HUNTINGWOOD EAST ESTATE
AUGUSTA STREET, HUNTINGWOOD EAST, NSW, 2148
CIVIL EARLY WORKS PACKAGE
SSD - 36138263

DRAWING LIST

DRAWING NO.	DRAWING TITLE
C013904.07-EW 100	DRAWING LIST & GENERAL NOTES
C013904.07-EW 150	EXISTING SERVICES KEY PLAN
C013904.07-EW 155	EASEMENTS KEY PLAN
C013904.07-EW 156	TREE RETENTION PLAN
C013904.07-EW 200	EROSION AND SEDIMENT CONTROL - ENGINEERING NOTES
C013904.07-EW 201	EROSION AND SEDIMENT CONTROL PLAN - STAGE 0
C013904.07-EW 202	EROSION AND SEDIMENT CONTROL PLAN - STAGE 1
C013904.07-EW 250	EROSION AND SEDIMENT CONTROL DETAILS - SHEET 1
C013904.07-EW 251	EROSION AND SEDIMENT CONTROL DETAILS - SHEET 2
C013904.07-EW 300	BULK EARTHWORKS KEY PLAN
C013904.07-EW 301	BULK EARTHWORKS PLAN - WAREHOUSE 1, 2 & WESTERN SWALE
C013904.07-EW 302	BULK EARTHWORKS PLAN - WAREHOUSE 3 & WESTERN SWALE
C013904.07-EW 303	BULK EARTHWORKS PLAN - WAREHOUSE 4 & BLACKTOWN CREEK
C013904.07-EW 304	BULK EARTHWORKS PLAN - WAREHOUSE 5 & BLACKTOWN CREEK
C013904.07-EW 310	CUT & FILL PLAN
C013904.07-EW 350	BULK EARTHWORKS SECTIONS - SHEET 1
C013904.07-EW 351	BULK EARTHWORKS SECTIONS - SHEET 2
C013904.07-EW 352	BULK EARTHWORKS SECTIONS - SHEET 3
C013904.07-EW 353	BULK EARTHWORKS SECTIONS - SHEET 4
C013904.07-EW 354	BULK EARTHWORKS SECTIONS - SHEET 5
C013904.07-EW 355	BULK EARTHWORKS SECTIONS - SHEET 6
C013904.03-EW 400	STORMWATER DRAINAGE KEY PLAN
C013904.03-EW 410	BLACKTOWN CREEK REALIGNMENT PLAN
C013904.03-EW 415	WESTERN SWALE PLAN
C013904.03-EW 450	STORMWATER DRAINAGE DETAILS - SHEET 1
C013904.03-EW 451	STORMWATER DRAINAGE DETAILS - SHEET 2
C013904.03-EW 452	STORMWATER DRAINAGE DETAILS - SHEET 3
C013904.07-EW 550	KEY SECTIONS PLAN
C013904.07-EW 551	TYPICAL SECTIONS - SHEET 1
C013904.07-EW 552	TYPICAL SECTIONS - SHEET 2
C013904.07-EW 553	TYPICAL SECTIONS - SHEET 3
C013904.07-EW 554	TYPICAL SECTIONS - SHEET 4
C013904.07-EW 555	TYPICAL SECTIONS - SHEET 5
C013904.07-EW 556	TYPICAL SECTIONS - SHEET 6
C013904.07-EW 557	TYPICAL SECTIONS - SHEET 7
C013904.07-EW 558	TYPICAL SECTIONS - SHEET 8

DRAWING LIST

DRAWING NO.	DRAWING TITLE
C013904.07-EW 560	TYPICAL SECTIONS - SHEET 9
C013904.07-EW 561	TYPICAL SECTIONS - SHEET 10
C013904.07-EW 562	LONG SECTION - TRANSMISSION TOWERS (NORTH)
C013904.07-EW 563	LONG SECTION - TRANSMISSION TOWERS (SOUTH)
C013904.07-EW 564	TYPICAL CROSS SECTIONS - TRANSMISSION TOWERS - SHEET 1
C013904.07-EW 565	TYPICAL CROSS SECTIONS - TRANSMISSION TOWERS - SHEET 2
C013904.07-EW 600	RETAINING WALL KEY PLAN
C013904.07-EW 601	RETAINING WALL PLAN - WAREHOUSE 1, 2 & WESTERN SWALE
C013904.07-EW 602	RETAINING WALL PLAN - WAREHOUSE 3 & WESTERN SWALE
C013904.07-EW 603	RETAINING WALL PLAN - WAREHOUSE 4 & BLACKTOWN CREEK
C013904.07-EW 604	RETAINING WALL PLAN - WAREHOUSE 5 & BLACKTOWN CREEK
C013904.07-EW 611	RETAINING WALL ELEVATIONS SHEET 1
C013904.07-EW 612	RETAINING WALL ELEVATIONS SHEET 2
C013904.07-EW 613	RETAINING WALL ELEVATIONS SHEET 3
C013904.07-EW 614	RETAINING WALL ELEVATIONS SHEET 4
C013904.07-EW 615	RETAINING WALL ELEVATIONS SHEET 5
C013904.07-EW 616	RETAINING WALL ELEVATIONS SHEET 6
C013904.07-EW 650	RETAINING WALL DETAILS - SHEET 1
C013904.07-EW 651	RETAINING WALL DETAILS - SHEET 2

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The only retaining walls approved under this Subdivision Works Certificate are Retaining Wall 1E in its entirety, and Retaining Wall 2D between chainages 134 and 181 only. All other retaining walls are not approved under this SWC. Where retaining walls have not been approved, temporary batters are to be provided in accordance with the PSM Specification.

The headwall and energy dissipation required as part of the culvert crossing approved as part of the roads act approval are included as part of this Subdivision Works Certificate.

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART



LOCALITY PLAN
N.T.S

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 VARIED 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. REFER TO THE ARCHITECT'S DRAWINGS FOR ALL DIMENSIONAL SETOUT INFORMATION.
4. 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.

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 TO UNDERTAKE 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 WILL NOT BE LIABLE OR RESPONSIBLE FOR THE POSSIBLE ON-GOING NEED TO UPDATE THE DIGITAL TERRAIN MODEL, SHOULD THERE BE ANY AMENDMENTS OR CHANGES TO THE DRAWINGS OR CONTRACT INITIATED BY THE CONTRACTOR.

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
ISSUED FOR CONSTRUCTION CERTIFICATE	11.09.25	2
FOR CONSTRUCTION CERTIFICATE	26.05.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW100

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CRC COSTIN ROE CONSULTING — CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: DRAWING LIST & GENERAL NOTES

DRAWING No: C013904.07-EW100

ISSUE: 2

LEGEND:

- EXISTING STORMWATER PIPE
- EXISTING WATER PIPE
- EXISTING ELEC. CABLE (OVERHEAD)
- EXISTING ELEC. CABLE (U/G)
- EXISTING ELEC. CABLE (HIGH VOLTAGE)
- EXISTING COMMUNICATIONS CABLE
- EXISTING SEWER LINE
- EXISTING GAS LINE

NOTE:

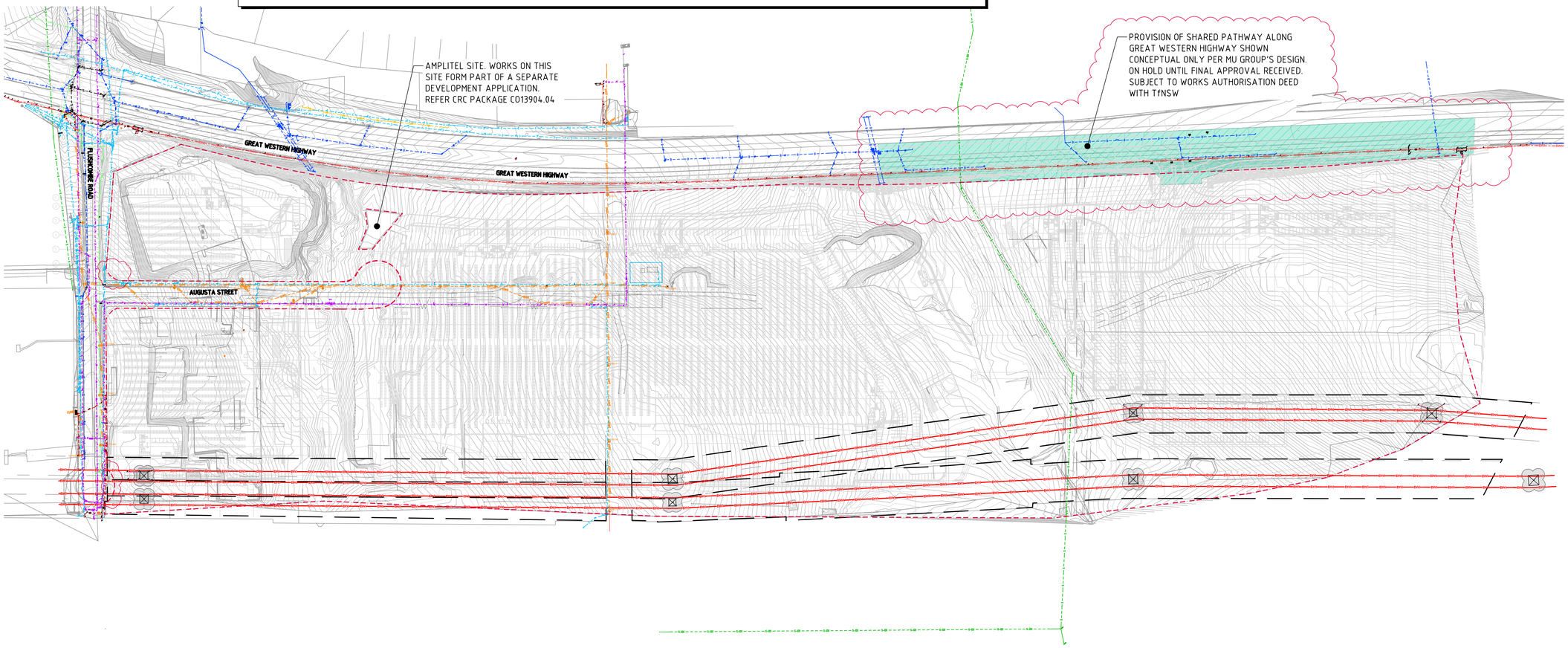
REFER TO DRAWING C013904.07-EW155 FOR EXISTING EASEMENTS

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.
7. THE CONTRACTOR SHALL ALLOW 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.
8. 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.
9. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL OF THE PROGRAM FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
10. 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.
11. 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.
12. THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG (DBYD 1100) SERVICES SEARCH BEFORE THE COMMENCEMENT OF ANY WORKS.

SERVICES COORDINATION NOTE:

LOCATION OF EXISTING SERVICES ARE FIGURATIVE ONLY, BASED ON 'DIAL BEFORE YOU DIG' AND SURVEY INFORMATION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING SERVICES WITH THE RELEVANT AUTHORITIES BEFORE COMMENCING CONSTRUCTION. ANY COSTS ASSOCIATED WITH THE REPAIR OF DAMAGED EXISTING SERVICES SHALL BE PAID FOR BY THE CONTRACTOR. RELOCATION OF EXISTING SERVICES TO BE PERFORMED BY THE CONTRACTOR IN CONSULTATION AND IN ACCORDANCE WITH RELEVANT SERVICE PROVIDERS REQUIREMENTS AND SPECIFICATIONS.



EXISTING SERVICES KEY PLAN
SCALE 1:1500

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Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

15m 0 15 30 45 60 75 90 105 120 135 150m

SCALE 1:1500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS	DATE	ISSUE

ARCHITECT
PACEARCHITECTS

CLIENT
AWJ

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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CRC COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
EXISTING SERVICES KEY PLAN

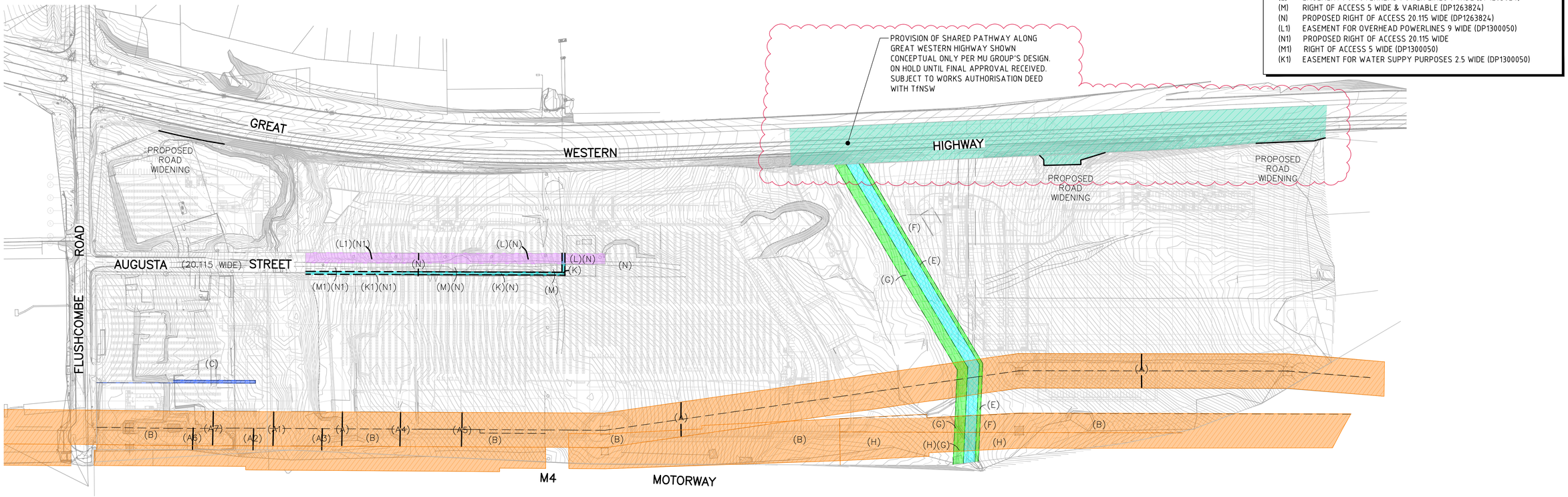
DRAWING No C013904.07-EW150

ISSUE 1

LEGEND:

- EASEMENT FOR DRAINAGE
- EASEMENT FOR WATER SUPPLY
- EASEMENT FOR OVERHEAD POWERLINES
- EASEMENT FOR CONSTRUCTION
- EASEMENT FOR TRANSMISSION LINES

(A1) EASEMENT FOR TRANSMISSION LINE 30 WIDE (R730705)
(A2) EASEMENT FOR TRANSMISSION LINE (J983245)
(A3) EASEMENT FOR TRANSMISSION LINE (J983234)
(A4) EASEMENT FOR TRANSMISSION LINE (T722919)
(A5) EASEMENT FOR TRANSMISSION LINE (T536159)
(A6) EASEMENT FOR TRANSMISSION LINE (K116727)
(A7) EASEMENT FOR TRANSMISSION LINE (V378957)
(A) PROPOSED EASEMENT FOR TRANSMISSION LINE 30 WIDE (DP604009)
(B) EASEMENT FOR TRANSMISSION LINE VARIABLE WIDTH (J946973)
(C) PROPOSED DRAINAGE EASEMENT 2.44 WIDE (DP8716)(A392054)
(E) EASEMENT FOR CONSTRUCTION 3 WIDE (DP1216918)
(F) EASEMENT FOR WATER SUPPLY PURPOSES 10 WIDE (DP1216918)
(G) EASEMENT FOR CONSTRUCTION 9 WIDE (DP1216918)
(H) EASEMENT FOR TRANSMISSION LINE (K116733)
(K) EASEMENT FOR WATER SUPPLY PURPOSES 2.5 WIDE (DP1263824)
(L) EASEMENT FOR OVERHEAD POWER LINES 9 WIDE (DP1263824)
(M) RIGHT OF ACCESS 5 WIDE & VARIABLE (DP1263824)
(N) PROPOSED RIGHT OF ACCESS 20.115 WIDE (DP1263824)
(L1) EASEMENT FOR OVERHEAD POWERLINES 9 WIDE (DP1300050)
(N1) PROPOSED RIGHT OF ACCESS 20.115 WIDE
(M1) RIGHT OF ACCESS 5 WIDE (DP1300050)
(K1) EASEMENT FOR WATER SUPPY PURPOSES 2.5 WIDE (DP1300050)



EASEMENTS KEY PLAN
SCALE 1:1500

Subdivision Works Certificate

Certificate Number: 250062SW01
Issuing Officer: Garry Ryan
Registration Number: BDC0565
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BARKER RYAN STEWART

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15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

ARCHITECT: PACEARCHITECTS
CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW155

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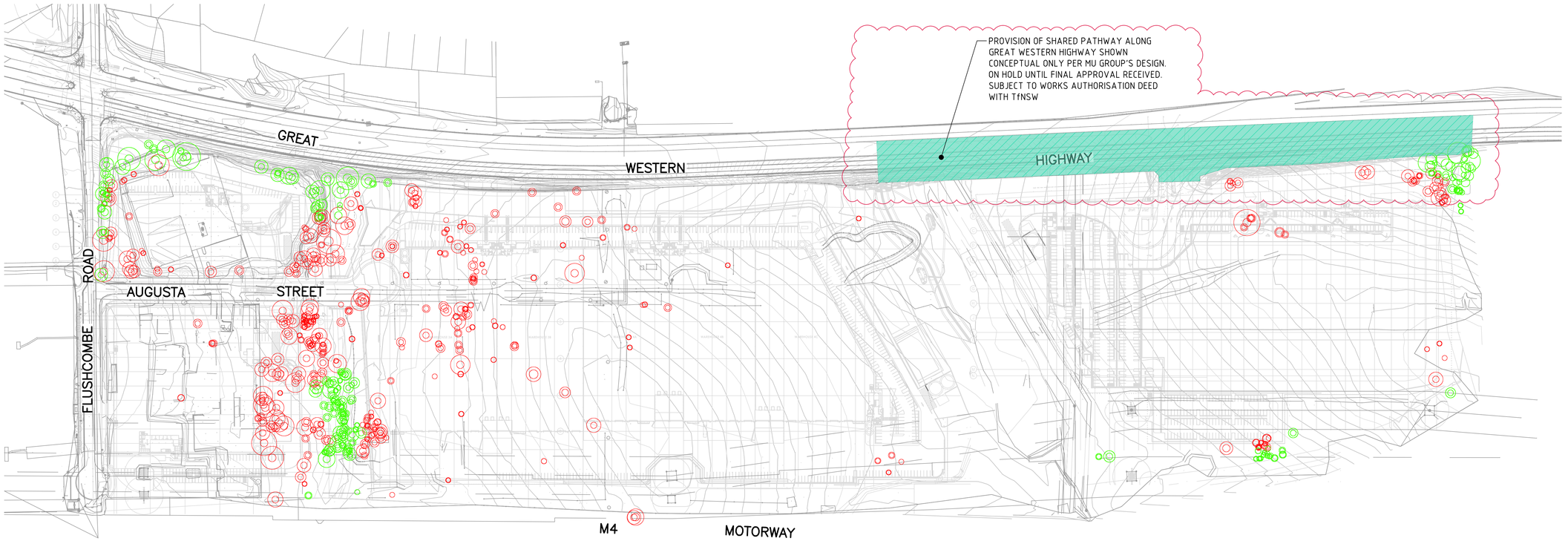
DRAWING TITLE: EASEMENTS KEY PLAN
DRAWING No: C013904.07-EW155
ISSUE: 1

NOTE:

1. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (REF: E-001759-23). IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

LEGEND:

- TREE TO BE REMOVED
- TREE TO BE RETAINED
- SITE BOUNDARY



TREE RETENTION PLAN
SCALE 1:1500

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

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15m 0 15 30 45 60 75 90 105 120 135 150m

SCALE 1:1500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
SWC/WAD AREAS CLOUDED	22.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW 156

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DRAWING TITLE: TREE RETENTION PLAN

DRAWING No: C013904.07-EW 156

ISSUE: 1

TABLE 1 - STABILISATION REQUIREMENTS AND TREATMENT METHODS

DURING CONSTRUCTION - TEMPORARY STABILISATION
(DURING PERIODS OF INACTIVITY OR WHEN WORKS ARE ON HOLD)

LANDS	STABILISATION REQUIREMENT	TIMEFRAMES	TREATMENT METHODS - PRODUCTS	REMARKS
ALL LANDS	C-FACTOR = 0.15 (50% EQUIVALENT GROUND COVER[1])	APPLIES AFTER 20 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER)	SOIL BINDER (I.E VITAL P47/STONEWALL OR EQUIVALENT[1])	- SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT[1]. - VITAL DILUTION RATE = 1:10(VITAL:WATER). -RE-APPLY/MAINTAIN AS NECESSARY (APPROX. EVERY 3-6 MONTHS WITHOUT SUITABLE VEGETATION COVER) TO ENSURE THE REQUIRED COVER IS PROVIDED.
			GEOTEXTILE, JUTE MATTING, BLACK PLASTIC OR EQUIVALENT[1]	- COVER ALL EXPOSED SOILS. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.
WATERWAYS, DRAINAGE LINES AND CONCENTRATED FLOW AREAS	C-FACTOR = 0.05 (70% GRASS COVER OR EQUIVALENT GROUND COVER[1])	APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY CONCENTRATED FLOWS.	REFER TO THE DRAIN SPECIFICATIONS DETAILED ON THE PLAN FOR SPECIFIC LINING/STABILISATION REQUIREMENTS. EXAMPLE TREATMENT METHODS ARE SHOWN BELOW.	
			TEMPORARY LINING - GEOTEXTILE (I.E. BIDIM A24 OR EQUIVALENT[1])	- COMPLETE ANY SUBSOIL TREATMENT BEFORE LAYING THE MATTING. - INSTALL MATTING IN ACCORDANCE WITH SD 5-7. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.
			JUTE MESH, SEEDING AND SOIL BINDER (I.E. VITAL P47/STONEWALL OR EQUIVALENT[1]) - LOW FLOWS TO MODERATE	- COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF 5 TONNES/Ha). - PLACE TOPSOIL TO A DEPTH OF AT LEAST 75mm. - COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING. - INSTALL MATTING IN ACCORDANCE WITH SD 5-7. - SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT[1]. - VITAL DILUTION RATE = 1L / m^2 OF DILUTED VITAL MIXTURE. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			JUTE MATTING (~350gsm) AND SEEDING OR EQUIVALENT[1] - LOW FLOWS TO MODERATE	- COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF STONNES/Ha). - PLACE TOPSOIL TO A DEPTH OF AT LEAST 75mm. - COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING. - INSTALL MATTING IN ACCORDANCE WITH SD 5-7. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			TURF REINFORCEMENT MATTING (TRM) (E.G. TERRAMAT OR EQUIVALENT[1]) - MODERATE FLOWS	- COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF STONNES/Ha). - PLACE TOPSOIL TO A DEPTH OF AT LEAST 75mm. - COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING. - INSTALL MATTING IN ACCORDANCE WITH SD 5-7. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			ROCK LINING - HIGH FLOWS	- COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF STONNES/Ha). - INSTALL GEOTEXTILE UNDERLAY (IF SPECIFIED) IN ACCORDANCE WITH SD 5-7. - INSTALL ROCK ARMOURING (TO THE DEPTH AND SIZE AS SPECIFIED ON THE PLAN).
STOCKPILES	C-FACTOR = 0.10 (60% GRASS COVER OR EQUIVALENT GROUND COVER[1]	APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION	SEEDING AND SOIL BINDER (I.E. VITAL P47/STONEWALL OR EQUIVALENT[1])	- APPLY SEED TO ALL STOCKPILE SURFACES (NOTE: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT). -SPRAY ALL STOCKPILE SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT[1] - VITAL DILUTION RATE = 1:10 (VITAL:WATER). - APPLICATION RATE = 1L / m2 OF DILUTED VITAL MIXTURE. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			GEOTEXTILE, JUTE MATTING, BLACK PLASTIC OR EQUIVALENT[1]	- COVER ALL EXPOSED SOILS. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.
GENERAL SURFACES	C-FACTOR = 0.10 / 0.05 (60% / 70% GRASS COVER OR EQUIVALENT GROUND COVER[1]	C-FACTOR = 0.1 APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND C-FACTOR = 0.05 APPLIES WITHIN A FURTHER 60 DAYS	TOPSOIL, SEEDING AND SOIL BINDER (I.E. VITAL P47/STONEWALL OR EQUIVALENT[1])	- REFER TO SD 7-1 - COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF 5TONNES/Ha). - PLACE GYPSUM TREATED TOPSOIL TO A DEPTH OF AT LEAST 75mm. - APPLY ANY FERTILISERS REQUIRED. - APPLY SEED TO ALL SURFACES. - SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT[1]. - VITAL DILUTION RATE = 1:10 (VITAL:WATER). - APPLICATION RATE = 1L / m2 OF DILUTED VITAL MIXTURE. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			HYDROMULCH OR EQUIVALENT[1]	- REFER TO SD 7-1 - COMPLETE SUBSOIL TREATMENT (I.E. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF 5TONNES/Ha). - PLACE GYPSUM TREATED TOPSOIL TO A DEPTH OF AT LEAST 75mm. - APPLY HYDROMULCH WITH APPROVED SEED MIX TO SOIL SURFACE. - RE-APPLY/MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.

[1] - EQUIVALENT COVER/PRODUCT MUST ACHIEVE THE EQUIVALENT C-FACTOR WITH PROVEN RESEARCH/DOCUMENTATION TO VERIFY THIS. STANDARD DRAWINGS REFERENCED CAN BE LOCATED IN THE 'SOILS & CONSTRUCTION, MANAGING URBAN STORMWATER - VOLUME 1' BOOK BY LANDCOM. ALTERNATIVE DETAILS MAY BE SOUGHT IN CONSULTATION WITH THE ENGINEER

TABLE 2 - LIMITATIONS TO ACCESS DURING CONSTRUCTION

LAND USE	LIMITATION	REMARKS
CONSTRUCTION AREAS	LIMITED TO 5 (PREFERABLE 2) METRES FROM THE EDGE OF ANY ESSENTIAL CONSTRUCTION ACTIVITY AS SHOWN ON ENGINEERING PLANS.	ALL SITE WORKERS SHOULD CLEARLY RECOGNISE THESE AREAS THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCE (DOWNSLOPE) OR SIMILAR MATERIALS.
ACCESS CORRIDORS	LIMITED TO A MAXIMUM WIDTH OF 7 METERS	THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON SITE, THEY CAN VARY IN POSITION SO AS TO BEST CONSERVE EXISTING VEGETATION AND PROTECT DOWNSTREAM AREAS WHILE BEING CONSIDERATE OF THE NEEDS EFFICIENT WORKS ACTIVITIES. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES.
REMAINING LANDS, INCLUDING REVEGETATION AREA	ENTRY PROHIBITED EXCEPT FOR ESSENTIAL MANAGEMENT WORKS	THINNING OF GROWTH MIGHT BE NECESSARY, FOR EXAMPLE, FOR FIRE REDUCTION OR WEED REMOVAL.

EROSION CONTROL NOTES

ALL SEDIMENT CONTROL WORK INCLUDING DIVERSION BANKS, CATCH DRAINS, V-DRAINS AND SEDIMENT FENCES SHALL BE COMPLETED IN ACCORDANCE WITH THE STAGED PLANS PRESENTED AND SHALL FACILITATE A STAGED CONSTRUCTION METHODOLOGY.

1. ALL EROSION & SEDIMENT CONTROLS SHALL BE COMPLETED IN ACCORDANCE WITH THE 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER - THE BLUE BOOK' BY LANDCOM.
2. SEDIMENT FENCES AND SEDIMENT FENCE RETURNS SHALL BE ERECTED CONVEX TO THE CONTOUR TO POND WATER.
3. STRAW BALE BARRIERS & GEOFABRIC FENCES OR SEDIMENT FANCNES ARE TO BE CONSTRUCTED TO TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.
4. ALL TEMPORARY EARTH BERMS, DIVERSION AND SEDIMENT BASIN EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED. REFER TO TABLE 1 FOR APPROVED STABILISATION METHODS.
5. CLEAN OR NON-SITE WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM OVER STABLE SURFACES.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.
7. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS OF 5mm OR GREATER WITHIN A 24 HOUR PERIOD FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED LOCATION.
8. THE SITE IS TO BE INSPECTED FOLLOWING A RAINFALL EVENT OF 5mm OR GREATER WITHIN A 24 HOUR PERIOD FOR EVIDENCE OF EROSION AND RESPOND WITH INCREASED CONTROL IF REQUIRED.
9. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE END OF THE DEFECTS LIABILITY PERIOD.
10. ALL EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR BASIS TO SEAL THE EARTHWORKS.
11. ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S EARTHWORKS TO DIRECT WATER TO A STABLE OUTLET OVER THE BATTER OR INTERNALLY TOWARDS SEDIMENT CONTROL. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200mm.
12. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
13. AFTER PERMANENT STABILISATION OF THE SITE IS COMPLETE (I.E. BY TOPSOILING, PAVING ETC.) AND THE SITE IS DEEMED TO BE STABLE IN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WORK SUCH AS SEDIMENT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.
14. ALL STOCKPILES ARE TO BE SUITABLY COVERED AND STABILIZED TO THE SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER EROSION.
15. ANY AREA THAT IS NOT APPROVED BY THE CONTRACT ADMINISTRATOR FOR CLEARING OR DISTURBANCE BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARLY MARKED AND SIGN POSTED, FENCED OFF OR OTHERWISE APPROPRIATELY PROTECTED AGAINST ANY SUCH DISTURBANCE.
16. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS INDICATED ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR APPROVED FOR SUCH USE BY THE SITE MANAGER. A 6m BUFFER ZONE SHALL EXIST BETWEEN STOCKPILE SITES AND ANY STREAM OR FLOW PATH. ALL STOCKPILES SHALL BE ADEQUATELY PROTECTED FROM EROSION AND CONTAMINATION OF THE SURROUNDING AREA BY USE OF THE MEASURES IN THE APPROVED ESCP.
17. ACCESS AND EXIT AREAS SHALL INCLUDE TRUCK SHAKER GRID OR OTHER METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FORM MOTOR VEHICLES.
18. THE CONTRACTOR IS TO ENSURE RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS, DEPOT AND STOCKPILE SITES, SHALL BE FREE OF SEDIMENTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES.
19. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED ESCP / SWMP.

DUST CONTROL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE DUST CONTROL MEASURES ARE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES REQUIREMENTS.
2. THE APPLICATION OF LIQUID BASED DUST SUPPRESSION MEASURES MUST BE SUCH THAT SEDIMENT LADEN RUNOFF RESULTING FROM SUCH MEASURES DOES NOT CREATE A TRAFFIC OR ENVIRONMENTAL HAZARD. (EG UTILISING SEDIMENT CONTROLS)
3. DUST GENERATION ASSOCIATED WITH WIND EROSION TO BE CONTROLLED USING WATER TRUCKS, DUST SUPPRESSING FOG, MIST GENERATORS, SEALANT PLACED OVER THE SOIL, SURFACE ROUGHENING OR RE-VEGETATION.
4. THE FOLLOWING ACTIVITIES SHALL BE ADOPTED, IF NECESSARY, TO MANAGE DUST CONTROL ON SITE:
   - LIMITING THE AREA OF SOIL DISTURBANCE AT ANY GIVEN TIME
   - REPLACING TOPSOIL AFTER COMPLETION OF EARTHWORKS.
   - PROGRAMMING WORK TO MINIMISE THE LIFE OF STOCKPILES.
   - TEMPORARILY STABILISING LONG-TERM STOCKPILES.
   - GRAVELLING UNSEALED ACCESS AND HAUL ROADS.
   - MINIMISING TRAFFIC MOVEMENT ON EXPOSED SURFACES.
   - LIMITING VEHICULAR TRAFFIC TO 15km/h.
   - RETAINING EXISTING VEGETATION AS WIND BREAKS.
   - UTILISING A WATER CART WITH POTABLE WATER ONLY
5. OIL, LANDFILL GAS CONDENSATE OR ANY CONTAMINATED LEACHATE IS NOT TO BE USED FOR DUST SUPPRESSION.

INSTREAM WORKS:

1. SEDIMENT FENCES AND SEDIMENT FENCE RETURNS TO BE ERECTED PRIOR TO THE COMMENCEMENT OF ANY WORK. SEDIMENT FENCES TO REMAIN UNTIL COMPLETION OF INSTREAM WORK IN THESE LOCATION TO PROTECT EXISTING DOWNSTREAM PROPERTIES AND ROAD PAVEMENT. (REFER TO SSDA250 FOR DETAILS).
2. UNDERTAKE WORK DURING A PERIOD OF DRY FORECASTED WEATHER.
3. PROTECT DISTURBED AREA WITH COFFERDAMS AS REQUIRED.
4. TEMPORARY LOW FLOW DIVERSION PIPE OR PUMPED SYSTEM MAY BE INSTALLED AT THE BASE OF CHANNEL TO DIVERT CLEAN WATER FROM UPSTREAM BASEFLOW.
5. UNDERTAKE ALL INSTREAM WORK IN THE SPECIFIED SECTION OF THE CHANNEL IN ACCORDANCE WITH APPROVED PLANS AND IMMEDIATELY PLANT TO STABLISE THE WORKS.
6. PLANT WITH APPROPRIATE SPECIES, AT A DENSITY THAT WOULD NATURALLY OCCUR.

SITE STABILITY NOTE:

LAND DISTURBANCE & LAND FILLING ACTIVITIES MUST BE UNDERTAKEN IN A PHASED MANNER, IMPACTING A MAXIMUM AREA OF 65Ha AT ANY ONE TIME PER CONDITION B41(a).
DISTURBED AREAS MUST BE STABILISED TO A C-FACTOR OF 0.05 PRIOR TO THE COMPLETION OF ANY OTHER WORKS PER CONDITION B41(b).
REFER TO TABLE 1 ABOVE FOR APPROVED STABILISATION METHODS

INSPECTION & MAINTENANCE NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ADEQUATE INSPECTIONS AND MAINTENANCE ARE CARRIED OUT DURING SITE WORKS. DAILY AND WEEKLY INSPECTION CHECKLISTS HAVE BEEN PROVIDED IN THE COSTIN ROE SOIL AND WATER MANAGEMENT PLAN (SWMP) 13904.03-03D.rpt DATED 23/07/23.

AS NOTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ADEQUATE MAINTENANCE OF EROSION & SEDIMENT CONTROL MEASURES ARE UNDERTAKEN DURING THE WORKS PERIOD. DAMAGED, DISLODGED OR FAULTY ESC MEASURES ARE TO BE IMMEDIATELY RECTIFIED AND THE SURROUNDING AREA IS TO BE REMEDIATED AS PER NOTES ON THIS DRAWING, THE SWMP AND THE LANDCOM 'BLUE BOOK'.

SOIL & WATER MANAGEMENT PLAN NOTE:

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SOIL AND WATER MANAGEMENT PLAN BY COSTIN ROE CONSULTING, REF 13904.03-03D.rpt

SEDIMENT CONTROL BASIN NOTES

1. TYPE D BASIN IS REQUIRED.
2. VOLUME OF THE BASINS SHALL BE AS NOMINATED ON DRAWING. NOMINAL POND LOCATIONS AND NOMINAL DIMENSIONS.
3. SEDIMENT BUILD UP TO NOT EXCEED 33% TOTAL CAPACITY OF BASIN.
4. DEWATERING OF BASIN TO BE PERFORMED TO THE BOTTOM OF THE SEDIMENT SETTLING ZONE FOLLOWING ACHIEVEMENT OF WQO's. MANAGEMENT OF DOSAGE AND DISCHARGE TO BE ACHIEVED WITHIN 5 DAYS OF THE INITIAL RAINFALL EVENT.
5. FOLLOWING DEWATERING PER NOTE 4, WATER LEVEL TO BE MAINTAINED AT 20% CAPACITY AFTER A FOUR DAY SETTLING PERIOD FOLLOWING A STORM EVENT SUCH THAT THE BASIN HAS SUFFICIENT CAPACITY TO CONTAIN RUNOFF AND SEDIMENT FROM SUBSEQUENT RAINFALL EVENTS.
6. WATER TO BE DOSED WITH GYPSUM TO ACCELERATE SETTLEMENT OF SUSPENDED SOLIDS AS REQUIRED.
7. GYPSUM DOSAGE RATE TO BE APPLIED AT APPROX. 32kg PER 100 CUBIC METRE OF COLLECTED RUNOFF.
8. THE USE OF ALUM (OR ANY OTHER ALTERNATIVE) AS A FLOCCULANT IS NOT RECOMMENDED. ALUM OR ANY OTHER FLOCCULANT IS TO BE USED ONLY FOLLOWING CONSULTATION WITH AND ACCEPTANCE FROM COUNCIL ESC OFFICERS.
9. DISCHARGE FROM POND IS PERMISSIBLE WHEN THE WATER PH IS 6.5-8.5 AND IS CLARIFIED TO AT OR BELOW A TSS OF 50mg/L. CLARIFICATION WOULD GENERALLY BE ACHIEVED IN 36-72 HOURS WITH THE USE OF GYPSUM PLUS NO VISIBLE OIL OR GREASE. CORRELATION TESTS MUST BE UNDERTAKEN ON SITE TO ENSURE THIS IS ACHIEVED.
10. DEWATERING SHALL BE DONE IN SUCH A MANNER AS TO REMOVE THE CLEAN WATER (BEING WATER WITHIN THE ADOPTED CRITERIA) WITHOUT REMOVING OR DISTURBING THE SEDIMENT THAT HAS SETTLED. THE PUMP INTAKE PIPE IS NOT TO REST ON THE SETTLED SEDIMENT LAYER.
11. IF WATER EXCEEDS TSS OF 50mg/L DURING DEWATERING, PUMPING IS TO CEASE. RECORDS ARE TO BE KEPT (ON-SITE AT ALL TIMES) OF ALL MEASUREMENT PRIOR TO, DURING AND AFTER DISCHARGE. RECORDS TO BE MADE AVAILABLE TO COUNCIL OFFICERS UPON REQUEST.
12. PROVIDE SECURITY FENCE TO BASIN FOR SAFETY.

SEDIMENTATION BASIN NOTE:

REFER TO SEDIMENT & EROSION CONTROL NOTES.

FOR SEDIMENT AND EROSION CONTROL DETAILS, REFER TO THE LANDCOM 'BLUE BOOK' AND EXTRACTS ON DRAWING SSDA250.

SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWAER-THE BLUE BOOK'. CAPACITY BASED ON 5-DAY RAINFALL DEPTHS AT 85th PERCENTILE INTENSITY (32.2mm) IN THE LIVERPOOL CATCHMENT AREA.

NOTES:
1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)
3. REFER TO DRAWING EW201 FOR SEDIMENTATION BASIN CALCULATIONS

Subdivision Works Certificate

Certificate Number: 250062SW01

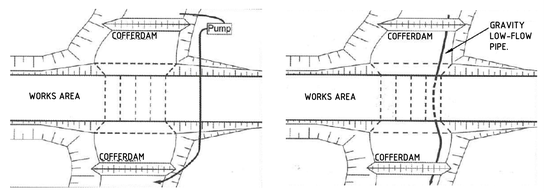
Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"



PUMPED SYSTEM OPTION — GRAVITY PIPE OPTION

INSTREAM WORKS COFFERDAM ARRANGEMENT

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

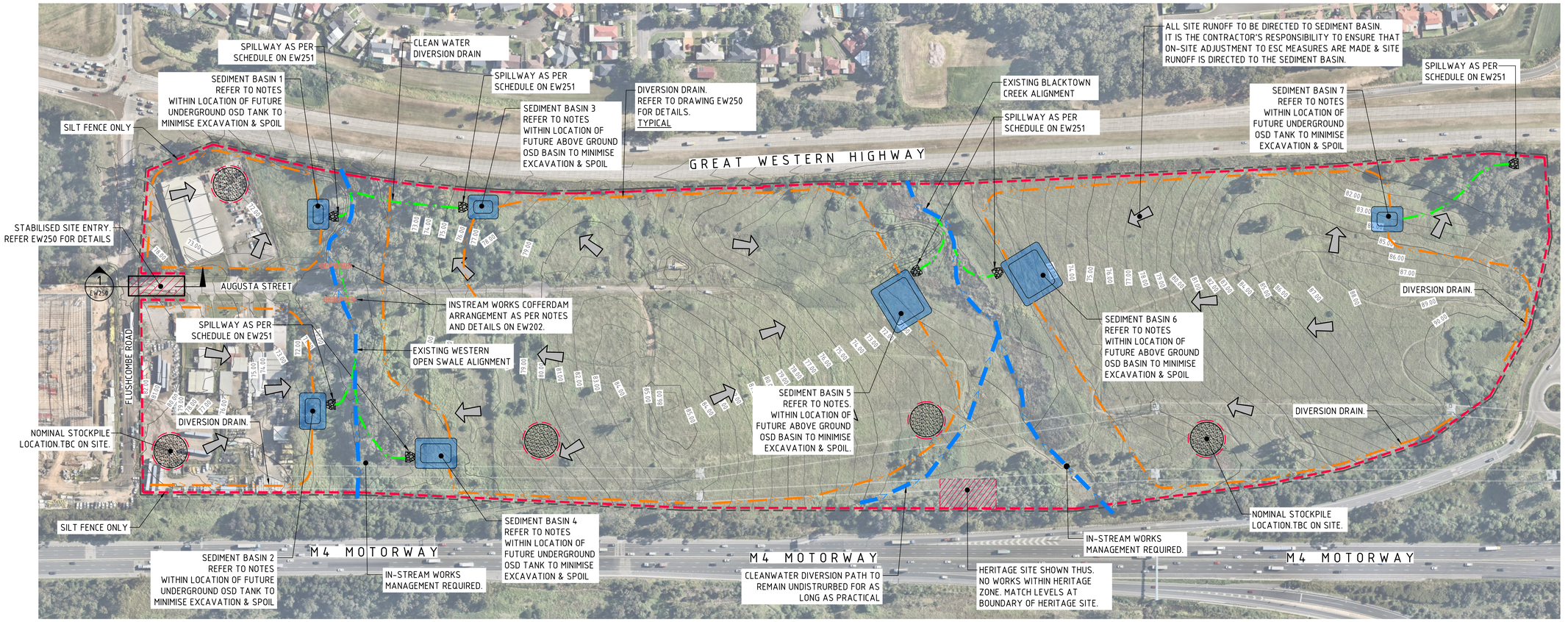
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LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW200

CONSULT AUSTRALIA

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COSTIN ROE CONSULTING — CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: EROSION & SEDIMENT CONTROL ENGINEERING NOTES

DRAWING No: C013904.07-EW200 ISSUE: 0



EROSION AND SEDIMENT CONTROL PLAN - STAGE 0

SCALE 1:1500

STAGING NOTES- STAGE 0:

STAGE 0 REPRESENTS INITIAL SITE ESTABLISHMENT. THE STAGE 0 SCOPE IS NOTED TO BE PRIOR TO SITE STRIPPING & GRUBBING.

STAGE 0 IMPLEMENTATION RECOMMENDATIONS:

1. SURVEY AND MARK BOUNDARIES, ACCESS NO GO ZONES, TREE PROTECTION ZONES (IF REQUIRED), DIVERSION DRAINS, LAYDOWN AREAS, SITE PARKING AREAS, AND SITE OFFICE ZONES.
2. PREPARE AND CONSTRUCT STABILISED SITE CONSTRUCTION ENTRY'S.
3. INSTALL ALL PRELIMINARY EROSION & SEDIMENT CONTROL MEASURES. MINIMUM ITEMS INCLUDE PERIMETER SILT FENCES, ANY SECURITY FENCING, NO GO ZONES, DIVERSION DRAINS AND SITE AREAS.
4. INSTALL ALL DIVERSION DRAINS, PROVIDE TYPICAL CROSSING OVER DIVERSION CHANNEL WHERE REQUIRED.
5. PREPARE AND CONSTRUCT SEDIMENT BASINS.

NOTES:

REFER TO DRAWING EW200 FOR DETAILED EROSION AND SEDIMENT CONTROL NOTES.

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

SEDIMENT CONTROL BASIN NOTES:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING C013904.03-EW250.

SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'.

SEDIMENT BASIN 1:

CATCHMENT AREA	= 1.49ha
REQUIRED BASIN VOLUME	= 360m³
BASE DIMENSION (LxB)	= 8.0m x 15.0m
TOP DIMENSION (LxB)	= 17.0m x 24.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 375m³

SEDIMENT BASIN 2:

CATCHMENT AREA	= 2.53ha
REQUIRED BASIN VOLUME	= 611m³
BASE DIMENSION (LxB)	= 12.0m x 20.0m
TOP DIMENSION (LxB)	= 21.0m x 29.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 616m³

SEDIMENT BASIN 3:

CATCHMENT AREA	= 1.73ha
REQUIRED BASIN VOLUME	= 418m³
BASE DIMENSION (LxB)	= 10.0m x 15.0m
TOP DIMENSION (LxB)	= 19.0m x 24.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 434m³

SEDIMENT BASIN 4:

CATCHMENT AREA	= 3.46ha
REQUIRED BASIN VOLUME	= 836m³
BASE DIMENSION (LxB)	= 15.0m x 24.0m
TOP DIMENSION (LxB)	= 24.0m x 33.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 843m³

SEDIMENT BASIN 5:

CATCHMENT AREA	= 6.48ha
REQUIRED BASIN VOLUME	= 1565m³
BASE DIMENSION (LxB)	= 25.0m x 31.0m
TOP DIMENSION (LxB)	= 34.0m x 40.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 1581m³

SEDIMENT BASIN 6:

CATCHMENT AREA	= 6.62ha
REQUIRED BASIN VOLUME	= 1599m³
BASE DIMENSION (LxB)	= 26.0m x 31.0m
TOP DIMENSION (LxB)	= 35.0m x 40.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 1634m³

SEDIMENT BASIN 7:

CATCHMENT AREA	= 1.96ha
REQUIRED BASIN VOLUME	= 573m³
BASE DIMENSION (LxB)	= 11.0m x 16.0m
TOP DIMENSION (LxB)	= 20.0m x 25.0m
MAX SIDE SLOPE	= 1V:3H
DEPTH	= 1.5m
PROVIDED BASIN VOLUME	= 486m³

SEDIMENTATION BASINS TO COLLECT RUN-OFF IN EXTREME RAINFALL EVENTS. COLLECTED RUN-OFF TO BE ASSESSED BY A QUALIFIED LABORATORY FOR DOUSING RATES OF ALUM OR GYPSUM TO ENSURE COAGULATION OF SEDIMENTS PRIOR TO WATER BEING DISCHARGED TO COUNCIL STORMWATER SYSTEM.

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

NOTES:

1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)
3. Cv = 0.50 & LENGTH TO WIDTH RATIO OF 2 (MIN.)

SOIL TYPE TO BE ASSESSED BY A GEOTECHNICAL ENGINEER

LEGEND:

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS. TYPICAL (N.S.O.P.)

- DENOTES DIVERSION DRAIN
- DENOTES CLEAN WATER DIVERSION DRAIN
- DENOTES SILT FENCE WITH CATCH DRAIN
- DENOTES SILT FENCE ONLY
- DENOTES CONSTRUCTION ENTRY
- DENOTES OVERLAND FLOW PATH
- DENOTES NOMINAL STOCKPILE LOCATION.

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

50.00 - EXISTING CONTOUR (1m INTERVAL)

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

15m 0 15 30 45 60 75 90 105 120 135 150m

SCALE 1:1500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW201

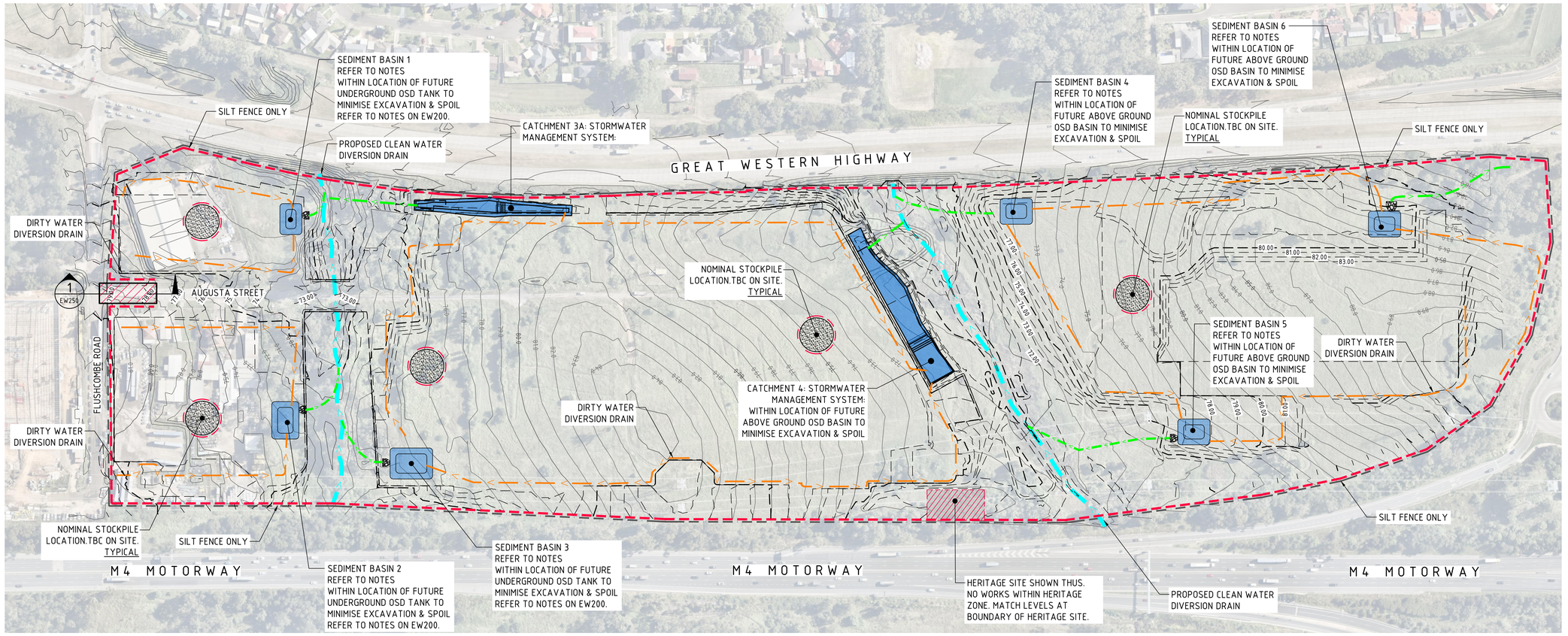
CONSULT AUSTRALIA

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COSTIN ROE CONSULTING | CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: EROSION AND SEDIMENT CONTROL PLAN STAGE 0

DRAWING No: C013904.07-EW201

ISSUE: 0



EROSION AND SEDIMENT CONTROL PLAN – STAGE 1
SCALE 1:1500

STAGING NOTES – STAGE 1:

STAGE 1 REPRESENTS WORKS FOLLOWING SITE ESTABLISHMENT INCLUDING SITE STRIPPING & GRUBBING, AND COMMENCEMENT OF EARTHWORKS.

STAGE 1 IMPLEMENTATION RECOMMENDATIONS:

1. PREPARE AND CONSTRUCT SEDIMENT BASIN.
2. ADJUST DIVERSION DRAINS TO ENSURE ALL RUNOFF IS DIRECTED TO BASIN. CHECK AND CONFIRM ON SITE FOR ANY CONTOURS OR DRAINAGE LINES NOT SHOWN ON THE ESCP AND ALLOW FOR THEM ON SITE AS REQUIRED.
3. ESTABLISH SITE COMPOUND INCLUDING OFFICE AND PARKING AREAS.
4. ENSURE ESCP MEASURES SHOWN ON PLAN ARE INSTALLED, AND EXISTING MEASURES ARE CHECKED AND MAINTAINED AS REQUIRED.
5. COMMENCE SITE STRIPPING (LIMIT TO AREA OF WORKS AS NECESSARY TO COMPLETE THE WORKS) AND CUT TO FILL EARTHWORK.
6. MONITOR AND INSPECT MEASURES IN ACCORDANCE WITH THE SITE INSPECTION CHECK SHEETS AND SOIL AND WATER MANAGEMENT PLAN INCLUDED IN THE SITE CEMP.
7. ALL CONTROLS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD, AND PROGRESSIVELY ADJUSTED TO SUIT SITE CONDITIONS IN ACCORDANCE WITH THE CEMP, THE SOIL AND WATER MANAGEMENT PLAN (SUBPLAN OF THE CEMP) AND PER BLUE BOOK/ WHITE BOOK REQUIREMENTS.

NOTES:

REFER TO DRAWING EW200 FOR DETAILED EROSION AND SEDIMENT CONTROL NOTES.

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SEDIMENT CONTROL BASIN NOTES:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING C013904.03-EW250.

SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER–THE BLUE BOOK'.

SEDIMENT BASIN 1:
CATCHMENT AREA = 1.49ha
REQUIRED BASIN VOLUME = 360m³
BASE DIMENSION (LxB) = 8.0m x 15.0m
TOP DIMENSION (LxB) = 17.0m x 24.0m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 375m³

SEDIMENT BASIN 2:
CATCHMENT AREA = 2.53ha
REQUIRED BASIN VOLUME = 611m³
BASE DIMENSION (LxB) = 12.0m x 20.0m
TOP DIMENSION (LxB) = 21.0m x 29.0m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 616m³

SEDIMENT BASIN 3:
CATCHMENT AREA = 3.46ha
REQUIRED BASIN VOLUME = 836m³
BASE DIMENSION (LxB) = 15.0m x 24.0m
TOP DIMENSION (LxB) = 24.0m x 33.0m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 843m³

SEDIMENT BASIN 4:
CATCHMENT AREA = 1.96ha
REQUIRED BASIN VOLUME = 473m³
BASE DIMENSION (LxB) = 9.0m x 20.0m
TOP DIMENSION (LxB) = 18.0m x 29.0m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 504m³

SEDIMENT BASIN 5:
CATCHMENT AREA = 2.89ha
REQUIRED BASIN VOLUME = 698m³
BASE DIMENSION (LxB) = 12.0m x 24.0m
TOP DIMENSION (LxB) = 21.0m x 33.0m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 714m³

SEDIMENT BASIN 6:
CATCHMENT AREA = 1.23ha
REQUIRED BASIN VOLUME = 297m³
BASE DIMENSION (LxB) = 6.0m x 14.0m
TOP DIMENSION (LxB) = 15.0m x 23.0m
MAX SIDE SLOPE = 1V:3H
DEPTH = 1.5m
PROVIDED BASIN VOLUME = 300m³

SEDIMENTATION BASINS TO COLLECT RUN-OFF IN EXTREME RAINFALL EVENTS. COLLECTED RUN-OFF TO BE ASSESSED BY A QUALIFIED LABORATORY FOR DOUSING RATES OF ALUM OR GYPSUM TO ENSURE COAGULATION OF SEDIMENTS PRIOR TO WATER BEING DISCHARGED TO COUNCIL STORMWATER SYSTEM.

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

NOTES:
1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)
3. Cv = 0.50 & LENGTH TO WIDTH RATIO OF 2 (MIN.)

SOIL TYPE TO BE ASSESSED BY A GEOTECHNICAL ENGINEER

LEGEND:

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS. TYPICAL (N.S.O.P.)

- DENOTES DIVERSION DRAIN
- DENOTES CLEAN WATER DIVERSION DRAIN
- DENOTES PROPOSED CLEAN WATER DIVERSION DRAIN
- DENOTES SILT FENCE WITH CATCH DRAIN
- DENOTES SILT FENCE ONLY
- DENOTES CONSTRUCTION ENTRY
- DENOTES OVERLAND FLOW PATH
- DENOTES NOMINAL STOCKPILE LOCATION.

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.12.1 DATED 29/08/2024.

- 50.00 – EXISTING CONTOUR (1 m INTERVAL)
- 50.00 – B.E.L. CONTOUR (MAJOR 1.0m)
- 50.25 – B.E.L. CONTOUR (MINOR 0.25m)
- 50.00 – B.E.L. SPOT LEVEL

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

Subdivision Works Certificate
Certificate Number: 250062SW01
Issuing Officer: Garry Ryan
Registration Number: BDC0565
These plans/specifications form part of the certificate issued: 24/10/2025
BARKER RYAN STEWART

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACEARCHITECTS
CLIENT: AWJ

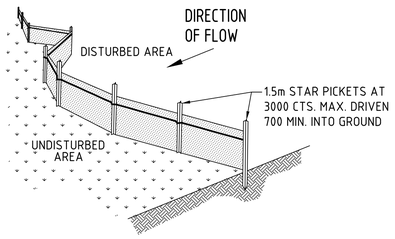
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW202

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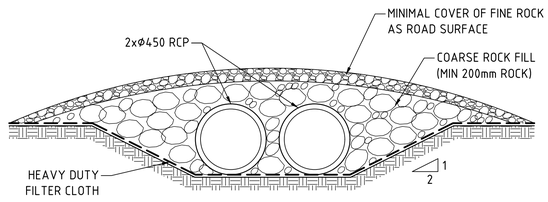
DRAWING TITLE: EROSION AND SEDIMENT CONTROL PLAN STAGE 1
DRAWING No: C013904.07-EW202
ISSUE: 0



TYPICAL SILT FENCE DETAIL

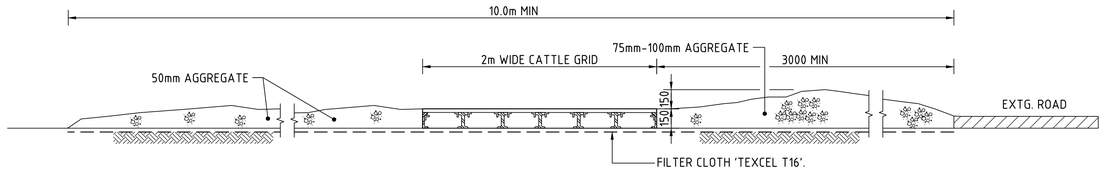
N.T.S

NOTE: PROVIDE 1m RETURNS AT 30m INTERVALS. TYPICAL

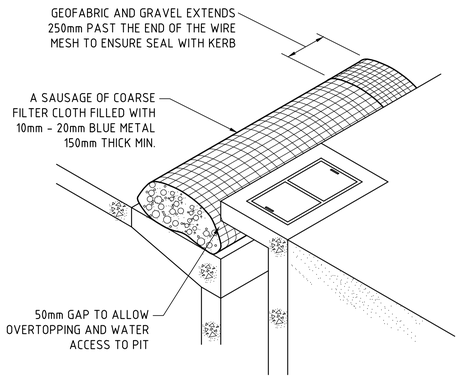


TYPICAL CROSSING OVER DIVERSION CHANNEL

SCALE 1:20

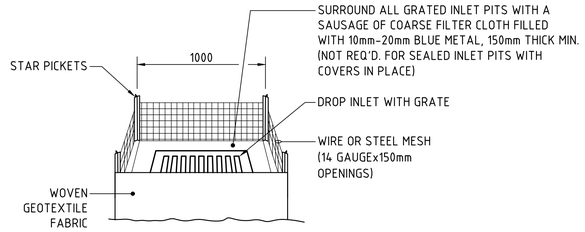


SECTION 1:20 (1/201) : STABILISED CONSTRUCTION ENTRANCE 'TRUCK SHAKER'



KERB INLET CONTROL

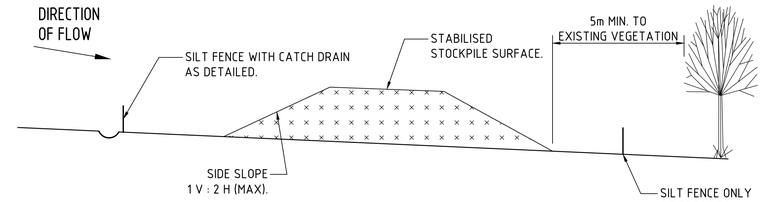
N.T.S



GRATED INLET PIT FILTER DETAIL

N.T.S

NOTE :
ADOPT ABOVE DETAILS AROUND ALL PITS WITHIN AREA ENCOMPASSED BY SILT FENCE & TO PITS ON THE ROAD ADJACENT TO SITE BOUNDARY.

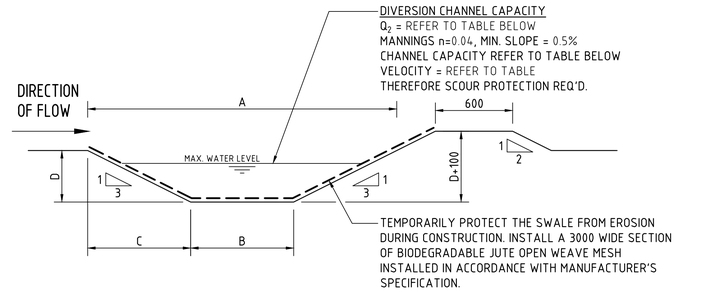


TYPICAL STOCKPILE DETAIL

N.T.S

STOCKPILE NOTES

1. PLACE ALL STOCKPILES IN LOCATIONS MORE THAN 5m FROM EXISTING VEGETATION, ROADS & HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT ELONGATED MOUNDS. SIDE SLOPE TO BE 1 V: 2 H MAX.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE STOCKPILES ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE USING WOOD CHIP MULCH - 16 TONNE/Ha.
5. CONSTRUCT SILT FENCE WITH CATCH DRAIN ON UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES & SILT FENCE ONLY 1 TO 2m DOWNSLOPE AS SHOWN.

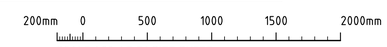


DIVERSION DRAIN SECTION

SCALE 1:20

DIVERSION DRAIN SCHEDULE

CATCHMENT (Ha)	Q_2 (l/s)	MANNINGS (n)	MIN SLOPE (%)	DIM 'A' (m)	DIM 'B' (m)	DIM 'C' (m)	DIM 'D' (m)	CHANNEL CAPACITY (l/s + 10% FREEBOARD)	VELOCITY (m/s)	SCOUR PROTECTION REQUIRED
C1 - 1.80Ha	78.96	0.04	0.50	2.40	0.30	1.05	0.35	274.093	0.548	NO
C2 - 3.15Ha	114.16	0.04	0.50	2.40	0.30	1.05	0.35	274.093	0.548	NO
C3A - 1.30Ha	133.97	0.04	0.50	2.40	0.30	1.05	0.35	274.093	0.548	NO
C3B - 3.50Ha	163.02	0.04	0.50	2.40	0.30	1.05	0.35	274.093	0.548	NO
C4 - 8.00Ha	260.43	0.04	0.50	2.60	0.50	1.05	0.35	274.093	0.572	NO
C5A - 7.30Ha	257.03	0.04	0.50	2.60	0.50	1.05	0.35	274.093	0.572	NO
C5B - 2.00Ha	109.62	0.04	0.50	2.40	0.30	1.05	0.35	274.093	0.548	NO



SCALE 1:20 AT B1 SIZE SHEET

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

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FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW250

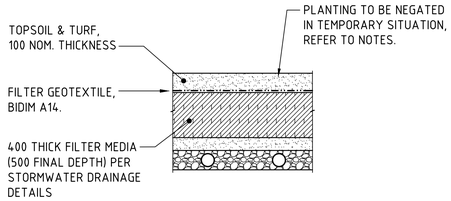
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DRAWING TITLE: EROSION AND SEDIMENT CONTROL DETAILS SHEET 1

DRAWING No: C013904.07-EW250

ISSUE: 0



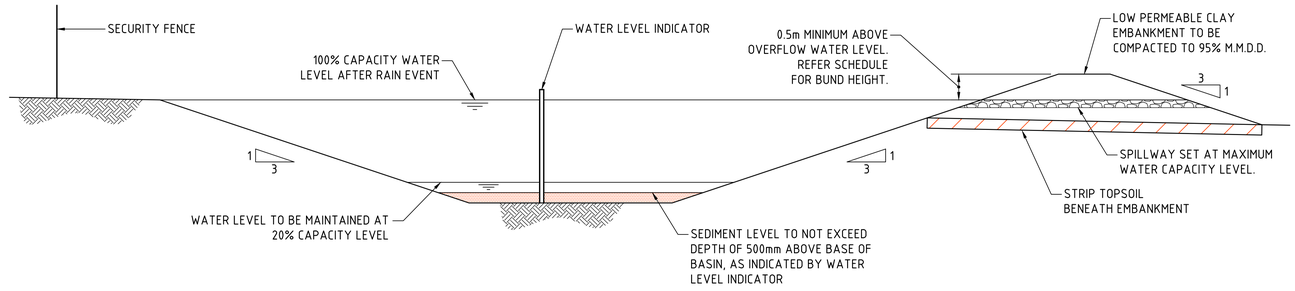
TEMPORARY BIO-RETENTION PROTECTION DETAIL

SCALE 1:20

TEMPORARY CONSTRUCTION REQUIREMENT DETAIL - PROVIDE 100mm TOPSOIL AND TEMPORARY EROSION PROTECTION (JUTEMASTER OR EQUIV) TO SWALE BATTER SLOPES AND ADJACENT LANDSCAPED AREAS. NOTE THAT NO TOPSOIL IS TO BE PLACED OVER FILTRATION MEDIA. PROVIDE SILT FENCE TO TOP OF BANK UNTIL SUCH TIME AS THIS STABILISING AND VEGETATION HAS BEEN COMPLETED.

BIO-RETENTION TO BE PARTIALLY INSTALLED, FOLLOWING COMPLETION OF EARTHWORKS, WITH THE TOP 75-100mm OF FILTER MEDIA REPLACED WITH A FINE TO COARSE SAND UNDERLAIN WITH A GEOTEXTILE LAYER (PER ABOVE DETAIL). FOLLOWING COMPLETION OF THE UPSTREAM DEVELOPMENT AND SITE STABILISATION, THE SAND IS TO BE REMOVED, REPLACED WITH FILTER MATERIAL AND PLANTED OUT. REFER TO BIO-RETENTION NOTES ON DRAWING C013904.03-SSDA454.

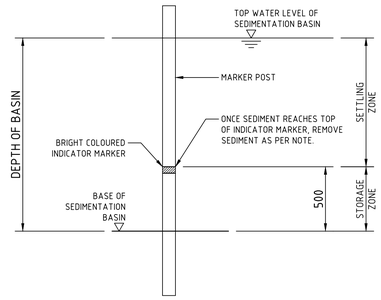
TEMPORARY BIO-RETENTION BASIN PROTECTION DETAILS



TYPICAL SEDIMENT CONTROL BASIN SECTION

SCALE 1:50

SPILLWAY DETAIL & SCHEDULE					
CATCHMENT (Ha)	FLOW (m^3/s)	WIDTH (mm)	FLOW DEPTH (mm)	ROCK SIZE (mm)	BUND HEIGHT ABOVE SPILLWAY (mm)
0.20	0.14	1000	200	-	600
0.5	0.2	2000	200	-	600
1	0.3	2000	200	-	700
2	0.6	4000	200	-	700
5	1.4	5000	300	200	800
10	2.8	8000	350	200	850
20	5.5	14000	400	250	900
40	11.0	20000	500	250	1000



SEDIMENT STORAGE MARKER

SCALE 1:20

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Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

2m 0 5 10 15 20 25m
SCALE 1:250 AT B1 SIZE SHEET

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

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FOR PRELIMINARY	25.03.25	A

AMENDMENTS	DATE	ISSUE

ARCHITECT
PACEARCHITECTS

CLIENT
AWJ

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW251

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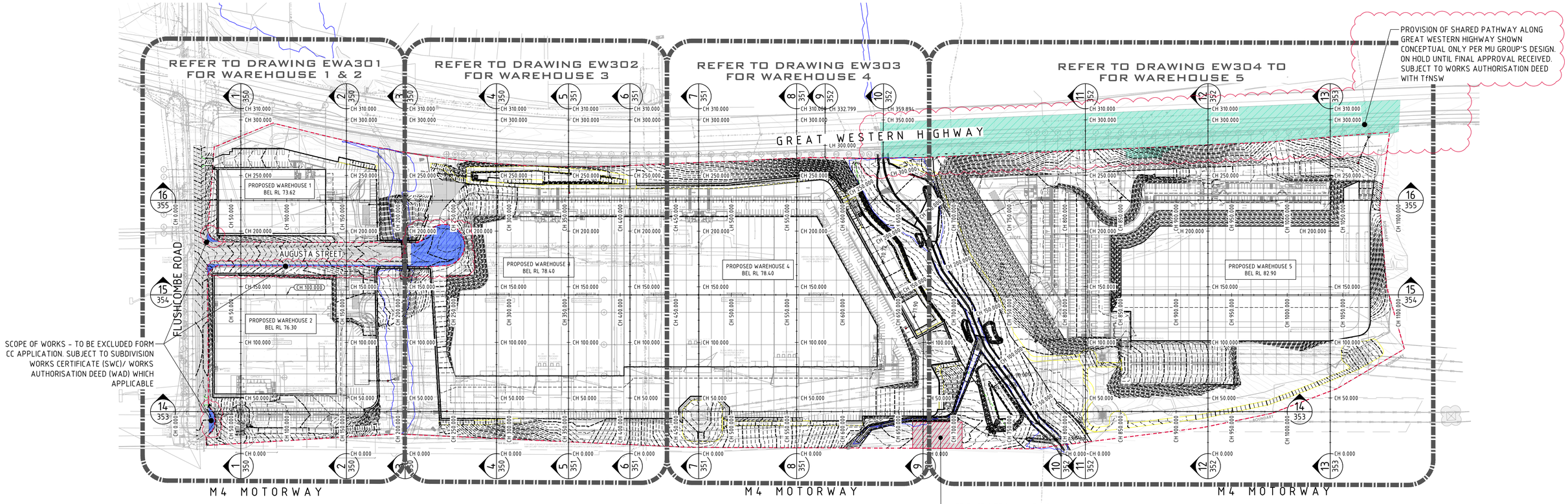
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DRAWING TITLE
EROSION AND SEDIMENT CONTROL DETAILS SHEET 2

DRAWING No C013904.07-EW251

ISSUE 0



BULK EARTHWORKS KEY PLAN
SCALE 1:1500

SITE PREPARATION NOTES:

1. ALL EARTHWORKS SHALL BE COMPLETED GENERALLY IN ACCORDANCE WITH THE GUIDELINES SPECIFIED BY THE GEOTECHNICAL REPORT PSM4636-006L (REV6) PROVIDED BY PSM CONSULT PTY LTD DATED 17/04/2024.
2. EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.12.1 DATED 29/08/2024.
3. STRIP ANY TOP SOIL OR DELETERIOUS MATERIAL AND DISPOSE OF FROM SITE OR STORE AS DIRECTED.
4. COMPLETE CUT TO FILL EARTHWORKS TO ACHIEVE THE REQUIRED LEVELS AS INDICATED ON THE DRAWINGS WITHIN A TOLERANCE OF +0mm/-10mm THROUGH BUILDING PADS/PAVEMENTS AND +0mm/-20mm ELSEWHERE.
5. PREPARE STEEP BATTERS TO RECEIVE FILL BY CONSTRUCTING BENCHING TO FACILITATE FILL PLACEMENT AND COMPACTION. WHERE EXPOSED ROCK (WEATHERED SHALE OR SANDSTONE) IS ENCOUNTERED AT CUT SUBGRADE LEVEL, THE EARTHWORKS CONTRACTOR IS TO ALLOW TO RIP THE SURFACE TO A NOMINAL 0.3-0.4m DEPTH AND RECOMPACT (PER THE ENGINEERING SPEC) AS REQUIRED.
6. AREAS TO RECEIVE FILL (THAT ARE NOT ON BENCHED BATTERS) AND AREAS IN CUT SHALL BE PROOF ROLLED TO IDENTIFY ANY SOFT HEAVING MATERIAL. SOFT MATERIAL SHALL BE BOXED OUT AND REMOVED PRIOR TO FILL PLACEMENT. PROOF ROLLING TO BE INSPECTED BY A GEOTECHNICAL ENGINEER OR THE EARTHWORKS DESIGNER.
7. SITE WON FILL SHALL BE COMPACTED IN MAXIMUM 300mm LAYERS AND TO DRY OR HILF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HILF MOISTURE VARIATION SHALL BE CONTROLLED TO BE BETWEEN 2% DRY AND 2% WET.
8. IMPORTED FILL SHALL BE COMPACTED IN MAXIMUM 300mm LAYERS AND TO DRY OR HILF DENSITY RATIOS (STANDARD COMPACTION) OF BETWEEN 98% AND 103%. THE PLACEMENT MOISTURE VARIATION OR HILF MOISTURE VARIATION SHALL BE CONTROLLED TO BE BETWEEN 2% DRY AND 2% WET.
9. ALL ENGINEERED FILL PARTICLES SHALL BE ABLE TO BE INCORPORATED WITHIN A SINGLE LAYER. FURTHER, LESS THAN 30% OF PARTICLES SHALL BE RETAINED ON THE 37.5 mm SIEVE. ENGINEERED FILL SHALL BE ABLE TO BE TESTED IN ACCORDANCE WITH THE STANDARD COMPACTION METHOD (AS1289.5.4.1) OR HILF TEST METHOD (AS1289.5.7.1). THESE METHODS REQUIRE LESS THAN 20% RETAINED ON THE 37.5 mm SIEVE. WHERE BETWEEN 20% AND 30% OF PARTICLES ARE RETAINED ON THE 37.5 mm SIEVE THE ABOVE TEST METHODS SHALL STILL BE ADOPTED AND TEST REPORTS ANNOTATED APPROPRIATELY. THESE REQUIREMENTS SHOULD BE MET BY THE MATERIAL AFTER PLACEMENT AND COMPACTION
10. ALL EARTHWORKS SHALL BE COMPLETED UNDER LEVEL 1 CONTROL IN ACCORDANCE WITH AS 3798-2007.
11. ALL THE EARTHWORKS UNDERTAKEN AND THE SUBGRADE CONDITION IN THE CUT AREAS (IN THE STATED PERIOD) ARE DOCUMENTED IN THE REPORTS AND HAVE BEEN UNDERTAKEN IN ACCORDANCE WITH THE SPECIFICATION.
12. PRIOR TO ANY EARTHWORKS, EROSION CONTROL AS OUTLINED IN THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE COMPLETED.
13. EXISTING ROCK, IF ANY, SHALL BE REMOVED BY HEAVY ROCK BREAKING OR RIPPING.
14. MATCH EXISTING LEVELS AT BATTER INTERFACE.
15. CONTRACTOR TO MATCH EXISTING LEVELS AT THE INTERFACE OF EARTHWORKS AND EXISTING SURFACE AT BATTER LOCATIONS OR WHERE NO RETAINING WALLS ARE PRESENT. ANY DISCREPANCY BETWEEN DESIGN AND EXISTING LEVELS TO BE REFERRED TO THE ENGINEER FOR DIRECTION OR ADJUSTMENTS TO DESIGN LEVELS.
16. DURING EARTHWORKS THE CONTRACTOR IS TO ENSURE ALL AREAS ARE FREE DRAINING & WILL NOT RETAIN WATER DURING RAINFALL. PROVIDE TEMPORARY MEASURES AS REQUIRED TO ENSURE FREE FLOWING RUNOFF THROUGH MANAGED DRAINAGE PATHS, DIVERSION DRAINS OR OTHER SUITABLE DISPOSAL METHOD AS AGREED DURING THE WORKS. REFER ANY CONCERNS TO THE ENGINEER. REFER TO EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES.
17. EXPOSED ROCK NOTES: ROCK EXPOSED WITH BULK EARTHWORKS NEED TO BE RIPPED AND RECOMPACTED TO DENSITIES STATED IN THE SITE PREPARATION NOTES TO AN APPROXIMATE DEPTH OF 1M.

EARTHWORK ESTIMATES

SITE AREA	= 27.4 Ha
DISTURBED AREA	= 24.6 Ha
TOPSOIL STRIP (200mm OVER 24.6 Ha)	=(-49,200m³) (TO BE EXPORTED/REUSED*)
CUT	= -275,210m³
FILL	= +349,450m³

DETAILED EXCAVATION

- EXTERNAL INTERSECTIONS	= -10,000m³
- OSD SPOIL (FUTURE BUILDING WORKS)	= -7,020m³
- RETAINING WALLS(EARLY WORKS)	= -5,870m³
- RETAINING WALLS(FUTURE BLDG. WORKS)	= -16,400m
- FUTURE BUILDING SPOIL (1400m³/ha)	
- LOT 1	= -1,680m³
- LOT 2	= -3,360m³
- LOT 3 & 4	= -15,740m³
- LOT 5	= -10,620m³
- AUGUSTA STREET AND FLUSHCOMBE ROAD	= -3,150m³
- FLUSHCOMBE ROAD (SERVICES ONLY) (1500m³/ha)	= -400m³
DIFFERENCE	= +0m³ (BALANCED)

NOTE:
VOLUMES BASED ON 200mm TOPSOIL STRIP OVER THE NOMINATED AREA.

A PORTION OF THE STRIPPED TOPSOIL TO BE REUSED/BLENDED IN LANDSCAPE SETBACK AREAS ONLY SUBJECT TO DISCUSSIONS WITH THE ENGINEER.

EARTHWORKS VOLUMES ARE APPROXIMATE ONLY.

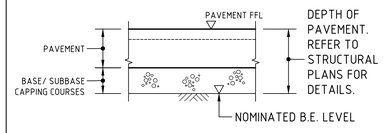
NO ALLOWANCE HAS BEEN MADE FOR DELETERIOUS MATERIAL, EROSION AND SEDIMENT CONTROL, DETAIL EXCAVATION, BULKING OR COMPACTION OF FILLED SOILS, THE REMOVAL OF UNCONTROLLED OR CONTAMINATED MATERIAL OR ANY OTHER UNSPECIFIED EXCAVATION RELATED TO CONSTRUCTION ACTIVITIES.

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.12.1 DATED 29/08/2024.

- 50.00 - EXISTING CONTOUR (0.5m INTERVAL)
- 50.00 - B.E.L. CONTOUR (MAJOR 5.0m)
- 50.25 - B.E.L. CONTOUR (MINOR 1.0m)
- +50.00 - B.E.L. SPOT LEVEL



DEPTH OF PAVEMENT. REFER TO STRUCTURAL PLANS FOR DETAILS.

NOMINATED B.E.L. DETAIL
NTS

NOTE:

1. REFER TO DRAWING EW310 FOR CUT & FILL PLAN.
2. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (REF: E-001759-23). REFER TO DRAWING EW156 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

FUTURE GWH WORKS INTERFACE NOTE:

PROVIDE SMOOTH INTERFACE BETWEEN THE PROPOSED DEVELOPMENT'S FINISHED SURFACE LEVELS AT THE BOUNDARY AND THE PROPOSED FINISHED SURFACE LEVELS OF THE SHARED PATHWAY ALONG THE GREAT WESTERN HIGHWAY DESIGNED BY MU GROUP. PROVIDE OPEN SWALE AT INTERFACE AS SHOWN TO DIRECT SURFACE RUNOFF TO THE NEAREST DISCHARGE POINT. NOT PART OF THE EARLY WORKS SCOPE OF WORKS.

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

Subdivision Works Certificate
Certificate Number: 250062SW01
Issuing Officer: Garry Ryan
Registration Number: BDC0565
These plans/specifications form part of the certificate issued: 24/10/2025
BARKER RYAN STEWART

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS DATE ISSUE

ARCHITECT
PACEARCHITECTS

CLIENT
AWJ

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW300

CONSULT AUSTRALIA

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COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
BULK EARTHWORKS KEY PLAN

DRAWING No C013904.07-EW300
ISSUE 1

EXISTING LEVELS TO BE RETAINED BELOW RETAINING WALLS TO RETAIN EXISTING TREES

PROPOSED RETAINING WALL IN FILL TO RETAIN TREES ALONG NORTHERN BOUNDARY

GREAT WESTERN HIGHWAY

SITE BOUNDARY

PROPOSED RETAINING WALL

IL 66.15

IL 66.20

AMPLITEL SITE.
WORKS ON THIS SITE FORM PART OF A SEPARATE DEVELOPMENT APPLICATION.

1m WIDE BASE, 0.50m DEEP SWALE WITH MAX 1V:3H SIDE SLOPES TO NEAREST DISCHARGE LOCATION

PROPOSED RETAINING WALL. LEVEL DIFFERENCE TO BE ADDRESSED WITH A TEMPORARY 1V:3H BATTER IN ACCORDANCE WITH PSM SPECIFICATIONS DURING THE EARLY WORKS PHASE.

PROPOSED WAREHOUSE 1
BEL RL73.62

PROVIDE A SMOOTH TRANSITION ALONG THE SPECIFIED EXTENT TO MATCH EXISTING LEVELS AND REDIRECT THE FLOW PATH TO THE EXISTING ALIGNMENT

1m WIDE BASE, 0.50m DEEP SWALE WITH MAX 1V:3H SIDE SLOPES TO NEAREST DISCHARGE LOCATION

FLUSHCOMBE ROAD

AUGUSTA STREET & FLUSHCOMBE ROAD WORKS SUBJECT TO SEPARATE CONTRACT.

PROPOSED TIERED RETAINING WALL IN FILL

NOT PART OF THE SCOPE OF WORKS. SUBJECT TO SUBDIVISION WORKS CERTIFICATE

AUGUSTA STREET

2.1m HIGH BLACK POWDER COATED PALISADE FENCING TO STREET FRONTAGE

1m WIDE BASE, 0.50m DEEP SWALE WITH MAX 1V:3H SIDE SLOPES TO NEAREST DISCHARGE LOCATION

AUGUSTA STREET & FLUSHCOMBE ROAD WORKS SUBJECT TO SEPARATE CONTRACT.

BREAKLINE - REFER TO DRAWING EW302 FOR CONTINUATION

NOT PART OF THE SCOPE OF WORKS. SUBJECT TO SUBDIVISION WORKS CERTIFICATE

PROVIDE 1V:3H TEMPORARY BATTER WALL TO BE CONSTRUCTED UNDER SEPARATE APPROVAL

PROPOSED TIERED RETAINING WALL IN FILL

PROVIDE A SMOOTH TRANSITION ALONG THE SPECIFIED EXTENT TO MATCH EXISTING LEVELS AND REDIRECT THE FLOW PATH TO THE EXISTING ALIGNMENT

AUGUSTA STREET & FLUSHCOMBE ROAD WORKS SUBJECT TO SEPARATE CONTRACT.

FLUSHCOMBE ROAD

PROPOSED SITE BOUNDARY

WAREHOUSE 2

PROPOSED WAREHOUSE 2
BEL RL76.30

PROPOSED RETAINING WALL. LEVEL DIFFERENCE TO BE ADDRESSED WITH A TEMPORARY 1V:3H BATTER IN ACCORDANCE WITH PSM SPECIFICATIONS DURING THE EARLY WORKS PHASE.

NOT PART OF THE SCOPE OF WORKS. SUBJECT TO SUBDIVISION WORKS CERTIFICATE

PROPOSED ACCESS TO EXISTING ELECTRICAL TOWERS

1% AEP EXTENT

M4 MOTORWAY

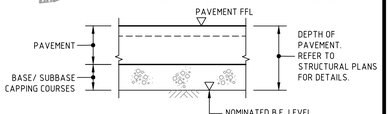
BULK EARTHWORKS PLAN - WAREHOUSE 1, 2 & WESTERN SWALE
SCALE 1:500

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.12.1 DATED 29/08/2024.

- REINFORCED EARTH WALL STRAPS
- PROPOSED ASPHALT PAVEMENT
- PROPOSED MAINTENANCE TRACK
- PROPOSED DRAINAGE LINE
- FUTURE DRAINAGE LINE
- 1% AEP EXTENT
- OPEN SWALE
- SITE BOUNDARY
- EXISTING CONTOUR (0.2m INTERVAL)
- B.E.L. CONTOUR (MAJOR 1.0m)
- B.E.L. CONTOUR (MINOR 0.25m)
- B.E.L. SPOT LEVEL
- PROPOSED STORMWATER DRAINAGE OUTLETS



NOMINATED B.E.L. DETAIL
NTS

NOTE:

1. REFER TO DRAWING EW300 FOR SITE PREPARATION NOTES.
2. REFER TO DRAWING EW310 FOR CUT & FILL PLAN.
3. REFER TO DRAWINGS EW350 TO EW355 FOR BULK EARTHWORKS SECTIONS.
4. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (REF: E-001759-23). REFER TO DRAWING EW156 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

FUTURE GWH INTERFACE NOTE:

PROVIDE SMOOTH INTERFACE BETWEEN THE PROPOSED DEVELOPMENT'S FINISHED SURFACE LEVELS AT THE BOUNDARY AND THE PROPOSED FINISHED SURFACE LEVELS OF THE SHARED PATHWAY ALONG THE GREAT WESTERN HIGHWAY DESIGNED BY MU GROUP. PROVIDE OPEN SWALE AT INTERFACE AS SHOWN TO DIRECT SURFACE RUNOFF TO THE NEAREST DISCHARGE POINT. NOT PART OF THE EARLY WORKS SCOPE OF WORKS

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

5m 0 10 20 30 40 50m

SCALE 1:500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	21.10.25	2
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

ARCHITECT
PACEARCHITECTS

CLIENT

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MS	B1	AS SHOWN	C013904.07-EW301

CONSULT AUSTRALIA

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COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
BULK EARTHWORKS PLAN - WAREHOUSE 1, 2 & WESTERN SWALE

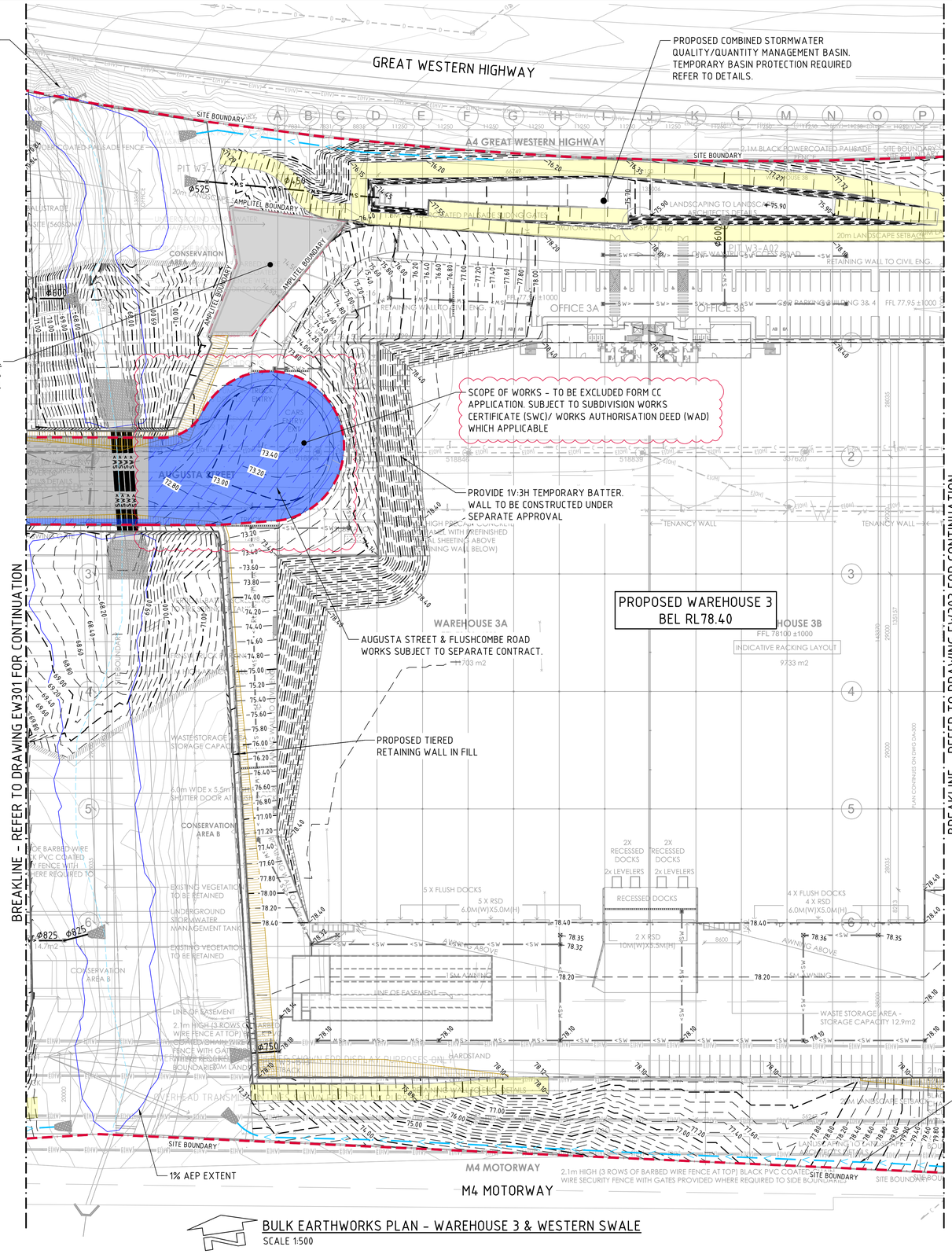
DRAWING No C013904.07-EW301

ISSUE 2

IT IS PROPOSED THAT THE EXISTING 3X1150 RCP CULVERTS (WITH 3X900MM DIA. BLOCK-OUTS) ARE EXTENDED BELOW THE PROPOSED NEW SHARED PATHWAY ALONG THE GREAT WESTERN HIGHWAY, TOWARDS THE PROPOSED DEVELOPMENT SITE, AS SHOWN. SHOWN CONCEPTUAL ONLY. SUBJECT TO CHANGE. NOT PART OF THE EARLY WORKS SCOPE OF WORKS.

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AMPLITEL SITE.
WORKS ON THIS SITE FORM PART OF A SEPARATE DEVELOPMENT APPLICATION.



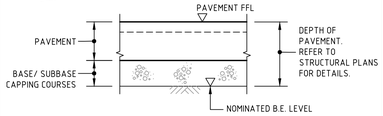
BULK EARTHWORKS PLAN - WAREHOUSE 3 & WESTERN SWALE
SCALE 1:500

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.12.1 DATED 29/08/2024.

- REINFORCED EARTH WALL STRAPS
- PROPOSED ASPHALT PAVEMENT
- PROPOSED MAINTENANCE TRACK
- PROPOSED DRAINAGE LINE
- FUTURE DRAINAGE LINE
- 1% AEP EXTENT
- OPEN SWALE
- SITE BOUNDARY
- EXISTING CONTOUR (0.2m INTERVAL)
- B.E.L. CONTOUR (MAJOR 1.0m)
- B.E.L. CONTOUR (MINOR 0.25m)
- B.E.L. SPOT LEVEL
- PROPOSED STORMWATER DRAINAGE OUTLETS



NOMINATED B.E.L. DETAIL
NTS

NOTE:

1. REFER TO DRAWING EW300 FOR SITE PREPARATION NOTES.
2. REFER TO DRAWING EW310 FOR CUT & FILL PLAN.
3. REFER TO DRAWINGS EW350 TO EW355 FOR BULK EARTHWORKS SECTIONS.
4. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (REF: E-001759-23). REFER TO DRAWING EW156 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

FUTURE GWH INTERFACE NOTE:

PROVIDE SMOOTH INTERFACE BETWEEN THE PROPOSED DEVELOPMENT'S FINISHED SURFACE LEVELS AT THE BOUNDARY AND THE PROPOSED FINISHED SURFACE LEVELS OF THE SHARED PATHWAY ALONG THE GREAT WESTERN HIGHWAY DESIGNED BY MU GROUP. PROVIDE OPEN SWALE AT INTERFACE AS SHOWN TO DIRECT SURFACE RUNOFF TO THE NEAREST DISCHARGE POINT. NOT PART OF THE EARLY WORKS SCOPE OF WORKS

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS	DATE	ISSUE

ARCHITECT
PACEARCHITECTS

CLIENT
AWJ

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW302

CONSULT AUSTRALIA

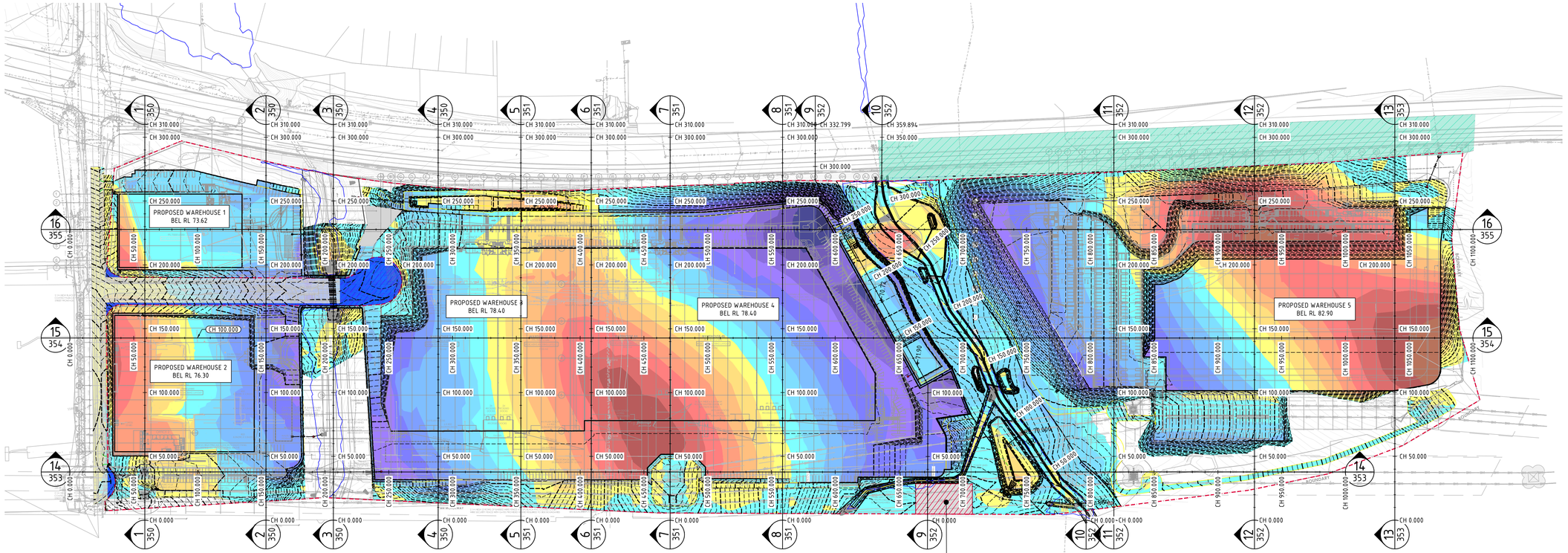
Costin Roe Consulting Pty Ltd.
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CRC COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
BULK EARTHWORKS PLAN
WAREHOUSE 3 & WESTERN SWALE

DRAWING No C013904.07-EW302

ISSUE 1



CUT/FILL PLAN
SCALE 1:1500

LEGEND:

- SITE BOUNDARY

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DEPTH RANGE			
	No.	FROM DEPTH	TO DEPTH	COLOUR
CUT	1	-11.000	-10.000	
	2	-10.000	-9.000	
	3	-9.000	-8.000	
	4	-8.000	-7.000	
	5	-7.000	-6.000	
	6	-6.000	-5.000	
	7	-5.000	-4.000	
	8	-4.000	-3.000	
	9	-3.000	-2.000	
	10	-2.000	-1.000	
	11	-1.000	0.000	
FILL	12	0.000	1.000	
	13	1.000	2.000	
	14	2.000	3.000	
	15	3.000	4.000	
	16	4.000	5.000	
	17	5.000	6.000	
	18	6.000	7.000	
	19	7.000	8.000	
	20	8.000	9.000	
	21	9.000	10.000	

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

15m 0 15 30 45 60 75 90 105 120 135 150m

SCALE 1:1500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
SWC/WAD AREAS CLOUDED	22.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS	DATE	ISSUE

ARCHITECT
PACEARCHITECTS

CLIENT
AWJ

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW310

CONSULT AUSTRALIA

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CRC COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
CUT/FILL PLAN

DRAWING No C013904.07-EW310

ISSUE 1

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

LEGEND:

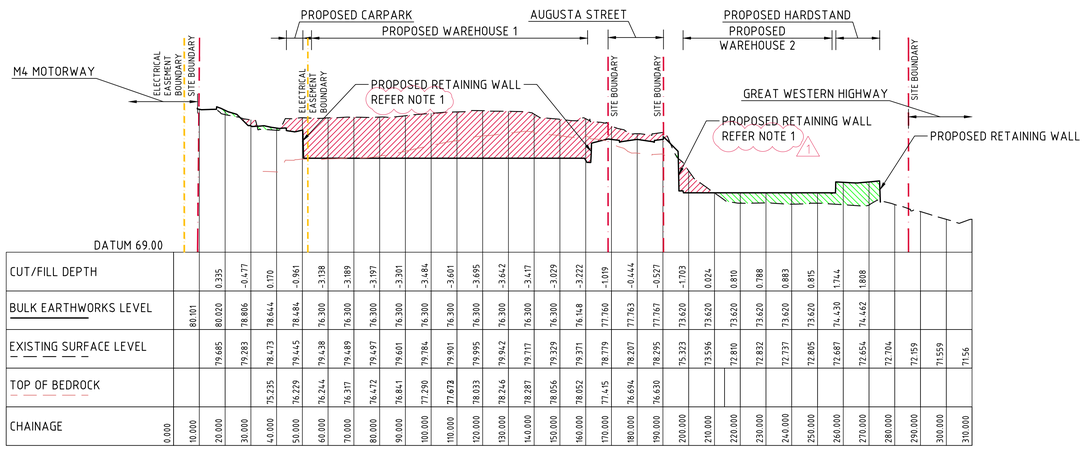
LEVELS ON TOP OF THE HARD ROCK ARE INTERPOLATED BETWEEN BOREHOLE LOCATIONS AND ARE INDICATIVE ONLY

NOTE:

1. LEVEL DIFFERENCE TO BE ADDRESSED WITH A TEMPORARY 1V:3H BATTER IN ACCORDANCE WITH PSM SPECIFICATIONS DURING THE EARLY WORKS PHASE.

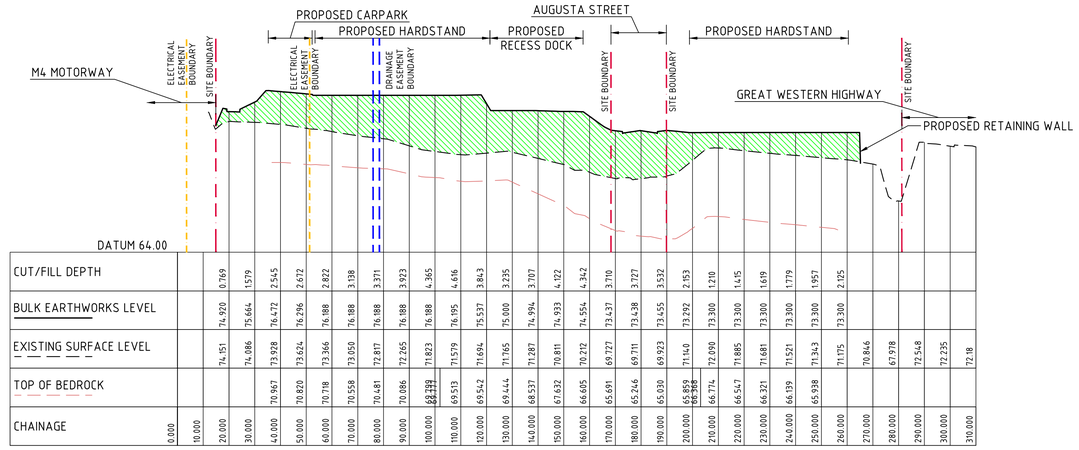
LEGEND:

- DENOTES BULK EARTHWORKS PROFILE
- DENOTES EXISTING PROFILE
- DENOTES TOP OF BEDROCK PROFILE
- DENOTES AREA IN CUT
- DENOTES AREA IN FILL
- DENOTES BULK ELECTRICAL EASEMENT BOUNDARY
- DENOTES DRAINAGE EASEMENT BOUNDARY
- DENOTES WATER EASEMENT BOUNDARY
- DENOTES OVERHEAD ELECTRICAL EASEMENT BOUNDARY
- DENOTES SITE BOUNDARY



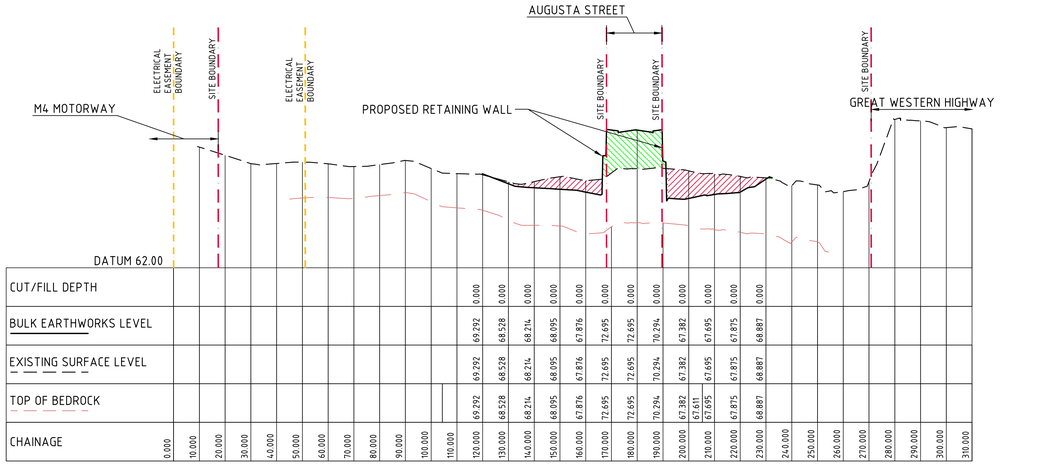
CHAINAGE	CUT/FILL DEPTH	BULK EARTHWORKS LEVEL	EXISTING SURFACE LEVEL	TOP OF BEDROCK
0.000		80.101	79.685	75.235
10.000	0.395	80.020	79.283	76.229
20.000	-0.477	78.896	78.473	76.244
30.000	0.170	78.644	78.445	76.317
40.000	-0.961	78.484	79.445	76.472
50.000	-3.138	76.300	79.438	76.641
60.000	-3.189	76.300	79.489	76.601
70.000	-3.197	76.300	79.497	76.784
80.000	-3.301	76.300	79.601	77.290
90.000	-3.484	76.300	79.784	77.672
100.000	-3.601	76.300	79.901	78.033
110.000	-3.695	76.300	79.995	78.246
120.000	-3.642	76.300	79.942	78.287
130.000	-3.417	76.300	79.717	78.056
140.000	-3.029	76.300	79.329	78.052
150.000	-3.222	76.148	79.371	77.415
160.000	-1.019	77.760	78.779	76.694
170.000	-0.444	77.763	78.207	76.630
180.000	-0.527	77.767	78.295	
190.000	-1.703	73.620	75.323	
200.000	0.024	73.620	73.596	
210.000	0.810	73.620	72.810	
220.000	0.788	73.620	72.832	
230.000	0.883	73.620	72.737	
240.000	0.815	73.620	72.805	
250.000	1.744	74.430	72.687	
260.000	1.808	74.462	72.654	
270.000			72.704	
280.000			72.159	
290.000			71.559	
300.000			71.556	
310.000				

SECTION 1
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



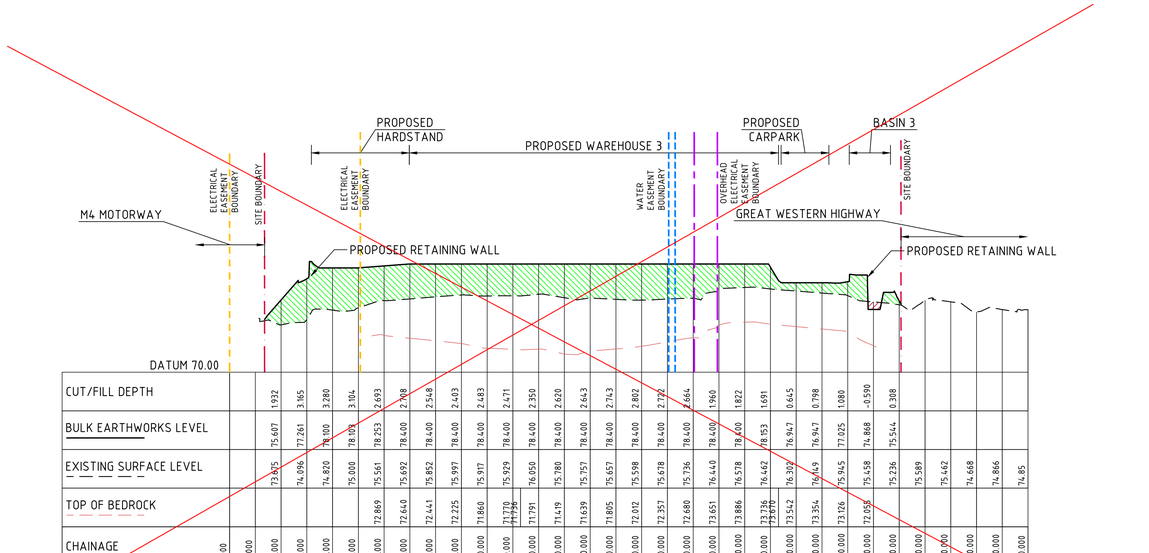
CHAINAGE	CUT/FILL DEPTH	BULK EARTHWORKS LEVEL	EXISTING SURFACE LEVEL	TOP OF BEDROCK
0.000		74.920	74.151	
10.000	0.769	75.644	74.986	
20.000	1.579	76.472	75.928	70.967
30.000	2.545	76.296	73.624	70.820
40.000	2.672	76.188	73.366	70.718
50.000	2.822	76.188	73.050	70.558
60.000	3.138	76.188	72.817	70.481
70.000	3.371	76.188	72.565	70.086
80.000	3.923	76.188	71.823	69.289
90.000	4.365	76.188	71.579	69.513
100.000	4.616	76.195	71.694	69.542
110.000	3.843	75.537	71.765	69.444
120.000	3.235	75.000	71.287	68.537
130.000	3.707	74.994	70.811	67.632
140.000	4.122	74.933	70.212	66.605
150.000	4.342	74.554	69.727	65.691
160.000	3.710	73.437	69.711	65.246
170.000	3.727	73.438	69.923	65.030
180.000	3.532	73.455	71.140	65.859
190.000	2.153	73.292	73.090	66.774
200.000	1.210	73.300	72.090	66.547
210.000	1.415	73.300	71.885	66.321
220.000	1.659	73.300	71.681	66.139
230.000	1.779	73.300	71.521	65.938
240.000	1.957	73.300	71.343	65.775
250.000	2.125	73.300	71.175	
260.000			70.846	
270.000			61.978	
280.000			72.548	
290.000			72.235	
300.000			72.18	
310.000				

SECTION 2
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



CHAINAGE	CUT/FILL DEPTH	BULK EARTHWORKS LEVEL	EXISTING SURFACE LEVEL	TOP OF BEDROCK
0.000				
10.000				
20.000				
30.000				
40.000				
50.000				
60.000				
70.000				
80.000				
90.000				
100.000				
110.000				
120.000	0.000	69.292	69.292	69.292
130.000	0.000	68.528	68.528	68.528
140.000	0.000	68.214	68.214	68.214
150.000	0.000	68.095	68.095	68.095
160.000	0.000	67.876	67.876	67.876
170.000	0.000	72.695	72.695	72.695
180.000	0.000	72.695	72.695	72.695
190.000	0.000	70.294	70.294	70.294
200.000	0.000	67.382	67.382	67.382
210.000	0.000	67.695	67.695	67.611
220.000	0.000	67.875	67.875	67.695
230.000	0.000	68.887	68.887	67.875
240.000				68.887
250.000				
260.000				
270.000				
280.000				
290.000				
300.000				
310.000				

SECTION 3
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



CHAINAGE	CUT/FILL DEPTH	BULK EARTHWORKS LEVEL	EXISTING SURFACE LEVEL	TOP OF BEDROCK
0.000				
10.000				
20.000	1.932	75.607	73.305	
30.000	3.165	77.261	74.096	
40.000	3.280	78.100	74.820	
50.000	3.104	78.100	75.000	
60.000	2.693	78.253	75.561	72.869
70.000	2.408	78.400	75.692	72.640
80.000	2.548	78.400	75.852	72.441
90.000	2.403	78.400	75.997	72.225
100.000	2.483	78.400	75.917	71.860
110.000	2.471	78.400	75.929	71.170 71.798
120.000	2.350	78.400	76.050	71.791
130.000	2.620	78.400	75.780	71.419
140.000	2.643	78.400	75.757	71.639
150.000	2.743	78.400	75.657	71.805
160.000	2.802	78.400	75.598	72.012
170.000	2.722	78.400	75.678	72.357
180.000	2.664	78.400	75.736	72.680
190.000	1.960	78.400	76.440	73.651
200.000	1.822	78.400	76.578	73.886
210.000	1.691	78.453	76.642	73.736 73.870
220.000	0.645	76.947	76.302	73.542
230.000	0.798	76.947	76.149	73.354
240.000	1.080	77.025	75.945	73.126
250.000	-0.590	74.868	75.458	72.058
260.000	0.308	75.544	75.236	
270.000			75.589	
280.000			75.442	
290.000			74.668	
300.000			74.886	
310.000			74.85	

SECTION 4
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

The only retaining walls approved under this Subdivision Works Certificate are Retaining Wall 1E in its entirety, and Retaining Wall 2D between chainages 134 and 181 only. All other retaining walls are not approved under this SWC. Where retaining walls have not been approved, temporary batters are to be provided in accordance with the PSM Specification.

2m 0 5 10 15 20m
SCALE 1:200 AT B1 SIZE SHEET

10m 0 10 20 30 40 50 60 70 80 90 100m
SCALE 1:1000 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	21.10.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

ARCHITECT: PACE ARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MS	B1	AS SHOWN	C013904.07-EW350

CONSULT AUSTRALIA

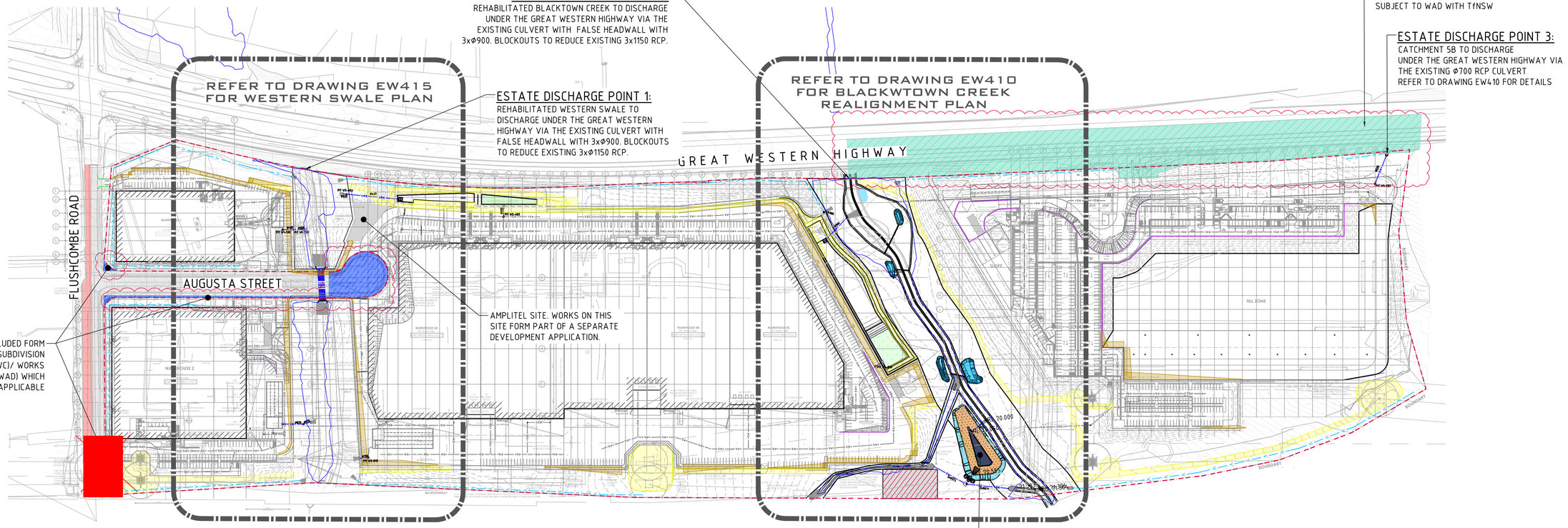
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CRC COSTIN ROE CONSULTING — CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: BULK EARTHWORKS SECTION - SHEET 1

DRAWING No: C013904.07-EW350

ISSUE: 1



The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

STORMWATER DRAINAGE KEY PLAN
SCALE 1:1500

STORMWATER DRAINAGE NOTES:

1. ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500.3 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
2. THE MINOR (PIPED) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 20 YEAR ARI STORM EVENT AND THE MAJOR (OVERLAND) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI STORM EVENT.
3. ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS C013904.03-EW301 TO EW304.
4. PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
5. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
6. PUBLIC DOMAIN DRAINAGE TO BE MIN. CLASS 3 UNDER KERBS, AND CLASS 4 FOR PIPES CROSSING ROADS. ALL BEEING TO BLACKTOWN COUNCIL SPECIFICIATIONS OR MINIMUM HS2. MINIMUM SIZE 375mm.

7a. ALL PRIVATE STORMWATER PIPES Ø375 OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.

7b. ALL PRIVATE PIPES UP TO AND INCLUDING Ø300 TO BE uPVC GRADE SN8 UNO.

8. PIPE CLASS NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
9. ALL CONCRETE PITS GREATER THAN 1000mm DEEP SHALL BE REINFORCED USING N12-200 EACH WAY CENTERED IN WALL AND BASE. LAP MINIMUM 300mm WHERE REQUIRED. ALL CONCRETE FOR PITS SHALL BE F'c=25 MPa. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
10. IN ADDITION TO ITEM 9 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
11. PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAM AND PACK FILLING AROUND AND UNDER BACK OF PIPES AND PIPE FAUCETS, WITH NARROW EDGED RAMMERS OR OTHER SUITABLE TAMPING DETAILS.
12. CONCRETE PIPES UNDER, OR WITHIN THE ZONE OF INFLUENCE OF PAVED AREAS SHALL BE LAID USING HS2 TYPE SUPPORT, AS A MINIMUM, IN ACCORDANCE WITH AS 3725. AGGREGATE BACKFILL SHALL NOT BE USED FOR PIPE BEDDING AND OR HAUNCH/SIDE SUPPORT.
13. WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED Ø100 uPVC TO EACH SIDE OF PIPE.
14. ALL SUBSOIL DRAINAGE LINES SHALL BE Ø100 SLOTTED uPVC WITH APPROVED FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOIL LINES TO MATCH FALLS OF LAND AND/OR 1 IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAVEMENT/ LANDSCAPED INTERFACES, TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEER) AND AS SHOWN ON PLAN.
15. WHERE SUBSOIL DRAINAGE PASSES UNDER A PAVEMENT OR A SLAB, UNSLOTTED UPVC ARE TO BE PROVIDED UNLESS NOTED OTHERWISE.
16. ALL PIPE GRADES 1 IN 200 MINIMUM UNO.
17. PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
18. MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
19. PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS D 'HEAVY DUTY', THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' U.N.O.
20. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
21. DOWN PIPES (DP) TO BE AS PER HYDRAULIC ENGINEERS DETAILS WITH CONNECTOR TO MATCH DP SIZE U.N.O. ON PLAN. PROVIDE CLEANING EYE AT GROUND LEVEL.
22. PIPE LENGTHS NOMINATED ON PLAN OR LONGSECTIONS ARE MEASURED FROM CENTER OF PITS TO THE NEAREST 0.5m AND DO NOT REPRESENT ACTUAL LENGTH. THE CONTRACTOR IS TO ALLOW FOR THIS.
23. WHERE CONNECTION TO EXISTING INGROUND DRAINAGE SYSTEMS, OPEN SWALES, CHANNELS OR ANY OTHER EXISTING SYSTEM, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND INVERT ON SITE AT THE BEGINNING OF THE CONSTRUCTION PERIOD. REFER ANY VARIANCE FROM DOCUMENTATION OR SURVEYS TO THE ENGINEER FOR CLARIFICATION.

FUTURE GWH WORKS INTERFACE NOTE:

PROVIDE SMOOTH INTERFACE BETWEEN THE PROPOSED DEVELOPMENT'S FINISHED SURFACE LEVELS AT THE BOUNDARY AND THE PROPOSED FINISHED SURFACE LEVELS OF THE SHARED PATHWAY ALONG THE GREAT WESTERN HIGHWAY DESIGNED BY MU GROUP. PROVIDE OPEN SWALE AT INTERFACE AS SHOWN TO DIRECT SURFACE RUNOFF TO THE NEAREST DISCHARGE POINT. NOT PART OF THE EARLY WORKS SCOPE OF WORKS.

NOTES:

1. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (REF: E-001759-23). REFER TO DRAWING EW156 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

Subdivision Works Certificate

Certificate Number: 250062SW01
Issuing Officer: Garry Ryan
Registration Number: BDC0565
These plans/specifications form part of the certificate issued: 24/10/2025
BARKER RYAN STEWART

LEGEND:

- FRESHWATER WETLAND
- EMERGENT ZONE
- DEEP WATER ZONE
- PROPOSED BIO-RETENTION ZONE
- PROPOSED MAINTENANCE TRACK
- REINFORCED EARTH WALL STRAPS
- SITE BOUNDARY

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- PROPOSED DRAINAGE LINE
- OPEN SWALE
- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 1.0m INTERVALS
- 50.25 - FINISHED PAVEMENT CONTOUR (MINOR) 0.25m INTERVALS
- 1% AEP EXTENT

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
SWC/WAD AREAS CLOUDED	25.07.25	2
BLACKTOWN CREEK FFL REVISIONS	27.05.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS DATE ISSUE

ARCHITECT: PACEARCHITECTS
CLIENT: AWJ
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW400

CONSULT AUSTRALIA

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CRC COSTIN ROE CONSULTING | CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: STORMWATER DRAINAGE KEY PLAN
DRAWING No: C013904.07-EW400
ISSUE: 2

ESTATE DISCHARGE POINT 1:

REHABILITATED WESTERN SWALE TO DISCHARGE UNDER THE GREAT WESTERN HIGHWAY VIA THE EXISTING CULVERT WITH FALSE HEADWALL WITH 3xø900. BLOCKOUTS TO REDUCE EXISTING 3xø1150 RCP.

ENERGY DISSIPATER 2 REFER TO EW452

INV. 66.15

INV. 66.20

1m WIDE BASE, 0.50m DEEP SWALE WITH MAX 1V:3h SIDE SLOPES TO NEAREST DISCHARGE LOCATION

PROVISION OF SHARED PATHWAY ALONG GREAT WESTERN HIGHWAY SHOWN CONCEPTUAL ONLY PER MU GROUP'S DESIGN. ON HOLD UNTIL FINAL APPROVAL RECEIVED.

ø450
US IL 72.99
DS IL 72.50
42.7m @ 1.1%

SITE BOUNDARY

1% AEP FLOW
5.82m³/s

PIT W3-A03

ø450

ø525

4 GREAT WESTERN HIGHWAY

2.1M BLACK POWDERCOATED PALISADE FENCE

ENERGY DISSIPATER 1 REFER TO EW452

ENERGY DISSIPATER 3 REFER TO EW452

ENERGY DISSIPATER 4 REFER TO EW452

PROPOSED WAREHOUSE 1
RL73.92

ø450
US IL 66.95
DS IL 66.83
2.5 m @ 4.8%

CONSERVATION AREA A

PIT W1-A08A

PIT W1-A08

PIT W1-A09

PIT W1-B03A

PIT W3-B03

PIT W3-B02

PIT W3-B01

PIT W3-A02B

PIT W3-A02A

PIT W3-A01B

PIT W3-A01A

ø600

ø300

ø375

ø450

ENERGY DISSIPATER 11 REFER TO EW452

RETAINING WALL TO CIVIL ENG.

OFFICE 3A

GSW PARKING BUILDING 3& 4
FFL 77.95 ±1000

20m LANDSCAPE SETBACK

OSD INVERT LEVEL AT DISCHARGE RL 71.35

ø600
US IL 70.69
DS IL 68.89
32.0m @ 5.6%

PIT W1-L02

PIT W1-L03

ø610

ø800

REALIGN FLOW PATH FROM NEW CULVERT STRUCTURE TO EXISTING WESTERN SWALE FLOW PATH IN THE EXTENT SHOWN. REMAINDER OF WESTERN SWALE TO REMAIN TO CONSERVE TREES WHERE POSSIBLE.

ENERGY DISSIPATER 5 REFER TO EW452

PIT W3-B04

PIT W3-B05

PIT W1-B02

PIT W1-B03

PIT W1-B03A

AUGUSTA STREET

PIT W2-B03

PIT W2-B04

PIT W2-B05

PIT W2-B06

PIT W2-B07

PIT W2-B08

PIT W2-A01

PIT W2-A02

PIT W2-A03

PIT W2-A04B

PIT W2-A04A

PIT W2-A04

PIT W2-A05

PIT W2-A06

PIT W2-A07

PIT W2-A08

PIT W2-A09

PIT W2-A10

PIT W2-B09

PIT W2-B10

PIT W2-B11

PIT W2-B12

PIT W2-B13

PIT W3-B09

PIT W3-B10

PIT W3-B11

PIT W3-B11A

PIT W3-C05

PIT W3-C04B

PIT W3-C04A

PIT W3-C04

PIT W3-C03A

PIT W3-C02B

PIT W3-C02A

PIT W3-C01

PIT W3-C02

PROPOSED 4xø825mm RCP CULVERTS TO BE CONSTRUCTED AS PART OF AUGUSTA STREET ROAD WORKS.

CONTRACTOR TO ALLOW FOR STAGED CONSTRUCTION OF WALLS 3 AND 14. TIMING SUBJECT TO ROADWORKS APPROVALS, REFER ELEVATIONS.

2400mm HIGH PRECAST CONCRETE DADO PANEL WITH PREFINISHED METAL SHEETING ABOVE

SCOPE OF WORKS - TO BE EXCLUDED FORM CC APPLICATION. SUBJECT TO SUBDIVISION WORKS CERTIFICATE (SWC)/ WORKS AUTHORISATION DEED (WAD) WHICH APPLICABLE

WAREHOUSE 3A
FFL 78100 ±1000
INDICATIVE RACKING LAYOUT

PROPOSED WAREHOUSE 3
RL78.70

WAREHOUSE 3B
FFL 78.00 ±1000
INDICATIVE RACKING LAYOUT
9733 m2

TENANCY WALL

ENERGY DISSIPATER 6 REFER TO EW452

REALIGN FLOW PATH TO NEW CULVERT STRUCTURE FROM EXISTING WESTERN SWALE FLOW PATH IN THE EXTENT SHOWN. REMAINDER OF WESTERN SWALE TO REMAIN TO CONSERVE TREES WHERE POSSIBLE.

PROPOSED WAREHOUSE 2
RL76.60

ø825
US IL 70.05
DS IL 69.94
11.0 m @ 5.0%

ø825
US IL 71.35
DS IL 70.21
17.2 m @ 6.6%

ø825 ø825

PROVIDE STUB FOR FUTURE CONNECTION

ENERGY DISSIPATER 7 REFER TO EW452

ENERGY DISSIPATER 8 REFER TO EW452

ø750
US IL 71.90
DS IL 71.8
6.5 m @ 0.5%

ø750

1m WIDE BASE, 0.50m DEEP SWALE WITH MAX 1V:3h SIDE SLOPES TO NEAREST DISCHARGE LOCATION

1% AEP FLOW
6.49m³/s

ENERGY DISSIPATER 9 REFER TO EW452

ENERGY DISSIPATER 10 REFER TO EW452

SITE BOUNDARY

1% AEP EXTENT

PROVIDE SMOOTH TRANSITION BETWEEN EXISTING FLOW PATH FROM MOTORWAY AND REHABILITATED CREEK CROSS SECTION. MATCH LEVELS AND CROSS SECTION ALLOWING FOR A MINIMUM 1:5 TRANSITION LENGTH. FINAL ARRANGEMENT SUBJECT TO SITE CONDITION AND ON-SITE VERIFICATION.

M4 MOTORWAY

T.O.W
RL 73.26

ø1800 RCP
INV:70.89

EXISTING 1800ø RCP AT IL=70.89m AHD. MATCH INVERT AND PROVIDE SMOOTH CONNECTION. CONFIRM INVERT LEVEL BY SURVEY PRIOR TO WORKS

M4 MOTORWAY

2.1m HIGH (3 ROWS OF BARBED WIRE FENCE AT TOP) BLACK PVC COATED CHAIN WIRE SECURITY FENCE WITH GATES PROVIDED WHERE REQUIRED TO SIDE BOUNDARIES

SITE BOUNDARY

WESTERN CREEK PLAN

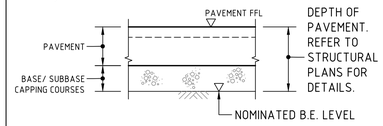
SCALE 1:500

LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- OVERLAND FLOW DIRECTION
- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- REINFORCED EARTH WALL STRAPS
- PROPOSED MAINTENANCE TRACK
- PROPOSED BIO-RETENTION ZONE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED DRAINAGE LINE
- FUTURE ESTATE DRAINAGE LINE
- ROAD DRAINAGE LINE
- 1% AEP EXTENT
- OPEN SWALE
- SITE BOUNDARY
- EXISTING CONTOUR (0.2m INTERVAL)
- B.E.L. CONTOUR (MAJOR 1.0m)
- B.E.L. CONTOUR (MINOR 0.25m)
- B.E.L. SPOT LEVEL



DEPTH OF PAVEMENT. REFER TO STRUCTURAL PLANS FOR DETAILS.

NOMINATED B.E.L. DETAIL

NTS

FUTURE GWH WORKS INTERFACE NOTE:

PROVIDE SMOOTH INTERFACE BETWEEN THE PROPOSED DEVELOPMENT'S FINISHED SURFACE LEVELS AT THE BOUNDARY AND THE PROPOSED FINISHED SURFACE LEVELS OF THE SHARED PATHWAY ALONG THE GREAT WESTERN HIGHWAY DESIGNED BY MU GROUP. PROVIDE OPEN SWALE AT INTERFACE AS SHOWN TO DIRECT SURFACE RUNOFF TO THE NEAREST DISCHARGE POINT. NOT PART OF THE EARLY WORKS SCOPE OF WORKS

NOTES:

1. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (REF: E-001759-23). REFER TO DRAWING EW156 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

The only retaining walls approved under this Subdivision Works Certificate are Retaining Wall 1E in its entirety, and Retaining Wall 2D between chainages 134 and 181 only. All other retaining walls are not approved under this SWC. Where retaining walls have not been approved, temporary batters are to be provided in accordance with the PSM Specification.

The headwall and energy dissipation required as part of the culvert crossing approved as part of the roads act approval are included as part of this Subdivision Works Certificate.

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

5m 0 10 20 30 40 50m

SCALE 1:500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW415

CONSULT AUSTRALIA

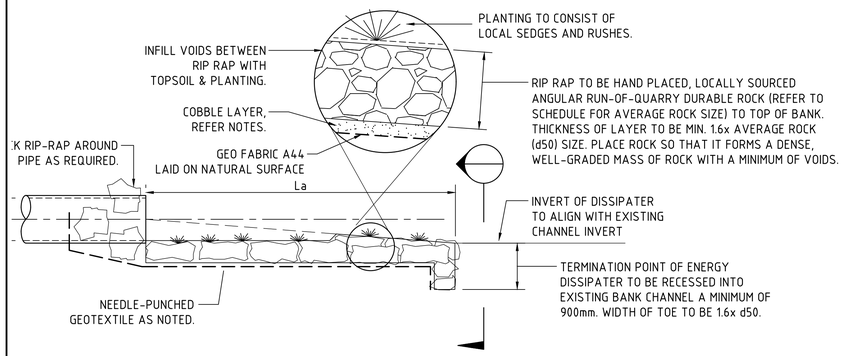
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DRAWING TITLE: WESTERN SWALE PLAN

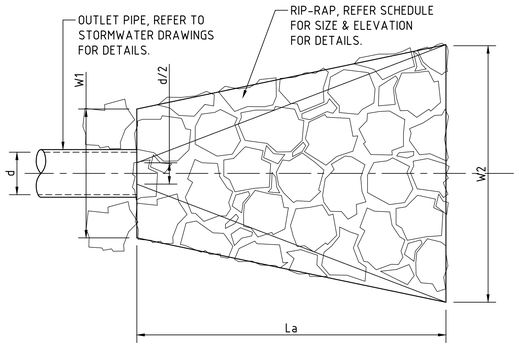
DRAWING No: C013904.07-EW415

ISSUE: 1

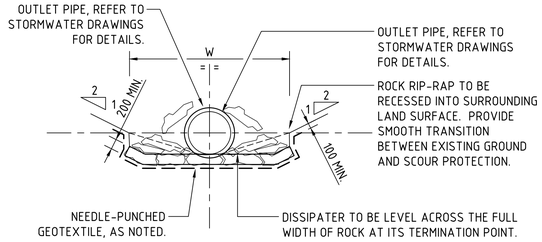
STORMWATER OUTLET DISSIPATER



ELEVATION
SCALE 1:50



PLAN
SCALE 1:50



SECTION 1:50 (1 / -)

DISSIPATER NOTES:

1. ALIGN STRUCTURE EVENLY WITH BANK.
2. LOCATE STRUCTURE AT INVERT LEVEL OF STREAM AND POINT IN A DOWNSTREAM DIRECTION.
3. PIPE TO REST ON, AND BE PACKED IN, BY RIP-RAP (SIZE AS NOTED).
4. DISCHARGE INTO STREAM WHERE BEDROCK IS PRESENT, OTHERWISE SCOUR PROTECT AS REQUIRED.
5. SCOUR PROTECT THE OPPOSITE BANK AS REQUIRED. SCOUR PROTECTION TO BE PROVIDED WHERE OPPOSITE BANK IS WITHIN 12-14 TIMES THE PIPE DIAMETER.
6. RIP-RAP TO CONSIST OF ANGULAR RUN-OF-QUARRY ROCK (d50= 150mm MINIMUM) AS NOTED IN THE SCHEDULE. RIP-RAP TO BE MINIMUM THICKNESS OF RIP-RAP LAYER TO BE 1.6x AVERAGE ROCK SIZE (d50).
7. RIP-RAP IS TO BE PLACED OVER A 200mm LAYER OF 140mm COBBLES OVER NEEDLE-PUNCHED GEOFAB A44.
8. PLACE ROCK SO THAT IT FORMS A DENSE, WELL-GRADED MASS OF ROCK WITH A MINIMUM OF VOIDS. THE FINISHED RIP-RAP SURFACE SHOULD BE FREE OF POCKETS OF SMALL ROCK OR CLUSTERS OF LARGE ROCKS.
9. GAPS IN RIP-RAP TO BE HAND PACKED WITH TOPSOIL & PLANTED WITH NATIVE SEDGES & RUSHES TO PROVIDE. THE INTENT IS FOR THERE TO BE NO VOIDS BETWEEN RIP-RAP BOULDERS.
10. ENSURE THE FINISHED ROCK SURFACE BLENDS WITH THE SURROUNDING GROUND LEVELS. NO OVERFALL OR PROTRUSION OF ROCK SHOULD BE APPARENT.
11. ENSURE THAT STORMWATER FROM SURROUNDING GROUND IS FREE TO ENTER THE STRUCTURE WITHOUT CAUSING UNDESIRABLE PONDING OR SCOUR.

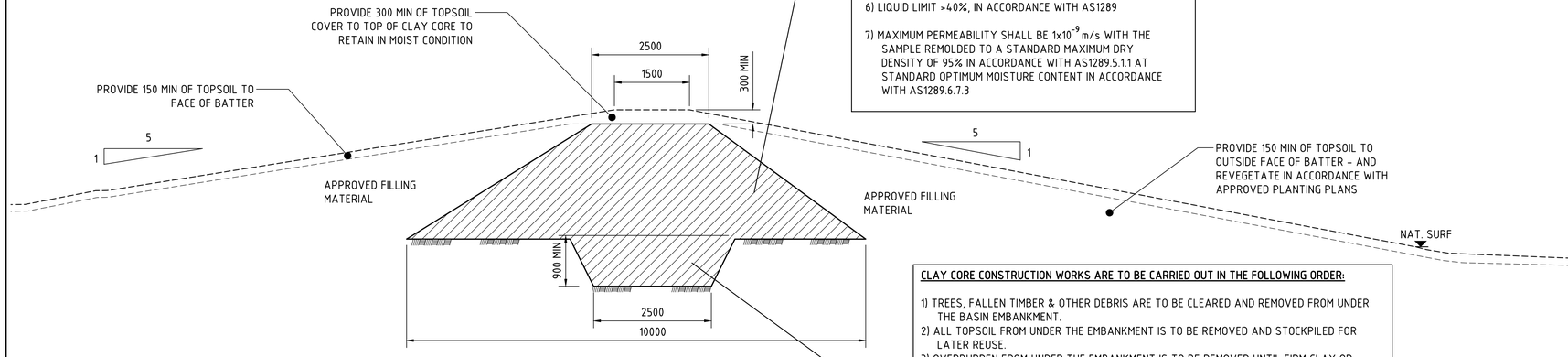
DISSIPATER SCHEDULE

ENERGY DISSIPATER	DIAMETER(mm)/DIMENSIONS	LENGTH La (mm)	WIDTH 1 (mm)	WIDTH 2 (mm)	RIP-RAP (d50)
1	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
2	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
3	450Ø	1800	1100	1200	200
4	600Ø	4500	1400	2600	100
5	4x825Ø	3000	4000	4000	200
6	OVERLAND FLOW	3000	4000	4000	200
7	825Ø	3300	1500	2200	100
8	825Ø	5000	1500	2900	200
9	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
10	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
11	600Ø	3600	1200	2100	200
12	900Ø	3600	1500	2400	100
13	OVERLAND FLOW	2700	5600	6100	200
14	750Ø	7500	1400	3800	500
15	375Ø	7500	1400	3800	500
16	OVERLAND FLOW	5600	5200	6800	200
17	OVERLAND FLOW	2700	4000	4500	200
18	900Ø	7200	1500	3800	300
19	OVERLAND FLOW	2700	4000	4500	200
20	300Ø AND 900Ø	7200	1800	4100	200
21	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
22	OVERLAND FLOW	2700	10600	11100	400
23	OVERLAND FLOW	2700	5600	6100	200
24	OVERLAND FLOW	2700	4000	4500	200
25	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
26	525Ø AND WIDTH 4m, DEPTH 0.5m	5600	5200	6800	100

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

The only retaining walls approved under this Subdivision Works Certificate are Retaining Wall 1E in its entirety, and Retaining Wall 2D between chainages 134 and 181 only. All other retaining walls are not approved under this SWC. Where retaining walls have not been approved, temporary batters are to be provided in accordance with the PSM Specification.

The headwall and energy dissipation required as part of the culvert crossing approved as part of the roads act approval are included as part of this Subdivision Works Certificate.



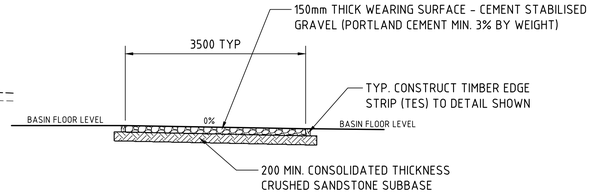
TYPICAL DETAIL - BASIN CLAY CORE AND EMBANKMENT
SCALE 1:50

CLAY CORE MATERIAL COMPLIANCE NOTES:

1) THE MATERIAL SHALL BE FREE OF ROCK GREATER THAN 50mm IN ANY DIRECTION.
2) THE MATERIAL SHALL BE GENERALLY FREE OF TOPSOIL, ORGANIC AND ROOT MATTER.
3) THE MATERIAL SHALL HAVE NO MORE THAN 10% EXCEEDING 19mm PARTICLE SIZE.
4) THE MATERIAL SHALL HAVE THE PERCENTAGE FINE (PASSING 0.075mm SIEVE) MORE THAN 50 % (IN ACCORDANCE WITH AS1289)
5) THE PLASTICITY INDEX >20%, IN ACCORDANCE WITH AS1289
6) LIQUID LIMIT >40%, IN ACCORDANCE WITH AS1289
7) MAXIMUM PERMEABILITY SHALL BE $1x10^{-9}$ m/s WITH THE SAMPLE REMOLDED TO A STANDARD MAXIMUM DRY DENSITY OF 95% IN ACCORDANCE WITH AS1289.5.1.1 AT STANDARD OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH AS1289.6.7.3

CLAY CORE CONSTRUCTION WORKS ARE TO BE CARRIED OUT IN THE FOLLOWING ORDER:

1) TREES, FALLEN TIMBER & OTHER DEBRIS ARE TO BE CLEARED AND REMOVED FROM UNDER THE BASIN EMBANKMENT.
2) ALL TOPSOIL FROM UNDER THE EMBANKMENT IS TO BE REMOVED AND STOCKPILED FOR LATER REUSE.
3) OVERBURDEN FROM UNDER THE EMBANKMENT IS TO BE REMOVED UNTIL FIRM CLAY OR BEDROCK IS HAS BEEN EXPOSED.
4) A CORE TRENCH OF AT LEAST 900mm DEEP IS TO BE EXCAVATED INTO IMPERMEABLE, STABLE FOUNDATION MATERIAL CONSISTING OF EITHER CLAY OR BEDROCK.
5) THE STRIPPED AREA BELOW THE EMBANKMENT IS TO BE SLIGHTLY SCARIFIED TO A DEPTH NOT EXCEEDING 100mm.
6) THE CLAY CORE MUST BE CENTRALLY PLACED AND EXTEND FOR THE FULL LENGTH AND HEIGHT OF THE BANK.
7) CLAY CORE TO BE LAYED IN LIFTS OF NO MORE THAN 250mm, EACH LAYER IS TO BE COMPACTED WITH A SHEEPS FOOT ROLLER, TO ACHIEVE A MIN DRY DENSITY RATIO OF AT LEAST 95% STANDARD (IN ACCORDANCE WITH AS1289.5.1.1 AND 5.4.1) OR MINIMUM HILF DENSITY RATIO OF 95% (IN ACCORDANCE WITH AS1289.5.7.1) AT MOISTURE CONTENT WITHIN THE RANGE OF 0-35% (WET) OF THE STANDARD OPTIMUM MOISTURE CONTENT.
8) THE COMPLETED CORE AND EMBANKMENT SHOULD BE BUILT 5% HIGHER THAN SPECIFIED, ALLOW FOR SETTLEMENT.
9) UPON COMPLETION OF EACH STAGE OF THE CLAY CORE CONSTRUCTION, THE EXPOSED CLAY SURFACE IF THE CORE SHALL BE LIMITED FROM TRAFFIC MOVEMENTS AND MAINTAINED IN MOIST CONDITION UNTIL IT IS FULLY COVERED BY THE NEXT LAYER. IF THE SURFACE OF THE PREVIOUS PLACED LAYER HAS DRIED OUT OR WETTED UP EXCESSIVELY, THE MATERIAL IN THE AFFECTED AREA SHALL BE EXCAVATED AND CONDITIONED TO MOISTURE WITHIN THE SPECIFIED TOLERANCE OR DISCARDED.



TYPICAL DETAIL - MAINTENANCE ACCESS DRIVE PAVEMENT CONSTRUCTION
SCALE 1:50

Subdivision Works Certificate

Certificate Number: 250062SW01
Issuing Officer: Garry Ryan
Registration Number: BDC0565
These plans/specifications form part of the certificate issued: 24/10/2025
BARKER RYAN STEWART

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS	DATE	ISSUE

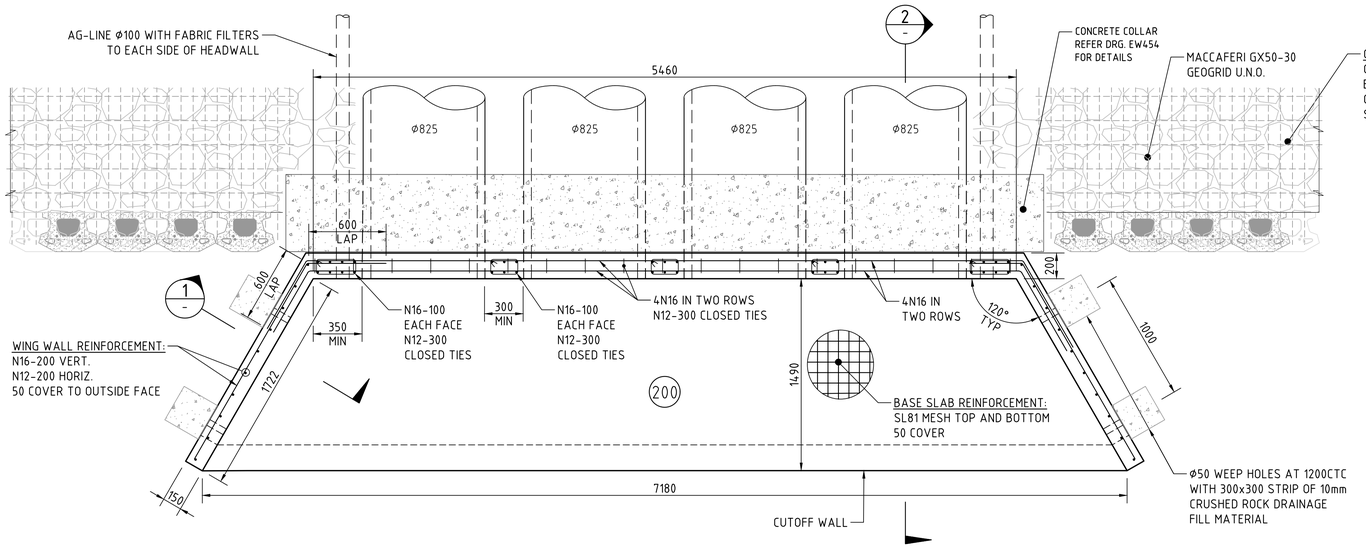
ARCHITECT: PACEARCHITECTS
CLIENT: AWJ
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW452

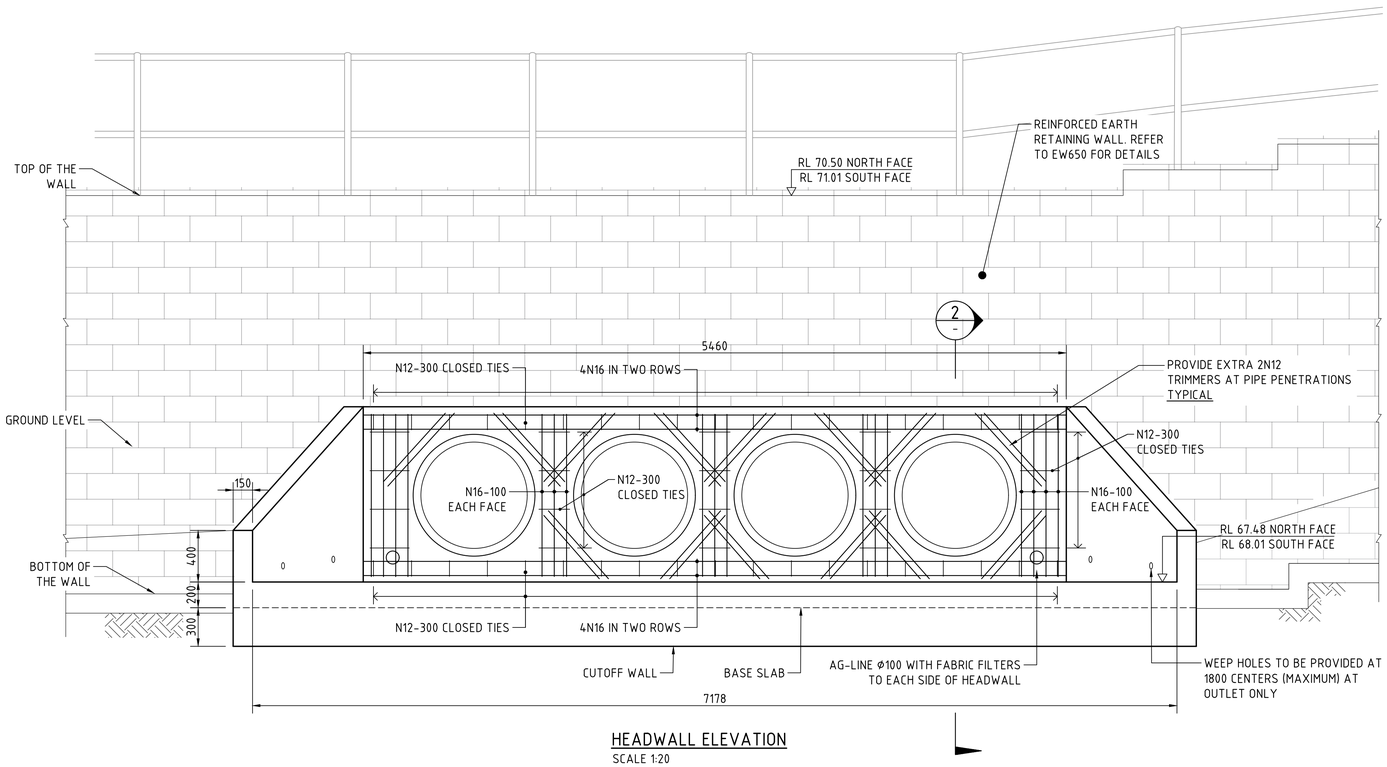
CONSULT AUSTRALIA

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PO Box N419 Sydney NSW 1220
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COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: STORMWATER DRAINAGE DETAILS SHEET 3
DRAWING No: C013904.07-EW452
ISSUE: 0



HEADWALL PLAN
SCALE 1:20



HEADWALL ELEVATION
SCALE 1:20

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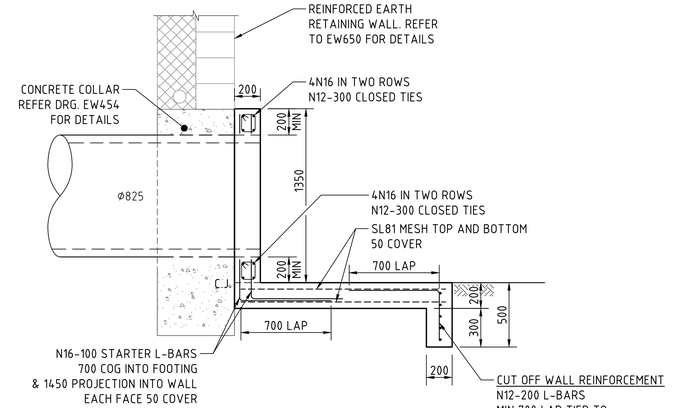
REINFORCEMENT

1. ALL REINFORCEMENT BARS ARE TO BE D500N U.N.O.
2. ALL REINFORCEMENT WELDED MESHES TO BE GRADE 500L U.N.O.
3. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY ENGINEER.
4. COVER TO ALL BASE REINFORCEMENT TO BE MINIMUM 50mm U.N.O.
5. MESH LAPS SHALL BE MADE SO THAT THE TWO OUTERMOST WIRES OF ONE FABRIC OVERLAP THE TWO OUTERMOST WIRES OF THE SHEET BEING LAPPED
6. REFER TO DRG C100 NOTE 27 FOR TABLE OF REINFORCING BAR LAP & COG LENGTHS. TABLED DIMENSIONS TO APPLY UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

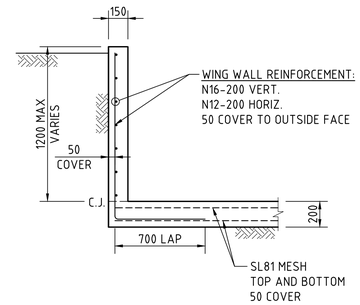
BASE SLAB TO BE FOUNDED ON
150kPa STRATA

CONCRETE QUALITY

ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
CONCRETE COLLAR	80	20	GP	NIL	32
HEADWALL	80	20	SL	NIL	32



SECTION 1:20 (2)



SECTION 1:20 WINGWALL (1)

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
FOR CONSTRUCTION CERTIFICATE	26.09.25	0

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MS	B1	AS SHOWN	C013904.07-EW453

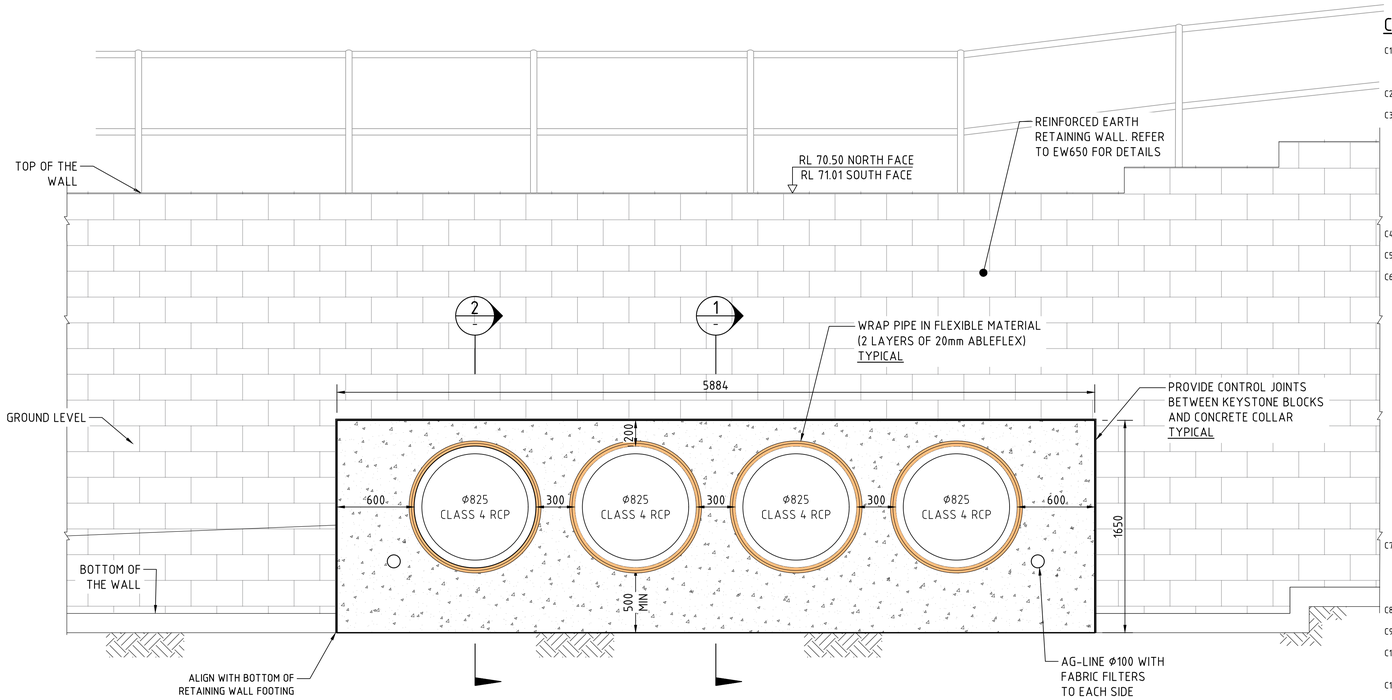
CONSULT AUSTRALIA

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DRAWING TITLE: STORMWATER DRAINAGE DETAILS-SHEET 4

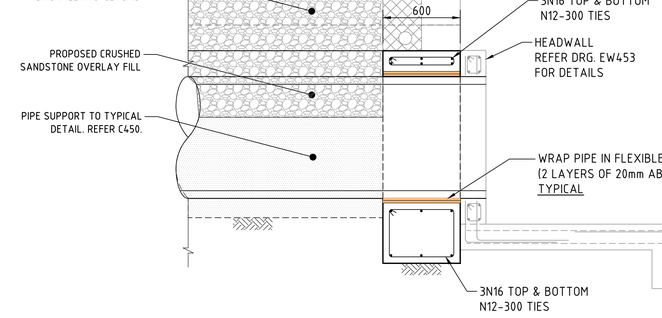
DRAWING No: C013904.07-EW453

ISSUE: 0

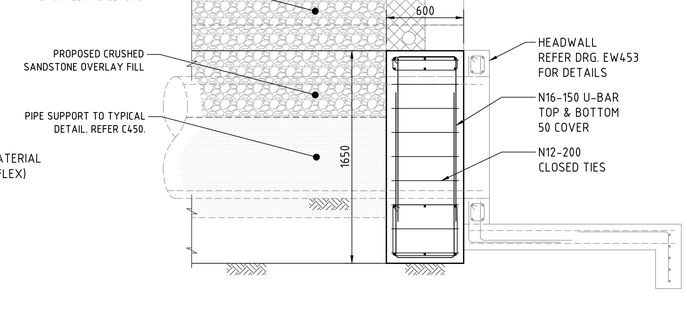


CONCRETE COLLAR ELEVATION

SCALE 1:20



SECTION 1:20 (2)



SECTION 1:20 (1)

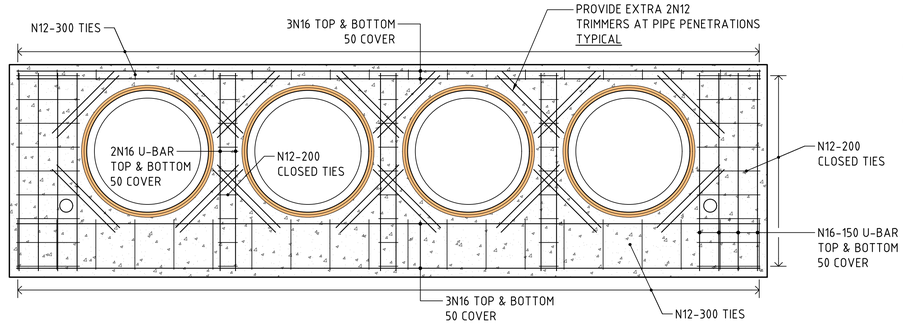
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6. REFER TO DRG C100 NOTE 27 FOR TABLE OF REINFORCING BAR LAP & COG LENGTHS. TABLED DIMENSIONS TO APPLY UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

BASE SLAB TO BE FOUNDED ON 150kPa STRATA

CONCRETE QUALITY

ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
CONCRETE COLLAR	80	20	GP	NIL	32
HEADWALL	80	20	SL	NIL	32



CONCRETE COLLAR REINFORCEMENT

SCALE 1:20

CONCRETE NOTES:

C1 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

C2 READYMIX CONCRETE SUPPLY SHALL COMPLY WITH AS1379.

C3 CONCRETE QUALITY
ALL THE REQUIREMENTS OF THE ACSE SPECIFICATION DOCUMENT 1 (EDITION 6) SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	STRENGTH GRADE (MPa)	SLUMP	MAX AGG SIZE	CEMENT TYPE

REFER TO PLANS

C4 PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE AS1379.

C5 NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.

C6 CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE.

EXPOSURE CLASSIFICATION TO AS3600:	CONCRETE GRADE:	CAST AGAINST GROUND:	CAST IN FORMS AND EXPOSED:	CAST IN FORMS NOT EXPOSED:
A1&A2	25	50mm	30mm	20mm(A1)
B1	32	60mm	40mm	-
B2	40	65mm	45mm	-

C23

C24

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

DURABILITY REQUIREMENTS FOR CONCRETE.

EXPOSURE CLASSIFICATION TO AS3600:	MINIMUM CEMENT CONTENT:	MAXIMUM W/C RATIO:
A1&A2	280	0.56
B1	320	0.56
B2	390	0.46
C	450	0.40

C7 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.

C8 CONCRETE SIZES DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.

C9 DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.

C10 REFER TO ARCHITECT'S DETAILS, FOR CHAMFERS, DRIP GROOVES, REGLETS, ETC., MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS.

C11 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.

C12 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.

C13 ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.

C14 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.

C15 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 GLUED 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.

C16 PROPPING WHICH SUPPORTS CONSTRUCTION OVER IS TO BE LEFT IN PLACE AS REQUIRED TO AVOID OVER STRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING.

C17 THE ENGINEER SHALL BE GIVEN 48 HOURS NOTICE FOR REINFORCEMENT INSPECTIONS AND CONCRETE SHALL NOT BE DELIVERED UNTIL ENGINEERS APPROVAL IS OBTAINED.

C18 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.

C19 REINFORCEMENT SYMBOLS:
N DENOTES DEFORMED GRADE 500 NORMAL DUCTILITY CLASS BARS TO AS4671
R DENOTES PLAIN ROUND GRADE 250 NORMAL DUCTILITY CLASS BARS TO AS4671
RL DENOTES RECTANGULAR MESH GRADE 500 LOW DUCTILITY CLASS TO AS4671
SL DENOTES SQUARE MESH GRADE 500 LOW DUCTILITY CLASS TO AS4671
TM DENOTES TRENCH MESH GRADE 500 LOW DUCTILITY CLASS TO AS4671
THE MEMBER IMMEDIATELY FOLLOWING THE BAR GRADE SYMBOL REPRESENTS THE NOMINAL BAR DIAMETER IN MILLIMETERS. THE FIGURES FOLLOWING THE MESH SYMBOL SL & RL IS THE REFERENCE NUMBER FOR MESH TO AS4671.

C20 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

C21 SLAB REINFORCEMENT SHALL EXTEND AT LEAST 65mm ONTO MASONRY SUPPORT WALLS AND 50 PERCENT OF THE BOTTOM REINFORCEMENT SHALL BE COGGED TO ACHIEVE ANCHORAGE AT SIMPLY SUPPORTED ENDS.

C22 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.

CONCRETE NOTES (CONTINUED):

C23 WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 SPLICED WHERE NECESSARY AND LAPPED 500mm WITH MAIN BARS.

C24 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.

C25 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 TROWELLED SMOOTH AND 2 LAYERS OF ALCOR PROVIDED BETWEEN WALL AND SLAB. ALL OTHER BUILDING ELEMENTS SHALL BE KEPT 15mm MINIMUM CLEAR FROM SOFFITS OF THE STRUCTURE.

C26 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	16° TO 20°	5° TO 16°	UNDER 5°
VERTICAL UNLOADED	WALL, COLUMN, BEAM SIDE.	0	2	3	5	7
VERTICAL LOADBEARING	WALL, COLUMN OR LOADBEARING STRUCTURE	0	5	6	7	9
HORIZONTAL	SLAB	UNDER 3	7	10	14	21
		3 - 6	10	14	21	28
		OVER 6	14	21	28	28
HORIZONTAL	BEAM	UNDER 3	10	14	21	28
		3 - 6	14	21	28	28
		OVER 6	21	28	28	28

× EFFECTIVE SPAN IS THE MAXIMUM DISTANCE BETWEEN SUPPORTS (EITHER TEMPORARY OR PERMANENT).

C27 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	260
N24	1375	310
N28	1560	360
N32	1810	400

C28 MINIMUM MESH LAPS



SITE PREPARATION

SP1. STRIP EXISTING AREA OF TOPSOIL AND OTHER DELETERIOUS MATERIAL AS REQUIRED TO CONSTRUCT NEW WORKS.

SP2. PRIOR TO PLACING THE FLOORS OR PAVEMENT THE CONTRACTOR SHALL CONFIRM THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED, IS SOUND, AT THE CORRECT MOISTURE CONTENT & HAS BEEN VERIFIED BY THE EARTHWORKS OR CIVIL CONTRACTOR WITH RESPECT TO SPECIFICATION COMPLIANCE.

SP3. REFER TO CIVIL ENGINEERS DRAWINGS FOR DETAILS OF SITE PREPARATION.

SP4. IF THE EARTHWORKS CAPPING LAYER CONSISTS OF A MINIMUM THICKNESS OF DGS40 MATERIAL & THE CONSTRUCTED LEVELS ARE SUITABLE IT MAY BE POSSIBLE TO UTILISE THIS CAPPING MATERIAL AS PAVEMENT SUB-BASE.

SP5. REMOVE ANY ORGANIC OR SOFT MATERIAL FROM SITE.

SP6. REFER TO GEOTECHNICAL REPORT PSM4636-006L REV6 PREPARED BY BRYAN TAM DATED 17 APRIL 2024 FOR INFORMATION PERTAINING TO EXISTING GROUND CONDITIONS & SPECIFIC FILL PLACEMENT & COMPACTION REQUIREMENTS.

SP7. PROOF ROLL THE EXPOSED SUBGRADE A MINIMUM OF 8 PASSES WITH A 10 TONNE STATIC WEIGHT SMOOTH DRUM NON-VIBRATORY ROLLER. AREAS IN THE VICINITY OF UNDERGROUND SERVICES SHALL BE COMPACTED WITH HAND OPERATED PLATE COMPACTOR.

SP8. WHERE SOFT, YIELDING OR UNSTABLE MATERIAL IS IDENTIFIED, DEEPEN EXCAVATION AS REQUIRED TO REMOVE ANY SOFT SPOTS AND EXPOSE SUITABLE FOUNDATION STRATA. THIS MATERIAL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.

SP9. SITE REGRADED OR ENGINEERED FILL SHALL BE CLEAN MATERIAL COMPACTED TO 100% SMDD WITHIN ±2% OF OPTIMUM MOISTURE CONTENT IN LAYERS OF 250mm LOOSE THICKNESS.

SP10. MAXIMUM PARTICLE SIZE OF FILL TO BE HALF THE LOOSE LAYER THICKNESS OR TWO-THIRDS THE COMPACTED LAYER THICKNESS.

SP11. SERVICE TRENCH BACK FILL AND FILL OVER UNDERGROUND SERVICES SHALL BE COMPACTED WITH HAND OPERATED PLATE COMPACTOR IN LAYERS OF 100mm LOOSE THICKNESS.

SP12. FILLING TO EXTEND 1 METRE BEYOND THE EDGE OF THE SLAB.

SP13. EARTHWORKS SHALL BE COMPLETED UNDER LEVEL 1 CONTROL IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMENTS'.

FOUNDATIONS

F1 FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 150kPa ON ENGINEERED FILL THE FOUNDATION MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR THIS BEARING CAPACITY BEFORE PLACING MEMBRANE, REINFORCEMENT OR CONCRETE.

F2 REFER TO GEOTECHNICAL INVESTIGATIONS
REPORT No: PSM4636-006L REV6
PREPARED BY: BRYAN TAM - PSM
DATED: 17 APRIL 2024

F3 FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALL AND COLUMNS UNLESS NOTED OTHERWISE.

F4 DO NOT EXCEED A RISE OF: 1IN A RUN OF: 2
FOR THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS.

F5 DO NOT BACKFILL RETAINING WALLS (OTHER THAN CANTILEVER WALLS) UNTIL FLOOR CONSTRUCTION AT TOP AND BOTTOM IS COMPLETED. ENSURE FREE DRAINING BACKFILL AND DRAINAGE IS IN PLACE.

F6 FOOTINGS TO BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID SOFTENING OR DRYING OUT BY EXPOSURE.

REINFORCEMENT

R1 ALL REINFORCEMENT BARS ARE TO BE D500N U.N.O.

R2 ALL REINFORCEMENT WELDED MESHES TO BE GRADE 500L U.N.O.

R3 WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

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The headwall and energy dissipation required as part of the culvert crossing approved as part of the roads act approval are included as part of this Subdivision Works Certificate.

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

200mm 0 500 1000 1500 2000mm

SCALE 1:20 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
FOR CONSTRUCTION CERTIFICATE	26.09.25	0

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MS	B1	AS SHOWN	C013904.07-EW454

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DRAWING TITLE: STORMWATER DRAINAGE DETAILS - SHEET 4

DRAWING No: C013904.07-EW454

ISSUE: 0

SCOPE OF WORKS - TO BE EXCLUDED FORM CC APPLICATION. SUBJECT TO SUBDIVISION WORKS CERTIFICATE (SWC)/ WORKS AUTHORISATION DEED (WAD) WHICH APPLICABLE

PROVISION OF SHARED PATHWAY ALONG GREAT WESTERN HIGHWAY SHOWN CONCEPTUAL ONLY PER MU GROUP'S DESIGN. ON HOLD UNTIL FINAL APPROVAL RECEIVED. SUBJECT TO WORKS AUTHORISATION DEED WITH TfNSW

PROPOSED WAREHOUSE 1
BEL RL 73.62

PROPOSED WAREHOUSE 2
BEL RL 76.30

PROPOSED WAREHOUSE 3
BEL RL 78.40

PROPOSED WAREHOUSE 4
BEL RL 78.40

PROPOSED WAREHOUSE 5
BEL RL 82.90

1A 551 | 1B 551 | 1C 551 | 1D 551
2A 552 | 2B 552 | 2C 552
3A 553 | 3B 553 | 3C 553 | 3D 553 | 3E 553
4A 554 | 4B 554 | 4C 554 | 4D 555 | 4E 555 | 4F 556 | 4G 557 | 4H 557
5A 558 | 5B 558 | 5C 558 | 5D 558
6D 561 | 6F 562 | 6G 563 | 6H 564 | 6I 564 | 6J 565 | 6K 565

KEY SECTIONS PLAN
SCALE 1:1500

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LEGEND:

LEVELS DATUM IS AHD.

EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SW> – PROPOSED DRAINAGE LINE
- 50.00 – FINISHED PAVEMENT CONTOUR (MAJOR) 5.0m INTERVALS
- 50.25 – FINISHED PAVEMENT CONTOUR (MINOR) 1.0m INTERVALS

LEGEND:

- FRESHWATER WETLAND
- EMERGENT ZONE
- DEEP WATER ZONE
- PROPOSED BIO-RETENTION ZONE
- PROPOSED MAINTENANCE TRACK
- SITE BOUNDARY
- REINFORCED EARTH WALL STRAPS

Subdivision Works Certificate

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BARKER RYAN STEWART

FOR CONSTRUCTION CERTIFICATE

15m 0 15 30 45 60 75 90 105 120 135 150m

SCALE 1:1500 AT B1 SIZE SHEET

AMENDMENTS	DATE	ISSUE
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	26.05.25	0
FOR PRELIMINARY	25.03.25	A

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

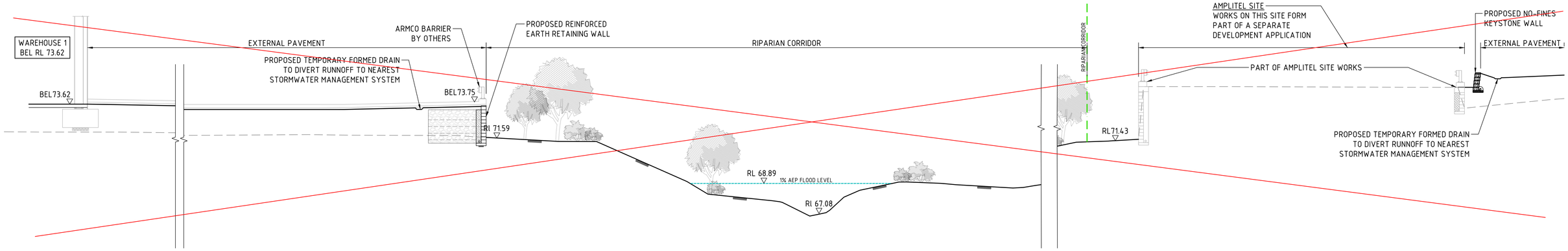
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LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW550

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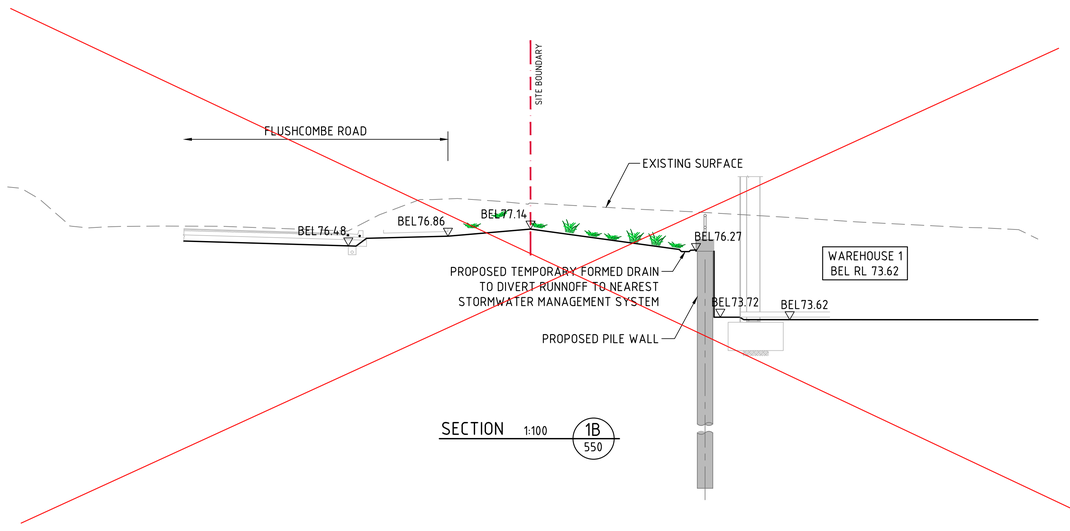
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DRAWING TITLE: KEY SECTIONS PLAN

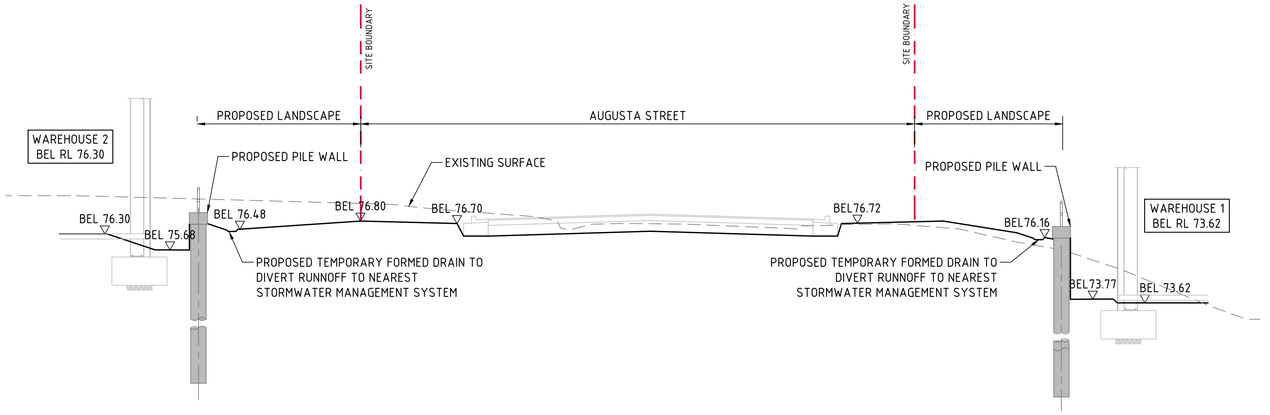
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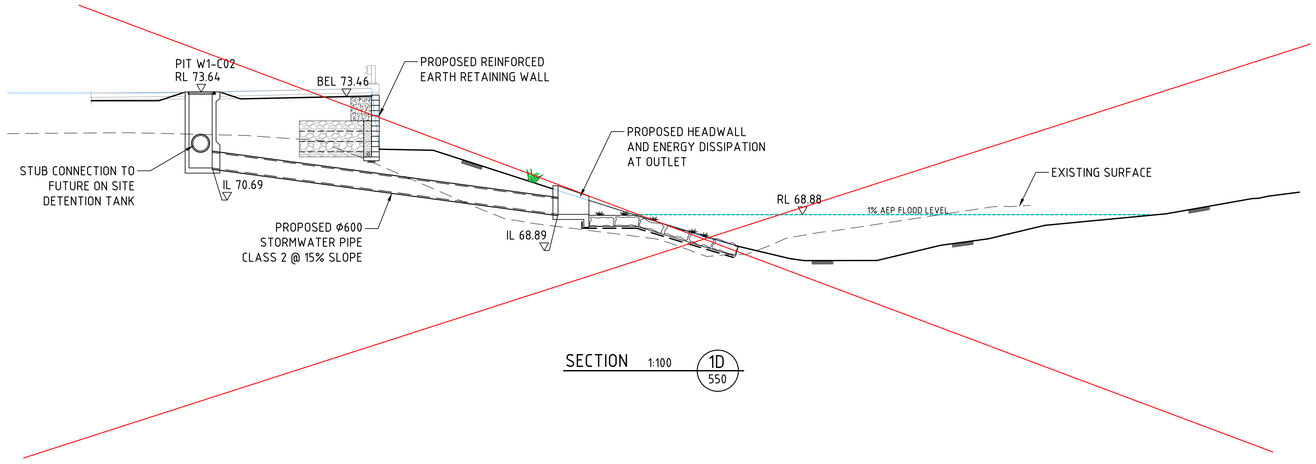
SECTION 1:100 1A / 550



SECTION 1:100 1B / 550



SECTION 1:100 1C / 550



SECTION 1:100 1D / 550

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Issuing Officer: Garry Ryan

Registration Number: BDC0565

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BARKER RYAN STEWART

1m 0 1 2 3 4 5 6 7 8 9 10m

SCALE 1:100 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
FOR CONSTRUCTION CERTIFICATE	26.05.25	0
FOR PRELIMINARY	09.05.25	A

AMENDMENTS DATE ISSUE

ARCHITECT
PACEARCHITECTS

CLIENT
AWJ

PROJECT
PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW551

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CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
TYPICAL SECTIONS
SHEET 1

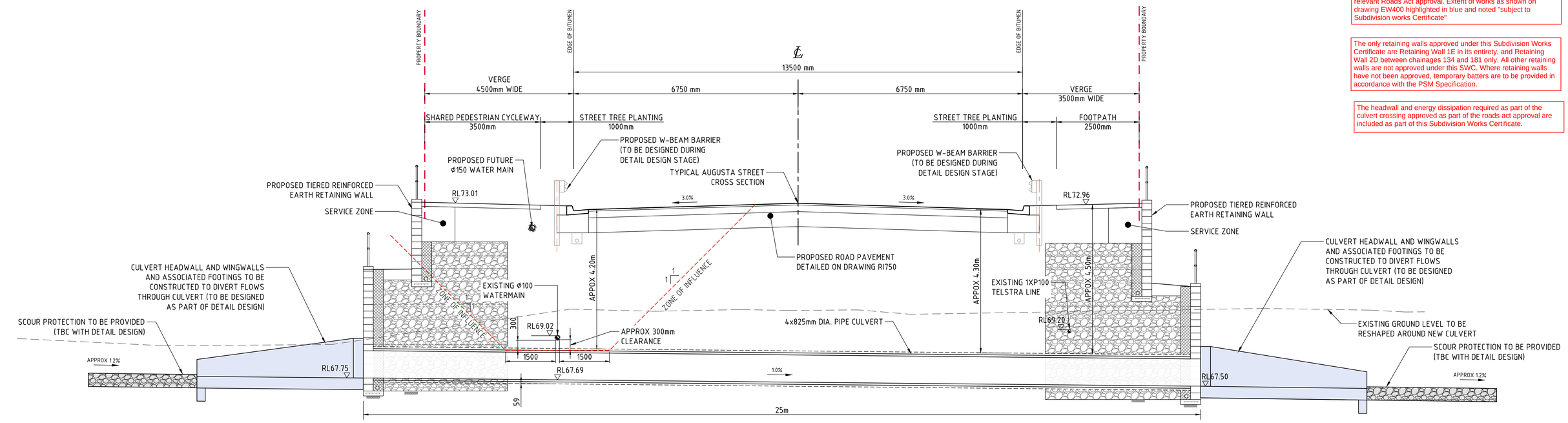
DRAWING No C013904.07-EW551

ISSUE 0

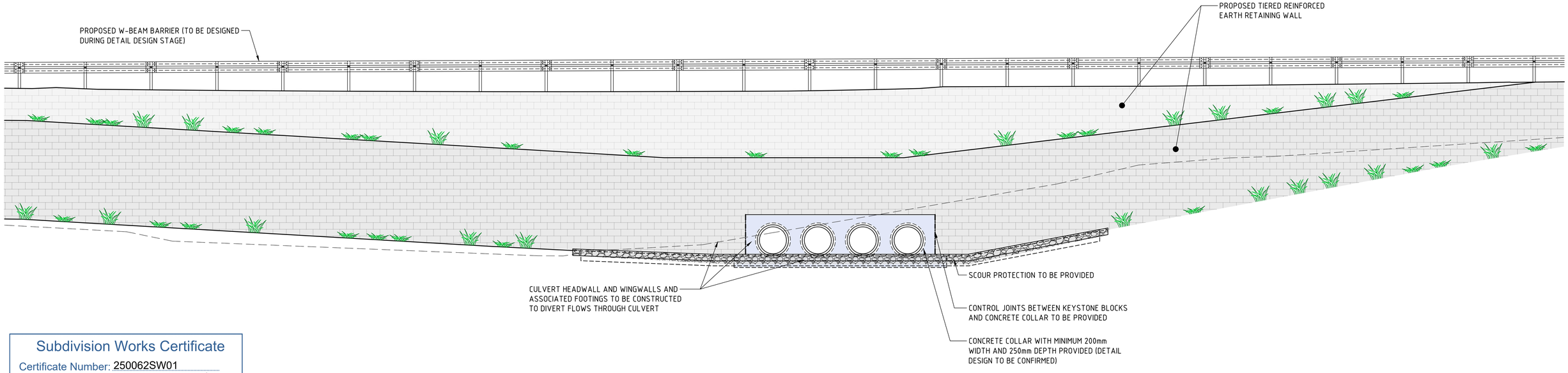
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SECTION 1:50 (6B / EW500)
PROPOSED DUAL PIPE CULVERT UNDER AUGUSTA STREET



SECTION 1:50 (6A / EW500)
PROPOSED DUAL PIPE CULVERT UNDER AUGUSTA STREET

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
FOR CONSTRUCTION CERTIFICATE	26.05.25	0

AMENDMENTS	DATE	ISSUE

ARCHITECT: PACE ARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

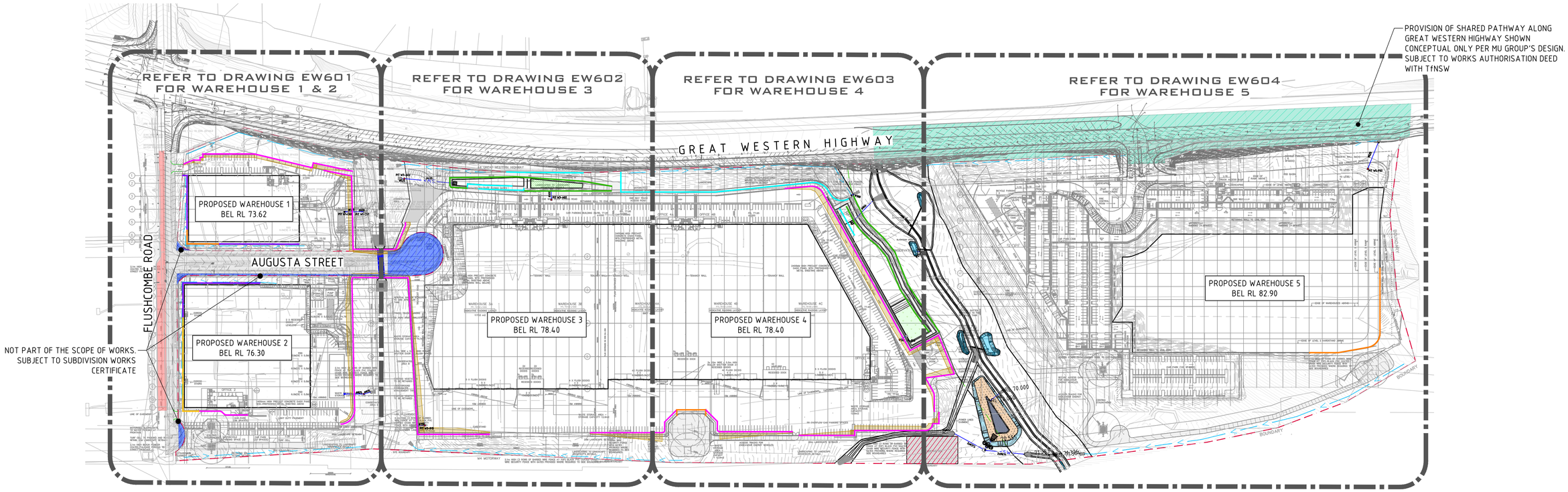
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW560

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DRAWING TITLE: TYPICAL SECTIONS
SHEET 9

DRAWING No: C013904.07-EW560 ISSUE: 0



RETAINING WALL KEY PLAN
SCALE 1:1500

REINFORCED EARTH RETAINING WALL NOTES:

1. ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEXT WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 20584-6400.
2. MINIMUM HEIGHT (H) TO GEOGRID REINFORCEMENT LENGTH (L) TO BE 1.0.
3. MINIMUM BEARING CAPACITY OF FOUNDATION (BASED ON MINIMUM H/L RATIO OF 1.0) 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.
4. 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% SMDD AND PLACED WITHIN 2% OF OMC.
5. MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS U.N.O. ON PLAN:
   a. LIVE LOAD = 20 kPa
   b. DEAD LOAD = 5 kPa
   c. CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
6. THE GEOGRIDS SHALL BE OF THE TYPE AND INDEX STRENGTH NOMINATED ON THE DRAWINGS. THE MINIMUM GEOGRIDS SHALL BE A SINGLE LENGTH IN THE DIRECTION OF DESIGN TENSION, NOT LAPPED, MAKING PROVISION FOR CONNECTION TO THE FACING ACROSS THE WHOLE WIDTH OF THE FACING AND PROVIDING FOR THE SPECIFIED ANCHORAGE WITHIN THE DESIGNATED ANCHORAGE ZONE. GEOGRIDS SHALL COVER THE WHOLE OF THE PLAN AREA BEHIND THE WALL FOR THE SPECIFIED ANCHORAGE LENGTH AND SHALL BE LAPPED WITH ADJACENT SECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. MINIMUM WALL EMBEDMENT AT THE TOE OF THE WALL TO BE 300mm.
8. DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
9. SELECT BACKFILL MATERIAL WITHIN THE REINFORCED SOIL BLOCK SHALL BE SOUND GRANULAR MATERIAL OF NATURAL OR INDUSTRIAL ORIGIN, NON-EXPANSIVE, FREE FROM ORGANIC OR OTHER DELETERIOUS MATERIAL CONFORMING TO THE PHYSICAL, CHEMICAL AND ELECTROCHEMICAL LIMITS AS SPECIFIED AND SHALL NOT BE SUBJECT TO BREAKDOWN UNDER COMPACTION. THE SELECT BACKFILL MATERIAL IS TO HAVE THE FOLLOWING PARAMETERS:
   a. MINIMUM INTERNAL FRICTION, Ø = 34°
   b. EFFECTIVE COHESION, C' = 0 kPa
   c. UNIT WEIGHT = 21 kN/m^3
   d. PH BETWEEN 4 AND 9.
10. SELECT BACKFILL IS TO BE PLACED AND COMPACTED IN LAYERS NOT MORE THAN 300mm (LOOSE). COMPACTION TO NOT LESS THAN 100% SMDD WILL BE ACHIEVED AND MATERIAL PLACED WITHIN 2% OF OMC. DENSITY TESTING SHALL BE PERFORMED IN EACH COMPACTED LIFT IN ACCORDANCE WITH AS3798.
11. PROVIDE A DRAINAGE LAYER DIRECTLY BEHIND THE FACING UNITS IN A MINIMUM 300mm WIDE 12-20mm AGGREGATE LAYER. FACING UNIT VOIDS TO BE FILLED WITH AGGREGATE. PROVIDE 100mm MINIMUM AG. DRAIN IN GEOTEXTILE SOCK AT TOE OF WALL FACING AND CONNECT TO DRAINAGE SYSTEM AT 30m MAX. SPACING.
12. THE NEED FOR A CHIMNEY DRAIN OR DRAINAGE AT THE REAR OF THE MASS SOIL BLOCK IS TO BE CONFIRMED ON SITE BY THE GEOTECHNICAL ENGINEER AND DESIGNER FOLLOWING PREPARATION OF THE FOUNDATION AND PRIOR TO CONSTRUCTION OF THE MASS SOIL BLOCK.
13. 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.
14. ALL DESIGN AND CONSTRUCT WALL SYSTEM TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.
15. TOP OF WALL HEIGHTS ARE NOTED TO ALIGN WITH FINISHED PAVEMENT HEIGHTS. THE CONTRACTOR AND THEIR DESIGN AND CONSTRUCT WALLING CONTRACTORS ARE TO ENSURE THAT ALL WALL STRAPS ARE INSTALLED BELOW THE DESIGN EARTHWORKS SUBGRADE. CONTRACTOR TO ALLOW FOR WALL STRAPS TO BE GRADED AWAY FROM THE FACE OF THE WALL OR OTHERWISE INSTALLED TO SUIT EARTHWORKS DESIGN LEVELS AND GRADES.
16. DIFFERENTIAL SETTLEMENT NOTE:
    FUTURE BUILDING AND SERVICE DESIGNERS TO CONSIDER DIFFERENTIAL SETTLEMENT OF REINFORCED EARTH WALL BLOCK AND GENERAL FILL AREAS. PARTICULAR ATTENTION TO BE DRAWN TO HEAVILY LOADED AREAS, OR DIFFERING LOADED AREAS (INCLUDING SPRINKLER TANK AND TRUCK PAVEMENT AREAS) AND WHERE SIGNIFICANT CHANGES IN OVERALL WALL HEIGHT OR FILL AMOUNTS ARE EXPERIENCED. IT IS THE RESPONSIBILITY OF THE FUTURE DESIGNERS TO ENSURE APPROPRIATE DESIGN CONSIDERATION TO DIFFERENTIAL SETTLEMENT ARE MADE DEPENDING ON THE DESIGN ELEMENT AND INTERACTION WITH RETAINED ELEMENTS AND GENERAL FILL MATERIAL.

NOTES:

1. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (E-001759-23). REFER TO DRAWING EW300 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.
2. ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEXT WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 20584-6400.

RETAINING WALL NOTES:

1. ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEXT WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 20584-6400.
2. 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.
3. 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% SMDD AND PLACED WITHIN 2% OF OMC.
4. MINIMUM SURCHARGE LOADS TO BE APPLIED AS FOLLOWS U.N.O.
5. ON PLAN :
   a. LIVE LOAD = 20 kPa
   b. DEAD LOAD = 5 kPa
   c. CONSTRUCTION TRAFFIC LIVE LOAD = 10 kPa
6. MINIMUM WALL EMBEDMENT AT THE TOE OF THE WALL TO BE 300mm MINIMUM UNLESS NOTED OTHERWISE.
7. DESIGN LIFE OF STRUCTURE IS TO BE 100 YEARS.
8. 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.
9. 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.
10. ALL DESIGN AND CONSTRUCT WALL SYSTEM TO BE COMPLETED IN ACCORDANCE WITH THESE NOTES.
11. WALL ELEVATIONS ALLOW FOR NOMINAL EMBEDMENT DEPTHS. WHERE DESIGN AND CONSTRUCT (D+C) WALL SYSTEMS ARE PROPOSED IT IS THE CONTACTORS RESPONSIBILITY TO ALLOW FOR THE FINAL EMBEDMENT DEPTHS AS PER THE D+C DESIGN. ALLOWANCE FOR OVERALL WALL AREAS TO CONSIDER THE FINAL EMBEDMENT DEPTH.
12. WALL ELEVATIONS AND AREAS ARE BASED ON THE VERTICAL PLAN AREA. CONTRACTOR TO ALLOW ADDITIONAL SURFACE AREA WHERE WALLS ARE NOT VERTICAL OR HAVE BACKSLOPES.

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.
7. THE CONTRACTOR SHALL ALLOW 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.
8. 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.
9. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL OF THE PROGRAM FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
10. 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.
11. 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.
12. THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG (DBYD 1100) SERVICES SEARCH BEFORE THE COMMENCEMENT OF ANY WORKS.

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

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The headwall and energy dissipation required as part of the culvert crossing approved as part of the roads act approval are included as part of this Subdivision Works Certificate.

Subdivision Works Certificate
Certificate Number: 250062SW01
Issuing Officer: Garry Ryan
Registration Number: BDC0565
These plans/specifications form part of the certificate issued: 24/10/2025
BARKER RYAN STEWART

LEGEND:

LEVELS DATUM IS AHD.

- EXISTING CONTOUR (MAJOR) 1.0m INTERVALS
- EXISTING CONTOUR (MINOR) 0.25m INTERVALS
- CONTOUR (MAJOR) 1.0m INTERVALS
- CONTOUR (MINOR) 0.25m INTERVALS
- REINFORCED EARTH WALL STRAPS
- PROPOSED PILE & CONCRETE SLEEPER WALL
- PROPOSED SOLDIER PILE & SHOTCRETE WALL
- PROPOSED REINFORCED EARTH WALL
- PROPOSED CANTILEVER PILE & SHOTCRETE WALL
- PROPOSED NO-FINES KEYSTONE WALL
- PROPOSED BOULDER WALL
- SITE BOUNDARY

15m 0 15 30 45 60 75 90 105 120 135 150m
SCALE 1:1500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
ISSUED FOR CONSTRUCTION CERTIFICATE	10.09.25	3
ISSUED FOR CONSTRUCTION CERTIFICATE	05.09.25	2
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

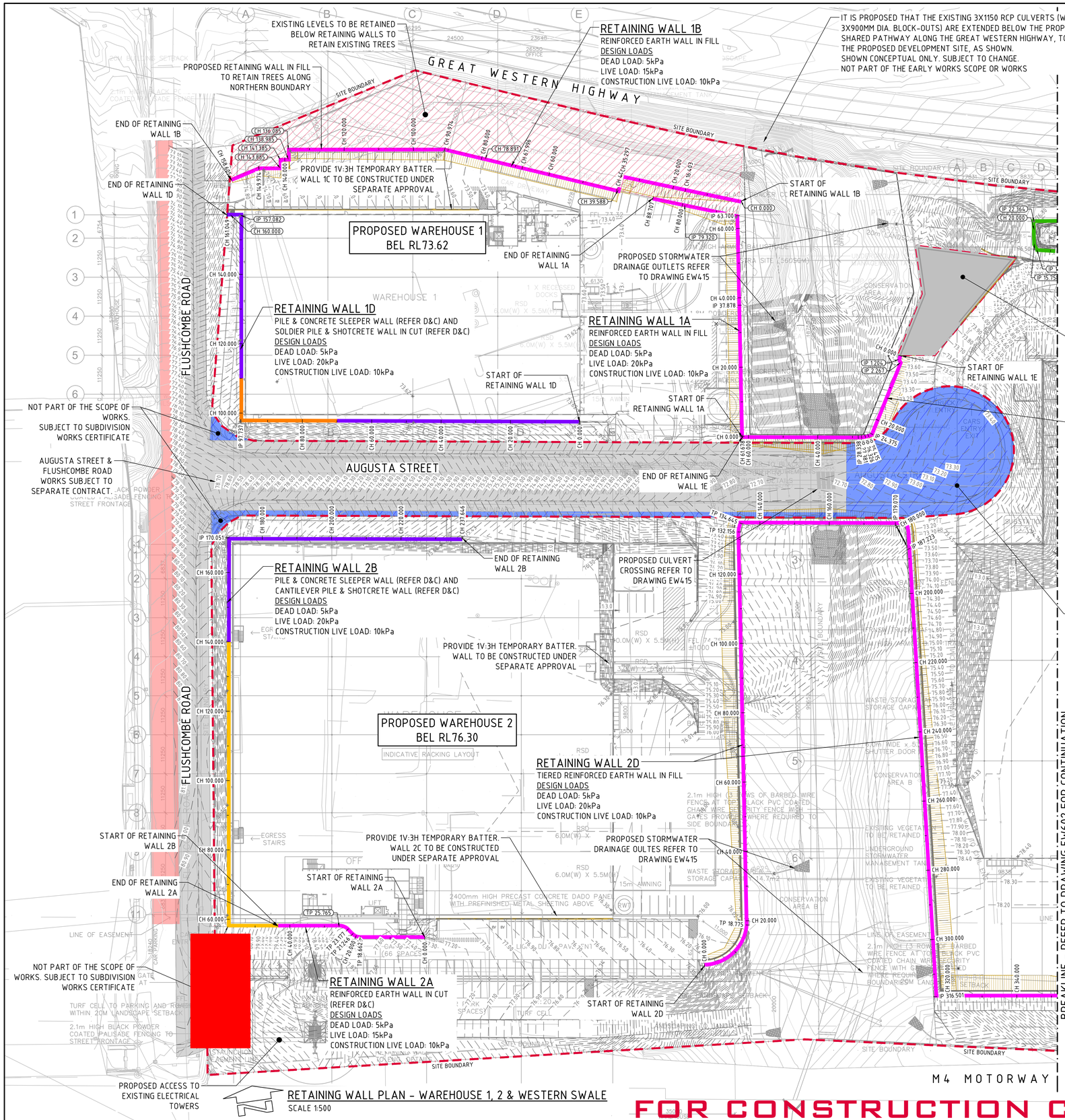
AMENDMENTS DATE ISSUE

ARCHITECT: PACE ARCHITECTS
CLIENT: AWJ
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148
CONSULT AUSTRALIA

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW600

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COSTIN ROE CONSULTING CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: RETAINING WALL KEY PLAN
DRAWING No: C013904.07-EW600
ISSUE: 3



RETAINING WALL PLAN – WAREHOUSE 1, 2 & WESTERN SWALE
SCALE 1:500

LEGEND:

LEVELS DATUM IS AHD.

- EXISTING CONTOUR (MAJOR) 1.0m INTERVALS
- EXISTING CONTOUR (MINOR) 0.25m INTERVALS
- CONTOUR (MAJOR) 1.0m INTERVALS
- CONTOUR (MINOR) 0.25m INTERVALS
- REINFORCED EARTH WALL STRAPS
- PROPOSED PILE & CONCRETE SLEEPER WALL
- PROPOSED SOLDIER PILE & SHOTCRETE WALL
- PROPOSED REINFORCED EARTH WALL
- PROPOSED CANTILEVER PILE & SHOTCRETE WALL
- SITE BOUNDARY
- PROPOSED ASPHALT PAVEMENT
- ROADWORKS BY OTHERS

NOTE:

1. REFER TO DRAWING EW600 FOR RETAINING WALL NOTES.
2. ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEX WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 20584~6400
3. REFER TO DRAWING EW611 TO EW615 FOR RETAINING WALL ELEVATIONS.
4. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (E-001759-23). REFER TO DRAWING EW300 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

FUTURE GWH WORKS INTERFACE NOTE:

PROVIDE SMOOTH INTERFACE BETWEEN THE PROPOSED DEVELOPMENT'S FINISHED SURFACE LEVELS AT THE BOUNDARY AND THE PROPOSED FINISHED SURFACE LEVELS OF THE SHARED PATHWAY ALONG THE GREAT WESTERN HIGHWAY DESIGNED BY MU GROUP. PROVIDE OPEN SWALE AT INTERFACE AS SHOWN TO DIRECT SURFACE RUNOFF TO THE NEAREST DISCHARGE POINT.
NOT PART OF THE EARLY WORKS SCOPE OF WORKS.

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

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The headwall and energy dissipation required as part of the culvert crossing approved as part of the roads act approval are included as part of this Subdivision Works Certificate.

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
ISSUED FOR CONSTRUCTION CERTIFICATE	10.09.25	3
REVISED AS CLOUDED	05.09.25	2
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS DATE ISSUE

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW601

CONSULT AUSTRALIA

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COSTIN ROE CONSULTING | CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: RETAINING WALL PLAN
WAREHOUSE 1, 2 & WESTERN SWALE

DRAWING No: C013904.07-EW601 ISSUE: 3

IT IS PROPOSED THAT THE EXISTING 3X1150 RCP CULVERTS (WITH 3X900MM DIA. BLOCK-OUTS) ARE EXTENDED BELOW THE PROPOSED NEW SHARED PATHWAY ALONG THE GREAT WESTERN HIGHWAY, TOWARDS THE PROPOSED DEVELOPMENT SITE, AS SHOWN. SHOWN CONCEPTUAL ONLY. SUBJECT TO CHANGE. NOT PART OF THE EARLY WORKS SCOPE OR WORKS

AMPLITEL SITE:
WORKS ON THIS SITE FORM PART OF A SEPERATE DEVELOPMENT APPLICATION.

START OF RETAINING WALL 1B

RETAINING WALL 1A
REINFORCED EARTH WALL IN FILL
DESIGN LOADS
DEAD LOAD: 5kPa
LIVE LOAD: 20kPa
CONSTRUCTION LIVE LOAD: 10kPa

START OF RETAINING WALL 1A

END OF RETAINING WALL 1E

RETAINING WALL 1E
TIERED REINFORCED EARTH WALL IN FILL
DESIGN LOADS
DEAD LOAD: 5kPa
LIVE LOAD: 20kPa
CONSTRUCTION LIVE LOAD: 10kPa

RETAINING WALL 3B
NO-FINES KEYSTONE WALL
DESIGN LOADS
DEAD LOAD: 5kPa
LIVE LOAD: 20kPa
CONSTRUCTION LIVE LOAD: 10kPa

END OF RETAINING WALL 3B.
START OF RETAINING WALL 3D

START OF RETAINING WALL 3F

RETAINING WALL 3F
NO-FINES KEYSTONE WALL
DESIGN LOADS
DEAD LOAD: 5kPa
LIVE LOAD: 5kPa
CONSTRUCTION LIVE LOAD: 10kPa

END OF RETAINING WALL 3F

RETAINING WALL 3D
BOULDER WALL
DESIGN LOADS
DEAD LOAD: 5kPa
LIVE LOAD: 20kPa
CONSTRUCTION LIVE LOAD: 10kPa

END OF RETAINING WALL 3D

START OF RETAINING WALL 3E

RETAINING WALL 3E
BOULDER WALL
DESIGN LOADS
DEAD LOAD: 5kPa
LIVE LOAD: 20kPa
CONSTRUCTION LIVE LOAD: 10kPa

START OF RETAINING WALL 3C

END OF RETAINING WALL 3E

END OF RETAINING WALL 3C

RETAINING WALL 3C
NO-FINES KEYSTONE WALL
DESIGN LOADS
DEAD LOAD: 5kPa
LIVE LOAD: 20kPa
CONSTRUCTION LIVE LOAD: 10kPa

RETAINING WALL 3A BUILT ONSITE

START OF RETAINING WALL 1E

NOT PART OF THE SCOPE OF WORKS. SUBJECT TO SUBDIVISION WORKS CERTIFICATE

PROPOSED COMBINED STORMWATER QUALITY/QUANTITY MANAGEMENT BASIN. TEMPORARY BASIN PROTECTION REQUIRED REFER TO DETAILS.

PROVIDE 1V:3H TEMPORARY BATTER. WALL TO BE CONSTRUCTED UNDER SEPARATE APPROVAL

PROPOSED WAREHOUSE 3
BEL RL78.40

RETAINING WALL 2D
TIERED REINFORCED EARTH WALL IN FILL
DESIGN LOADS
DEAD LOAD: 5kPa
LIVE LOAD: 20kPa
CONSTRUCTION LIVE LOAD: 10kPa

END OF RETAINING WALL 2D

END OF RETAINING WALL 4A

BREAKLINE - REFER TO DRAWING EW601 FOR CONTINUATION

BREAKLINE - REFER TO DRAWING EW603 FOR CONTINUATION

LEGEND:

LEVELS DATUM IS AHD.

- 50.00 – EXISTING CONTOUR (MAJOR) 1.0m INTERVALS
- 50.25 – EXISTING CONTOUR (MINOR) 0.25m INTERVALS
- 50.00 – CONTOUR (MAJOR) 1.0m INTERVALS
- 50.25 – CONTOUR (MINOR) 0.25m INTERVALS
- – REINFORCED EARTH WALL STRAPS
- – PROPOSED NO-FINES KEYSTONE WALL
- – PROPOSED REINFORCED EARTH WALL
- – PROPOSED BOULDER WALL
- – SITE BOUNDARY
- – PROPOSED ASPHALT PAVEMENT
- – ROADWORKS BY OTHERS

NOTE:

1. REFER TO DRAWING EW600 FOR RETAINING WALL NOTES.
2. ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEX WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 20584-6400
3. REFER TO DRAWING EW611 TO EW615 FOR RETAINING WALL ELEVATIONS.
4. PROPOSED TREES TO BE RETAINED ARE IDENTIFIED IN ACCORDANCE WITH THE ECOLOGIST'S REPORT (E-001759-23). REFER TO DRAWING EW300 FOR VISUAL GUIDANCE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE ECOLOGIST'S REPORT, THE REPORT SHALL TAKE PRECEDENCE.

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Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

RETAINING WALL PLAN - WAREHOUSE 3 & WESTERN SWALE
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
ISSUED FOR CONSTRUCTION CERTIFICATE	10.09.25	3
REVISED AS CLOUDED	05.09.25	2
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

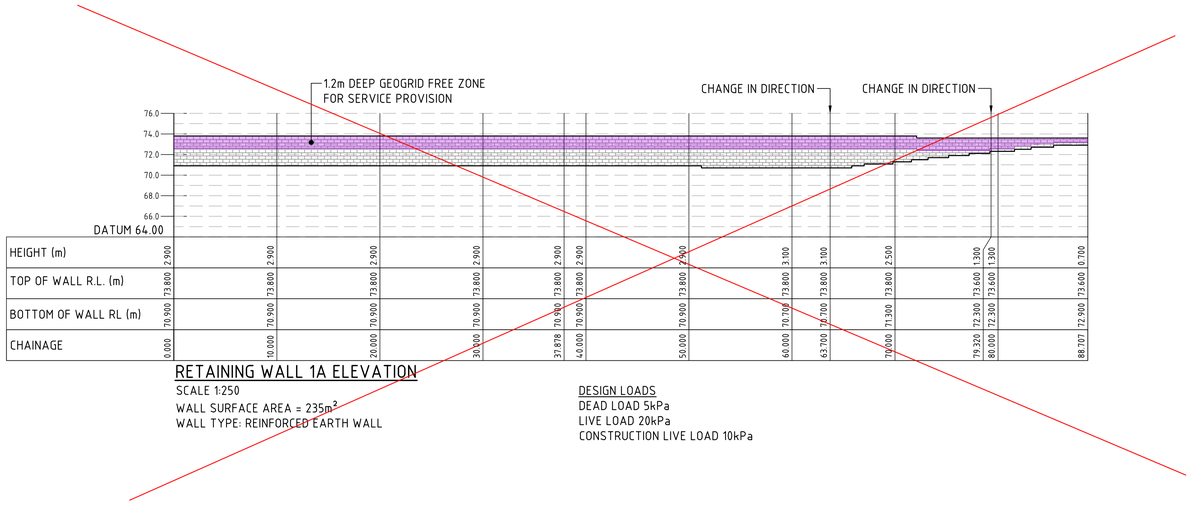
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW602

CONSULT AUSTRALIA

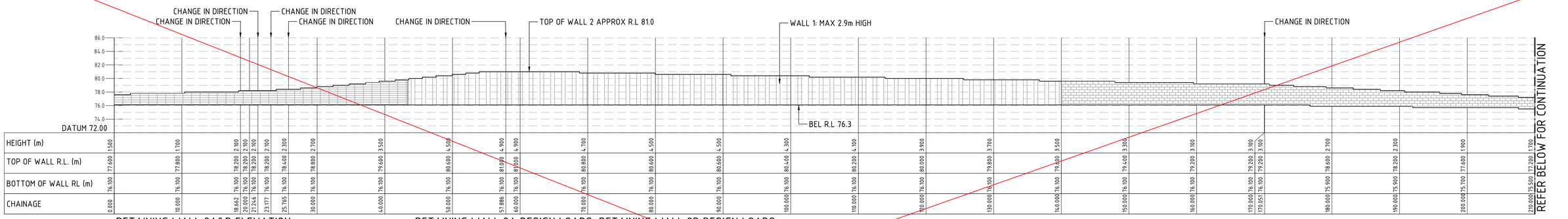
Costin Roe Consulting Pty Ltd.
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COSTIN ROE CONSULTING | CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: RETAINING WALL PLAN
WAREHOUSE 3 & WESTERN SWALE

DRAWING No: C013904.07-EW602 ISSUE: 3


1.2m DEEP GEOGRID FREE ZONE
FOR SERVICE PROVISION
CHANGE IN DIRECTION
CHANGE IN DIRECTION
76.0
74.0
72.0
70.0
68.0
66.0
DATUM 64.00

| | | |



RETAINING WALL 2A&B ELEVATION

SCALE 1:250

WALL SURFACE AREA = PILE & CONCRETE SLEEPER WALL = 105m²
CANTILEVER PILE & SHOTCRETE WALL= 415m²
REINFORCED EARTH WALL = 220m²

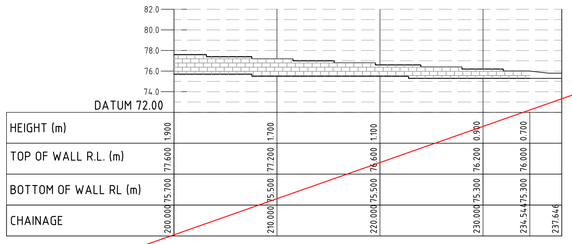
WALL TYPE: PILE & CONCRETE SLEEPER WALL (0.00 TO 43.00)
CANTILEVER PILE & SHOTCRETE WALL (43.00.00 TO 140.00)
REINFORCED EARTH WALL ((140.00 TO 237.646)

RETAINING WALL 2A DESIGN LOADS

DESIGN LOADS
DEAD LOAD 5kPa
LIVE LOAD 15kPa
CONSTRUCTION LIVE LOAD 10kPa

RETAINING WALL 2B DESIGN LOADS

DESIGN LOADS
DEAD LOAD 5kPa
LIVE LOAD 20kPa
CONSTRUCTION LIVE LOAD 10kPa



RETAINING WALL 2A&B ELEVATION – CONTINUATION

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The headwall and energy dissipation required as part of the culvert crossing approved as part of the roads act approval are included as part of this Subdivision Works Certificate.

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

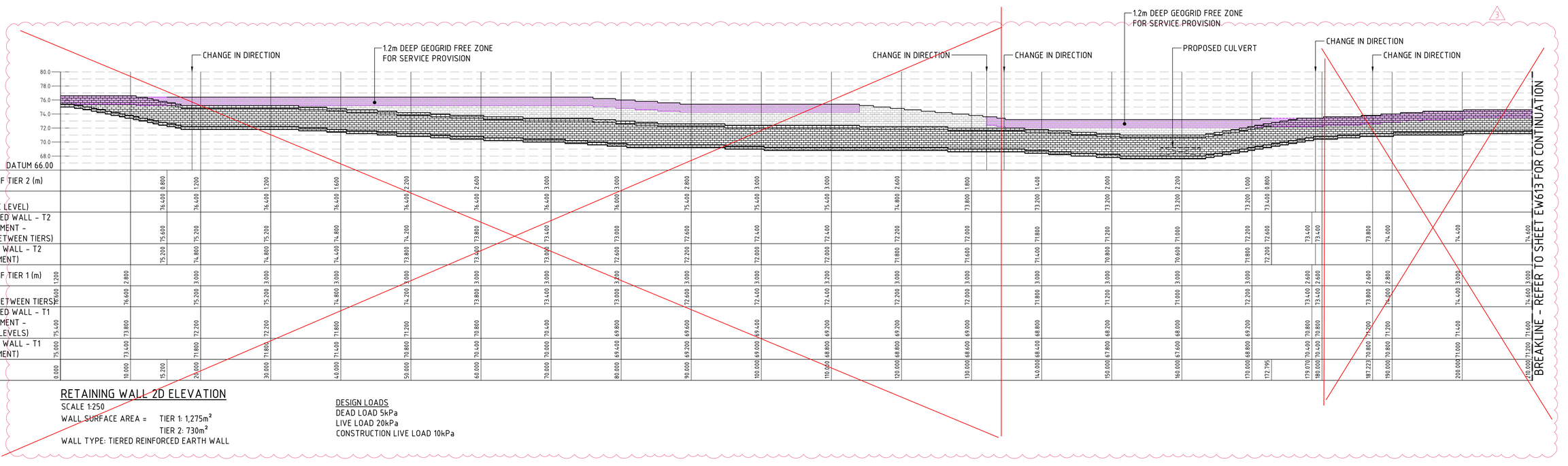
Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

NOTES:

1. REFER PLANS EW601 TO EW604 FOR DESIGN LOADING.
2. ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEX WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 2058-6400.



RETAINING WALL 2D ELEVATION

SCALE 1:250

WALL SURFACE AREA = TIER 1: 1,275m²
TIER 2: 730m²

WALL TYPE: TIERED REINFORCED EARTH WALL

DESIGN LOADS
DEAD LOAD 5kPa
LIVE LOAD 20kPa
CONSTRUCTION LIVE LOAD 10kPa

2m 0 5 10 15 20 25m

SCALE 1:250 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	17.09.25	3
ISSUED FOR CONSTRUCTION CERTIFICATE	11.09.25	2
REVISED AS CLOUDED	05.09.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS DATE ISSUE

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MS	B1	AS SHOWN	C013904.07-EW612

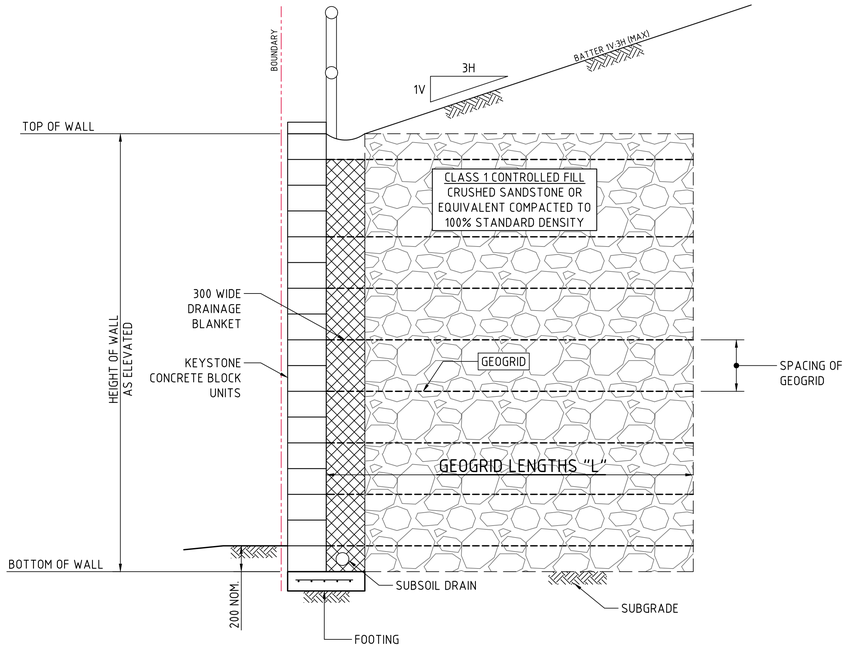
CONSULT AUSTRALIA

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COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: RETAINING WALL ELEVATIONS - SHEET 2

DRAWING No. C013904.07-EW612

ISSUE 3



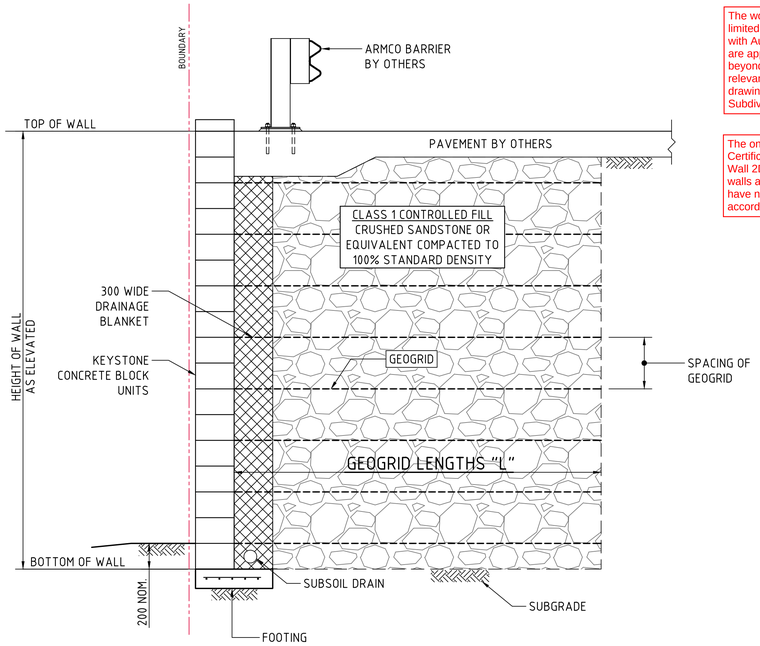
RETAINING WALL TYPE 1 - TYPICAL
(REINFORCED EARTH WALL)

SCALE 1:20

ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEX WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 20584-6400

NOTE :

INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.



RETAINING WALL TYPE 2 - TYPICAL
(REINFORCED EARTH WALL)

SCALE 1:20

ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEX WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 20584-6400

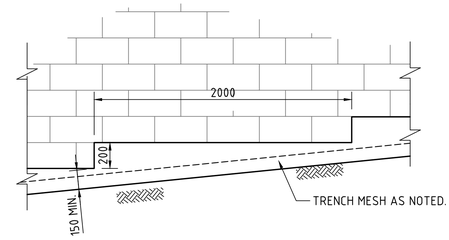
NOTE :

INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.

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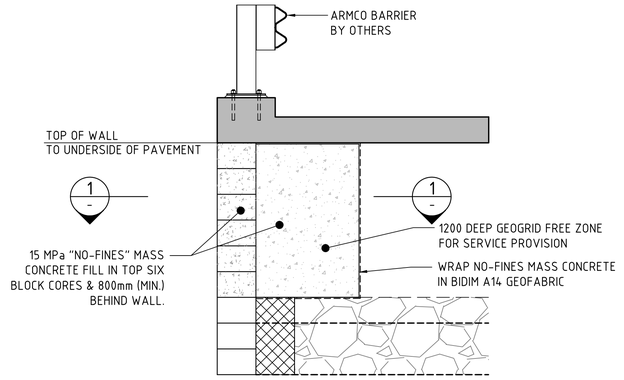
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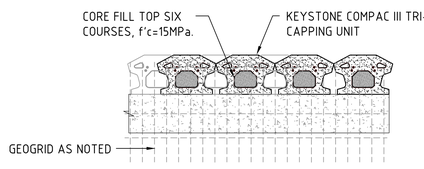


REINFORCED EARTH WALL TYPICAL LEVELING STRIP STEP DETAIL

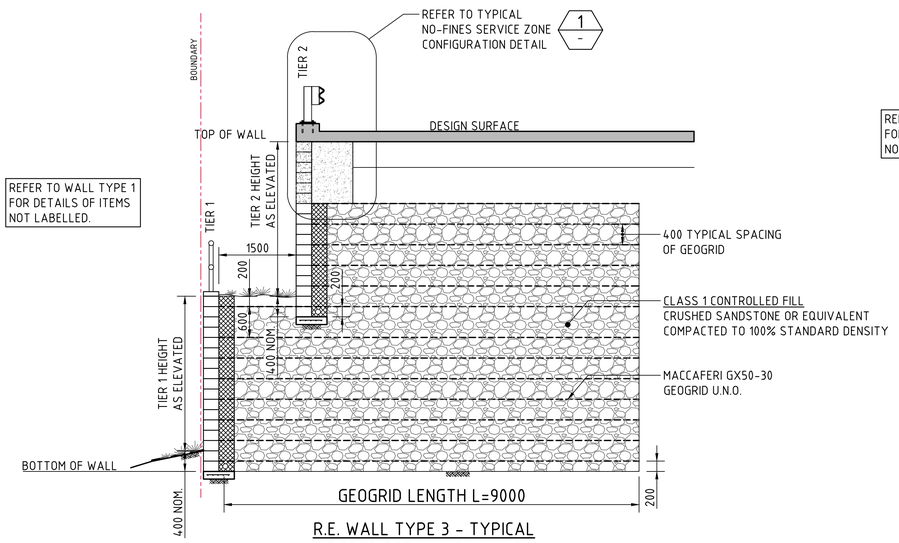
SCALE 1:20



DETAIL 1:20 (1 -) TYPICAL NO-FINES SERVICE ZONE CONFIGURATION



SECTION 1:20 (1 -)



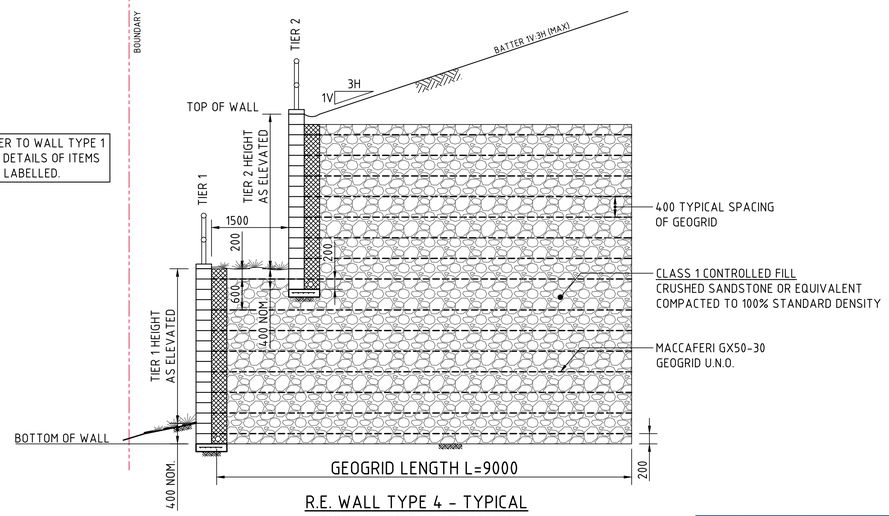
R.E. WALL TYPE 3 - TYPICAL
(TIERED RETAINING WALLS)

SCALE 1:50

ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEX WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 20584-6400

NOTE :

INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.



R.E. WALL TYPE 4 - TYPICAL
(TIERED RETAINING WALLS)

SCALE 1:50

ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEX WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 20584-6400

NOTE :

INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.

Subdivision Works Certificate

Certificate Number: 250062SW01

Issuing Officer: Garry Ryan

Registration Number: BDC0565

These plans/specifications form part of the certificate issued: 24/10/2025

BARKER RYAN STEWART

NOTE:

1. REFER TO DRAWING EW600 FOR RETAINING WALL NOTES.
2. REFER TO DRAWING EW611 TO EW616 FOR RETAINING WALL ELEVATIONS.
3. RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEX WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 20584-6400.

500mm 0 1 2 3 4 5m
SCALE 1:50 AT B1 SIZE SHEET

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
ISSUED FOR CONSTRUCTION CERTIFICATE	11.09.25	3
ISSUED FOR CONSTRUCTION CERTIFICATE	10.09.25	2
ISSUED FOR CONSTRUCTION CERTIFICATE	05.09.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

AMENDMENTS | DATE | ISSUE

ARCHITECT: PACEARCHITECTS

CLIENT: AWJ

PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

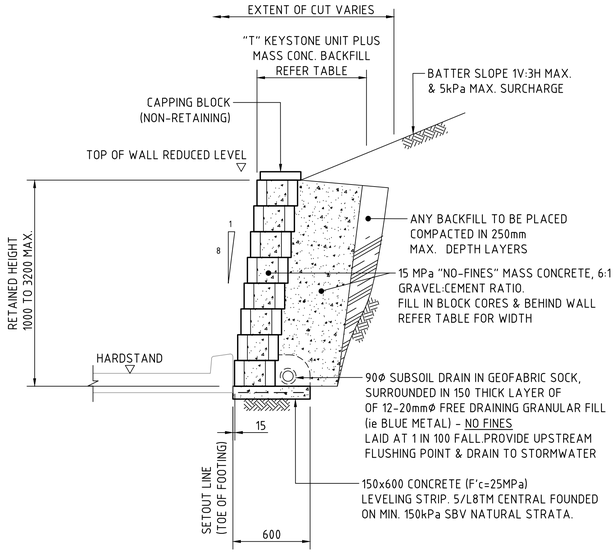
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW650

CONSULT AUSTRALIA

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DRAWING TITLE: RETAINING WALL DETAILS SHEET 1

DRAWING No: C013904.07-EW650 | ISSUE: 3

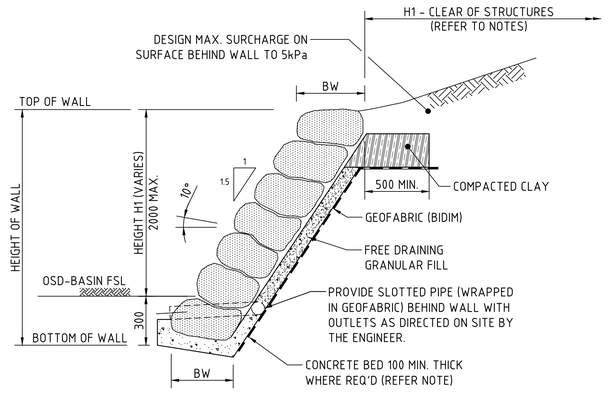


TYPICAL THRU' KEYSTONE RETAINING WALL
(1000 TO 2500 MAXIMUM RETAINED HEIGHT)
1:20 SCALE

KEYSTONE WALL SPECIFICATIONS :	
RETAINED HEIGHT (mm)	OVERALL THICKNESS "T" (mm)
UP TO 1000	600 - NO FINES MASS. CONC. FILL
1000 TO 1200	700 - NO FINES MASS. CONC. FILL
1200 TO 1800	950 - NO FINES MASS. CONC. FILL
1800 TO 2400	1200 - NO FINES MASS. CONC. FILL
2400 TO 2500	1450 - NO FINES MASS. CONC. FILL

NOTE :

INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.



BOULDER RETAINING WALL
SCALE 1:20

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

BOULDER RETAINING WALL NOTES

MINIMUM BEARING CAPACITY OF FOUNDATION TO BE 100kPa ASSUMING THE FOLLOWING:
- CLAY FOUNDATION Cu=50kPa, Ø=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. (400mm 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/m

FOR WALLS ABOVE 1000mm IN HEIGHT, THE FIRST LAYER OF BOULDERS ARE TO SET IN A BED OF N15 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

The works approved under this Subdivision Works Certificate are limited to the works that fall out of the road reserve associated with Augusta street only. No works outside the property boundary are approved under this Subdivision Works Certificate. Any works beyond the property boundary must be carried out under the relevant Roads Act approval. Extent of works as shown on drawing EW400 highlighted in blue and noted "subject to Subdivision works Certificate"

The only retaining walls approved under this Subdivision Works Certificate are Retaining Wall 1E in its entirety, and Retaining Wall 2D between chainages 134 and 181 only. All other retaining walls are not approved under this SWC. Where retaining walls have not been approved, temporary batters are to be provided in accordance with the PSM Specification.

The headwall and energy dissipation required as part of the culvert crossing approved as part of the roads act approval are included as part of this Subdivision Works Certificate.

NOTE:

1. REFER TO DRAWING EW600 FOR RETAINING WALL NOTES.
2. REFER TO DRAWING EW611 TO EW616 FOR RETAINING WALL ELEVATIONS.
3. ALL RETAINING WALLS DOCUMENTED DESIGNED BY D&C CONTRACTOR ERL/CIRTEX WITH DESIGN DOCUMENTS REFERENCED UNDER PROJECT 2058-6400.

Subdivision Works Certificate
Certificate Number: 250062SW01
Issuing Officer: Garry Ryan
Registration Number: BDC0565
These plans/specifications form part of the certificate issued: 24/10/2025
BARKER RYAN STEWART

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT B1 SIZE SHEET

FOR CONSTRUCTION CERTIFICATE

AMENDMENTS	DATE	ISSUE
ISSUED FOR CONSTRUCTION CERTIFICATE	10.09.25	2
ISSUED FOR CONSTRUCTION CERTIFICATE	05.09.25	1
FOR CONSTRUCTION CERTIFICATE	23.05.25	0
FOR PRELIMINARY	25.03.25	A

ARCHITECT: PACE ARCHITECTS
CLIENT: AWJ
PROJECT: PROPOSED WAREHOUSE DISTRIBUTION
AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MW	B1	AS SHOWN	C013904.07-EW651

CONSULT AUSTRALIA

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CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: RETAINING WALL DETAILS SHEET 2
DRAWING No: C013904.07-EW651
ISSUE: 2