

<u>GENERAL</u>

- G1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL'S REQUIREMENTS AND SPECIFICATIONS.
- G2. ALL WORK SHALL BE DONE IN A SOUND, EFFICIENT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND PRINCIPLES. ALL WORKS ARE TO BE COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALSO WITH THE ENGINEERING PURPOSE AND INTENT OF THE DRAWINGS SPECIFICATIONS AND INSTRUCTIONS BY PROJECT MANAGER.
- LOCATION OF EXISTING SERVICES (IF SHOWN) IS APPROXIMATE ONLY CONTRACTOR SHALL CHECK LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK AND ACCEPT FULL RESPONSIBILITY FOR THE COST OF REPAIRS AND CONSEQUENCES OF ANY DAMAGE WHICH MAY OCCUR TO THESE SERVICES AS A RESULT OF CONSTRUCTION WORKS.
- ALL DISTURBED AREAS NOT SUBJECT TO NEW WORKS SHALL BE REINSTATED TO EXISTING CONDITION BY THE CONTRACTOR AT THE COMPLETION OF WORKS UNLESS OTHERWISE INSTRUCTED BY THE SUPERINTENDENT.
- DURING THE ROAD WORKS ALL TRAFFIC MANAGEMENT IS TO BE IN ACCORDANCE WITH RMS PUBLICATION "TRAFFIC CONTROL AT WORKSITES" (JUNE 2010)
- PROVIDE SURFACE AND SUBSOIL DRAINAGE TO PREVENT MOISTURE EGRESS INTO THE PAVEMENT AND SUBGRADE. REFER TO HYDRAULIC ENGINEER DRAWINGS
- REFERENCE SHALL BE MADE TO GEOTECHNICAL INVESTIGATION REPORT BY EI AUSTRALIA E25203.G04 DATED 21 NOVEMBER 2023 AND SUBSEQUENT REPORTS AND INSTRUCTIONS.
- REFERENCE SHALL BE MADE TO SITE SURVEY BY BEVERIDGE WILLIAMS 2101343
- THE CONTRACTOR SHALL LOCATE ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND PROTECT AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE AND/OR ADJUST IF NECESSARY. INFORMATION GIVEN ON THE DRAWINGS IN RESPECT TO SERVICE IS FOR
- G10. CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER AND SUPERINTENDENT.

NOTICE TO DEVELOPER / BUILDER:

THE FOLLOWING IS AN EXTRACT FROM THE PRACTICE NOTE No. 10 BY THE ASSOCIATION OF CONSULTING STRUCTURAL ENGINEERS (ACSE) OF NSW: THE BUILDING OWNER SHOULD BE ADVISED THAT IN CARRYING OUT SHORING WORKS, IT IS VIRTUALLY IMPOSSIBLE TO ENTIRELY PREVENT ANY MOVEMENT OF THE EXCAVATION, AND THAT EXCAVATION MOVEMENT MAY LEAD TO DAMAGE TO ADJOINING PROPERTIES. IT IS RECOMMENDED THAT CONSULTING ENGINEERS, WITH THE APPROPRIATE ADVICE FROM THE GEOTECHNICAL CONSULTANT, ADVISE OWNERS OF THE POSSIBLE RISK ASSOCIATED WITH THE WORKS AND THE POTENTIAL FOR DAMAGE TO ADJOINING PROPERTIES, WHICH MAY SUBSEQUENTLY NEED REPAIRS (EG THE DAMAGE MAY BE IN THE FORM OF CRACKS WHICH WOULD NEED TO BE REPAIRED AT THE DEVELOPER'S EXPENSE) THIS COURSE OF ACTION IS NOT INTENDED TO BE OR APPEAR TO BE ALARMIST, BUT SIMPLY A PROPER DISCHARGE OF THE ENGINEER'S RESPONSIBILITIES. THE BUILDING OWNER SHOULD BE ADVISED TO ALLOW A SUM OF MONEY AS A CONTINGENCY FOR ANY REPAIRS TO ADJOINING BUILDINGS."

SITE PREPARATION, CLEARING AND GRUBBING

- S1. ALL WORK TO BE IN ACCORDANCE WITH AS3798 UNO
- S2. DIVERTING WATER AND DEWATERING:
- THE CONTRACTOR SHALL TAKE ALL NECESSARY ACTION TO PREVENT ANY SEEPAGE OR SUBSOIL WATER FROM INTERFERING WITH THE PROGRESS OF THE WORKS. THE WORK SHALL BE KEPT FREE FROM SUCH WATER.
- SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED BY COUNCIL AND AS DETAILED IN HYDR. ENG. DRAWINGS SHALL BE CARRIED OUT FOR THE FULL DURATION OF THE WORKS BY THE CONTRACTOR.
- THE SITE AREA SUBJECT TO NEW WORKS IS TO BE CLEARED OF ALL VEGETATION, FALLEN TIMBER, RUBBISH, DEBRIS AND CONCRETE FOUNDATIONS.
- STRIP EXISTING TOPSOIL AND DISPOSE OF OR REUSE FOR LANDSCAPING AS PER SPECIFICATION. DEPTH OF TOPSOIL MAY EXCEED 200 mm IN SOME AREAS. ONLY REMOVE TOPSOIL AS DIRECTED BY THE SUPERINTENDENT.

EARTHWORKS WHERE IN SOIL

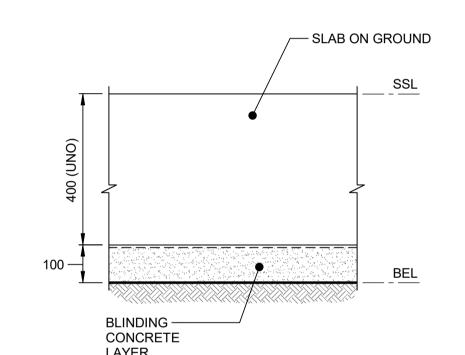
- E1. ALL WORK TO BE IN ACCORDANCE WITH AS3798-2007 AND COUNCIL
- REQUIREMENTS.
- E2. IN CUT AREAS:-CUT TO LEVEL OF TOP OF SUBGRADE. REPLACE SOFT AREAS. TOP 200 OF SUBGRADE TO BE COMPACTED TO 100% STANDARD, AS PER FILLING NOTES UNO.
- E3. IN FILL AREAS:-
- REPLACE SOFT AREAS, PLACE AND COMPACT NEW FILL IN 200mm MAX. THICK LAYERS (LOOSE FILL), AT MOISTURE CONTENT IN RANGE OF ± 2% OF STANDARD OPTIMUM (AS PER AS1289.5) AND COMPACT TO A RANGE BETWEEN 98% AND 102% OF STANDARD DRY DENSITY RATIO AS PER AS1289.5 TEST COMPACTED FILL UNO. TOP 200 OF SUB GRADE TO BE COMPACTED TO 100% STANDARD DRY DENSITY RATIO UNO.
- E4. FILL MATERIAL- TO BE AS SPECIFIED IN AS3798-2007 CLAUSE 4.4 AND AS AGREED WITH THE SITE SUPERINTENDENT.

WHERE IN ROCK

- E1. ALL WORK TO BE IN ACCORDANCE WITH AS3798 UNO.
- E2. CUT TO LEVEL OF TOP OF SUBGRADE PLUS THICKNESS OF GRANULAR LAYER
- SUBGRADE PREPARATION TO SUIT REQUIREMENTS OF PILING CONTRACTOR'S EQUIPMENT. BULK EXCAVATION LEVELS SHOWN INCLUDE ANY TOP LAYERS REPLACED TO CREATE WORKING PLATFORM FOR PILING RIG. TOP LAYER SHALL BE COMPACTED GRANULAR MATERIAL.
- E3. FOLLOWING COMPLETION OF PILING WORKS AND PRIOR TO CONSTRUCTION OF BASEMENT SLAB, GEOTECHNICAL INSPECTION AND COMPACTION WILL BE REQUIRED.
- E4. REFER GEOTECHNICAL REPORT:
 - EI AUSTRALIA E25203.G04 DATED 21 NOVEMBER 2023 AND SUBSEQUENT REPORTS AND INSTRUCTIONS
- E5. DETAILED, ON-GOING INSPECTION BY AN EXPERIENCED GEOTECH ENGINEER OF ANY EXCAVATED ROCK FACES.

NOTE:

- SHORING WALL TO BE CONSTRUCTED IN A STAGED MANNER SO THAT THE TEMPORARY EXCAVATION IS STABLE AT ALL TIMES.
- STAGING OF EXCAVATION TO BE REVIEWED BY GEOTECHNICAL ENGINEER.
- NO EXCAVATION BELOW 500 BELOW TEMPORARY ANCHOR LOCATION UNTIL TEMPORARY ANCHOR HAS BEEN FULLY STRESSED AND APPROVED.



TYPICAL BULK EXCAVATION DETAIL

ISSUED FOR APPROVAL

SSUED FOR APPROVAL 07-08-24 DATE

Original Sheet Size A1 (841x594)

SUITE 41 & 42, LEVEL 4 61 MARLBOROUGH ST SURRY HILLS, NSW 2010 T 02 9698 8510 ABN 63 131 365 896 NOMINATED ARCHITECT: KOICHI TAKADA NSW ARCHITECTS 6901 VIC ARCHITECTS 16179

QLD ARCHITECTS 5590

KOICHITAKADA.COM

Architects

Takada

1112-1116 BARRENJOEY RD 1112 - 1116 BARRENJOEY ROAD, PALM BEACH

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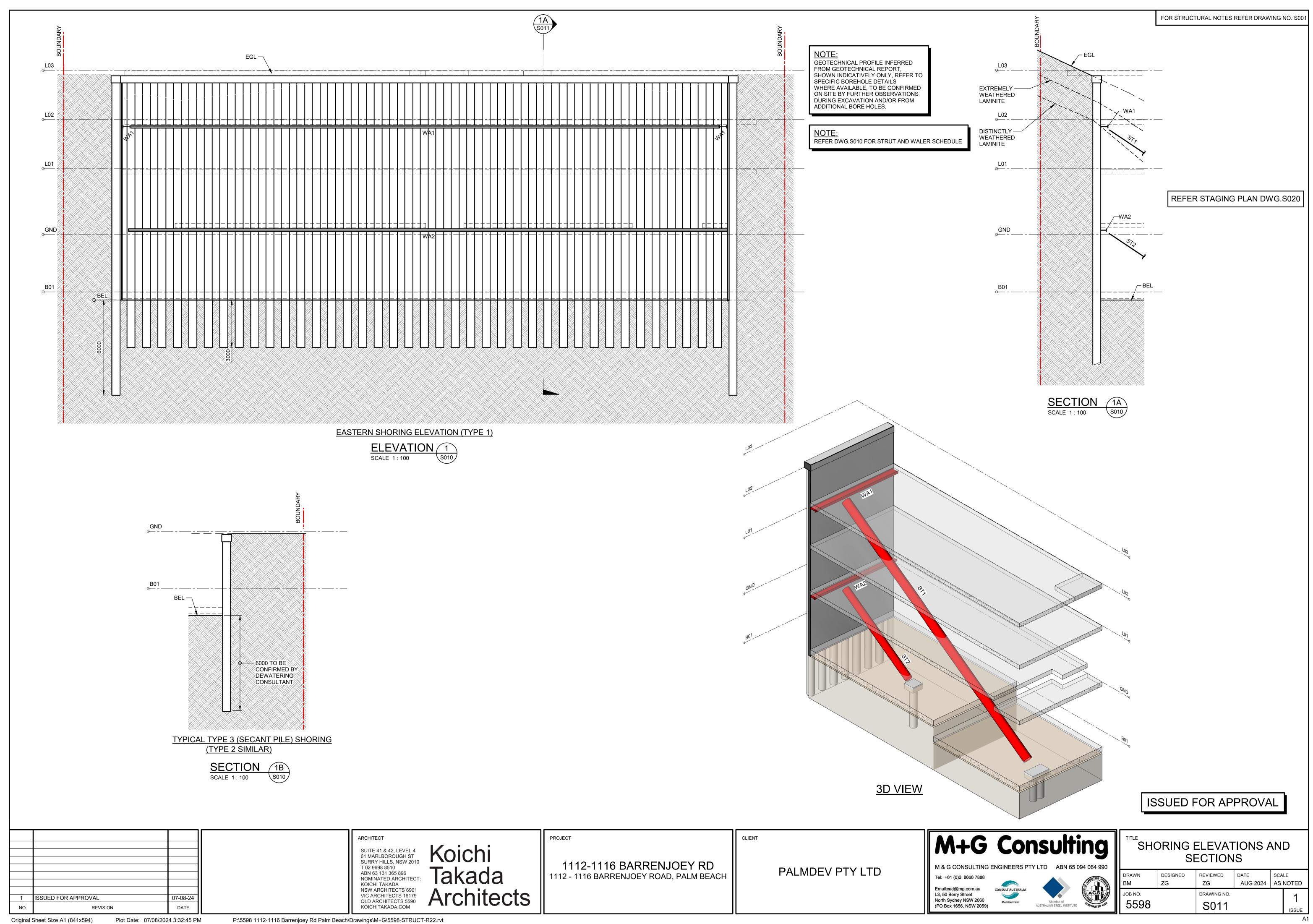
North Sydney NSW 2060

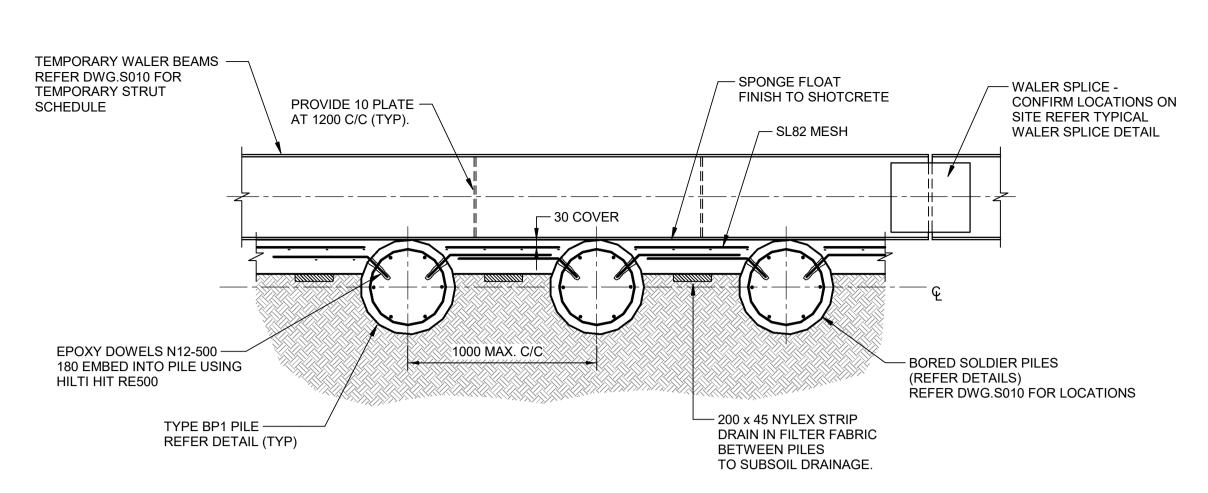
(PO Box 1656, NSW 2059)

L3, 50 Berry Street

SHORING & BULK EXCAVATION PLAN

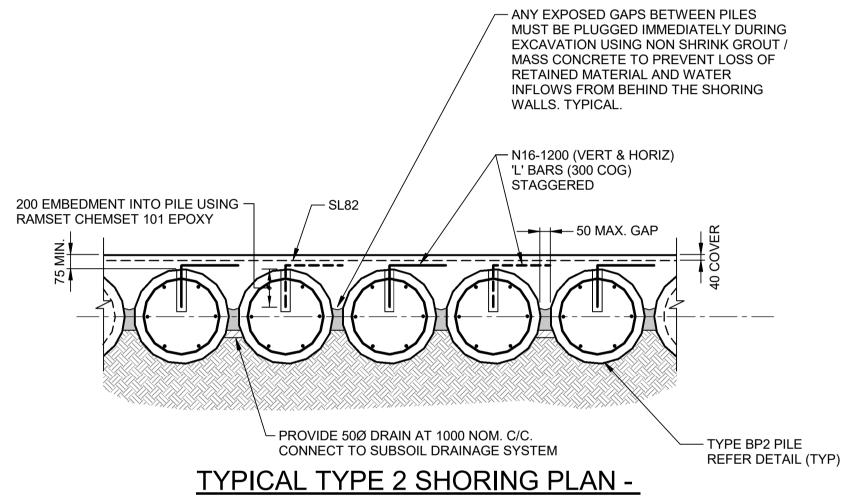
DATE SCALE DRAWN REVIEWED DESIGNED AUG 2024 | AS NOTED JOB NO. DRAWING NO 5598 S010





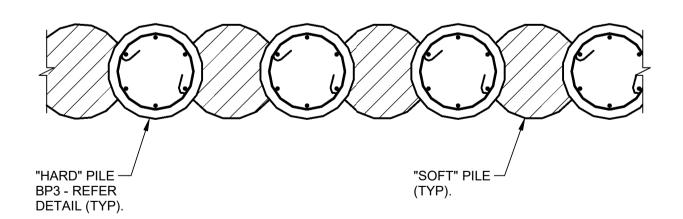
TYPICAL TYPE 1 SHORING PLAN -SOLDIER PILE AND SHOTCRETE WALL

- ABOVE MEDIUM STRENGTH SILTSTONE



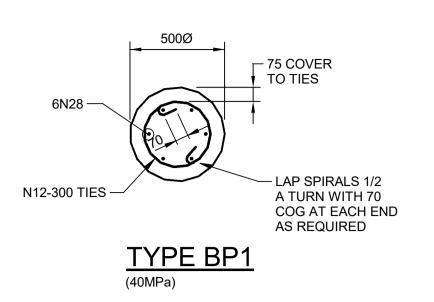
CONTIGUOUS PILE AND SHOTCRETE FACING PLAN

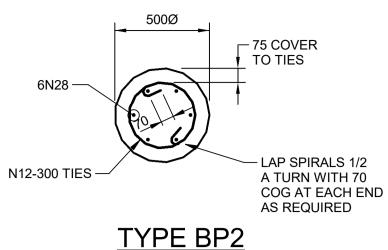
IF SHOTCRETE USED. REFER GEOTECHNICAL REPORT.



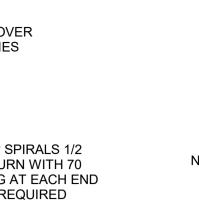
TYPICAL TYPE 3 SHORING PLAN - SECANT PILE

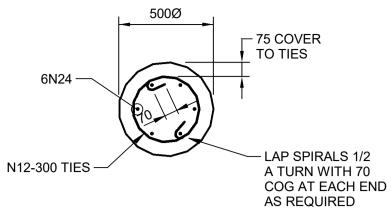
SECANT PILE WALL TO BE WATERTIGHT TO PILING SUB-CONTRACTOR'S DETAIL





(40MPa)





TYPE BP3 "HARD PILE"

(40MPa)

SECANT PILE WALL TO BE WATERTIGHT TO PILING SUB-CONTRACTOR'S DETAIL

SHORING PILE SECTIONS

REFER PLAN FOR LOCATIONS

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ARCHITECT SUITE 41 & 42, LEVEL 4 61 MARLBOROUGH ST SURRY HILLS, NSW 2010 T 02 9698 8510 ABN 63 131 365 896 NOMINATED ARCHITECT: KOICHI TAKADA
NSW ARCHITECTS 6901
VIC ARCHITECTS 16179
QLD ARCHITECTS 5590
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Koichi Takada **Architects** PROJECT

1112-1116 BARRENJOEY RD 1112 - 1116 BARRENJOEY ROAD, PALM BEACH

CLIENT

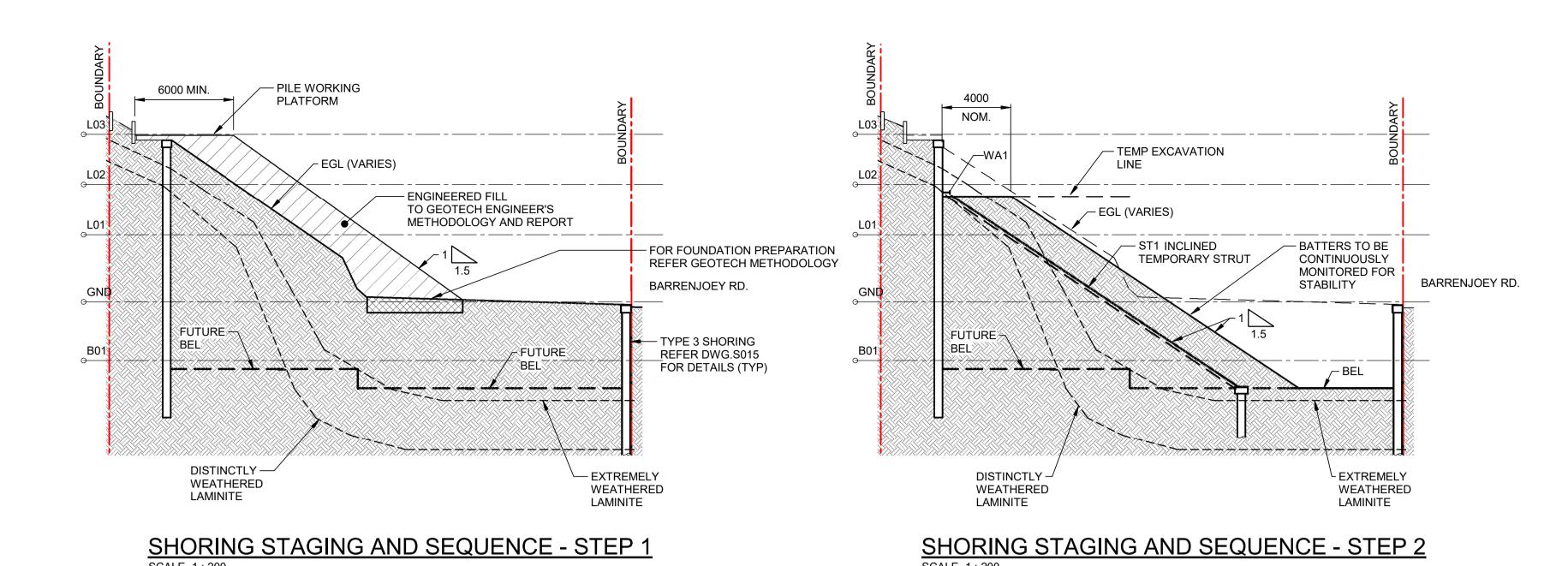
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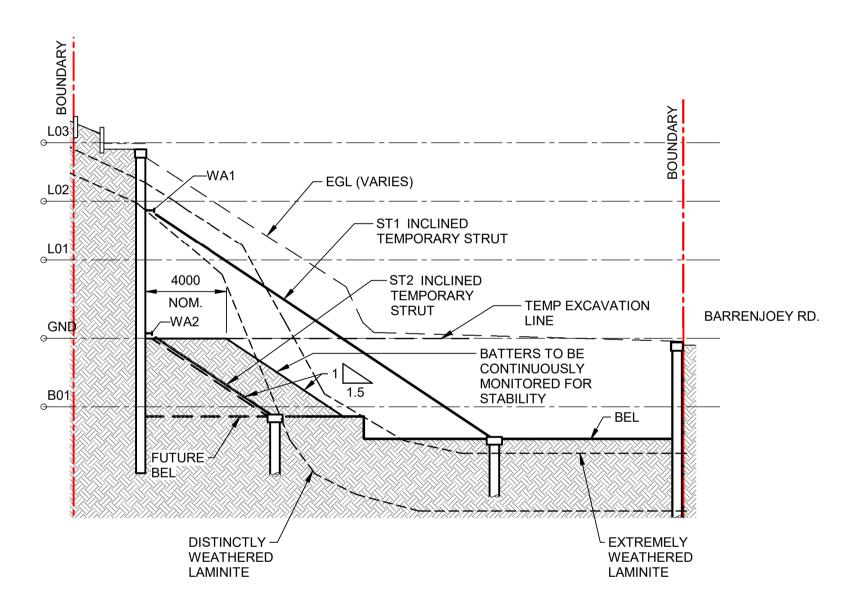
North Sydney NSW 2060

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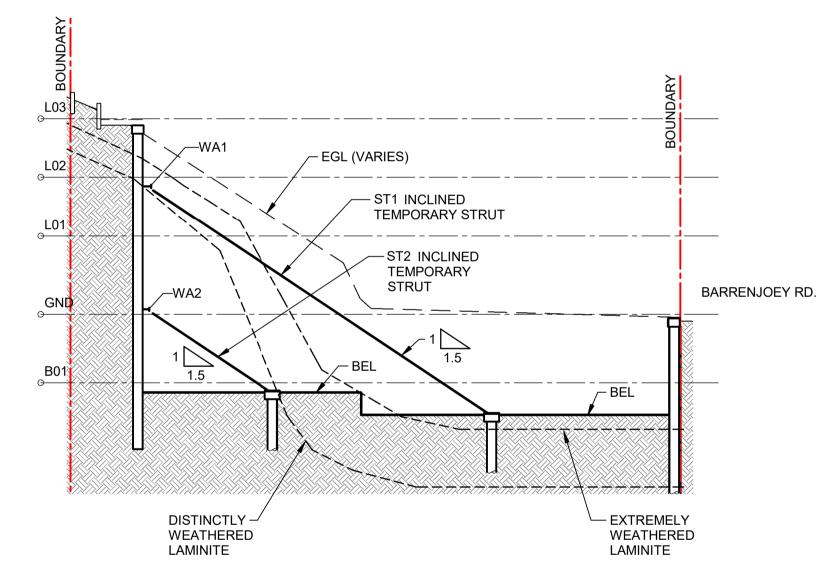
SHORING DETAILS				
DRAWN	DESIGNED	REVIEWED ZG	DATE	SCALE
BM	ZG		AUG 2024	AS NOTED



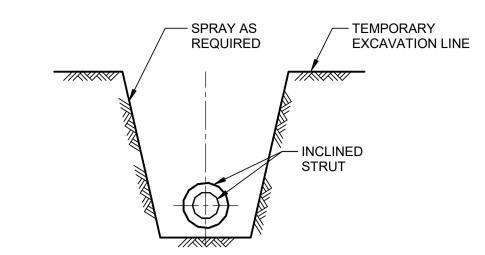
REFER DWG.S010 FOR STRUT AND WALER SCHEDULE



SHORING STAGING AND SEQUENCE - STEP 3



SHORING STAGING AND SEQUENCE - STEP 4



INCLINED STRUT INSTALLATION DETAIL SCALE 1:50

STAGING SEQUENCE

- . REMOVE EXISTING STRUCTURES AND RETAINING WALLS WITHIN THE SITE. COMPACT EGL AND BUILD ACCESS PLATFORM FOR THE PILING RIG, IN ACCORDANCE WITH THE REQUIREMENTS AND DETAILS IN THE GEOTECHNICAL METHODOLOGY BY EIA.
- 2. CONSTRUCT PILING AROUND THE FULL PERIMETER OF THE EXCAVATION AS PER THE PLAN.
- 3. REMOVE THE PILING RIG AND COMMENCE PROGRESSIVE EXCAVATION, DOWN TO TEL1 (TEMPORARY EXCAVATION LINE 1). INSTALL WALER BEAMS WA1 AS SPECIFIED. CUT SLOTS IN THE BATTER AS PER DETAIL, INSTALL BASE RESTRAINT PILES AND INSTALL INCLINED STRUTS ST1.
- 4. COMMENCE DEWATERING AS SPECIFIED BY EIA.
- 5. CONTINUE PROGRESSIVE EXCAVATION DOWN TO TEL2. INSTALL WALER BEAMS WA2 AS SPECIFIED, PROVIDE SLOTS AND BASE PILES FOR STRUTS ST2 AND INSTALL ST2 STRUTS.
- 6. COMPLETE EXCAVATION TO BEL AS NOTED.
- 7. PROGRESS BUILDING STRUCTURE TO GF LEVEL INCLUDING HYDROSTATIC SLAB AND WALLS (TANKED BASEMENT) AND GF SLAB.
- 8. ONCE GF SLAB CURED, REMOVE ST2 STRUTS AND WA2 WALERS.
- 9. CONTINUE BUILDING STRUCTURE UP TO L2 INCLUDING L2 SLAB.
- 10. ONCE L3 SLAB SUFFICIENTLY CURED, REMOVE ST1 STRUTS AND WA1 WALERS.
- 11. COMPLETE STRUCTURE TO THE ROOF LEVEL, DEWATERING MAY BE DISCONTINUED.

GEOTECHNICAL PROFILE INFERRED FROM GEOTECHNICAL REPORT, SHOWN INDICATIVELY ONLY, REFER TO SPECIFIC BOREHOLE DETAILS WHERE AVAILABLE, TO BE CONFIRMED ON SITE BY FURTHER OBSERVATIONS DURING EXCAVATION AND/OR FROM ADDITIONAL BORE HOLES.

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PROJECT

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(PO Box 1656, NSW 2059)

SHORING STAGING AND SEQUENCE

DATE SCALE DRAWN REVIEWED DESIGNED AUG 2024 AS NOTED JOB NO. DRAWING NO. S020