PROJECT: NIHON UNIVERSITY NEWCASTLE CAMPUS

Monthly Project Control Group Report

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Prepared By	Ben Moss (Built Pty Ltd)

TEMPLATE OWNER: ENTERPRISE PROJECT CAPABILITY (v 12 DEC 10)

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Revision History

Version	Author	Issue Date	Changes
Draft A	Ben Moss	16.01.2020	Draft Report
Rev 1	Ben Moss	20.01.2020	Approved
PCG Report 01	Ben Moss	31.01.2020	January 2020
PCG Report 02	Ben Moss	28.02.2020	February 2020
PCG Report 03	Ben Moss	27.03.2020	March 2020
PCG Report 04	Ben Moss	29.04.2020	April 2020
PCG Report 05	Ben Moss	29.05.2020	May 2020
PCG Report 06	Ben Moss	26.06.2020	June 2020
PCG Report 07	Ben Moss	31.07.2020	July 2020

Distribution List

Name	Title	Company	Email
Jun Yokobori	Lead Architect	Azusa Sekkei	Yokobori1482@azusasekkei.co.jp
Ed Clode	Architect	dwp Australia Pty Ltd	Edward.c@dwp.com
Katherine Daunt	Architect	dwp Australia Pty Ltd	Katherine.d@dwp.com
Rod O'Neill	General Manager	Built NSW Pty Ltd	rodoneill@built.com.au
Rob McLaughlin	Construction Manager	Built NSW Pty Ltd	robertmclaughlin@built.com.au
Benjamin Moss	Project Manager	Built NSW Pty Ltd	benmoss@built.com.au
Slafco Gavriloski	Senior Contracts Administrator	Built NSW Pty Ltd	slafcogavriloski@built.com.au
Sita Vasanthakumar	Design Manager	Built NSW Pty Ltd	sita@built.com.au
Leif Aleksic	Site Manager	Built NSW Pty Ltd	leifaleksic@built.com.au

1. Introduction

Built NSW Pty Ltd has been engaged by Nihon Daigaku Australia Newcastle Pty Ltd, c\o Azusa Sekkei & dwp Australia Pty Ltd to undertake the project and works associated with the redevelopment of the existing heritage listed Newcastle Courthouse site for the new Nihon University Newcastle Campus located at 9 Church Street, Newcastle NSW Australia.

Built NSW has been engaged under a Design & Construct (D&C) Contract for the Services and Structural (excluding Heritage Building) packages whilst all other packages are Construct Only.

The project consists of the complete demolition of two existing three-story buildings, site remediation (including the management of any resultant contamination, mine workings and/or archaeological findings), the restoration and refurbishment of the retained and state heritage listed Newcastle Courthouse building and the construction of two new four-story buildings comprising student accommodation in the eastern building and teaching space\carpark in the western building.

2. Project Details

Date of Site Report: 31st July 2020

Prepared by Company: Built Pty Ltd

Address: Level 1, 155-157 Lambton Rd, Broadmeadow, NSW 2290

Contact: Rob McLaughlin

Phone: 02 4077 5906 **Email: robertmclaughlin@built.com.au**

Project No: 201229

Project Name: Nihon University Newcastle Campus

Address: 9 Church Street, Newcastle, NSW 2300

Client: Nihon Daigaku Australia C/O Azusa Sekkei

Architect / Head Contract Administration: dwp Australia Pty Ltd

Superintendent's Address: 16 Telford Street, Newcastle East, NSW 2300

Contact: Ed Clode

Phone: 02 4926 5222 **Email: Edward.c@dwp.com**

3. Report

3.1 HSE Overview

The project team and site personnel demonstrated excellent HSE performance in July 2020 with zero health, safety, and environmental incidents occurring. As construction activity continues to increase throughout the structure stage of works, the focus will be on detailed planning and communication to identify potential hazards in advance and to ensure the required control measures are implemented to protect the wellbeing of personnel and the public.

A summary of HSE issues for July 2020 is outlined in Table 1 below.

The HSE Incident Register is attached in **Appendix A.**

Table 1: HSE Incident Summary

DATE OF ISSUE	BRIEF SUMMARY OF ISSUE	CORRECTIVE ACTION COMPLETED
-	Nil issues this period.	-

3.2 Community Liaison Overview

In accordance with SSD-9787 Conditions of Consent and BUILT's Community Liaison Plan, BUILT has liaised with nearby residents, businesses, and organisations. BUILT intends to work closely with our neighbours for the duration of the Nihon University project by regularly updating and consulting stakeholders on upcoming works and overall construction progress.

BUILT has also established a Community Liaison email account (nihon@built.com.au) that is monitored by the Community Liaison Officers daily and a 24-hour contact number is present on project signage located on Church Street access gates.

BUILT maintains a register of all community complaints, notices, and queries received to ensure compliance with SSD conditions and reporting requirements.

A brief summary of community liaison in July 2020 is outlined in Table 2 below.

The Community Liaison Register is attached in **Appendix B**.

Table 2: Community Liaison Summary

DATE OF ISSUE	BRIEF SUMMARY OF ISSUE	RESPONSE / ACTIONS COMPLETED
28.07.2020	**REF: 2007-CN017 Construction Progress Update 03:** General update on progress and upcoming works including concrete pours (and related lane closures) and the 21-day notice for water main connection works on Church Street.	Nil received.
29.07.2020	**REF: 2007-CN018 HNE Coordination – Water Connection** Additional coordination between Built, HNE James Fletcher Hospital, and Hydraulic Subcontractor to ensure there are no disruptions to HNE operations during the water main connection works.	Ongoing coordination between stakeholders is continuing. HNE is advising of operational/system requirements to enable Built to implement any required measures.

3.3 Audits & Monitoring

Throughout the Nihon University Newcastle Campus project, Health, Safety, Environmental & Quality (HSEQ) Audits will be undertaken internally by Built and externally by an Independent Third-Party Auditor (GHD Group Pty Ltd Newcastle) in compliance with both Built Management Systems (AS/NZS ISO 14001 & AS/NZS ISO 9001:2016 accredited) and SSD-9787 Development Consent Conditions.

Built has engaged a qualified and experienced Acoustic Consultant, RAPT Consulting (RAPT) to conduct noise and vibration monitoring throughout the duration of the project as required by the Construction Noise and Vibration Management Sub-Plan. Built's Project HSE Officer also conducts noise level spot checks on current construction activities, plant, and equipment.

A summary of these audit and monitoring activities is outlined in Sections 3.3.1 & 3.3.2 below.

Copies of the key monitoring and inspection records as required under SSD-9787 are attached in **Appendix C.**

3.3.1 Internal Audits & Monitoring

The Built project team completed a total of 68 HSE site inspections and monitoring activities throughout July 2020 with 8 corrective actions assigned as a result.

Table 3 below outlines the total number of activities completed by Built during July 2020. All activities are completed and recorded electronically using the Built.Safe software platform.

Table 3: Monthly Record of Internal HSE Activities Completed

ACTIVITY	DESCRIPTION	COMPLETED	ACTIONS
Site Inspection	Inspection of the site or specific work areas to identify potential HSE hazards and verify the implementation and effectiveness of management measures.	22	2
Plant Inspection	Inspection of plant and equipment to check it is fit for use prior to being permitted to use onsite or to re-inspect after a significant breakdown, damage, or expiry of a plant induction sticker.	14	0
Monitoring	Used to monitor construction activities compliant with the processes outlined in the Project HSE Management Plans and requirements of development approvals and permits.	27	2
BSMS Review	Review of the implementation and effectiveness of the Built Safe Mandatory Standards (controls) in relation to process risks such as scaffolding, temporary works, demolition, FRP concrete, and asbestos.	1	1
Noise Level Spot Check	Used to monitor noise levels at sensitive receiver locations, specific work areas, construction activities, and plant/equipment.	3	0
Audit / Review – Internal HSE Plan	Used to monitor and measure the implementation of the HSE Plan by the project.	1	3
	TOTAL	**68**	**8**

Key activities completed and those requiring corrective actions to be assigned are summarised in Table 4 below.

Table 4: Internal Audit and Monitoring Activity Summary

DATE OF ACTIVITY	BRIEF SUMMARY OF ACTIVITY	CORRECTIVE ACTIONS COMPLETED
01.07.2020	**Monitoring – SWMS Monitoring** Identified temporary electrical switchboard was not sealed correctly.	• Electrical switchboard sealed correctly, and all others inspected.
06.07.2020	**Monitoring - General Observation** Identified additional physical protection required around the generator.	• Water barriers placed around the generator to protect against plant and equipment.
08.07.2020	**Site Inspection – Whole of Site** Inspection of the whole of the site to ensure control measures are implemented and identify any potential hazards. Church Street and Work Zone clean and tidy, sediment control in place. Building A - clean and tidy with HSE control measures in place. Building B – Identified penetrations not covered in accordance with Built.Safe Mandatory Standards. Building C – Identified opportunity for improvement in housekeeping and covering of penetrations. Otherwise all other HSE controls implemented accordingly.	• Workers addressed on housekeeping and Building C area cleaned. • Penetrations in Building B & C inspected and rectified in accordance with Built.Safe Mandatory Standards.
29.07.2020	**BSMS Review – Formwork** Completed a review of current formwork documentation and practices onsite against BSMS FRP Concrete. Good practices and BSMS requirements verified. Identified that subcontractor Training and Competency Register had not been updated.	• Subcontractor updated and submitted Training and Competency Register.
29.07.2020	**Internal HSE Plan Review – CEMP & Sub-Plans** Internal review of CEMP & Sub-Plans was completed due to a 3-month timeframe and structure works commencing onsite. All control measures were found to be current and effective. Identified minor amendments required due to completed or upcoming works onsite.	• Demolition Management Plan to be removed from the Construction Waste Management Plan (CWMP) due to the completion of works. • Updated Traffic Control Plans to be included in the Construction Traffic & Pedestrian Management Sub-Plan. • Section 8.0 of the Construction Environmental Management Plan to be amended to reflect changes to the CWMP.

3.3.2 External Audits & Monitoring

Metiri Consultants conducted a monitoring activity during the Hunter Water water main upgrade works on 01.07.2020. No issues were identified.

There were no additional external audits or monitoring conducted during July 20202, however, dwp Australia is scheduled to complete Compliance Report 04 in August 2020 in accordance with Condition C23, and the Independent Environmental Audit 02 is scheduled to be completed by GHD on 26th August 2020.

3.4 Contract Programme Status

3.4.1 Construction Progress Update

The following construction activities have been completed during the reporting period:

Key Project Milestones:

- CC2#B Education Building - Approved

Authority Approvals:

- Subsidence Advisory NSW - Requirements Satisfied

Civil, Piling & Retention Works:

- Education Building – Mines Grouting Complete
- Stormwater Diversion – Complete

Structure Works:

- Residential Building – In Ground Services Complete
- Heritage Building – Rainwater Tanks & Retaining Walls Complete

3.4.2 Current Construction Activities

The following construction activities are currently underway on site and progressing well:

Building A – Education

- CFA Foundation Piles – 95% complete

Building B – Heritage

- Structural Repairs – 40% complete
- Level 1 Rough In Services – 50% complete
- Level 2 Rough In Services – 5% complete

Building C – Residential

- Blockwork to Southern Retaining Wall – 50% complete
- FRP Level 1 Slab on Ground – 40% complete

External Works:

- Hunter Water Water Main Upgrade – 95% complete
- Hunter Water Sewer Upgrade – 10% complete

3.4.3 Upcoming Construction Activities (August 2020)

The following construction activities outlined below are expected to commence in August 2020:

Building A – Education

- Bulk & Detailed Excavation
- Pile Trimming
- In Ground Services
- Formwork, Reinforcement, Place Concrete (FRP) Lift Pit, Pile Caps & Capping Beams
- FRP Level 1 Slab on Ground

Building B – Heritage

- Structural Repairs to Level 1 & 2 – Ongoing
- Rough In Services Level 1 – Ongoing
- Rough In Services Level 2 – Ongoing
- Rainwater Tank Connections & Backfill – Ongoing
- Waterproofing External Walls - Ongoing

Building C – Residential

- FRP Level 1 Slab on Ground – Pour 2
- FRP Level 1 – 2 Verticals (Columns and Walls)
- FRP Atrium Strip Footing (RWSF7)
- Blockwork to RWSF7
- Erect Perimeter Scaffold
- FRP Level 2 Suspended Slab
- FRP Level 2-3 Verticals (Columns and Walls)

External Works

- Hunter Water Sewer Main Upgrade - Ongoing
- Hunter Water Water Main Upgrade – Final Connection

3.4.4 Potential Issues

BUILT regularly reviews the construction programme to identify issues that have the potential to impact time, cost, and quality aspects of the project. The following issues have been flagged for attention:

a) City of Newcastle approval process for Section 138 application for Public Domain Works.
b) The extent of termite and water damage within the Heritage Courthouse.
c) COVID-19 global pandemic potential risk to construction activities and procurement.
d) Additional Archaeological investigations within areas yet to be excavated.
e) Risk of existing services within the Public Domain potentially affected by Section 138 Works.
f) Existing fibre optic cable located beneath Building C driveway may need to be relocated deeper to allow for the required civil works.
g) Registration of Stormwater and Ausgrid Easements.

3.4.5 Statused Contract Programme

A copy of the statused Contract Programme for July 2020 is attached in **Appendix D.**

3.4.6 Four Weekly Look Ahead

A Four Week Programme for August 2020 is attached in **Appendix E**. This programme shows works still underway and commencing prior to the end of August 2020.

3.5 Progress Photos

The following progress photos were taken throughout July 2020.

3.5.1 Building A – Education

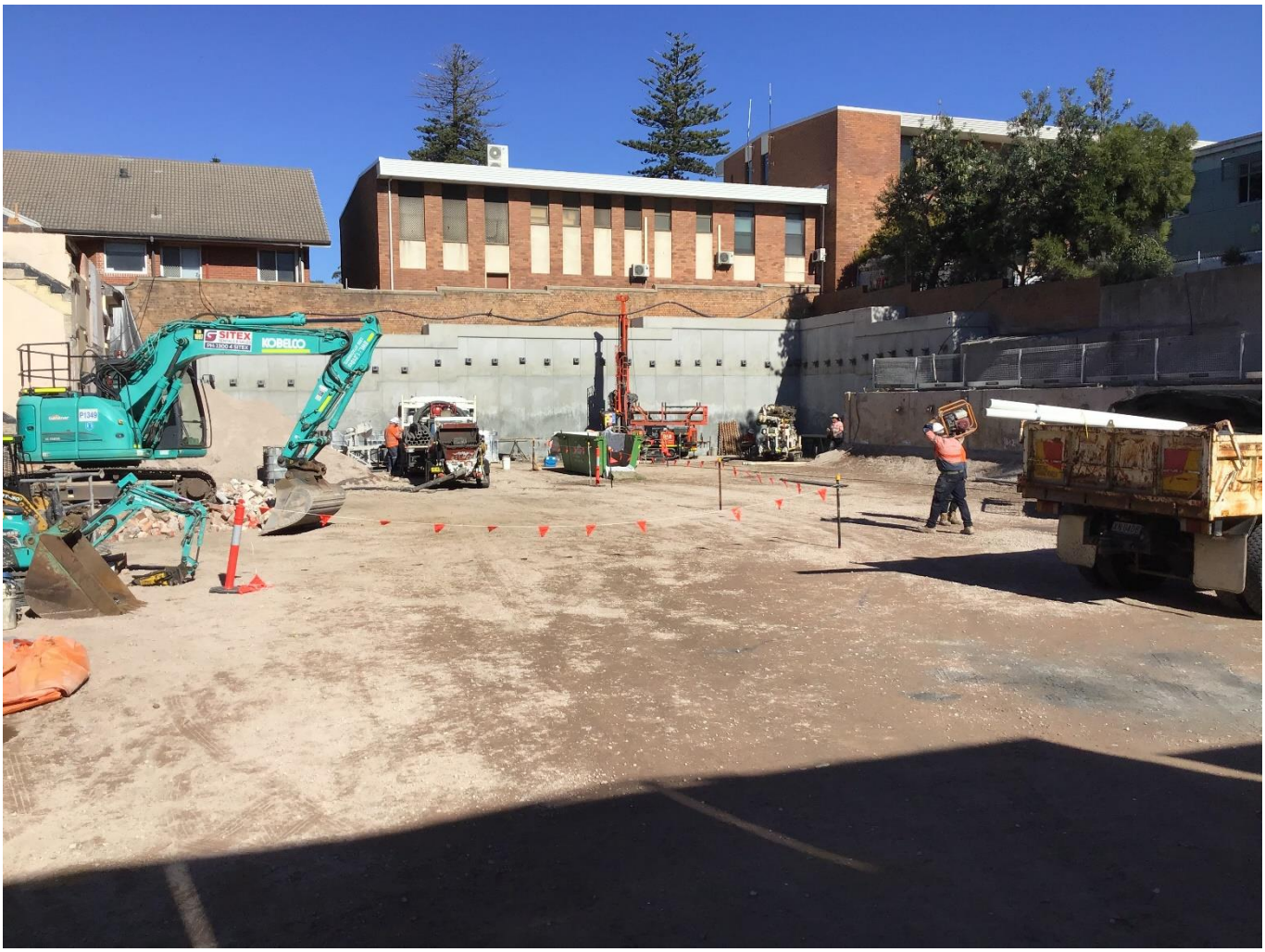


Photo 01: Mines grouting works underway in early July.



Photo 02: Drilling rig set up in the North West corner of site.



Photo 03: View of South West corner showing clean site and piling platform constructed after completion of mines grouting.



Photo 04: View looking North showing clean site and piling platform constructed after completion of mines grouting.



Photo 05: View looking South at piling rig onsite completing CFA foundation piles.



Photo 06: View of Building A site looking South from top of gantry/scaffold showing piling works.



Photo 07: View of Building A site looking South West from top of gantry/scaffold showing piling works.



Photo 08: View of Building A site & Heritage Courthouse looking South East from top of gantry/scaffold.

3.5.2 Building B – Heritage Courthouse



Photo 09: Underpinning in Level 1 – Book Storage



Photo 10: Underpinning complete in Level 1 – Book Storage



Photo 11: Underpinning complete



Photo 12: Slab on Ground complete in Level 1 Book Storage. Note roughed in services.



Photo 13: Slab on Ground complete in Level 1 Book Storage. Note roughed in services.



Photo 14: Level 1 Lift Lobby excavations



Photo 15: Level 1 Lift Lobby slab on ground complete and blockwork in progress



Photo 16: Rotted timber floor removed and area cleaned in Level 1 Teachers Room



Photo 17: New timber floor structure in Level 1 Teachers Room



Photo 18: Flooring being installed in Level 1 Teachers Room



Photo 19: Services rough in within Level 1 Corridor 4. Note completed steel lintels and masonry on right hand side.



Photo 20: Services rough in within Level 1 Corridor 5.

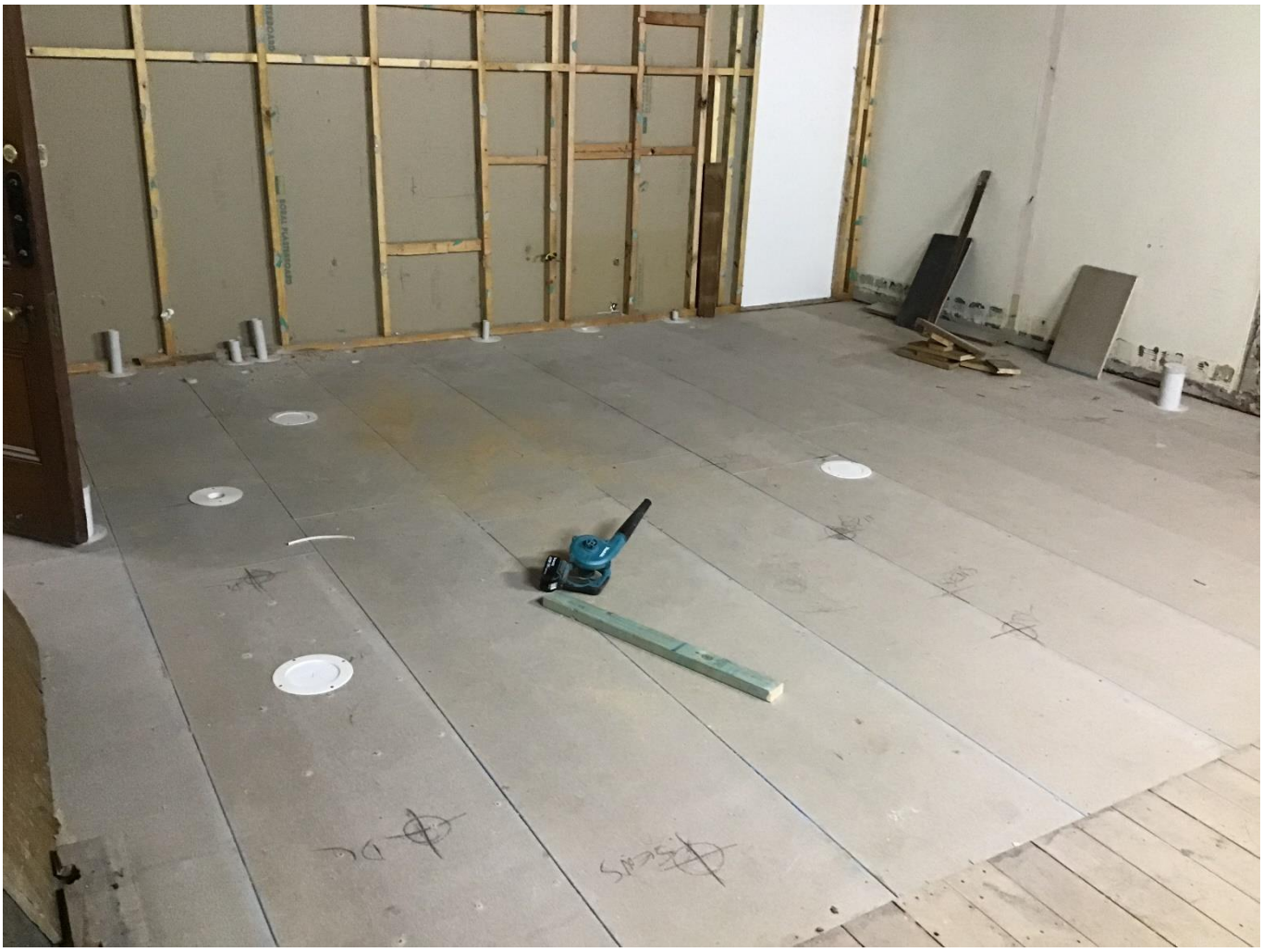


Photo 21: Structural repairs and flooring within Level 2 ACC & Male Amenities. Note hydraulic rough in.



Photo 22: Completed steel lintels and masonry within Level 2 Magistrate 1



Photo 23: Completed steel lintels and masonry within Level 2 Old Library.



Photo 24: Completed steel lintels and masonry within Level 2 Judges Room 4.



Photo 25: Level 2 Lounge Area being used as Site Lunchroom. Note rough in of electrical services.



Photo 26: Level 2 Lobby and existing stairs to Level 3.



Photo 27: Level 2 Corridor 8 looking South.



Photo 28: Demolition in early July at rear of Courthouse.



Photo 29: New structural timber floor for future Female Amenities at rear of Courthouse.



Photo 30: Excavation and Archaeological investigations completed to Rainwater Tank area beneath Terrace.



Photo 31: Footings, waterproofing, and blinding layer complete in Rainwater Tank area.



Photo 32: Core filled blockwork complete in Rainwater Tank area.



Photo 33: Rainwater Tank being lifted into site.



Photo 34: Rainwater Tank lid being lifted into site.



Photo 35: Rainwater Tanks installed and waterproofing to blockwork. Ready for backfilling.



Photo 36: Cleared planter bed at front of Courthouse.

3.5.3 Building C – Residential



Photo 37: Waterproofing and subsoil drainage along Building B.



Photo 38: Waterproofing to Lift Pit C1 & C2 prior to backfill.



Photo 39: Lift Pits backfilled and compacted.



Photo 40: Reinforcement to Lift Pits



Photo 41: Stair C2 formwork and reinforcement ready for inspection.



Photo 42: Overview of site looking South East with Stair C1 in foreground.

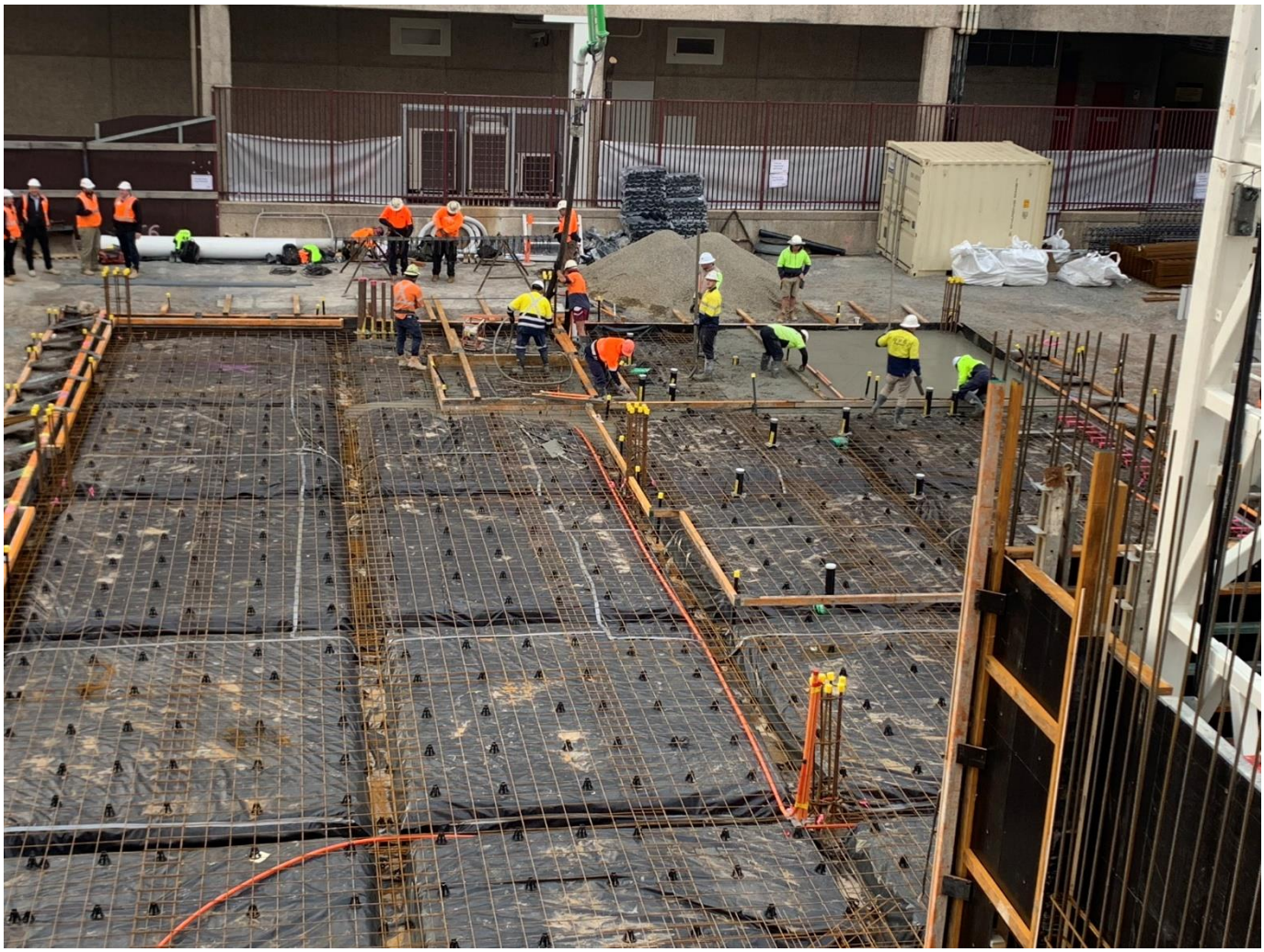


Photo 43: Overview of slab on ground during pour 1.

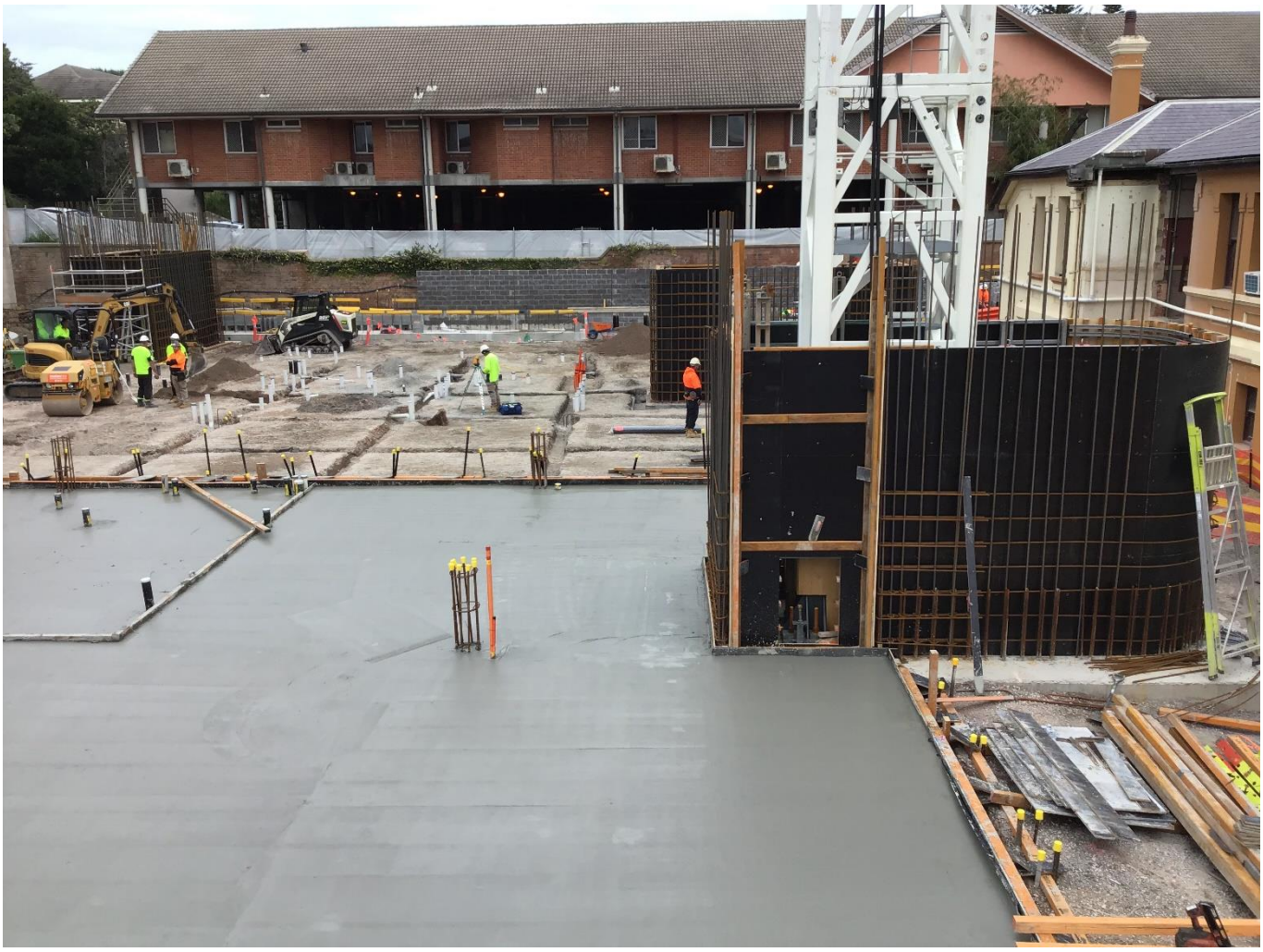


Photo 44: Overview of site looking South. Note blockwork retaining wall in background.

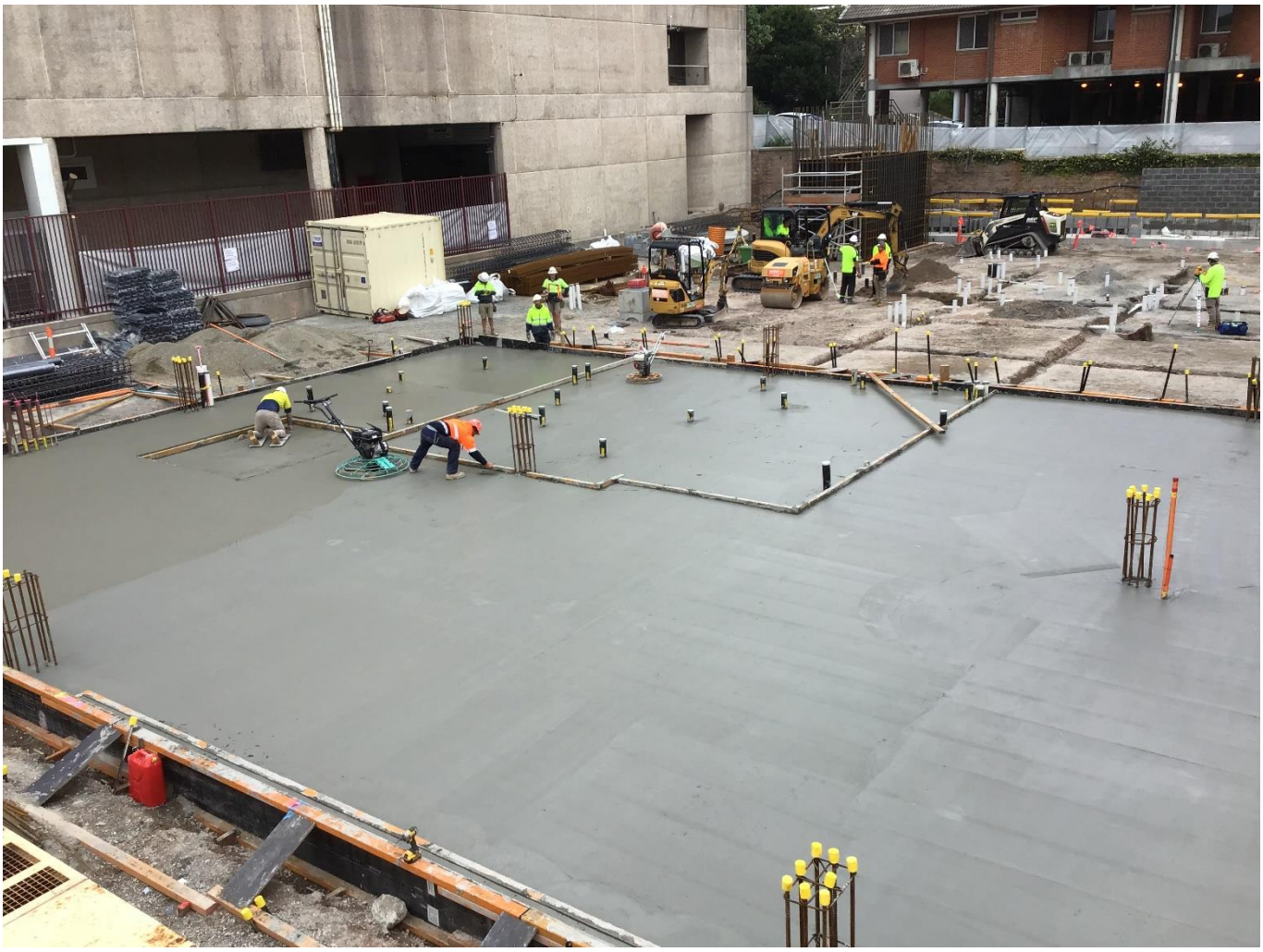


Photo 45: Slab on ground pour 1 complete.

3.5.4 External



Photo 46: Site overview – July progress 1



Photo 47: Site overview – July progress 2



Photo 48: Site overview – July progress 3



Photo 49: Site overview – July progress 4



Photo 50: Site overview – July progress 5



Photo 51: Concrete pump from Church Street.



Photo 52: View of site from Church Street looking West. Note new water main trench prepared for final connection.



Photo 53: View of Church Street and footpath looking East.



Photo 54: Building C Vehicle Gate. View looking West. Note installed convex mirror for improved safety.

3.6 Design Update

3.6.1 Architectural

- Architectural drawings continue to be updated following minor amendments, closeout of services coordination and onsite issues.
- Coordination of services risers and penetrations with services trades and structure is being finalised for final review.
- Design for Roof Safety System still outstanding. Built is chasing two contractors for design.
- Window detail to be finalised to confirm waterproofing, flashing, and sill details. Built to provide detail for review and approval.

3.6.2 Structural & Civil

- Revised structural AFC drawings to be issued 23/07/20 following resolution of the Heritage and Education building connections and outstanding issues.
- AFC Structural drawings for Heritage Building were re-issued as “For Construction” on 30/07/20
- Cardno submitted revised civil drawings on 13/07/20
- The Survey of existing services in footpath was completed and Cardno has identified services that will be affected by the new works. Built to liaise with utility providers to arrange for relocation.

3.6.3 Hydraulic Services

- Revised AFC hydraulics drawings were issued on 13/07/20 to address outstanding coordination issues, mainly associated with siphonic roof drainage.

3.6.4 Electrical Services

- Revised Electrical Services AFC drawings were issued on 03/07/20 capturing outstanding coordination issues.

3.6.5 Mechanical Services

- Revised Mechanical Services AFC drawings were issued on 06/07/20 and 30/07/20 capturing outstanding coordination issues, particularly associated with the Heritage Building.

3.6.6 Fire Services

- Revised AFC Fire Services drawings were issued on 15/07/2 to capture outstanding coordination issues.

3.6.7 Fire Engineering

- Setout and approval of WS1 and CWS drenchers has been resolved.
- Design Confidence to provide a performance solution to address the deletion of spandrels to the Education/ Heritage link glazing and the Education internal terraces.

3.6.8 Green Star

- There have been no updates to the Green Star Pathway design items during this reporting period.

3.6.9 Shop Drawings

- Shop drawing reviews and approvals are progressing through Aconex Workflow. A status of the workflows that are completed and in progress is attached in **Appendix I**

3.7 Authorities & Approvals

3.7.1 NSW Dept. Planning & Environment.

- A statused version of the SSD-9787 Conditions Matrix has been attached in **Appendix G.**

3.7.2 City of Newcastle

- Council has advised that they are assessing the Section 138 application and will provide a response by 31/07/2020.

3.7.3 Ausgrid

- Shop drawings will not be provided as the certified design is as per the standard Ausgrid kiosk drawings for Type L.
- dwp and Azusa to commence the easement registration process ASAP so that the easement deed is in place prior to energisation of the kiosk.
- The pre-commencement meeting with Ausgrid is to be scheduled in August.

3.7.4 Jemena

- Jemena offer for connection has been approved by Nihon and Built has completed the online acceptance of the offer.
- Retail account to be opened with Origin Energy to allow the design and planning of incoming gas feed to commence. Built to complete an application form.

3.7.5 Hunter Water

- Hunter Water sewer design has been revised due to the existing sewer line being shallower than shown on the Hunter Water SWIMS plans. A revised design was issued by Metiri on 15/07/20 and works are scheduled to commence shortly.
- Hunter Water water mains upgrade is complete and the connection date is scheduled for 18th August 2020.

3.7.6 NBN & TPG

- NBN agreement for incoming broadband has been fully executed.
- NBN application to relocate pits and conduits that house the optic fibre has been lodged and invoice to commence design and investigation works is with Nihon for payment.
- TPG invoice to commence design and investigation works has been paid by Nihon. TPG cannot commence works until they have received NBN design for the relocation of pits and conduits.

3.7.7 SANSW

- Approval of the final report for Stage 2 of mines grouting of the Education Building has been received from SANSW.

3.8 Outstanding RFIs

(Generated from Aconex)

RFI Register							
Mail No.	**Subject**	**Sent**	**From (Company)**	**To (Company)**	**Status**	**Comments / Actions**	**Discipline**
BUILT-RFI-000074	Gas provision for fireplaces	26/02/2020	Built	Jun / dwp	Responded	**ON HOLD** Client waiting for final pricing before deciding	Services
dwp AU-RFI-000099	EXISTING COURT HOUSE DOWN PIPE SURVEY RESULTS	15/04/2020	dwp	Built	Responded	Survey provided. dwp to review	Services
NE-RFI-000044	Roof drainage concept	29/04/2020	Northrop	Built / dwp	Responded	Built requested Cardno to confirm overflow drainage in ground is sufficient	Civil
Built-RFI-000253	Co-ordination of existing services with new footpath works	8/05/2020	Built	dwp/Cardno	Responded	Survey complete - Cardno have reviewed - Built to obtain information from asset owners	Civil
BUILT-RFI-000332	Alternative Floor Finish to Kitchen	2/06/2020	Built	dwp	Responded	**ON HOLD** dwp/Asuza to review with final costings. Samples available for review	Architectural
dwp AU-RFI-000163	17-0347 Nihon University | Heritage Courthouse Roof Drainage	12/06/2020	dwp	Built	Responded	Survey completed on site 24th July 2020. dwp to review	Services
dwp AU-RFI-000167	Pad Mount Kiosk - Ausgrid pre-construction meeting & Table of Critical Dates	22/06/2020	dwp	Built	Responded	Built to confirm time, date of prestart meeting to dwp - 10 days' notice required	Services
dwp AU-RFI-000171	Footing enquiries at concrete wall at Stair 2 and at kiosk	25/06/2020	dwp	Northrop	Responded	Structural drawings updated with 430mm concrete wall. Larger footing not required. Northrop completed site inspection 30.06.2020 - Northrop to respond	Structural

RFI Register							
BUILT-RFI-000363	Final (WF-000005) Hydraulic Services Shop Drawings	30/06/2020	Built	McCallum	Outstanding	Siphonic roof water outlets to roof area	Services
BUILT-RFI-000367	Paint RFI's	2/07/2020	Built	dwp	Responded	dwp to update- finishes to fire stairs	Architectural
dwp AU-RFI-000175	Ausgrid SMSB Compliance Statement & Checklist	7/07/2020	dwp	Built	Responded	MSB Compliance Statement to be submitted post MSB installation. Mailec will provide forms for Nihon to completed	Services
dwp AU-RFI-000177	Amplifiers	7/07/2020	dwp	Northrop	Responded	Mailec to provide feedback	Services
dwp-RFI-000179	Stormwater diversion WAE survey plans	9/07/2020	dwp	Built	Responded	Stormwater pipe not centred in easement. Pit D3 encroaching on residential building structure. Pit D1 clashes with landscape retaining wall ACTION: Built to respond	Civil
BUILT-RFI-000381	Inspection of blockwork under Building B Terrace	14/07/2020	Built	Cardno	Responded	Wall to be added	Structural
BUILT-RFI-000385	Residential Building Level 3 - General Partitions Load Query	15/07/2020	Built	Northrop	Outstanding	Loads for walls queried. Followed up Northrop 17.07.2020	Structural
dwp AU-RFI-000180	Proposed Field Amendment Sewer	15/07/2020	dwp	Built	Responded	Sewer design to be amended. Cardno have assessed	Civil
BUILT-RFI-000386	Section J Report	15/07/2020	Built	Northrop	Responded	Section J report to be revisited post award of glazing contract	Services
BUILT-RFI-000387	HWC Sewer Main Upgrade	15/07/2020	Built	Northrop	Outstanding	Northrop to review changes to sewer upgrade and in packs	Services
dwp-AU-	Proposed Field	15/07/2020	dwp	Built / Cardno	Responded	Design to sewer to be amended	Services

RFI Register							
RFI-000181	Amendment Sewer						
BUILT-RFI-000392	Fire Rating of Structural steel members	15/07/2020	Built	Dix Gardner	Responded	Dix Gardner confirmed verbally and to formally confirm	Structural
BUILT-RFI-000394	Set outs required for Floor Grilles to Heritage Building	15/07/2020	Built	dwp	Responded	dwp to confirm final positions of grilles	Services
dwp-AU-RFI-000182	Archaeological Report	16/07/2020	dwp	Built	Responded	AMAC advised monitoring works required to front of site. Photographs and summary of findings provided to dwp to assist City Plan with Interpretation Plan	Architectural
BUILT-RFI-000400	Lift R2 & R3 - Lift shaft nib dimensions to be amended	17/07/2020	Built	dwp	Responded	Changes to nib wall sizes on shop drawings -Changes correct - agreed with Sita, Katherine & Kone	Services
BUILT-RFI-000403	Building A Foundation Piles - Proposed Location Change	20/07/2020	Built	Northrop	Responded	Survey of changes to pile locations for approval	Structural
dwp AU-RFI-000183	Footpath & Public Domain services review	20/07/2020	dwp	Built/Cardno	Responded	Survey of existing services in footpath ACTION: Built to consult with asset owners	Services/Civil
BUILT-RFI-000404	For Construction Drawings	20/07/2020	Built	Cardno	Outstanding	Issue For Construction drawings	Structural
BUILT-RFI-000405	Gerflor Vinyl Products - Not meeting Greenstar Requirements	20/07/2020	Built	dwp	Responded	Alternative vinyl products being reviewed	Green Star
BUILT-RFI-000408	Courthouse Terrace - RWT Riser Insert/Lid Details	20/07/2020	Built	dwp	Responded	Position of access panels to tank to be confirmed on site, under croft mechanical issues to be addressed	Services

RFI Register							
	Building A - Proposed Stormwater Pumpstation	21/07/2020	Built	Cardno	Responded	Proposed use of precast pit for Education building carpark. Approved - cardno to confirm flow rates	Civil
dwp AU-RFI-000184	Re: Floor Wastes to Small Terraces	21/07/2020	Built	dwp	Responded	Issue resolved - pipe to run in Education WC L2 - Boxed out column to be added - Sita to close out	Services
dwp AU-RFI-000185	Re: Outstanding Coordination Issues	21/07/2020	dwp	Built	Responded	outstanding coordination issue	Services
BUILT-RFI-000410	Fwd: Residential Level 1 -	21/07/2020	Built	ARA / Northrop	Responded	Confirmed deletion of sprinkler test drains	Services
BUILT-RFI-000412	Final co-ordination of large services penetrations with structure	22/07/2020	Built	Northrop	Responded	Coordinated peno set out	Services
BUILT-RFI-000413	Building C Stair Walls - RIP Boxes	22/07/2020	Built	Northrop	Responded	Ripa boxes approved	Structural
BUILT-RFI-000416	RWT - Sludge Level / RL for Connecting Pipes	22/07/2020	Built	Cardno	Outstanding	IL for pipes to water tank	Civil / Services
BUILT-RFI-000418	Structural Steel RFIs	23/07/2020	Built	dwp/ Northrop	Responded	More detail required for stairs & fixings	Structural
BUILT-RFI-000420	Final co-ordination of large services penetrations with structure	24/07/2020	Built	Coles	Responded	Fire Damper infor required	Services
BUILT-RFI-000421	Relocate NBN pit and incoming conduit to Coms room	24/07/2020	Built	Northrop / dwp	Responded	NBN incoming line to be reconfigured to reduce the amount of bends in the incoming line. Mailec to provide offsets for dwp to review	Services
BUILT-RFI-000422	Re: Wall to Roof - Type 4 Connections	24/07/2020	Built	dwp /Cardno	Responded	Cardno to review proposed alternative design	Structural

RFI Register							
BUILT-RFI-000424	Re: Residential Level 1 -	24/07/2020	Built	ARA / AFA / Northrop	Responded	Confirmation of verbal discussion to delete test pits to L1 stars. Will drain back to sprinkler room at high level. ARA to confirm why second value set	Services
BUILT-RFI-000425	Heritage_Level 4 DB	27/07/2020	Built	Northrop	Responded	DB to L4 must be maintained. Controls all high-level lighting in both court rooms	Services
dwp AU-RFI-000186	Fwd: Footpath & Public Domain services review	27/07/2020	dwp	Built	Responded	ACTION: Built to contact local authorities and obtain asset information	Services
BUILT-RFI-000426	FRL Requirement for Internal Terrace Lintels	27/07/2020	Built	Dix Gardner	Responded	ACTION: Northrop to review comments from certifier and provide further advice	Structural
BUILT-RFI-000427	Re: FRL Requirement for Internal Terrace Lintels	27/07/2020	Built	Dix Gardner	Responded	As per BUILT-RFI-000427	Structural
BUILT-RFI-000428	Building A - Level 2 Concrete Profile	27/07/2020	Built	Northrop	Responded	Dimension confirm - Northrop to review further queries	Structural
BUILT-RFI-000430	RE: Male toilet Level 1 heritage.	28/07/2020	Built	dwp	Responded	Magistrates room and the Male & Female toilet measurements not consistent with plans	Architectural
BUILT-RFI-000431	RE: Male toilet Level 1 heritage.	28/07/2020	Built	dwp	Responded	As per RFI-000430	Architectural

3.10 Recycling Records

Built has engaged Central Waste Station to handle all the construction waste from demolition through to project completion. Central Waste has a resource recovery centre in Kurri Kurri where they sort, and recycle materials on-site, or send on to speciality recyclers, with a minimum amount of waste that is unable to be recycled then disposed of in licenced landfill sites. Central Waste Station is targeting a 90% materials recovery rate of all waste collected.

Each month, Central Waste will issue Resource Recovery Reports to Built specifically for this project which is included in the monthly PCG Report (**attached in Appendix H**).

For the month of July 2020, the Waste Recovery Percentages were:

- Demolition Waste - 100%
- Building Waste – 91.14%
- Combined Waste Recovery Total = **91.80%**

4. Appendices

Appendix A – HSE Incident Monthly Register

Appendix B – Community Liaison Register

Appendix C – Audit Records

Appendix D – Statused Contract Programme

Appendix E – Four Week Programme

Appendix F – Green Star Pathway Status

Appendix G - Statused SSD-9787 Conditions Matrix

Appendix H – Monthly Waste Recovery Reports

Appendix I – Workflow Status

Appendix A – HSE Incident Monthly Register

Monthly HSE Incident Register

Built.

Project: Nihon University

Jul-20

Month	Labour Hours	First Aid Incident	Medical Treatment Incident	Lost Time Incident	Near Miss Incident	Notifiable Dangerous Incident	Environmental Incident *Includes complaints
Jan-20	2180	0	0	0	0	0	0
Feb-20	6500	0	0	0	1	0	1*
Mar-20	5930	0	1	0	0	0	3*
Apr-20	5070	0	0	0	0	0	7*
May-20	7700	0	0	0	1	0	1*
Jun-20	7100	3	0	0	0	0	0
Jul-20	10820	0	0	0	0	0	0
TOTALS:	**45300**	**3**	**1**	**0**	**2**	**0**	**12**

Appendix B – Community Liaison Register

Community Liaison Register

Built.

Project: Nihon University

Complaints Register

Last Updated: 31/07/20

REF ID	DATE / TIME RECEIVED	RECEIVED FROM	DESCRIPTION	DATE / TIME RESPONDED	RESPONSE BY	DESCRIPTION	CLOSED (Y / N)
2001-CC001	21/01/2020 1:20pm	Tanya Way (JFH Employee)	Concerned about removal of trees at Southern Boundary & wildlife. Works at James Fletcher Hospital.	22/01/2020 9:00am	BM	Phoned Tanya to disuss her concerns and assure precautions were taken and removal is in accordance with SSD-9787. Followed up with email containing project information and NSW Planning Portal	Y
2002-CC002	27/02/2020 4:20pm	Tony Lawler (Resident)	Notified Built via email of cracks appearing within his property at 30 Church Street that were previously not noted. Believes demolition works occurring the past couple of days and vibration are the cause.	27/02/2020 5:06pm	BM	Phoned Tony to further discuss the issue raised. An inspection of the property has been arranged for 3:00pm 28/02/2020 with Tony, Built Project Manager and Structural Engineer who completed initial Pre-Construction Dilapidation Report. Follow up email sent to Tony at 5:26pm confirming details of phone complaint and inspection. Inspection Report submitted to Tony on 02/03/20 showing cracks identified and not worsened. Vibration monitor results received on 03/03/20 show compliance with structural levels.	Y
2003-CC003	9/03/2020 1:50pm	Jennifer Leslie (Resident)	Noise complaint received via phone call to Construction Manager Rob McLaughlin regarding noise prior to approved construction hours.	09/03/2020 1:58pm	BM	Built contacted Jennifer on her mobile number to discuss the issue. Jennifer stated that there was noisy vehicles and concerns of "loading of bricks and things in the morning" approximately between 4:30am to 6:30am. Upon review of CCTV footage, a large skip bin garbage truck and other heavy vehicle was seen on Bolton Street between 5-6:00am and not related to the Nihon Project. Built also spoke with Jennifer's neighbour Mark Hill, who confirmed the workers were related to a project on Bolton Street as he had confronted them that morning.	Y
2003-CC004	10/03/2020 4:06pm	Tony Lawler (Resident)	Tony lodged an additional complaint via email related to demolition works causing existing cracks to "enlarge" within his residence.	10/03/2020 4:23pm	BM	Built responded via email advising that vibration monitoring to date has shown compliant levels. It was requested that Tony submits photos of enlarged cracks for review by Structural Engineer prior to another inspection as it was found that all cracks were existing after his initial complaint. Built conducted 7 days of monitoring at Tony's residence between 13/03/2020 & 20/03/2020. Built issued Vibration Monitoring Report to Tony on 26/03/2020 showing that vibration results were well under the limits for both structural damage and human comfort.	Y

2003-CC005	19/03/2020 4:05pm	James Fletcher Hospital (JFH)	Architect/Superintedent notified Built of noise complaint lodged directly to DPIE regarding demolition works.	19/03/2020 4:40pm	BM	Built contacted JFH main contact, Nicole Halpin (Corporate Services Manager - Hunter New England Health) to discuss the complaint. Nicole advised that she was unaware of the issue and had received no internal complaints. Built conducted immediate spot check of demolition noise which showed works were within permissable noise limits. Built engaged acoustic consultant to conduct internal noise monitoring within JFH on 20/03/2020. Results came back compliant with construction noise limits & report was submitted to JFH for their records on 25/03/2020.	Y
2004-CC006	01/04/2020 12:59pm	Jane Bellemore & Cynthia Grahame (Resident)	Lodged complaint by email to Nihon community liaison address regarding vibration causing discomfort	02/04/2020 2:11pm	BM	Response email sent noting concerns and advising of Built monitoring activities to maintain compliance with vibration criteria and minimise disruptions. Advised the resident to contact if there are any further concerns or structural changes noted.	Y
2004-CC007	03/04/2020 9:24am	Jane Bellemore & Cynthia Grahame (Resident)	Lodged complaint by email to Nihon community liaison address regarding workers being spotted onsite without Hard Hats and not maintaining social distancing.	03/04/2020 10:22am	BM	Response email sent advising that Built takes HSE and social distancing measures seriously and that this concern has been immediately addressed with workers onsite. It must be noted that the workers were completing a pre-start talk and were outdoors in open space.	Y
2004-CC008	03/04/2020 1:16pm	Jane Bellemore & Cynthia Grahame (Resident)	Lodged complaint in relation to 2004-CN009 Extended Working Hours advising of the Environmental Planning and Assessment (COVID-19 Development – Construction Work Days) Order 2020 being implemented onsite.	06/04/2020 3:05pm	BM	Response sent by email noting concerns and frustration. Also advised that Built is continuing to follow Government advice in response to COVID-19, will continue to monitor the situation and implement required measures. - Refer also to Community Notice (2004-CN010) sent on 06/04/2020	Y
2004-CC009	03/04/2020 3:15pm	Keran Davis (Resident)	Lodged complaint in relation to 2004-CN009 Extended Working Hours advising of the Environmental Planning and Assessment (COVID-19 Development – Construction Work Days) Order 2020 being implemented onsite.	6/04/2020	BM	Refer to Community Notice (2004-CN010) sent on 06/04/2020.	Y
2004-CC010	03/04/2020 9:13pm	Catherine Turner (Resident)	Lodged complaint in relation to 2004-CN009 Extended Working Hours advising of the Environmental Planning and Assessment (COVID-19 Development – Construction Work Days) Order 2020 being implemented onsite.	6/04/2020	BM	Refer to Community Notice (2004-CN010) sent on 06/04/2020.	Y

2004-CC011	6/04/2020 10:04am	Jane Bellemore & Cynthia Grahame (Resident)	Lodged complaint in relation to alleged cracking of their property caused by groundworks onsite.	06/04/2020 12:20pm	BM	Built arranged for an inspection of the property to assess claim against conditions noted within Pre-Construction Dilapidation Report. Inspection completed by Structural Engineer on 08/04/2020 Inspection Report issued to the Resident on 09/04/2020 advising that in the Engineer's opinion, the cracks identified by the Resident were noted within the Pre-Construction Dilapidation Report and had not worsened. Resident disputed the findings of one of the identified cracks. Built responded that vibration monitoring of an adjacent property during the same period had demonstrated compliance with vibration criteria and that any disputes will be addressed after the completion and findings of the Final Dilapidation Reports required under the Development Consent Conditions. No further response received.	Y
2004-CC012	06/04/2020 1:40pm	Keran Davis (Resident)	Lodged complaint by email regarding extended working hours, social distancing, and a traffic management issue on 04/04/2020 (Saturday).	06/04/2020 4:13pm	BM	Referred the Resident to Community Notice (2004-CN010) for response to concerns regarding social distancing. Advised that the traffic management issue had been issued to the Site Team and Subcontractors for urgent action. Also requested that for any future issues, the Resident should contact Built PM or SM immediately to ensure matters are actioned quickly. Email received from City of Newcastle Councillor thanking Built for responding to the concerns of residents.	Y
2004-CC013	8/04/2020 9:48am	Michael Weightman (Employee - Newcastle Chambers)	Lodged complaint by email regarding noise caused by grinding activities onsite.	08/04/2020 11:58am	BM	Response stated Built's intention to minimise noise and conduct ongoing monitoring during construction, however, elimination of noise is not possible. Advised that structural demolition is nearing completion on the portion of site near his office. Note: Works were a short term activity located behind 2.4m plywood hoarding. No further response received	Y

2004-CC014	28/04/2020 2:42pm	Nicole Halpin (HNE)	Email correspondence received from HNE advising of internal complaints related to vibration causing activities and requesting information on construction monitoring activities and methodology mentioned within Community Notice (2004-CN011) Construction Progress Update 02.	28/04/2020 3:53pm	BM	Built responded via email advising of the current site activities and their expected completion date of 1st May and that previous monitoring had demonstrated compliance. Built also advised that vibration monitors had been collected on 28/04/20 and that the monitoring report would be submitted to HNE for transparency and their records. Built submitted the monitoring report to HNE on 01/05/2020 showing that the acceptable vibration dose levels for intermittent vibration related to human comfort had not been exceeded. No further issues raised.	Y
2005-CC015	21/05/2020 5:52am	Bernadette Connolly (Resident)	Email sent to Built Design Manager regarding noise when site personnel are arriving to site in the morning around 6:30am to 7:00am. Complaint specifically mentions noise generated by individuals talking as walking past the residence.	22/05/2020 3:38pm	BM	Email response sent advising of construction hours commencing at 7:00am and that Built would reinforce the need to be mindful of neighbours when arriving onsite of a morning. Resident responded with no further issues.	Y

Community Liaison Register

Built.

Project: Nihon University

Notices Register

Last Updated: 31/07/20

REF ID	DATE ISSUED	ISSUED TO	ISSUED BY	METHOD	DESCRIPTION	RESPONSES RECEIVED / DETAILS	CLOSED (Y / N)
1911-CN001	5/11/2019	ALL	SV	LETTER	Dilapidation Report request to nearby stakeholders - residents, businesses, etc.	Responses received from majority of stakeholders. Dilap reports completed by Engineer and submitted.	Y
1912-CN002	13/12/2019	James Fletcher Hospital	SV	MEETING	Consultation meeting with Hunter New England Health Management to discuss upcoming commencement of works, general scope, temporary fencing, boundary, etc.	Response received post-meeting that HNE Health would like the opportunity for NSW Dept. Public Works to review the works.	Y
1912-CN003	19/12/2019	ALL	BM	LETTER	Notice of commencement of works	NIL	Y
2001-CN004	21/01/2020	ALL	BM	EMAIL / LETTER	Notice of commencement of Asbestos removal	NIL	Y
2002-CN005	4/02/2020	Newcastle Police Station	BM / LA	MEETING	Meeting with Sgt Darren Holmes (Station Manager) to discuss shared lighting circuit requiring disconnection, noise mitigation & upcoming Work Zone Installation.	2002-CQ001	Y
2002-CN006	5/02/2020	NGS	BM	MEETING	Consultation meeting with Newcastle Grammar School Deputy Head of School & Director of Operations to discuss potential impacts and concerns regarding relocation of pedestrian crossing and proposed construction zone along Church Street site frontage.	Initial response was positive due to concerns around student & staff safety traversing past live site. Built issued additional information for review and suggested additional meeting if required.	Y
2002-CN007	19/02/2020	Newcastle Police Station	BM	LETTER	Formal notice of work zone installation	NPS raised concerns on lack of solution for parking of Correctional Services vehicles. Requested Built facilitate talks with CoN. Built facilitated discussions with CoN on 20/02/2020 & long term solution was agreed.	Y
2002-CN008	20/02/2020	ALL	BM	EMAIL & LETTER	Construction progress update including completion of Stage 1 asbestos removal, commencement of structural demolition, installation of work zone & pedestrian crossing	Response from Newcastle Grammar School thanking Built for notification and advised they will communicate the information to their parent body.	Y
2003-CN009	2/03/2020	HNE	BM/OR	MEETING	Meeting arranged with HNE & NSW Public Works representatives to discuss heritage wall retention works and other construction activities potentially affecting HNE James Fletcher Hospital	HNE Engineer Jason Thomas was the only attendee. Discussed all works and items. Built issued meeting minutes & retention design to HNE on 04/03/2020 for review and comment Deadline for HNE response is 27/03/2020. Response received from HNE on 27/03/2020 with no objections.	Y
2004-CN009	3/04/2020	ALL	BM	EMAIL / LETTER	Extended Construction Hours: Notice issued to all surrounding residents, businesses, and organisations advising of the introduction of the Environmental Planning and Assessment (COVID-19 Development - Construction Working Days) Order 2020. The notice advised that Built intended to enact this Order at Nihon University until further advice/notice received from the NSW Dept. Planning, Industry and Environment	Community complaints received from Residents on Church Street. These are referenced below. 2004-CC007 2004-CC008 2004-CC009 2004-CC010 2004-CC012 In response to the community concerns, Built issued additional Community Notice (2004-CN010).	Y

2004-CN010	6/04/2020	ALL	BM	EMAIL / LETTER	Community Response to Extended Construction Hours: Notice issued to surrounding residents, businesses, and organisations advising that in response to community responses received related to 2004-CN009, Built will be extending working hours on Saturday's only in the short term and that any changes will be communicated in advance.	Additional responses were received, however, all were still in relation to extended working hours. Built has continued to implement the revised extended working hours on Saturday's and COVID-19 prevention measures onsite in accordance with Government advice.	Y
2004-CN011	22/04/2020	ALL	BM	EMAIL / LETTER	Construction Progress Update 02: - Noted establishment of Church Street Hoarding. - Advised of structural demolition progress - Advised of commencing piling / retention works in SW corner of the site on 27/04/2020. - Advised of piling method (CFA) to minimise noise and vibration. - Advised of planned Water Main Upgrade works commencing in late May 2020.	NIL	Y
2005-CN012	15/05/2020	HNE	BM	EMAIL	Notice to HNE James Fletcher Hospital regarding commencement of Temporary Ground Anchor Works to new retaining wall as discussed onsite with HNE, dwp, and Built in March 2020 (REF 2003-CN009) and per the design approved by NSW Public Works (reference email received from N. Halpin on 26/03/2020)	HNE response on 18/05/2020 ensuring HNE Engineering is aware of what is occurring on their property. Built (BM) contacted HNE for phone discussion to clarify and followed up with email on 18/05/2020. No outstanding issues.	Y
2006-CN013	4/06/2020	HWC	BM	MEETING	Pre-Commencement Meeting held onsite at Nihon University with Hunter Water, dwp Australia, Metiri Consultants, Built, and Murphy Plumbing to discuss the upcoming watermain upgrade works.	Hunter Water & Metiri Consultants advised of pre-commencement documentation to be submitted prior to commencing works. All actions closed and approval received.	Y
2006-CN014	5/06/2020	NPS	BM	MEETING/EMAIL	Site Meeting held with Newcastle Police Station to advise of and discuss upcoming road / lane closures on Church Street during Hunter Water works and erection of Tower Crane. Post-meeting, Built submitted the TMPs to NPS for information and comment if required.	No additional feedback / comments received. No further action.	Y
2006-CN015	5/06/2020	ALL	BM	EMAIL	Additional Community Notice issued to residents and businesses advising of Hunter Water Upgrade & Crane Erection works commencing.	Received one query from a resident requesting additional information. Received query from HNE James Fletcher Hospital clarifying if their driveway access would be affected. Built issued a Staging Plan and additional information on the works. No further comments received. No further action.	Y
2006-CN016	24/06/2020	HNE	BM	MEETING	Site Meeting and inspection held with Hunter New England Health, dwp Australia, Built, and Murphy Plumbing to discuss upcoming Sewer Main Upgrade requiring access to HNE property.	HNE granted access permission and requested additional notice prior to commencing works.	Y
2007-CN017	28/07/2020	ALL	BM	EMAIL	Construction Progress Update 03 - General update on progress and upcoming works including concrete pours (and related lane closures) and the 21 day notice for water main connection works.	NIL	Y
2007-CN018	29/07/2020	HNE	AM	EMAIL	Email correspondence with HNE regarding upcoming water main connection and potential disruptions to HNE James Fletcher Hospital.	Ongoing coordination with HNE contacts to ensure water connection does not cause disruption to normal operations.	N

Community Liaison Register

Built.

Project: Nihon University

Queries Register

Last Updated: 31/07/20

REF ID	DATE / TIME RECEIVED	RECEIVED FROM	DESCRIPTION	DATE / TIME RESPONDED	RESPONSE BY	DESCRIPTION	CLOSED (Y / N)
2002-CQ001	4/02/2020	Newcastle Police Station	Request for sound baffling installed to L1, 2, 3 Balcony Windows due to meeting held on 03/02/2020	4/02/2020	BM	Confimed that BUILT can organise an inspection by Acoustic Consultant and provide an appropriate solution. Acoustic solution provided by Consultant is to install acoustic door seals.	Y
2002-CQ002	19/02/2020	Newcastle Police Station	Request for Built to facilitate talks with City of Newcastle regarding long term solution for Correctional Services vehicle parking	19/02/2020	BM	Built has scheduled onsite meeting with Newcastle Police Station & City of Newcastle for 20/02/2020 to discuss solutions. City of Newcastle agreed to provide permanent parking on Watt Street for required vehicles.	Y
2003-CQ003	03/03/2020 1:04pm	Andrew Russell	Email received from Andrew Russell. Spoke with Built Foreman onsite regarding blanked out pedestrian crossing and concerns around pedestrian safety due to lack of signage & physical barriers warning common users that the crossing is no longer in place. Forwarded email sent to City of Newcastle expressing same concerns plus stating that Built had traffic control personnel onsite directing pedestrians which was good to see. Advised Council that additional signage should be implemented	04/03/2020 10:35am	BM	Response email sent acknowledging concerns and advising that Built is working with Council to ensure signage is installed ASAP. City of Newcastle responded on 09/03/20 with additional requirements originally not requested during consultation. All actions closed out.	Y
2003-CQ004	26/03/2020 5:19pm	Jack Strachan	Email sent to Structural Engineer responsible for completing Pre-Construction Dilapidation Report on the property requesting that vibration causing activities be noted for Post-Construction Dilapidation Inspection.	27/03/2020	BM	Noted by Built & Engineer. No further correspondence received.	Y
2004-CQ005	01/04/2020 12:21pm	John Pasterfield	Email sent to Nihon community liaison address advising of vibration felt within their residence caused by a loaded vehicle entering site	02/04/2020 2:06pm	BM	Response email sent noting concerns and advising of Built monitoring activities to maintain compliance and minimise disruptions. Advised the resident to contact if there are any further concerns or structural changes noted. No further response received.	Y
2004-CQ006	01/04/2020 12:47pm	Keran Davis	Email sent to Nihon community liaison address advising that vibrations were felt at various times throughout the day.	02/04/2020 2:08pm	BM	Response email sent noting concerns and advising of Built monitoring activities to maintain compliance and minimise disruptions. Advised the resident to contact if there are any further concerns or structural changes noted. No further response received.	Y

2005-CQ008	18/05/2020	Newcastle Grammar School	Phone call to Built & follow up email notifying Built that construction vehicles (trucks) were standing in the school drop off/pick-up zone. Noted this was prior to school zone hours and requested an alert to be raised with Built & Subcontractors to ensure no issues moving forward.	19/05/2020 9:24am	OR	Built immediately instructed Subcontractors on 18/05/2020 not to use this zone at any time. Follow up email sent to NGS advising them of action taken and acknowledging concerns. NGS had no further issues.	Y

Appendix C – Internal Audit Records

Site Inspection

Details

Form id	138978
Created at	08/07/2020
Completed at	08/07/2020
Last modified	20/07/2020 10:54:23
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	Newcastle Fitout
Department	
Project	Nihon University Newcastle Campus
Subcontractor	
Type of Site Inspection	Supervisor Inspection

Built Attendance

Include the person who is logged in as well.

Name
Benjamin Moss

Others in attendance

Subcontractor Name	Persons Name

Areas or Locations Inspected *Identify the area/s reviewed during the inspection. The may include; whole of project, certain levels or certain locations.*	Whole of Site
Summary of inspection *This may include; common checks, activities or items reviewed, good practices observed or general commentary of the inspection.* *Note; all actions need to be registered in the "Actions" area at the bottom of this page.*	- Church Street Work Zone clean. - Traffic Control in accordance with TMP. - Convex mirrors installed to gates as a safety initiative. - Sediment control measures in place on Church Street. - Vehicle/Truck Logs being completed and witnessed. - Footpath clean and clear. - Hoarding and project signage in place and in good condition. - Building A: displays good housekeeping and access paths clear. - Building A: Edge protection in place. - Building B: exclusion zones/flagging in place near edges/penetrations. Penetrations covered, though not strictly in accordance with BSMS. - Building B: task lighting required in some rooms on Level 1. - Building B: Electrical leads hung on hooks and stands. - Building B: Displays good housekeeping. - Building C: Housekeeping requires improvement. Excess materials stored in access paths and located around the site. - Building C: Penetrations covered, though not strictly in accordance with BSMS. - Building C: Waste being segregated in bins onsite. - Building C: Dangerous Goods Cages onsite for Plumber. - Building C: Flagging in place to demarcate work areas and mobile plant. - Building C: Mobile plant logbooks signed.

Site Inspection

High Potential Hazard Reporting

High Potential Classification ***Select from the drop down list those which apply. Use the Add button to add one line per issue***	Trade/Process ***State the trade who has been identified as being responsible for the hazard. If unknown please state 'Unknown'***	Comments ***Describe the situation that is classified as High Potential***

Site Inspection

Additional

Photos



Building C Gate & Workzone

Site Inspection



Truck Log

Site Inspection



Church St Footpath

Site Inspection



Building A Gate

Site Inspection



Building A - Church St Footpath

Site Inspection



Building A site

Site Inspection



Building B - Level 1 Flagging around flooring removal

Site Inspection



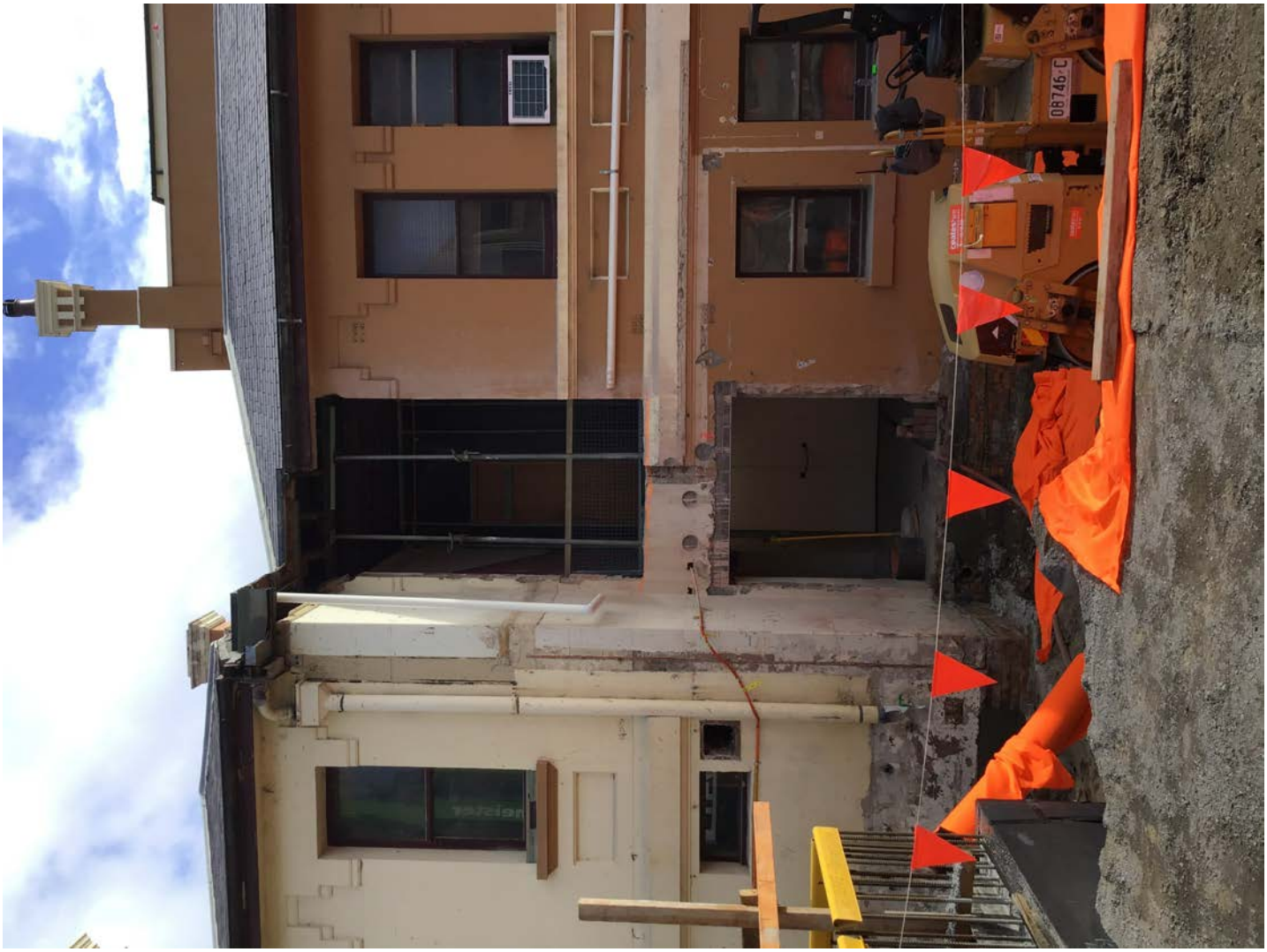
Building B - Leads on hooks

Site Inspection



Building C - Segregation of waste

Site Inspection



Building C - Flagging in the foreground & edge protection on Building B Level 2

Site Inspection



Building B - Level 2 penetration fenced, signs applied, and covered.

Attachments

- *No file attachments*

Actions Summary

ID	First name	Last name	Due date	Date closed	Action description	Status	Last Comment
36214	Robbie	Clydesdale	09/07/2020	20/07/2020	Instruct personnel to tidy all work areas and ensure access paths are kept clear. CDMT & Pinnacle to clean excess materials and place in skip bins.	Closed	
36215	Liam	Tamsett	09/07/2020	09/07/2020	Penetrations to be marked with 'PENNO" and in accordance with BSMS. Ensure all pennos are checked.	Closed	

Actions

ID: 36214 **Due date:** 2020-07-09 **Status:** Closed

Actionee: Robbie Clydesdale **Date closed:** 2020-07-20

Action description: Instruct personnel to tidy all work areas and ensure access paths are kept clear. CDMT & Pinnacle to clean excess materials and place in skip bins.

Site Inspection



Housekeeping & trip hazards

Attachments

- *No file attachments*

ID: 36215 **Due date:** 2020-07-09 **Status:** Closed

Actionee: Liam Tamsett **Date closed:** 2020-07-09

Action description: Penetrations to be marked with 'PENNO" and in accordance with BSMS. Ensure all pennos are checked.



Level 2 Penno

Attachments

- *No file attachments*

Site Inspection

Details

Form id	142507
Created at	23/07/2020
Completed at	23/07/2020
Last modified	23/07/2020 09:20:22
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	Newcastle Fitout
Department	
Project	Nihon University Newcastle Campus
Subcontractor	
Type of Site Inspection	Supervisor Inspection

Built Attendance

Include the person who is logged in as well.

Name
Benjamin Moss

Others in attendance

Subcontractor Name	Persons Name

Areas or Locations Inspected	Whole of Project

Identify the area/s reviewed during the inspection. The may include; whole of project, certain levels or certain locations.

Site Inspection

Summary of inspection

This may include; common checks, activities or items reviewed, good practices observed or general commentary of the inspection.
Note; all actions need to be registered in the "Actions" area at the bottom of this page.

CHURCH STREET:
- Work Zone & Footpath clean and clear.
- Hoardings & temporary lightings in good condition with no sign of damage.
- Project signage fixed to hoardings, highly visible, and in good condition.
- Hand sanitiser station & COVID-19 signage located at the main personnel gate.
- Sediment control in place to gutters.
- Traffic control in place with appropriate signage and personnel in place.
- Convex mirrors installed at each gate.
- Vehicle / Truck Logs in place at each gate and being completed.

BUILDING A:
- Access paths clear.
- Housekeeping is good with materials stored appropriately.
- High-vis barriers delineating areas.
- Edge protection in place.
- Temp switchboard has current test tag.
- Scaffold has current scaff tag & screen protection.
- Safety station is current and in good condition.
- Plant onsite is inducted and books signed.
- Vehicle Gate has a motor installed as safety initiative.
- Fire Extinguisher in place.

BUILDING B:
- Areas & access paths clean.
- Materials stored in designated areas.
- Heritage items protected.
- Floor/entry protection in place.
- Amenities and breakrooms clean and stocked with sanitary consumables (soap, sanitiser, etc.)
- Safety & COVID-19 signage in place.
- Temporary propping secured.
- Edge protection is in place at rear of Building B (terrace area).
- Flagging in place to demarcate trip hazard areas.
- Temp switchboards have current test tag.
- Penetrations covered in accordance with BSMS.

BUILDING C:
- Access paths clear and delineated.
- Generator and temp switchboard have current test tags.
- Fire extinguisher in place.
- Safety Station in good condition.
- Work areas are demarcated with flagging.
- Crane dogmen/riggers spotting loads and advising of lifts. Communicating well.
- Plant & machinery inducted and books signed.
- Materials stockpiled, stored appropriately, and watered as required.
- Dangerous Good Cage onsite, in good condition, and lockable.
- High visibility markers for trip hazards (e.g. pile reinforcement).
- Scaffold has current scaff tag.
- Waste materials segregated in skips (general waste, metals, etc.).

High Potential Hazard Reporting

High Potential Classification ***Select from the drop down list those which apply. Use the Add button to add one line per issue***	**Trade/Process** ***State the trade who has been identified as being responsible for the hazard. If unknown please state 'Unknown'***	**Comments** ***Describe the situation that is classified as High Potential***

Site Inspection

Additional

Photos



Mirror, Stop/Slow Bat, Truck Log Folder at vehicle gate

Site Inspection



Traffic signage on Bolton Street

Site Inspection



Traffic signage on Church Street looking East

Site Inspection



Traffic signage at Church & Newcomen Street intersection

Site Inspection



Footpath & gantry adjacent to Building A

Site Inspection



Church Street footpath, gantry, signage, and traffic control at Building C gate

Site Inspection



Safety Station

Site Inspection



Clear access path & scrap metal bin

Site Inspection



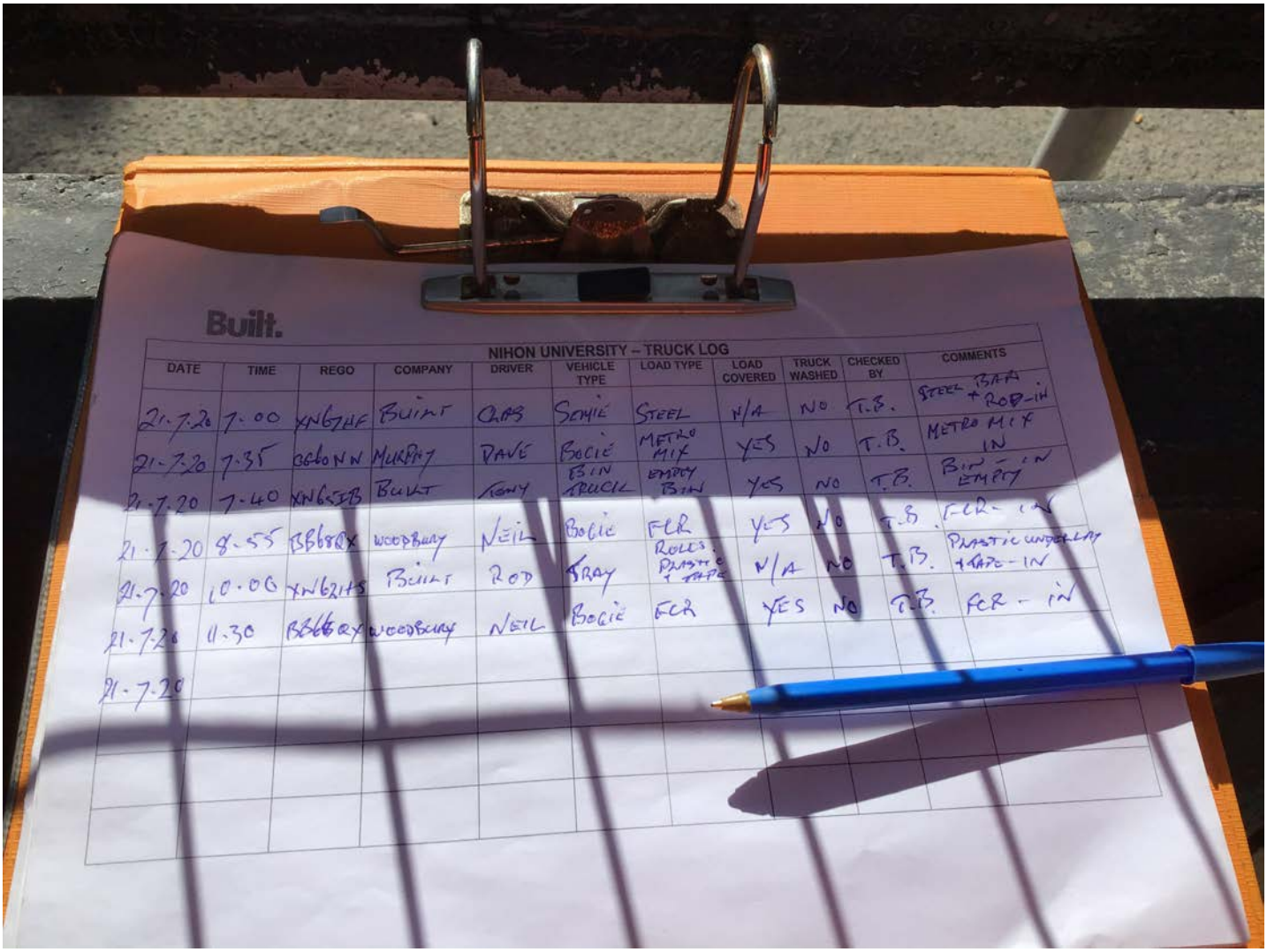
Hi-vis barricades as demarcation and edge protection.

Site Inspection



Scaffold with screen protection

Site Inspection



Truck Log

Site Inspection



Materials stored appropriately and neatly

Site Inspection



Materials stacked neatly, stockpiles watered & segregated, mesh screen fixed to fencing in good condition, skip bin located adjacent to work area and lid closed.

Attachments

- *No file attachments*

Actions Summary

ID	First name	Last name	Due date	Date closed	Action description	Status	Last Comment

Actions

Meeting

Details

Form id	143822
Created at	29/07/2020
Completed at	29/07/2020
Last modified	29/07/2020 16:08:51
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	Newcastle Fitout
Department	
Project	Nihon University Newcastle Campus
Subcontractor	
Type of Meeting	Project Team Meeting
Title of Activity, Process or Section of Work Being Reviewed	Review of CEMP & Sub-Plans

Built Attendance

Built Staff and CW's
Benjamin Moss
Michael Louis
Leif Aleksic

Others in Attendance

Name	**Company**

Meeting

Minutes of Meeting

Exclude any actions from this field

CONSTRUCTION WORKER TRANSPORTATION STRATEGY:
- Current, no changes required.
- Included in inductions.

CONSTRUCTION WASTE MANAGEMENT SUB-PLAN:
- Demolition Management Plan to be removed due to the completion of this stage of works. Relevant sections to be amended accordingly.
- Waste management measures implemented are still current and effective.

CONSTRUCTION TRAFFIC & PEDESTRIAN MANAGEMENT SUB-PLAN:
- Buildings/Gates to be changed to suit new layout (Buildings A & C swapped).
- Updated TCP's for concrete pours to be inserted into Sub-Plan.
- Control measures implemented are still current and effective. Improvements have been implemented onsite (fixed traffic signage, mirrors, additional pedestrian signs).

CONSTRUCTION NOISE & VIBRATION MANAGEMENT SUB-PLAN:
- RAPT noise monitoring due on 5/8/2020 (3 monthly).
- Control measures implemented are still current and effective.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN:
- Inductions are adequate for general environmental training and education of workers.
- Section 8 to be updated to reflect amendments to Waste Management Sub-Plan.
- Control measures implemented are still current and effective.

Additional

Photos

Attachments

- *No file attachments*

Actions Summary

ID	First name	Last name	Due date	Date closed	Action description	Status	Last Comment
37282	Benjamin	Moss	07/08/2020		Demolition Management Plan to be removed from the CWMP & relevant sections amended.	Open	
37283	Benjamin	Moss	07/08/2020		Add updated Traffic Control Plans to CTPMSP and amend building labels.	Open	
37284	Benjamin	Moss	07/08/2020		Update CEMP Section 8.0 to reflect amendments to CWMP	Open	

Meeting

Actions

ID: 37282 **Due date:** 2020-08-07 **Status:** Open

Actionee: Benjamin Moss **Date closed:**

Action description: Demolition Management Plan to be removed from the CWMP & relevant sections amended.

Attachments

- *No file attachments*

ID: 37283 **Due date:** 2020-08-07 **Status:** Open

Actionee: Benjamin Moss **Date closed:**

Action description: Add updated Traffic Control Plans to CTPMSP and amend building labels.

Attachments

- *No file attachments*

ID: 37284 **Due date:** 2020-08-07 **Status:** Open

Actionee: Benjamin Moss **Date closed:**

Action description: Update CEMP Section 8.0 to reflect amendments to CWMP

Attachments

- *No file attachments*

PROJECT NAME:	**Nihon University**
PROJECT ADDRESS:	**9 Church Street, Newcastle**
DATE OF REVIEW:	**27.07.2020**
REVIEWER:	**Michael Louis**
REVIEWER CONTACT DETAILS:	**0421 844 024**

1. Formwork Systems are to be designed by a qualified engineer in accordance with the requirements set out in *AS 3610 – Formwork for Concrete* and *AS 3600 – 2009 Concrete Structures:*

Ref	Findings	Recommendations
	Vertical elements such as walls and columns, documentation has been verified and saved on the S:Drive	**Awaiting final table form documentation from Oakdale – Level 2 shop drawings currently under review by Consultants.**

2. A copy of the Formwork design documentation is to be held on site and is to include:

- The engineer's name and qualification;
- Any necessary preparation of the foundation (e.g. filling, compaction drainage);
- Any footing design assumptions, such as foundation material description, safe bearing values, limitations on settlement during erection of formwork;
- Plans, elevations or sections sufficient to depict the arrangement of formwork and to identify/locate all members, components and bracing including;
    - component types and spacing;
    - maximum jack extensions;
    - bearer and joist timber type, dimensions and spacing
    - prop sizes and maximum extensions;
    - form ply size, thickness and grade;
    - methods for tying the structure together and spacing between ties (if required);
- Details sufficient to fully describe important or unusual features of the design;
- The areas of the forms designed to carry stacked loads together with the maximum allowable load, and the minimum strength of concrete to be achieved prior to materials being stacked, including maximum allowable point loading to be applied and any additional propping requirements at any specific loading area;
- Sequence of concrete placement and minimum elapsed time between adjacent placements;
- Where required, location of weep holes, vibrator holes, clean-out holes and inspection openings;
- Footing design where not placed on structural concrete slabs;
- Identification of proprietary formwork items/systems;
- Back propping required after formwork removal;
- Certification or engineer’s design documents for lifting points for formwork shutters:

Ref	Findings	Recommendations
-	**Vertical elements such as walls and columns, documentation has been verified and saved on the S drive**	**Awaiting final table form documentation from Oakdale – Level 2 shop drawings currently under review by Consultants.**

3. All materials and equipment used in formwork must be fit for the intended purpose, meet design specifications and comply with relevant Australian Standards, evidence of which should be made available by the supplier:

Ref	Findings	Recommendations
-	**Inspection of formwork elements that have been used on site to date meet these requirements.**	**Continue monitoring as suspended formwork begins.**

4. The installation, erection and dismantling of formwork is to be performed by appropriately trained and competent persons:

Ref	Findings	Recommendations
-	**Form workers supplied by Oakdale are competent.**	**Copy of Oakdale training and competency register still must be provided.**

5. All engineered formwork is to be erected and used in accordance with the manufacturer's instructions:

Ref	Findings	Recommendations
-	**Formwork engineer inspections will verify installation upon completion prior to pour**	-

6. Base plates are to be provided under props and standards on formwork frames unless the prop or standard has an integral foot or a competent engineer documents that a base plate is unnecessary:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

7. Sole boards designed to suit the ground conditions shall also be used under props and standards on natural ground, unless a competent engineer documents otherwise:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

8. Frames and props must be located on a firm base which is ground that will not subside, fail or get washed away. Adequate drainage for stormwater run-on/run-off shall be provided to prevent scouring of formwork foundations and footings. Where foundations are located on batters, these need to be protected against scour by directing drainage away from the base of frames:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

9. As the erection of frames continues, designated access ways are to be indicated by the use of bunting or by other means. However, areas underneath where formwork is incomplete or otherwise unsafe to access (e.g., during concrete pour) are to be isolated by signage and suitable barriers to ensure no unauthorised access:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

10. Temporary lighting is to be installed in all access ways with emergency exit signs in place:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

11. The risk of falling more is to be controlled during the installation of Formwork Systems and may include:

- **Working from underneath** which may include platform ladders and mobile scaffold;
- **Intermediate working decks** may be constructed in a manner similar to a final formwork deck (that is, using bearers, joists and sheeting) or may be a further extension of a catch platform;
- **Temporary working platforms** must be a minimum of 450 mm wide (2 planks) as required by AS 1576; Temporary working platforms should be erected on the horizontal cross members of the frames. Cleats can be used to prevent planks from slipping off the frames;
- **Catch platforms** may be temporary working platforms that are extended and may be built from a combination of bearers, sheeting and planks or metal transoms and planks;
- **Handrails/Guardrails** at the perimeter of the building or deck openings must be at least 900 mm in height above the final working surface and have a top rail, mid rail / Kick Board;
- **Scaffolding** complete with guardrails and toeboards can provide effective protection against falls at the perimeter of a building, providing the guardrail of the scaffolding extends at least 900 mm in height above the proposed finished concrete level. The scaffold platform should be positioned or constructed to prevent persons or materials falling between the scaffold platform and the edge of the formwork;
- **Perimeter Screens** consisting of an outer mesh screen erected at the edge of the concrete slab to protect personnel erecting and dismantling formwork and other trades associated with the construction of the concrete slabs and columns and to contain materials on the upper floors prior to the installation of a safety handrail system or other fall prevention system.

Note: The use of fall arrest harness systems to arrest a fall and travel restraint harness systems are impractical for formwork system installation as the leading edge is constantly changing, requiring the length of the travel restraint line to be continually adjusted therefore requiring multiple lanyard anchorage points to be installed. Also, the greater the number of workers building the formwork deck increases the likelihood of lines becoming tangled:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

12. A certificate from a qualified engineer is to be obtained for all completed formwork, as defined in this BSMS, prior to concrete placement and is to include:

- The engineer's name
- Project name
- An inspection date no greater than 2 working days prior to the proposed pour
- Location of formwork (e.g. level, area)
- A statement saying:

"This is to certify that the Formwork identified as _____for the above project has been inspected and is considered to be adequate to support the design loads in accordance with the

relevant Australian Standards including AS 3610 Formwork of Concrete. The works have been inspected and is considered to be adequate to support the design loads in accordance with the relevant SAA Codes.

Note: All remedial work identified during an inspection of the formwork is to be completed and verified as complete by an appropriate, competent person. Re-inspection of remedial work by the engineer is to be as directed by the engineer.

Ref	Findings	Recommendations
-	**Formwork engineer inspections will verify installation upon completion prior to pour**	-

13. Sufficient exclusion zones are to be established during concrete pours to suspended formwork:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

14. A competent person should be appointed to monitor underneath the formwork during the concrete pour:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

15. Access routes between formwork frames are to be delineated, well-lit and clear from trip hazards:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

16. Formwork shall not be stripped until verification of sufficient concrete strength is obtained in writing form the engineer:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

17. Formwork stripping shall be undertaken by appropriately trained persons:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

18. Sufficient exclusion zones shall be established prior to the commencement of stripping:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

19. All formwork material shall be stripped in a controlled manner. No material is permitted to be dropped during the stripping of formwork (no drop stripping):

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

20. All material shall be de-nailed before stacking:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

21. The reinforcement storage locations are to be in accordance with information supplied by the formwork engineer and must be capable of supporting the placing of reinforcing/stressing equipment and material to be installed. Additional propping and or support locations may be required, e.g., placing of coil:

Ref	Findings	Recommendations
-	**Will verify once suspended formwork is erected**	-

22. Reinforcement workers are not permitted to be within Formwork exclusion zones.
Bar caps or other means of protection are to be placed on the end of strands when not in use:

Ref	Findings	Recommendations
-	**Verified for in ground current works and shutters.**	-

23. A sufficient exclusion zone by use of signage and appropriate barricading is to be established around the unstrapped stressing strand coil and support frame (Bripac) during stressing operations:

Ref	Findings	Recommendations
-	**NA**	-

24. Anti-burst reinforcement must be installed for all post tensioning systems:

Ref	Findings	Recommendations
-	**NA**	-

25. Strands are to be placed inside a conduit at distance not greater than 4 meters from the Bripac feed and no greater than 4 meters from the strand pusher;

Ref	Findings	Recommendations
-	**NA**	-

26. All penetrations greater than 225mm X 225mm are to have steel mesh cast in during construction with size of mesh to suit penetration span and approved by engineer:

Ref	Findings	Recommendations
-	**NA**	-

27. Initial stress shall not exceed 30% of final stress:

Ref	Findings	Recommendations
-	**NA**	-

28. Stressing is not commenced until:

- written confirmation is received from an appropriate person that concrete compression tests indicate appropriate transfer strength has been reached:

Ref	Findings	Recommendations
-	NA	-

- exclusion zones of at least 2 meters are established with barricades and signage erected at all live and anchorage ends of tendons being stressed:

Ref	Findings	Recommendations
-	NA	-

- a compliant impact absorbing barricade is established behind the jack (In the case of double live end tendons, ensure that barricades are erected at both ends even if only stressing from one end):

Ref	Findings	Recommendations
-	NA	-

- the stressing area has been appropriately flagged and warning signs displayed:

Ref	Findings	Recommendations
-	NA	-

- a trained observer is present to monitor the anchorage end during stressing and a line of communication can be maintained:

Ref	Findings	Recommendations
-	NA	-

- no persons are standing between the jack and the impact absorbing barricade and within 2 meters of any live or anchorage ends:

Ref	Findings	Recommendations
-	NA	-

- the operator has checked that the area has been cleared and there is no person standing between the jack and the barricade or within 2 m of any live end anchorage:

Ref	Findings	Recommendations
-	NA	-

- the operator has ensured that there are adequate clearances available for the jack to prevent possible skewing or lifting during stressing:

Ref	Findings	Recommendations
-	NA	-

- concrete compression tests indicate transfer strength has been reached. Advice should be confirmed in writing if possible:

Ref	Findings	Recommendations
-	**NA**	-

- All exposed reinforcement bar ends are to be capped:

Ref	Findings	Recommendations
-	**Exposed reo on site is capped**	**Monitor as structure progresses**

29. Concrete placing units are to be registered via the Built plant induction process (HSE-050):

Ref	Findings	Recommendations
-	**All boom pumps verified as being inducted and recorded on lucidity**	-

30. Concrete placing units (truck mounted with boom) must be registered with Relevant Statutory Authority:

Ref	Findings	Recommendations
-	**All boom pumps verified as being inducted and recorded on lucidity. Part of this process is verifying regulator registration.**	-

31. Consultation must occur with other operators' plant such as the tower crane, prior to the set-up of concrete placement booms:

Ref	Findings	Recommendations
-	**Consultation occurs via toolbox**	-

32. Concrete pump line thicknesses test certificates are to be confirmed as adequate (minimum of 2mm thickness for lengths of pipe, note elbows are required to have a thicker minimal thickness) and obtained on a regular basis:

Ref	Findings	Recommendations
-	**Verified before each set up**	-

33. Concrete kibbles are to have a current lifting certificate:

Ref	Findings	Recommendations
-	**Kibble on site has all inspection and testing records available.**	-

34. The operator of a truck mounted concrete boom pump and static boom pumps must hold the required certificate of competency (e.g. high-risk work licence):

Ref	Findings	Recommendations
-	**Verified at induction**	-

35. Barricading/signage is to be installed so as to ensure no workers are allowed to access the immediate area beneath the section of formwork during concrete placement activities:

Ref	Findings	Recommendations
-	**Ongoing monitoring during pours**	**Built foremen to verify and record in lucidity.**

- Concrete placement boom pumps shall:
    - not come into contact with scaffolding, structure or plant;
    - not be used as a crane;
    - not be erected until stabilisers/outriggers are established and locked in position;
    - Maintain safe distances from power lines;
    - have the boom folded in the travel position before raising the outriggers, when making any positioning adjustments;
    - be established in a sufficiently level and solid so as to ensure safe operation;
    - not lift, drag, luff upwards or slew the concrete placement boom in any direction if the concrete delivery line is:
        - Stuck or caught on an object;
        - Are connected to two or more pieces of concrete line (metal or rubber)
        - Not in sight of the operator:

Ref	Findings	Recommendations
-	**Verified prior to set up**	-

36. Concrete placement boom pump stabilisers/outriggers shall:
    - Have stabilisers/outriggers set out in areas free from excavations, trenches or holes in the ground, inadequately compacted or soft ground, cellars, basements, pits or back-filled ground, unless approved in writing by a qualified engineer
    - Barricading around outriggers to eliminate worker moving into slew zone
    - Have adequate packing of sufficient strength and load bearing area available for the outrigger stabiliser pads.
        - Packing may include engineered bog mats or suitable timbers.
        - The use of loose softwood timbers is not recommended;

- Be fully extended;
    - if outriggers are not fully extended, the reduced safe operating radius must be known and recorded;
    - regular inspections of the outrigger pads to check for subsidence and loss of stability:

Ref	Findings	Recommendations
-	**Verified prior to set up**	-

37. Where the general public are in close proximity to any part of the concrete placement operation, consideration should be given to:
    - the endorsed traffic and pedestrian management plan
    - directing the public to an alternative footpath, or providing an alternative pathway
    - the installation of protective screens to prevent concrete splashing on the public
    - the installation of a suitable ramps over concrete placement lines

- the erection of barricades and warning signs necessary to comply with council requirements:

Ref	Findings	Recommendations
-	**All pours to date have been from inside the site boundary**	**Monitor when pours occur from work zones.**

38. All concrete placement plant and accessories are to be visually inspected prior to the commencement of concrete placement:

Ref	Findings	Recommendations
-	**Part of the built plant induction process**	-

39. The wall thickness of each pipeline segment shall be tested using ultrasonic testing instrument or other suitable methods determined by the manufacturer and not exceed 30 days and with a register to keep wall thickness results:

Ref	Findings	Recommendations
-	**Verify prior to pour**	-

40. All concrete lines joints are to be clamped and fixed closed prior to concrete placement.

- Includes 'R' pins in quick clamps and bolts through fixed lines
- No metal couplings are to be at the end of the concrete placement line
- Rubber lines here connected to a boom are to be secured by a safety chain, sling or other retaining device;
- The length of flexible hose suspended from a concrete boom pump must be in accordance with the manufacturers specifications the length of hose may vary due to the diameter of the hose

    - 3 metres for 125mm diameter pipe;
    - 4 metres for 100 diameter pipe

Ref	Findings	Recommendations
-	**Verify prior to pour**	-

41. To prevent damage to the boom, the boom is not to be luffed upwards or slewed whilst there is more than 3m (for 125mm hose) and 4m (for 100mm hose) suspended from the end of the boom at any time. This is particularly important that the boom is not moved in any way when the hose is filled with concrete:

Ref	Findings	Recommendations
-	**Verify during set up**	-

42. The rubber delivery end-hose should:

- Where connected to a boom, secured by a safety chain, sling or other retaining device;
- Be inspected for excessive wear or damage prior to being fitted;
- Not be longer than specified by the pump manufacturer;
- Delivery hose end has no metal sleeve:

Ref	Findings	Recommendations
-	**Confirmed this has been verified on pours to date**	-

43. Concrete placement plant is to be disengaged (switched off) when hoses are being connected or disconnected:

Ref	Findings	Recommendations
-	**Confirmed this has been verified on pours to date**	-

44. Concrete placement lines are to be 'blown' in a controlled manner and is to be controlled so as to ensure no workers are in the immediate vicinity whilst this operation is taking place;
    - Excess concrete is to be placed in the appropriate location;
    - Excess concrete is not to have reinforcement bar inserted into it and used for the purpose of lifting;
    - Continual monitoring of boom and hoses by boom operator:

Ref	Findings	Recommendations
-	**Confirmed this has been verified on pours to date**	-

45. Perimeter Screens generally consist of an outer mesh screen erected at the edge of the concrete slab to protect personnel erecting and dismantling formwork and other trades associated with the construction of the concrete slabs and columns and to contain materials on the upper floors prior to the installation of a safety handrail system or other fall prevention system. They eliminate the need for perimeter scaffolding:

Ref	Findings	Recommendations
-	**NA**	-

46. Perimeter screens are to by designed by a qualified engineer:

Ref	Findings	Recommendations
-	**NA**	-

47. A copy of the Perimeter Screen design documentation, including the design loadings on the cantilevered support needles (or other means) and the reaction loads on the supporting structure are to be obtained by a qualified engineer prior to the approval to install perimeter screens:

Ref	Findings	Recommendations
-	**NA**	-

48. Perimeter screens are to be installed by persons competent in the particular screen system being installed. At least one person in the installation team must hold a recognised rigger's certificate:

Ref	Findings	Recommendations
-	**NA**	-

49. Where the installation, jumping or removal of perimeter screens is to involve the crane crew, each member of the crew is to be inducted into the safe work procedures and or instructions to carry out the task safely:

Ref	Findings	Recommendations
-	**NA**	-

50. Prior to the installation, jumping or removal of perimeter screens exclusion zones shall be installed so as to prevent unauthorised persons entering the exclusion zone and shall remain in place until the screen installation is complete:

Ref	Findings	Recommendations
-	**NA**	-

51. A handover certificate/ checklist is to be obtained once the screens have been installed to verify the screens have been installed in accordance with the manufacturer's requirements and that ALL LOCKING DEVICES ARE ENGAGED:

Ref	Findings	Recommendations
-	**NA**	-

52. A pre-removal checklist is to be obtained by Built prior to removal of perimeter screens in which the rigger should check all mechanical locking latches are engaged prior to commencing screen removal:

Ref	Findings	Recommendations
-	**NA**	-

Noise Level Spot Check Report **Date:** 23/07/20

Assessor Name and Position: Michael Louis/HSEC

People Present: Michael Louis

Equipment Used: QM 1598 **Calibration Date: 23/07/20**

Area/location of noise monitoring: Location 1 – 20 Church Street, Location 2 – 38 Church Street, Location 3 – Hospital adjacent to site.



Sources of noise (including background noise):

Location 1 – Crane in operation, excavators in operation, passing traffic, main source of noise was a barking dog tied up outside the police station.

Location 2 – Piling works, truck movements, excavator in operation, passing traffic.

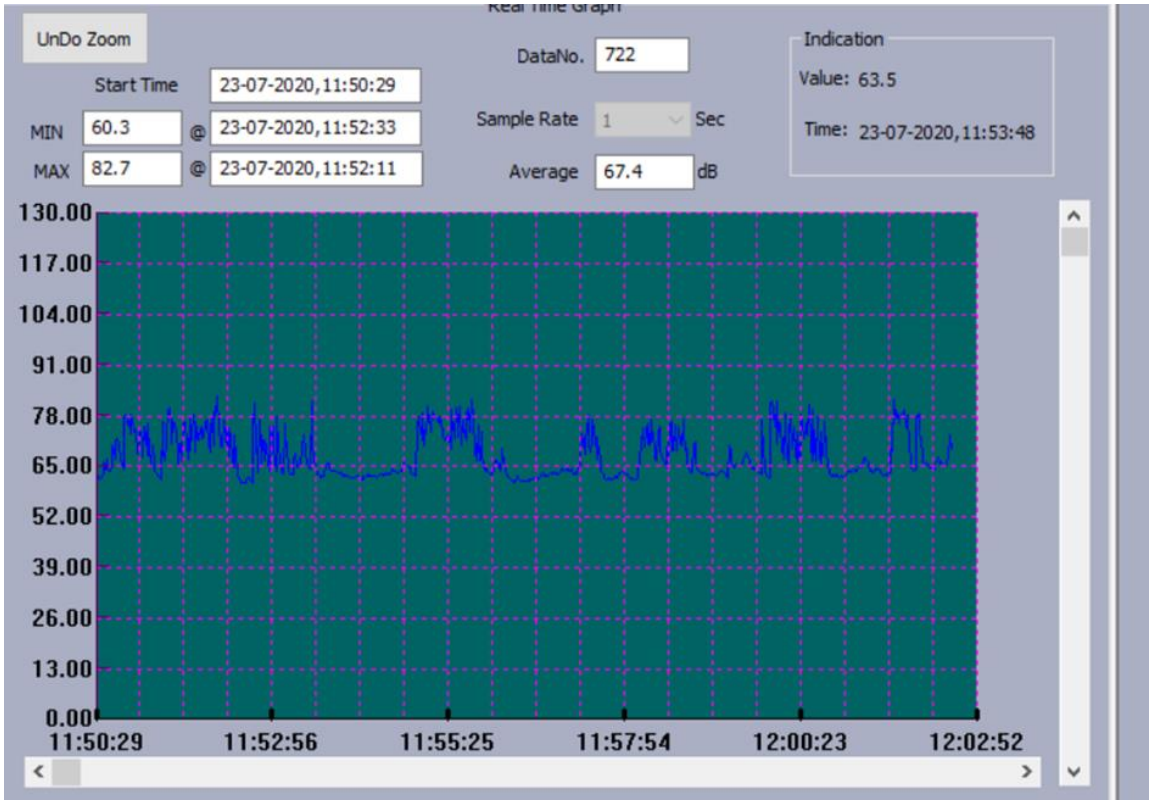
Location 3 – Piling works, excavator in operation.

Sensitive Receivers (prior complaints and reports): 38 Church Street, 20 Church Street are sources of previous complaints.

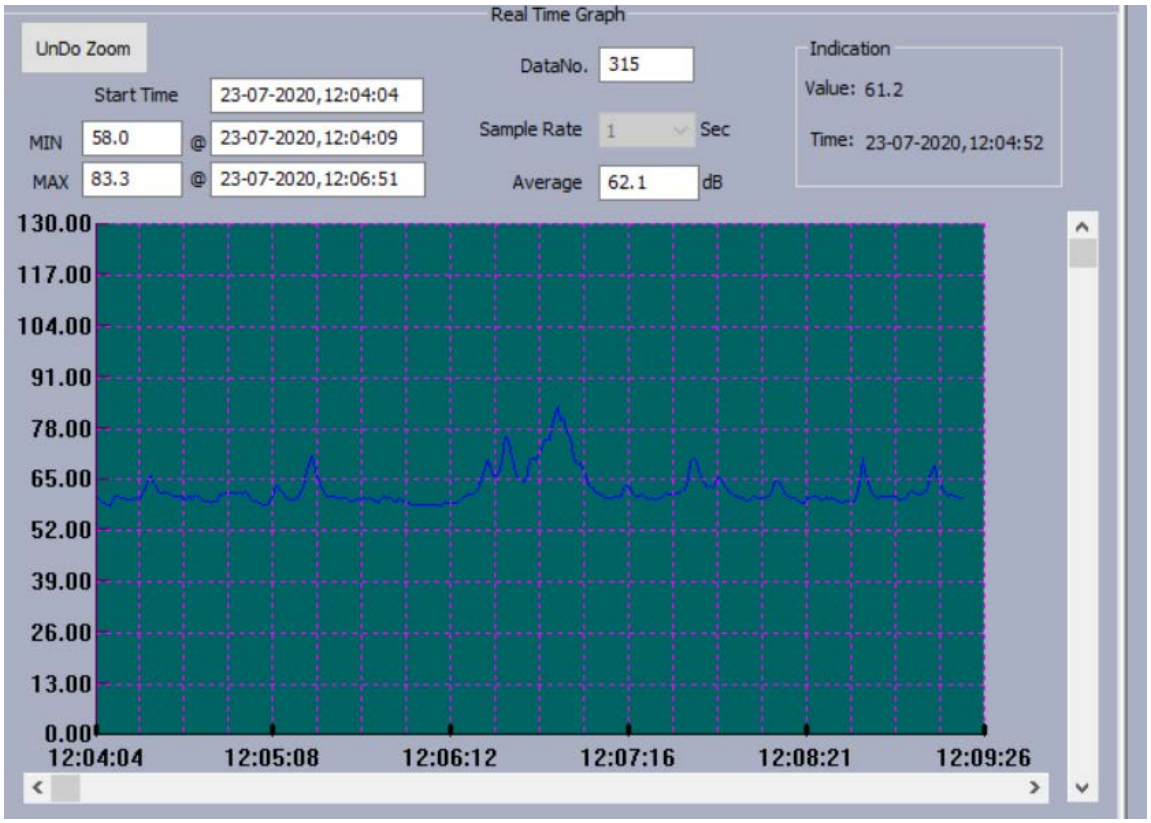
Is this monitoring being conducted as a result of a complaint? If yes, provide brief details: No

Results:

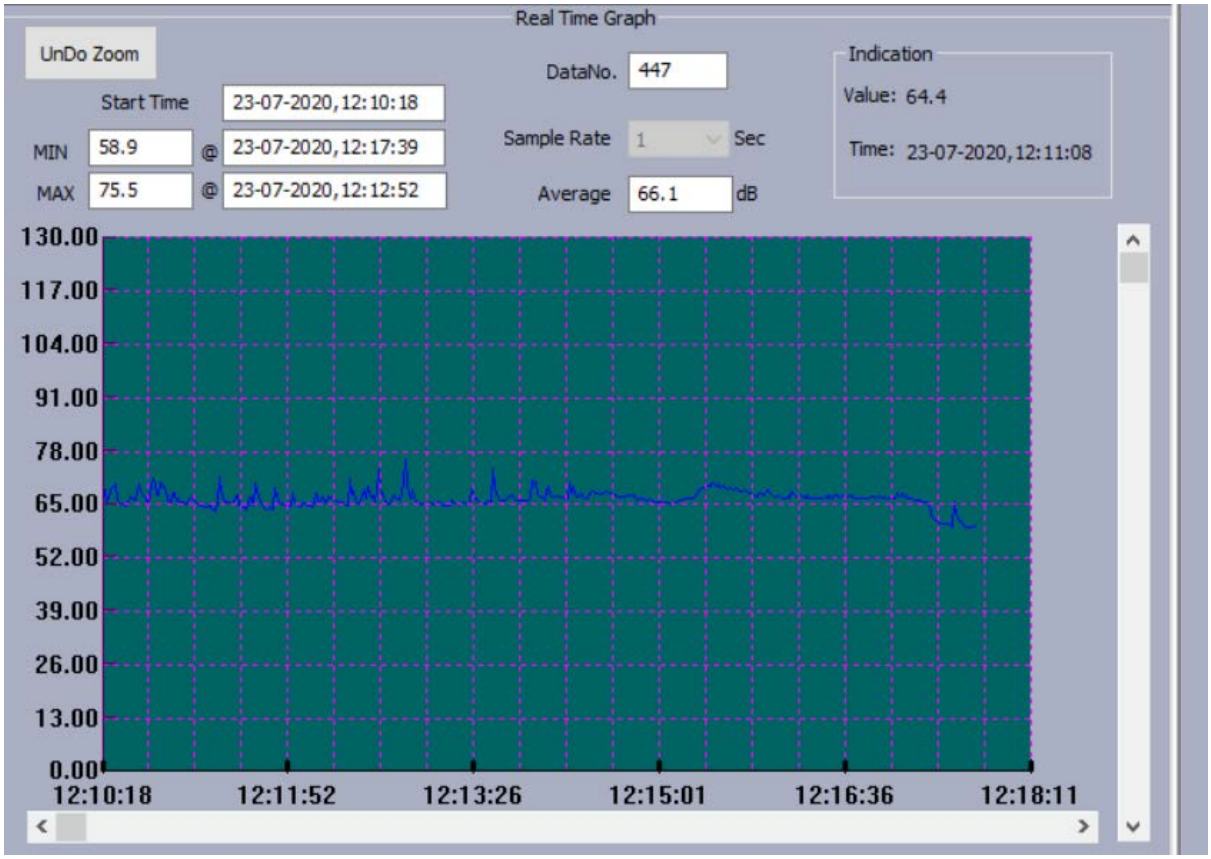
Location 1



Location 2



Location 3



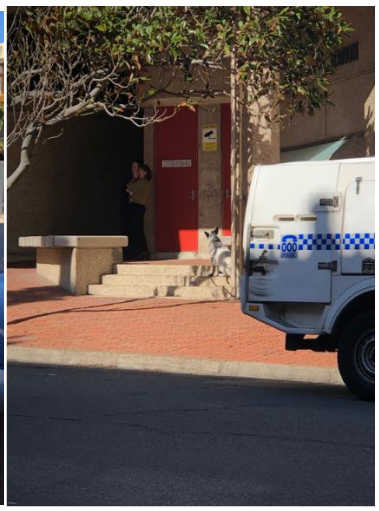
Noise Assessment Report Summary:

Average readings are within required criteria limits for construction related noise.

(Attach Photos of Monitoring Locations)

Location 1





Location 2



Location 3



BASELINE CONSTRUCTION NOISE DATA & CRITERIA

Table 4 Attended noise monitoring summary

Location	Date	Start Time	Period[1]	L_{Aeq}	L_{A90} (RBL)	L_{Amax}	Comments
L1 Corner of Bolton & Church Streets	17/4/19	11:52	Day (7am – 6pm)	58	49	80	Urban hum (nearby fans, pumps, etc.) and distant traffic noise consistent. Car passbys frequent. Bird noise, aircraft noise, pedestrian noise and wind in trees occasionally.
	17/4/19	21:45	Evening (6pm – 10pm)	56	45	75	Urban hum (nearby fans, pumps, etc.) and insects consistent. Distant traffic, car passbys and nearby hotel noise frequent. Resident noise, pedestrian noise and dog barking occasionally.
	17/4/19	22:15	Night (10pm – 7am)	55	45	71	Urban hum (nearby fans, pumps, etc.) and insects consistent. Distant traffic and car passbys frequent. Pedestrian noise occasionally.

Table 5 Noise management levels for residential land use

Time of day	NML, $L_{Aeq\ 15min}$	Notes
Recommended Standard Hours: Monday to Friday 7:00am to 6:00pm Saturday 8:00am to 1:00pm No work on Sundays or public holidays	Noise affected: RBL + 10 dB(A)	May be some community reaction to noise. • Where the predicted or measured construction noise level exceeds the noise affected level, all feasible and reasonable work practices should be applied to meet the noise affected level. • All residents potentially impacted by the works should be informed of the nature of the works, the expected noise levels, and duration, and provided with site contact details.
	Highly noise affected: 75 dB(A)	May be a strong community reaction to noise. • Where construction noise is predicted or measured to be above this level, the relevant authority may require respite periods that restrict the hours that the very noisy activities can occur. • Respite activities would be determined considering times identified by the community when they are less sensitive to noise, and if the community is prepared to accept a longer period of construction to accommodate respite periods.
Outside recommended Standard Hours	Noise affected: RBL - 10 dB(A)	• A strong justification would typically be required for works outside the recommended standard hours. • The proponent should apply all feasible and reasonable work practices to meet the affected noise level. • Where all feasible and reasonable practices have been applied and noise is more than RBL - 10 dB(A) above the affected noise level, the proponent should negotiate with the affected community.

Table 12 Construction noise source power levels

Equipment	Quantity (worst case per 15-min period)	Sound power level per item, $L_{Aeq,\ 15\ minute}$ (dB)[1]
Demolition, earthworks & piling		
Piling rig	1	116
Excavator including rock-hammer	1	120
Excavator	2	105
Compactor	1	106
Dozer	1	108
Roller (up to 20T)	1	107
Truck & Dog	2	104
Structural works		
Concrete trucks	3	108
Concrete pump	1	110
Crane	1	99
Delivery truck	1	106
Power tools	4	105
Hand tools	Numerous	102
Internal fit-out and civil works		
Concrete trucks	3	108
Crane	1	99
Delivery truck	1	106
Hand tools	Numerous	102
Generator	1	99

Table 13 Construction noise predictions

Representative Receiver	Distance	Indicative predicted noise level $L_{Aeq,\ 15\ minute}$	Construction noise goal $L_{Aeq,\ 15\ minute}$
Nearest residences (to north)	20-105m	Demolition and earthworks 74-88 dB Structural works 66-81 dB Internal fit-out and civil works 66-80 dB	Noise affected: 59 dB (Recommended standard hours) Highly noise affected: 75 dB
Commercial / Offices	5-105m	Demolition and earthworks 74-100 dB Structural works 66-93 dB Internal fit-out and civil works 66-92 dB	70 dB (when in use)
Hospitals	5-105m	Demolition and earthworks 74-100 dB Structural works 66-93 dB Internal fit-out and civil works 66-92 dB	55 dB (when in use)

Noise Level Spot Check Report

Date: 30/07/20

Assessor Name and Position: Michael Louis/HSEC

People Present: Michael Louis

Equipment Used: QM 1598 **Calibration Date: 23/07/20**

Area/location of noise monitoring: Location 1 – 20 Church Street, Location 2 – 38 Church Street, Location 3 – Hospital adjacent to site.



Sources of noise (including background noise):

Location 1 – Crane in operation, excavators in operation, passing traffic.

Location 2 – Piling works, truck movements, excavator in operation, passing traffic.

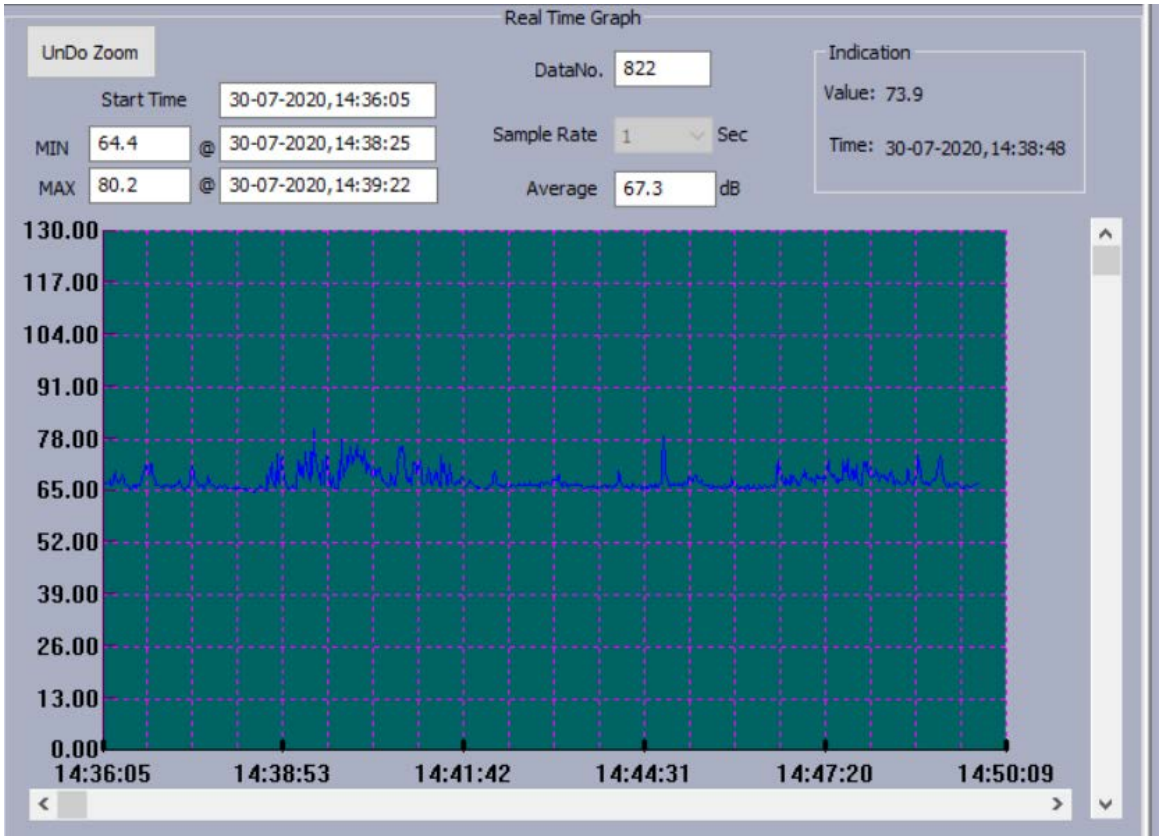
Location 3 – Piling works, excavator in operation.

Sensitive Receivers (prior complaints and reports): 38 Church Street, 20 Church Street are sources of previous complaints.

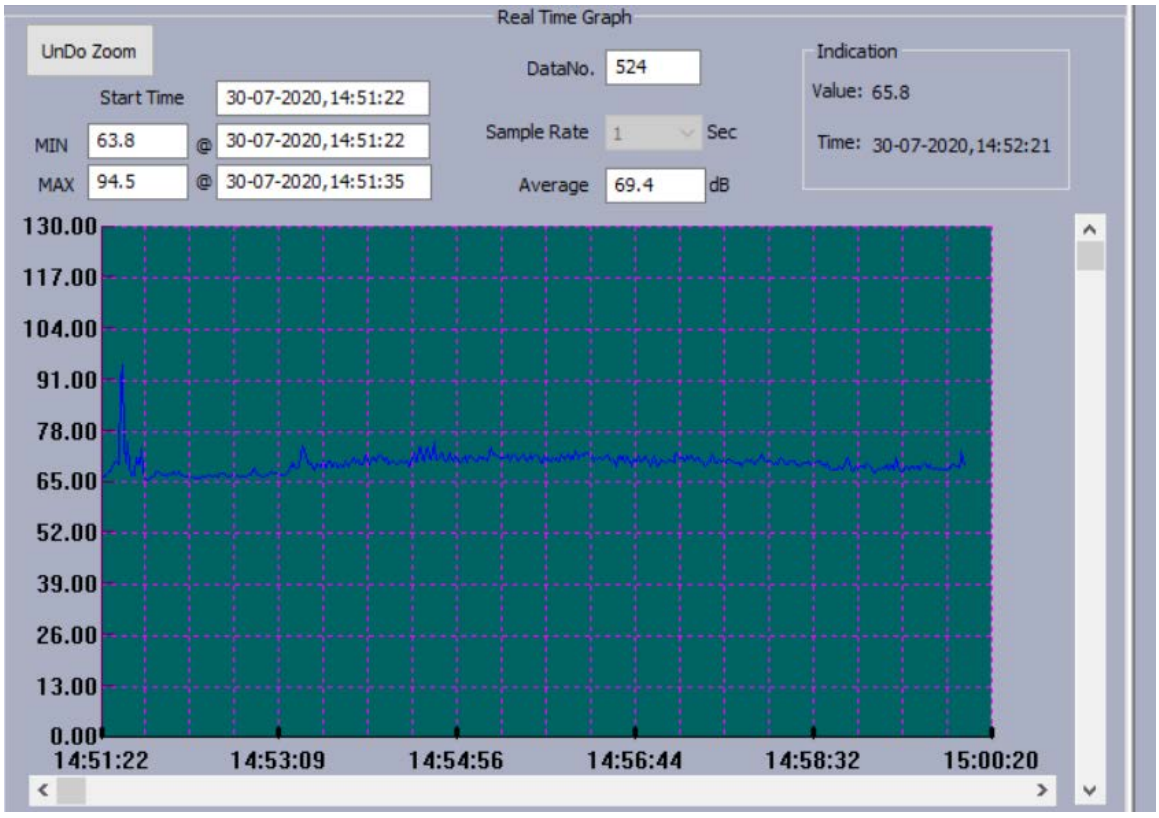
Is this monitoring being conducted as a result of a complaint? If yes, provide brief details: No

Results:

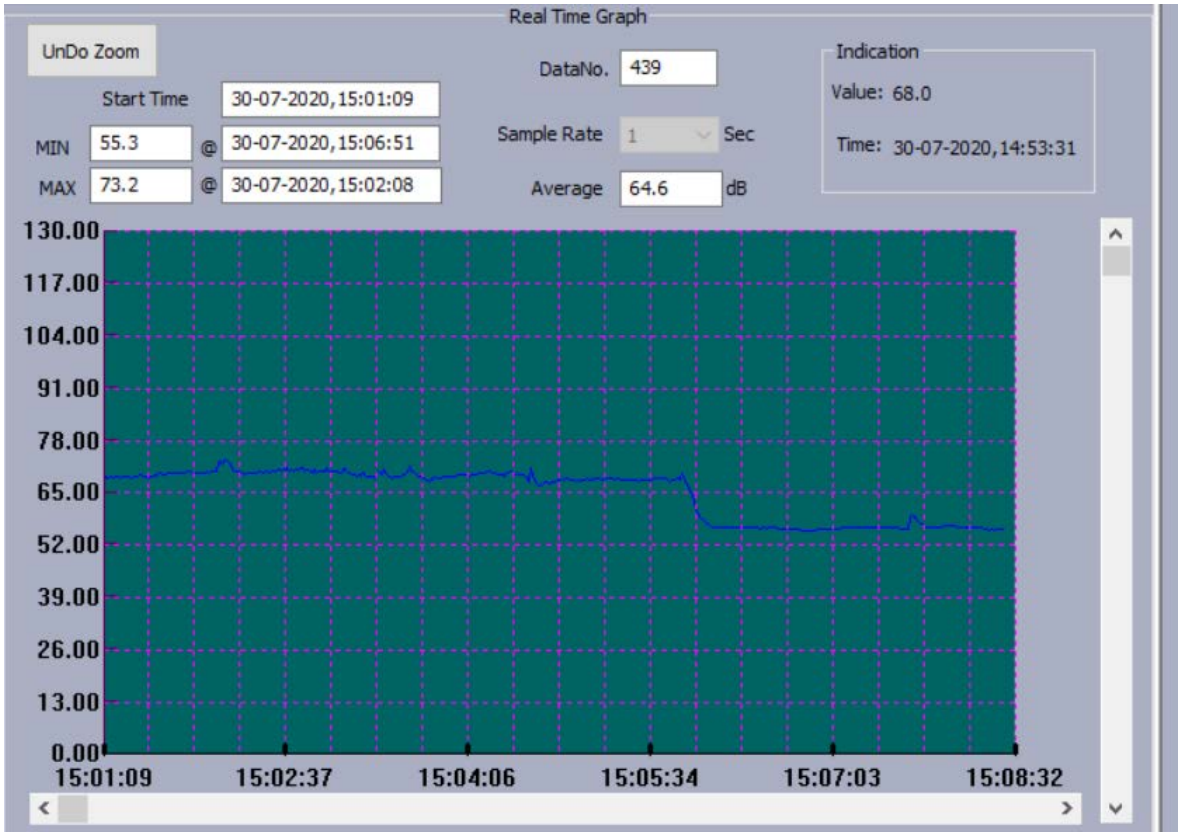
Location 1



Location 2



Location 3



Noise Assessment Report Summary:

Average readings are within required criteria limits for construction related noise.

(Attach Photos of Monitoring Locations)

Location 1



Location 2



Location 3



BASELINE CONSTRUCTION NOISE DATA & CRITERIA

Table 4 Attended noise monitoring summary

Location	Date	Start Time	Period[1]	L_{Aeq}	L_{A90} (RBL)	L_{Amax}	Comments
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Commercial / Offices	5-105m	Demolition and earthworks 74-100 dB Structural works 66-93 dB Internal fit-out and civil works 66-92 dB	70 dB (when in use)
Hospitals	5-105m	Demolition and earthworks 74-100 dB Structural works 66-93 dB Internal fit-out and civil works 66-92 dB	55 dB (when in use)

Site Inspection

Details

Form id	142608
Created at	23/07/2020
Completed at	23/07/2020
Last modified	23/07/2020 11:19:12
Status	Complete
Respondent	Michael Louis
Division	NSW
Business unit	NSW Fitout
Department	
Project	Nihon University Newcastle Campus
Subcontractor	WOODBURY CIVIL PTY LIMITED
Type of Site Inspection	Environmental Inspection

Built Attendance

Include the person who is logged in as well.

Name
Michael Louis

Others in attendance

Subcontractor Name	Persons Name

Areas or Locations Inspected *Identify the area/s reviewed during the inspection. The may include; whole of project, certain levels or certain locations.*	Building C
Summary of inspection *This may include; common checks, activities or items reviewed, good practices observed or general commentary of the inspection.* *Note; all actions need to be registered in the "Actions" area at the bottom of this page.*	Inspection of operating excavator. Working within safe noise levels for operator and surrounding workers. Working below threshold in manual. Peaked at 71.7 dBA over a 5 minutes period. Machine is in good condition , no leaks and is well maintained.

High Potential Hazard Reporting

High Potential Classification ***Select from the drop down list those which apply. Use the Add button to add one line per issue***	**Trade/Process** ***State the trade who has been identified as being responsible for the hazard. If unknown please state 'Unknown'***	**Comments** ***Describe the situation that is classified as High Potential***

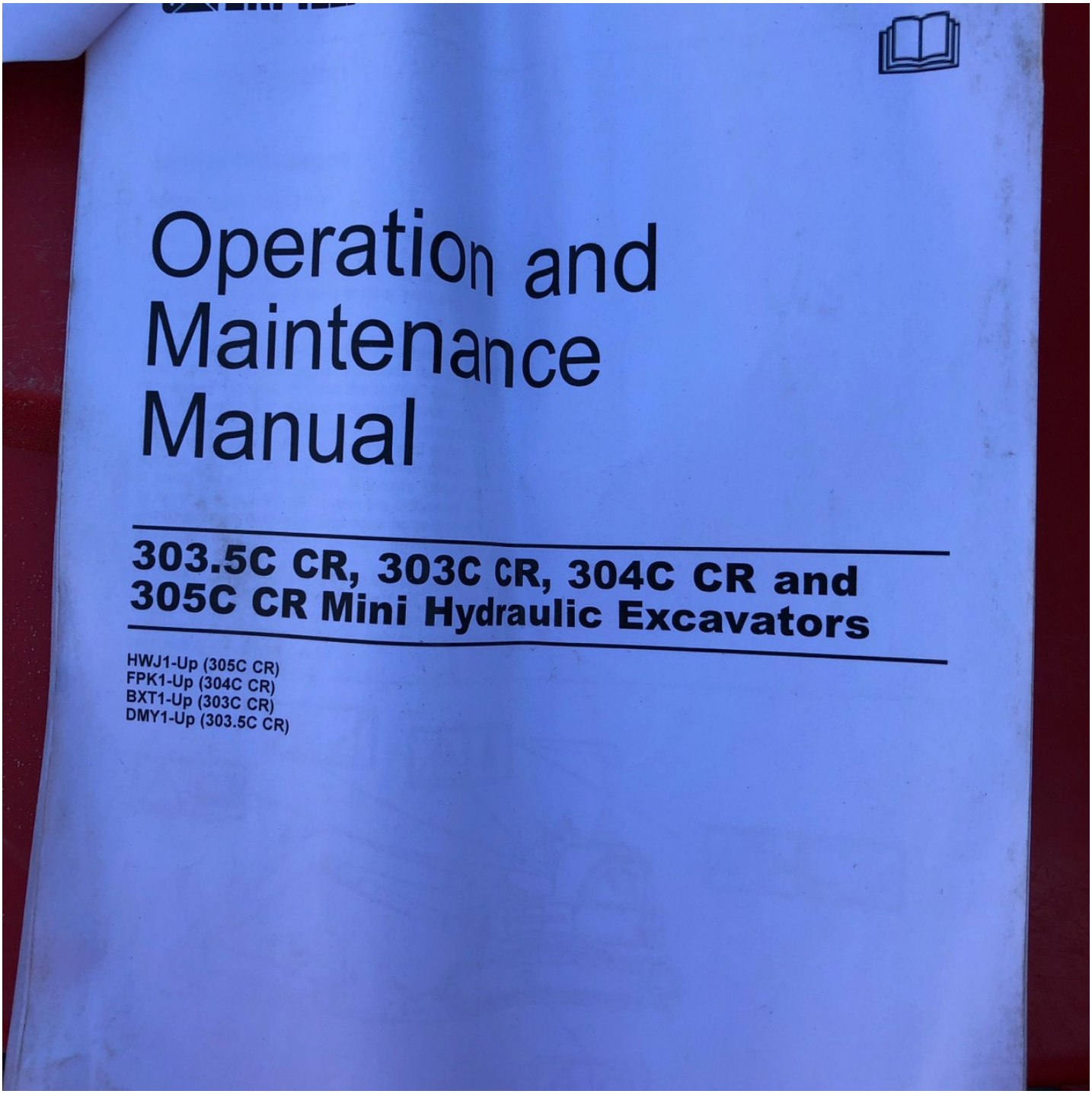
Site Inspection

Additional

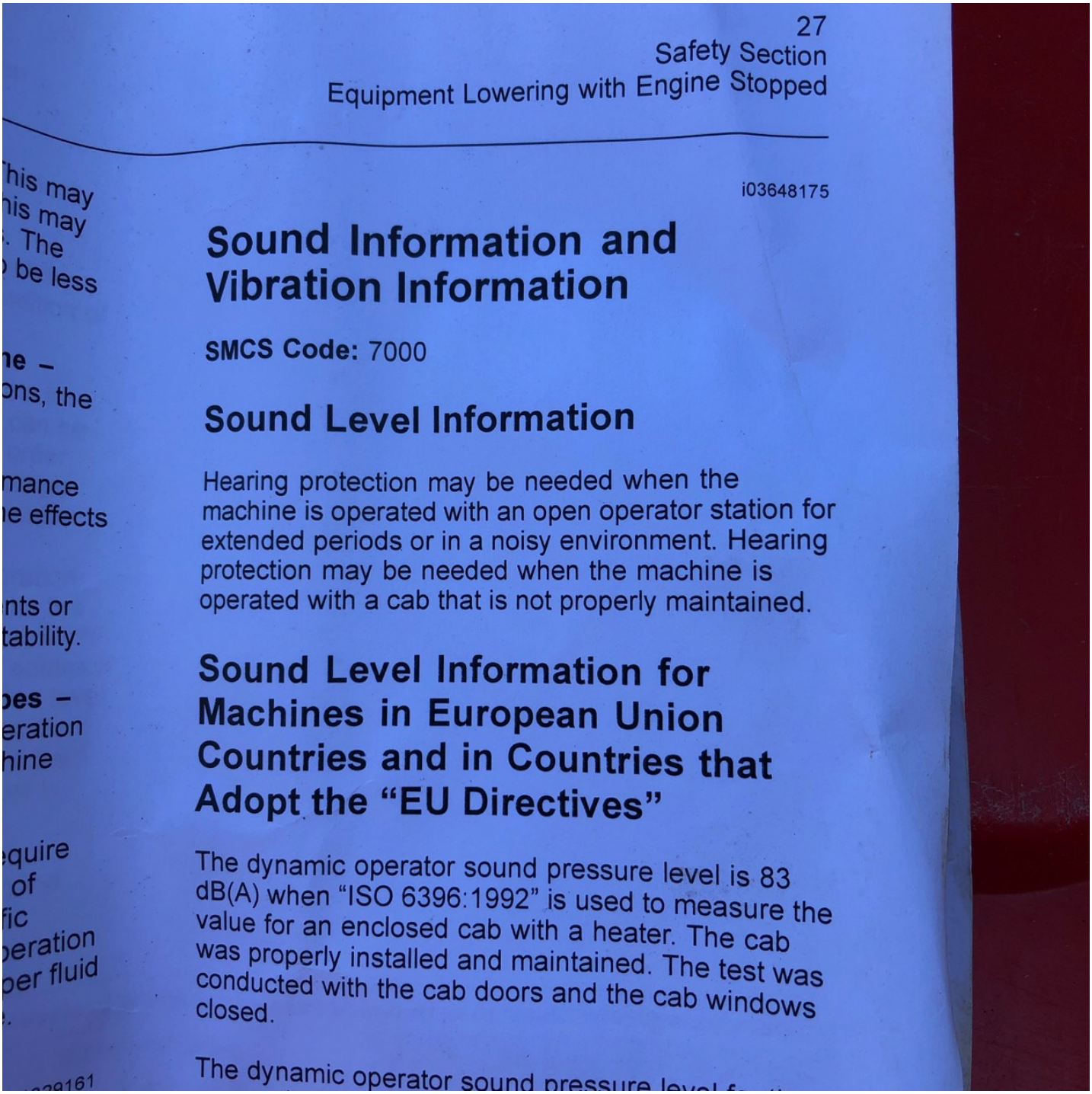
Photos



Site Inspection



Site Inspection



27
Safety Section
Equipment Lowering with Engine Stopped

i03648175

Sound Information and Vibration Information

SMCS Code: 7000

Sound Level Information

Hearing protection may be needed when the machine is operated with an open operator station for extended periods or in a noisy environment. Hearing protection may be needed when the machine is operated with a cab that is not properly maintained.

Sound Level Information for Machines in European Union Countries and in Countries that Adopt the "EU Directives"

The dynamic operator sound pressure level is 83 dB(A) when "ISO 6396:1992" is used to measure the value for an enclosed cab with a heater. The cab was properly installed and maintained. The test was conducted with the cab doors and the cab windows closed.

The dynamic operator sound pressure level

Attachments

- *No file attachments*

Actions Summary

ID	First name	Last name	Due date	Date closed	Action description	Status	Last Comment

Actions

Construction Surveillance Checklist
Routine Minor/Major Works

Construction Inspection *(complete at each inspection, use multiple sheets as required)*	Yes	No	NA
Works are being carried out within approved hours (7am-6pm Mon-Fri, 8am-1pm Sat).	☑	☐	☐
SWMS reviewed and signed by all workers (contractor to confirm).	☑	☐	☐
Appropriate PPE is being worn by all workers.	☑	☐	☐
Existing services have been located and protected.	☑	☐	☐
Traffic control and public safety measures are in place.	☑	☐	☐
Machinery and stockpiles are located outside of the excavation zone of influence.	☑	☐	☐
Trenches deeper than 1.5m have been battered, benched, or supported.	☐	☐	☑
Working at heights, overhead hazards, and confined spaces safety measures are in place.	☐	☐	☑
Erosion and sediment controls are in place.	☑	☐	☐
Noise, vibration, and dust controls are in place.	☑	☐	☐
Property access has been maintained to nearby properties.	☑	☐	☐
Temporary pedestrian pathways have been provided.	☑	☐	☐
Flushing water is being disposed of appropriately.	☑	☐	☐
Acid sulfate and/or contaminated soil treatment plans prepared and implemented.	☐	☐	☑
REF mitigation measures implemented.	☑	☐	☐
Inspection and Test Plans implemented on site and witness/hold points released as required.	☑	☐	☐
NCRs issued and/or previous NCRs closed out.	☐	☐	☑
RFIs logged and/or previously issued RFIs responded to and closed out.	☐	☐	☑
Products/materials comply with design drawings and HWC standards (contractor to confirm).	☑	☐	☐
Products/materials appear in good condition and free from defects.	☑	☐	☐
Thrust blocks are being constructed in accordance with design drawings.	☐	☐	☑
Trench stops/bulk heads are being installed in accordance with design drawings.	☐	☐	☑
Sewer mains are being laid on grades specified in design drawings.	☐	☐	☑
Minimum pipe cover requirements specified on design drawings are being achieved.	☐	☐	☑
Marker/tracer tape is being provided over new pipework.	☐	☐	☑
Acceptance testing and handover requirements reiterated with contractor's representative.	☑	☐	☐

Inspection notes (discuss the works that were being carried out and by whom. List any issues, NCRs, RFIs etc.)

- Water testing being carried out. Arrived @ 2 PM
- Chlorine added to main 10mL/L.
- Field testing carried out by ALS. Passed.
- Left at 3:30. Water was still @ 250 kPa. They were waiting for it to get to 1000kPa for 30mins before leaving.

Completed By:		Date:	1/07/20

Close-out Requirements *(complete at the conclusion of works, leave blank if works ongoing)*	Yes	No	NA
Restoration inspection carried out and photos taken.	☐	☐	☐
Contractor handover checklist and documentation received.	☐	☐	☐
Project handed back to office staff for project finalisation.	☐	☐	☐

Completed By:		Date:	

Suite 5, 1 The Boulevarde, Toronto NSW 2283
4550 5995 mail@metiriconsultants.com.au
metiriconsultants.com.au

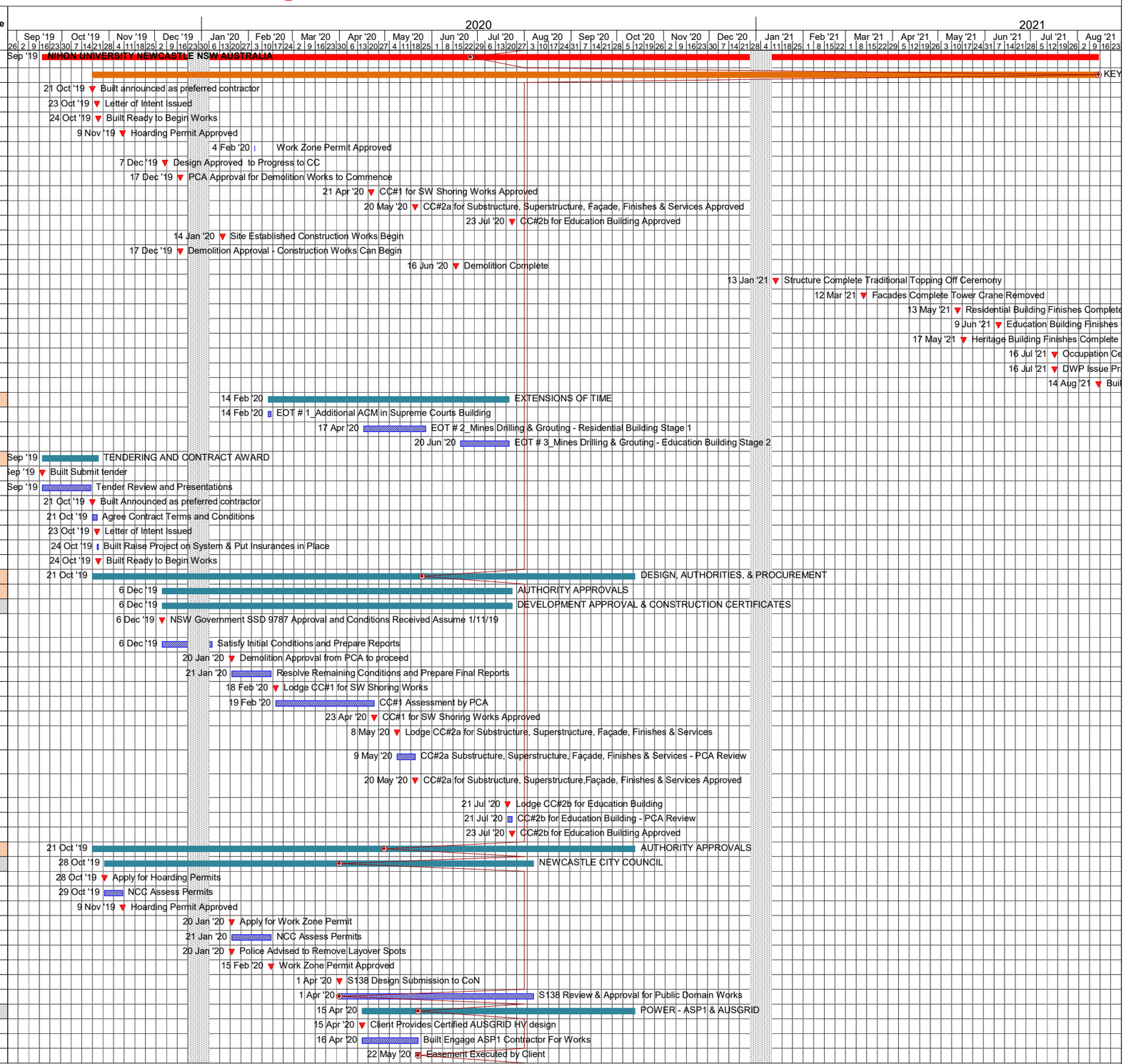
Appendix D – Statused Contract Programme

Prepared By: RMc
Checked:
Revision : Rev 7 Contract

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Contract Programme

Built.

ID	Task Name	Dur	Start	Finish	% Complete
0	**NIHON UNIVERSITY NEWCASTLE NSW AUSTRALIA**	**529 d**	**Wed 18/09/19**	**Sat 14/08/21**	**40%**
1	**KEY PROJECT MILESTONES**	**497 d**	**Mon 21/10/19**	**Sat 14/08/21**	**99%**
2	*Built announced as preferred contractor*	*0 d*	*Mon 21/10/19*	*Mon 21/10/19*	*100%*
3	*Letter of Intent Issued*	*0 d*	*Wed 23/10/19*	*Wed 23/10/19*	*100%*
4	*Built Ready to Begin Works*	*0 d*	*Thu 24/10/19*	*Thu 24/10/19*	*100%*
5	*Hoarding Permit Approved*	*0 d*	*Sat 9/11/19*	*Sat 9/11/19*	*100%*
6	*Work Zone Permit Approved*	*10 d*	*Tue 4/02/20*	*Sat 15/02/20*	*100%*
7	*Design Approved to Progress to CC*	*0 d*	*Sat 7/12/19*	*Sat 7/12/19*	*100%*
8	*PCA Approval for Demolition Works to Commence*	*0 d*	*Tue 17/12/19*	*Tue 17/12/19*	*100%*
9	*CC#1 for SW Shoring Works Approved*	*0 d*	*Tue 21/04/20*	*Tue 21/04/20*	*100%*
10	*CC#2a for Substructure, Superstructure, Façade, Finishes & Services Ap*	*0 d*	*Wed 20/05/20*	*Wed 20/05/20*	*100%*
11	*CC#2b for Education Building Approved*	*0 d*	*Thu 23/07/20*	*Thu 23/07/20*	*100%*
12	*Site Established Construction Works Begin*	*0 d*	*Tue 14/01/20*	*Tue 14/01/20*	*100%*
13	*Demolition Approval - Construction Works Can Begin*	*0 d*	*Tue 17/12/19*	*Tue 17/12/19*	*100%*
14	*Demolition Complete*	*0 d*	*Tue 16/06/20*	*Tue 16/06/20*	*100%*
15	*Structure Complete Traditional Topping Off Ceremony*	*0 d*	*Wed 13/01/21*	*Wed 13/01/21*	*0%*
16	*Facades Complete Tower Crane Removed*	*0 d*	*Fri 12/03/21*	*Fri 12/03/21*	*0%*
17	*Residential Building Finishes Complete*	*0 d*	*Thu 13/05/21*	*Thu 13/05/21*	*0%*
18	*Education Building Finishes Complete*	*0 d*	*Wed 9/06/21*	*Wed 9/06/21*	*0%*
19	*Heritage Building Finishes Complete*	*0 d*	*Mon 17/05/21*	*Mon 17/05/21*	*0%*
20	*Occupation Certificate Issued*	*0 d*	*Fri 16/07/21*	*Fri 16/07/21*	*0%*
21	*DWP Issue Practical Completion*	*0 d*	*Fri 16/07/21*	*Fri 16/07/21*	*0%*
22	*Built Project Complete*	*0 d*	*Sat 14/08/21*	*Sat 14/08/21*	*0%*
23	**EXTENSIONS OF TIME**	**126 d**	**Fri 14/02/20**	**Tue 21/07/20**	**100%**
24	EOT # 1_Additional ACM in Supreme Courts Building	2 d	Fri 14/02/20	Sat 15/02/20	100%
25	EOT # 2_Mines Drilling & Grouting - Residential Building Stage 1	33 d	Fri 17/04/20	Wed 27/05/20	100%
26	EOT # 3_Mines Drilling & Grouting - Education Building Stage 2	27 d	Sat 20/06/20	Tue 21/07/20	100%
27	**TENDERING AND CONTRACT AWARD**	**29 d**	**Wed 18/09/19**	**Thu 24/10/19**	**100%**
28	Built Submit tender	0 d	Wed 18/09/19	Wed 18/09/19	*100%*
29	Tender Review and Presentations	25 d	Wed 18/09/19	Sat 19/10/19	100%
30	Built Announced as preferred contractor	0 d	Mon 21/10/19	Mon 21/10/19	*100%*
31	Agree Contract Terms and Conditions	3 d	Mon 21/10/19	Wed 23/10/19	100%
32	Letter of Intent Issued	0 d	Wed 23/10/19	Wed 23/10/19	*100%*
33	Built Raise Project on System & Put Insurances in Place	1 d	Thu 24/10/19	Thu 24/10/19	100%
34	Built Ready to Begin Works	0 d	Thu 24/10/19	Thu 24/10/19	*100%*
35	**DESIGN, AUTHORITIES, & PROCUREMENT**	**273 d**	**Mon 21/10/19**	**Mon 12/10/20**	**85%**
36	**AUTHORITY APPROVALS**	**171 d**	**Fri 6/12/19**	**Thu 23/07/20**	**100%**
37	**DEVELOPMENT APPROVAL & CONSTRUCTION CERTIF**	**171 d**	**Fri 6/12/19**	**Thu 23/07/20**	**100%**
38	*NSW Government SSD 9787 Approval and Conditions Received Assume 1/11/19*	*0 d*	*Fri 6/12/19*	*Fri 6/12/19*	*100%*
39	Satisfy Initial Conditions and Prepare Reports	14 d	Fri 6/12/19	Tue 7/01/20	100%
40	*Demolition Approval from PCA to proceed*	*0 d*	*Mon 20/01/20*	*Mon 20/01/20*	*100%*
41	Resolve Remaining Conditions and Prepare Final Reports	20 d	Tue 21/01/20	Sat 15/02/20	100%
42	Lodge CC#1 for SW Shoring Works	0 d	Tue 18/02/20	Tue 18/02/20	*100%*
43	CC#1 Assessment by PCA	52 d	Wed 19/02/20	Thu 23/04/20	100%
44	*CC#1 for SW Shoring Works Approved*	*0 d*	*Thu 23/04/20*	*Thu 23/04/20*	*100%*
45	Lodge CC#2a for Substructure, Superstructure, Façade, Finishes & Services	0 d	Fri 8/05/20	Fri 8/05/20	*100%*
46	CC#2a Substructure, Superstructure, Façade, Finishes & Services - PCA Review	10 d	Sat 9/05/20	Wed 20/05/20	100%
47	*CC#2a for Substructure, Superstructure,Façade, Finishes & Services Approved*	*0 d*	*Wed 20/05/20*	*Wed 20/05/20*	*100%*
48	Lodge CC#2b for Education Building	0 d	Tue 21/07/20	Tue 21/07/20	*100%*
49	CC#2b for Education Building - PCA Review	3 d	Tue 21/07/20	Thu 23/07/20	100%
50	*CC#2b for Education Building Approved*	*0 d*	*Thu 23/07/20*	*Thu 23/07/20*	*100%*
51	**AUTHORITY APPROVALS**	**273 d**	**Mon 21/10/19**	**Mon 12/10/20**	**64%**
52	**NEWCASTLE CITY COUNCIL**	**212 d**	**Mon 28/10/19**	**Thu 6/08/20**	**23%**
53	*Apply for Hoarding Permits*	*0 d*	*Mon 28/10/19*	*Mon 28/10/19*	*100%*
54	NCC Assess Permits	10 d	Tue 29/10/19	Sat 9/11/19	100%
55	*Hoarding Permit Approved*	*0 d*	*Sat 9/11/19*	*Sat 9/11/19*	*100%*
56	*Apply for Work Zone Permit*	*0 d*	*Mon 20/01/20*	*Mon 20/01/20*	*100%*
57	NCC Assess Permits	20 d	Tue 21/01/20	Sat 15/02/20	100%
58	Police Advised to Remove Layover Spots	0 d	Mon 20/01/20	Mon 20/01/20	*100%*
59	*Work Zone Permit Approved*	*0 d*	*Sat 15/02/20*	*Sat 15/02/20*	*100%*
60	*S138 Design Submission to CoN*	*0 d*	*Wed 1/04/20*	*Wed 1/04/20*	*100%*
61	S138 Review & Approval for Public Domain Works	100 d	Wed 1/04/20	Thu 6/08/20	0%
62	**POWER - ASP1 & AUSGRID**	**145 d**	**Wed 15/04/20**	**Mon 12/10/20**	**29%**
63	Client Provides Certified AUSGRID HV design	0 d	Wed 15/04/20	Wed 15/04/20	*100%*
64	Built Engage ASP1 Contractor For Works	30 d	Thu 16/04/20	Fri 22/05/20	100%
65	*Easement Executed by Client*	*0 d*	*Fri 22/05/20*	*Fri 22/05/20*	*0%*

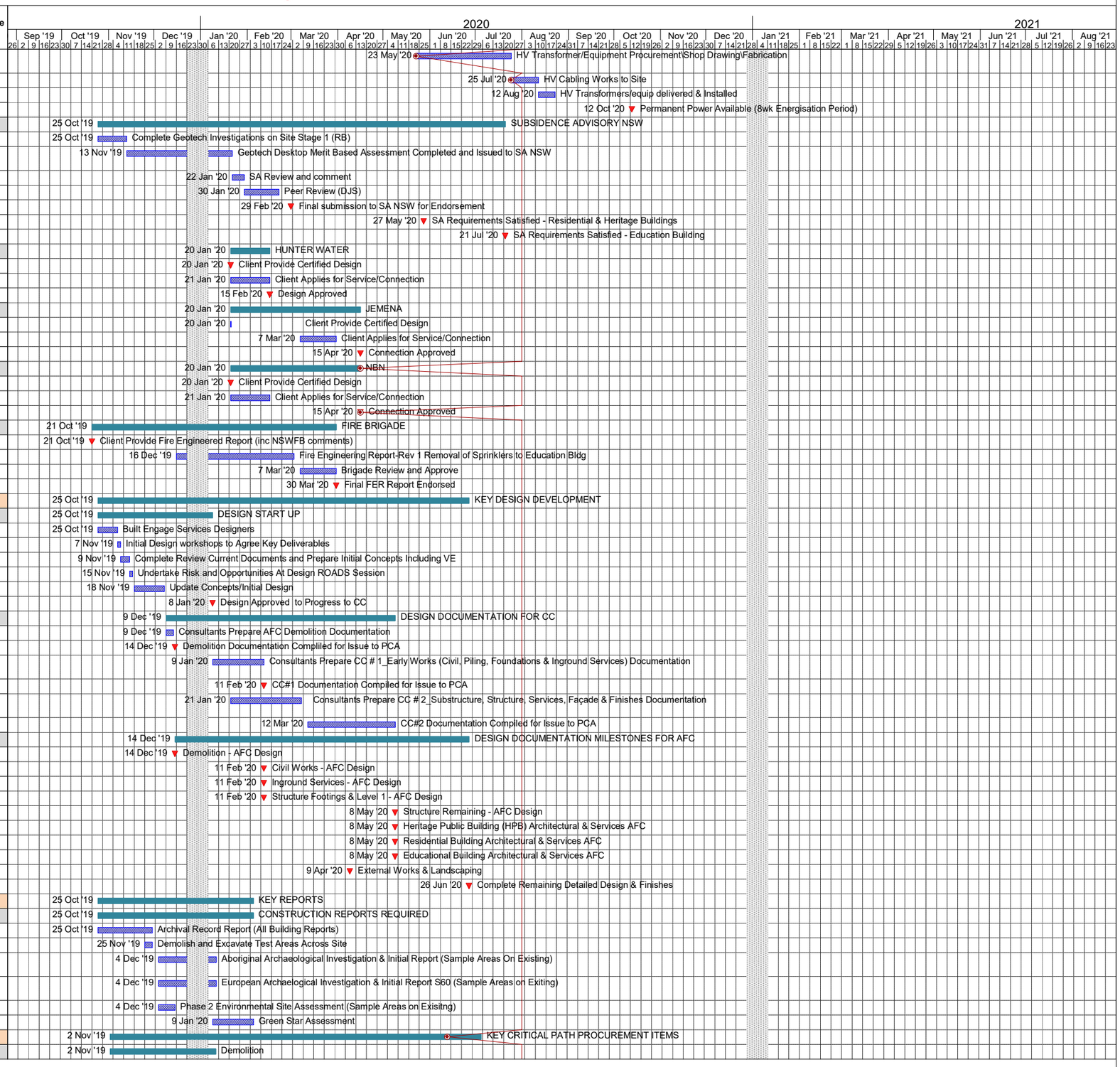


Critical Task — Non-critical — Milestone — Project Summary — Summary

Prepared By: RMc
Checked:
Revision : Rev 7 Contract

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Contract Programme

ID	Task Name	Dur	Start	Finish	% Complete
66	HV Transformer/Equipment Procurement\Shop Drawing\Fabrication	10 wks	Sat 23/05/20	Fri 24/07/20	0%
67	HV Cabling Works to Site	15 d	Sat 25/07/20	Tue 11/08/20	0%
68	HV Transformers/equip delivered & Installed	10 d	Wed 12/08/20	Sat 22/08/20	0%
69	Permanent Power Available (8wk Energisation Period)	0 d	Mon 12/10/20	Mon 12/10/20	*0%*
70	**SUBSIDENCE ADVISORY NSW**	**200 d**	**Fri 25/10/19**	**Tue 21/07/20**	**100%**
71	Complete Geotech Investigations on Site Stage 1 (RB)	15 d	Fri 25/10/19	Tue 12/11/19	100%
72	Geotech Desktop Merit Based Assessment Completed and Issued to SA NSW	43 d	Wed 13/11/19	Tue 21/01/20	100%
73	SA Review and comment	4 d	Wed 22/01/20	Wed 29/01/20	100%
74	Peer Review (DJS)	20 d	Thu 30/01/20	Fri 21/02/20	100%
75	*Final submission to SA NSW for Endorsement*	*0 d*	*Sat 29/02/20*	*Sat 29/02/20*	*100%*
76	*SA Requirements Satisfied - Residential & Heritage Buildings*	*0 d*	*Wed 27/05/20*	*Wed 27/05/20*	*100%*
77	*SA Requirements Satisfied - Education Building*	*0 d*	*Tue 21/07/20*	*Tue 21/07/20*	*100%*
78	**HUNTER WATER**	**20 d**	**Mon 20/01/20**	**Sat 15/02/20**	**100%**
79	Client Provide Certified Design	0 d	Mon 20/01/20	Mon 20/01/20	*100%*
80	Client Applies for Service/Connection	20 d	Tue 21/01/20	Sat 15/02/20	100%
81	*Design Approved*	*0 d*	*Sat 15/02/20*	*Sat 15/02/20*	*100%*
82	**JEMENA**	**67 d**	**Mon 20/01/20**	**Wed 15/04/20**	**100%**
83	Client Provide Certified Design	37 d	Mon 20/01/20	Fri 6/03/20	100%
84	Client Applies for Service/Connection	20 d	Sat 7/03/20	Mon 30/03/20	100%
85	*Connection Approved*	*0 d*	*Wed 15/04/20*	*Wed 15/04/20*	*100%*
86	**NBN**	**67 d**	**Mon 20/01/20**	**Wed 15/04/20**	**99%**
87	Client Provide Certified Design	0 d	Mon 20/01/20	Mon 20/01/20	*100%*
88	Client Applies for Service/Connection	20 d	Tue 21/01/20	Sat 15/02/20	100%
89	*Connection Approved*	*0 d*	*Wed 15/04/20*	*Wed 15/04/20*	*0%*
90	**FIRE BRIGADE**	**118 d**	**Mon 21/10/19**	**Mon 30/03/20**	**100%**
91	Client Provide Fire Engineered Report (inc NSWFB comments)	0 d	Mon 21/10/19	Mon 21/10/19	*100%*
92	Fire Engineering Report-Rev 1 Removal of Sprinklers to Educatio	50 d	Mon 16/12/19	Mon 2/03/20	100%
93	Brigade Review and Approve	20 d	Sat 7/03/20	Mon 30/03/20	100%
94	*Final FER Report Endorsed*	*0 d*	*Mon 30/03/20*	*Mon 30/03/20*	*100%*
95	**KEY DESIGN DEVELOPMENT**	**180 d**	**Fri 25/10/19**	**Fri 26/06/20**	**100%**
96	**DESIGN START UP**	**47 d**	**Fri 25/10/19**	**Wed 8/01/20**	**100%**
97	Built Engage Services Designers	10 d	Fri 25/10/19	Wed 6/11/19	100%
98	Initial Design workshops to Agree Key Deliverables	2 d	Thu 7/11/19	Fri 8/11/19	100%
99	Complete Review Current Documents and Prepare Initial Concep	5 d	Sat 9/11/19	Thu 14/11/19	100%
100	Undertake Risk and Opportunities At Design ROADS Session	2 d	Fri 15/11/19	Sat 16/11/19	100%
101	Update Concepts/Initial Design	15 d	Mon 18/11/19	Sat 7/12/19	100%
102	Design Approved to Progress to CC	0 d	Wed 8/01/20	Wed 8/01/20	*100%*
103	**DESIGN DOCUMENTATION FOR CC**	**108 d**	**Mon 9/12/19**	**Fri 8/05/20**	**100%**
104	Consultants Prepare AFC Demolition Documentation	5 d	Mon 9/12/19	Fri 13/12/19	100%
105	Demolition Documentation Compliled for Issue to PCA	0 d	Sat 14/12/19	Sat 14/12/19	*100%*
106	Consultants Prepare CC # 1_Early Works (Civil, Piling, Foundations & Inground Services) Documentation	26 d	Thu 9/01/20	Tue 11/02/20	100%
107	CC#1 Documentation Compiled for Issue to PCA	0 d	Tue 11/02/20	Tue 11/02/20	*100%*
108	Consultants Prepare CC # 2_Substructure, Structure, Services, Façade & Finishes Documentation	41 d	Tue 21/01/20	Wed 11/03/20	100%
109	CC#2 Documentation Compiled for Issue to PCA	44 d	Thu 12/03/20	Fri 8/05/20	100%
110	**DESIGN DOCUMENTATION MILESTONES FOR AFC**	**140 d**	**Sat 14/12/19**	**Fri 26/06/20**	**100%**
111	Demolition - AFC Design	0 d	Sat 14/12/19	Sat 14/12/19	*100%*
112	Civil Works - AFC Design	0 d	Tue 11/02/20	Tue 11/02/20	*100%*
113	Inground Services - AFC Design	0 d	Tue 11/02/20	Tue 11/02/20	*100%*
114	Structure Footings & Level 1 - AFC Design	0 d	Tue 11/02/20	Tue 11/02/20	*100%*
115	Structure Remaining - AFC Design	0 d	Fri 8/05/20	Fri 8/05/20	*100%*
116	Heritage Public Building (HPB) Architectural & Services AFC	0 d	Fri 8/05/20	Fri 8/05/20	*100%*
117	Residential Building Architectural & Services AFC	0 d	Fri 8/05/20	Fri 8/05/20	*100%*
118	Educational Building Architectural & Services AFC	0 d	Fri 8/05/20	Fri 8/05/20	*100%*
119	External Works & Landscaping	0 d	Thu 9/04/20	Thu 9/04/20	*100%*
120	*Complete Remaining Detailed Design & Finishes*	*0 d*	*Fri 26/06/20*	*Fri 26/06/20*	*100%*
121	**KEY REPORTS**	**67 d**	**Fri 25/10/19**	**Tue 4/02/20**	**100%**
122	**CONSTRUCTION REPORTS REQUIRED**	**67 d**	**Fri 25/10/19**	**Tue 4/02/20**	**100%**
123	Archival Record Report (All Building Reports)	30 d	Fri 25/10/19	Fri 29/11/19	100%
124	Demolish and Excavate Test Areas Across Site	5 d	Mon 25/11/19	Fri 29/11/19	100%
125	Aboriginal Archaeological Investigation & Initial Report (Sample Areas On Existing)	19.5 d	Wed 4/12/19	Sat 11/01/20	100%
126	European Archaelogical Investigation & Initial Report S60 (Sample Areas on Exiting)	19.5 d	Wed 4/12/19	Sat 11/01/20	100%
127	Phase 2 Environmental Site Assessment (Sample Areas on Exisi	10 d	Wed 4/12/19	Sat 14/12/19	100%
128	Green Star Assessment	20 d	Thu 9/01/20	Tue 4/02/20	100%
129	**KEY CRITICAL PATH PROCUREMENT ITEMS**	**180 d**	**Sat 2/11/19**	**Sat 4/07/20**	**95%**
130	**Demolition**	**42 d**	**Sat 2/11/19**	**Fri 10/01/20**	**100%**



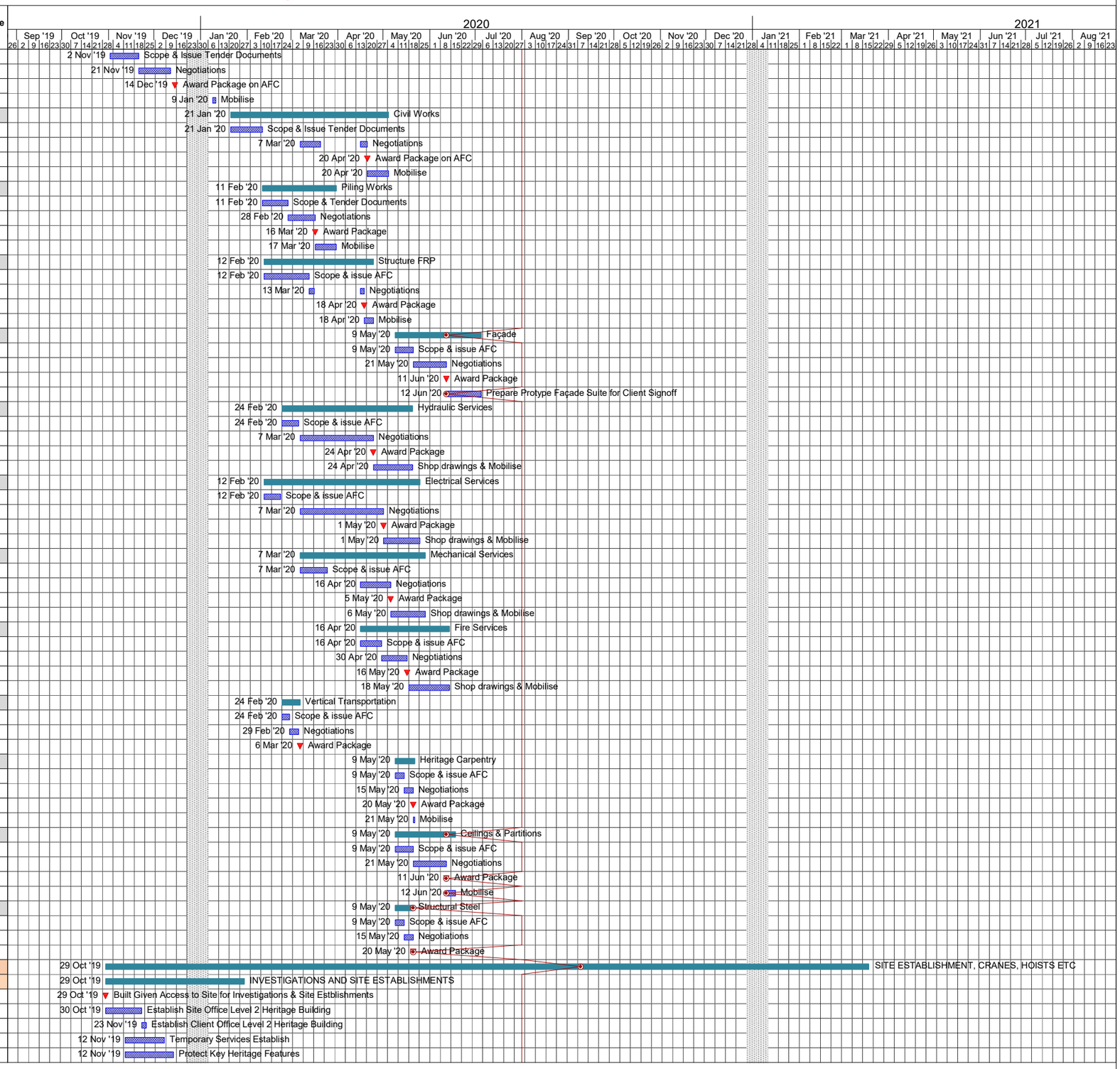
Critical Task | Non-critical | Milestone | Project Summary | Summary

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Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Contract Programme

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ID	Task Name	Dur	Start	Finish	% Complete
131	Scope & Issue Tender Documents	15 d	Sat 2/11/19	Wed 20/11/19	100%
132	Negotiations	15 d	Thu 21/11/19	Wed 11/12/19	100%
133	*Award Package on AFC*	*0 d*	*Sat 14/12/19*	*Sat 14/12/19*	*100%*
134	Mobilise	2 d	Thu 9/01/20	Fri 10/01/20	100%
135	**Civil Works**	**80.75 d**	**Tue 21/01/20**	**Mon 4/05/20**	**100%**
136	Scope & Issue Tender Documents	15 d	Tue 21/01/20	Mon 10/02/20	100%
137	Negotiations	15 d	Sat 7/03/20	Mon 20/04/20	100%
138	*Award Package on AFC*	*0 d*	*Mon 20/04/20*	*Mon 20/04/20*	*100%*
139	Mobilise	10 d	Mon 20/04/20	Mon 4/05/20	100%
140	**Piling Works**	**42 d**	**Tue 11/02/20**	**Mon 30/03/20**	**100%**
141	Scope & Tender Documents	15 d	Tue 11/02/20	Thu 27/02/20	100%
142	Negotiations	15 d	Fri 28/02/20	Mon 16/03/20	100%
143	*Award Package*	*0 d*	*Mon 16/03/20*	*Mon 16/03/20*	*100%*
144	Mobilise	12 d	Tue 17/03/20	Mon 30/03/20	100%
145	**Structure FRP**	**58.5 d**	**Wed 12/02/20**	**Fri 24/04/20**	**100%**
146	Scope & issue AFC	26 d	Wed 12/02/20	Thu 12/03/20	100%
147	Negotiations	5 d	Fri 13/03/20	Sat 18/04/20	100%
148	*Award Package*	*0 d*	*Sat 18/04/20*	*Sat 18/04/20*	*100%*
149	Mobilise	5 d	Sat 18/04/20	Fri 24/04/20	100%
150	**Façade**	**45 d**	**Sat 9/05/20**	**Sat 4/07/20**	**56%**
151	Scope & issue AFC	10 d	Sat 9/05/20	Wed 20/05/20	100%
152	Negotiations	15 d	Thu 21/05/20	Thu 11/06/20	100%
153	*Award Package*	*0 d*	*Thu 11/06/20*	*Thu 11/06/20*	*100%*
154	Prepare Protype Façade Suite for Client Signoff	20 d	Fri 12/06/20	Sat 4/07/20	0%
155	**Hydraulic Services**	**68.5 d**	**Mon 24/02/20**	**Wed 20/05/20**	**100%**
156	Scope & issue AFC	10 d	Mon 24/02/20	Thu 5/03/20	100%
157	Negotiations	37.5 d	Sat 7/03/20	Fri 24/04/20	100%
158	*Award Package*	*0 d*	*Fri 24/04/20*	*Fri 24/04/20*	*100%*
159	Shop drawings & Mobilise	20 d	Fri 24/04/20	Wed 20/05/20	100%
160	**Electrical Services**	**82.25 d**	**Wed 12/02/20**	**Mon 25/05/20**	**100%**
161	Scope & issue AFC	10 d	Wed 12/02/20	Sat 22/02/20	100%
162	Negotiations	41.25 d	Sat 7/03/20	Fri 1/05/20	100%
163	*Award Package*	*0 d*	*Fri 1/05/20*	*Fri 1/05/20*	*100%*
164	Shop drawings & Mobilise	20 d	Fri 1/05/20	Mon 25/05/20	100%
165	**Mechanical Services**	**65 d**	**Sat 7/03/20**	**Thu 28/05/20**	**100%**
166	Scope & issue AFC	15 d	Sat 7/03/20	Tue 24/03/20	100%
167	Negotiations	15 d	Thu 16/04/20	Tue 5/05/20	100%
168	*Award Package*	*0 d*	*Tue 5/05/20*	*Tue 5/05/20*	*100%*
169	Shop drawings & Mobilise	20 d	Wed 6/05/20	Thu 28/05/20	100%
170	**Fire Services**	**45 d**	**Thu 16/04/20**	**Sat 13/06/20**	**100%**
171	Scope & issue AFC	10 d	Thu 16/04/20	Wed 29/04/20	100%
172	Negotiations	15 d	Thu 30/04/20	Sat 16/05/20	100%
173	*Award Package*	*0 d*	*Sat 16/05/20*	*Sat 16/05/20*	*100%*
174	Shop drawings & Mobilise	20 d	Mon 18/05/20	Sat 13/06/20	100%
175	**Vertical Transportation**	**11 d**	**Mon 24/02/20**	**Fri 6/03/20**	**100%**
176	Scope & issue AFC	5 d	Mon 24/02/20	Fri 28/02/20	100%
177	Negotiations	5 d	Sat 29/02/20	Thu 5/03/20	100%
178	*Award Package*	*0 d*	*Fri 6/03/20*	*Fri 6/03/20*	*100%*
179	**Heritage Carpentry**	**11 d**	**Sat 9/05/20**	**Thu 21/05/20**	**100%**
180	Scope & issue AFC	5 d	Sat 9/05/20	Thu 14/05/20	100%
181	Negotiations	5 d	Fri 15/05/20	Wed 20/05/20	100%
182	*Award Package*	*0 d*	*Wed 20/05/20*	*Wed 20/05/20*	*100%*
183	Mobilise	1 d	Thu 21/05/20	Thu 21/05/20	100%
184	**Ceilings & Partitions**	**30 d**	**Sat 9/05/20**	**Wed 17/06/20**	**83%**
185	Scope & issue AFC	10 d	Sat 9/05/20	Wed 20/05/20	100%
186	Negotiations	15 d	Thu 21/05/20	Thu 11/06/20	100%
187	*Award Package*	*0 d*	*Thu 11/06/20*	*Thu 11/06/20*	*0%*
188	Mobilise	5 d	Fri 12/06/20	Wed 17/06/20	0%
189	**Structural Steel**	**10 d**	**Sat 9/05/20**	**Wed 20/05/20**	**99%**
190	Scope & issue AFC	5 d	Sat 9/05/20	Thu 14/05/20	100%
191	Negotiations	5 d	Fri 15/05/20	Wed 20/05/20	100%
192	*Award Package*	*0 d*	*Wed 20/05/20*	*Wed 20/05/20*	*0%*
193	**SITE ESTABLISHMENT, CRANES, HOISTS ETC**	**378 d**	**Tue 29/10/19**	**Thu 18/03/21**	**61%**
194	**INVESTIGATIONS AND SITE ESTABLISHMENTS**	**58 d**	**Tue 29/10/19**	**Wed 29/01/20**	**100%**
195	*Built Given Access to Site for Investigations & Site Estblishments*	*0 d*	*Tue 29/10/19*	*Tue 29/10/19*	*100%*
196	Establish Site Office Level 2 Heritage Building	20 d	Wed 30/10/19	Fri 22/11/19	100%
197	Establish Client Office Level 2 Heritage Building	2 d	Sat 23/11/19	Mon 25/11/19	100%
198	Temporary Services Establish	20 d	Tue 12/11/19	Sat 7/12/19	100%
199	Protect Key Heritage Features	25 d	Tue 12/11/19	Fri 13/12/19	100%



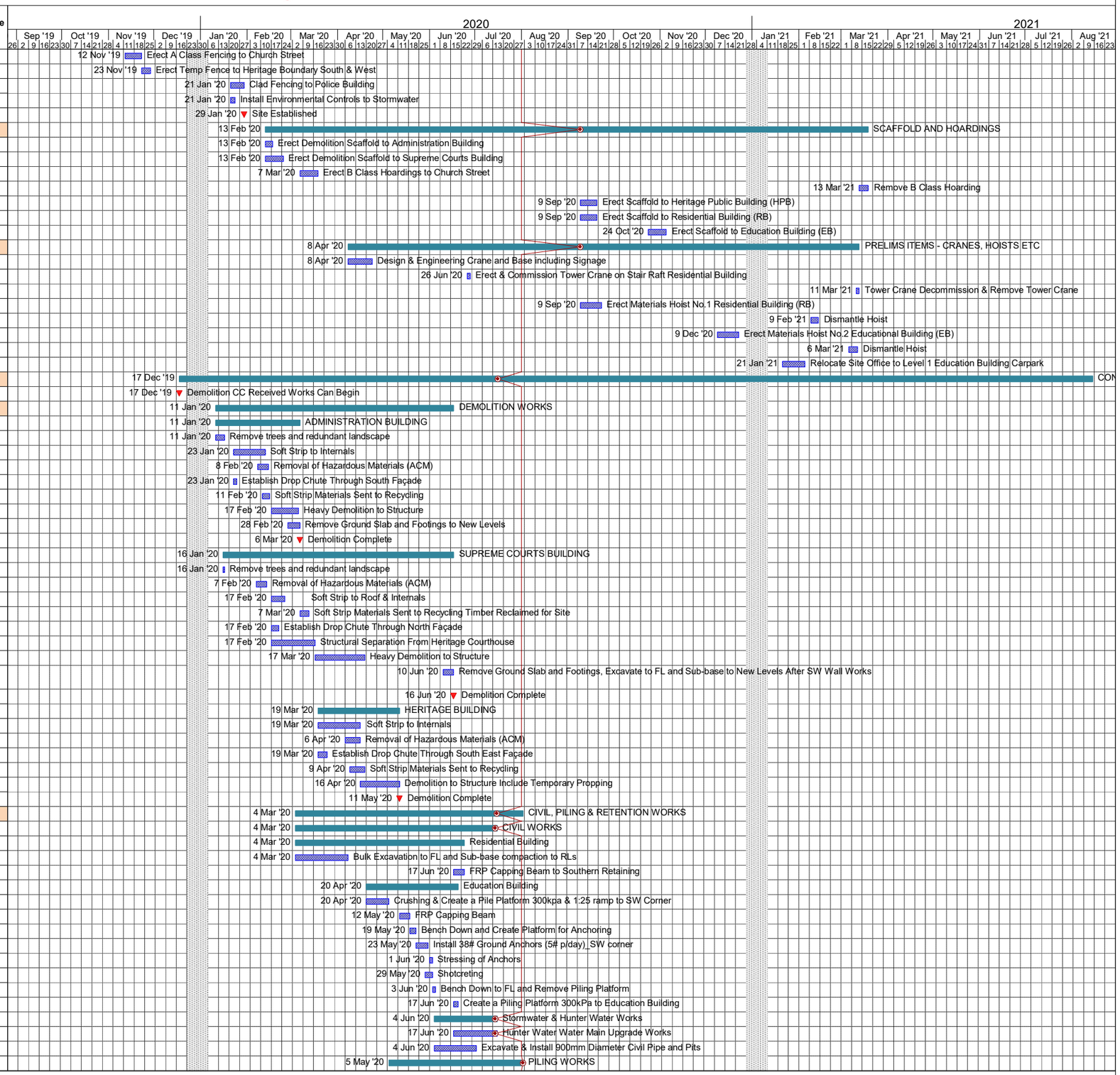
Critical Task | Non-critical | Milestone | Project Summary | Summary

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Built NIHON UNIVERSITY
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ID	Task Name	Dur	Start	Finish	% Complete
200	Erect A Class Fencing to Church Street	10 d	Tue 12/11/19	Fri 22/11/19	100%
201	Erect Temp Fence to Heritage Boundary South & West	5 d	Sat 23/11/19	Thu 28/11/19	100%
202	Clad Fencing to Police Building	5 d	Tue 21/01/20	Wed 29/01/20	100%
203	Install Environmental Controls to Stormwater	3 d	Tue 21/01/20	Thu 23/01/20	100%
204	Site Established	0 d	Wed 29/01/20	Wed 29/01/20	*100%*
205	**SCAFFOLD AND HOARDINGS**	**308 d**	**Thu 13/02/20**	**Thu 18/03/21**	**41%**
206	Erect Demolition Scaffold to Administration Building	4 d	Thu 13/02/20	Mon 17/02/20	100%
207	Erect Demolition Scaffold to Supreme Courts Building	10 d	Thu 13/02/20	Mon 24/02/20	100%
208	Erect B Class Hoardings to Church Street	10 d	Sat 7/03/20	Wed 18/03/20	100%
209	Remove B Class Hoarding	5 d	Sat 13/03/21	Thu 18/03/21	0%
210	Erect Scaffold to Heritage Public Building (HPB)	10 d	Wed 9/09/20	Sat 19/09/20	0%
211	Erect Scaffold to Residential Building (RB)	10 d	Wed 9/09/20	Sat 19/09/20	0%
212	Erect Scaffold to Education Building (EB)	10 d	Sat 24/10/20	Wed 4/11/20	0%
213	**PRELIMS ITEMS - CRANES, HOISTS ETC**	**256 d**	**Wed 8/04/20**	**Fri 12/03/21**	**21%**
214	Design & Engineering Crane and Base including Signage	10 d	Wed 8/04/20	Thu 23/04/20	100%
215	Erect & Commission Tower Crane on Stair Raft Residential Building	2 d	Fri 26/06/20	Sat 27/06/20	100%
216	Tower Crane Decommission & Remove Tower Crane	2 d	Thu 11/03/21	Fri 12/03/21	0%
217	Erect Materials Hoist No.1 Residential Building (RB)	12 d	Wed 9/09/20	Tue 22/09/20	0%
218	Dismantle Hoist	5 d	Tue 9/02/21	Sat 13/02/21	0%
219	Erect Materials Hoist No.2 Educational Building (EB)	12 d	Wed 9/12/20	Tue 22/12/20	0%
220	Dismantle Hoist	5 d	Sat 6/03/21	Thu 11/03/21	0%
221	Relocate Site Office to Level 1 Education Building Carpark	10 d	Thu 21/01/21	Thu 4/02/21	0%
222	**CONSTRUCTION WORKS**	**458 d**	**Tue 17/12/19**	**Sat 14/08/21**	**16%**
223	Demolition CC Received Works Can Begin	0 d	Tue 17/12/19	Tue 17/12/19	*100%*
224	**DEMOLITION WORKS**	**122 d**	**Sat 11/01/20**	**Tue 16/06/20**	**100%**
225	**ADMINISTRATION BUILDING**	**45 d**	**Sat 11/01/20**	**Fri 6/03/20**	**100%**
226	Remove trees and redundant landscape	5 d	Sat 11/01/20	Thu 16/01/20	100%
227	Soft Strip to Internals	15 d	Thu 23/01/20	Wed 12/02/20	100%
228	Removal of Hazardous Materials (ACM)	6 d	Sat 8/02/20	Fri 14/02/20	100%
229	Establish Drop Chute Through South Façade	2 d	Thu 23/01/20	Fri 24/01/20	100%
230	Soft Strip Materials Sent to Recycling	5 d	Tue 11/02/20	Sat 15/02/20	100%
231	Heavy Demolition to Structure	16 d	Mon 17/02/20	Thu 5/03/20	100%
232	Remove Ground Slab and Footings to New Levels	7 d	Fri 28/02/20	Fri 6/03/20	100%
233	*Demolition Complete*	*0 d*	*Fri 6/03/20*	*Fri 6/03/20*	*100%*
234	**SUPREME COURTS BUILDING**	**118 d**	**Thu 16/01/20**	**Tue 16/06/20**	**100%**
235	Remove trees and redundant landscape	1 d	Thu 16/01/20	Thu 16/01/20	100%
236	Removal of Hazardous Materials (ACM)	6 d	Fri 7/02/20	Thu 13/02/20	100%
237	Soft Strip to Roof & Internals	20 d	Mon 17/02/20	Tue 10/03/20	100%
238	Soft Strip Materials Sent to Recycling Timber Reclaimed for Site	5 d	Sat 7/03/20	Thu 12/03/20	100%
239	Establish Drop Chute Through North Façade	5 d	Mon 17/02/20	Fri 21/02/20	100%
240	Structural Separation From Heritage Courthouse	25 d	Mon 17/02/20	Mon 16/03/20	100%
241	Heavy Demolition to Structure	25 d	Tue 17/03/20	Sat 18/04/20	100%
242	Remove Ground Slab and Footings, Excavate to FL and Sub-base to New Levels After SW Wall Works	6 d	Wed 10/06/20	Tue 16/06/20	100%
243	*Demolition Complete*	*0 d*	*Tue 16/06/20*	*Tue 16/06/20*	*100%*
244	**HERITAGE BUILDING**	**40 d**	**Thu 19/03/20**	**Mon 11/05/20**	**100%**
245	Soft Strip to Internals	21 d	Thu 19/03/20	Thu 16/04/20	100%
246	Removal of Hazardous Materials (ACM)	5 d	Mon 6/04/20	Wed 15/04/20	100%
247	Establish Drop Chute Through South East Façade	5 d	Thu 19/03/20	Tue 24/03/20	100%
248	Soft Strip Materials Sent to Recycling	5 d	Thu 9/04/20	Sat 18/04/20	100%
249	Demolition to Structure Include Temporary Propping	20 d	Thu 16/04/20	Mon 11/05/20	100%
250	*Demolition Complete*	*0 d*	*Mon 11/05/20*	*Mon 11/05/20*	*100%*
251	**CIVIL, PILING & RETENTION WORKS**	**120 d**	**Wed 4/03/20**	**Sat 1/08/20**	**93%**
252	**CIVIL WORKS**	**105 d**	**Wed 4/03/20**	**Wed 15/07/20**	**99%**
253	**Residential Building**	**86 d**	**Wed 4/03/20**	**Tue 23/06/20**	**100%**
254	Bulk Excavation to FL and Sub-base compaction to RLs	30 d	Wed 4/03/20	Tue 7/04/20	100%
255	FRP Capping Beam to Southern Retaining	6 d	Wed 17/06/20	Tue 23/06/20	100%
256	**Education Building**	**47 d**	**Mon 20/04/20**	**Fri 19/06/20**	**100%**
257	Crushing & Create a Pile Platform 300kpa & 1:25 ramp to SW	11 d	Mon 20/04/20	Mon 4/05/20	100%
258	FRP Capping Beam	6 d	Tue 12/05/20	Mon 18/05/20	100%
259	Bench Down and Create Platform for Anchoring	4 d	Tue 19/05/20	Fri 22/05/20	100%
260	Install 38# Ground Anchors (5# p/day)_SW corner	7 d	Sat 23/05/20	Sat 30/05/20	100%
261	Stressing of Anchors	2 d	Mon 1/06/20	Tue 2/06/20	100%
262	Shotcreting	4 d	Fri 29/05/20	Tue 2/06/20	100%
263	Bench Down to FL and Remove Piling Platform	2 d	Wed 3/06/20	Thu 4/06/20	100%
264	Create a Piling Platform 300kPa to Education Building	3 d	Wed 17/06/20	Fri 19/06/20	100%
265	**Stormwater & Hunter Water Works**	**32 d**	**Thu 4/06/20**	**Wed 15/07/20**	**97%**
266	Hunter Water Water Main Upgrade Works	25 d	Wed 17/06/20	Wed 15/07/20	95%
267	Excavate & Install 900mm Diameter Civil Pipe and Pits	20 d	Thu 4/06/20	Wed 1/07/20	100%
268	**PILING WORKS**	**73 d**	**Tue 5/05/20**	**Sat 1/08/20**	**100%**

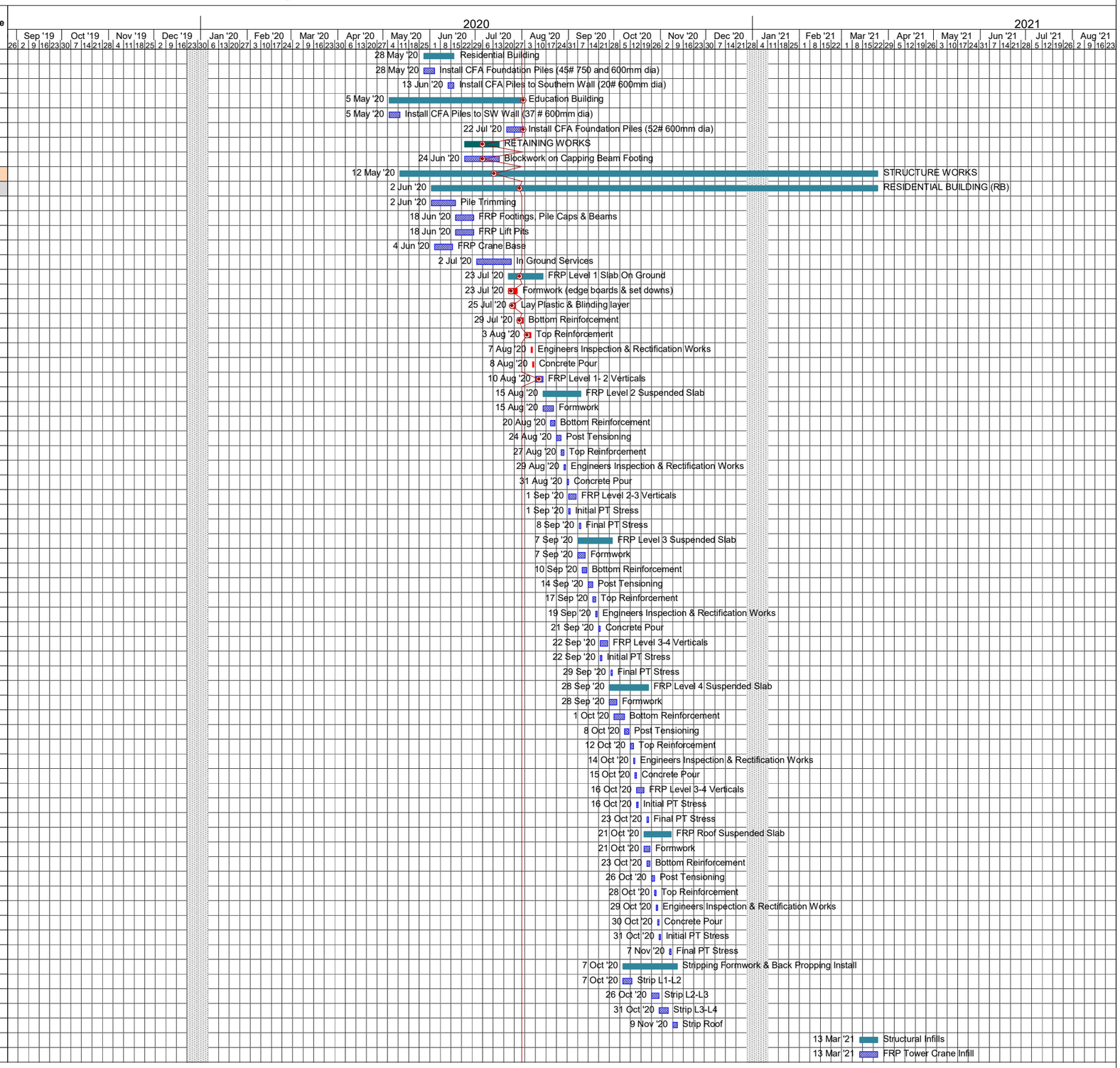


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ID	Task Name	Dur	Start	Finish	% Complete
269	**Residential Building**	**13 d**	**Thu 28/05/20**	**Tue 16/06/20**	**100%**
270	Install CFA Foundation Piles (45# 750 and 600mm dia)	6 d	Thu 28/05/20	Wed 3/06/20	100%
271	Install CFA Piles to Southern Wall (20# 600mm dia)	3 d	Sat 13/06/20	Tue 16/06/20	100%
272	**Education Building**	**73 d**	**Tue 5/05/20**	**Sat 1/08/20**	**100%**
273	Install CFA Piles to SW Wall (37 # 600mm dia)	6 d	Tue 5/05/20	Mon 11/05/20	100%
274	Install CFA Foundation Piles (52# 600mm dia)	10 d	Wed 22/07/20	Sat 1/08/20	100%
275	**RETAINING WORKS**	**20 d**	**Wed 24/06/20**	**Thu 16/07/20**	**50%**
276	Blockwork on Capping Beam Footing	20 d	Wed 24/06/20	Thu 16/07/20	50%
277	**STRUCTURE WORKS**	**243 d**	**Tue 12/05/20**	**Wed 24/03/21**	**23%**
278	**RESIDENTIAL BUILDING (RB)**	**225 d**	**Tue 2/06/20**	**Wed 24/03/21**	**35%**
279	Pile Trimming	10 d	Tue 2/06/20	Wed 17/06/20	100%
280	FRP Footings, Pile Caps & Beams	10 d	Thu 18/06/20	Mon 29/06/20	100%
281	FRP Lift Pits	10 d	Thu 18/06/20	Mon 29/06/20	100%
282	FRP Crane Base	6 d	Thu 4/06/20	Mon 15/06/20	100%
283	In Ground Services	20 d	Thu 2/07/20	Fri 24/07/20	100%
284	**FRP Level 1 Slab On Ground**	**20 d**	**Thu 23/07/20**	**Fri 14/08/20**	**39%**
285	Formwork (edge boards & set downs)	5 d	Thu 23/07/20	Tue 28/07/20	40%
286	Lay Plastic & Blinding layer	2 d	Sat 25/07/20	Mon 27/07/20	40%
287	Bottom Reinforcement	4 d	Wed 29/07/20	Sat 1/08/20	40%
288	Top Reinforcement	4 d	Mon 3/08/20	Thu 6/08/20	40%
289	Engineers Inspection & Rectification Works	1 d	Fri 7/08/20	Fri 7/08/20	0%
290	Concrete Pour	1 d	Sat 8/08/20	Sat 8/08/20	0%
291	FRP Level 1- 2 Verticals	5 d	Mon 10/08/20	Fri 14/08/20	50%
292	**FRP Level 2 Suspended Slab**	**21 d**	**Sat 15/08/20**	**Tue 8/09/20**	**0%**
293	Formwork	6 d	Sat 15/08/20	Fri 21/08/20	0%
294	Bottom Reinforcement	3 d	Thu 20/08/20	Sat 22/08/20	0%
295	Post Tensioning	3 d	Mon 24/08/20	Wed 26/08/20	0%
296	Top Reinforcement	2 d	Thu 27/08/20	Fri 28/08/20	0%
297	Engineers Inspection & Rectification Works	1 d	Sat 29/08/20	Sat 29/08/20	0%
298	Concrete Pour	1 d	Mon 31/08/20	Mon 31/08/20	0%
299	FRP Level 2-3 Verticals	5 d	Tue 1/09/20	Sat 5/09/20	0%
300	Initial PT Stress	1 d	Tue 1/09/20	Tue 1/09/20	0%
301	Final PT Stress	1 d	Tue 8/09/20	Tue 8/09/20	0%
302	**FRP Level 3 Suspended Slab**	**20 d**	**Mon 7/09/20**	**Tue 29/09/20**	**0%**
303	Formwork	5 d	Mon 7/09/20	Fri 11/09/20	0%
304	Bottom Reinforcement	3 d	Thu 10/09/20	Sat 12/09/20	0%
305	Post Tensioning	3 d	Mon 14/09/20	Wed 16/09/20	0%
306	Top Reinforcement	2 d	Thu 17/09/20	Fri 18/09/20	0%
307	Engineers Inspection & Rectification Works	1 d	Sat 19/09/20	Sat 19/09/20	0%
308	Concrete Pour	1 d	Mon 21/09/20	Mon 21/09/20	0%
309	FRP Level 3-4 Verticals	5 d	Tue 22/09/20	Sat 26/09/20	0%
310	Initial PT Stress	1 d	Tue 22/09/20	Tue 22/09/20	0%
311	Final PT Stress	1 d	Tue 29/09/20	Tue 29/09/20	0%
312	**FRP Level 4 Suspended Slab**	**20 d**	**Mon 28/09/20**	**Fri 23/10/20**	**0%**
313	Formwork	5 d	Mon 28/09/20	Fri 2/10/20	0%
314	Bottom Reinforcement	3 d	Thu 1/10/20	Wed 7/10/20	0%
315	Post Tensioning	3 d	Thu 8/10/20	Sat 10/10/20	0%
316	Top Reinforcement	2 d	Mon 12/10/20	Tue 13/10/20	0%
317	Engineers Inspection & Rectification Works	1 d	Wed 14/10/20	Wed 14/10/20	0%
318	Concrete Pour	1 d	Thu 15/10/20	Thu 15/10/20	0%
319	FRP Level 3-4 Verticals	4 d	Fri 16/10/20	Tue 20/10/20	0%
320	Initial PT Stress	1 d	Fri 16/10/20	Fri 16/10/20	0%
321	Final PT Stress	1 d	Fri 23/10/20	Fri 23/10/20	0%
322	**FRP Roof Suspended Slab**	**16 d**	**Wed 21/10/20**	**Sat 7/11/20**	**0%**
323	Formwork	4 d	Wed 21/10/20	Sat 24/10/20	0%
324	Bottom Reinforcement	2 d	Fri 23/10/20	Sat 24/10/20	0%
325	Post Tensioning	2 d	Mon 26/10/20	Tue 27/10/20	0%
326	Top Reinforcement	1 d	Wed 28/10/20	Wed 28/10/20	0%
327	Engineers Inspection & Rectification Works	1 d	Thu 29/10/20	Thu 29/10/20	0%
328	Concrete Pour	1 d	Fri 30/10/20	Fri 30/10/20	0%
329	Initial PT Stress	1 d	Sat 31/10/20	Sat 31/10/20	0%
330	Final PT Stress	1 d	Sat 7/11/20	Sat 7/11/20	0%
331	**Stripping Formwork & Back Propping Install**	**31 d**	**Wed 7/10/20**	**Wed 11/11/20**	**0%**
332	Strip L1-L2	5 d	Wed 7/10/20	Mon 12/10/20	0%
333	Strip L2-L3	5 d	Mon 26/10/20	Fri 30/10/20	0%
334	Strip L3-L4	5 d	Sat 31/10/20	Thu 5/11/20	0%
335	Strip Roof	3 d	Mon 9/11/20	Wed 11/11/20	0%
336	**Structural Infills**	**10 d**	**Sat 13/03/21**	**Wed 24/03/21**	**0%**
337	FRP Tower Crane Infill	10 d	Sat 13/03/21	Wed 24/03/21	0%

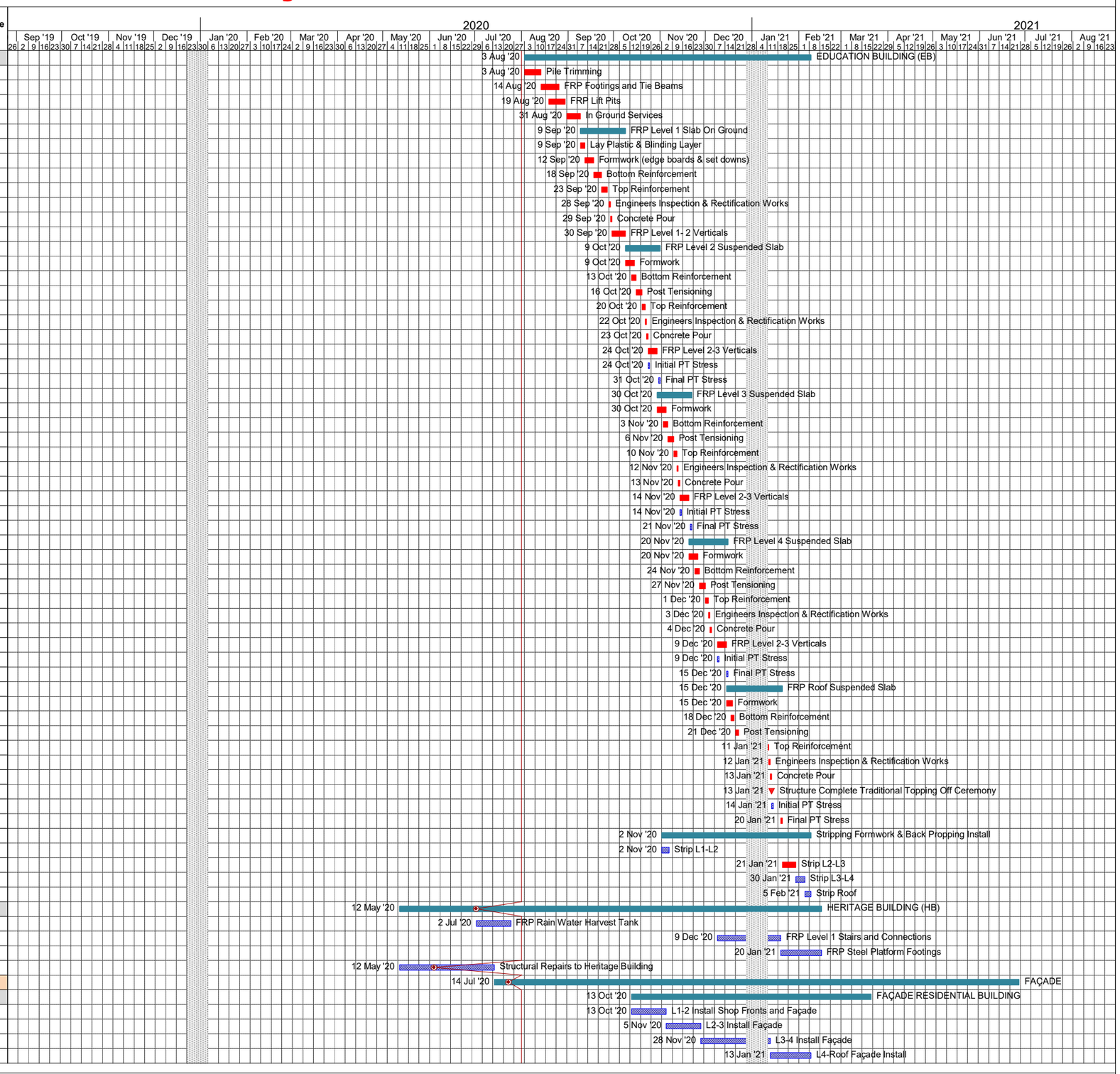


Critical Task | Non-critical | Milestone | Project Summary | Summary

Prepared By: RMc
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Built NIHON UNIVERSITY
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ID	Task Name	Dur	Start	Finish	% Complete
338	**EDUCATION BUILDING (EB)**	**138 d**	**Mon 3/08/20**	**Mon 8/02/21**	**0%**
339	Pile Trimming	10 d	Mon 3/08/20	Thu 13/08/20	0%
340	FRP Footings and Tie Beams	10 d	Fri 14/08/20	Tue 25/08/20	0%
341	FRP Lift Pits	10 d	Wed 19/08/20	Sat 29/08/20	0%
342	In Ground Services	8 d	Mon 31/08/20	Tue 8/09/20	0%
343	**FRP Level 1 Slab On Ground**	**23 d**	**Wed 9/09/20**	**Thu 8/10/20**	**0%**
344	Lay Plastic & Blinding Layer	3 d	Wed 9/09/20	Fri 11/09/20	0%
345	Formwork (edge boards & set downs)	5 d	Sat 12/09/20	Thu 17/09/20	0%
346	Bottom Reinforcement	4 d	Fri 18/09/20	Tue 22/09/20	0%
347	Top Reinforcement	4 d	Wed 23/09/20	Sat 26/09/20	0%
348	Engineers Inspection & Rectification Works	1 d	Mon 28/09/20	Mon 28/09/20	0%
349	Concrete Pour	1 d	Tue 29/09/20	Tue 29/09/20	0%
350	FRP Level 1- 2 Verticals	5 d	Wed 30/09/20	Thu 8/10/20	0%
351	**FRP Level 2 Suspended Slab**	**20 d**	**Fri 9/10/20**	**Sat 31/10/20**	**0%**
352	Formwork	5 d	Fri 9/10/20	Wed 14/10/20	0%
353	Bottom Reinforcement	3 d	Tue 13/10/20	Thu 15/10/20	0%
354	Post Tensioning	3 d	Fri 16/10/20	Mon 19/10/20	0%
355	Top Reinforcement	2 d	Tue 20/10/20	Wed 21/10/20	0%
356	Engineers Inspection & Rectification Works	1 d	Thu 22/10/20	Thu 22/10/20	0%
357	Concrete Pour	1 d	Fri 23/10/20	Fri 23/10/20	0%
358	FRP Level 2-3 Verticals	5 d	Sat 24/10/20	Thu 29/10/20	0%
359	Initial PT Stress	1 d	Sat 24/10/20	Sat 24/10/20	0%
360	Final PT Stress	1 d	Sat 31/10/20	Sat 31/10/20	0%
361	**FRP Level 3 Suspended Slab**	**20 d**	**Fri 30/10/20**	**Sat 21/11/20**	**0%**
362	Formwork	5 d	Fri 30/10/20	Wed 4/11/20	0%
363	Bottom Reinforcement	3 d	Tue 3/11/20	Thu 5/11/20	0%
364	Post Tensioning	3 d	Fri 6/11/20	Mon 9/11/20	0%
365	Top Reinforcement	2 d	Tue 10/11/20	Wed 11/11/20	0%
366	Engineers Inspection & Rectification Works	1 d	Thu 12/11/20	Thu 12/11/20	0%
367	Concrete Pour	1 d	Fri 13/11/20	Fri 13/11/20	0%
368	FRP Level 2-3 Verticals	5 d	Sat 14/11/20	Thu 19/11/20	0%
369	Initial PT Stress	1 d	Sat 14/11/20	Sat 14/11/20	0%
370	Final PT Stress	1 d	Sat 21/11/20	Sat 21/11/20	0%
371	**FRP Level 4 Suspended Slab**	**19 d**	**Fri 20/11/20**	**Tue 15/12/20**	**0%**
372	Formwork	5 d	Fri 20/11/20	Wed 25/11/20	0%
373	Bottom Reinforcement	3 d	Tue 24/11/20	Thu 26/11/20	0%
374	Post Tensioning	3 d	Fri 27/11/20	Mon 30/11/20	0%
375	Top Reinforcement	2 d	Tue 1/12/20	Wed 2/12/20	0%
376	Engineers Inspection & Rectification Works	1 d	Thu 3/12/20	Thu 3/12/20	0%
377	Concrete Pour	1 d	Fri 4/12/20	Fri 4/12/20	0%
378	FRP Level 2-3 Verticals	5 d	Wed 9/12/20	Mon 14/12/20	0%
379	Initial PT Stress	1 d	Wed 9/12/20	Wed 9/12/20	0%
380	Final PT Stress	1 d	Tue 15/12/20	Tue 15/12/20	0%
381	**FRP Roof Suspended Slab**	**16 d**	**Tue 15/12/20**	**Wed 20/01/21**	**0%**
382	Formwork	4 d	Tue 15/12/20	Fri 18/12/20	0%
383	Bottom Reinforcement	2 d	Fri 18/12/20	Sat 19/12/20	0%
384	Post Tensioning	2 d	Mon 21/12/20	Tue 22/12/20	0%
385	Top Reinforcement	1 d	Mon 11/01/21	Mon 11/01/21	0%
386	Engineers Inspection & Rectification Works	1 d	Tue 12/01/21	Tue 12/01/21	0%
387	Concrete Pour	1 d	Wed 13/01/21	Wed 13/01/21	0%
388	*Structure Complete Traditional Topping Off Ceremony*	*0 d*	*Wed 13/01/21*	*Wed 13/01/21*	*0%*
389	Initial PT Stress	1 d	Thu 14/01/21	Thu 14/01/21	0%
390	Final PT Stress	1 d	Wed 20/01/21	Wed 20/01/21	0%
391	**Stripping Formwork & Back Propping Install**	**63 d**	**Mon 2/11/20**	**Mon 8/02/21**	**0%**
392	Strip L1-L2	5 d	Mon 2/11/20	Fri 6/11/20	0%
393	Strip L2-L3	5 d	Thu 21/01/21	Fri 29/01/21	0%
394	Strip L3-L4	5 d	Sat 30/01/21	Thu 4/02/21	0%
395	Strip Roof	3 d	Fri 5/02/21	Mon 8/02/21	0%
396	**HERITAGE BUILDING (HB)**	**211 d**	**Tue 12/05/20**	**Mon 15/02/21**	**36%**
397	FRP Rain Water Harvest Tank	20 d	Thu 2/07/20	Fri 24/07/20	100%
398	FRP Level 1 Stairs and Connections	20 d	Wed 9/12/20	Tue 19/01/21	0%
399	FRP Steel Platform Footings	20 d	Wed 20/01/21	Mon 15/02/21	0%
400	Structural Repairs to Heritage Building	50 d	Tue 12/05/20	Mon 13/07/20	40%
401	**FAÇADE**	**264 d**	**Tue 14/07/20**	**Sat 26/06/21**	**1%**
402	**FAÇADE RESIDENTIAL BUILDING**	**115 d**	**Tue 13/10/20**	**Sat 20/03/21**	**0%**
403	L1-2 Install Shop Fronts and Façade	20 d	Tue 13/10/20	Wed 4/11/20	0%
404	L2-3 Install Façade	20 d	Thu 5/11/20	Fri 27/11/20	0%
405	L3-4 Install Façade	20 d	Sat 28/11/20	Tue 12/01/21	0%
406	L4-Roof Façade Install	20 d	Wed 13/01/21	Mon 8/02/21	0%



Critical Task | Non-critical | Milestone | Project Summary | Summary

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Contract Programme

Built.

ID	Task Name	Dur	Start	Finish	% Complete
407	Paint External All Levels	20 d	Tue 9/02/21	Wed 3/03/21	0%
408	Aluminium Louvres, Fins and Assoc. Attachments Install	15 d	Thu 4/03/21	Sat 20/03/21	0%
409	Void Curtain Wall Steelwork Install	10 d	Thu 12/11/20	Mon 23/11/20	0%
410	Void Curtain Wall Glazing Install	10 d	Tue 24/11/20	Fri 4/12/20	0%
411	**FAÇADE EDUCATIONAL BUILDING**	**115 d**	**Sat 7/11/20**	**Tue 20/04/21**	**0%**
412	L1-2 Install Shop Fronts and Façade	20 d	Sat 7/11/20	Mon 30/11/20	0%
413	L2-3 Install Façade	20 d	Tue 1/12/20	Thu 14/01/21	0%
414	L3-4 Install Façade	20 d	Fri 15/01/21	Wed 10/02/21	0%
415	L4-Roof Façade Install	20 d	Thu 11/02/21	Fri 5/03/21	0%
416	Paint External All Levels	20 d	Sat 6/03/21	Mon 29/03/21	0%
417	Aluminium Louvres, Fins and Assoc. Attachments Install	15 d	Tue 30/03/21	Tue 20/04/21	0%
418	Void Curtain Wall Steelwork Install	10 d	Tue 9/02/21	Fri 19/02/21	0%
419	Void Curtain Wall Glazing Install	10 d	Sat 20/02/21	Wed 3/03/21	0%
420	**FAÇADE HERITAGE / PUBLIC BUILDING**	**80 d**	**Mon 21/09/20**	**Sat 16/01/21**	**0%**
421	Paint and Repairs Northern Face	20 d	Mon 21/09/20	Fri 16/10/20	0%
422	Paint and Repairs Eastern Face	20 d	Sat 17/10/20	Mon 9/11/20	0%
423	Paint and Repairs Western Face	20 d	Tue 10/11/20	Wed 2/12/20	0%
424	Paint and Repairs Southern Face	20 d	Thu 3/12/20	Sat 16/01/21	0%
425	**CONNECTION CANOPIES**	**264 d**	**Tue 14/07/20**	**Sat 26/06/21**	**2%**
426	Install Heritage - Residential Building Connection Canopy	20 d	Sat 28/11/20	Tue 12/01/21	0%
427	Install Heritage - Educational Building Connection Canopy	20 d	Fri 15/01/21	Wed 10/02/21	0%
428	**SERVICES**	**264 d**	**Tue 14/07/20**	**Sat 26/06/21**	**2%**
429	**SERVICES RESIDENTIAL BUILDING**	**165 d**	**Thu 15/10/20**	**Fri 28/05/21**	**0%**
430	L1 Run High Level Services	10 d	Thu 15/10/20	Mon 26/10/20	0%
431	L2 Run High Level Services	15 d	Mon 2/11/20	Wed 18/11/20	0%
432	L3 Run High Level Services	15 d	Thu 19/11/20	Wed 9/12/20	0%
433	L4 Run High Level Services	10 d	Thu 10/12/20	Mon 21/12/20	0%
434	L1 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Sat 7/11/20	Wed 18/11/20	0%
435	L2 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Tue 1/12/20	Tue 15/12/20	0%
436	L3 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Tue 22/12/20	Wed 20/01/21	0%
437	L4 Rough In Trades Sequence, Hydraulic, Mechanical, Fi	8 d	Thu 21/01/21	Tue 2/02/21	0%
438	Roof Plant Install Services	15 d	Wed 3/02/21	Fri 19/02/21	0%
439	Level 1 Fitoff Services	10 d	Sat 6/03/21	Wed 17/03/21	0%
440	Level 2 Fitoff Services	10 d	Wed 7/04/21	Sat 17/04/21	0%
441	Level 3 Fitoff Services	10 d	Wed 21/04/21	Wed 5/05/21	0%
442	Level 4 Fitoff Services	10 d	Thu 6/05/21	Mon 17/05/21	0%
443	Commission Services	10 d	Tue 18/05/21	Fri 28/05/21	0%
444	**SERVICES EDUCATION BUILDING**	**167 d**	**Sat 7/11/20**	**Sat 26/06/21**	**0%**
445	L1 Run High Level Services	15 d	Sat 7/11/20	Tue 24/11/20	0%
446	L2 Run High Level Services	15 d	Wed 25/11/20	Tue 15/12/20	0%
447	L3 Run High Level Services	15 d	Tue 2/02/21	Thu 18/02/21	0%
448	L4 Run High Level Services	10 d	Fri 19/02/21	Tue 2/03/21	0%
449	L1 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Wed 25/11/20	Wed 9/12/20	0%
450	L2 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Thu 10/12/20	Mon 21/12/20	0%
451	L3 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	10 d	Mon 15/03/21	Thu 25/03/21	0%
452	L4 Rough In Trades Sequence, Hydraulic, Mechanical, Fi	8 d	Fri 26/03/21	Thu 8/04/21	0%
453	Roof Plant Install Services	10 d	Fri 9/04/21	Tue 20/04/21	0%
454	Level 2 Fitoff Services	10 d	Thu 15/04/21	Thu 29/04/21	0%
455	Level 3 Fitoff Services	6 d	Sat 29/05/21	Fri 4/06/21	0%
456	Level 4 Fitoff Services	6 d	Sat 5/06/21	Fri 11/06/21	0%
457	Commission Services	10 d	Wed 16/06/21	Sat 26/06/21	0%
458	**SERVICES HERITAGE BUILDING**	**162 d**	**Tue 14/07/20**	**Tue 16/02/21**	**10%**
459	L1 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	15 d	Tue 14/07/20	Thu 30/07/20	50%
460	L2 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	15 d	Fri 31/07/20	Mon 17/08/20	5%
461	L3 Rough In Trades Sequence, Hydraulic, Mechanical, Fir	15 d	Tue 18/08/20	Thu 3/09/20	0%
462	Level 1 Fitoff Services	10 d	Tue 17/11/20	Fri 27/11/20	0%
463	Level 2 Fitoff Services	10 d	Sat 28/11/20	Sat 12/12/20	0%
464	Level 3 Fitoff Services	10 d	Mon 14/12/20	Tue 12/01/21	0%
465	Commission Services	10 d	Fri 5/02/21	Tue 16/02/21	0%
466	**FINISHES**	**253 d**	**Fri 31/07/20**	**Thu 1/07/21**	**0%**
467	**FINISHES RESIDENTIAL BUILDING STUDENT ACCOMM**	**154 d**	**Tue 13/10/20**	**Thu 13/05/21**	**0%**
468	L1 Mark Up Slab	2 d	Tue 13/10/20	Wed 14/10/20	0%
469	L1 Frame Partitions	10 d	Tue 27/10/20	Fri 6/11/20	0%
470	L1 Frame Ceilings	10 d	Sat 7/11/20	Wed 18/11/20	0%
471	L1 Sheet, Set & Sand Partitions	10 d	Thu 19/11/20	Mon 30/11/20	0%
472	L1 Sheet, Set & Sand Ceilings	10 d	Tue 1/12/20	Tue 15/12/20	0%
473	L1 Membrane and Tiling	10 d	Wed 16/12/20	Thu 14/01/21	0%
474	L1 Door Hardware	10 d	Fri 15/01/21	Fri 29/01/21	0%
475	L1 Joinery	10 d	Sat 30/01/21	Wed 10/02/21	0%



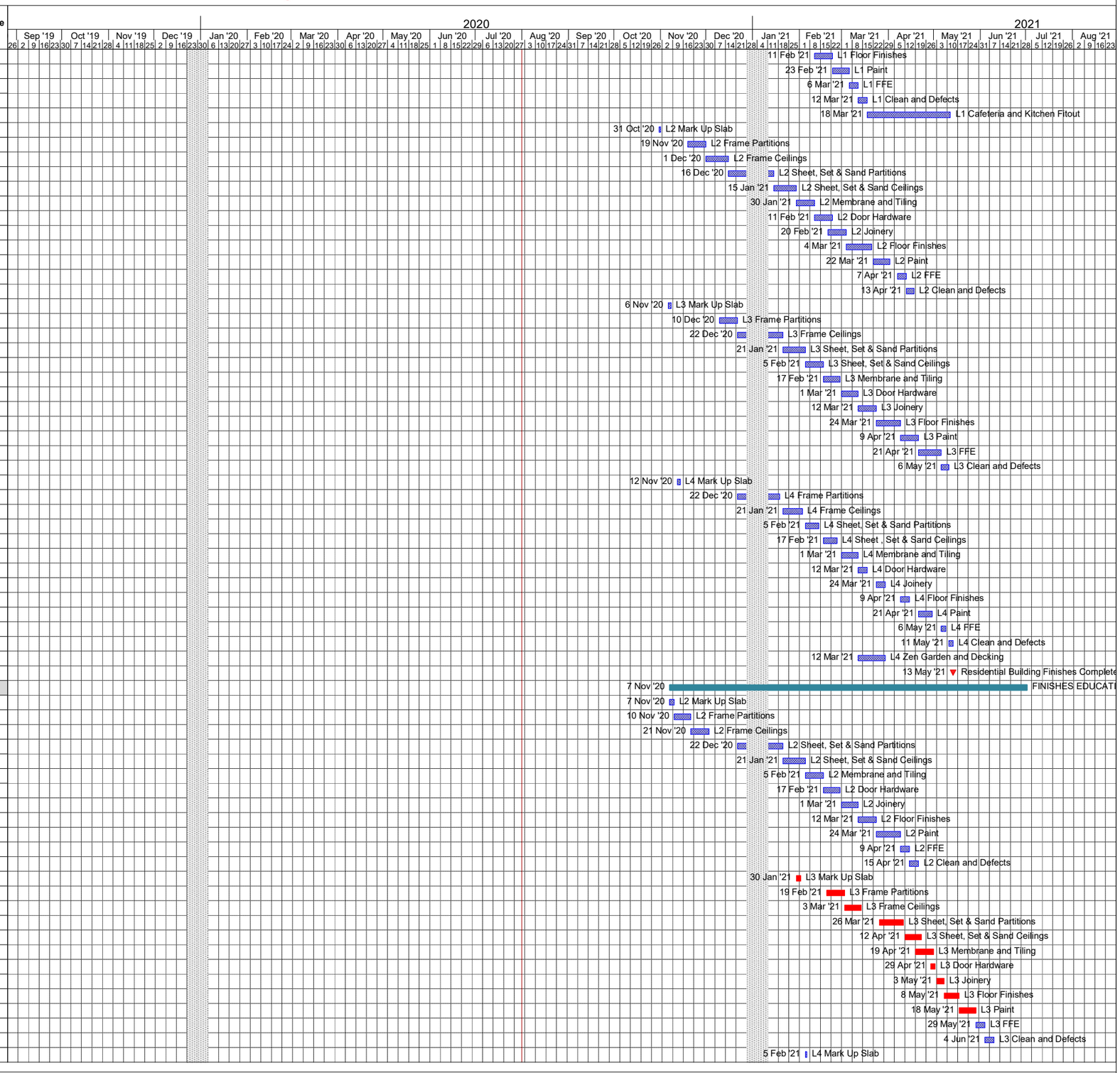
Critical Task | Non-critical | Milestone | Project Summary | Summary

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ID	Task Name	Dur	Start	Finish	% Complete
476	L1 Floor Finishes	10 d	Thu 11/02/21	Mon 22/02/21	0%
477	L1 Paint	10 d	Tue 23/02/21	Fri 5/03/21	0%
478	L1 FFE	5 d	Sat 6/03/21	Thu 11/03/21	0%
479	L1 Clean and Defects	5 d	Fri 12/03/21	Wed 17/03/21	0%
480	L1 Cafeteria and Kitchen Fitout	40 d	Thu 18/03/21	Tue 11/05/21	0%
481	L2 Mark Up Slab	1 d	Sat 31/10/20	Sat 31/10/20	0%
482	L2 Frame Partitions	10 d	Thu 19/11/20	Mon 30/11/20	0%
483	L2 Frame Ceilings	10 d	Tue 1/12/20	Tue 15/12/20	0%
484	L2 Sheet, Set & Sand Partitions	10 d	Wed 16/12/20	Thu 14/01/21	0%
485	L2 Sheet, Set & Sand Ceilings	10 d	Fri 15/01/21	Fri 29/01/21	0%
486	L2 Membrane and Tiling	10 d	Sat 30/01/21	Wed 10/02/21	0%
487	L2 Door Hardware	10 d	Thu 11/02/21	Mon 22/02/21	0%
488	L2 Joinery	10 d	Sat 20/02/21	Wed 3/03/21	0%
489	L2 Floor Finishes	15 d	Thu 4/03/21	Sat 20/03/21	0%
490	L2 Paint	10 d	Mon 22/03/21	Thu 1/04/21	0%
491	L2 FFE	5 d	Wed 7/04/21	Mon 12/04/21	0%
492	L2 Clean and Defects	5 d	Tue 13/04/21	Sat 17/04/21	0%
493	L3 Mark Up Slab	2 d	Fri 6/11/20	Sat 7/11/20	0%
494	L3 Frame Partitions	10 d	Thu 10/12/20	Mon 21/12/20	0%
495	L3 Frame Ceilings	10 d	Tue 22/12/20	Wed 20/01/21	0%
496	L3 Sheet, Set & Sand Partitions	10 d	Thu 21/01/21	Thu 4/02/21	0%
497	L3 Sheet, Set & Sand Ceilings	10 d	Fri 5/02/21	Tue 16/02/21	0%
498	L3 Membrane and Tiling	10 d	Wed 17/02/21	Sat 27/02/21	0%
499	L3 Door Hardware	10 d	Mon 1/03/21	Thu 11/03/21	0%
500	L3 Joinery	10 d	Fri 12/03/21	Tue 23/03/21	0%
501	L3 Floor Finishes	10 d	Wed 24/03/21	Thu 8/04/21	0%
502	L3 Paint	10 d	Fri 9/04/21	Tue 20/04/21	0%
503	L3 FFE	10 d	Wed 21/04/21	Wed 5/05/21	0%
504	L3 Clean and Defects	4 d	Thu 6/05/21	Mon 10/05/21	0%
505	L4 Mark Up Slab	2 d	Thu 12/11/20	Fri 13/11/20	0%
506	L4 Frame Partitions	8 d	Tue 22/12/20	Mon 18/01/21	0%
507	L4 Frame Ceilings	8 d	Thu 21/01/21	Tue 2/02/21	0%
508	L4 Sheet, Set & Sand Partitions	8 d	Fri 5/02/21	Sat 13/02/21	0%
509	L4 Sheet , Set & Sand Ceilings	8 d	Wed 17/02/21	Thu 25/02/21	0%
510	L4 Membrane and Tiling	10 d	Mon 1/03/21	Thu 11/03/21	0%
511	L4 Door Hardware	5 d	Fri 12/03/21	Wed 17/03/21	0%
512	L4 Joinery	5 d	Wed 24/03/21	Mon 29/03/21	0%
513	L4 Floor Finishes	5 d	Fri 9/04/21	Wed 14/04/21	0%
514	L4 Paint	5 d	Wed 21/04/21	Thu 29/04/21	0%
515	L4 FFE	3 d	Thu 6/05/21	Sat 8/05/21	0%
516	L4 Clean and Defects	3 d	Tue 11/05/21	Thu 13/05/21	0%
517	L4 Zen Garden and Decking	15 d	Fri 12/03/21	Mon 29/03/21	0%
518	*Residential Building Finishes Complete*	*0 d*	*Thu 13/05/21*	*Thu 13/05/21*	*0%*
519	**FINISHES EDUCATIONAL BUILDING**	**171 d**	**Sat 7/11/20**	**Thu 1/07/21**	**0%**
520	L2 Mark Up Slab	2 d	Sat 7/11/20	Mon 9/11/20	0%
521	L2 Frame Partitions	10 d	Tue 10/11/20	Fri 20/11/20	0%
522	L2 Frame Ceilings	10 d	Sat 21/11/20	Wed 2/12/20	0%
523	L2 Sheet, Set & Sand Partitions	10 d	Tue 22/12/20	Wed 20/01/21	0%
524	L2 Sheet, Set & Sand Ceilings	10 d	Thu 21/01/21	Thu 4/02/21	0%
525	L2 Membrane and Tiling	10 d	Fri 5/02/21	Tue 16/02/21	0%
526	L2 Door Hardware	10 d	Wed 17/02/21	Sat 27/02/21	0%
527	L2 Joinery	10 d	Mon 1/03/21	Thu 11/03/21	0%
528	L2 Floor Finishes	10 d	Fri 12/03/21	Tue 23/03/21	0%
529	L2 Paint	10 d	Wed 24/03/21	Thu 8/04/21	0%
530	L2 FFE	5 d	Fri 9/04/21	Wed 14/04/21	0%
531	L2 Clean and Defects	5 d	Thu 15/04/21	Tue 20/04/21	0%
532	L3 Mark Up Slab	2 d	Sat 30/01/21	Mon 1/02/21	0%
533	L3 Frame Partitions	10 d	Fri 19/02/21	Tue 2/03/21	0%
534	L3 Frame Ceilings	10 d	Wed 3/03/21	Sat 13/03/21	0%
535	L3 Sheet, Set & Sand Partitions	10 d	Fri 26/03/21	Sat 10/04/21	0%
536	L3 Sheet, Set & Sand Ceilings	10 d	Mon 12/04/21	Thu 22/04/21	0%
537	L3 Membrane and Tiling	8 d	Mon 19/04/21	Fri 30/04/21	0%
538	L3 Door Hardware	3 d	Thu 29/04/21	Sat 1/05/21	0%
539	L3 Joinery	5 d	Mon 3/05/21	Fri 7/05/21	0%
540	L3 Floor Finishes	8 d	Sat 8/05/21	Mon 17/05/21	0%
541	L3 Paint	10 d	Tue 18/05/21	Fri 28/05/21	0%
542	L3 FFE	5 d	Sat 29/05/21	Thu 3/06/21	0%
543	L3 Clean and Defects	5 d	Fri 4/06/21	Wed 9/06/21	0%
544	L4 Mark Up Slab	1 d	Fri 5/02/21	Fri 5/02/21	0%

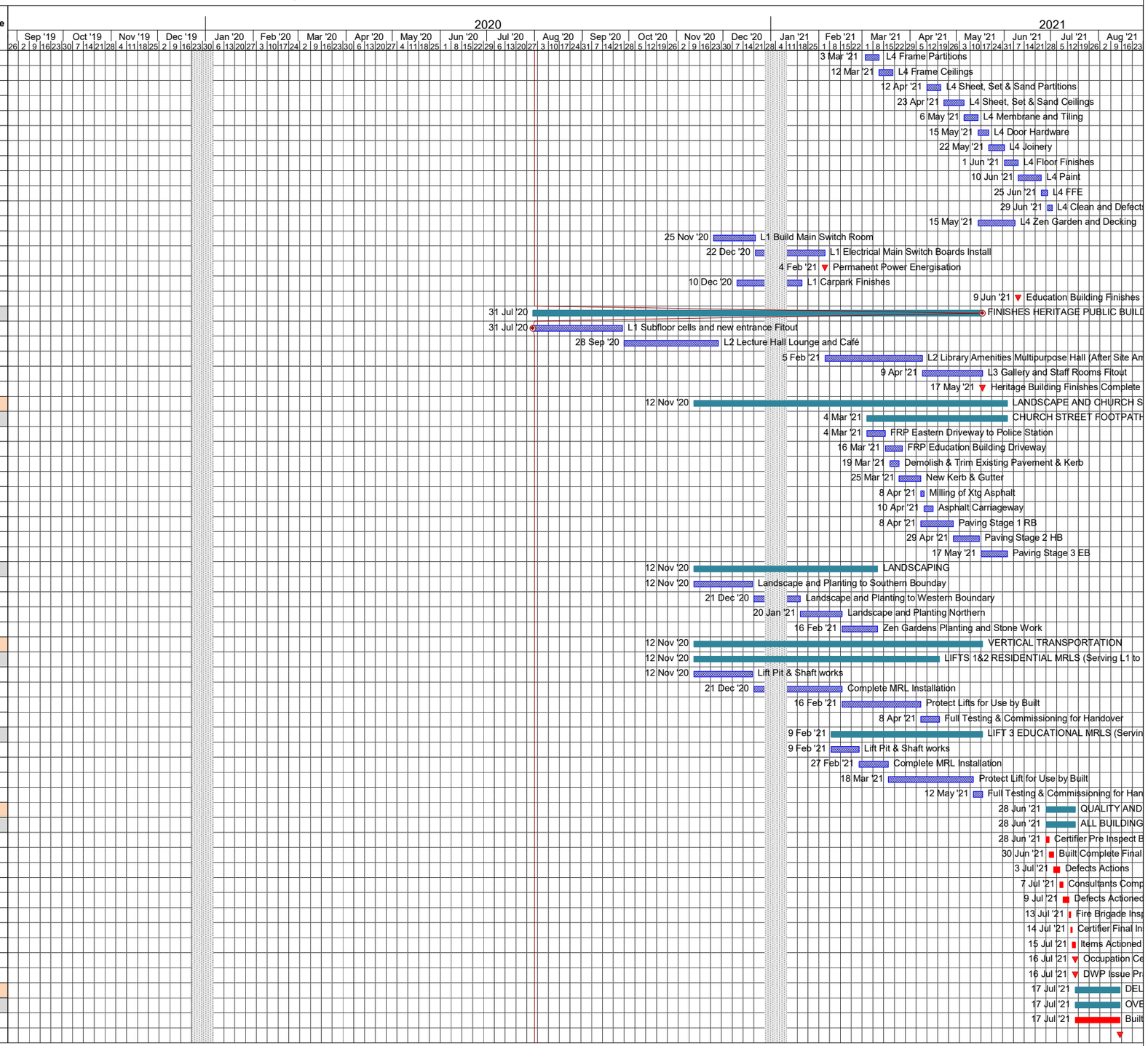


Critical Task | Non-critical | Milestone | Project Summary | Summary

Prepared By: RMc
Checked:
Revision : Rev 7 Contract

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Contract Programme

ID	Task Name	Dur	Start	Finish	% Complete
545	L4 Frame Partitions	8 d	Wed 3/03/21	Thu 11/03/21	0%
546	L4 Frame Ceilings	8 d	Fri 12/03/21	Sat 20/03/21	0%
547	L4 Sheet, Set & Sand Partitions	8 d	Mon 12/04/21	Tue 20/04/21	0%
548	L4 Sheet, Set & Sand Ceilings	8 d	Fri 23/04/21	Wed 5/05/21	0%
549	L4 Membrane and Tiling	8 d	Thu 6/05/21	Fri 14/05/21	0%
550	L4 Door Hardware	6 d	Sat 15/05/21	Fri 21/05/21	0%
551	L4 Joinery	8 d	Sat 22/05/21	Mon 31/05/21	0%
552	L4 Floor Finishes	8 d	Tue 1/06/21	Wed 9/06/21	0%
553	L4 Paint	10 d	Thu 10/06/21	Thu 24/06/21	0%
554	L4 FFE	3 d	Fri 25/06/21	Mon 28/06/21	0%
555	L4 Clean and Defects	3 d	Tue 29/06/21	Thu 1/07/21	0%
556	L4 Zen Garden and Decking	20 d	Sat 15/05/21	Mon 7/06/21	0%
557	L1 Build Main Switch Room	20 d	Wed 25/11/20	Mon 21/12/20	0%
558	L1 Electrical Main Switch Boards Install	20 d	Tue 22/12/20	Thu 4/02/21	0%
559	*Permanent Power Energisation*	*0 d*	*Thu 4/02/21*	*Thu 4/02/21*	*0%*
560	L1 Carpark Finishes	20 d	Thu 10/12/20	Wed 20/01/21	0%
561	*Education Building Finishes Complete*	*0 d*	*Wed 9/06/21*	*Wed 9/06/21*	*0%*
562	**FINISHES HERITAGE PUBLIC BUILDING**	**217 d**	**Fri 31/07/20**	**Mon 17/05/21**	**0%**
563	L1 Subfloor cells and new entrance Fitout	50 d	Fri 31/07/20	Sat 26/09/20	0%
564	L2 Lecture Hall Lounge and Café	50 d	Mon 28/09/20	Fri 27/11/20	0%
565	L2 Library Amenities Multipurpose Hall (After Site Amenities Rem	50 d	Fri 5/02/21	Thu 8/04/21	0%
566	L3 Gallery and Staff Rooms Fitout	30 d	Fri 9/04/21	Mon 17/05/21	0%
567	*Heritage Building Finishes Complete*	*0 d*	*Mon 17/05/21*	*Mon 17/05/21*	*0%*
568	**LANDSCAPE AND CHURCH STREET WORKS**	**145 d**	**Thu 12/11/20**	**Wed 2/06/21**	**0%**
569	**CHURCH STREET FOOTPATH & ENTRY WORKS**	**71 d**	**Thu 4/03/21**	**Wed 2/06/21**	**0%**
570	FRP Eastern Driveway to Police Station	10 d	Thu 4/03/21	Mon 15/03/21	0%
571	FRP Education Building Driveway	10 d	Tue 16/03/21	Fri 26/03/21	0%
572	Demolish & Trim Existing Pavement & Kerb	5 d	Fri 19/03/21	Wed 24/03/21	0%
573	New Kerb & Gutter	8 d	Thu 25/03/21	Wed 7/04/21	0%
574	Milling of Xtg Asphalt	2 d	Thu 8/04/21	Fri 9/04/21	0%
575	Asphalt Carriageway	5 d	Sat 10/04/21	Thu 15/04/21	0%
576	Paving Stage 1 RB	15 d	Thu 8/04/21	Wed 28/04/21	0%
577	Paving Stage 2 HB	15 d	Thu 29/04/21	Sat 15/05/21	0%
578	Paving Stage 3 EB	15 d	Mon 17/05/21	Wed 2/06/21	0%
579	**LANDSCAPING**	**80 d**	**Thu 12/11/20**	**Wed 10/03/21**	**0%**
580	Landscape and Planting to Southern Bounday	30 d	Thu 12/11/20	Sat 19/12/20	0%
581	Landscape and Planting to Western Boundary	10 d	Mon 21/12/20	Tue 19/01/21	0%
582	Landscape and Planting Northern	20 d	Wed 20/01/21	Mon 15/02/21	0%
583	Zen Gardens Planting and Stone Work	20 d	Tue 16/02/21	Wed 10/03/21	0%
584	**VERTICAL TRANSPORTATION**	**131 d**	**Thu 12/11/20**	**Mon 17/05/21**	**0%**
585	**LIFTS 1&2 RESIDENTIAL MRLS (Serving L1 to L4)**	**110 d**	**Thu 12/11/20**	**Mon 19/04/21**	**0%**
586	Lift Pit & Shaft works	30 d	Thu 12/11/20	Sat 19/12/20	0%
587	Complete MRL Installation	30 d	Mon 21/12/20	Mon 15/02/21	0%
588	Protect Lifts for Use by Built	40 d	Tue 16/02/21	Wed 7/04/21	0%
589	Full Testing & Commissioning for Handover	10 d	Thu 8/04/21	Mon 19/04/21	0%
590	**LIFT 3 EDUCATIONAL MRLS (Serving L1 to L4)**	**77 d**	**Tue 9/02/21**	**Mon 17/05/21**	**0%**
591	Lift Pit & Shaft works	16 d	Tue 9/02/21	Fri 26/02/21	0%
592	Complete MRL Installation	16 d	Sat 27/02/21	Wed 17/03/21	0%
593	Protect Lift for Use by Built	40 d	Thu 18/03/21	Tue 11/05/21	0%
594	Full Testing & Commissioning for Handover	5 d	Wed 12/05/21	Mon 17/05/21	0%
595	**QUALITY AND HANDOVER PLANNING**	**17 d**	**Mon 28/06/21**	**Fri 16/07/21**	**0%**
596	**ALL BUILDINGS**	**17 d**	**Mon 28/06/21**	**Fri 16/07/21**	**0%**
597	Certifier Pre Inspect Buildings	2 d	Mon 28/06/21	Tue 29/06/21	0%
598	Built Complete Final Defect List	3 d	Wed 30/06/21	Fri 2/07/21	0%
599	Defects Actions	3 d	Sat 3/07/21	Tue 6/07/21	0%
600	Consultants Complete Defect List	2 d	Wed 7/07/21	Thu 8/07/21	0%
601	Defects Actioned	3 d	Fri 9/07/21	Mon 12/07/21	0%
602	Fire Brigade Inspect & Life Safety Measures In Place	1 d	Tue 13/07/21	Tue 13/07/21	0%
603	Certifier Final Inspection	1 d	Wed 14/07/21	Wed 14/07/21	0%
604	Items Actioned	2 d	Thu 15/07/21	Fri 16/07/21	0%
605	*Occupation Certificate Issued*	*0 d*	*Fri 16/07/21*	*Fri 16/07/21*	*0%*
606	*DWP Issue Practical Completion*	*0 d*	*Fri 16/07/21*	*Fri 16/07/21*	*0%*
607	**DELAY ALLOWANCE**	**25 d**	**Sat 17/07/21**	**Sat 14/08/21**	**0%**
608	**OVERALL DELAY ALLOWANCE**	**25 d**	**Sat 17/07/21**	**Sat 14/08/21**	**0%**
609	Built Project Delay Allowance	25 d	Sat 17/07/21	Sat 14/08/21	0%
610	*Built Project Complete*	*0 d*	*Sat 14/08/21*	*Sat 14/08/21*	*0%*



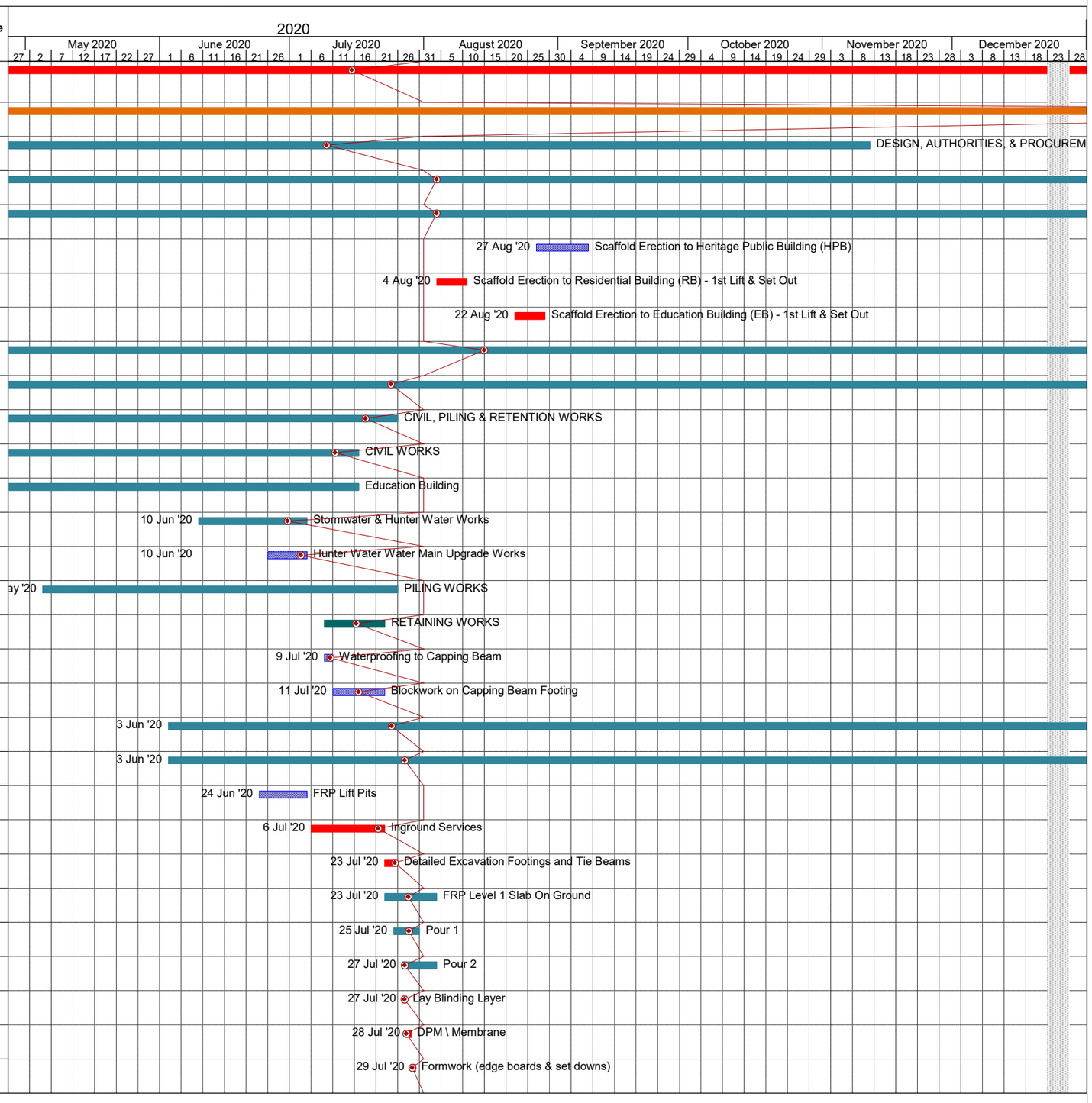
Critical Task | Non-critical | Milestone | Project Summary | Summary

Appendix E – Four Week Programme

Prepared By: RMc
Checked:
Revision : Rev 5 Target

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Construction Programme

ID	Task Name	Dur	Start	Finish	% Complete
0	**NIHON UNIVERSITY NEWCASTLE NSW AUSTRALIA**	**460 d**	**Wed 18/09/19**	**Sat 22/05/21**	**49%**
1	**KEY PROJECT MILESTONES**	**430 d**	**Mon 21/10/19**	**Sat 22/05/21**	**99%**
31	**DESIGN, AUTHORITIES, & PROCUREMENT**	**299 d**	**Mon 21/10/19**	**Wed 11/11/20**	**90%**
188	**SITE ESTABLISHMENT, CRANES, HOISTS ETC**	**349 d**	**Tue 29/10/19**	**Fri 12/02/21**	**66%**
200	**SCAFFOLD AND HOARDINGS**	**296 d**	**Tue 21/01/20**	**Fri 12/02/21**	**34%**
205	Scaffold Erection to Heritage Public Building (HPB)	10 d	Thu 27/08/20	Mon 7/09/20	0%
206	Scaffold Erection to Residential Building (RB) - 1st Lift & Set Out	6 d	Tue 4/08/20	Mon 10/08/20	0%
207	Scaffold Erection to Education Building (EB) - 1st Lift & Set Out	6 d	Sat 22/08/20	Fri 28/08/20	0%
211	**PRELIMS ITEMS - CRANES, HOISTS ETC**	**229 d**	**Wed 8/04/20**	**Tue 9/02/21**	**50%**
219	**CONSTRUCTION WORKS**	**389 d**	**Tue 17/12/19**	**Sat 22/05/21**	**19%**
245	**CIVIL, PILING & RETENTION WORKS**	**110 d**	**Mon 9/03/20**	**Sat 25/07/20**	**95%**
246	**CIVIL WORKS**	**102 d**	**Mon 9/03/20**	**Thu 16/07/20**	**97%**
252	**Education Building**	**73 d**	**Thu 16/04/20**	**Thu 16/07/20**	**100%**
264	**Stormwater & Hunter Water Works**	**22 d**	**Wed 10/06/20**	**Sat 4/07/20**	**89%**
265	Hunter Water Water Main Upgrade Works	22 d	Wed 10/06/20	Sat 4/07/20	95%
267	**PILING WORKS**	**67 d**	**Tue 5/05/20**	**Sat 25/07/20**	**100%**
274	**RETAINING WORKS**	**12 d**	**Thu 9/07/20**	**Wed 22/07/20**	**53%**
275	Waterproofing to Capping Beam	2 d	Thu 9/07/20	Fri 10/07/20	70%
276	Blockwork on Capping Beam Footing	10 d	Sat 11/07/20	Wed 22/07/20	50%
277	**STRUCTURE WORKS**	**200 d**	**Wed 3/06/20**	**Wed 24/02/21**	**17%**
278	**RESIDENTIAL BUILDING (RB)**	**200 d**	**Wed 3/06/20**	**Wed 24/02/21**	**27%**
280	FRP Lift Pits	10 d	Wed 24/06/20	Sat 4/07/20	100%
281	Inground Services	15 d	Mon 6/07/20	Wed 22/07/20	90%
282	Detailed Excavation Footings and Tie Beams	3 d	Thu 23/07/20	Sat 25/07/20	70%
283	**FRP Level 1 Slab On Ground**	**10 d**	**Thu 23/07/20**	**Mon 3/08/20**	**58%**
284	**Pour 1**	**5 d**	**Sat 25/07/20**	**Thu 30/07/20**	**100%**
292	**Pour 2**	**7 d**	**Mon 27/07/20**	**Mon 3/08/20**	**12%**
293	Lay Blinding Layer	1 d	Mon 27/07/20	Mon 27/07/20	75%
294	DPM \ Membrane	1 d	Tue 28/07/20	Tue 28/07/20	0%
295	Formwork (edge boards & set downs)	1 d	Wed 29/07/20	Wed 29/07/20	10%



Critical Task | Non-critical | Milestone | Project Summary | Summary

Prepared By: RMc
Checked:
Revision : Rev 5 Target

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Construction Programme

ID	Task Name	Dur	Start	Finish	% Complete
296	Reinforcement & Mesh	1 d	Thu 30/07/20	Thu 30/07/20	0%
297	Form Set Downs	1 d	Fri 31/07/20	Fri 31/07/20	0%
298	Engineers Inspection & Rectification Works	1 d	Sat 1/08/20	Sat 1/08/20	0%
299	Concrete Pour 2	1 d	Mon 3/08/20	Mon 3/08/20	0%
300	FRP Level 1- 2 Verticals	8 d	Thu 23/07/20	Fri 31/07/20	50%
301	**FRP Level 2 Suspended Slab**	**20 d**	**Tue 4/08/20**	**Wed 26/08/20**	**0%**
302	Formwork	5 d	Tue 4/08/20	Sat 8/08/20	0%
303	Bottom Reinforcement	3 d	Fri 7/08/20	Mon 10/08/20	0%
304	Post Tensioning	3 d	Tue 11/08/20	Thu 13/08/20	0%
305	Top Reinforcement	2 d	Fri 14/08/20	Sat 15/08/20	0%
306	Engineers Inspection & Rectification Works	1 d	Mon 17/08/20	Mon 17/08/20	0%
307	Concrete Pour	1 d	Tue 18/08/20	Tue 18/08/20	0%
308	FRP Level 2-3 Verticals	5 d	Wed 19/08/20	Mon 24/08/20	0%
309	Initial PT Stress	1 d	Wed 19/08/20	Wed 19/08/20	0%
310	Final PT Stress	1 d	Wed 26/08/20	Wed 26/08/20	0%
311	**FRP Level 3 Suspended Slab**	**20 d**	**Tue 25/08/20**	**Wed 16/09/20**	**0%**
346	**EDUCATION BUILDING (EB)**	**104 d**	**Thu 23/07/20**	**Tue 24/11/20**	**0%**
347	FRP Pile Caps & Capping Beams	10 d	Thu 23/07/20	Mon 3/08/20	0%
348	FRP Lift Pits	10 d	Mon 27/07/20	Thu 6/08/20	0%
349	Detailed Excavation Footings and Tie Beams	2 d	Fri 7/08/20	Sat 8/08/20	0%
350	Inground Services	5 d	Fri 7/08/20	Wed 12/08/20	0%
351	**FRP Level 1 Slab On Ground**	**18 d**	**Thu 13/08/20**	**Wed 2/09/20**	**0%**
352	Lay Blinding Layer	2 d	Thu 13/08/20	Fri 14/08/20	0%
353	DPM \ Termite Barrier	1 d	Sat 15/08/20	Sat 15/08/20	0%
354	Formwork (edge boards & set downs)	2 d	Mon 17/08/20	Tue 18/08/20	0%
355	Reinforcement & Mesh	3 d	Tue 18/08/20	Thu 20/08/20	0%
356	Engineers Inspection & Rectification Works	1 d	Thu 20/08/20	Thu 20/08/20	0%
357	Concrete Pour	1 d	Fri 21/08/20	Fri 21/08/20	0%
358	FRP Level 1- 2 Verticals	5 d	Sat 22/08/20	Thu 27/08/20	0%
359	Load Bearing Masonary	10 d	Sat 22/08/20	Wed 2/09/20	0%
360	**FRP Level 2 Suspended Slab**	**20 d**	**Fri 28/08/20**	**Sat 19/09/20**	**0%**

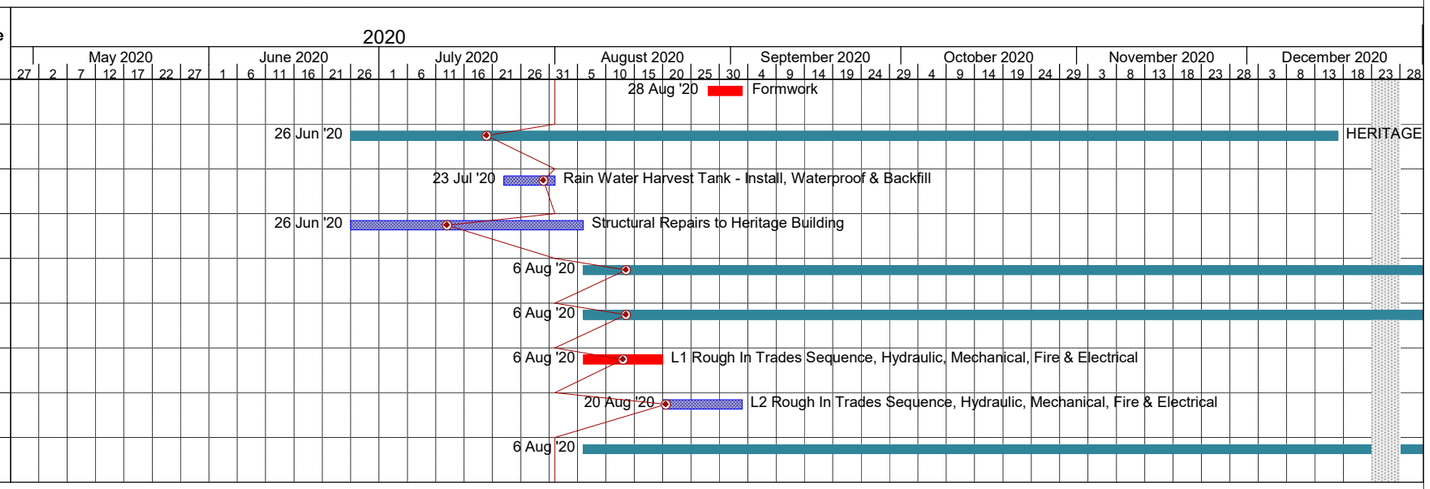


Critical Task | Non-critical | Milestone | Project Summary | Summary

Prepared By: RMc
Checked:
Revision : Rev 5 Target

Built NIHON UNIVERSITY
9 CHURCH STREET NEWCASTLE 2300
Construction Programme

ID	Task Name	Dur	Start	Finish	% Complete
361	Formwork	5 d	Fri 28/08/20	Wed 2/09/20	0%
405	**HERITAGE BUILDING (HB)**	**143 d**	**Fri 26/06/20**	**Wed 16/12/20**	**24%**
406	Rain Water Harvest Tank - Install, Waterproof & Backfill	8 d	Thu 23/07/20	Fri 31/07/20	75%
409	Structural Repairs to Heritage Building	35 d	Fri 26/06/20	Wed 5/08/20	40%
457	**SERVICES**	**160 d**	**Thu 6/08/20**	**Tue 9/03/21**	**2%**
487	**SERVICES HERITAGE BUILDING**	**132 d**	**Thu 6/08/20**	**Thu 4/02/21**	**9%**
488	L1 Rough In Trades Sequence, Hydraulic, Mechanical, Fire & Ele	12 d	Thu 6/08/20	Wed 19/08/20	50%
489	L2 Rough In Trades Sequence, Hydraulic, Mechanical, Fire & Ele	12 d	Thu 20/08/20	Wed 2/09/20	5%
495	**FINISHES**	**187 d**	**Thu 6/08/20**	**Wed 14/04/21**	**0%**



Critical Task | Non-critical | Milestone | Project Summary | Summary

Appendix F – Green Star Pathway Status

Appendix G – Statused SSD-9787 Conditions Matrix

SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX		Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
	PART A - ADMINISTRATIVE CONDITIONS										
	Obligation to Minimise Harm to the Environment										
A1	In addition to meeting the specific performance measures and criteria in this consent, all reasonable and feasbible measures must be implemented to prevent, and, if prevention is not reasonable and feasible, minimise any material harm to the environment that may result from the construction and operation of the development.	Note	Note		21-Jan-20						Noted
	Terms of Consent										
A2	The development may only be carried out: (a) in compliance with the conditions of this consent; (b) in accordance with all written directions of the Planning Secretary; (c) generally in accordance with the EIS and Response to Submissions; (d) in accordance with the approved plans in the table below:	Note	Note		23-Jan-20						Noted
A3	Consistent with the requirements in this consent, the Planning Secretary may make written directions to the Applicant in relation to: (a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Planning Secretary; (b) any reports, reviews or audits commissioned by the Planning Secretary regarding compliance with this approval; and (c) the implementation of any actions or measures contained in any such document referred to in (a) above.	Note	Note								Noted
A4	The conditions of this consent and directions of the Planning Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document listed in condition A2(c). In the event of an inconsistency, ambiguity or conflict between any of the documents listed in condition A2(c), the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.	Note	Note								Noted
	Limits of Consent										
A5	This consent lapses five years after the date of consent unless work is physically commenced.	Note	Note		21-Jan-20						Noted
	Prescribed Conditions										
A6	The Applicant must comply with all relevant prescribed conditions of development consent under Part 6, Division 8A of the EP&A Regulation.	Note	Note		21-Jan-20						Noted
	Planning Secretary as Moderator										
A7	In the event of a dispute between the Applicant and a public authority, in relation to an applicable requirement in this approval or relevant matter relating to the Development, either party may refer the matter to the Planning Secretary for resolution. The Planning Secretary's resolution of the matter must be binding on the parties.	Note	Note								Noted
	Evidence of Consultation										
A8	Where conditions of this consent require consultation with an identified party, the Applicant must: (a) consult with the relevant party prior to submitting the subject document for information or approval; and (b) provide details of the consultation undertaken including: (i) the outcome of that consultation, matters resolved and unresolved; and (ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.	Note	Note		21-Jan-20			✓			Noted - will form part of relevant CC submissions as or when required
	Staging										
A9	The project may be constructed and operated in stages. Where staged construction or operation is proposed, a Staging Report (for either or both construction and operation as the case may be) must be prepared and submitted for the information of the Planning Secretary. The Staging Report must be submitted to the Planning Secretary no later than one month before the commencement of construction of the first of the proposed stages of construction (or if only staged operation is proposed, one month before the commencement of operation of the first of the proposed stages of operation).	Note	Note		23-Jan-20			✓			Submitted to Planning Secretary with acknowledgment of receipt from DoP 18/02/20 noting no further comment at this time
A10	A Staging Report prepared in accordance with condition A9 must: (a) if staged construction is proposed, set out how the construction of the whole of the project will be staged, including details of work and other activities to be carried out in each stage and the general timing of when construction of each stage will commence and finish; (b) if staged operation is proposed, set out how the operation of the whole of the project will be staged, including details of work and other activities to be carried out in each stage and the general timing of when operation of each stage will commence and finish (if relevant); (c) specify how compliance with conditions will be achieved across and between each of the stages of the project; and (d) set out mechanisms for managing any cumulative impacts arising from the proposed staging.										Submitted to Planning Secretary
	[i] The Built construction staging triggers this condition - Planning Secretary to be advised		**Note**	**dwp**	31-Jan-20						
	[ii] Nihon is not planning a staged operation - no action required - no staging documentation to be forwarded to the Planning Sectretary	**Note**		**dwp**	31-Jan-20						
A11	Where staging is proposed, the project must be staged in accordance with the Staging Report, as submitted to the Planning Secretary.	Note	Note								Noted
A12	Where staging is proposed, the terms of this approval that apply or are relevant to the works or activities to be carried out in a specific stage must be complied with at the relevant time for that stage.	Note	Note								Noted
	Staging, Combining and Updating Strategies, Plans or Programs										
A13	With the approval of the Planning Secretary, the Applicant may: (a) prepare and submit any strategy, plan (including management plan, architectural or design plan) or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan (including management plan, architectural or design plan) or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan (including management plan, architectural or design plan) or program); (b) combine any strategy, plan (including management plan, architectural or design plan), or program required by this consent (if a clear relationship is demonstrated between the strategies, plans (including management plan, architectural or design plan) or programs that are proposed to be combined); and (c) update any strategy, plan (including management plan, architectural or design plan), or program required by this consent (to ensure the strategies, plans (including management plan, architectural or design plan), or programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).	Note	Note					✓			Submitted to Planning Secretary - awaiting endorsement
A14	If the Planning Secretary agrees, a strategy, plan (including management plan, architectural or design plan), or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.	Note	Note								Noted
A15	If approved by the Planning Secretary, updated strategies, plans (including management plan, architectural or design plan), or programs supersede the previous versions of them and must be implemented in accordance with the condition that requires the strategy, plan, program or drawing.	Note	Note								Noted
	Structural Adequacy										

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
A16	All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the development, must be constructed in accordance with the relevant requirements of the BCA and any additional requirements of the Subsidence Advisory NSW where the building or structure is located on land within a declared Mine Subsidence District. Notes: • Part 8 of the EP&A Regulation sets out the requirements for the certification of the development. • Under section 21 of the Coal Mine Subsidence Compensation Act 2017, the Applicant is required to obtain the Chief Executive of Subsidence Advisory NSW's approval before carrying out certain development in a Mine Subsidence District.							✓	✓		Refer Cardno and Northrop certifications and updated drawings of 15/04/20 and 16/04/20
	[i] Structural adequacy of new buildings engineering certification required to the Certifier		**Built**	**Northrop**							
	[ii] Structural adequacy of existing courthouse - certification required for earthquake strengthening + termite repairs - passed to the Certifier	**Nihon**		**Cardno | dwp**							
	External Walls and Cladding										
A17	The external walls of all buildings including additions to existing buildings must comply with the relevant requirements of the BCA.								✓		Refer dwp design statement 01 dated 16/04/20
	[i] Design certification of external walls including insulation		**Built**	**dwp | Northrop**							
	Site Contamination										
A18	Following the completion of demolition works and prior to the commencement of all other construction, additional site investigations of previously untested or inaccessible areas of the site must be undertaken in accordance with: (a) interim advice dated12 November 2019 and prepared by NSW EPA Accredited Site Auditor Ian Gregson, Principal Environmental Consultant, GHD; (b) the recommendations provided in the Phase 1 Environmental Site Assessment – Technical Note dated 29 April 2019 and prepared by Cardno; (c) NSW EPA Sampling Design Guidelines; (d) Guidelines for the NSW Site Auditor Scheme (3rd edition) 2017 https://www.epa.nsw.gov.au/publications/contaminatedland/17p0269-guidelines-for- thensw-site-auditor-scheme-third-edition; (e) Guidelines for Consultants Reporting on Contaminated Sites, 2011 www.epa.nsw.gov.au/resources/clm/20110650consultantsglines.pdf; (f) The National Environment Protection (assessment of contamination) Measures 2013 as amended; and (g) testing must include assessment of both the soil and groundwater profile.							✓			Noted - Douglas have completed testing for both the new residential building and the new education building (March '20) and included within the amended and final RAP - issued to the PCA 31/03/20
	[i] Additional site testing and reporting to be undertaken once demolition completed		**Built**	**Douglas Partners**							
	[ii] Reviewing and advice on test methods	**Nihon**		**GHD | dwp**							
A19	The additional site investigations report must be reviewed by a NSW EPA Accredited Site Auditor and the Conceptual Remediation Action Plan dated 28 May 2019, prepared by Cardno must be updated to reflect the findings of the additional site investigations required by condition A18. The updated remediation action plan must be approved by a NSW EPA Accredited Site Auditor and submitted to the Planning Secretary prior to the commencement of remediation works.								✓		Approved RAP & DSI submitted to DPIE by dwp on 28/04/2020
	[i] Remedial Action Plan required to be updated and to be submitted to site auditor		**Built**	**Douglas Partners**							
	[ii] Updated report to be reviewed and approved and forwarded to EPA + planning secretary	**Nihon**		**GHD | dwp**							
A20	Remediation works approved as part of this development consent must be carried out in accordance with the remediation action plan approved by a NSW EPA Accredited Site Auditor pursuant to condition A19.										Noted
	[i] Remedial works to be carried out in accordance with the approved RAP - certification required		**Built**	**Douglas Partners**							
	[ii] Review of completed remedial works documentation	**Nihon**		**GHD | dwp**							
	Applicability of Guidelines										
A21	References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.	Note	Note								Noted
A22	Consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.	Note	Note								Noted
	Monitoring and Environmental Audits										
A23	Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, noncompliance notification, Site audit report and independent auditing. Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.	Note	Note		21-Jan-20						Noted
	Access to Information										
A24	At least 48 hours before the commencement of construction until the completion of all works under this consent, or such other time as agreed by the Planning Secretary, the Applicant must: (a) make the following information and documents (as they are obtained or approved) publicly available on its website: (i) the documents referred to in condition A2 of this consent; (ii) all current statutory approvals for the development; (iii) all approved strategies, plans and programs required under the conditions of this consent; (iv) regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent; (v) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; (vi) a summary of the current stage and progress of the development; (vii) contact details to enquire about the development or to make a complaint; (viii) a complaints register, updated monthly; (ix) audit reports prepared as part of any independent audit of the development and the Applicant's response to the recommendations in any audit report; (x) any other matter required by the Planning Secretary; and (b) keep such information up to date, to the satisfaction of the Planning Secretary.				23-Jan-20			✓	✓	✓	Closed out
	[i] Information required from contractor to be supplied throughout the construction phase - information website to be displayed on site		**Built**								
	[ii] Web site to be established and maintained with current documents - updated with construction inputs - before the commencement of construction	**Nihon**		**Azusa | dwp**							

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
	Compliance										
A25	The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.	Note	Note		21-Jan-20						Noted - to be provided to all consultants and subcontractors
	Incident Notification, Reporting and Response										
A26	The Planning Secretary must be notified in writing to compliance@planning.nsw.gov.au immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one), and set out the location and nature of the incident.	Note	Note								
A27	Subsequent notification must be given and reports submitted in accordance with the requirements set out in **Appendix 2.**	Note	Note								Noted
	Non-Compliance Notification										
A28	The Planning Secretary must be notified in writing to compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of any non-compliance. The Certifying Authority must also notify the Planning Secretary in writing to compliance@planning.nsw.gov.au within seven days after they identify any non-compliance.	Note	Note								Noted - dwp \ Built to communicate and co-ordinate any non compliances
A29	The notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.	Note	Note								Noted
A30	A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.	Note	Note								
	Revision Strategies, Plans and Programs										
A31	Within three months of: (a) the submission of a compliance report under condition C22; (b) the submission of an incident report under condition A27; (c) the submission of an Independent Audit under condition C32; (d) the approval of any modification of the conditions of this consent; or (e) the issue of a direction of the Planning Secretary under condition A2 which requires a review, the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary and the Certifier must be notified in writing that a review is being carried out. If necessary to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans, programs or drawings required under this consent must be revised, to the satisfaction of the Planning Secretary and/or Certifier (where relevant). Where revisions are required, the revised document must be submitted to the Planning Secretary and/or Certifier for approval and/or information (where relevant) within six weeks of the review. Note: This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.										Noted
	[i] Review and report strategy to be put in place		**Built**								
	[ii] Review and report strategy to be put in place	**Nihon**		**Azusa | dwp**							
	PART B - PRIOR TO ISSUE OF CONSTRUCTION CERTIFICATE										
	Certified Drawings										
B1	Prior to the issue of the relevant Construction Certificate, the Applicant must submit to the satisfaction of the Certifier structural drawings prepared and signed by a suitably qualified practising Structural Engineer that demonstrates compliance with this development consent.							✓	✓	✓	Closed out for all CC's
	[i] Structural certification of compliance of new buildings - issued to the Certifier		**Built**	**Northrop**							
	[ii] Structural certification of compliance of existing courthouse building - issued to the Certifier	**Nihon**		**Cardno**							
	Development Contributions										
B2	Prior to the issue of any Construction Certificate (not including demolition or site remediation works), a Section 7.12 levy totalling **$288,992**, is to be paid to Council in accordance with Section 7.12 of the EP&A Act and City of Newcastle Section 7.12 Newcastle Local Infrastructure Contributions Plan 2019. Prior to payment Council can provide the value of the indexed levy.							✓			Closed out - Required for CC#1
	[i] Developer contribution to be paid prior to commencement of construction	**Nihon**		**Azusa | dwp**							
	External Walls and Cladding										
B3	Prior to the issue of any Construction Certificate, the Applicant must provide the Certifier with documented evidence that the products and systems proposed for use or used in the construction of external walls, including finishes and claddings such as synthetic or aluminium composite panels, comply with the requirements of the BCA. The Applicant must provide a copy of the documentation given to the Certifier to the Planning Secretary within seven days after the Certifier accepts it.								✓		Refer dwp design statement 01 dated 16/04/20
	[i] Documented evidence to the Certifier and a copy to the Planning Secretary required	**Nihon**		**dwp | Azusa**							
	Protection of Public Infrastructure										
B4	Prior to the issue of the relevant Construction Certificate, the Applicant must: (a) consult with the relevant owner and provider of services that are likely to be affected by the development to make suitable arrangements for access to, diversion, protection and support of the affected infrastructure; (b) prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and (c) submit a copy of the dilapidation report to the Planning Secretary, Certifier and Council.				23-Jan-20			✓	✓	✓	Closed-out
	[i] Communications strategies and dilapidation survey to be undertaken - copy of dilapidation report to Certifier + Council		**Built**		**21-Jan-20**						
	[ii] Copy of dilapidation report forwarded to Planning Secretary	**Nihon**		**dwp**	**21-Jan-20**						
	Pre-Construction Dilapidation Report										
B5	Prior to the issue of the relevant Construction Certificate, the Applicant must submit a pre- commencement dilapidation report to Council, NSW Heritage Division and the Certifier. The report must provide an accurate record of the existing condition of adjoining private properties, heritage items and Council assets that are likely to be impacted by the proposed works.				23-Jan-20			✓	✓	✓	Closed out
	[i] Dilapidation survey to be undertaken - copy of dilapidation report to Certifier + Council		**Built**		**21-Jan-20**						
	[ii] Copy of dilapidation report forwarded to Planning Secretary	**Nihon**		**dwp**	**21-Jan-20**						
	Ecologically Sustainable Development										
B6	Prior to the issue of any Construction Certificate, unless otherwise agreed by the Planning Secretary, the Applicant must demonstrate that ESD is being achieved by either: (a) registering for a minimum 4 star Green Star rating with the Green Building Council Australia and submit evidence of registration to the Certifier; or (b) seeking approval from the Planning Secretary for an alternative certification process.				23-Jan-20			✓	✓		Planning Secretary endorsement received 10/02/20.

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
	[i] Management of the green star process - assistance with alternative certification process		**Built**	**dwp|Northrop**							
	[ii] Resolution of alternative certification process - notification to Planning Secretary for approval	**Nihon**		**Azusa | dwp**	**17-Jan-20**						
	Operational Waste Storage and Processing										
B7	Prior to the issue of the relevant Construction Certificate, the Applicant must obtain agreement from Council for the design of the operational waste storage area (where waste removal will be undertaken by Council). Where waste removal will be undertaken by a third party, the design of the operational waste storage area must be in accordance with Council's standards. Evidence of the design and Council endorsement (where relevant) must be provided to the Certifier.								✓		Closed out by dwp Aconex of 6/04/20 ref: dwp AU-GCOR-000296 and dwp design statement 01 dated 16/04/20
	[i] DA approved stormwater drawings to be fowarded to Certifier		**Built**	**dwp|Northrop**							
	[ii] Evidence of design and Council endorsement of operational waste storage and processing to be submitted to Certifier	**Nihon**		**Azusa | dwp**							
	Rainwater Harvesting										
B8	Prior to the issue of the relevant Construction Certificate, the Applicant must ensure that a rainwater reuse/harvesting system for the development is developed for the site. A rainwater re- use plan must be prepared and certified by an experienced hydraulic engineer.								✓		Closed out - Submitted as part of CC#2 documentation
	[i] Rainwater reuse has been designed installation to be finalised + provided to the Certifier		**Built**	**Cardno | Northrop**							
	Operational Car Parking and Service Vehicle Layout										
B9	Prior to the issue of the relevant Construction Certificate, compliance with the following requirements must be submitted to the satisfaction of the Certifier: (a) all vehicles must enter and leave the Site in a forward direction; (b) a minimum of 20 on-site car parking spaces for use during operation of the development and designed in accordance with the latest versions of AS 2890.1 and AS 2890.6; (c) the swept path of the longest construction vehicle entering and exiting the Site in association with the new work, as well as manoeuvrability through the Site, must be in accordance with the latest version of AS 2890.2; (d) the safety of vehicles and pedestrians accessing adjoining properties, where shared vehicle and pedestrian access occurs, is to be addressed; and (e) traffic management devices in the form of 'Stop' and 'Give Way to Pedestrian' signs and line marking must be installed at the entry of proposed driveways within the site and constructed in accordance with AS 2890.1:2004: Parking facilities 0 Off-street car parking.								✓		Refer dwp design statement 01 dated 16/04/20
	[i] Final car parking and service layouts to be design certified + provided to the Certifier		**Built**	**dwp | Northrop**							
	Bicycle Parking and End of Trip Facilities										
B10	Prior to the issue of the relevant Construction Certificate, compliance with the following requirements for secure bicycle parking and end-of-trip facilities must be submitted to the satisfaction of the Certifier: (a) the provision of a minimum 22 bicycle parking spaces; (b) the layout, design and security of bicycle facilities must comply with the minimum requirements of the latest version of AS 2890.3:2015 Parking facilities - Bicycle parking, and be located in easy to access, well-lit areas that incorporate passive surveillance; (c) the provision of end-of-trip facilities for staff; (d) appropriate pedestrian and cyclist advisory signs are to be provided; and (e) all works/regulatory signposting associated with the proposed developments shall be at no cost to the relevant roads authority								✓		Refer dwp design statement 01 dated 16/04/20
	[i] Final bicycle parking and service facilities to be design certified + provided to the Certifier		**Built**	**Cardno | Northrop**							
	PART C - PRIOR TO COMMENCMENT OF CONSTRUCTION										
	Notice of Commencement										
C1	The Applicant must notify the Planning Secretary in writing of the dates of commencement of physical work and operation at least 48 hours before those dates.	Note	Note		22-Jan-20			✓	✓	✓	To be advised prior to commencement of each stage
	[i] Notification of commencement required to the Planning Secretary		**Built**	**dwp**	**22-Jan-20**						
C2	If the construction or operation of the development is to be staged, the Planning Secretary must be notified in writing at least 48 hours before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.	Note	Note					✓	✓	✓	Noted - to be provided for each CC
	[i] Notification of commencement of each construction stage required to the Planning Secretary		**Built**	**dwp**							
	Construction Certificate										
C3	Work must not commence until a Construction Certificate in respect of the work has been issued.							✓	✓	✓	Noted - staged CC's to meet programme
	[i] Construction certification process to be managed		**Built**	**dwp**							
	Outdoor Lighting										
C4	Prior to commencement of lighting installation, evidence must be submitted to the satisfaction of the Certifier that all outdoor lighting within the site has been designed to comply with AS 1158.3.1:2005 Lighting for roads and public spaces – Pedestrian area (Category P) lighting – Performance and design requirements and AS 4282-2019 Control of the obtrusive effects of outdoor lighting.								✓		Closed out - Submitted as part of CC#2
	[i] Finalise in outdoor lighting design process and submit to the Certifier		**Built**	**dwp|Northrop**							
	Demolition										
C5	Prior to the commencement of construction, demolition work plans required by AS 2601-2001 The demolition of structures (Standards Australia, 2001) must be accompanied by a written statement from a suitably qualified person that the proposals contained in the work plan comply with the safety requirements of the Standard. The work plans and the statement of compliance must be submitted to the Certifier and Planning Secretary.				21-Jan-20			✓			Closed out
	[i] Demolition work plans and statement submitted to the certifier		**Built**	**Northrop**	**21-Jan-20**						
	[ii] Copy of works plans and statement forwarded to Planning Secretary	**Nihon**		**dwp**	**21-Jan-20**						
C6	Prior to the commencement of internal demolition works within the State heritage listed former Newcastle Courthouse, evidence must be submitted to the satisfaction of the Certifier confirming works planned are required to make the existing building compliant with the fire and Life Safety Upgrade Strategy, prepared by Design Confidence, dated 12 June 2019, and that impacts to areas of high significant fabric have been limited.								✓		Revised and updated FER completed by Design Confidence & issued to the PCA
	[i] Fire and life safety strategy to be confirmed through fire engineering and forwarded to the Certifier		**Built**	**dwp|Northrop**							
	Environment Management Plan Requirements										

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
C7	Management plans required under this consent must be prepared in accordance with relevant guidelines, and include: (a) detailed baseline data; (b) details of: (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions); (ii) any relevant limits or performance measures and criteria; and (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; (c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria; (d) a program to monitor and report on the: (i) impacts and environmental performance of the development; (ii) effectiveness of the management measures set out pursuant to paragraph (c) above; (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible; (f) a program to investigate and implement ways to improve the environmental performance of the development over time; (g) a protocol for managing and reporting any: (i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria); (ii) complaint; (iii) failure to comply with statutory requirements; and (h) a protocol for periodic review / update of the plan and any updates in response to incidents or matters of non-compliance. Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans				23-Jan-20			✓			Closed out
	[i] Plan requirements incorporated in construction works		Built								
	[ii] Assessment of plan requirements following on from occupation	**Nihon**		**Azusa | dwp**							
	Construction Environmental Management Plan										
C8	Prior to the commencement of construction, the Applicant must submit a Construction Environmental Management Plan (CEMP) to the Certifier and provide a copy to the Planning Secretary. The CEMP must include, but not be limited to, the following: (a) Details of: (i) hours of work; (ii) 24-hour contact details of site manager; (iii) management of dust and odour to protect the amenity of the neighbourhood; (iv) stormwater control and discharge; (v) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site; (vi) groundwater management plan including measures to prevent groundwater contamination; (vii) external lighting in compliance with AS 4282-2019 Control of the obtrusive effects of outdoor lighting; (viii) community consultation and complaints handling; (b) Construction Traffic and Pedestrian Management Sub-Plan (see condition C10); (c) Construction Noise and Vibration Management Sub-Plan (see condition C11); (d) Construction Waste Management Sub-Plan (see condition C11(g)); (e) an unexpected finds protocol for contamination and associated communications procedure; (f) an unexpected finds protocol for non-Aboriginal heritage and associated communications procedure; (g) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site; and				23-Jan-20			✓			Closed out
	[i] CEMP developed by contractor + submission to the Certifier		**Built**		**22-Jan-20**						
	[ii] Copy of Camp forwarded to Planning Secretary	**Nihon**		**dwp**	**22-Jan-20**						
C9	The Applicant must not commence construction of the development until the CEMP is submitted to the Certifier and a copy submitted to the Planning Secretary.	Note	Note		23-Jan-20			✓			Closed out
C10	The Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) must address, but not be limited to, the following: (a) be prepared by a suitably qualified and experienced person(s); (b) be prepared in consultation with Council; (c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction in consideration of potential impacts on general traffic, cyclists and pedestrians and bus services; (d) detail heavy vehicle routes, access and parking arrangements; (e) include a Driver Code of Conduct to: (i) minimise the impacts of earthworks and construction on the local and regional road network; (ii) minimise conflicts with other road users; (iii) minimise road traffic noise; and (iv) ensure truck drivers use specified routes; (f) include a program to monitor the effectiveness of these measures; and (g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.				23-Jan-20			✓			Closed out - CoN confirmation of consultation provided 12/02/20
	[i] CTPMSP developed by contractor + submission to Certifier		**Built**								
	[ii] Submission to the Planning Secretary required	**Nihon**		**dwp**							
C11	The Construction Noise and Vibration Management Sub-Plan must address, but not be limited to, the following: (a) be prepared by a suitably qualified and experienced noise expert; (b) describe procedures for achieving the noise management levels in EPA's Interim Construction Noise Guideline (DECC, 2009); (c) describe the measures to be implemented to manage high noise generating works such as piling, in close proximity to sensitive receivers; (d) include strategies that have been developed with the community for managing high noise generating works; (e) describe the community consultation undertaken to develop the strategies in condition C11(d); (f) include a complaints management system that would be implemented for the duration of the construction; and (g) include a program to monitor and report on the impacts and environmental performance of the development and the effectiveness of the management measures in accordance with condition C7(d). The program should be developed in accordance with the report titled Noise and Vibration Assessment – Operational and Construction report dated May 2019 and prepared by EMM Consulting, and included, but not limited: (i) alert triggers where project trigger noise levels are exceeded; and (ii) procedures for respite periods when sensitive receivers become 'highly noise affected' (i.e. noise levels exceed 75 dB(A).				23-Jan-20			✓			Closed out
	[i] CNVMS-P developed by contractor + submission to PCA		Built	EMM	22-Jan-20						

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
C12	The Construction Waste Management Sub-Plan (CWMSP) must address, but not be limited to, the following: (a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations; and (b) removal of hazardous materials, particularly the method of containment and control of emission of fibres to the air, and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of any building works.				23-Jan-20			✓			Closed out
	[i] CWPMSP developed by contractor + submission to PCA		**Built**								
	Aboriginal Cultural Heritage Management Plan										
C13	Prior to the commencement of construction (excluding demolition works), an Aboriginal Cultural Heritage Management Plan (ACHMP) must be prepared and address, but not be limited to, the following: (a) be prepared by a suitably qualified and experienced expert in consultation with the Registered Aboriginal Parties; (b) be endorsed by the Planning Secretary prior to construction (excluding demolition works) of any part of the development; (c) describe the measures to protect any Aboriginal cultural deposits or relics uncovered during sub surface archaeological testing in accordance with the relevant legislation.							✓			Closed, site works closed out and report issued to PCA. AI # 11 provides confirmation of acceptance from DoP rec'd 16/04/20
	[i] ACHMSP developed by contractor + submission to PCA		**Built**	**AMAC**							
	[ii] Submission to and endorsement by the Planning Secretary required	**Nihon**		**dwp**							
	Construction Worker Transportation Strategy										
C14	Prior to the commencement of construction, the Applicant must submit a Construction Worker Transportation Strategy to the satisfaction of the Certifier. The Strategy must detail the provision of sufficient parking facilities or other travel arrangements for construction workers in order to minimise demand for parking in nearby public and residential streets or public parking facilities.				23-Jan-20			✓			Closed out
	[i] Strategy developed by contractor + submission to the Certifier		**Built**		**22-Jan-20**						
	[ii] Submission to the Planning Secretary required	**Nihon**		**dwp**	**22-Jan-20**						
	Stormwater Management System										
C15	Prior to the commencement of construction, the Applicant must design an operational stormwater management system for the development and submit it to the satisfaction of the Certifier. The system must: (a) be designed by a suitably qualified and experienced person(s); (b) be design in consultation with and to the satisfaction of Council; (c) be generally in accordance with the conceptual design in the EIS as amended by the RtS; (d) be in accordance with applicable Australian Standards; (e) ensure that the system capacity has been designed in accordance with Australian Rainfall and Runoff (Engineers Australia, 2019) and Managing Urban Stormwater: Council Handbook (EPA, 1997) guidelines; (f) divert existing clean surface water around operational areas of the site; (g) direct all sediment laden water in overland flow away from the leachate management system; (h) prevent cross-contamination of clean and sediment or leachate laden water; (i) include details of all on-site retention/detention and water quality treatment systems are to be individually signposted in accordance with Council's Stormwater and Water Efficiency for Development Technical Manual.							✓			Closed in CC#1 submission
	[i] Stormwater management system developed + submission to the Certifier		**Built**	**Cardno | Northrop**							
	Operational Noise – Design of Mechanical Plant and Equipment										
C16	Prior to installation of mechanical plant and equipment, the Applicant must incorporate the noise mitigation recommendations in the Noise and Vibration Assessment – Operational and Construction report dated May 2019 and prepared by EMM Consulting, into the detailed design drawings. The Certifier must verify that all noise mitigation measures have been incorporated into the design to ensure the development will not exceed the recommended operational noise levels identified in the Noise and Vibration Assessment – Operational and Construction report dated May 2019 and prepared by EMM Consulting.								✓		Closed out- Submitted as part of CC#2
	[i] Mechanical services design developed for compliance + submission to Certifier		**Built**	**Northrop**							
	[ii] The Certifier to verify the submitted design	**Nihon**		**Dix Gardner**							
	Archaeological Salvage - Historic Archaeology										
C17	Following the completion of demolition works and prior to the commencement of construction works, all affected historical archaeological deposits are to be subject to professional archaeological excavation and recording. An Archaeological Research Design and Excavation methodology must be prepared to guide the archaeological program. This must be prepared in accordance with Heritage Council of NSW Guidelines and in consultation with Heritage NSW, Department of Premier and Cabinet.							✓			Complete for Building A, B & C. Some minor external works remaining. AI # 11 provides formal confirmation of approval from DoP dated 16/04/20
	[i] Methodology developed for compliance - consultation required with Heritage NSW + Premiers Department		**Built**	**AMAC**							
C18	The Archaeological program must be directed by a suitably qualified and experienced Archaeologist (Excavation Director). The nominated Excavation Director must be able to demonstrate their ability to undertake this work through a response to the Heritage Council's Excavation Director Criteria (July 2011) for salvage excavation for a site of local heritage significance.		-					✓			Closed - issued to PCA via Aconex 14/02/20. AI # 11 provides formal confirmation of approval from DoP dated 16/03/20 and 15/04/20.
	[i] AMAC credentials identified for compliance		**Built**	**AMAC**							
	Landscaping										
C19	Prior to the commencement of construction, the Applicant must prepare a revised Landscape Plan that provides a streetscape treatment that does not impede on the understanding of the former Newcastle Courthouse and its relationship to its environment and setting, and submit a copy to the Planning Secretary. The plan must (a) be prepared by a qualified heritage landscape consultant and submitted to the NSW Heritage Council, or its delegate, for endorsement; (b) provide an analysis of the existing site frontage hardstand, fences and gates, colours and finishes and landscape elements within the precinct; (c) demonstrate the retention of the existing heritage cast iron fence along the site frontage, including the iron palisade fence, sandstone plinth and sandstone piers, unless removal of sections is demonstrated to be essential for the functional requirements of the proposal (e.g. clearance required to establish the approved additional driveway crossover); (d) provide for the planting of eight trees that are sympathetic to the heritage values of the item and ensure no planting grow higher than 1.5 m in directly in front of the former Newcastle Courthouse; (e) detail the location, species, maturity and height at maturity of plants to be planted on-site; (f) include species (trees, shrubs and groundcovers) indigenous to the local area; (g) include the planting of trees with a pot container of 100 litres or greater; (h) include the provision of street tree planting. Species and spacing of trees are to be sympathetic to the heritage values of the item and are to be determined in consultation with Council.								✓		dwp confirmed condition met and closed out via Aconex of 27/04/20 (NB PCA had previously accepted this as part of the S138 approval and CC#3 submission rather than CC#2).
	[i] Landscape requirements to be worked through for resolution with Council + Heritage NSW	**Nihon**		**dwp | Moir**							
	Public Domain Works										

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
C20	Prior to the commencement of any footpath or public domain works, the Applicant must engage a suitably qualified practicing engineer to design the following public domain works within the Church Street frontage of the site at no cost to Council and in accordance with the Newcastle City Centre Public Domain Manual guideline, design specifications and relevant Australian Standards: (a) new full width footpath and streetscape works and driveway; (b) reconstruct kerb and gutter, including associated road shoulder pavement and any associated drainage works; (c) new street trees and tree planting vaults in accordance with Council's requirement and adjust service pit levels to match new footpath levels; (d) kerb blisters and raised pedestrian crossings at the intersection of Bolton Street and Church Street; (e) upgrade street lighting across the frontage of the site to provide P3 Pedestrian Lighting Category in accordance with Australian Standard 1158.1; (f) upgrade of pedestrian crossing lighting to comply with Australian Standard 1158.4; (g) any necessary adjustments to regulatory signage.									✓	dwp confirmed that the PCA will accept this as part of the S138 approval and CC#3 submission rather than CC#2
	[i] Public domain works to be worked through for final resolution	**Nihon**		**dwp | Moir | Cardno**							
C21	Prior to the commencement of any footpath or public domain works, the Applicant must consult with Council and demonstrate to the Certifier that the public domain design and treatment, as required by condition C20, meets the Council's requirements, including addressing pedestrian management. The Applicant must submit documentation of approval for each stage from Council to the Certifier.									✓	dwp has submitted the s.138 application to Council for assessment and the works will be included under CC#3
	[i] Public domain works to be worked through for final resolution - approval from Council submitted to the Certifier	**Nihon**		**dwp | Moir | cardno**							
	Compliance Reporting										
C22	No later than two weeks before the date notified for the commencement of construction, a Compliance Monitoring and Reporting Program prepared in accordance with the Compliance Reporting Post Approval Requirements (Department 2018) must be submitted to the Planning Secretary and the Certifier.				23-Jan-20			✓			Closed out
	[i] Compliance monitoring and reporting program prepared + provided to the Certifier		**Built**	**dwp | Northrop**							
	[ii] Submission of report to the Planning Secretary required	**Nihon**		**dwp**	**16-Jan-20**						
C23	Compliance Reports of the project must be carried out in accordance with the Compliance Reporting Post Approval Requirements (Department 2018).	Noted	Noted								Noted
C24	The Applicant must make each Compliance Report publicly available 60 days after submitting it to the Planning Secretary and notify the Planning Secretary and the Certifying Authority in writing at least seven days before this is done.										Noted
	[i] Compliance report made available publically and advise Planning Secretary + Certifier	**Nihon**		**Azusa | dwp**							
C25	Notwithstanding the requirements of the Compliance Reporting Post Approval Requirements (Department 2018), the Planning Secretary may approve a request for ongoing annual operational compliance reports to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that an operational compliance report has demonstrated operational compliance.	Note	Note								Noted
	PART D - DURING CONSTRUCTION										
	Site Notice										
D1	A site notice(s): (a) must be prominently displayed at the boundaries of the site during construction for the purposes of informing the public of project details including, but not limited to the details of the Builder, Certifier and Structural Engineer is to satisfy the following requirements; (b) minimum dimensions of the notice must measure 841 mm x 594 mm (A1) with any text on the notice to be a minimum of 30-point type size; (c) the notice is to be durable and weatherproof and is to be displayed throughout the works period; (d) the approved hours of work, the name of the site/ project manager, the responsible managing company (if any), its address and 24-hour contact phone number for any inquiries, including construction/ noise complaint must be displayed on the site notice; and (e) the notice(s) is to be mounted at eye level on the perimeter hoardings/fencing and is to state that unauthorised entry to the site is not permitted.							✓			Closed out
	[i] Site notices developed by contractor + submission to the Certifier		**Built**								
	Operation of Plant and Equipment										
D2	All construction plant and equipment used on site must be maintained in a proper and efficient condition and operated in a proper and efficient manner.										Noted
	[i] Site plant maintained and equipment maintenance by contractor		**Built**								**Ongoing**
	Demolition										
D3	Demolition work must comply with the demolition work plans required by Australian Standard AS 2601-2001 The demolition of structures (Standards Australia, 2001) and endorsed by a suitably qualified person as required by Condition C5.				21-Jan-20			✓			Closed out
	[i] Demolition processes developed by contractor		**Built**								
	Construction Hours										
D4	Construction, including the delivery of materials to and from the site, may only be carried out between the following hours: (a) between 7 am and 6 pm, Mondays to Fridays inclusive; and (b) between 8 am and 1 pm, Saturdays. No work may be carried out on Sundays or public holidays.										Noted
	[i] Construction hours factored into construction program		**Built**								**Ongoing**
D5	Construction activities may be undertaken outside of the hours in condition D4 if required: (a) by the Police or a public authority for the delivery of vehicles, plant or materials; or (b) in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or (c) where the works are inaudible at the nearest sensitive receivers; or (d) where a variation is approved in advance in writing by the Planning Secretary or his nominee if appropriate justification is provided for the works.	Note	Note								Noted
D6	Notification of such construction activities as referenced in condition D5 must be given to affected residents before undertaking the activities or as soon as is practical afterwards.										
	[i] Notification to affected residents required		**Built**								**Ongoing**
D7	Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours: (a) 9am to 12pm, Monday to Friday; (b) 2pm to 5pm Monday to Friday; and (c) 9am to 12pm, Saturday.										Noted
	[i] Check advice with the Certifier - demolition processes not considered as rock breaking or rock hammering - to be monitored		**Built**								**Ongoing**
	Implementation of Management Plans										
D8	The Applicant must carry out the construction of the development in accordance with the most recent version of the approved CEMP (including Sub-Plans) and ACHMP.										Noted
	[i] Monitoring of compliance with management plans		**Built**								**Ongoing**
	Construction Traffic										
D9	All construction vehicles (excluding site personnel vehicles) are to be contained wholly within the site, except if located in an approved on-street work zone, and vehicles must enter the site before stopping.		**Built**								Noted
	Hoarding Requirements										

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
D10	The following hoarding requirements must be complied with: (a) no third-party advertising is permitted to be displayed on the subject hoarding/ fencing; and (b) the construction site manager must be responsible for the removal of all graffiti from any construction hoardings or the like within the construction area within 48 hours of its application.		Built								Noted
	No Obstruction of Public Way										
D11	The public way (outside of any approved construction works zone) must not be obstructed by any materials, vehicles, refuse, skips or the like, under any circumstances.		Built								Noted
	Construction Noise Limits										
D12	The development must be constructed to achieve the construction noise management levels detailed in the Interim Construction Noise Guideline (DECC, 2009). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the management and mitigation measures identified in the approved Construction Noise and Vibration Management Plan.		Built	EMM \ RAPT							Noted
D13	The Applicant must ensure construction vehicles (including concrete agitator trucks) do not arrive at the site or surrounding residential precincts outside of the construction hours of work outlined under condition D4.		Built								Noted
D14	The Applicant must implement, where practicable and without compromising the safety of construction staff or members of the public, the use of 'quackers' to ensure noise impacts on surrounding noise sensitive receivers are minimised.		Built								Noted
	Vibration Criteria										
D15	Vibration caused by construction at any residence or structure outside the site must be limited to: (a) for structural damage, the latest version of DIN 4150-3 (1992-02) Structural vibration - Effects of vibration on structures (German Institute for Standardisation, 1999); and (b) for human exposure, the acceptable vibration values set out in the Environmental Noise Management Assessing Vibration: a technical guideline (DEC, 2006) (as may be updated or replaced from time to time).		Built	EMM \ RAPT							Noted
D16	Vibratory compactors must not be used closer than 30 metres from residential buildings unless vibration monitoring confirms compliance with the vibration criteria specified in condition D15.		Built								Noted
D17	The limits in conditions D15 and D16 apply unless otherwise outlined in a Construction Noise and Vibration Management Plan, approved as part of the CEMP required by condition C11 of this consent.		Built	EMM							Noted
	Tree Protection										
D18	For the duration of the construction works: (a) street trees, with the exception of the one nominated street tree approved for removal to accommodate the new driveway crossover, must not be trimmed or removed unless it forms a part of this development consent or prior written approval from Council is obtained or is required in an emergency to avoid the loss of life or damage to property; (b) all street trees to be retained must be protected at all times during construction. Any tree on the footpath, which is damaged or removed during construction due to an emergency, must be replaced, to the satisfaction of Council; (c) all trees on the site that are not approved for removal must be suitably protected during construction as per recommendations of the Aboricultural Impact Assessment Report dated 17 November 2019 and prepared by Joseph Pidutti Consulting Arborist; and (d) if access to the area within any protective barrier is required during the works, it must be carried out under the supervision of a qualified arborist. Alternative tree protection measures must be installed, as required. The removal of tree protection measures, following completion of the works, must be carried out under the supervision of a qualified arborist and must avoid both direct mechanical injury to the structure of the tree and soil compaction within the canopy or the limit of the former protective fencing, whichever is the greater.		Built								Closed
	Air Quality										
D19	The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.		Built								Noted
D20	During construction, the Applicant must ensure that: (a) exposed surfaces and stockpiles are suppressed by regular watering; (b) all trucks entering or leaving the site with loads have their loads covered; (c) trucks associated with the development do not track dirt onto the public road network; (d) public roads used by these trucks are kept clean; and (e) land stabilisation works are carried out progressively on site to minimise exposed surfaces.		Built								Noted
	Erosion and Sediment Control										
D21	All erosion and sediment control measures must be effectively implemented and maintained at or above design capacity for the duration of the construction works and until such time as all ground disturbed by the works have been stabilised and rehabilitated so that it no longer acts as a source of sediment. Erosion and sediment control techniques, as a minimum, are to be in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom, 2004) commonly referred to as the 'Blue Book'.		Built								Noted
	Imported Soil										
D22	The Applicant must: (a) ensure that only VENM, ENM, or other material approved in writing by EPA is brought onto the site; (b) keep accurate records of the volume and type of fill to be used; and (c) make these records available to the Certifier upon request.		Built								Noted
	Disposal of Seepage and Stormwater										
D23	Adequate provisions must be made to collect and discharge stormwater drainage during construction of the building to the satisfaction of the principal Certifier. The prior written approval of Council must be obtained to connect or discharge site stormwater to Council's stormwater drainage system or street gutter.		Built								Noted
	Unexpected Finds Protocol - Aboriginal Heritage										
D24	In the event that surface disturbance identifies a new Aboriginal object, all works must halt in the immediate area to prevent any further impacts to the object(s). A suitably qualified archaeologist and the registered Aboriginal representatives must be contacted to determine the significance of the objects. The site is to be registered in the Aboriginal Heritage Information Management System (AHIMS) which is managed by EES Group and the management outcome for the site included in the information provided to AHIMS. The Applicant must consult with the Aboriginal community representatives, the archaeologists and EES Group to develop and implement management strategies for all objects/sites. Works shall only recommence with the written approval of EES Group.		Built	AMAC							Noted
	Unexpected Finds Protocol - Historic Heritage										
D25	If any unexpected archaeological relics are uncovered during the work, then all works must cease immediately in that area and the NSW Heritage Division contacted. Depending on the possible significance of the relics, an archaeological assessment and management strategy may be required before further works can continue in that area. Works may only recommence with the written approval of the NSW Heritage Division.		Built	AMAC							Noted
	Waste Storage and Processing										
D26	All waste generated during construction must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.		Built								Noted

	SSD 9787 - FINAL CONDITIONS | SCHEDULE 2 MATRIX	Responsibility		Relevent Consultant/s	Date Addressed	Cost Implication	Time Implication	CC # 1	CC # 2	CC # 3	Status
		Owner	Contractor								
D27	All waste generated during construction must be assess, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014).		**Built**								Noted
D28	The Applicant must ensure that concrete waste and rinse water are not disposed of on the site and are prevented from entering any natural or artificial watercourse.		Built								Noted
	Independent Environmental Audit										
D29	Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the preparation of an Independent Audit Program or commencement of an Independent Audit.										Closed - GHD appointed & endorsed
	[i] Notification of independent auditors to be given to the Planning Secretary and agreed to - relates to environmental aspects of construction	**Nihon**	**Built**	**Azusa | dwp**							
D30	Prior to the commencement of construction, an Independent Audit Program prepared in accordance with the Independent Audit Post Approval Requirements (Department 2018) must be submitted to the Planning Secretary and the Certifier.										Closed - dwp issued
	[i] Independent audit program prepared and submitted to Planning Secretary and the Certifier	**Nihon**	**Built**	**Azusa | dwp**							
D31	Table 1 of the Independent Audit Post Approval Requirements (Department 2018) is amended so that the frequency of audits required in the construction phase is: (a) an initial construction Independent Audit must be undertaken within eight weeks of the notified commencement date of construction; (b) a subsequent Independent Audit of construction must be undertaken no later than six months from the date of the initial construction Independent Audit; and In all other respects Table 1 remains the same. The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified above, upon giving at least 4 weeks notice to the applicant of the date upon which the audit must be commenced.										Noted, Initial Audit undertaken 26/02/20 with final report issued by GHD on 26/03/20. Audit 02 scheduled for 26th August 2020
	[i] Audit program linked to construction dates	**Nihon**	**Built**	**Azusa | dwp**							
D32	Independent Audits of the development must be submitted to the Planning Secretary and must be carried out in accordance with: (a) the Independent Audit Program submitted to the Planning Secretary and the Certifier under condition D30 of this consent; and (b) the requirements for an Independent Audit Methodology and Independent Audit Report in the Independent Audit Post Approval Requirements (Department 2018).										Noted
	[i] Independent audits must be submitted to the Planning Secretary and the Certifier	**Nihon**	**Built**	**Azusa | dwp**							
D33	Requirements (Department 2018), the Applicant must: (a) review and respond to each Independent Audit Report prepared under condition D30 of this consent; (b) submit the response to the Planning Secretary and the Certifier; and (c) make each Independent Audit Report and response to it publicly available 60 days after submission to the Planning Secretary and notify the Planning Secretary and the Certifier in writing at least seven days before this is done.										Noted
	[i] Response required to each independent audit - Planning Secretary and the Certifier notified	**Nihon**	**Built**	**Azusa | dwp**							
D34	Notwithstanding the requirements of the Independent Audit Post Approval Requirements (Department 2018), the Planning Secretary may approve a request for ongoing annual operational audits to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that an audit has demonstrated operational compliance.	Note	Note								Noted

NB Rows for post PC hidden above

Urgently required - holding up CC\OC

Closed out & complete

In progress or required for future CC stage

Note with no further actions required

Appendix H - Monthly Waste Recovery Reports

CENTRAL WASTE STATION

BUILT SERVICES

NIHON UNIVERSITY

RESOURCE RECOVERY REPORT

JULY 2020

Towards a Sustainable Future

1800 180 180
centralwaste.com.au
info@centralwaste.com.au
8 Styles Street
Kurri Kurri NSW 2327

BN: 44 604 989 433 |Environmental Protection Licence Number: 13013

AS/NZS 4801 - OHS MANAGEMENT
ISO 9001 - QUALITY MANAGEMENT
ISO 14001 - ENVIRONMENTAL MANAGEMENT

1. OVERVIEW

C&D materials for this month which were placed into bins typically included a mixture of mainly wood/timber, cardboard, etc. processed at our Resource Recovery Facility, offering a very high level of recoverability.

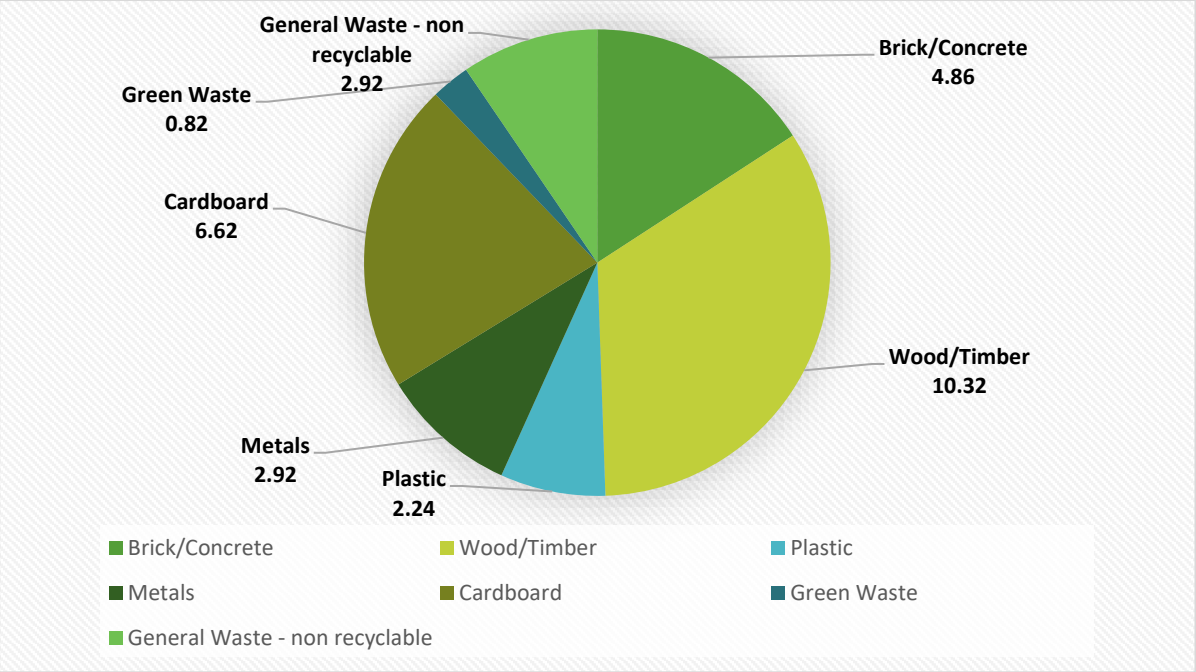
Materials were free of contamination by food or other organic matter which assists in recovery rates, however, non-recoverable/difficult material such as carpets, some plastics, etc. were found and disposed of as per local regulations.

2. CWS - RECOVERABLE MATERIALS MONTHLY BREAKDOWN

Breakdown of resources recovered, transported and processed at Central Waste Station's Resource Recovery Facility.

MONTHLY BREAKDOWN	
Total Amount Received (Tonnes)	30.70
Total Recovered (Tonnes)	27.78
Total Recovery Percentage	90.49%

RESOURCE TYPE	TONNES RECOVERED	PERCENTAGE
WOOD/TIMBER	10.32	33.62%
METALS	2.92	9.51%
PLASTICS	2.24	7.30%
CARDBOARD	6.62	21.56%
GENERAL WASTE (NON RECYCLABLE)	2.92	9.51%



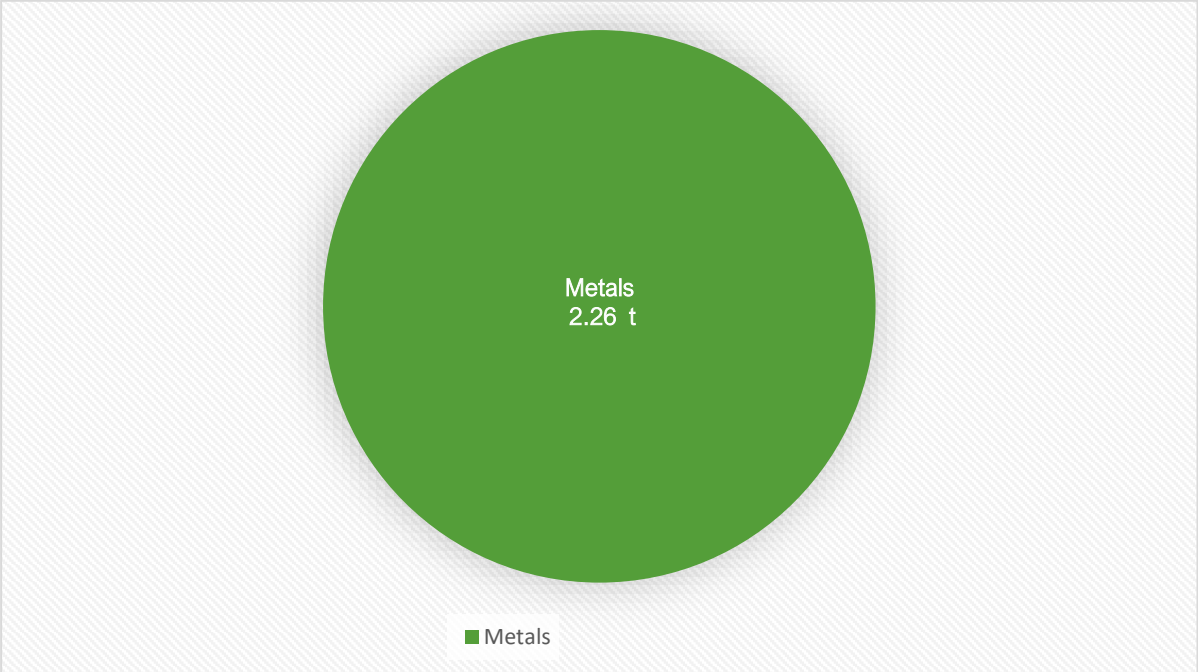
3. OTHER FACILITIES - RECOVERABLE MATERIALS MONTHLY BREAKDOWN

Breakdown of resources recovered, transported and processed at local material specific recycling facilities to achieve full recyclability. These include:

- Metals – Sell & Parker

MONTHLY BREAKDOWN	
Total Amount Received (Tonnes)	2.26
Total Recovered (Tonnes)	2.26
Total Recovery Percentage	100%

METALS	2.26



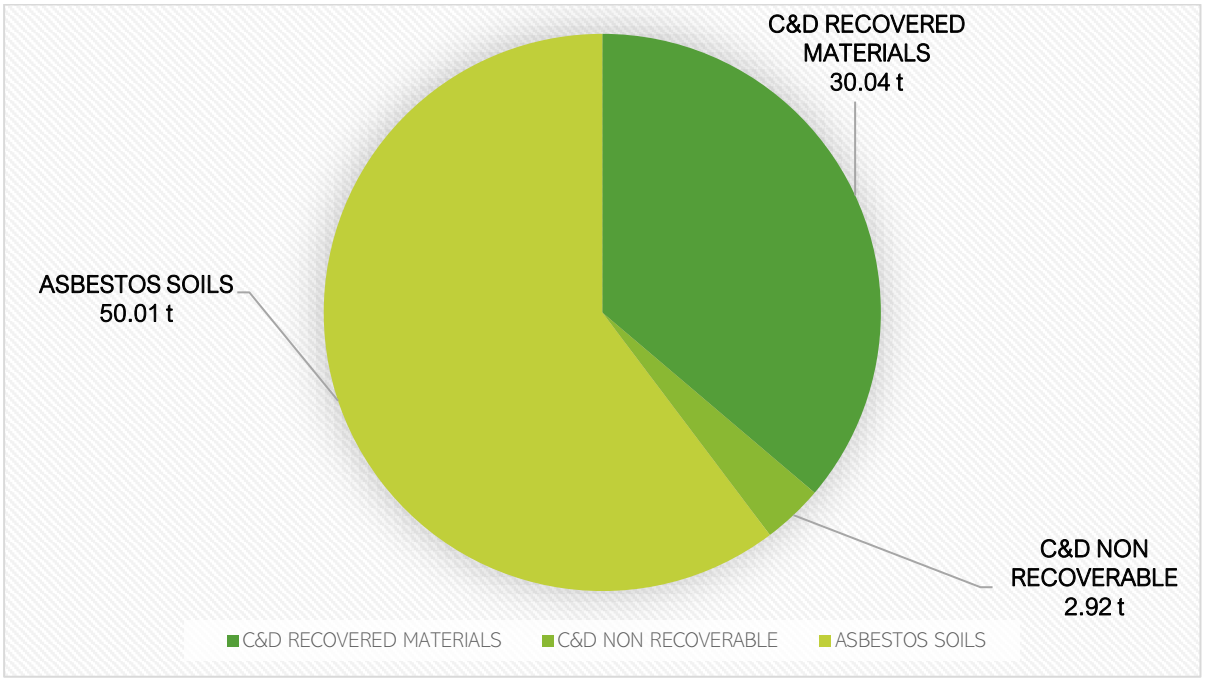
4. RECOVERY SUMMARY

MONTHLY BREAKDOWN	CWS	OTHER FACILITIES (material specific)	TOTAL
Total Amount Received (Tonnes)	30.70	2.26	32.96
Total Recovered (Tonnes)	27.78	2.26	30.04
C&D Non-Recoverable Percentage	9.51%	0%	8.86%
Total Recovery Percentage	90.49%	100%	91.14%

5. TOTAL EXPORTED MATERIALS MONTHLY BREAKDOWN (INCLUDING NON-RECYCLABLES)

A summary of all materials exported from site by Built throughout the month of July, including special/difficult waste such as asbestos, has been including in the following table and graphic.

RESOURCE TYPE	TONNES
C&D RECOVERED MATERIALS	30.04
C&D NON RECOVERABLE	2.92
ASBESTOS SOILS	50.1



CENTRAL WASTE STATION

DRUMDERG SERVICES

NIHON UNIVERSITY

RESOURCE RECOVERY REPORT

JULY 2020

Towards a Sustainable Future

1800 180 180
centralwaste.com.au
info@centralwaste.com.au
8 Styles Street
Kurri Kurri NSW 2327

BN: 44 604 989 433 |Environmental Protection Licence Number: 13013

AS/NZS 4801 - OHS MANAGEMENT
ISO 9001 - QUALITY MANAGEMENT
ISO 14001 - ENVIRONMENTAL MANAGEMENT

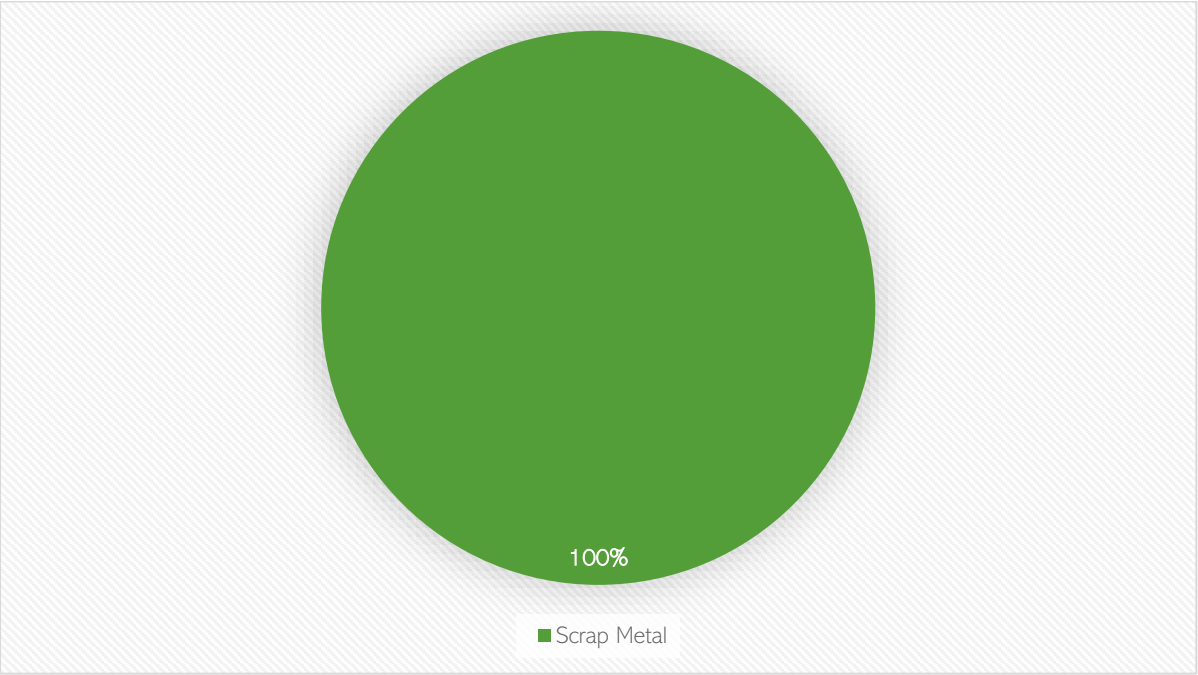
OVERVIEW

Bins collected contained scrap metal which offers a very high level of recoverability. Waste was free of contamination by food or other organic matter which assists in recovery rates.

1. MONTHLY BREAKDOWN

MONTHLY BREAKDOWN	
Total Amount Received (Tonnes)	2.66
Total Recovered (Tonnes)	2.66
Total Recovery Percentage	100%

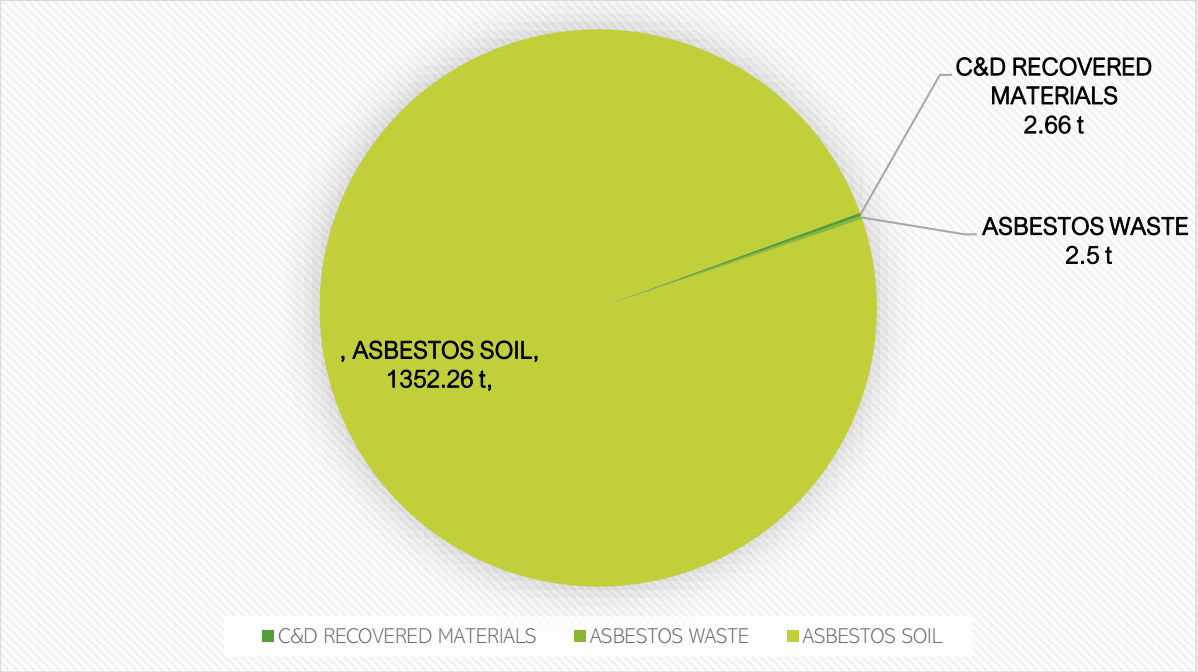
RESOURCE TYPE	TONNES RECOVERED	PERCENTAGE
SCRAP METAL	2.66	100%



2. TOTAL EXPORTED MATERIALS MONTHLY BREAKDOWN (INCLUDING NON-RECYCLABLES)

A summary of all materials exported from site by Drumderg throughout the month of July, including special/difficult waste such as asbestos, has been including in the following table and graphic.

RESOURCE TYPE	TONNES
C&D RECOVERED MATERIALS	2.66
ASBESTOS WASTE	2.50
ASBESTOS SOILS	1352.26



3 . RECOVERY SUMMARY

MONTHLY BREAKDOWN	CWS	OTHER FACILITIES (material specific)	TOTAL
Total Amount Received (Tonnes)	0.00	2.66	2.66
Total Recovered (Tonnes)	0.00	2.66	2.66
C&D Non-Recoverable Percentage	0%	0%	0%
Total Recovery Percentage	0%	100%	100%

Appendix I – Workflow Status

Workflows Status

Project Name: Nihon University

Date Generated: 31 July 2020

Applied filters: Status:Completed, In Progress

Schedule Status



Name	Number	Status	Original due date	Expected/Actual end date	Schedule Variance (days)*
Workflow Test	WF-000002	Completed	2-Jun-20	27-May-20	4
Test Consultant Workflow	WF-000003	Completed	1-Jun-20	28-May-20	2
Hydraulic Services Shop Drawings	WF-000004	Completed	10-Jun-20	23-Jun-20	-9
Hydraulic Services Shop Drawings	WF-000005	Completed	19-Jun-20	23-Jun-20	-2
Formwork Shop Drawing Workflow	WF-000006	Completed	26-Jun-20	1-Jul-20	-3
Lift Shop Drawing Workflow 02	WF-000007	Completed	30-Jun-20	29-Jun-20	1
Formwork Shop Drawing Workflow 02	WF-000008	Completed	30-Jun-20	19-Jun-20	7

Name	Number	Status	Original due date	Expected/Actual end date	Schedule Variance (days)*
Formwork Shop Drawing Workflow - Concrete Profile	WF-000009	Completed	8-Jul-20	29-Jun-20	7
Formwork Shop Drawing Workflow	WF-000010	Completed	9-Jul-20	2-Jul-20	5
Formwork Shop Drawing Workflow	WF-000011	Completed	9-Jul-20	1-Jul-20	6
Platform Lift Shop Drawing	WF-000012	Completed	13-Jul-20	21-Jul-20	-6
Formwork Shop Drawings - Building C	WF-000013	Completed	14-Jul-20	17-Jul-20	-3
Formwork Shop Drawings - Building A	WF-000014	Completed	20-Jul-20	20-Jul-20	0
Formwork Shop Drawings - Building A	WF-000015	Completed	20-Jul-20	10-Jul-20	6
Post Tension Shop Drawings - Building C	WF-000016	Completed	20-Jul-20	29-Jul-20	-7
Formwork Shop Drawings - Building A	WF-000017	Completed	21-Jul-20	19-Jul-20	2
Formwork Shop Drawings - Building C	WF-000018	Completed	22-Jul-20	22-Jul-20	0
Lift Shop Drawing - Building A	WF-000019	Completed	22-Jul-20	14-Jul-20	6
Lift Shop Drawing - Building C	WF-000020	Completed	22-Jul-20	23-Jul-20	-1
General Formwork Shop Drawings	WF-000021	Completed	28-Jul-20	28-Jul-20	0
Platform Lift Shop Drawing	WF-000022	In Progress	31-Jul-20	3-Aug-20	-1
Formwork Shop Drawings - Building A - Level 2 Concrete Profile Queries	WF-000023	In Progress	31-Jul-20	3-Aug-20	-1
Formwork Shop Drawings - Building C - Stair C1 (L2 to Roof)	WF-000024	In Progress	4-Aug-20	4-Aug-20	0

Name	Number	Status	Original due date	Expected/Actual end date	Schedule Variance (days)*
Formwork Shop Drawings - Building C - Stair C1 (L1 to L2)	WF-000025	In Progress	4-Aug-20	4-Aug-20	0
Formwork Shop Drawings - Building C - Stair C2 (L1 to L2)	WF-000026	In Progress	5-Aug-20	5-Aug-20	0
Formwork Shop Drawings - Building C - Stair C2 (L2 to Roof)	WF-000027	In Progress	5-Aug-20	5-Aug-20	0
Formwork Shop Drawings - Building A - Stair A2 (L1 to Roof)	WF-000028	In Progress	5-Aug-20	5-Aug-20	0
Post Tension - Building C - Level 3	WF-000030	In Progress	6-Aug-20	11-Aug-20	-3
Formwork Shop Drawings - Building C - L2 & L3 Concrete Profile and Table Layout	WF-000032	In Progress	6-Aug-20	11-Aug-20	-3
Formwork Shop Drawings [2] - Building A - Level 2 Table Layout	WF-000033	In Progress	6-Aug-20	11-Aug-20	-3
Formwork Shop Drawings - Building A - Shear Walls (SW1, SW2, SW3)	WF-000034	In Progress	7-Aug-20	11-Aug-20	-2
Siphonic Shop Drawings	WF-000035	In Progress	11-Aug-20	11-Aug-20	0

*Schedule Variance: It is the difference between the Original due date and Expected/Actual end date. (A negative Schedule Variance indicates a workflow is behind schedule. The Schedule Variance factors in only the days that are a part of the working week)