

12 March 2024

221155 CAAG

Blackett Maguire + Goldsmith  
2/22-36 Mountain St.  
Ultimo NSW 2007

Attention: Michael Potts – Building Surveyor

### Darcy Road Public School

SSD – 49073460 Condition B23 and B24 – Structural Statement

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Dear Michael,

With reference to Condition B23 and B24 of Development Consent of SSD-49073460, for Darcy Road Public School upgrade project at 98A Darcy Road Wentworthville NSW 2145, we wish to advise the following:

In compliance with condition B24 a) and b):

1. Finish floor levels of Buildings A and C are more than 500mm above the 1%AEP flood level.
2. Finish floor levels of Buildings A and C are at the probable maximum flood level (PMF), being 27.9 mAHD and 26.5 mAHD respectively.
3. All structures below the probable maximum flood level (PMF) are constructed from flood compatible building components. Measures applied to building B are addressed below:
  - i. The current FFL of Building B (27.0 mAHD) is 1.8m above the 1%AEP flood level but 0.2m lower than the PMF level at the southern end of the building.
  - ii. There are no openings into building B within the PMF flood zone.
  - iii. Structurally, it is acceptable to keep the current FFL and provide a concrete upstand structure above the PMF level (refer to attached plan DRPS-NBRS-BB-XX-DR-A-5421, revision 2) which is designed to withstand the flood loads. Building B structure will be designed to suit the flood flow and flood velocity of up to 2m/s, which is the extent expected in this zone during a PMF event.
  - iv. The concrete upstand will be located behind the façade brick wall with infill grout in the cavity as shown in the sections attached. The concrete wall will also be waterproofed and insulated.
2. In compliance with condition B23:
  - i. Primary structures have been designed with flood compatible materials able to withstand the hydrodynamic forces from moving flow and still water during any period of flood inundation and/or submerging events, as identified in the Flood Impact Assessment, revision 15, dated 1 February 2024 prepared by TTW. Also refer to items 3 iii and 3 iv above.

Please do not hesitate to contact our office for further information.

Yours faithfully,  
**TTW (NSW) PTY LTD**



**Glen Fowle**  
**Executive Director**  
**BE(Hons) CPEng NER 4065670**

\\ttwcloud2.ttw.net.au\Jobfiles\$\2022\2211\221155\Certificates\Structural\240312 Flood Wall Statement (Rev10)\Cert 301s, NSW, V10, 210518, Structural Design Certificate.docx

12 March 2024

221155 CAAD

Taylor Constructions  
 Level 16, 100 Pacific Highway  
 North Sydney NSW 2060

Attention: Katherine Barrionuevo

**Darcy Road Public School**  
**Civil Design Statement – SSD 49073460 Condition B24 (c & d)**

Dear Katherine,

This civil certificate has been provided to respond to Condition B24 Part (c) and (d) of Development Consent SSD-49073460 for the Darcy Road Public School upgrade project at 98A Darcy Road Wentworthville NSW 2145.

Consent Conditions Development Consent Conditions SINSW (received 8/03/2024)		
No.	Condition Description	TTW Response
B24	Prior to the commencement of construction of the relevant stage, the Applicant must provide evidence from a suitably qualified chartered professional engineer to the Certifier and Planning Secretary confirming that:	
c	any new buildings have been designed to ensure shelter in place of vulnerable persons is safe and in locations above the PMF level as outlined in the Flood Impact Assessment, revision 15, dated 1 February 2024 and prepared by TTW; and	new buildings have been designed to ensure shelter in place of vulnerable persons and are safe and in locations above the PMF level, or protected from the PMF flood, as outlined in the Flood Impact Assessment, revision 15, dated 1 February 2024 and prepared by TTW; and
d	any new building has been designed, so that the part of the building that will be used for egress after a flood event will be safe to be used for this purpose after the flood waters recede from the 1% AEP through to PMF flood events described in the Flood Impact Assessment, revision 15, dated 1 February 2024 and prepared by TTW.	new buildings have been designed so that the part of the building that will be used for egress after a flood event will be safe to be used for this purpose after the flood waters recede from the 1% AEP through to PMF flood events, as described in the Flood Impact Assessment, revision 15, dated 1 February 2024 and prepared by TTW.

Yours faithfully,  
**TTW (NSW) PTY LTD**



**TIM MOORE**  
**NSW Civil Manager**  
MEng (Hons) MIEAust CPEng NER (4135658)

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### Registrations

#### APEC Engineer Register (APEC)

Registration Date 22-02-2018  
Areas of Practice Structural Engineering

#### National Engineering Register (NER)

Registration Date 30-10-2015  
Occupational Category Professional Engineer  
Areas of Practice Structural

#### International Professional Engineers Agreement (IPEA)

Registration Date 22-02-2018  
Areas of Practice Structural Engineering

### Contact Details

ST LEONARDS, NSW 2065  
AUSTRALIA

### EA Membership

Chartered Status Chartered Professional Engineer  
Membership Grade Member  
Chartered Areas of Practice Structural Engineering



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### Registrations

#### National Engineering Register (NER)

Registration Date 30-10-2015  
Occupational Category Professional Engineer  
Areas of Practice Civil

### Contact Details

Manly, NSW 2095  
AUSTRALIA

### EA Membership

Chartered Status Chartered Professional Engineer  
Membership Grade Member  
Chartered Areas of Practice Civil Engineering



# Glen Fowlie

## Director

BE(Hons) CPEng NER RPEQ

glen.fowlie@ttw.com.au

## Experience

2019-Current  
Director, TTW

2017-2019  
Technical Director, TTW

2014-2016  
Associate Director, TTW

2012-2013  
Associate, TTW

2011-2012  
Structural Engineer, TTW

2009-2010  
Line Manager, Balfour Beatty & Carillion,  
East London Overground

2007-2008  
Structural Engineer.  
Waterman Structures Ltd, London

2006  
Structural Engineer.  
Bogdonov Pao Group Ltd, Canada

2004-2005  
Structural Engineer.  
Sinclair Knight Merz Ltd, Auckland

Glen Fowlie has an entrepreneurial spirit that he takes into each project he joins. With 12 years of engineering experience in New Zealand and Australia, Glen plays a critical leadership role at TTW, as Director. His expertise has been sought after by market-leading architects and buildings firms.

He has taken a lead role on many significant and iconic projects for TTW such as the Westmead Millennium Institute, which was awarded Architecture Australia's most prestigious awards – the Sulman Medal. Glen has recently completed the complex Wynyard Walk project connecting Wynyard Station to Barangaroo. This major transportation project involved building under existing high-rise commercial and heritage listed buildings in a highly constrained environment.

Glen's pragmatic approach has seen him develop his career across various project sectors including healthcare, transportation, commercial, public buildings and education.

### Accommodation / Hotel

Little National Hotel, Sydney  
Sonaisali Villas Fiji  
Veriu Hotel, Sydney

### Commercial + Retail

Ausgrid Chatswood Office Building,  
Chatswood  
Birkenhead Point Shopping Centre,  
Drummoyne  
Eastgate Leeds, United Kingdom  
Roden Cutler House Refurbishment,  
Sydney  
Manly Wharf Redevelopment, Manly

### Education

Murwillumbah Education Campus  
Crofton House School, Vancouver, Canada  
Hillsong Melbourne East Church  
Sydney University Capital Works, Sydney  
Sydney University FEIT Master Plan,  
Sydney

### Healthcare + Research

Wagga Wagga Hospital Redevelopment,  
Stage 3  
Byron Shire Central Hospital, Byron Bay  
Coffs Harbour Hospital Expansion  
Concord Hospital Development  
New Maitland Hospital  
St Jude Medical Centre – Parking Structure,  
Los Angeles, United States  
St Vincent's Private Hospital, Darlinghurst  
Sutherland Hospital  
Westmead Hospital - Temporary Works  
Westmead Millennium Institute

### Aged Care

Hawkins Masonic Retirement Village  
Aveo RACF, Bella Vista  
Aveo, Bella Vista  
Aveo, Mosman  
RFBI Hawkins Village  
Sir Moses Montefiore Jewish Home,  
Randwick

### Government + Public

Jindabyne Community Library and  
Innovation Hub  
Sutherland Entertainment Centre,  
Sutherland  
Queens Square Law Courts, Sydney  
Royal New Zealand Navy Dive Training &  
Support Centre, Auckland, New Zealand  
Surry Hills Police Station, Surry Hills

### Sport + Leisure

National Snowsports Training Centre  
(NSTC), Jindabyne  
Batemans Bay Aquatic Centre  
Gunyama Park Aquatic and Recreation  
Centre, Green Square  
Sleeman Centre Water Ramps, OWIA,  
Brisbane  
Stromo Leisure Centre Temporary Works  
Telstra Clear Pacific Events Centre,  
Auckland

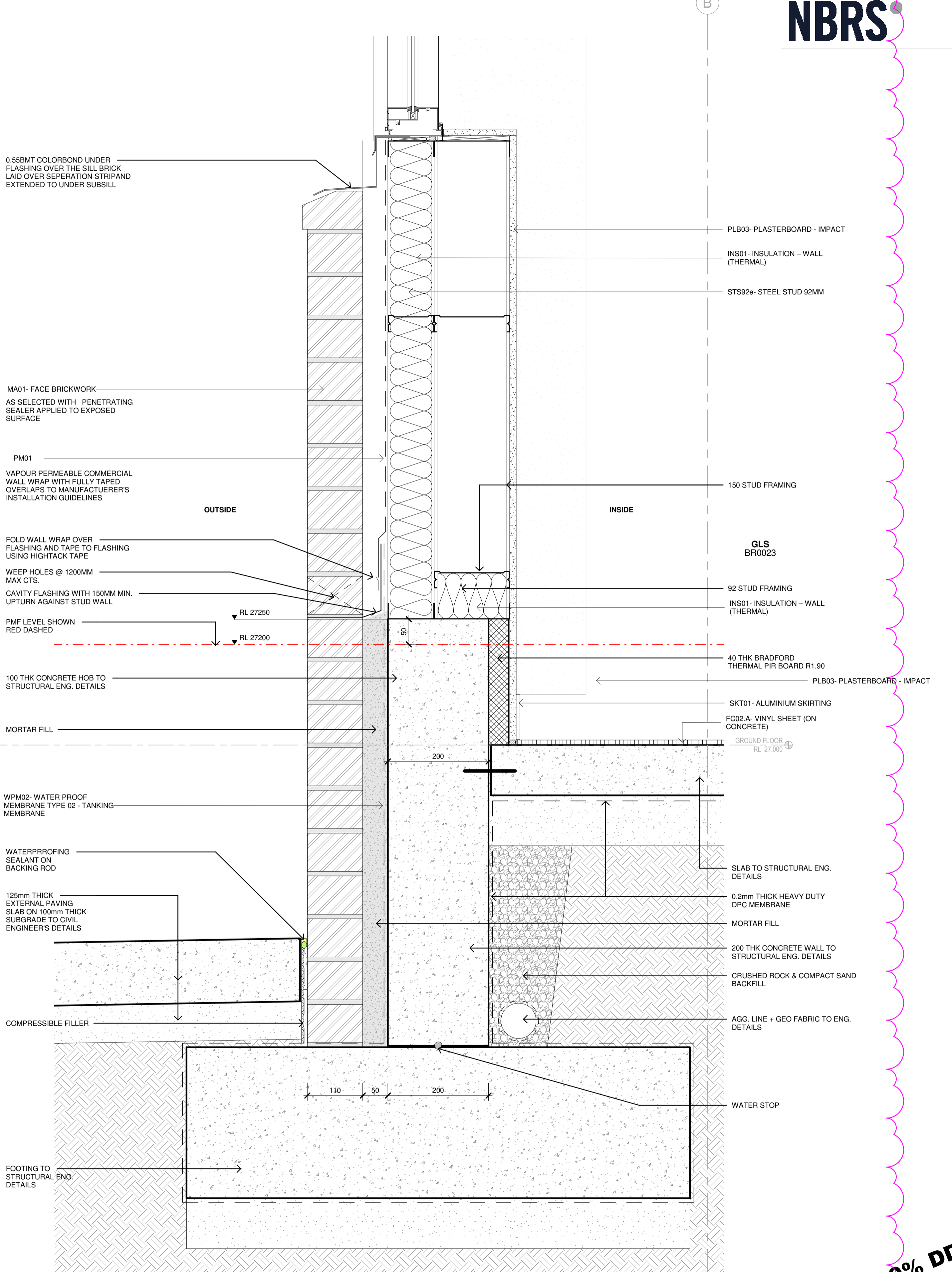
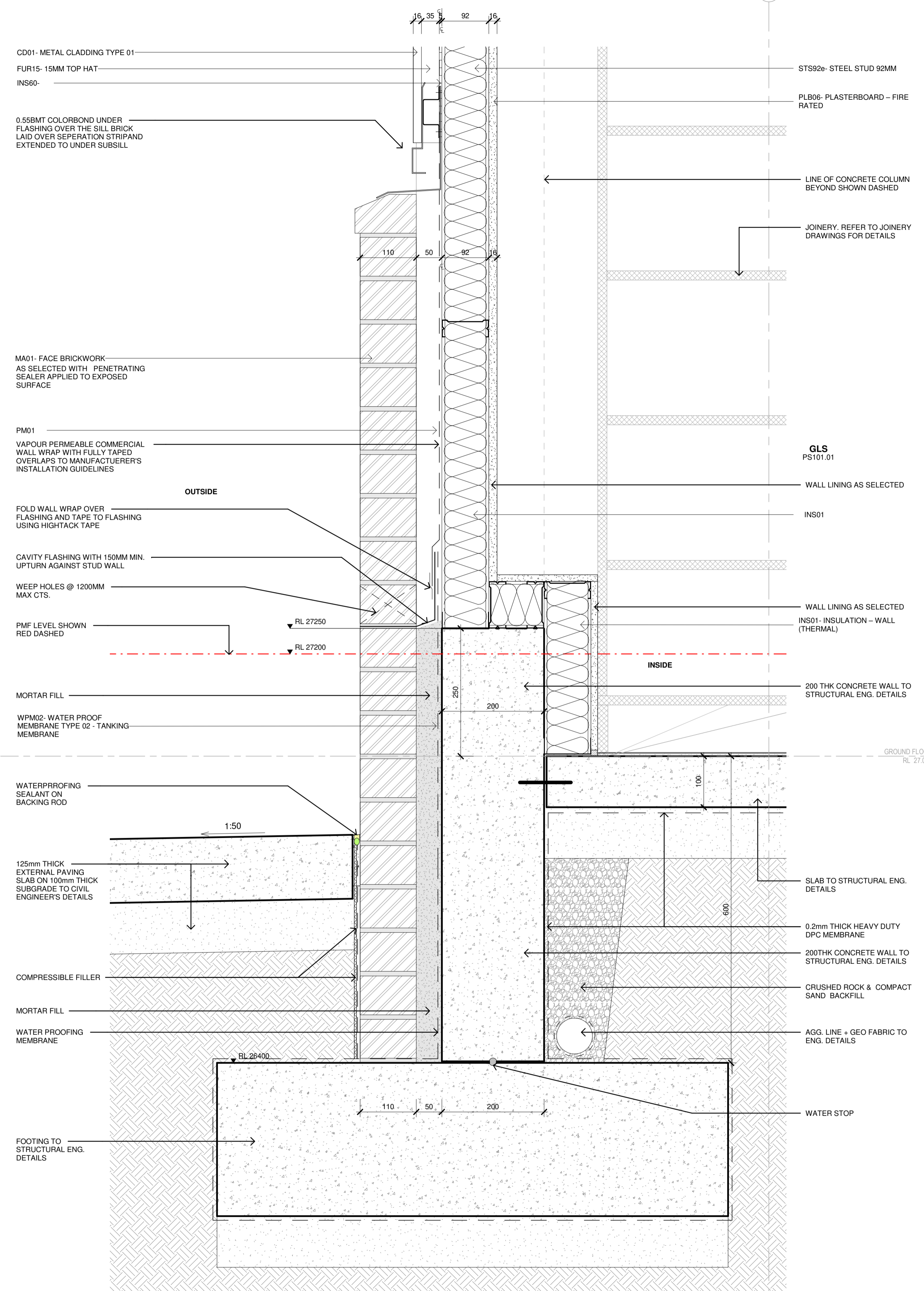
### Transport

Western Sydney Airport (WSA) Metro -  
Tender  
Crows Nest Metro Station – Temporary  
Works  
Sydney Metro West - Tender  
Sydney Metro City & Southwest - Pitt Street  
Integrated Station Development  
M4-M5 Link Project, Temporary Works  
Melbourne Metro Tender  
Sydney Metro Victoria Cross Station  
Review  
Wynyard Walk, Sydney  
East London Overground Line, United  
Kingdom

### Industrial

Dicker Data Warehouse, Kurnell  
Energy Australia Switching Station, Surry  
Hills





1 TYP. SLAB EDGE DETAIL ALONG S FACADE GRID 17  
1:5

2 TYP. SLAB EDGE DETAIL ALONG S-W FACADE GRID B  
1:5

90% DD

Issue No.	Date	Description	Chkd
1	07/12/2023	Updated Detail & Schedule	
2	xx/01/2024	Revision 12	

Changes to this Revision

**ELECTRICAL**  
PRO ELECTRICAL  
Steve Ward, Grant Cornwell  
7/276 New Line Road, Dural NSW Australia 2158  
+61 2 96513455  
grant.c@pronetwork.com.au

**MECHANICAL**  
ICR Air Conditioning  
Amir Tambrchi  
Unit 12, 175 Briens Road NORTHMEAD NSW 2152  
+61 2 96901788  
amir@icrat.com.au

**HYDRAULIC**  
Hitech Plumbing + Inline Hydraulic  
Ben Bradley, Paul McDonald  
Unit 42 & 43, 45-47 Green St, Banksmeadow, NSW 2019  
PM: 0473 392 909  
pau@inlinets.com.au

**LANDSCAPE ARCHITECT**  
URBIS  
Yen Yu  
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+61 2 9237637  
yuu@urbis.com.au

**STRUCTURE/CIVIL**  
TTW  
Hung Nguyen  
Level 6, 73 Miller Street, NSW 2060  
+61 2 9439 7288  
hung.nguyen@ttw.com.au

**ARCHITECTURE**  
NBRS  
John Vasco  
4 Glen Street, Milsions Point NSW Australia 2061  
+61 2 9922 2344  
john.vasco@nhrs.com.au

**BUILDER**  
TAYLOR CONSTRUCTION GROUP  
Katherine Sarrionuevo  
Level 16, 100 Pacific Highway, NSW 2060  
+61 2 87369000  
katherine@taylorau.com.au

Project	Drawing Title
Darcy Road Public School	WALL SECTIONS - BLOCK B 02

at  
98A Darcy Rd, Wentworthville NSW 2145

for  
Taylor Construction + SINSW

**NBRS**  
+61 2 9922 2344  
nhrs.com.au  
Nominated Architect:  
Andrew Duffin NSW 5602  
NBRS & Partners Pty Ltd VIC 51197  
ABN 16 002 247 565

Date	Scale	Drawing Reference	Revision
17/01/2024 1:32:22 PM	1:5 @ A1	DRPS-NBRS-BB-XX-DR-A-5421	2

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