

*ACCESS LOGISTICS PARK
MRE ROAD, KEMPS CREEK
CIVIL DRAWINGS FOR DETAIL DESIGN*

DRAWING LIST

DRAWING NO.	DRAWING TITLE
<u>GENERAL</u>	
C014021.05-C 100	DRAWING LIST AND LOCALITY PLAN
C014021.05-C 150	SERVICES PLAN

EARTHWORKS PLANS

C014021.05-C 300	CUT/FILL BULK EARTHWORKS PLAN
C014021.05-C 301	BULK EARTHWORKS PLAN - SHEET 1
C014021.05-C 302	BULK EARTHWORKS PLAN - SHEET 2
C014021.05-C 350	BULK EARTHWORKS SECTIONS - SHEET 1
C014021.05-C 351	BULK EARTHWORKS SECTIONS - SHEET 2

INFRASTRUCTURE DRAINAGE

C01402105-C 400	STORMWATER DRAINAGE MASTER PLAN
C01402105-C 401	STORMWATER DRAINAGE PLAN - SHEET 1
C01402105-C 402	STORMWATER DRAINAGE PLAN - SHEET 2
C01402105-C 403	STORMWATER DRAINAGE PLAN - SHEET 3
C01402105-C 410	PIT SCHEDULE
C01402105-C 421	PRE DEVELOPMENT STORMWATER CATCHMENT PLAN
C01402105-C 422	POST DEVELOPMENT STORMWATER CATCHMENT PLAN
C01402105-C 423	WATER SENSITIVE URBAN DESIGN MANAGEMENT PLAN
C01402105-C 424	INFRASTRUCTURE CATCHMENT PLAN
C01402105-C 431	OSD BASIN 1 PLAN
C01402105-C 432	OSD BASIN 2 PLAN
C01402105-C 433	OSD BASIN 3 PLAN
C01402105-C 434	SYDNEY WATER DRAINAGE CHANNEL PLAN
C01402105-C 451	STORMWATER DRAINAGE DETAILS - SHEET 1
C01402105-C 452	STORMWATER DRAINAGE DETAILS - SHEET 2
C01402105-C 453	STORMWATER DRAINAGE DETAILS - SHEET 3
C01402105-C 454	STORMWATER DRAINAGE DETAILS - SHEET 4
C01402105-C 455	STORMWATER DRAINAGE DETAILS - SHEET 5
C01402105-C 456	STORMWATER DRAINAGE DETAILS - SHEET 6
C01402105-C 461	OFFLINE GPT R1 DETAILS
C01402105-C 462	OFFLINE GPT R2 DETAILS
C01402105-C 463	OFFLINE GPT R3 DETAILS
C01402105-C 471	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1
C01402105-C 472	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2
C01402105-C 473	STORMWATER DRAINAGE LONG SECTIONS - SHEET 3

ROADWORKS

C014021.05-C 500	ROADWORKS MASTER PLAN
C014021.05-C 501	ROADWORKS PLAN - SHEET 1
C014021.05-C 502	ROADWORKS PLAN - SHEET 2
C014021.05-C 503	ROADWORKS PLAN - SHEET 3
C014021.05-C 510	ROADWORKS PAVEMENT PLAN
C014021.05-C 521	ROADWORKS LONG SECTIONS ESTATE ROAD - SHEET 1
C014021.05-C 522	ROADWORKS LONG SECTIONS ESTATE ROAD - SHEET 2
C014021.05-C 541	KERB RETURN PLAN - ROAD 2
C014021.05-C 542	KERB RETURN PLAN - ROAD 1 & 3
C014021.05-C 543	KERB RETURN SECTIONS - ROAD 1 & 3
C014021.05-C 544	KERB RETURN PLAN & SECTION - ROAD 3
C014021.05-C 550	ROADWORKS TYPICAL SECTIONS
C014021.05-C 561	ROAD CROSS-SECTIONS - SHEET 1
C014021.05-C 562	ROAD CROSS-SECTIONS - SHEET 2
C014021.05-C 563	ROAD CROSS-SECTIONS - SHEET 3
C014021.05-C 564	ROAD CROSS-SECTIONS - SHEET 4
C014021.05-C 565	ROAD CROSS-SECTIONS - SHEET 5
C014021.05-C 566	ROAD CROSS-SECTIONS - SHEET 6
C014021.05-C 570	ROADWORKS DETAILS

DRAWING LIST (CONTINUED)

DRAWING NO.	DRAWING TITLE
<u>RETAINING WALLS</u>	
C014.021.05-C 600	RETAINING WALL SETOUT PLAN
C014.021.05-C 610	TYPICAL SECTION - SHEET 1
C014.021.05-C 611	TYPICAL SECTION - SHEET 2
C014.021.05-C 612	TYPICAL SECTION - SHEET 3
C014.021.05-C 621	RETAINING WALL ELEVATIONS
C014.021.05-C 650	RETAINING WALL DETAILS - SHEET 1
C014.021.05-C 651	RETAINING WALL DETAILS - SHEET 2
C014.021.05-C 652	RETAINING WALL DETAILS - SHEET 3
C014.021.05-C 653	RETAINING WALL DETAILS - SHEET 4
C014.021.05-C 655	PILE WALL DETAILS - SHEET 1
C014.021.05-C 656	PILE WALL DETAILS - SHEET 2

LINEMARKING & SIGNAGE

C014.021.05-C800	LINEMARKING & SIGNAGE MASTER PLAN
C014.021.05-C801	LINEMARKING & SIGNAGE PLAN - SHEET 1
C014.021.05-C802	LINEMARKING & SIGNAGE PLAN - SHEET 2
C014.021.05-C803	LINEMARKING & SIGNAGE PLAN - SHEET 3

GENERAL NOTES:

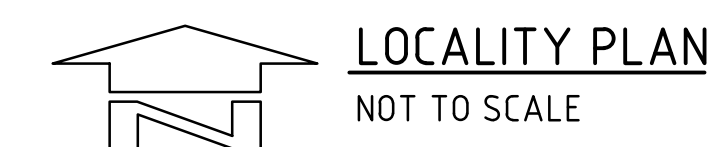
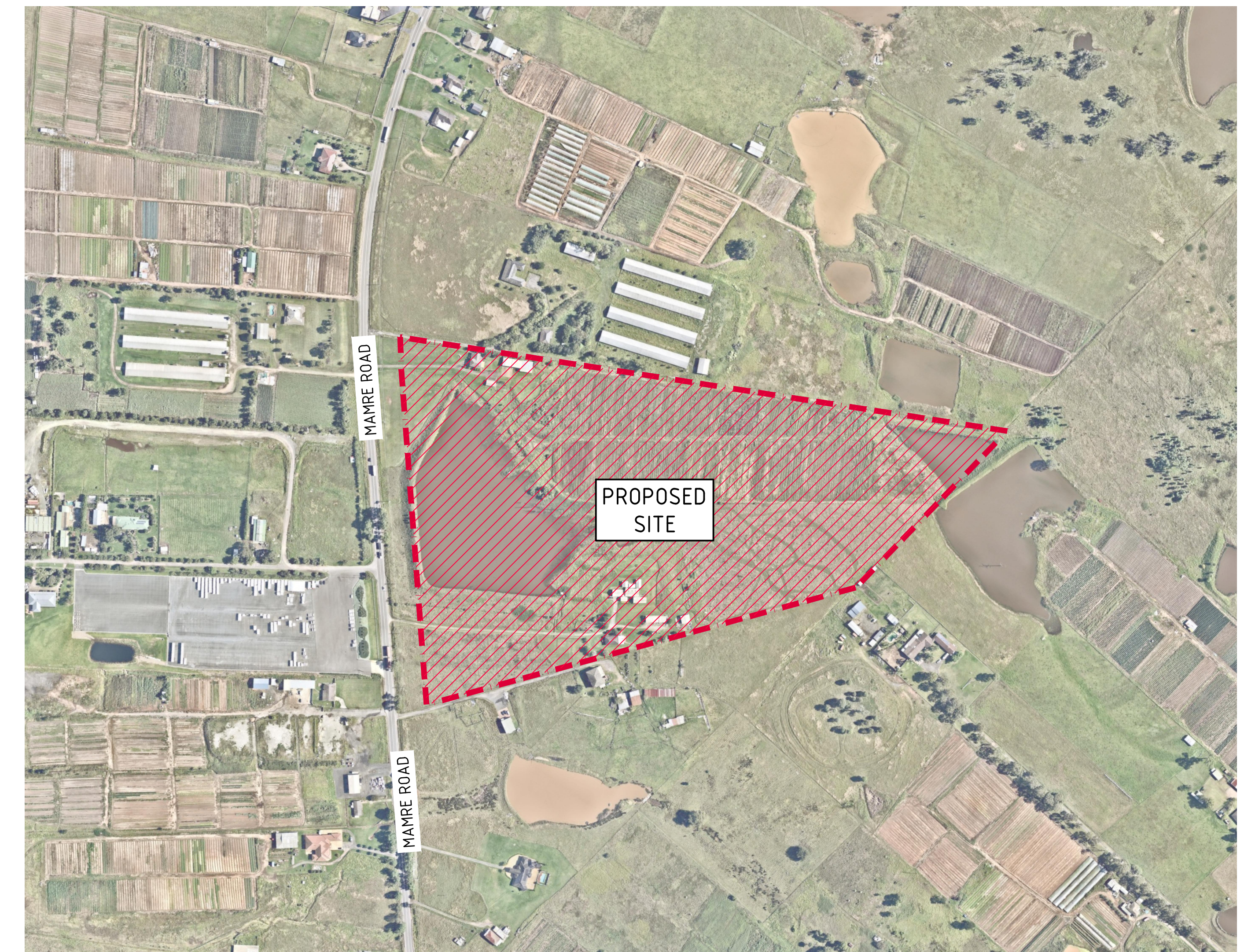
1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT STANDARDS AUSTRALIA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARYED BY THE PROJECT SPECIFICATION.
3. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. ENGINEER'S DRAWINGS ISSUED IN ANY ELECTRONIC FORMAT MUST NOT BE USED FOR DIMENSIONAL SETOUT.
4. REFER TO THE ARCHITECT'S DRAWINGS FOR ALL DIMENSIONAL SETOUT INFORMATION. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
5. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
6. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH ACCEPTABLE SAFETY STANDARDS & APPROPRIATE SAFETY SIGNS SHALL BE INSTALLED AT ALL TIMES DURING THE PROGRESS OF THE JOB.
7. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH THE NSW DPE DEVELOPMENT CONTROL 550-11647189.
8. ALL CONSTRUCTION WORKS TO BE COMPLETED IN ACCORDANCE WITH THE MAMRE ROAD DEP 2021.
9. 9. ALL PUBLIC DOMAIN WORKS TO BE COMPLETED IN ACCORDANCE WITH THE RELEVANT AUTHORITY REQUIREMENTS. ALL INTERNAL ROADS, AND ASSOCIATED INFRASTRUCTURE TO PENRITH CITY COUNCIL REQUIREMENTS INCLUDING THE LATEST CONSTRUCTION SPECIFICATION.

EXISTING SERVICES NOTES:

1. DURING THE EXECUTION OF WORKS, THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING SERVICES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED TO THE EXISTING SERVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT SERVICE AUTHORITY, AT NO COST TO THE PRINCIPAL.
2. WHERE IT IS NECESSARY TO REMOVE, DIVERT OR CUT INTO ANY EXISTING SERVICE, THE CONTRACTOR SHALL GIVE AT LEAST THREE (3) DAYS NOTICE OF ITS REQUIREMENTS TO THE SUPERINTENDENT, WHO WILL ADVISE WHAT ARRANGEMENTS SHOULD BE MADE FOR THE ALTERATION OF SUCH EXISTING WORKS.
3. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA. THE ACCURACY IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK. ALL CLEARANCES AND APPROVALS SHALL ALSO BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL NEW AND EXHUMED SERVICES THAT CROSS EXISTING AND FUTURE ROADS/PAVEMENTS WITHIN THE SITE SHALL BE BACKFILLED WITH DGB20 MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 98% STANDARD DENSITY RATIO. SUBJECT TO PRIOR APPROVAL FROM RELEVANT AUTHORITY.
5. ON COMPLETION OF SERVICES INSTALLATION, ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
6. CARE TO BE TAKEN WHEN EXCAVATING NEAR UTILITY SERVICES. NO MECHANICAL EXCAVATION TO BE UNDERTAKEN OVER SERVICES. LIAISE WITH RELEVANT AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS WITHIN THE CONTRACT AREA AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL TO REGULATORY AUTHORITY STANDARDS AND APPROVAL.
7. THE CONTRACTOR IS TO MAINTAIN EXISTING STORMWATER DRAINAGE FLOWS THROUGH THE ROADS AT ALL TIMES. MAKE DUE ALLOWANCE FOR ALL SUCH FLOWS AT ALL TIMES. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL OF THE PROGRAM FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
8. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES AS REQUIRED TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
9. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE OR DAMAGE TO THE ADJACENT RESIDENCES. CONTRACTOR TO GAIN APPROVAL OF THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
10. THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG (DBYD 1100) SERVICES SEARCH BEFORE THE COMMENCEMENT OF ANY WORKS.

SURVEY NOTE:

1. EXISTING SITE LEVELS AND DETAILS BASED ON A PLAN OF SURVEY 'SY074794.000.2.' BY 'LANDPARTNERS' DATED 25.03.2021.





THIS SUBDIVISION WORKS CERTIFICATE RELATES TO WORKS
REQUIRED FOR THE CONSTRUCTION OF LOT 2 BUILDING PAD ONLY

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE DPHI
APPROVED CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN,
WHICH INCLUDES THE APPROVED EROSION AND SEDIMENT CONTROL
PLANS

ELECTRONIC INFORMATION NOTES:

1. THE ISSUED DRAWINGS IN HARD COPY OR PDF FORMAT TAKE PRECEDENCE OVER ANY ELECTRONICALLY ISSUED INFORMATION, LAYOUTS OR DESIGN MODELS.
2. THE CONTRACTOR'S DIRECT AMENDMENT OR MANIPULATION OF THE DATA OR INFORMATION THAT MIGHT BE CONTAINED WITHIN AN ENGINEER-SUPPLIED DIGITAL TERRAIN MODEL AND ITS SUBSEQUENT USE FOR THE WORKS WILL BE SOLELY AT THE DISCRETION OF AND THE RISK OF THE CONTRACTOR.
3. THE CONTRACTOR IS REQUIRED TO HIGHLIGHT ANY DISCREPANCIES BETWEEN THE DIGITAL TERRAIN MODEL AND INFORMATION PROVIDED IN THE CONTRACT AND/OR DRAWINGS AND IS REQUIRED TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
4. THE ENGINEER WHO IS LABILY RESPONSIBLE FOR THE SUPPLY OF THE GOING-NEED TO UPDATE THE DIGITAL TERRAIN MODEL, SHOULD THERE BE ANY AMENDMENTS OR CHANGES TO THE DRAWINGS OR CONTRACT INITIATED BY THE CONTRACTOR.

CONTRACTOR TO ENSURE COMPLIANCE WITH ABORIGINAL CULTURAL HERITAGE
ASSESSMENT AND BIODIVERSITY DEVELOPMENT ASSESSMENT REPORT AS
REFERRED TO IN CONDITIONS B86 AND B93

<h2>Subdivision Works Certificate</h2>	
Certificate Number:	210204SW01
Issuing Officer:	Christopher Borg 
Registration Number:	BDC3330
These plans/specifications form part of the certificate issued: 04/10/2024	
	

FOR SWC-1

[illegible]

MIRVAC SITE
ANTICIPATED PAD LEVELS AS SHOWN
SIT LAYOUT PER MIRVAC SSDA_10448 EISLOT 7
BEL 59.40LOT 10
BEL 59.70

EXCLUDED FROM SWC-1

NOTE:

- SCOPE OF WORKS TO BE UNDERTAKEN AS PART OF SWC-1 APPROVAL TO BE AS PER BURTONS SCOPE
- DOCUMENT REF "430_ALP_BEW MOVEMENT PLAN (BEWMP) AS AGREED WITH BRS. WORKS NOT DESCRIBED BY THIS DOCUMENT SUBJECT TO FUTURE WORKS APPROVALS.

NOTES:

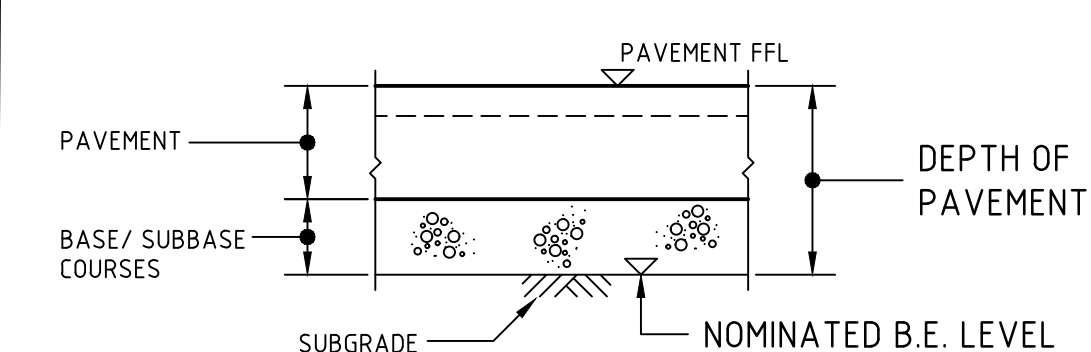
REFER TO DRAWING C300 FOR BULK EARTHWORKS NOTES.

LEGEND

NOTE:

LEVELS DATUM IS AHD.

- EXISTING CONTOUR
- B.E.L. CONTOUR (MAJOR 10m)
- B.E.L. CONTOUR (MINOR 0.25m)
- 2m RETAINING WALL SETBACK
- PROPOSED ROAD BOUNDARY

NOMINATED B.E.L. DETAIL
N.T.S.

Subdivision Works Certificate

Certificate Number: 210204SW01

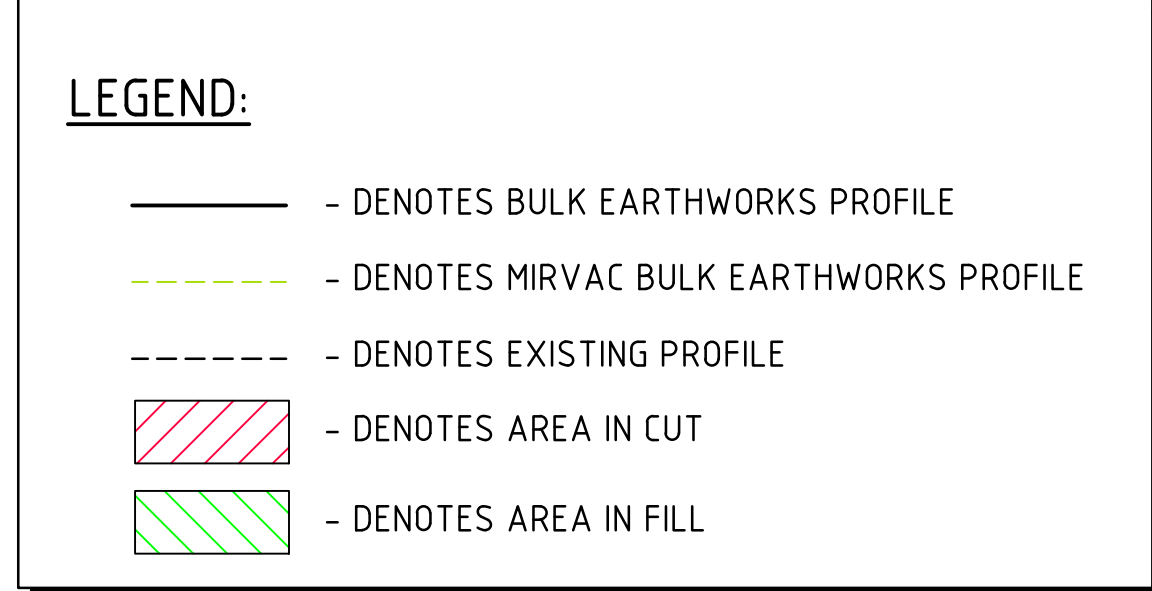
Issuing Officer: Christopher Borg

Registration Number: BDC3330

These plans/specifications form part
of the certificate issued: 04/10/2024BULK EARTHWORKS PLAN - SHEET 2
1:500 SCALEMIRVAC SITE
ANTICIPATED PAD LEVELS AS SHOWN
SIT LAYOUT PER MIRVAC SSDA_10448 EIS5m 0 10 20 30 40 50m
SCALE 1:500 AT A0 SIZE SHEET



FOR SWC-1

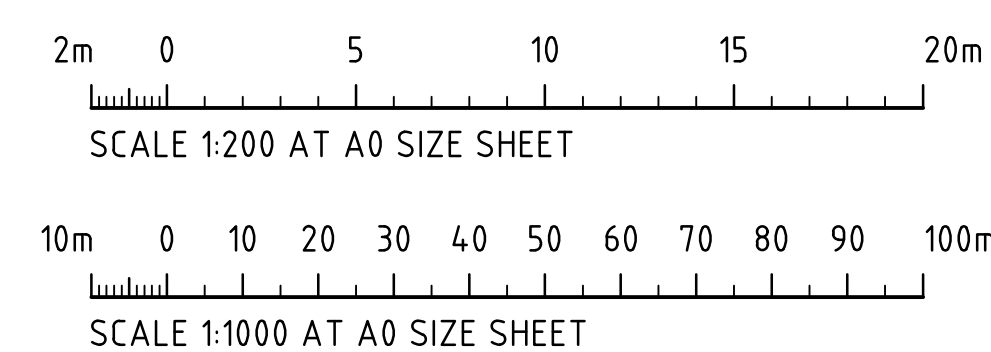
ISSUED FOR SWC-1				PROJECT MANAGER				ARCHITECT				CLIENT				PROJECT				CONSULT AUSTRALIA				Costin Roe Consulting Pty Ltd.				DRAWING TITLE			
ISSUED FOR CONSTRUCTION				PROJECT STRATEGY				BARKER RYAN STEWART				BURTON				884-928 MAMRE ROAD				PO Box 9419 Sydney NSW 1220				BULK EARTHWORKS PLAN				SHEET 2			
ISSUED FOR CONSTRUCTION				PROJECT STRATEGY				BARKER RYAN STEWART				BURTON				KEMPS CREEK, NSW				PO Box 9419 Sydney NSW 1220				SHEET 2				SHEET 2			
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REVISED AS CLOUDED				PROJECT STRATEGY				BARKER RYAN STEWART				BURTON				KEMPS CREEK, NSW				PO Box 9419 Sydney NSW 1220				SHEET 2				SHEET 2			
ISSUED FOR PRELIMINARY ONLY				PROJECT STRATEGY				BARKER RYAN STEWART				BURTON				KEMPS CREEK, NSW				PO Box 9419 Sydney NSW 1220				SHEET 2				SHEET 2			
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SECTION 1
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200

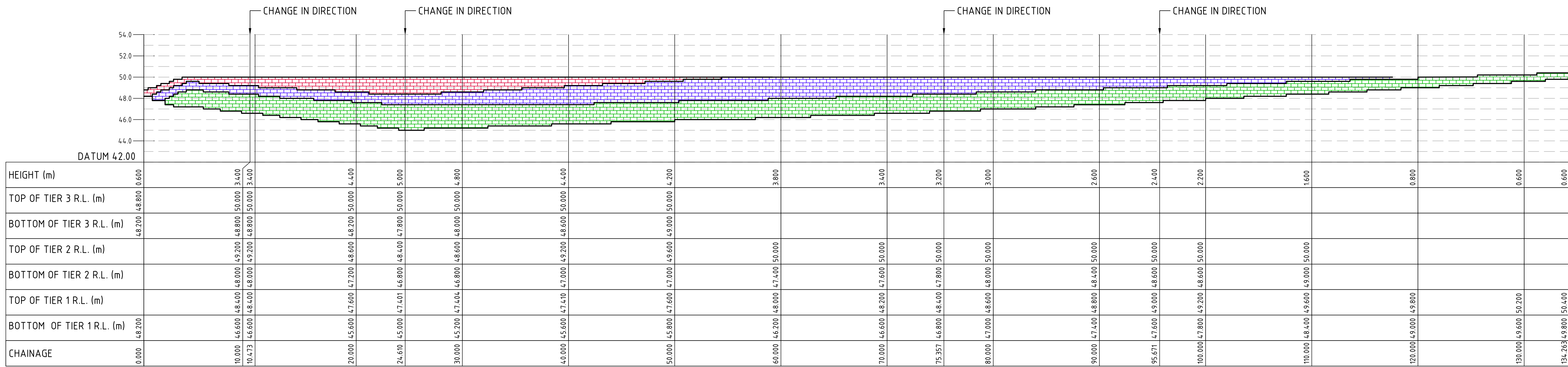


<h2>Subdivision Works Certificate</h2>	
Certificate Number:	210204SW01
Issuing Officer:	Christopher Borg 
Registration Number:	BDC3330
These plans/specifications form part of the certificate issued: 04/10/2024	
	



FOR SWC-1

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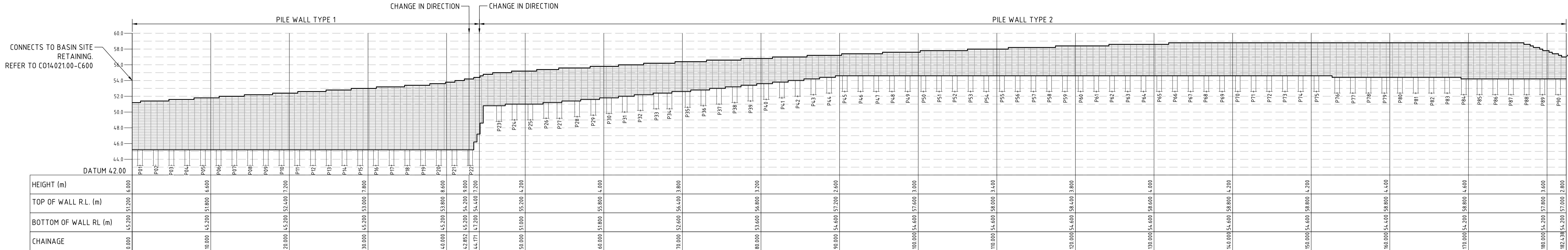
RETAINING WALL 2A ELEVATION

WALL SURFACE AREA = TIER 1: 210m²
TIER 2: 210m²
TIER 3: 80m²

WALL TYPE: REINFORCED EARTH TIERED RETAINING WALL TO BE DESIGNED BY D&C CONTRACTOR
SURCHARGE: 20 kPa MIN
RETAINING WALL EMBEDMENT = 300mm

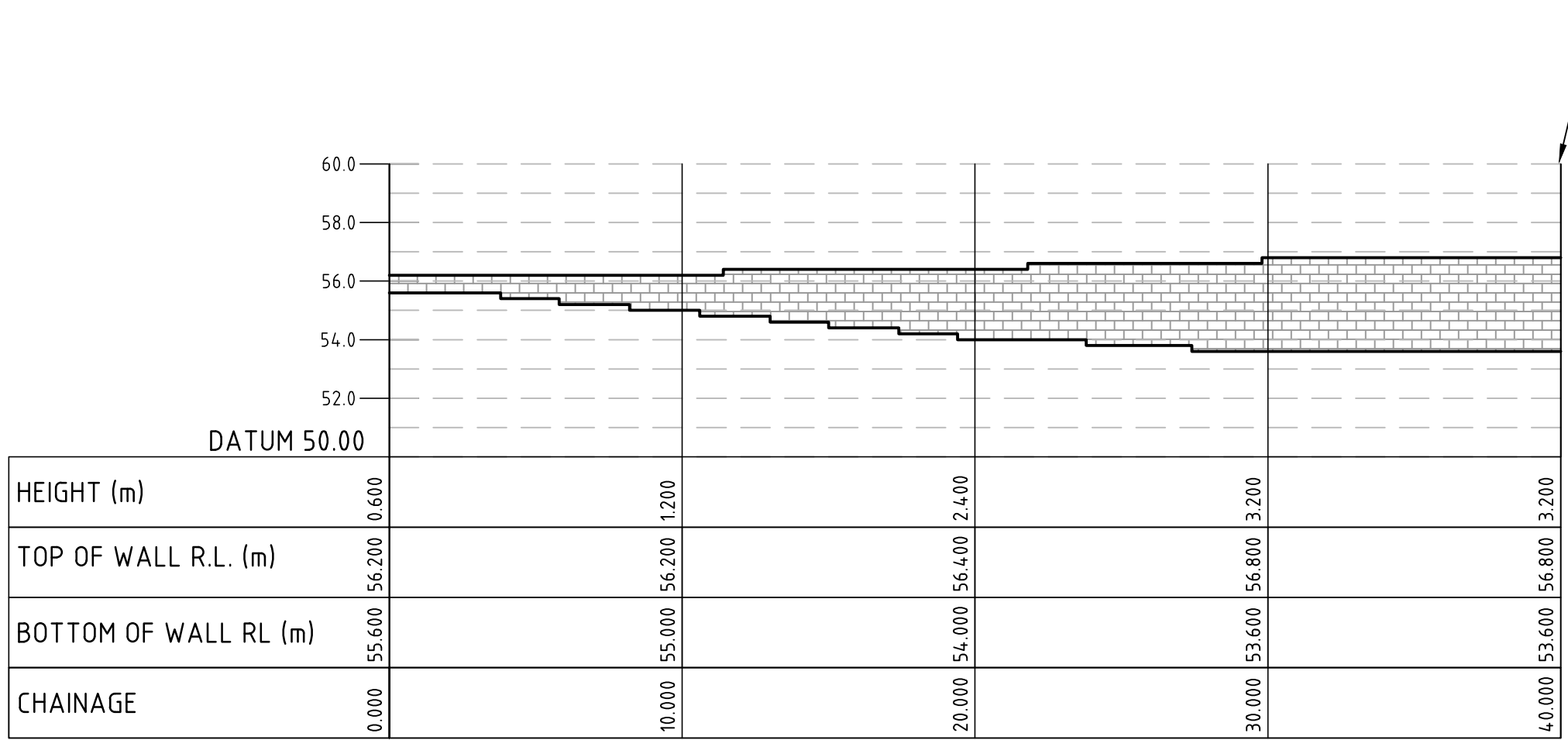
LEGEND:	
	- TIERED 1 REINFORCED EARTH RETAINING WALL
	- TIERED 2 REINFORCED EARTH RETAINING WALL
	- TIERED 3 REINFORCED EARTH RETAINING WALL
	- REINFORCED EARTH RETAINING WALL
	- BOULDER WALL

NOTE:	
1.	SCOPE OF WORKS TO BE UNDERTAKEN AS PART OF SWC-1 APPROVAL TO BE AS PER BURTONS SCOPE.
2.	DOCUMENT REF 1430_ALP_BEW MOVEMENT PLAN (BEWMP) AS AGREED WITH BRS. WORKS NOT DESCRIBED BY THIS DOCUMENT SUBJECT TO FUTURE WORKS APPROVALS.



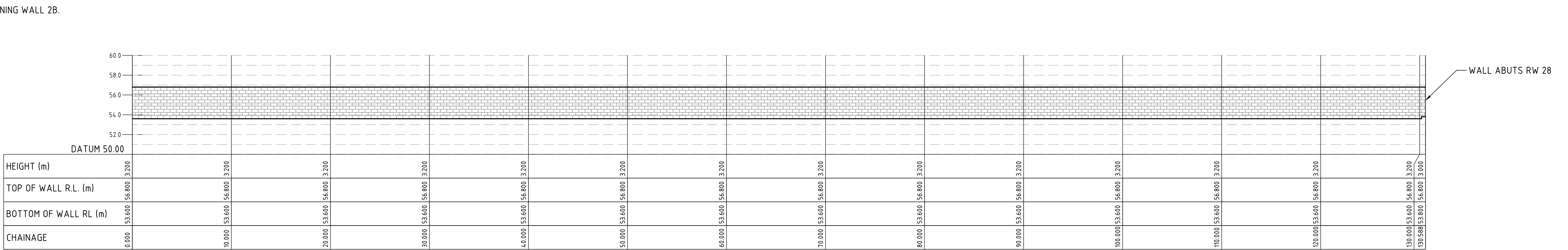
RETAINING WALL 2B ELEVATION

WALL SURFACE AREA = 860m²
WALL TYPE: CANTILEVERED PILE WALL
SURCHARGE: 5 kPa
PILE EMBEDMENT REFER TO DETAIL ON C655 & C656



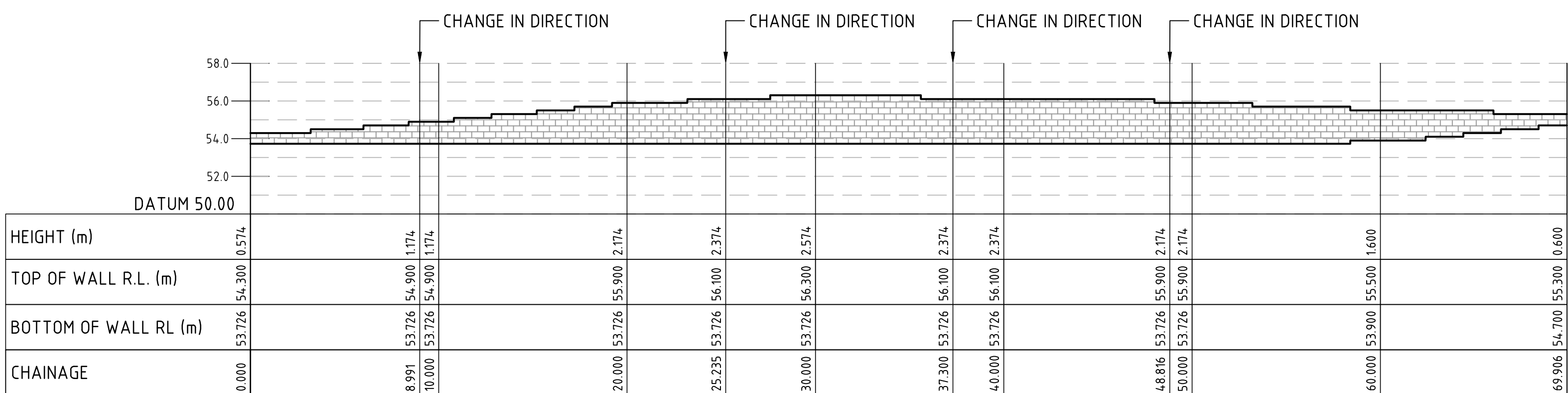
RETAINING WALL 3A ELEVATION

WALL SURFACE AREA = 87m²
WALL TYPE: BLOCKWORK WALL
SURCHARGE: 20 kPa MIN
RETAINING WALL EMBEDMENT = 300mm



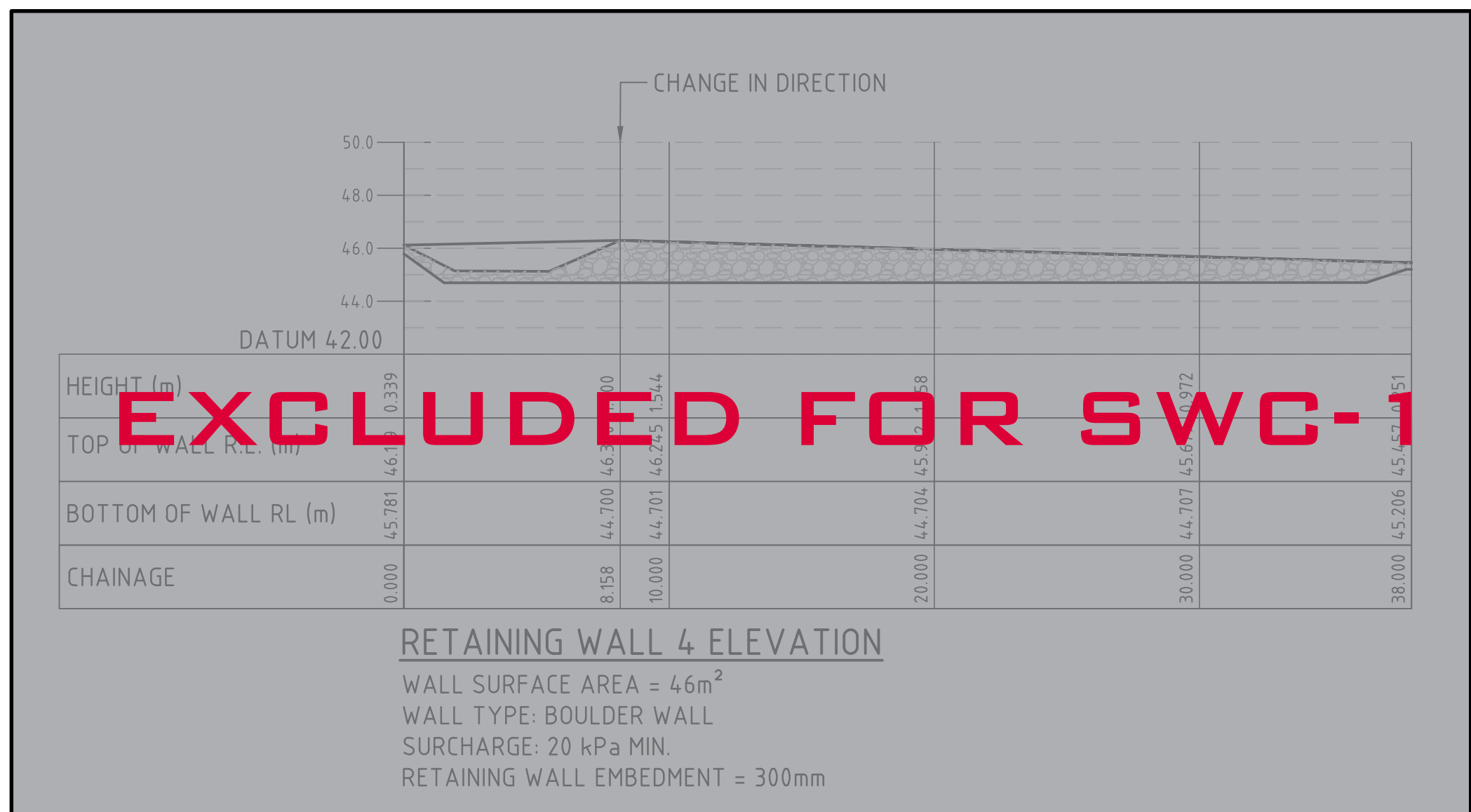
RETAINING WALL 3B ELEVATION

WALL SURFACE AREA = 418m²
WALL TYPE: REINFORCED EARTH WALL
SURCHARGE: 20 kPa MIN
RETAINING WALL EMBEDMENT = 300mm



RETAINING WALL 3C ELEVATION

WALL SURFACE AREA = 128m²
WALL TYPE: REINFORCED EARTH WALL
SURCHARGE: 20 kPa MIN
RETAINING WALL EMBEDMENT = 300mm



RETAINING WALL 4 ELEVATION

WALL SURFACE AREA = 46m²
WALL TYPE: BOULDER WALL
SURCHARGE: 20 kPa MIN
RETAINING WALL EMBEDMENT = 300mm

Subdivision Works Certificate

Certificate Number: 210204SW01

Issuing Officer: Christopher Borg

Registration Number: BDC3330

These plans/specifications form part of the certificate issued: 04/10/2024



1m 0 1 2 3 4 5 6 7 8 9 10m
SCALE 1:100 AT A0 SIZE SHEET

FOR SWC-1

ISSUED FOR SWC-1		25.09.24	4	PROJECT MANAGER		ARCHITECT		CLIENT		PROJECT		CONSULT		COSTIN ROE CONSULTING PTY LTD.		DRAWING TITLE	
ISSUED FOR SWC-1		13.09.24	3							ACCESS LOGISTICS PARK				PO Box 9419 Sydney NSW 1520		RETAINING WALL ELEVATIONS	
ISSUED FOR CONSTRUCTION		03.09.24	2							884-928 MAMRE ROAD				Levee 4 & Windmill Street, Miller Point NSW 2000			
REVISED AS CLOUDED		02.07.24	1							KEMPS CREEK, NSW				p: +61 2 9251 7699			
ISSUED FOR CONSTRUCTION		24.05.24	0											e: mail@costinroe.com.au			
ISSUED FOR PRELIMINARY ONLY		15.03.24	A	ISSUED FOR SWC-1		01.10.24	5							f: +61 2 9241 3731			
AMENDMENTS		DATE	ISSUE	AMENDMENTS		DATE	ISSUE	AMENDMENTS		DATE	ISSUE			w: costinroe.com.au		DRAWING No	
																C014021.05-C621	
																ISSUE	
																5	

1. ALL COMPONENTS AND INSTALLATION SHALL COMPLY WITH AS4678 AND THE STANDARDS
REFERRED TO THEREIN.

MINIMUM BEARING CAPACITY OF FOUNDATION TO BE AS FOLLOWS :

- 1. H MAX 2.0m \geq 100 kPa
- 2. H MAX 3.5m \geq 150 kPa
- 3. H MAX 5.0m \geq 200 kPa

2. BEFORE COMPLETION OF CONSTRUCTION THE FOUNDATION SHALL BE INSPECTED AND
VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER

3. WHEN MINIMUM BEARING IS NOT ACHIEVABLE OR NOT MEETING DESIGN REQUIREMENT, THE
FOUNDATION MATERIAL IS TO BE REMOVED AND REPLACED WITH APPROVED MATERIAL
PLACED IN ACCORDANCE WITH THE SPECIFICATIONS TO A MINIMUM COMPACTION OF
100% SHODD AND PLACED WITHIN 25% OF DMC

4. MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS UNO
ON PLAN

- 1. LIVE LOAD \geq 20 kPa
- 2. DEAD LOAD \geq 5 kPa
- 3. CONSTRUCTION TRAFFIC LIVE LOAD \geq 10 kPa

5. MINIMUM WALL EMBEDED AT THE TOE OF THE WALL TO BE 300mm MINIMUM UNLESS
NOTED OTHERWISE

6. DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.

7. TIED WALLS ARE TO BE TEMPORARILY PROPPED AT TOP UNTIL SUCH TIME THE TOP OF
THE WALL IS TIED TO THE SLAB AND THE FULL STRENGTH HAS BEEN ACHIEVED

8. CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 3000K STATE WEIGHT IS TO BE KEPT
BACK 15cm FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT
MATERIAL WITHIN THE STOP STRIP ADJACENT TO THE WALL SHALL BE ACHIEVED

9. LIGHT MECHANICAL TAMPERS (VIBRATING PLATE, TRENCH COMPACTOR OR SIMILAR) TO
GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL.

10. ALL DESIGN AND CONSTRUCT WALL SYSTEMS TO BE COMPLETED IN ACCORDANCE WITH
THESE NOTES.

ALL COMPONENTS AND INSTALLATION SHALL COMPLY WITH A54578 AND THE STANDARDS REFERRED TO THEREIN.

MINIMUM HEIGHT (H) TO GEORGION REINFORCEMENT LENGTH L10 TO B10

MINIMUM BEARING CAPACITY OF FOUNDATION BASED ON MINIMUM HULL RATIO OF 10 TO BE AS FOLLOWS:

- a. H MAX 2.0m = 100 kPa
- b. H MAX 1.5m = 150 kPa
- c. H MAX 5.0m = 200 kPa

BEFORE COMMENCEMENT OF CONSTRUCTION THE FOUNDATION SHALL BE INSPECTED AND APPROVED BY A QUALIFIED REGISTERED ENGINEER.

WHERE MINIMUM BEARING IS NOT ACHIEVABLE OR NOT MEETING DESIGN REQUIREMENT, THE FOUNDATION SHALL BE TO BE EXCAVATED AND REPLACED WITH APPROVED MATERIAL TO THE REQUIRED BEARING CAPACITY IN ACCORDANCE WITH REFERENCE TO A MINIMUM CAPACITY OF 10% SMOOD AND PLACED WITHIN 2% OF OMC

MINIMUM SURFACE DRAINAGE TO BE APPLIED AS FOLLOWS UNDO OR PLAN

- a. SLOPE = > 9%
- b. DEAD LOAD = 5 kPa
- c. CONSTRUCTIVE TRAFFIC LIVE LOAD = 10 kPa

THE GEORGRAS SHALL BE OF THE TYPE AND INDEX STRENGTH NOMINATED ON THE DRAWINGS. THE MINIMUM GEORGRAS SHALL BE A SINGLE LENGTH IN THE DIRECTION OF TENSION. TENSILE NOT LESS THAN 10% OF INDUSTRIAL ORIGIN. NON-EXPANSIVE. FREE FROM ORGANIC OR OTHER DELTERIOUS MATERIAL CONFORMING TO THE PHYSICAL AND ELECTROCHEMICAL LIMITS AS SPECIFIED AND SHALL NOT BE SUBJECT TO BREAKAWAY CONDITION. THE SELECT BACKFILL MATERIAL IS TO HAVE THE FOLLOWING PARAMETERS:

- a. MINIMUM INTERNAL FRICTION $\phi = 34^\circ$
- b. EMBODY COMPRESSIVE STRENGTH $\geq 100 \text{ kPa}$
- c. UNIT WEIGHT - 21 kN/m³
- d. PH BETWEEN 4 AND 9

SELECT BACKFILL IS TO BE PLACED AND COMPACTED IN LAYERS NOT MORE THAN 300mm (LOOSE). COMPACTION TO NOT LESS THAN 100% SMOOD WILL BE ACHIEVED AND MATERIAL PLACED WITHIN 2% OF OMC DENSITY TESTING SHALL BE PERFORMED IN EACH COMPACTED LAYER IN ACCORDANCE WITH

PROVIDE A DRAINAGE LAYER DIRECTLY BELOW THE FACING UNITS IN A MINIMUM 300MM U/L - 20mm AGGREGATE LAYER. FACING UNIT VOIDU TO BE FILLED WITH AGGREGATE TO 100% SMOOD MINIMUM. PROVIDE A DRAINAGE SOLK AT U/O OF WALL FACING AND CONNECT TO DRAINAGE SYSTEM AT 30m MAX SPACING.

THE NEED FOR A CHIMNEY CROWN OR DRAINAGE AT THE REAR OF THE MASS SOLL BLOCK WILL BE DETERMINED ON SITE BY THE ELECTRICAL ENGINEER.

PREPARATION OF THE FOUNDATION AND PRIOR TO CONSTRUCTION OF THE MASS SOLL BLOCK.

CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 500KG STATIC WEIGHT IS TO BE KEPT BACK 15m FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT FILL MATERIAL WITHIN THE 15m STOP ADJACENT TO THE WALL SHALL BE ACHIEVED BY LIGHT MEANS SUCH AS VIBRATING PLATE, TAMPER COMPACTOR OR SIMILAR TO GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL. ALL DESIGN AND CONSTRUCT WALL SYSTEM TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.

TWO TOP WALL HEIGHTS ARE NOTED TO ALIGN WITH FINISHED PAVEMENT HEIGHTS. THE CONTRACTOR SHALL ENSURE THAT THE WALLS ARE CONSTRUCTED TO THE CORRECT HEIGHTS TO ENSURE THAT ALL WALL STRAPS ARE INSTALLED BELOW THE DESIGN EARTHWORKS. SUBGRADE CONTRACTOR TO ALLOW FOR WALL STRIPS TO BE GRADED AWAY FROM THE FACE OF THE WALL OR OTHERWISE INSTALLED TO SUIT EARTHWORKS DESIGN LEVELS AND GRADES.

DIFFERENTIAL SETTLEMENT NOTE.

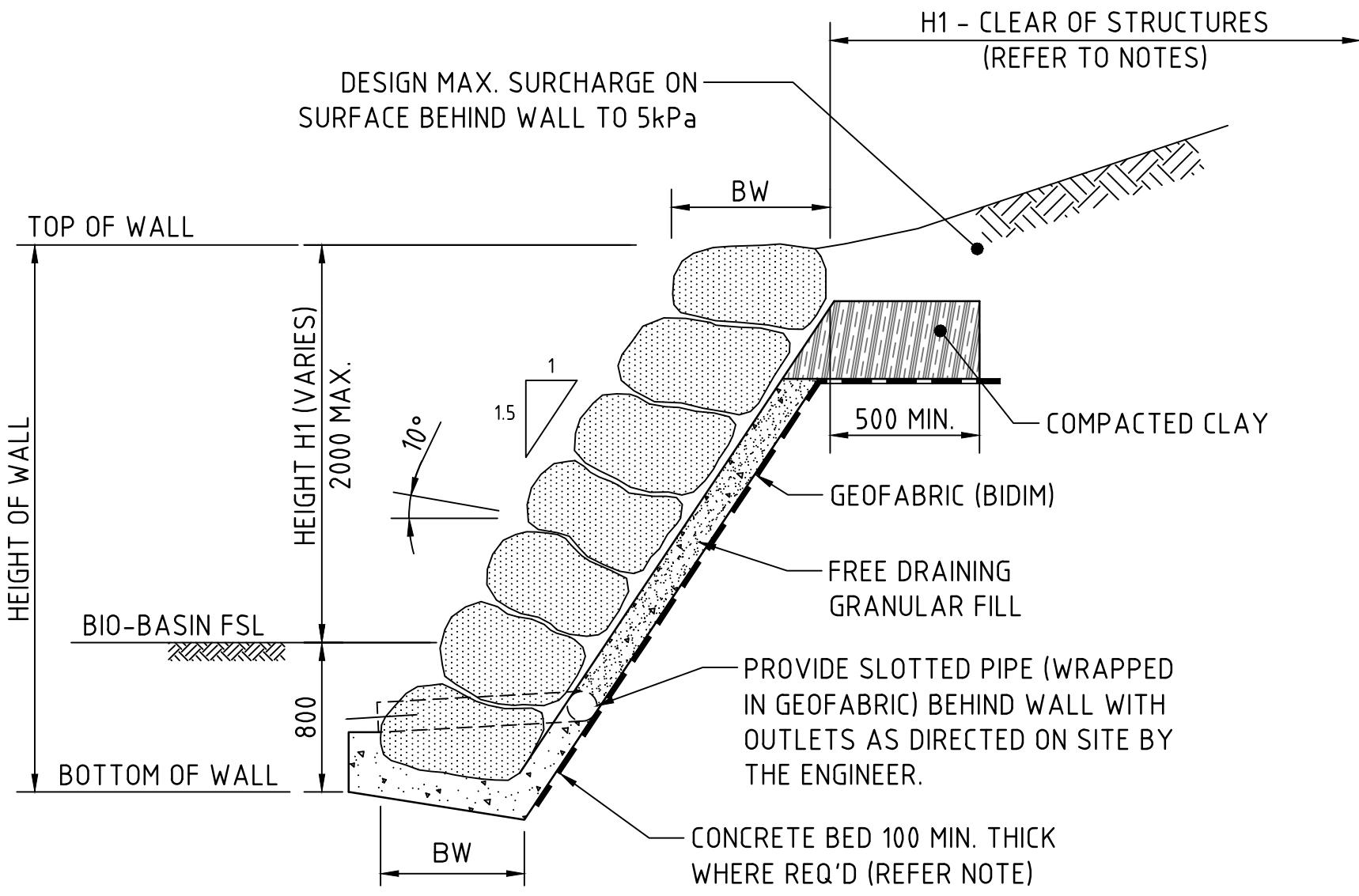
BEFORE BUILDING AND AFTER COMPLETION OF CONSIDER DIFFERENTIAL SETTLEMENT OF REINFORCED EARTH WALL BACK AND GENERAL FILL AREAS. PARTICULAR ATTENTION TO BE DRAWN TO HEAVILY LOADED AREAS, OR DEFERRING LOADED AREAS INCLUDING SIDEWALKS, PARK AND DRIVEWAYS. WHERE DIFFERENTIAL SETTLEMENTS OCCUR IN OVERALL WALL HEIGHT OR FILL AMOUNTS ARE EXPERIENCED IT IS THE RESPONSIBILITY OF THE FUTURE DESIGNERS TO ENSURE APPROPRIATE DESIGN CONSIDERATION TO DIFFERENTIAL SETTLEMENTS ARE MADE TO PREVENT DAMAGE TO THE WALL AND INTERACTION WITH RETAINED ELEMENTS AND GENERAL FILL MATERIAL.

1. SCOPE OF WORKS TO BE UNDERTAKEN AS PART OF SWC-1 APPROVAL TO BE AS PER BURTONS SCOPE.
2. DOCUMENT REF "430_ALP_BEW MOVEMENT PLAN (BEWMP) AS AGREED WITH BRS. WORKS NOT DESCRIBED BY THIS DOCUMENT SUBJECT TO FUTURE WORKS APPROVALS.



BARKER
RYAN
STEWART

[illegible]



RETAINING WALL
(BIO-RETENTION BASIN BOULDER RETAINING WALL)
SCALE 1:20

BOULDER RETAINING WALL NOTES

MINIMUM BEARING CAPACITY OF FOUNDATION TO BE 100kPa ASSUMING THE FOLLOWING:
- CLAY FOUNDATION $C_u=50kPa$, $\phi_u=0$

SLIDING STABILITY IS BASED ON THE FOLLOWING:
- FRICTION ANGLE OF BOULDER WALL: NOT LESS THAN 40°
- EFFECTIVE FRICTION ANGLE OF SOIL SUBGRADE: NOT LESS THAN 30° FOR SOIL OR 35° FOR ROCK

SOIL AND ROCK DESIGN PARAMETERS SHALL BE CONFIRMED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF BOULDERS OR CONCRETE BED

BOULDERS TO BE A NOMINAL 750mm DIA. (600mm DIA. UP TO 800mm DIA.) PLACED ON THEIR BROADEST BASE. BOULDERS TO BE PLACED IN AN INTERLOCKING ARRANGEMENT ON THE CONTACT SURFACES DIPPING TOWARDS BACK OF THE WALL AT 10° AND SHALL BE INSPECTED BY THE ENGINEER DURING CONSTRUCTION

DENSITY OF INDIVIDUAL BOULDERS SHALL BE MINIMUM 2.5 TONNES/m³

FOR WALLS ABOVE 1000mm IN HEIGHT, THE FIRST LAYER OF BOULDERS ARE TO SET IN A BED OF 150mm CONCRETE AND THE JOINTS BETWEEN SHALL BE FILLED WITH CONCRETE TO A LEVEL EQUAL TO THE SURFACE LEVEL OF THE TOE OF THE WALL

NO STRUCTURE TO BE BUILT WITHIN H1 FROM THE BACK OF THE TOP OF THE WALL (WHERE H1=HEIGHT OF WALL) UNLESS THE STRUCTURE IS FOUNDED ON ROCK WITH $SBV=150kPa$

CONSTRUCTION METHODS AND SEQUENCE TO ENSURE THAT DESIGN MAX. SURCHARGE OF 5kPa IS NOT EXCEEDED

CONSTRUCTION TO BE IN ACCORDANCE WITH AS 4678:2002

WALL DIMENSIONS	
HEIGHT H1	BW
500	500
1000	700
1500	800
2000	900

BOULDER WALL DOES NOT FORM PART OF SUBDIVISION WORKS CERTIFICATE

RETAINING WALL NOTES:

- ALL COMPONENTS AND INSTALLATION SHALL COMPLY WITH AS4678 AND THE STANDARDS REFERRED TO THEREIN.
- MINIMUM BEARING CAPACITY OF FOUNDATION TO BE AS FOLLOWS:
 - H MAX. 2.0m = 100 kPa
 - H MAX. 3.5m = 150 kPa
 - H MAX. 5.0m = 200 kPaBEFORE COMMENCEMENT OF CONSTRUCTION THE FOUNDATION SHALL BE INSPECTED AND VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER.
- WHERE MINIMUM BEARING IS NOT ACHIEVABLE OR NOT MEETING DESIGN REQUIREMENT, THE FOUNDATION MATERIAL IS TO BE EXCAVATED AND REPLACED WITH APPROVED MATERIAL PLACED IN ACCORDANCE WITH THE FILLING SPECIFICATION TO A MINIMUM COMPACTION OF 100% SMD AND PLACED WITHIN 2% OF OMC.
- MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS UNO.
 - LIVE LOAD = 20 kPa
 - DEAD LOAD = 5 kPa
 - CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
- MINIMUM WALL EMBEDMENT AT THE TOE OF THE WALL TO BE 300mm MINIMUM UNLESS NOTED OTHERWISE.
- DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
- TIED WALLS ARE TO BE TEMPORARILY PROPPED AT TOP UNTIL SUCH TIME THE TOP OF WALL IS TIED TO THE SLAB AND 28-DAY CONCRETE STRENGTH HAS BEEN ACHIEVED.
- CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 500KG STATIC WEIGHT IS TO BE KEPT BACK 1.5m FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT FILL MATERIAL WITHIN THE 1.5m STRIP ADJACENT TO THE WALL SHALL BE ACHIEVED BY LIGHT MECHANICAL TAMPERS (VIBRATING PLATE, TRENCH COMPACTOR OR SIMILAR) TO GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL.
- ALL DESIGN AND CONSTRUCT WALL SYSTEMS TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.

NOTE:

- SCOPE OF WORKS TO BE UNDERTAKEN AS PART OF SWC-1 APPROVAL TO BE AS PER BURTONS SCOPE
- DOCUMENT REF "430_ALP_BEW MOVEMENT PLAN (BEWMP) AS AGREED WITH BRS. WORKS NOT DESCRIBED BY THIS DOCUMENT SUBJECT TO FUTURE WORKS APPROVALS.

Subdivision Works Certificate

Certificate Number: 210204SW01

Issuing Officer: Christopher Borg

Registration Number: BDC3330

These plans/specifications form part of the certificate issued: 04/10/2024



200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT A0 SIZE SHEET

FOR SWC-1

AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE
ISSUED FOR SWC-1	13.09.24	2			
ISSUED FOR CONSTRUCTION	03.09.24	1			
ISSUED FOR CONSTRUCTION	28.05.24	0			
ISSUED FOR PRELIMINARY ONLY	20.05.24	A			

PROJECT MANAGER



ARCHITECT



CLIENT



PROJECT

ACCESS LOGISTICS PARK
884-928 MAMRE ROAD
KEMPS CREEK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF.
DW	JB	MAR 24	MW	A0	AS SHOWN	C01402105-C 651



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DRAWING TITLE
RETAINING WALL DETAILS
SHEET 2

DRAWING No: C014021.05-C651

ISSUE
2

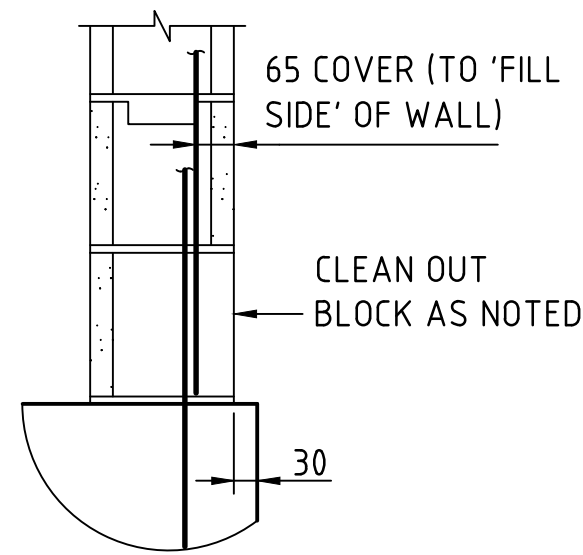
Subdivision Works Certificate

Certificate Number: 210204SW01

Issuing Officer: Christopher Borg

Registration Number: BDC3330

These plans/specifications form part of the certificate issued: 04/10/2024

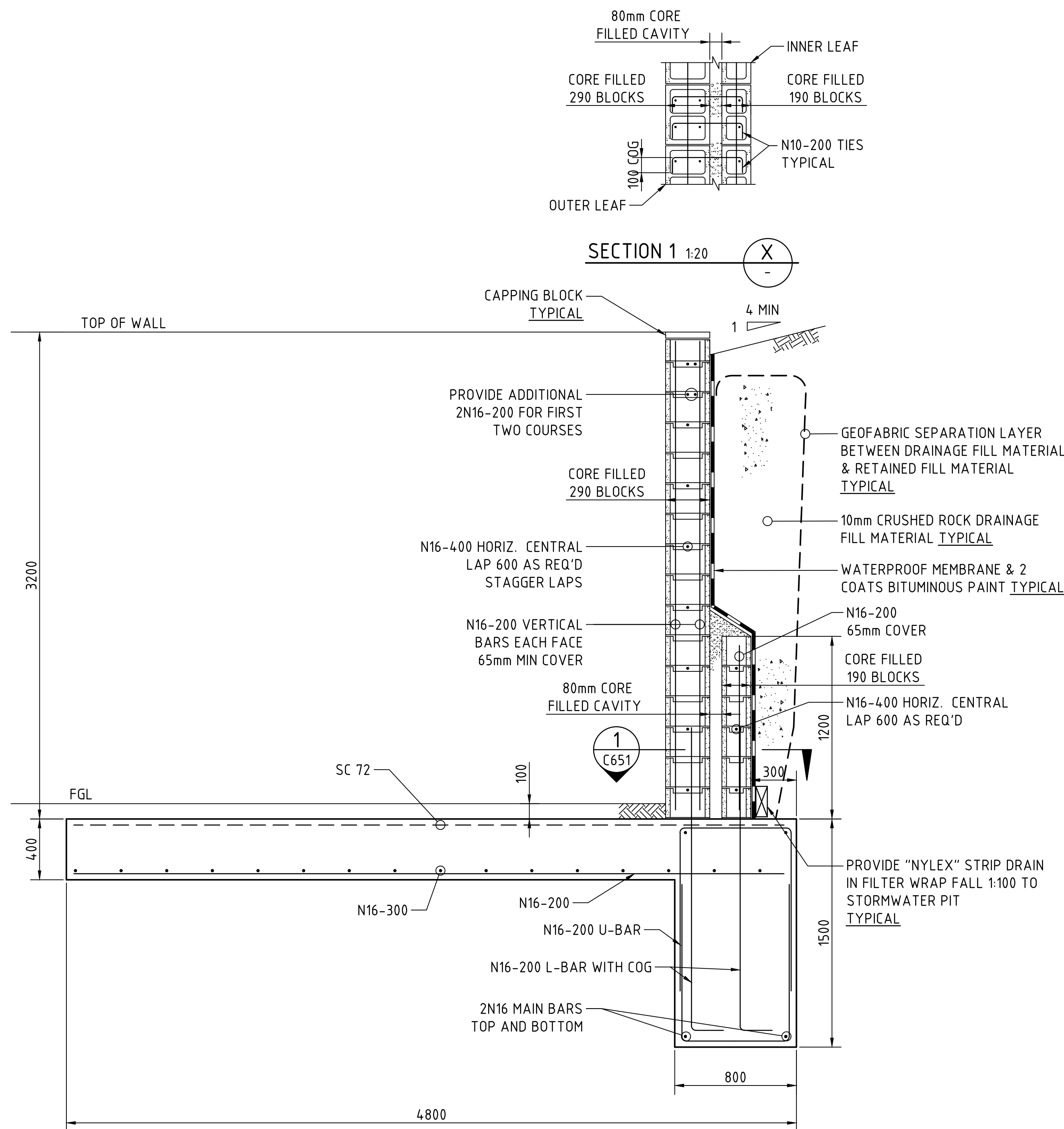


WALL VERTICAL REINFT DETAIL
TYPICAL
NOT TO SCALE

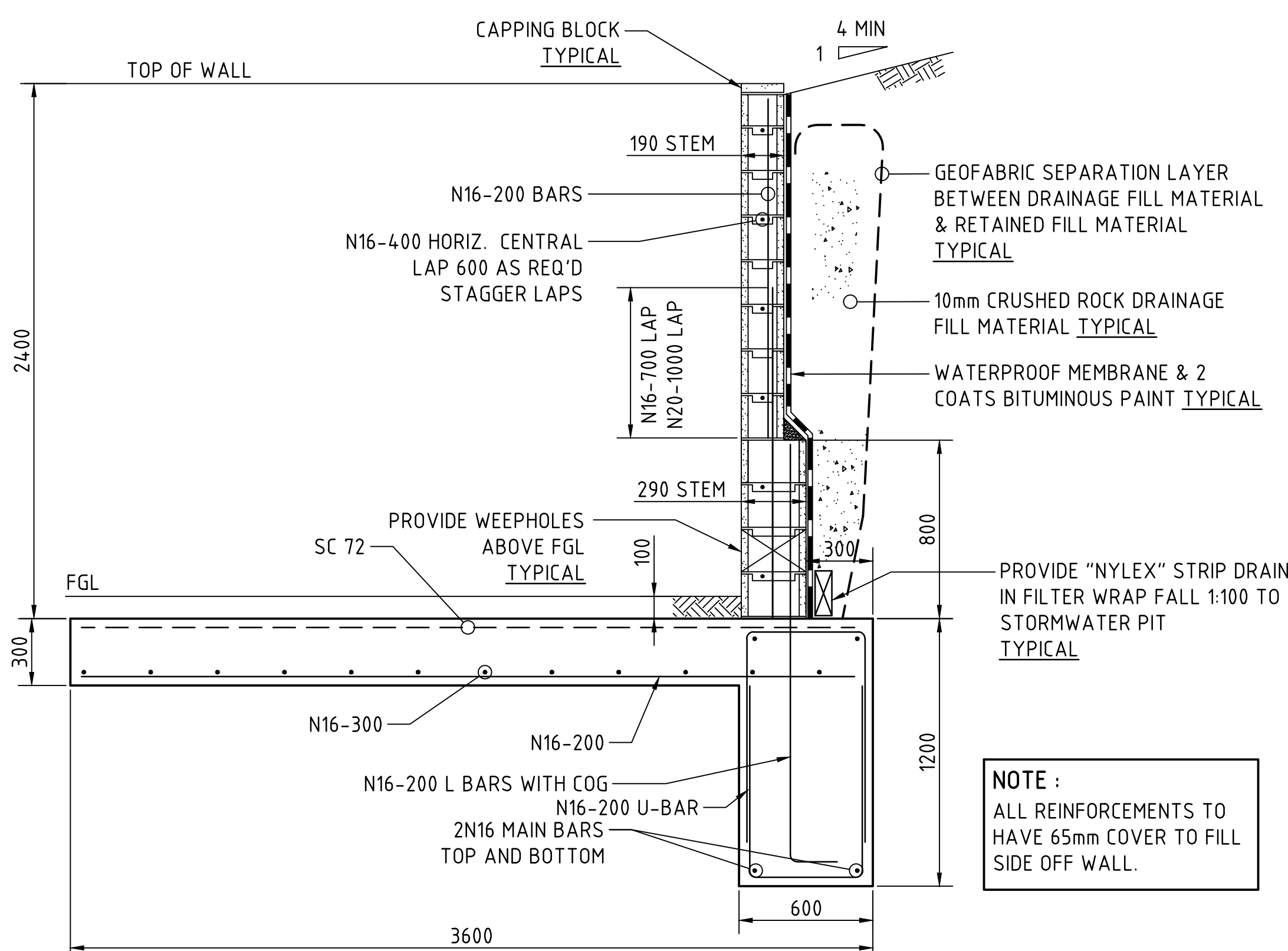
NOTE :
ALL BLOCK CORES TO BE FULLY GROUTED.
NOTES SHOWN ARE TYPICAL FOR ALL WALLS.
ALL BASE KEYS TO BE POURED AGAINST UNDISTURBED NATURAL GROUND.

NOTE:
COVER TO ALL BASE REINFORCEMENT TO BE MINIMUM 50mm

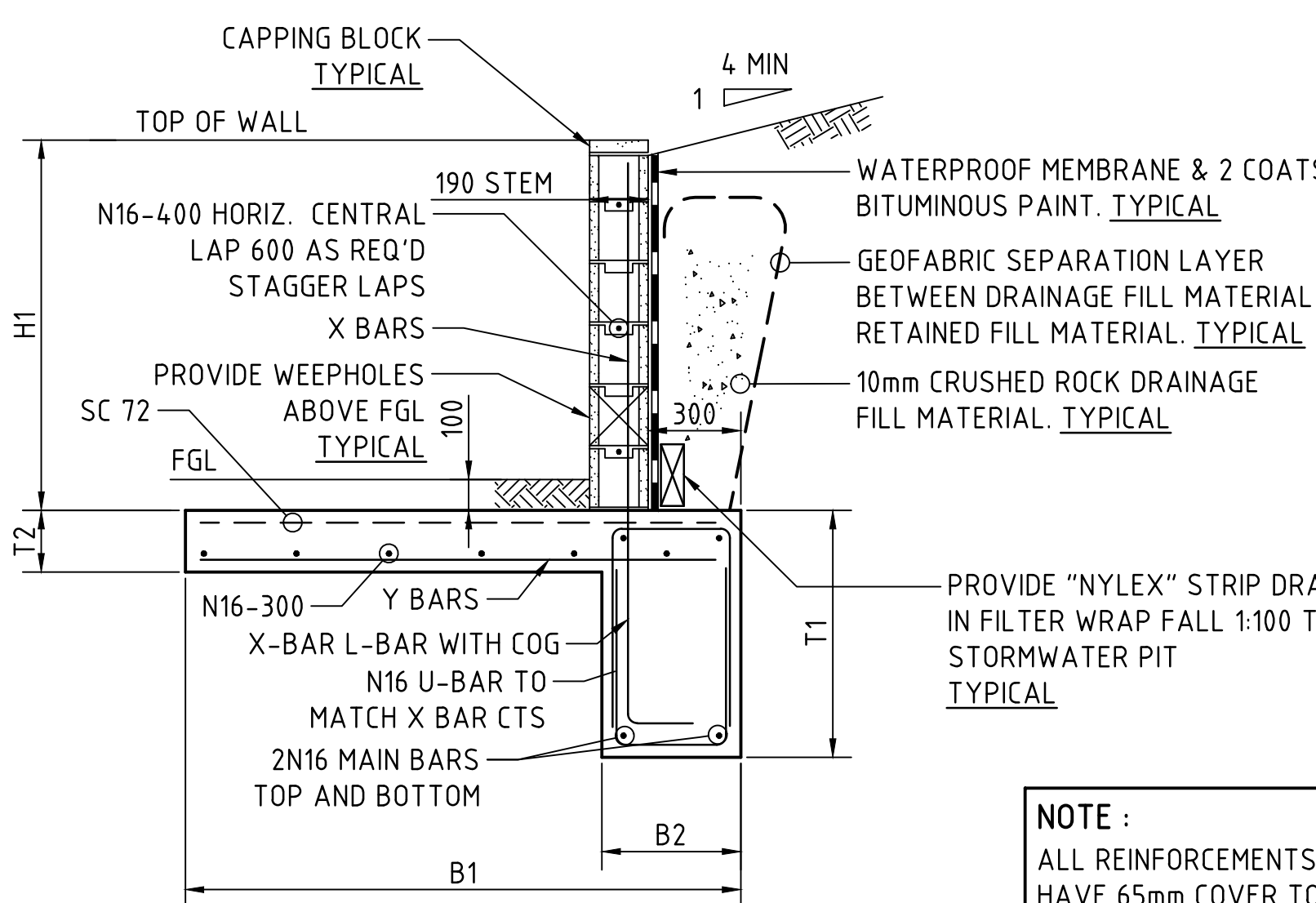
CONCRETE QUALITY					
ELEMENT	SUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F _{ck} (MPa)
CORE FILL	230	10	GP	NIL	20
FOOTING	80	20	GP	NIL	32



RETAINING WALL 3A - 3.2m HIGH
SCALE 1:20



RETAINING WALL 3A - 2.4m HIGH
SCALE 1:20



RETAINING WALL 3A - 1.2m HIGH MAX.
SCALE 1:20

RETAINING WALL TYPE 1 SPECIFICATIONS 20kPa					
RETAINED HEIGHT	BASE WIDTH	BASE BEAM HEIGHT	BASE KEY DEPTH	REINFT. X BARS	REINFT. Y BARS
1200	1800	800	200	N16-200	N16-200
600	900	500	200	N16-400	N16-400

CONCRETE NOTES:

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARYED BY THE CONTRACT DOCUMENTS.
- READY-MIX CONCRETE SUPPLY SHALL COMPLY WITH AS 1379.
- CONCRETE QUALITY
ALL THE REQUIREMENTS OF THE ASCE SPECIFICATION DOCUMENT 1 EDITION (G) SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE AS 1379.
- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
- CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE.

ELEMENT	STRENGTH (MPa)	SUMP	MAX AGG. SIZE	CEMENT TYPE
A18A2	25	50mm	30mm	20mm(A1)
B1	32	60mm	40mm	-
B2	40	65mm	45mm	-

COVER REQUIREMENTS MAY NEED TO BE INCREASED TO SUIT FIRE RATING. EXPOSURE CLASSIFICATION SHALL BE AS INDICATED ON THE DRAWING.

EXPOSURE CLASSIFICATION TO AS 3600	MINIMUM CEMENT CONTENT	MAXIMUM W/C RATIO
A18A2	-	0.56
B1	320	0.56
B2	390	0.46
C	450	0.40

- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT 1 METRE CENTRES MAXIMUM BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS. USE PLASTIC CHAIRS IN EXPOSURE CONDITION GREATER THAN B1.
- CONCRETE SIZES DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
- DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
- REFER TO ARCHITECT'S DETAILS, FOR CHAMFERS, DRIP GROOVES, REGLES, ETC., MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS.
- NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- USE ALIPHATIC ALCOHOLS SPRAYED OVER THE SURFACE PRIOR TO AND AFTER FINISHING TO REDUCE RATE OF EVAPORATION FROM THE SURFACE AND HELP CONTROL PLASTIC SHRINKAGE CRACKING. NOTE THAT THE USE OF ALIPHATIC ALCOHOLS IS NOT A SUBSTITUTE FOR CURING.
- COMMENCE CURING OPERATIONS PROMPTLY AFTER SURFACE FINISHING IS COMPLETE. CURING COMPOUNDS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS AND ARE TO BE CHECKED FOR COMPATIBILITY WITH PROPOSED FLOOR FINISHES. SOME COMPOUNDS MAY REQUIRE REMOVAL FOR GLED DOWN FLOOR COVERINGS OR WET CURING AS DESCRIBED BELOW.
- CONCRETE IS TO BE CURED BY KEEPING THE SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTING THE LOSS OF MOISTURE FOR A FURTHER 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT.
- PROPPING WHEN SUPPORTS CONSTRUCTION OVER IS TO BE LEFT IN PLACE AS REQUIRED TO AVOID OVER STRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.
- THE ENGINEER SHALL BE GIVEN 24 HOURS NOTICE FOR REINFORCEMENT INSPECTIONS AND CONCRETE SHALL NOT BE DELIVERED UNTIL ENGINEERS APPROVAL IS OBTAINED.
- CONDUITS, PIPES ETC. SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS OF THE CONDUIT, PIPES ETC. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO REINFORCEMENT.
- REINFORCEMENT SYMBOLS:
R DENOTES DEFORMED GRADE 500 NORMAL DUCTILITY CLASS BARS TO AS 4671
P DENOTES PLAN ROUND GRADE 350 NORMAL DUCTILITY CLASS BARS TO AS 4671
RL DENOTES RECTANGULAR MESH GRADE 500 LOW DUCTILITY CLASS TO AS 4671
SL DENOTES SQUARE MESH GRADE 500 LOW DUCTILITY CLASS TO AS 4671
TM DENOTES TRENCH MESH GRADE 500 LOW DUCTILITY CLASS TO AS 4671
THE MEMBER IMMEDIATELY FOLLOWING THE BAR GRADE SYMBOL REPRESENTS THE NOMINAL BAR DIAMETER IN MILLIMETERS. THE FIGURES FOLLOWING THE FABRIC SYMBOL SL & RL IS THE REFERENCE NUMBER FOR ABRIC TO AS 4671.
- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

CONCRETE NOTES (CONTINUED):

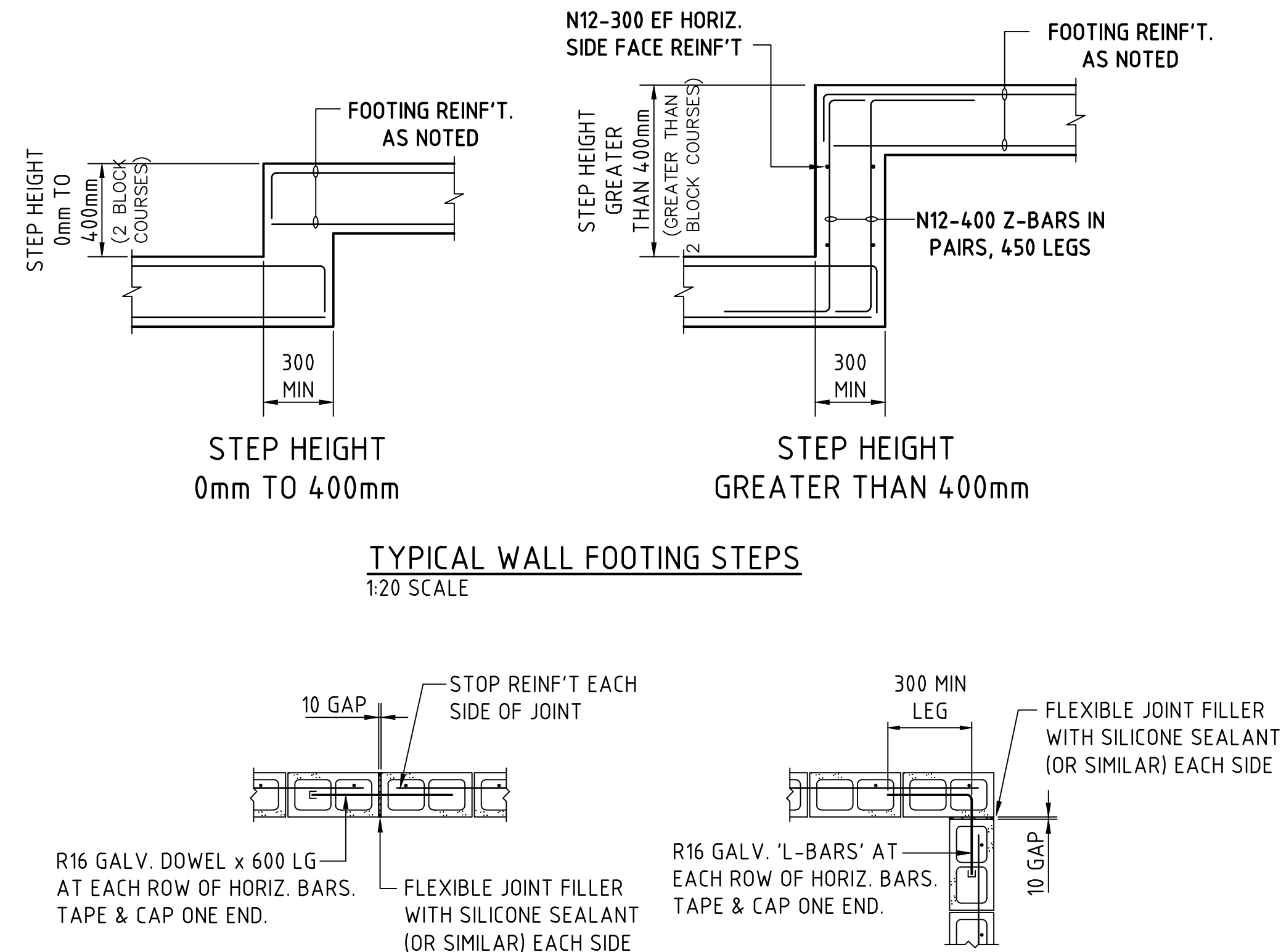
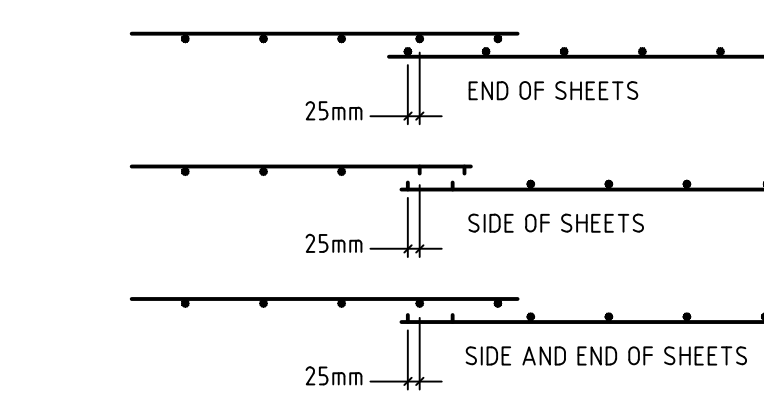
- SLAB REINFORCEMENT SHALL EXTEND AT LEAST 65mm ONTO MASONRY SUPPORT WALLS AND 50 PERCENT OF THE BOTTOM REINFORCEMENT SHALL BE DOGGED TO ACHIEVE ANCHORAGE AT SIMPLY SUPPORTED ENDS.
- SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS 3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.
- WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 SPLICED WHERE NECESSARY AND LAPPED 500mm WITH MAIN BARS.
- UPWARD CAMBER TO FORMWORK OF REINFORCED CONCRETE CANTILEVERS SHALL BE L/120, WHERE L IS THE PROJECTION BEYOND FACE OF COLUMN OR WALL. CAMBER TO SUSPENDED SLABS AND BEAMS SHALL BE 5 FOR EVERY 2500 OF SPAN. MAINTAIN THE SLAB AND BEAM DEPTHS SHOWN.
- SLABS AND BEAMS SHALL BE CONSTRUCTED TO BEAR ONLY ON THE BEAMS, WALLS, COLUMNS, ETC SHOWN ON THE DRAWINGS. TOPS OF LOAD BEARING MASONRY WALLS ARE TO BE TROWELED SMOOTH AND 2 LAYERS OF ALCO PROVIDED BETWEEN WALL AND SLAB. ALL OTHER BUILDING ELEMENTS SHALL BE KEPT 15mm MINIMUM CLEAR FROM SOFFITS OF THE STRUCTURE.
- FORMWORK STRIPPING TIMES: RECOMMENDED MINIMUM STRIPPING TIMES IN THE ABSENCE OF CALCULATION AND STRENGTH TESTING SHALL BE:

MEMBER TYPE	MEMBER	+ EFFECTIVE SPAN (m)	MINIMUM STRIPPING TIME (DAYS) FOR AVERAGE AIR TEMPERATURE DURING PERIOD PRIOR TO STRIPPING			
			20° AND OVER	10° TO 20°	5° TO 10°	UNDER 5°
VERTICAL UNLOADED	WALL, COLUMN, BEAM SIDE	0	2	3	5	7
VERTICAL LOAD BEARING	WALL, COLUMN, OR LOAD BEARING STRUCTURE	0	5	6	7	9
HORIZONTAL	SLAB	UNDER 3	7	10	14	21
		3 - 6	10	14	21	28
HORIZONTAL	BEAM	UNDER 3	10	14	21	28
		3 - 6	14	21	28	28
		OVER 6	21	28	28	28

- STANDARD LAP AND COG LENGTHS UNLESS NOTED OTHERWISE ON DRAWINGS.

BAR DIAMETER	MIN LAP LENGTH (mm)	MIN COG LENGTH (mm)
N12	500	180
N16	750	210
N20	1000	240
N24	1375	310
N28	1560	360
N32	1810	400

- MINIMUM MESH LAPS



VERTICAL JOINT DETAIL
PROVIDE VERTICAL JOINTS IN BLOCKWORK 8.0M MAX. CENTRES

RETAINING WALL BLOCKWORK JOINTING DETAILS
SCALE 1:20

RETAINING WALL NOTES:

- ALL COMPONENTS AND INSTALLATION SHALL COMPLY WITH AS4678 AND THE STANDARDS REFERRED TO THEREIN.
- MINIMUM BEARING CAPACITY OF FOUNDATION TO BE AS FOLLOWS:
a. H MAX. 2.0m = 100 kPa
b. H MAX. 3.5m = 150 kPa
c. H MAX. 5.0m = 200 kPa
BEFORE COMMENCEMENT OF CONSTRUCTION THE FOUNDATION SHALL BE INSPECTED AND VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER.
- WHERE MINIMUM BEARING IS NOT ACHIEVABLE OR NOT MEETING DESIGN REQUIREMENT, THE FOUNDATION MATERIAL IS TO BE EXCAVATED AND REPLACED WITH APPROVED MATERIAL PLACED IN ACCORDANCE WITH THE FILLING SPECIFICATION TO A MINIMUM COMPACTION OF 90% SHOD AND PLACED WITHIN 2% OF DMC.
- MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS UNDO ON PLAN:
a. LIVE LOAD = 20 kPa
b. DEAD LOAD = 5 kPa
c. CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
- MINIMUM WALL EMBEDEDMENT AT THE TOP OF THE WALL TO BE 500mm MINIMUM UNLESS NOTED OTHERWISE.
- DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
- TIED WALLS ARE TO BE TEMPORARILY PROPPED AT TOP UNTIL SUCH TIME THE TOP OF WALL IS TIED TO THE SLAB AND 28-DAY CONCRETE STRENGTH HAS BEEN ACHIEVED.
- CONSTRUCTION EQUIPMENT WEIGHING MORE THAN 500kg STATIC WEIGHT IS TO BE KEPT BACK 15m FROM THE REAR FACE OF THE WALL FACING UNITS. COMPACTION OF THE SELECT FILL MATERIAL WITHIN THE 15m STRIP ADJACENT TO THE WALL SHALL BE ACHIEVED BY LIGHT MECHANICAL TAMPERS (VIBRATING PLATE, TRENCH COMPACTOR OR SIMILAR) TO GIVE THE SAME DENSITY AS IN THE REMAINDER OF THE SELECT FILL.
- ALL DESIGN AND CONSTRUCT WALL SYSTEMS TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.

MASONRY BLOCKWORK

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3700.
- STRENGTH OF BRICKS, CLASS OF BLOCKS AND TYPE OF MORTAR SHALL BE AS LISTED BELOW:
MATERIAL: CHARACTERISTIC UNCOMBED COMPRESSIVE STRENGTH, F_{ck}
MORTAR: CHARACTERISTIC COMPRESSIVE STRENGTH, F_{ck}
- CONCRETE BLOCKS 15 MPa M3
- MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT.
- ALL MASONRY WALLS AND PIERS SUPPORTING SLABS AND BEAMS SHALL HAVE A PRE-GREASED GALVANISED STEEL SLIP JOINT BETWEEN CONCRETE SOFFIT AND THE TOP OF OF THE MASONRY ELEMENT UNDO.
- ALL MASONRY SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ALL CONTROL JOINTS IN THE CONCRETE.
- NON LOAD BEARING WALLS SHALL BE SEPARATED FROM CONCRETE ABOVE BY A 12mm THICK CLOSED CELL POLYETHYLENE STRIP.
- NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING MASONRY WITHOUT THE APPROVAL OF THE ENGINEER.
- PROVIDE CLEANOUT HOLES AT BASE OF ALL WALLS. ROD CORE HOLES TO REMOVE PROTRUDING MORTAR FOLLOWING APPROVAL FROM THE ENGINEER.
- CONCRETE FILLING GROUT TO HAVE A CHARACTERISTIC STRENGTH OF 20 MPa, 10mm AGGREGATE, 230mm SLUMP. GROUT FILL ALL BLOCK CORES.
- PROVIDE 65mm COVER TO REINFORCING BARS FROM THE OUTSIDE FACE OF THE BLOCKWORK IF REINFORCEMENT IS NOT TO BE PLACED CENTRALLY.
- PROVIDE VERTICAL CONTROL JOINTS AT 10 METRE MAX CENTRES, AND AT 5 METRE MAXIMUM FROM CORNERS IN ALL BRICKWORK WALLS.
- PROVIDE VERTICAL CONTROL JOINTS AT 8 METRE MAX CENTRES, AND AT 4 METRE MAXIMUM FROM CORNERS IN ALL CONCRETE BLOCK WALLS.
- BACKFILL TO RETAINING WALLS TO BE FREE DRAINING GRANULAR MATERIAL UNDO. PROVIDE SUBSOIL DRAIN BEHIND WEEP HOLES.
- DO NOT CONSTRUCT MASONRY WALLS ON SUSPENDED CONCRETE UNTIL SLAB HAS BEEN STRIPPED AND DE-PROPPED.
- ALL CAVITY CONSTRUCTION TO HAVE GALVANISED OR STAINLESS STEEL WALL TIES INSTALLED AS PER AS 3700.

REINFORCEMENT

- ALL REINFORCEMENT BARS ARE TO BE D5000 UNDO.
- ALL REINFORCEMENT WELDED MESHES TO BE GRADE 500 UNDO.
- WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.

REINFORCEMENT PLACEMENT DETAIL

NOTE:
ATTENTION IS DRAWN TO THE FACT THAT DUE TO THE NATURE OF CONCRETE, CRACKING OF A NON-STRUCTURAL NATURE MAY OCCUR. REINFORCEMENT HAS BEEN ADDED TO THE SLABS TO MITIGATE THE EXTENT OF CRACKING, HOWEVER IT IS NOT POSSIBLE TO GUARANTEE COMPLETE ELIMINATION OF SLAB CRACKING.

NOTE:

- SCOPE OF WORKS TO BE UNDERTAKEN AS PART OF SWC-1 APPROVAL TO BE AS PER BURTONS SCOPE.
- DOCUMENT REF "430_ALP_BEV MOVEMENT PLAN (BEVMP) AS AGREED WITH BRS. WORKS NOT DESCRIBED BY THIS DOCUMENT SUBJECT TO FUTURE WORKS APPROVALS.

NOTE:
SCOPE OF WORKS TO BE UNDERTAKEN AS PART OF SWC-1 APPROVAL TO BE AS PER BURTONS SCOPE.

FOR SWC-1

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT A0 SIZE SHEET

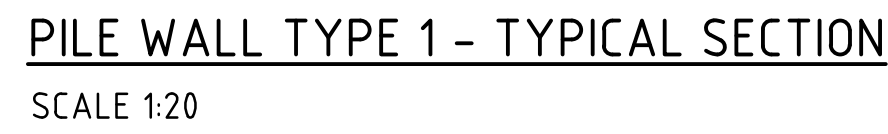
ISSUED FOR SWC-1	DATE	ISSUE	AMENDMENTS
ISSUED FOR SWC-1	13.09.24	3	
REVISED AS CLOUDED	03.09.24	2	
REVISED AS CLOUDED	28.05.24	1	
ISSUED FOR CONSTRUCTION	21.05.24	0	
AMENDMENTS	DATE	ISSUE	AMENDMENTS

1. SCOPE OF WORKS TO BE UNDERTAKEN AS PART OF SWC-1 APPROVAL TO BE AS PER BURTONS SCOPE.
2. DOCUMENT REF "430_ALP_BEW MOVEMENT PLAN (BEWMP) AS AGREED WITH BRS. WORKS NOT DESCRIBED BY THIS DOCUMENT SUBJECT TO FUTURE WORKS APPROVALS.

Certificate Number: 210204SW01

[Signature]

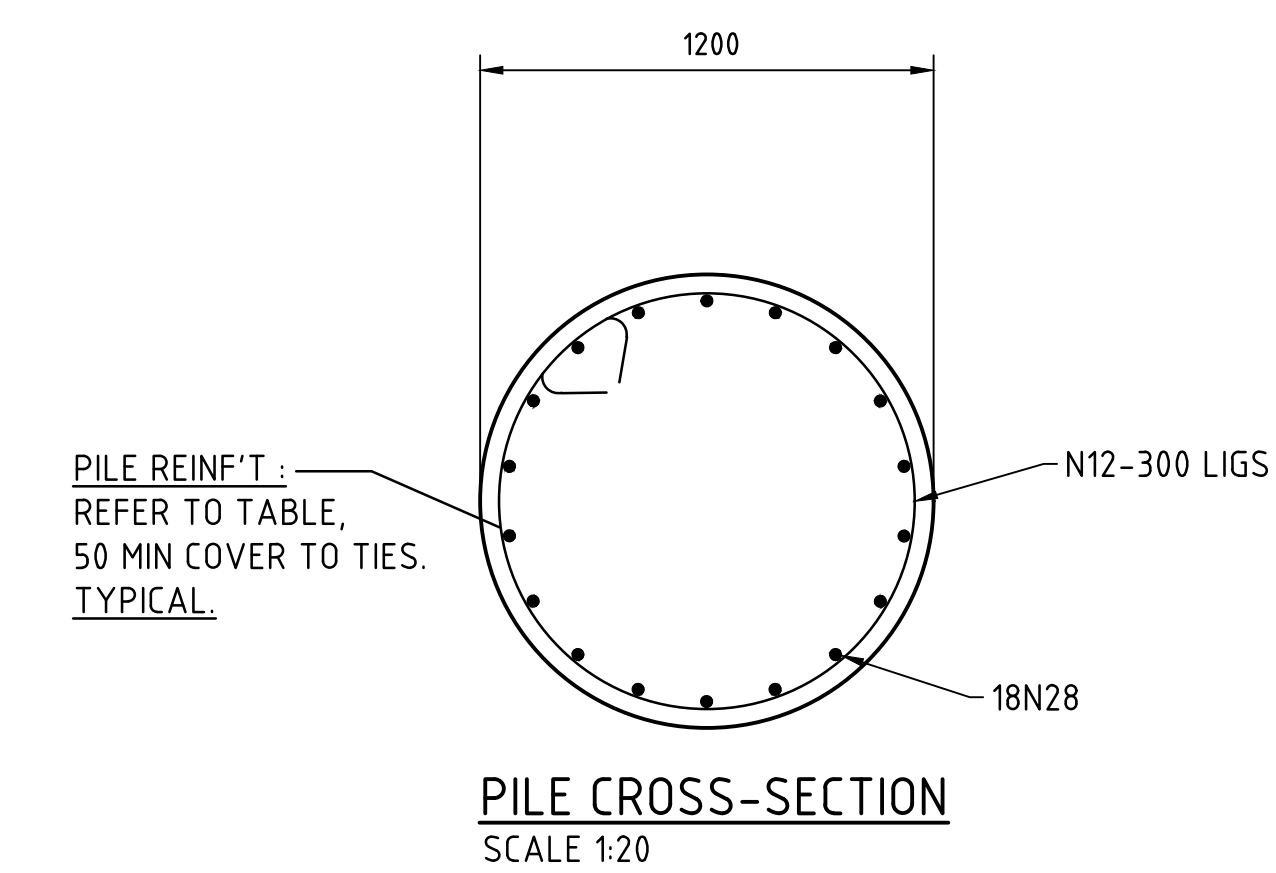
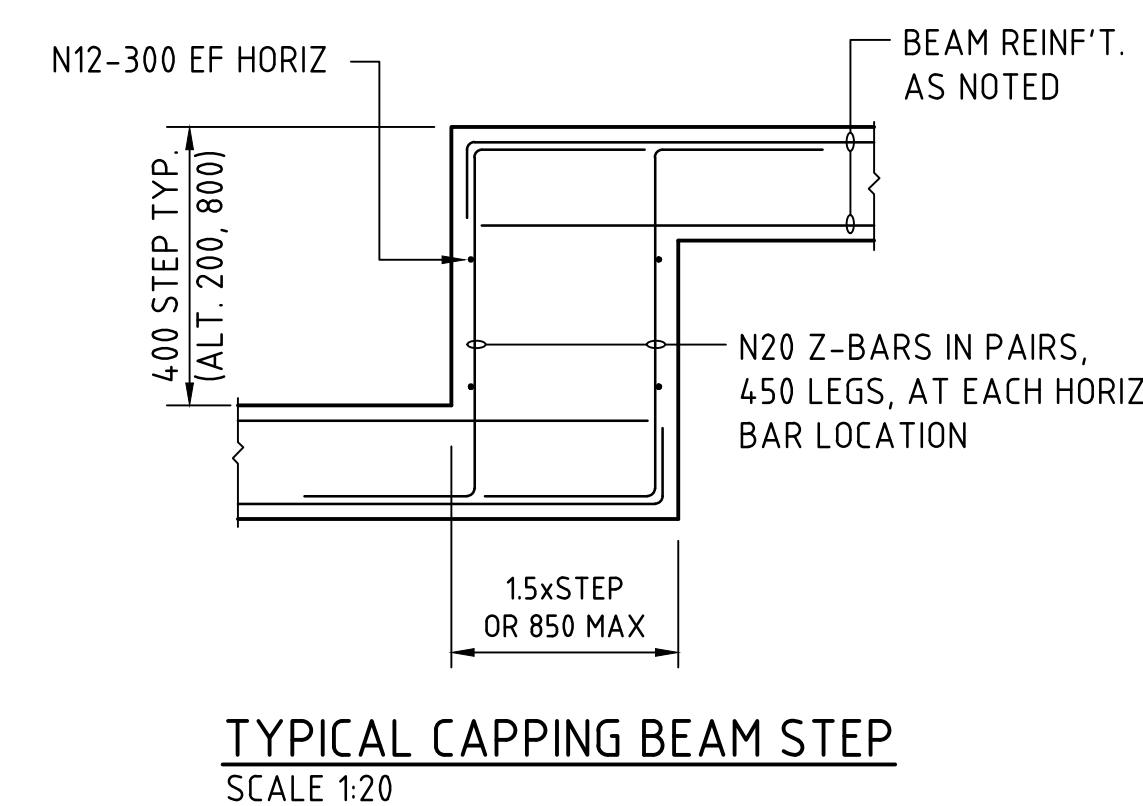
These plans/specifications form part
of the certificate issued: 04/10/2024



PILE WALL TYPE	MAX. HEIGHT "H" (m)	PILE DIA. (mm)	PILE SPACING (mm)	MIN SOCKET # DEPTH "S" (m)	PILE REINFORCEMENT.	SUPERIMPOSED LIVE LOAD
1	9.4	1200	1250	7.4 *	18N28 + N12-300 LIGS	5 kPa

Diagram illustrating the Pile Capping Beam Detail. The beam has a width of 500 and a length of 1300. Reinforcement includes 7N24 TOP & BTM BARS, 2N24 CENTRAL BARS, and N10-300 TIES. The top and bottom bars have 1300 LAPS STAGGERED. The central bars have 1300 LAPS STAGGERED. The ties are spaced at 300. The beam is shown with a 50 COVER.

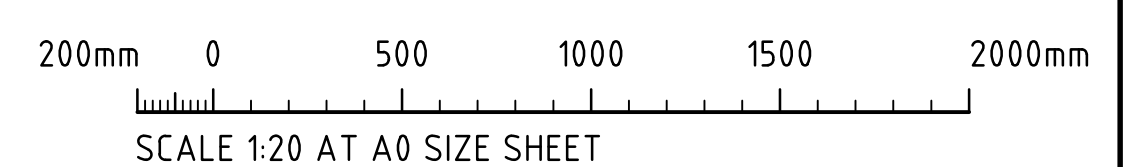
PILE CAPPING BEAM DETAIL
SCALE 1:20



CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F _c (MPa)
PILES	80	20	SL	NIL	32
SHOT CRETE	230	10	SL	NIL	32

PILE WALL DETAILS

NOTE: FURTHER GEOTECHNICAL INFORMATION REQUIRED PRIOR TO CONSTRUCTION TO VERIFY ASSUMPTIONS ON DESIGN.



FOR SWC-1

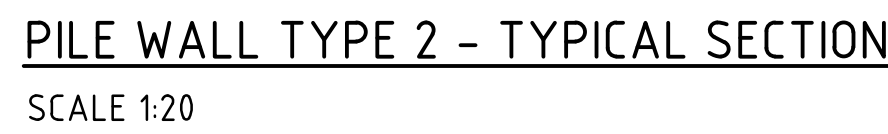
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1. SCOPE OF WORKS TO BE UNDERTAKEN AS PART OF SWC-1 APPROVAL TO BE AS PER BURTONS SCOPE.
2. DOCUMENT REF "430_ALP_BEW MOVEMENT PLAN (BEWMP) AS AGREED WITH BRS. WORKS NOT DESCRIBED BY THIS DOCUMENT SUBJECT TO FUTURE WORKS APPROVALS.

Certificate Number: 210204SW01

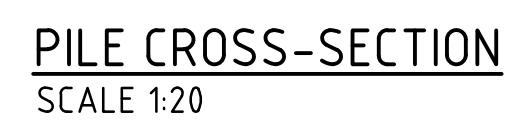
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of the certificate issued: 04/10/2024



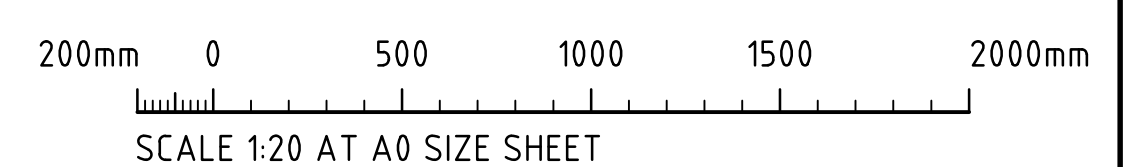
PILE TYPE	MAX. HEIGHT "H"(m)	PILE DIA. (mm)	PILE SPACING (mm)	MIN SOCKET # DEPTH "S" (m)	PILE REINFORCEMENT.	SUPERIMPOSED LIVE LOAD
2	5	900	1800	6.3*	12N28 + N12 - 300 LIGS	5 kPa

5N24 TOP & BTM BARS.
HORIZONTAL.
1300 LAPS STAGGERED.



CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
PILES	80	20	SL	NIL	32
SHOT CRETE	230	10	SL	NIL	32

NOTE: FURTHER GEOTECHNICAL INFORMATION REQUIRED PRIOR TO CONSTRUCTION TO VERIFY ASSUMPTIONS ON DESIGN.



FOR SWC-1

[illegible]

54
DP 259135

CONTRACTOR TO CARRY OUT DEMOLITION IN LINE WITH HAZARDOUS
BUILDING MATERIALS ASSESSMENT BY PRENSA AND AS2601-2001

28
DP 255560

27
DP 255560

PT 51
DP 259135

MAMRE ROAD

1
DA022
Demolition Plan
1 : 1000

LEGEND

- SITE BOUNDARY
- EXISTING BUILDINGS TO BE DEMOLISHED
- EXISTING ROADS TO BE DEMOLISHED
- EXISTING VEGETATION/TREES TO BE REMOVED
- EXISTING VEGETATION/TREES
- EXISTING ROAD
- FREIGHT CORRIDOR EASEMENT
- EASEMENT OF DRAINAGE OF WATER

* ALL RURAL FENCING WITHIN THE SITE TO BE REMOVED

Subdivision Works Certificate

Certificate Number: 210204SW01

Issuing Officer: Christopher Borg

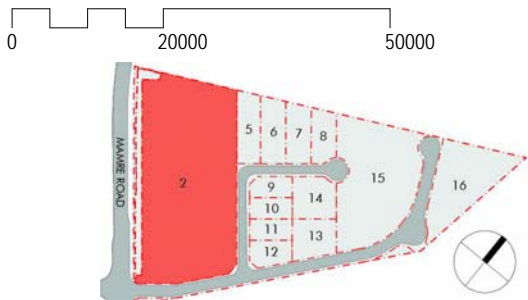
Registration Number: BDC3330

These plans/specifications form part

of the certificate issued: 04/10/2024



Key Plan



Drawing Title:
Demolition Plan

Author:
WC

Checker:
MA

Sheet Size:
A1

Scale:
As indicated

Drawing Number:
11213_DA002b

Issue:
P2

nettletontribe

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ALTIS
PROPERTY PARTNERS

FOR REVIEW

Project Name
884-928 Mamre Road

Project Address

884-928 Mamre Road, Kemps Creek, NSW

Issue	Description	Date
P2	ISSUE FOR INFORMATION	07.07.2022
P1	ISSUE FOR INFORMATION	06.07.2022

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Project Manager