

5 September 2021

181863 SAAA

Carmichael Tompkins Property Group
Suite 14.04
Aurora Place
88 Phillip Street
Sydney NSW 2000

Attention: Brodie McHutchison

Sydney Catholic Schools, Marist North Shore

Engagement with Sydney Metro

Dear Brodie,

Further to our appointment to engage with Sydney Metro regarding the State Significant Development Application – SSD-1047 and Request for additional information in Sydney Metro letter dated 4 March 2021, we take this opportunity to provide a summary of our dialogue to date, and attach relevant correspondence for your records.

- TTW emailed Sydney Metro Corridor Protection on 14 June 2021, providing drawings SK210614.MB01 Footing Plan and SK210614.MB02 Building Section, showing the relationship between the proposed development and footings. The overlay of Rail Tunnel alignment was determined using TfNSW Drg No SMCSWTSE-JAB-TPW-AL-DRG-505122 [00].
- Response received from Sydney Metro Corridor Protection on 5 July 2021 requesting further information in relation to the shoring and provision of a Safe Work Method Statement.
- TTW emailed Sydney Metro Corridor Protection on 3 August 2021, providing updated Footing Plan (SK210803.MB01) and Building Section (SK210803.MB02), along with Safe Work Method Statement (SWMS).
- Response received from Sydney Metro Corridor Protection on 3 August 2021 requesting additional information to be provided in our SWMS.
- TTW emailed Sydney Metro Corridor Protection on 17 August 2021, providing updated SWMS.
- Response received from Sydney Metro Corridor Protection on 3 August 2021 confirming this meets their requirements for final review.
- CTPG emailed Sydney Metro Corridor Protection on 2 September 2021 requesting status update.
- Email from Sydney Metro Corridor Protection to CTPG on 3 September 2021 confirming that Sydney Metro do not require any further information at this stage & have issued their response letter to DPIE.

We understand that the final email from Sydney Metro Corridor Protection provides confirmation that they are satisfied with the information provided to date in order to allow conditional close out of their request for additional information in relation to the above development.

The conditions will likely require detailed design documentation to be provided once the design of the buildings are further developed with detailed footing and shoring information, which we understand will be carried out by others. It should also be noted that our email of 14 June 2021 sets out the basis of the overlay being TfNSW Drg No SMCSWTSE-JAB-TPW-AL-DRG-505122 [00] and this will need to be verified by a Registered Surveyor. A review of the deposited plan highlighted a significant discrepancy between the plan and the as-built location of the tunnel. The as-built drawing was therefore used as the basis of our assessment and overlay, being the most up to date information provided by Sydney Metro.

Should you require anything further please contact the undersigned.

Yours faithfully,
TTW (NSW) PTY LTD



MICHAEL BARRETT
Technical Director

P:\2018\1818\181863\Letters\210905 Letter regarding Sydney Metro correspondence_mb.docx

4 March 2021

Rita Hatem
The Department of Planning, Industry and Environment
Via Email: Rita.Hatem@planning.nsw.gov.au

Dear Madam,

**State Environmental Planning Policy (Infrastructure) 2007
State Significant Development Application – SSD-10473
270 Miller Street, North Sydney
Request for additional information**

Thank you for your email dated 19 February 2021 inviting Sydney Metro to comment on State Significant Development Application SSD-10473 (SSD) submitted by Ethos Urban (Applicant) in accordance with Clause 86 of the *State Environmental Planning Policy (Infrastructure) 2007* (ISEPP).

Transport for NSW (TfNSW) has delegated its rail authority functions in relation to the Sydney Metro - City & Southwest rail corridor to Sydney Metro. Therefore, Sydney Metro is the relevant rail authority for the insert Sydney Metro - City & Southwest rail corridor for the purpose of the ISEPP.

As this is a SSD application, the provisions of Clause 86 of the ISEPP do not apply.

Section 4.13(2A) of the *Environmental Planning and Assessment Act 1979* excludes concurrence or consultation requirements from applying to development applications for SSD, unless an environmental planning instrument requires concurrence or consultation to SSD. As clause 86 of the ISEPP does not require concurrence to be provided in the context of a development application for SSD, concurrence is not required for the DA.

Notwithstanding this, in order to ensure the appropriate management and mitigation of the proposed development's impacts on the Sydney Metro - City & Southwest rail corridor, Sydney Metro has reviewed the SSD documents that were uploaded onto the NSW Planning Portal on 23 February 2021, including having regard to the matters outlined in the ISEPP.

Following this review, Sydney Metro advises that it is not in a position to make a decision until the additional information outlined below is provided for Sydney Metro's further review:

- a) The final design of pile foundation should be provided in order to confirm the risk levels on Sydney Metro infrastructure.

(together, Additional Information).

The Department of Planning, Industry and Environment (DPIE) is requested to forward this request for the Additional Information to the Applicant and Sydney Metro recommends that the Applicant consult with Sydney Metro before submitting the Additional Information to

DPIE.

Sydney Metro requests that the Additional Information be forwarded to SydneyMetroCorridorProtection@transport.nsw.gov.au to enable Sydney Metro to undertake the required internal review as quickly as possible and within the required statutory timeframe.

Subject to the outcome of Sydney Metro's review of the Additional Information, further additional information may be required before Sydney Metro can determine whether the proposal will have any impacts on the Sydney Metro - City & Southwest rail corridor.

Sydney Metro thanks DPIE for its assistance.

Please contact Peter Bourke, Senior Manager Corridor Protection or Lauren Manias on sydneymetrocorridorprotection@transport.nsw.gov.au should you have any further enquiries on this matter.

Yours sincerely



Stephen Scott

Deputy Executive Director

Northwest Operations

270 Miller Street, North Sydney (SSD-10473)

Michael Barrett

From: Michael Barrett
Sent: Monday, 14 June 2021 10:16 PM
To: Sydney Metro Corridor Protection
Cc: Brodie McHutchison; Steven Lam; Lise Morgan; Arun O'Sullivan
Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)
Attachments: SK210614.MB01 Footing Plan.pdf; SK210614.MB02 Building Section.pdf

Hi Jennifer,

As Structural Engineer for this project, please find attached our drawings SK210614.MB01 Footing Plan and SK210614.MB02 Building Section in response to the RFI in your email dated 12.5.21 to WMK Architecture below.

The Footing Plan was requested in Response to Submissions letter dated 29.3.21 (SSD-10473) and Metro letter dated 4 March 2021, specifically: *a) The final design of pile foundation should be provided in order to confirm the risk levels on Sydney Metro infrastructure.* The footing design was provided in our Structural Engineering SSDA Report however we have now extracted onto a separate plan SK210614.MB01 for clarity, and incorporated the overlay of Rail Tunnel alignment using TfNSW Drg No SMCSWTSE-JAB-TPW-AL-DRG-505122 [00] as provided in your email, and developed the first and second reserves in accordance with Sydney Metro Underground Protection Guidelines.

We have also prepared a ground section SK210526.03 showing the relationship between Piled Footings and tunnel reserve, where our strategy is to bear the building footings on the rock and remain outside the second reserve. Our interpretation of Sydney Metro Underground Protection Guidelines – Section 5.1 is that the development lies outside the protection reserves, therefore we are not required to develop any supplemental information beyond the plans and sections provided.

I trust that this meets with your requirements.

Kind regards,
Mike

From: Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Sent: Wednesday, 12 May 2021 11:57 AM
To: Steven Lam <SLam@wmkarchitecture.com>; Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Cc: Peter Gerard Bourke <Peter.Bourke@transport.nsw.gov.au>
Subject: RE: Construction enquiry - Marist Catholic College North Sydney

Hi Steven,

Following my discussion with the Sydney Metro technical team, please see RFI clarification below:

- It is requested that the final design of pile foundation should be provided in order to confirm the risk levels on Sydney Metro infrastructure.

The Applicant should refer to the information request noted in this email rather than the Sydney Metro extract noted in the DPIE letter (as specified in your email correspondence 6 May 2021). The re-attached Sydney Metro drawings should be sufficient for your engineer to demonstrate the requested item.

Many thanks,

Jennifer Nguyen
Corridor Protection – Assistant Planner
Sydney Metro

T 0420 248 290

sydneymetro.info

Level 43, 680 George Street, Sydney NSW 2000
PO Box K659, Haymarket NSW 1240



From: Sydney Metro Corridor Protection
Sent: Monday, 10 May 2021 2:44 PM
To: Steven Lam <SLam@wmkarchitecture.com>; Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Cc: Peter Gerard Bourke <Peter.Bourke@transport.nsw.gov.au>
Subject: RE: Construction enquiry - Marist Catholic College North Sydney

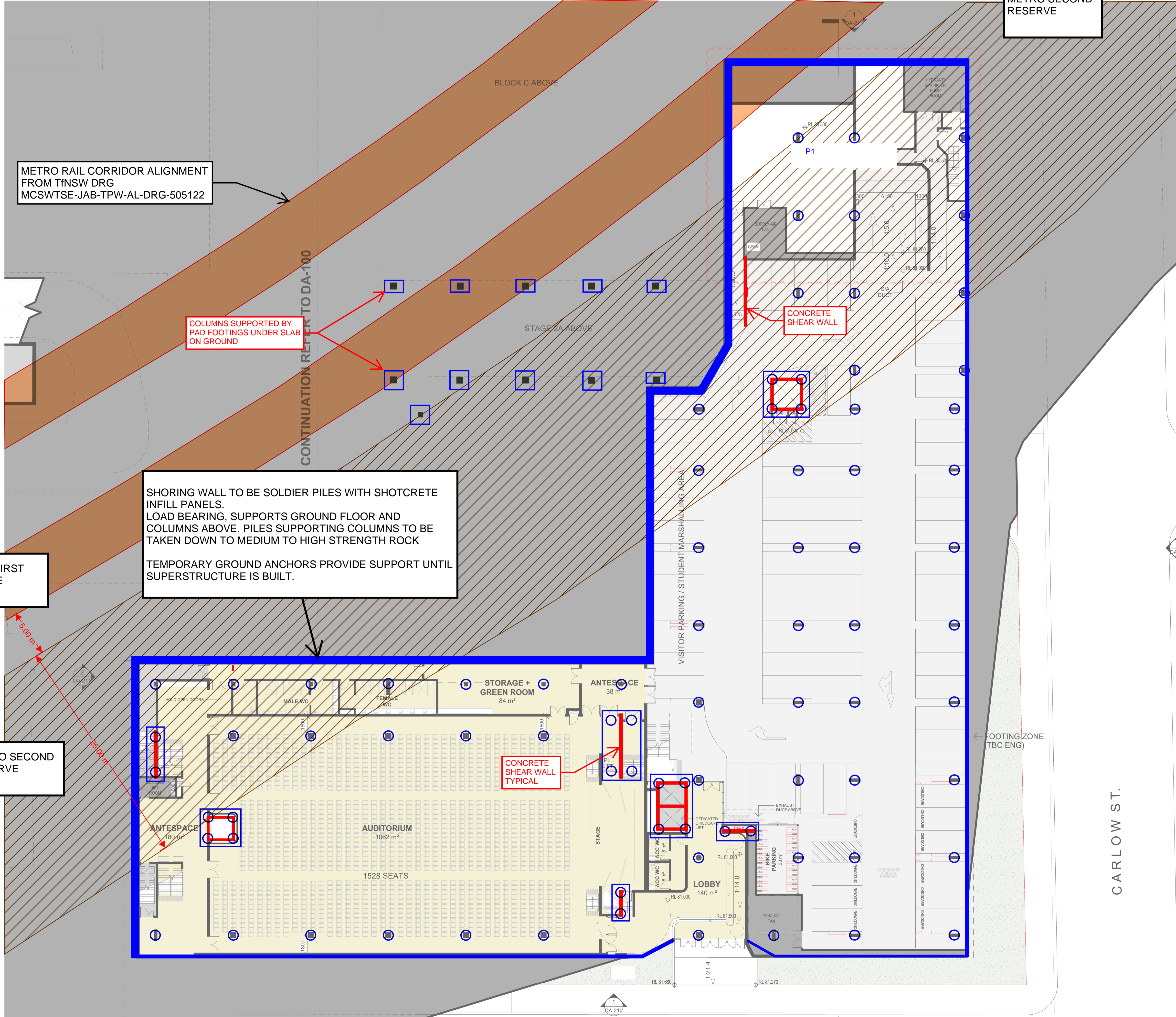
Hi Steven,

Thanks for your email.

Sydney Metro do not have the drawings in CAD. However, please find the attached issued for construction alignment drawings which should be sufficient for your RFI response.

Many thanks,

Jennifer Nguyen
Corridor Protection – Assistant Planner
Sydney Metro



METRO RAIL CORRIDOR ALIGNMENT FROM TINSW DRG MCSWTSE-JAB-TPW-AL-DRG-505122

METRO SECOND RESERVE

NOTES:
 REFER TO GEOTECHNICAL REPORT BY ALLIANCE GEOTECHNICAL DATED 23 OCTOBER 2020 REF: 9625.1-GR-1-1.
 PILED FOOTINGS TO BE 1200DIA PILES SOCKETED INTO MEDIUM TO HIGH STRENGTH SANDSTONE (CLASS III) APPROX RL 73.6m UNO.
 PAD FOOTINGS STAGE 2A TO BE 1200X1200X600dp BELOW GROUND FLOOR SLAB

COLUMNS SUPPORTED BY PAD FOOTINGS UNDER SLAB ON GROUND

SHORING WALL TO BE SOLDIER PILES WITH SHOTCRETE INFILL PANELS. LOAD BEARING, SUPPORTS GROUND FLOOR AND COLUMNS ABOVE. PILES SUPPORTING COLUMNS TO BE TAKEN DOWN TO MEDIUM TO HIGH STRENGTH ROCK
 TEMPORARY GROUND ANCHORS PROVIDE SUPPORT UNTIL SUPERSTRUCTURE IS BUILT.

METRO FIRST RESERVE

METRO SECOND RESERVE

CONCRETE SHEAR WALL TYPICAL

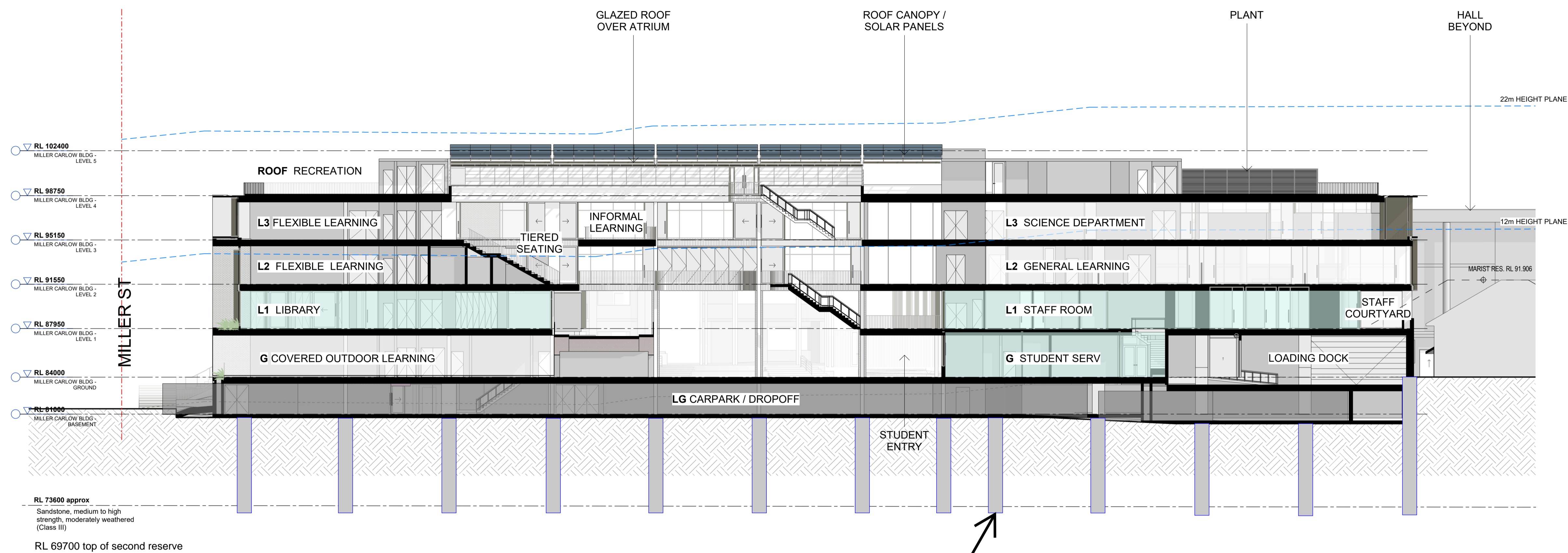
CONCRETE SHEAR WALL

Job Name : SCS Marist North Shore
 Sketch Title:
 Footing Plan

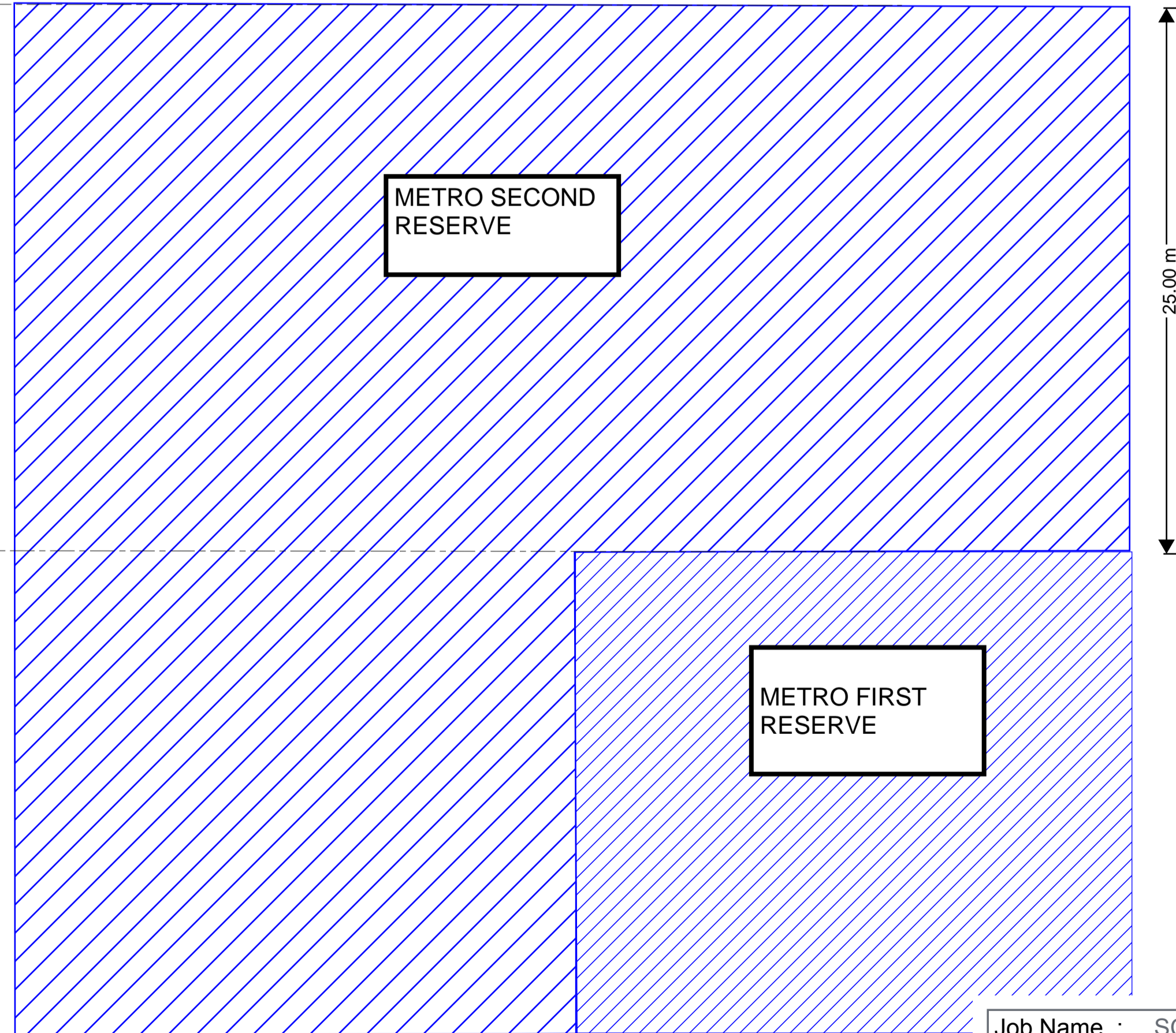
Date: 14/06/2021
 By: ...

TTW Taylor Thomson Whitting Job Number: 181863
 Sketch No. : SK210614.01

CARLOW ST.



PILES TO SOCKET INTO ROCK ABOVE SECOND RESERVE,
DO NOT EXTEND INTO SECOND RESERVE.



1 CARLOW ST SECTION

Job Name : SCS Marist North Shore
 Sketch Title:
 Building Section
 Date: 14/06/2021
 By: ...
TTW Taylor Thomson Whitting Job Number: 181863
 Sketch No. : SK210614.02

Michael Barrett

From: Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Sent: Monday, 5 July 2021 5:15 PM
To: Michael Barrett; Sydney Metro Corridor Protection
Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)

Hi Michael,

Thanks for your patience on this.

The plan drawing notes temporary anchors to be provided to support retention until superstructure built but the location/extent of these has not been shown. As such, the technical team has requested confirmation that all pile anchors will lie outside the second reserve.

Please also provide a Safety Work Method Statement (SWMS) with confirmations of pile anchors.

If you have any queries on the above, please do not hesitate to contact me via this email.

Many thanks,

Jennifer Nguyen
(Mon, Tues, Wed & Fri)
Corridor Protection – Assistant Planner
Sydney Metro

T 0420 248 290

sydneymetro.info

Level 43, 680 George Street, Sydney NSW 2000
PO Box K659, Haymarket NSW 1240



From: Michael Barrett [mailto:Michael.Barrett@ttw.com.au]
Sent: Monday, 28 June 2021 3:34 PM
To: Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)

CAUTION: This email is sent from an external source. Do not click any links or open attachments unless you recognise the sender and know the content is safe.

Hi Jennifer,

Do you have a timescale for when we are likely to receive a response from your technical team.

Kind regards,
Mike

Michael Barrett | Technical Director

+61 2 9439 7288 | +61 2 8437 7202

Level 6, No. 73 Miller Street, North Sydney NSW 2060

[We have a new Sydney office, read about it here](#)



From: Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Sent: Tuesday, 15 June 2021 10:10 AM
To: Michael Barrett <Michael.Barrett@ttw.com.au>
Cc: Brodie McHutchison <Brodie.McHutchison@ctpg.com.au>; Steven Lam <SLam@wmkarchitecture.com>; Lise Morgan <lise.morgan@syd.catholic.edu.au>; Arun O'Sullivan <arun.osullivan@syd.catholic.edu.au>
Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)

Hi Michael,

Thanks for your email. I've sent this across to my technical team for review & will get back to you once a response has been received.

Kind regards,

Jennifer Nguyen
(Mon, Tues, Wed & Fri)

Michael Barrett

From: Michael Barrett
Sent: Tuesday, 3 August 2021 10:14 AM
To: Sydney Metro Corridor Protection
Cc: Brodie McHutchison
Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)
Attachments: SK210803.MB01 Footing Plan.pdf; SK210803.MB02 Building Section.pdf; SiteRiskManagement_20210803_93391_no2.pdf

Hi Jennifer,

Thank you for your feedback.

The footing plan (SK210803.MB01) and section (SK210803.MB02) have been updated to include temporary pile anchors which, similar to the pile footing strategy, will lie outside the Metro reserves. I have also attached our SWMS noting the pile anchors as a potential hazard.

Kind regards,
Mike

From: Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Sent: Monday, 5 July 2021 5:15 PM
To: Michael Barrett <Michael.Barrett@ttw.com.au>; Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
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If you have any queries on the above, please do not hesitate to contact me via this email.

Many thanks,

Jennifer Nguyen
(Mon, Tues, Wed & Fri)
Corridor Protection – Assistant Planner
Sydney Metro

T 0420 248 290

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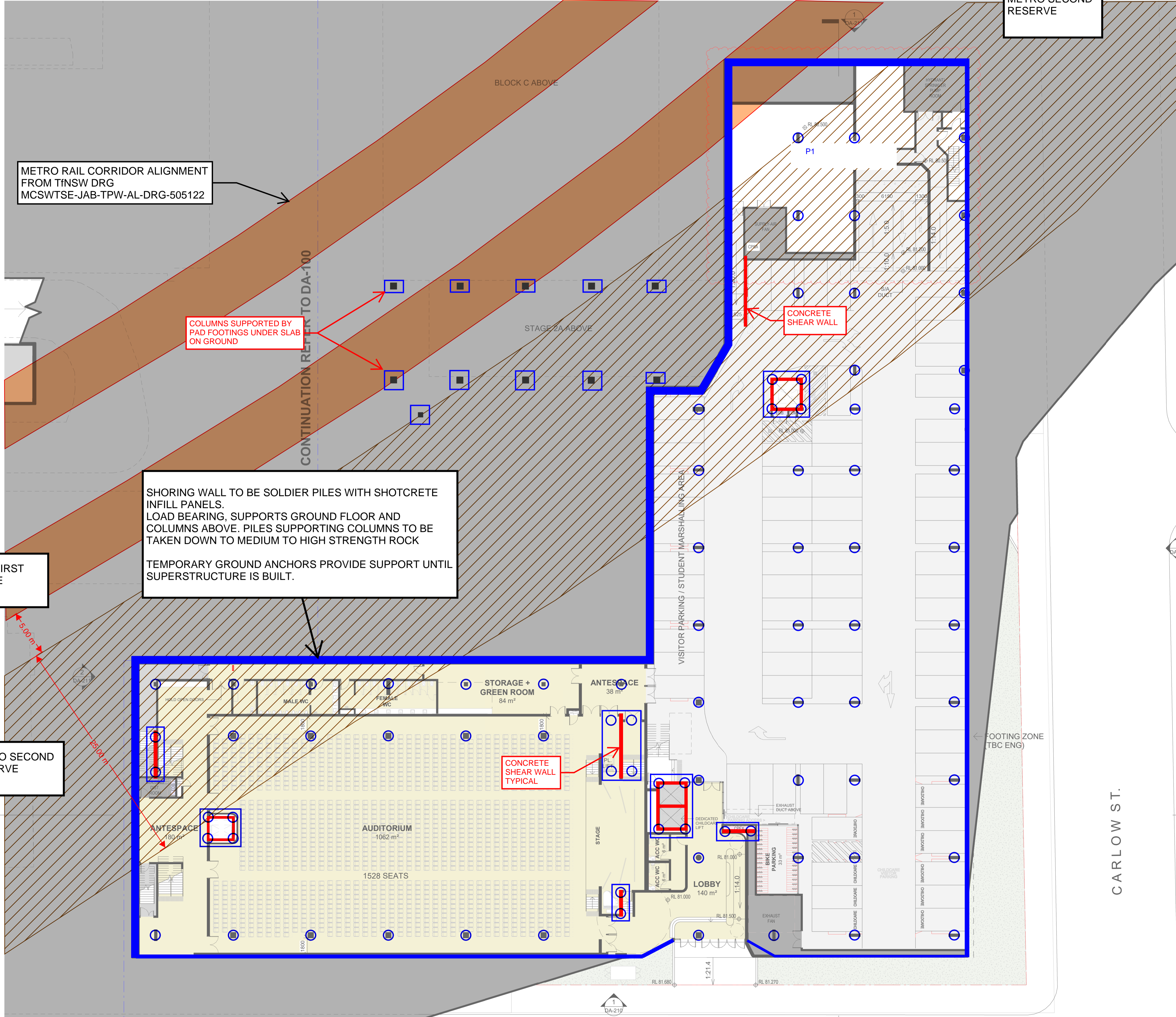
Michael Barrett | Technical Director

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NOTES:

REFER TO GEOTECHNICAL REPORT BY ALLIANCE GEOTECHNICAL DATED 23 OCTOBER 2020 REF: 9625.1-GR-1-1.

PILED FOOTINGS TO BE 1200DIA PILES SOCKETED INTO MEDIUM TO HIGH STRENGTH SANDSTONE (CLASS III) APPROX RL 73.6m UNO.

PAD FOOTINGS STAGE 2A TO BE 1200X1200x600dp BELOW GROUND FLOOR SLAB

- GROUND ANCHORS**
- The design, supply, installation and tensioning of ground anchors, bolts and nails shall be carried out in compliance with the relevant Australian Standards and the Geotechnical Report. Anchorage lengths and curing times shall be determined by the Geotechnical Engineer.
 - All anchors shall be set out by a Registered Surveyor with sections provided to ensure the anchors do not extend into the Sydney Metro Reserves, prior to commencing works.
 - Anchors, bolts and nail holes should be thoroughly cleaned and the bond grout should be allowed to cure before proof stressing.
 - Grouting shall conform to the requirements of AS 3600 and The Concrete Institute of Australia "Recommended Practice Z3 -Grouting of Prestressing Ducts 2007.
 - For proof stressing loads refer to the Geotech Report.
 - Records of all anchor extensions and test loadings are to be submitted to the Geotechnical Engineer for review.
 - All anchors, bolts and nails shall be located so as to avoid all services and pits etc. The contractor is to determine the location of all services etc prior to installation of anchors.
 - Any variation in location or inclination of anchors, nails and bolts shall be submitted to the Geotechnical Engineer and Registered Surveyor for approval.
 - For temporary and semi-permanent anchors the length of tendon protruding beyond wedge grip is not to be less than 600mm to enable monitoring.
 - For corrosion protection requirements refer to the Geotechnical Report.
 - Do not destress temporary or semi-permanent anchors until the Geotechnical Engineer's approval has been obtained.
 - For temporary and semi-permanent anchors : After destressing anchors, remove anchor head and wales. Cut strands at the face of pile and grout fill ducts. Make good piles with an approved epoxy repair mortar. Note: this is a minimum requirement. Contractor is to refer to Council requirements if anchors are to be fully

SHORING WALL TO BE SOLDIER PILES WITH SHOTCRETE INFILL PANELS. LOAD BEARING, SUPPORTS GROUND FLOOR AND COLUMNS ABOVE. PILES SUPPORTING COLUMNS TO BE TAKEN DOWN TO MEDIUM TO HIGH STRENGTH ROCK

TEMPORARY GROUND ANCHORS PROVIDE SUPPORT UNTIL SUPERSTRUCTURE IS BUILT.

METRO RAIL CORRIDOR ALIGNMENT FROM TNSW DRG MCSWTSE-JAB-TPW-AL-DRG-505122

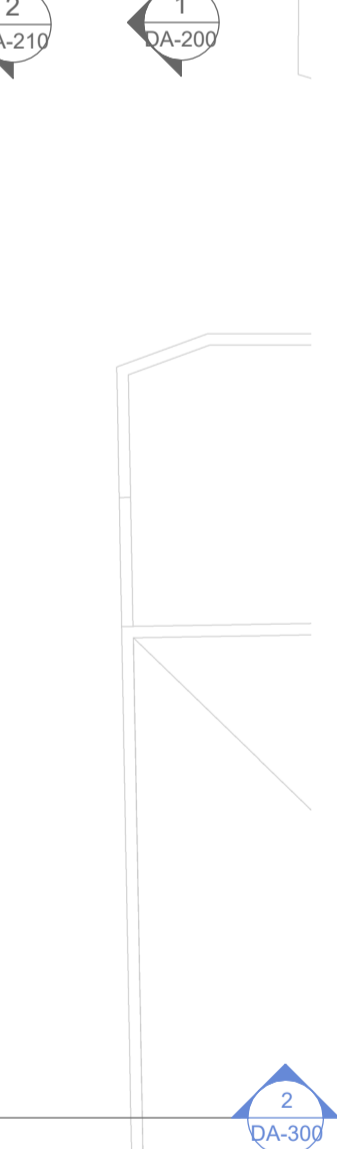
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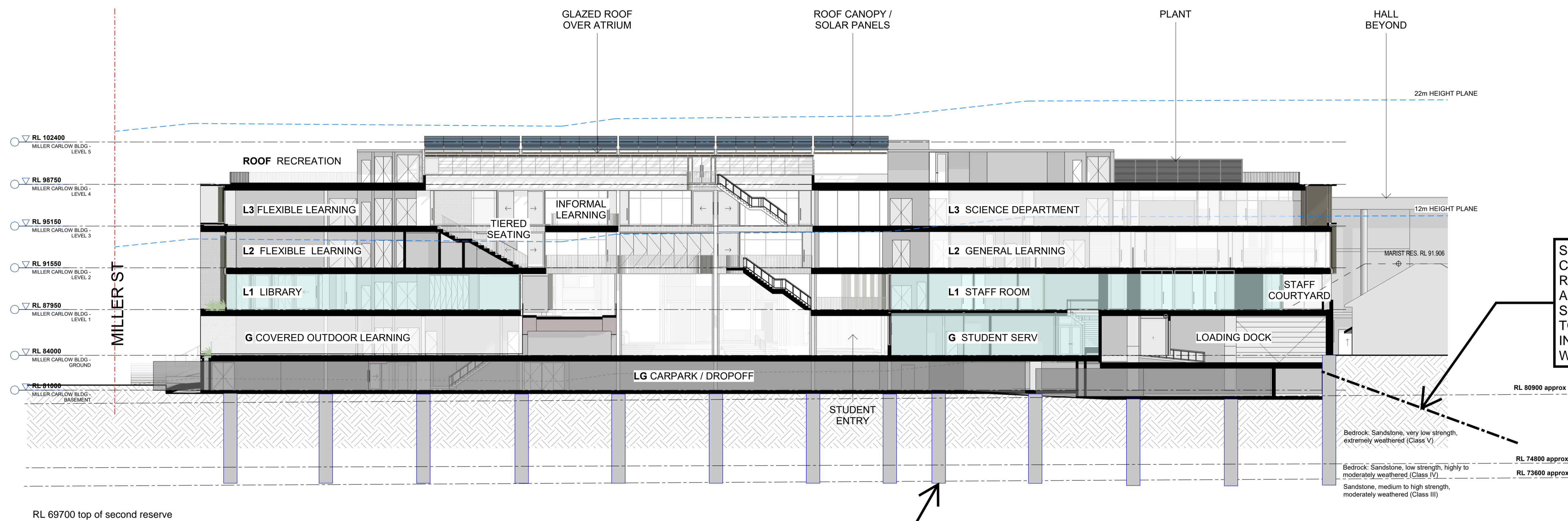
CONCRETE SHEAR WALL

CONCRETE SHEAR WALL TYPICAL

Job Name : SCS Marist North Shore
 Sketch Title: Footing Plan
 Date: 03/08/2021
 By: ...

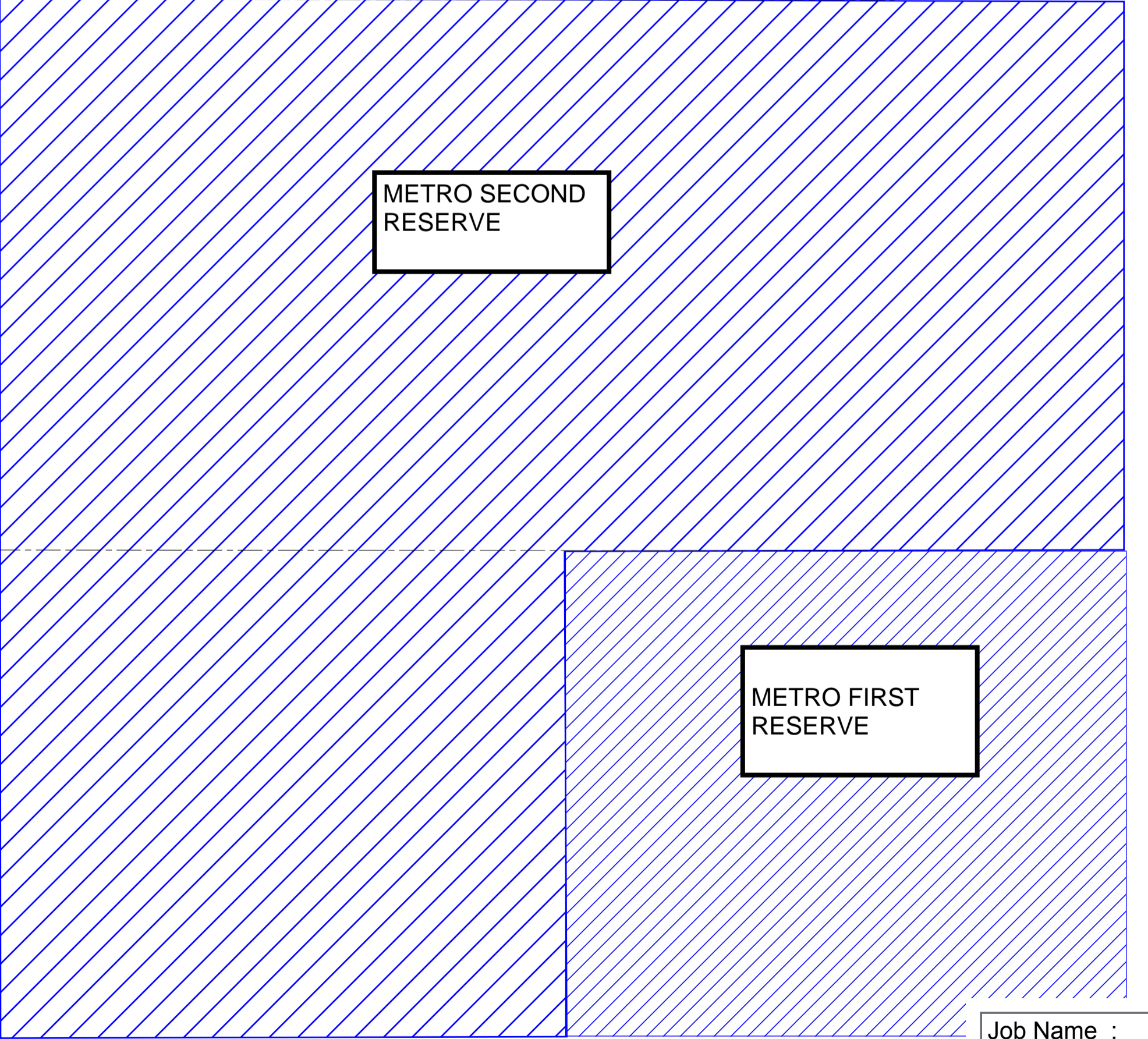
TTW Taylor Thomson Whitting Job Number: 181863
 Sketch No. : SK210803.01





SHORING ANCHORS TO SOCKET INTO CLASS V SANDSTONE ABOVE SECOND RESERVE.
 ALL ANCHORS TO BE SETOUT IN SECTION BY A REGISTERED SURVEYOR TO ENSURE THEY DO NOT EXTEND INTO SECOND RESERVE, PRIOR TO WORKS COMMENCING.

PILES TO SOCKET INTO ROCK ABOVE SECOND RESERVE, DO NOT EXTEND INTO SECOND RESERVE.



RL 69700 top of second reserve

RL 44700 top of first reserve based on tunnel alignment drawing SMCSWTSE-JAB-TPW-AL-DRG-505122

1 CARLOW ST SECTION

Job Name : SCS Marist North Shore
 Sketch Title: Building Section
 Date: 03/08/2021
 By: ...
TTW Taylor Thomson Whitting Job Number: 181863
 Sketch No. : SK210803.02

Michael Barrett

From: Michael Barrett
Sent: Tuesday, 17 August 2021 11:55 AM
To: Sydney Metro Corridor Protection
Cc: Brodie McHutchison
Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)
Attachments: SiteRiskManagement_20210817_94579_no7.pdf

Hi Jennifer,

Please find attached our updated SWMS including the requirement to notify Metro as requested. I trust that this meets with your requirements.

Kind regards,
Mike

From: Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Sent: Tuesday, 3 August 2021 11:27 AM
To: Michael Barrett <Michael.Barrett@ttw.com.au>
Cc: Brodie McHutchison <Brodie.McHutchison@ctpg.com.au>
Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)

Thanks Mike. This is now with the technical team for review.

Additionally, please include in the SWMS a requirement to immediately notify Sydney Metro if there are any indications of encroachments into Metro Tunnel Reserves, possible undermining of the existing foundations & the alike. The Sydney Metro Emergency number for the **Sydney Metro - City & Southwest: 1800 171 386**.

If any other queries, please do not hesitate to contact me.

Many thanks,

Jennifer Nguyen
(Mon, Tues, Wed & Fri)
Corridor Protection – Assistant Planner
Sydney Metro

T 0420 248 290

sydneymetro.info

Level 43, 680 George Street, Sydney NSW 2000
PO Box K659, Haymarket NSW 1240



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Sent: Tuesday, 3 August 2021 10:14 AM
To: Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
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Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)

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Hi Jennifer,

Thank you for your feedback.

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Kind regards,
Mike

Michael Barrett | Technical Director

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Level 6, No. 73 Miller Street, North Sydney NSW 2060

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Description of work to be undertaken: Groundworks, Piling and Shoring

Hazard Risk Rating: Use the table below to assign a risk rating to each identified potential accident or hazard for each job.
The risk rating after controls and safe work methods are adopted is to be between 3 and 6.
If the risk rating is less than 3 then further controls are required.

How severely could it hurt someone, or how ill could it make someone?	How likely is it to be that bad?			
	Very likely (could happen at any time)	Likely (could happen some time)	Unlikely (could happen but very rarely)	Very unlikely (could happen, but probably never will)
Kill or cause permanent disability	1	1	2	3
Long term illness or serious injury	1	2	3	4
Medical attention and several days off work	2	3	4	5
First aid needed	3	4	5	6
	The numbers show you how important it is to do something: 1 top priority: do something immediately 6 low priority: do something when possible			

This method of assessing risk is derived from WorkCover NSW HAZPAC.

Job Name: Sydney Catholic Schools (SCS) - Marist North Shore Job Number: 181863 SAAA Date:17/08/2021 Page: 2 of 10

Job or sequence of basic job steps	Potential accident or hazard	Initial risk rating	Controls / safe work methods	Final risk rating*
Covid-19 Management - site attendance	Staff visiting site becoming affected	1	<ol style="list-style-type: none"> 1. If staff have returned from travel overseas, no sites are to be visited for 14 days. 2. If staff feel unwell, stay at home, and get tested, do not attend site. 3. Refer to your state government's websites, and if you are a 'close contact' or a 'casual contact' as defined by the list of locations on the website, do not attend site and follow the State government's health advice. 4. Where reasonably practicable, arrange site visits with the contractor to be outside of peak personnel number times 5. Staff to ensure social distancing rules as per latest government advice are adhered to whilst on site 6. Staff to wear a protective face mask 7. Staff to wash hands before and after visiting each site 8. Adhere to all contractors Covid 19 site specific requirements 9. Adhere to all State Government's health directives 10. Where practicable, remain outside during inspections, keep out of site offices and confined spaces when others are present 	5

Job Name: Sydney Catholic Schools (SCS) - Marist North Shore Job Number: 181863 SAAA Date:17/08/2021 Page: 3 of 10

Job or sequence of basic job steps	Potential accident or hazard	Initial risk rating	Controls / safe work methods	Final risk rating*
Covid-19 Management - around the office	Infecting co-workers	1	<ol style="list-style-type: none"> All staff must check their State Government COVID webpage every day for case locations and alerts. If you are a “close contact” or a “casual contact” as defined by the list of locations on the State Government website, please work from home, advise TTW and follow the State Government Health advice. If you live in any of the suburbs identified as a cluster please work from home, and notify your team / manager. In Sydney, all staff and visitors must sign in using the Service NSW QR code Follow state government rules in relation to facemasks in the office and whilst traveling to and from sites/offices 	5
<i>Travelling to site, Long Distances by car</i> N/A	<i>Fatigue</i>	2	<i>Take a break every 2 hours. If the trip takes more than 8 hours then the trip must be broken up in 2 days. Take a plane if this is an option.</i>	3
Access to and from site	Unsafe vehicle for travel to site	2	<ol style="list-style-type: none"> Ensure vehicle has valid registration and has been serviced in the past 12 months. Perform visual inspection of vehicle prior to each site visit to ensure there are no obvious defects. If company car - notify accounts immediately 	6
Access around site	Physical and mental impairment due to the effect of alcohol, drugs or medication.	1	Do not drive a vehicle or do not enter a construction site while under the influence of alcohol, drugs or medication.	5
<i>Access around site</i> N/A	<i>Physical impairment due to a pre-existing injury.</i>	1	<i>Do not drive a vehicle or do not enter a construction site while physically impaired by a pre-existing injury. Discuss with your Doctor and Director what duties you can perform during your rehabilitation.</i>	5

Job Name: Sydney Catholic Schools (SCS) - Marist North Shore Job Number: 181863 SAAA Date:17/08/2021 Page: 4 of 10

Job or sequence of basic job steps	Potential accident or hazard	Initial risk rating	Controls / safe work methods	Final risk rating*
Access around site N/A	Injury due to slips walking on formwork and reinforcement	3	Wear safety boots that are less than one year old. Ensure soles are not worn out. Avoid walking on wet or freshly oiled form ply. Instruct Builder to adequately chair / tie reinforcement	5
Access around site	Head injury due to falling object	2	Wear safety helmet that is less than one year old.	6
Access around site	General site safety issues: emergency / evacuation / hazards / restricted areas	4	Report to site office and obtain Contractor's site OH&S requirements, and site induction if available.	6
Access around site N/A	Falls from ladders	2	Do not use ladder unless adequately restrained. Use both hands to climb ladders. Three points of contact at all times. Ensure that step ladder brace is properly engaged.	4
Access around site	Noise	3	Wear ear plugs.	6
Access around site	Dust	3	Wear dust mask.	6
Access around site	Asbestos/toxic materials, substances, chemicals	1	Exclude areas from inspection until the area is certified as safe for entry by a qualified person	3
Access around site N/A	Vacant building/site: no one around to provide assistance or call emergency services if accident occurs.	1	Never conduct an inspection on a vacant site or building. Arrange for another person to act as backup.	3
Access around site N/A	Scaffolding	3	- Do not use incomplete scaffolding. Look for the completed scaffold certificate located at the base of the scaffold. Advise the builder if the scaffold certificate is not located on the scaffold. Do not use uncertified scaffold. - Be aware of obvious defects such as the scaffold not properly secured to a building, inadequate bracing, founded on soft/fill ground, excessive swaying.	5

Job Name: Sydney Catholic Schools (SCS) - Marist North Shore Job Number: 181863 SAAA Date:17/08/2021 Page: 5 of 10

Job or sequence of basic job steps	Potential accident or hazard	Initial risk rating	Controls / safe work methods	Final risk rating*
Access around site N/A	Working from heights, roofs, BMU, stage, cherry picker etc	3	Harness must be worn. Maintenance logs must be sighted for equipment used. Trained operators must be on site to operate equipment. There must be a rescue plan in place, including rescue equipment and trained rescue personnel, in case of fall arrest situation. If there is a builder, building owner or manager on site then this rescue plan must be arranged and put in place by them prior to the site inspection. Otherwise we must arrange for a specialist subcontractor (refer to fall arrest/rope access contractors list on the intranet) to put the rescue plan in place.	5
Access around site N/A	Hit by vehicle, plant or excavator	3	- Wear high visibility vest. - Keep well clear of vehicles, plant or excavators - Stay alert. Do not wander around a site while talking on a mobile phone - Keep outside operating radius. If this cannot be avoided Get the attention of the operator prior to walking past.	5
Access around site	Outdoor work / skin cancer / sunburn	2	Wear sunscreen / tinted safety glasses	5
Access around site	Eye injury	3	Wear safety glasses.	6
Access around site N/A	Existing unstable building or structure due to structural, termite, rot damage or alterations etc	1	Do not enter unstable buildings or structures. Discuss with Director how to proceed.	3

Job Name: Sydney Catholic Schools (SCS) - Marist North Shore Job Number: 181863 SAAA Date:17/08/2021 Page: 6 of 10

Job or sequence of basic job steps	Potential accident or hazard	Initial risk rating	Controls / safe work methods	Final risk rating*
Access around site	Fall through holes in formwork / floors / voids / platforms. Falls into pits, steps or set downs in formwork or floors. Fall from the perimeter of formwork, or any other floor, structure or roof, falls into excavations	1	Look where you're walking. Immediately advise Builder if there are holes / pits that are not covered or do not have barriers around them. Be aware of steps / set downs in formwork / floors. Immediately advise Builder if there are perimeters of formwork, or any other floor, structure or roof without barriers. View the site to observe void protection systems and safety fencing is in place. If Not, notify the builder of this.	4
<i>Walking on grid mesh, plate floors or any other proprietary floor system of any material.</i> N/A	<i>Fall through floor due to the flooring not fixed or adequately fixed to the supporting structure resulting in the flooring becoming dislodged.</i>	1	<i>Ensure that grid mesh, plate floors or any other proprietary floor system of any material is adequately fixed to the supporting structure prior to walking on the floor. Advise the builder/building owner or the relevant person in authority and add this defect to the site inspection report.</i>	4
<i>Structural Steel erection</i> N/A	<i>Head injury due to falling objects, collapse of partially constructed steelwork.</i>	2	<i>Wear safety helmet, keep clear of areas where structural steelwork is being erected. Obtain confirmation from builder that structural steelwork erection is complete and the area is safe prior to inspecting.</i>	6
Walking on reinforcement	Slip, trip on untied reinforcement	2	-Site engineer to ask site to confirm bars are securely tied in place prior to commencing inspection. -Site engineer to undertake visual check for presence of tie wire prior to commencing inspection.	4
<i>Inspections within a ceiling space</i> N/A	<i>-Fall from ladder -Fall between ceiling joists/trusses -Dust/asbestos -Rotten/termite damaged timber -Electrocution -Poor lighting</i>	1	<i>-See "Falls from ladders" above -Special access is required if ceiling joists or truss spacing is greater than 600 (Discuss with Director) -See dust & asbestos above -Obtain timber inspection report -Isolate building from power if appropriate. Beware of and avoid cables. Assume all cables are live. -Carry suitable torch and backup torch.</i>	3

Job Name: Sydney Catholic Schools (SCS) - Marist North Shore Job Number: 181863 SAAA Date:17/08/2021 Page: 7 of 10

Job or sequence of basic job steps	Potential accident or hazard	Initial risk rating	Controls / safe work methods	Final risk rating*
Demolition	Falling objects, collapse of unstable parts of a building.	2	<ul style="list-style-type: none"> - Do not enter a demolition site without approval/briefing by the Director and Job Manager. - If you see something dangerous then immediately notify the builder, Director and Job Manager. - Prior to entering a demolition site find out if there is another engineer acting as a demolition engineer or if we are the demolition engineer (the role of the demolition engineer is to ensure that the demolition works are planned and executed to ensure that the building is stable and safe i.e. that uncontrolled collapse does not occur). - If there is another engineer acting as a demolition engineer, then they must provide a certificate at all stages before we enter the site that it is safe. - If we are the demolition engineer there must be TTW demolition documentation. If there isn't immediately advise the Director. 	4
Confined spaces N/A	Asphyxiation, Dust/fume inhalation, electrocution	3	<ul style="list-style-type: none"> - Do not enter a confined space without the approval of a Director. - If approval is given then a confined space consultant (refer to subconsultant list) must be engaged to: inspect the confined space, provide specific training for the confined space, attend the site on the day of the inspection to provide all necessary equipment (lighting, gas monitoring, access etc). - There is no need to enter detention tanks to inspect the orifice plate. The plate dimensions should be inspected prior to installation and then the builder should take photos of the installed plate for our review. 	4
Existing Building	Similar to "access to and around site"	3	<ul style="list-style-type: none"> Know locations of exits. Take mobile phone. As above for access to and around site. Notify Reception of your presence if building occupied. 	5

Job Name: Sydney Catholic Schools (SCS) - Marist North Shore Job Number: 181863 SAAA Date:17/08/2021 Page: 8 of 10

Job or sequence of basic job steps	Potential accident or hazard	Initial risk rating	Controls / safe work methods	Final risk rating*
Roadworks: Dilapidation Reports N/A	Hit by vehicle or plant	3	Wear safety vest and steel cap boots. Additional person to control or assist with traffic.	6
Inspecting Marine Structures from a boat N/A	<ul style="list-style-type: none"> a) Falling objects b) Slipping on boat and marine structure c) Falling into water d) Water swell or wake from other boats/ferries causing boat to rock violently and move up and down (possible head injury) 	3	<ul style="list-style-type: none"> a) Wear hard hat b) Wear safety boots with non slip soles c) Wear life jackets d) Never do inspections alone e) Boat to have internal hand rails f) Ensure that there is sufficient free board under structure to allow for swell: 1 metre minimum. 	5
Excavations trenches, cuttings, batters	Collapsing excavation, instability, not properly shored / battered, excavation in sand close to existing structures (particularly old building and retaining walls) causing undermining of footings	2	Keep clear of the edge of excavations etc as much as possible. Ensure batters are stable (obtain copy of geotechnical engineer's inspection report or advise builder to urgently arrange geotechnical engineers inspection) / benching has been provided. Report possible undermining of existing foundations when near their zone of influence to the builders to urgently arrange geotechnical engineer and to the project director.	4
Shored sites designed by TTW or other consultants	Shoring failures	2	Ensure design, construction and geotechnical certificates obtained before visiting sites designed by other consultants and geotechnical certificate obtained for shoring designed by TTW.	4

Job Name: Sydney Catholic Schools (SCS) - Marist North Shore Job Number: 181863 SAAA Date:17/08/2021 Page: 9 of 10

Job or sequence of basic job steps	Potential accident or hazard	Initial risk rating	Controls / safe work methods	Final risk rating*
Inspection near adjoining building foundations	Instability of buildings next door. Instability caused by undermining of footings, excavation with the footing influence zone, softening of foundation material, drawdown of water table etc.	1	Keep clear of the edge of excavations etc as much as possible. Ensure batters are stable (obtain copy of geotechnical engineer's inspection report or advise builder to urgently arrange geotechnical engineers inspection) / benching has been provided. Report possible undermining of existing foundations when near their zone of influence to the builders to urgently arrange geotechnical engineer and to the project director.	3
Inspections in the vicinity of partly constructed or demolished masonry walls and other structures	Collapse of unbraced / unsupported partly constructed or demolished brick walls / structures.	1	Immediately advise builder of potential safety hazard. Do not go near unstable walls / structures. Advise job / builder manager that propping details required and installed progressively from a stable area. Refer also site induction.	3
<i>Inspections in the vicinity of Precast/Tilt-up Wall Panels</i> N/A	<i>Precast and tilt-up wall panels may fall due to insufficient support during construction, eg inadequate props, fixings, support to carry the loads (screw piles, concrete footings, concrete slab on ground, concrete suspended slab).</i>	1	<i>Panel support system to be properly designed and installed. Obtain temporary bracing design certificate from builder. Obtain temporary bracing installation certificate from the builder for each area of precast erection.</i>	4
<i>Mobile cranes / concrete pump cranes</i> N/A	<i>Potential to topple over, material being moved falling. Falling cranes through unpropped floors.</i>	1	<i>Keep outside operating radius and obey builders requirements.</i>	4
Additional Job Specific Risks:				
Footings, Piling and Shoring Wall Design	Encroachment into Metro Tunnel Reserves	1	Design of Footings, Piling and Shoring to be carried to be carried out by a qualified Engineer in accordance with the Geotechnical Report. Design to be set out by a Registered Surveyor and plotted in cross section to ensure footings, piles and shoring anchors remain outside the Metro Reserves.	3

Job Name: Sydney Catholic Schools (SCS) - Marist North Shore Job Number: 181863 SAAA Date:17/08/2021 Page: 10 of 10

Job or sequence of basic job steps	Potential accident or hazard	Initial risk rating	Controls / safe work methods	Final risk rating*
Footings, Piling and Shoring Wall Installation	Encroachment into Metro Tunnel Reserves	1	Immediately notify Sydney Metro if there are any indications of encroachments into Metro Tunnel Reserves, possible undermining of the existing foundations & the alike. The Sydney Metro Emergency number for the Sydney Metro - City & Southwest: 1800 171 386.	3

*Final Risk Rating is the risk rating after safe work method has been applied.

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Prepared By:
Taylor Thomson Whitting (NSW) Pty Ltd
in its capacity trustee for the Taylor Thomson Whitting NSW Trust

Mike BARRETT

Authorised By:
Taylor Thomson Whitting (NSW) Pty Ltd
in its capacity trustee for the Taylor Thomson Whitting NSW Trust

Mike BARRETT
Technical Director

Michael Barrett

From: Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Sent: Friday, 3 September 2021 9:26 AM
To: Brodie McHutchison
Cc: Michael Barrett
Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)

[External Email]: Do not click links or open attachments unless you recognize the sender and know the content is safe.

Morning Brodie,

Thank you for your email. Sydney Metro confirms we do not require any further information at this stage & have issued our response letter to DPIE.

Regards,

Jennifer Nguyen
(Mon, Tues, Wed & Fri)
Corridor Protection – Assistant Planner
Sydney Metro

T 0420 248 290

sydneymetro.info

Level 43, 680 George Street, Sydney NSW 2000
PO Box K659, Haymarket NSW 1240



From: Brodie McHutchison [mailto:Brodie.McHutchison@ctpg.com.au]
Sent: Thursday, 2 September 2021 1:10 PM
To: Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Cc: Michael Barrett <Michael.Barrett@ttw.com.au>
Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)

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Hi Jennifer,

I've been cc'd on these emails and we are the Project Manager's for this project. We note that in your last email that Sydney Metro were preparing a letter to DPIE, are you able to provide us with a copy of that letter, so we can include it in our RTS, or if not, just a confirmation that the letter was issued to DPIE?

Feel free to give me a call if needed.

Kind regards,

Brodie McHutchison
Director



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From: Sydney Metro Corridor Protection <SydneyMetroCorridorProtection@transport.nsw.gov.au>
Sent: Wednesday, 18 August 2021 2:07 PM
To: Michael Barrett <Michael.Barrett@ttw.com.au>
Cc: Brodie McHutchison <Brodie.McHutchison@ctpg.com.au>
Subject: RE: Construction enquiry - Marist Catholic College North Sydney (SSD-10473)

Hi Michael,

Thanks for that. Information generally looks good so far & we are looking into closing out the letter for DPIE.

Regards,

Jennifer Nguyen
(Mon, Tues, Wed & Fri)