI / General / 013	Laboratory project – Removal of old recreation building foundations	8 th April 2010	
PMI / General / 014	Laboratory project – Diversion of water main	8 th April 2010	

7.4 Compensation Events

The following Compensation Event Notices have been submitted as at 24/03/2010:-

			
Ref No	Item	Date Issued	Date Signed
CE 001	Removal of Asbestos Building Board	10 th March 2010	10 th March 2010
CE 002	Removal of Japanese Knotweed	10 th March 2010	10 th March 2010
CE 003	Removal of Excess Spoil	10 th March 2010	10 th March 2010

7.5 Monthly Payments

Assessment nr 3 was processed and issued as follows:-

Stage 1	£	2,940,370.00
Stage 2	£	3,610,158.00
Stage 3	£	
Stage 3A	£	
PSCP Work Done to Date	£	6,550,528.00
Deduct retention free amount	£	0.00
Sub total	£	6,550,528.00
	£	-508,034.00
Sub total	£	6,042,494.00
Deduct previous payments	£	2,755,985.00
Sub total	£	3,286,509.00
Add VAT % 17.50%	on £ 3286509	£ 575,139.08
Amount due	£	3,861,648.08

7.6 Cash Flow

The above Assessment amount was significantly below the original Cash flow forecast. The short term Cash flow to 31st March 2010 was revisited and above sum in line with expectations. A comprehensive review of 2010/2011 cash flow is required as part of next cash flow submission. Cash flow updated to capture work package cost allocation and programme.

7.7 Risk Review and Management

A review of both Contractor and Board Risk Registers is to be undertaken at next Commercial Meeting.

Board Risks Triggered are:-

Risk ID	Description	Occurrence
13	Unforeseen Site Conditions	Site topography changed since Topographical Survey undertaken as a result of spoil dumping
15	Diversion of unforeseen services	Water main discovered under Laboratory building footprint
17	Asbestos	Asbestos board discovered on Laboratory site
20	Japanese Knotweed	Identification and treatment of Japanese Knotweed

8 Commissioning

8.1 Nothing to report this month as Commissioning Group meetings are not planned to Commence until April/May 2010.

8.2 Topics covered by this group will be;

- IT/ Telecoms
- Equipment / technical equipment / gases / Gp 1,2,3 & 4
- FM and Operational Aspects
- Communications / HR
- Estates
- Clinical Transition / Migration / Logistics / Double Run

Initial work by this group will be the development of draft equipment lists based on information being developed by the Brookfield team, this will inform work to develop more accurate equipment budgets and enable comparison against the OBC budget equipment allowance.

9 Enabling Works

- Temporary Car Parks, Waste Compound, SAS Move.

9.0 Enabling and Related Site Infrastructure Works Under Board Control

9.1 Scottish Water Land

The draft title plan is with Scottish water for consideration, the Board will require to agree the new location of the internal access road which is being displaced by the new main entrance road and pavements.

The Project Team have agreed to take forward the land transaction in conjunction with the Board's property advisers Jones Lang LaSalle and the legal's by the Central legal Office in Edinburgh.

9.2 Scottish Ambulance Service

Work is ongoing on the planning application and tender preparation.

9.3 Helicopter and Construction Works Interface

The management plan is now in its final format although detailed discussion with helicopter operators ongoing with regard to approach and landing protocols. This requires to be closed out by 27th April 2010.

9.4 Demolition Works

A preliminary programme of works is being prepared by the Project Team to consider the decommissioning and demolition of the buildings within the Stage 3 site area. The programme will consider the following;

- Decant dates for staff to vacate.
- Dates for Type 3 asbestos surveys.
- Dates for bat surveys.
- Dates to terminate M&E services to buildings.
- Projected dates for handover to demolition contractor.

It is proposed to undertake the demolition works in a phased manner to allow the operation of the catering department to be maintained as long as possible and, provide a clear site for the first week in November 2010. The Board are also concluding discussions on the procurement route for the demolition contract.

10 Other Matters

- Car Parks, Education Centre, Ronald Macdonald House

10.1 Car Park 1

The contract has now been formally let to Barr Construction Ltd. Mobilisation works have commenced, completion is programmed for mid March 2011.

Setting out information from Hypostyle Architects has been passed to BCL and the master plan team to inform their final layout for the planning submission on 22nd April 2010.

Community Engagement

Alan Keeley accompanied by Mark McAllister, the Board's Community Engagement Manager, met with local resident representatives at an internal meet and greet on Tuesday evening 20th April 2010.

Further meet and greet evenings and events are being planned to engage the local Community.

Brookfield has entered into a Partnership Agreement with Glasgow South West Regeneration Agency, Community Engagement in Scotland and Glasgow City Council. This agreement is in place to maximise the community engagement within Scotland and to ensure that there is sufficient opportunities for the local community to be part of the Hospital development.

Brookfield's portal is in the final stages of going live and is expected to be up and running by the 7th May 2010. This portal will be a point of contact where SME/SE's and Job applicants can show their interest and it will allow them to submit their details. It will provide updated information on available packages and job vacancies on the Hospital.

Union and other 3rd Parties

Alan Keeley met with Joe McLaren of UCATT on Thursday 15th April 2010. This was an informal meeting although Joe McLaren made it clear that he expects BCL to have a full time Union Convenor on site and they will ensure **Working Rule Agreement**, pay rates with labour employed directly by us and subcontractors other than some of the most specialist trades.

Staff

- Ian Armstrong joined BCL and Glasgow on 12th April 2010 as site Health & Safety Manager
- Darren Pike joined BCL and Glasgow on 22nd March 2010 as site Mechanical & Electrical Manager
- John Clare has been transferred to Glasgow from Head Office on the 12th April 2010.
- John Ferguson has been recruited (hourly Paid), as a Crane Co-ordinator. John worked on the Peterborough contract and has been re-employed.
- Derek McFarlane joined BCL and Glasgow on 22nd March 2010 as a Senior Quantity Surveyor.
- Paul Heath joined BCL and Glasgow on 29th March 2010 as a Quantity Surveyor.

Appendix 1

Marked up Programmes

Appendix 2

Progress Photos

New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield Construction (UK) Limited

Monthly Progress Report No 4

25th May 2010



Brookfield

Contents

1	Executive Summary
2	Health Safety and Environment
3	Programme and Progress
4	Design Development
5	Construction and Logistics
6	Laboratory Project
7	Commercial
8	Commissioning
9	Enabling Works
10	Other Matters

1 Executive Summary

HEALTH & SAFETY

Safety

1 RIDDOR Reportable this month – 14/4/10 Darfen operative fractured his left big toe when a gate post slipped out of his hand.

1 Dangerous Occurrence (Not RIDDOR Reportable – 5/5/10 Whilst welding above a bore hole in the mortuary area a stent welder ignited some methane gas causing an explosion. A flame discharged from the top of the bore hole and caused minor burns to his face.

Hours worked to date	21630
Average No. People on site	71
AFR	6.71
AIR	14.08

Swipe card system now up and running. All employees were re-inducted before passes were issued.

First monthly H&S meeting to be held 19/5/10.

Occupational Health

A meeting has been arranged with Duradiamond for Tuesday 25th May to discuss mobilisation. Looking to get something in place for the beginning of June.

A meeting has been arranged with Health Working Lives for Thursday 20th May to register the project onto the scheme. The scheme is run by the NHS and is designed to look at the wellbeing of workers.

Environmental

Ironside Farrer has applied to SEPA on our behalf for a Simple Licence, so that we can pump water from the mortuary bore holes into the drains.

An initial meeting was held on site on Monday 17th May with SKIPEEZ. The company are keen to set up a waste transfer plant on site.

DESIGN

Laboratories

Stage D to E PMI's issued for Architecture and Structure. PMI for M&E remains outstanding albeit content at stage E has been agreed. M & E design to construction issue is now ongoing.

C&B are producing an equipment schedule to be developed from the consultant's drawings, and this is still awaited.

Work continues on developing the fire engineering design of the entrance void.

Building Control

Stage 2 warrant submission has been made to Building Control, they continue to advise a response time of 5 to 8 weeks

Planning Conditions.

The table below outlines the current position of the planning condition in respect of the Labs.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring continuance	Discharged (applied for)
09/01676/DC	32	11	3	6	5 (7)
Pre Start Condition	15				5 (8)

Two pre start conditions are yet to be formally applied for, however the LPA remain in active discussion regarding the two issues; materials and surface water discharge.

A separate planning application has been made as required for drains outside the red line boundary as required by the LPA.

Adult and Children's

Good progress continues with the 1:200 user groups with all departments having been agreed apart from imaging. Children's 1:200 remains ongoing.

The 1:50 review phase has changed in terms of order but continues in line with programme.

Design co-ordination meetings continue with emphasis on below ground services, setting out, and road locations.

Work is being undertaken to minimise tree removal noting TPO's and planning approval requirements, with emphasis on retaining the location of the telecommunication mast. Tree surveys have now been completed

Review of SUDS maintenance requirements has taken place and advice provided to the Board who will now progress the required legal agreement.

Building Control

Positive dialogue is now ongoing with Building Control with the first formal meeting having now taken place. The main principles in respect of fire safety have been reviewed and Building Control have responded positively. Ongoing dialogue continues regarding matters they are questioning further..

Future changes to Building Regulations have been identified and the potential impact is currently being reviewed.

Planning Conditions.

The table below outlines current position of planning conditions in respect of the A & C.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring continuance	Discharged (applied for)
--------------	----------------	---------	---------	------------------------	--------------------------

07/01158/DC	43	29	-5	3	0 (6)
Pre start Conditions	23				0 (6)

Master Plan

The LPA are currently preparing the report for committee on the 22 June 2010.

Positive dialogue continues with the planners and consultees

A&DS report has now been received, with positive response on the masterplan element. It is evident however that they would like to comment beyond the masterplan, consequently the NHS has written direct to the LPA to seek further clarification

Issues on road layout and access to the FM service areas to the west of the labs have now been resolved, and the road layout supplemented with the VISIM analysis which has also been presented to the LPA. The NHS are to undertake dialogue with Scottish Water regarding the proposed signalised entrance to the SW site opposite the end of the new road at the junction of Govan Road.

The acoustic helipad report has been completed, agreed with the NHS, and subsequently submitted to the LPA.

Resolution regarding the substation being situated within car park two is being actively pursued. The programme requirements for the sub-station completion is driving the outcome of the possible options being discussed.

Energy Centre

Co-ordination work between the consultants continues, including reviews of options for external materials and examination of alternative energy initiatives to meet requirements

Other Group Reports:

Technical Design Group

Deliverables have been populated against appendix K and key dates are now being included in readiness for NHS review

Sample schedules have been produced to record agreed materials.

It has been agreed that the technical design group and medical planning group be merged to eliminate duplication at this stage of the design.

Design Healthy Environment Strategy Group (Art)

The group is undertaking various meeting including opportunities to raise further monies. Two artist have been employed to provide the deliverable brief and co-ordination with Nightingales is underway.

The group have been made aware of the budget and that it does not apply to the Labs building

Medical Planning Group

Adult & Children's

Signed off 1:200 and continuing to make good progress. Changes to the schedule of accommodation are being recorded by the consultants and agreed with the NHS with changes produced from round 1 of the user groups being carried forward with the document being finalised at round 3.

Code book area schedules have been reviewed to standard rooms types is being systematically reviewed by the NHS nears completion.

Project standardisation and union schedules have being issued with workshops ongoing to review ADB codes.

Equipment Selection Group

Laboratories Equipment List remains outstanding.

The LABS fume cupboards are to be included as Group 2 and the exact quantities are to be confirmed as part of the Stage D to Stage E reconciliation.

Adult & Childrens Hospitals Equipment List is on programme to be produced for the end of May 2010.

COMMERCIAL

Subcontract Step Down

Both Option A and Option C drop downs are complete and in use for both tender enquiries and new subcontract appointments.

Key Subcontractor Appointments

Mercury Engineering

Following the reconciliation of the stage D to E pricing in connection with the laboratories work is continuing with D&S and Wallace Whittle to target value engineering opportunities within the stage E design to mitigate the potential impact on the Board.

The Subcontract is being prepared on the basis of Option C (Target Cost Maximum Price). Scope documents are being finalised in conjunction with M&E management team. Final Ts and Cs are being negotiated and a meeting is scheduled for 19th May to reconcile the Target Cost Framework.

The Subcontract will incorporate Stage 1, 2 and 3 works.

Astins

VE discussion for stage 1 works have commenced and further meeting scheduled for 19th May.

Stage 3 scope and risk definition discussions are continuing. Astins response to proposed terms and conditions is awaited but no major issues are envisaged.

Structal

Subcontract documents are now finalised and issued. The budget allowance for stage 3 is still to be fully ratified and agreed with D&S.

All terms and conditions are agreed with the exception of retention bond wording. This will be resolved and documents issued by 24th May.

Stage E variation fully instructed and discussion on valuation of compensation event progressing.

Dunne Civil Engineering

Subcontract documents are now finalised and issued. The budget allowance for stage 3 is still to be fully ratified with D&S.

Swisslog

All terms and conditions are agreed. Subcontract documents held pending resolution of major change to omit cart washers and confirm cost of adapting AGVs to Boards cart configuration. As this is taking some time to resolve the documents will now be issued with the VO and varied post contract.

Schindler

All terms agreed and cost confirmed. Documents issued.

Stent

Stage 1 piling ATL approved and documents issued. Awaiting signature.

Permanent 33kva connection

All instructions in place and first payment issued

Security

CUK appointed.

Procurement Planning

Tender enquiries issued for stage 1 structural steel.

Tender enquiries being prepared for all stage 1 envelope trades. Design checks underway for sign off for procurement.

Stage 3 procurement strategy has been proposed and is being finalised.

CONSTRUCTION

Enabling works

Hoardings and gates will be complete this week.

BCL and Dunnes have moved into the new site offices (3x13no units), the Board to move in soon after 24 May. Cleaning package commenced. The initial 10 office / welfare units installed by Dunnes have been removed and the area will be converted to staff parking.

Welfare Facilities and canteen are fully operational for Stage 1 Construction.

CUK security are fully established with access control operating through card swipe turnstiles.

AK has had an initial meeting with a potential waste management contractor, Skipeez. A visit to a live Bovis contract that Skipeez are operating on is scheduled for next week.

The stock pile of Japanese Knotweed contamination has been removed from site.

Considerate Constructors visit is planned for 4 June 2010.

Temporary substations are under construction / installation and Scottish Power have had payment for the supply off Govan Road

Laboratory Project

Stent piling operations are complete across zones 2 and 3 and both piling rigs set up within the basement area for these critical path operations.

During further test pile operations unexpected levels of methane were discovered within the pile bores that in some cases exceeded the lower explosive limit. Works were immediately halted until suitable investigations were completed and safe working procedures established.

Full production has now been resumed and both pile rigs are established within the basement area in an attempt to mitigate some of the lost output, and whilst some opportunity from previous gains has been lost the piling works remain on target to complete ahead of schedule.

Dunnes have commenced works to Core areas 1 and 4 as well as tunnels within zones 1 and 2.

TC2 and TC3 cranes were erected successfully on the weekend of the 17th and 18th April 2010.

Crane base installed for TC1 with installation currently anticipated for weekend of the 22nd and 23rd May 2010

Helicopter management plan is complete and signed off as well as Air traffic Authorisation, with monitoring in progress for each event.

Forthcoming Works:

Piling operations to continue through basement and Zone 1 pod area (GL C1-C11), with basement due for completion and hand over to Dunne 2nd June 2010.

Stent works targeted to complete 11th June 2010.

Core 1 and 4 to continue above ground level and tunnel wall and roof slabs to commence to zones 2 and 3.

Basement core and foundation construction from 3rd June 2010.

TC1 installation weekend of the 22nd and 23rd May 2010

2 Health Safety & Environment

Project SHEQ Meeting

Occupational Health

New Starters in Month:

Total 1

Ian Armstrong Start date 12/4/10 H&S Manager

Non Safety Critical Medicals (paper screen)

Pre-employment Safety Critical Medicals

Safety Critical Medicals Outcomes:

Total 0

No Health Problems

Newly Identified Health Problems

Existing Health Problems

Medical Centre Treatment Attendance:

Total 0

Works Accidents

Non-Work Related Accidents

Ill-Health

Reviews

Health Promotion

Pre OHS Medicals

Health Surveillance

Performance

- Health, Safety and Environment**

Paul Bidecant has assisted with method statement reviews and approvals as well as overall review of documentation and site set up. Dunnes have demonstrated a good attitude to site safety and environment and compliance with procedures.

Health Surveillance has not yet been implemented. Duradiamond need to be mobilised for mid May when the first aid room will be available.

Hours Worked		No. of Accidents Book Entries	Riddor	Near Miss	Serious Injury
This Month	13870	2	1	0	0
To Date	16420	2	1	0	0

Summary of accident/incident trends is shown below.

Notes on Riddors/Serious Injury

Darfen's operative (hoarding erection) dropped Steel gate post on his foot and fractured his toe.

Key Events

- Ian Armstrong joined BCL and the Glasgow Site team on Monday 12th April 2010 as the site H&S Manager.
- A Project Health and Safety Presentation was given to Gerard McCulloch, Robert Thompson and Sharon Davidson of H&S Executive, by Jim Senior, Ross Ballingall, Alan Keeley, David Jordan and Ian Armstrong of Brookfield Construction (UK) Ltd on Wednesday 14th April 2010.

This was well received by the Inspectors who readily entered into dialogue with ourselves. (Notes to be made available on actions/points of interest).

- The production and sign off of a Helicopter Management Plan requires all party sign off before the Tower Cranes can operate.

However Brookfield Construction UK Ltd did receive approval to erect two tower cranes (TC3 and TC2); these were erected between Friday 16th and Sunday 18th April 2010.

- Noise levels on site during sheet piling works necessitated the introduction of exclusion zones and ear protection levels. This is to be taken into account when reflecting sheet piling methods for stage

3.

Generally

- Dunnes and Stents compliance with procedures, housekeeping and co-operation is good.
- Temporary welfare Facilities are still satisfactory for 60 no. of operatives on site. Canteen facilities will be in place by early May 2010.
- CUK have taken over the security and access control on 21st April 2010. Swipe access will be in place by 4th May 2010.
- Health Surveillance/First Aid accommodation will be available for Duradiamond by 11th May 2010. Arrangements need to be put into place for Duradiamond to commence on a part-time or full-time role.

Environment

- Cleanliness of roads remains very good with 2no. Wheel washers in position.
- Pumped water discharge is via a silt buster which is working well.
- Hoarding progress is slow and requires additional resources so that it can be completed by the end of April 2010.
- Recycling of materials by Dunnes is visible and pro-active by them.

- John Treacher of SEPA (Scottish Environment Protection Agency) visited site on Friday 16th April 2010. Thales Factory Facilities Management reported a problem with contamination of Linthouse Burn on their site downstream of the Hospital Campus between the Campus and the River Clyde discharge point. Our Subcontractor Castlebrae has been cleaning out the campus drains during the survey work and SEPA visited our site as a result of this.

Mr Treacher was satisfied after a discussion and an inspection of our site that no contamination of the Burn originated from our site. However Alan Keeley met at the Thales site with their FM Manager and Hugh McDermert of the NSGH Board to inspect the Burn.

BCL are of the opinion that the 'contamination' within the Hospital system has been building up over several years and has only been dislodged as a result of Castlebrae's pressure jetting.

However SEPA has made it clear that they expect Brookfield to remove the solid pollutant on Monday morning 19th April 2010. BCL and the Board to investigate the cause of the Pollutant.

- No complaints received from the Board or neighbours, (other than SEPA).
- Working hours established is 7.30am to 17.30pm. However stent piling and WACO temp and office fit out are currently working until 19.00pm, (still within the permissible agreed finishing time).

Programme and Progress

Reporting period - to 9th May 2010 week 20 of contract.

The following programmes are included with this report with static drop line mark up. (Refer to Appendix 1 for copies of programmes)

Summary of Master Programme No. BCL-GSM-CN01-0004

Stage 1 Design and Procurement Programme No. BCL-GS1-PR02-0002

Stage 1 Updated Labs Construction Programme No. BCL-GS1-WKC-0003

Stage 2 Updated Detailed Design to FBC Programme No. BCL-GS2-WKC-0003

Stage 3 and 3a remain as per contract programme and therefore are not included in this report.

Summary Master Programme

Overall Stage 1 and Stage 2 of the project are on programme.

Stage 1 Laboratory Design Programme

Tender documents issued for
Steel Stairs,
Structural Steelwork,

Stage 1 Laboratory Procurement Programme

Copper metal cladding is included with Structural package therefore no tender required.
Partitions are being procured with our chain supply partner Astins
Fume cupboards and safety cabinets are no Group 2 equipment and no longer a procurement item.

Stage 1 Laboratory Construction Programme

Piling – 244 out of 356 piles are complete = 68% complete.
3 pile tests have been requested by the Engineer URS
Bulk excavation to the mortuary is complete with tunnels in progress.
Pile caps to cores in progress.
Tunnel blinding and base slab in progress.
2 No Tower cranes are erected and operational.
A third tower crane is due to be erected end of month.
The project completion date remains at 10th March 2012.

Stage 1 Laboratory Construction Programme – 6 week look ahead weeks 21 to 26

A six week look ahead construction programme for the laboratory is included in this report.

Stage 2 Detailed Design to Full Business Case

The Stage D to E design issues has caused late issue of Stage E design. Stage E design for architectural, structural and M&E has now been issued. The previously reported programme concerns regarding the Structural's cladding procurement have been mitigated and are not expected to affect the project completion date.

Stage 1 Laboratory Construction Programme

The programme has been completely revised following the issue of Stage E drawings and revised basement and tunnel layouts. These design revisions have driven a revised construction sequence from the clockwise direction of our contract programme to an anticlockwise direction as indicated on this updated programme. The project completion date remains at 10th March 2012.

The laboratory project is on programme. Piling started on 15th March - one week ahead of planned start and progressing well.

Tower cranes TC2 and TC3 were erected week 17.

Sheet piling to mortuary area complete and bulk excavation started.

Stage 2 Detailed Design to Full Business Case

1:200 user group meetings are on programme. Adult Round 3 complete. All remaining user group meeting have now been scheduled to complete on 27th May 2010.

RDS and Standard Room process which leads to 1:50 process is going well with batches room data sheets and standard rooms submitted well ahead of programme. Board are reviewing and returning comments quickly. Meetings are being held with the Board regularly to assist them through this process.

1:50 user group meetings have been set up for round 1 and 2 with the first starting on 14th June.

Planning – Master plan was submitted to Glasgow City Council on 22 April 2010 with determination expected 22 June 2010. Following determination of the master plan, the remaining matters specified in the conditions can be submitted for discharge.

Medical equipment First draft equipment list is expected to be issued end of May 2010 for review.

Appendix K is programme drafted for review.

4 Design Development

LABS

Stage D to E PMI's issued for Architecture and Structure. PMI for M & E remains outstanding albeit content at stage E has been agreed. M & E design to construction issue is now ongoing.

C&B are producing an equipment schedule to be developed from the consultant's drawings, and this is still awaited.

Work continues on developing the fire engineering design of the entrance void.

Building Control

Stage 2 warrant submissions has been made to Building Control, and they continue to advise a response time of 5 to 8 weeks

Planning Conditions.

The table below outlines the current position of the planning condition in respect of the Labs.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring continuance	Discharged (applied for)
09/01676/DC	32	11	3	6	5 (7)
Pre Start Condition*	15				5 (8)

* Two pre start conditions are yet to be formally applied for, however the LPA remain in active discussion regarding the two issues; materials and surface water discharge.

A separate planning application has been made as required for drains outside the red Line boundary as required by the LPA.

Adult and Children's

Design

Good progress continues with the 1:200 user groups with all departments having been agreed apart from imaging. Children's 1:200 remains ongoing
The 1:50 review phase has changed in terms of order but continues in line with programme.

Design co-ordination meetings continue with emphasis on below ground services, setting out, and road locations.

Work is being undertaken to minimise tree removal noting TPO's and planning approval requirements, with emphasis on retaining the location of the telecommunication mast with tree survey now having been completed.

Review of SUDS maintenance requirements has taken place with advice been given to the Board who will now progress the required legal agreement

Building Control

Positive dialogue is now ongoing with Building Control with the first formal meeting having now taken place. The main principles in respect of fire safety have been reviewed and Building Control has responded positively, ongoing dialogue continues regarding matters they are questioning further..

Future changes to Building Regulations have been identified and the potential impact is currently being reviewed.

Planning Conditions.

The table below outlines current position of planning conditions in respect of the A & C.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring continuance	Discharged (applied for)
07/01158/DC	43	29	-5	3	0 (6)
Pre start Conditions	23				0 (6)

Master Plan

The LPA are currently preparing the report for committee on the 22 June 2010.
Positive dialogue continues with the planners and consultants.

A&DS report has now been received, with positive response on the master plan element. It is evident however that they would like to comment beyond the master plan, consequently the NHS has written direct to the LPA to seek further clarification

Issues on road layout and access to the FM service areas to the west of the labs have now been resolved, and the road layout supplemented with the VISIM analysis which has also been presented to the LPA. The NHS are to undertake dialogue with Scottish Water regarding the proposed signalised entrance to the SW site opposite the end of the new road at the junction of Govan Road. Changes to the master plan have been made to reflect NHS requirements including the removal of the pond and communal gardening project, with car park 2 and the energy centre being used to accommodate wind turbines. 3D physical models were altered in readiness for the presentation.

Brookfield Construction (UK) Ltd have achieved the target in making the application to discharge conditions in respect of the master plan before the end of April to meet the June planning committee meeting.

Initial reports are in progress regarding the helipad for review with the NHS.

The acoustic helipad report has been completed, agreed with the NHS, and subsequently submitted to the LPA.

Resolution regarding the substation being situated within car park two is being actively pursued. The programme requirements for the sub –station completion is driving the outcome of the possible options being discussed.

Energy Centre

Co-ordination work between the consultants continues, including reviews of options for external materials and examination of alternative energy initiatives to meet requirements

Other Group Reports:

Technical Design Group

Deliverables have been populated against appendix K and key dates are now being included in readiness for NHS review

Sample schedules have been produced to record agreed materials.

It has been agreed that the Technical design group and Medical planning group be merged due to review duplication at this stage of the design.

Design Healthy Environment Strategy Group

The Group has now met 5 times, once formally with the Brookfield team and a schedule of meetings with strategy development milestones agreed.

- Recruitment of Artist capacity for research and development stage to progress 2 themes of work: Therapeutic Environment and Way completed and induction phase is underway.

Progress to Date:

- Outline framework of Arts and Wellbeing strategy agreed and content under development
- Approach to identification, prioritisation and zoning of 'art and wellbeing' enhancements for both internal and external environments agreed
- Engagement approach for both children's and adults discussed – to be written up-workshops with stakeholders planned for end of August.

- Opportunities for public atrium space in Lab development explored with local partnership funded artist residency scheme (BBC Scotland and Culture & Sport Glasgow) to develop Sci-Art focus with external partnership funding. Mortuary/ viewing facility enhancement to be scoped by Ginkgo in conjunction with agreed work plan with additional capacity funded by health improvement. Proposal in development for both areas for inclusion in strategy.
- Meeting with Scottish Arts Council planned

Issues to flag to project team:

- Potential of 'enhancements' for external fundraising will be considered in prioritisation process
- Numbers of issues emerging that require resolution by Design group or other project groups. Minutes will highlight issues specifically for redirection across project teams e.g. approach to Disabled Car parking / Façade/Design of car park 2 impacting on external space for children's playground.
- Initial draft of strategy will be available for consideration by project team mid June

Medical Planning Group

- Adult & Children's

Signed off 1:200 are continue to make good progress. Changes to the schedule of accommodation are being recorded by the consultants and agreed with the NHS with changes produced from round 1 of the user groups being carried forward with the document being finalised at round 3.

Code book area schedules have been reviewed to standard rooms types is being systematically reviewed by the NHS nears completion.

Project standardisation and union schedules have being issued with workshops ongoing to review ADB codes.

Equipment Selection Group

The second meeting of the Equipment Selection Group was held on 07 April 2010 and the following key activities were identified:

- Laboratories Equipment List will be prepared without full conversion of drawings and data to ADB system. Currie & Brown will prepare a list of all equipment in Groups 1-4 derived from the 1:50 Room Layouts and Detailed Room Briefing Sheets.
- Adult & Acute Hospitals Equipment List will be derived from the current RDS and 1:50 Room Layout process. BCL will update the group on programme for the delivery of both draft and final equipment lists at the next meeting
- The fume cupboards are to be included as Group 2 and the exact quantities are to be confirmed as part of the Stage D to Stage E reconciliation.
- The Laboratories Equipment Representative will attend the next meeting on 6th May 2010.

Equipment Selection Group

The third meeting of the Equipment Selection Group was held on 12 May 2010 and the following key issues were discussed:

- Laboratories Equipment List: The list being prepared by Currie & Brown is being generated from the BMJ Room Briefing Sheets and 1:50 Layouts. This will require to be amended to reflect the Wallace Whittle layouts in terms of power and data points. BCL are undertaking a take off from the Wallace Whittle layouts, to be fed back into the Equipment list. ADB codes will be provided by NHS GG&C and these will be added to the Equipment List.
- Adult & Acute Hospitals Equipment: First draft will be provided at the end of May, with subsequent updates late July and early October, following 1:50/RDS development. BCL will provide sample outputs prior to the next meeting.
- The Group have agreed to create a list of key areas to be monitored closely through the design development including:

- Catering
- Aseptic Suite
- Decontamination
- Radiology
- Renal
- Pharmacy

IT Group

The third meeting of the IT Group was held on 12 May 2010 and the following key issues were reviewed:

- There is no requirement for a second IT network and the ER's are to be amended to reflect this.
- Size of IT Hub rooms to be reviewed as there is concern that they are currently too small to accommodate 4 cabinets.
- IT Workshop to be held week commencing 07 June 2010.
- No servers to be located within Laboratories building.
- IT Risk Registers to be incorporated into Project Risk Register
- Telephony solution to be accommodated within Laboratories sufficient to allow standalone VOIP installation.
- Incoming duct requirements to be clarified.

5 Construction and Logistics

Logistics/Site Establishment/Enabling Works

- Two entrance/exit gates are in operation.
- Stage 1 & 2 offices delivered (39 no.) and being fitted out for occupation on the 11th May 2010 (IT connection programmed towards this date).
- Stage 1 & 2 welfare units delivered and connections completed on the 19th April 2010.
- Catering procurement is in process and anticipated operation by the 11th May 2010 at the latest.
- Progress on the Hoarding and Gates is slow and additional resource required to complete in 2 weeks time as per programme. Decoration commenced and BCL/NHS logos were fixed week commencing 19th April 2010.
- Existing power supply to 5 + 5 cabin set up is 100A and new office and welfare facilities will run off generators as will the 2 Tower Cranes. A bigger temporary supply from Scottish Power is anticipated early June.
- Existing 25mm water supply should suffice for now but may need a storage tank that will fill at night. The possibility of sinking a bore hole well is under consideration.
- Planning of longer term logistics (to be allowed for now),and routing of temporary services is proving to be a challenge as the Master plan layout continues to change during Design Development leading up to the Master plan submission to the Planning Authorities.
- CUK took over Security from Turners on the 21st April 2010. Access control office and turnstiles arrived on 20th April 2010. CUK will be providing gate men access control and out of hours security.

Stage 2 Works

- Existing drainage survey and burns condition survey is in progress and should be complete within two weeks.
- Bore holes and trial pits both inside and outside the hoarding have been progressing and continue. (Completion anticipated week ending 19th April 2010).

6 Laboratory Project

Japanese Knotweed has been removed from its bunded area on site to an authorised tip as per board instruction.

Stent piling operations are complete across zones 2 and 3 with both piling rigs then set up within the basement area for these critical path operations.

During further test pile operations unexpected levels of combustible gases were discovered within the pile bores that in some cases exceeded the lower explosive limit. Works were immediately halted until suitable investigations were completed and safe working procedures established.

One pile rig and crane was removed from the basement to maintain some level of production until the nature of the gas detected was established and above implementation completed

Full production has now been resumed with both pile rigs re established within the basement area in an attempt to mitigate some of the losses to programme.

Dunnes have commenced works to Core areas 1 and 4 as well as tunnels within zones 1 and 2

Concrete works to tunnel base slab have commenced to zone 2 and zone 3, with first pour achieved on Wednesday 19th May 2010

TC2 and TC3 cranes were erected successfully on the weekend of the 17th and 18th April 2010.

Crane base installed for TC1 with installation currently anticipated for weekend of the 22nd and 23rd May 2010

Helicopter management plan is complete and signed off as well as Air traffic Authorisation, with monitoring in progress for each event

Forthcoming Works:

Piling operations to continue through basement and Zone 1 pod area (GL C1-C11), with basement due for completion and hand over to Dunne for core 5 base and general foundations from 3rd June 2010

Stent works targeted to complete 11th June 2010 including rig demobilisation

Pile testing to be from Friday the 21st May 2010. This is to include both the basement and pod test pile.

Core 1 and 4 wall construction to continue above ground level, with cores 2 and 5 base excavations commencing late May and early June respectively.

Concrete works to tunnel wall and roof slabs to commence w/c 24th May 2010 to zone 2 and zone 3.

TC1 installation over the weekend of the 22nd and 23rd May 2010

Review of Helicopter Management plan on 28th May 2010 at the NSGH site offices.

7 Commercial

7.1 Budget v Cost Plan – TP/MP

Adult & Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on the Target Price.


Laboratories: Stage D to E cost implications all but agreed, final close out and agreement on Group 1 equipment required. There has been 3 Nr Compensation Event Notices issued for Laboratories works (refer below), minor cost impact.

Sub-station: Scottish Power Quotation has been accepted

Contract Award Target Price	£575,111,382
Compensation Event Notices Issued – formally Closed Out	
Compensation Event Notices Issued – Estimated Value	£850,000
Current Estimated Contract Target Price	£575,961,382

7.2 Early Warning Notices

Current status of EWN's issued to date as follows:-

<div> <div>Brookfield</div>  </div>				
Ref No	Item	Date Raised	Status	Date Completed
BCL-EW-001	Brookfield Value Engineering Items	13 January 2010	Value impact work in progress Focus on Tunnel Arrangement – Pack received by Board 01/02/2010	10/02/2010 (PM PMI 003)
BCL-EW-002	Mobile Phone Mast Location	8 th February 2010	13/04/10: Work in progress to agree master plan with GCC. Board waiting on drawing from Brookfield. Tree removal to be determined and retaining wall around Mast base to be reviewed. 27/04/10: Tree surveys being undertaken, current road alignment takes more Scottish Water Land than previously identified by BCL. Issue requires to be resolved 11/05/10: Surveys finished and trees to be removed identified. Drawings issued to Scottish Water land requirements, feedback awaited. Drainage swales have increased requirement, alternatives to be considered if SW cannot accommodate increased land take	
BCL-EW-003	Utilities (1MVA) Power	10 th February 2010		Closed: part of Scottish Power Quote
BCL-EW-004	Utilities (11kv Breaker)	10 Feb 2010		Closed: part of Scottish Power Quote
BCL-EW-005	Utilities (Moving 11KV Circuit Breakers) – Hospitals	17 th February 2010		Closed: part of Scottish Power Quote
BCL-EW-006	Utilities (Moving 11KV Circuit Breakers) - Labs	17 th February 2010		Closed: part of Scottish Power Quote
BCL-EW-007	Discovery of Foundations and Brickwork (Labs Site)	3 rd March 2010	Dunne's have removed foundations and brickwork.	8/04/2010 (PMI/General/013)

BCL-EW-008	Planning Issues (Labs Ren	4 th March 2010	13/04/10: Sample of finishes and alternative being provided to GCC GCC indicated that the Chinese Granite sample would be acceptable. Confirmatory letter awaited from Blair Greenock 27/04/10: still awaiting close out on all elevation base course finishes 11/05/10: granite samples approved, copper cladding to columns also approved by planning. Granite is cost neutral, BCL to check regards Copper Cladding, feedback from Labs Design team meeting is that all cost neutral	
BCL-EW-009	Planning Issues (Adult and Children's Render)	5 th March 2010	Sample of finishes and alternative being provided to GCC	
BCL-EW-010	Repositioning of Labs Building	8 th March 2010	Cross reference with PMI / General / 008 and PMI / General / 009	10 th March 2010 (PMI/General/009)
BCL-EW-011	Water Main within Basement Footprint	9 th March 2010	Water main being diverted 13/03/2010 27/04/10: cost still to be finalised and submitted 11/05/10: costs to be submitted by 14/05/10 to allow close out of CE's	08/04/2010 (PMI/General/014)
BCL-EW-012	Access Road serving the laboratories	19 th March 2010	Request for instruction to extend the access road – discussion with Planners required over Planning Conditions 11/05/10: ongoing	
BCL-EW-013	Laboratories Tunnel	29 th March 2010	Request to construct the Labs tunnel beyond the extents of the new access road – indicative cash flow pull forward £150K 27/04/10: BCL noted can wait until FBC approval for decision	
BCL-EW-014	Increase in Building Control Fees	14 th April 2010	Work in progress	
BCL-EW-015	Junctions at Govan Road	14 th April 2010	Work in progress	
BCL-EW-016	Kitchen Relocation from level 3 to Basement	14 th April 2010	27/04/10: Meeting to be held with further investigations ongoing to capture all issues require close out to determine full impact	
BCL-EW-017	Compatibility of the existing Kitchen cart/ trolleys and the Proposed AGV Robotic System	15 th April 2010	27/04/10: Meeting held and outcome ongoing 11/05/10: work in progress. Board to provide feedback	

BCL-EW-018	Services Trench - drain to run besides Labs	21st April 2010	27/04/10: Technical review ongoing, on completion cost impact to be provided 11/05/10: ongoing review, awaiting technical solution from BCL	
BCL-EW-019	Planning application for Scottish Water Land	21st April 2010	Latest drawing amended to show larger land take. BCL to provide reasons for increase in land-take	
BCL-EW-020	Discovery of Potential Foul waste within the Storm Drains	21st April 2010	13/04/10: BCL to provide details of location, perceived direction of source of foul effluent and photographic evidence. 27/04/10: Meeting held on site and further investigations ongoing 11/05/10: SEPA to write to Board & BCL concerning issue. Not an enforcement notice, but want to know what happened. Further investigations ongoing concerning reasons for event and resolution	
BCL-EW-020	Discovery of flammable gas withing ground at Labs Basement area	5 th May 2010	BCL investigated gas discovered in pile bores, full report awaited Method statements in place for safe working.	

Ref No	Item	Date Raise	Status	Date Completed
NHS-EW-001	Stage D to E Reconciliation	14 January 2010	Work in progress	
NHS-EW-002	Testing of Building Board Material on Site	21 January 2010	Complete - CE 001 Issued	11/03/2010
NHS-EW-003	Japanese Knotweed Survey	21 January 2010	Complete– CE 002 issued 27/04/10: BCL provide costs for offsite removal. GG&C to instruct off site removal. Planning Authority to be advised of off site removal as is change from Management Plan issued previously	11/03/2010 Updated 27/04/10
NHS-EW-004	Excavated Building Materials/Spoil	21 January 2010	Complete PMI 004 issued CE 003 issued 27/04/10: cost still to be finalised and	11/03/2010 Updated 27/04/10 Updated 11/05/10

			Submitted. Reduced from circa £110K to £56K 11/05/10: finalised costs to be submitted	
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7.3 Project Managers Instructions


The following Project Manager's Instructions have been submitted as at 20/05/2010:-

				
Ref No	Item	Date Issued	Date Signed	Actions
MB/PM/General/001	Stage 1 Laboratories – Start on Site Date	27th January 2010	27th January 2010	n/a
MB/PMI/General/002	Revision to Contract Assessment Dates	8th February 2010.	8th February 2010.	n/a
LAB / PM / General / 003	Laboratory Block – Tunnel Reconfiguration	10th February 2010	10th February 2010	Ongoing assessment as part of Stage D to E reconciliation
MI / General / 004	Excavated Materials / Spoil	23rd February 2010	23rd February 2010	Costs issued by PS 12/4/190
PMI / General / 005	Laboratory Project – Future Expansion	23rd February 2010	23rd February 2010	Ongoing assessment as part of Stage D to E reconciliation
PMI / General / 006	Laboratory Project - Basement Floor Level	26th February 2010	26th February 2010	Ongoing assessment as part of Stage D to E reconciliation
PMI / General / 007	Laboratory Project - Ventilation to PM tables	26th February 2010	26th February 2010	Ongoing assessment as part of Stage D to E reconciliation
PMI / General / 008	Laboratory - Stage E Civil & Structural Engineering Drawings	9th March 2010	9th March 2010	Ongoing assessment as part of Stage D to E reconciliation
PMI / General / 009	Laboratory Project – Relocation of footprint	10th March 2010	10th March 2010	n/a

PMI / General / 010	Laboratory project – Architectural drawings and NBS Specification	23 rd March 2010	23 rd March 2010	Ongoing assessment as part of Stage D to E reconciliation. AL 70 series drawings to be confirmed
PMI / General / 011	Laboratory Block – VE Review 1	25 th March 2010	25 th March 2010	Ongoing assessment as part of Stage D to E reconciliation M&E updated drawings to be provided
PMI / General / 012	AGV System - Cart Washer	25 th March 2010	25 th March 2010	BCL to provide costs
PMI / General / 013	Laboratory Project – Removal of Foundation from Old Rec Pavilion	8 th April 2010	8 th April 2010	n/a
PMI / General / 014	Laboratory Project – Diversion of water Main	8 th April 2010	8 th April 2010	BCL to provide costs
PMI / General / 015	Removal of Japanese Knotweed off site	24 th April 2010		Costs agreed
PMI / General / 016	Laboratory Stage E Mechanical Electrical Drawings	17 th May 2010		Costs agreed

7.4 Compensation Events

The following Compensation Event Notices have been submitted as at 24/03/2010:-

			
Ref No	Item	Date Issued	Date Signed
CE 001	Removal of Asbestos Building Board	10th March 2010	10th March 2010
CE 002	Removal of Japanese Knotweed	10th March 2010	10th March 2010
CE 003	Removal of Excess Spoil	10th March 2010	10th March 2010

7.5 Monthly Payments

Assessment nr 4 was processed and issued 17th May 2010 as follows:-

Stage 1	£	5,284,439.00
Stage 2	£	4,599,501.00
Stage 3	£	
Stage 3A	£	
PSCP Work Done to Date	£	9,883,940.00
Deduct retention free amount	£	0.00
Sub total	£	9,883,940.00
Retention	£	-724,172.00
Sub total	£	9,159,768.00
Deduct previous payments	£	6,042,494.00
Sub total	£	3,117,274.00
Add 17.50% on £ 3117274	£	545,522.95
Amount due	£	3,662,796.95

Adjustment was made to BCL application to reflect lack of Appendix K programme and visibility of design progress / deliverables.

7.4 Cash Flow

Revised Stage 1 & 2 cash flows were received 14th May 2010. Approx increased £5.4m spend for 2010/2011 for Stage 2 from last forecast. This has arisen from Scottish Powers costs now being forecast for 2010/2011 and increased work package spend costs. Stage 1 cash flow to be developed further for work package spend and more accurate spend forecasts.

It is critical that spend is monitored closely and any movements highlighted as soon as possible, as changes affect NHS GG&C internal capital planning

7.6 Risk Review and Management

A review of both Contractor and Board Risk Registers was undertaken, Stage 1 risk and forecast drawdown of allowances to be monitored to support cash flow updates.

Board Risks Triggered is:-

Risk ID	Description	Occurrence
13	Unforeseen Site Conditions	Site topography changed since Topographical Survey undertaken as a result of spoil dumping

15	Diversion of unforeseen services	Water main discovered under Laboratory building footprint
17	Asbestos	Asbestos board discovered on Laboratory site
20	Japanese Knotweed	Identification and treatment of Japanese Knotweed

8 Commissioning

8.0 Commissioning

8.1 Nothing to report this month.

9.0 Enabling and Related Site Infrastructure Works under Board Control

9.1 Scottish Water Land

The draft title plan is with Scottish water for consideration awaiting confirmation.

9.2 Scottish Ambulance Service

Work on planning application and tender preparation ongoing.

9.3 Helicopter and Construction Works Interface

Further meeting with RAF Gannet on site 11th May, confirmed tower crane arrangement for Brookfield works okay, but took away plan of proposed cranes for Car Park 1 for review. Initial feedback suggested the westerly flat top tower crane for CP1 maybe to close to pad in some free slew wind conditions. Await feedback from Gannet/ARCC.

Bond Helicopters who run the NHS Air Ambulance service have confirmed through their Chief Pilot – Andy Rooney that they are able to work around the tower cranes as installed on the Brookfield site and as proposed for the Car Park 1 site.

9.4 Demolition Works

The Project team have received Board approval to include the planning and management of the demolition and site clearance works with Brookfield's remit. It is proposed to hold a preliminary planning meeting on Tuesday 25th May 2010 to agree how this will be taken forward.

The Facilities Directorate have confirmed that all buildings within the Phase 3 works area will be vacated by 30th June 2010, with the exception of the Kitchen and Main Dining Room which will remain open until the end of August 2010. The Project team have prepared a draft sequence of works that will allow the works to proceed in July while maintaining the bulk of the ground level car parking. This information will be made available to the Brookfield team in due course.

Bat surveys are underway and should be concluded by the end of May 2010. Type 3 asbestos surveys will be required and will most likely proceed first week in July.

The Board have asked that a minimum of 4 companies are approached to provide costs to undertake the works.

10 Other Matters

- Car Parks, Education Centre, Ronald Macdonald House

10.1 Car Park 1

Works have commenced on site, some initial issues on wheel washing and debris on roads have been addressed with the assistance of Brookfield's road sweeper. Project interface issues continue to be addressed at the weekly Site Interface meetings which are attended by Barr's site manager.

10.2 Webcam

Images from the webcam mounted on the Brookfield site accommodation are now being posted on the Board's web site. The direct link to the page is; http://www.nhsggc.org.uk/content/default.asp?page=s1122_3

Community Engagement

Alan Keeley accompanied by Mark McAllister, the Board's Community Engagement Manager, met with local resident representatives at an internal meet and greet on Tuesday evening 20th April 2010.

Further meet and greet evenings and events are being planned to engage the local Community.

Brookfield has entered into a Partnership Agreement with Glasgow South West Regeneration Agency, Community Engagement in Scotland and Glasgow City Council. This agreement is in place to maximise the community engagement within Scotland and to ensure that there is sufficient opportunities for the local community to be part of the Hospital development.

Brookfield's portal is in the final stages of going live and is expected to be up and running by the 7th May 2010. This portal will be a point of contact where SME/SE's and Job applicants can show their interest and it will allow them to submit their details. It will provide updated information on available packages and job vacancies on the Hospital.

Union and other 3rd Parties

Alan Keeley met with Joe McLaren of UCATT on Thursday 15th April 2010. This was an informal meeting although Joe McLaren made it clear that he expects BCL to have a full time Union Convenor on site and they will ensure **Working Rule Agreement**, pay rates with labour employed directly by us and subcontractors other than some of the most specialist trades.

Staff

- Ian Armstrong joined BCL and Glasgow on 12th April 2010 as site Health & Safety Manager
- Darren Pike joined BCL and Glasgow on 22nd March 2010 as site Mechanical & Electrical Manager
- John Clare has been transferred to Glasgow from Head Office on the 12th April 2010.

- John Ferguson has been recruited (hourly Paid), as a Crane Co-ordinator. John worked on the Peterborough contract and has been re-employed.
- Derek McFarlane joined BCL and Glasgow on 22nd March 2010 as a Senior Quantity Surveyor.
- Paul Heath joined BCL and Glasgow on 29th March 2010 as a Quantity Surveyor.

Appendix 1

Marked up Programmes

Appendix 2

Progress Photos

New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield Construction (UK) Limited

Monthly Progress Report No 5

21st June 2010



Brookfield

Contents

1	Executive Summary
2	Health Safety and Environment
3	Programme and Progress
4	Design Development
5	Construction and Logistics
6	Laboratory Project
7	Commercial
8	Commissioning
9	Enabling Works
10	Other Matters

1 Executive Summary

Health and Safety

No Riddor or serious injuries to report this month.

2 minor injuries.

Duradiamond (Occupational Medic) commenced on site Monday 14th June 2010.

Programme and Progress

Stage 1 Laboratories

Integrated Design Programme (IDP) produced (summary included in this report).

Stage E design info issued and co-ordination being carried out to mitigate design delay.

Tender docs issued for envelope packages, currently being reviewed for tender process.

Generally , construction is on programme and completion date remains as 10th March 2012.

Stage 2 Adult and Children's

Generally on programme for FBC.

Design Development

Laboratories

Finalised equipment schedule (all groups) on going.

BREEAM assessment for stage E design to be issued.

Planning: all pre start conditions have been discharged.

Adult and Children's

Both Adults and Children's 1:200's are now signed off. (Design Deliverable achieved)

1:50 Review meetings commenced 14th June 2010.

Planning committee for the Master plan is set for the 22nd June 2010.

Building Control are referring matters of fire safety to the Building standards division

Construction and Logistics

Site establishment and logistics fully set up and working well.

NHS Board and team now co-located on site with BCL team.

Traffic management and access control being suitably managed.

Site car parking suitable, and in line with predicted levels.

Commercial

Target Price remains in line with Agreement.

CEN's estimated at circa £850,000

Cashflows being issued monthly, definition of "working area" to be reviewed.

Payments progressing albeit with some minor abatements.

IBI Group have completed purchase of Nightingale Associates from Tribal Group. Business as usual. IBI meeting arranged with BCL/Board in July to reaffirm commitments. Nightingale Appointment and warranties now executed.

Ongoing meetings to progress EWNs, PMIs and CENs now working well and Sypro being utilised accordingly.

Community Engagement

New Entrants currently at 6% of 10% target.

Sponsorship of local events, procurement presentations, and general implementation of CE strategy is ongoing.

Further work required to ensure 'branding' using communications strategy is achieved.

2 Health Safety & Environment

Project SHEQ Meeting

Occupational Health

Duradiamond the occupational medic has started on site Monday 14th June 2010 and will carry out Safety Critical Medicals, and provide health screening and first aid from the dedicated first aid office.

New Starters in Month: Total

Non Safety Critical Medicals (paper screen)
Pre-employment Safety Critical Medicals

Safety Critical Medicals Outcomes: Total

No Health Problems
Newly Identified Health Problems
Existing Health Problems

Medical Centre Treatment Attendance: Total

Works Accidents
Non-Work Related Accidents
Ill-Health
Reviews
Health Promotion
Pre OHS Medicals
Health Surveillance

Performance

Health, Safety and Environment

Summary of accidents/incidents

No Riddor or serious injuries to report. Two minor injuries were entered into the accident book which were:

- Operative hit on elbow by a clamp falling off scaffold platform.
- Dust in operative's eye.

Hours Worked		No. of Accidents Book Entries	Riddor Reports	Near Miss Reports	Serious Injury
This Month	23940	2	0	0	0
To Date	45570	5	1	0	0

Summary of accident/incident trends is shown below.

Key Events

- A number of Brookfield Construction staff have renewed their Construction Skills Certification Scheme membership.
- CUK have arranged first aid training for all their operatives through SW Glasgow Regeneration. Traffic programmed for gate personnel.
- Brookfield Construction training programme for all staff has been prepared.
- Quality Assurance training sessions have been arranged on site for Brookfield Construction staff.
- The Considerate Constructors Scheme monitor Mr Andrew Agapiou visited site on Friday 4th June 2010, this was Andrew's first visit, and he was here for four hours discussing the scheme and objectives as well as viewing the site and site procedures.

Generally

- Stents completed their works and moved off site week commencing Monday 7th June 2010
- Dunnes now have the site almost to themselves but there are still interfaces with Wingate (temporary electrics) who are laying the main cables and Dunnes sub-contractors.
- Three tower cranes are erected and daily crane co-ordination meetings are held.

Environment

- A car licence application was submitted for our dewatering activities. SEPA have issued an acknowledgement of receipt dated 7th June.
- WSP are preparing a car application for the Jenny's Burn and Linthouse Burn diversion.
- Jon Treacher sent an email to Brookfield Construction and the NSH Board on 2nd June 2010 confirming that SEPA now consider the Thales site Linthouse Burn Pollution Incident to be closed.
- Cleanliness of roads has been exceptional
- Employment opportunity contact telephone numbers, a complaints hot line numbers and sit security numbers are all prominently displayed on the site hoarding next to the site entrance gate.
- Segregation of waste to site offices has been implemented. Waste management of site waste is being controlled by Dunnes presently although Brookfield Construction have commenced interviews with waste management companies to establish what they have to offer

3. Programme and Progress

Reporting period

To 6th June 2010 week 24 of contract.

Programmes Included in this Report

The following programmes are included with this report which have been progress statused and rescheduled to provide the monthly updated programme (Refer to Appendix 1 for copies of programmes)

Summary Master Programme No. BCL-GSM-CN01-to be confirmed

Stage 1 Updated Summary Design Programme No to be confirmed

Stage 1 Procurement Programme No. BCL-GS1-PR03-0001

Stage 1 Updated Labs Construction Programme No. BCL-GS1-WKC-to be confirmed

Stage 2 Updated Detailed Design to FBC Programme No. BCL-GS2-WKC-to be confirmed

Stage 3 Energy Centre Procurement Programme BCL-GS3EC-to be confirmed

Stage 3 A&C Procurement Programme No BCL-GS3-PR to be confirmed

Stage 3 and 3a construction programme remain as per contract programme at this stage and therefore are not included in this report.

Summary Master Programme

Overall Stage 1 Laboratories and Stage 2 Detailed design to FBC are on programme.

Stage 1 Laboratory

Design Programme

An Integrated Design Programme (IDP) has been produced. A summary is included in this report. The Stage D to E design issues has caused late issue of Stage E design. Stage E design for architectural, structural and M&E has now been issued. But this is impacting on coordination of structural design. We are endeavouring to mitigate the problems.

Tender documents issued for

Glazed Curtain walling (ground floor)

Curtain walling (stair cores) atrium 2

Metsec wall liner

Insulated render

Windows

Doors (metal escape doors)

Louvres

Stage 1 Laboratory Procurement Programme

Updated programme against last month's programme baseline (in grey)

Programme has been updated to reflect construction sequence, current market lead times,

Issue of tender information adjusted to be one week earlier to 4 weeks before out to tender date.

Issue of construction information adjusted to 3 weeks before place order date.

Packages out to tender

Stairs are out to tender on programme
Structural steel is out to tender on programme

Tender returns due in the next period

Stairs
Structural steel

Tenders due out in next period

Metsec wall lining
Insulated render
Windows (punched)
Curtain walling (stair cores) Atrium 2
Doors metal escape

Partitions and radiation protection are part of our supply chain partner

Construction Programme

This updated programme includes Dunne detailed substructure programme and modified sequence. One modification is to pull forward the construction of area 7 office pod due to earlier completion of piling in this area. However, due to later than planned completion of mortuary basement piling this is affecting previous month programme of works. Overall, the structure programme is planned to be complete by end of January 2011 as per our original first issue programme.

Progress

Office accommodation complete
All 3 tower cranes erected and operational

Substructure

Piling – 350 out of 356 piles complete = 98% complete. Stent plan be complete and off site by 9th June and handover area to Dunne.

Foundation pile caps approximately 40% complete

Mortuary basement – substructure work planned to start on 9th June

Cores –

Core 1 (A3-A5/AA-AB) complete to level 0

Core 2 (CR-CT/C4-C6) Base slab cast

Core 4 (A13-A15/AA-AB) complete to level 0

Tunnel – approximately 35%

Superstructure

Core 1 – jump form to level 1 in progress

Core 4 – complete to level 1 jump form to level 2 in progress

The project completion date remains at 10th March 2012.

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Superstructure

Core 1 – jump form to level 1 in progress

Core 4 – complete to level 1 jump form to level 2 in progress

The project completion date remains at 10th March 2012.

Stage 1 Laboratory Construction Programme – 6 week look ahead weeks 25 to 30

A six week look ahead construction programme for the laboratory is included in this report.

Stage 2 Detailed Design to Full Business Case

1:200 user group meetings

Adult and Children's Round 3 are complete and on programme

1:50 process

Approximately 500 No RDS and standard rooms have been issued to the Board for review in readiness for the 1:50 user group meetings due to commence on 14th June

Planning

The LPA are currently preparing the report for committee on the 22 June 2010, which is due to be made public via the councils web site week ending 19th June 2010

Medical Equipment

First draft of equipment list was issued on 29th May for review.

A further iteration will be issued following completion of round 1 of 1:50 user groups in July.

Appendix K

Programme has been issued.

4 Design Development

LABS

Structural, Architectural and M&E to stage 'E' have now been issued.

C&B issued Rev 4 iteration of the equipment schedule (all groups) on Friday 18th June to align with the contract and pick up all comments and errors, discrepancies raised to date, including power loads which remain outstanding. It is being indicated that loads for group 2 and 3 equipment may not be available until early 2011. BCL to review and comment accordingly. The final version of the equipment schedule is still to be finalised.

In parallel to the above, finalisation of Group One equipment list remains outstanding which C&B/BCL are progressing to ensure Stage D to E sign off is completed at the soonest.

Work continues on developing the fire engineering design of the entrance void.

Updating of BREEAM assessment to design Stage E remains outstanding.

Building Control

Building Control has now responded to the stage 2 warrant submission and the Consultants are preparing re-submission to answer their minor points

Planning Conditions

The table below outlines the current position of the planning condition in respect of the Labs. All pre start conditions have now been discharged

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring or continuance	Discharged (applied for)
09/01676/DC	32	9	1	6	18 (4)
Pre Start Condition*	15				15

Other Group Reports

Update Design and Healthy Environment Group

The group is meeting on a regular basis and key members are supporting external contractors to inform the development of the art, architecture, landscape and health proposal from an access, inclusion, patient centered therapeutic design perspective.

Ginkgo as part of Brookfield team has contracted a project manager and two strategy artists to join the team.

The Ginkgo team as part of fact finding has held meetings with Community Engagement Team, clinicians, arts coordinator, Head of Health Improvement and carried out desk based research , attended lectures to inform thinking

Broad outline of the Art and Design strategy envelopes was tabled at the last Design and Healthy Environment Strategy Group held on Monday 14 June.

Group seemed pleased with progress and commented that the first indication of content reflects well Community Engagement findings.

Ginkgo team is on track and hitting milestones.

Adult and Children's

Sign off of all 1:200 user groups has been achieved with 1:50 user groups now underway on programme Reports on area schedules are being prepared following the 1:200 sign off process

Design co-ordination meetings continue with emphasis on below ground services, setting out, and road locations.

Work continues to minimise tree removal noting TPO's and planning approval requirements, with emphasis on retaining the location of the telecommunication mast with tree survey now having been completed.

Ground contamination surveys are ongoing, with demolition phasing being reviewed for statistical analysis further to meetings with the Authorities.

Resolution regarding the substation being situated within car park two is being actively pursued. The programme requirements for the sub –station completion is driving the outcome of the possible options being discussed.

Building Control

Building control have indicated that they will not determine upon some of the fire safety principles that have been set out in the consultants design notes, and that the matter needs to be referred to the Building Standards Division. A warrant application for stage 3 has therefore been submitted as the vehicle by which the appeal can be heard.

A meeting with the Heath Facilities Scotland has been arranged to escalate this issue.

Planning Conditions.

The table below outlines current position of planning conditions in respect of the A & C.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring or continuance	Discharged (applied for)
07/01158/DC	43	29	-5	3	0 (6)
Pre start Conditions	23				0 (6)

Master Plan

The LPA are currently preparing the report for committee on the 22 June 2010, which is due to be made public via the councils web site week ending 19th June 2010

Positive dialogue continues with the planners and consultants. Whilst the planners are reaching acceptance of back of house materials, their continued requirements for high grade natural products to the main entrance elevation onto the arrival zone is hampering finalising the design.

The NHS have advised that no further dialogue with Scottish Water regarding the proposed signalised entrance to the SW site opposite the end of the new road at the junction of Govan Road, will take place for the foreseeable future.

Further meeting in respect of the helipad has taken place with the Authorities for review with the NHS in respect of the submitted report. A favourable response was given by the Authorities and minor alterations to the acoustic report are being undertaken

Energy Centre

Co-ordination work between the consultants continues, including reviews of options for external materials and examination of alternative energy initiatives to meet requirements

Other Group Reports:

Technical Design and Medical Planning Group

Meetings with the users are now underway to review specific project streams.

Fire Safety – meetings to commence mid June 2010

Access Control – Project group review was positive and drawings are being amended to reflect discussions

Imaging – Users group have now been taken through MRI plant replacement issues and are comfortable with the design.

Columns review – The project team group meetings ongoing contemplation of columns has been furthered with confirmation of those locations previously reviewed. Ongoing reviews with particular emphasis in the lower podium specialist areas are being worked upon by the Consultants.

Mock Ups – good work continues with the mock ups being reviewed by the user groups, and feedback to hone design ongoing.

Decontamination is being considered to be brought inside the building; this was noted as being external on the bid.

Design Healthy Environment Strategy Group

The Group has now met 5 times, once formally with the Brookfield team and a schedule of meetings with strategy development milestones agreed.

- Recruitment of Artist capacity for research and development stage to progress 2 themes of work: Therapeutic Environment and Way completed and induction phase is underway.

Progress to Date:

- Outline framework of Arts and Wellbeing strategy agreed and content under development
- Approach to identification, prioritisation and zoning of 'art and wellbeing' enhancements for both internal and external environments agreed
- Engagement approach for both children's and adults discussed – to be written up- workshops with stakeholders planned for end of August.

- Opportunities for public atrium space in Lab development explored with local partnership funded artist residency scheme (BBC Scotland and Culture & Sport Glasgow) to develop Sci-Art focus with external partnership funding. Mortuary/ viewing facility enhancement to be scoped by Ginkgo in conjunction with agreed work plan with additional capacity funded by health improvement. Proposal in development for both areas for inclusion in strategy.
- Meeting with Scottish Arts Council planned

Issues to flag to project team:

- Potential of 'enhancements' for external fundraising will be considered in prioritisation process
- Numbers of issues emerging that require resolution by Design group or other project groups. Minutes will highlight issues specifically for redirection across project teams e.g. approach to Disabled Car parking / Façade/Design of car park 2 impacting on external space for children's playground.
- Initial draft of strategy will be available for consideration by project team mid June

Medical Planning Group

- Adult & Children's

Signed off 1:200 are continue to make good progress. Changes to the schedule of accommodation are being recorded by the consultants and agreed with the NHS with changes produced from round 1 of the user groups being carried forward with the document being finalised at round 3.

Code book area schedules have been reviewed to standard rooms types is being systematically reviewed by the NHS nears completion.

Project standardisation and union schedules have being issued with workshops ongoing to review ADB codes.

Equipment Selection Group

The third meeting of the Equipment Selection Group was held on 12 May 2010 and the following key activities were identified:

- Laboratories Equipment List has now been completed and has been distributed to all parties. ADB codes are being added where known to assist in the preparation of costing.
- The fume cupboards are to be included as Group 2 and the exact quantities are to be confirmed as part of the Stage D to Stage E final reconciliation.
- Adult & Acute Hospitals Equipment List (draft 1) has now been issued by BCL and work has commenced to define
- The 1:50/RDS process will be presented at the next meeting of the group.
- The Group have agreed to create a list of key areas to be monitored closely through the design development including:
 - Catering
 - Aseptic Suite
 - Decontamination
 - Radiology
 - Renal
 - Pharmacy

IT Group

The fourth meeting of the IT Group was held on 03 June 2010 and focused on a presentation of Patient Entertainment System.

- The group was widened to include Adult's and Children's Project managers and lead nurse for the presentation.
- Board to consider opportunities for use of PES to assist in service delivery
- IT Workshop held 11th June 2010 to outline key departments..
- Wireless infrastructure not currently incorporated into Laboratories. Laboratories Group to provide case for any requirement.
- IT Risk Registers to be incorporated into Project Risk Register

5 Construction and Logistics

Logistics/Site Establishment/Enabling Works

- Site logistics is working well. Two main access/exit gates are in operation Gate 2 off Hardgate Road and Gate 5 off Govan road
- Stage 1& 2 offices delivered (39 no.) and fitted out for occupation.
- The haul road off Govan Road (gate 5 to gate 1) is being widened to two carriageways.
- Site car parking spaces are adequate and we are in line with the predicted levels.
- Traffic management and access control has been effectively managed by CUK

Site Establishment

- Office and welfare facilities Stage 1 and 2 are fully functional and complete
- The Board have moved from Hillington and are now established in their offices on the second floor.
- Hoardings and Signage virtually complete.
- Procedures for security, access control and night watching have all been established and guards understand their responsibilities.
- Power to the tower cranes and site accommodation/welfare facilities continue to be off generators. However temporary power cables and substations are in position and Scottish Power have commenced their building work to the main incoming substation
- The two water supplies off the mains, has proved adequate for now, but progress is being made to provide supply from a borehole location
- IT and telephone services are now complete

Stage 2 Works.

- WSP have indicated that additional bore holes are required for contamination site investigation, currently these are all within the site hoarding, although there could be more required at demolition locations, after demolition is complete.
- Two days additional drainage/manhole surveys were completed during the month to supplement the survey completed by Castlebrae. WSP now to determine if they have sufficient information for their purposes.
Brookfield Construction Ltd/WSP is developing construction details, related sequencing and logistical strategy for specific areas of construction.
These include:
 - Linthouse and Jenny's Burn Division
 - Substation Construction
 - New road layout at existing oil tank/VIE/bio chemistry location.
 - Storm and foul connections into existing drainage scheme.
 - Levels and interface at Neo Natal main access road off Govan Road.
 -
- Brookfield Construction Ltd are also gathering and analysing existing service information for stage 3 site footprint. This preparation for demolition and to enable confirmation of the site being clear of services.

Demolition

Brookfield Construction Ltd have been instructed by the Board to go out to tender for the demolition of stage 3 area buildings. BCL/C&B/NHS Board are compiling tender documents, a tender list of demolition sub-contractors has been agreed. It is anticipated that tender documents will be issued to sub-contractors week commencing 21st June 2010 with an onsite start date of week commencing 19th July 2010. BCL are agreeing logistics associated with demolition works with facilities management.

Mock Up

- Construction of the 3nr Mock up rooms were completed to a stage to allow user groups to consider spatial awareness. Feedback from these groups is being discussed between the NHS Board and Brookfield Construction UK Ltd on 16th June 2010. Brookfield Construction Ltd will then continue to fit out the 3 rooms to include Fixture Fittings & Equipment.

6 Laboratory Project

Stent have completed piling operations with last piling rig removed from the basement on the 8th June 2010. Whilst this is later than anticipated post piling progress has been good and it is anticipated that the delayed handover can be mitigated to tie in to 1st floor slab works.

Pile testing has been successfully completed to both the basement and pod test piles.

Excavation works to the basement have commenced to core 5 and pile caps to the north.

Excavation works are complete to the water tank area which has released the first area of sheet piling for removal to the south elevation. A number of sheet piles have now been removed successfully with an anticipated start to the southern pile caps of 21st June 2010

Works are ongoing to Core areas 1 and 4 which have progressed sufficiently to take them off the critical path.

Tunnels are progressing well with base slabs complete to zones 2 and 3, walls ongoing, and first roof pour is anticipated for w/c 28th June 2010

The Core 2 concrete base is complete allowing tunnel and water tank pile cap and slab operations to continue through to mortuary area.

TC1 crane was erected successfully on the weekend of the 22nd and 23rd May 2010.

As a result of a meeting to review the Helicopter management plan, it has been agreed that laying down of lifting operations is no longer required on notification of an incoming helicopter. Documentation has now been amended and agreed to this effect.

Forthcoming Works:

Foundation works to continue to the basement with drainage and ground slab works to commence from the end of June

Core 3 excavation to commence and base poured in conjunction with pod area foundation and ground beams

Tunnel walls and roof slab to complete within zone 3 allowing drainage and ground slab works to commence in zone 3

Cores 2 and 5 walls to commence,

Core 4 and 1 walls to continue to completion

Concrete works to tunnel base slab to commence to zone 1 and zone 4 with wall and roof slabs commencing directly afterward

Columns and walls to 1st floor to commence within zone 3 and pod areas.

7 Commercial

7.1 Budget v Cost Plan – TP/MP

Adult & Children's Hospitals: User Group consultations and design development have not identified any items outwith those noted in Early Warnings impacting on the Target Price.



Laboratories: Stage D to E cost implications all but agreed, final close out and agreement on Group 1 equipment required.

There has been 6 Nr Compensation Event Notices issued, ongoing finalisation of costs to close out CE and formally adjust Target Price.

Contract Award Target Price	£575,111,382
Compensation Event Notices Issued – formally Closed Out	
Compensation Event Notices Issued – Estimated Value	£850,000
Current Estimated Contract Target Price	£575,961,382

7.2 Early Warning Notices

A regular weekly meeting has been organised and taking place to review EWN's and agree actions / close out. EWN status and actions are noted in table below:


<div>   </div>					
Sypro ID	NHS Ref No	Item	Date Raised	Status	Date Completed
6715	BCL-EW-001	Brookfield Value Engineering Items	13 January 2010	Value impact work in progress Focus on Tunnel Arrangement – Pack received by Board 01/02/2010	10/02/2010 (PM PMI 003)
6716	BCL-EW-002	Mobile Phone Mast Location	8 th February 2010	Board awaiting agreement from SW to proposed land acquisition.	

6717	BCL-EW-003	Utilities (1MVA) Power	10 th February 2010	Part of Scottish Power Quotation	13/04/2010
6718	BCL-EW-004	Utilities (11kv Breaker)	10 Feb 2010	Part of Scottish Power Quotation	13/04/2010
6719	BCL-EW-005	Utilities (Moving 11KV Circuit Breakers) – Hospitals	17 th February 2010	Part of Scottish Power Quotation	13/04/2010
6720	BCL-EW-006	Utilities (Moving 11KV Circuit Breakers) – Labs	17 th February 2010	Part of Scottish Power Quotation	13/04/2010
6721	BCL-EW-007	Discovery of Foundations and Brickwork (Labs Site)	3 rd March 2010	Dunne's have removed foundations and brickwork.	8/04/2010 (PMI/General/013)
6722	BCL-EW-008	Planning Issues (Labs Render)	4 th March 2010	Sample of finishes and alternative being provided to GCC GCC indicated that the Chinese Granite sample would be acceptable. Confirmatory letter awaited from Blair Greenock	
6723	BCL-EW-009	Planning Issues (Adult and Children's Render)	5 th March 2010	Sample of finishes and alternative being provided to GCC. Options to be provided to Board team for approval.	
6724	BCL-EW-010	Repositioning of Labs Building	8 th March 2010	Cross reference with PMI / General / 008 and PMI / General / 009	10 th March 2010 (PMI/General/009)
6725	BCL-EW-011	Water Main within Basement Footprint	9 th March 2010	Water main being diverted 13/03/2010	08/04/2010 (PMI/General/014)
6726	BCL-EW-012	Access Road serving the laboratories	19 th March 2010	Request for instruction to extend the access road. NHS confirmed that this work will not be undertaken post FBC. This EW to be closed out	10 th June 2010

Sypro ID	NHS Ref No.	Item	Date Raised	Status	Date Completed
6727	BCL-EW-013	Laboratories Tunnel	29 th March 2010	Request to construct the Labs tunnel beyond the extents of the new access road. NHS confirmed that this work will not be undertaken post FBC. This EW to be closed out	10 th June 2010
6728	BCL-EW-014	Increase in Building Control Fees	14 th April 2010	BCL to provide updated cost information.	

				BCL to raise a separate EW re legislation changes	
6729	BCL-EW-015	Junctions at Govan Road	14 th April 2010	NHS confirmed that SW have advised that they are unwilling to alter their junctions at Govan Road. WSP to be asked if GCC can serve an left turn only enforcement notice on GCC.	
6730	BCL-EW-016	Kitchen Relocation from level 3 to Basement	14 th April 2010	BCL to provide M&E detail/costs	
6731	BCL-EW-017	Compatibility of the existing Kitchen cart/trolleys and the Proposed AGV Robotic System	15 th April 2010	BCL to confirm availability of mock-up cart. NHS to review mock-up cart and advise BCL on acceptability	
6732	BCL-EW-018	Service drain to the side of the Laboratories Building	21 st April 2010	Board to review costs and advise BCL on way forward	
6733	BCL-EW-019	Planning application for Scottish Water Land	21 st April 2010	BCL to provided reasons for the increase in proposed land-take. NHS to comment on options re swales	
6734	BCL-EW-020	Contamination within Water System	21 st April 2010	Contamination issue dealt with. NHS to confirm ownership of drain. BCL to confirm if further access/disturbance of this drain is required.	
6735	BCL-EW-021	Discovery of Flammable Gas within Ground in Basement	7 th May 2010	BCL to check the SI Report re ground gas information	
6958	BCL-EW-022	Service diversion of street lights on site	21 st May 2010	BCL to provide information on deadline for this work as may be done as part of demolitions work.	
6959	BCL-EW-023	Design development of the Substation within the car park resulting in a reduction of available parking space.	21 st May 2010	PMG agreed this EW should be closed off	25/05/2010
6960	BCL-EW-024	Roof top Helipad	21 st May 2010	NHS confirmed that GCC Planners satisfied with distance of Helipad from local housing. The EW to be closed off.	

6961	BCL-EW-025	Car Park 1 Conflict with Masterplan	21 st May 2010	NHS confirmed no conflict. EW to be closed off.	10/06/2010
6967	BCL-EW-026	External Walls: Copper Cladding to Columns	27 th May 2010	BCL requested to provide cost information	
6968	BCL-EW-027	Swisslog Robotics (stage 3)	27 th May 2010	DS to review what is required i.e. addition of an extra bay. ER's stipulated no of carts therefore this is part of the defined costs - DS to confirm	
6972	BCL-EW-028	Moveable Vertical Fins to Laboratory Pod	2 nd June 2010	Requesting PMI accepting BCL proposal and issue CEN under Clause 63.11 BCL to provide modeling information re moveable fins v's static fins. Raised as a value engineering item	

					
Sypro ID	NHS Ref No	Item	Date Raised	Status	Date Completed
6699	NHS-EW-001	Stage D to E Reconciliation	14 January 2010	Work in progress	
6701	NHS-EW-002	Testing of Building Board Material on Site	21 January 2010	Complete - CE 001 Issued	11/03/2010
6704	NHS-EW-003	Japanese Knotweed Survey	21 January 2010	Complete- CE 002 issued	11/03/2010
6705	NHS-EW-004	Excavated Building Materials/Spoil	21 January 2010	Complete PMI 004 issued CE 003 issued	11/03/2010
6706	NHS-EW-005	Live HV Cable – SGH Site	27 January 2010	Complete - disconnect live HV cable	7/02/2010
6952	NHS-EW-006	Borehole water	15 February 2010	BCL undertaking trial borehole. BCL requested PMI. NHS Team to discuss EW and respond to BCL	
6953	NHS-EW-	Adult Hospital – Haemato-Oncology Area	12 th March 2010	Brookfield advised of change to requirements	12/03/2010

	007			Board to issue PMI and request costs then close out this EW	
6954	NHS-EW-008	Oncology Ward - Specialist ventilation	16th April 2010	BCL advised of omission of specialist ventilation from 4 (nr) bedrooms and 4 (nr) day rooms in Oncology Ward Board to issue PMI and request costs then close out this EW	
	NHS-EW-009	REF NO – NOT YET USED			
6955	NHS-EW-010	Site Electrical Load	16th April 2010	BCL advised of reduced electrical load from 21.5 MVA to 18 MVA Board to issue PMI and request costs then close out this EW. BCL to liaise with Darren Pike.	
6956	NHS-EW-011	Patient Hoists and Structural Support	16th April 2010	BCL advised of omission of 100 (nr) patient hoist including structural support from wards. Response from BCL awaited by Board. Board to issue PMI and request costs then close out this EW.	
	NHS-EW-012	REF NO – NOT YET USED			
6957	NHS-EW-013	HV Generators	16th April 2010	BCL advised of Change of 2 (nr) 2.5 MVA HV generators to 2 (nr) 2.5 MVA LV Generators. BCL advised detailed design work is ongoing.	

7.3 Project Managers Instructions


The following Project Manager's Instructions have been submitted as at 10/06/10:-

Sypro ID	NHS Ref No	Item	Date Issued	Date Signed	Actions
323	MB/PM/General/001	Stage 1 Laboratories - Start on Site Date	27th January 2010	27th January 2010	Closed out
324	MB/PMI/General/002	Revision to Contract Assessment Dates	8th February 2010.	8th February 2010.	Closed out
325	LAB / PM / General / 003	Laboratory Block – Tunnel Reconfiguration	10th February 2010	10th February 2010	Ongoing assessment as part of Stage d to e reconciliation
326	PMI / General / 004	Excavated Materials / Spoil	23rd February 2010	23rd February 2010	Closed out
327	PMI / General / 005	Laboratory Project - Future Expansion	23rd February 2010	23rd February 2010	Ongoing assessment as part of Stage d to e reconciliation
328	PMI / General / 006	Laboratory Project - Basement Floor Level	26th February 2010	26th February 2010	Ongoing assessment as part of Stage d to e reconciliation
329	PMI / General / 007	Laboratory Project - Ventilation to PM tables	26th February 2010	26th February 2010	Ongoing assessment as part of Stage d to e reconciliation
330	PMI / General / 008	Laboratory - Stage E Civil & Structural Engineering Drawings	9th March 2010	9th March 2010	Ongoing assessment as part of Stage d to e reconciliation
331	PMI / General / 009	Laboratory Project - Relocation of Footprint	10th March 2010	10th March 2010	Closed out
332	PMI / General / 010	Laboratory project – Architectural drawings and NBS Specification	23 rd March 2010	23 rd March 2010	Ongoing assessment as part of Stage d to e reconciliation. AL 70 series drawings to be confirmed
333	PMI / General / 011	Laboratory Block – VE Review 1	25 th March 2010	25 th March 2010	Ongoing assessment as part of Stage d to e reconciliation M&E updated drawings to be provided
334	PMI / General / 012	AGV System - Cart Washer	25 th March 2010	25 th March 2010	Cart Washer not required by Board. Quotation requested via PMI. CE notified by BCL
335	PMI / General / 013	Laboratory Project – Removal of Foundation from Old Rec Pavillion	8 th April 2010	8 th April 2010	BCL to submit CE
336	PMI / General / 014	Laboratory Project – Diversion of Water Main	8 th April 2010	8 th April 2010	BCL to provide quotation
337	PMI / General / 015	Removal of Japanese Knotweed (Bunded Area) Off Site	28 th April 2010	28 th April 2010	Closed out 10/06/2010 CE raised by BCL (CE 002)
351	PMI / General / 016	Laboratory - Stage E - Mechanical and Electrical	17 th May 2010	17 th May 2010	Confirmation of drawing hierarchy as at 17 th May

		Drawings and Specification			2010
356	PMI / General / 017	Laboratory Block – Mortuary (Basement Level -1) Room L-1/B/027	31 st May 2010	31 st May 2010	CE notified by BCL
	PMI / General / 018				

7.4 Compensation Events

The following Compensation Event Notices have been submitted as at 20/05/2010:-

				
Sypro ID No	NHS Ref No	Item	Date Issued	Date Signed
4294	CE 001	Removal of Asbestos Building Board	10th March 2010	10th March 2010
4295	CE 002	Removal of Japanese Knotweed	10th March 2010	10th March 2010
4296	CE 003	Removal of Excess Spoil	10th March 2010	10th March 2010
4451	CE 004	Water Main within Basement Footprint		
4501	CE 005	PMI / General / 017 - Laboratory Block - Mortuary (Basement Level -1) Room L-1/B/027		
4528	CE 006	AGV System - Cart Washer Removal		

7.4 Monthly Payments

Assessment nr 4 was processed and issued 17th May 2010 as follows:-

Stage 1	£	5,284,439.00
Stage 2	£	4,599,501.00
Stage 3	£	
Stage 3A	£	
PSCP Work Done to Date	£	9,883,940.00
Deduct retention free amount	£	0.00
Sub total	£	9,883,940.00
Retention	£	-724,172.00
Sub total	£	9,159,768.00
Deduct previous payments	£	6,042,494.00
Sub total	£	3,117,274.00
Add 17.50% on £ 3117274	£	545,522.95
Amount due	£	3,662,796.95

Adjustment was made to BCL application to reflect on gping finalisation of Appendix K programme and visibility of design progress / deliverables.

Assessment Nr 5 is under review, and final certificate agreed to be held over to beginning 21/6/10 to allow for confirmation of Key Design Appointments & Collateral Warranties to mitigate requirement to deduct "one quarter of work done to date" as conclusion of key appointments and warranties remain outstanding. BCLK confirm Nightingale Associates (Architect) appointment and warranties executed Friday 18th July 2010. WSP (structural), ZBP (services) and Gillespies (Landscaping) are close to completion and execution expected shortly.

7.5 Cash Flow

Revised Stage 1 & 2 cashflows were received 11th June 2010. An approx increased of £1.7m spend for 2010/2011 for Stage 1 from last forecast was noted. This has arisen from advance payments being highlighted for works outwith the “working area”. The contract as agreed did not identify provision for payments for materials, plant & equipment outwith the “working area”. BCL are to make a proposal to NHS GG&C to change the “working area”. At present the 11th June 2010 cashflows are not approved and previous submissions remain in place.

It is critical that spend is monitored closely and any movements highlighted as soon as possible, as changes affect NHS GG&C internal capital planning. BCL to liaise with C&B in advance of issuing cashflows in the first instance.

7.6 Risk Review and Management

A review of both Contractor and Board Risk Registers was undertaken, Stage 1 risks and forecast drawdown of allowances to be monitored to support cashflow updates.

Board Risks Triggered are:-

Risk ID	Description	Occurrence
13	Unforeseen Site Conditions	Site topography changed since Topographical Survey undertaken as a result of spoil dumping There is ongoing discussion regards the discovery of isolated pocket of ground gas (refer EWN BCL 21)
15	Diversion of unforeseen services	Water main discovered under Laboratory building footprint
17	Asbestos	Asbestos board discovered on Laboratory site
20	Japanese Knotweed	Identification and treatment of Japanese Knotweed

8 Commissioning

Nothing to report this month as Commissioning Group meetings have not convened yet.

9.0 Enabling and Related Site Infrastructure Works under Board Control

Scottish Water Land

A final Entrance Road layout has been completed and submitted to Scottish Water. Scottish Water have formally stated that they will allow the Board to purchase the required land to allow this layout to be completed subject to an agreed price and agreed burden's. The District Valuer has been instructed to assess the value and it is hoped the report will be received by early July to allow this to move forward with an agreed offer.

Extensive Consultation and design work has resulted in the agreed solution not requiring the relocation of the Telecommunications Mast.

Scottish Ambulance Service

Leverndale – Tenders for the Construction of the New Ambulance Station and Car Parking have been issued and work is expected to start in early August 2010. Planning application submitted and response awaited. Contract completion date is late October 2010.

Johnstone Hospital –Internal Services Refurbishment works for the Special Operations and Resiliency Unit are complete.

General – Heads of Term's and Lease/Purchase Agreement's are ongoing.

Helicopter and Construction Works Interface

The Project Team met with Brookfield on 28th May 2010 to review the HMP lifting restrictions and the impact (if any) of flight arrivals and departures. It was agreed that lifting operations will now continue (previously all operations stopped) after the **Crane Co-ordinator** assesses the potential risk associated with the specific crane operation (this is similar to the assessment carried out to allow for different wind conditions). Brookfield agreed that all records of helicopter activity will continue to be monitored and impacts reviewed regularly.

The Project Team have received a draft Notification Procedure for incorporation to the HMP from Barr for the MSCP1 Project. This has been reviewed and sent back to Barr for revision.

Demolition Works

The Project team has met with Brookfield on a couple of occasions to agree the scope of work and review the existing services. SGH Estates have agreed to provide a package with all the relevant information and are producing a programme for the isolations/disconnections. A draft programme for all the works has been tabled and is being reviewed as it is unsuitable to carry out the Type 3 Asbestos surveys in the buildings while they are still occupied.

Enviraz has priced the asbestos surveys but is revisiting due to the Asbestos tiles in the Library needing specialist removal. Also awaited is the price for the survey of the ducts running through the site. These are currently full of water and require pumping out and the leak identified before the survey can take place. Enviraz is also pricing the removal and disposal of the contaminated water.

It was identified that the Helipad landing lights will require diverting as they currently are fed from the Management Annexe. Estates have been tasked with identifying a solution. The Nursery supply runs through the site and it was agreed that a new supply would be identified by estates, possibly from the PDRU.

Facilities have now confirmed that the Management Annex will now not be vacant until end of July 2010. The programme has been revised to allow for this. This should not affect the end date – allowing for the site to be handed over to Brookfield as previously agreed, once FBC is achieved. The other moves are still as planned; Residencies to be vacated by end of June along with the Walton and Library, the Catering facilities will remain in operation until end of August.

The scope of works has allowed for the retaining of as many car parking spaces (if not all) within the demolition site for the duration of the works.

Bat surveys are complete this week and the Project Team are awaiting the official report – Wild Surveys have said they have not found any bats to date.

A draft tender list was produced by Brookfield which has been signed off by the Project Team. Brookfield confirmed that all proposed tenderers are CHAS Compliant; which covers their initial criteria for H&S competence, all are members of the NFDC (National Federation of Demolition Contractors) and most are locally based. Brookfield have also carried out an initial financial check and given the nature of the works, all are initially considered acceptable.

The Scope of works shall be completed by Friday 18th June 2010, allowing Brookfield to go out to tender early next week.

10 Other Matters

- Car Parks, Education Centre, Ronald Macdonald House

Car Park 1

Works have commenced on site, some initial issues on wheel washing and debris on roads have been addressed with the assistance of Brookfield's road sweeper. Project interface issues continue to be addressed at the weekly Site Interface meetings which are attended by Barr's site manager.

Webcam

Images from the webcam mounted on the Brookfield site accommodation are now being posted on the Board's web site. The direct link to the page is; http://www.nhsqgc.org.uk/content/default.asp?page=s1122_3

Community Engagement

Monthly meetings continue to be held with BCL, CE Partners/NHS Board and BCL key supply chain partners. Last meeting held 7th June 2010.

Generally good progress is being made on the CE implementation of the strategy.

New Entrants recruitment is 6% of the 10% target. This figure fluctuates as the project progresses due to the various trades being procured.

Brookfield's project website is now live www.nsgoproject.com and serves as an e-portal for individuals, SME's and SE's to show their interest and it allow them to submit their details. The website has links to GSWRA/GCC and CEIS.

Brookfield have attended and presented at several procurement events (Glasgow South West Business Club, GCC SDP programme and will be presenting at a Meet the Buyer event on 22nd June organised by GSWRA..

Brookfield sponsored a local 5 a side schools football competition in Govan and also in conjunction with the NHS Board attended the Govan Fair with a suitably decorated float for the occasion. Brookfield also took at an full page advertisement in the Govan Fair brochure to highlight the project and contact details for those interested to make contact.

Brookfield/NHS Board met with GCC regarding the 2012 website with access to over 10,000 companies. BCL reviewing potential use of 2012 website but have made it clear to GCC that branding of hospital project is a priority to avoid the NSGH project being lost amongst the GCC 2012 website.

Brookfield have also held meetings with Cardonald College and the Linthouse Housing Association to discuss a couple of opportunities to get involved.

Brookfield and NHS Comms Team also met to discuss branding and promotion of the draft communications strategy.

Union and other 3rd Parties

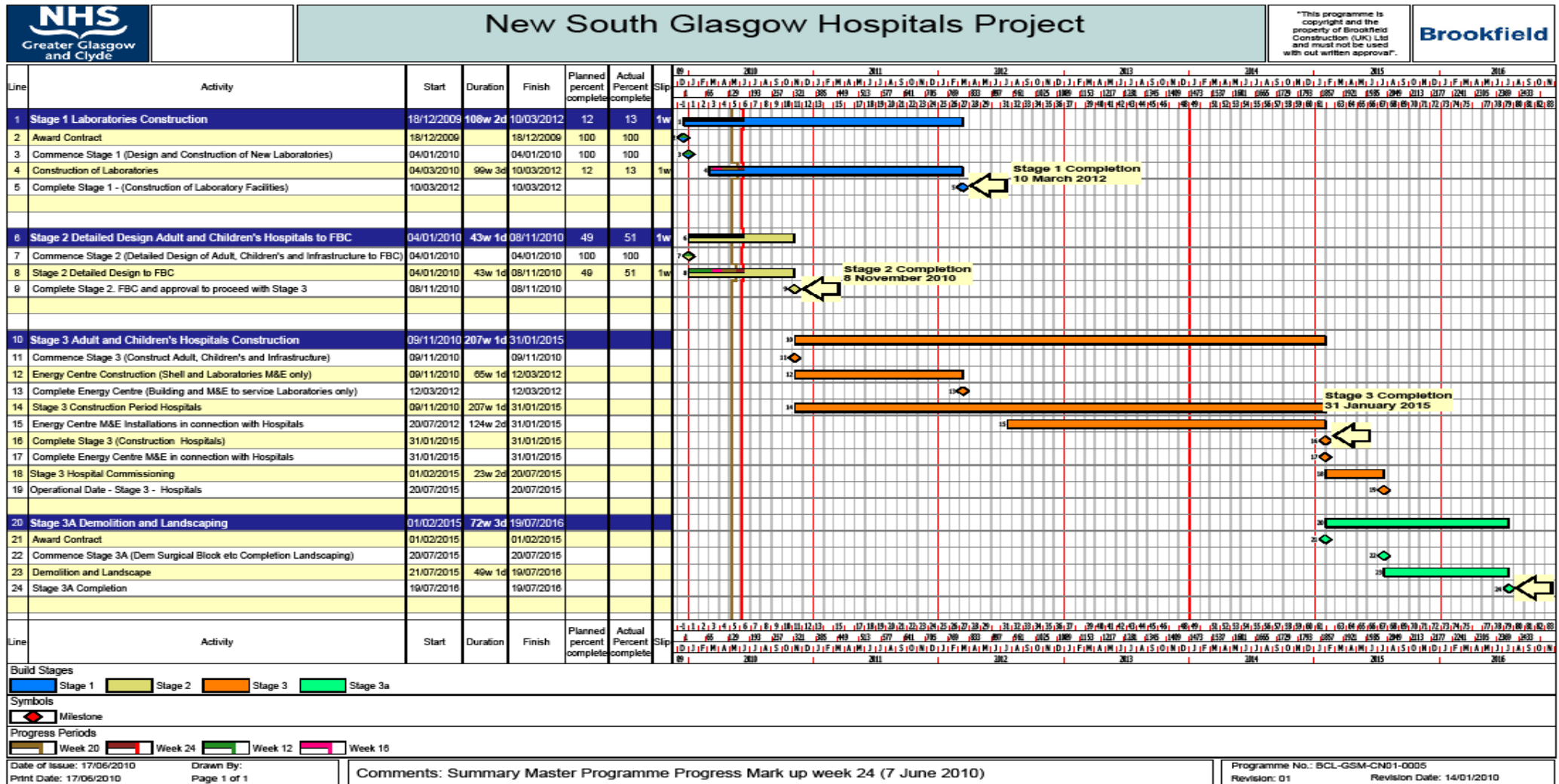
Alan Keeley met with Joe McLaren of UCATT on Thursday 15th April 2010. This was an informal meeting although Joe McLaren made it clear that he expects BCL to have a full time Union Convenor on site and they will ensure **Working Rule Agreement**, pay rates with labour employed directly by us and subcontractors other than some of the most specialist trades.

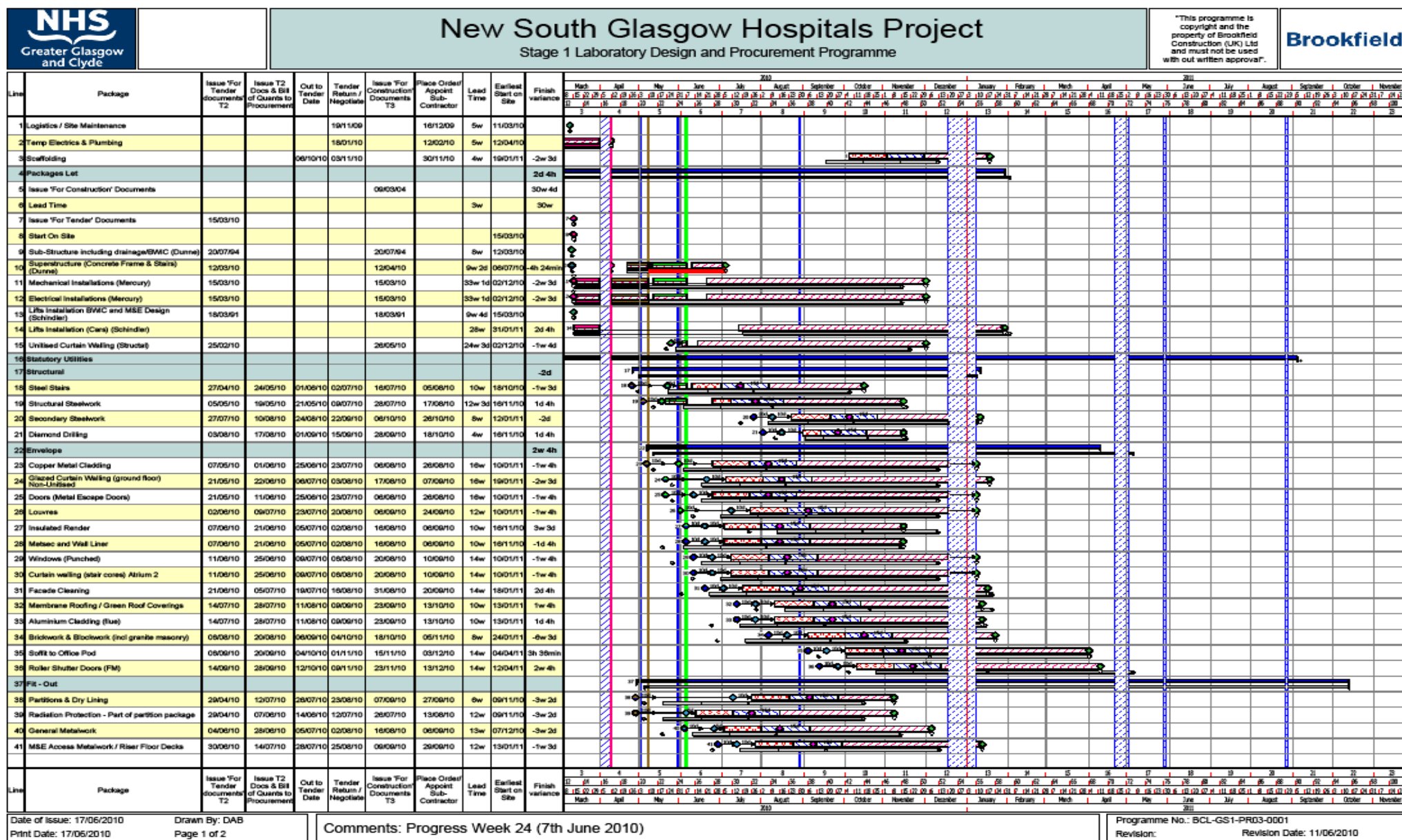
Staff

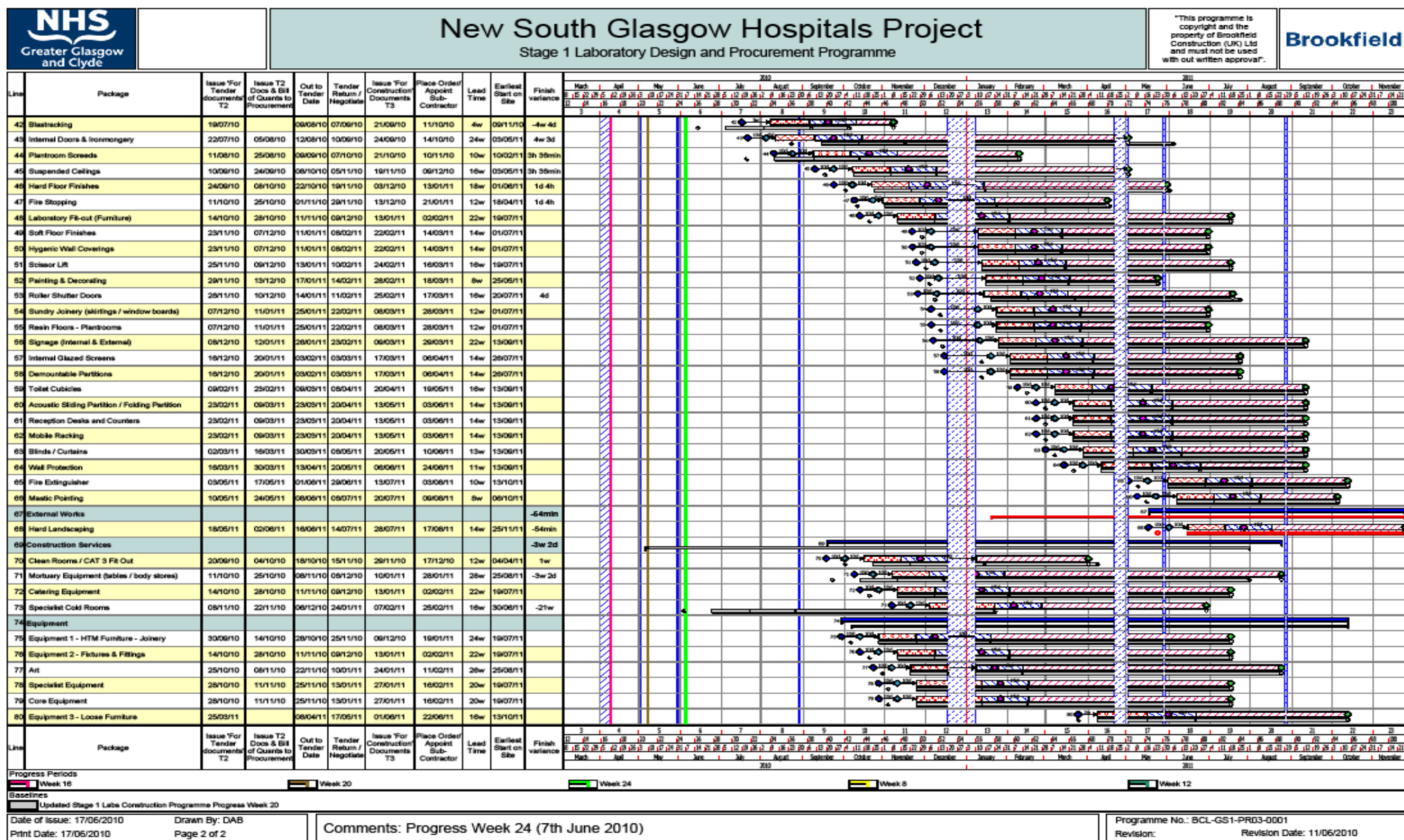
- Pauline Birrell joined BCL on the 1st June 2010 as the Document Controller
- Danielle Stirling joined BCL on the 14th June 2010 as an Administrator
- Michael Edwards undergraduate studying Civel/Struc Eng is on Work Experience with BCL until August 2010.

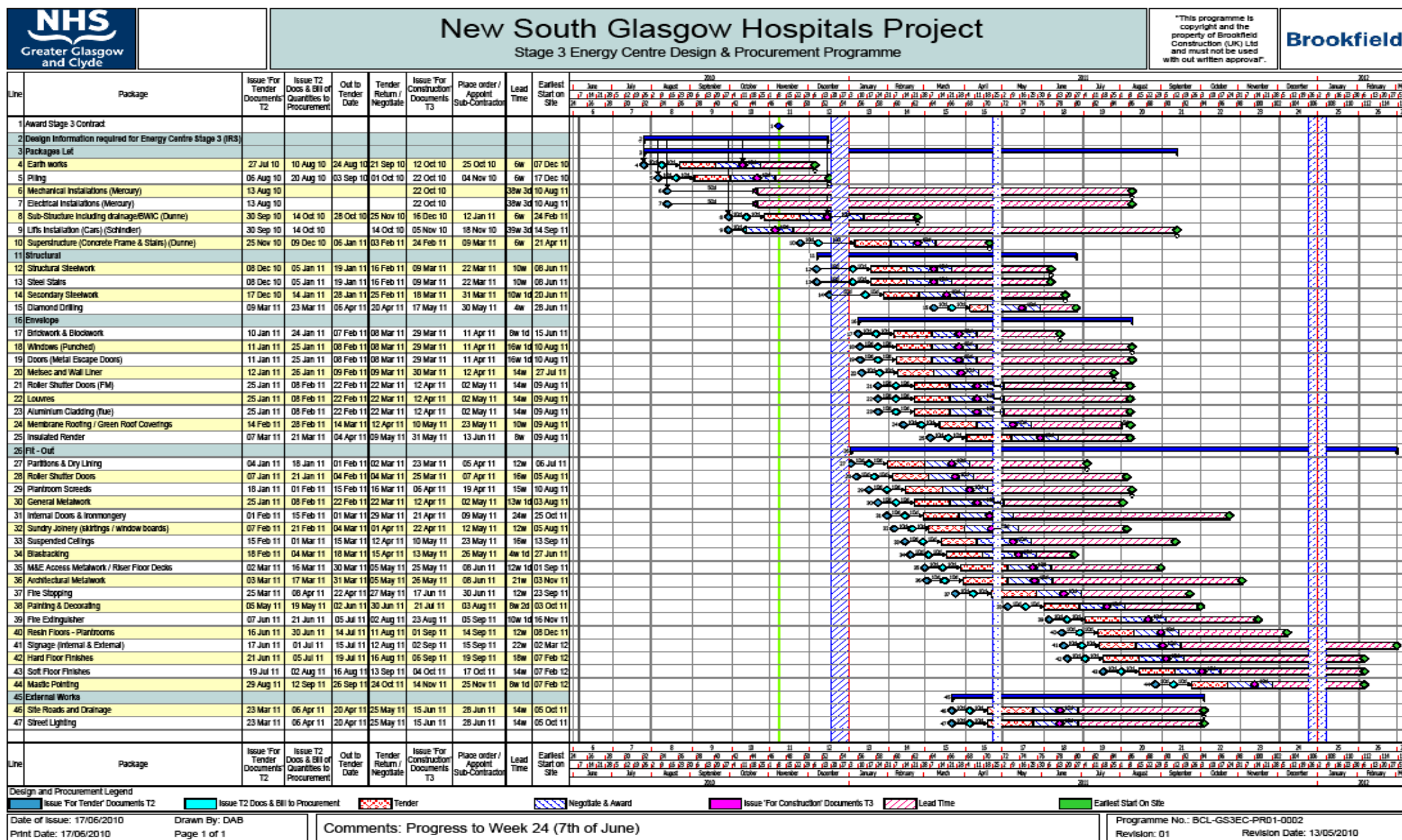
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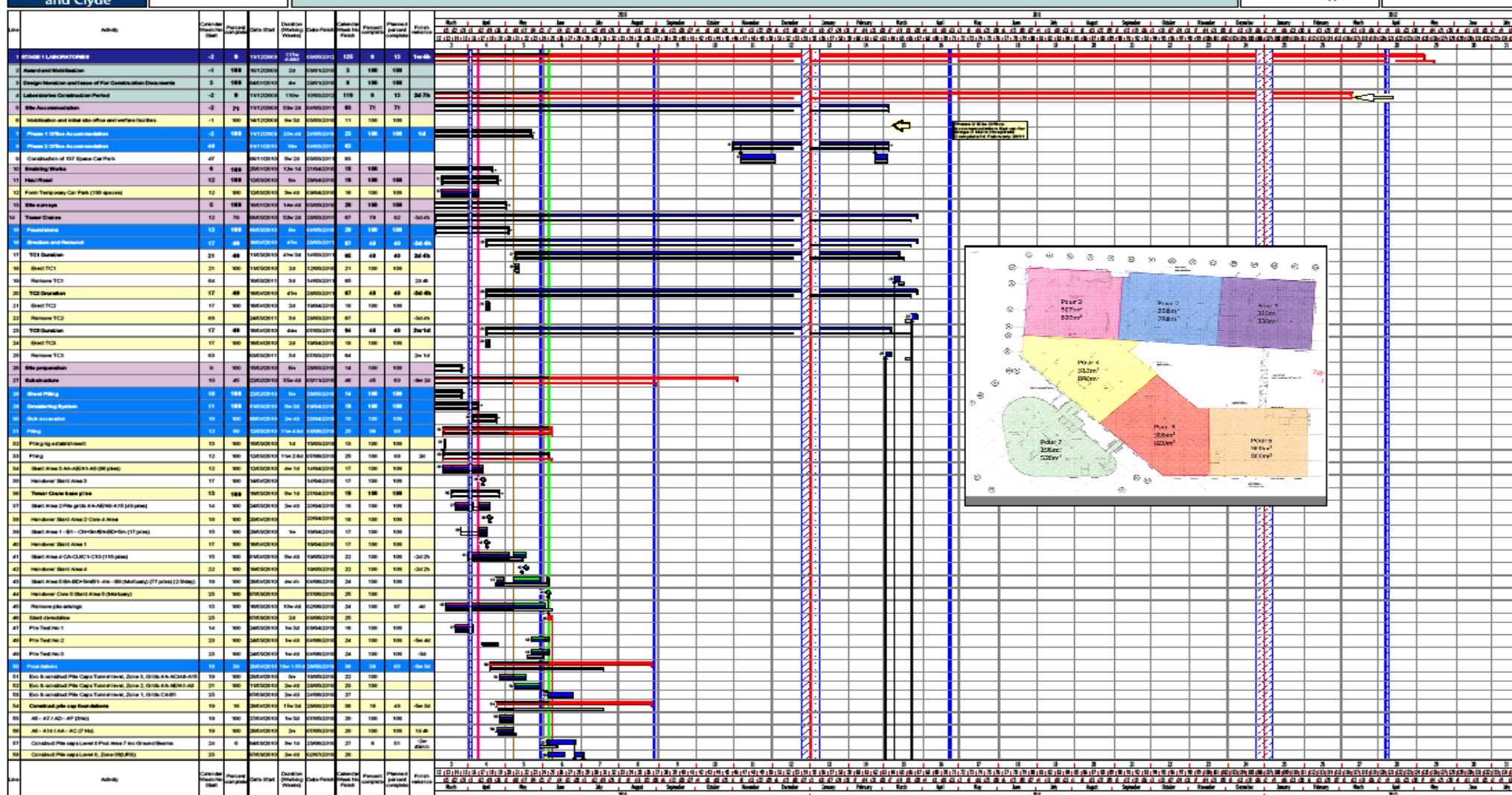
Marked up Programmes











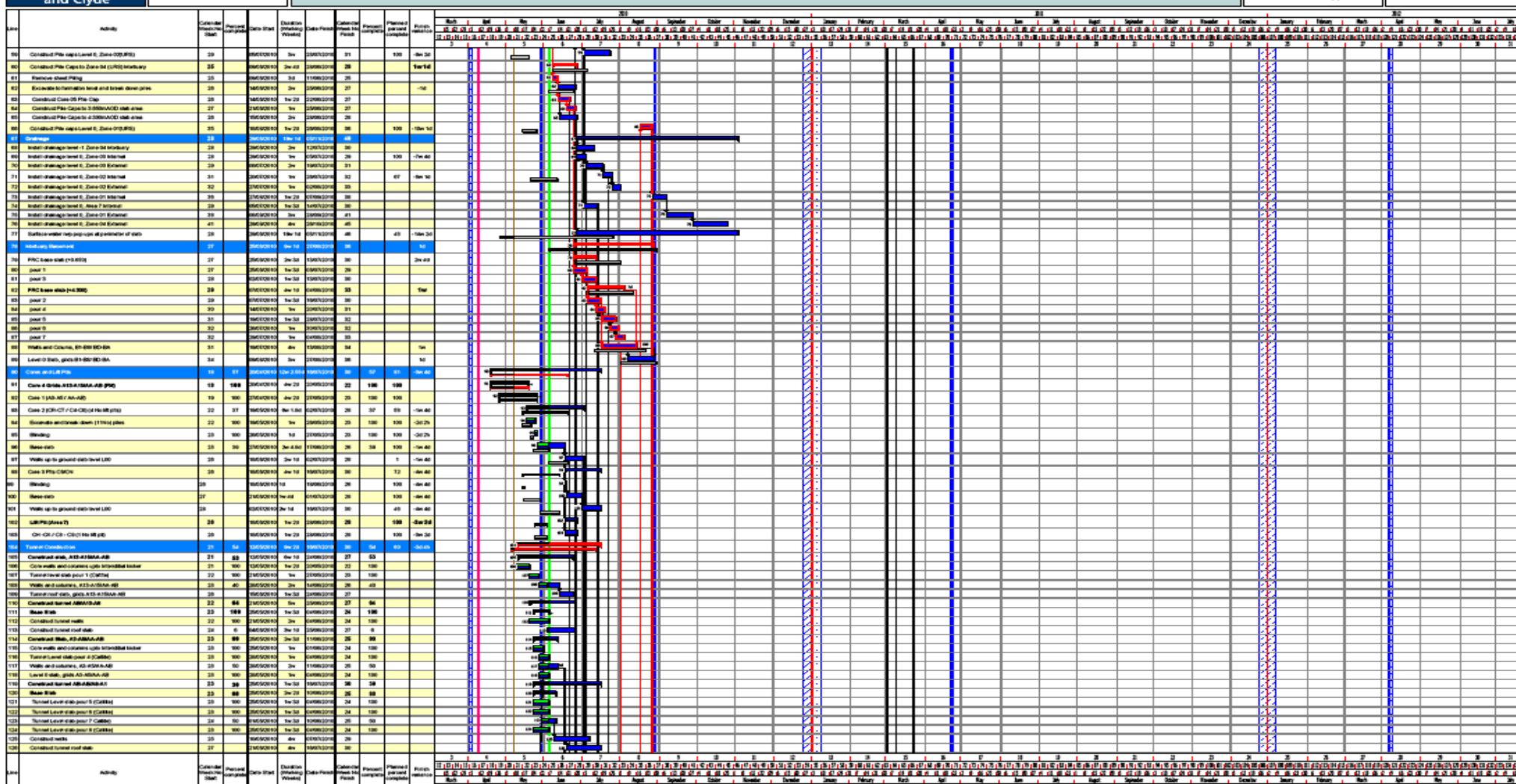
Revision Date: 11/06/2010

New South Glasgow Hospitals Project

NEC Updated Stage 1 laboratory Construction programme

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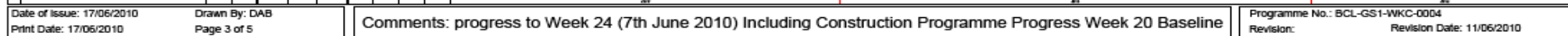
Date of Issue: 17/06/2010
Print Date: 17/06/2010

Drawn By: DAB
Page 2 of 5

Comments: progress to Week 24 (7th June 2010) Including Construction Programme Progress Week 20 Baseline

Programme No.: BCL-GS1-WKC-0004
Revision: Revision Date: 11/06/2010

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Date of Issue: 17/06/2010 Print Date: 17/06/2010	Drawn By: DAB Page 4 of 5	Comments: progress to Week 24 (7th June 2010) Including Construction Programme Progress Week 20 Baseline	Programme No.: BCL-GS1-WKC-0004 Revision: Revision Date: 11/06/2010
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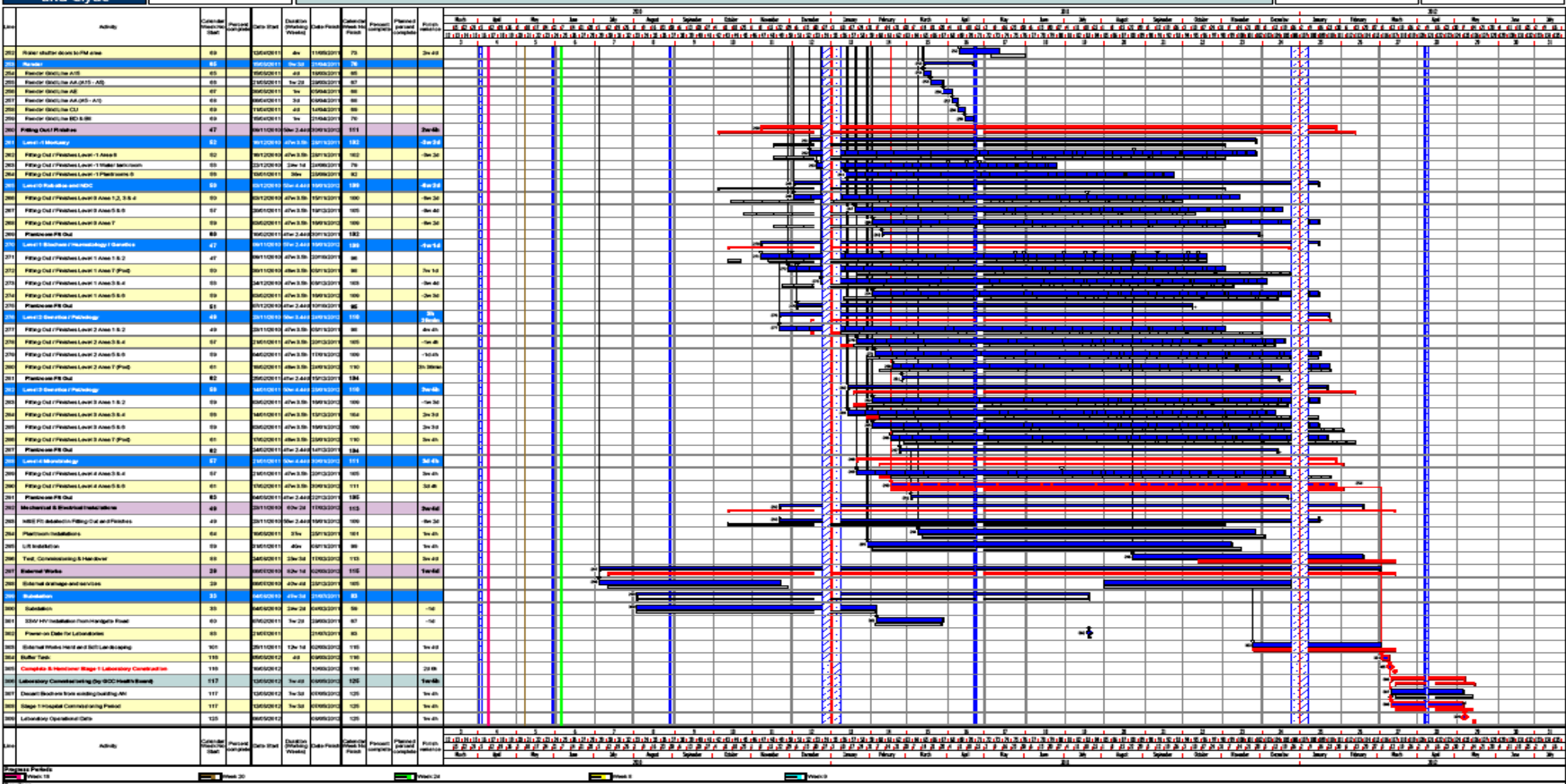


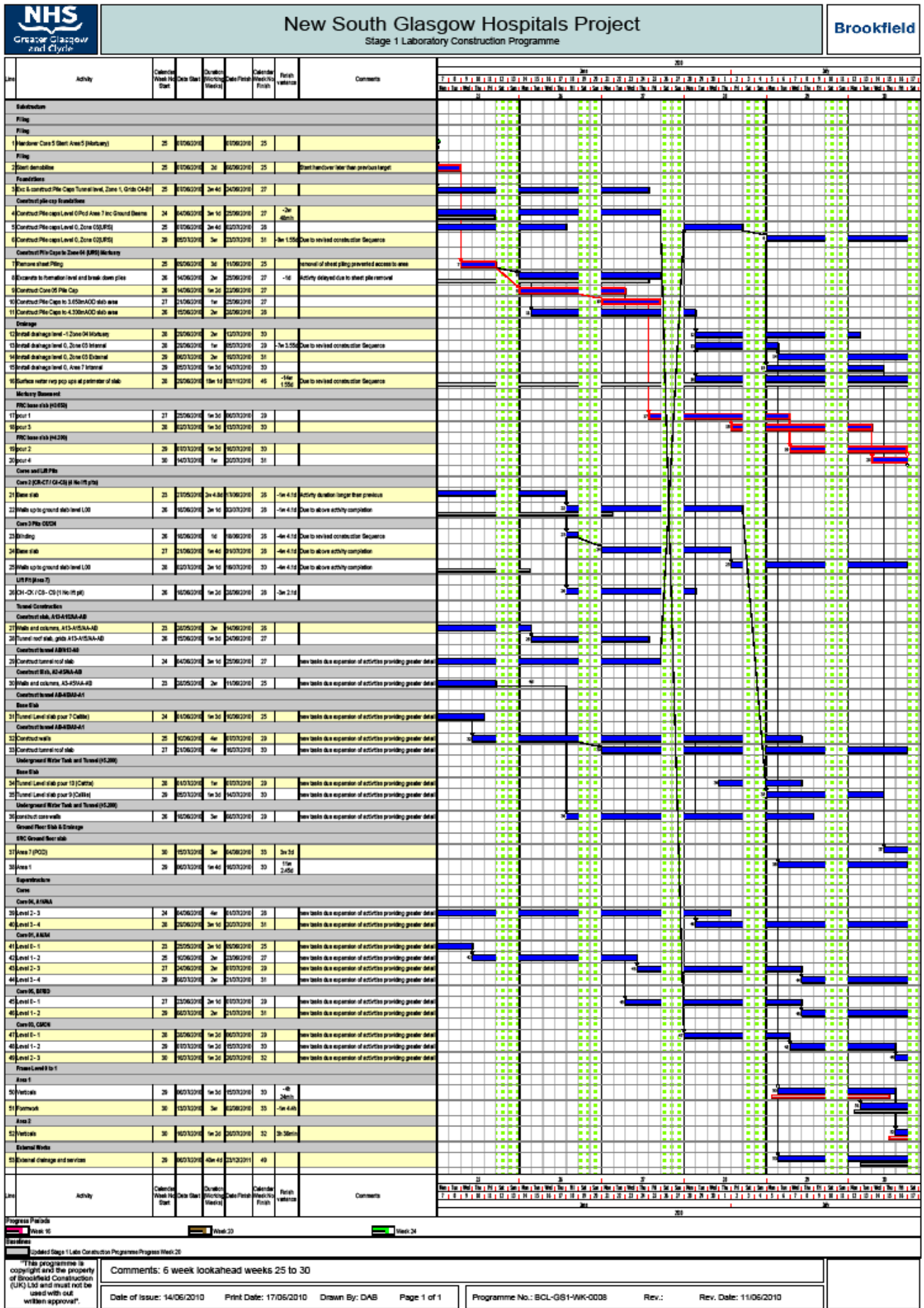
New South Glasgow Hospitals Project

NEC Updated Stage 1 laboratory Construction programme

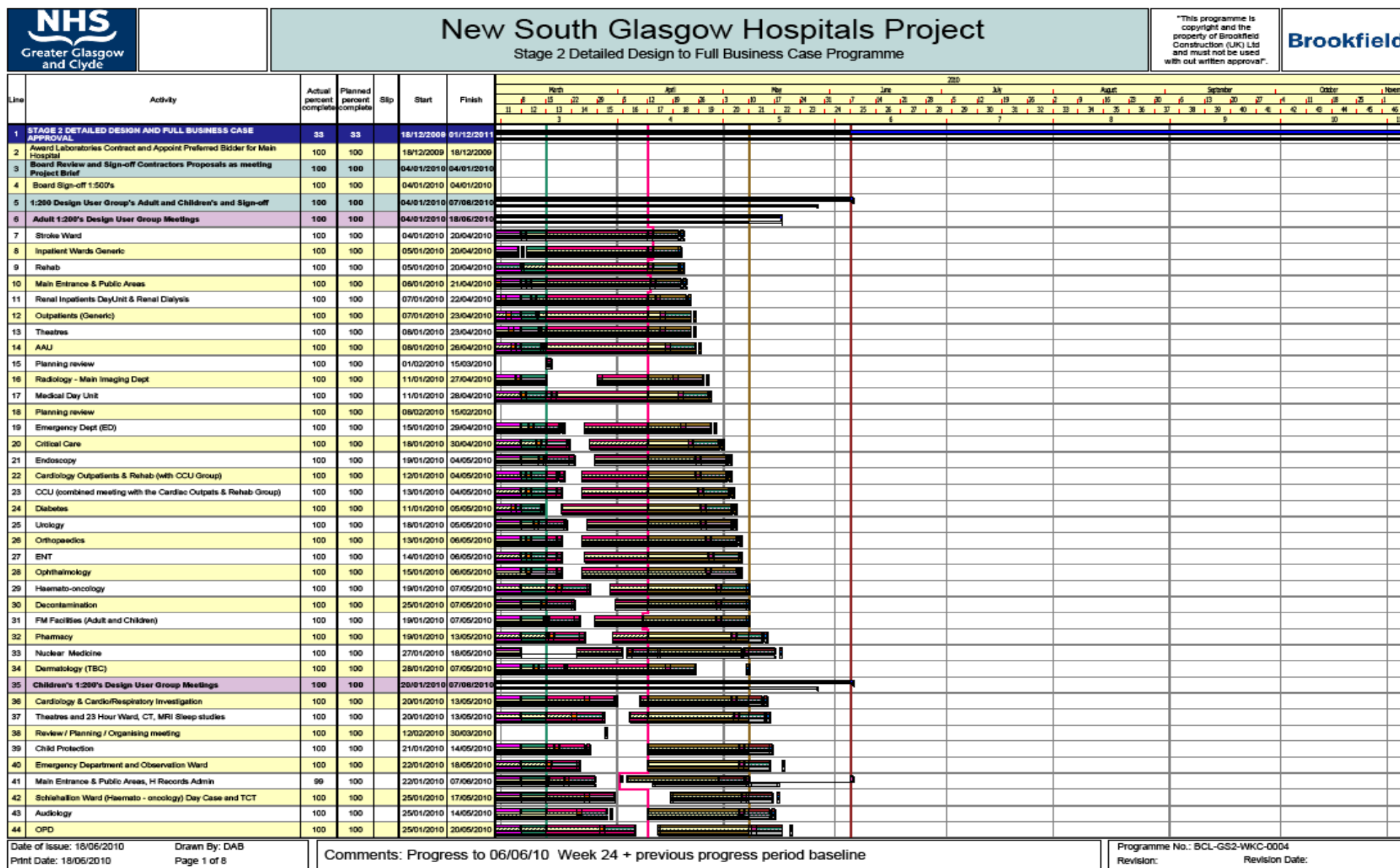
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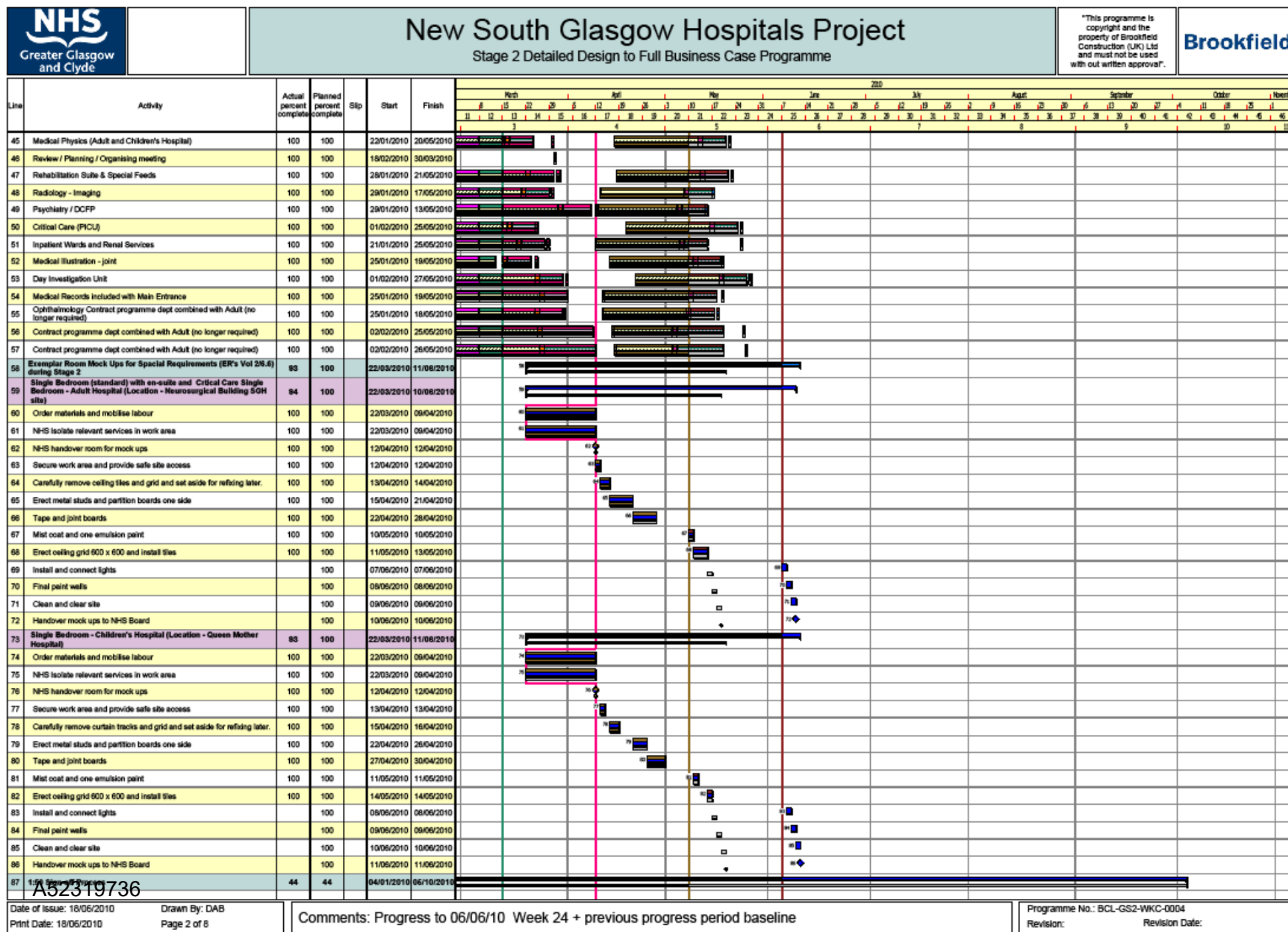
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New South Glasgow Hospitals Project

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Comments: Progress to 06/06/10 Week 24 + previous progress period baseline

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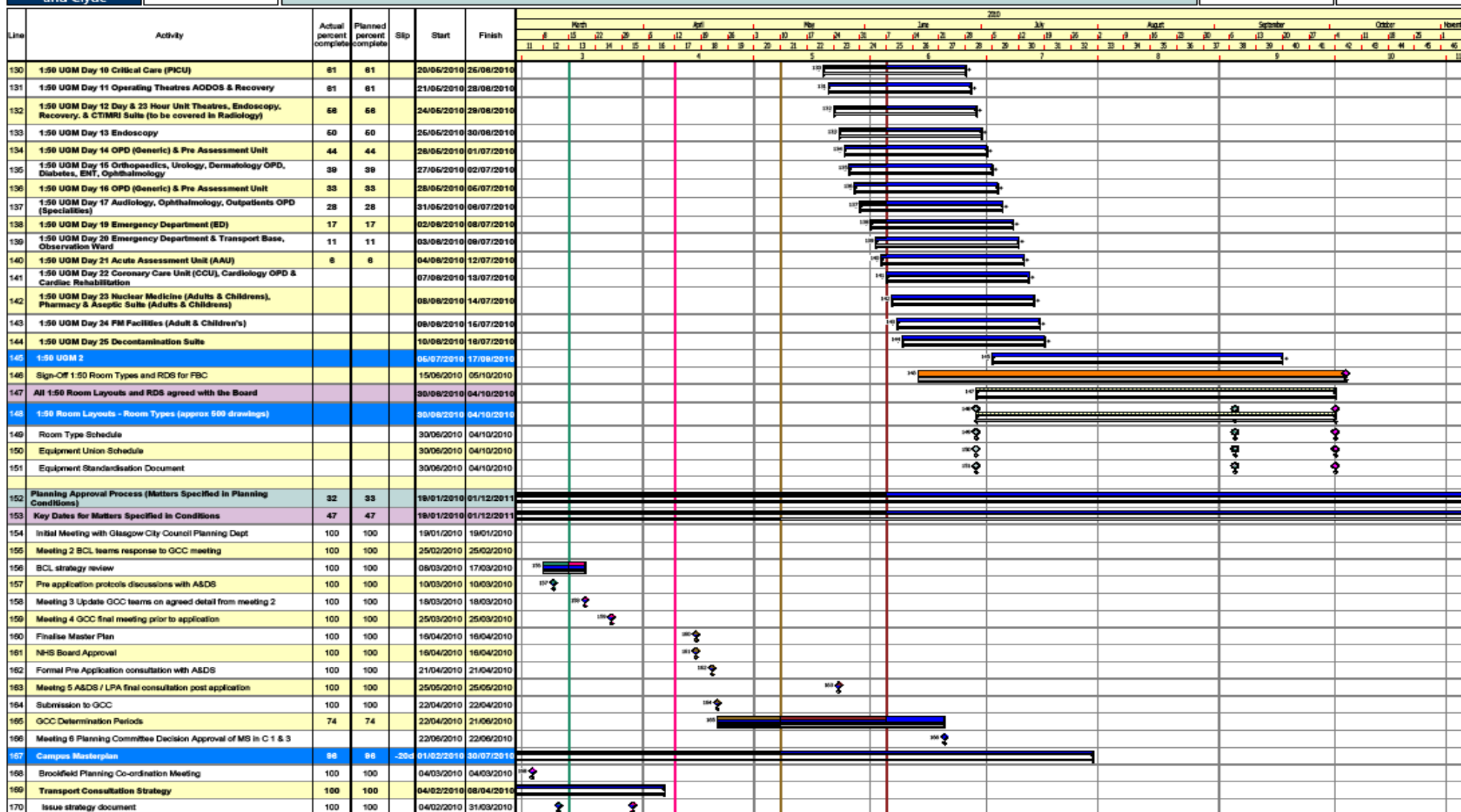
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New South Glasgow Hospitals Project

Stage 2 Detailed Design to Full Business Case Programme

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Date of issue: 18/06/2010

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Print Date: 18/06/2010

Page 4 of 8

Comments: Progress to 06/06/10 Week 24 + previous progress period baseline

Programme No.: BCL-GS2-WKC-0004

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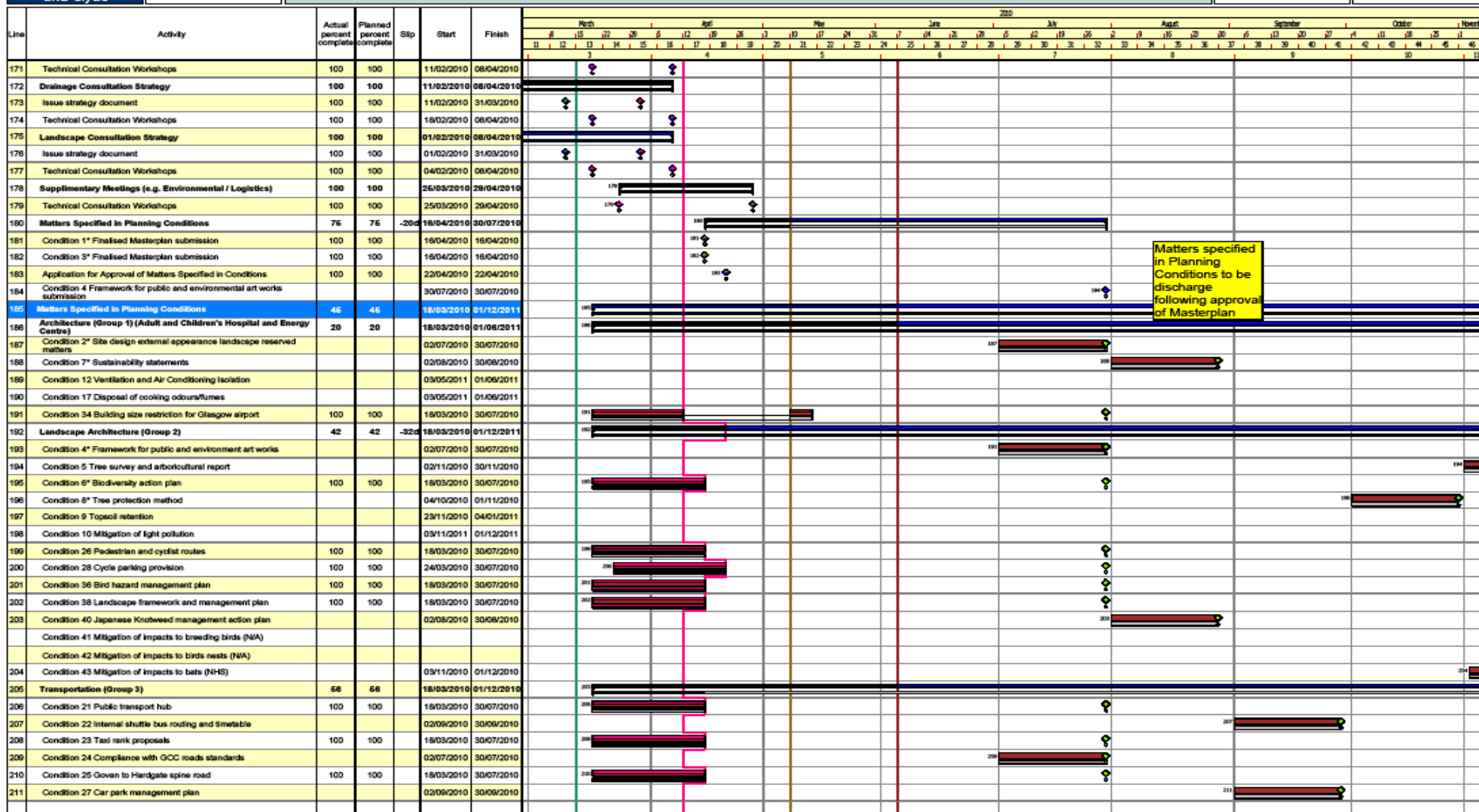
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New South Glasgow Hospitals Project

Stage 2 Detailed Design to Full Business Case Programme

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Matters specified in Planning Conditions to be discharge following approval of Masterplan

Date of issue: 18/06/2010

Drawn By: DAB

Print Date: 18/06/2010

Page 5 of 8

Comments: Progress to 06/06/10 Week 24 + previous progress period baseline

Programme No.: BCL-GS2-WKC-0004

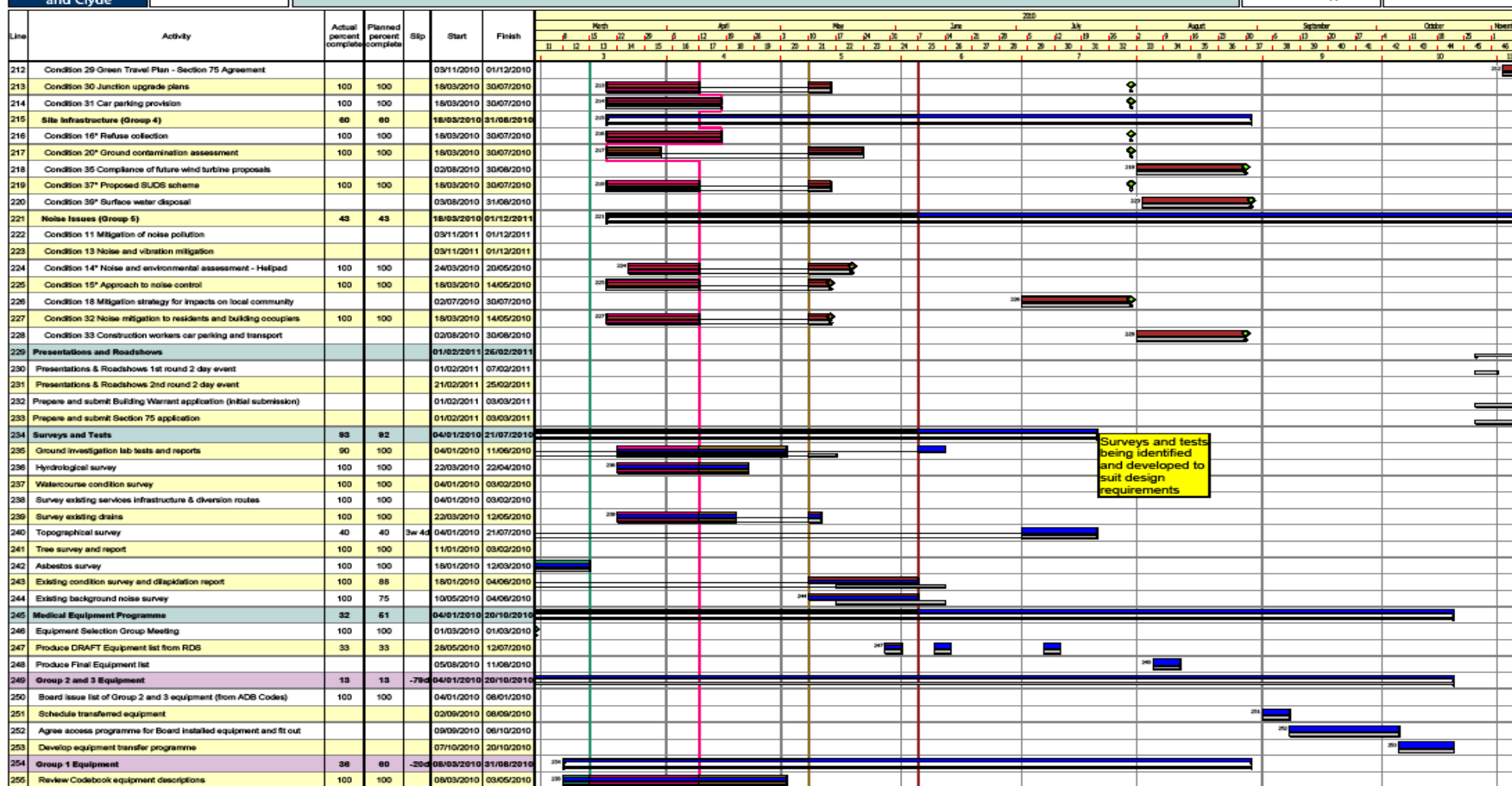
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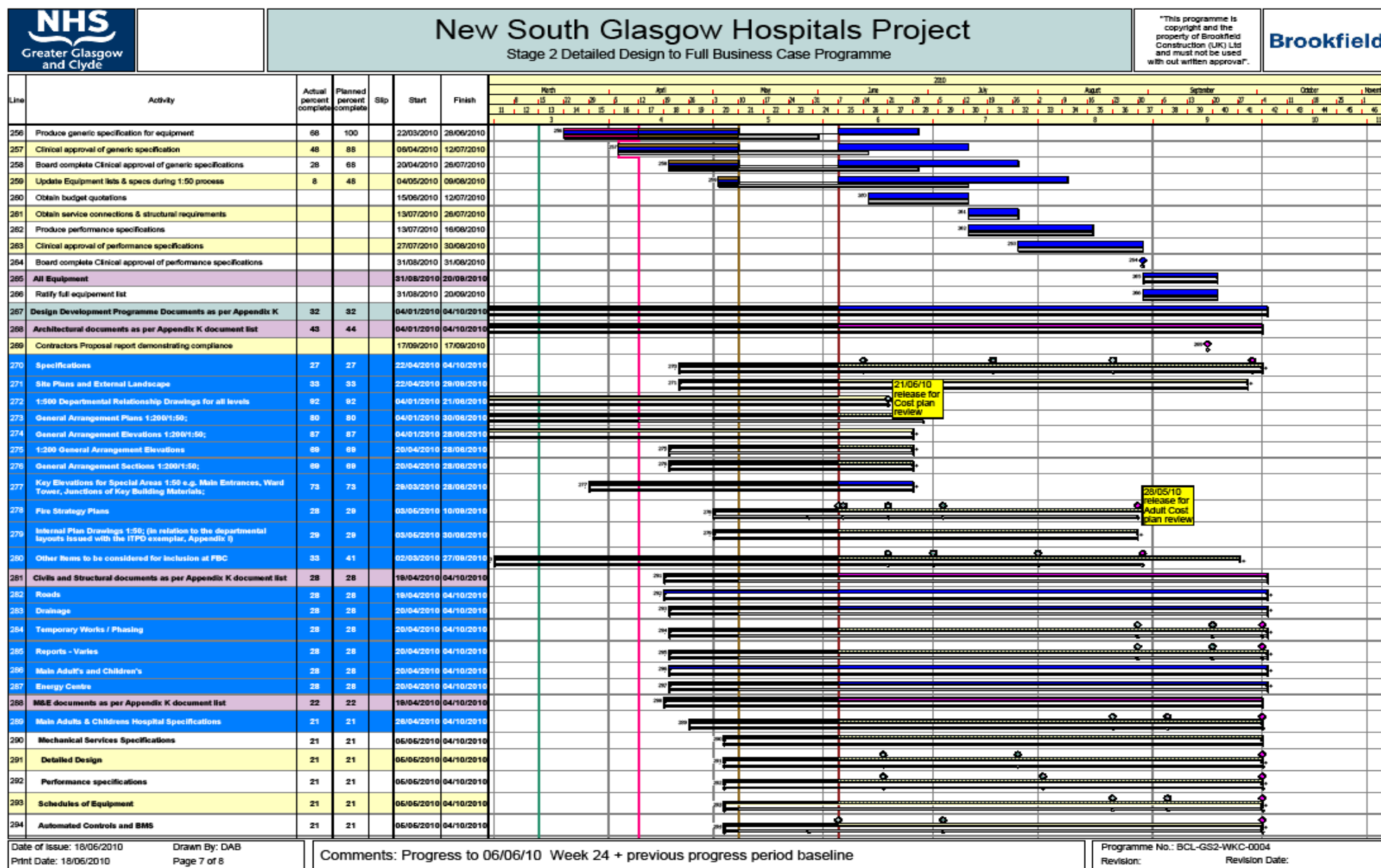
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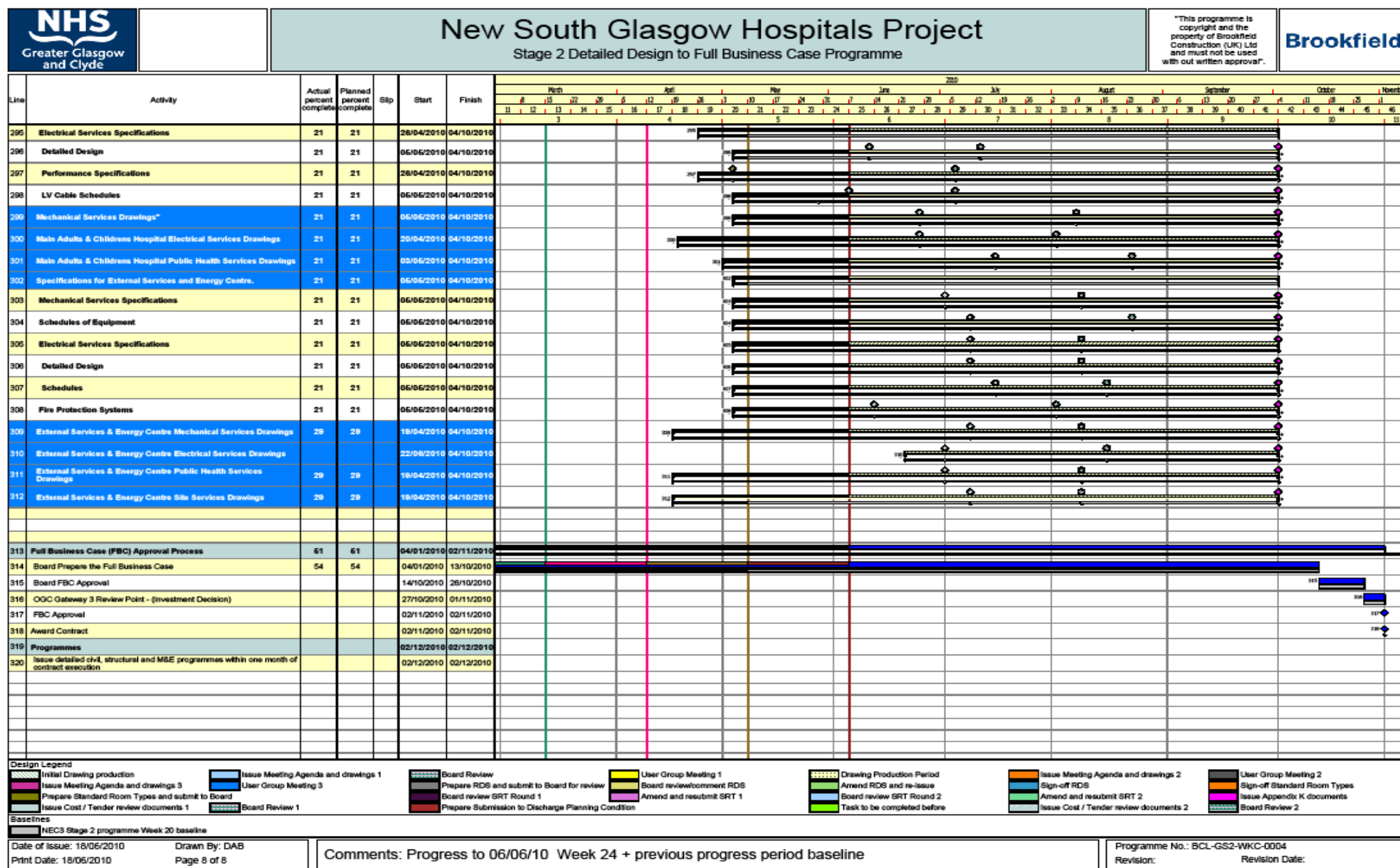


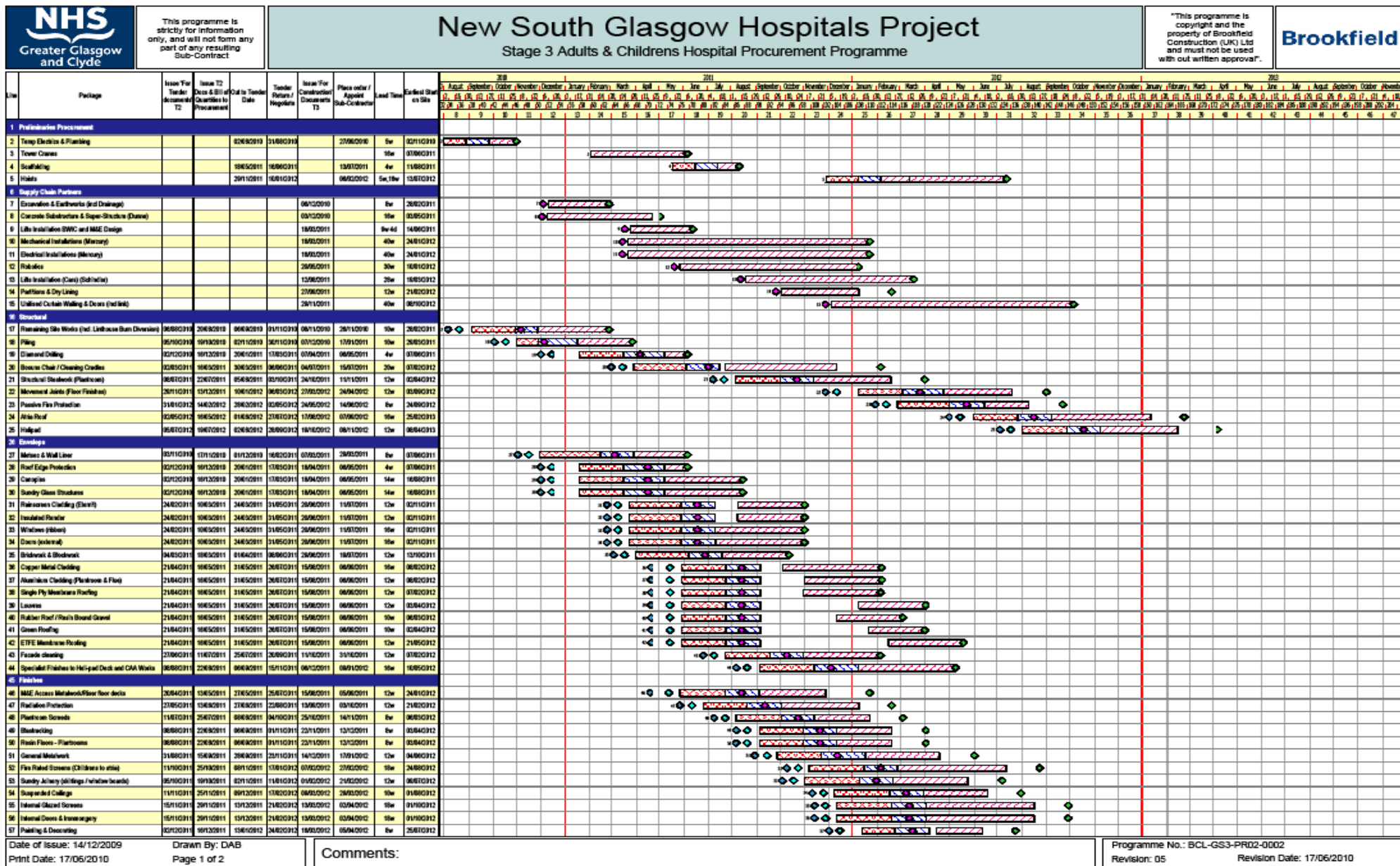
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New South Glasgow Hospitals Project

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Design and Procurement Legend

 Tender

Date of issue: 14/12/2009

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Page 2 of 2

 Lead[illegible]

Comments:

Earliest Start On Site

Issue For Consideration Documents To

Issue 'For Tender documents' T:

Issue T2: Does Bill of Quantities to Procurement

Programme No : BCI

Programme No.: BCL-
Expenditure: 25

Programme No. : BCI-CS3-PR03-0002

Revisions 25 Revisions 2

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Appendix 2

Progress Photos

A52319736

New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield Construction (UK) Limited

Monthly Progress Report No 6

23rd July 2010



Brookfield

Contents

1	Executive Summary
2	Health Safety and Environment
3	Programme and Progress
4	Design Development
5	Construction and Logistics
6	Laboratory Project
7	Commercial
8	Commissioning
9	Enabling Works
10	Other Matters

1 Executive Summary

Design Development

Laboratories

Finalised equipment schedule is still to be issued, and this matter remains ongoing with legacy equipment information being gathered

Adult and Children's

With both Adults and Childrens 1:200's now signed off and areas reconciliation showing an increase in plant and FM areas.

Planning committee approved the Master plan on the 22nd June 2010.

The LPA have indicated that sign off of conditions needs to be reviewed in light of the fact Brookfield's site does not cover the wider red line boundary.

Reports have now been finalised for imminent submission to the Building standards Division in respect of the fire design for the ward tower.

2 Health Safety & Environment

Project SHEQ Meeting

Occupational Health

Duradiamond are present on site 3 days a week, (Monday, Wednesday and Friday). The occupational health nurse is currently going through all of the pre-employment questionnaires, and will complete all safety critical medicals by the end of July.

New Starters in Month:

Total

Non Safety Critical Medicals (paper screen)
Pre-employment Safety Critical Medicals

190 (This includes back dated documents)
22

Safety Critical Medicals Outcomes:

Total 22

No Health Problems
Newly Identified Health Problems
Existing Health Problems

19
2 operatives referred to their own GP

Medical Centre Treatment Attendance:

Total 0

Duradiamond are to submit a monthly report. We have not yet received the first report.

Works Accident
Non-Work Related Accidents
Ill-Health
Reviews
Health Promotion
Pre OHS Medicals
Health Surveillance

Performance

- Health, Safety and Environment

Data up to the end of June 2010							
Hours Worked		AFR	AIR	No. of Accidents Book Entries	RIDDOR Reports	Near Miss	Serious Injury
This Month	13870	0	0	1	0	0	0
To Date	16420	1.16	2.44	5	1	0	0

Summary of accident/incident trends is shown below.

Notes on RIDDOR/Serious Injury/Minor Injury (Up until the end of June)

Minor / First Aid 2/6/10

Whilst moving boards around the shutters, dust and concrete fell and landed on IP face. He was wearing safety glasses, but a piece of dust entered his eye.

Key Events

- Dunne scaffolder Jamie Trainer smashed all of the side windows on the Foreman scaffolder's car after being put on his notice. The Police carried out a site investigation.
- Stent completed all of their work and left site on 9th June.
- Workforce engagement – The first workforce site inspection was carried out on 28th June. Good feedback from the operatives. A report is produced and displayed on the notice board in the canteen.
- Considerate Constructor on site Friday 4th June. Still no report or score

Generally

- Mandatory PPE compliance very good.
- 2 yellow cards issued to Dunne operatives for passing swipe cards through the turnstiles.
- Main issues from the weekly inspection reports: -
 - Access around the site is generally very good, problems with final access to workforce.
 - Use of ladders when alternative access equipment can be used.
 - Exclusion zones are not being used / very good.

Environment

- A car licence application was submitted for our dewatering activities. SEPA have issued an acknowledgement of receipt dated 7th June.
- WSP are preparing a car application for the Jenny's Burn and Linthouse Burn diversion.
- Jon Treacher sent an email to Brookfield Construction and the NSH Board on 2nd June 2010 confirming that SEPA now consider the Thales site Linthouse Burn Pollution Incident to be closed.
- Cleanliness of roads has been exceptional
- Employment opportunity contact telephone numbers, a complaints hot line numbers and sit security numbers are all prominently displayed on the site hoarding next to the site entrance gate.
- Segregation of waste to site offices has been implemented. Waste management of site waste is being controlled by Dunnes presently although Brookfield Construction have commenced interviews with waste management companies to establish what they have to offer

3. Programme and Progress

Reporting period

To Week ending 3rd July 2010 week 28 of contract.

Programmes Included in this Report

The following programmes are included with this report.

Summary Master programme BCL-GSM-CN01-0007 progress week 28

Stage 3 and 3a construction programme remain as per contract programme at this stage and therefore are not included in this report.

Progress Report

Summary Master Programme

Stage 1 Laboratories is on programme.

Stage 2 Detailed design to FBC is on programme.

Stage 1 Laboratory

Design Programme

The Stage D to E design issues has caused late issue of Stage E M&E design leading to late co-ordination of builders work information. URS and Wallace Whittle are working together to provide construction structural information in time to meet on site construction requirements.

Substation – Design works in progress structural design expected by end July. Planning application submitted.

Tender design information issued for:

M&E access metalwork/riser floor decks

Procurement Programme

Overall procurement is on programme.

Issue of tender information adjusted to be one week earlier to 4 weeks before out to tender date. Issue of construction information adjusted to 3 weeks before place order date.

Packages out to tender

Package
Metsec wall lining
Insulated render
Windows (punched)
Curtain walling (stair cores) Atrium 2
General Metalwork

Package Tenders received

Package
Steel Stairs
Structural steel

Construction Programme

Further resequencing has been done to pull forward the construction of area 7 office pod due to earlier completion of piling in this area. Due to later than planned completion of mortuary basement piling this is affecting previous month programme of works putting progress approximately 1 week behind our target date. This is not affecting project completion date. Ground floor construction is proceeding in advance of upper structure. The structure programme is planned to be complete by end of January 2011 as planned. Key dates are release of facade for metsec external wall lining and Structural which are still expected to be met.

Piling – Complete. Stent demobilised and off site on 9th June. Area handed over to Dunne.

Foundation pile caps approximately 76% complete

Mortuary basement – work commenced 9th June. All but one pile cap complete. Drainage going in but design changes delayed installation. Floor slab in preparation.

Cores –

Core 1 (A3-A5/AA-AB) complete to level 2

Core 2 (CR-CT/C4-C6) 4 lift shafts cast to tunnel level.

Core 3 Pod Base slab cast.

Core 4 (A13-A15/AA-AB) complete (Level 4)

Core 5 (mortuary) base slab cast. 1st lift in progress.

Tunnel – Progressing toward water tank and mortuary.

External drainage – Slightly behind. Awaiting withdrawal of sheet piles from core 4 and core 1

Substation – Design works in progress structural design expected by end July. Planning application submitted.

Works expected to start end Sep. This is two months later than planned but completion is expected to coincide with when Scottish Power requires access for delivery of their equipment on 21st Feb 2011.

The project completion date remains at 10th March 2012.

Stage 2 Detailed Design to Full Business Case**1:200 user group meetings**

Adult and Children's user groups are complete and on programme

1:50 process

First round user groups on programme and first round completion due on 16th July.

Planning

Master plan approved on 22nd June. Majority of matters specified in conditions due for submission on 14th July. Approval expected on 27th September.

Medical Equipment

First draft of equipment list was issued on 29th May for review. 2nd draft due for issue end of July

Appendix K

Design documents for appendix K being developed and submitted to BCL for review prior to issue to NHS Board. Board have reviewed some aspects of design already.

Demolition

Start 9th August 2010
Finish end October 2010

Tenders received.

Demolition	Central, Reigart, Beattie, Hunter, JCJ, Masterton
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Stage 3 Adult's and Children's Hospital**Design**

Design for early works e.g. Linthouse Burn diversion in progress by WSP. Proposals being prepared for submission to NHS Board.

Procurement

Linthouse Burn diversion works tender due out September 2010.
Piling tender due out November 2010.

Stage 3 Energy Centre**Design**

Piling design tender information expected August 2010.

Procurement

Piling tender due out September 2010

4 Design Development

LABS

C&B have now issued their 4th iteration of the equipment schedule. The design team has commented and is now awaiting further information regard NHS legacy and new equipment. The final version of the equipment schedule is still awaited.

Work continues on developing the fire engineering design of the entrance void.

Revised schedule has now been issued by Ecoteric and meetings with the design team are to take place to review the updated document and interim assessment.

Building Control

Consultants have now responded to the Building Control request for additional detail for the stage 2 warrant submission and Authority response is awaited

Planning Conditions.

The table below outlines the current position of the planning condition in respect of the Labs. All pre start conditions have now been discharged

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring or continuance	Discharged (applied for)
09/01676/DC	32	9	1	6	18 (4)
Pre Start Condition*	15				15

Adult and Children's

Design

Sign off of all 1:200 user groups has been achieved with 1:50 user groups now underway on programme. Reports on area schedules are being finalised however early indication shows an increase in plant area and FM provision.

Clinical areas remain broadly in line with schedule of accommodation

Design co-ordination meetings continue with emphasis on below ground services, setting out, and road locations.

Tree removal and protection plans have now been completed and ready for submission to planning

Ground contamination surveys are ongoing, with demolition phasing being reviewed for statistical analysis further to meetings with the Authorities. The first of three tranches of information is due in August for submission to planning with the second application in December 10 and final upon demolition of remaining buildings in 2016.

Resolution regarding the substation being situated within car park two is being actively pursued with design now well underway for the substation to accommodate the MSCP loads.

Review of AGV provision is being undertaken with the board, as concern regarding the collection points around core F has been raised.

Building Control

Building control have indicated that they will not determine upon some of the fire safety principles that have been set out in the consultants design notes, and that the matter needs to be referred to the Building Standards Division. A warrant application for stage 3 has therefore been submitted as the vehicle by which the appeal can be heard. WSP fire has now produced their report for imminent submission the GCC for onward transmission to the Building Standards Division.

A meeting with the Heath Facilities Scotland has taken place and the planned layout was noted as technically compliant, albeit the efficacy of the overall design was questioned by the HFS. Extended travel distances have resulted in the introduction of fire compartment 'buffer walls' to further substantiate the proposal.

Planning Conditions.

The table below outlines current position of planning conditions in respect of the A & C.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring or continuance	Discharged (applied for)
07/01158/DC	43	13	4	3	4 (19)
Pre start Conditions	23				4 (9)

Master Plan

The LPA approved the master plan on the 22nd June 2010.

Positive dialogue continues with the planners and consultees to discharge remaining conditions. Whilst the planners are reaching acceptance of back of house materials, their continued requirements for high grade natural products to the main entrance elevation onto the arrival zone is reaching conclusion however there is an impact on cost due to the ongoing hierarchy of material the LPA are seeking.

Proposed external enclosure material types to the A&C have received favourable response from the board albeit the use of zinc still needs to be ratified by the LPA who continue to look for copper.

The LPA has noted that the requirement for an application for road construction consent may not be necessary if the Board want to retain the road network as a private access.

Systematic submission of conditions remains ongoing in line with programme with 19 matters now resting with the LPA for determination.

Further work continues with regards to making the much reduced, but statutorily required swale area more palatable by the Board.

Energy Centre

Co-ordination work between the consultants continues, including reviews of options for external materials and examination of alternative energy initiatives to meet requirements remains ongoing, with option for external treatment under consideration.

Other Group Reports:**Technical Design and Medical Planning Group**

Meetings with the users are now underway to review specific project streams.

Fire Safety – meetings with the Board have now commenced.

Access Control – Project group review was positive and drawings are being amended to reflect discussions

Acoustics – Project group has met with the design team and a positive review of the proposals has taken place. Drawings are being updated to reflect the discussions.

Imaging – Users group have had a second round with the RPA and a compliance schedule is now being populated.

Columns review – The project team group meetings ongoing contemplation of columns has been furthered with confirmation of those locations previously reviewed. Ongoing reviews with particular emphasis in the lower podium specialist areas are being worked upon by the Consultants.

Mock Ups – the mock ups have been completed and used to good effect by all. Work continues to refine construction detailing, with emphasis on bi fold door and IPS

A large combined sample board / mock showing relationship of A&C external wall and arrival zone materials is to be constructed.

Design Healthy Environment Strategy Group

The Group has now met 5 times, once formally with the Brookfield team and a schedule of meetings with strategy development milestones agreed.

- Recruitment of Artist capacity for research and development stage to progress 2 themes of work: Therapeutic Environment and Way completed and induction phase is underway.

Progress to Date:

- Outline framework of Arts and Wellbeing strategy agreed and content under development
- Approach to identification, prioritisation and zoning of 'art and wellbeing' enhancements for both internal and external environments agreed
- Engagement approach for both children's and adults discussed – to be written up- workshops with stakeholders planned for end of August.
- Opportunities for public atrium space in Lab development explored with local partnership funded artist residency scheme (BBC Scotland and Culture & Sport Glasgow) to develop Sci-Art focus with external partnership funding. Mortuary/ viewing facility enhancement to be scoped by Ginkgo in conjunction with agreed work plan with additional capacity funded by health improvement. Proposal in development for both areas for inclusion in strategy.
- Meeting with Scottish Arts Council planned

Issues to flag to project team:

- Potential of 'enhancements' for external fundraising will be considered in prioritisation process
- Numbers of issues emerging that require resolution by Design group or other project groups. Minutes will highlight issues specifically for redirection across project teams e.g. approach to Disabled Car parking / Façade/Design of car park 2 impacting on external space for children's playground.
- Initial draft of strategy will be available for consideration by project team mid June

Medical Planning Group

- Adult & Children's

Signed off 1:200 are continue to make good progress. Changes to the schedule of accommodation are being recorded by the consultants and agreed with the NHS with changes produced from round 1 of the user groups being carried forward with the document being finalised at round 3.

Code book area schedules have been reviewed to standard rooms types is being systematically reviewed by the NHS nears completion.

Project standardisation and union schedules have being issued with workshops ongoing to review ADB codes.

Equipment Selection Group

The Fourth meeting of the Equipment Selection Group was held on 16th June 2010 and the following key activities were identified:

- There are minor variances in the latest RDS and the Equipment list previously prepared. Work is on-going to align the two forms of information.
- NHS GG&C to undertake detailed review of existing fume/smoke cupboards to determine viability of re-use.
- Adult & Acute Hospitals Equipment List (draft 1) has now been issued by BCL and work has commenced to define the costs.
 - The Group have commenced monitoring of key areas through the design development including:
 - Catering
 - Aseptic Suite
 - Decontamination
 - Radiology
 - Renal
 - Pharmacy

IT Group

Due to the holiday period, no further meetings have been held in the month, however work has continued on key issues as follows:

- Numbers of cabinets in main IT rooms (2 off) has been confirmed as 32, as per the Employer's requirements
- Power requirements, heat output and cooling capacity of main comms room is being reviewed by NHS GG&C
- NHS GG&C are reviewing the IT provision in the laboratories with particular reference to wireless infrastructure.
- A presentation of five major departments was made to key NHS GG&C staff with a view to assessing the likely IT provision and its impacts on working practices.

5 Construction and Logistics

- Logistics associated with the site continue to function satisfactorily.
- Govan Road, haul road has been widened to facilitate two way traffic, and together with the Hardgate Road entrance site deliveries and operative vehicles are able to enter and exit the site easily.
- Car Parking for staff operatives and visitors is peaking at 100, and we have surplus capacity for a further 30-40
- Darfen have completed the final section of tree protection adjacent gate five and have completed their contract works for hoardings and gates.
- Temporary water supplies are sufficient for the present situation (supplies to office/welfare and second standpipe supply to site) however at stage 3 increase supply required either via a bore hole or Ambulance station.
- Temporary power supply should be available in the next 2 weeks thus releasing generators to office and welfare facilities, to Tower Cranes and provide power to site.
- Security arrangements functioning satisfactorily although in a reactive rather than proactive manner.
- Site haul roads and entrances providing adequate circulation.

Changes

- The imminent commencement of stage 2 demolition (9th August 2010) should not affect the logistics of Stage 1. However materials arising from the administration, and dining blocks will be removed through the site via gate 6 and Dunnes are creating a link haul road in preparation for this.
- Construction of the permanent substation due to commence the end of September 2010 will require changes to the Hardgate Road entrance. A revised entrance is to be formed at the North West corner at the permanent road position, this is required in August. Construction information for new road has been requested from WSP existing street lighting on Hardgate Road is to be relocated and changes made to hoarding and gates.

Stage 2 Works

- BCL providing any additional existing drainage survey information requested by WSP.
- Further trial pits and bore holes have been completed for contamination investigations.
- Reviews of drawings and site inspections have been carried out in an attempt to understand the existing services locations and reticulation. This is to enable the decommissioning of buildings by the Board prior to demolition, but also to handover a clear site to BCL at stage 3.

The Board have now initiated a site investigation by specialist subcontractor to trace services within the roads at the Linthouse Burn diversion location and to trace the mains gas route within stage 3 site.

- Meetings on sit wide drainage, services, roads and levels continue between BCL and WSP however information release is becoming critical for construction works due to start on or before Full Business Case date. These works include substation, energy centre, and Linthouse Burn diversion construction of site access off Hardgate Road to finished details.
- The above information is also required for discussion with the Board reference changes to land requirements, relocation and diversion of facilities and services. Initial dialogue with the Board has commenced ref Oil Storage, VIE and Substation/Generator locations adjoined the Bio Chemistry building.
- BCL have identified a number of locations where either sequence of work, logistics, or temporary conditions cannot be planned without further information and discussions with WSP. Regular meetings with WSP and release of information from WSP must now be held and monitored against requests from BCL

Environment

- Although BCL received a warning from SEPA regarding the dewatering operations carried out on site without CAR licence. BCL have established with Jon Treacher of SEPA that the dewatering activities and discharge can continue pending approval of our CAR licence application that has been submitted.
- Control of dust has been managed with a bowser on site. Control of mud has been managed with both site accesses having tarmac roads and wheel wash facilities and a road sweeper in attendance.
- No complaints have been received with reference the above or for noise issues. Site activities have at latest finished at 7.00pm with the norm being 6.00-6.30pm.

Waste Management

BCL have met with five different waste management companies to discuss what services they offer for waste management and disposal.

Three companies generally offered a provision of skips, collection and disposal – cost of skips depending upon degree of segregation of waste.

1. One company offered return of waste on delivery vehicles, e.g. supply plasterboard return waste.
2. Another company offered on site segregation and disposal of sorted waste.

BCL are now reviewing options and will arrange follow up meetings with the preferred subcontractor's week commencing 19.7.10.

Interface with the Public

An incident of paint splatter on a car from hoarding decoration operations has been closed out, to the satisfaction of the owner (member of Hospital Staff).

An incident where a car parked in more than facility adjacent to site boundary had damage to recently sprayed bodywork has been closed out, again to the satisfaction of its owner. BCL are unsure whether or not it was our responsibility, but possible it could have been the release agent overspray.

Action has been taken to prevent the re-occurrence of these incidents.

Damage to an operative's car occurred when another employee smashed windows to it after he was dismissed. This incident was reported to the police.

Neighbourhood Liaison Meeting

A meeting has been set up by Mark McAllister of the Board with the local community and representatives from BCL site team, consultants and the Board.

This is on Monday 19th July 2010.

Members of the public will be able to raise questions relating to design and functionality of the future hospital as well as construction activities and the site management of potential nuisance.

Alan Keeley met with Joe McLaren of UCATT, on 30th June 2010. Joe discussed holiday pay and reported that someone had not been paid holiday pay, he asked Alan Keeley to check with the agency.

6 Laboratory Project

Excavation works to the basement and pile cap concrete works are generally complete, with concrete slab now cast to the 650mm dropped slab to the central area of the mortuary and drainage progressing well to the higher slab areas.

Excavation works are also complete to the water tank area and sheet piles removed successfully between it and the mortuary areas. Pile caps are complete to the southern end of the basement and water tank areas with slab reinforcing works well under way.

Works are ongoing to all Core areas with Core 4 walls complete and Core 1 complete to level 3. The level 0 slab is also cast to both cores 1 and 4.

The concrete base is complete to cores 2, 3 and 5 with good progress been made to first lift of walls.

Tunnels continue to progress well and are complete including waterproofing to zones 2 and 3. Progress to walls within core 2 has released the next phase of tunnel slab within zone 1 and works are now progressing to base slab.

Ground beams are generally complete within the pod area and throughout zone 2. Drainage works are now progressing in advance of ground slabs to these areas.

Concrete columns and walls have also commenced to underside of first floor around the core 4 area in zone 3.

Forthcoming Works:

Drainage and ground slab works are to continue to the basement, and works to retaining structures is to commence

The tunnel base slab and walls are to complete within zone 1 allowing drainage and ground slab works to commence. The base slab works to tunnel in zone 4 is to start although progress to this is limited until basement retaining walls are further progressed

Core 1 walls are to continue to completion, with progress ongoing to walls within Cores 2, 3 and 5.

Concrete columns and walls to continue through Zone 3, and are to commence in the pod and zone 2 areas

Drainage works below ground for slab areas is to complete within zones 2 and 3, and ground slabs completed within zone 3 for the commencement of upper slab works

Slab false works are to commence to zone 3 first floor slab, working south from Core 4 and into Zone 2. Reinforcement works are to commence to pour 1 slab and transfer beams. It is anticipated that transfer beam concrete operations may commence towards the later part of the forthcoming reporting period

7. Commercial

7.1 Budget v Cost Plan – TP/MP

Adult & Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on the Target Price.

Laboratories: Stage D to E cost implications all but agreed, with agreement narrative and confirmation to be issued to the Board by BCL.

There has been 10 Nr Compensation Event Notices issued, ongoing finalisation of costs to close out CE and formally adjust Target Price.

Contract Award Target Price	£575,111,382
Compensation Event Notices Issued – formally Closed Out	
Compensation Event Notices Issued – Estimated Value	£850,000
Current Estimated Contract Target Price	£575,961,382

7.2 Early Warning Notices

A regular weekly meeting has been organised and taking pace to review EWN's and agree actions / close out. EWN status and actions are noted in table below as at 16/07/2010:

Sypro ID	NHS Ref No	Item	Date Raised	Status	Date Completed
6715	BCL-EW-001	Brookfield Value Engineering Items	13 January 2010	Value impact work in progress Focus on Tunnel Arrangement – Pack received by Board 01/02/2010	10/02/2010 (PM PMI 003)
6716	BCL-EW-002	Mobile Phone Mast Location	8 th February 2010	Agreement in principle re Scottish Water Land Acquisition. Works on-going to purchase land	
6717	BCL-EW-003	Utilities (1MVA) Power	10 th February 2010	Part of Scottish Power Quotation	13/04/2010
6718	BCL-EW-004	Utilities (11kv Breaker)	10 Feb 2010	Part of Scottish Power Quotation	13/04/2010
6719	BCL-EW-005	Utilities (Moving 11KV Circuit Breakers) – Hospitals	17 th February 2010	Part of Scottish Power Quotation	13/04/2010
6720	BCL-EW-006	Utilities (Moving 11KV Circuit Breakers) – Labs	17 th February 2010	Part of Scottish Power Quotation	13/04/2010

6721	BCL-EW-007	Discovery of Foundations and Brickwork (Labs Site)	3 rd March 2010	Dunne's have removed foundations and brickwork.	8/04/2010 (PMI/General/013)
6722	BCL-EW-008	Planning Issues (Labs Render)	4 th March 2010	Agreed at EW Meeting 17/06/2010 to close EW out	17/06/2010
6723	BCL-EW-009	Planning Issues (Adult and Children's Render)	5 th March 2010	BCL firming up the finishes for final review thereafter will provide to Board team for agreement. BCL to provide costs. BCL to inform Jim Patrick re Board team signing off materials. Ongoing – BCL getting sample materials asap. NHS team requires images and samples.	
6724	BCL-EW-010	Repositioning of Labs Building	8 th March 2010	Cross reference with PMI / General / 008 and PMI / General / 009	10 th March 2010 (PMI/General/009) PART OF STAGE E
6725	BCL-EW-011	Water Main within Basement Footprint	9 th March 2010	Water main being diverted 13/03/2010	08/04/2010 (PMI/General/014)
6726	BCL-EW-012	Access Road serving the laboratories	19 th March 2010	Request for instruction to extend the access road. NHS confirmed that this work will not be undertaken post FBC. This EW to be closed out	10 th June 2010

Sypro ID	NHS Ref No	Item	Date Raised	Status	Date Completed
6727	BCL-EW-013	Laboratories Tunnel	29 th March 2010	Request to construct the Labs tunnel beyond the extents of the new access road. NHS confirmed that this work will not be undertaken post FBC. This EW to be closed out	10 th June 2010
6728	BCL-EW-014	Increase in Building Control Fees	14 th April 2010	BCL submitted Building Warrant Application. Expectation that receiving building warrant locks design into current legislation. BCL identifying impending changes to legislation for discussion with the NHS team. BCL negotiations with GCC to be concluded by 15 th July 2010.	
6729	BCL-EW-015	Junctions at Govan Road	14 th April 2010	NHS confirmed that SW has advised that they are	

				unwilling to alter their junctions at Govan Road. WSP to be asked if GCC can serve a left turn only enforcement notice on SW. Junction information indicated on Master plan submitted end April. RCC will conclude this issue.	
6730	BCL-EW-016	Kitchen Relocation from level 3 to Basement	14 th April 2010	NHS team obtaining still to obtain formal Board sign off however AS confirmed that BCL can undertake kitchen relocation from level 3 to the basement. NHS will raise a CEN.	1 st July 2010
6731	BCL-EW-017	Compatibility of the existing Kitchen cart/trolleys and the Proposed AGV Robotic System	15 th April 2010	NHS team have reviewed mock-up cart. Feedback being prepared. Operational cart height/weight issues identified. NHS team to advise BCL on acceptability of proposals. NHS requested to see whole cart system. PM had initial discussion with DS as NHS Team are still to sign off AGV Strategy. AGV meeting organised for Tuesday 6 th July 2010.	
Sypro ID	NHS Ref No.	Item	Date Raised	Status	Date Completed
6732	BCL-EW-018	Service drain to the side of the Laboratories Building	21 st April 2010	Board to review costs and advise BCL on way forward. There are two service drain issues: 1 – Children's hospital drainage – NHS confirmed the children's hospitals drainage works had been agreed. NHS will raise a CEN 2 – Attenuation. BCL will raise the attenuation issue as a separate EW. NHS confirmed that attenuation works could not be undertaken until post FBC.	1 st July 2010 Attenuation EW to be raised separately.
6733	BCL-EW-019	Purchase of land from Scottish Water	21 st April 2010	BCL to provided reasons for the increase in proposed land-take. NHS to comment on options re swales. C&B to check history of Labs Planning Application re road layout. C&B confirmed that they would check the 2 interim site plans re road layout. PM to liaise with Scottish Water and ascertain if they have any issues.	

6734	BCL-EW-020	Contamination within Water System	21 st April 2010	Contamination issue dealt with. NHS to confirm ownership of drain. BCL to confirm if further access/disturbance of this drain is required. NHS to liaise with AK re getting SEPA to look at drain. HMC to organize meeting.	
6735	BCL-EW-021	Discovery of Flammable Gas within Ground in Basement	7 th May 2010	BCL to provide extract from SI Report re ground gas information. BCL Consultants to produce a report. BCL and Board team to agree to a definition of what is 'significant'. BCL reports that SI stated very minimum pockets of gas however methane had been discovered in 9 out of 12 boreholes. The sampling works information provided by the Board was insufficient. BCL have identified the problem boreholes and they will provide further information.	
6958	BCL-EW-022	Service diversion of street lights on site	21 st May 2010	Isolation works completed.	25/06/2010
6959	BCL-EW-023	Design development of the Substation within the car park resulting in a reduction of available parking space.	21 st May 2010	PMG agreed this EW should be closed off	25/05/2010
Sypro ID	NHS Ref No	Item	Date Raised	Status	Date Completed
6960	BCL-EW-024	Roof top Helipad	21 st May 2010	Revised report issued 16 th June 2010 (reflects proper flight paths and helicopter type). NHS confirmed that GCC Planners satisfied with distance of Helipad from local housing. BCL to instruct Jim Miller to provide report and summary of report findings to Jim Patrick. This EW to be closed off.	10/06/2010
6961	BCL-EW-025	Car Park 1 Conflict with Master plan	21 st May 2010	NHS confirmed no conflict. EW to be closed off.	10/06/2010
6967	BCL-EW-026	External Walls: Copper Cladding to Columns	27 th May 2010	NHS to review cost information provided by BCL DR requesting reconciliation cost information re elevations, i.e. block work, granite etc	28/06/2010
6968	BCL-EW-027	Swisslog Robotics (stage 3)	27 th May 2010	DS to review what is required i.e. addition of an extra bay. ER's stipulated no of movements therefore this is part of the defined costs - DS to confirm. BCL advised that the ER's didn't stipulate the no. of carts.	

				<p>GW to liaise with Karen Connelly</p> <p>BCL to provide additional info and costs re additional cart lifter.</p> <p>Further issues have been identified. BCL to raise separate EW to cover further issues. BCL arranged an AGV specific meeting for 6th July 2010.</p>	
6972	BCL-EW-028	Moveable Vertical Fins to Laboratory Pod	2 nd June 2010	<p>BCL to provide modelling information and demonstration re moveable fins v's static fins. BCL agreed to provide information by Friday 25th June 2010</p> <p>BCL indicated potential early cost saving calculation as £100K, however M&E costs were still to be identified.</p>	
6987	BCL-EW-029	Building Control concerns over sub-compartmentation exits from wards	29 th June 2010	Closed – Refers to NHS-EW-015 (6895)	30/06/2010
6993	BCL-EW-030	Proposal to change escape stair and mortuary stair handrails	16 th July 2010	Board to consider changing mortuary stair and escape stair handrails to painted stainless steel	

The following Early Warnings have been submitted to BCL as at 16/07/2010

Sypro ID	NHS Ref No	Item	Date Raised	Status	Date Completed
6699	NHS-EW-001	Stage D to E Reconciliation	14 January 2010	DH to liaise with Paul Fairie and Manny Ajuwon. Equipment list to be reissued to BCL. The 6 'empty' rooms to be finalised. PS to agree final decision as proposed by DR at PMG	
6701	NHS-EW-002	Testing of Building Board Material on Site	21 January 2010	Complete - CE 001 Issued	11/03/2010
6704	NHS-EW-003	Japanese Knotweed Survey	21 January 2010	Complete- CE 002 issued	11/03/2010
6705	NHS-EW-004	Excavated Building Materials/Spoil	21 January 2010	Complete PMI 004 issued CE 003 issued	11/03/2010
6706	NHS-EW-005	Live HV Cable – SGH Site	27 January 2010	Complete - disconnect live HV cable	7/02/2010
6952	NHS-EW-006	Borehole water	15 February 2010	Complete - PMI 020 issued	23/06/10
6953	NHS-EW-007	Adult Hospital – Haemato-Oncology Area	12 th March 2010	Complete - PMI 021 issued	23/06/10
6954	NHS-EW-008	Oncology Ward - Specialist ventilation	16 th April 2010	Complete - PMI 021 issued	23/06/10
	NHS-EW-009	REF NO – NOT USED			
6955	NHS-EW-010	Site Electrical Load	16 th April 2010	Complete - PMI 019 issued	23/06/10
6956	NHS-EW-011	Patient Hoists and Structural Support	16 th April 2010	BCL advised of omission of 100 (nr) patient hoist including structural support from wards. Response from BCL awaited by Board. Board to issue PMI and request costs then close out this EW. Board to confirm final no's. Work ongoing.	
	NHS-EW-012	REF NO – NOT USED			
6957	NHS-EW-013	HV Generators	16 th April 2010	Closed out - Links to NHS-EW-010. PMI 019 issued	16/06/2010
6981	NHS-EW-014	New Children's Hospital – Theatre Recovery Area	21 st June 2010	Closed out – links to PMI/General/022	30 th June 2010
6985	NHS-EW-015	Adult & Children's Hospitals Fire Strategy	23 rd June 2010	Board wish to understand the BCL programme and plans to take forward the fire strategy	
6988	NHS-EW-016	AGV System - Adult and Children's Hospitals	29 th June 2010	The Board will require to see the integration of the proposed system in full compliance with the Board's stated requirements and set out within the 1:200	

				departmental layouts prior to the final sign off of the layouts. BCL organised meeting to take place on 6 th July 2010	
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Sypro ID	NHS Ref No	Item	Date Raised	Status	Date Completed
		IT Racks		BCL to raise EW Board team currently mitigating the IT Racks issue. Board will confirm the IT requirements asap. BCL raising an RFI to Board re what is going on the racks	

7.3 Project Manager's Instructions

The following Project Manager's Instructions have been submitted to BCL as at 16/07/2010:

Sypro ID	NHS Ref No	Item	Date Issued	Actions	Date Closed Out
323	MB/PM/General/001	Stage 1 Laboratories - Start on Site Date	27th January 2010	Closed out	27/01/2010
324	MB/PMI/General/002	Revision to Contract Assessment Dates	8th February 2010.	Closed out	08/02/2010
325	LAB / PM / General / 003	Laboratory Block – Tunnel Reconfiguration	10th February 2010	Ongoing assessment as part of Stage d to e reconciliation	
326	PMI / General / 004	Excavated Materials / Spoil	23rd February 2010	Closed out	10/03/2010
327	PMI / General / 005	Laboratory Project - Future Expansion	23rd February 2010	Ongoing assessment as part of Stage d to e reconciliation	
328	PMI / General / 006	Laboratory Project - Basement Floor Level	26th February 2010	Ongoing assessment as part of Stage d to e reconciliation	
329	PMI / General / 007	Laboratory Project - Ventilation to PM tables	26th February 2010	Ongoing assessment as part of Stage d to e reconciliation	
330	PMI / General / 008	Laboratory - Stage E Civil & Structural Engineering Drawings	9th March 2010	Ongoing assessment as part of Stage d to e reconciliation	
331	PMI / General / 009	Laboratory Project - Relocation of Footprint	10th March 2010	Closed out	10/03/2010
332	PMI / General / 010	Laboratory project – Architectural drawings and NBS Specification	23 rd March 2010	Ongoing assessment as part of Stage d to e reconciliation. AL 70 series drawings to be confirmed	
333	PMI / General / 011	Laboratory Block – VE Review 1	25 th March 2010	Ongoing assessment as part of Stage d to e reconciliation M&E updated drawings to be provided	
334	PMI / General / 012	AGV System - Cart Washer	25 th March 2010	Cart Washer not required by Board. CE notified by BCL (CE 006) CE accepted by Board	9/06/2010
335	PMI / General / 013	Laboratory Project – Removal of Foundation from Old Rec Pavilion	8 th April 2010	Closed out No cost	08/04/2010
336	PMI / General / 014	Laboratory Project – Diversion of Water Main	8 th April 2010	CE notified by BCL (CE 004) CE accepted by Board	25/05/2010
337	PMI / General / 015	Removal of Japanese Knotweed (Bunded Area) Off Site	28 th April 2010	CE raised by BCL (CE 002) CE accepted by Board	10/06/2010
351	PMI / General / 016	Laboratory - Stage E - Mechanical and Electrical Drawings and Specification	17 th May 2010	Confirmation of drawing hierarchy as at 17 th May 2010 – stage D to E	
356	PMI / General / 017	Laboratory Block – Mortuary (Basement Level -1) Room L-1/B/027	31 st May 2010	CE notified by BCL (CE005) CE accepted by Board	24/06/2010
367	PMI / General / 018	Laboratory Project-Mortuary X Ray Room L1/B/027	17 th June 2010	To be read in conjunction with PMI / General / 017 New room layout to be designed	

Sypro ID	NHS Ref No	Item	Date Issued	Actions	Date Closed Out
368	PMI/General/019	Change to Electrical Load requirements	23rd June 2010	Linked to NHS-EW-010 and NHS-EW-013. BCL to provide costs. BCL instructed Mercury to provide quotes. BCL reported that they would need to check that the space remains	
369	PMI/General/020	Borehole Water Supply	23rd June 2010	Board reviewing cost information received from BCL CE event raised by BCL (CE	
370	PMI/General/021	HAEMATO-ONCOLOGY WARD	23rd June 2010	Links to NHS-EW-007 and NHS-EW-008 BCL to provide an indication of the cost saving to remove the additional filtration to the 8 No rooms and ensuites.	
375	PMI/General/022	New Children's Hospital – Theatre Recovery Area	30 th June 2010	Links to NHS-EW-014 (Sypro 6981) Board confirmed that they no longer require fixed solid partition walls between recovery bays (17 bays). BCL to provide updated 1:50 theatre plans and provide costs	
381	PMI / General /023	Stage 3 Adult Hospital CCU Bed Bay Dividers	8 th July 2010	BCL to provide revised layout omitting single bed bay glass screens for approval by the Board team BCL to provide cost saving for the removal	
383	PMI/General/024	Laboratory Block – Fire Alarm Cable	09 th July 2010	BCL to provide costs to substitute Prysmian FP200 plus cable system in lieu of MICE cable system.	

7.4 Compensation Events

The following Compensation Events have been submitted as at 16/07/2010:

Sypro ID No	NHS Ref No	Item	Date Issued	Status
4294	CE 001	Removal of Asbestos Building Board	10th March 2010	Agreed
4295	CE 002	Removal of Japanese Knotweed	10th March 2010	Agreed
4296	CE 003	Removal of Excess Spoil	10th March 2010	Agreed
4451	CE 004	Water Main within Basement Footprint	25 th May 2010	Agreed
4501	CE 005	PMI / General / 017 - Laboratory Block - Mortuary (Basement Level -1) Room L-1/B/027	3 rd June 2010	Agreed
4528	CE 006	AGV System - Cart Washer Removal	9 th June 2010	Agreed
4632	CE 007	Labs Project - Copper Cladding to external columns	28 th June 2010	Agreed
4660	CE 008	Kitchen Relocation from level 3 to Basement	02 nd July 2010	Agreed
4661	CE 009	Service drain to the side of the Laboratories Building (BCL-EW-018) Sypro 6732	02 nd July 2010	Agreed
4676	CE 010	Borehole water supply	7 th July 2010	Costs under consideration by NHS

Monthly Payments

Assessment nr 6 was processed and issued 22 July 2010 as follows:-

PSCP	Stage 1	£	10,381,134.00
	Stage 2	£	8,104,450.00
	Stage 3	£	
	Stage 3A	£	
	PSCP Work Done to Date	£	18,485,584.00
	Deduct retention free amount £	£	0.00
	Sub total	£	18,485,584.00
	Retention	£	-924,279.00
	Sub total	£	17,561,305.00
	Deduct previous payments	£	13,017,622.00
	Sub total	£	4,543,683.00
Add VAT %	17.50%	on £ 4543683	£ 795,144.53
	Amount due	£	5,338,827.53

Adjustment to the BCL application was made with regard to accruals for both Mercury and Structal, these being costs out with the “working area” as well as retention held in respect of the Stage 2 works to reflect the ongoing 1:50 process as well as the review of the AGV hold solution in the south-east of the podium (Core F).

Cash Flow

It is noted that the contract as agreed did not identify provision for payments for materials, plant & equipment outwith the “working area”. BCL are to make a proposal to NHS GG&C to change the “working area”. BCL require to update their Stage 1 and Stage 2 cashflows in order that the FY09/10 can be reviewed, additionally BCL are to consider their Stage 3 works and activity in the 09/10 window and report their updated outlook to the Board.

It is critical that spend is monitored closely and any movements highlighted as soon as possible, as changes affect NHS GG&C internal capital planning. BCL to liaise with C&B in advance of issuing cashflows in the first instance.

Risk Review and Management

A review of both Contractor and Board Risk Registers was previously undertaken, per the June report, Stage 1 risks and forecast drawdown of allowances to be monitored to support cashflow updates.

Board Risks Triggered are:-

Risk ID	Description	Occurrence
13	Unforeseen Site Conditions	Site topography changed since Topographical Survey undertaken as a result of spoil dumping There is ongoing discussion regards the discovery of isolated pocket of ground gas (refer EWN BCL 21)
15	Diversion of unforeseen services	Water main discovered under Laboratory building footprint
17	Asbestos	Asbestos board discovered on Laboratory site
20	Japanese Knotweed	Identification and treatment of Japanese Knotweed

8 Commissioning

Peter Moir and Fiona McClusky do not have anything to report as the meetings have not yet convened.

Enabling and Related Site Infrastructure Works under Board Control

Scottish Water Land

The Board have agreed the extent of the land to be purchased with Scottish Water and have managed to avoid moving the phone mast or impinging on the Phone-mast Operators leased area.

The district valuer has surveyed the site and will hopefully issue his report next week when he returns from A/L.

Scottish Ambulance Service

Levendale Pharmacy: - R&R Construction were awarded the contract on Thursday 15th July. The works are due to commence on the 2nd of August with a 13 week contract. The Asbestos survey has been completed and the services isolated to allow this to start on programme.

Levendale Kitchen: - Works have commenced with Clark Contracts and should be complete the first week in August. Handover will be a week following this to allow for IT works and equipment transfer.

Johnstone Hospital: - Internal Services Refurbishment works for the Special Operations and Resiliency Unit are complete.

Helicopter and Construction Works Interface

The Helicopter Management Plan Version 2 has been signed off by all parties. This included the updated information from Barr on their crane types, locations and lifting plan and the amendment from Brookfield. The Board are awaiting confirmation from Brookfield that their crane lighting meets the NOTAM specification.

Weekly 'construction works interface meetings' are taking place – facilities currently have no issues.

Demolition Works

The Asbestos surveys are under way in the Residencies, with the Walton being completed Tuesday 21st July. The library required 2 weeks notification to HSE for inspection under Asbestos tiles identified within the Type 2 Surveys. Reports are expected within a week from completion of surveys.

The Tender report has been received and it was agreed to go with Brookfield's recommendation. Brookfield has now also circulated a programme showing the revised start date of 9th August.

The Board has gone out to 3 contractors to get a quote to survey the gas main, the services in the road leading to Hardgate Road and anything else within the site that has uncertainty. Quotes are being obtained for the new nursery supply and the Helipad lights as these are both fed from buildings due to be demolished.

Facilities have re-confirmed that the Management Annex will be vacated at the end of July and that the Kitchen/ diner/ chaplaincy will be cleared by the end of August.

The Bat Survey report was issued on Aconex on the 16th July 2010 – no roosts were found.

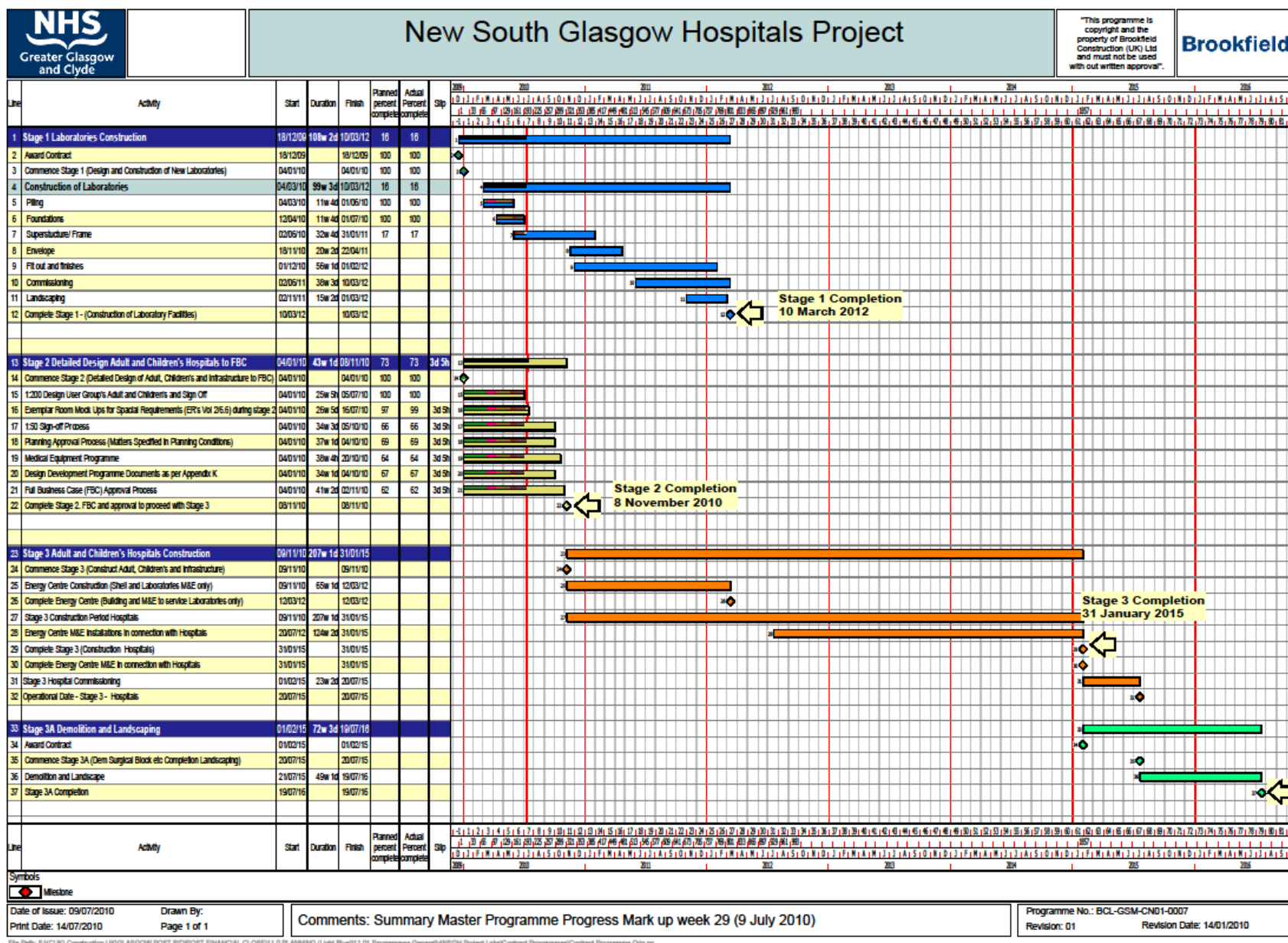
10 Other Matters

- Car Parks, Education Centre, Ronald Macdonald House

Peter Moir does not have anything to report

Appendix 1

Marked up Programmes



New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde
and
Brookfield Construction UK Ltd

Monthly Progress Report No 9

26th October 2010





Brookfield

Contents

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- 3 Programme and Progress
- 4 Design Development
- 5 Construction and Logistics
- 6 Project Supervisor
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- 9 Enabling Works
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1 - Site Progress Photographs

1. Executive Summary

1.1 Introduction

The Joint NHS / Brookfield Project Team are currently working on a range of tasks to bring the Project to a critical milestone in early November 2010.

- Submission of the Full Business Case to the NHS Board and Scottish Government Capital Investment Group. (26th October 2010 and 9th November 2010).
- Conclusion of Stage II Design Development and Appendix K process.
- Management and construction of Stage I Laboratory project on site.
- Management of Risk and Change.
- Cost Control and management of NEC3 processes (EW/PMI/CE) for Stages 1 and 2

The notes below summarise some of the key points from the detailed reports that are included in the following sections;

1.2 Health and Safety

No Riddor or serious injuries to report this month.
5 minor injuries reported on site in month.

1.3 Programme and Progress

Both Stage 1 and 2 are generally on programme to complete by their programmed dates of 12th March 2012 and 3rd November 2010 respectively.

1.4 Design Development

Labs Project

- The equipment schedule is being reviewed by BCL.
- Feedback is awaited from the BREEAM assessor.
- Reviewable design data is being submitted to the Board for approval.
- Plant schedules continue to be issued.
- A review of the waste management yard has taken place with changes being proposed by the Board in respect of liquid nitrogen storage.
- The Stage 3 warrant application has now been made to building control with an advised review period not being sooner than four weeks.

Adult & Children's Hospital

- The 1:50 user groups are now completed with drawings being updated and provided to the Board for review and sign-off.
- Reports on area schedules have been provided and are to be reviewed against bid information and measured area.
- The wind study has been completed.
- Review of AGV layouts have been concluded and agreed with the Board.
- Strategy for road construction consents has been reviewed and agreed with the Board, subject to review of updated drawings.
- Warrant applications stages 1 and 2 for the energy centre have been made, locking the design into pre October 2010 legislation.

1.5 Construction and Logistics

The Laboratory Project remains on programme and works to demolish the old buildings within the Stage 3 site commenced on 28th September 2010. BCL are investigating the potential to accelerate elements of the demolition programme. Regular meetings (Thursday/weekly) with hospital managers continue to assist the day to day operations and interface on site.

1.6 Project Supervisor

Visits to the site during September indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Project Executive Plan. Capita Symonds continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with their visual site inspections. Capita Symonds also continue to be assisted by the site teams in obtaining information and have had a number of ad hoc meetings with them. Communication with the project team members is via Aconex and is now well established and they are now receiving a steady flow of drawings, specifications and other information.

1.7 Commercial

Target price remains in line with agreement.

Compensation events which have been concluded are estimated at -£394,127.10

Weekly meetings to review EW, PMI's and CEs ongoing.

2. Health Safety and Environment (Month ending September 2010)

Month Ending September 2010			
1 Environmental			Last Review Date
1.1 Aspects, legal and other registers have been reviewed and controls are in place. Last reviewed in August by Paul Bidecant. Review required before next risk review meeting			
1.2 All licenses are up to date (list of possible license types). WSP will be applying to SEPA on our behalf for a “full waste site licence application”. This will enable us to provide a waste segregation area on site.			
1.3 SWMP is up to date with all subcontractors 22/9/10 – WSP have included estimated waste data into the SMART Waste system.			
1.4 Audits in the month. Outstanding issues - Nothing this month			
1.5 Visits by EA or SEPA in the month. Issues raised – Nothing this month			
2 Health & Safety			
2.1 Risk registers and Critical risk registers are up to date Reviewed at risk review meeting 21/9/10			
2.2 All registers are up to date Random checks carried out during September.			
2.3 The Construction Phase Plan is up to date All plans were checked by the Managers responsible for them. Issues were discussed at the monthly risk review meeting 21/9/10.			21/9/10 – Monthly Risk Review Meeting
Statistics	Month	To Date	Figure correct up to end of September 2010
Reportable injuries	0	1	
First Aid / Minor injuries	5	14	
Near Miss Incidents	1	1	
Hours Worked	57960	250320	
AFR (Target 0.35)	0	0.40	
2.4 Audits in the month. Outstanding issues 17/9/10 – Received the report from the audit carried out on 19-21 st July. Only minor issues. 16/9/10 – Insurance audit carried out by Joseph Chivers (JLT group), Graham Jukes (Chubb Insurance) & Marcus Gresham (Cunningham Lindsay Construction). We are awaiting the report. 28/9/10 – Dean Sykes carried out a Health & Safety audit on Dunne. Follow up audit will be carried out end of October to make sure actions have been closed out.			
2.5 Visits by HSE in the month. Issues raised – Nothing this month			

3 Quality	
3.1 QITPs up to date Mercury, M & S Engineering Ltd., Prater, Pavo Steel Fabrications now taken on board. QITPs & Aconex recording to be agreed.	
3.2 There are no quality problems. Floor slabs to be checked for flatness. In general appear to be well within spec. Possibility of saving re thin screed.	
None this month	
3.3 Audits in the months. Outstanding issues – None. Dunnes quality inspection records now uploaded weekly on Aconex for all to see.	
3.4 Visits by District Surveyor, Building Control etc. Issues raised – Non Conformance procedures raised by Capita Symonds. Replied to and they appear quite happy with how we have dealt with them to date.	
4 Temporary Works to date	
4.1 Designs submitted for review. Amendments only to backpropping layouts	
4.2 Reviews completed	4 No
4.3 Permits to load 182 to date	27 No this month
4.4 Current major reviews being carried out. Awaiting third party design check for the additional welfare/offices.	
4.5 Current issues. Backpropping issues resolved. Design certificates in place for pours to date. Should receive remainder this coming month thus completing all backpropping requirements	
4.6 Sub contractor performance. In general good.	

3. Programme and Progress

1.0 Reporting period

To Week ending 3rd October 2010 week 41 of contract.

2.0 Programmes

The following programmes have been uploaded onto Sypro.

Summary Master programme Week 41 (BCL-GSM-WKC-0002)

Stage 1 Laboratory 6 week look-a-head programme Week 41 (BCL-GS1-WK-0027)

Stage 1 Laboratory Design and Procurement Programme Week 41 (BCL-GS1-PR03-0006)

Stage 1 NEC updated Laboratory Construction Programme Week 41 (BCL-GS1-WKC-0008)

Stage 3 A&C Procurement Programme Week 41 BCL-GS3-PR02-0006

Stage 3 Energy Centre Design and Procurement Programme Week 41 (BCL-GS3EC-PR01-0006)

3.0 Progress Report

3.1 Summary Master Programme

Stage 1 Laboratories is on programme.

Stage 2 Detailed Design to FBC is on programme.

Stage 3 Energy Centre Procurement is on programme

Stage 3 A & C Procurement is on programme

3.2 Stage 1 Laboratory

3.2.1 Design Programme

BMJ and URS now achieving delivery dates of design programme. Wallace Whittle design completion date has slipped from 24/09/10 to a revised date of 26/11/10. Discussions are being held with WW to improve on these dates and with Mercury to mitigate impact and secure start on site dates as original programme.

3.2.2 Procurement Programme

Procurement is on programme.

Stage 1 Laboratory Procurement Schedule

Report for period week 41 to 3rd October 2010

Overall procurement is on programme.

Status of work packages as detailed in table below.

Package	Tenderer	Status	Appointed Subcontractor	Start on Site
Doors and Ironmongery	TDSL, Laidlaw, Leaderflush			
External Doors		Tenders returned being evaluated		
Roller Shutters Doors		Tenders returned being evaluated		
Green and Membrane Roofing		Order placed	Prater	Jan 2011
Copper metal cladding to roof		Order placed	Prater	Feb 2011
Aluminium Cladding		Order placed	Prater	Feb 2011
SFS wall lining		Order placed	Prater	Nov 2010
Insulated render		Order placed	Prater	April 2011
Windows (punched)		Order placed	Prater	Jan 2011
Curtain walling (stair cores) Atrium 2		Order placed	Prater	Feb 2011
Louvres		Order placed	Prater	Mar 2011
Steelwork		Order placed	Pavo	Nov 2010
Stairs and Gen metalwork		Order placed	M&S	Nov 2010
Dry Lining and Partitions		Order placed	Astins	Nov 2010

3.2.3 Construction Programme

Construction is on programme.

3.2.3.1 Progress summary

Activity	Percent complete	Comments
Foundations	100	Complete
Mortuary basement	100	Complete
Tunnel	100	Complete
Cores	82	
Frame Level 1	83	Area 1,2,3,4,7 out of 7 complete Formwork in place area 5 & 6
Frame Level 2	44	Area 1,2, complete. Formwork and reinf area 3, 7
Frame Level 3	10	Formwork area 1
Ground floor slab and drainage	100	Complete
External drainage	37	
Substation	0	Due to out of sequence working. Planned start is now 6 th Dec '10

Substation – Planned to commence works on 6th December 2010.

The project completion date remains at 10th March 2012.

3.3 Stage 2 Detailed Design to Full Business Case

1:50 user groups now complete

3.3.3 Planning

Status of Matters Specified in Conditions (MSC):

MSC application No1 Campus Masterplan – Approved 25 June 2010 with conditions.
 MSC application No 2 (20 Planning conditions) - approved 19 October 2010
 Renfrew Road Access on Scottish Water Land – approved 6 September 2010
 MSC application No 3 Planning Conditions Nos 15, 20, 32, 37, 39. Approval expected in November 2010.

3.3.4 Medical Equipment

Further updated draft issued end of September. A final version will be issued 11 October 2010.

3.3.5 Appendix K

Design documents for Appendix K being developed and submitted to Board for review. Board have reviewed many aspects of design already i.e. Architectural and M&E. This process may extent into November 2010.

3.3.6 Demolition

The demolition of Residential Blocks A, B & D; the Walton Centre and the Library is almost 100% complete, with minor works to grub up foundations outstanding for the Library. Demolition works to the Main Kitchen is due to start shortly followed by the Management Annex.

3.4 Stage 3 Adult's and Children's Hospital

3.4.1 Design

Linthouse Burn diversion proposals being finalised for submission to NHS Board, these had a preliminary review on 22nd October 2010. Further review will be undertaken as a result.

3.4.2 Procurement

Linthouse Burn diversion works scope defined. Tenders have been issued and are due for submission in October 2010.

Piling tender for Stage 3 due to be issued during November 2010.

3.5 Stage 3 Energy Centre

3.5.1 Design

Piling design tender information being finalised. Structure work in progress design issued.

3.5.2 Procurement

Piling works out to tender.

4. Design Development

4.1 Laboratory Project

Currie & Brown have now issued their 4th iteration of the equipment schedule and confirmation of service requirements was issued to Brookfield on 19th October 2010.

A full package of information has been provided by NHS / BCL to Ecoteric in respect of BREEAM, further detail has now been provided and comment from BREEAM assessor is awaited.

Reviewable design data is being submitted to the Board for approval.

Wallace Whittle information is being scrutinised with a view to assist with accuracy of detail in conjunction with Mercury. Plant schedules continue to be issued

A review of the waste management yard has taken place with changes being proposed by the board in respect of hydrogen storage.

- **Building Control**

The Stage 2 warrant , approved on 26th August 2010 has now been received.

The Stage 3 warrant application has now been made to building control with an advised review period not being sooner than four weeks.

- **Planning Conditions.**

The LPA have concluded their review of the A&C MSC2 application and approval was granted on 19th October 2010. A review to focus on Labs condition purification is proposed.

The table below outlines the current position of the planning condition in respect of the Labs.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring or continuance	Discharged (applied for)
09/01676/DC	32	9	1	6	18 (4)
Pre Start Condition	15				15

4.2 Adult and Children's

- Design

The 1:50 user groups are now completed with drawings being updated following ADB code changes.

Reports on area schedules have been provided and are to be reviewed against bid information and measured area.

The wind study has been completed and submitted to LPA with recommendations in respect of planting screening.

Review of AGV layouts have been concluded and agreed with the Board, and prototype sub base cart for NDC has been trialled using NDC cart and approved.

Successful meetings with the police and anti terrorism unit have taken place and formal feedback is awaited.

CDMC reports have been received following review of design and hazard registers with the consultants. Overall CDMC reports the consultants have an excellent awareness of their role in this regard with only minor comments being made. Review remains ongoing as part of the design process.

The Board have requested details of the ETFE roof, including its operation under fire. Details including arrangements to visit a similar installation are being made.

Substation location has been revised due to clash with HV cable.

Flood risk analysis has now been completed and review with the board to be undertaken.

Strategy for road construction consents has been reviewed and agreed with the board, subject to review of revised drawings by the Board.

- Building Control

Ward towers escape – minor details regarding, component test certification have been sent to the BCO and their response is awaited.

A further update meeting with BCO took place on the 30 September 2010 reviewing those issues already under discussion, and in particular those design issues that require alternate solutions to the building regulation guidance. BCO again confirmed that there was no show stopping issues, and a record of the matters reviewed has again been forwarded with notes detailing current position on design. BCO and Fire Authority, have been written to, noting that they should advise any inaccuracies within the tracker as the design is progressing on this basis. BCO again confirmed acceptance of the principle of the 'open courtyard' in terms of fire safety for the atrium, albeit CFD design review had yet to be undertaken.

Discussions regarding the building control fee have concluded with a total payable amount of £650k being agreed. Further negotiations regarding drawdown and the warrant design stage submission are drawing to a conclusion.

Warrant applications stages 1 and 2 for the Energy Centre have been made, locking the design into pre October 2010 legislation.

- **Planning Conditions.**

The table below outlines current position of planning conditions in respect of the A & C.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring or continuance	Discharged (applied for)
07/01158/DC	43	10	3	3	25 (5)
of which are Pre start Conditions	23	1	1		16 (5)

Positive dialogue continues with the planners and consultees to discharge remaining conditions.

The LPA have approved the MSC2 application (purification of 20 conditions) with points of clarification in terms of mock up panels, colours and detailing being requested. This sets out agreement to the external materials, SUDS and transport issues within the Brookfield site. Details on road junction upgrades through RCC requires further detail.

The authority have verbally reiterated their previous statement made in respect of the LABS that although technically some pre start may not be purified, they have no concerns given the progression to date, albeit we continue to press on with discharging prestart conditions.

The response to the application (MSC3) made for five further conditions being pursued from the LPA.

A section 56 application has been made and now approved for the temporary access position, which will be constructed to adoptable standard to become the permanent solution. A retrospective application for RCC will be made on the as built construction to attempt to negate relaying the road junction entrance

- **Appendix K**

Review meetings have taken place in respect of all strategy aspects of Appendix K and drawings are being updated, reviewed for cost and are being systematically submitted to the Board. Regular progress review meeting take place with Currie and Brown. Supplemental comments are being addressed by BCL.

BCL believe 90% of documents have been submitted to the Board (excluding 1:50's and RDS/EDS which continue to flow following changes to union codes requiring re-submission)

Fire Safety – meetings with the Board are ongoing, and work needs to be progressed in respect of the fire safety management procedures.

- **Mock Ups**

Clinical rooms are now to be used to refine detailing on issues such as IPS

Facade / landscape panels; drawings have been prepared for submission to the Authorities showing panels to meet requirements of decision notice

Acoustic chamber ; construction work has now been completed to build the chamber and testing to examine for possible VE solutions will be undertaken from the end of October 2010

4.3 Board Matters

Drafting of Management strategies to accord with the design are to be continued in respect of the following;

- Development of Fire Safety Management Procedures
- Development of Disabled Access Statement
- Provision of Aseptic suite URS and VMP
- Continued development of FM management strategies

5. Construction and Logistics

5.1 Laboratory Project

All substructure and ground floor slab concrete works have been completed with the exception of atrium entrance areas held for turnstile co-ordination purposes

Internal Drainage is also complete and external drainage ongoing within service yard area.

Works are now complete to all Core walls. Roof slabs will be completed once the steel stair cases are installed.

Concrete columns and walls are complete to underside of first floor with First Floor slab installations ongoing to the remaining outstanding slab within area 6 in Zone 4

Slab works are complete to area 1 on Level 3 (part of Zone 3), area 1, 2 and 3 on Level 2 (Zone 3 and part of Zone 2) and area 1 through to area 5 on Level 1. POD area floor slab complete up to Level 2

Level 2, Zone 1 and Zone 2 floor slab now complete. This includes commencement of precast column installation between levels 2 and 3, from and through level 3 decking.

Forthcoming Works:

External drainage currently ongoing to service yard to be complete.

Third Floor slab to be complete in POD area. Concrete columns between levels 2 and 3 are to be complete with false work to Level 3 now commenced.

Works to stair cores to continue with precast stairs installation to stair core 4.

Envelope works to commence to Zone 3 area with Metsec and Wall liner. Also unitised cladding surveys for bracket installation anticipated to also commence. This work will commence in early November 2010

Fitting out works to Commence to Zone 3 (Level 1) with installation of head tracks and priority partitions in November 2010.

Structural Steelwork to commence also to Zone 3 area.

5.2 Logistics

- No changes have been made to logistical operations on site.
- Demolition materials will commence exiting through Gate 6 week commencing 1st November 2010.

5.3 Site Establishment

- An additional drying room has been installed to improve air circulation around clothing. Additional lighting had been erected around the compound area in preparation for the winter months.

Phase 2 – Office/Welfare Facilities

Foundation design and checks carried out, final set out and drainage requirements in progress.

Drawings for cabin layouts agreed and approved specifications to be finalised. Cabins at Peterborough being vacated and upon FBC will be refurbished and alterations made to partitioning in preparation for delivery on the 17th January 2011 in accordance with agreed WACO programme. (Dependant on the possession of the Ambulance Station site on 6.12.10).

5.4 Security

- Police have increased their patrols and are investigating a recent site incident.

5.5 Stage 2 Works

Design work has been focused on FBC requirements however BCL have required Construction Information for the following early works:-

1. Hardgate Road 33KV Substation construction (start date 6.12.10)
2. New road construction at Hardgate Road entrance. (start date 25.10.10). Note budget restriction on these works.
3. Energy centre piling and foundations (start date 10.1.11)
4. Retaining walls north boundary and return to communications mast (start date FBC award)
5. Linthouse Burn diversion (start 29.11.10)
(Subcontract award within next two weeks, details of phasing subject to agreement with Board).
6. Tree removal permission has been received and this will commence 1.11.10.
(Dependent upon method statement approval and Board approval of programme/logistics)
7. VIE/Oil Tanks/Sub Station
Discussions continue with the Board to agree if move is required, potential removal dates, reasons for, and new locations of the above as well as technical consideration for moving facilities.

5.6 Demolition

Asbestos removal is complete to all buildings other than the Management Annex which is in its second week of removal and one more week after this to completion.

Phase 1. Demolition – Residential blocks B, A, and D will be complete and materials cleared by the end of October 2010. Walton and Library buildings have been demolished but some materials to be removed off site and foundations yet to be grubbed up and disposed of. (Note a section of the library foundations cannot be removed until after diversion of the Linthouse Burn, breaking out of this has a potential to collapse the brick built culvert). Phase 1 anticipated completion date end of next week (by 29.10.10)

Phase 2. Demolition - Main Kitchen and Dining, will commence Thursday 21.10.10 or Friday 22.10.10 (depending on water supply availability). Management Annex, anticipated commencement date for demolition 1.11.10 following asbestos removal.

BCL expect an improvement to Reigarts submitted programme of 16 weeks currently showing completion 17.12.10, due to additional asbestos (Type 2 to Type 3 survey). Completion date targets; Kitchen 22.11.10, and Management 29.11.10.

Demolition has been arduous due to unanticipated foundation construction to Phase 1 buildings. In addition to the above, excavations are still to be backfilled before Heras fencing is removed/realigned.

5.7 Mock ups

BCL have now received Boards comments on mock ups and arrangements are in progress to make alterations to the children's bedroom and en-suite to incorporate board and BCL/consultant comments.

These must be complete in time to re-inspect , photograph and dismantle before lease finishes at Christmas 2010.

5.8 Waste Management.

A final meeting to be held with Michael Owens of Skipeze to discuss SEPA licence requirements. (Mark Richmond of WSP to attend). Start date and office/welfare waste management.

5.9 Staff New Starts

- Tricia Campbell started on 27.9.10 in Document Control.
- Peter Norton's transfer date from Peterborough will now be 25.10.10
- Dean Sykes (MEL) is temporarily on site in place of Paul Bidecant.
- Peter Beauchamp is due to transfer from Peterborough on 1.11.10
- No other new starts or transfers are anticipated during November

5.10 Stage 3 Structure

Design and methodology for Adult and Children's block, including tunnels and basements is under review. Derek Robsons suggested option for increasing basement size and reducing wall length is being further developed and costed.

6. Project Supervisor

6.1 Executive Summary

Visits to the site during September indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Project Executive Plan. We continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with our visual site inspections. We also continue to be assisted by the site teams in obtaining information and have had a number of ad hoc meetings with them. Communication with the project team members is via Aconex and is now well established and we are now receiving a steady flow of drawings, specifications and other information.

Throughout, the standard of workmanship is very high with good quality finish to concrete surfaces being obtained and operations carried out in an efficient manner. During the September structural works have progressed significantly in all areas. The west wing 1st floor slab is completed, the 2nd floor approximately 2/3rd completed with falsework commenced for the next floor. The use of precast columns in this area appears to be working satisfactorily. Mortuary floor zero is completed and falsework ongoing for the next floor. In the pod area the first floor has been cast and falsework together with reinforcement well advanced for the 2nd floor. In the central area falsework erection to the first floor is ongoing. Extraction of the temporary sheet piling has been completed and drainage works externally and internally are progressing.

Examination of quality records to date for concrete has not indicated any problems, and the works in general appear to be progressing in accordance with the Client's requirements and with due regard to Health & Safety issues. In their weekly progress reports, Dunne indicate that they are 2 weeks ahead of their contract completion date.

6.2 Design Compliance Check

The drawing and specification information issued on Aconex indicates that the design is in accordance with the Project Executive Plan.

Drawing and Construction information continues to be provided by Brookfield.

6.3 Procedures Review

Performance

Throughout, the standard of workmanship is very high with good quality finish to concrete surfaces being obtained and operations carried out in an efficient manner. Generally the works appear to be progressing to programme and in accordance with the Client's requirements with due regard to health and safety. We continue to receive information which includes the following:

- Employer s Requirements
- Geo Environmental Report (URS)
- Ground Investigation Reports 1 & 2
- Brookfield PEP
- Labs Outline Floor Plans
- Stage E Structural Drawings (URS)
- Assorted reports re BREEAM, Green Travel Plans, etc
- Pile integrity and load test results
- Cube results to date
- Caltite waterproofing additive details
- Civil and structural drawings
- URS specification

Quality Assurance Procedures

Brookfield and Dunne have continued with their QA and checking procedures during the period. Examination of cube results has indicated compliance, with results for grade 40 frequently in the range 60 to 70N/mm², and for grade 50 in a range over 70 up to near 84N/mm². This high strength concrete has potentially allowed early removal of falsework in certain positions. Generally in respect of Dunne quality control and workmanship it is of note that to date Brookfield has not had to raise any formal notices of non-compliance to Dunne. We noted that there was damaged to the damp proof membrane at the perimeter of the floor slab and Dunes confirmed that they would include a sign off stage in their QA procedures. This would enable Dunes to record the remedial work and sign over procedure to Brookfield.

7. Commercial

7.1 Budget v Cost Plan – TP/MP


Adult & Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on the Target Price.

There has been 17 Nr Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties however 2 will only come to fruition post FBC.

Contract Award Target Price	£575,111,382
Compensation Event Notices Issued – formally Closed Out	-£394,127.10
Compensation Event Notices Issued – Estimated Value - awaiting close out	-£396,916.03
Current Estimated Contract Target Price	£574,320,338.31

7.2 Early Warning Notice

The following Early Warnings have been submitted to the NHS Board as at 20/10/2010:

<div style="text-align: right;">  </div>						
Sypro ID	NHS Ref No	Item	Date Raised	Status	Target Completion Date	Date Completed
6715	BCL-EW-001	Brookfield Value Engineering Items	13 January 2010	Value impact work in progress Focus on Tunnel Arrangement – Pack received by Board 01/02/2010		10/02/2010 (PM PMI 003)
6716	BCL-EW-002	Mobile Phone Mast Location	8 th February 2010	Works on-going to purchase land. EW to be closed out		22/07/2010
6717	BCL-EW-003	Utilities (1MVA) Power	10 th February 2010	Part of Scottish Power Quotation		13/04/2010
6718	BCL-EW-004	Utilities (11kv Breaker)	10 Feb 2010	Part of Scottish Power Quotation		13/04/2010
6719	BCL-EW-005	Utilities (Moving 11KV Circuit Breakers) – Hospitals	17 th February 2010	Part of Scottish Power Quotation		13/04/2010
6720	BCL-EW-006	Utilities (Moving 11KV Circuit Breakers) – Labs	17 th February 2010	Part of Scottish Power Quotation		13/04/2010
6721	BCL-EW-007	Discovery of Foundations and Brickwork (Labs Site)	3 rd March 2010	Dunne's have removed foundations and brickwork.		8/04/2010 (PMI/General /013)
6722	BCL-EW-008	Planning Issues (Labs Render)	4 th March 2010	Agreed at EW Meeting 17/06/2010 to close EW out		17/06/2010
6723	BCL-EW-009	Planning Issues (Adult and Children's Render)	5 th March 2010	Planners signed off all materials presented. Mock-up panels will be prepared. Agreed this EW to be closed out.		13/10/2010
6724	BCL-EW-010	Repositioning of Labs Building	8 th March 2010	Cross reference with PMI / General / 008 and PMI / General / 009		10/03/2010 (PMI/General /009) PART OF STAGE E
6725	BCL-EW-011	Water Main within Basement Footprint	9 th March 2010	Water main being diverted 13/03/2010		08/04/2010 (PMI/General /014)
6726	BCL-EW-012	Access Road serving the laboratories	19 th March 2010	Request for instruction to extend the access road. NHS confirmed that this work will not be undertaken post FBC. This EW to be closed out		10/06/2010
6727	BCL-EW-013	Laboratories Tunnel	29 th March 2010	Request to construct the Labs tunnel beyond the extents of the new access road. NHS confirmed that this work will not be undertaken post FBC. This EW to be closed out		10/06/2010

Sypro ID	NHS Ref No	Item	Date Raised	Status	Target Completion Date	Date Completed
6728	BCL-EW-014	Increase in Building Control Fees	14 th April 2010	BCL met with Building Control w/c 16/08/2010. GW has negotiated cost to circa £600k. BCL identifying stages of application. GW to discuss with DR utilising Stage 2 monies. Agreed this EW to be closed out		26/08/2010
6729	BCL-EW-015	Junctions at Govan Road	14 th April 2010	NHS confirmed that SW have advised that they are unwilling to alter their junctions at Govan Road. WSP to be asked if GCC can serve a left turn only enforcement notice on SW. Junction information indicated on Masterplan submitted end April and VISSIM model shows no impact on junction. RCC will conclude this issue. WSP have provided 2 options. AS spoke to SW and their response is awaited. Anticipate GCC will condition this issue. BCL awaiting feedback.		
				Discussion re private or adopted road. PM view that road should be private but built to adoptable road standard. DS agreed to discuss with Jim Miller. BCL to be instructed not to submit Section 56 application and instead do RCC. BCL furthering RCC discussions with GCC. BCL are in process of identifying items for Section 56 which Board needs to undertake. Drawing prepared indicating phasing of RCC application. Meeting to be arranged with PM + AS w/c 13/09. BCL to arrange meeting with AS & PM to discuss WSP sketches regarding island on road and taxi rank. NHS to arrange meeting with AS, DS, PM, DH & WSP BCL confirmed the roads as Neuro to Hardgate (Section 56), Existing entrance (Section 56), the Boulevard (RCC). The only debate outstanding is SW. New road at sub-station is a stage 3 cost however is needed in stage 1 works. AS confirmed that the costs for these works are not in the Board cashflow until March. BCL to provide cost saving/efficiency of undertaken works now and an indication of costs sacrificed for not doing works now.		
6730	BCL-EW-016	Kitchen Relocation from level 3 to Basement	14 th April 2010	NHS team obtaining still to obtain formal Board sign off however AS confirmed that BCL can undertake kitchen relocation from level 3 to the basement. NHS will raise a CEN.		1 st July 2010

Sypro ID	NHS Ref No.	Item	Date Raised	Status	Target Completion Date	Date Completed
6731	BCL-EW-017	Compatibility of the existing Kitchen cart/trolleys and the Proposed AGV Robotic System	15 th April 2010	<p>Karen Connelly advised that AGV compatible carts are available from suppliers. Costs and precise numbers of required carts being prepared.</p> <p>BCL to identify a contribution towards the costs of new carts in place of the costs to make carts adaptable.</p> <p>GW confirmed that Swisslog had agreed to install transponder units at no extra cost as advised during a visit to Oslo.</p> <p>Board trying to identify alternative way to load NDC carts onto AGV sub-bases without the requirement of lifters. The Board are also trying to reduce the number of sub-bases required.</p> <p>DR advised that there was confusion over the cart lifter costs. Board team advised cart lifter cost is £20k. DS advised that an operational management doc has been prepared for NHS and NHS will need to take ownership off. DR to get update on NDC carts.</p> <p>AGV presentation given to FM, BCL currently running alternative simulations. BCL to confirm numbers of cart lifters and conversion carts required.</p> <p>BCL to confirm cost of a) cart lifter, b) provision of conversion carts and c) % contribution towards the Board purchasing new carts.</p> <p>Trial of sub-base for NDC Carts took place. Design changes being progressed. Compatible carts being provided by the NHS.</p>		

Sypro ID	NHS Ref No	Item	Date Raised	Status	Target Completion Date	Date Completed
6732	BCL-EW-018	Service drain to the side of the Laboratories Building	21 st April 2010	1 – Children's hospital drainage – NHS confirmed the children's hospitals drainage works had been agreed. NHS will raise a CEN 2 – Attenuation. BCL will raise the attenuation issue as a separate EW. NHS confirmed that attenuation works could not be undertaken until post FBC.		1 st July 2010
6733	BCL-EW-019	Purchase of land from Scottish Water	21 st April 2010	No issues. CLO and Project team progressing land purchase. Agreed this EW to be closed out.		26/08/2010
6734	BCL-EW-020	Contamination within Water System	21 st April 2010	Agreed this EW should be closed off.		05/08/ 2010
6735	BCL-EW-021	Discovery of Flammable Gas within Ground in Basement	7 th May 2010	CE 013 issued, EW to be closed.		16/09/10
6959	BCL-EW-023	Design development of the Substation within the car park resulting in a reduction of available parking space.	21 st May 2010	PMG agreed this EW should be closed off		25/05/2010
6960	BCL-EW-024	Roof top Helipad	21 st May 2010	Agreed this EW to be closed off.		10/06/2010
6961	BCL-EW-025	Car Park 1 Conflict with Masterplan	21 st May 2010	NHS confirmed no conflict. EW to be closed off.		10/06/2010
6967	BCL-EW-026	External Walls: Copper Cladding to Columns	27 th May 2010	Cost information provided by BCL and reviewed by Board team.		28/06/2010
6968	BCL-EW-027	Swisslog Robotics (stage 3)	27 th May 2010	BCL agreed to put in additional bay. BCL to check if this EW can be closed off. DMCF agreed this EW can be closed off.		
6972	BCL-EW-028	Moveable Vertical Fins to Laboratory Pod	2nd June 2010	BCL to provide modeling information and demonstration re moveable fins v's static fins. BCL indicated potential early cost saving calculation as £150K. NHS to raise PMI and EW to be closed off.		23/07/10 PMI / General / 025
6987	BCL-EW-029	Building Control concerns over sub-compartmentation exits from wards	29 th June 2010	Closed – Refers to NHS-EW-015 (6895)		30/06/2010
6993	BCL-EW-030	Proposal to change escape stair and mortuary stair handrails	16 th July 2010	Board to consider changing mortuary stair and escape stair handrails to painted stainless steel. Closed – Cross reference with PMI / General / 026		30/07/2010

Sypro ID	NHS Ref No	Item	Date Raised	Status	Target Completion Date	Date Completed
7009	BCL-EW-031	Delay in Commencing Demolition works to Stage 3 Site	6 th August 2010	<p>Demolition works commenced on 31st August 2010. May be an issue re amount of asbestos found in Management Annex. DMF to raise EW re Asbestos. BCL confirmed asbestos costs had been provided to DR for review.</p> <p>Adien survey issued to BCL, gas, water and comms currently being marked up on drawings showing services and isolation.</p> <p>BCL to provide demolitions programme. PM confirmed that he had provided all the information to Dave Jordan and there had been agreement that the demolitions could commence with the gas pipe still being live. BCL to check if any information is outstanding. BCL to confirm that programme finish date is still achievable. To be closed out by midday on Friday 24/09.</p> <p>Demolitions have commenced. BCL to issue revised programme.</p> <p>Asbestos removal costs to be confirmed prior to closing EW. Costs being finalized. Contingent Board sum to cover has been identified. Programme amended to remove from critical path. Board liaising with Enviraz re asbestos survey.</p> <p>Demolition works on programme. Looking to accelerate works programme and re-programme the drainage works to the far corner of the SGH site</p>	24/09/2010	
7010	BCL-EW-032	Discovery of Existing Gas Pipe Running Through Site	13th August 2010	Agreed to be closed out		13/10/2010
7014	BCL-EW-033	External Windows (Tower) – Addition of obscure film to windows	18th August 2010	Agreed to close EW.		16/09/2010
7018	BCL-EW-034	Potential Value Engineering M & E items for consideration	19th August 2010	<p>NHS reviewed list and prioritization exercised has been carried out. NHS will organize a meeting with Ian Powrie to discuss prioritization list.</p> <p>Reported that a decision on renal dialysis air change requirements is needed asap. Board confirmed that renal dialysis air change discussions have commenced. Other VE items to be discussed post FBC.</p> <p>BCL to provide indicative VE costs</p>		

Sypro ID	NHS Ref No	Item	Date Raised	Status	Target Completion Date	Date Completed
7020	BCL-EW-035	Revised lift strategy for Adult & Children	23rd August 2010	<p>NHS requested drawing/key in order to clarify the proposal. BCL have provided drawing/key to location of lift cores. NHS to review this information. Meeting to be arranged to take Project Team through proposal.</p> <p>DH confirmed that comments had been fed back to DP. DH to liaise with SG re clinical requirements for helipad lift.</p> <p>Board have confirmed modifications. Board awaiting revised drawing for Appendix K. BCL to advise on VE cost.</p> <p>C&B to review revised proposal. Lift capacity information to be confirmed to BCL. Loading route at 20 ton capacity maybe higher than expected – Board to confirm</p>		
7468	BCL-EW-036	Increased NCH Renal Plant (2900/L)-Stage 2-Childrens Hospital	2nd September 2010	<p>The ITPD (Page 13 of Volume 2/1 appendix M&E 6 Renal Water) states a specific no of points. From the Appendix K Reviews – Children's dated 01/09/10, we understand there is a requirement to feed the Children's hospital from main plant for which there is no current allowance.</p> <p>NHS team to provide response.</p> <p>PMI to be issued requesting BCL to redesign. DP to be asked to meet with FWreath re potential solutions. Board team will then organize a meeting with appropriate renal water reps.</p> <p>Meeting to be scheduled of BCL (DP) & AS, PM and FW</p>		
7473	BCL-EW-037	Fire Service Facilities – Laboratory Basement	09/09/2010	The current FFL of the basement within the labs (approximate area/location as shown on the attached) does not accord with the guidance within the Non Domestic Technical Hand Book. BCL have met with building control and the fire service. Awaiting formal confirmation from building control. BCL to confirm confirmation received then risk to be closed off.		30/09/2010
7475	BCL-EW-038	Vision panels – Touch down bases	10/09/2010	<p>BCL propose to reduce the extent of the vision panels at touch down bases throughout the project. The proposed arrangement has been built at the mock up and visited by the NHS.</p> <p>PMI to be issued to confirm requirements.</p> <p>Drawing being updated as part of 1:50 process</p>		

Sypro ID	NHS Ref No	Item	Date Raised	Status	Target Completion Date	Date Completed
7583	BCL-EW-039	Updated Equipment Schedule	20/09/2010	<p>Equipment schedule requires discussion at a future risk reduction meeting. BCL confirmed that there are on-going discussions with Nightingales. Discussions on-going re equipment groups. AS confirmed that Equipment schedule certainty needs to be achieved by 30th September 2010.</p> <p>Equipment meeting held on 29/09/10 between F.Wrath and E.White, DH to discuss outcome.</p> <p>Equipment schedule agreed and currently being cost checked.</p> <p>BCL to provide schedule of medical gas points excluding compressed air. Board to check numbers</p>		
7586	BCL-EW-040	Flood Risk to meet planning requirements	21/09/2010	<p>BCL confirmed that a modeling exercise of the drains in isolation had been undertaken to ascertain current situation. Drainage design going forward cannot make the flood risk any worse. Have identified an area which will flood and therefore will require extra attenuation. Topographic modeling works being undertaken. SEPA requirements – can't build in a flood area – trying to ascertain if further works will need to be undertaken to ensure no flooding external to the site flows back onto the site.</p> <p>Awaiting WSP to issue 2 dimensional modeling.</p>		
7587	BCL-EW-041	Flood Risk outside the construction site	21/09/2010			

Early Warnings to be raised by BCL

Sypro ID	NHS Ref No	Item	Date Raised	Status	Target Completion Date	Date Completed
		Ground contamination (remainder of site)		<p>2 hot spot areas (asbestos and fluorocarbon) have been identified. Potential for problems from SEPA. Ground gases identified and proposing to deal with on an on-going basis. Long chain hydro-carbons have been identified in 1 borehole and CO has been identified in a borehole at the Energy Centre location. WSP obtained readings consistently above 10% - concern raised that may be getting closer to the centre of increased gases.</p> <p>New directive indicated that GCC may refer ground gas and oil issue to SEPA.</p> <p>Board received summary report for review. Meeting required with BCL, Alex Lee, Board and URS. DH requested a copy of the appendix information. DH would provide feedback on the report asap.</p> <p>BCL had identified on-costs for the investigation works and for the gas monitoring. Issue re aquifer – found hazardous material however.</p> <p>DR report that URS had received the WSP summary report and are undertaking a comparison exercise to confirm risks that have been triggered. BCL responsible for gas monitoring costs.</p> <p>BCL to provide report on costs and monitoring.</p> <p>BCL obtained agreement from GCC to undertake water monitoring until 2012. BCL to undertake supplementary gas monitoring. BCL confirmed okay to go ahead with Borehole. Borehole not required until post FBC. BCL to check for any impact to helipad operation.</p> <p>Two EWs to be raised:</p> <ol style="list-style-type: none"> 1. Monitoring costs 2. Risk of contamination 		

		Transformer, VIE and Linthouse Burn – Relocation		<p>Discussed at PMG. Agreed that BCL should raise EW. BCL to confirm if these works are within their scope of works and confirm necessity of the works.</p> <p>Drawing of VIE position and impact on works to be issued to Board. Whole site to be included in drawing. Meeting to be held 12/10/2010</p> <p>Initial meeting held to discuss relocation of transformer, VIE and Linthouse Burn.</p> <p><u>Linthouse Burn</u> - Further session to be arranged to discuss detail of programme timing and what needs done.</p> <p><u>Transformer</u> – Board agreed to the request to move the transformer. Further detailed session required to discuss power. DP investigating alternate supply and options for shifting surgical sub-station</p> <p><u>VIE</u> – Further session to be arranged to discuss when the VIE needs to be moved and agree temporary location. Board team to liaise with Air Products re new tank being provided or existing tank to be moved.</p> <p><u>Oil Tanks</u> – Board agreed that Oil Tanks need to be moved. Need further session to discuss final location. BCL to provide back-stop date for this move.</p> <p>Further debate to take place between Board and Board's Estates Dept.</p>		
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The following Early Warnings have been submitted to BCL as at 25/10/2010




Sypro ID	NHS Ref No	Item	Date Raised	Status	Date Completed
6699	NHS-EW-001	Stage D to E Reconciliation	14 January 2010	Agreed to close out. Refer to CE 010	18/08/2010
6701	NHS-EW-002	Testing of Building Board Material on Site	21 January 2010	Complete - CE 001 Issued	11/03/2010
6704	NHS-EW-003	Japanese Knotweed Survey	21 January 2010	Complete- CE 002 issued	11/03/2010
6705	NHS-EW-004	Excavated Building Materials/Spoil	21 January 2010	Complete - PMI 004 issued, CE 003 issued	11/03/2010
6706	NHS-EW-005	Live HV Cable – SGH Site	27 January 2010	Complete - disconnect live HV cable	7/02/2010
6952	NHS-EW-006	Borehole water	15 February 2010	Complete - PMI 020 issued	23/06/10
6953	NHS-EW-007	Adult Hospital – Haemato-Oncology Area	12 th March 2010	Complete - PMI 021 issued	23/06/10
6954	NHS-EW-008	Oncology Ward - Specialist ventilation	16th April 2010	Complete - PMI 021 issued	23/06/10
	NHS-EW-009	REF NO – NOT USED			
6955	NHS-EW-010	Site Electrical Load	16th April 2010	Complete - PMI 019 issued	23/06/10
6956	NHS-EW-011	Patient Hoists and Structural Support	16 th April 2010	Refer to PMI 027 issued	10/08/2010
	NHS-EW-012	REF NO – NOT USED			
6957	NHS-EW-013	HV Generators	16 th April 2010	Closed out - Links to NHS-EW-010. PMI 019 issued	16/06/2010
6981	NHS-EW-014	New Children's Hospital – Theatre Recovery Area	21 st June 2010	Closed out – links to PMI/General/022	30 th June 2010
6985	NHS-EW-015	Adult & Children's Hospitals Fire Strategy	23 rd June 2010	Board wish to understand the BCL programme and plans to take forward the fire strategy Fire Strategy discussions ongoing with Building Control. Wards Fire Strategy now agreed. Atrium design analysis progressing. BCL to obtain written confirmation of the verbal communications already provided. Expected that full sign-off will not happen until full Building Warrant is submitted. BCL to provide 'non-compliance' list to Board for information. Board awaiting list and engineered solutions. BCL to obtain written confirmation on the verbal communications already provided by BC. Ongoing. Board awaiting copy of correspondence.	
7010	NHS-EW-016	Appendix K Review and Programme	10 th August 2010	BCL to issue latest updated Appendix K tracker to Board. Architectural 1:200 dwgs received. Other appendix K dwgs received are mostly M&E. Board to arrange for Capita and WW to review. 1:50 and Structural stamped dwgs awaited.	
6999	NHS-EW-017	Adult & Children's Hospitals Single Rooms - Bi-fold Doors En-suites.	30th July 2010	PMI/General/029 issued. EW closed.	16/09/2010

Sypro ID	NHS Ref No	Item	Date Raised	Status	Date Completed
6988	NHS-EW-018	AGV System - Adult and Children's Hospitals	29 th June 2010	<p>The Board will require to see the integration of the proposed system in full compliance with the Board's stated requirements and set out within the 1:200 departmental layouts prior to the final sign off of the layouts.</p> <p>BCL to liaise with Nightingales and provide drawings for review.</p> <p>Final layout plans reviewed by KC. Agreed to close off the EW.</p>	18/08/2010
7701	NHS EW 019	Adult & Children's Hospital Fire Alarm Cable	11 th October 2010	<p>The Board's brief requirement for fire alarm cable remains as MICC, with no alteration agreed and recorded as part of the Competitive Dialogue process. Brookfield have suggested that their bid offer includes for soft skin cabling in lieu of MICC.</p> <p>On VE Opportunities register therefore EW to be closed out.</p>	
7822	NHS EW 020	Roof Top Children's Garden	22 nd October 2010	The proposals submitted, as part of Appendix K supported by supplementary visual for the rooftop children's garden do not reflect the bid or subsequent presentations in relation to canopies providing privacy screening and/or weather protection.	
7823	NHS EW 021	Radiant Panels - Ensuites	22 nd October 2010	The Board wishes to consider the omission of radiant panels from en-suites which are currently required to achieve 1 degree c temperature rise from bedrooms, by varying the en-suite temperature to match the bedrooms.	
7877	NHS EW 022	Adult & Children's Hospital - Lift Cores F and G	25 th October 2010	In compliance with the SHTM requirement for goods lift load capacity the Board wish Brookfield to confirm that one lift within each of the lift cores E and F will be rated to 5 tonne capacity.	
7878	NHS EW 023	Laboratory Block - Robot Lift 4	25 th October 2010	The Board wish to upgrade the load capacity of this lift to 5 tonne. Brookfield are asked to review the cost and operational implications to AGV movements by this proposed change. Note RL 4 links between basement Level-1 and ground level only.	

7.3 PROJECT MANAGER'S INSTRUCTION

The following Project Manager's Instructions have been submitted to BCL as at 20/10/2010:

						
Sypro ID	NHS Ref No	Item	Date Issued	Actions	Target Completion Date	Date Closed Out
323	MB/PM/General/001	Stage 1 Laboratories – Start on Site Date	27 th January 2010	Closed out		27/01/2010
324	MB/PM/General/002	Revision to Contract Assessment Dates	8 th February 2010.	Closed out		08/02/2010
325	LAB / PM / General / 003	Laboratory Block – Tunnel Reconfiguration	10 th February 2010	Closed out as part of Stage d to e reconciliation. BCL to close out on Sypro. Ref CE 010		18/08/2010
326	PMI / General / 004	Excavated Materials / Spoil	23 rd February 2010	Closed out		10/03/2010
327	PMI / General / 005	Laboratory Project – Future Expansion	23 rd February 2010	Closed out as part of Stage d to e reconciliation. BCL to close out on Sypro. Ref CE 010		18/08/2010
328	PMI / General / 006	Laboratory Project – Basement Floor Level	26 th February 2010	Closed out as part of Stage d to e reconciliation. BCL to close out on Sypro. Ref CE 010		18/08/2010
329	PMI / General / 007	Laboratory Project – Ventilation to PM tables	26 th February 2010	Closed out as part of Stage d to e reconciliation. BCL to close out on Sypro. Ref CE 010		18/08/2010
330	PMI / General / 008	Laboratory – Stage E Civil & Structural Engineering Drawings	9 th March 2010	Closed out as part of Stage d to e reconciliation. BCL to close out on Sypro. Ref CE 010		18/08/2010
331	PMI / General / 009	Laboratory Project – Relocation of Footprint	10 th March 2010	Closed out		10/03/2010
332	PMI / General / 010	Laboratory project – Architectural drawings and NBS Specification	23 rd March 2010	Closed out as part of Stage d to e reconciliation. BCL to close out on Sypro. Ref CE 010		18/08/2010
333	PMI / General / 011	Laboratory Block – VE Review 1	25 th March 2010	Closed out as part of Stage d to e reconciliation. BCL to close out on Sypro. Ref CE 010		18/08/2010
334	PMI / General / 012	AGV System – Cart Washer	25 th March 2010	Cart Washer not required by Board. CE notified by BCL (CE 006) CE accepted by Board		9/06/2010
335	PMI / General / 013	Laboratory Project – Removal of Foundation from Old Rec Pavilion	8 th April 2010	Closed out No cost		08/04/2010
336	PMI / General / 014	Laboratory Project – Diversion of Water Main	8 th April 2010	CE notified by BCL (CE 004) CE accepted by Board		25/05/2010
337	PMI / General / 015	Removal of Japanese Knotweed (Bunded Area) Off Site	28 th April 2010	CE raised by BCL (CE 002) CE accepted by Board		10/06/2010
351	PMI / General / 016	Laboratory – Stage E – Mechanical and Electrical Drawings and Specification	17 th May 2010	Closed out as part of Stage d to e reconciliation. BCL to close out on Sypro. Ref CE 010		18/08/2010


Sypro ID	NHS Ref No	Item	Date Issued	Actions	Target Completion Date	Date Closed Out
356	PMI / General / 017	Laboratory Block – Mortuary (Basement Level -1) Room L-1/B/027	31 st May 2010	CE notified by BCL (CE005) CE accepted by Board		24/06/2010
367	PMI / General / 018	Laboratory Project-Mortuary X Ray Room L1/B/027	17 th June 2010	To be read in conjunction with PMI / General / 017 Board to progress change through internal change control process. Board to raise CE once approved. CE 012 raised.		09/09/2010
368	PMI/General/019	Change to Electrical Load requirements	23 rd June 2010	Linked to NHS-EW-010 and NHS-EW-013. BCL advised that revised costs uploaded. Costs circa £595k + OH & P. Board to raise CE. CE 015 raised		16/09/2010
369	PMI/General/020	Borehole Water Supply	23 rd June 2010	Board reviewing cost information received from BCL CE event raised by BCL. Board pursuing confirmation letter from Business Stream. Confirmation letter received. NHS to upload to Sypro. GW to review costs NHS team need to understand at what point there is a risk i.e. to Labs. SI Survey rep to be asked for a response. NHS team awaiting advice from Alex Lee re water leeching round site. Once final advice received then change will be progressed through Board's CCP. Subject to FBC approval Board will take forward. On VE Opportunities register.		
370	PMI/General/021	HAEMATO-ONCOLOGY WARD	23 rd June 2010	Links to NHS-EW-007 and NHS-EW-008 BCL confirmed cost saving as 8 x £800. CE 014 raised		09/09/2010
375	PMI/General/022	New Children's Hospital – Theatre Recovery Area	30 th June 2010	Links to NHS-EW-014 (Sypro 6981) CE 016 raised		16/09/10
381	PMI / General / 023	Stage 3 Adult Hospital CCU Bed Bay Dividers	8 th July 2010	Costs circa £ £180k. Board to confirm acceptance of costs. CE 017 raised		16/09/10
383	PMI/General/024	Laboratory Block – Fire Alarm Cable	09 th July 2010	BCL to provide costs to substitute Prysmian FP200 plus cable system in lieu of MICCE cable system. Cost uploaded to notes section by BCL and under review by NHS team Agreed PMI to be closed off. Cost saving circa £40k		12/08/2010

Sypro ID	NHS Ref No	Item	Date Issued	Actions	Target Completion Date	Date Closed Out
384	PMI/General/025	Laboratory Project – Fixed Sun-shading Fins	23 rd July 2010	Links to BCL-EW-028 Board confirmed that Brookfield may proceed and install fixed sun shading fins to the office pod of the Laboratory Block in lieu of moveable fins. Agreed PMI to be closed off		12/08/2010
386	PMI/General/026	Laboratory Block Fire Stair Handrails and Balustrades.	30 th July 2010	Links to BCL-EW-030 NHS team confirmed that they did not wish to pursue this proposal and therefore handrails to general escape stairs and mortuary basement areas to remain as specified i.e. stainless steel The EW to be closed off.		26/08/2010
391	PMI/General/027	New Adult and Children's Hospital Ceiling Mounted Hoist requirements	10 th August 2010	Links to NHS EW 011 (Sypro 6956) Board confirmed specifications and numbers of patient hoist requirements. Discussed whether this item would be a VE. NHS team confirmed that this would not be a VE and would be a change to target price. GW indicated that initial costing identified as £2.2m (net). Identified that approx £9k remains in BCL cost plan to purchase the remainder of the hoists. Board to confirm acceptance of costs.		
395	PMI/General/028	New Laboratories IT review	26/08/2010	Agreed EW to be closed off		07/10/2010
399	PMI/General/029	New Adult and Children's Hospital – Single Rooms Bi-fold doors to En-suites.	16/09/2010	Agreed EW to be closed off. (BCL VE Item)		23/09/2010
401	PMI/General/030	Laboratory Project – Rationalisation of Disposal Holds	20/09/2010	Board undertaken a review of disposal hold areas at each floor within the building and as a result require to reconfigure a number of spaces to provide suitable space BCL to provide costs for Board review. PM is liaising with the NHS Labs Project Manager. Board progressing through Board's Change Control Process.		

Sypro ID	NHS Ref No	Item	Date Issued	Actions	Target Completion Date	Date Closed Out
402	PMI/General/031	Piped Liquid Nitrogen Provision	23/09/2010	<p>The Board wish to establish the feasibility and cost of relocating the liquid nitrogen storage vessels from within room L0/B/040 to an external location within the service yard area.</p> <p>BCL advised indicative costs for the proposals were £12,766 inc OH & P).</p> <p>Wallace Whittle to confirm if original design works. Board awaiting written confirmation that design works.</p>		
408	PMI/General/ 032	Vision Panels for the Touchdown Space	21 st October 2010	Change to glazing arrangement		
410	PMI General 033	Laboratory Block / Laboratory Store L0/B/014	25 th October 2010	Sub division of store to provide separate room for -80 deg C freezer this is a safety and functional requirement.		
411	PMI General 034	Laboratory Block Access Requirements	25 th October 2010	The Board wish to establish the cost and practicality of the undernoted out of hours access requirements.		

7.4 COMPENSATION EVENTS

The following Compensation Events have been submitted as at 20/10/2010:

				
Sypro ID No	NHS Ref No	Item	Date Issued	Status
4294	CE 001	Removal of Asbestos Building Board	10th March 2010	Agreed
4295	CE 002	Removal of Japanese Knotweed	10th March 2010	Agreed
4296	CE 003	Removal of Excess Spoil	10th March 2010	Agreed
4451	CE 004	Water Main within Basement Footprint	25 th May 2010	Agreed
4501	CE 005	PMI / General / 017 - Laboratory Block - Mortuary (Basement Level -1) Room L-1/B/027	3 rd June 2010	Agreed
4528	CE 006	AGV System - Cart Washer Removal	9 th June 2010	Agreed
4632	CE 007	Labs Project - Copper Cladding to external columns	28 th June 2010	Agreed
4660	CE 008	Kitchen Relocation from level 3 to Basement	02 nd July 2010	Agreed
4661	CE 009	Service drain to the side of the Laboratories Building (BCL-EW-018) Sypro 6732	02 nd July 2010	Agreed
4864	CE 010	Laboratory Project Stage 1 - RIBA Stage D to E Reconciliation	18 th August 2010	Agreed
4676	CE 011	Borehole water supply	7 th July 2010	To be concluded post FBC
5055	CE012	Laboratory Project – Mortuary X-Ray Room L1/B/027	16 th September 2010	19/10/2010
5054	CE 013	Laboratory Project – Discovery of Ground Gas	16 th September 2010	TBC
5056	CE 014	Adult Hospital – Haemato-Oncology Ward Air filtration	16 th September 2010	Agreed
5057	CE 015	Change to Electrical Load Requirements	16 th September 2010	Agreed
5058	CE 016	New Children's Hospital - Theatre Recovery Area	16 th September 2010	Agreed
5061	CE 017	Adult Hospital – CCU Bed Dividers	16 th September 2010	Agreed

7.5 MONTHLY PAYMENTS

Assessment nr 9 was processed and issued 20th October 2010 as follows:

PSCP	Stage 1	£	18,412,523.00
	Stage 2	£	13,776,679.00
	Stage 3	£	
	Stage 3A	£	
	PSCP Work Done to Date	£	32,189,202.00
	Deduct retention free amount £	£	0.00
	Sub total	£	32,189,202.00
	Retention	£	-1,172,033.00
	Sub total	£	31,017,169.00
	Deduct previous payments	£	26,770,401.00
	Sub total	£	4,246,768.00
Add VAT %	17.50%	on £ 4246768	£ 743,184.40
	Amount due	£	4,989,952.40

7.6 CASHFLOW

It is noted that the contract as agreed did not identify provision for payments for materials, plant & equipment out-with the "working area". BCL have made a proposal to NHS GG&C to extend the "working area. This is currently under review".

Contract Cashflow Projection for September 2010

Stage 1 (net)	£17,914,820.00
Stage 2 (net)	£13,485,516.00

8. Commissioning

8.1 ADULT & CHILDREN'S HOSPITALS

A first draft of the proposed commissioning plan has been submitted to The Board's Acute Services Redesign Group for comment. This plan includes a commissioning structure with suggested membership for each group to ensure a comprehensive approach is taken to prepare and implement the transfer to the new hospitals from all demitting sites.

The proposed programme outlines the migration of services over a five month period from February 2015, based on the assumption that the hospitals will be 'technically ready' by 31st January 2015.

The clinical services to transfer were broken down into six groups with the Adult Out-patients & Therapies being the first group to migrate. The vacated areas on the existing Southern General campus will subsequently be refurbished to provide office accommodation for Yorkhill staff and this will in turn facilitate the transfer of all services from Yorkhill.

A sample mapping exercise was undertaken to plot the movement of the first group from their existing sites into the new accommodation within the hospitals.

A representative from the Board's Project Team, Karen Connelly, will be shadowing the commissioning team at Peterborough Hospital for a week from Monday 25th October as they prepare to open the new hospital to its first patients in mid November. A report will be provided to the project team on my return.

8.2 NEW LABORATORY PROJECT

A full Laboratories Commissioning Plan is currently being finalised. This plan will include a comprehensive migration programme for each satellite Laboratory moving into the new facility; detailing timelines, responsibilities, staff migration, equipment transfer and communication processes.

The provision for fume cupboards and safety cabinets in the new Laboratory Block continues to be discussed. Both transfer and procurement options are currently being reviewed. The Project Team is conducting an exercise to confirm user requirements for each individual cabinet. Different procurement methods will then be tested and compared with transfer options to confirm the best value for money option.

An equipment gap analysis was carried out to identify the shortfall between equipment transferring to the new Labs and the requirements. This list has been costed by NHS Procurement. Further work will be conducted over the coming months to fully plan the migration of equipment into the new facility.

Further key pieces of ongoing work are highlighted below:

- Work continues on the development of the Operational Policy for the new Laboratory.
- The Transport Specification has been finalised.
- The Managed Service Contract has been put out to tender and is scheduled to be awarded by 1st February 2011. Three suppliers have indicated interest.
- Four Staff Roadshows have taken place and more are scheduled to run until the end of October 2010.
- Progress has been made in identifying current FM input into existing Laboratory sites. The domestic and porter hours required for the new Laboratory have also been identified. This information will be used to develop staff rotas in conjunction with the Re-design and Transformation group.
- The Laboratory Communication Strategy and first Laboratory Newsletter have been made available to all NHS staff via the NHS GGC Staffnet Intranet site.

9. ENABLING WORKS

9.1 Scottish Water Land

The Central Legal Office is in consultation with Scottish Water's solicitor and is drafting an agreed offer.

WSP have been instructed to design and tender the access road which is a requirement of the land purchase.

The estimated completion of legal process is November 2010 with site possession in January 2011.

9.2 Scottish Ambulance Service (SAS)

The Central Legal Office is working on the agreed offer and legal agreements. The SAS move from Shieldhall is planned to take place in late November 2010.

Johnstone

The SAS continue to occupy the Management Block under the beneficial access agreement.
No issues to report.

Leverndale

The Estates Department has been relocated to the Central Block at Leverndale Hospital.

The construction of the new accommodation and car park is on programme to complete for 6th November 2010.

The Scottish Ambulance Service will move accommodation during week commencing 6th November 2010. Quotes are being invited for companies to undertake the removals.

The Leverndale base will be operational on the morning of Mon 15th November with the live transfer of telecoms/ comms.

An informal introductions meeting is to be held with Leverndale Service Management/ Facilities/Estates during week beginning 6th November 2010 with attendance by key members of the Scottish Ambulance Service.

SAS motor transport workshops will be vacated week commencing 6th November 2010.

The tender for dismantling works are due to be received on Friday 29th October 2010 with works starting on 15th November 2010 for a 3 week contract.

Structural drawings of existing building slabs have been passed to Brookfield which are expected to be suitable for cabins saving substantial time and expense.

9.3 Helicopter and Construction Works Interface

The Helicopter Management Plan processes are working on site with no issues reported in period.

Weekly Construction Works Interface meetings are ongoing and working well, currently working in partnership with Board Facilities staff to achieve demolition of existing buildings with minimum disruption to Hospital users.

A meeting with Strathclyde Fire Brigade took place and agreement was obtained to relocate the fire tender.

9.4 Demolition Works

- Work is ongoing with the removal of the material left from Residencies A and D, along with the basement of D which is being broken up at the same time.
- The material left from the Walton and library will be next to be removed. The basement of the Walton needs to be pecked away, but part of the library basement will remain as it is above the culvert.
- The contractor is planning on starting the demolition of the kitchen on the coming Monday (25th October 2010). The remainder of the asbestos removal should be complete in the management annex by the end of next week (W/C 25/10/2010).

10 Appendices

Appendix 1 – Site Progress Photographs



New South Glasgow Hospitals and Laboratory Project

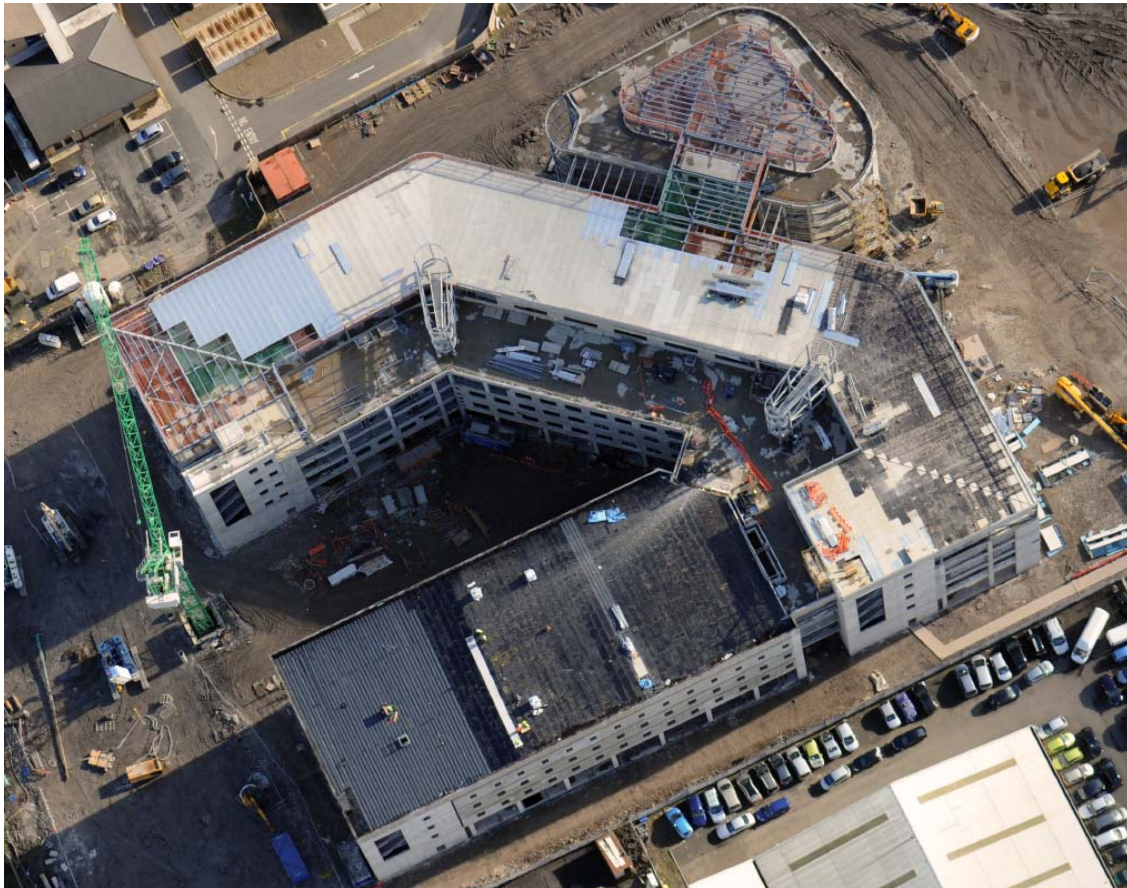
NHS Greater Glasgow & Clyde

and

Brookfield MULTIPLEX

Monthly Progress Report

March 2011



**Brookfield
MULTIPLEX**

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2 Health Safety and Environment

3 Programme and Progress

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Appendix A - Site Photographs

Appendix B - 6 Week look ahead programme Stage 1

Appendix C - 6 Week look ahead programme Stage 3

Appendix D - Procurement Schedule

1. EXECUTIVE SUMMARY

1.1 Introduction

The Joint NHS /Brookfield MULTIPLEX Project Team are continuing to work on a range of tasks to ensure that the Project remains on programme i.e.

- Management and Construction of Stage 1 Laboratory and 33Kv substation on site
- Management of Risk and Change
- Cost control and management of NEC3 processes (EW/PMI/CE) for stages 1 and 2
- Stage 3 Enabling Works

The notes below summarises some of the key points from the detailed reports that are included in the following sections:

1.2 Health and Safety

No RIDDOR or serious injuries to report this month.
4 minor injuries reported on site.

1.3 Programme and Progress

The following programmes have been included in this report:

- Stage 1 Laboratory 6 week lookahead programme Week 62 BM-GS1-WK-0075
- (see Appendix B)
- Stage 3 Adult & Children's Hospital 6 week lookahead programme Week 62 BM-GS3-WK-0004 (see Appendix C)

A detailed Procurement Schedule is available in Appendix D

1.4 Design Development

a) Laboratory Project

- Review of version 07 of the equipment schedule incorporating changes to the 'Managed Serviced Equipments' is near completion. BM have compiled a list of agreed Group 1 items for agreement and sign off by the Board.
- BREEAM is nearing conclusion with all information provided and update required from Ecoteric.
- Fire & CCTV strategies are now concluded with the issue of the NHS PMI.
- All comments from BCO on the Warrant 3 submission have been met and approval is now expected, BCO comments to Stage 4 warrant (M&E) are being responded to by the consultants.

b) Adult and Children's Hospitals

- Work continues to mitigate any delay, caused by the disruption related to the NTP, with progress being made.
- All appendix K submissions have been made; approximately 50 documents remain to be signed, a list of outstanding items is being prepared by Brookfield Multiplex.
- Fire Safety meetings continue with the Board, good progress has been made in respect of extinguishers, call points, cause and effect and sprinkler exclusions.
- Ground conditions - Monitoring in respect of ground conditions is ongoing with confirmation from the Authorities that the proposals in respect of the Energy Centre are acceptable
- Medical planning - Pre user groups reviews have progressed with few issues, the 1:50 protocol document is in place to identify and monitor Change Control
- A series of meetings with Building Control has been established, fortnightly on a Tuesday.

1.5 Construction and Logistics

a) Laboratory Project

- Watertightness in the Laboratory Block is a continuing problem, the origin of the problem stems from the inclement weather in December which has been exacerbated by similar weather since the turn of the year. To reduce the impact of this issue BMC have undertaken to introduce mitigation measures to the building.
- All key package contractors have reviewed the revised programme proposals and have committed to the changes made to secure completion.
- Continuous programme monitoring will identify any other key actions required to help with continuing programme momentum

b) Adult and Children's Hospitals

- Pile mat is virtually completed in preparation for a 28 March 2011 pile commencement date. A concrete slab is being cast for the Bentonite tanks due during w/c 21 March 2011.
- BMC continue to work on the basis that all cars will be off site by the 4th April following the opening on Car Park 1A.
- No date has yet been given for BMC access to Scottish Water acquired land by the Board. An imminent start by Board contractors to construct new mast access road is anticipated within the next week or two.

c) Other General Matters

- **Energy Centre** - BBGE will complete piling and remove equipment by 18 March 2011 (except for king post retaining wall construction to Scottish Water boundary). Dunne's will commence pile cap and substructure works on 14 March 2011 in accordance with their latest programme.
- **Oil Tank Relocation** – Luddon's commenced construction of the Oil Tank Bund on 7 April 2011 in preparation for oil tank relocation. This work is direct for the Board but new location within the BM compound.
- **Linthouse Burn diversion** - Traffic will be diverted onto the newly constructed road on Monday 14 March 2011 allowing commencement of the Burn Diversion. This is 5 weeks later than programmed (9 weeks programme time since 10 January 2011) due to slow progress in identifying unknown services or, searching for services that are shown on the survey drawings but are not physically there.
- **VIE and Substation Relocation** - Construction on the base and ramp for the new site of VIE tank is due to commence on 21 March 2011.
- **New 33kv Substation** - Progress is good; Dunne's are moving with pace towards their completion date of 9 May 2011. This will allow 3 weeks to fit out before Scottish Power commence installation of their equipment on 30 May 2011.

1.6 Project Supervisor

Visits to the site during February indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Project Executive Plan.

We continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with our visual site inspections. Throughout, the standard of workmanship is generally good and operations are being carried out in an acceptable manner.

Site visits and visual inspections have again continued during the period together with ad hoc meetings and discussions with the site teams. Information regarding drawings, quality issues and other technical matters has been supplied when requested generally via Aconex .

During the period erection of structural steelwork has continued at roof level over areas 5 and 6 of the main building. Connecting steelwork between the pod and main building has also continued. Blockwork has started on the ground floor and has progressed significantly during the period.

The external wall framing continues to progress and windows have been fitted in the west wing. Internal stud partitions continue to be erected. The flat roof above the plant room is also progressing with versa panels being fitted on the remaining roofs. The fitting of the external cladding on the south elevation has also commenced.

In general all mechanical services first fix are well progressed. The standard is of a high quality. Protection of open ends of pipes and ductwork is being provided throughout the site.

Electrical works are also well in hand, and being carried out to the same high standard as the mechanical systems. Cabling is being installed within the containment on some floors and again is being carried out to a high standard. Extensive data cabling has now been installed on cable tray. Caution needs to be maintained where the cabling leaves the cable tray that damage does not occur on the cable until final connections have been made.

Overall the installation and co-ordination of services appear to be well organised. The works in general appear to be progressing in accordance with the Clients requirements and with due regard to health and safety issues.

Supervisor Communication General Matters / Other Instructions (CI 13.1) Nos 10, 11, 12, 13, 14, 15, 16, 17 and 18 were issued to Brookfield during February. These include matters in relation to rainwater affecting fire batts around internal pipes in the west wing, surface of the concrete floor spalling on Level 2, restricted access preventing upper sections of partition boarding being fixed at upper level, unsecured bolt, lintels not fitted and confirmation of the design and fixing details for the cladding.

Brookfield has provided us with a solution from Knauf in relation to the problem of the unfixed section of boarding in the West Wing Level 1 Areas 1 and 2. We shall inspect this area on completion of the work.

Acoustic testing programme for all partitions in accordance with Section 7 of Health Technical Memorandum 08-01 is currently under review by Brookfield.

We continue to have discussions with Brookfield and are being assisted by the site teams in resolving various construction, mechanical, electrical, and quality issues which have been raised following our visits.

1.7 Commercial

Target price remains within agreement.

Compensation events which have been concluded are estimated at a saving of £352,468.02

Weekly meetings to review Early Warnings, Project Manager Instructions and Compensation Events are ongoing.

2 HEALTH, SAFETY AND ENVIRONMENT

2.1 Safety Summary

	Total Number			Comment and Details
	To Date	Previous	This Month	
First Aid:				
- Treatments	33	3	4	
- Referrals	0	0		
Days Lost due to Injuries:				Cairney and Smith operative twisted his ankle on Wednesday 16th March (8am). He was sent home by the occupational health nurse. He returned to work the next day (17/2/11) and was again assessed by the occupational health nurse who thought he was fit for work. He had a pre-booked holiday for 18/2/11 and has not returned to site since.
- Brookfield Construction UK Ltd	0	0		
- Subcontractor	9	4	0	
Number of men on site	220	0	0	
OH & S Plans / WMS:				
- Received	120	47	73	
- Reviewed	116	45	71	
- Approved	116	45	71	
Work cover:				
- Inspector visits	2	0	0	
- Fines / Directions	0	0	0	
Incidents:				
- Public	0	0		
- Site	4	2	0	
Accident Frequency Rate (AFR)	0.34	0.40		Company Target 0.10
Summary of any measures undertaken to improve Site Safety last month:	Project safety department have been working with occupational health nurse and are focusing on occupational health on site including dust collection / suppression and task specific PPE.			
Work activities programmed to take place next month that require additional safety measures	1) Linthouse burn diversion - public interface and environmental 2) Lift installation - safe gates and permits to enter (Shindler). 3) External Facade - Exclusion zones around work areas 4) Piling - To start for new hospital. 5) Roof for Pod - Netting, permit to access (Prater)			

3. PROGRAMME AND PROGRESS

Reporting period

To Week ending 27th February 2011, Week 62 of contract.

Programmes

The following programmes have been included in this report:

- Stage 1 Laboratory 6 week lookahead programme Week 62 BM-GS1-WK-0075
- (see Appendix B)
- Stage 3 Adult & Children's Hospital 6 week lookahead programme Week 62 BM-GS3-WK-0004 (see Appendix C)

A detailed Procurement Schedule is available in Appendix D

3.0 Progress Report

3.1 Summary Status of the works

Forecast completion date 10 March 2012

Phase	+/- Against critical path	Comments
Stage 1 Laboratory Procurement	0	On programme
Stage 1 Laboratory Construction	-3d	Severe inclement weather affecting closure of external envelope affecting fit out
Stage 3 Energy Centre Procurement	0	On programme
Stage 3 Energy Centre Construction	-10d	Piling late start due to overrun on substation
Stage 3 A&C Procurement	0	On programme
Stage 3 Enabling Works (Linthouse Burn diversion)	-15d	Existing services not removed
Stage 3 A&C Construction	0	Main site possession 28 March 2011

3.2. Detailed Programme Summary

Loss of float has resulted from slower progress on roofing and envelope closure works caused by inclement weather. Water ingress during the reporting period has caused difficulties with internal progress in some areas.

At the reporting date the programme was being revisited to establish areas to implement mitigation measures to enable works to progress.

Progress summaries are as follows:

3.2.1 - Stage 1. Labs Progress

Activity	% complete	Comments
Concrete Frame	100	Complete
External drainage	50	
Precast stairs	100	Complete
Steel stairs	80	Stair 5 outstanding
Structural steel	90	Link Bridge and Multi-faith area steelwork outstanding
Head track and Priority partitions	100	Level 1 and 2 in Area 1, 2, 3, 4, 5 & 6
1 st fix partitions	100	Level 1 and Level 2 in Area 1 & 2.
Activity	Percent complete	Comments
M &E wiring and conduit droppers	50	Level 1 in Area 1 & 2
M&E Modules & ductwork	100	Level 1 and Level 2 in Area 1 and 2.
M&E Modules & ductwork	80	Level 1 area 3 and 4.
M&E Modules & ductwork	30	Level 1 area 5 and 6.
M&E Modules & ductwork	50	Level 2 area 3 and 4.
SFS external wall frame and board	80	Outstanding to Ground floor
Windows and curtain walling	60	Windows and curtain wall frames fitted (excluding glazing) to all areas excluding Ground floor.
Unitised Cladding	20	Cladding now ongoing to South elevation and all surveys now complete. Brackets now complete to the East elevation.
Roofing	50	Decking including Versa panels now complete to Area 1, 2 3, 4 & 5. Structural waterproofing now ongoing to Area 3, 4 & 5. POD decking now complete.
Internal Block work	100	Ground floor internal Area 4, 5 & 6 and lift shafts
External Block work	20	Ground floor internal skin to Area 1, 2 & 3
Substation Piling	100	Complete.
Substation Pile caps	100	Complete
Substation Walls	50	

3.2.1(a) Activities starting in the next month

Package	Subcontractor	Start on Site
Screeding and flooring	Harndec Flooring	28 March 2011
Insulated Render	Prater	01 April 2011
Louvres	Prater	21 March 2011

3.3.1. - Stage 3 Adult's and Children's Hospital Progress

Works are due to commence on the 28th March 2011. The piling mat is progressing in readiness for this commencement.

3.3.1(a) Activities starting in the next month

Package	Subcontractor	Start on Site
Piling	Skanska Cementation	28 March 2011

3.3.2. - Stage 3 Energy Centre Progress

Activity	Percent complete	Comments
Energy centre Piling mat	100	Complete.
Energy centre Piling	80	Currently ongoing, planned completion 18 th of March 2011.

3.3.2(a) Activities starting in the next month

Package	Subcontractor	Start on Site
Piling caps and ground works	Dunnes	14 March 2011

4. DESIGN DEVELOPMENT

4.1 - Stage 1. Laboratory Project

Review of version 07 of the equipment schedule incorporating changes to the 'Managed Serviced Equipments is near completion. BM have compiled a list of agreed Group 1 items for review and sign off by the Board.

The addition of "codebook" equipment codes to the schedules is confusing matters; these were not part of the design information from BMJ and thus should be removed from the schedule in order to stop any issues at a later date. BM has requested that the Board formally instructs the use of the REV 07 schedule under cover of a PMI. The delay in closing out the fume cupboard specifications is causing concern as parts of the M&E design maybe affected.

BREEAM is nearing conclusion with all but two items of information provided, following receipt, Ecoteric will be able to submit their interim report to BREEAM.

Progress continues with RDD Technical sign-offs, however, we propose a review of the schedule to ensure all items due through this process are (1) known and (2) being processed in good time not to affect procurement. The Board are working to the programme prepared by BM.

Fire & CCTV strategies are now concluded with the issue of the NHS PMI.

BM still awaits the Board Fire Safety Operational Management Procedure and FM procedures which when completed need to underscore the design strategies already signed-off by the Board.

BM needs an urgent response to these EWNs in respect of the Service Yard because as this may affect the programme in this area. The Board have issued a PMI with drawings that should clarify the management rationale for the service yard.

Building Control

All comments from BCO on the Warrant 3 submission have been met and approval is now expected, BCO comments to Stage 4 warrant (M&E) are being responded to by the consultants.

Planning Conditions.

The table below outlines the current position of the planning condition in respect of the Labs.

Planning Ref	Number of Conditions	Outstanding BMC	Outstanding Board	Monitoring or continuance	Discharged (Applied for)
09/01676/DC	32	9	1	6	18(4)
Pre Start Condition	15				15

4.2. – Stage 2. Adults and Children's, and Energy Centre

Work continues to mitigate any delay, caused by the disruption related to the NTP, with progress being made.

Ongoing reviews of U values and energy models are being undertaken with Board advisor having undertaken a visit to ZBP to inspect the IES model, this matter will be concluded imminently.

All appendix K submissions have been made; approximately 50 documents remain to be signed.

Fire Safety meetings continue with the Board, good progress has been made in respect of extinguishers, call points, cause and effect and sprinkler exclusions.

The Board have advised that Buro Happold will be writing their management procedures, Consultants have responded to the Buro Happold third party review of the Fire Strategy.

Ground conditions - Monitoring in respect on ground conditions is ongoing with confirmation from the Authorities that the proposals in respect of the energy centre area are acceptable. Testing is ongoing in the vicinity of the main hospitals building. Delineation of known hotspots will continue as required.

Medical planning - Pre user groups reviews have progressed with few issues, the 1:50 protocol document is in place to identify and monitor Change Control. The user group meetings are set to commence on the 21st March.

Building Control

A series of meetings with building control has been established, fortnightly on a Tuesday. Further warrant applications are being made in respect of the energy centre, site wide drainage and Stage 6 - site service diversions, drainage & suds and Stage 8 Fire. Warrant approvals for the energy centre in respect of fire and sub structure have been granted.

Planning Conditions

The table below outlines current position of planning conditions in respect of the A & C, Includes update of MSC 3 approval issued.

Planning Ref	Number of Conditions	Outstanding BMC	Outstanding Board	Monitoring or continuance	Discharged (Applied for)
07/01158/DC	43	7	2	3	31(1)#
Pre Start Condition	23	1	1		21#(1)#
MSC1 10/00945/DC (no pre start)	6	0	1	2	3
MSC2 10/01779/DC (no pre start)	19	16	1	2	0
MSC3 10/01779/DC (no pre start)	7	5	0	2	0

relates to the removal of any topsoil. Letter submitted to GCC requesting written permission for the removal of topsoil from the site (17.03.11). Wording of three conditions is under review by Glasgow City Council.

Approval of flood risk assessments and soils analysis/remediation (undertaken to date) is included therein

Authorities have indicated acceptance of the Govan Road junction layouts and signalling principles shown on the master plan with minor amendments to lineage etc. Formal approval will form part of the RCC.

Facade / landscape panels; drawings have been prepared for submission to the Authorities showing panels to meet requirements of decision notice. Sample materials are being finalised for the mock up panel construction, and readied for Board input.

5. CONSTRUCTION AND LOGISTICS

5.1 - Stage 1. Laboratory Project

Watertightness in the Lab Block is a continuing problem, the origin of the problem stems from the inclement weather in December which has been exacerbated by similar weather since the turn of the year. To reduce the impact of this issue BMC have undertaken to introduce mitigation measures to the building. Temporary screens are being introduced to the most exposed elevations, drainage of the floor plates has been accelerated and longer working hours are being implemented by key contractors to regain some time lost.

Continuous programme monitoring will identify any other key actions required to help with continuing programme momentum.

All key package contractors have reviewed the revised programme proposals and have committed to the changes made to secure completion.

5.2 - Stage 3 Works

5.2.1 - Adults and Childrens

Pile mat is virtually completed in preparation for a 28 March 2011 pile commencement date. A concrete slab is being cast for the Bentonite tanks due during w/c 21 March 2011.

BMC continue to work on the basis that all cars will be off site by the 4th April following the opening on Car park 1A.

No date has yet been given for BMC access to Scottish Water acquired land by the Board. An imminent start by Board contractors to construct new mast access road is anticipated within the next week or two.

5.2.2 - Energy Centre

BBGE will complete piling and remove equipment by 18 March 2011 (except for king Post Retaining Wall Construction to Scottish Water Boundary). Dunnes will commence pile cap and substructure works on 14 March 2011 in accordance with their latest programme.

5.2.3 - Other General Matters

5.2.3.1 Oil Tank Relocation

Luddons commenced construction of the Oil Tank Bund on 7 April 2011 in preparation for oil tank relocation. This work is direct for the Board but new location within the BM compound.

5.2.3.2 Linthouse Burn diversion

Traffic will be diverted onto the newly constructed road on Monday 14 March 2011 allowing commencement of the Burn Diversion. This is 5 weeks later than programmed (9 weeks programme time since 10 January 2011) due to slow progress in identifying unknown services or, searching for services that are shown on the survey drawings but are not physically there. A meeting will be arranged to go through the various items in detail.

5.2.3.3 VIE and Substation Relocation

Construction on the base and ramp for the new site of VIE tank is due to commence on 21 March 2011.

A revised relocation position of the surgical substation has been proposed and works programmed to start when full risks have been established and final programme and sequence has been established.

5.2.3.4 New 33kv Substation

Progress is good; Dunnes are moving with pace towards their completion date of 9 May 2011. This will allow 3 weeks to fit out before Scottish Power commence installation on 30 May 2011.

5.3 - Procurement

Overall on programme but revisions to the Labs sequencing will mean the need for advanced procurement on some items.

See attached schedule for detailed procurement position (Appendix D).

6. PROJECT SUPERVISOR

6.1 EXECUTIVE SUMMARY

Visits to the site during February indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Project Executive Plan.

We continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with our visual site inspections. Throughout, the standard of workmanship is generally good and operations are being carried out in an acceptable manner.

Site visits and visual inspections have again continued during the period together with ad hoc meetings and discussions with the site teams. Information regarding drawings, quality issues and other technical matters has been supplied when requested generally via Aconex .

During the period erection of structural steelwork has continued at roof level over areas 5 and 6 of the main building. Connecting steelwork between the pod and main building has also continued. Blockwork has started on the ground floor and has progressed significantly during the period.

The external wall framing continues to progress and windows have been fitted in the west wing. Internal stud partitions continue to be erected. The flat roof above the plant room is also progressing with versa panels being fitted on the remaining roofs. The fitting of the external cladding on the south elevation has also commenced.

In general all mechanical services first fix are well progressed. The standard is of a high quality. Protection of open ends of pipes and ductwork is being provided throughout the site.

Electrical works are also well in hand, and being carried out to the same high standard as the mechanical systems. Cabling is being installed within the containment on some floors and again is being carried out to a high standard. Extensive data cabling has now been installed on cable tray. Caution needs to be maintained where the cabling leaves the cable tray that damage does not occur on the cable until final connections have been made.

Overall the installation and co-ordination of services appear to be well organised. The works in general appear to be progressing in accordance with the Clients requirements and with due regard to health and safety issues.

Supervisor s Communication General Matters / Other Instructions (CI 13.1) Nos 10, 11, 12, 13, 14, 15, 16, 17 and 18 were issued to Brookfield during February. These include matters in relation to rainwater affecting Fire batts around internal pipes in the west wing, surface of the concrete floor spalling on Level 2, restricted access preventing upper sections of partition boarding being fixed at upper level, unsecured bolt, lintels not fitted and confirmation of the design and fixing details for the cladding.

Brookfield has provided us with a solution from Knauf in relation to the problem of the unfixed section of boarding in the West Wing Level 1 Areas 1 and 2. We shall inspect this area on completion of the work.

Acoustic testing programme for all partitions in accordance with Section 7 of Health Technical Memorandum 08-01 is currently under review by Brookfield.

We continue to have discussions with Brookfield and are being assisted by the site teams in resolving various construction, mechanical, electrical, and quality issues which have been raised following our visits.

6.2 DESIGN COMPLIANCE CHECK

The drawing and specification information issued on Aconex indicates that the design is in accordance with the Project Executive Plan.

Drawing and Construction information continues to be provided by Brookfield.

6.3 PROCEDURES REVIEW

6.3.1 Performance

Workmanship generally again appears to be to a high standard. Photographs included in the appendices illustrate works progress during the period.

Much information has been provided in relation to the Labs but information requested and still outstanding include:

- Caltite waterproofing - copy of guarantees/warranty when available
- Proprietary tunnel roof waterproofing details.
- SFS Drawing details
- Report from Brookfield is still awaited in respect of cracks in the mortuary and water tank areas.
- Cube results from the w/c 24/01/2011 are awaited.
- Proposals for remedial work to steelwork surface finishes.
- Proposals for remedial repair to surface area of concrete on the second floor.

6.3.2 Quality Assurance Procedures

Brookfield and Dunne have continued with their QA and checking procedures during the period. Cube results from the w/c 24/01/2011 are awaited.

A review of Brookfield's Contract Quality Plan has been programmed for the 9th March 2011 which will include a review of their Inspection and Test Plans.

6.3.3 Early Warning

Currently nothing to report.

6.3.4 Board Equipment Installation, Testing and Commissioning

Brookfield has provided us with the test information for Fermacell and Knauf partitions. Consequently this part of the Supervisor's Communication General Matters / Other Instructions (CI 13.1) No 3 is closed out.

We have received Astins Test and Inspection Plan and QA check sheets and these are being reviewed. (See Supervisor's Communication General Matters / Other Instructions (CI 13.1) No 3).

We still await Brookfield's acoustic testing programme for all partitions in accordance with Section 7 of Health Technical Memorandum 08-01: Acoustics. (See Supervisor's Communication General Matters / Other Instructions (CI 13.1) No 4).

It was noted that "SHPN 20 Facilities for mortuary and post mortem room services" is listed as a guidance document but makes no reference to acoustic testing. However 5.1.2 NHS Mandatory Documents for buildings lists HTM 08-01 Acoustics as one of the mandatory documents.

6.4 CONSTRUCTION REVIEW

6.4.1 Visits to the Works

Site inspections were carried out by the NEC 3 Supervisor on the 1st, 2nd, 3rd, 4th, 7th, 8th, 9th, 10th, 11th, 14th, 15th, 16th, 18th, 21st, 22nd, 24th and 28th February 2011.

6.4.2 Elements of the Works available for inspection.

- Steelwork erection to roof areas 5 and 6 of the main building plus connecting steelwork between pod and the main building.
- Grouting up to steel column bases remains ongoing.
- Blockwork erection to the ground floor.
- Partitions
- Metal Stud Infill s for External Insulated Render System.
- Permaquik application to flat roofs
- Cladding
- Window installation
- Ductwork.
- Pipework Distribution
- Piling Mat and Operations (ACH Energy Centre)
- Reinforcing and Concreting (ACH substation)

6.4.3 Observations from February 2011 inspections.

The visual inspections of the work packages carried out to date indicate that the works are being carried out to a satisfactory standard. Listed below are observations in relation to site visits in February.

6.4.3.1 Floor Slabs

Although it has been confirmed verbally by Brookfield that cracks are within permitted widths, a report from Brookfield is again still awaited in respect of cracks in the mortuary and water tank areas. Propping has now been removed from all floor areas.

A surface irregularity or laitance bossing on the concrete slab has been noted on the second floor just opposite the connection to the pod. This has been drawn to Brookfield attention and remedial work is being proposed (See Supervisor s Communication General Matters / Other Instructions (CI 13.1) No 11).

6.4.3.2 Steelwork

As reported last month proposals for remedial action to the west wing roof steelwork surface finish, as noted previously in November, are still awaited. (See Supervisor s Communication General Matters / Other Instructions (CI 13.1) No 2).

We noted that one handrail post in Area 5 was broken. Brookfield s has confirmed that this has been repaired and is ready for inspection. (See Supervisor s Communication General Matters / Other Instructions (CI13.1) No 18).

Blockwork has been ongoing to areas of the ground floor during the period. Inadequate mortar infill to some areas at floor level adjacent to wind posts was noted to Brookfield and this has been addressed. There are other areas where lintels require to be built into the blockwork. Brookfield confirmed that they would determine the extent of service penetrations before placing lintels. We shall continue to monitor this work. (See Supervisor s Communication General Matters / Other Instructions (CI 13.1) No 15).

6.4.3.3 Damp Proof Membrane

We have received Brookfields Contract Quality Plan and we shall be checking it against their Inspection and Test Plan for signing off the completion of one phase of work prior to the commencement of another.

We will be looking at the structural copper cladding as an example.

6.4.3.4 Partitions

Brookfield has provided us with Strength and robustness information for both the Fermacell and Knauf partitions. Consequently Section 3a of Supervisor s Communication General Matters / Other Instructions (CI13.1) No 3 is closed out.

Brookfield has provided us with a method statement in relation to erection of the partitions. Consequently Section 3b of Supervisors Communication General Matters / Other Instructions (CI 13.1) No 3 is closed out.

Brookfield has confirmed that timber inserts are being inserted in the partition lintels. Consequently Section 3c of Supervisor s Communication General Matters / Other Instructions (CI 13.1) No 3 is closed out. We have received the Fire Resistance Performance Report for the Fermacell Partitions and these are being reviewed. (See Supervisors Communication General Matters / Other Instructions (CI 13.1) No 3d).

Confirmation received that 5mm gaps can be filled. Consequently Section 4a of Supervisors Communication General Matters / Other Instructions (CI 13.1) No 4 is closed out. Fermacell have informed Brookfield that board affected by water at Genetic Freezer Store will dry out. Consequently this is closed out. Supervisors Communication General Matters / Other Instructions (CI13.1) No 5).

Brookfield confirmed that the gaps between the boarding at some locations on Level 1 and 2 would be sealed with Fermacell jointstick adhesive and surface treatment to be applied as specified by the Fermacell representative. Brookfield now has a report in relation to infilling joints. Consequently Section 4a of Supervisor s Communication General Matters / Other Instructions (CI 13.1) No 4 is closed out.

The moisture content of the Fermacell boarding and timber head pieces affected by water ingress is being monitored. (See Supervisors Communication General Matters / Other Instructions (CI 13.1) No 7). The internal wall lining located on Level 1, Areas 1 and 2 on the west elevation of the west wing does not have screw fixings to the boarding between the ducting and the underside of the concrete soffit (approximately 500mm). Brookfield has a report from Knauf and will undertake the work accordingly. We shall continue to monitor this work. (See Supervisor s Communication General Matters / Other Instructions (CI 13.1) No 12)

Fermacell confirmed that uneven joints in the boarding adjacent to door D/2/B072 on Level 2 can be sanded down. Consequently Supervisors Communication General Matters / Other Instructions (CI 13.1) No 9) has been closed out. This area will be inspected again. See Supervisors Tests and Inspections

6.4.3.5 Insulated Render System

The metal stud framing is progressing on both the East Elevation of Areas

6.4.3.6 Sub-station

Piling is completed and cube results and results from the pile tests (static, dynamic and integrity) are still awaited. These works appear to have been carried out in accordance with the Client s requirements.

Congested reinforcement and cutting of some bars in the foundation to allow fixing during concrete pouring was observed during the period. (See Supervisor s Communication General Matters / Other Instructions (CI 13.1) No 16). This was immediately drawn to Brookfield attention. A review has been carried out by Brookfield with their designers to check that what has been provided has been satisfactory from a design point of view, and this has verbally been confirmed to be the case. Brookfield is reviewing future foundation designs to ensure that no repetition of this occurs. Consequently this is closed out

6.4.3.7 Energy Centre

Piling has continued throughout the period with no apparent technical problems in respect of the permanent works.

6.4.3.8 Temporary Road/Linhouse Burn Diversion

Temporary road diversion to facilitate Linhouse Burn diversion is in progress. Construction appears to be progressing in a manner appropriate for such a temporary road.

6.4.3.9 Flat Roof

Brookfield has confirmed that they will give us 24 hours notice prior to the electronic roof integrity test. (See Supervisors tests and Inspections)

6.4.3.10 Mechanical

Pipework on all levels was progressing well and being installed in good practice and standard. Ends of pipes were being sealed for protection against dirt or dampness.

The installation of Ventilation Ductwork was progressing well and being installed to a high standard. As required ends of ducts are being sealed until final sections are fitted to maintain the cleanliness of the ductwork during construction. One location of ductwork end was not fully sealed on the ground floor area 6.

Generally pipework and Chilled Water Pipework is progressing well and is to a high standard. Brookfield has confirmed that they will provide the manufacturers QA in relation to the hydraulic testing of the pre-insulated pipework. (See Supervisors Communication General Matters / Other Instructions (CI 13.1) No 6).

Brookfield has provided thermal expansion calculations in relation to Supervisor s Communication General Matters / Other Instructions (CI13.1) No 6).

6.4.3.11 Electrical

Trunking is progressing on most levels and is sufficient to allow some cabling to be installed. The standard is good and installation of high quality.

Extensive cable tray is now installed on site to a high standard and level. Solid conduit is being used at high level with flexible metal conduit in partition walls. Both installations are of a good standard and being well fitted.

Some circuit wiring is already being drawn into containment and down to final connection points. Work standard is good. First fix of fire alarm wiring is well under way and being installed to a high standard.

Extensive data cabling has been installed and run on a number of levels. Care needs to be maintained to protect the cabling as it runs off, and through the cable tray supporting the cabling.

6.4.3.12 Caltite

Brookfield have noted that the guarantee/warranty on the Caltite concrete cannot effectively be made available until the tunnel areas have been allowed to dry out and a check made if any remedial works are required.

6.4.3.13 Fire Batts

Fire batts around internal rainwater pipes in the west wing have been saturated with rainwater and some have now been concealed behind stud partitions on the west elevation. Brookfield has confirmed that these will be replaced with a more permanent fire collar and will advise so that a joint inspection can be carried out on completion of the work prior to reinstating partitions. (See Supervisor s Communication General Matters/ Other Instructions (CI 13.1) No 10).

6.4.3.14 Cladding

We noted that the installation of the Cladding is ongoing and that there are adjustments to be made to the position of the anchors. We have asked Brookfield provide further information in relation to the installation and fixing of the cladding (See Supervisor s Communication General Matters / Other Instructions (CI 13.1) No 17).

6.4.4 Non Conformance Reports

No Non Conformance Reports / Defects have been reported by Brookfield to date.

6.5 INFORMATION REQUIRED

General Matters / Other Instructions

Green indicates 'Closed Out'

Yellow indicates 'Part Response'

Red indicates 'Awaiting a Response'

Item No.	Description	Date Requested	Comment	
01	We have requested the following information:	14.06.10		
01a	Dunne PEP or equivalent.		Closed out.	Green
01b	Current civil and structural drawings.		Closed out.	Green
01c	URS specification. Pile integrity and load test results.		Closed Out.	Green
01d	Cube results to date.		Ongoing	Yellow
01e	Calite waterproofing additive details (and copy of guarantees).		Awaiting copy of guarantees.	Red
01f	Proprietary tunnel roof waterproofing details.		Details awaited.	Red
02	We have requested the following information:	25.11.10		
02a	Confirm when remedial measures will be undertaken to address the poor rust patches in the structural steel and notify us when the work is complete to allow us to carry out an inspection.		Brookfield confirmed remedial action to be undertaken. Awaiting notification that work is complete.	Yellow
02b	Confirm the approved remedial action to ensuring that there is a continuous DPM in accordance with the drawing.		Closed out	Green
02c	Provide the QA Inspection and Test Plan for signing off the completion of the work prior to the commencement of the structural copper cladding.		To be reviewed at audit.	Yellow
03a	Provide full test results to BS 5234 for strength and stability for all partition types including impact damage and door slam tests for all door opening situations.	03.12.10	Closed out	Green
03b	Please provide your written method statement/QA describing the erection procedures together with details of the quality checking and recording systems being implemented to ensure correct construction of partitions and correct location of partition types.		Information Provided. Closed out	Green
03c	Confirm if timber inserts are being fitted within the horizontal section of partition forming the door opening to provide strength and robustness.		Confirmation received from Brookfield. Closed out	Green
03d	Provide test results/certificates to BS 476 for all fire resistant partitions		Information received and being reviewed.	Yellow

04a	There are gaps between the boarding at a few locations on Level 1 about 5mm wide. We are seeking confirmation if these gaps can be filled and that there will be no risk of cracks occurring in the future especially above door openings	03.12.10	Response received. Closed out.	
04b	Please confirm your acoustic testing programme for all partitions in accordance with Section 7 of Health Technical Memorandum 08-01: Acoustics.		Brookfield has this under review. Awaiting acoustic test programme.	
05	The boarding to the partition around the doors leading into the Genetic Freezer Store and the Block Slide Store on Level 2 has been exposed to water ingress. Please confirm when these are replaced to allow us to carry out an inspection.	21.12.10	Fermacell confirmed that boards will dry out. Closed out.	
06a	Check ends of pre-installed pipes and ducts are covered to prevent contamination.	08.01.11	Closed out	
06b	Check to ensure that pre insulated pipe and ducting is affected by water ingress on level 2 is completely dry. Insulation to be removed and replace if required.		Closed out	
06c	Access hatches for dampers etc on ventilation systems require to be positioned to allow adequate access to the item being serviced. Check existing installed hatches and future installed locations.		Closed out	
06d	Fire dampers to be supported independent of the ducting		Closed out	
06e	Confirm the strategy for hydraulic testing of the pre-insulated pipework. In the event of failure how is the actual point of failure identified if covered by insulation.		Brookfield confirmed that they would provide test information.	
06f	Confirm the strategy for thermal expansion within the pipework systems.		Information received and under review.	
07	Confirm if Fermacell boarding, timber head piece and timber door frame affected by water ingress require to be replaced or provide evidence that the moisture contents in the timbers does not exceed the recommended moisture content.	07.01.11	Being monitored by Astins	
08	Please confirm when an electronic roof integrity test will be carried out to the Permaquik system prior to the application of any insulation or covering materials to the roof area.	13.01.11	Brookfield confirmed that 24hr notice would be given.	
09a	Fermacell Boarding adjacent to door D/2/B072 on Level 2 are not flush. Confirm remedial action.	14.01.11	Closed out	
09b	The Fermacell Boarding at the window opening S/2/021 City Analysis 2 on Level 2 has not been fitted properly.		Remedial work as Fermacell Report. Closed out.	
09c	Boarding not fitted properly at window opening S/2/021 City Analysis 2.		Remedial work as Fermacell Report. Closed out.	

09d	Damaged header at door opening at B/2/B086.		To be replaced at 2nd fix	
10	Fire batts around internal rainwater pipes in the west wing have been saturated with rainwater. Confirm when we can inspect the completed fire collars.	14.01.11	Detail of fire batt provided. Inspection to be carried out.	
11	The surface of the concrete floor is boss (spalling) on Level 2 Sequencing Lab L2/B/028. Investigate the extent and confirm when the appropriate remedial measures have been completed.	09.02.11	Repair to be carried out. See inspection list	
12	The internal independent wall lining located on Level 1, Areas 1 and 2 on the west elevation of the west wing does not have screw fixings to the boarding from the underside of the ducting to the top of the partition (approximately 500mm). Confirm measures to ensure the boarding is fixed at the appropriate centers and provide notification to allow the partitions to be inspected	14.02.11	Response received. Being reviewed	
13	Unsecured bolt confirm when this has been remedied so that an inspection can be carried out.	18.02.11	Brookfield confirmed bolt secured. Confirmed by inspections.	
14	There is restricted access to the upper section of some of the partitions in a number of locations throughout the site especially in corridors. Confirm that the boarding can be fitted in these locations in accordance with Fermacell's specifications. We are aware that in some locations the partitions are to be in shaftwall.	18.02.11	Shaftwall being used. Closed out.	
15	A lintel requires to be installed in the blockwork wall on the ground floor Area 4/5. There are also other openings elsewhere on the ground floor which require lintels. Confirm when these are complete so that an inspection can be carried out.	18.02.11	Extent of services to be ascertained before placing lintels in position.	
16	Attention should be given to the detailing of the reinforcing and pre fixing system which should be to the same standard as the Laboratory	18.02.11	Adjustments made to detailing.	
17	Lower Anchors on the panels fitted do not appear to be fit into the brackets properly. Confirm if the distribution of the load from the panels are equally taken by the upper and lower brackets/anchors. Provide a specification relating to drawing SUK-LAB-XX-DT-251-GA 020 and the numbered items on the drawing.	28.02.11	Briefed by Brookfield. Drawings to be provided.	
18	Handrail post to the feature in Area 5 is broken. Confirm when this will be repaired/replaced.	28.02.11	Brookfield assessing requirements	

7. COMMERCIAL

7.1 Budget v Cost Plan – TP/MP

Adult and Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on Target Price.

There has been 19 Nr Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties.

Contract Award Target Price	£575,111,382.00
Compensation Event Notices Issued – formally closed out	- £352,468.02
Compensation Event Notices Issued – awaiting close out	£0
Current Estimated Contract Target Price	£574,758,913.98

7.2 Value Engineering/Opportunities

A Joint Value Engineering/Opportunities Register is maintained and reviewed regularly to capture and agree detailed solutions to achieve the Board output requirements in a different manner that will provide the appropriate quality with a reduced defined cost. The schedule is reviewed at monthly Commercial Group meetings

7.3 Defined Cost Audits

Sample audits are undertaken as part of the Payment Assessment Process. All information requested is provided timeously. There are some accrual issues identified with Dunne and Mercury parts of the overall assessment, but nothing of a significant nature.

7.4 Early Warning Notices

A summary of all Early Warning Notifications (EWNs), Project Managers Instructions (PMIs) and Compensation Event Notices (CENs) activity as at 25th March 2011 is detailed below:

- Brookfield Multiplex have issued 86 EWNs to the Board, 64 have been closed out and 22 are currently open.
- The Board have issued 28 EWNs to Brookfield Multiplex, 25 have been closed out and 3 are currently open.
- The Board have issued 66 PMIs to Brookfield Multiplex, 51 have been actioned and closed and 15 are currently open.
- 19 CENs have been concluded.

Weekly meetings to review EWNs, PMIs and CENs are ongoing.

Full details of all EWNs, PMIs and CEs can be found in the EW Tracker, available from the Board on request.

7.5 Monthly Payments

Assessment Nr 14 was processed and issued on 18th March 2011 as follows:

PROJECT MANAGER'S				
ASSESSMENT OF AMOUNT DUE (NEC3 Clause 11.2(29) amended to NEC2)				
<i>Contractor and Subcontractor Works</i>				
PSCP	Stage 1	£		32,749,772.00
	Stage 2	£		17,848,516.00
	Stage 3	£		4,120,330.00
	Stage 3A	£		
	PSCP Work Done to Date	£		54,718,618.00
	Deduct retention free amount	£		0.00
	Sub total	£		54,718,618.00
	Retention	£		-1,637,489.00
	Sub total	£		53,081,129.00
	Deduct previous payments	£		47,155,137.00
	Sub total	£		5,925,992.00
	Add VAT %	20.00%	on £ 5925992	£ 1,185,198.40
	Amount due	£		7,111,190.40

8. COMMISSIONING

8.1 New Adult and Children's Hospitals

Nothing to report.

8.2 New Laboratory Project

a) Laboratories Operational and Commissioning Group

An all day workshop to launch this group took place on 1st March 2011. Approximately 55 key staff members from the Laboratories and the NHS Project Team were in attendance. During this initial session the group was split into the various Lab disciplines to discuss commissioning plans. The order of the move into the new facility was decided as Pathology – Mortuary – Genetics – Blood Sciences – Microbiology – Clinical Genetics. The output from the day has been collated, once approved by the Director of Diagnostics this document will be issued to the wider group.

Discipline Operational and Commissioning Groups have been set up and are all due to meet prior to 19th April 2011. The action plans from these groups will be reviewed at the next Laboratories Operational and Commissioning Group which will take place on 21st April 2011, this group will report into the overarching Laboratory Medicine Project Group (LMPG).

b) Laboratories and FM

A workshop between Laboratories and FM staff took place on 25th February 2011. The workshop raised the importance of joint working during the commissioning period. A summary document based on output from the day has been collated and circulated to key stakeholders. The next meeting of this group has been scheduled for Friday 20th May 2011.

c) Laboratories Seating Plan

Work is ongoing to map out the Laboratory numbers transferring to the new Laboratories against the floor plans. The Laboratory Commissioning Manager has met with all Technical Service Managers to discuss where staff will be located within the new facility. A database of staff transferring is being populated and will be used as a baseline to organise staff moves from 2012.

d) Managed Service Contract

The technical and financial scoring of the tenders is progressing and it is anticipated that the preferred bidder will be selected on 1st April 2011. A meeting with the preferred contractor and the Board will take place on 4th April 2011 to discuss details of all equipment included in the contract.

e) Fume Cupboards and Safety Cabinets

The Board are currently clarifying some queries raised on the fume cupboard specifications. The Laboratories General Manager is coordinating this response. The updated specifications will then be issued to potential suppliers to obtain quotes for the supply and installation of fume cupboards in the new facility. Following receipt of the costings the Board will make a decision on the procurement route for this equipment.

9. ENABLING WORKS

9.1 Scottish Water Land

Legal work substantially complete, Orange Telecoms require to sign side document to missives to complete land transaction. Tenders returned for new SW road and a contract is due to be let before end March 2011.

Discussion between NHS and BM ongoing to determine optimal solution to provide the boundary fencing.

9.2 Scottish Ambulance Service (SAS)

No further action in respect of NHS and BM.

9.3 Helicopter and Construction Works Interface

New arrangements for landings of SAS helicopter services have been agreed between SAS/Bond, NHS and ARCC at Lossiemouth. Helicopter landings at Southern General Hospital will cease from 29th March 2011 at 07.30 hrs.

9.4 Demolitions

Demolitions works are now complete with exception of a number of ducts and isolated foundations. These outstanding items will be incorporated into Dunne's package for Stage 3.

It is the Board's intention to agree a final account for demolition works prior to the end March 2011.

10. APPENDICES

Appendix A - Site Progress Photos





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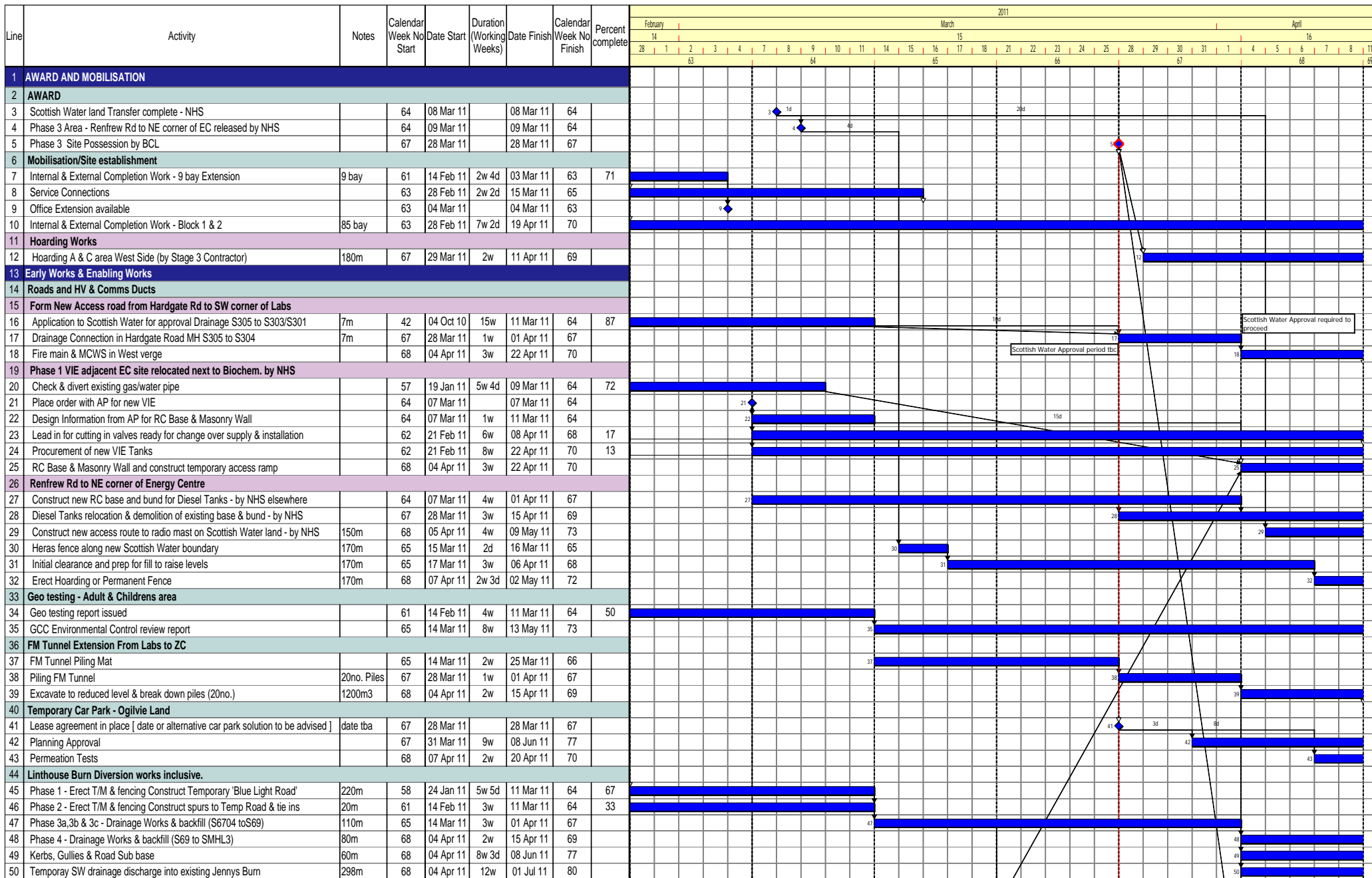
Rev. Date: 04/03/2011

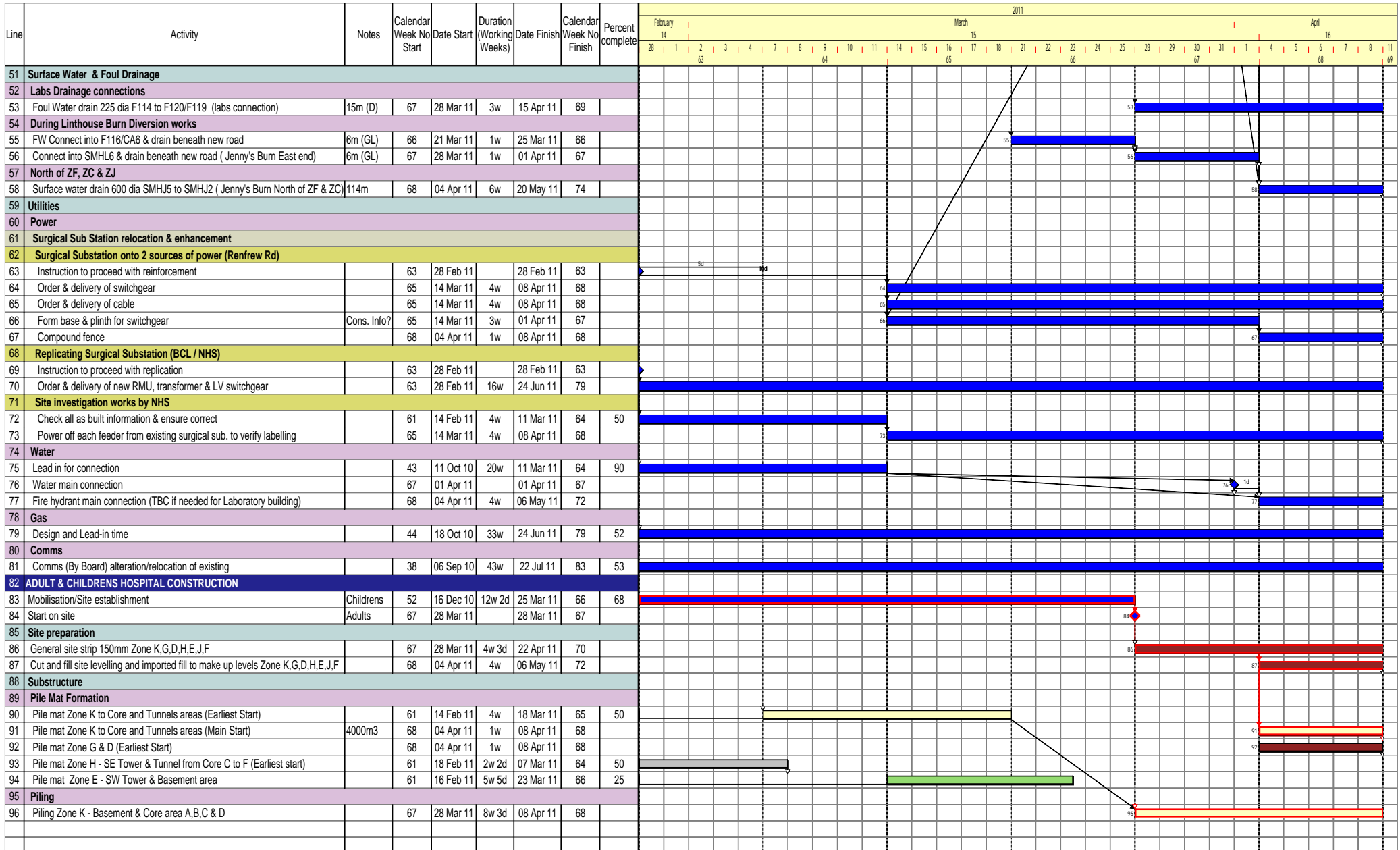
"This programme is copyright and the property of Brookfield Construction (UK) Ltd and must not be used with out written approval".

Rev. Date: 04/03/2011

<div>Brookfield MULTIPLEX</div> <div>BM</div>		New South Glasgow Hospitals Project										<div>Page 292</div> <div>Greater Glasgow and Clyde</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Rev. Date: 04/03/2011





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Date of Issue: 28/02/2011

Drawn By: AB

Print Date: 02/03/2011

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Comments: 6 Week Lookahead (Week 63 to 68)

Programme No.: BM-GS3-WK-004

Revision:

Revision Date: 28/02/2011

Work Package Number	Work Packages	Sub-Contractor	Status	Lead In Period	Date on Site	Contract Week Number Start on Site	Contractor Comments
	Consultants						
PS10100	Commercial Team:	Doig + Smith	PLACED				
PS10200	Architects:	BMJ Architects	PLACED				
PS10300	Structural Engineer:	URS	PLACED				
PS10400	Structural Engineer Co-ordination:	URS	PLACED				
PS10500	Services Engineers:	Wallace White	PLACED				
PS10550	Services Engineers:	Wallace White	PLACED				
PS10600	Services Commissioning Manager						
PS10700	Environmental Survey Works						
PS10800	Air Leakage Testing						
PS10900	Acoustic Testing						
PS10990	Design Contingency						
	PRELIMINARIES						
	Site Accommodation						
WP101000	Site Offices & Welfare (no lockers)	WACO	PLACED	6	15-Mar-10	13	
WP101000	Catering Facilities Operation	Boyd Catering	PLACED	1	3-May-10	20	
WP101000	Cleaning / Welfare	Alpha Business Resources	PLACED	2	10-May-10	21	
WP101000	Temporary Electrics	Wingate PLC	PLACED	3	12-Apr-10	17	
WP101000	IT Cabling	WACO (DACOLL)	PLACED	4	19-Apr-10	18	
WP101000	Telephone Hardware	TELEFONIX	PLACED	4	5-Apr-10	16	
WP101000	Cleaning & Welfare - Stage 3			3	4-Apr-11	68	ATL / order to be raised
WP101000	Furniture & Fittings	Office Furniture Centre	PLACED	2	26-Apr-10	19	
WP101000	IT Equipment	Ultima / IITS	PLACED	2	26-Apr-10	19	
WP101000	Site Photography	Hawkeye Scotland	PLACED	1	15-Feb-10	9	
WP101000	Fire & Evac Alarm	WINGATE PLC	PLACED	2	29-Nov-10	50	
	Site Set Up						
WP101000	Hoarding & Tree Protection	DARFEN DURAFENCING	PLACED	2	8-Mar-10	12	
WP101000	Security	C UK SECURITY	PLACED	2	26-Apr-10	19	
WP101000	Security Guarding & Equipment	C UK SECURITY	PLACED	2	26-Apr-10	19	
WP101000	Temp Roads	DUNNE	n/a	2	26-Apr-10	19	
WP101000	Highway Signage	DUNNE	n/a	2	26-Apr-10	19	
WP101000	Pedestrian Control	DUNNE	n/a	2	26-Apr-10	19	
WP101000	Tree Removal	Land Engineering	PLACED	1	8-Mar-10	11	
	Construction						
WP101000	Scaffolding			10	8-Nov-10	47	
WP101000	Hoists	Holst & Access	PLACED	3	10-Jan-11	56	
WP101000	Scaffold			4	31-Jan-11	59	Reinstated - Scope to be advised
WP101000	Waste Management	Recycling & Services	PLACED	2	29-Nov-10	50	
WP101000	Service Gang	ALPHA BR	PLACED	2	12-Jul-10	30	
WP101000	Builders Clean			4	5-Sep-11	90	
	CONSTRUCTION: BUILDERS WORK						
	SUPPLY CHAIN PARTNERS						
WP102200	Excavation & Earthworks (incl Drainage)	Dunne Building and Civil	PLACED		19-Apr-10	18	
WP102300	Concrete Sub-Structure & Super-Structure	Dunne Building and Civil	PLACED		19-Apr-10	18	
WP103000	Unitised Curtain Walling & Doors (incl Link)	Structal	PLACED		11-Oct-10	43	
	Robotics	Swisslog	Pending		12-Sep-11	91	
	Lifts	Schindler	Pending		14-Jun-10	26	
	Mechanical & Electrical Services	Mercury Engineering	PLACED		29-Nov-10	50	
	Enabling						
	Site Strip / Piling Mat	Dunne Building and Civil	PLACED	1	15-Feb-10	9	
	Survey Works	S E S	PLACED	1	15-Feb-10	9	
	Structural						
WP102100	Piling	STENT	Pending	4	8-Mar-10	12	
WP102600	Structural Steelwork (plantroom / link bridge / atrium)	PAVO Steel Specialists	PLACED	14	25-Oct-10	45	
WP102850	Passive Fire Protection			8	8-Nov-10	47	
WP102850	Metalwork / Steel Staircases (cores, atrium, pod)	M & S Engineering	PLACED	10	1-Nov-10	46	
WP102850	Secondary Steelwork			8	10-Jan-11	56	
WP102900	Diamond Drilling	Holmasters	PLACED	2	21-Feb-11	62	
WP001	Spare			4	14-Nov-11	55	
WP002	Spare			4	14-Nov-11	55	
WP003	Spare			4	14-Nov-11	55	
WP004	Spare			4	14-Nov-11	55	
WP005	Spare			4	14-Nov-11	55	

Work Package Number	Work Packages	Sub-Contractor	Status	Lead In Period	Date on Site	Contract Week Number Start on Site	Contractor Comments
	Envelope						
WP103000	Glazed Curtain Walling (ground floor) Non-Unitised			16	6-Dec-10	51	Structural ?
WP103000	Membrane Roofing / Green Roofing	Prater Limited	PLACED	10	17-Jan-11	57	
WP103000	Louvers	Prater Limited	PLACED	14	7-Mar-11	64	
WP103000	Copper Metal Cladding to Pod Plantroom	Prater Limited	PLACED	16	6-Dec-10	51	
	Aluminium Cladding (rue)	Prater Limited	PLACED	14	10-Jan-11	56	
WP103000	Rainscreen Cladding (Eternit)			14	8-Nov-10	47	
WP103000	Insulated Render	Prater Limited	PLACED	8	7-Feb-11	60	
WP103000	Windows (punched)	Prater Limited	PLACED	16	13-Dec-10	52	
WP103000	Doors (external) metal escape doors	Ascol Doors	PLACED	10	4-Apr-11	68	
	Metsec and external board	Prater Limited	PLACED	10	8-Nov-10	47	
WP103700	Brickwork & Blockwork (incl Granite Masonry)	Cairney & Smith	PLACED	12	7-Feb-11	60	
	M&E Access Metalwork / Riser Deck			11	7-Feb-11	60	
	Curtain Walling (Stair Cores and Atrium 2)	Prater Limited	PLACED	14	14-Feb-11	61	
	Roller Shutter Doors (FM)	Ascol Doors	PLACED	10	2-May-11	72	
	Soffit to Office Pod			8	9-May-11	73	
	FIT-OUT						
WP104000	Suspended Ceilings		pending	3	11-Apr-11	69	
WP104000	Partitions & Drylining	Astins Limited	pending	14	11-Oct-10	43	
	Fire Stopping			4	18-Apr-11	70	
	Blastracking			4	4-Oct-10	42	Sequencing TBA - before or after partitions
WP104100	Tiling to Showers			8	4-Jul-11	81	To Buy
WP104125	Floor Finishes	Hardec	PLACED	12	16-May-11	74	
	Hygienic Wall Coverings			14	4-Jul-11	81	
WP104150	Resin Floors - Plantrooms			12	4-Jul-11	81	
	Plantroom Screeds			14	7-Feb-11	60	
	Internal Glazed Screens			14	25-Jul-11	84	
WP104250	Toilet Cubicles			8	12-Sep-11	91	
WP104400	Internal Doors & Ironmongery			6	11-Apr-11	69	
WP104425	Roller Shutter Doors			16	5-Sep-11	90	
WP104425	Laboratory Fit-Out (Furniture)			12	30-May-11	76	
WP104450	Sundry Joinery			4	6-Jun-11	77	
WP104475	Demountable Partitions			14	25-Jul-11	84	
WP104500	General Metalwork			13	27-Jun-11	80	
	M&E Access Metalwork / Riser Floor Decks			12	13-Dec-10	52	
WP104550	Architectural Metalwork			21	13-Jun-11	78	
WP104600	Wall Protection			11	5-Sep-11	90	
WP104700	Acousto Sliding Partition / Folding Partitions			14	12-Sep-11	91	
WP104800	Mastic Pointing			8	12-Sep-11	91	
WP104900	Painting & Decorating			3	11-Apr-11	69	
WP104900	Hygienic Wall Coverings			10	26-Sep-11	93	
WP105000	Signage (internal/external)			10	12-Sep-11	91	
WP105100	Blinds / Curtains			13	12-Sep-11	91	
	Reception Desks & Counters			14	14-Nov-11	100	
	Mobile Racking			10	25-Jul-11	84	
	Fire Extinguisher			10	17-Oct-11	96	
	Halches ? Specialist			16	18-Jul-11	83	
	Radiation Protection (L-1/B/O27)			12	30-May-11	76	
	Retractable Seating			10	11-Jul-11	82	
	Lockers			10	11-Jul-11	82	
	EXTERNAL WORKS						
	Section 75 Works			10	21-Nov-11	101	
	Site Roads & Drainage			10	1-Aug-11	85	
	Street Lighting			10	1-Aug-11	85	
	Fencing / Gates			10	21-Nov-11	101	
	Soft Landscaping			10	21-Nov-11	101	
	Hard Landscaping			10	21-Nov-11	101	
	Street Furniture / Bike Shelter			10	21-Nov-11	101	
	Dock Levelers (FM)			14	21-Nov-11	101	
	Car Park Equipment			16	21-Nov-11	101	
	ANCILLARY STRUCTURES						
	Bin Stores			12	1-Aug-11	85	
	Oil Tank Bunding / Store			8	1-Aug-11	85	
	Gas Bottle Store			12	1-Aug-11	85	
	Sub-Station Louvers	Giberts	28-Jan-11	8	7-Mar-11	64	
	CONSTRUCTION - SERVICES						
	Laboratory Equipment (Fume Cupboards / Safety Cup)			22	5-Sep-11	90	Design prog Start on site wk 58 ?
	Temperature Controlled Rooms	A C E	pending	10	9-May-11	73	
	Catering Equipment			22	18-Jul-11	83	
	Cat III Fit Out	Atlas		12	6-Jun-11	77	
	Mortuary Equipment - PM / Dissection Tables	Steelne	22-Feb-11	16	20-Jun-11	79	
	Body Refrigeration	Mitby Coldstores	17-Feb-11	12	9-May-11	73	
	EQUIPMENT						
	Specialist Equipment			18	5-Sep-11	90	
	Core Equipment			18	5-Sep-11	90	
	Art			26	29-Aug-11	89	
	Equipment 1 - HTM Furniture - Joinery			10	1-Aug-11	85	
	Equipment 2 - Fixtures & Fittings			10	1-Aug-11	85	
	Equipment 3 - Loose Furniture			10	1-Aug-11	85	

New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield MULTIPLEX

Monthly Progress Report

July 2011



**Brookfield
MULTIPLEX**



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Appendix A - Site Photographs

Appendix B - 6 Week look ahead programme Stage 1

Appendix C - 6 Week look ahead programme Stage 3

1. EXECUTIVE SUMMARY

1.1 Introduction

The Joint NHS /Brookfield MULTIPLEX Project Team are continuing to work on a range of tasks to ensure that the Project remains on programme i.e.

- Management and Construction of Stage 1 Laboratory and 33Kv substation on site
- Management of Risk and Change
- Cost control and management of NEC3 processes (EW/PMI/CE) for stages 1, 2 and 3
- Stage 3 Enabling Works
- Stage 3 piling and excavation works

The notes below summarises some of the key points from the detailed reports that are included in the following sections:

1.2 Health and Safety

No RIDDOR or serious injuries to report this month.

11 minor injuries reported on site.

1.3 Programme and Progress

The following programmes have been included in this report:

- Stage 1 Laboratory 6 week lookahead programme Week 80 (BM-GS1-WK-0197) see Appendix B)
- Stage 3 Adult & Children's Hospital Target Programme 6 Month Lookahead Week 81 BM-GS3-WKC-0021 (see Appendix C)

1.4 Design Development

a) Laboratory Project

- The Board are continuing to prepare an updated Equipment schedule for Groups 2, 3, 4, 5 etc. It is anticipated that the updated equipment schedule will be available mid August 2011 and in the meantime BMCL are instructed to work in accordance to current designs and drawings. The Board have been reviewing the architects room layout drawings against the equipment list.
- Compliance criteria for the Cat 3 Lab has changed and design is being reviewed in conjunction with the Board

b) Adult and Children's Hospitals

- The Appendix K process has been concluded.
- Fire Safety – meetings with the Board are ongoing, with progress being made in respect of extinguishers, call points, cause and effect and sprinkler exclusions. The Board are to meet with Buro Happold to agree all issues closed aside from atrium roof controls.
- Ground conditions - Monitoring in respect on ground conditions is ongoing with confirmation from the Authorities that the proposals in respect of the energy centre area are acceptable. Testing is ongoing in the vicinity of the main hospitals building. Delineation of known hotspots will continue as required.
- User Group Meetings are nearing completion of the sign-off process for the loaded rooms. The NHS Team continue to target 31st July for sign-off of all drawings. The NHS and BMCL teams continue to monitor change.
- The updated equipment list will be provided to the NHS Team by 15th August 2011.
- Design development of the Adult & Children's Atrium space is nearing completion and BMCL are finalising a cost review for this area.
- BMCL continue to liaise with the NHS Team to finalise the link bridge proposals.

1.5 Construction and Logistics

a) Laboratory Project

- Fit out works are progressing as agreed with all key package contractors and is subject to continuous programme monitoring to identify any actions required to help with continuing programme momentum.
- External works and envelope operations have been fully co-ordinated to align with the revised fit out programme, and committed to by principal subcontractors.
- BMCL are finalising the benchmark rooms for review by the NHS Team.
- The NHS Team and BMCL have jointly identified areas/rooms to undergo acoustic testing.

b) Adult and Children's Hospitals

- Pile Mat continues to be installed in line with the piling rig and dewatering requirements.
- Piling is ongoing in Zone K, G, D, E, J and A.
- Dewatering well point system has been fully installed and currently being used in zones 1 and 2.
- Site Hoarding – East and South boundary hoardings will be completed once the blue light re-opens.

c) Other General Matters

- **Energy Centre** – The superstructure works are in progress, works are generally on programme.
- **Linthouse Burn diversion** – the works remain behind programme. A realistic projected completion for the works has been identified as 1st August 2011. Works to the 2nd phase continue to be carried out in tandem with the first works in order to increase output.
- **New 33kv Substation** - Dunnes have completed their works and SPEN are expected to progress their works by 25th July 2011. A drainage co-ordination issue was identified in this area and BMCL have now concluded the drainage works in this area. The transformers have been installed.

1.6 Project Supervisor

• New Laboratory Facility

Visits to the site during June 2011 indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Project Executive Plan.

Capita continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with their visual site inspections. Throughout, the standard of workmanship is generally good and operations are being carried out in an acceptable manner.

Site visits and visual inspections have again continued during the period together with ad hoc meetings and discussions with the site teams. Information regarding drawings, quality issues and other technical matters has been supplied when requested generally via Aconex.

Capita have issued 39 Supervisor's Communication General Matters/Other Instructions and 10 Supervisor's Defect Notifications. Capita continue to have discussions with BMCL and are being assisted by the site teams in resolving various construction, mechanical, electrical, and quality issues which have been raised.

- New Adult and Children's Hospitals

The ground works currently underway appears to be well organised and visual inspections carried out in July 2011 indicate that the Works are being carried out in a satisfactory manner generally in accordance with the Project Executive Plan.

Skanska/Cementation have raised a total of 6 NCRs for issues with piles. BMCL are working with Skanska/Cementation to address these NCRs. Piling and pile cap excavations are ongoing.

The de-watering system appears to be performing well and ground conditions continue to be kept under review.

1.7 Commercial

Target price remains within agreement.

Compensation events which have been concluded are estimated at a saving of £225,155

Weekly meetings to review Early Warnings, Project Manager Instructions and Compensation Events are ongoing.

2 HEALTH, SAFETY AND ENVIRONMENT

2.1 Safety Summary

	Total Number			Comment and Details
	To Date	Previous	This Month	
First Aid:				5 Finger injuries, 3 Eye injuries, 1 Arm injury 1 Hand injury 1 Leg injury
- Treatments	64	5	11	
- Referrals	0	0	0	
Days Lost due to Injuries:			2	Brookfield Multiplex Alpha Labourer strained right leg muscle.
- Brookfield Construction UK Ltd	2	0	2	
- Subcontractor	9	0	0	
Number of men on site (going through turnstile)		550	669	
Total number on site (including office, welfare and visitors)		750	838	
OH & S Plans / WMS:				
- Received	298	82	47	
- Reviewed	245	82	47	
- Approved	233	76	41	
Work cover:				
- Inspector visits	3	0	1	HSE Specialist Inspector John Madden.
- Fines / Directions	0	0	0	
Incidents:				Non conformances: X8 yellow cards issued. Violations include: x3 Non wearing of PPE, x3 Work at height issues, x1 No Permit to Work for Hot works, x1 Op riding on material delivery. No red cards issued in reporting period.
- Public	0	0	0	
- Site	8	2		
Accident Frequency Rate (AFR) Cumulative	0.17	0.00	0.00	Company Target 0.10
12 Month Rolling AFR	0.09	0.0	0.0	Project Target (2011) 0.32
Summary of any measures undertaken to improve Site Safety last month:	1) Re-induction for everyone on site (18 sessions) 2) Monthly safety focus – Eye injuries 3) Produced 7 point H&S action plan and submitted to senior managers 4) Environmental – Spill management emergency flow chart to be placed on all diesel bowsters.			
Work activities programmed to take place next month that require additional safety measures	1) Deep excavation on Phase 3 – excavation, increased vehicle movement, environmental 2) Tower crane installation phase 3 – excavation (base), crane erection 3) Extension to the tunnel – excavations, confined space & increased vehicle movement. 4) Core pile cap construction – vehicle movement, lifting operation environmental.			

3. PROGRAMME AND PROGRESS

3.1 Summary Status of the works

Forecast completion date 10 March 2012

Phase	+/- Against critical path	Comments
Stage 1 Laboratory Procurement	0	On programme
Stage 1 Laboratory Construction	0	
Stage 1 Substation	0	Complete. Available for Scottish Power access date now 7 th June previously 30 th May.
Stage 3 Linthouse Burn Works	-4w	Original start date 10/01/11. Original completion date 29/04/11 Projected completion date 01/08/11 Restricted access and passing existing services held back initial progress. A third drainage gang and a roads gang has been brought in to assist in mitigating programme losses
Stage 3 Adults & Children's Hospital Procurement	0	On programme
Stage 3 Adults & Children's Hospital Construction	0	On programme
Stage 3 Energy Centre Procurement	0	On programme
Stage 3 Energy Centre Construction	0	Maintaining progress this period. Frame 1 week behind due to HV cable.

3.2 Detailed Programme Summary

Project completion date for the Laboratories remains on target for 10 March 2012.

There are no matters on the A&C which are likely to affect the completion date at this time.

Progress summaries are as follows in section 3.2.1:

3.2.1 Stage 1 Labs Progress

Activity	% complete	Comments
External drainage	80	Outstanding to East road only
Steel stairs	100	Complete
Head track and Priority partitions	100	Complete
1 st fix partitions	90	Atrium wall tie in outstanding and POD Level 3.
2 nd fix partitions	50	Substantially complete on Level 1 and 2 (excluding POD level 2) and now ongoing on Level 3 through Area 1, 2, 3 & 4.
M&E Modules & ductwork	90	Now almost complete as all walls have now been handed over for 1 st fix. Outstanding to Plant room areas.
SFS external wall frame and board	100	Now complete including Link bridge
Lift Installation	25	Ongoing in Core 2 & 4.
Windows and curtain walling	95	GF area 6 outstanding as well as vents above windows.
Unitised Cladding	90	Ongoing to Multi faith area and Ground Floor POD.
Roofing	90	Roof finishes currently ongoing to Area 3 concrete roof and POD concrete roof.
Internal Block work	100	Internal block work now complete.
External Block work	85	Currently ongoing to South and East of the Labs building.
Screeding and flooring	20	Screeding now substantially complete on Level 1 excluding POD area, and Level 2 in Area 1, 2, 3 & 4. GF screed currently outstanding to Area 6. Vinyl complete to Area 1 & 2 on Level 1 & 2.
Insulated Render	70	Courtyard Render now complete but outstanding to North elevation of Link bridge and entire north elevation. West elevation outstanding from Grid A1 to A6.
Louvre's	100	All louvres now complete.
Painting	20	Mist coat now substantially complete on Level 1 excluding POD area, and Level 2 in Area 1, 2, 3 & 4. GF mist coat now currently ongoing in Area 6. All plant room floors, soffits and walls now painted.
Suspended Ceiling	15	Ceiling trims now substantially complete in Area 1 & 2 on Level 1 & 2, and has now commenced on Level 1 in Area 3 & 4.
Door frames	25	Door frames and architraves now substantially complete in Area 1, 2, 3 & 4 on Level 1 & 2. And ongoing to GF in Area 4, 5 & 6.
Laboratory furniture	10	Now complete to Area 1 & 2 on level 1.
Substation Walls	100	Complete

3.2.1(a) Activities starting in the next month

Package	Subcontractor	Start on Site
Wall Protection	Conspec Contracts Ltd	18 th of July
Internal glazed screens	Astins	18 th of July
Sliding and folding partitions	Styles of Glasgow	18 th of July

3.3.1 Stage 3 Adult's and Children's Hospital Progress

Activity	% complete	Comments
Hoarding Works	67	East and South boundary to complete when Blue light route re opens after Linthouse Burn works.
Form New Access road from Hardgate Rd to SW Corner of Labs	97	Scottish Water approval response received & currently being clarified by WSP for drainage connection in Hardgate Road. MCWS pipe now w/c 4 July.
Phase 1 VIE adjacent EC Site relocated next to Biochem by NHS	97	Existing Tanks decommissioned & removed. Fence, Dist.box & base to be demolished.
Renfrew Rd to NE Corner of Energy Centre	25	HV cable to be relocated to enable the mast retaining wall & road works to proceed. Fill to raise levels ahead of 1200dia drainage started ready for SP to relocate HV cable.
FM Tunnel Extension from Labs to ZC	15	Excavation to reduce level & break down piles in progress.
Linthouse Burn Diversion Works inclusive	83	Phase 5 drainage & final tie ins to complete, road works advanced, anticipated completion 01/08/11
Surface Water & Foul Drainage	23	Siphon construction completed with Deep Foul, & Jenny's Burn progressed from blue light route up to FM tunnel. Labs Surface water connection started.
Surgical Substation relocation & enhancement by NHS	tba	Programme to be provided by NHS showing completion by 26/09/11.
Cable Connections EC to new 33KV Substation by Hardgate Rd	25	Trench A HV cables pulled. Trench B ducts & HV cables outstanding. Scottish Power installation commenced with transformers delivery & placement
Adult & Children's Hospital Construction		
Pile Mat formation	94	At Level 00
Piling	25	Piling progressing in Zones K,G,D,E,J & A 472 out of 1918 piles completed to date
Tower Crane Foundations	6	Base for TC4 complete
Install & Commission dewatering system	100	Zone 1 & 2 complete & draw down ongoing
Bulk Excavation	6	Core G excavation complete with partial excavation of Zone E basement for access.
Pile Caps	0	Base for Core F due to start w/c 04/07/11

3.3.1(a) Activities starting in the next month

Package	Subcontractor	Start on Site
Surgical Substation relocation works	tba by NHS	W/C tba
MCWS underground pipework	Mercury	W/C 04/07/11
Core Bases & Pile Caps	Dunne	W/C 04/07/11
FM Tunnel Pile caps/base	Dunne	W/C 04/07/11
Jenny's Burn West end (through car park) & connection to existing.	Dunne	w/c 11/07/11
Slip form Core G Zone E	Dunne	w/c 11/07/11
Tower crane foundation TC8 Zone H	Dunne	w/c 18/07/11
Excavate for Core F base Zone G	Dunne	w/c 18/07/11
HV Cable diversion	Scottish Power	W/C 18/07/11
Blue light route surfacing	George Leslie	W/C 18/07/11
Piling Zone K, G, D, H, E, J ,F & A	Cementation	ongoing

3.3.2 Stage 3 Energy Centre Progress

Activity	% complete	Comments
Ground Floor Slab	100	
Central Core	72	Wall complete, stairs & capping slab to complete
Frame	32	Level 1 slabs poured, Level 2 Formwork & rebar in progress.

3.3.2(a) Activities starting in the next month

None

4. DESIGN DEVELOPMENT

4.1 Stage 1 Labs

RDD schedule	The outstanding Wallace Whittle M&E drawings are particularly urgent.
Sample Schedule	There are presently no outstanding actions.
Commissioning	Timetable in presentation to be closed out.

- The Board have completed the sign-off of the (Series 70) loaded drawings, and have changed the quantity of Group 1 Equipment with an overall net increase. BMCL are currently pursuing instruction, whilst BMJ update unfettered drawings.
- BMCL are awaiting a coordinated equipment schedule for Equipments groups 2, 3, 4 etc. (BMCL understand the current version being worked upon is rev 10). In the meantime BMCL continues to work to the current drawings.
- In respect of Cat 3 Labs Level 3 work continues as current drawings, and the Board are currently reporting no non-compliance issues. Level 4 – the Board are advising further meetings with the Police are required to determine final design parameters and compliance. The consultants have adjusted the drawings as requested by the Board and unless design is resolved there is potential to impact upon the construction programme.
- Approval of fume cabinets will be undertaken by the Board as soon as manufacturers drawings are prepared, this must be completed as quickly as possible.
- The Labs Design has achieved an interim score of 72.29% and a BREEAM rating of Excellent. An interim audit of the construction phase has been carried out by Ecoteric.
- 90% of the Architectural related elements of the Project have been signed-off for RDD. BMCL await Board response to approx 150 documents.
- The strategies for Signage/Access/Security/Lock Suiting have been fully co-ordinated with the Design Team/Board & End Users and the detail has now been submitted for RDD signed off.
- BMCL have completed another cycle of review with the Board on their proposed operation strategies and the Board have confirmed they will issue a first draft of the Operational Management Procedures and FM Procedures by w/c 25th July 2011. This to include fire and mobilisation strategy sections. This document is also needed for local authority matters e.g. planning.
- A workshop was held with the Board and their specialist advisers on Fire Safety. Discrepancies noted by the Board Advisors have been attended to, and revised drawings have now been submitted.
- The final scope/drawings for the Labs Interim Solution have been completed by BMJ, which now include all the interim external signage. These drawing will also form part of the documentation submitted to GCC to discharge Planning Conditions 11 & 12.
- 95% of the material samples presented to the Board to date have been signed off. Arrangements have been made to present the remaining samples over the next couple of weeks: Wall protection, hard landscaping, external furniture, external signage.

- Wording has been provided to the Board in respect of a PMI to close out the code compliance requirements, not applicable to the Labs building.

Building Control

- All Warrants for the Labs have been signed off by BCO. The design team are now collating amended drawings/information to review for any warrant amendment applications that may be required
- An overview meeting with building control is to take place to see that all relevant documentation, including site inspections are in place for their final agreement as we move towards PC

Planning Conditions

- 23 of 32 of the conditions have been cleared.
- LPA approved details that will result in non compliance matters under the RCC need to be resolved. It has been agreed with the board that these RCC requirements provide no added value to the contract, particular as there is no intention for the NHS to ask for the road to be adopted. Work continues to reach agreement with the authorities and the board to achieve the optimum solution.

4.2 Stage 3 Adults and Children's, and Energy Centre

1:50 user group meetings	User group meetings are complete, the outstanding column position decisions (4) are required to be fixed urgently to prevent delay to foundation and frame design and progress
Facade mock up	Revisions to be presented to the Board during week commencing 11 July.
RDD schedule	RDD schedule has had initial review by Board and is being updated with dates for presenting to Board in next 2 weeks for review.
Sample Schedule	Content to be agreed between both parties by end of July

- U value presentation to the Board took place on 4th May 2011 updating status of original compliance position with the design now being developed to the Board preferred enhanced option.
- All appendix K submissions are complete and uploaded to a reference aconex site 'NSGH Notice to proceed':
- Fire Safety – meetings with the Board are ongoing, with progress being made in respect of extinguishers, call points, cause and effect and sprinkler exclusions. The Board are to meet with Buro Happold (their technical advisors) to agree all issues closed aside from atrium roof controls.
- The cause and effect initial presentation has been made to the Board, and comments are awaited

- The consultants have prepared a look ahead schedule of meetings to set out the review process for the whole of the hospitals. To include a post 1:50 Sign off Programme which includes the remaining elevations is being prepared for review with the Board.
- Ground conditions - Monitoring in respect on ground conditions is ongoing with no further adverse findings to date.
- Gas - The report submitted to the Authorities has now been approved and no gas membrane is required within substructure design.
- Medical planning - User Group Meetings have been completed for loaded rooms and final sign off drawings are being received. A review of the change control document is being undertaken with Doigs.
- Food Waste – The BMCL proposed 'environmental waste to water' system is part way through being trialled by the NHS, with extremely positive response. Formal sign off by the Board is highly anticipated.
- A&C Mock-ups for external facade now ready for Board sign off. A working blind and shower mock-up is being constructed.
- Tertiary glass replacement is under review with the Board so methodology/strategy has been brought forward to consider glass removal and access to blinds. Full design to be concluded as part of the maintenance and access strategy with the CDMC
- RDD schedule has been submitted to and commented upon by the Board in respect of content.

Building Control

- Warrant applications and approvals are being advanced systematically.
- Lengthy comments from Building Control on Stage 8 Fire Strategy have been received and are being addressed by the Consultants. Many issues contained therein have already been agreed, and this has been escalated within the Building control Dept, and recognised as error. High level meetings have been arranged to seek to improve the communication process.

Planning Conditions

- No further conditions have been cleared in addition to the 57 of 91 previously reported.

4.3 Board Matters

Drafting of Management strategies to accord with the design are to be continued in respect of the following;

- Development of Fire Safety Management Procedures (Work in progress by the Board)
- Development of Disabled Access Statement
- Provision of Aseptic suite URS and VMP
- Continued development of FM management strategies

Board to review Imaging Equipment and associated RFI from Brookfield.

5 Construction and Logistics

5.1 Stage 1 Labs

- Fit out works continue to progress well with Level 1, Area 1 & 2 subject to final coat paint in advance of fixed furniture works. On balance areas are on programme and no delay recorded through the critical path core laboratory areas. Key subcontractors continually maintaining momentum to get areas handed over to following trades. Areas are continually monitored to identify any areas of slippage, and appropriate measures taken to mitigate delays.
- With the completion of the atrium glazing the building is substantially weather tight, minor works remain with the Multi faith area roof and ground floor windows. Primary envelope works ongoing are the render and granite block installation, works that do not impact the weather tightness of the building. Detailed coordination with energy centre works continues to progress the north elevation render of the Laboratory building.
- Ongoing external works to Laboratory include HV cable installation in advance of the service yard concrete slab preparation work.
- Lift GL1 is complete, temporary protection measures are in place and this lift is currently now in use for material movement primarily to the basement. The temporary goods hoist will remain in use for another few weeks to load out ceiling mounted service materials and complete the service yard slab for full access to GL1.

5.2 Stage 3 Works

5.2.1 Adults and Children's

- The piling mat is substantially complete on ground floor level and currently being extended into the basement area.
- There are 7 number piling rigs working on site. All large diameter 1200mm piles have been installed to the cores with Cores G/F/A/B/C & D all completed. Despite heavy rain in June the increase in number of rigs and the use of fully sectional cased piles the outputs for the piling have increased.
- The well point system has been fully installed with Full extraction licence in place. Monitoring of the system has highlighted no issues regarding settlement to the surrounding area.
- Bulk excavation has started in Core G with Blinding in place to allow Pile caps below slip core to commence.
- The batter angle is at 1 to 1 which is being monitored as some remedial works have been undertaken as there has been unearthing at the toe of the batter. Batter angles will be increased where this is required.
- Core F bulk excavation will commence week commencing 11 July 2011. The ground conditions in this area have been found to be better with the 1 to 1 batter anticipated in this zone.

- The slip core formwork for Core G will be on site mid July 2011 with the core construction slip starting soon thereafter.
- Works to the link tunnel will be completed in 3 phases to maintain access and traffic management to the site. Bulk excavation has started in phase one with pile caps currently being installed.
- TC 4 was installed over the weekend of 18&19/6/11 and is operational.

5.2.2 Energy Centre

- Good progress has been made by Dunne to both areas (GL 1-6 and GL 6-10) of the concrete frame, with core walls for the lift and stair area now complete

5.2.3 Other General Matters

5.2.3.1 Hoardings

Hoarding works are complete until the Linthouse Burn diversion works are complete and the A&E substation relocated. Issues re fire tender access have been resolved allowing the completion of hoarding at maternity.

5.2.3.2 Jenny's Burn Diversion.

Works are complete to the siphon system and drainage progressing to the connection at Hardgate Road.

5.2.3.3 Linthouse Burn Diversion Works

George Leslie Ltd have submitted a revised programme showing a completion date of 22/7/11. However BM anticipate an earliest possible completion date of 8/8/11, allowing traffic to divert back onto the new aligned road and enabling works for piling to commence to the old burn area.

5.2.3.4 New 33kv Substation

Transformers now installed to the substation by Scottish Power, and power on date is scheduled for the 18th of August 2011.

All envelope work to substation complete (roofing, louvers, and doors).

5.2.3.5 VIE Relocation

Improvement works to access the rear of the VIE ramp are in progress to provide a fire escape route and potentially access to the decontamination unit.

5.2.3.6 Boulevard Approach Road from Renfrew Road

Levels are being made up, and a section of drainage installed to enable diversion of the Daily Record power cable. The cable should be diverted by the end of July allowing construction of the Orange Mast retaining wall and Boulevard road construction to progress.

5.3. Summary of key Actions

5.3.1 Labs

Board	
HV Cable passing through Scottish water land	Instruction to BMCE following response from Scottish Power
Managed Equipment Supplier	Information on key equipment to be provided for service co ordination.
Access control to microbiology	PMI issued
Equipment List	Groups 2 -4 are still to be finalised
Equipment List	PMI to be issued following conclusion of final review
Crown cut veneer to doors	PMI issued
Commissioning	Close out actions to achieve timetable
Way finding and Signage	Needs to be close out by end of July
Group 2 Equipment (Fixtures and fittings)	Need to be delivered to site by Mid August.

Brookfield Multiplex	
HV Cable passing through Scottish water land	Monitor programme impacts (if any) of cable move.
Commissioning	Close out actions to achieve timetable

5.3.2 Adults and Children's

Board	
Surgical substation relocation	Board to confirm programme and sequence of works
HV Cable passing through Scottish water land	Instruction given to Scottish Power by Board
Neurosurgical and Neo natal building drawings	Confirmation that the drawings received by Brookfield Multiplex can be used by them to establish connection works to the existing buildings.
Managed Equipment Supplier	Information on key equipment to be provided for service co ordination.

Brookfield Multiplex	
Mock Up Panels	Complete revisions and offer to board for approval w/c 11/7
HV Cable passing through Scottish water land	Programme to be monitored following instruction to Scottish Power by Board
Linthouse Burn Works	Complete Lintthouse Burn works diversion & reopen Blue light route

5.4 Procurement

Overall on programme.

There are no outstanding matters in procurement that will affect progress

5.4.1 Stage 1 Labs

Detailed procurement schedule
Report for period week 80 to 03 July 2011 Overall procurement is on programme.

Package	Status	Package Contractor	Start on Site
Waste Management	Order Placed	Recycling & Services (SKIPEEZ)	Dec 2010
Substructure and Concrete frame	Order placed	Dunne	Mar 2010
Temporary Electrical	Order Placed	Wingate	Mar 2010
Hoarding (Stage 1)	Order Placed	Darfen	Mar 2010
Dry Lining and Partitions	Order placed	Astins	Nov 2010
SFS wall lining	Order placed	Prater	Nov 2010
Mechanical Electrical Plumbing	Order placed	Mercury	Nov 2010
Steelwork	Order placed	Pavo	Nov 2010
Stairs and Gen metalwork	Order placed	M&S	Nov 2010
Unitised Cladding	Order placed	Structal	Jan 2011
Green and Membrane Roofing	Order placed	Prater	Jan 2011
Windows (punched)	Order placed	Prater	Jan 2011
Lifts	Order placed	Schindler	Feb 2011
Copper metal cladding to roof	Order placed	Prater	May 2011
Aluminium Cladding	Order placed	Prater	April 2011
Curtain walling (stair cores) Atrium 2	Order placed	Prater	Feb 2011
Louvres	Order placed	Prater	Mar 2011
Insulated render	Order placed	Prater	April 2011
Blockwork	Order placed	Cainey and Smith	Jan 2011
Diamond drilling	Order placed	Holemaster	
Hoist (construction)	Order Placed	Hoist & Access Services Ltd	Jan 2011
Hard & Soft Flooring	Order placed	Harndec	April 2011
Doors and Ironmongery	Order Placed	TDSL	Jun 2011
CAT 3 Labs	Order Placed	Atlas Clean Air	Jul 2011
External Doors	Order Placed	Ascot Doors	May 2011
Roller Shutters Doors	Order Placed	Ascot Doors	Jun 2011
Temperature Controlled Rooms	Order Placed	ACE	Jun 2011
Mortuary Equipment PM tables	Order Placed	Steelline	Aug 2011
Mortuary Equipment Body Stores	Order Placed	Milby	Aug 2011
Painting	Order Placed	Baxter & Gillespie	Apr 2011
Suspended Ceilings	Order Placed	Roskel Contracts	Apr 2011
Laboratory Furniture / Fixed Furniture	Order placed	ASSAB Laboratory Furniture	Jun 2011
Windows Boards	Order placed	Morris & Spottiswood (part of ASSAB order for Lab Furniture)	Apr 2011
Fire Protection	Meeting held with Holemasters. Variation to existing Sub-Contract Order for Diamond Drilling	Holemasters	May 2011
Sundry Joinery (skirtings, mirrors, whiteboards, dispensers, shelving, reception counter)	Finalising tenders		Jun 2011

Package	Status	Package Contractor	Start on Site
Sliding/folding partitions	Tenders received and under review.		Jul 11
Fume cupboards / safety cabinets	Revised price for additional M&E items for Board instruction		Jul 11
Toilet cubicles	Crawfords via Mercury (providing IPS)	Crawfords (via Mercury)	Jul 11
Wall Protection	Tenders received Gradus items not as specified require Board sign off.		Aug 11
Internal Glazed Screens (Optima)	Tenders received from Worksmart, Veitchi. Awaiting price from Astins		Aug 11
Mastic	Tender being prepared		Sep 11
Hygienic wall finishes	Tender being prepared		
Blinds/Curtains/Cubicle tracks	Tender being prepared		
Signage	Tender being prepared		
Soft / Hard Landscaping	Tender being prepared		
Builders Clean	Tender being prepared		

5.4.2 Stage 3 Adults & Children's

Report for period week 80 to 03 July 2011

Overall procurement is on programme.

Package number	Works Package	Status	Package Contractor	Start on Site
	Preliminaries Procurement			
	Hoarding		SitexOrbis	28/03/11
	Tower Cranes		Dunne	13/06/11
	Temp Electrics & Plumbing		Wingate	13/06/11
	Scaffolding			01/08/11
	Hoists			16/10/12
	Enabling			
WP005	Main External Drainage - Jennys Burn incl. adjacent deep		Dunne	06/06/11

Package number	Works Package	Status	Package Contractor	Start on Site
WP010	Early Demolition of Stage 3A building AN Biochem			10/05/12
WP010	Demolition Stage 3A			17/08/15
WP030	Excavation & Earthworks		Dunne	07/03/11
	Substructure			
WP100	Concrete Substructure & Super-Structure (Dunne)		Dunne	09/06/11
WP110	Piling		Cementation Skanska	29/03/11
WP120'	Remaining Site Works (incl. Linthouse Burn Diversion)		George Leslie	24/01/11
	Structural			
WP200	Structural Steelwork - General			20/11/12
WP202	Secondary Steel			20/11/12
WP202	Metal Decking			20/02/12
WP210	Pre-Cast Concrete (Dunne)		Dunne	14/09/11
WP211	Pre-Cast Concrete Stairs (Dunne)		Dunne	02/08/11
WP220	Fire Protection			02/11/12
WP230	Heli-pad			15/02/13
WP240	Structural Steel - Level 4 Plant Room			20/11/12
WP250	Structural Steel - Level 12 Plant Room			15/02/13
WP260	Structural Steel - Helipad			15/02/13
WP270	Structural Steel - Atrium Links (Zone K)			13/02/12
WP280	Structural Steel - Link Bridges (Neuro & Neo-Natal)			17/01/13
	Envelope			
WP300	Masonry			08/02/12
WP310	Render			08/02/12
WP320	Metal Cladding			08/02/12
WP321	Zinc Cladding			16/08/16
WP330	Stone Cladding			16/08/16
WP335	Rain Screen Cladding			16/08/16
WP336	Reynobond Rainscreen Cladding			16/08/16
WP340	Curtain Walling			17/01/13
WP342	Structural Glazing			16/08/16
WP343	Unitised Curtain Walling			26/11/12
WP350	Louvres			01/06/12
WP360	Soffit Cladding			16/08/16
WP370	Windows & Glazing			16/08/16
WP380	External Doors			16/08/16
WP385	Glazed Automatic Doors			13/09/13
WP390	Structural Framing Systems			08/02/12
WP395	Interstitial Blinds			16/08/16
	Roof			
WP400	Flat Roof Coverings			11/06/12
WP410	Green Roof			10/06/13
WP411	Green Roof Fencing			10/02/14
WP412	Green Roofing Canopies			10/02/14
WP413	Green Roof Structures			21/05/14
WP414	Green Roof Furniture			10/02/14
WP415	Green Roof BWIC			10/02/14

Package number	Works Package	Status	Package Contractor	Start on Site
WP420	ETFE			19/03/13
WP430	Roof Lights			21/01/13
WP440	Roof Edge Protection			03/08/12
WP450	Rainwater Drainage			11/06/12
WP460	Facade cleaning			26/11/12
WP470	Roof Turret Vents			25/06/12
WP480	Glazed Canopies			13/09/13
WP490	External Architectural Metalwork			16/08/16
WP491	External Miscellaneous Metalwork			16/08/16
	Special Packages			
WP600	Robotics (Swiss Log)		Swiss Log	16/01/12
WP610	Catering Equipment (CDS)			12/03/13
WP620	Lifts Installation (Cars & Escalator) (Schindler)		Schindler	13/11/12
WP630	Access Equipment			30/07/13
WP640	Fire Stopping			15/02/13
WP645	Fire Shutters / Smoke Screens			07/11/12
WP650	Acoustic Stopping			15/02/13
WP655	Mastic Pointing			28/01/13
WP660	VIE Compound			05/08/13
WP670	Hospital Feature Areas			12/03/13
WP680	Alterations to Existing Buildings			17/01/13
	Finishes			
WP700	Partitions & Dry Lining			27/02/12
WP701	SFS Internal			12/03/13
WP702	Linings to Atrium Pods			12/03/13
WP705	Toilet Cubicles			21/01/13
WP708	Internal Glazed Screens			02/11/12
WP709	Wall Protection			21/01/13
WP710	Internal Doors			02/11/12
WP711	Ironmongery			02/11/12
WP715	Internal Roller Shutters			15/05/13
WP720	General Joinery			06/07/12
WP721	Special Joinery			06/07/12
WP722	Hatches Specialist (subject to strategy)			23/04/13
WP725	Blind boxes			06/07/12
WP730	Suspended Ceilings			18/09/12
WP731	Fabric Ceilings			26/07/13
WP735	MF Ceilings			18/09/12
WP737	Timber Ceilings			12/03/13
WP740	Ceramic Tiling			18/09/13
WP741	Entrance Matting			18/09/13
WP742	Terrazzo			18/09/13
WP750	Raised Flooring			18/05/12
WP752	Timber Floors			12/03/13
WP760	Vinyl Floors			18/05/12
WP770	Plant room flooring			30/08/12

Package number	Works Package	Status	Package Contractor	Start on Site
WP775	Screeds			18/05/12
WP780	Painting			11/09/12
WP785	Internal Render			02/05/13
WP788	Internal Wall Cladding			09/11/12
WP789	Radiation Protection			01/06/12
	External Works			
WP800	Hard Landscaping			02/07/13
WP801	Resin Pavings			21/05/14
WP805	Road Works (Dunne)			11/07/11
WP807	Playtop Surfaces			21/05/14
WP810	Soft Landscaping / Planting			02/07/13
WP815	Courtyard Landscaping			02/07/13
WP830	Fencing			12/08/13
WP835	Builders work (External Landscaping)			02/07/13
WP840	Street Furniture			21/05/14
WP841	Play Equipment			21/05/14
WP845	Signage			21/05/14
WP855	Street Lighting (Mercury)			06/09/13
WP856	Traffic Signals			02/10/14
WP860	Canopies			12/08/13
WP890	External Shelters			21/05/14
WP895	Bus Shelters			02/09/14
	Fit Out			
WP900	HTM Furniture			30/11/12
WP902	Cubical Tracks			21/01/13
WP905	Nurse Stations & Desks			30/11/12
WP910	Blinds			21/01/13
WP920	Metalwork			27/09/12
WP921	Architectural Metalwork			29/10/13
WP925	Sundry Metalwork			27/09/12
WP926	M&E Access Metalwork/Riser floor decks			27/09/12
WP930	Way finding Signage			21/01/13
WP940	Art			18/12/12
WP950	Coffee Areas			27/01/14
WP960	Client Fit Out			11/09/13
WP970	Metal External Doors			16/08/16
WP980	Clean Rooms / Cat III Fit Out (Subject to strategy)			28/02/13
WP985	Audiology Rooms (Subject to Checking)			06/05/13

6. PROJECT SUPERVISOR

6.1 New Laboratory Facility

Visits to the site during June indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements with due regard to health and safety.

Capita continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with their visual site inspections. Throughout, the standard of workmanship is generally good and operations are being carried out in an acceptable manner.

Structural elements to the Laboratories and FM Hub have now been substantially completed, with only limited blockwork areas, minor snagging works and builders work in connection with services still ongoing.

Capita continue to have regular discussions and meetings with the site teams in connection with general site matters and their Supervisor's Communication and Defect Notifications. Capita are being assisted by the site teams in resolving various construction, mechanical, electrical, quality issues and information regarding drawings. Information continues to be Aconex.

The roof work in areas 4, 5, and 6 is nearing completion and Capita await the Certificates of Waterproofing integrity for these areas.

Together with Currie & Brown, Capita have identified rooms which they consider suitable for acoustic testing. Capita await BMCLs proposals and after further discussion with Brookfield will present the information to the NHS Team for deliberation.

Capita carried out a preliminary inspection of the Benchmark Rooms and BMCL confirmed that they would invite Capita to inspect them further to comment on compliance and quality.

Capita noted that the joints of the Fermacell walls in some locations are pronounced especially on the white painted walls. Feathering/skimming to the walls has been carried out to ensure that they are within tolerances and Capita await confirmation from BMCL that this has been carried out successfully.

Visits to the site during the period indicated that the M&E elements of construction inspected are progressing well on site. In general, all mechanical services installations are progressing well. The standard is of a high quality.

Protection of open ends of pipes and ductwork is being observed and provided throughout the site.

Electrical works are well in hand on all levels, and being carried out to the same high standard as the mechanical systems.

Cabling is being installed within the containment throughout the floors and again is being carried out to a high standard.

Extensive data cabling has now been installed on cable tray. Caution needs to be maintained where the cabling leave the tray so that damage does not occur on the cable until final connections have been made.

Overall, the installation and co-ordination of services appear to be well organized, although some minor special co-ordination issues are being observed as the level of service installation increases. These minor issues are being remedied on site.

Supervisor's Communication General Matters/Other Instructions (CI 13.1) No 29 to 39 were issued. These included inadequate supports to duct work, inadequate access to hatches, ducts with open ends and in contact with the structure, damaged boiler casing, expansion bellows, anchors and guides not installed properly. Capita also noted that there was a likelihood of flanking transmission sound between rooms.

Supervisor's Notification of Defect (CI 42.2) No 3 to 10 were issued. These included the positioning of commissioning sets on pipework, supports for header pipework and pumps. Fire damper also installed without independent supports, fire damper access and fire dampers that should be motorized have been fitted with manual fuseable links. Light fitting and ductings have been erected in contact with the ceiling and window reveals have been constructed prior to fitting the 1 hour fire board. Defect 2 is closed out but defect 1 remains open.

6.2 New Adult and Children's Hospitals

Energy Centre ground and foundation works are now completed and concreting to the first floor slab has been poured during June. Concreting to the western walls has also progressed during the period. Quality to date appears to be satisfactory. Skanska/Cementation while progressing steadily through the period, have incurred some further NCRs, specifically re concrete stiffening before reinforcement being placed, and these issues are being addressed.

With the dewatering system now operating fully, excavation works for pile caps, drainage etc has commenced in area ZE, core G, with ground conditions being kept under review. Works to the Linthouse Burn diversion have again progressed steadily but slowly during the period with various sections satisfactorily tested and functioning. BMCL sub-contractor Dunne has completed the culvert siphon and other sections of Jenny's Burn successfully during the period, as well as other specific sections of external foul sewer at the northern edge of the site. These works appear generally to be progressing in accordance with the Client's requirements and with due regard to quality.

7. COMMERCIAL

7.1 Budget v Cost Plan – TP/MP

Adult and Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on Target Price.

There has been 27 Nr Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties.

Contract Award Target Price	£575,111,382.00
Compensation Event Notices Issued – formally closed out	-£225,155.00
Compensation Event Notices Issued – awaiting close out	0
Current Estimated Contract Target Price	£574,886,227.00

Compensation Events awaiting agreement include:-

- Linthouse Burn Diversion Delay

7.2 Value Engineering/Opportunities

A Joint Value Engineering/Opportunities Register is maintained and reviewed regularly to capture and agree detailed solutions to achieve the Board output requirements in a different manner that will provide the appropriate quality with a reduced defined cost. The schedule is reviewed at monthly Commercial Group meetings. Key VE agreed and implemented include

- Tunnel reconfiguration
- Labs Basement floor level
- Mortuary Ventilation
- Office pod sun shading
- Lab stairs & handrails
- Labs ground floor external wall change
- Labs alternative partition specification
- Labs external wall service access panels
- Labs reduction to nr of Chillers
- Labs rationalise pumping arrangement for CHW distribution
- Labs rationalise pumping arrangement for LTHW distribution
- Hospitals Bi fold doors to en-suites
- Hospital reduction to electrical load
- Hospital reduction to glazed panels at touchdown spaces
- Labs alternative door frame & ironmongery specification
- Labs alternative flat roof membrane spec
- Hospital change to Reserve Capacity
- Hospitals Pressurisation Units
- Hospitals Treatment area ventilation
- Hospitals Ward Air Change Rate
- Hospitals Temperature reduction
- Hospitals Fire strategy
- Energy Centre Visible renewables
- Hospital Chillers

- Hospitals Electrical Dual Distribution
- Hospitals Switchgear specification
- Construction Water Borehole
- Hospitals ventilation return air ductwork
- Labs ventilation return air ductwork
- Labs floor finishes
- Labs Atrium floor finish
- Labs change to standard Labs sink sizes
- Labs change to suspended ceiling edge detail
- Change in drainage pipework specification

7.3 Defined Cost Audits

Sample audits are undertaken as part of the Payment Assessment Process. All information requested is provided timeously. Issues are dealt with on an ongoing basis and closed out. A visit to Mercury Engineering Head Office has taken place since last Report, and a detailed review of accounting systems, cost etc took place. This highlighted a number of procedural / accrual issues that were resolved prior to the next Assessment.

7.4.1.1 Early Warning Notices

A summary of all Early Warning Notifications (EWNs), Project Managers Instructions (PMIs) and Compensation Event Notices (CENs) activity as at 21st June 2011 is detailed below:

- Brookfield Multiplex have issued 104 EWNs to the Board, 86 have been closed out and 18 are currently open.
- The Board have issued 33 EWNs to Brookfield Multiplex, 31 have been closed out and 2 are currently open.
- The Board have issued 94 PMIs to Brookfield Multiplex, 76 have been actioned and closed and 18 are currently open.
- 27 CENs have been concluded.

Weekly meetings to review EWNs, PMIs and CENs are ongoing.

Full details of all EWNs, PMIs and CE's can be found in the EW Tracker, available from the Board on request.

7.5 Cashflow

The cashflow for 2011/2012 is not to exceed £125,000,000 ex VAT based on the April 2011 submitted cashflows, with a target of around £122,000,000 to suit current board funding availability. BMCL are identifying materials for advance purchase which will be presented to the Board Team for discussion/approval.

7.6 Monthly Payments

Assessment Nr 18 was processed and issued on 19th July 2011 as follows:

PSCP	Stage 1	£	49,972,449.00
	Stage 2	£	17,827,403.00
	Stage 3	£	24,190,617.00
	Stage 3A	£	
PSCP Work Done to Date		£	91,990,469.00
	Deduct retention free amount	£	0.00
	Sub total	£	91,990,469.00
	Retention	£	-2,498,622.00
	Sub total	£	89,491,847.00
	Deduct previous payments	£	78,502,812.00
	Sub total	£	10,989,035.00
Add VAT %	20.00%	on £ 10989035	£ 2,197,807.00
Amount due		£	13,186,842.00

8. COMMISSIONING**8.1 New Adult and Children's Hospitals**

Nothing to report.

8.2 New Laboratory Project

Discipline specific Migration groups have now been set up and currently the Service transfer Owners (TSMs) for the new SGH Lab are developing the Migration Plan and Service Continuity Plan for the move from current sites into the new SGH Lab. The Migration period has been set as 10 March 2012 to 30 June 2012.

Redesign, Transition and Commissioning Group

- Service Migration Plan - first draft will be prepared by 28th July 2011
- Service Continuity Plan - first draft will be prepared by 28th July 2011
- Equipment Gap Analysis - first draft has been completed
- Works to bring together the Gap Analysis, 1:50 Equipment List and MSC Equipment List into one database (forming one central Equipment information repository) is ongoing and expected to be concluded by end of July 2011.

Transport and Traceability

- Traceability system for tracking specimens (pathology and Microbiology in the first instance) - being sourced, together with funding.
- Transport requirements Specification document developed by labs being updated to incorporate comments from FM Directorate.

IT

The Board are continuing to look at GP Order Comms system and options for Acute Order Comms Building Telepath system

HR

Continuing the staff transition process.

Equipment (MSC)

The Board will sign off the contract for the Managed Service Contract on 8th August 2011

The gas exercise is now complete with issue regarding supply of gases and gas containers still to be confirmed if included within the MSC.

The procurement options for the Fume Cupboards and Safety Cabinets has been considered by the Board's Acute Services Strategy Board Executive Sub-group and Brookfield have been advised of the preferred procurement route. The Board and BMCL continue to finalise the Fume Cupboards and Safety Cabinets tender information.

9. ENABLING WORKS**9.1.1 Scottish Water Land**

Legal work substantially complete, Orange Telecoms require to sign side document to missives to complete land transaction. New Scottish Water access road works have been completed.

Discussion between NHS and BMCL ongoing to determine optimal solution to provide the boundary fencing.

9.1.2 Scottish Ambulance Service (SAS)

No further action in respect of NHS and BMCL.

9.3 Helicopter and Construction Works Interface

New arrangements for landings of SAS helicopter services are in place between SAS/Bond, NHS and ARCC at Lossiemouth. Helicopter landings at the Southern General Hospital ceased on 29th March 2011 at 07.30 hrs.

9.4 Demolitions

Demolitions works are now complete with exception of a number of ducts and isolated foundations. These outstanding items will be incorporated into Dunne's package for Stage 3.

New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield MULTIPLEX

Monthly Progress Report Appendices

July 2011

Appendix A – Site Photographs





Appendix B – 6 Week look-ahead programme Stage 1

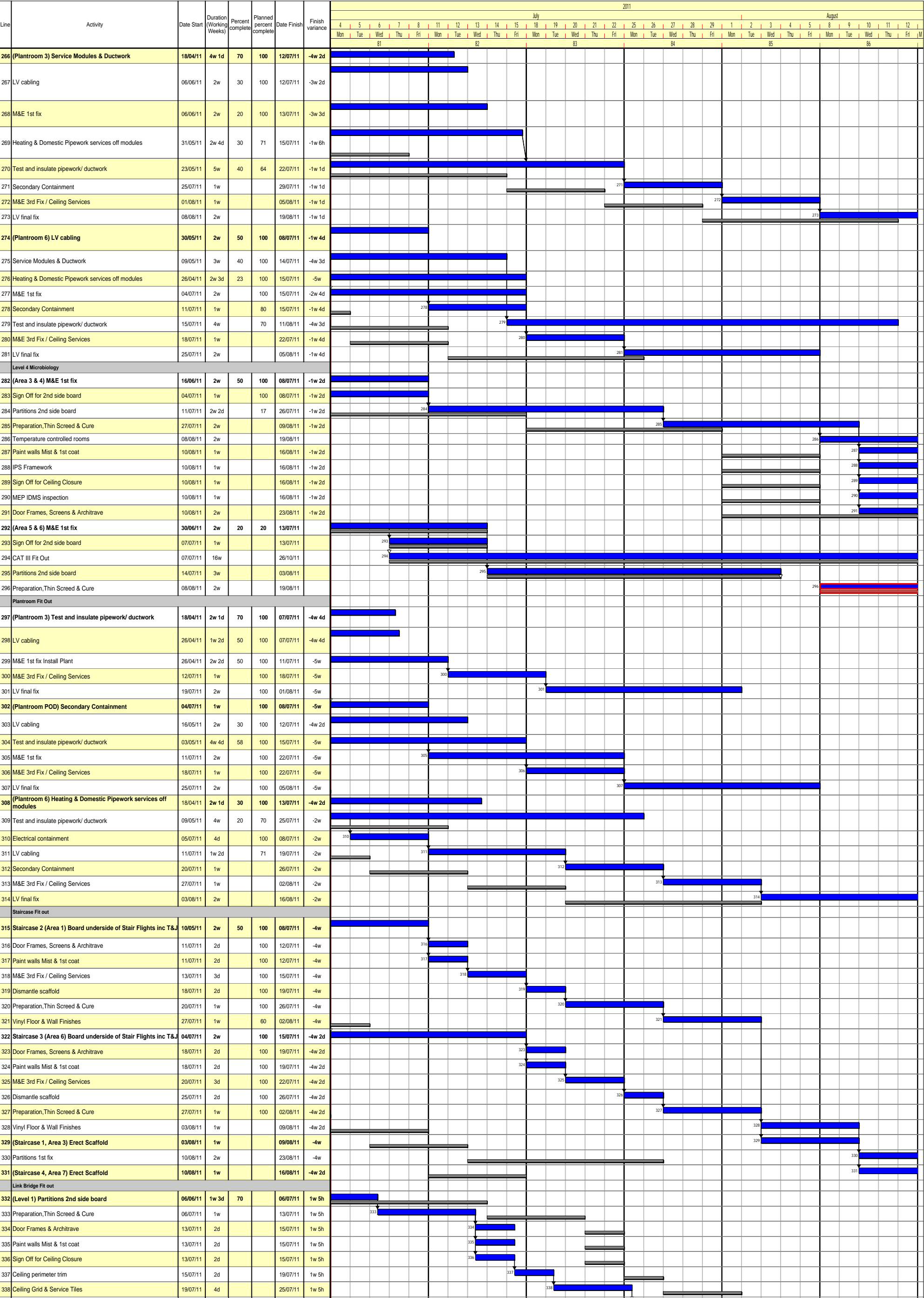
Line	Activity	Date Start	Duration (Working Weeks)	Percent complete	Planned percent complete	Date Finish	Finish variance	2011																																									
								July														August																											
								4	5	6	7	8	11	12	13	14	15	18	19	20	21	22	25	26	27	28	29	1	2	3	4	5	8	9	10	11	12												
								Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri												
								81							82							83							84							85							86						
Envelope																																																	
Unitised Cladding																																																	
Install unitised curtain wall frames																																																	
1	Area 7 (POD) GF	20/06/11	2w 1d	90	100	05/07/11	-3w 3d																																										
2	Multifaith room	16/06/11	2w 1d	80	82	06/07/11	-1h 36min																																										
Unitised Cladding																																																	
3	Entrance screens, copings, smoke stops, doors, soffits	13/05/11	12w 1d	59	59	05/08/11																																											
4	Install Glass Brise soleill	04/07/11	12w			23/09/11																																											
Roofing Works																																																	
Concrete Deck Roof																																																	
Area 3 & 4																																																	
5	Finishes	09/05/11	2w	50	100	08/07/11	-2w 3d																																										
Area 7																																																	
6	Structural waterproofing (POD Concrete roof)	18/04/11	2w 3d	90	100	05/07/11	-3w 4d																																										
7	Finishes (POD Concrete roof)	09/05/11	2w	10	100	14/07/11	-3w 3d																																										
8	Install coping	15/07/11	1w		100	21/07/11	-3w 3d																																										
Windows (Praters)																																																	
Level 0																																																	
9	Area 5 & 6	27/04/11	1w	50	100	06/07/11	-1w 3d																																										
10	Glazing to Level 0	06/05/11	1w	50	100	06/07/11	-2d 4h																																										
Copper Cladding																																																	
11	Copper Cladding to managers Office	11/04/11	2w	30	100	12/07/11	-3w 2d																																										
12	Copper metal Cladding to the Pod	18/04/11	2w	60	100	07/07/11	-4w 4d																																										
13	Copper Cladding to flue	18/04/11	2w	5	100	15/07/11	-3w 5d																																										
14	Complete Copper metal Cladding to the POD roof light area	08/07/11	1w		100	14/07/11	-4w 4d																																										
Insulated Render																																																	
Render Area 1 & 2																																																	
Elevation 7																																																	
15	Insulation, boards and rails	11/04/11	1w	30	100	07/07/11	-4w 5d																																										
16	Render	07/07/11	1w		100	14/07/11	-4w 5d																																										
Render Area 1 & 2																																																	
17	Install coping	03/05/11	2w	50	100	14/07/11	-3w 3d																																										
Render Area 3 & 4																																																	
Elevation 5 GL A6 - A1																																																	
18	Render	04/07/11	4d		100	07/07/11	-4w 2d																																										
Elevation 18 - 16																																																	
19	Render	27/04/11	1w	80	100	04/07/11	-4w																																										
Render Area 3 & 4																																																	
20	Install coping	08/07/11	2w		100	21/07/11	-4w 2d																																										
Render Area 5 & 6																																																	
Elevation 7a																																																	
21	Insulation, boards and rails	05/07/11	4d		100	08/07/11	-4w																																										
22	Render	04/07/11	1w		100	08/07/11	-3w																																										
Elevation 15 - 13																																																	
23	Insulation, boards and rails	06/05/11	1w 2d	80	100	05/07/11	-4w 2d																																										
24	Render	17/05/11	1w 2d	60	100	06/07/11	-3w 2d																																										
Render Area 5 & 6																																																	
25	Install coping	04/07/11	1w 4d		100	14/07/11	-4w 1d																																										
Cladding to link bridge																																																	
26	Single ply roofing	04/04/11	1w	70	100	05/07/11	-4w 2d																																										
27	Render	06/05/11	3w	66	100	11/07/11	-1w 3d																																										
28	Install coping	05/07/11	1w		100	12/07/11	-1w 3d																																										
Blockwork																																																	
Blockwork to Ground Floor Area																																																	
Area 4, 5 & 6 external blockwork (courtyard side)																																																	
29	GL B6 up to BA (Area 6)	12/05/11	1w 4d	20	100	13/07/11	-3w 4d																																										
Area 4, 5 & 6 external blockwork (Granite faced Blockwork)																																																	
30	GL A1/ AA - C3	18/04/11	2w	65	100	07/07/11	-3w 4d																																										
31	GL C9 - B8	06/05/11	2w	40	100	11/07/11	-2w 1d																																										
Envelope																																																	
32	External doors inc Roller shutter doors to FM area	18/05/11	4w	20	70	25/07/11	-2w																																										
33	External Soffit to office pod	07/07/11	5w			10/08/11																																											
Fitting Out / Finishes																																																	
Level -1 Mortuary																																																	
34	Area 6 (Mortuary) Sign Off for 2nd side board	13/06/11	1w	80	100	04/07/11	-2w 1d																																										
35	M&E 1st fix	06/06/11	2w	80	100	05/07/11	-2w 2d																																										
36	Partitions 2nd side board inc T&J	20/06/11	3w	33	67	18/07/11	-1w 24min																																										
37	DPM, Latex and Screed	11/07/11	2w			22/07/11																																											
38	Body Store Panel installations	28/06/11	2w	40		29/07/11																																											
39	IPS framework	25/07/11	1w			29/07/11																																											
40	MEP IDMS inspection	25/07/11	1w			29/07/11																																											
41	Paint walls Mist & 1st coat	25/07/11	1w			29/07/11																																											
42	Sign Off for Ceiling Closure	25/07/11	1w			29/07/11	1w																																										
43	Ceiling trim	25/07/11	1w			29/07/11	1w																																										
44	Door Frames, Screens & Architrave	25/07/11	2w			05/08/11																																											
45	Temperature controlled rooms	01/08/11	1w			05/08/11																																											
46	Body store installation including testing & commissioning	01/08/11	5w			02/09/11																																											
47	Ceiling Grid & Service Tiles	08/08/11	3w			26/08/11																																											
48	(Tunnels) M&E final fix	04/04/11	2w	70	100	06/07/11	-5w																																										
49	(Tunnel) Low Voltage Systems Final fix	04/04/11	2w	70	100	06/07/11	-5w																																										
Plantroom Fit Out																																																	
50	(Plantrooms 6) Service Modules & Ductwork	04/04/11	3w	90	100	05/07/11	-4w 3d																																										
51	Lighting and small power cabling	28/04/11	1w 4d	50	100	08/07/11	-4w 4h																																										
52	M&E 1st fix	03/05/11	1w 4d	50	100	08/07/11	-4w 3d																																										
53	Test and insulate pipewok	11/04/11	3w 1d	70	100	08/07/11	-4w 3d																																										
54	M&E 3rd Fix / Ceiling Services	08/07/11	2w		100	22/07/11	-4w 4h																																										

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	Date of Issue: 05/07/2011	Print Date: 06/07/2011	Drawn By: OA	Page 2 of 6	Programme No.: BM-GS1-WK-0197	Rev.: Rev. Date: 05/07/2011	

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Drawn By: OA

Page 5 of 6

Programme No.: BM-GS1-WK-0197

Rev.:

Rev. Date: 05/07/2011

This programme is strictly for information only, and will not form any part of any resulting Sub-Contract


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Appendix C – 6 Week look-ahead programme Stage 3

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By Zone



Zone G Zone H Zone F Zone D Zone K Zone A Zone E Zone J Zone B

This programme is strictly for information only, and will not form any part of any resulting Sub-Contract

New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield MULTIPLEX

Monthly Progress Report

September 2011



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1 Executive Summary

2 Health Safety and Environment

3 Programme and Progress

4 Design Development

5 Construction and Logistics

6 Project Supervisor

7 Commercial

8 Commissioning

9 Enabling Works

10 Appendices

Appendix A - Site Photographs

Appendix B - 6 Week look ahead programme Stage 1 - Will be issued separately

Appendix C - 6 Week look ahead programme Stage 3 - Will be issued separately

1. EXECUTIVE SUMMARY

1.1 Introduction

The Joint NHS /Brookfield MULTIPLEX Project Team are continuing to work on a range of tasks to ensure that the Project remains on programme i.e.

- Management and Construction of Stage 1 Laboratory and 33Kv substation on site
- Management of Risk and Change
- Cost control and management of NEC3 processes (EW/PMI/CE) for stages 1, 2 and 3
- Stage 3 Enabling Works
- Stage 3 piling and excavation works

The notes below summarises some of the key points from the detailed reports that are included in the following sections:

1.2 Health and Safety

No RIDDOR or serious injuries to report this month.

9 minor injuries reported on site.

1.3 Programme and Progress

The following programmes are awaiting upload to Sypro and will be issued separately:

- Stage 1 Laboratory 6 week lookahead programme
- Stage 3 Adult & Childrens Hospital Target Programme 6 Month lookahead programme

1.4 Design Development

a) Laboratory Project

The design development for the Laboratory Project is ongoing however nearing conclusion with circa 30 documents outstanding.

b) Adult and Children's Hospitals

The design development for the A&C Hospitals is ongoing. The next tranche of 1:50 User Group meetings have commenced. The RDD Schedule has been discussed with the NHS Team and BM is currently populating the schedule with dates.

1.5 Construction and Logistics

a) Laboratory Project

The construction of the Laboratory Facility remains on programme to complete and be handed over on 10th March 2012.

b) Adult and Children's Hospitals

The construction of the Adult and Children's Hospitals remains on programme to complete and be handed over on 28th February 2015.

c) Other General Matters

The completion of the Jenny's Burn diversion works had enabled the site offices car parking arrangements to be reinstated. Works to the Ogilvie site to create suitable parking facilities for construction site operatives is currently underway.

1.6 Project Supervisor

• New Laboratory Facility

Visits to the site during August indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employers Requirements with due regard to health and safety.

Capita continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with their site inspections. Throughout, the standard of workmanship is generally good and operations are being carried out in an acceptable manner.

- **New Adult and Children's Hospitals**

Visits to the site during August indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employers Requirements with due regard to health and safety.

Capita continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with their site inspections. Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

1.7 Commercial

Target price remains within agreement.

Compensation events which have been concluded are estimated at a saving of £150,155.00

Weekly meetings to review Early Warnings, Project Manager Instructions and Compensation Events are ongoing.

2 HEALTH, SAFETY AND ENVIRONMENT

Safety Summary (As at Project Week 88 to week ending 26th August 2011)

	Total Number			Comment and Details
	To Date	Previous	This Month	
First Aid:				2 Finger injuries, 1 Eye injury, 2 Arm injuries, 1 Hand injury 1 Foot injury, 1 Leg injury, 1 Chest muscle strain.
- Treatments	81	8	9	
- Referrals	0	0	0	
Days Lost due to Injuries:				
- Brookfield Construction UK Ltd	2	0	0	
- Subcontractor	9	0	0	
Number of men on site (going through turnstile)		669	765	
Total number on site (including office, welfare and visitors)		838	865	
OH & S Plans / WMS:				
- Received	390	43	49	
- Reviewed	337	43	49	
- Approved	308	38	37	
Work cover:				
- Inspector visits	3	0	0	
- Fines / Directions	0	0	0	
Incidents:				Non conformances: 8 yellow cards issued. 0 red cards issued in reporting period. 1 noise complaint from NHS.
- Public	2	1	1	
- Site	9	0	0	
Accident Frequency Rate (AFR) Cumulative	0.13	0.00	0.00	Company Target 0.10
12 Month Rolling AFR	0.07	0.0	0.0	Project Target (2011) 0.32
Summary of any measures undertaken to improve Site Safety last month:	1) It's Your life sessions undertaken by contractors (ongoing monthly) 2) Monthly safety focus – Power on and MEWPS 3) Operators Walk round inspection 4) Risk Assessment training compiled and rolled out 5) Updated and rolled out operator Induction.			
Work activities programmed to take place next month that require additional safety measures	1) Jump Form, Core F. Increased vehicle movement, work at height, concrete pouring. 2) Tower crane installation phase 3 – Increased vehicle movement, crane erection, work at height. 3) Backfill of and Extension to the tunnel – excavations, confined space, vehicle diversions & increased vehicle movement. 4) Installation of Star pipes – excavations, increased vehicle movement, environmental, lifting operations, work with hazardous substances. 5) Core C excavation – environmental, and increased vehicle movement. 6) Disassembly of Core G Slip form and Hoist.			

3. PROGRAMME AND PROGRESS

(As at Project Week 88 to week ending 26th August 2011)

3.1 Summary Status of the works

3.1.1 A&C Hospitals

Date of site access 28 March 2011 Week 67
 Date of completion 28 February 2015 Week 271
 Contract Duration 204 weeks
 Current Week Week 89
 Elapsed contract period 16 weeks / 7%

Phase	+/- In period	Comments
Stage 3 Linthouse Burn Works	0	Original start date 10/01/11. Original completion date 29/04/11 Projected completion date 01/08/11
Stage 3 Adults & Childrens Hospital Procurement	0	On programme
Stage 3 Adults & Childrens Hospital Construction	0	On programme
Stage 3 Energy Centre Procurement	0	On programme
Stage 3 Energy Centre Construction	0	Maintaining progress this period.

Programmes have been issued on Sypro.

3.1.2 Labs Facility

Contract Award 18 December 2009
 Date of site access 4 March 2010 (Week 11)
 Date of completion 10 March 2012 (Week 116)
 Contract Duration 105 weeks
 Current Overall Programme Week 88
 Elapsed contract period 87 weeks (83%)

Phase	+/-	Comments
Stage 1 Laboratory Procurement	0	On programme
Stage 1 Laboratory Construction	-8	Critical path delay, hence buffer consumption of 8 days on the programme.
Stage 1 Substation	0	Complete. Scottish Power completed with delivery & placement of transformers, fit out ongoing.

3.2.1 Stage 1 Labs Progress

Activity	% complete	Comments
Envelope		
Unitised Cladding	100	Cladding complete, glass brise soleil currently ongoing.
External Block work	97	Outstanding to S.W. corners of the Labs building.
Insulated Render	100	Complete
Fit out		
2 nd fix partitions	95	Ongoing to remaining Level 4 and atrium areas.
Screeding and flooring	60	Screeding now substantially complete to all areas. Vinyl is now complete to level 1 lab areas, and Level 2 areas 1 to 4, with Area 5 & 6 ongoing, and also currently ongoing on the Ground floor and on Level 3.
Painting	60	Mist coat and 1 st coat now substantially complete to areas where 2 nd side board is complete, Final coat paint now also substantially complete to Level 1 & 2 in Areas 1, 2, 3 & 4. All plant room floors, soffits and walls complete.
Suspended Ceiling	35	Ceiling grid installation is substantially complete to lab areas on Levels 1 & 2, and currently ongoing to Level 3 areas 1 to 4 as well as the POD and Mortuary (including basement).
Door frames and Architraves	85	Complete with the exception of POD level 3 and generally to Level 4
Door, Screens and ironmongery	10	Door and ironmongery installations complete to Level 1 in Area 1 & 2, and ongoing to Level 2 in the same area.
Laboratory furniture	20	Complete to Areas 1 to 3 on level 1 and Level 2 in Area 1 & 2. Installation ongoing to level 2 in Area 3 & 4. Part areas 4 and 5 on hold subject to PMI 097
Ceiling Services / M & E final fix	40	Ceiling services tracking grid and tile installation, wall/bench mounted aligning with 1st coat decorations and lab bench works.
Power On	30	Lights on to Area 1 to 4 level 1 and areas 1&2 to level 2
Plantroom Installations	55	Containment substantially complete. Mechanical services substantially complete to Area 1 and 3 Plant Room's on all levels.
Lift Installation	50	Complete to PL4, GL1, GL3, and RL1. Ongoing to, RL2, RL3 and GL2

3.2.2 Activities starting in the next month

Package	Subcontractor	Start on Site
Wall Protection	Conspec Contracts Ltd	5 th September
Builders Clean	Safehands	12 th September
Mastic Sealant	Ogilvie	5 th September

3.3.1 Stage 3 Adult's and Children's Hospital Progress

Activity	% complete	Comments
Hoarding Works	90	
FM Tunnel Extension from Labs to ZC	30	First station concrete complete and backfilled waterproofing imminent.
Linthouse Burn Diversion Works inclusive	100	Complete
Adult & Childrens Hospital Construction		
Pile Mat formation	100	Basement substantially complete.
Piling	65	1240 out of 1870 piles completed to date.
Tower Crane Foundations	20	TC8 Complete 30/07/11
Bulk Excavation	60	Core G and core F excavation complete with excavation of Zone E basement well progressed.
Pile Caps	8	Base for Core G now complete, and Zone G pile caps complete GF pile coups in progress in Zone D.
Slip Core G	80	Slipping works now in Progress
Core F	15	Pile caps poured. Wall formwork commenced.
Energy Centre Construction		
Frame	100	

3.3.2 Activities starting in the next month

- 2nd Section of Tunnel.
- Labs to A&C.
- Piling to Neuro Surgical Link Bridge.
- Core C 'Slip Form'.

4. DESIGN DEVELOPMENT

4.1 Stage 1 Labs

The AL70 series drawings have now been updated in line with Board comments. Drawings where the Board previously sought changes have now been withdrawn and BMJ will reissue as previously drawn.

The Board have issued an Equipment schedule for the Group 2 items however BM await information on groups 3, 4 etc. The Board are identifying which pieces of equipment need to be fitted before 10th March 2012.

In the meantime, BM continue to work to the current drawings.

- Cat 3 Labs

Level 3 work continues as current drawings, and the Board are currently reporting no non-compliance issues.

Level 4 – the Board are continuing to identify the requirements on level 4 and are aware of the potential impact on the construction programme.

The Board have returned the Safety Cabinet/Fume Cupboard drawings with comments, which have subsequently been incorporated by the contractor. The Board have issued a PMI for the manufacture of the units to proceed.

95% of the Architectural related elements of the project have been signed-off for RDD with approx 30 documents remaining outstanding.

The Board have given final sign-off for Access/Security/Lock Suiting drawings, however BM still await the sign-off for Signage and Way finding packages.

The completed Labs Interim Solution Drawings have been provided to the Board and a meeting to discuss these drawings is being set up.

95% of the material samples presented to the Board to date have been signed off. Arrangements have been made to present the remaining samples over the next couple of weeks: Wall protection, hard landscaping, external furniture's, external signage.

Wording has been provided to the board in respect of a PMI to close out the code compliance requirements, not applicable to the Labs building.

- Building Control

All Warrants for the Labs have been signed off by BCO. The design team are now collating amended drawings/information to review for any warrant amendment applications that may be required

- Planning Conditions.

Ironside Farrar continue to develop details with the design team to discharge outstanding planning conditions

The table below outlines the current position of the planning condition in respect of the Labs.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring or continuance	Discharged (applied for)
09/01676/DC	32	1	0	2	28 (1)
Pre Start Condition	15				15

4.2 Stage 3 Adults and Children's, and Energy Centre

Fire Safety – good progress is being made with the Board and their Technical Advisors. Agreement has been reached regarding suppression / sprinkler coverage and a series of cause and effect meetings have been scheduled to run throughout the coming months, to include the Authorities

1:50 - A programme has been agreed with the Board for final 1:50 loaded plan / RDS / EDS sign off finishing in November 2011.

The content of the RDD schedule has been agreed with the Board and the RDD Schedule is now being populated with dates.

Food Waste – The proposed 'environmental waste to water' system has been accepted by the Board and a trial of the system is underway at Inverclyde Royal Hospital. Discussions are ongoing with BMCL Legal Advisors to identify if there are any licensing obligations. The Board's Health & Safety Manager is liaising with the Scottish Government.

Maintenance and Access – a strategy workshop with BMCL, the Design Team and Board has been brought forward to inform and allay NHS concerns.

- Building Control

Warrant applications and approvals are being advanced systematically.

Lengthy comments from Building Control on Stage 8 Fire Strategy have been addressed by the Consultants.

High level meeting with Authority Directors has taken place, with agreement to improve service and communication.

A&C Facade response to Building Control queries due for issue incorporating revised condensation risk analysis.

Site service diversions, drainage & SUDS and FRA now granted.

- Consultants

WSP have increased resources to improve upon design delivery. A weekly reporting programme has been agreed until dates are achieved, this is expected to be mid September.

Planning Conditions.

The table below outlines current position of planning conditions in respect of the A & C, and energy centre.

Planning Ref	No. Conditions	o/s BCL	o/s NHS	Monitoring or continuance	Discharged (applied for)
07/01158/DC	43	6	2	3	32 (0)
of which are Pre start Conditions	23	0	1*		22
MSC No1 Consent 10/00945/DC	6	0	1	2	3 (0)
MSC No2 Consent 10/001779/DC	19	16	1	2	0 (0)
MSC No3 Consent 10/02171/DC	7	6	0	1	0 (1)
Labs Drainage Outfall consent 10/01076/DC)	7	7	0	0	0 (0)
Renfrew Road (Scottish Water land) (10/01780/DC)	1	1	0	0	0

* SEPA agreement to remove JK achieved - GCC require further MSC application

relates to the removal of any topsoil. Letter submitted to GCC requesting written permission for the removal of topsoil from the site (17.03.11)

- Facade

Board comments incorporated and mock up being amended to suit. A&C Mock-ups for external facade now ready for Board sign off prior to LPA. 2/3 scale working tertiary blind mock-up is currently being constructed as agreed with the Board in the samples room.

- Ground conditions

Contamination - no further adverse contamination findings to date.

- Gas – nothing to report
- Aquifer – Increase levels of PAH has resulting in proposed increased monitoring. The Authorities have verbally indicated their acceptance; BM await their formal confirmation.

4.3 Board Matters

Traffic Regulation Order applications are required to be made by the Board. The authorities are suggesting 9-12months response time. Technical details are in place, and negotiations' with the Authorities are ongoing, with alternate strategy for the Labs interim road solution approvals being determined.

The Board have issued a first draft copy of their Operational Management Procedures and FM Procedures, the document is currently being reviewed by BM consultants to ensure alignment with the agreed design.

Drafting of Management strategies to accord with the design are to be continued in respect of the following;

- Development of Fire Safety Management Procedures (board advised first draft before end April 2011 – still not received)
- Development of Disabled Access Statement
- Provision of Aseptic suite URS and VMP
- Continued development of FM management strategies

5 Construction and Logistics

5.1 Stage 1 Labs

Good progress has been made to fit out works against the programme with lights on to initial areas and architectural inspections and snag ongoing. Whilst as anticipated the remaining float has been lost to the critical path core laboratory areas the programme going forward recovers this position by the early part of October. Ceiling grids are progressing well, with Vinyl flooring and Laboratory furniture both meeting target dates. On balance the majority of areas are on programme and no current impact on the completion date is anticipated. Commissioning programme currently on programme through planned areas and trades.

Primary envelope work to the render and granite block installation is effectively complete. The goods hoist to the south elevation has been removed, allowing outstanding weathering matters to be addressed. Installation of glass fins, and flue stack cladding remains on target for completion by the middle of September 2011.

Service yard slab works are now complete to provide full access to beneficial use lift GL1 which is now operating with full time BMCE attendance.

5.1.1 External Works

- **Drainage**

Jenny's Burn – 95% complete with final tie-in at Linthouse outstanding.

Drainage north of A&C 70% complete with all lines in that are below the MTHW installation.

Drainage west of A&C due to start next week as revised layout now issued with drainage co-ordinated with link bridge piling.

Drainage south of A&C now underway – 5% complete.

Drainage east of A&C due to start Oct 2011.

Drainage Boulevard at Hardgate road 90% complete with one tail and the final tie in outstanding. Approval now received for this tie-in from Scottish Water and Dunnes applying for Road opening permit from GCC.

Drainage Boulevard at Govan road 60% complete. Final 1200 dia. line manhole being formed and method statement being prepared for tie-in to Scottish water chamber.

Labs 750mm drainage 90% complete – temp SUDS tie-in outstanding along with haul road cross-over. Temp. SUDS details imminent from WSP.

- **Roads**

Boulevard at Govan road – road formation 35% complete – first quadrant has been tarred to top of base course and is now being used as site haul road with the tar being lifted from old haul road to allow the levels to the second quadrant to be raised.

Retaining wall around phone mast ongoing with 2 base pours and 2 wall pours complete and the final base pour area now blinded.

- **Services**

Water –

Scottish water have installed the upgrade along Hardgate road and onto site. We (MER) have installed the incoming main from Hardgate road and the 63mm lab supply line along the More Than boundary. We await the first water meter from SW, due imminently, connection fee has been paid.

Power –

33kv sub fit out continues – SPEN predicting power on 22/09. This is behind programme but does not cause concern provided it slips no further, as we have a back up supply in place for the labs.

The "A" leg of 11kv cable is pulled through the labs, the damaged cables (insulation) have been sheath repaired. Labs back up supply is live through the transformers and into the Lab building.

Gas-

Gas connection fee paid, connection to tbc from Scottish gas networks. Must be considered a risk until we have a definitive date. Availability of energy centre governor room to allow gas to feed labs is on programme.

Surgical substation – Client has issued a programme showing completion of substation relocation by end of September 2011. Construction of concrete bases commencing 01.08.11.

MTHW/CHW water – On programme.

IT/Data – ducts going in on programme.

Earthing – Labs Earthing complete

Overall external works on programme

Programme slippage that occurred within the plant rooms has been held and positive progress made against the installation strategy put together with Mercury to mitigate any impact on following activities. Alignment with the commissioning programme has been maintained.

HV cable installations for both short term and permanent power requirements are complete. Final terminations and testing continue to progress well. Power on from the temporary substation to the primary transformer at A1 is complete, with the first lights on date to Level 1, areas 1&2 achieved during w/c 15th August 2011 as planned.

5.2 Stage 3 Works

5.2.1 Adults and Children's

- **Site Footprint**

The site was handed over to BM on Tuesday 5 April 2011. The Blue Light Route has now been moved with the New Blue light Route opened over the weekend of 23/24 July 2011.

- **Piling Mat**

The piling mat has been extended to the full site perimeter incorporating what was the blue light route. The mat in the basement is substantially completed being extended as the basement excavation is concluded.

- **Piling**

Piling works continue to be installed in line with the programme and will under the current rate of output, finish within the anticipated programme. Currently 65% of the piles are completed.

- **Well Point System**

The well point system has been fully installed with Full extraction licence in place. Monitoring of the system has highlighted no issues regarding settlement to the surrounding area.

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- **Bulk Excavation/Foundations**

Excavation to the Cores in Zone K has commenced with the main dig surrounding Core C.

The excavation to the main basement is 70% completed with the remaining area being progressed in line with programme.

Excavation for the tunnel between core F and C will commence when the pile cap has been formed in Core C.

The batter angle continues to be monitored and maintained under the same daily checks.

Pile caps and ground beams in Zone G have commenced as has zone D. The next phase of pile caps will be zone E/H and A

- **Slip Core**

Core G has began slipping and will be at full height for mid to end of September 2011. Material for slip core on C and A will arrive on site early August 2011

Jump Shutters for Core F are on site and will be installed after the pad foundation is completed 2 August 2011.

- **Link Tunnel Labs/A&C**

Works to the tunnel will be completed in 3 phases. The 1st of these phases is nearing completion with the concrete capping to the tunnel substantially completed. Backfilling around the 1st phase will commence w/c 8 August 2011 allowing the 2nd phase up to the Lab Block to commence when access roads and walkways have been altered.

- **Tower Crane Erecting**

TC 8 was installed over the weekend of 30/31 July 2011.

- **Link Bridge Piling**

Enabling works for the piling outside Neuro commenced during the last week in August 2011. A process to stop works in this area has been agreed between the Neuro users, Project Team and BM. Any stoppages requested by the Project Team will be recorded.

5.2 External Works

- **Drainage**

Jenny's Burn – 95% complete with final tie-in at Linthouse outstanding.

Drainage north of A&C 70% complete with all lines in that are below the MTHW installation.

Drainage west of A&C due to start next week as revised layout now issued with drainage co-ordinated with link bridge piling.

Drainage south of A&C now underway – 5% complete.

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Labs 750mm drainage 90% complete – temp SUDS tie-in outstanding along with haul road cross-over. Temp. SUDS details imminent from WSP.

- Roads

Boulevard at Govan road – road formation 35% complete – first quadrant has been tarred to top of base course and is now being used as site haul road with the tar being lifted from old haul road to allow the levels to the second quadrant to be raised.

Retaining wall around phone mast ongoing with 2 base pours and 2 wall pours complete and the final base pour area now blinded.

- Services

Water –

Scottish water have installed the upgrade along Hardgate road and onto site. We (MER) have installed the incoming main from Hardgate road and the 63mm lab supply line along the More Than boundary. We await the first water meter from SW, due imminently, connection fee has been paid.

Power –

33kv sub fit out continues – SPEN predicting power on 22/09. This is behind programme but does not cause concern provided it slips no further, as BM have a back up supply in place for the labs.

The “A” leg of 11kv cable is pulled through the labs, the damaged cables (insulation) have been sheath repaired. Labs back up supply is ready to go live to the transformers.

Gas -

Gas connection fee paid, connection date to be confirmed by Scottish Gas Networks. This item is considered a risk until BM have a definitive connection date from SGN. Availability of energy centre governor room to allow gas to feed labs is on programme.

Surgical substation – Client has issued a programme showing completion of substation relocation by end of September 2011. Construction of concrete bases commenced at beginning of August 2011.

MTHW/CHW water – On programme but final design detail needs to be agreed. First pre-RDD MTHW workshop held with Board during w/c 19th September 2011.

IT/Data – ducts going in on programme.

Earthing – A&C lightning protection started and ongoing.

Overall external works on programme.

6. PROJECT SUPERVISOR

6.1 New Laboratory Facility

Visits to the site during August indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employers Requirements with due regard to health and safety.

Capita continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with their site inspections. Throughout, the standard of workmanship is generally good and operations are being carried out in an acceptable manner.

While structural elements to the Laboratories and FM Hub have been substantially completed concreting to the ground floor slab has been ongoing in the open courtyard area. No response has been received as yet to the NCR raised by Brookfield in relation to mesh reinforcement suspected of being placed with incorrect concrete cover.

Capita received the Certificates of Waterproofing Integrity for the flat roof areas. Brookfield are currently sourcing and collating outstanding information. Capita await an Acoustic Testing Programme from Brookfield following their submission of their Laboratory Building Performance Test Proposals which refers to the number of rooms to be tested in accordance with BREEAM criteria.

Acoustic tests were carried out to two rooms on Level 1 to identify if there were any flanking between offices. The other test was between toilets where the IPS panels are back to back and there isn't a partition above the suspended ceiling. Capita are still awaiting the results of these tests.

Feathering/skimming to Fermacell walls is being carried out to ensure that the partitions are within tolerances. Following the permanent power being connected Capita inspected the walls in Areas 1 and 2 on Level 1. The unevenness of the Fermacell walls has been improved and the finish is generally to a reasonable standard.

Visits to the site during the period indicated that the M&E elements of construction inspected are progressing well on site with some areas nearing completion. Generally the standard is of a high quality notwithstanding the items raised through Supervisor's Communications highlighted in their monthly report.

Capita undertook a number of witnessing of system tests during August. Electrical Power is now on within certain areas, and testing is progressing through the building. Mechanical system tests were ongoing and Capita witnessed a number of tests on refrigeration pipes and systems in August.

Capita issued a defect notification in June relating to the fitting of fire dampers with fusible links and not motorised fire dampers as per SHTM 81. It is understood that there are discussions underway as to the relevant mandatory document applicable to this section of the works. Capita await clarification on this issue. There are a number of corridors where the smoke detectors have not been fitted in accordance with BS 5839 Pt 2004. Detectors should be fitted within the top 10% of the void or 125mm from the soffit and due to restricted space this has not occurred at some locations.

Supervisor s Communication General Matters / Other Instructions (CI 13.1) No 52 to 73 were issued.

Supervisor s Notification of Defects No 11 was issued during August in relation to the position of smoke detectors as mentioned above. There are still five defects issued in June awaiting a response.

Capita continue to have discussions with Brookfield and are being assisted by the site teams in resolving various construction, mechanical, electrical, and quality issues which have been raised following our visits.

6.2 New Adult and Children's Hospitals

Visits to the site during August indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employers Requirements with due regard to health and safety.

Capita continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with our site inspections.

Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

Capita continue to have ad hoc meetings and discussions with the appropriate Brookfield and subcontractor personnel. Information regarding drawings, quality issues and other technical matters has been supplied when requested generally via Aconex.

Energy Centre works during the period has included concreting to the ground floor plinths. Other concreting works are substantially completed.

Skanska/Cementation have again progressed steadily on piling during the period with 7 rigs on site, but most of the NCRs which had been raised in July remain outstanding, with responses awaited from the subcontractor.

Concrete cube results to date appear satisfactory as do pile test initial results. Slipforming to Core G in Zone E commenced during the period and has progressed significantly, reaching level 12 by the end of the month. Quality of the concrete appears satisfactory. Foundation works at Core F started during the period and again quality appears to be satisfactory. Excavations have also been ongoing at Core C with particular attention being given to slope stability due to depth of the hole, ground conditions and water ingress. Significant progress has been made on the various pile caps in the south east corner of the site and are all to a satisfactory quality standard.

Drainage works to Jennys Burn experienced some quality issues with regard to pipework. The offending sections have been replaced and these works substantially completed together with car park reinstatement.

The western half of the dual carriageway road access to Renfrew Road has been completed to the underside of wearing course level. Formation and drainage elements of the eastern section have commenced. All these works appear generally to be progressing in accordance with the Clients requirements and with due regard to quality.

7.1 Budget v Cost Plan – TP/MP

Adult and Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on Target Price.

There has been 28 Nr Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties.

Contract Award Target Price	£575,111,382.00
Compensation Event Notices Issued – formally closed out	-£150,155.00
Compensation Event Notices Issued – awaiting close out	0
Current Estimated Contract Target Price	£574,961,227.00

7.2 Value Engineering/Opportunities

A Joint Value Engineering/Opportunities Register is maintained and reviewed regularly to capture and agree detailed solutions to achieve the Board output requirements in a different manner that will provide the appropriate quality with a reduced defined cost. The schedule is reviewed at monthly Commercial Group meetings. No major VE items implemented since the last Report.

7.3 Defined Cost Audits

Sample audits are undertaken as part of the Payment Assessment Process. All information requested is provided timeously. Issues are dealt with on an ongoing basis and closed out. A further joint visit to Mercury Engineering Head Office has taken place since last Report, There were also audit visit undertaken by BMCL to Dunne Group and Skanska.

7.4 Early Warning Notices

A summary of all Early Warning Notifications (EWNs), Project Managers Instructions (PMIs) and Compensation Event Notices (CENs) activity as at 21st September 2011 is detailed below:

- Brookfield Multiplex have issued 109 EWNs to the Board, 95 have been closed out and 14 are currently open.
- The Board have issued 36 EWNs to Brookfield Multiplex, 31 have been closed out and 5 are currently open.
- The Board have issued 108 PMIs to Brookfield Multiplex, 92 have been actioned and closed and 16 are currently open.
- 28 CENs have been concluded.

Weekly meetings to review EWNs, PMIs and CENs are ongoing.

Full details of all EWNs, PMIs and CEs can be found in the EW Tracker, available from the Board on request.

7.5 Cashflow

The cashflow for 2011/2012 is not to exceed £125,000,000 ex VAT based on the April 2011 submitted cashflows, with a target of around £122,000,000 to suit current board funding availability. Proposals to advance purchase up steel reinforcement at a preferential rate up to 31st December 2011 were presented

and accepted. Other materials for advance purchase which will presented to the Board Team for discussion/approval at appropriate period.

7.6 Monthly Payments

Assessment Nr 20 was processed and issued on 20th August 2011 as follows:

PSCP	Stage 1	£	57,543,183.00
	Stage 2	£	17,831,637.00
	Stage 3	£	36,356,110.00
	Stage 3A	£	
	PSCP Work Done to Date	£	111,730,930.00
	Deduct retention free amount	£	0.00
	Sub total	£	111,730,930.00
	Retention	£	-2,877,159.00
	Sub total	£	108,853,771.00
	Deduct previous payments	£	99,511,310.00
	Sub total	£	9,342,461.00
Add VAT %	20.00%	on £ 9342461	£ 1,868,492.20
	Amount due	£	11,210,953.20

8. COMMISSIONING

8.1 New Adult and Children's Hospitals

Nothing to report.

8.2 New Laboratory Project

8.2.1 Redesign, Transition and Commissioning Group

- Service Migration Plan - Now approved by ASR Group
- Service Continuity Plan - Approved
- Equipment Gap Analysis - Sent to Procurement on 14 September 2011 for costing

8.2.2 Transport and Traceability

- Traceability system for tracking specimens (pathology and Microbiology in the first instance) - being sourced
- Transport requirements Specification document almost complete

8.2.3 IT

An HI&T IT installation and commissioning plan is due to be developed by 30 September 2011

8.2.3 HR

Staff Transition Process due to finish 30 September 2011

Transfer of City Mortuary staff (TUPE transfer) due to be completed by end October 2011

8.2.4 Equipment (MSC)

The Board have signed off the contract for the Managed Service Contract

Installation and commissioning plan for MSC equipment to new build to be done by 30 September 2011

9. ENABLING WORKS**9.1 Scottish Water Land**

Legal work substantially complete, Orange Telecoms require to sign side document to missives to complete land transaction. Missives expected to be concluded by end of September 2011.

Discussion between NHS and BMCL ongoing to determine optimal solution to provide the boundary fencing.

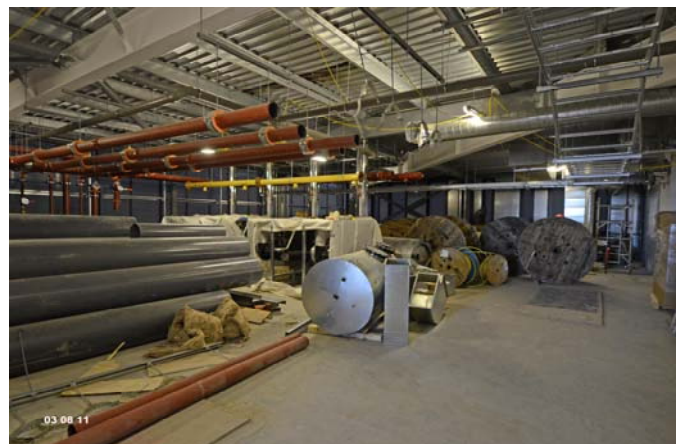
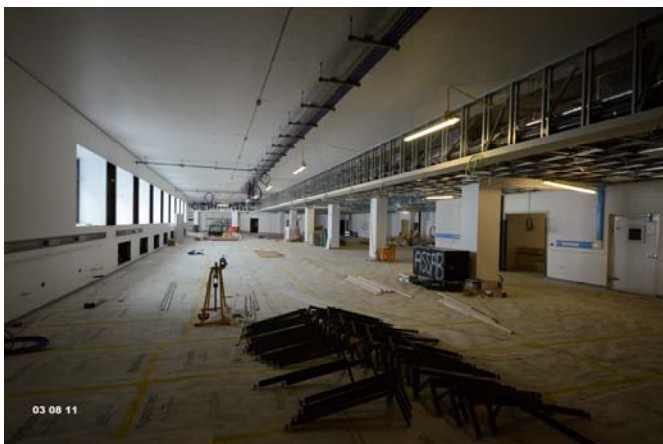
9.2 Surgical Sub-station Relocation

The works to conclude the surgical sub-station relocation are on course to complete by Monday 26th September 2011.

9.3 Water and Fire Main Diversion (Boulevard Road)

The investigation and proving works are underway. A new temporary supply will be installed to the Biochemistry building. The isolation of the water and fire mains discovered in the area for the Boulevard Road will be complete by 14th October 2011.





New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield MULTIPLEX

Monthly Progress Report

May 2012





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6 Project Supervisor

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9 Enabling Works

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Appendix A - Site Photographs

Appendix B - 6 Week look ahead programme Stage 3

1. EXECUTIVE SUMMARY

1.1 Introduction

The Joint NHS /Brookfield Multiplex Project Team are continuing to work on a range of tasks to ensure that the Project remains on programme i.e.

- Management of Risk and Change
- Cost control and management of NEC3 processes (EW/PMI/CE) for stages 1, 2 and 3
- Close out of defects/snags on Stage 1 works (Labs & FM Building)
- Stage 3 Enabling Works
- Design and Construction of Stage 3 – Adult and Children's Hospitals and Energy Centre

The notes below summarises some of the key points from the detailed reports that are included in the following sections:

1.2 Health and Safety

No RIDDOR or serious injuries to during the month of April 2012.

8 minor injuries reported on site during the month of April 2012.

1.3 Programme and Progress

The following programmes have been uploaded to Sypro and are attached as appendices to this report:

- Stage 3 Adult & Children's Hospital Construction Programme 6 week look-ahead programme

1.4 Design Development - Adult and Children's Hospitals

In the period to 4 May 2012, good progress has been made in the design of layouts and systems for the two hospitals with the following highlights:

The detailed design is developing as per programme, and the initial design of services for almost all zones in both hospitals have been completed (with the tower and the front end of the NCH to follow). These services include; mechanical; electrical; sprinklers; pneumatic tube; floor coverings; door and door privacy; blinds; glazed screens; acoustics; RPA (radiation protection); and work is commencing on reflected ceiling plans for all areas.

Detailed work on the interior design has also commenced with a view to this being signed off by the end of the summer.

Specifications for tenders for pendants and ultra clean canopies have been developed with users, and these will be issued to the market in due course following final review.

Work has commenced on identifying the larger pieces of equipment for transfer to the new hospitals, and the specifications for equipment in specialist areas, for example aseptic and audiometry, is about to start. User input will be critical to this process.

1.5 Construction and Logistics

a) Laboratory Project

The fault rectification process continues and the NHS, Capita and BMCL are working together to close out defects. Further proving tests on the six blood fridge and freezer rooms are underway.

b) Adult and Children's Hospitals

The construction of the Adult and Children's Hospitals remain on programme. The issue regarding out of tolerance piles is being remediated and BMCL continue to be in dialogue with the Insurance Loss Adjustor.

c) Other General Matters

Work is now underway to develop design drawings suitable for submission for planning consent for Car Park 1 by week commencing 8th June 2012.

The construction of the Energy Centre remains on programme to complete in two phases to accord with the wider construction programme.

1.6 Project Supervisor

- **New Laboratory Facility**

Capita continue to record and issue Supervisor's Notification of Defects and to date 159 have been issued. Brookfield have been attending to these issues and they are being closed out.

- **New Adult and Children's Hospitals**

Visits to the site during April 2012 indicated that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements.

Capita continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with their site inspections.

Throughout, Capita advise that the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

During April Capita undertook site inspections of both the Acute and Children's Hospital and the Energy Centre. Capita continue their meetings and dialogue with Brookfield in connection with their site issues. Information regarding drawings, quality issues and other technical matters has been supplied when requested generally via Aconex.

1.7 Commercial

Target price remains within agreement.

Compensation events which have been concluded are estimated at -£944,702.97

Weekly meetings to review Early Warnings, Project Manager Instructions and Compensation Events are ongoing.

2 HEALTH, SAFETY AND ENVIRONMENT

Safety Summary (As at 29 April 2012)

	Total Number			Comment and Details
	To Date	Previous	This Month	
First Aid:				Energy Centre = 0 injuries Labs = 1 injury 1 cut to finger A&C = 7 injuries. 2 to foot, 2 foreign bodies in eyes, 1 strain to shoulder, 1 cut to hand and 1 break to finger.
- Treatments	149	10	8	
- Referrals	0	0	0	
Days Lost due to Injuries:				
- Brookfield Construction UK Ltd	2	0	0	
- Subcontractor	9	0	0	
Number of men on site (going through turnstile)		713	560	
Total number on site (including office, welfare and visitors)		829	679	
OH & S Plans / WMS:				
- Received	839	62	39	
- Reviewed	740	62	39	
- Approved	601	49	9	
Work cover:				
- Inspector visits	3	0	0	
- Fines / Directions	0	0	0	

Incidents:				Labs:
- Public	0	0	0	0 NCR issued
- Site	14	2	2	0 Yellow cards issued
				Energy Centre: 0 NCR issued
				1 yellow card issued to Miller Roofing Scaffolder for incomplete scaffold.
				3 red cards issued – 2 Lesterose scaffolder for several unsafe scaffolds
				2 red cards issued to Miller roofing scaffolders for unsafe scaffold
				A&C: 0 NCR issued
				8 Yellow cards issued.
				1 = Dunne / Slipform scaffolder for building a scaffold without base plates.
				3 = HTC operatives for not following company procedure
				3 Operatives not using tool tethers or erecting exclusion zones.
				1 = Dunne Supervisor for not carrying out an instruction from BMCE site manager.
				2 High Potential Near miss incidents:
				1 material fall from height – Tie frame fell 50m from hoist roof at Core A.
				1 Power Tower Nano SP failed to stop rising. Issued stop work notice on all Nano SO MEWPs until full investigation complete.
Accident Frequency Rate (AFR) Cumulative	0.07	0.07	0	Company Target 0.10
12 Month Rolling AFR	0.00	0.00	0	Project Target (2011) 0.32.
Summary of any measures undertaken to improve Site Safety last month:	1) Continuing with safety quiz at inductions. 2) Introduced a method statement training course. 3) Run blue best supervisor training for contractor's supervisors. 4) Introduced a site observation register to log trends and act accordingly.			
Work activities programmed to take place next month that require additional safety measures	1) Continue to work on Jump / Slip form – Working at height, lifting operations & dismantling of slip form. 2) Lifting operations Energy Centre and Phase 3 – Lifting operations, logistics & co-ordination. 3) Fit out of 1 st & 2 nd floor slab area phase 3. 4) Tarring of haul roads.			

3. PROGRAMME AND PROGRESS

3.1 Summary Status of the works - A&C Hospitals and Energy Centre

Stage 3 Start Date	28 March 2011 Week 67
Stage 3 Contract Completion Date	28 February 2015 Week 271
Stage 3 Contract Duration	Week 271 -66 = 205 weeks
Report Date	To 29 April 2012 Week 123
Elapsed contract period at 29 April 2012	(Week 123 -66) = 57 weeks (28%)
Period Remaining	(Week 271 -123) = 148 Weeks

Phase	+/- In period	Comments
Stage 3 Adults & Children's Hospital Construction	0	Maintaining progress this period.
Stage 3 Energy Centre Construction	0	Programme position based on Side A progress.

3.2 Progress Summary Statement

There are no matters likely to affect the completion date at this time.

3.3 Weather Record

NEC weather records for March and April have been received, no 1 in 10 year impact to report.

4.1 1:50 Drawing Review/RDS Sign-off/Strategy Reviews and RDD

In the period to 4 May 2012, good progress has been made in the design of layouts and systems for the two hospitals with the following highlights:

The detailed design is developing as per programme, and the initial design of services for almost all zones in both hospitals have been completed (with the tower and the front end of the NCH to follow). These services include; mechanical; electrical; sprinklers; pneumatic tube; floor coverings; door and door privacy; blinds; glazed screens; acoustics; RPA (radiation protection); and work is commencing on reflected ceiling plans for all areas. A programme of strategy reviews has been agreed through 2012

Detailed work on the interior design has also commenced with a view to this being signed off by the end of the summer.

Specifications for tenders for pendants and ultra clean canopies have been developed with users, and these will be issued to the market in due course following final review.

Work has commenced on identifying the larger pieces of equipment for transfer to the new hospitals, and the specifications for equipment in specialist areas, for example aseptic and audiometry, is about to start. User input will be critical to this process.

BMCL have raised concern regarding the late returns of RDS and a report on these late returns has been provided by the Board to BMCL.

The RDD schedule continues to be issued by BMCL.

LABS samples that are to be transferred to A&C are being identified for the NHS to counter sign.

The NHS Team continue to review options for the blinds/blinds mechanism as provided by BMCL with a further meeting scheduled for late May 2012. The NHS Team have advised BMCL of the requirements for blinds within the hospitals and have subsequently provided marked up plans to BMCL in order to assist BMCL with their cost plan for blinds.

4.2 Building Control - Warrants and Approvals Update

Building Control have confirmed that statutory consultation with Fire service was sent on the 20/04/12 and are anticipating their formal response by 1st June 2012.

The revised warrant application schedule has now been agreed with BCO and the provision of three further warrants are imminent (stages 9,10,11)

Building Warrant No	Content	Zones	Issued to BCO	Approval by BCO
1	Substructure	Energy Centre	A.20.09.10	Granted 10.10.10
2	Fire Strategy	Energy Centre	A.10.10.10	Granted 10.01.11
3	Below Slab Drainage	Energy Centre	A.13.12.10	Granted 08.06.11
4	Superstructure – concrete and steelwork	Energy Centre	A.04.04.11	Granted 08.06.11
5	Building Envelope, Internal Fitout, Mechanical Ventilation, Fire Alarms etc	Energy Centre	A.17.05.11, Response made to requested queries 17.11.11	
6	Site Services Diversions, Drainage, SUDS	Site wide	A.12.10.10	Granted 25.07.11
7	Substructure	Adults & Children's, all zones	A.14.02.11	Granted 08.06.11

8	Fire Strategy	Adults & Children's, all zones	A.25.02.11 All subsequent technical queries responded to.	
9	Cores A,B,C,D,E,F &G	Split in to 2 batches – Initially , EF&G issued	A.14.06.11 Responses made to requested queries 21.12.11	
10	Concrete Superstructure, up to level 3	Zone G	A.02.12.11	BCO Letter dated 09.12.11 c/w 2 queries
11	Concrete Superstructure, up to level 3	Zone D	A.16.12.11	BCO Acknowledged receipt 10.01.12
12	Podium Superstructure ZH		Issued – awaiting comments from GCC	
20	Building Envelope, Roof, air tightness, fire stopping etc	Adults & Children's, all zones	Final responses issued 03/04/12 to BCO	
21	Below Slab Drainage	All zones	A.09.12.11	Larger scale plans i.e. one for each zone issued 27.01.12 at request of BCO.
22	Above ground drainage	Childrens	17/02/12. BCO feedback rec'd and consultants responses issued	
23	Above ground drainage	Adults (Part)	14/03/12 BCO feedback rec'd and responses issued	
24	Internal Fit Out	Levels 0,1,2 and 4 (Adults Part)	Issued – awaiting comments from GCC	
25	Mechanical Ventilation	Zone G, D	17/02/12 Comments awaited	

4.3 Planning Conditions

Documentation has been prepared for next tranche of conditions and a meeting with the Board has been arranged prior to submission of the documentation.

A summary of the Planning Consents and Discharge of Conditions status is shown below:

No.	Title	Approval Date	No. of Conditions	Discharged	Submitted to GCC	Outstanding	Code
1	Outline Planning Consent 07/01158/DC	30 Jul 2009	43	Total - 33 (76%) 1 Finalised Masterplan 2 Site Design, appearance etc 3 Supporting Document for Masterplan 4 Art Works Framework 5 Tree Survey & Arboricultural Report 6 Biodiversity Action Plan 7 Sustainability Statements 8 Tree Protection Method 9 Top soil retention 14 Helipad Noise Assessment 15 Approach to Noise Control 16 Refuse Provision 18 Mitigation Strategy for impacts on Local Community 20 Ground Contamination Assessment 21 Public Transport Hub 23 Taxi Rank Proposals 24 Compliance with GCC Roads Standards 25 Govan to Hardgate Spine Rd 26 Pedestrian and cycle routes 27 Car Park Management Plan 28 Cycle Parking Provision 29 Green Travel Plan 30 Junction Upgrade Plans 31 Carparking Provision	Total - 0 (0%)	Total - 10 (23%) 10 Mitigation of light pollution 11 Mitigation of noise pollution 12 Ventilation and air conditioning 13 Noise and vibration mitigation 17 Disposal of cooking odours 19 Construction noise restrictions 22 Internal Shuttle Bus 40 Japanese Knotweed 41 Breeding birds 42 Nesting birds	M M M M PCU M NHS NHS M M
				32 Mitigation of noise impacts on residents and building occupiers. 33 Construction workers parking and transport 34 Building size restriction for Glasgow Airport 35 Future Wind Turbine Proposals 36 Bird Hazard Management Plan 37 SUDS Scheme 38 Landscape Framework and Management Plan 39 Surface Water Disposal 43 Mitigation of impacts on Bats			
2	MSC No. 1 Masterplan consent 10/00945/DC	25 Jun 2010	6	Total 3 (50%) 3 Full Site Waste Management Strategy 4 SUDS Discharge Details 6 Wind Turbine Design and noise and visual assessments	Total 0	Total 3 (50%) 1 Consented drawings 2 Scope of consent 5 Carpark No. 3	M M NHS
3	MSC No. 2 Consent 10/01779/DC	19 Oct 2010	19	Total 8 (42%) 4 Partial (26%) 1 Approved drawings 2 Finalised Dev. Programme 3 External materials (A&C) 4 Sample Panels 5 Spandrel panels colours 7 Energy Centre materials 8 Public Realm materials 9 Paving pattern (Partial-Labs) 10 Detailed drawings (partial - Window reveal) 11 Road Junctions 15 Street furniture (Partial-Labs) 16 Lighting fixtures (partial-Labs)	Total 0 (0%)	Total - 11 (58%) 6 1:20 Sections & Elevations A&C 9 Setting out patterns paving 10 Detailed drawings (5 no.) 12 Campus Ped & Cycle Networks 13 Main Entrance Bird Hazard measures 14 Wind mitigation measures 15 Street furniture 16 Lighting fixtures 17 Signage 18 Shelters and cycle racks 19 Landscape works	WIP WIP WIP NHS WIP WIP WIP WIP WIP WIP M
				18 Cycle racks (partial-Labs)			
4	MSC No. 3 Application 10/02171/DC (Nos. 15, 20, 32, 37, 39)	21 Jan 1011	7	Total - 2 (28%) 5 Submission of gas protection system for A&C hospitals 7 Requirement for post demolition site investigations for remaining buildings to be demolished (2015)	Total - 0	Total - 5 (72%) 1 List of approved drawings 2 Reporting of observed ground contamination issues 3 Validation testing of infill material 4 Submission of quarterly groundwater monitoring results 6 Submission of benzo(a)pyrene hotspot excavation validation testing.	M WIP WIP WIP WIP
7	Renfrew Road Access Consent (10/01780/DC)	06 Sep 2010	2	Total - 1 2 (partial for junctions)		Total - 2 1 Consented drawings 2 Discharge of other conditions prior to implementation.	M GCC

- Ground conditions

No further adverse contamination findings had been identified to date and a final report on the PAH analysis is awaited from WSP.

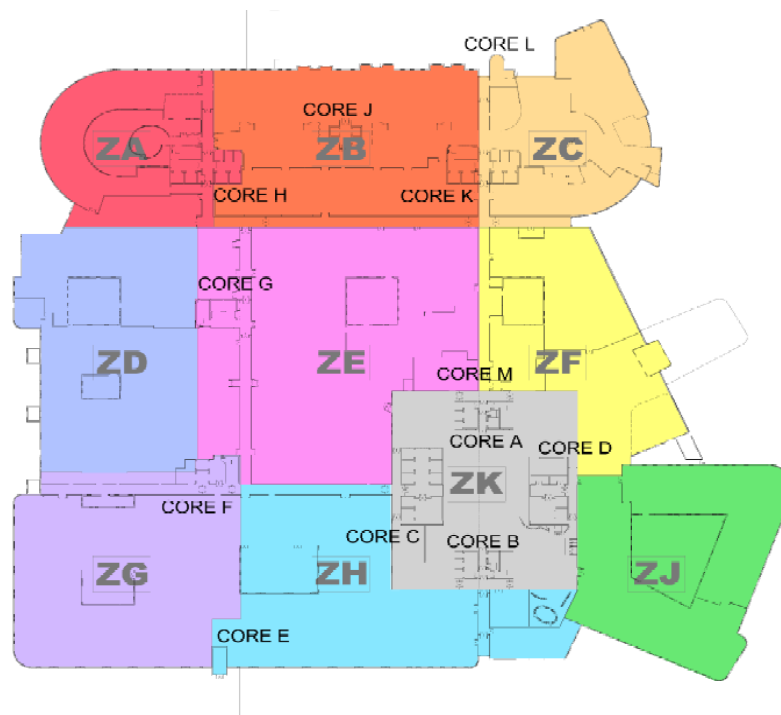
5 Construction and Logistics

5.1 Labs Commissioning

a) Blood Fridges

Further proving tests on the six blood fridge and freezer rooms are underway as there was an anomaly in the previous analysis results. This testing involves the monitoring of temperatures in both empty and loaded state. The results from these tests will be documented to align with MHRA requirements.

5.2 Stage 3 Works (As at 29 April 2012)



Zoning Plan and Core References

a) Piling

BMCL continue to install the mini-pile remedial solution. The programme for the mini-pile works is under continual review to ensure that there is no impact to other works taking place on the site and where necessary works are being re-sequenced. To date, the mini-piling works continue not to cause any delays to the construction programme and the remedial works are on target to complete by end of July 2012.

b) Foundations

Basement Floor slab Main Basement slab 80% with Zone K 50% completed.

Zone F pile caps are progressing and will follow completion of the retaining wall in Zone K

Zone B Pile caps are progressing in the South end

Zone J Pile Caps are well underway and working towards Zone K (Columns have been erected in the North of the Zone.

Core L Pile cap has been concreted.

Retaining walls are completed in Zone E and progressing into Zone F and substantially completed in Zone B and will continue when Core K is slipform has been stripped.

c) Under Slab Drainage / Ground Floor Slab

Drainage is substantially completed in Zone G with the 1st slab pour due W/C 14 May 2012

Zone D under-slab drainage has started with a programme to complete early August with phased Slab pours starting

d) Basement Tunnel (E-W)

Slabs are 100% with Walls 65% completed, Capping Slabs will commence W/C 7 May 2012.

e) Slip Core

Core A,B,C, D, E F,G, H J are completed.
 Core K will be completed for W/C 14 May 2012
 Core L set up will be installed W/C 14 May 2012 Completed for Mid June.
 Precast stairs continue to be installed to Core G up to level 14.
 B Level 1 has been poured Stairs have been installed to level 1
 D Level 2 has been poured (No Stairs)
 C Lobbies to level 8
 H Stairs installed to level 1.

f) Main Concrete Frame

Zone D and G - 100% completed
 Zone E level 1 - 4 pours out of 7 completed
 Zone H Level 1 - Substantially completed, Level 2 first pour of 5 completed.
 Zone A and Zone J - ground floor columns are being cast / erected.

g) Fit Out / Mechanical Installation

Zone G/D Level 1 - Head Track and advanced partition walls have been installed, including risers and electrical cupboards. M&E installation is progressing well with high level services being installed and services installed to allow 2nd side sheeting of the advanced walls to commence. General partitions due to commence 28/05/12 to Zone G.
 Zone G/D Level 2 – Advanced head track and wall has started with services modules commencing W/C 14 May 2012.
 The plant room high level fit out has started with the concrete soffit sealer substantially completed.

h) External Walling/Cladding

SFS Walling and Boarding have been installed to the east elevation, Zone G, on levels 1 and 2 with temporary protection for the windows being installed with this. Windows are due on site Mid July with render following behind
 Courtyard 4 Boarding has started & 5 Scaffolding to commence W/C 14 March 2012.
 Courtyard 2 and 3 SFS is completed. With Boarding completed on 3 and started on 2
 Level 2 south elevation steelwork will commence W/C 14 March 2012 prior to louvers.

i) Roofing Works

Hot Melt works have started between 4/5 Level 2
 Main Podium will commence W/C 14 March 2012

5.3 External Works

Services along the East Road are substantially completed Tar Macadam to follow.
 North Road services are progressing to programme
 Temporary Suds to the Central Park is completed including the temporary capping slab.
 Concrete paving works progressing to the Energy centre west elevation.

North Boulevard East footpath construction has progressed. BM are programming the start of children's temporary SUDS in the site office car par and the Bio-chemistry Block Demolition.

5.4 Energy Centre

Works are ongoing and working towards completion of the A side Electrical.
 The Generators and flues have been delivered and installed.
 Fuel oil pipe work, flue, and containment installations are ongoing.
 The current phase of secondary steelwork to the North elevation is complete
 A-side blockwork will be complete mid May for cladding to commence.
 Internal doors are substantially complete with other fit out operations to commence at the end of May

5.5 IDMS (Snagging) Update

BMCL are preparing the IDMS (uploading data) for the A&C Building. Schedules have been transmitted to QA Software (IDMS). This is in preparation for use initially for the above ceiling services.

5.6 ZUTEC (O&M Manual) Update

The A&C and Energy Centre Buildings have been added to the Zutec system. Piling Information has been uploaded to Zutec and there is a plan in place to ensure that information on Zutec is updated on a regular basis.

5.7 Car Park 1

The commission to prepare a RIBA Stage D design, submit a MSC planning application and prepare Employers Requirements documentation for the Car Park 1 was put out to three design companies for competitive tender on the 12th April 2012. Three offers were received by noon 19th April 2012, and after a VFM assessment, the winning company Hypostyle Architects were notified and appointed on 25th April 2012.

Work is now underway to develop design drawings suitable for submission for planning purpose by week commencing 8th June 2012.

6. PROJECT SUPERVISOR

6.1 New Laboratory Facility

Capita continue to monitor the completion of the defects as listed in the three lists issued at completion of the Labs Facility. A total of 159 defects have been raised to date and there are currently 3 defects to be concluded. BMCL are continuing to address any issues as they arise.

6.2 New Adult and Children's Hospitals

Visits to the site during April 2012 indicated that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements.

Capita continue to monitor the construction drawings and specifications for compliance with the Contract Documentation in conjunction with their site inspections.

Throughout, Capita advise that the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

During April Capita undertook site inspections of both the Acute and Children's Hospital and the Energy Centre. Capita continue their meetings and dialogue with Brookfield in connection with their site issues. Information regarding drawings, quality issues and other technical matters has been supplied when requested generally via Aconex.

Capita have raised 10 Project Supervisor Observations since the start of the A&C Project. Capita are continuing to work with BMCL to close observations out and currently there are only 3 observations remaining as open i.e. Confirmation of Building Warrants being obtained, compliance of energy centre pop ups, and draining down after pressure tests.

With regards to the Building Warrants observation, BMCL have confirmed that there is a definitive list agreed with Building Control and a number of the warrants are Granted however due to the changes in the GCC numbering BMCL continue to await the formal documentation.

Capita have raised 2 defects of which there is 1 defect currently open and a response to this defect (piling) is awaited from BMCL.

7. COMMERCIAL

7.1 Budget v Cost Plan – TP/MP

Adult and Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on Target Price.

There has been 35 Nr Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties.

Contract Award Target Price	£575,111,382.00
Compensation Event Notices Issued – formally closed out	-£944,702.97
Compensation Event Notices Issued – awaiting close out	-
Current Estimated Contract Target Price	574,166,679.03

7.2 Value Engineering/Opportunities

A Joint Value Engineering/Opportunities Register is maintained and reviewed regularly to capture and agree detailed solutions to achieve the Board output requirements in a different manner that will provide the appropriate quality with a reduced defined cost. No major VE items implemented since the last Report.

7.3 Defined Cost Audits

Sample audits are undertaken as part of the Payment Assessment Process. All information requested is provided timeously. Issues are dealt with on an ongoing basis and closed out. Key disallowable costs at Assessment Nr 28 are:

- Mercury Engineering supplier/sub-contractor 'on-hold' invoices
- Dunne Group monthly accruals considered excessive
- Brookfield costs not in accordance with Schedule of Cost Components

The BMCL Audit Report for Mercury Engineering, Dunne Group and Skanska are awaited by the NHS Team.

7.3.1 Piling

The Commercial Group continue to receive regular updates regarding the A&C Hospitals piling works. Discussions between BMCL and their Insurers are ongoing with BMCL seeking confirmation regarding the level of deductible. The final independent surveyor report (Robert Bird) was expected to be received by w/c 21st May 2012.

7.4 Early Warning Notices

A summary of all Early Warning Notifications (EWNs), Project Managers Instructions (PMIs) and Compensation Event Notices (CENs) activity as at 21st May 2012 is detailed below:

- Brookfield Multiplex have issued 123 EWNs to the Board, 115 have been closed out and 8 are currently open.
- The Board have issued 40 EWNs to Brookfield Multiplex, 37 have been closed out and 3 are currently open.
- The Board have issued 163 PMIs to Brookfield Multiplex, 152 have been actioned and closed and 11 are currently open.
- 35 CENs have been concluded.

Weekly meetings to review EWNs, PMIs and CENs are ongoing.

Full details of all EWNs, PMIs and CEs can be found in the EW Tracker, available from the Board on request.

7.5 Cashflow

The cashflow for 2012/13 is currently forecast at £184,000,000 ex VAT. This represents a significant increase from 2011/12 and requires regular monitoring and update to manage risk to Board of slippage / betterment.

7.6 Monthly Payments

Assessment Nr 28 was processed and issued on 18th May 2012 as follows:

PSCP	Stage 1	£	72,552,083.00
	Stage 2	£	17,842,011.00
	Stage 3	£	101,880,965.00
	Stage 3A	£	
	PSCP Work Done to Date	£	193,275,059.00
	Deduct retention free amount	£	0.00
	Sub total	£	193,275,059.00
	Retention	£	-1,838,802.00
	Sub total	£	191,436,257.00
	Deduct previous payments	£	183,446,315.00
	Sub total	£	7,989,942.00
Add VAT %	20.00%	on £ 7989942	£ 1,597,988.40
	Amount due	£	9,587,930.40

8. COMMISSIONING

8.1 New Adult and Children's Hospitals

Nothing to report.

8.2 New Laboratory Project

All moves to date have taken place as per the Migration Plan. To summarise by end of April 2012 the following services have moved;

- UK NEQAS – Victoria Hospital
- Molecular Genetics – Yorkhill
- Paediatric Virology and Molecular – Yorkhill
- Mycology – Yorkhill
- Molecular Haematology - Yorkhill

Moves taking place in May are;

- Mortuary and PM services (SGH and Yorkhill)
- Pathology all departments (with phased run up to going live over month)

Departments moving late May early June are

- Biochemistry
- Haematology

8.2.1 Equipment (MSC)

Works to install the new and transfer MSC Equipment is ongoing. The transfer equipment is being installed in line with the migration plan.

9. ENABLING WORKS

9.1 Scottish Water Land

Legal transaction has been completed and Boulevard works are 80% complete. Property Transaction audit by PWC currently underway

9.2 Biochemistry Block Demolition

The main supply gas main is being exposed in preparation for capping.

The water main is being prepared for isolation.

The sewer/surface water mains is being prepared for isolation.

The heating supply pipework is being prepared for decommissioning.

The asbestos survey is programmed to start week commencing 11th June 2012

All salvageable fixture and fittings items i.e. labs shelving /AC units are being assessed for re-use in existing estate or future enabling projects (pharmacy relocation etc.)

9.3 Education Centre Site Clearance

The Service Migration programme is being advised by the Mental Health Directorate/ Capital Planning
Discussions are underway with Mental Health practitioners to enable early access to assess the extent of asbestos removal required before demolition.



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	Date of Issue: 30/04/2012 Print Date: 03/05/2012 Drawn By: A BEB Page 1 of 4	Programme No.: BM-GS3-WK-0052 Rev.: Rev. Date: 30/04/2012		

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	<p>Date of Issue: 03/05/2012 Print Date: 08/05/2012 Drawn By: OA Page 1 of 4</p>	<p>Programme No.: BM-GS3EC-CN02-002 Rev.: Rev. Date: 03/05/2012</p>		

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New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde
and
Brookfield MULTIPLEX

Monthly Progress Report

July 2012



Contents

1 Executive Summary

2 Health Safety and Environment

3 Programme and Progress

4 Design Development

5 Construction and Logistics

6 Project Supervisor

7 Commercial

8 Commissioning

9 Enabling Works

10 Appendices

Appendix A - Site Photographs

Appendix B - 6 Week look ahead programme Stage 3

1. EXECUTIVE SUMMARY

1.1 Introduction

The Joint NHS /Brookfield Multiplex Project Team are continuing to work on a range of tasks to ensure that the Project remains on programme i.e.

- Management of Risk and Change
- Cost control and management of NEC3 processes (EW/PMI/CE) for Stage 3
- Close out of defects/snags on Stage 1 works (Labs & FM Building)
- Stage 3 Enabling Works
- Design and Construction of Stage 3 – Adult and Children's Hospitals and Energy Centre

The notes below summarises some of the key points from the detailed reports that are included in the following sections:

1.2 Health and Safety

No RIDDOR or serious injuries to during the month of June 2012.

9 minor injuries reported on site during the month of June 2012.

1.3 Programme and Progress

The following programmes have been uploaded to Sypro and are attached as appendices to this report:

- Stage 3 Adult & Children's Hospital Construction Programme 6 week look-ahead programme

1.4 Design Development - Adult and Children's Hospitals

Good progress continues to be made in the detail design of systems for the two hospitals, these are being addressed on a zone by zone basis and include mechanical; electrical; sprinklers; and pneumatic tube. The conclusion of this exercise will be at the end of 2012

1.5 Construction and Logistics

a) Laboratory Project

The fault rectification process continues and the NHS, Capita and BMCL are working together to close out defects.

b) Adult and Children's Hospitals

The construction of the Adult and Children's Hospitals remain on programme. The issue regarding out of tolerance piles remains under review with the installation of remedial mini-piles nearing conclusion. BMCL continue to be in dialogue with their Insurance Loss Adjustor.

c) Other General Matters

The Planning Application for Car Park 1 was submitted to Glasgow City Planning Dept on 13th June 2012. The next milestone for the Board is the submission of a cost for construction of the Car Park from BMCL which is expected 27th July 2012.

The construction of the Energy Centre remains on programme to complete in two phases to accord with the wider construction programme, the 'A' site is planned for handover to the Board on 31/10/2012.

1.6 Project Supervisor

• New Laboratory Facility

Capita have been monitoring the completion of the defects as listed in the three lists issued at completion

• New Adult and Children's Hospitals

Capita indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements. Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner

1.7 Commercial

Target price remains within agreement.

Compensation events which have been concluded are estimated at -£944,702.97

Weekly meetings to review Early Warnings, Project Manager Instructions and Compensation Events are ongoing.

2 HEALTH, SAFETY AND ENVIRONMENT

Safety Summary (As at 30th June 2012)

	Total Number			Comment and Details
	To Date	Previous	This Month	
First Aid:				Energy Centre = 0 injury
- Treatments	168	10	9	A&C = 9 injuries. 1 Finger injury – cut 1 Back – Strain 2 Head – Cuts 1 Wrist – Sprain 2 Hand – Bruise and Burn 1 Abdominal – Strain 1 Eye – Foreign body
- Referrals	0	0	0	
Days Lost due to Injuries:				
- Brookfield Construction UK Ltd	2	0	0	
- Subcontractor	16	0	7	
Number of men on site (going through turnstile)		620	650	
Total number on site (including office, welfare and visitors)		720	854	
OH & S Plans / WMS:				31 - A status 4 - B status 12 - C status
- Received	886	31	47	
- Reviewed	787	31	47	
- Approved	636	20	35	
Work cover:				
- Inspector visits	4	1	0	
- Fines / Directions	0	0	0	
Incidents:				Energy centre & Labs: 0 NCR issued 0 Yellow cards issued
- Public	0	0	0	A&C 0 NCR issued 6 yellow cards issued 1 High Potential Near miss Incidents: 12/6/12 – Boss MEWP shot forward as up button was engaged (software issue).
- Site	16	1	1	
Accident Frequency Rate (AFR) Cumulative	0.09	0.09	0.09	Company Target 0.10
12 Month Rolling AFR	0.04	0.04	0.04	Project Target (2011) 0.32.

Summary of any measures undertaken to improve Site Safety last month:	<ol style="list-style-type: none"> 1) Carried out 30 minute TBT on Fire & Emergency / Drug and alcohol policy (702 attendees over 25 sessions) 2) Crane observation reporting instigated 3) Issued NSGH MEWP policy and procedures to all sub contractors 4) Issued A Head for Health DVD to all contractors for operative communication
Work activities programmed to take place next month that require additional safety measures	<ol style="list-style-type: none"> 1) Lifting operations Energy Centre and Phase 3 – Lifting operations, logistics & co-ordination. 2) Installation of overhead gantry at Energy Centre / Labs to carry pneumatic tubes. 3) Temporary suds installation in NHS/BM offices car park 4) Fit out of 1st, 2nd & 3rd floor slab area phase 3. 5) Resin floors at Energy Centre 6) JD Pierce Atrium

3. PROGRAMME AND PROGRESS

3.1 Summary Status of the works - A&C Hospitals and Energy Centre

Stage 3 Start Date	28 March 2011 Week 67
Stage 3 Contract Completion Date	28 February 2015 Week 271
Stage 3 Contract Duration	Week 271 -66 = 205 weeks
Report Date	To 01 July 2012 Week 132
Elapsed contract period at 01 July 2012	(Week 132 -66) = 66 weeks (32%)
Period Remaining	(Week 271 -132) = 139 Weeks

Phase	+/- In period	Comments
Stage 3 Adults & Childrens Hospital Construction	0	Maintaining progress this period.
Stage 3 Energy Centre Construction	0	On programme against rescheduled programme for 31/10/12 'A' side handover

3.2 Progress Summary Statement

There are no matters likely to affect the completion date at this time.

3.3 Weather Record

NEC weather records for June have been received indicating a 1 in 10 year event and BMCL are currently confirming any impact to works.

4. DESIGN DEVELOPMENT - Stage 3 Adults and Children's, and Energy Centre

4.1 1:50 Drawing Review/RDS Sign-off/Strategy Reviews and RDD

In the period to 10th July 2012, good progress continues to be made in the detail design of systems for the two hospitals, these are being addressed on a zone by zone basis and include mechanical; electrical; sprinklers; and pneumatic tube. The conclusion of this exercise will be at the end of 2012.

The design strategy for the reflective ceiling plans is being reviewed and work is also taking place on the nurse call, interior design and landscaping. Further batches of 1:50 drawings for construction have been issued by Brookfield and these are being examined by our Technical Team.

The RDD schedule continues to be issued by BMCL. BMCL have raised concern regarding the late returns of RDD and a report on these late returns has been provided by the Board to BMCL. The Board and BMCL are continuing to liaise closely to prioritise the return of drawings to ensure no impact to construction activities.

Specifications for tenders - a workshop for users has been arranged at the end of August to discuss and develop the specifications for the surgeons panels

Equipment: A member of the Clinical Physics and Bio-engineering staff has been seconded to the Project Team. Their remit is to provide manufacturers information to Brookfield in line with the construction programme and to support the development of the Equipment Procurement and transfer strategy. As part of this they have commenced a review of current equipment available and will develop a register of equipment fit for transfer to the new hospitals. A robust process is in place for any request for new equipment and this will involve submission of a case to the Chief Operating Officer.

The NHS Team continue to review options for the blinds/blinds mechanism as provided by BMCL. BMCL have agreed to provide a full-size mock up early September 2012 for NHS review. BMCL have also obtained sample blind slat sizes for review by the NHS Team.

4.2 Building Control - Warrants and Approvals Update

Building Control have confirmed that statutory consultation with Fire service was sent on the 20/04/12 and are anticipating their formal response by 1st June 2012.

The revised warrant application schedule has now been agreed with BCO and the provision of three further warrants are imminent (stages 9,10,11)

Building Warrant No	Content	Zones	Issued to BCO	Approval by BCO
1	Substructure	Energy Centre	A.20.09.10	Granted 10.10.10
2	Fire Strategy	Energy Centre	A.10.10.10	Granted 10.01.11
6	Site Services Diversions, Drainage, SUDS	Site wide	A.12.10.10	Granted 25.07.11
3	Below Slab Drainage	Energy Centre	A.13.12.10	Granted 08.06.11
8	Fire Strategy	Adults & Children's, all zones	A.25.02.11 All subsequent technical queries responded to.	View approvals received. Croos doors and ironmongery to be resolved
7	Substructure	Adults & Children's, all zones	A.14.02.11	Granted 08.06.11
4	Superstructure – concrete and steelwork	Energy Centre	A.04.04.11	Granted 08.06.11
5	Building Envelope, Internal Fitout, Mechanical Ventilation, Fire Alarms etc	Energy Centre	A.17.05.11, Response made to requested queries 17.11.11	Granted 04.05.12

20	Building Envelope, Roof, air tightness, fire stopping etc	Adults & Children's, all zones	Final responses issued 03/04/12 to BCO	
9	Cores A,B,C,D,E,F &G	Split in to 2 batches – Initially , EF&G issued	A.14.06.11 Responses made to requested queries 21.12.11	Granted 04.05.12
10	Concrete Superstructure, up to level 3	Zone G	A.02.12.11	Granted 04.05.12
11	Concrete Superstructure, up to level 3	Zone D	A.16.12.11	Granted 04.05.12
21	Below Slab Drainage	All zones	A.09.12.11	Granted 04.05.12
22	Above ground drainage	Childrens	17/02/12. BCO feedback rec'd and consultants responses issued	
23	Above ground drainage	Adults (Part)	14/03/12 BCO feedback rec'd and responses issued	
25	Mechanical Ventilation	Zone G, D	17/02/12 Comments awaited	Exemplar presentation on design philosophy given to GCC BCO 22.05.12
24	Internal Fit Out	Levels 0,1,2 and 4 (Adults Part)	Issued – awaiting comments from GCC	
12	Podium Superstructure ZH		Issued – awaiting comments from GCC	Granted 04.05.12
13	Podium Superstructure ZE		Issued 24.05.12 awaiting comments from GCC	

4.3 Planning Conditions

Documentation is continuing to be prepared for next tranche of conditions.

A summary of the Planning Consents and Discharge of Conditions status is shown below:

No.	Title	Approval Date	No. of Conditions	Discharged	Submitted to GCC	Outstanding	Code
1	Outline Planning Consent 07/01158/DC	30 Jul 2009	43	Total - 33 (76%) 1 Finalised Masterplan 2 Site Design, appearance etc 3 Supporting Document for Masterplan 4 Art Works Framework 5 Tree Survey & Arboricultural Report 6 Biodiversity Action Plan 7 Sustainability Statements 8 Tree Protection Method 9 Top soil retention 14 Hellpad Noise Assessment 15 Approach to Noise Control 16 Refuse Provision 18 Mitigation Strategy for impacts on Local Community 20 Ground Contamination Assessment 21 Public Transport Hub 23 Taxi Rank Proposals 24 Compliance with GCC Roads Standards 25 Govan to Hardgate Spine Rd 26 Pedestrian and cycle routes 27 Car Park Management Plan 28 Cycle Parking Provision 29 Green Travel Plan 30 Junction Upgrade Plans 31 Carparking Provision	Total - 0 (0%)	Total - 10 (23%) 10 Mitigation of light pollution 11 Mitigation of noise pollution 12 Ventilation and air conditioning 13 Noise and vibration mitigation 17 Disposal of cooking odours 19 Construction noise restrictions 22 Internal Shuttle Bus 40 Japanese Knotweed 41 Breeding birds 42 Nesting birds	M M M M PCU M NHS NHS M M
				32 Mitigation of noise impacts on residents and building occupiers. 33 Construction workers parking and transport 34 Building size restriction for Glasgow Airport 35 Future Wind Turbine Proposals 36 Bird Hazard Management Plan 37 SUDS Scheme 38 Landscape Framework and Management Plan 39 Surface Water Disposal 43 Mitigation of impacts on Bats			
2	MSC No. 1 Masterplan consent 10/00945/DC	25 Jun 2010	6	Total 3 (50%) 3 Full Site Waste Management Strategy 4 SUDS Discharge Details 6 Wind Turbine Design and noise and visual assessments	Total 0	Total 3 (50%) 1 Consented drawings 2 Scope of consent 5 Carpark No. 3	M M NHS
3	MSC No. 2 Consent 10/01779/DC	19 Oct 2010	19	Total 8 (42%) 4 Partial (26%) 1 Approved drawings 2 Finalised Dev. Programme 3 External materials (A&C) 4 Sample Panels 5 Spandrel panels colours 7 Energy Centre materials 8 Public Realm materials 9 Paving pattern (Partial-Labs) 10 Detailed drawings (partial - Window reveal) 11 Road Junctions 15 Street furniture (Partial-Labs) 16 Lighting fixtures (partial-Labs)	Total 0 (0%)	Total - 11 (58%) 6 1:20 Sections & Elevations A&C 9 Setting out patterns paving 10 Detailed drawings (5 no.) 12 Campus Ped & Cycle Networks 13 Main Entrance Bird Hazard measures 14 Wind mitigation measures 15 Street furniture 16 Lighting fixtures 17 Signage 18 Shelters and cycle racks 19 Landscape works	WIP WIP WIP NHS WIP WIP WIP WIP WIP WIP M
				18 Cycle racks (partial-Labs)			
4	MSC No. 3 Application 10/02171/DC (Nos. 15, 20, 32, 37, 39)	21 Jan 2011	7	Total - 2 (28%) 5 Submission of gas protection system for A&C hospitals 7 Requirement for post demolition site investigations for remaining buildings to be demolished (2015)	Total - 0	Total - 5 (72%) 1 List of approved drawings 2 Reporting of observed ground contamination issues 3 Validation testing of infill material 4 Submission of quarterly groundwater monitoring results 6 Submission of benzo(a)pyrene hotspot excavation validation testing.	M WIP WIP WIP WIP
7	Renfrew Road Access Consent (10/01780/DC)	06 Sep 2010	2	Total - 1 2 (partial for junctions)		Total - 2 1 Consented drawings 2 Discharge of other conditions prior to implementation.	M GCC

- Ground conditions

No further adverse contamination findings had been identified to date and a final report on the PAH analysis is awaited from WSP. The ground water monitoring timescales were however extended due to the mini-piling activities on site impacting on the dewatering completion.

5 Construction and Logistics

5.1 Labs Commissioning

a) Cooling Levels

BMCL continue to work with the NSGH Technical Liaison Officer to resolve any cooling issues within the new Laboratory Facility as all planned moves for this time have been concluded and the building usage has now stabilised.

b) Laboratory Water Filtration Plant

The NHS raised early concern with BMCL about resiliency for the Water Filtration Plant as should any part of the plant break down then there was currently no way to fill up the water tanks which operated on a 12 hour capacity. Subsequently a fault did occur with the water filtration plant compressor which left the Laboratory Building low on water. BMCL worked closely with the NHS to resolve the issue however the NHS Team have now instructed BMCL to install a further membrane filtration unit for town water to be run and cycled with the existing Memcor unit.

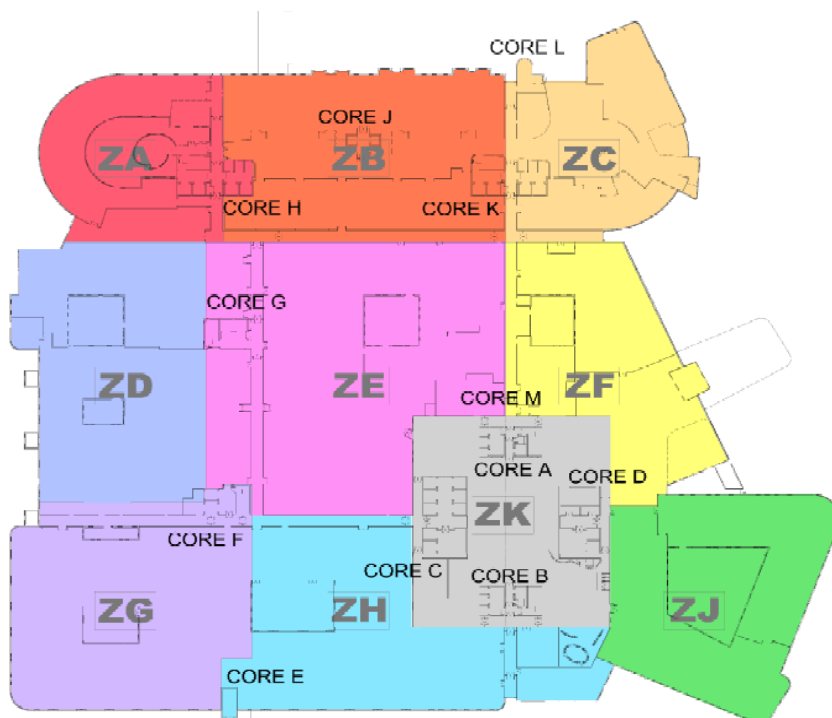
c) Pneumatic Tube

The pneumatic tube link connecting the existing hospital to the new Laboratory Block was tested and commissioned during February 2012. However during run up tests prior to the transfer of Biochemistry in early June it was found that water had entered the system which made it inoperable.

After initial investigation Brookfield decided that the best way forward was to design an aerial route from the west side of theatres across the main haul road to link in with the existing entry point on the east wall of the mortuary and these works were concluded satisfactorily during July 2012.

The Project Team throughout the period February to July 2012 have been monitoring the decommissioning of the old Biochemistry Block to ensure that the continued use of the tube station within this block does not affect the strip out of services and asbestos surveys that are required to be completed prior to handover of the building to Brookfield for demolition on 22nd August 2012.

5.2 Stage 3 Works (As at 1st July 2012)



Zoning Plan and Core References

i) Foundations

Basement Floor slab has been completed
 Zone F pilecaps substantially complete
 Zone B Pile caps are progressing following the mini piles being installed.
 Zone J Pile Caps continue to advance with 80% completed.
 Zone K suspended ground floor slab completed
 Retaining walls are complete except for last sections in Zone C

ii) Under Slab Drainage / Ground Floor Slab

Drainage is completed in Zone G
 7 of 7 GF slab pours have been completed to Zone G
 Zone D under-slab drainage has started and is programmed to complete in August with phased Slab pours starting Mid July.

iii) Basement Tunnel (E-W)

Slabs are 100% with Walls 100% completed,
 Capping Slabs substantially completed (section left off to allow tables to be removed from basement).

iv) Slip Core

All main slips have been completed.
 B Level 6 has been poured Stairs have been installed to the top
 D Level 7 has been poured (No Stairs)
 C capping slab to be completed next reporting period (No Stairs)
 H Level 1 stairs are completed
 A Level 3 completed No stairs installed as yet
 K Stairs have started.
 G Lift capping slabs being installed.
 E Steel stairs have began being installed

v) Fit Out / Mechanical Installation

Zone G/D Level G Internal fit has started.

Zone G/D Level 1 M&E installation continues in line with the fit out programme, Full partition wall construction is now underway with partitions being second side boarded.

Zone G/D Level 2 – M&E installation continues in line with the fit out programme

The plant room high level fit-out continues.

vi) Energy Centre

The external North elevation Cladding is progressing well with louvers complete except those left out for plant deliveries at level 1 and 2. The level 3 plant and equipment is now being procured to allow the delivery through the doors on the roof releasing level 3 for cladding mid July.

Internally M & E containment installation is complete to the A side with distribution boards installed. HV cabling to the A side generators is installed with cleating, dressing, and glanding commenced

Riser modules are due for installation at the end of July

Flue connections are complete to Level 1 A-Side

Manufacture and delivery of Transformers and HV switchboard confirmed for August 2012, this aligns with generator power availability on the 31st October 2012. The programme has been rescheduled to incorporate this and other confirmed delivery dates.

Confirmation has been received from the Board that the temporary generator currently in place to provide standby power can remain in place until 21 September 2012 (approximately 4 weeks later than previously advised).

In light of the above programme and following initial dialogue BMCL will maintain regular communication with the board for update on any potential to extend this date.

5.3 Car Park 1

The table below provides the indicative timetable for the Car Park 1 procurement. As can be seen for the table the next key milestone is the submission of a cost by BMCL.

Issue Design Brief / Tender to 3 Consultants	12 th April 2012
Return Tender	19 th April 2012
Board appoint Design Consultant	25 th April 2012
Board commence design process	28 th April 2012
Submit Planning Masterplan Conditions Application	13 th June 2012
Commence negotiations with builder	15 th June 2012
Develop design and specification with Board and builder	Throughout July 2012
Board conclude Stage D - Employers Requirements & drawings and negotiations with builder subject to any planning issues.	27 th July 2012
Planning Masterplan Conditions Application Approval	29 th August 2012

6. PROJECT SUPERVISOR (As at end of June 2012)

6.1 New Laboratory Facility

Capita have been monitoring the completion of the defects as listed in the three list issued at completion. Brookfield has reported that all the broken glass both reported pre and post completion is now complete. The roof repairs are reported as complete although there are still some minor areas of concrete splatter to be removed. When all the work is complete the Supervisor's Notification of Defects at Completion Ref BMCE-GC-022165 will be complete. The area of slab at the North West corner of the building has been completed, however the mastic work is still to be completed. An inspection will be carried out when all of the defect rectification work is complete. Brookfield continues to attend to defects as they are reported.

6.2 New Adult and Children's Hospitals

Visits to the site during June 2012 indicated that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements. Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

The issue of construction approved drawings has improved and Capita have received a number of communications including Praters drawings, Miller Roofing Drawings and 332 series 1:50 drawings.

Capita witnessed with Brookfield the opening up of 2nd side boarding of partitions at high level on Level 2. This was to determine if insulation has been fitted in accordance with the specification. Of the four areas opened up all but one did not have insulation and this partition was stripped back.

The roof work is progressing on Level 1 Courtyard 3, 4, and Level 2 Courtyard 2-3 in accordance with the drawings and specification.

Energy Centre structural work is largely completed. Various items of plant are still being installed via the north elevation. Structural quality to date appears satisfactory, although some minor snagging still remains outstanding. Minipiling is almost completed with pile installation ongoing at the western side of Zone B.

On the main A&C building concreting has again progressed in several areas. This has included 1st and 2nd floors in Zones E and H suspended ground floors in Zone F, 1st floor at Zone J, ground floor slab at east side of Zone D and foundations in Zone C.

Column installation has also progressed in Zones A and J as well as sub-floor drainage installation in Zone D. Quality throughout has generally been good, although attention will be needed to some slab finishes at ground floor in Zone F and 1st floor Zone J.

Visits to the site during this period were to inspect progress on the Energy Centre and the A&C Hospital.

The M&E installation is now progressing at pace, with pre-fabricated sections being installed in the A&C areas, and large plant items being installed in the energy centre.

In general terms Capita are satisfied that the installations continue being installed to the correct standard, and are of a good quality. Previous concerns regarding open ends being left on the main pipework installations are now being addressed on site.

7. COMMERCIAL

7.1 Budget v Cost Plan – TP/MP

Adult and Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on Target Price.

There has been 43 Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties.

Contract Award Target Price	£575,111,382.00
Compensation Event Notices Issued – formally closed out	-£944,702.97
Compensation Event Notices Issued – awaiting close out	-
Current Estimated Contract Target Price	574,166,679.03

7.2 Value Engineering/Opportunities

A Joint Value Engineering/Opportunities Register is maintained and reviewed regularly to capture and agree detailed solutions to achieve the Board output requirements in a different manner that will provide the appropriate quality with a reduced defined cost. No major VE items implemented since the last Report.

7.3 Defined Cost Audits

Sample audits are undertaken as part of the Payment Assessment Process. All information requested is provided timeously. Issues are dealt with on an ongoing basis and closed out. Key disallowable costs at Assessment Nr 30 are:

- Mercury Engineering supplier/sub-contractor 'on-hold' invoices, costs not in accordance with Schedule of Cost Components
- Dunne Group costs not in accordance with Schedule of Cost Components
- Brookfield costs not in accordance with Schedule of Cost Components

The BMCL Audit Report for Mercury Engineering and Skanska are awaited by the NHS Team.

7.3.1 Piling

The Commercial Group continue to receive regular updates regarding the A&C Hospitals piling works. Discussions between BMCL and their Insurers are ongoing. Various Engineering Reports are available – BMCL Independent Engineer, Insurance Assessor Independent Engineer – and a final Report is awaited from Dunne Sub-contractor. A meeting between all parties will be required to progress common agreement.

7.4 Early Warning Notices

A summary of all Early Warning Notifications (EWNs), Project Managers Instructions (PMIs) and Compensation Event Notices (CENs) activity as at 19th July is detailed below:

- Brookfield Multiplex have issued 124 EWNs to the Board, 119 have been closed out and 5 are currently open.
- The Board have issued 45 EWNs to Brookfield Multiplex, 42 have been closed out and 3 are currently open.
- The Board have issued 178 PMIs to Brookfield Multiplex, 166 have been actioned and closed and 12 are currently open.
- 37 CENs have been concluded and 2 are under discussion to close out.

Weekly meetings to review EWNs, PMIs and CENs are ongoing.

Full details of all EWNs, PMIs and CEs can be found in the EW Tracker, available from the Board on request.

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7.5 Cashflow

The cashflow for 2012/13 is currently forecast at £184,000,000 ex VAT. This is net of piling remedial costs (assumption that remedial costs are reimbursed by Insurers). This represents a significant increase from 2011/12 and requires regular monitoring and update to manage risk to Board of slippage / betterment.

7.6 Monthly Payments

Assessment Nr 30as processed and issued on 17th July 2012 as follows:

PSCP	Stage 1	£	73,990,964.00
	Stage 2	£	17,842,011.00
	Stage 3	£	120,296,287.00
	Stage 3A	£	
	PSCP Work Done to Date	£	212,129,262.00
	Deduct retention free amount	£	0.00
	Sub total	£	212,129,047.00
	Retention	£	-1,849,774.00
	Sub total	£	210,279,488.00
	Deduct previous payments	£	200,441,047.00
	Sub total	£	9,838,441.00
Add VAT %	20.00%	on £ 9839441	£ 1,967,688.20
	Amount due	£	11,806,129.20

8. COMMISSIONING

8.1 New Adult and Children's Hospitals

Nothing to report.

9. ENABLING WORKS

9.1 Scottish Water Land

Land Transaction complete. Audit of transaction has been completed by PWC auditors and they have confirmed the transaction is compliant with NHS Property Handbook Guidance and procedures.

9.2 Biochemistry Block Demolition

Gas main has been isolated and purged.

The water main is being prepared for isolation.

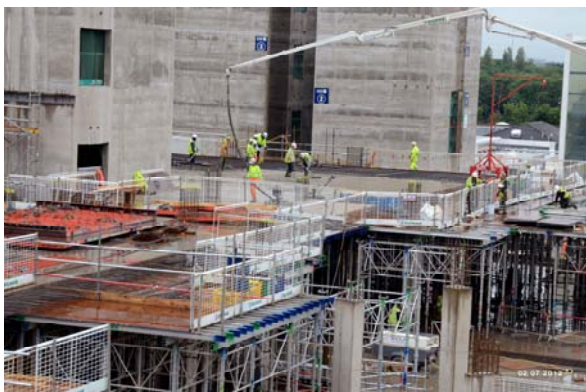
The sewer/surface water mains is being prepared for isolation.

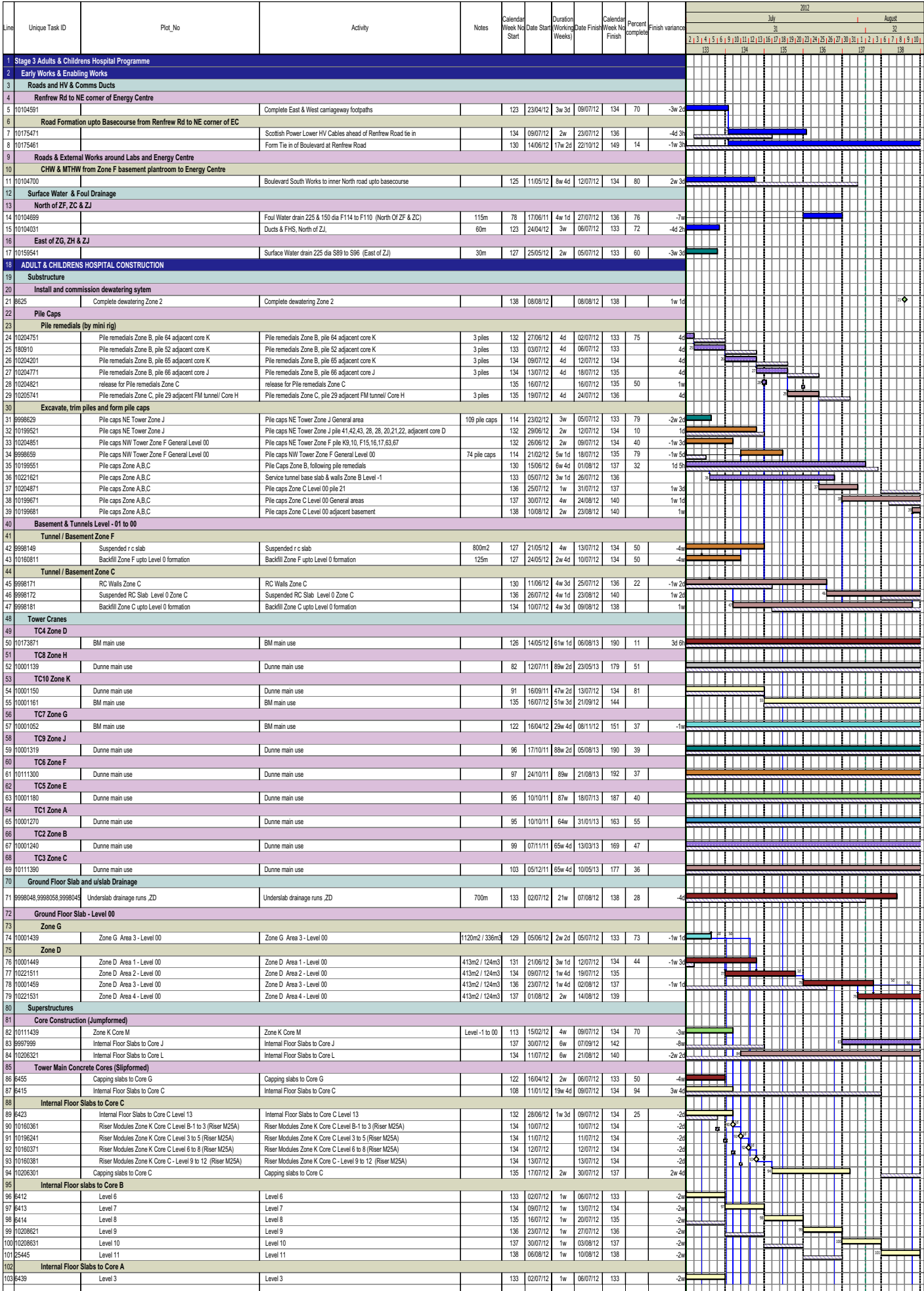
The heating supply pipework has been decommissioned.

The asbestos survey is programmed to start week commencing 30 July 2012

All salvageable fixture and fittings items i.e. labs shelving /AC units have been stripped out and re-used in existing estate or future labs projects.

Hand over to BMCL is scheduled for 22nd August.





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Comments: 6 Week Lookahead - Week 133 to 138

Date of Issue: 02/07/2012 Print Date: 04/07/2012 Drawn By: A BEB Page 1 of 4

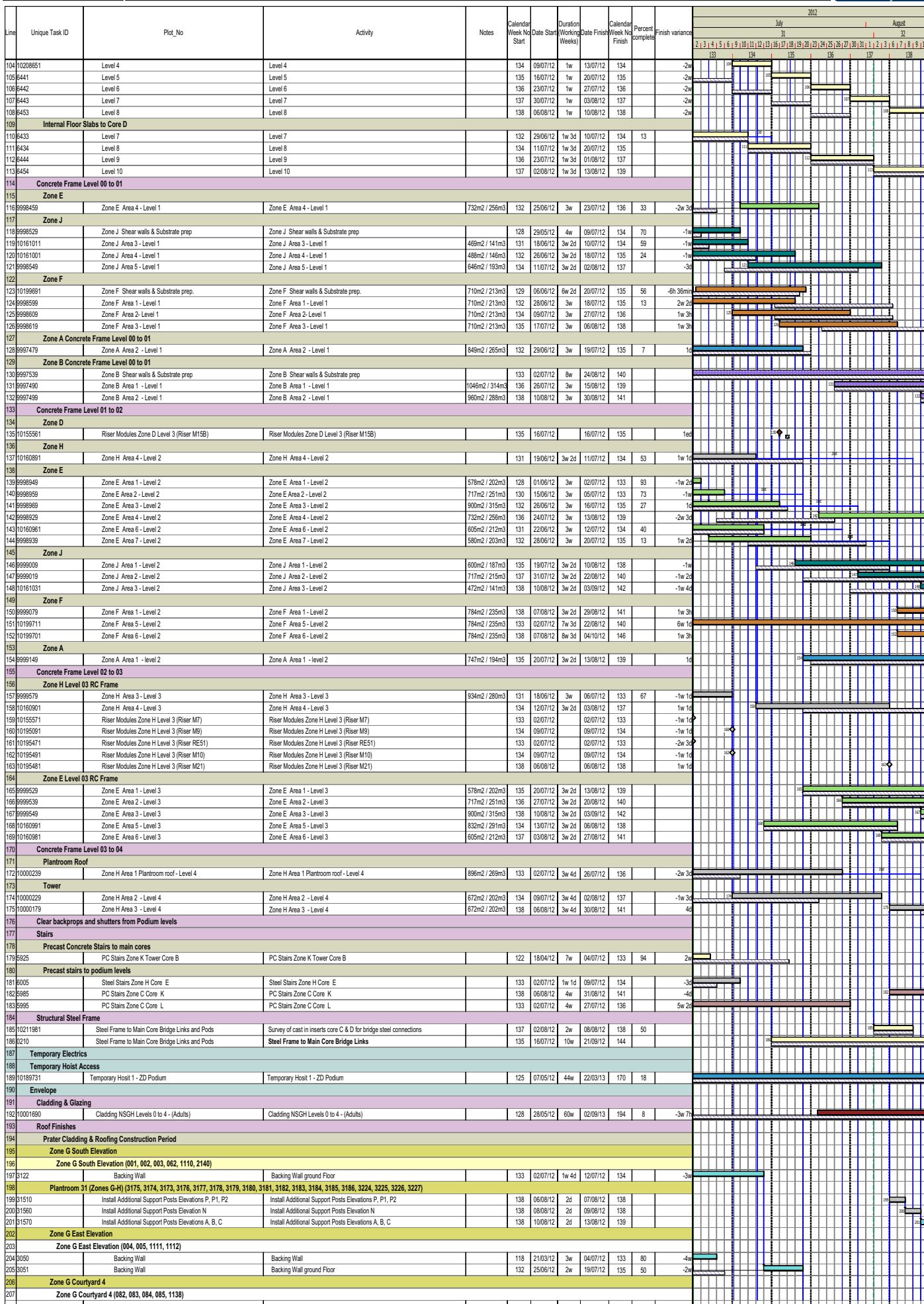
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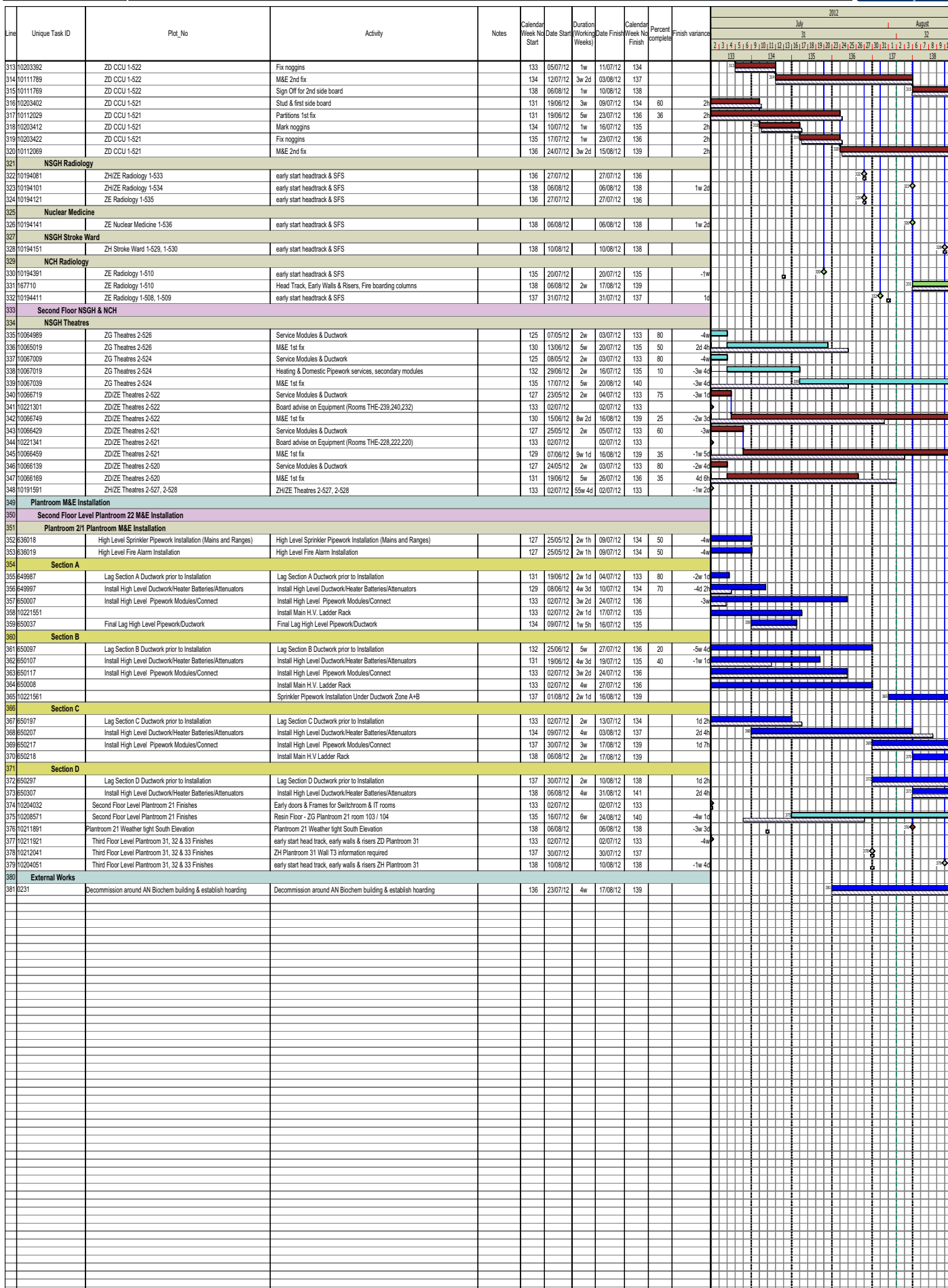
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New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde
and
Brookfield MULTIPLEX

Monthly Progress Report

September 2012



Brookfield
MULTIPLEX



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1 Executive Summary

2 Health Safety and Environment

3 Programme and Progress

4 Design Development

5 Construction and Logistics

6 Project Supervisor

7 Commercial

8 Commissioning

9 Enabling Works

10 Appendices

Appendix A - Site Photographs

Appendix B - 6 Week look ahead programme Stage 3

1. EXECUTIVE SUMMARY

1.1 Introduction

The Joint NHS /Brookfield Multiplex Project Team are continuing to work on a range of tasks to ensure that the Project remains on programme i.e.

- Management of Risk and Change
- Cost control and management of NEC3 processes (EW/PMI/CE) for Stage 3
- Close out of defects/snags on Stage 1 works (Labs & FM Building)
- Stage 3 Enabling Works
- Design and Construction of Stage 3 – Adult and Children's Hospitals and Energy Centre

The notes below summarises some of the key points from the detailed reports that are included in the following sections:

1.2 Health and Safety

1 RIDDOR or serious injury during the month of August 2012 (Back injury)

9 minor injuries reported on site during the month of August 2012.

1.3 Programme and Progress

The following programmes have been uploaded to Sypro and are attached as appendices to this report:

- Stage 3 Adult & Children's Hospital Construction Programme 6 week look-ahead programme

Notes: Full set of programmes are available on Sypro.

1.4 Design Development - Adult and Children's Hospitals

Good progress continues to be made in the detail design of systems for the two hospitals, these are being addressed on a zone by zone basis and include mechanical; electrical; sprinklers. The conclusion of this exercise remains on target to complete at the end of 2012

1.5 Construction and Logistics

a) Laboratory Building

BMCL are working with the NHS Team to resolve the issue re heating and cooling levels resulting from new laboratory equipment.

BMCL are identifying a solution to address the NHS concerns regarding the Labs Water Filtration Plant.

b) Adult and Children's Hospitals

The construction of the Adult and Children's Hospitals remain on programme. The issue regarding out of tolerance piles remains under review, a further 1 pile has been identified as being out of tolerance and the installation of remedial mini-piles are due to be completed by end of September 2012. BMCL continue to be in dialogue with their Insurance Loss Adjustor.

c) Other General Matters

The Planning Consent for Car Park 1 was awarded by Glasgow City Planning Dept on 11th September 2012. The next milestone for the Board is the approval of the Full Business Case by the Scottish Government Capital Investment Group in early October 2012.

The construction of the Energy Centre remains generally on programme to complete in two phases to accord with the wider construction programme, the 'A' site is planned for handover to the Board on 31/10/2012.

1.6 Project Supervisor

- **New Laboratory Facility**

The fault rectification process continues and the NHS, Capita and BMCL are working together to close out the 2 outstanding defects at handover i.e. Sedum Roof and Mortar Splatter.

- **New Adult and Children's Hospitals**

Capita indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements. Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner

1.7 Commercial

Target price remains within agreement.

Compensation events which have been concluded are estimated at -£944,702.97

Weekly meetings to review Early Warnings, Project Manager Instructions and Compensation Events are ongoing.

2 HEALTH, SAFETY AND ENVIRONMENT
Safety Summary (As at 2nd September 2012)

	Total Number			Comment and Details
	To Date	Previous	This Month	
First Aid:				Energy Centre = 0 injury A&C = 9 injuries. 1 Finger injury, 1 foot injury, 2 Arm injuries, 3 Hand injuries, 2 face injuries.
- Treatments	185	9	8	
- Referrals	0	0	0	
Days Lost due to Injuries:				1 RIDDOR Reportable Gate hinge snapped IP fell backwards injuring his back.
- Brookfield Construction UK Ltd	2	0	0	
- Subcontractor	51	15	7	
Number of men on site (going through turnstile)		620	660	
Total number on site (including office, welfare and visitors)		846	880	
OH & S Plans / WMS:				28 - A status 12 - B status 11 - C status
- Received	937	25	51	
- Reviewed	838	25	51	
- Approved	664	16	28	
Work cover:				
- Inspector visits	4	0	0	
- Fines / Directions	0	0	0	
Incidents:				Energy centre & Labs: 0 NCR issued 0 Yellow cards issued A&C 0 NCR issued 3 yellow cards issued. 2 High Potential Near miss Incidents: Mercury telehandler narrowly missed colliding with his banksman. Astins operative narrowly missed being hit by falling bungs to penetrations from floor above. 1 Property damage. (Astins) – Telehandler reversed, hit walkway scaffold pole, which then damaged south elevation hoarding.
- Public	0	0	0	
- Site	16	1	1	
Accident Frequency Rate (AFR) Cumulative	0.11	0.08	0.11	Company Target 0.10
12 Month Rolling AFR	0.07	0.04	0.07	Project Target (2011) 0.32.

Summary of any measures undertaken to improve Site Safety last month:	<ol style="list-style-type: none"> 1) MEWP for managers course 2) Monthly safety focus – Hammer injuries 3) Drug and alcohol test undertaken 13/8 – 0 positive results detected from 10 persons screened. 4) 2nd Drug and Alcohol test undertaken 29/8 - 2 positive lab test results detected out of 10 persons screened. 5) Changed format of monthly EHS meeting to make more informative.
Work activities programmed to take place next month that require additional safety measures	<ol style="list-style-type: none"> 1) Stairpipe installation – Increased vehicle movement, lifting operations, welding. 2) Installation of Atrium Bridge 3) Temporary suds installation in NHS/BM offices car park 4) Demolition of Bi-chemical building 5) Working close to the Blue route.

3. PROGRAMME AND PROGRESS

3.1 Summary Status of the works - A&C Hospitals and Energy Centre

Stage 3 Start Date	28 March 2011 Week 67
Stage 3 Contract Completion Date	28 February 2015 Week 271
Stage 3 Contract Duration	Week 271 -66 = 205 weeks
Report Date	To 02 September 2012 Week 141
Elapsed contract period at 02 September 2012	(Week 141 -66) = 75 weeks (37%)
Period Remaining	(Week 271 -141) = 130 Weeks

Phase	+/- In period	Comments
Stage 3 Adults & Childrens Hospital Construction	0	Maintaining progress this period.
Stage 3 Energy Centre Construction	0	Maintaining progress this period

3.2 Progress Summary Statement

There are no matters likely to affect the completion date at this time.

3.3 Weather Record

NEC weather records for August have been received indicating that there was no 1 in 10 year event.

4.1 1:50 Drawing Review/RDS Sign-off/Strategy Reviews and RDD

In the period to 2nd September 2012, good progress continues to be made in the detail design of systems for the two hospitals, these are being addressed on a zone by zone basis and include mechanical; electrical; sprinklers; and pneumatic tube. The conclusion of this exercise will be at the end of 2012.

The 1:50 drawings for construction continue to be issued by Brookfield and these are being examined by the NHS Technical Team.

The RDD schedule continues to be issued by BMCL. The Board and BMCL are continuing to liaise closely to prioritise the return of drawings to ensure no impact to construction activities.

Specifications for tenders - a workshop with users took place on 20th August 2012 to discuss and develop the specifications for the surgeons panels. The specification information was provided to BMCL for their tender process.

Equipment: The NHS Project Team is concluding the exercise to identify all the imaging equipment that will transfer into the new hospitals. This information will be provided to BMCL on the agreed date of 29th September 2012. The NHS Project Team is continuing to identify the equipment, both new and transfer, that will be required to equip the new hospitals.

The NHS Team have signed off the blind slat and colours and are awaiting the full size mock-up to review/sign-off the blinds mechanism.

4.2 Building Control - Warrants and Approvals Update

Building Warrant No	Content	Zones	Issued to BCO	Approval by BCO
1	Substructure	Energy Centre	A.20.09.10	Granted 10.10.10
2	Fire Strategy	Energy Centre	A.10.10.10	Granted 10.01.11
6	Site Services Diversions, Drainage, SUDS	Site wide	A.12.10.10	Granted 25.07.11
3	Below Slab Drainage	Energy Centre	A.13.12.10	Granted 08.06.11
8	Fire Strategy	Adults & Children's, all zones	A.25.02.11 All subsequent technical queries responded to.	View approvals received. Corridor doors and ironmongery to be resolved
7	Substructure	Adults & Children's, all zones	A.14.02.11	Granted 08.06.11
4	Superstructure – concrete and steelwork	Energy Centre	A.04.04.11	Granted
5	Building Envelope, Internal Fitout, Mechanical Ventilation, Fire Alarms etc	Energy Centre	A.17.05.11, Response made to requested queries 17.11.11	Granted 04.05.12
20	Building Envelope, Roof, air tightness, fire stopping etc	Adults & Children's, all zones	Final responses issued for Podium 31.07.12 to BCO	SUK Tower Elements above Podium cleared 19.06.12, Podium Outstanding. SBEM calculation issued 23.08.12.

9	Cores A,B,C,D,E,F &G	Split in to 2 batches – Initially , EF&G issued	A.14.06.11 Responses made to requested queries 21.12.11	Granted 04.05.12
10	Concrete Superstructure, up to level 3	Zone G	A.02.12.11	Granted 04.05.12
11	Concrete Superstructure, up to level 3	Zone D	A.16.12.11	Granted 04.05.12
21	Below Slab Drainage	All zones	A.09.12.11	Granted 04.05.12
22	Above ground drainage	Children's	17/02/12. BCO feedback rec'd and consultants responses issued	Granted 10.07.12
23	Above ground drainage	Adults (Part)	14/03/12 BCO feedback rec'd and responses issued	Granted 30.07.12
25	Mechanical Ventilation	Zone G, D	17/02/12 Comments awaited	Exemplar presentation on design philosophy given to GCC BCO 22.05.12 Substitute Drawing PL-524-024 issued 24.08.12
24	Internal Fit Out	Levels 0,1,2 and 4 (Adults Part)	Issued – GCC. Queries received 16.08.12, responses being prepared	
12	Podium Superstructure ZH		Issued – awaiting comments from GCC	Granted 04.05.12
13	Superstructure ZE			Granted 08.06.11
14	Superstructure ZA, ZJ	Podium	Issued 24.08.12 awaiting comments from GCC	
15	Superstructure ZB, ZF	Children's/Podium	Issued 24.08.12 awaiting comments from GCC	
16	Superstructure ZC	Children's	Being Prepared for issue	
35	Mechanical Ventilation	ZJ, Plantrooms 32 &33	Being Prepared for issue	
47	ZK Atrium Link Structure	Adults Zone K	Issued complete with SER 17.07.12	Granted 17.07.12

In summary, 23 warrant applications have been made to date and 16 warrants have been granted.

Building Control have also concluded their consultation with the fire service in respect of the alternate compliance matters and have now sent the conditional warrant approvals. These are being reviewed by the consultants to assess any design implication. The final stage 8 Fire safety warrant approval is subject to approval of ironmongery and cross corridor doors. The NHS and BMCL continue to have dialogue with Building Control to agree the ironmongery and number of cross corridor doors however GCC Building Control have confirmed that both of these outstanding issues will be subject to internal view.

4.3 Planning Conditions

- Ground conditions

No further adverse contamination findings had been identified to date and a final report on the PAH analysis is awaited from WSP. As identified previously the ground water monitoring timescales were extended due to the mini-piling activities on site impacting on the dewatering completion.

5. Construction and Logistics

5.1 Labs Commissioning

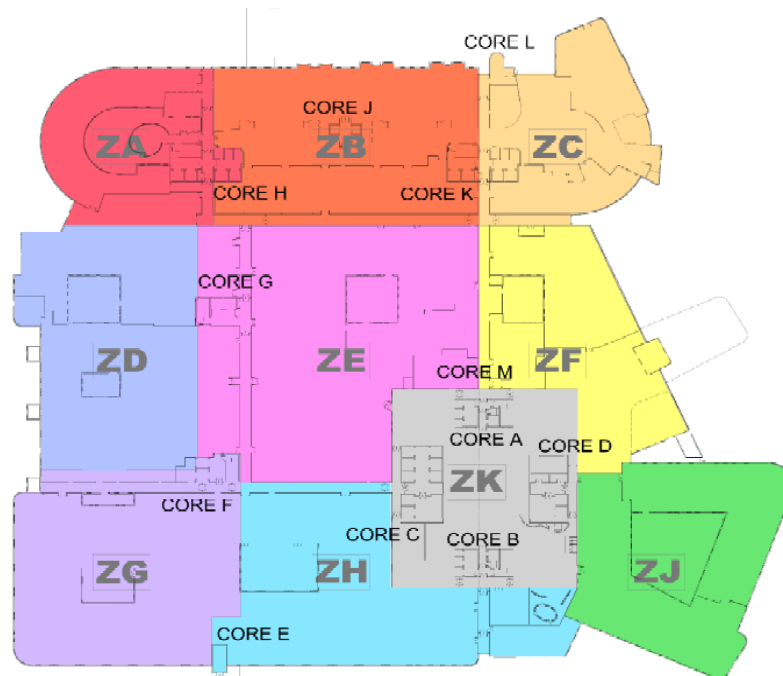
a) Cooling Levels

BMCL continue to work with the NSGH Technical Liaison Officer to resolve any cooling issues within the new Laboratory Facility as all planned moves for this time have been concluded and the building usage has now stabilised.

b) Laboratory Water Filtration Plant

BMCL continue to work with the NHS to address their early concern about resiliency for the Water Filtration Plant as should any part of the plant break down then there was currently no way to fill up the water tanks which operated on a 12 hour capacity. BMCL have received formal confirmation from the NHS to install a further membrane filtration unit for town water to be run and cycled with the existing Memcor unit and BMCL are currently preparing a proposal for NHS review/approval. BMCL are awaiting the formal report into the plant breakdown however have received formal confirmation from Memcor that the compressor was sized correctly.

5.2 Stage 3 Works (As at 2nd September 2012)



Zoning Plan and Core References

i) Foundations

There are a small number of pile caps to be completed in Zone B & C

ii) Under Slab Drainage / Ground Floor Slab

Drainage is complete in Zone G and D

Drainage has commenced in Zone H and E

Zone G slab complete

Zone D slab substantially complete

Zone H and E slabs due to commence in September 2012

iii) Slip Core

D Level 10 has been poured (No Stairs)

C capping slab started (No Stairs)

A Level 5 completed.

J Stair installation has just started.

K Stairs to start end of August.

L Stairs not started

iv) Main Concrete Frame

The current concrete pour schedule is identified in the table below:

Area	Pour 1	Pour 2	Pour 3	Pour 4	Pour 5	Pour 6	Pour 7
ZG	Complete						
ZD	Complete						
ZH LG	○	○	○	○	○	○	N/A
ZH L1	Complete						
ZH L2	Complete						
ZH L3	Complete						
ZH L4	Poured	○	○	○	N/A	N/A	N/A
ZE LG	○	○	○	○	○	N/A	N/A
ZE L1	Complete						
ZE L2	Poured	Poured	○	○	Poured	Poured	Poured
ZE L3	Poured	Poured	○	○	○	○	○
ZF L1	Complete						
ZF L2	○	Poured	○	○	○	N/A	N/A
ZF L3	○	○	○	○	○	N/A	N/A
ZJ L1	Complete						
ZJ L2	Poured	Poured	○	○	○	N/A	N/A
ZJ L3	○	○	○	○	○	N/A	N/A
ZA L1	Complete						
ZA L2	Poured	Poured	○	○	N/A	N/A	N/A
ZA L3	○	○	○	○	N/A	N/A	N/A
ZB L1	○	○	○	○	○	N/A	N/A

v) Adult Atrium Link Bridge

Progressing well with the main frame scheduled to be completed within the 10 week period.

vi) External Walling/Cladding

SFS and Boarding have progressed into court yard 7 on levels 1 and 2

East Elevation and Court Yard Render will commence mid September now that the windows have been installed.

Steel has been installed for the plant room louvers for plant room 21 with Louvers due on site September, the cladding has been completed to allow this to happen.

Windows installation has commenced and will follow the structural wall installation.

vii) Roofing Works

Roofing works are progressing in line with the programme.

viii) Fit Out / Mechanical Installation

Zone G/D Ground Floor Internal fitout continues to follow the ground floor slab pours with early walls and, modules and services being installed.

Zone G/D Level 1 M&E installation continues in line with the fit out programme, Full partition wall construction is now underway. With the exemplar rooms having received the mist coat and floor screeding. IPS carcassing has been installed. Ceilings commence late September.

Zone G/D Level 2 – M&E installation continues in line with the fit out programme

The plant room high level fit out has started with transformer delivery mid September with 1st power on scheduled for Mid to end of October. The floor finish has been installed to most of Zone G to allow the installation of AHU and floor mounted plant.

TC 7 removal planned for Saturday, 29 September 2012.

viii) Energy Centre

The Energy centre works are progressing well against the rescheduled programme and remain on target to achieve generator power availability by the 31 October 2012.

The partial completion/handover strategy and post PC protocols are under review. Details and amendments will be tabled for discussion and agreement with the Board over the next reporting period,

Cladding is complete with the exception of areas left open for Plant access, and some localised coping and flashing work.

Internal fit out works are ongoing to align with the completion strategy including resin flooring works which are approaching completion to the final area at level 0 tank room.

Over the next reporting period BM will be carrying out building works inspections and snagging to handover areas.

HV Switchgear, transformers, secondary containment, and distribution board installations have all been completed for A Side handover. Gland tests and sub mains cabling works and termination currently ongoing and approaching completion. Power on Targeted for w/c 17 September 2012.

Final fix lighting and small power installations are complete to the A-side Level 0 & Level 1 as well as level 2 switch rooms and lobby where required for partial completion.

Electrical Network management System (ENMS) now reviewed and finalised by ZBP (status B) to allow termination of cabling to the section board relays.

Some short duration cabling and equipment works have also been held subject to finalisation of controls strategy and securing the building. The building will be secured during w/c 10 September with CCTV equipment installation and cable termination to follow.

Fuel oil delivery is required by the 24 September 2012 for testing and proving pumps and fuel systems in advance of generator start up from the 1 October 2012.

The A-side commissioning programme for comment is now in place and under review with the Board

B side works continue to progress although some areas are showing slippage that will require rescheduling as part of a review of the as built sequence and lessons learnt from the A-side works.

Key plant delivery dates are being met including the prefabricated Mechanical riser modules, and B1 attenuators and silencers, installation of which are ongoing.

B1 off site generator testing is scheduled for w/c 17 Sept 2012, with delivery and installation planned for w/c 1 October 2012.

x) External Works

Biochemistry Building demolition commenced on 29 August 2012 and is now complete.

MTHW pipe excavation has been completed for the section connecting to the basement Zone F and pipe laying commences w/c 3 October 2012.

Temporary SUDS for Children's Block has been excavated in the staff car park, lining installation and construction of the SUDS following on w/c 3 October 2012.

BM and the Board have been investigating possible routes for the BT and IT cables into the Clock Tower Building (AS) communications room. The best solution needs to be agreed and works commenced to replace the temporary Laboratory cables with the permanent cables into permanent ducts.

Resurveys of 10no. Residential properties have been completed (2no reports awaited) no damaged has been identified. Noise and Vibration monitoring equipment has been installed at the SW site boundary and real time levels monitored. Software adjustments being made to enable graphs to be printed of levels against time.

5.3 Car Park 1

The table below provides the indicative timetable for the Car Park 1 procurement. As can be seen for the table the next key milestones are the approval of the Full Business Case by the Board's Quality & Performance Committee (September 2012) and the Scottish Government Capital Investment Group (October 2012).

Acute Services Strategy Board Meeting to approve recommended Procurement Strategy	8 th March 2012
Quality & Performance Group approve Procurement Strategy	20 th March 2012
Publish VEAT Notice	31 st March 2012
Board commence design process	1 st April 2012
End of 10 day standstill period	13 th April 2012
Board conclude design process	30 th May 2012
Commence negotiations with BMCL	1 st June 2012
Submit Planning Application	1 st June 2012
End of 3 month risk period	13 th July 2012
Conclude Negotiations with BMCL	31 st July 2012
Planning Application Approval	31 st August 2012
Quality & Performance Group Approve Full Business Case	September 2012
Capital Investment Group Approve Full Business Case	October 2012
Issue formal compensation Event Notice to Brookfield Multiplex	November 2012
Construction complete	August 2014

6.1 New Laboratory Facility

On completion of the defect rectification period ending on the 9th August 2012 Capita have issued the Supervisor's Notification of Defects at Completion (CI 43.21). This lists defects which have not been corrected. There are two areas which have not been remedied and these are sedum has died back with some of the roof areas containing predominately grass and weeds and the concrete splashing to the blockwork within the courtyard. Brookfield has confirmed the blockwork will be cleaned on Saturday 1st September.

An inspection was carried out on the defects to the soft and hard landscaping around the Laboratory Building on the 9th August 2012 and most of the issues have been resolved. The remaining issues are to be carried out by Brookfield and a future inspection will be carried out. 46 Defects were issued during August and of these 20 are in progress. Of the 20 in progress 11 are for emergency lighting issues which is being dealt with by Brookfield.

6.2 New Adult and Children's Hospitals

Capita advise that visits to the site during August 2012 indicated that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements.

Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

Brookfield continues to undertake their Quality Assurance systems on site with inspection and checklist documentation available for the ongoing construction activities. Over the period, Capita have closely liaised with Brookfield and witnessed both drainage tests and 85 point check to partitions on Level 1. Capita's witnessing resulted in successful tests.

Work is progressing in the exemplar rooms with floors screeding in progress during this period. The purpose of the exemplar rooms is to set a standard of finish using the contracted work package sub-contractors. The internal finishes workmanship standards are used as a benchmark for all room completions.

The roof work is continuing on Level 1 and 2 in accordance with the drawings and specification.

Cladding is progressing on the south elevation and courtyards 3, 4 & 5.

Energy Centre structural work is largely completed. Various items of plant are still being installed via the north elevation. Structural quality to date appears satisfactory, although some minor snagging still remains outstanding as reported during the last period.

Minipiling has now been completed. Full as built details and all piling records, for both original and mini-piling remain to be provided by Brookfield on Zutec.

Concreting to the main A&C building has again progressed in several areas. This has included 1st and 2nd floors in Zones A, E, J and H, 1st floor in Zone F and ground floor slab sections in Zone D. Quality throughout has generally been good, although the base of some insitu columns in Zone J and some foundation base links in Zone D have not been to the normal high standard. Workmanship to the small 20mm step in 1st floor slabs in Zones J and E continues to be poor and has not been satisfactorily addressed.

Structural steelwork erection to the atrium walkway has continued during the period. As noted in the last report quality wise, the main concern is the damage to the fire protection coating (shop applied) on some sections. Brookfield is aware of this and the damaged areas are receiving intumescent coating.

Sub-slab drainage in Zone D is almost now complete and the problematic sections have been addressed in a practical manner. In the few instances where all straight alignment has not been possible rodding tests with normal rodding equipment has proved satisfactory. Similar retrospective tests in specific sections in Zone G have also proved satisfactory. Witnessing of pressure tests has continued in the period. Visits to the site during this period were to inspect progress on the Energy Centre and the A&C Hospital.

The M&E installation is now progressing at pace, with pre-fabricated sections and second fix being installed in the A&C areas, and large plant items being installed in the energy centre.

In general terms we are satisfied that the installations continue being installed to the correct standard, and are of a good quality however we have noted certain item this month that have raised concern. These have been raised with the Contractor.

Supervisor s Communication General Matters / Other Instructions (CI 13.1) No 29, 30 31 and 32 were issued.

- Seeking confirmation if there are any design plans to introduce additional stiffening to 1500mm high partitions in the critical care unit
- Seeking confirmation when cabling is complete, water pumped out and batteries removed from the Sub Station.
- No timber in some partition lintels
- Advise proposed remedial action link reinforcement from pile caps Zone D

Supervisor s Notification of Defects (CI 42.2) No 07 was issued.

- Misaligned bolts

Capita continue to be assisted by the site teams and the NHS Project Team in resolving various construction, mechanical, electrical, and quality issues. We continue to close out our Supervisor s Notification and Defects when we have received satisfactory responses.

7. COMMERCIAL

7.1 Budget v Cost Plan – TP/MP

Adult and Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on Target Price.

There has been 37 Nr Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties.

Contract Award Target Price	£575,111,382.00
Compensation Event Notices Issued – formally closed out	-£944,702.97
Compensation Event Notices Issued – awaiting close out	-
Current Estimated Contract Target Price	574,166,679.03

7.2 Value Engineering/Opportunities

Value engineering opportunities are reviewed when identified during design development/procurement. Recent initiatives implemented are as follows:

- Change from solid ceiling to lay in grid ceiling in certain areas
- Change of suspended ceiling tile specification.

7.3 Defined Cost Audits

Sample audits are undertaken as part of the Payment Assessment Process. All information requested is provided timeously. Issues are dealt with on an ongoing basis and closed out. Key disallowable costs at Assessment Nr 32 are:

- Mercury Engineering supplier/sub-contractor 'on-hold' invoices, costs not in accordance with Schedule of Cost Components
- Dunne Group costs not in accordance with Schedule of Cost Components
- Brookfield costs not in accordance with Schedule of Cost Components

The BMCL Audit Report for Skanska is awaited by the NHS Team.

7.3.1 Piling

The Commercial Group continue to receive regular updates regarding the A&C Hospitals piling works. Discussions between BMCL and their Insurers are ongoing. Various Engineering Reports are available – BMCL Independent Engineer, Insurance Assessor Independent Engineer. A meeting between all parties will be required to progress common agreement.

7.4 Early Warning Notices

A summary of all Early Warning Notifications (EWNs), Project Managers Instructions (PMIs) and Compensation Event Notices (CENs) activity as at 19th September 2012 is detailed below:

- Brookfield Multiplex have issued 127 EWNs to the Board, 119 have been closed out and 5 are currently open.
- The Board have issued 46 EWNs to Brookfield Multiplex, 44 have been closed out and 2 are currently open.
- The Board have issued 184 PMIs to Brookfield Multiplex, 174 have been actioned and closed and 10 are currently open.
- 37 CENs have been concluded

Weekly meetings to review EWNs, PMIs and CENs are ongoing.

Full details of all EWNs, PMIs and CEs can be found in the EW Tracker, available from the Board on request.

7.5 Cashflow

The cashflow for 2012/13 is currently forecast at £175m excluding VAT but inclusive of piling remedial costs (remedial costs may be reimbursed by Insurers at an approximate value of £2m). This is significantly reduced from previous forecasts.

7.6 Monthly Payments

Assessment Nr 32 was processed and issued on 19th September 2012 as follows:

PSCP	Stage 1	£	73,943,337.00
	Stage 2		17,842,011.00
	Stage 3		145,185,406.00
	Stage 3A		
	PSCP Work Done to Date	£	236,970,754.00
	Deduct retention free amount	£	0.00
	Sub total	£	236,970,754.00
	Retention		-1,848,584.00
	Sub total	£	235,122,170.00
	Deduct previous payments	£	224,421,570.00
	Sub total	£	10,700,600.00
Add VAT %	20.00%	on £ 10700600	£ 2,140,120.00
	Amount due	£	12,840,720.00

8. COMMISSIONING

8.1 New Adult and Children's Hospitals

Nothing to report.

9.1 Scottish Water Land

Land Transaction complete and audit of transaction has subsequently been completed by PWC auditors who have confirmed that the transaction is compliant with NHS Property Handbook Guidance and procedures.

9.2 Biochemistry Block Demolition

The building has been decommissioned and demolished. The site has now been incorporated within Brookfield worksite and installation of the new hospitals heating pipes is presently being undertaken through the site to connect up to the Energy Centre.

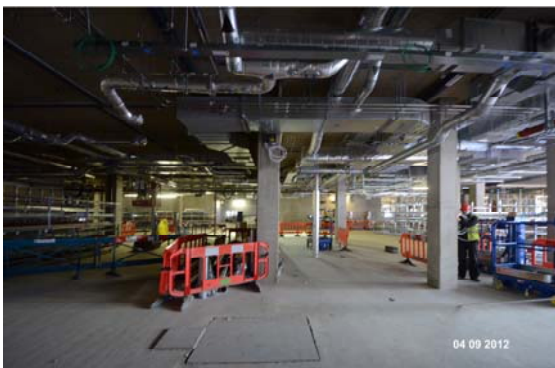
9.3 ICT Network Connection's

BMCL to submit their preferred route to Board for approval. Refurbishment Asbestos survey will need to be undertaken along route prior to start of works.
Costs have been tendered for new pit and duct system installation from MSCP to CMB.

9.4 Mortuary Demolition

Fire alarms/Electrical Supplies have been isolated. Asbestos surveys are underway. A tender document is being prepared for demolition.

10. APPENDICES
Appendix A - Site Photographs



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	Date of Issue: 03/09/2012 Print Date: 05/09/2012	Drawn By: Andrew Bebbington Page 1 of 6	Programme No.: BM-GS3-WK-0064	Rev.:	Rev. Date: 03/09/2012		

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Line	Unique Task ID	Plot_No	Activity	Notes	Calendar Week No Start	Date Start	Duration (Working Weeks)	Date Finish	Calendar Week No Finish	Percent complete	Finish variance	2012																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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File Path: S:\11.0 PLANNING\11.04 Stage 3 Main Hospital Construction\Programmes\Contract\Stage 3 Adult & Childrens Working Programme.pp

New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield MULTIPLEX

Monthly Progress Report

November 2012



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6 Project Supervisor

7 Commercial

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9 Enabling Works

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Appendix A - Site Photographs

Appendix B - 6 Week look ahead programme Stage 3

1. EXECUTIVE SUMMARY

1.1 Introduction

The Joint NHS /Brookfield Multiplex Project Team are continuing to work on a range of tasks to ensure that the Project remains on programme i.e.

- Management of Risk and Change
- Cost control and management of NEC3 processes (EW/PMI/CE) for Stage 3
- Close out of defects/snags on Stage 1 works (Labs & FM Building)
- Stage 3 Enabling Works
- Design and Construction of Stage 3 – Adult and Children's Hospitals and Energy Centre

The notes below summarises some of the key points from the detailed reports that are included in the following sections.

1.2 Health and Safety

No RIDDOR or serious injury during the month of October 2012.

8 minor injuries reported on site during the month of October 2012.

1.3 Programme and Progress

The following programme has been uploaded to Sypro and is attached as an appendix to this report:

- Stage 3 Adult & Children's Hospital Construction Programme 6 week look-ahead programme

Note: Full set of programmes are available on Sypro.

1.4 Design Development - Adult and Children's Hospitals

Good progress continues to be made in the detailed design of systems for the two hospitals. These are being addressed on a zone by zone basis and include mechanical; electrical; sprinklers. The conclusion of this exercise remains on target to complete at the end of 2012.

1.5 Construction and Logistics

a) Laboratory Building

BMCL are working with the NHS Team to resolve the issues re. heating and cooling levels in 3 rooms resulting from new laboratory equipment installed as part of the Abbott Managed Service Contract.

The Labs Water Filtration plant is on order and installation of the plant is anticipated early February 2012.

The works to complete the adaptations to the gulley's within the Mortuary are nearing completion.

b) Adult and Children's Hospitals

The construction of the Adult and Children's Hospitals remains on programme. BMCL continue to be in dialogue with their Insurance Loss Adjustor regarding the claim for out of tolerance piles.

c) Other General Matters

The Planning Consent for Car Park 1 was awarded by Glasgow City Planning Dept on 11th September 2012 and the NHS is working in conjunction with the Architect to secure approval for the amended Car Park design. The Full Business Case for the Car Park was approved by the Scottish Government Capital Investment Group at it's October meeting.

The construction of the Energy Centre remains generally on programme to complete in two phases to accord with the wider construction programme. The 'A' site is planned for handover to the Board on 16th January 2013.

1.6 Project Supervisor

- **New Laboratory Facility**

The fault rectification process continues and the NHS, Capita and BMCL are working together to close out the 2 outstanding defects at handover, i.e. Sedum Roof and Mortar Splatter. (Note: Sedum roof will not be closed out until Summer 2013 at the earliest).

- **New Adult and Children's Hospitals**

Capita indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements. Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

1.7 Commercial

Target price remains within agreement.

Compensation events which have been concluded are estimated at -£944,702.97

Weekly meetings to review Early Warnings, Project Manager Instructions and Compensation Events are ongoing.

2 HEALTH, SAFETY AND ENVIRONMENT

Safety Summary (As at 28th October 2012)

	Total Number			Comment and Details
	To Date	Previous	This Month	
First Aid:				Energy Centre = 0 injury A&C = 8 injuries. 2 Finger injuries, 1 Foot injury, 2 Thumb injuries, 1 Hand injuries, 2 Back injuries,
- Treatments	205	12	8	
- Referrals	0	0	0	
Days Lost due to Injuries:				
- Brookfield Construction UK Ltd	2	0	0	
- Subcontractor	51	0	0	
Number of men on site (going through turnstile)		730	735	
Total number on site (including office, welfare and visitors)		880	908	
OH & S Plans / WMS:				31 - A status 9 - B status 19 - C status
- Received	1073	77	59	
- Reviewed	974	77	59	
- Approved	755	51	40	
Work cover:				
- Inspector visits	4	0	0	
- Fines / Directions	0	0	0	
Incidents:				Energy centre & Labs: 0 NCR issued 0 Yellow cards issued A&C 0 NCR issued 3 yellow cards issued. 1 Property Damage Incident: Astins Telehandler reversed in to and damaged a vehicle without the aid of a banksman. 1 Near Miss Incident: IFT moved an alloy tower which dislodged a section of ventilation ductwork suspended from the slab soffit that fell to the floor slab below.
- Public	0	0	0	
- Site	19	1	2	
Accident Frequency Rate (AFR) Cumulative	0.10	0.10	0.10	Company Target 0.10
12 Month Rolling AFR	0.08	0.09	0.08	Project Target (2011) 0.32

Summary of any measures undertaken to improve Site Safety last month:	<ol style="list-style-type: none"> 1) Supervisor Blue Vest course 2) Mental Health Train the Trainer 3) Monthly safety focus – HAVS
Work activities programmed to take place next month that require additional safety measures	<ol style="list-style-type: none"> 1) Lifting operations. 2) Welding. 3) Mast climbers installations within Atrium – Work at heights, increased vehicle movements. 4) Working close to the Blue route. 5) Giraffe access baskets for cladding to courtyards. 6) Spray painting of basement roof.

3. PROGRAMME AND PROGRESS

3.1 Summary Status of the works - A&C Hospitals and Energy Centre

Stage 3 Start Date	28 March 2011 Week 67
Stage 3 Contract Completion Date	28 February 2015 Week 271
Stage 3 Contract Duration	Week 271- 66 = 205 weeks
Report Date	To 28 October 2012 Week 149
Elapsed contract period at 28 October 2012	(Week 149 -66) = 83 weeks (40%)
Period Remaining	(Week 271 -149) = 122 Weeks

Phase	+/- In period	Comments
Stage 3 Adults & Children's Hospital Construction	0	Maintaining progress this period.
Stage 3 Energy Centre Construction	0	Maintaining progress this period.

3.2 Progress Summary Statement

There are no matters likely to affect the completion date at this time.

3.3 Weather Record

There were no 1 in 10 year weather events for the month of September and October 2012 NEC Weather Records are awaited.

4. DESIGN DEVELOPMENT - Stage 3 Adults and Children's, and Energy Centre

4.1 1:50 Drawing Review/RDS Sign-off/Strategy Reviews and RDD

The NHS Project Team continue to review and return RDD drawings to BMCL. BMCL are continuing to work with the NHS Team to ensure that any late return of drawings has no impact on the construction programme and BMCL will continue on the basis of information available. Should any discrepancies to final NHS sign off be realised post construction this will be subject of separate discussions.

The programme of strategy reviews is ongoing with the most recent additions being DCFP and Fire Evacuation Signage.

The RDD workflow tracker continues to be issued weekly.

New samples are continuing to arrive for the A&C with progressive sign-off – no issues encountered thus far.

Building Services pre-RDD workshops are firmly established and proving most beneficial in the lead-up to RDD Packages, working effectively and efficiently. Most recently, 80Kg zonal designs are now complete and a draft report received for BMCL review. Component reviews with the Board's sustainability consultant are ongoing.

4.2 Building Control – Warrants and Approvals Update

Building Control – Please see below table.

25 warrant applications made to date 18 warrants have been granted.

The final stage 8 Fire safety warrant approval still remains subject to approval of ironmongery and cross corridor doors. The NHS and BMCL teams are working together to resolve any issues.

Building Warrant No	Content	Zones	Issued to BCO	Approval by BCO
1	Substructure	Energy Centre	A.20.09.10	Granted 10.10.10
2	Fire Strategy	Energy Centre	A.10.10.10	Granted 10.01.11
6	Site Services Diversions, Drainage, SUDS	Site wide	A.12.10.10	Granted 25.07.11
3	Below Slab Drainage	Energy Centre	A.13.12.10	Granted 08.06.11
8	Fire Strategy	Adults & Children's, all zones	A.25.02.11 All subsequent technical queries responded to.	View approvals received. Corridor doors and ironmongery to be resolved
7	Substructure	Adults & Children's, all zones	A.14.02.11	Granted 08.06.11
4	Superstructure – concrete and steelwork	Energy Centre	A.04.04.11	Granted
5	Building Envelope, Internal Fitout, Mechanical Ventilation, Fire Alarms etc	Energy Centre	A.17.05.11, Response made to requested queries 17.11.11	Granted 04.05.12

20	Building Envelope, Roof, air tightness, fire stopping etc	Adults & Children's, all zones	Final responses issued for Podium 31.07.12 to BCO	SUK Tower Elements above Podium cleared 19.06.12, Podium Outstanding. SBEM calculation issued 23.08.12. Due to be granted
9	Cores A,B,C,D,E,F &G	Split in to 2 batches – Initially , EF&G issued	A.14.06.11 Responses made to requested queries 21.12.11	Granted 04.05.12
10	Concrete Superstructure, up to level 3	Zone G	A.02.12.11	Granted 04.05.12
11	Concrete Superstructure, up to level 3	Zone D	A.16.12.11	Granted 04.05.12
21	Below Slab Drainage	All zones	A.09.12.11	Granted 04.05.12
22	Above ground drainage	Childrens	17/02/12. BCO feedback rec'd and consultants responses issued	Granted 10.07.12
23	Above ground drainage	Adults (Part)	14/03/12 BCO feedback rec'd and responses issued	Granted 30.07.12
25	Mechanical Ventilation	Zone G, D	17/02/12 Comments awaited	Exemplar presentation on design philosophy given to GCC BCO 22.05.12 Substitute Drawing PL-524-024 issued 24.08.12
24	Internal Fit Out	Levels 0,1,2 and 4 (Adults Part)	Issued – GCC. Queries received 16.08.12, responses being prepared	
12	Podium Superstructure ZH		Issued – awaiting comments from GCC	Granted 04.05.12
13	Superstructure ZE			Granted 08.06.11
14	Superstructure ZA, ZJ	Podium	Issued 24.08.12 awaiting comments from GCC	Due to be granted
15	Superstructure ZB, ZF	Childrens/Podium	Issued 24.08.12 awaiting comments from GCC	Due to be granted
16	Superstructure ZC	Childrens	Being Prepared for issue	Granted 11.10.12
35	Mechanical Ventilation	ZJ, Plantrooms 32 &33	Being Prepared for issue	Issued to BCO
30	Mechanical Ventilation	ZA, B, C		Issued 03.10.12
31	Mechanical Ventilation within Tower	ZK,H,F,J		Issued 03.10.12
47	ZK Atrium Link Structure	Adults Zone K	Issued complete with SER 17.07.12	Granted 17.07.12

4.3 Planning Conditions

Details surrounding isolated areas are being worked on as requested by Glasgow City Council Planners, i.e. Helipad and North Elevation Curtain Walling/Main Entrance

Ground conditions:

The most recent ground contamination report indicates increases during August and October. However the magnitude of the increase is relatively low and the trend is as expected. BMCL will discuss with the NHS Team the extent of further delineation

TRO:

The NHS and BMCL Team has met with Glasgow City Council in respect of TRO and this is progressing. Meetings regarding the section 56 (GCC insistence on road repairs) are to be arranged. Correspondence is ongoing with GCC to refute the possible cost associated with the road resurfacing that GCC are looking to pass on. Road condition surveys undertaken on 2010 are with the Council.

5. Construction and Logistics

5.1 Labs Commissioning

a) Cooling Levels

The NHS Estates Department Reps are continuing to monitor the temperature of a number of rooms within the Labs Facility. The NHS Estates Department have been liaising with BMCL to resolve any set-point issues.

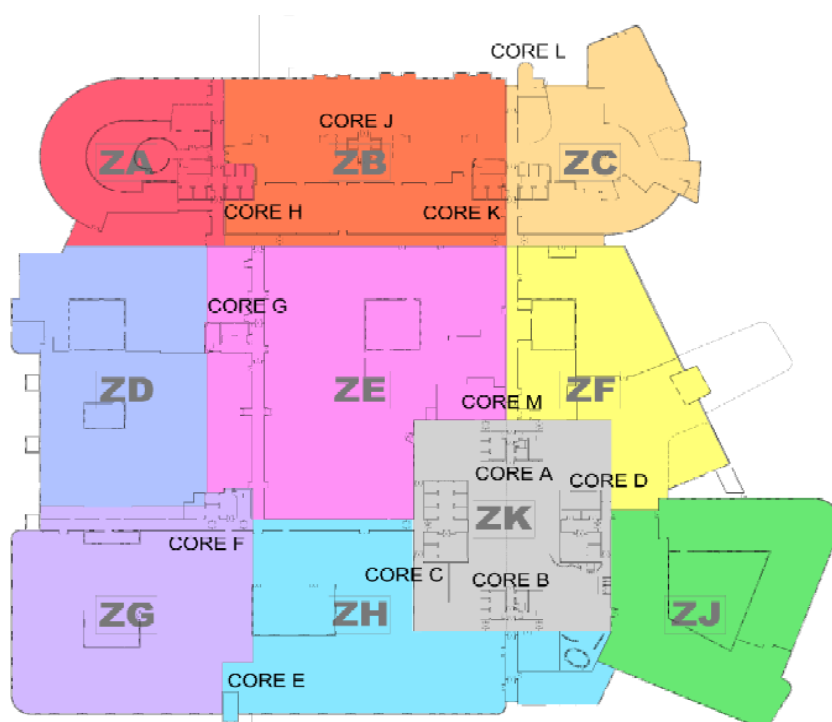
b) Laboratory Water Filtration Plant

The order for the water filtration plant for the Laboratory Facility has been placed. The plant is anticipated to be delivered at the end of January 2013 for installation in February 2013.

c) Mortuary Gulley's

The remediation works to 9 gulley gratings within the Mortuary are underway. The first 6 gulleys have been completed and works to the remaining 3 are underway and are due to be completed by 27th November 2012.

5.2 Stage 3 Works (As at 28th October 2012))



Zoning Plan and Core References

i) Foundations

Pile caps completed

ii) Under Slab Drainage

G	D	H	E	A	J	F	B	K	C
100%	100%	80%	30%	20%	Started	Mid Nov	Not Started	Started	Not Started

iii) Concrete GF Slab

G	D	H	E	A	J	F	B	K	C
100%	100%	65%	20%	0	0	0	0	85%	0
		End November	Early February	7/11/12					

iv) Cores

D Level Capping Slab Completed (No Stairs in this core)

C Completed (No Stairs in this core)

B Level 9 completed

A Level 8 completed.

J Lift lobby slabs will be poured with adjacent zone B floors (No stairs in this core)

K Stairs completed and lift lobby floors commencing early October.

L Stairs not started

H Stairs completed. Capping slab started

E Screed to metal stairs commences 29 October 2012.

v) Main Concrete Frame

- Concrete Pour Schedule

Area	Pour 1	Pour 2	Pour 3	Pour 4	Pour 5	Pour 6	Pour 7
ZG	Complete						
ZD	Complete						
ZH LG	Poured	Poured	Poured	○	○	○	N/A
ZH L1	Complete						
ZH L2	Complete						
ZH L3	Complete						
ZH L4	Complete						
ZH L5	○	Poured	○	○	N/A	N/A	N/A
ZH L6	○	○	○	○		○	
ZE LG	Poured	○	○	○	○		N/A
ZE L1	Complete						
ZE L2	Complete						
ZE L3	Poured	Poured	Part	Poured	Poured	Poured	Poured
ZE L4	Poured	Part	○	○	N/A	N/A	N/A
ZF L1	Complete						
ZF L2	Complete						
ZF L3	Poured	Poured	Poured	○	○	N/A	N/A
ZJ L1	Complete						
ZJ L2	Complete						
ZJ L3	○	○	○	○	○	N/A	N/A
ZA L1	Complete						
ZA L1	Complete						
ZA L3	Complete						

ZA L4	Poured	○	○	○		N/A	N/A
ZB L1	Poured	Poured	Poured	Poured	○	N/A	N/A
ZB L2	Poured	Poured	○	○	○	N/A	N/A
ZB L3	○	○	○	○	○	N/A	N/A
ZC L1	Poured	○	○	○	○	N/A	N/A
ZC L2	○	○	○	○	○	N/A	N/A

vi) **Adult Atrium Link Bridge**

Installation completed with snagging ongoing. Concrete to slabs due to commence mid November from level 12 and work down.

vi) **External Walling/Cladding**

- **Cladding** – South elevation is nearing completion with capping joints and parapet capping now being installed. Loading bay openings will be progressively closed as alternatives are established at Zones F and J.
- **Louvre Vents** – Currently being installed on the south elevation with main louvres starting now that electrical transformers have been installed.
- **Windows** – continue to be installed in zones G & D with south elevation and courtyards 5 and 4 substantially completed.
- **Render** – Render works have commenced in courtyard 5 and insulation to the South and South West Elevations.
- **Podium Curtain walling** – currently being manufactured off site with onsite installation commencing December 2012.

vii) **Roofing** – Hot Melt works are progressing in line with the roofing programme.

viii) **Fit Out / Mechanical Installation**

- Zone G/D Ground Floor internal fit out continues all modules are fitted and risers tied in.
- Zone G/D Level 1 M&E installation continues in line with the fit out programme, Full partition wall construction is now underway.
Ceiling Bulkhead installation and plasterboard margins are now being installed to ZG
IPS units and Sanitary ware are now being installed
Patient hoist has been installed (1st fix) to allow ceilings to start.
1st Coat decoration has started.
Door frames are installed to riser cupboards
Floor Screeding has been completed to ZG/D
- Zone G/D Level 2 –. M&E installation continues in line with the fit out programme. 2nd side partitions are now underway.
Lead Lined Walls currently being installed to the Theatres.
Floor Screeding has started
- Zone E/H level 1 M&E installation has started and continues in line with the fit out programme.
- Zone E/H level 2 M&E installation has started and continues in line with the fit out programme.
- Zone J level 1 Head track has started
- Basement - Decoration is ongoing to the exposed areas.

The main MTHW and Chilled Water pipe runs have commenced and drainage to the kitchen area is in progress.

- The plant room high level fit out continues. Pumps and skids are now on site.
- Modular risers continue to be delivered in advance of the fit out works.

ix) Lifts

Lift installation is ongoing in Core G and Core C. These lifts, 20 and 10, are beneficial use lifts and scheduled to be installed over the next 4 months and will be used as part of the vertical logistics during the construction works.

5.3 External Works

MTHW pipe installation is complete and backfilled and now allowing continuation of the storm drain to the Hub road to be complete (S39-S34).

The children's temporary SUDS has been completed and office car parking re-established.

The Board have completed containment and underground ducting for IT and BT cabling connection to the Clock Tower Communications room by BMCL. Cable installation programmed for November.

Completion of the temporary site east haul road can now proceed following removal of Zone H two storey height support work.

BMCL are in dialogue with utility services to lower cables across the Govan Road entrance to the North Boulevard road.

5.4 Energy Centre

The Board requirement for Energy Centre generator power availability and partial possession has been deferred to the 16th January 2012.

Review of the partial completion handover strategy and post PC protocols are complete. Amendments to the interim fire alarm protocol have been issued and access protocols agreed with the Board.

Internal fit out works are complete to the A-side handover areas and BMCL have completed their building works inspections.

A preliminary Supervisor inspection will be carried out w/c 5th November 2012, with formal inspection deferred to December 2012 to align with the revised partial possession date.

A-Side HV works are complete. A permit to work system is in operation to all HV areas.

Completion of B side generator and attenuator installation, and provision of beneficial lift has given scope to complete the remaining cladding to the North at Level 1

Key plant delivery dates continue to be met with both A and B side chillers delivered w/c 29th October 2012.

Forthcoming key plant dates are: -

- | | | |
|--|---|-------------------------------|
| • Load banks delivery for testing and subsequent removal | - | w/c 12 th Nov 2012 |
| • Dry Air Coolers, Level 3 roof area | - | w/c 19 th Nov 2012 |

- Boilers, Level 2, A and B side - w/c 19th Nov 2012
- Transformers, Level 1, A and B side - w/c 10th Dec 2012

Level 2 B side cladding will be installed from w/c 26th November, although the A-Side will have to remain until after the delivery of the Absorption Chiller in January 2013.

Drainage to the North elevation will commence towards the end of the current reporting period.

5.5 Car Park 1

A Full Business Case for Car Park 1 was submitted to the Scottish Government Capital Investment Group (SGCIG) for consideration at their meeting taking place on 9th October 2012.

Approval to proceed was advised by SGCIG on 22nd October 2012. The NHS Project Team and BMCL are liaising in order to develop a programme for the construction of this car park.

The NHS Team are liaising with Glasgow City Council Planners regarding consent for the revised Car Park proposal.

6. PROJECT SUPERVISOR (As at end of October 2012)

6.1 New Laboratory Facility

From the Supervisors Notification of Defects at Completion (CI 43.21) issued on the 9th August 2012 there are still two defects outstanding. These are: a) sedum died back with some roof areas containing predominately grass and weeds and b) the concrete splashing to the blockwork within the courtyard. Brookfield will confirm when the blockwork is cleaned.

Landscape maintenance was carried out at the end of September, including cutting the meadowgrass on the verge leading to the Laboratories.

14 Defects were issued during October. There are currently 25 in progress and 11 are for emergency lighting issues which is being dealt with by Brookfield.

Capita continue to record and issue Supervisor's Notification of Defects post completion and Brookfield has been attending to these and liaising to the client.

Capita continue to have weekly meetings with Brookfield and the client.

6.1.1 External Work

A small area of reseeding requires to be done on the west elevation. There are still some areas of blockwork to be cleaned satisfactorily. The gate to yard has been cleaned but requires some areas of dirt to be removed/cleaned. The cleaning of blockwork walls and cills on the east elevation has not been cleaned satisfactorily and Brookfield is arranging this area to be revisited.

6.2 New Adult and Children's Hospitals

Capita indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements. Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

Brookfield continue to undertake their Quality Assurance systems on site with inspection and checklist documentation available for the ongoing construction activities. Over the period, Capita have closely liaised with Brookfield and witnessed both drainage tests and 85 point check to partitions on Level 0. Capita's witnessing resulted in successful tests. Capita have also have successfully carried out some witnessing of electrical testing in the Energy Centre. Capita await confirmation of a new test date for the witnessing of fire sprinklers.

The standard of the work in the exemplar rooms during this period is good. Capita shall continue to monitor the work planned for the coming month including door frames, screens, sanitary ware, ceiling trims, radiant panels bulkhead for lighting, wall protection and medical hoist. The internal finishes workmanship standards are used as a benchmark for all room completions.

Capita continue to be assisted by the BMCL site teams and the NHS Project Team who produce an internal weekly report which is of assistance to Capita in resolving various construction, mechanical, electrical, and quality issues. Capita continue to close out the Supervisor's Notifications and Defects once satisfactory responses are received.

7. COMMERCIAL

7.1 Budget V Cost Plan – TP/MP

Adult and Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on Target Price.

There has been 37 Nr Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties.

Contract Award Target Price	£575,111,382.00
Compensation Event Notices Issued - formally closed out	-£944,702.97
Compensation Event Notices Issued - awaiting close out	-
Current Estimated Contract Target Price	574,166,679.03

7.2 Value Engineering/Opportunities

Value engineering opportunities are reducing as the design and procurement progresses through the final stages. Where identified these continue to be reviewed and implemented where appropriate.

7.3 Defined Cost Audits

Sample audits are undertaken as part of the Payment Assessment Process. All information requested continues to be provided timeously. Issues are dealt with on an ongoing basis and closed out. Key disallowable costs at Assessment Nr 34 are:

- Mercury Engineering supplier/sub-contractor costs not in accordance with Schedule of Cost Components
- Brookfield costs not in accordance with Schedule of Cost Components

7.3.1 Piling

Discussions between BMCL and their Insurers are ongoing. Once BMCL have been advised the way forward by their Insurers they will inform the NHS Commercial Reps.

7.4 Early Warning Notices

A summary of all Early Warning Notifications (EWNs), Project Managers Instructions (PMIs) and Compensation Event Notices (CENs) activity as at 20th November 2012 is detailed below:

- Brookfield Multiplex have issued 131 EWNs to the Board, 123 have been closed out and 8 are currently open.
- The Board have issued 46 EWNs to Brookfield Multiplex, 44 have been closed out and 2 are currently open.
- The Board have issued 192 PMIs to Brookfield Multiplex, 183 have been actioned and closed and 9 are currently open.
- 37 CENs have been concluded and 1 is currently open.

Weekly meetings to review EWNs, PMIs and CENs are ongoing.

Full details of all EWNs, PMIs and CEs can be found in the EW Tracker, available from the Board on request.

7.5 Cashflow

The cashflow for 2012/13 is currently forecast at £185m excluding VAT but inclusive of piling remedial costs (remedial costs may be reimbursed by Insurers at an approximate value of £2m).

7.6 Monthly Payments

Assessment Nr 34 was processed and issued on November 2012 as follows:

PSCP	Stage 1	£	74,886,508.00
	Stage 2		17,842,011.00
	Stage 3		168,986,451.00
	Stage 3A		55.00
PSCP Work Done to Date		£	<u>261,715,025.00</u>
	Deduct retention free amount	£	0.00
	Sub total	£	<u>261,715,025.00</u>
	Retention		-1,872,163.00
	Sub total	£	<u>259,842,862.00</u>
	Deduct previous payments	£	<u>247,455,448.00</u>
	Sub total	£	<u>12,387,404.00</u>
Add VAT %	20.00%	on £	£ 2,477,482.80
Amount due		£	<u>14,864,896.80</u>

8. COMMISSIONING

8.1 New Adult and Children's Hospitals

Nothing to report.

9. ENABLING WORKS

9.1 ICT Network Connection's

Pit and duct system and CMB facade ducting has been installed to enable fibre and telecoms twisted pair cabling to be installed to existing Server and Telecoms frame room.

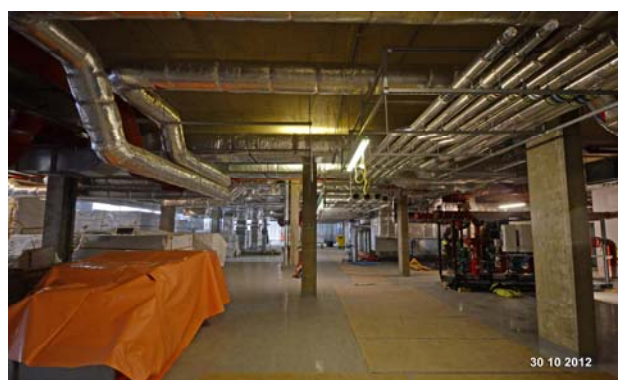
Work is presently underway to install containment in the Multi Storey Car Park. Cable installation is programmed to be completed by end of November 2012. Connection dates are to be agreed with I.T and Telecoms.

9.2 Mortuary Demolition

Asbestos removal works to be undertaken in December 2012.

Tender for demolition works to be issued before Christmas 2012 with demolition to be completed by February 2013.

10. APPENDICES
Appendix A - Site Photographs



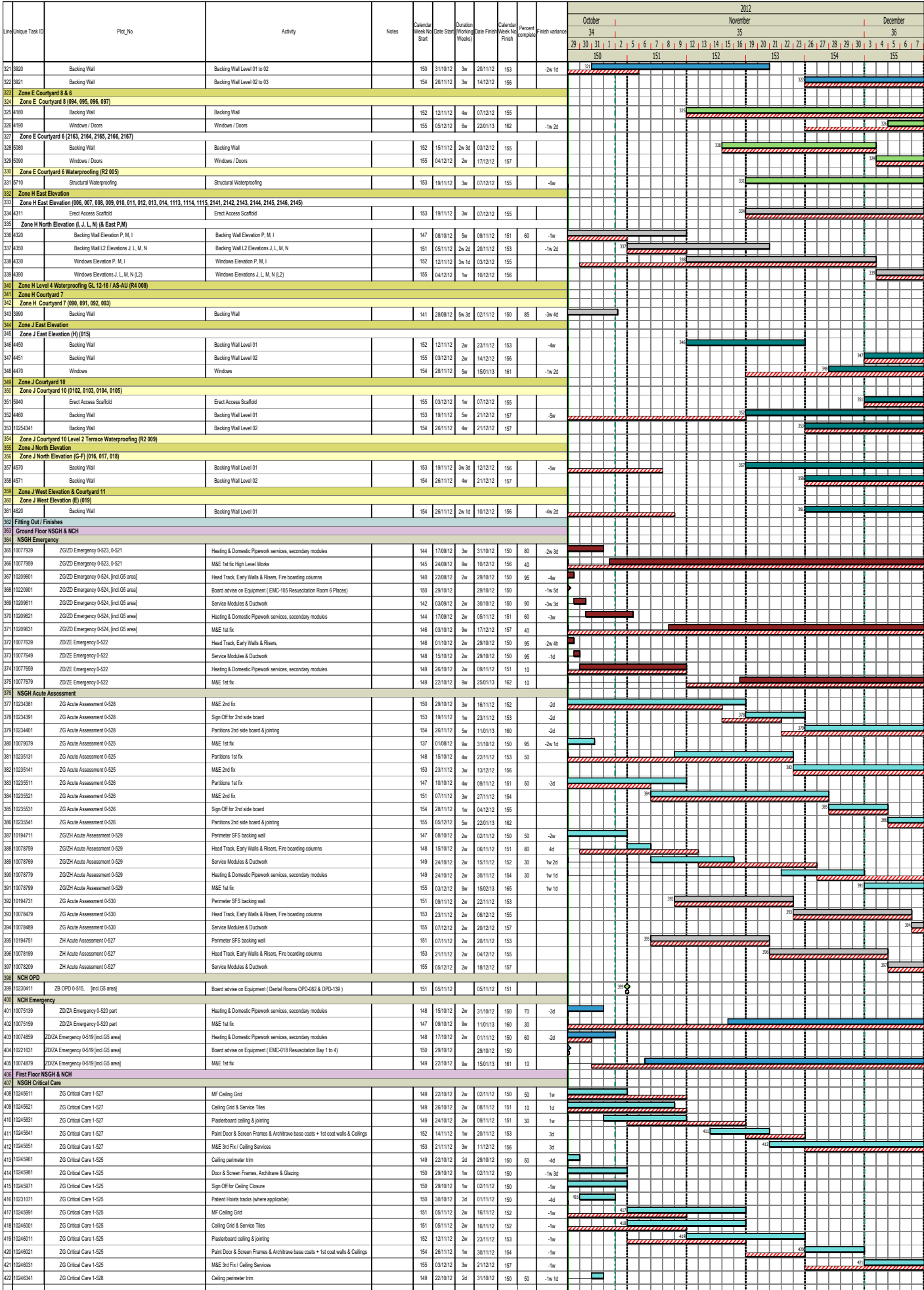
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Appendix B – A&C Hospitals - 6 week lookahead programme

<p>This programme is copyright and the property of Brookfield Construction (UK) Ltd and must not be used with out written approval".</p>	<p>Comments: 6 Week Lookahead - Week 150 to 155</p>										<p>This programme is strictly for information only, and will not form any part of any resulting Sub-Contract</p>
	<p>Date of Issue: 31/10/2012 Print Date: 31/10/2012</p>		<p>Drawn By: Andrew Bebbington Page 1 of 8</p>		<p>Programme No.: BM-GS3-WK-0070</p>		<p>Rev.: Rev. Date: 31/10/2012</p>				

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	Date of Issue: 31/10/2012 Print Date: 31/10/2012	Drawn By: Andrew Bebbington Page 2 of 8		Programme No.: BM-GS3-WK-0070		Rev.: Rev. Date: 31/10/2012										

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	Date of Issue: 31/10/2012 Print Date: 31/10/2012	Drawn By: Andrew Bebbington Page 7 of 8	Programme No.: BM-GS3-WK-0070		Rev.: Rev. Date: 31/10/2012						

Baselines					
Stage 3 Week 145 baseline					
"This programme is copyright and the property of Brookfield Construction (UK) Ltd and must not be used with out written approval".			Comments: 6 Week Lookahead - Week 150 to 155		This programme is strictly for information only, and will not form any part of any resulting Sub-Contract
Date of Issue: 31/10/2012 Print Date: 31/10/2012		Drawn By: Andrew Bebbington Page 8 of 8		Programme No.: BM-GS3-WK-0070 Rev.: Rev. Date: 31/10/2012	

New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield MULTIPLEX

Monthly Progress Report

January 2013



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3 Programme and Progress

4 Design Development

5 Construction and Logistics

6 Project Supervisor

7 Commercial

8 Commissioning

9 Enabling Works

10 Appendices

Appendix A - Site Photographs

Appendix B - 6 Week look ahead programme Stage 3

1. EXECUTIVE SUMMARY

1.1 Introduction

The Joint NHS /Brookfield Multiplex Project Team are continuing to work on a range of tasks to ensure that the Project remains on programme i.e.

- Management of Risk and Change
- Cost control and management of NEC3 processes (EW/PMI/CE) for Stage 3
- Close out of defects/snags on Stage 1 works (Labs & FM Building)
- Stage 3 Enabling Works
- Design and Construction of Stage 3 – Adult and Children's Hospitals and Energy Centre
- Review of latest version of equipment list (issued 11/01/13) underway and a costed schedule is expected soon
- Group 5 equipment - regular meetings established to work up installation and fit out of rooms.

The notes below summarises some of the key points from the detailed reports that are included in the following sections.

1.2 Health and Safety

No RIDDOR or serious injury during the month of December 2012

9 minor injuries reported on site during the month of December 2012

1.3 Programme and Progress

The following programme has been uploaded to Sypro and is attached as an appendix to this report:

- Stage 3 Adult & Children's Hospital Construction Programme 6 week look-ahead programme

Note: Full set of programmes are available on Sypro.

1.4 Design Development - Adult and Children's Hospitals

Good progress continues to be made in the detailed design of systems for the two hospitals. Forthcoming workshops include key suiting, security, internal signage and external works.

1.5 Construction and Logistics

a) Laboratory Building

BMCL are working with the NHS Team to resolve the issues re. heating and cooling levels in 3 rooms resulting from new laboratory equipment installed as part of the Abbott Managed Service Contract.

The Labs Water Filtration plant is on order and installation of the plant is anticipated March 2013.

Minor defects are continuing to be addressed as they arise.

b) Adult and Children's Hospitals

The construction of the Adult and Children's Hospitals remains on programme. BMCL continue to be in dialogue with their Insurance Loss Adjustor regarding the claim for out of tolerance piles.

c) Other General Matters

BMCL are progressing the car park construction design. The compensation event for the Car Park was issued on 17th January 2013.

Energy Centre – handover now programmed for 18th April 2013.

1.6 Project Supervisor

- **New Laboratory Facility**

The fault rectification process continues and the NHS, Capita and BMCL are working together to close out the 2 outstanding defects at handover, i.e. Sedum Roof and Mortar Splatter. (Note: Sedum roof will not be closed out until Summer 2013 at the earliest).

- **New Adult and Children's Hospitals**

Capita indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements. Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

1.7 Commercial

Target price remains within agreement.

Compensation events which have been concluded are estimated at £10,538,829.00

Weekly meetings to review Early Warnings, Project Manager Instructions and Compensation Events are ongoing.

2 HEALTH, SAFETY AND ENVIRONMENT

Safety Summary

	Total Number			Comment and Details
	To Date	Previous Month	This Month	
First Aid:				Energy Centre = 0 injury A&C = 9 injuries 2 Finger injuries 2 Foot injuries 1 Hand injury 2 Arm injuries 2 Eye injuries
- Treatments	229	9	9	
- Referrals	0	0	0	
Days Lost due to Injuries:				
- Brookfield Construction UK Ltd	2	0	0	
- Subcontractor	54	3	0	
Number of men on site (going through turnstile)		914	990	
Total number on site (including office, welfare and visitors)		1014	1090	
OH & S Plans / WMS:				37 - A status 26 - B status 18 - C status
- Received	1164	81	69	
- Reviewed	1065	81	69	
- Approved	791	18	18	
Work cover:				
- Inspector visits	4	0	0	
- Fines / Directions	0	0	0	
Incidents:				Energy centre & Labs: 0 NCR issued 0 Yellow cards issued A&C 0 NCR issued 4 yellow cards issued. 0 red cards issued. 1 Incident: Prater operative unlocked coral gate and stood at the unprotected edge with no fall protection equipment on.
- Public	0	0	0	
- Site	23	4	0	
Accident Frequency Rate (AFR) Cumulative	0.09	0.09	0.09	Company Target 0.10
12 Month Rolling AFR	0.08	0.08	0.08	Project Target (2011) 0.32.

Summary of any measures undertaken to improve Site Safety last month:	<ol style="list-style-type: none"> 1) Blue vest / supervisor training 2) Mental Health Train the Trainer 3) Web based EHS system Training 4) Monthly safety focus – Scaffolding 5) PPE Audits / Plant Audits / Pre Start Meetings 6) Random drug and alcohol screening – 0 undertaken in Nov/Dec.
Work activities programmed to take place next month that require additional safety measures	<ol style="list-style-type: none"> 1) Mast climbers continue cladding works within Atrium – Work at heights, increased vehicle movements. 2) Table flying to A&C continue – Crane operations, work at height. 3) Working close to the Blue route. 4) Light Protection System continues being installed – Lifting operations, work at height. 5) Atrium Link Bridge Concrete and Curtain Wall Cladding commences to the Tower. (Structal).

3. PROGRAMME AND PROGRESS

3.1 Summary Status of the works - A&C Hospitals and Energy Centre

Stage 3 Start Date	28 March 2011 Week 67
Stage 3 Contract Completion Date	28 February 2015 Week 271
Stage 3 Contract Duration	Week 271- 66 = 205 weeks
Report Date	To 30 December 2012 Week 158
Elapsed contract period at 30 December 2012	(Week 158 -66) = 92 weeks (45%)
Period Remaining	(Week 271 -158) = 113 Weeks

Phase	+/- In period	Comments
Stage 3 Adults & Children's Hospital Construction	0	Maintaining progress this period.
Stage 3 Energy Centre Construction	0	Maintaining progress this period.

3.2 Progress Summary Statement

BMCL advise that there are no matters likely to affect the completion date at this time.

4.0 Weather Record

BMCL have confirmed that there is a 1:10 year event for December 2012, both in terms of days of rain and daily rainfall and Early Warning 134 has been raised.

4. DESIGN DEVELOPMENT - Stage 3 Adults and Children's, and Energy Centre

4.1 1:50 Drawing Review/RDS Sign-off/Strategy Reviews and RDD

The NHS Project Team continue to review and return RDD drawings to BMCL. BMCL are continuing to work with the NHS Team to ensure that any late return of drawings has no impact on the construction programme and BMCL will continue on the basis of information available. Should any discrepancies to final NHS sign off be realised post construction this will be subject of separate discussions..

The RDD workflow tracker continues to be issued and reviewed on weekly basis, and information flow is keeping pace with procurement requirements.

New samples are continuing to arrive for the A&C with progressive sign-off – no issues encountered thus far.

4.2 Building Control – Warrants and Approvals Update

Building Control – Please see below table.

25 warrant applications made to date 22 warrants have been granted.

Building Warrant No	Content	Zones	Issued to BCO	Approval by BCO
1	Substructure	Energy Centre	A.20.09.10	Granted 10.10.10
2	Fire Strategy	Energy Centre	A.10.10.10	Granted 10.01.11
6	Site Services Diversions, Drainage, SUDS	Site wide	A.12.10.10	Granted 25.07.11
3	Below Slab Drainage	Energy Centre	A.13.12.10	Granted 08.06.11
8	Fire Strategy	Adults & Children's, all zones	A.25.02.11 All subsequent technical queries responded to. View approvals received. Corridor doors and ironmongery to be determined by BCO	
7	Substructure	Adults & Children's, all zones	A.14.02.11	Granted 08.06.11
4	Superstructure – concrete and steelwork	Energy Centre	A.04.04.11	Granted
5	Building Envelope, Internal Fitout, Mechanical Ventilation, Fire Alarms etc	Energy Centre	A.17.05.11, Response made to requested queries 17.11.11	Granted 04.05.12

20	Building Envelope, Roof, air tightness, fire stopping etc	Adults & Children's, all zones	Final responses issued for Podium 31.07.12 to BCO SUK Tower Elements above Podium cleared 19.06.12, Podium Outstanding. SBEM calculation issued 23.08.12	Granted 14.11.12
9	Cores A,B,C,D,E,F &G	Split in to 2 batches – Initially , EF&G issued	A.14.06.11 Responses made to requested queries 21.12.11	Granted 04.05.12
10	Concrete Superstructure, up to level 3	Zone G	A.02.12.11	Granted 04.05.12
11	Concrete Superstructure, up to level 3	Zone D	A.16.12.11	Granted 04.05.12
21	Below Slab Drainage	All zones	A.09.12.11	Granted 04.05.12
22	Above ground drainage	Childrens	17/02/12. BCO feedback rec'd and consultants responses issued	Granted 10.07.12
23	Above ground drainage	Adults (Part)	14/03/12 BCO feedback rec'd and responses issued	Granted 30.07.12
25	Mechanical Ventilation	Zone G, D	17/02/12 Comments awaited Exemplar presentation on design philosophy given to GCC BCO 22.05.12 Substitute Drawing PL-524-024 issued 24.08.12	Granted 21.11.12
24	Internal Fit Out	Levels 0,1,2 and 4 (Adults Part)	Issued – GCC. Queries received 16.08.12, responses being prepared	

12	Podium Superstructure ZH		Issued – awaiting comments from GCC	Granted 04.05.12
13	Superstructure ZE			Granted 08.06.11
14	Superstructure ZA, ZJ	Podium	Issued 24.08.12 awaiting comments from GCC	Granted 22.11.12
15	Superstructure ZB, ZF	Childrens/Podium	Issued 24.08.12 awaiting comments from GCC	
16	Superstructure ZC	Childrens	Issued to BCO	Granted 11.10.12
35	Mechanical Ventilation	ZJ, Plantrooms 32 & 33	Issued to BCO	
30	Mechanical Ventilation	ZA, B, C + Plantroom 22 & Tower 4-11	Issued 03.10.12	Granted 22.11.12
31	Mechanical Ventilation within Tower	ZK,H,F,J	Issued 03.10.12	Granted 26.10.12
47	ZK Atrium Link Structure	Adults Zone K	Issued complete with SER 17.07.12	Granted 17.07.12

The final stage 8 Fire safety warrant approval still remains subject to approval of ironmongery and cross corridor doors. The NHS and BMCL teams are working together and is work in progress.

4.3 Planning Matters

Ground conditions:

The most recent ground contamination report indicates increases during August and October. However the magnitude of the increase is relatively low and the trend is as expected. BMCL and the NHS Team have met to discuss the content and this is currently under review by the Boards Technical Advisers pending any further action.

TRO:

The NHS and BMCL Team has met with Glasgow City Council in respect of TRO and this is progressing. Meetings regarding the section 56 (GCC insistence on road repairs) are to be arranged. Correspondence is ongoing with GCC to refute the possible cost associated with the road resurfacing that GCC are looking to pass on. Road condition surveys undertaken on 2010 are with the Council.

5. Construction and Logistics

5.1 Labs Commissioning

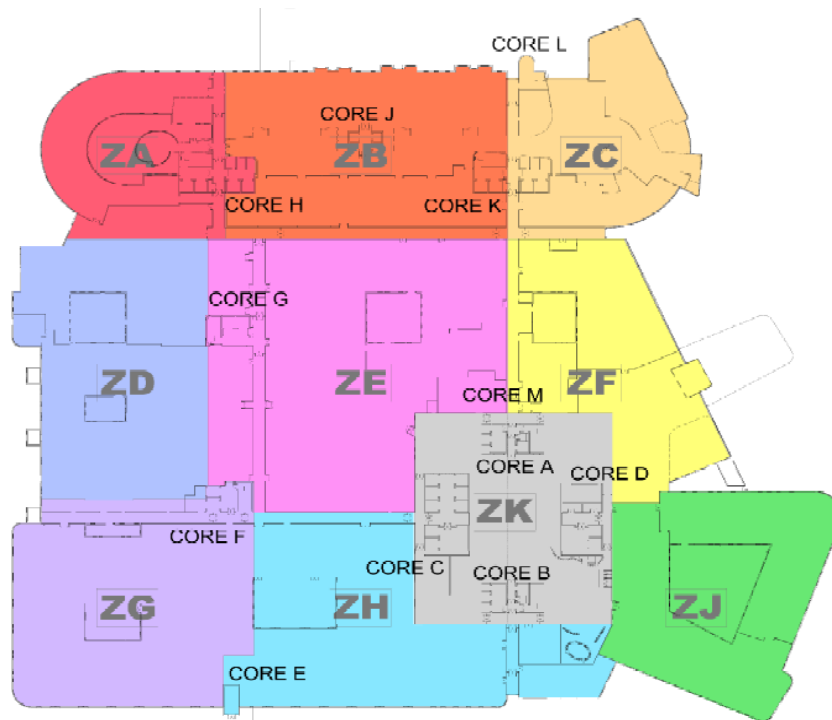
a) Cooling Levels

BMCL have developed plans to adapt the cooling in 3 areas and this work will be undertaken in February 2013.

b) Laboratory Water Filtration Plant

The order for the water filtration plant for the Laboratory Facility has been placed. Works will now take place at the end of March 2013.

5.2 Stage 3 Works



Zoning Plan and Core References

i) Foundations

Pile caps completed

ii) Under Slab Drainage

G	D	H	E	A	J	F	B	K	C
100%	100%	100%	70%	100%	40%	5%	20%	100%	Not Started

iii) Concrete GF Slab

G	D	H	E	A	J	F	B	K	C
100%	100%	100%	30%	100%	20%	0	5%	85%	0
			Early February						

iv) Cores

B Level 12 capping slab to be completed mid January 2013

A Level 11 completed. Stairs at level 7

J Lift lobby slabs level 1 completed.(no stairs)

K Stairs completed and lift lobby floors completed to level 3

L Stairs not started

E Screed to metal stairs completed.

v) Main Concrete Frame

Concrete Pour Schedule

Area	Pour 1	Pour 2	Pour 3	Pour 4	Pour 5	Pour 6	Pour 7
ZG	Complete						
ZD	Complete						
ZH							
ZH L7	Complete						
ZH 8	○	○					
ZH 9	○	○					
ZH 10	○	○					
ZH 11	○	○					
ZH 12	○	○					
ZE							
ZE L5	Complete						
ZE L6	Poured	○					
ZE L7	○	○					
ZH L8	○	○					
ZH L9	○	○					
ZF							
ZF L3	Complete						
ZF L4	Poured	○					
ZF L5	○	○					
ZF L6	○	○					
ZF L7	○	○					
ZJ							
ZJ L3	Complete						
ZJ L4	Complete						
ZJ L5	○	○					
ZA	Complete						
ZB							
ZB L2	Complete						
ZB L3	Poured	Poured	Poured	Poured	○		
ZB L4	○	○	○	○	○		
ZC							
ZC L1	Complete						
ZC L2	Poured	○	Poured	○	○		
ZC L2	○	○	○	○	○		
ZC L3	○	○	○	○	○		

vi) **Adult Atrium Link Bridge**

Installation complete with remedial works now finished. Concrete to slabs due to start w/c 28th January 2013, level 12 and work down.

vii) **External Walling/Cladding Adult Podium & Children's**

- **Cladding** – South elevation loading bays will be completed by Mid January work in the courtyards are progressing in line with the programme.
- **Louver Vents** – completed on the loading bays and substantially completed on Plant room 21.
- **Turret Vents** - Louver frames will be installed early January with the cladding due to commence Mid February.
- **Windows** – court yard 2 and 3 substantially completed with courtyard 7 starting w/c 21 January
- **Render** – Render works are completed in courtyard 5. The south elevation render works are ongoing subject to the correct weather conditions.
- **Podium Curtain walling** Due to start ZH L3 on the East elevation from w/c 21 January
- **Roofing** – Hot Melt works are progressing in line with the roofing programme with level 4 finishing works now on going.

- **Unitised Cladding**

Structal have started survey works and will commence installing brackets at the end of January 2013 with Panels due to commence to ZH L4 end February 2013

viii) **Fit Out / Mechanical Installation**

- **Adult Podium**

The fit out works continue to progress in line with the programme with head track now installed across all Zones on level 1.

The exemplar area has lights on via temporary power and final coat decoration and furniture being installed.

- **Children's**

Fit Out to the children's hospital is progressing with head track now being installed on the ground floor. ZA Level 5 – steelwork for the level 5 plant room will commence 21 January.

- **Tower**

ZH level 4 early head track has commenced and Modules have been installed.
ZH Level 5 Head track has commenced.

ix) **Lifts**

Lift installation is ongoing in Core G and Core C. These lifts 20 and 10 are beneficial use lifts and scheduled to be installed over the next 3 months and will be used as part of the vertical logistics during the construction works.

5.2 External Works

i) Boulevard Road. (Up to Lab crossing)

Water and fire mains installation has progressed to the east side of the road and being tested week commencing 21/01/13.

Haul road remains open for forklift access only to Energy Centre

Road construction continuing with gully installations.

Details of the road construction interface with access to the Laboratory building crossing are being prepared for discussion with the Board in January 2013.

The Board have commenced dialogue with Cable & Wireless and Virgin Media with regard to re-routing their cables that run in the pavement across at the Govan Road entrance to the boulevard. The Board are awaiting updated plans.

ii) Hoist 3 (zone C)

Drainage below hoist base due for completion by 25/01/13.

Hoist due week commencing 28/01/13.

iii) Comms Cables to Clock Tower

2nd Fibre cable now installed and in operation.

iv) Drainage

External drainage to area west of Zone F to start week commencing 28/01/13.

v) Services.

Fire and water main feeds are being taken into building at zone B crawl-space.

Water and gas main feeds are being taken in at zone F basement.

vi) Energy Centre Road Slab (North Elevation)

NHS HV loop into Energy Centre to commence 18th March 2013

North elevation drainage March 2013.

Road slab after drainage – April / May 2013.

5.3 Energy Centre

Architectural & Facade

Works are ongoing to close the opening in the façade to Plantroom B2 was complete for the end of December. Works to close up the remainder of the riser blockwork walls have been completed. The permanent door suiting is complete to the A Side in line with the suiting arrangements agreed.

Mechanical

The mechanical works on the roof and at level 2 are progressing with the high level MTHW/CHW/Gas pipework is ongoing. Installation of the pumps on the roof and associated pipework to the chillers is substantially complete. The fuel oil pipework to the day tanks in Plantroom B1 is complete. Delivery of the Absorption Chiller to Plantroom A2 is scheduled for mid January which will allow the façade to be completed to this opening for February.

Electrical

The A Side Electrical Network Management System (ENMS) commissioning is ongoing with the operation of the Energy Centre PLCs available. The electrical installation to Plantroom B1 continues with the HV cabling has commenced from the generators up to the HV switchgear at level 2. The cross cabling from the A-side to the B-side is progressing.

A side completion – programmed for 18th April 2013.

5.4 Car Park 1

Following approval of the revised planning drawings on the 21st December 2012, BMCL and NHS teams have been working together to conclude the compensation event, and CE 041 was issued on 16th January 2013.

BMCL have an established series of design meetings and the NHS will start to attend these meetings from February 2013.

6. PROJECT SUPERVISOR

6.1 New Adult and Children's Hospitals

Visits to the site during December 2012 indicated that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements.

Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

Brookfield continues to undertake their Quality Assurance systems on site with inspection and checklist documentation available for the ongoing construction activities. Over the period, Capita have closely liaised with Brookfield and witnessed both drainage tests and 85 point check to partitions on Level 2. Capita's witnessing resulted in successful tests.

The standard of the work in the exemplar rooms in progress during this period is to a good industry standard. Capita shall continue to monitor the work planned for the coming month. The internal finishes workmanship standards are used as a benchmark for all room completions.

Cladding is progressing on the south and east elevations and courtyards 2, 3, 4 & 5 and south elevation plant room 21 & 31. Capita inspected the cladding in Courtyard 5 prior to the scaffold being removed from the upper areas and commented on snagging issues. Brookfield has raised an NCR in relation to these issues. The "STO" system is complete in courtyard 5 advanced in courtyard 4 and ongoing in courtyards 2 and 3 and the south and east elevation. The standard and quality of the work is generally to a good industry standard.

Energy Centre structural work snagging now appears to be completed. Final tidying up is still to be undertaken as reported in the past period.

In respect of the piling records on ZUTEC, replacement of the current construction drawings by 'as built' drawings is still awaited.

Issues surrounding the atrium steelwork detailing remain ongoing and details of the positional survey together with design check philosophy and methodology for the concrete floor casting have been requested. A meeting to discuss this issue further has been arranged for early in the next period. Repairs to damage to the fire protection coating (shop applied) on some sections remains outstanding and will be addressed when access is easier. Elsewhere ancillary steelwork around cores and at stairwells has progressed, and in occasional places some minor remedial attention to bolts and cleats is required.

Sub-slab drainage in Zones A, D, E and H has again progressed during the period with pressure tests proving satisfactory. Some rodding demonstration remains to be carried out when position of scaffolding permits.

A few quality issues remain to be addressed from previous reports but these are not considered programme critical at this stage.

The M&E installation is now well advanced, with pre-fabricated sections and second and final fix being installed in the A&C areas. Large plant items continue to be installed in the Energy Centre and areas are now being commissioned looking towards partial completion in the coming months. Testing is now being carried out in the Energy Centre.

In general terms Capita are satisfied that the installations continue to be installed to a compliant standard, and are of a good quality however 8 Supervisor's Communications were raised over the period in order to address some concerns i.e. supports to the medical gas pipes are sufficient, gaps between fire boards at high level at END-036 and door leading into corridor XCA2-059,

No Supervisor's Notification of Defects issued during December.

Capita continue to be assisted by the site teams and the NHS Project Team who produce an internal weekly report which assists us in resolving various construction, mechanical, electrical, and quality issues. Capita continue to close out their Supervisor's Notifications and Defects when they have received satisfactory responses.

7. COMMERCIAL

7.1 Budget V Cost Plan – TP/MP

Adult and Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on Target Price.

There has been 40 Nr Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties.

Contract Award Target Price	£575,111,382.00
Compensation Event Notices Issued - formally closed out	-£890,802.00
Compensation Event Notices Issued - awaiting close out	-
Current Estimated Contract Target Price Stage 1 – Stage 3A	£574,220,580.00
Car Park 1 Compensation Event	£11,429,631
Current Estimated Overall Contract Target Price	£585,650,211

7.2 Value Engineering/Opportunities

Value engineering opportunities are reducing as the design and procurement progresses through the final stages. A further joint review is to be undertaken in order to identify any additional items and a meeting will take place on 25th February 2013.

7.3 Defined Cost Audits

Sample audits are undertaken as part of the Payment Assessment Process. All information requested continues to be provided timeously. Issues are dealt with on an ongoing basis and closed out. Key disallowable costs at Assessment Nr 36 are:

- Mercury Engineering supplier/sub-contractor costs not in accordance with Schedule of Cost Components
- Brookfield costs not in accordance with Schedule of Cost Components
- Structural post Laboratory Building handover defect correction

7.3.1 Piling

Discussions between BMCL and their Insurers are ongoing. Once BMCL have been advised the way forward by their Insurers they will inform the NHS Commercial Reps.

7.4 Early Warning Notices

A summary of all Early Warning Notifications (EWNs), Project Managers Instructions (PMIs) and Compensation Event Notices (CENs) activity as at 17th January 2013 is detailed below:

- Brookfield Multiplex have issued 133 EWNs to the Board, 126 have been closed out and 7 are currently open.
- The Board have issued 47 EWNs to Brookfield Multiplex, 45 have been closed out and 2 are currently open.
- The Board have issued 198 PMIs to Brookfield Multiplex, 191 have been actioned and closed and 7 are currently open.
- 39 CENs have been concluded.

Weekly meetings to review EWNs, PMIs and CENs are ongoing.

Full details of all EWNs, PMIs and CEs can be found in the EW Tracker, available from the Board on request.

7.5 Cashflow

The cashflow for 2012/13 is currently forecast at £185m excluding VAT but inclusive of piling remedial costs (remedial costs may be reimbursed by Insurers at an approximate value of £2m).

7.6 Monthly Payments

Assessment Nr 36 was processed and issued on 16th January 2013 as follows:

PSCP	Stage 1	£	74,579,384.00
	Stage 2		17,842,011.00
	Stage 3		214,753,251.00
	Stage 3A		-
PSCP Work Done to Date		£	<u>307,174,646.00</u>
	Deduct retention free amount	£	0.00
	Sub total	£	<u>307,174,646.00</u>
	Retention		-1,864,485.00
	Sub total	£	<u>305,310,161.00</u>
	Deduct previous payments	£	<u>283,207,963.00</u>
	Sub total	£	<u>22,102,198.00</u>
Add VAT %	20.00%	on £	£ 4,420,439.60
	Amount due	£	<u><u>26,522,637.60</u></u>

8. COMMISSIONING

8.1 New Adult and Children's Hospitals

Nothing to report.

9. ENABLING WORKS

9.2 Mortuary Demolition

Asbestos removal works completed. The tenders for demolition works have been received and works are expected to commence in early March 2013.

10. APPENDICES

Appendix A - Site Photographs



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Appendix B – A&C Hospitals - 6 week lookahead programme

<div>Brookfield MULTIPLEX Built to outperform.</div> <div>BM</div>			<div>New South Glasgow Hospitals Project</div> <div>Stage 3 Adult & Childrens Hospital Programme</div>										<div><div>NHS</div><div>Greater Glasgow and Clyde</div></div> <div>Page 499</div>																																									
Line	Unique Task ID	Plot_No	Activity	Notes	Calendar Week No Start	Date Start	Duration (Working Weeks)	Date Finish	Calendar Week No Finish	Percent complete	Finish variance	<div><div>2013</div><div>January</div><div>February</div><div>783738</div><div>78910111517212325293141611214</div><div>160161162163164165</div></div>																																										
1 Early Works & Enabling Works																																																						
2 ADULT & CHILDRENS HOSPITAL CONSTRUCTION																																																						
3 Tower Cranes																																																						
4 TC4 Zone D																																																						
5	10173871	BM main use	BM main use		122	16/04/12	62w 2d	14/08/13	191	51	1w 3d																																											
6 TC8 Zone H																																																						
7	10001139	Dunne main use	Dunne main use		80	30/06/11	89w 2d	17/05/13	178	80																																												
8 TC10 Zone K																																																						
9	10001151	Dunne main use	Dunne main use		145	24/09/12	51w 2d	01/02/13	163	98	-3w																																											
10 TC9 Zone J																																																						
11	10001319	Dunne main use	Dunne main use		92	19/09/11	88w 2d	05/08/13	190	67																																												
12 TC6 Zone F																																																						
13	10111300	Dunne main use	Dunne main use		93	29/09/11	89w	20/08/13	192	65																																												
14 TC5 Zone E																																																						
15	10001180	Dunne main use	Dunne main use		91	12/09/11	87w	18/07/13	187	69																																												
16 TC1 Zone A																																																						
17	10001270	Dunne main use	Dunne main use		91	12/09/11	64w	18/01/13	161	97	-1d																																											
18	10001271	BM main use	BM main use		162	21/01/13	14w 2d	07/05/13	177		-1d																																											
19 TC2 Zone B																																																						
20	10001240	Dunne main use	Dunne main use		95	10/10/11	65w 4d	27/02/13	167	88																																												
21 TC3 Zone C																																																						
22	10111390	Dunne main use	Dunne main use		102	30/11/11	66w 1d	15/05/13	178	75	-4d																																											
23 Ground Floor Slab and u/slab Drainage																																																						
24	10229051	Underslab drainage runs ,ZE	Underslab drainage runs ,ZE area 5		154	29/11/12	3w	09/01/13	160	85	-4d 2h																																											
25	10285431	Underslab drainage runs ,ZE	Underslab drainage runs ,ZE area 7		156	14/12/12	2w	11/01/13	160	55																																												
26	10229061	Underslab drainage runs ,ZE	Underslab drainage runs ,ZE area 6		155	05/12/12	3w	14/01/13	161	60	-4d																																											
27	10285461	Underslab drainage runs ,ZE	Underslab drainage runs ,ZE area 8		160	07/01/13	2w	18/01/13	161																																													
28	10285471	Underslab drainage runs ,ZE	Underslab drainage runs ,ZE area 9		161	14/01/13	2w	25/01/13	162																																													
29	10155204	Underslab drainage runs ,ZJ	Underslab drainage runs ,ZJ area 4		156	10/12/12	2w 2d	11/01/13	160	65	-2d 2h																																											
30	10155205	Underslab drainage runs ,ZJ	Underslab drainage runs ,ZJ area 5		157	17/12/12	2w	17/01/13	161	10	-4d																																											
31	10155206	Underslab drainage runs ,ZJ	Underslab drainage runs ,ZJ area 6		160	07/01/13	2w	18/01/13	161																																													
32	10155207	Underslab drainage runs ,ZJ	Underslab drainage runs ,ZJ area 7		161	14/01/13	2w	25/01/13	162																																													
33	10155208	Underslab drainage runs ,ZJ	Underslab drainage runs ,ZJ area 8		162	21/01/13	2w	01/02/13	163																																													
34	10230381	Underslab drainage runs ,ZF	Main Drainage runs ,ZF	600m	157	19/12/12	3w	30/01/13	163	15	-3w 3d																																											
35	10155211	Underslab drainage runs ,ZF	Underslab drainage runs ,ZF area 1	600m	157	19/12/12	3w	01/02/13	163	15																																												
36	10255331	Underslab drainage runs ,ZF	Underslab drainage runs ,ZF area 2		163	28/01/13	3w	15/02/13	165		1w																																											
37	10255411	Underslab drainage runs ,ZF	Underslab drainage runs ,ZF area 3		164	08/02/13	3w	28/02/13	167		2w 1d																																											
38	10155221	Underslab drainage runs ,ZB	Underslab drainage runs ,ZB area 1	500m	156	10/12/12	3w	17/01/13	161	40	-4d																																											
39	10155222	Underslab drainage runs ,ZB	Underslab drainage runs ,ZB area 2		160	07/01/13	3w	25/01/13	162		-1w																																											
40	10155223	Underslab drainage runs ,ZB	Underslab drainage runs ,ZB area 3		160	07/01/13	3w	25/01/13	162																																													
41	10155231	Underslab drainage runs ,ZC	Underslab drainage runs ,ZC	600m	163	28/01/13	9w	15/02/13	165		1w																																											
42 Ground Floor Slab - Level 00																																																						
43 Zone E																																																						
44	10001359	Zone E Area 4 - Level 00	Zone E Area 5 - Level 00	924m2 / 277m3	157	20/12/12	1w	15/01/13	161	10	1d 2h																																											
45	10001499	Zone E Area 4 - Level 00	Zone E Area 6 - Level 00	924m2 / 277m3	161	15/01/13	1w 1d	22/01/13	162																																													
46	10285511	Zone E Area 4 - Level 00	Zone E Area 7 - Level 00		161	15/01/13	1w 1d	23/01/13	162																																													
47	10285501	Zone E Area 4 - Level 00	Zone E Area 8 - Level 00		162	23/01/13	1w 1d	30/01/13	163																																													
48	10285491	Zone E Area 4 - Level 00	Zone E Area 9 - Level 00		163	28/01/13	1w 1d	04/02/13	164																																													
49 Zone J																																																						
50	10001569	Zone J Area 1 - Level 00	Zone J Area 1 - Level 00	877m2 / 263m3	157	18/12/12	1w 3d	10/01/13	160	50	1w 4d																																											
51	10001570	Zone J Area 1 - Level 00	Zone J Area 2 - Level 00 (incl.ZK)		160	07/01/13	1w 3d	16/01/13	161		2w 1d																																											
52	10001579	Zone J Area 2 - Level 00	Zone J Area 3 - Level 00	877m2 / 263m3	160	11/01/13	1w 3d	22/01/13	162		2w 2d																																											
53	10001589		Zone J Area 4 - Level 00	877m2 / 263m3	161	18/01/13	1w 3d	29/01/13	163		2w 2d																																											
54	10285451	Zone J Area 3 - Level 00	Zone J Area 5 - Level 00		161	18/01/13	1w 3d	29/01/13	163		3w 2d																																											
55	10001389	Zone J Area 3 - Level 00	Zone J Area 6 - Level 00		162	21/01/13	1w 3d	30/01/13	163																																													
56	10285521	Zone J Area 3 - Level 00	Zone J Area 7 - Level 00		163	28/01/13	1w 3d	06/02/13	164																																													
57	10285531	Zone J Area 3 - Level 00	Zone J Area 8 - Level 00		164	04/02/13	1w 3d	13/02/13	165																																													
58 Zone F																																																						
59	10001639	Zone F Area 2 - Level 00	Zone F Area 1 - Level 00	597m2 / 180m3	165	11/02/13	3w	01/03/13	167																																													
60 Zone B																																																						
61	10001749	Zone B Area 3 - Level 00	Zone B Area 1 - Level 00	560m2 / 168m3	161	18/01/13	2w	31/01/13	163		1d																																											
62	10001729	Zone B Area 1 - Level 00	Zone B Area 2 - Level 00	560m2 / 168m3	163	28/01/13	2w	08/02/13	164		1d																																											
63	10001739	Zone B Area 2 - Level 00	Zone B Area 3 - Level 00	560m2 / 168m3	164	05/02/13	2w 3d	21/02/13	166		-4d																																											
64 Superstructures																																																						
65 Core Construction (Jumpformed)																																																						
66	9997990	Capping slabs to Core J	Capping slabs to Core J		164	04/02/13	2w	15/02/13	165		-3d																																											
67	9998000	Internal Floor Slabs to Core J	Internal Floor Slabs to Core J		156	12/12/12	1w 3d	10/01/13	160	50	-1w 4d																																											
68	9998001	Internal Floor Slabs to Core J	Internal Floor Slabs to Core J		160	11/01/13	1w 3d	22/01/13	162		-1w 4d																																											
69	9998002	Internal Floor Slabs to Core J	Internal Floor Slabs to Core J		162	23/01/13	1w 3d	01/02/13	163		-3d																																											
70	10155991	Zone F Core N	Zone F Core N [now Steel Frame Concrete tread infills]	Level 00 to 01	161	14/01/13	5w	15/02/13	165		2d																																											
71	10206321	Internal Floor Slabs to Core L	Internal Floor Slabs to Core L		162	21/01/13	1w 1d	28/01/13	163		-3w 3d																																											
72	10228931	Internal Floor Slabs to Core L	Internal Floor Slabs to Core L		164	04/02/13	1w 1d	11/02/13	165		-4w 2d																																											
73 Tower Main Concrete Cores (Slipformed)																																																						
74	6406	Capping slabs to Core B	Capping slabs to Core B		156	14/12/12	3w	17/01/13	161	40	-4d																																											
75 Internal Floor Slabs to Core A																																																						
76	6494	Level 13	Level 13		160	07/01/13	1w 1d	14/01/13	161		-1w 4d																																											
77	6436	Capping slabs to Core A	Capping slabs to Core A		161	14/01/13	2w	25/01/13	162		-2w 1d																																											
78	10221471	Internal Floor Slabs Core K	Internal Floor Slabs Core K		149	23/10/12	5w	09/01/13	160	88	-1w 4d																																											
79	10206311	Capping slabs to Core K	Capping slabs to Core K		160	07/01/13	2w	18/01/13	161		-1w 4h																																											
80 Concrete Frame Level 00 to 01																																																						
81 Concrete Frame Level 01 to 02																																																						
82 Zone C																																																						
83	9999209	Zone C Area 2 - level 2	Zone C Area 2 - level 2	1164m2 / 350m3	154	26/11/12	3w 3d	09/01/13	160	83	-1w																																											
84 Concrete Frame Level 02 to 03																																																						
85 Zone B																																																						
86	10225111	Zone B Area 3 - level 3	Zone B Area 5 - level 3	804m2 / 241m3	156	10/12/12	4w	18/01/13	161	50	-1w																																											
87 Zone C																																																						
88	10254691	Zone C Area 2 - level 3	Zone C Area 3 - level 3	868m2 / 260m3	157	21/12/12	3w 3d	29/01/13	163	6	-1w																																											
89	9999419	Zone C Area 1 - level 3	Zone C Area 1 - level 3	682m2 / 204m3	161	14/01/13	6w	22/02/13	166		-3w 3d																																											
90	9999429	Zone C Area 2 - level 3	Zone C Area 2 - level 3	868m2 / 260m3	162	24/01/13	3w 2d	15/02/13	165		-1w																																											
91 Concrete Frame Level 03 to 04																																																						
92 Plantroom Roof																																																						
93	10210051	Zone E Area 1 Plantroom roof - Level 4	Zone E Area 4 Plantroom roof - Level 4	1064m2 / 319m3	155	03/12/12	3w 3d	09/01/13	160	83	-1w																																											
94 Tower																																																						
95	10000199	Zone F Area 2 - Level 4	Zone F Area 2 - Level 4	728m2 / 218m3	155	06/12/12	3w 2d	11/01/13	160	71	2d																																											
96 Zone A																																																						
97	10254641	Zone A Area 4 - Level 4	Zone A Area 4 - Level 4		157	20/12/12	1w 2d	11/01/13	160	29	-1w 4d																																											
98	10196291	Riser Modules Zone A Level 0 to 4 (Riser M16)	Riser Modules Zone A Level 0 to 4 (Riser M16)		162	21/01/13		21/01/13	162																																													
99 Zone B																																																						
100	10083979	Zone B Area 1 - Level 4	Zone B Area 1 - Level 4	762m2 / 267m3	156	10/12/12	4w	18/01/13	161	50																																												
101	10161041	Zone B Area 2 - Level 4	Zone B Area 2 - Level 4	793m2 / 277m3	160	07/01/13	4w	01/02/13	163		-3d																																											
102	10083999	Zone B Area 3 - Level 4	Zone B Area 3 - Level 4	717m2 / 251m3	161	16/01/13	4w	12/02/13	165		-3d																																											
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Baselines									
<div>Stage 3 Week 154 baseline</div>									
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New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield MULTIPLEX

Monthly Progress Report

July 2013



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Appendix A - Site Photographs

Appendix B - 6 Week look ahead programme Stage 3

1. EXECUTIVE SUMMARY

1.1 Introduction

The Joint NHS /Brookfield Multiplex Project Team are continuing to work on a range of tasks to ensure that the Project remains on programme i.e.

- Management of Risk and Change
- Cost control and management of NEC3 processes (EW/PMI/CE) for Stage 3
- Close out of defects/snags on the Labs & FM Building and the Energy Centre
- Design and Construction of Stage 3 – Adult and Children's Hospitals
- Construction of the Multi-storey car park 1
- Group 5 equipment - regular meetings ongoing to agree fit out of rooms.

The notes below summarise some of the key points from the detailed reports that are included in the following sections.

1.2 Health and Safety

No RIDDOR or serious injury during the month of June 2013

18 minor injuries reported on site during the month of June 2013

1.3 Programme and Progress

The following programme has been uploaded to Sypro and is attached as an appendix to this report:

- Stage 3 Adult & Children's Hospital Construction Programme 6 week look-ahead programme

Note: Full set of programmes are available on Sypro.

1.4 Design Development - Adult and Children's Hospitals

Good progress has continued within the period in finalising the remaining 1:50 design issues which are now generally limited to those items which are influenced by the procurement of specialist equipment. In order to advance this and support the construction programme the Project Team have engaged both Medical Physics staff and the procurement team to undertake an exercise to identify the Group 5 equipment which will be installed in the first half of 2014. This work involves the preparation of detailed specification and a tender action to allow selection by end September 2013.

Other design work undertaken in the period includes finalisation of floor and wall finishes, sign-off of reflected ceiling plans and development of specialist areas and systems including Aseptic, Renal and Medical Gas. The links to both Neuro and Neo-natal are currently in the detailed design stage, with site surveys undertaken to confirm final details at junctions.

1.4.1 VIE Compound

Brookfield have completed preliminary design work for the new VIE compound located between the new Emergency Department and the PDRU Unit on the south side of Langlands Road. The size and layout has been reviewed by the Board's Project team through the RDD process and has now been submitted for formal Town Planning consent.

1.4.2 Changes to the design

- Adult Hospital - Atrium

Approval has been given for changes to be made to provide the infrastructure to support patient self check-in and patient calling technology. This involves additional data and electrical points to be installed within the adult atria.

- Adult Hospital – Haemato-oncology (Renal – Level 4)

Approval has been given for a detailed design to be prepared to increase the number of beds available for use by haemato-oncology (additional hepa filtration required) on level 4 of the new adult hospital. BMCL have provided an indicative cost for these works and the BMCL and NHS teams are working together to agree a workable design which will not exceed this indicative cost.

1.5 Construction and Logistics

a) Laboratory Building

BMCL have worked with the NHS Team to resolve the issues re. heating and cooling levels in 3 rooms and the level 4 main lab area resulting from a) additional laboratory equipment installed as part of the Abbott Managed Service Contract and b) additional transfer equipment.

The Labs Water Filtration plant has been installed and the plant will be operational once Schneider have undertaken the re-programming works.

Minor defects are continuing to be addressed as they arise.

b) Adult and Children's Hospitals

The construction programme continues to be maintained with on-going adjustment to various elements progress and the development of the technical commissioning process. The concrete frame completed in June 2013 which represented a key stage of the project being achieved on schedule.

The tower cladding works has been supplemented with additional resource and this element is expected to come back into line over the coming period. The unitised cladding is being installed to all 4 ward legs.

The installation of the pods to the adult atrium is nearing completion with minimal additional deflection to the link bridge.

BMCL continue to be in dialogue with their Insurance Loss Adjustor regarding the claim for out of tolerance piles.

The recent fire on site within one of the plantrooms has been investigated by Strathclyde Fire & Rescue who have intimated that the cause of the fire was a stray cigarette. The impact of the fire on areas outwith the Plantroom were minimal and as the fire was extinguished very quickly there was minimal disruption to the works happening out site.

c) Multi-storey Car Park

The construction of the multi-storey car park has commenced with the construction of the ground floor columns and retaining walls and installation of the base tarmac layer well underway.

1.6 Project Supervisor

• New Laboratory Facility

The fault rectification process continues and the NHS, Capita and BMCL are working together to close out the 1 outstanding defect at handover, i.e. Sedum Roof. Other defects discovered since handover are being dealt with as and when they are identified and the occurrence of defects has reduced.

• New Adult and Children's Hospitals

Capita indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements. Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

1.7 Commercial

Target price remains within agreement.

Compensation events which have been concluded are estimated at £20,277,586

Weekly meetings to review Early Warnings, Project Manager Instructions and Compensation Events are ongoing.

2 HEALTH, SAFETY AND ENVIRONMENT

2.1 Safety Summary

Incidents:				Energy centre & Labs:
- Public	0	0	0	0 NCR issued 0 Yellow card issued:
- Site	244	51	36	A&C 10/06/13 Fire detected in Renal Plant room, level 2, zone D at 1pm. A&C evacuated with no injuries. Fire service extinguished blaze. Site operational again at 3pm. 0 NCR issued 10 Yellow cards issued. Astins = 4 Structal = 2 BM Alpha = 1 Dunne = 1 Mercury = 1 Prater = 1 1 Red Cards Issued. Prater = 1
Accident Frequency Rate (AFR) Cumulative	0.08	0.08	0.08	Company Target 0.10
12 Month Rolling AFR	0.06	0.10	0.06	Project Target 2013 (0.32).
Summary of any measures undertaken to improve Site Safety last month:	1) Tool Box Talks to labourers and Contractors 2) Monthly safety focus – Fire. Posters and emails issued. 3) KPI Scorecard continues. 4) Random drug and alcohol screening – 0 undertaken in June: 0 positive and 0 non show 5) Audits / joint EHS Inspections 6) BM Director attendance and safety talk at EHS induction 7) Fire service site discussions and walk through.			
Work activities programmed to take place next month that require additional safety measures	1) Mast climbers continue cladding works – Work at heights (WAH), increased vehicle movements. 2) Peri screen removal – Crane operations, WAH. 3) Working close to the Blue route. 4) Structal unitised panel installation continues. 5) Children's Roof – decking, nets and roofing. Work at height, use of man riding basket. 6) Foundations / concrete multistorey car park works continues – Increased vehicle movements. 7) Tower crane erection multistorey car park works – Crane operations, WAH			

2.2 Fire Incident

Subsequent to the attendance by Strathclyde Fire and Rescue to deal with a fire in the renal plant room, level 2, zone D the cause of the fire has been determined by SFR as being due to the careless disposal of smoking material(s). Both BMCL and Capita carefully assessed the extent of the damage and reported that out-with the actual plantroom the damage was minimal. A process for the reporting of fire incidents between BMCL and the NHS has subsequently been put in place.

3. PROGRAMME AND PROGRESS

3.1 Summary Status of the works - A&C Hospitals and Energy Centre (as at 30th June 2013)

Stage 3 Start Date	28 March 2011
Stage 3 Contract Completion Date	28 February 2015
Stage 3 Contract Duration	205 weeks
Period Remaining	(Week 271 -184) = 87 Weeks

Phase	+/- In period	Comments
Stage 3 Adults & Children's Hospital Construction	0	Maintaining progress this period.
Stage 3 Energy Centre Construction	0	Maintaining progress this period.
Multi-storey Car Park	0	Maintaining progress this period.

3.2 Progress Summary Statement

BMCL advise that there are no matters likely to affect the completion date at this time.

3.3 Weather Record

There have been no adverse weather reported over the reporting period.

4. DESIGN DEVELOPMENT - Stage 3 Adults and Children's Hospitals and Multi-storey car park

4.1 1:50 Drawing Review/RDS Sign-off/Strategy Reviews and RDD

4.1.1 Adult & Children's Hospitals

Good progress has continued within the period in finalising the remaining 1:50 design issues which are now generally limited to those items which are influenced by the procurement of specialist equipment. In order to advance this and support the construction programme the Project Team have engaged both Medical Physics staff and the procurement team to undertake an exercise to identify the Group 5 equipment which will be installed in the first half of 2014. This work involves the preparation of detailed specification and a tender action to allow selection by end September 2013.

Other design work undertaken in the period includes finalisation of floor and wall finishes, sign-off of reflected ceiling plans and development of specialist areas and systems including Aseptic, Renal and Medical Gas. The links to both Neuro and Neo-natal are currently in the detailed design stage.

The NHS Project Team continue to review and return RDD drawings to BMCL and BMCL are continuing to work with the NHS Team to ensure that any late return of drawings has no impact on the construction programme.

The RDD workflow tracker continues to be issued and reviewed on weekly basis, and information flow is keeping pace with procurement requirements.

New samples are continuing to arrive for the Adult & Children's Hospitals with progressive sign-off – no issues encountered thus far.

4.1.2 Multi-storey car park 1

The RDD process for the new multi-storey car park is underway with the setting out plans, elevations, etc all currently under review by the NHS Team. The fortnightly design and construction progress meetings continue and there are no issues to report at this time. .

4.2 Building Control – Warrants and Approvals Update

To date 30 warrant applications have been submitted and of these 25 warrants have subsequently been granted.

BMCL are progressing amendments to the Stage 8 warrant.

The Car Park 1 – Stage 1 – Piling sub-structure building warrant has been granted and the Stage 2 warrant application subsequently submitted. It was anticipated that the stage 3 & 4 applications would be submitted early July 2013.

The table below provides further detail of the warrant applications.

Building Warrant No	Content	Zones	Issued to BCO	Approval by BCO
1	Substructure	Energy Centre	A.20.09.10	Granted 10.10.10
2	Fire Strategy	Energy Centre	A.10.10.10	Granted 10.01.11
6	Site Services Diversions, Drainage, SUDS	Site wide	A.12.10.10	Granted 25.07.11
3	Below Slab Drainage	Energy Centre	A.13.12.10	Granted 08.06.11

8	Fire Strategy	Adults & Children's, all zones	A.25.02.11 All subsequent technical queries responded to. View approvals received. Corridor doors and ironmongery to be determined by BCO. BCO due to issue View letter to SFR following meeting	Granted 16.05.13
7	Substructure	Adults & Children's, all zones	A.14.02.11	Granted 08.06.11
4	Superstructure – concrete and steelwork	Energy Centre	A.04.04.11	Granted
5	Building Envelope, Internal Fitout, Mechanical Ventilation, Fire Alarms etc	Energy Centre	A.17.05.11, Response made to requested queries 17.11.11	Granted 04.05.12
20	Building Envelope, Roof, air tightness, fire stopping etc	Adults & Children's, all zones	Final responses issued for Podium 31.07.12 to BCO SUK Tower Elements above Podium cleared 19.06.12, Podium Outstanding. SBEM calculation issued 23.08.12.	Granted 14.11.12
9	Cores A,B,C,D,E,F &G	Split in to 2 batches – Initially , EF&G issued	A.14.06.11 Responses made to requested queries 21.12.11	Granted 04.05.12
10	Concrete Superstructure, up to level 3	Zone G	A.02.12.11	Granted 04.05.12
11	Concrete Superstructure, up to level 3	Zone D	A.16.12.11	Granted 04.05.12
21	Below Slab Drainage	All zones	A.09.12.11	Granted 04.05.12
22	Above ground drainage	Childrens	17/02/12. BCO feedback rec'd and consultants responses issued	Granted 10.07.12
23	Above ground drainage	Adults (Part)	14/03/12 BCO feedback rec'd and responses issued	Granted 30.07.12
25	Mechanical Ventilation	Zone G, D	17/02/12 Comments awaited Exemplar presentation on design philosophy	Granted 21.11.12

			given to GCC BCO 22.05.12	
			Substitute Drawing PL- 524-024 issued 24.08.12	
24	Internal Fit Out	Levels 0,1,2 and 4 (Adults Part)	Issued – GCC. Queries received 16.08.12, responses issued	
12	Podium Superstructure ZH		Issued – awaiting comments from GCC	Granted 04.05.12
13	Superstructure ZE			Granted 08.06.11
14	Superstructure ZA, ZJ	Podium	Issued 24.08.12 awaiting comments from GCC	Granted 22.11.12
15	Superstructure ZB, ZF	Childrens/Podium	Issued 24.08.12 awaiting comments from GCC	Granted
16	Superstructure ZC	Childrens	Issued to BCO	Granted 11.10.12
35	Mechanical Ventilation	ZJ, Plantrooms 32 &33	Issued to BCO	
30	Mechanical Ventilation	ZA, B, C +Plantroom 22 & Tower 4-11	Issued 03.10.12	Granted 22.11.12
31	Mechanical Ventilation within Tower	ZK,H,F,J	Issued 03.10.12	Granted 26.10.12
47	ZK Atrium Link Structure	Adults Zone K	Issued complete with SER 17.07.12	Granted 17.07.12
29	Internal Fitout	PG 4,5,6	Initial Issue 25.02.13	
36	Internal Fitout	PG 7,8,9	Initial Issue 25.02.13	
38	Internal Fitout	PG 10, 11, 12	Initial Issue 12.03.13	
33	Fire Alarms, emergency lighting, dry and sprinkler risers	ZD	Issued 11/06/13	
18	Helipad Structure	ZE	Currently being prepared	
17	Structural steel frame to rooftop plantrooms	All zones	Currently being prepared	

5. Construction and Logistics

5.1 Labs Commissioning

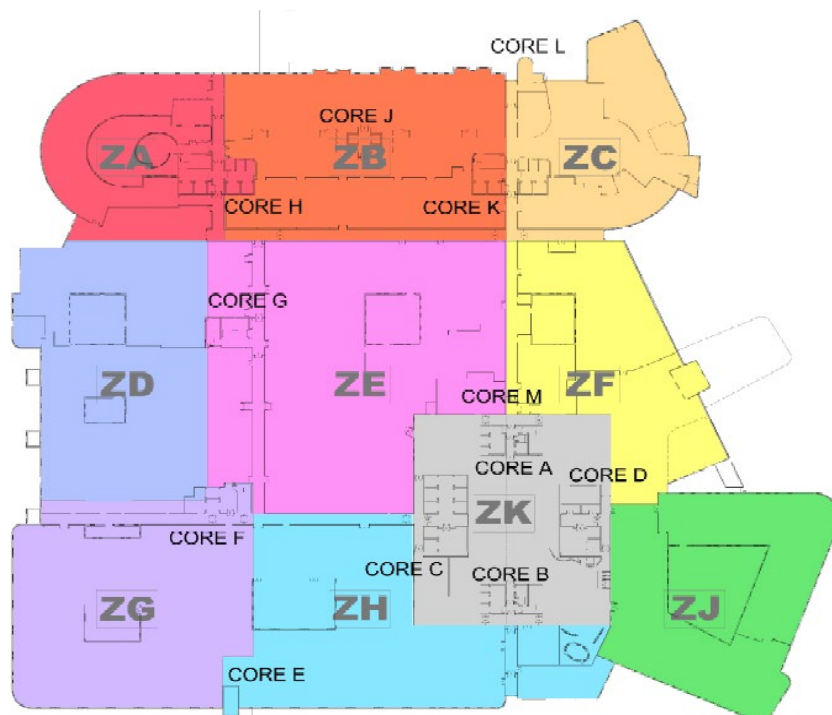
a) Cooling Levels

BMCL have developed plans to adapt the cooling in 3 areas and this work will be undertaken in February 2013.

b) Laboratory Water Filtration Plant

The installation of the additional water filtration plant for the new laboratory facility is nearing completion with the Schneider re-programming works due to be complete during late July 2013.

5.2 Stage 3 Works (as at 30th June 2013)



Zoning Plan and Core References

5.2.1 Main Concrete Frame

Main Frame was completed on the 20th of June

Completion of upstands and infills ongoing with the concrete slab on the ZE plant room to commence after the completion of the metal decking to this area.

5.2.2 Adult Atrium

The Bridge Pod installation has started.

Corner infills to Z H and J have started between levels 1 and 4

Link bridge glass and cladding substantially completed.

Metal cladding to the cores is nearing completion with mast-climbers being moved to corner infill positions.

Windows and glazing continue to be installed in the stair and lift cores.

5.2.3 Cladding – Stone rainscreen cladding to Zone J has commenced.

5.2.4 Louver Vents –No Issues to report

5.2.5 Turret Vents – Work ongoing to the childrens with the adults substantially completed.

5.2.6 Windows – No Issues to report working in line with the programme.

5.2.7 Render – No Issues to report working in line with the programme.

5.2.8 Podium Curtain walling - No Issues to report.

5.2.9 Roofing - Hot melt no issues to report.

5.2.10 Unitised Cladding – As last month's report, Work is ongoing on all 4 wings of the tower. Crane strategy is to install the top 2 floors using the tower cranes allowing internal fitout to continue without the loading out of the panels on the floors, and increasing rate of panel installation.

5.2.11 Fit Out / Mechanical Installation

- **Adult Podium**

Across the Podium the fit out continues to work in line with the programme.

Areas are continuing to be inspected by Capita and QA Packs issues to NA as and when available.

- **Childrens**

Across the Childrens, the fit out continues to work in line with the programme.

Steelwork Installation is substantially completed in all areas.

Atrium Roof Steelwork completed in zone A Roofing and guttering works around the ETFE steelwork have been advanced to allow the netting and ETFE Pillows to be installed. Zone B the steelwork has been installed and the netting ongoing

ETFE pillows rails have been installed with the actual pillows go in w/c 8 July 13.

- **Tower**

2nd stage fit out Areas started in the following areas:-

4H	5H	6H	7H	8H		
4E	5E	6E	7E			
4J	5J					
4F	5F					

M&E Modules are being installed as follows:-

H Completed	E10	J9	F9
-------------	-----	----	----

Second fix Partitions are completed in ZH4 and substantially completed in ZE4.

Plantroom steelwork will ZH Completed with the netting and roofing now started.

Plantroom ZE steelwork Completed with Netting decking and studding starting wc 8 July 13

5.2.12 Lifts – installation continues and there are no issues to report.

5.3 VIE

Works to construct the VIE facility will start in early autumn 2013 and will take around 6 months to complete. The facility will comprise a manifold room for backup supplies of nitrous oxide and 4 and 7 bar air. A separate storage room will also

be provided for small size oxygen cylinders. Adjacent will be the main VIE oxygen storage cylinders that will eventually connect into the main site wide circuit providing two separate VIE installations to serve the site post 2015. There will also be an external empty cylinder store with lorry parking adjacent for supply and uplift of empty cylinders.

The detail of the phasing of the works will be planned in detail to deliver minimum disruption to public transport through the site and maintenance of hospital services.

5.4 Multi-storey car park 1

The piling works to car park 1 commenced on 7th May 2013 and these works were completed at the end of June. Substructure works commenced on site on 3rd June and will be ongoing well into July. The footprint of the car park is now becoming visible with the erection of the first columns and retaining wall and the installation of the base course layer of tarmac.

5.5 General

The number of operatives on site is circa 1400 per day.

6. PROJECT SUPERVISOR

6.1 New Adult and Children's Hospitals

Visits to the site during June 2013 indicated that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements. Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner. Together with Brookfield, Capita carried out quality and compliance inspections on Level 1 Area 1-523. The areas inspected were to a good standard and the defects captured by Brookfield were generally of a minor nature. Capita did however identify a few defects which Brookfield recorded on to their IDMS system. Brookfield continues to undertake their Quality Assurance systems on site with inspection and checklist documentation available for the ongoing construction activities. Over the period, Capita have closely liaised with Brookfield and witnessed 85 point check to the partitions on Level 0 Area 0-528, Level 1 Area 1-507 in room OPD-028, Level 2 area 527 and Level 3, plant room 33, HV/LV rooms subs 4 and 4A. There were no failures in the construction of the partition on Level 0 Area 0-528. Level 1 in room OPD-028 had missing Insulation behind a partition. Partitions were opened up in two other rooms and one of these had a piece of insulation missing. Astins carried out additional 85 point quality inspections on Level 1 to monitor the quality of the construction of their partitions. Capita witnessed partitions being opened up in an additional two rooms with no failures found. There were no failures in the construction of the partition on Level 2-527. Capita witnessed the 85 point check in plant room 33, HV/LV rooms subs 4 and 4A on Level 3. The check was discontinued when it was discovered that there was no sealant applied between the soffit and the Headtrack. Civil and structural works continue to be to a generally high quality standard. In respect of the piling records on ZUTEC, replacement of the current construction drawings by 'as built' drawings is still awaited. Piling is completed in the car park area and from a quality perspective appears to be progressing satisfactorily. Full test results are awaited. Foundation works have commenced and quality to date appears satisfactory. All floors to the Atrium Bridge have now been cast and deflection checks to date have been further examined in respect of datum issues. A record of deflections has been received prior to installation of the 'pods' and this has been accepted by the structural designers. Remedial work to intumescent paintwork has been ongoing and an independent compliance certificate received. Concrete slab work to all sections of the ACH has now been effectively completed and a topping out ceremony was held on 24th June to mark this. The concreting work appeared to be of very high quality throughout.

Steelwork erection has continued to the roof of the Children's Hospital in Zones A and B. Communications have been raised with Brookfield and are listed on the following pages. Steelwork erection has also continued on the roof of the SE arm (Zone G) and also on the SW arm (Zone D). A couple of communications in respect of this steelwork have been raised. External blockwork has continued in Zones D and G on the south and east faces, and from a structural perspective generally appears to be satisfactory. The sample AHU21 in plant room PR21 was inspected and comments provided for action by Mercury. It was agreed that this unit will form the standard for all other AHU's, therefore any issues are to be fully closed out to ensure quality installation. The M&E installation quality is being maintained to a good standard and we are satisfied that these are being installed to a compliant standard. The M&E installations are progressing on all levels up to Level 9 and range from first fix module installation to completed and tested areas. We have carried out a survey of the fire damaged area adjacent to Plant room 21. The installations in the Energy Centre are well advanced with the advanced A-side systems commissioned and handed over. Commissioning programmes for the B Side have been presented and significant commissioning will be taking place from June to December 2013. We are continuing to work with Brookfield during our inspections highlighting any items that have raised concern. Items identified in this manner are generally being addressed by the site team in advance of any defect notice being raised. With respect to the potential access issues to high level sprinkler heads raised in Supervisor's Communication General Matters / Other Instructions (CI 13.1) No 75. Brookfield is reviewing potential access issues, in an effort to find a solution but this has not been presented for review. Following this Supervisor's Communications and the Mercury responses, Brookfield has confirmed that Darren Pike has arranged to meet and discuss these issues with Mercury. We have had confirmation that Darren will give an initial response at the Hospital Construction Progress Meeting on Monday 8th July. In general terms we are satisfied that the installations continue to be installed to a compliant standard, and are of a good quality. However Capita have noted that certain items this month that have raised concern and these have been raised with the Contractor.

7. COMMERCIAL

7.1 Budget V Cost Plan – TP/MP

Adult and Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on Target Price.

There has been 47 Nr Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties.

Contract Award Target Price	£575,111,382.00
Compensation Event Notices Issued - formally closed out	-£1,152,045.00
Compensation Event Notices Issued - awaiting close out	-
Current Estimated Contract Target Price Stage 1 – Stage 3A	£573,959,337.00
Car Park 1 Compensation Event	£11,429,631.00
Inflation Compensation Event	£10,000,000.00
Current Estimated Overall Contract Target Price	£595,388,968.00

7.2 Value Engineering/Opportunities

Value engineering opportunities are minimal as the design and procurement progresses through the final stages.

7.3 Defined Cost Audits

Sample audits are undertaken as part of the Payment Assessment Process. All information requested continues to be provided timeously. Issues are dealt with on an ongoing basis and closed out.

7.3.1 Piling

Discussions between BMCL and their Insurers are ongoing. Once BMCL have been advised the way forward by their Insurers they will inform the NHS Commercial Reps.

7.4 Early Warning Notices

A summary of all Early Warning Notifications (EWNs), Project Managers Instructions (PMIs) and Compensation Event Notices (CENs) activity as at 25th July 2013 is detailed below:

- Brookfield Multiplex have issued 136 EWNs to the Board, 134 have been closed out and 2 are currently open.
- The Board have issued 48 EWNs to Brookfield Multiplex, 47 have been closed out and 1 is currently open.
- The Board have issued 240 PMIs to Brookfield Multiplex, 229 have been actioned and closed and 11 are currently open.
- 47 CENs have been concluded.

Weekly meetings to review EWNs, PMIs and CENs are ongoing.


Full details of all EWNs, PMIs and CE can be found in the EW Tracker, available from the Board on request.

7.5 Cashflow

The cashflow for 2013/14 is currently forecast at around £189m excluding VAT.

7.6 Monthly Payments

Assessment Nr 42 was processed and issued on 11th July 2013 as follows:

PAYMENT CERTIFICATE NR:			
42			
ASSESSMENT OF AMOUNT DUE (Cl. 51) OPTION C (TARGET CONTRACT)			
New South Glasgow Hospitals & Laboratory Project		Brookfield Multiplex Europe Ltd	
50.1 Assessment Date:	02/07/2013	Invoice Date:	16/07/2013
		51.2 Payment due by:	30/07/2013
Procedure: The Contractor submits his invoice on receipt of this Payment Certificate			
To:	Contractor's Agent	John Ballantyne	
	Contractor	Brookfield Multiplex Europe Ltd	
	Project Office Address	23 Hanover Square	
		London	
		W1S 1JB	
PROJECT MANAGER'S			
ASSESSMENT OF AMOUNT DUE (NEC3 Clause 11.2(29))			
<i>Contractor and Subcontractor Works</i>			
PSCP	Stage 1	£	74,453,614.00
	Stage 2	£	17,842,011.00
	Stage 3	£	312,908,253.00
	Stage 3A	£	0.00
	Car Park 1	£	2,705,353.00
	PSCP Work Done to Date	£	407,909,231.00
	Deduct retention free amount	£	0.00
	Sub total	£	407,909,231.00
	Retention	£	-1,861,340.00
	Sub total	£	406,047,891.00
	Deduct previous payments	£	384,466,433.00
	Sub total	£	21,581,458.00
Add VAT %	20.00%	on £ 21581458	£ 4,316,291.60
	Amount due	£	25,897,749.60
Certified:		Project Manager (NHS)	Date: 11th July 2013
Distribution:	The Employer	Other	
	Contractor	Alan McCubbin/Tony Cocozza	Employer plus copy of forecast at completion
	Project Manager (NHS)	Robert Stewart	Employer payment office
		Currie & Brown	

8. COMMISSIONING

8.1 New Adult and Children's Hospitals

First stage zone inspections have commenced, and will be ongoing through to the final commissioning stage in 3rd calendar quarter of 2014. There are 179 zones throughout the project and each will have an initial inspection as currently scheduled by BMCE and a final inspection in 2014.

The first stage inspections will predominantly focus on builders work and finishes as few of the M&E systems are operational at present. The final inspections will be post run up of the building services installation and will verify the finished building.

Below is an extract of the Board's first stage inspection schedule is included below. This schedule identifies the Board's representative or lead for each zone, agreed dates for the Supervisor's joint inspection and Group 5 imaging equipment install dates, note these dates are still under review.

LEVEL	ZONE		NHS ZONE LEADS	DEPARTMENT	CAPITA INSP	GROUP 5	GROUP 5 INSTALL DATE	GROUP 5 DESCRIPTION	New or Transfer
1	G	1-527	PM	Critical Care	19.04.13	None			
1	G	1-525	PM	Critical Care	21.05.13	None			
1	G	1-528	PM	Critical Care	23.05.13	None			
1	G	1-526	PM	Critical Care	24.05.13	None			
1	D	1-523	PM	Critical Care	12.06.13	None			
1	D	1-522	PM	Coronary Care	04.07.13	None			
1	D	1-524	PM	Critical Care	19.06.13	None			
2	G	2-524	FW/FM	Theatres	21.08.13	None			
2	G	2-526	FW/FM	Theatres	21.10.13	None			
1	D	1-521	PM	Coronary Care	04.07.13	None			
0	G	0-528	HG/MM	Acute Assessment	25.07.13	None			
0	G	0-526	HG/MM	Acute Assessment	05.08.13	None			
2	D/E	2-522a	FW/FM	Theatres	09.10.13	None			
0	G	0-525	HG/MM	Acute Assessment	21.08.13	None			
2	D/E	2-520a	FW/FM	Theatres	09.10.13	None			

A process for zone inspection has been established with BMCE and is initiated by the issue of the BMCE 'Internal Fit-out As Built Inspection' folder to the Board's Supervisor. This folder records inspections/sign-off of relevant packages by the BMCE Floor Manager in conjunction with the package sub-contractors. Elements included in the inspections are;

- Services above ceilings
- Services in walls
- Ceilings
- Partitions/walls
- Wall protection
- Internal doors/screens/vision panels/tertiary glazing
- Flooring
- FF&E
- Gp1 equipment and fittings
- IPS units
- Decoration
- Curtain tracks
- Gp 2 installed kit

This document also records any snags or incomplete works, these along with any items raised by the Supervisor will require to be auctioned before the final inspection.


Within the timescale of this report, eight zones have received inspections by the Board and in the main only minor snagging items have been identified.

9. ENABLING WORKS

HUGH PROVIDING

10. APPENDICES (TO BE ADDED TO)

Appendix A - Site Photographs

Appendix B – A&C Hospitals - 6 week lookahead programme

New South Glasgow Hospitals and Laboratory Project

NHS Greater Glasgow & Clyde

and

Brookfield MULTIPLEX

Monthly Progress Report

September 2013



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3 Programme and Progress

4 Design Development

5 Construction and Logistics

6 Project Supervisor

7 Commercial

8 Commissioning

9 Enabling Works

10 Appendices

Appendix A - Site Photographs

Appendix B - 6 Week look ahead programme Stage 3

1. EXECUTIVE SUMMARY

1.1 Introduction

The Joint NHS /Brookfield Multiplex Project Team are continuing to work on a range of tasks to ensure that the Project remains on programme i.e.

- Management of Risk and Change
- Cost control and management of NEC3 processes (EW/PMI/CE) for Stage 3
- Close out of defects/snags on the Labs & FM Building and the Energy Centre
- Design and Construction of Stage 3 – Adult and Children's Hospitals
- Construction of the Multi-storey car park 1
- Group 5 equipment - regular meetings ongoing to agree fit out of rooms.

The notes below summarise some of the key points from the detailed reports that are included in the following sections.

1.2 Health and Safety

No RIDDOR or serious injury during the month of August 2013

20 minor injuries reported on site during the month of June 2013

1.3 Programme and Progress

The following programme has been uploaded to Sypro and is attached as an appendix to this report:

- Stage 3 Adult & Children's Hospital Construction Programme 6 week look-ahead programme

Note: Full set of programmes are available on Sypro.

1.4 Design Development - Adult and Children's Hospitals

Good progress has continued within the period in finalising the remaining 1:50 design issues which are now generally limited to those items which are influenced by the procurement of specialist equipment. The NHS tenders for the Group 5 imaging equipment have been received and are currently being evaluated to allow selection of the preferred suppliers by end September 2013.

Other design work undertaken in the period includes the sign-off of further reflected ceiling plans, fixtures and fittings plans internal finishes plans. The design for the links to both Neuro and Neo-natal have been concluded and the link bridge for Neuro is now in production with installation planned to take place over the 20th/21st October 2013.

1.4.1 VIE Compound

The NHS Team have reviewed and returned the final detailed drawings to BMCL with a number of minor comments for action. BMCL will liaise with the NHS Team once the design is concluded to agree the construction programme and related logistics. The application for planning approval has been submitted to Glasgow City Council and approval was confirmed on 6th September 2013.

1.4.2 Changes to the design

- Adult Hospital – Haemato-oncology (Renal – Level 4)

The NHS Team has confirmed to BMCL the changes required to accommodate additional haemato-oncology activity in the adult hospital. The detailed design for this area is currently being provided to the NHS Team for sign-off and BMCL are anticipated to confirm the cost for the design by 20th September 2013.

1.5 Construction and Logistics

a) Laboratory Building

BMCL continue to work with the NHS Team to resolve and close out snagging and defect issues. There are very few issues remaining to be closed out.

b) Adult and Children's Hospitals

The construction programme continues to be maintained with on-going adjustment to some elements in order to maintain progress and the development of the technical commissioning process.

Over 2000 rooms have been or are currently being decorated with over 3500 rooms now fully formed and boarded.

The installation of the pods to the atrium link bridge have been completed which has allowed the internal fit out of the atrium bridge to be commenced.

Cladding to the 4 cores of the Adult Hospital is completed with the exception of the high level cladding forming the plant room walls which is nearing completion. The windows and glazing to these cores has also been completed.

The external cladding and curtain walling to the Adult Hospital podium and Children's Hospital are progressing on programme. The render works to the west elevation of the Children's Hospital are now progressing along with the external works in this area.

The ETFE roof steelwork on the Adult Hospital was commenced at the beginning of the September and will continue to be progressed over the next 2 months. The infill steel to the ETFE roof on the Children's Hospital has been completed which has allowed the nets to be installed prior to completing the installation of roof pillows.

c) Multi-storey Car Park 1

The car park construction progress continues to be on programme with the first 2 suspended slab sections at level 1 having been poured, work underway to prepare for the level 2 suspended slab and core 2 having been erected up to level 5. All of the tower cranes have been erected and are in operation. The third section of tarmac base course was completed at the beginning of September 2013.

1.6 Project Supervisor

• New Laboratory Facility

The fault rectification process continues and the NHS, Capita and BMCL are working together to close out the 1 outstanding defect at handover, i.e. Sedum Roof. Other defects discovered since handover are being dealt with, as and when they are identified and the occurrence of defects has reduced, approximately 7 items remain ongoing.

• New Adult and Children's Hospitals

Capita indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements. Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

Capita are continuing to work with Brookfield during their inspections highlighting any items that have raised concern. Items identified in this manner are generally being addressed by the site team in advance of any defect notice being raised.

In general terms Capita are satisfied that the installations continue to be installed to a compliant standard, and are of a good quality.

• Multi-storey Car Park 1

Civil and structural works continue to be to a generally high quality standard. Piling is completed in the car park area but full test results are still awaited by Capita for review. Foundation works are nearing completion and quality to date appears satisfactory. A varied number of deck sections have now been cast at levels 1 & 2.

1.7 Commercial (DR updating)

Target price remains within agreement.

Compensation events which have been concluded are estimated at £20,277,586

Weekly meetings to review Early Warnings, Project Manager Instructions and Compensation Events are ongoing.

2 HEALTH, SAFETY AND ENVIRONMENT

2.1 Safety Summary

	Total Number			Comment and Details
	To Date	Previous Month	This Month	
First Aid:				Energy Centre = 0 injury A&C = 20 Injuries + 0 Ill health. 3 leg injuries 5 eye injuries 7 finger injuries 1 head injury 4 arm injuries
- Treatments	346	30	20	
- Referrals	12	4	0	
Days Lost due to Injuries:				
- Brookfield Construction UK Ltd	2	0	0	
- Subcontractor	77	10	0	
Number of men on site (going through turnstile)		1385	1324	
Total number on site (including office, welfare and visitors)		1485	1424	
OH & S Plans / WMS:				42 - A status 23 - B status 13 - C status
- Received	1645	90	78	
- Reviewed	1546	90	78	
- Approved	1121	77	65	
Work cover:				
- Inspector visits	5	0	0	
- Fines / Directions	0	0	0	
Incidents:				Energy centre & Labs: 0 NCR issued 0 Yellow card issued: A&C 0 NCR issued 14 Yellow cards issued. Prater = 5 SUK = 4 Dunne = 2 JD Pierce = 2 BMCE = 1 1 Red Card Issued. SUK = 1
- Public	0	0	0	
- Site	327	31	52	
Accident Frequency Rate (AFR) Cumulative	0.07	0.07	0.07	Company Target 0.10
12 Month Rolling AFR	0.03	0.06	0.03	Project Target 2013 (0.32).

Summary of any measures undertaken to improve Site Safety last month:	<ol style="list-style-type: none"> 1) Tool Box Talks to labourers and Contractors 2) Monthly safety focus – Tethering tools. Posters and emails issued. 3) KPI Scorecard continues. Majority of contractors achieving 90 to 100%. 4) Random drug and alcohol screening – 3 undertaken in August: 1 positive and 1 non show 5) Audits / joint EHS Inspections 6) BM Director Attendance and safety talk at EHS induction. 7) Fire awareness training for 10 attendees. 8) Site glove audit by Globus gloves.
Work activities programmed to take place next month that require additional safety measures	<ol style="list-style-type: none"> 1) Mast climbers continue cladding works – Work at heights (WAH), increased vehicle movements. 2) Working close to the Blue route. 3) Structural unitised panel installation continues. 4) Children's roof and SFS works. Fit out. Work at height. 5) Jumping of cores and slab pores multistorey car park – Increased vehicle movements, work at height. 6) JD Pierce New bridge construction – Work at Height 7) Adult Atrium roof steelwork – Work at height, lifting operations 8) Helipad Steelwork – Work at height, lifting operations.

3. PROGRAMME AND PROGRESS

3.1 Summary Status of the works - A&C Hospitals and Energy Centre (as at 1st September 2013)

Stage 3 Start Date	28 March 2011
Stage 3 Contract Completion Date	28 February 2015
Stage 3 Contract Duration	205 weeks
Period Remaining	78 weeks

Phase	+/- In period	Comments
Stage 3 Adults & Children's Hospital Construction	0	Maintaining progress this period.
Stage 3 Energy Centre Construction	0	Maintaining progress this period.
Multi-storey Car Park	0	Substructure maintaining progress this period.

3.2 Progress Summary Statement

BMCL advise that there are no matters likely to affect the completion date at this time.

3.3 Weather Record

There has been no adverse weather reported over the reporting period.

4. DESIGN DEVELOPMENT - Stage 3 Adults and Children's Hospitals and Multi-storey car park

4.1 1:50 Drawing Review/RDS Sign-off/Strategy Reviews and RDD

4.1.1 Adult & Children's Hospitals

Good progress has continued within the period in finalising the remaining 1:50 design issues which are now generally limited to those items which are influenced by the procurement of specialist equipment. The NHS tenders for the Group 5 imaging equipment have been received and are currently being evaluated to allow selection of the preferred suppliers by end September 2013.

Other design work undertaken in the period includes the sign-off of further reflected ceiling plans, fixtures and fittings plans internal finishes plans. The design for the links to both Neuro and Neo-natal have been concluded and the link bridges are now in production with the Neuro link bridge planned to be installed over the 20th/21st October 2013.

BMCL undertook a review of all the NHS RDD returns to ensure that there were no C-status drawings which were still to be concluded and this exercise confirmed that BMCL have no C-status drawings.

4.1.2 Multi-storey car park 1

Progress with the RDD drawing review process is well advanced, substructure, drainage, superstructure, envelope and M&E packages have been reviewed by the Board and returned. Review of samples has commenced this will pick up as more finishes and fittings packages are let, sample of external envelope materials have been reviewed by the Board and signed off.

4.1.3 VIE

Results received from the SI boreholes have shown that piled foundations are required for the compound and tank base. BMCL are now procuring this package and reviewing options of piling techniques for most suitable and most cost effective solution. Currently a start date cannot be ascertained for this work. In the interim BMCL will prepare a phasing layout and hoarding proposal for review by the Board and FM. Recent design drawings have been issued for ground works and envelope tenders. Tenders will be returned in September.

4.2 Building Control – Warrants and Approvals Update

a) Adult & Children's Hospital

Building Warrant No	Content	Zones	Issued to BCO	Approval by BCO
1	Substructure	Energy Centre	20.09.10	Granted 10.10.10
2	Fire Strategy	Energy Centre	10.10.10	Granted 10.01.11
3	Below Slab Drainage	Energy Centre	13.12.10	Granted 08.06.11
4	Superstructure – concrete and steelwork	Energy Centre	04.04.11	Granted
5	Building Envelope, Internal Fitout, Mechanical Ventilation, Fire Alarms etc	Energy Centre	17.05.11	Granted 04.05.12
6	Site Services Diversions, Drainage, SUDS	Site wide	12.10.10	Granted 25.07.11
7	Substructure	Adults & Children's, all zones	14.02.11	Granted 08.06.11
8	Fire Strategy	Adults & Children's, all zones	25.02.11	Granted 16.05.13
9	Cores A,B,C,D,E,F & G	Split in to 2 batches – Initially , EF&G issued	14.06.11	Granted 04.05.12
10	Concrete Superstructure, up to level 3	Zone G	02.12.11	Granted 04.05.12
11	Concrete Superstructure, up to level 3	Zone D	16.12.11	Granted 04.05.12

12	Podium Superstructure ZH		24.04.12	Granted 04.05.12
13	Superstructure ZE		24.05.12	Granted 08.06.11
14	Superstructure ZA, ZJ	Podium	24.08.12	Granted 22.11.12
15	Superstructure ZB, ZF	Childrens/Podium	24.08.12	Granted 26.10.12
16	Superstructure ZC	Childrens	05.09.12	Granted 11.10.12
17	Structural Steel work Level 12 plantrooms		21.08.13	
18	Helipad Structure	ZE	15.07.13	Granted 29.08.13
20	Building Envelope, Roof, air tightness, fire stopping etc	Adults & Children's, all zones	12.08.12	Granted 14.11.12
21	Below Slab Drainage	All zones	09.12.11	Granted 04.05.12
22	Above ground drainage	Children's	17/02/12	Granted 10.07.12
23	Above ground drainage	Adults (Part)	14/03/12	Granted 30.07.12
24	Internal Fit Out	Levels 0,1,2 and 4 (Adults Part)	Issued – GCC. Queries received 16.08.12, responses issued. NA to respond to final 2 items. Drawings Issued 27.08.13	
25	Mechanical Ventilation	Zone G, D	17/02/12	Granted 21.11.12
27	Mechanical Ventilation	ZE,ZH,ZF, Plant 31	15.07.13	
29	Internal Fit Out	PG 4, 5 &6	Held back pending Stage 24 being granted	
30	Mechanical Ventilation	ZA, B, C +Plantroom 22 & Tower 4-11	03.10.12	Granted 22.11.12
31	Mechanical Ventilation within Tower	ZK,H,F,J	03.10.12	Granted 26.10.12
32	Fire Alarms, Emc Lighting +Dry/Sprinkler Risers	ZG	Issued to BCO	
33	Fire Alarms, Emc Lighting +Dry/Sprinkler Risers	ZD	11.06.13	Granted
35	Mechanical Ventilation	ZJ, Plantrooms 32 &33	23.08.12	Granted
36	Internal Fitout	PG 7,8,9	25.02.13	
37	Fire Alarms, Emc Lighting +Dry/Sprinkler Risers	ZE	15.07.13	Granted 23.07.13
38	Internal Fitout	PG 10, 11, 12	12.03.13	
39	Fire Alarms, Emc Lighting +Dry/Sprinkler Risers	ZA,ZJ,ZB,ZC	19.07.13	
40	Internal Fitout PG 13 &14	Numerous Zones	25.07.13	
41	Fire Alarms, Emc Lighting +Dry/Sprinkler Risers	ZK,ZE,ZH,ZF	25.07.13	
42	Internal Fitout PG15 & 16	Numerous Zones	25.07.13	
47	ZK Atrium Link Structure	Adults Zone K	17.07.12	Granted 17.07.12

b) Multi-storey car park 1

Building Warrant No	Content	Zones	Issued to BCO	Approval by BCO
1	Substructure	Car Park	Issued	Approved
2	Fire Strategy	Car Park	Issued BCO review queries responded to by Consultants	
3	Site Services Diversions, Drainage, SUDS	Car Park	Issued	
4	Superstructure	Car Park		
5	M&E	Car Park		

5. Construction and Logistics

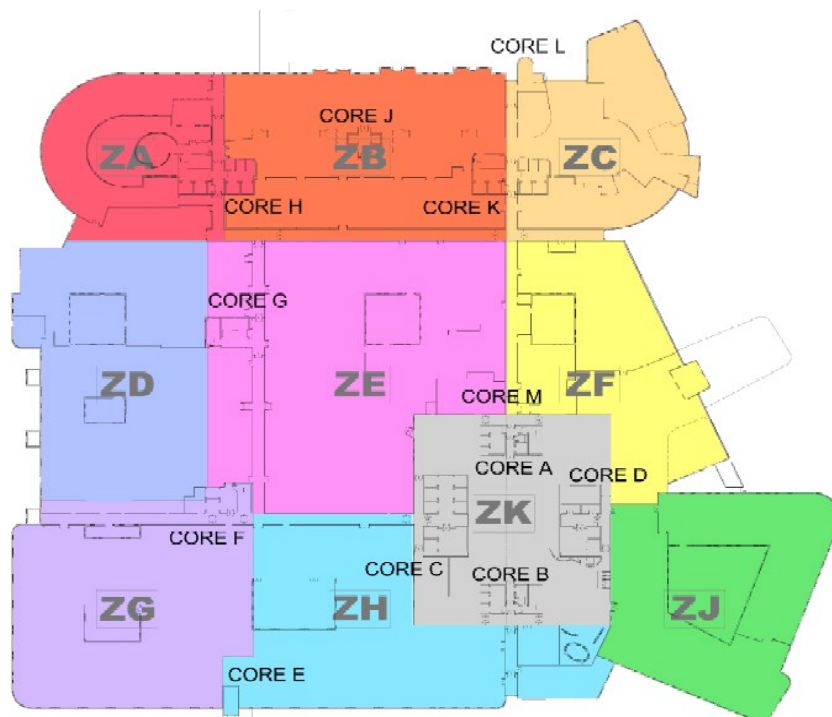
5.1 Labs Commissioning

No issues to report. BMCL continue to work with the NHS to close out snags. BMCL are currently progressing the following works in the Laboratory:

- Mortuary viewing window seals replacement complete.
- Mortuary access control panel replacement.
- Water filtration repair works complete.
- Bicycle rack repair works.
- Replacement of corridor door cold smoke seals.
- Roof leaks.
- Store room fan replacement.
- Mechanical lock failures.
- Tank room water leak.

BMCL propose to undertake the final painting of cracks in plasterboard at end of defects period.

5.2 Stage 3 Works (as at 1st September 2013)



Zoning Plan and Core References

5.2.1 General Items

Level 13 Metal Deck and concrete completed. Heli-pad steelwork installation is ongoing and is planned for completion for the end of September. The scaffolding crash deck will be installed to allow the Heli-deck to be installed starting Mid October.

Level 12 Unitised glazing has been completed in ZH with ZE now substantially completed.

Over 2000 rooms have been or are currently being decorated with over 3500 rooms now fully formed and boarded.

5.2.2 Adult Atrium

Internal fit out is now progressing to the Atrium Link Bridge

Shaft wall to the South and North Atrium walls have been installed with temporary protection in place. The metal stud partitions have been erected in the corners of E/H and progressing in J with the internal board being fixed as the tower fit out progresses.

Cladding to the 4 cores is completed with the high level cladding forming the plant room walls substantially completed. Windows and glazing to the cores are complete.

ETFE Roof Steelwork has commenced w/c 2 September and will continue to progress over the next 8 weeks.

5.2.3 External Walling/Cladding Adult Podium & Childrens

5.2.4 Cladding – Level 12 roofing and cladding works are progressing on programme allowing the fire rating works to commence ahead of the M&E installation.

5.2.5 Louver Vents –No Issues to report

5.2.6 Turret Vents – No Issues to report.

5.2.7 Windows – No Issues to report, working in line with the programme.

5.2.8 Render – The focus now is on the west elevation on the children's hospital now that this area is no longer being used as a loading zone for the children's roof works. This will be progressed along with the ZC children's external works.

5.2.9 Podium Curtain walling - No Issues to report.

5.2.10 Roofing – The Sarna works have been substantially completed in Zone A and B of the children's hospital. Level 12 metal roofing and liquid plastics roofs are progressing well with ZE/H/J all well advanced affording watertight environments for the floors below.

5.2.11 Unitised Cladding –

ZH Completed.

ZE Substantially Completed

ZJ Working on level 10 (Level 12 to be completed by early October)

ZF Working on level 9/10 (Level 12 to be completed by early October)

5.2.12 Fit Out / Mechanical Installation

• Adult Podium

Across the Podium the fit out continues to work in line with the programme.

Specialist areas requiring screed up-fill are now on hold awaiting completion of the Group 5 information.

• Children's

The main atrium works are progressing with the access scaffolding now installed to allow fit out to progress. The ETFE roof have now had the infill steel where TC 2 was in place and nets installed ready to receive the "pillows"

Main fitout continues to progress well with screeding and ceilings/doorframes now being installed to the 1st zones within the childrens hospital.

• Tower

Internal fit out is on going on all floors of the tower. Changes to the fit out elements have been made to adjust for the affects of time lost due to being winded off during the unitised glass installation. Sorter durations for 2nd fix M&E have been achieved and this has been incorporated in to the construction programme going forward.

1st fix Modules have been substantially completed

5.2.13 Lifts - Lift installation no issues to report.

5.2.14 Commissioning - The early stages of the project in zones G/D level G/1 the Commissioning has been on going for some time in line with the Programme. Indications are that the system performance is being met.

5.3 External Works

Final section of road surfacing base course has been completed to the Boulevard road adjacent to the Labs/VIE crossing point. Security gates will be reinstated to two road positions.

Scottish Water (SW) have cleared the foul drain in Hardgate Road thus enabling BMCL to make the Children's foul connection into this run via the fire road drainline. Whilst SW were clearing, the Board arranged and completed the removal of the 3no. oil tanks and associated bund adjacent to the JBG offices.

Energy centre gates and fencing have been completed, there remains a section of fence to complete at Govan Road, this work will be carried out in conjunction with a section of existing wall removal.

Various sections of drainage and service ducting will be completed as access becomes available post elevation completion.

5.4 Energy Centre

- MTHW system completely filled and vented from EC to A&C Valve room main header.
- MTHW A-Side filled and vented. B-Side filled and vented, leg A being flushed.
- Chilled water filled and vented leg A flushed and treated.
- Initial Burner Installation and set-up complete.
- Progressing towards 'heat on' as per contract programme
- CHP delivery for B side ground floor level has now been confirmed as 28/01/14. These are not required for 'heat on' to Stage 3. However, ground floor cladding will now be complete for 2013.
- Floor paint to remaining areas will all be carried out on completion of CHP's.

5.5 Car Park 1 Progress

Generally progress has been good with the first 2no. suspended slabs poured according to programme and Core 2 up to level 5.

All 3no. Tower Cranes are now erected and in operation.

Although the third section of tarmac base course will be completed w/c 02.09.13 first floor slab and Core 1 will be delayed by design and procurement of support angles for the movement joint detail at the interface with the sub-station.

However, at this time we anticipate regaining some if not all of this delay by completion of the frame, and still hand over on 14.04.13.

Steelwork erection to Core 2 is programmed to commence 25.09.13.

5.6 Link Bridges

Steelwork to the 3no sections of the Neurology link bridge is complete with the carcasses assembled on the site north haul road.

Cladding to these sections will commence on 02.09.13.

Several meetings have been held with JD Pierce to discuss transport and installation of the bridge on Sunday 27.10.13 and a lifting plan etc. will be produced by 23.09.13.

A meeting has been arranged for Wednesday 18 September 2013 BM/NHS Board/FM to discuss road closure actions for 27.10.13 (one day). This meeting will also include the dismantle of tower cranes TC10 and TC8 and the interface with BAM construction/traffic diversion, this work is planned for 13-20th October 2013.

It has been confirmed that a sample of material taken from behind the Neuro external cladding does not contain asbestos. BMCL can now continue with more invasive inspection of the bridge connection zone.

The final 5m section of bridge that links to the Neuro will be installed after bridge installation on 27.10.13 when details are available.

Neo Natal Bridge installation dates to be confirmed. BM are reviewing sequence of west elevation work to Children's Block, completion of services to west area and external works, to determine earliest/best installation date.

6. PROJECT SUPERVISOR

6.1 New Adult and Children's Hospitals

Visits to the site during August 2013 continue to indicate that the construction and procedures are progressing in a satisfactory manner in accordance with the Employer's Requirements.

Throughout, the standard and quality of the workmanship is generally good and operations are being carried out in an acceptable manner.

Together with Brookfield, Capita carried out quality and compliance inspections on Level 0 Area 0-526 and 0-525. The areas inspected were to a good standard and the defects captured by Brookfield were generally of a minor nature.

Following identification that smoke detectors had been sited too close to air supply grills in some locations Scotshield has carried out a survey and have moved detectors to a uniformed position throughout the project and has confirmed that the smoke detector system is designed to BS5839-1:2002+A2: 2008 Clause 22.3 Sub Clause (M) however in some instances there is a short fall of approximately 50mm from the BS regulations and this may require a minor derogation to record the change. Scotshield have confirmed that this minor derogation will have no detrimental effect on how the system operates.

Brookfield continues to undertake their Quality Assurance systems on site with inspection and checklist documentation available for the ongoing construction activities. Over the period, Capita have closely liaised with Brookfield and witnessed 85 point check to the partitions to various locations and the issues identified relating to missing insulation has been captured on the Brookfield IDMS system. As part of the Brookfield quality checks additional partitions will be opened up to check compliance with the specifications.

All pods to the Atrium Bridge have now been positioned and additional deflection checks to date have been further examined in respect of datum issues by the Brookfield team. Proposals in respect of final screeding and floor finish levels are awaited by Capita/NHS.

Final elements of steelwork erection have continued to the roof of the Children's Hospital in Zones A and B. Steelwork erection has also continued on the roof of the ACH and now extends to all 4 arms.

The sample AHU21 in plant room PR21 was inspected and comments provided for action by Mercury. It was agreed that this unit will form the standard for all other AHU's, therefore any issues are to be fully closed out to ensure quality installation. The M&E installation quality is being maintained to a good standard and Capita are generally satisfied that the installation is compliant with exception of those items which have been advised through the Supervisor Communication Process. The M&E installations are progressing on all levels up to Level 12 and range from first fix module installation to completed and tested areas. Major works are now well underway within level 3 plant rooms.

Various witnessing of commissioning activities has been carried out to smoke dampers, air flow tests ventilation duct pressure tests and fire alarm loops tests all of which were satisfactory.

6.2 Energy Centre

The installations in the Energy Centre are well advanced with the A-side systems commissioned and handed over and ground floor pipework being prepared for the CHP installation. Commissioning programmes for the B Side have been presented and significant commissioning will be taking place from June to December 2013.

6.3 New Multi-storey car parks

Civil and structural works continue to be to a generally high quality standard. Piling is completed in the car park area but full test results are still awaited by Capita for review. Foundation works are nearing completion and quality to date appears satisfactory. Drainage, sub-base and tarmac have been placed to a significant area of the ground floor and quality here is also satisfactory. The 1st floor slab has been poured and post tensioning applied. Brookfield quality checks on this appear sound and the floor finish achieved appears to be satisfactory.

6.4 In General

Capita are continuing to work with Brookfield during their inspections highlighting any items that have raised concern. Items identified in this manner are generally being addressed by the site team in advance of any defect notice being raised.

In general terms Capita are satisfied that the installations continue to be installed to a compliant standard, and are of a good quality.

7. COMMERCIAL (DR providing update)

7.1 Budget V Cost Plan – TP/MP

Adult and Children's Hospitals: User Group consultations and design development have not identified any items out with those noted in Early Warnings impacting on Target Price.

There has been 47 Nr Compensation Event Notices issued. The costs for all the Compensation Events have been agreed by both parties.

Contract Award Target Price	£575,111,382.00
Compensation Event Notices Issued - formally closed out	-£1,152,045.00
Compensation Event Notices Issued - awaiting close out	-
Current Estimated Contract Target Price Stage 1 – Stage 3A	£573,959,337.00
Car Park 1 Compensation Event	£11,429,631.00
Inflation Compensation Event	£10,000,000.00
Current Estimated Overall Contract Target Price	£595,388,968.00

7.2 Value Engineering/Opportunities

Value engineering opportunities are minimal as the design and procurement progresses through the final stages.

7.3 Defined Cost Audits

Sample audits are undertaken as part of the Payment Assessment Process. All information requested continues to be provided timeously. Issues are dealt with on an ongoing basis and closed out.

7.3.1 Piling

Discussions between BMCL and their Insurers are ongoing. Once BMCL have been advised the way forward by their Insurers they will inform the NHS Commercial Reps.

7.4 Early Warning Notices

A summary of all Early Warning Notifications (EWNs), Project Managers Instructions (PMIs) and Compensation Event Notices (CENs) activity as at 17th September 2013 is detailed below:

- Brookfield Multiplex have issued 138 EWNs to the Board, 134 have been closed out and 4 are currently open.
- The Board have issued 50 EWNs to Brookfield Multiplex, 48 have been closed out and 2 is currently open.
- The Board have issued 248 PMIs to Brookfield Multiplex, 241 have been actioned and closed and 7 are currently open.
- 49 CENs have been concluded.

Weekly meetings to review EWNs, PMIs and CENs are ongoing.

Full details of all EWNs, PMIs and CE can be found in the EW Tracker, available from the Board on request.

7.5 Cashflow

The cashflow for 2013/14 is currently forecast at around £189m excluding VAT.

7.6 Monthly Payments

Assessment Nr 43 was processed and issued on 21st August 2013 as follows:

PROJECT MANAGER'S

ASSESSMENT OF AMOUNT DUE (NEC3 Clause 11.2(29))

Contractor and Subcontractor Works

PSCP	Stage 1	£	74,453,614.00
	Stage 2	£	17,842,011.00
	Stage 3	£	327,917,275.00
	Stage 3A	£	0.00
	Car Park 1	£	3,240,614.00
PSCP Work Done to Date		£	423,453,514.00

Deduct retention free amount	£	0.00
Sub total	£	423,453,514.00
Retention	£	-1,861,340.00
Sub total	£	421,592,174.00
Deduct previous payments	£	406,047,891.00
Sub total	£	15,544,283.00

Add VAT %	20.00%	on £ 15544283	£	3,108,856.60
Amount due			£	18,653,139.60

Certified:

Project Manager

Date

20th August 2013

8. COMMISSIONING

8.1 New Adult and Children's Hospitals (ASK PM ABOUT THIS)

First stage zone inspections have commenced, and will be ongoing through to the final commissioning stage in 3rd calendar quarter of 2014. There are 179 zones throughout the project and each will have an initial inspection as currently scheduled by BMCE and a final inspection in 2014.

The first stage inspections will predominantly focus on builders work and finishes as few of the M&E systems are operational at present. The final inspections will be post run up of the building services installation and will verify the finished building.

Below is an extract of the Board's first stage inspection schedule is included below. This schedule identifies the Board's representative or lead for each zone, agreed dates for the Supervisor's joint inspection and Group 5 imaging equipment install dates, note these dates are still under review.

LEVEL	ZONE	NHS ZONE LEADS	DEPARTMENT	CAPITA INSP	GROUP 5	GROUP 5 INSTALL DATE	GROUP 5 DESCRIPTION	New or Transfer
1	G	1-527	PM	Critical Care	19.04.13	None		
1	G	1-525	PM	Critical Care	21.05.13	None		
1	G	1-528	PM	Critical Care	23.05.13	None		
1	G	1-526	PM	Critical Care	24.05.13	None		
1	D	1-523	PM	Critical Care	12.06.13	None		
1	D	1-522	PM	Coronary Care	04.07.13	None		
1	D	1-524	PM	Critical Care	19.06.13	None		
2	G	2-524	FW/FM	Theatres	21.08.13	None		
2	G	2-526	FW/FM	Theatres	21.10.13	None		
1	D	1-521	PM	Coronary Care	04.07.13	None		
0	G	0-528	HG/MM	Acute Assessment	25.07.13	None		
0	G	0-526	HG/MM	Acute Assessment	05.08.13	None		
2	D/E	2-522a	FW/FM	Theatres	09.10.13	None		
0	G	0-525	HG/MM	Acute Assessment	21.08.13	None		
2	D/E	2-520a	FW/FM	Theatres	09.10.13	None		

A process for zone inspection has been established with BMCE and is initiated by the issue of the BMCE 'Internal Fit-out As Built Inspection' folder to the Board's Supervisor. This folder records inspections/sign-off of relevant packages by the BMCE Floor Manager in conjunction with the package sub-contractors. Elements included in the inspections are;

- Services above ceilings
- Services in walls
- Ceilings
- Partitions/walls
- Wall protection
- Internal doors/screens/vision panels/tertiary glazing
- Flooring
- FF&E
- Gp1 equipment and fittings
- IPS units
- Decoration
- Curtain tracks
- Gp 2 installed kit

This document also records any snags or incomplete works, these along with any items raised by the Supervisor will require to be auctioned before the final inspection.

Within the timescale of this report, eight zones have received inspections by the Board and in the main only minor snagging items have been identified.

9. ENABLING WORKS

9.1 Chest Clinic and Estates Cabins Demolition

The building was handed over to the Project on 13/09/13.

The gas main diversion has been completed.

The Telecom cable has been withdrawn to the duct.

The power, IT and fire alarms have been isolated.

The oxygen main diversion has been completed.

The street cable lighting cable diversion is underway.

The water main diversion is underway. There was an isolation problem with the Govan Road main valve which Scottish Water is rectifying.

The internal asbestos survey to the ducts is underway.

Asbestos removal is scheduled to commence during October 13

The demolition date remains as November 2013.

10. APPENDICES (TO BE ADDED TO)

Appendix A - Site Photographs

Appendix B – A&C Hospitals - 6 week lookahead programme



SCOTTISH HOSPITALS INQUIRY
**Bundle of documents for Oral hearings commencing from 13 May 2025 in
relation to the Queen Elizabeth University Hospital and the Royal Hospital for
Children, Glasgow
Bundle 41 – Monthly Progress Reports**