

*HUNTINGWOOD EAST ESTATE
STA STREET, HUNTINGWOOD EAST, NSW
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

C013904.07-EW 400	STORMWATER DRAINAGE KEY PLAN
C013904.07-EW 410	BLACKTOWN CREEK REALIGNMENT PLAN
C013904.07-EW 415	WESTERN SWALE PLAN
C013904.07-EW 450	STORMWATER DRAINAGE DETAILS - SHEET 1
C013904.07-EW 451	STORMWATER DRAINAGE DETAILS - SHEET 2
C013904.07-EW 452	STORMWATER DRAINAGE DETAILS - SHEET 3
C013904.07-EW 453	STORMWATER DRAINAGE DETAILS - SHEET 4
C013904.07-EW 454	STORMWATER DRAINAGE DETAILS - SHEET 5
C013904.07-EW 455	STORMWATER DRAINAGE DETAILS - SHEET 6
C013904.07-EW 470	STORMWATER LONG SECTIONS

Compliance Certificate

Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part
of the certificate issued: 3/12/2025



DRAWING LIST

DRAWING NO.	DRAWING TITLE
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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
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

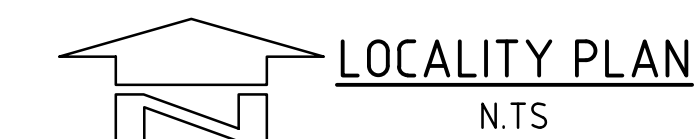
C013904.07-EW 600	RETAINING WALL KEY PLAN
C013904.07-EW 601	RETAINING WALL PLAN - WAREHOUSE 1, 2 & WESTERN SWALE
C013904.07-EW 602	RETAINING WALL PLAN - WAREHOUSE 3 & WESTERN SWALE
C013904.07-EW 603	RETAINING WALL PLAN - WAREHOUSE 4 & BLACKTOWN CREEK
C013904.07-EW 604	RETAINING WALL PLAN - WAREHOUSE 5 & BLACKTOWN CREEK

CO13904.07-EW 611	RETAINING WALL ELEVATIONS SHEET 1
CO13904.07-EW 612	RETAINING WALL ELEVATIONS SHEET 2
CO13904.07-EW 613	RETAINING WALL ELEVATIONS SHEET 3
CO13904.07-EW 614	RETAINING WALL ELEVATIONS SHEET 4
CO13904.07-EW 615	RETAINING WALL ELEVATIONS SHEET 5
CO13904.07-EW 616	RETAINING WALL ELEVATIONS SHEET 6
CO13904.07-EW 650	RETAINING WALL DETAILS - SHEET 1
CO13904.07-EW 651	RETAINING WALL DETAILS - SHEET 2

This Design Compliance Certificate only relates to the items listed below.

- Retaining wall 2D – CH 0 – 134 & CH 181 – 379.661
- Retaining wall 1A – Entire length
- Stormwater outlets – Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470

No other works are included as part of this Design Compliance certificate



GENERAL NOTES:

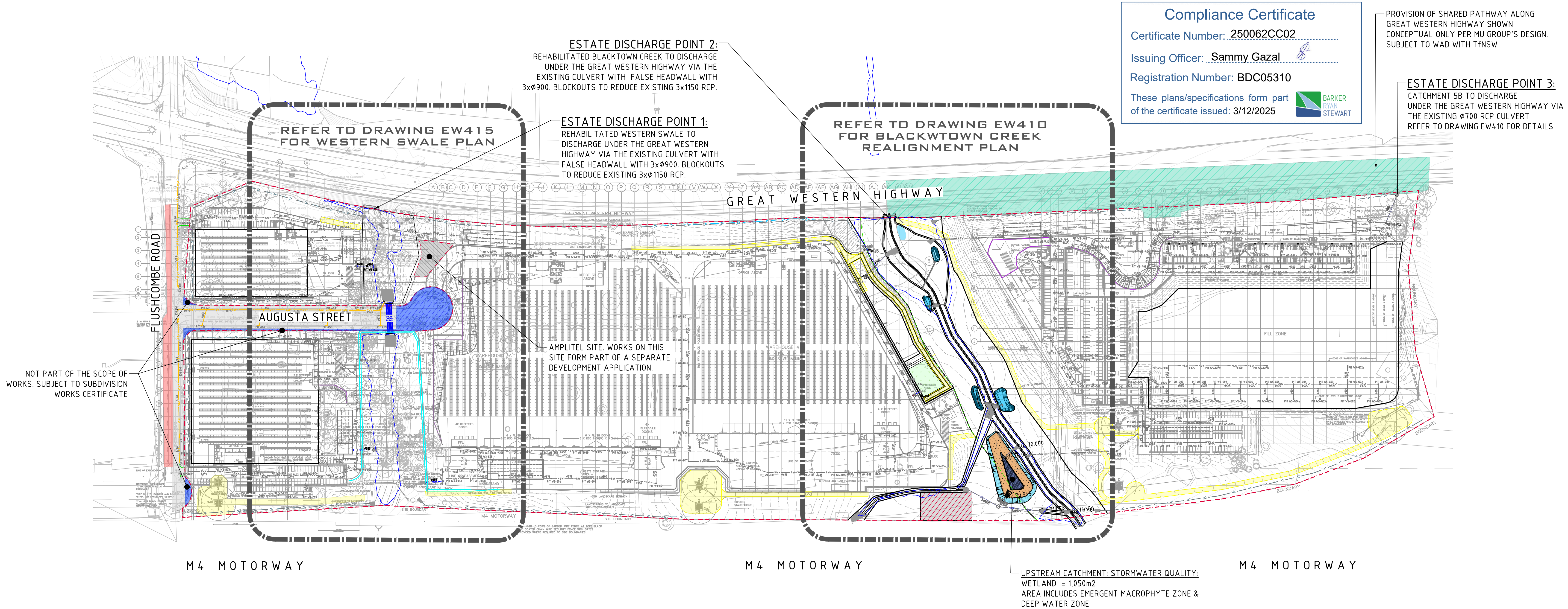
1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. ALL 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

REVISED AS CLOUDED27.11.253			ARCHITECT			CLIENT			PROJECT			CONSULT AUSTRALIA			Costin Roe Consulting Pty Ltd. ABN 50 005 696 446			CRC COSTIN ROE CONSULTING			CIVIL & STRUCTURAL ENGINEERS			DRAWING TITLE DRAWING LIST & GENERAL NOTES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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STORMWATER DRAINAGE KEY PLAN
SCALE 1:1500

STORMWATER DRAINAGE NOTES:

- ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500.3 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
- 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.
- ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS C013904.03-EW301 TO EW304.
- PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
- EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
- PUBLIC DOMAIN DRAINAGE TO BE MIN. CLASS 3 UNDER KERBS, AND CLASS 4 FOR PIPES CROSSING ROADS. ALL BEING TO BLACKTOWN COUNCIL SPECIFICATIONS OR MINIMUM HS2. MINIMUM SIZE 375mm.
- a. ALL PRIVATE STORMWATER PIPES Ø375 OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
- b. ALL PRIVATE PIPES UP TO AND INCLUDING Ø300 TO BE uPVC GRADE SN8 UNO.
- PIPE CLASS NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
- 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_{ck}=25 MPa. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER. IN ADDITION TO ITEM 9 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
- 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.
- 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.
- WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED Ø100 uPVC TO EACH SIDE OF PIPE.
- 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.
- WHERE SUBSOIL DRAINAGE PASSES UNDER A PAVEMENT OR A SLAB, UNSLOTTED UPVC ARE TO BE PROVIDED UNLESS NOTED OTHERWISE.
- ALL PIPE GRADES 1 IN 200 MINIMUM UNO.
- PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
- MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
- 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.
- PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
- 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.
- 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.
- 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:

- 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.

This Design Compliance Certificate only relates to the items listed below.

- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
- Retaining wall 1A - Entire length
- Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470

No other works are included as part of this Design Compliance certificate

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
- FINISHED PAVEMENT CONTOUR (MAJOR) 1.0m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.25m INTERVALS
- 1% AEP EXTENT
- FRESHWATER WETLAND
- EMERGENT ZONE
- DEEP WATER ZONE
- PROPOSED BIO-RETENTION ZONE
- PROPOSED MAINTENANCE TRACK
- SITE BOUNDARY

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

FOR CONSTRUCTION CERTIFICATE

ISSUED FOR CONSTRUCTION CERTIFICATE	10.11.25	4	
ISSUED FOR CONSTRUCTION CERTIFICATE	07.11.25	3	
SWC/WAD AREAS CLOUDED	25.07.25	2	
BLACKTOWN CREEK FFL REVISIONS	27.05.25	1	
FOR CONSTRUCTION CERTIFICATE	23.03.25	0	
FOR PRELIMINARY AMENDMENTS	25.03.25	A	
DATE	ISSUE	AMENDMENTS	

ARCHITECT	CLIENT
PACEARCHITECTS	AWJ

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

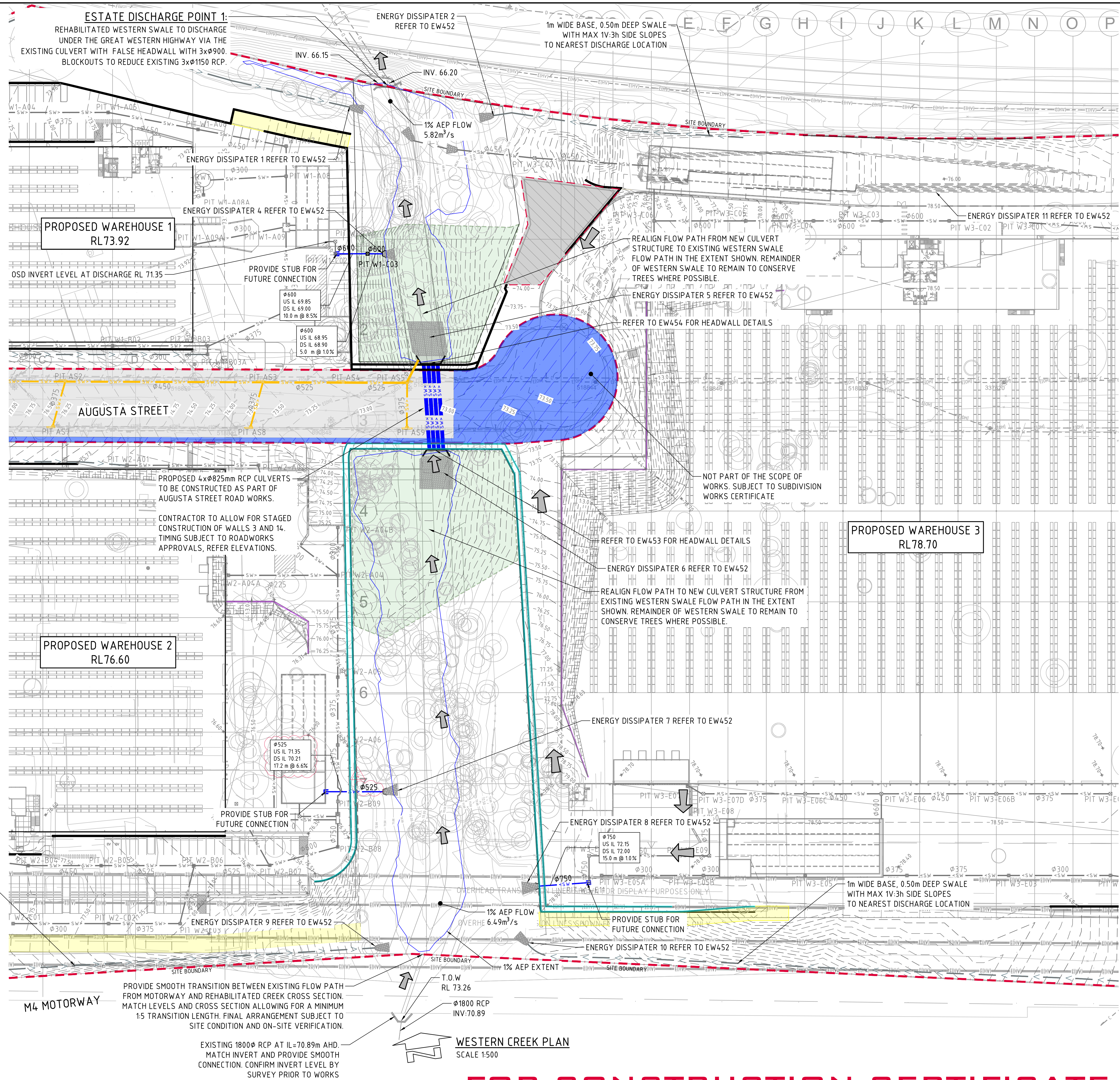
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
LDV	JB	MAR '25	MS	B1	AS SHOWN	C013904.07-EW400

CONSULT AUSTRALIA

Costin Roe Consulting Pty Ltd.
ABN 50 003 096 446
PO Box N419 Sydney NSW 1220
Level 4, 8 Windmill Street, Millers Point NSW 2000
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e: mail@costinroe.com.au w: costinroe.com.au

CRC	CIVIL & STRUCTURAL ENGINEERS
COSTIN ROE CONSULTING	

DRAWING TITLE	STORMWATER DRAINAGE KEY PLAN
DRAWING No.	C013904.07-EW400
ISSUE	5



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
- SW — FUTURE ESTATE DRAINAGE LINE
- SW — FUTURE ROAD DRAINAGE LINE
- > — OPEN SWALE
- 50.00 — EXISTING CONTOUR (0.20m INTERVAL)
- 50.00 — EARLY WORKS B.E.L. CONTOUR (MAJOR) 1.0m INTERVALS
- 50.25 — EARLYWORKS B.E.L. CONTOUR (MINOR) 0.25m INTERVALS
- 50.00 — B.E.L. SPOT LEVEL
- 1% AEP EXTENT
- FRESHWATER WETLAND
- EMERGENT ZONE
- DEEP WATER ZONE
- PROPOSED BIO-RETENTION ZONE
- PROPOSED MAINTENANCE TRACK
- SITE BOUNDARY

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

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Compliance Certificate

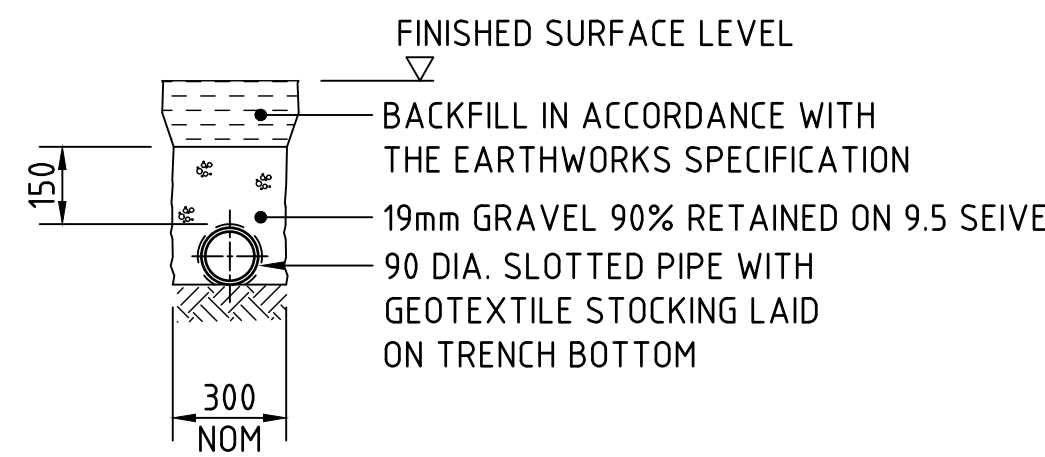
Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

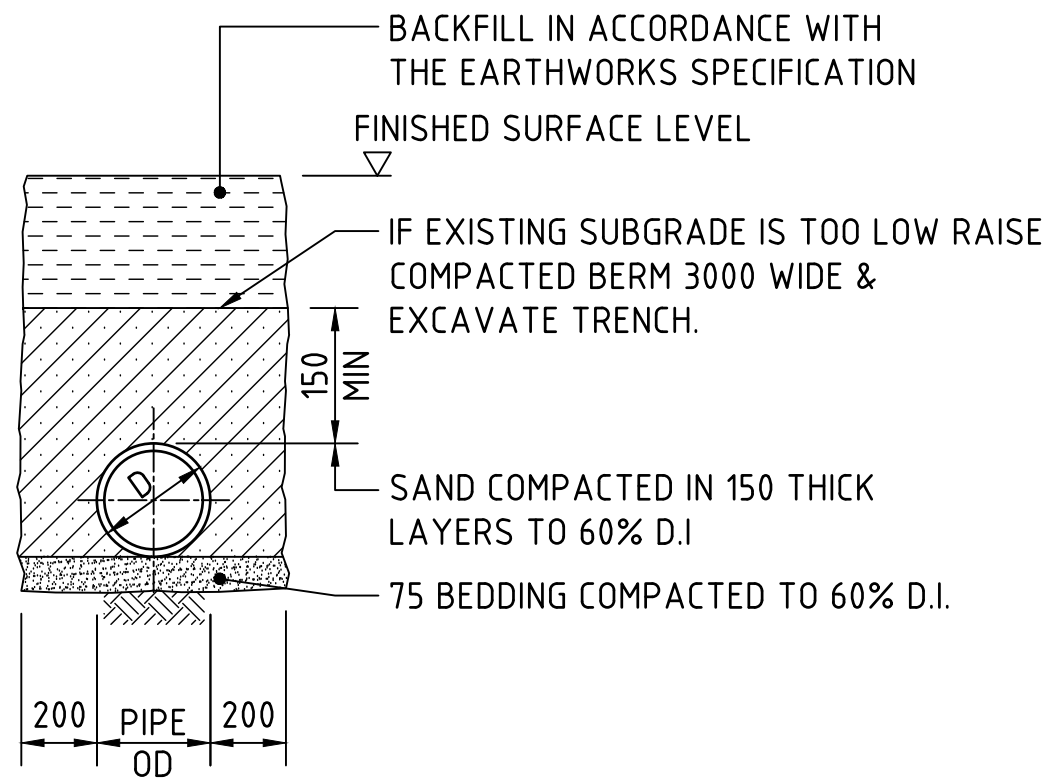
Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 3/12/2025

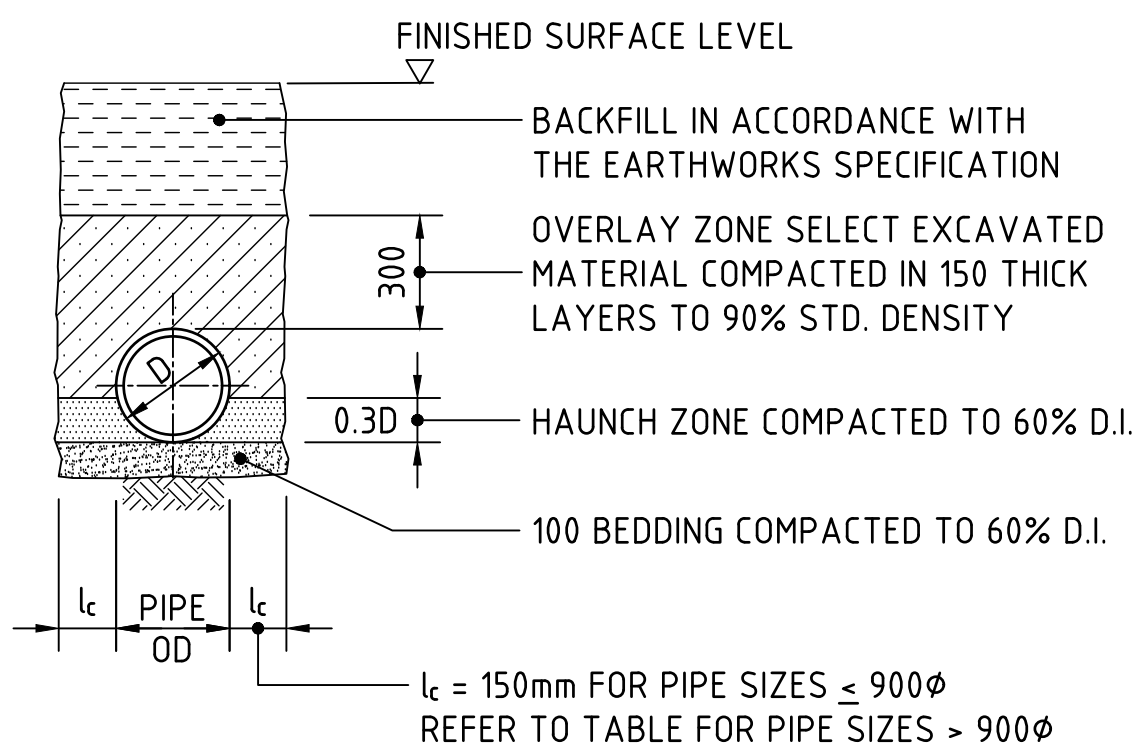
BARKER RYAN STEWART



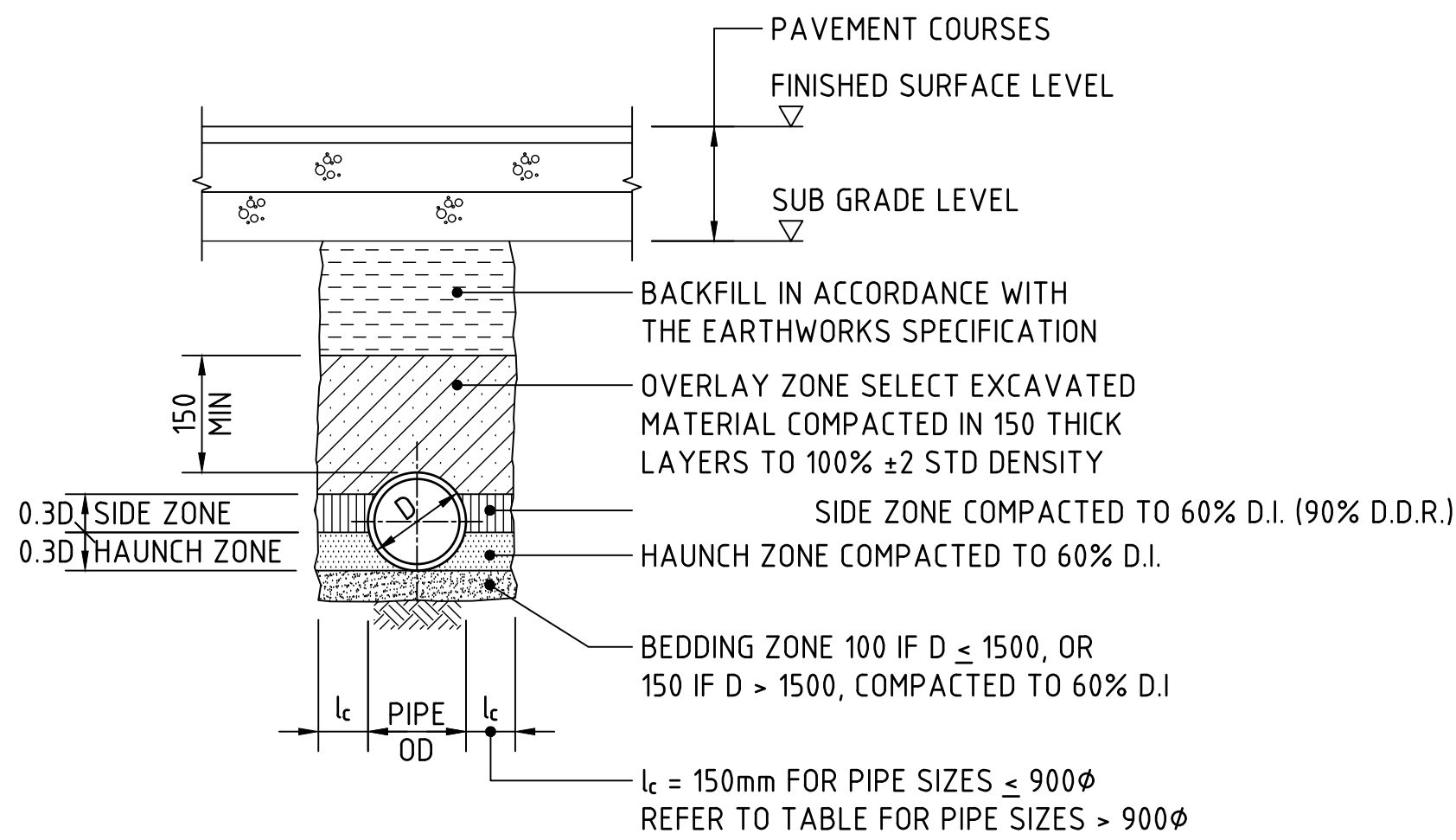
SUPPORT TO AGRICULTURAL DRAIN
SCALE 1:20



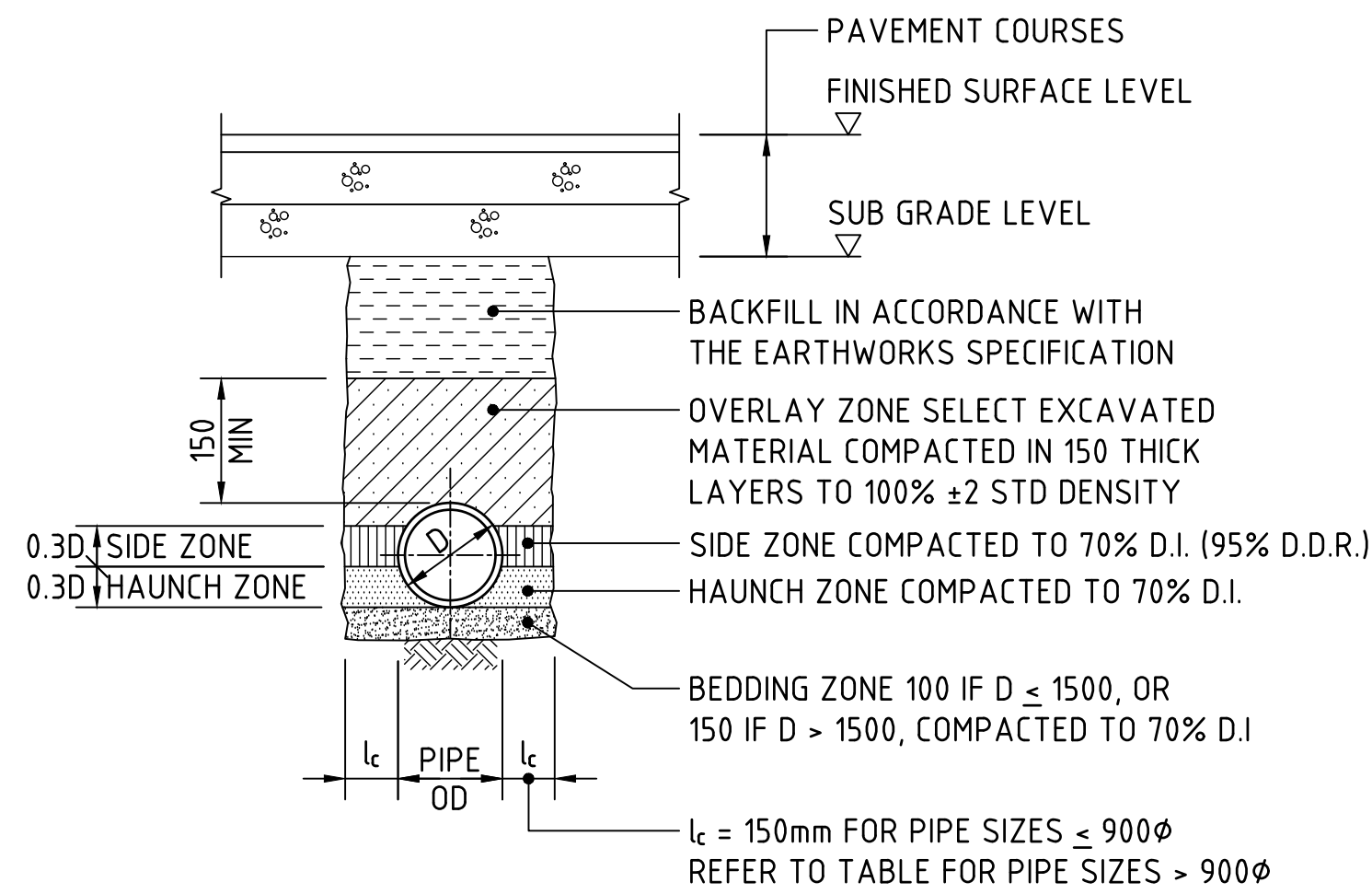
SUPPORT TO uPVC PIPES
SCALE 1:20



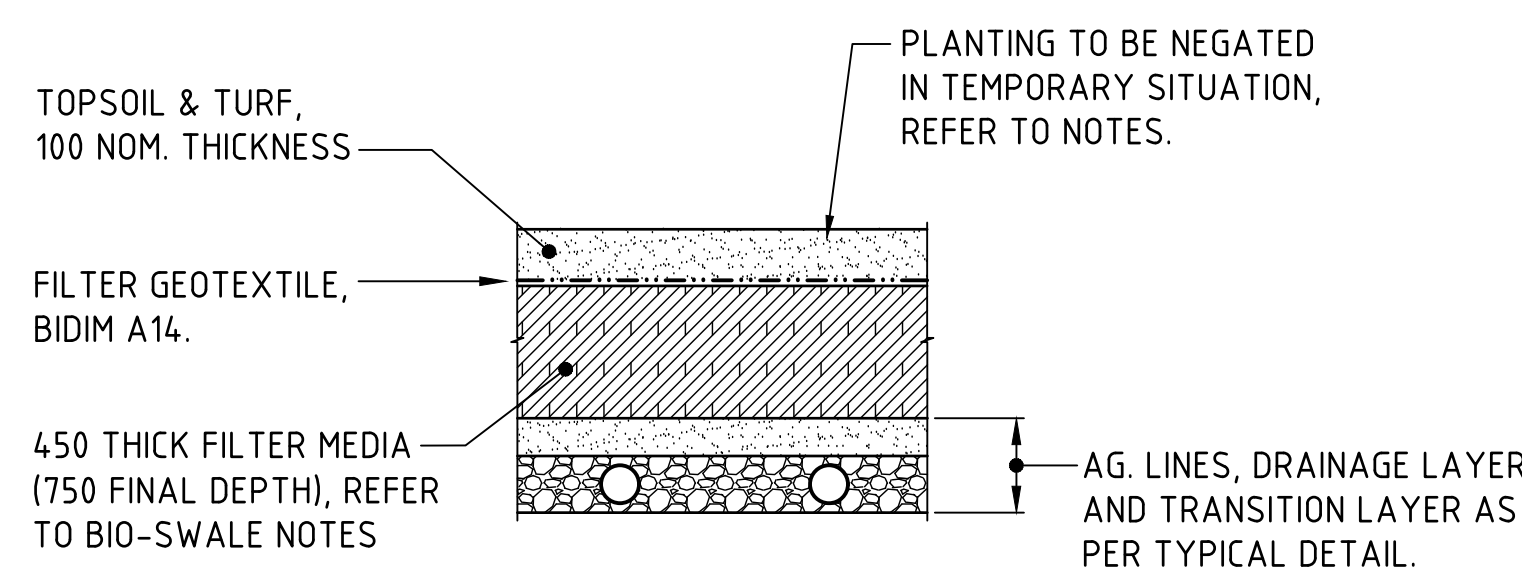
TYPE H1 SUPPORT TO CONCRETE PIPES AT LANDSCAPED AREAS
SCALE 1:20



TYPE HS2 SUPPORT TO CONCRETE PIPES UNDER PAVEMENT
SCALE 1:20
D ≤ 1350, MAX FILL = 4.0m
D > 1350, MAX FILL = 3.0m



TYPE HS3 SUPPORT TO CONCRETE PIPES UNDER PAVEMENT
SCALE 1:20
D ≤ 1050, MAX FILL = 6.0m
D > 1050, MAX FILL = 4.8m



TEMPORARY BIO-RETENTION PROTECTION DETAIL
SCALE 1:20
TEMPORARY CONSTRUCTION REQUIREMENT DETAIL - REFER TO NOTES FOR IMPLEMENTATION PERIODS.

BEDDING & HAUNCH MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

SIDE ZONE WIDTH	
PIPE SIZE (mm)	lc (mm)
≤ 900φ	150
1050φ	175
1200φ	200
1350φ	225
1500φ	250
1650φ	275
1800φ	300
ENGINEER TO SPECIFY TRENCH WIDTHS FOR PIPE SIZES GREATER THAN 1800φ	

SIDE ZONE MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
9.5	100 TO 50
2.6	100 TO 30
0.60	50 TO 15
0.075	25 TO 0
SELECT FILL MATERIAL IN ACCORDANCE WITH TABLE 1 AS 3725	

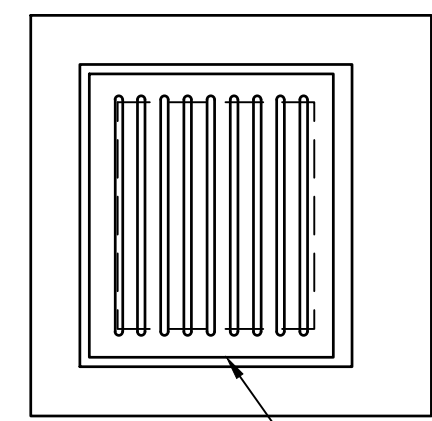
FOR CONSTRUCTION CERTIFICATE

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

Compliance Certificate
Certificate Number: 250062CC02
Issuing Officer: Sammy Gazal
Registration Number: BDC05310
These plans/specifications form part of the certificate issued: 3/12/2025

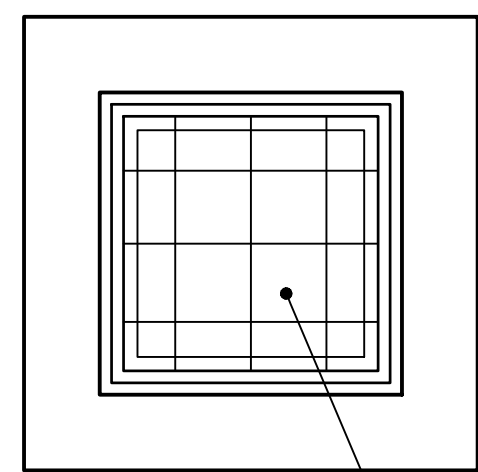
This Design Compliance Certificate only relates to the items listed below.
- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
- Retaining wall 1A - Entire length
- Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470
No other works are included as part of this Design Compliance certificate

FOR CONSTRUCTION CERTIFICATE		23.05.25		0			ARCHITECT		CLIENT		PROJECT		Costin Roe Consulting Pty Ltd.		DRAWING TITLE	
FOR PRELIMINARY		25.03.25		A			PACearchitects		AWD		PROPOSED WAREHOUSE DISTRIBUTION		PO Box N419 Sydney NSW 1220		STORMWATER DRAINAGE DETAILS	
AMENDMENTS		DATE		ISSUE	AMENDMENTS		DATE		ISSUE		AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148		Level 4, 8 Windmill Street, Millers Point NSW 2000		SHEET 1	
											CONSULT AUSTRALIA		p: +61 2 9251 7699		DRAWING No	
											COSTIN ROE CONSULTING		e: mail@costinroe.com.au		C013904.07-EW450	
											CIVIL & STRUCTURAL ENGINEERS		f: +61 2 9241 3731		ISSUE	
											COSTIN ROE CONSULTING		w: costinroe.com.au		0	



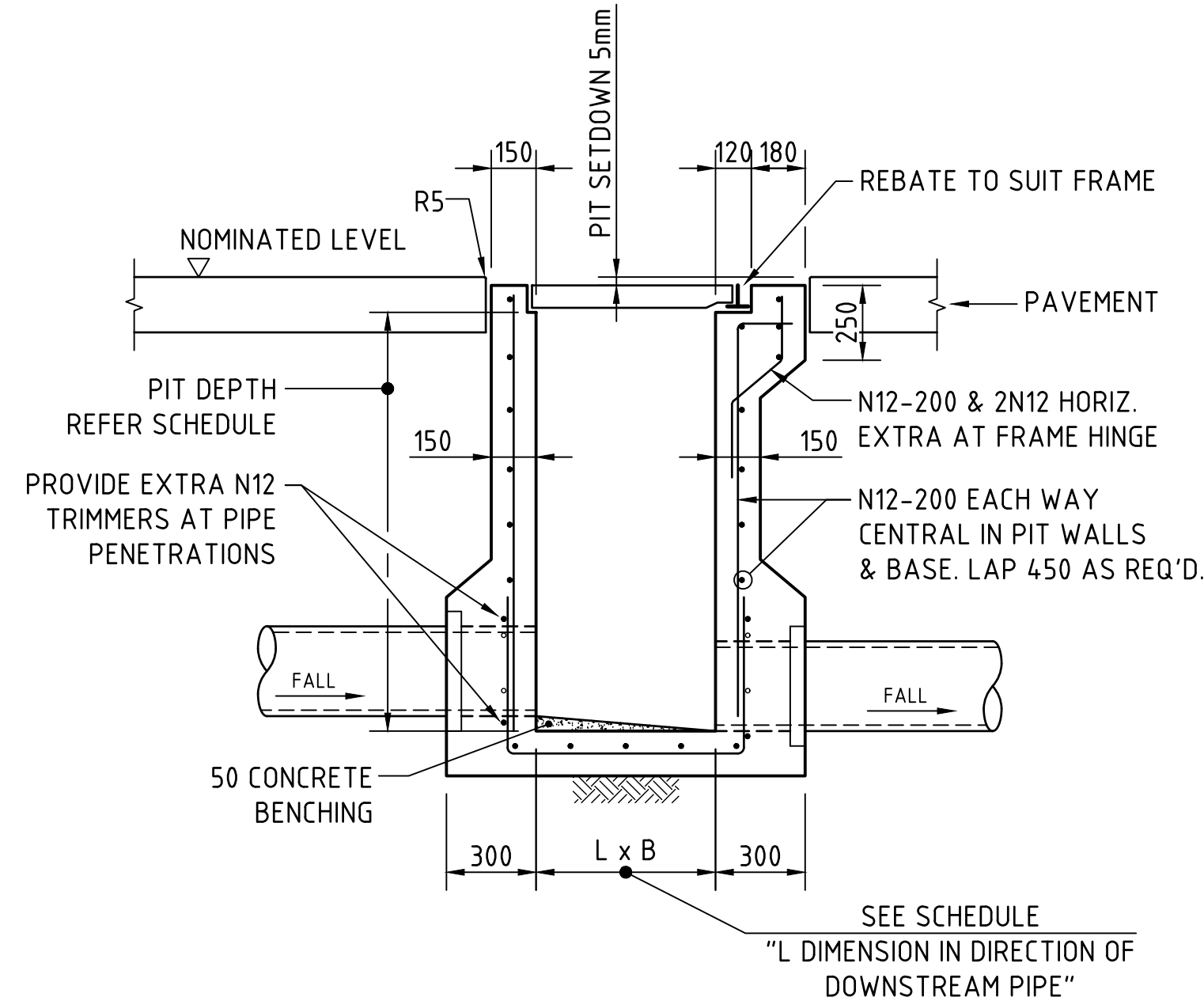
H.D. CAST IRON GRATE & TEE BAR FRAME (HINGED) 'GATIC' OR EQUAL. SEE SCHEDULE

PLAN
SCALE 1:20

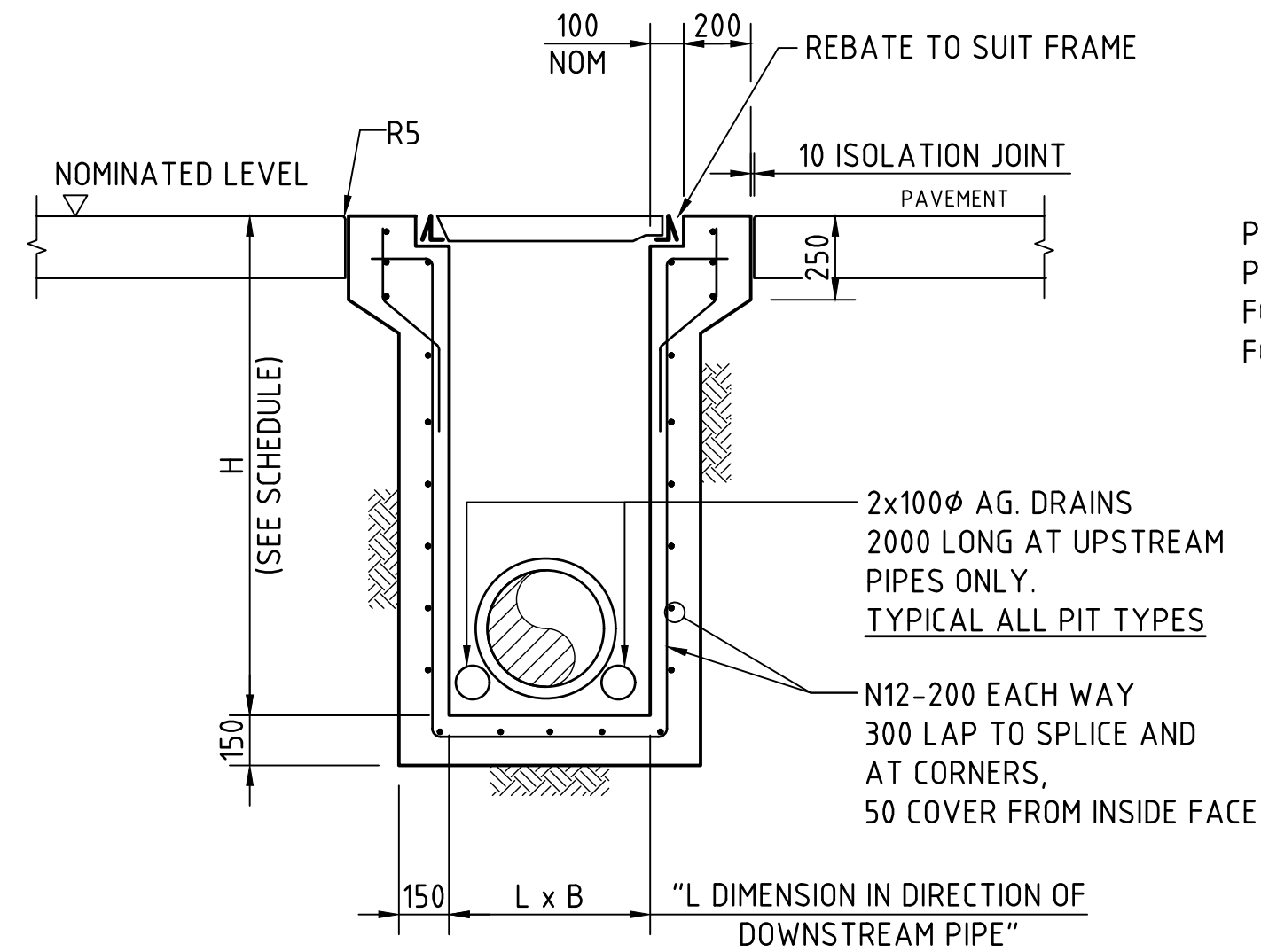


CONCRETE FILLED CAST IRON COVER & FRAME (GATIC OR EQUAL) SEE SCHEDULE

PLAN
SCALE 1:20



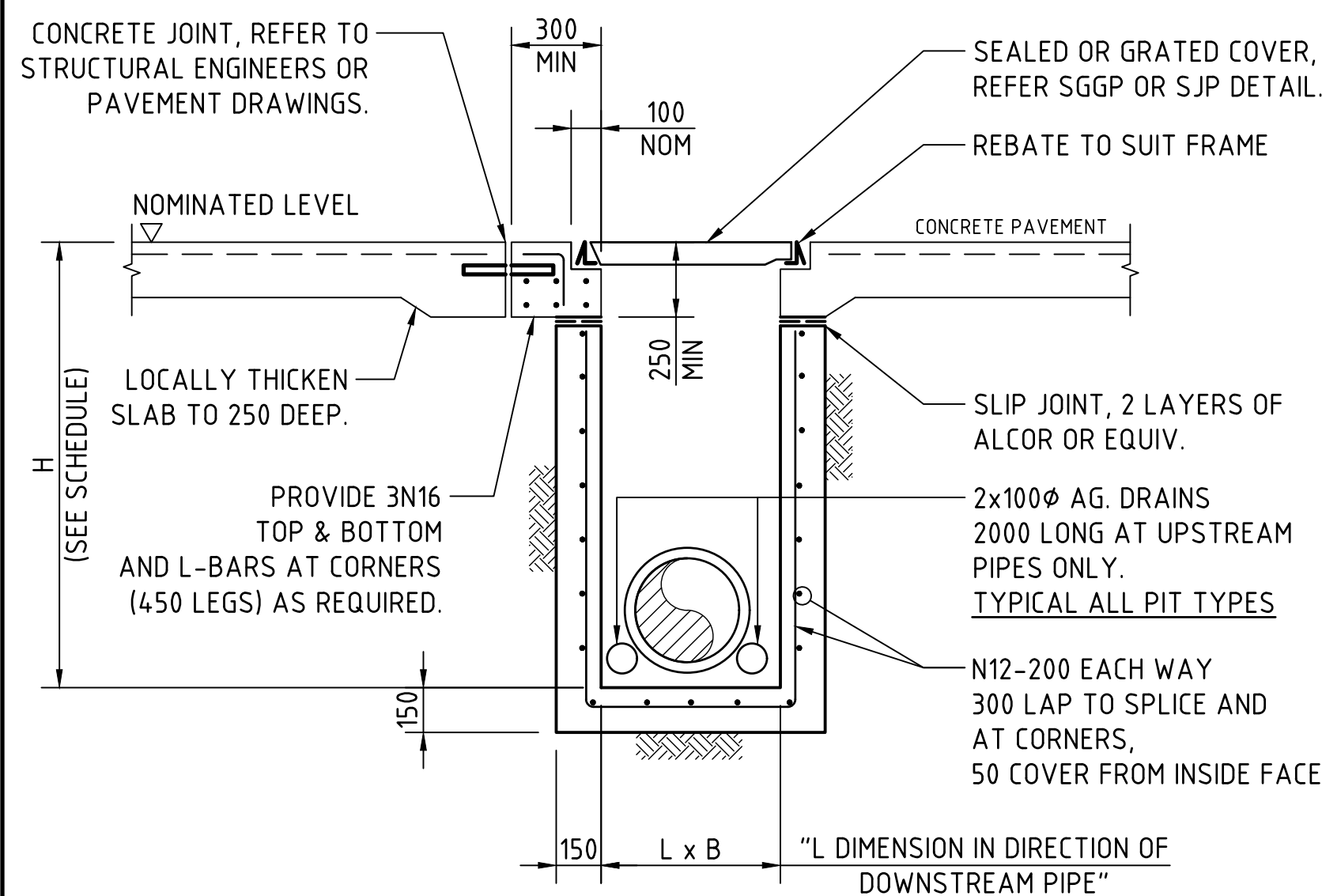
SECTION
SCALE 1:20



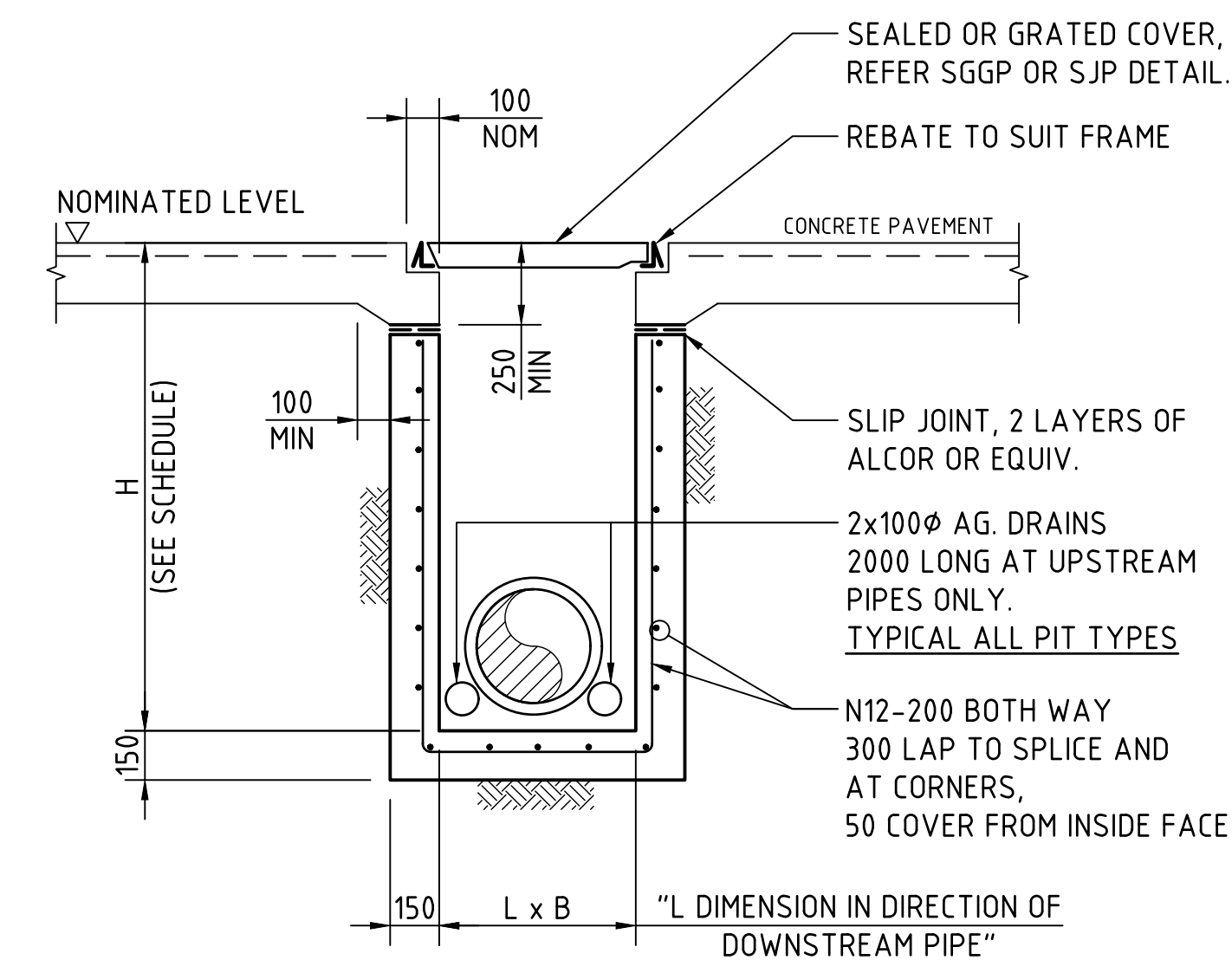
SECTION
SCALE 1:20

SINGLE GRATED GULLY PIT - SGGP

SEALED JUNCTION PIT - SJP



SECTION
SCALE 1:20



SECTION
SCALE 1:20

SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL

GRATE/COVER SUPPORT

CAST-INTO PAVEMENT SLAB

(ADOPT IN CONCRETE PAVEMENTS FOR SGGP's & SJP's, WHERE JOINTS ARE NOT LOCATED WITHIN PROXIMITY OF THE GRATE)

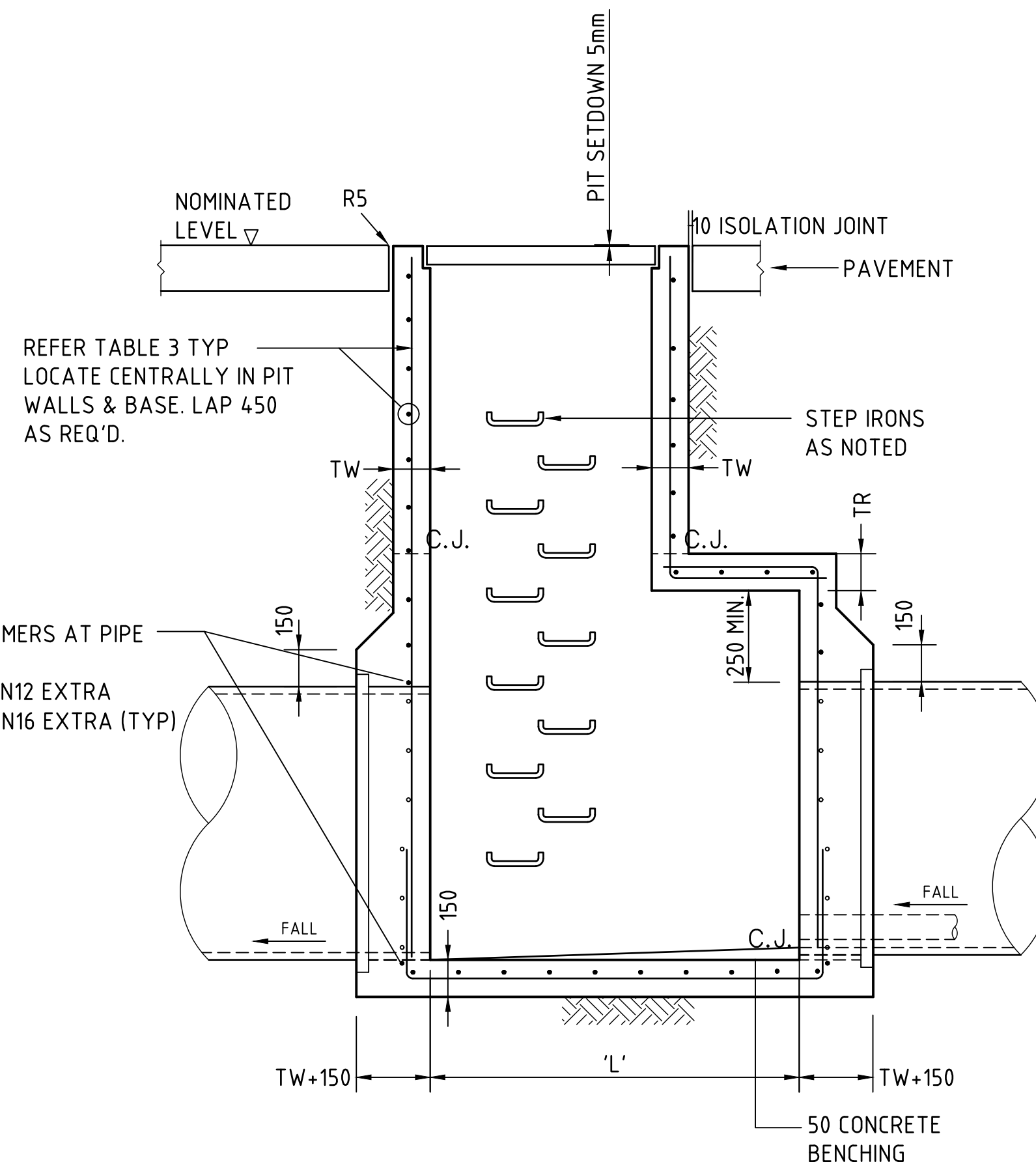
SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL

GRATE/COVER SUPPORT

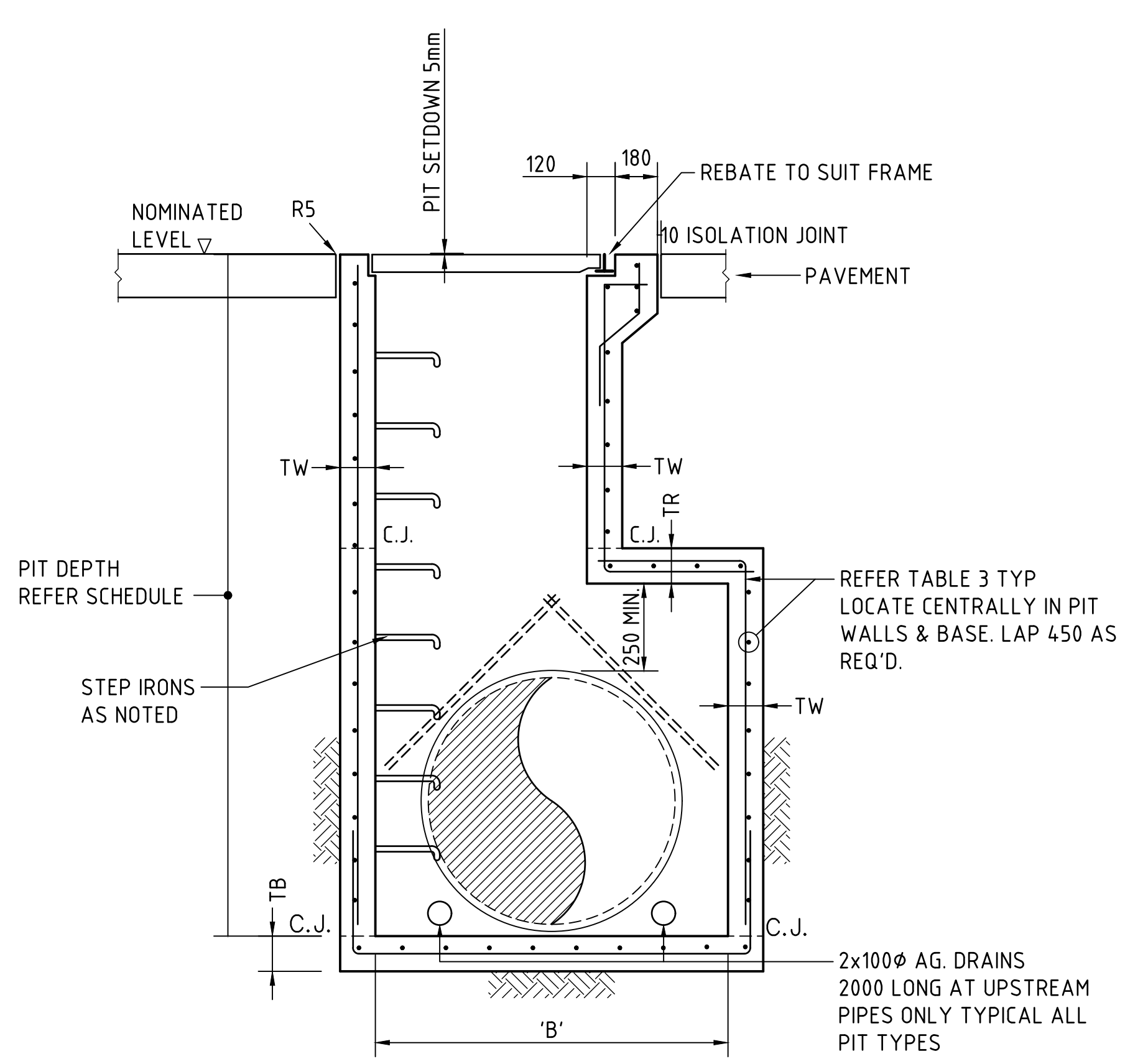
CAST-INTO PAVEMENT SLAB

(ADOPT IN CONCRETE PAVEMENT FOR SGGP's & SJP's, WHERE PITS ARE LOCATED IN THE CORNER OF SLAB PANELS OR ADJACENT TO SLAB PANEL JOINTS)

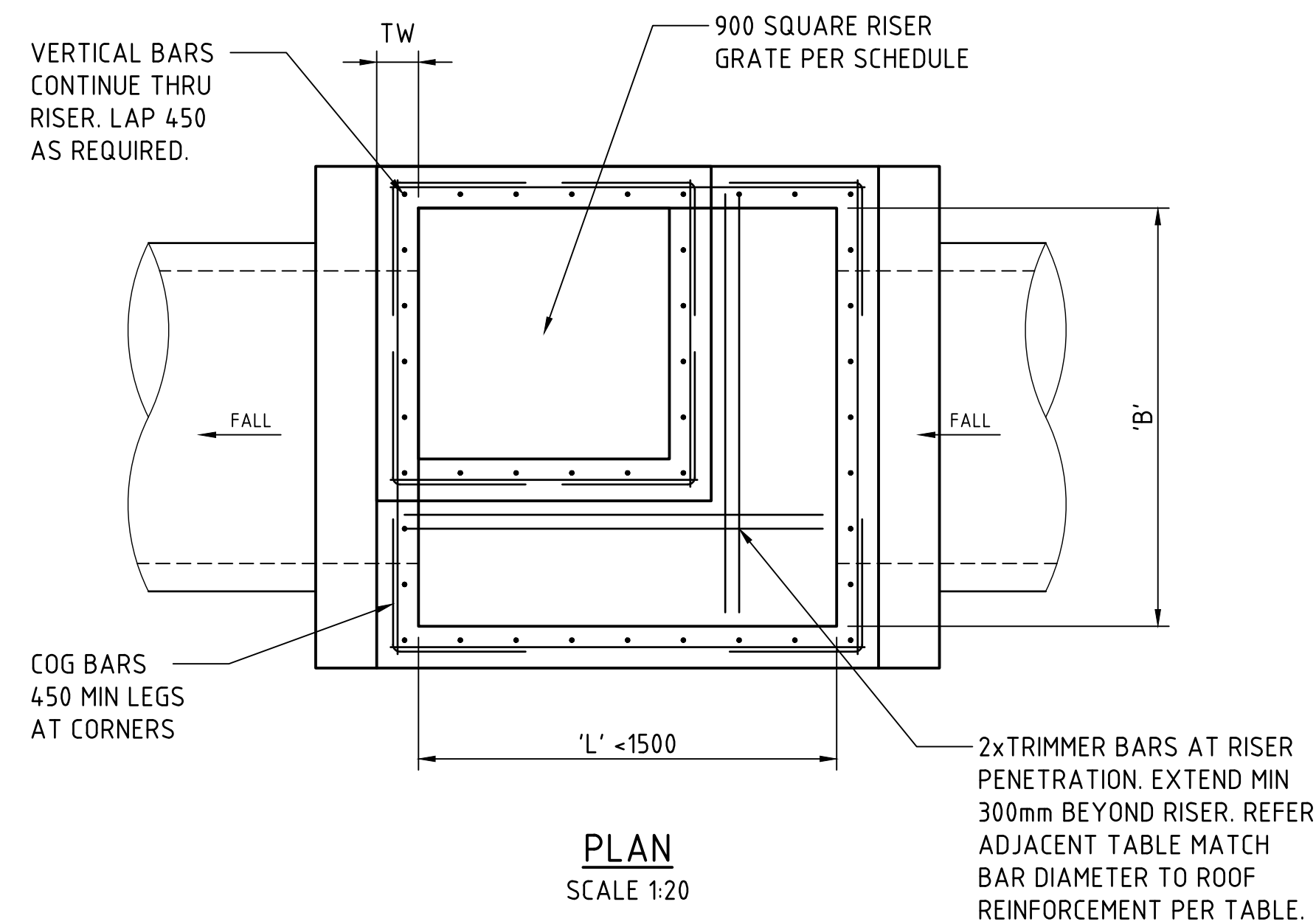
REFER TABLE 3 TYP
LOCATE CENTRALLY IN PIT
WALLS & BASE. LAP 450
AS REQ'D.



SECTION
SCALE 1:20



SECTION
SCALE 1:20



PLAN
SCALE 1:20

TAPERED SINGLE GRATED GULLY PIT - SGGP

SUBSOIL NOT SHOWN
FOR CLARITY.

TABLE 3 - TAPERED CLASS D PIT REINFORCEMENT & WALL THICKNESS						
DEPTH 'H'	WALL THICKNESS 'TW'	WALL REINFORCEMENT	ROOF THICKNESS 'TR'	ROOF REINFORCEMENT	BASE THICKNESS 'TB'	BASE REINFORCEMENT
<1.5m	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY
1.5m-3.0m	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY	150mm	N12-200 EACH WAY
3.0m-4.5m	200mm	N16-200 EACH WAY	200mm	N16-200 EACH WAY	200mm	N12-200 EACH WAY
4.5-6.0	250mm	N16-200 EACH WAY	250mm	N16-200 EACH WAY	250mm	N16-200 EACH WAY

Compliance Certificate

Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

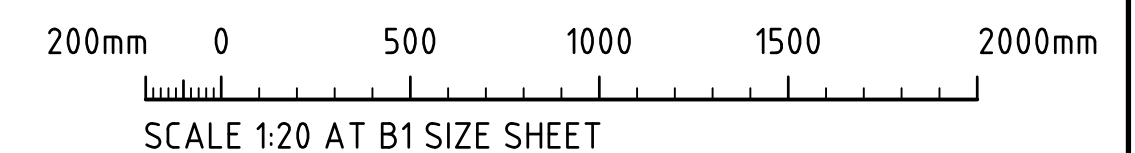
These plans/specifications form part
of the certificate issued: 3/12/2025



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- Retaining wall 1A - Entire length
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FOR CONSTRUCTION CERTIFICATE

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

ARCHITECT
PACEARCHITECTS

CLIENT
AWD

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

CONSULT AUSTRALIA

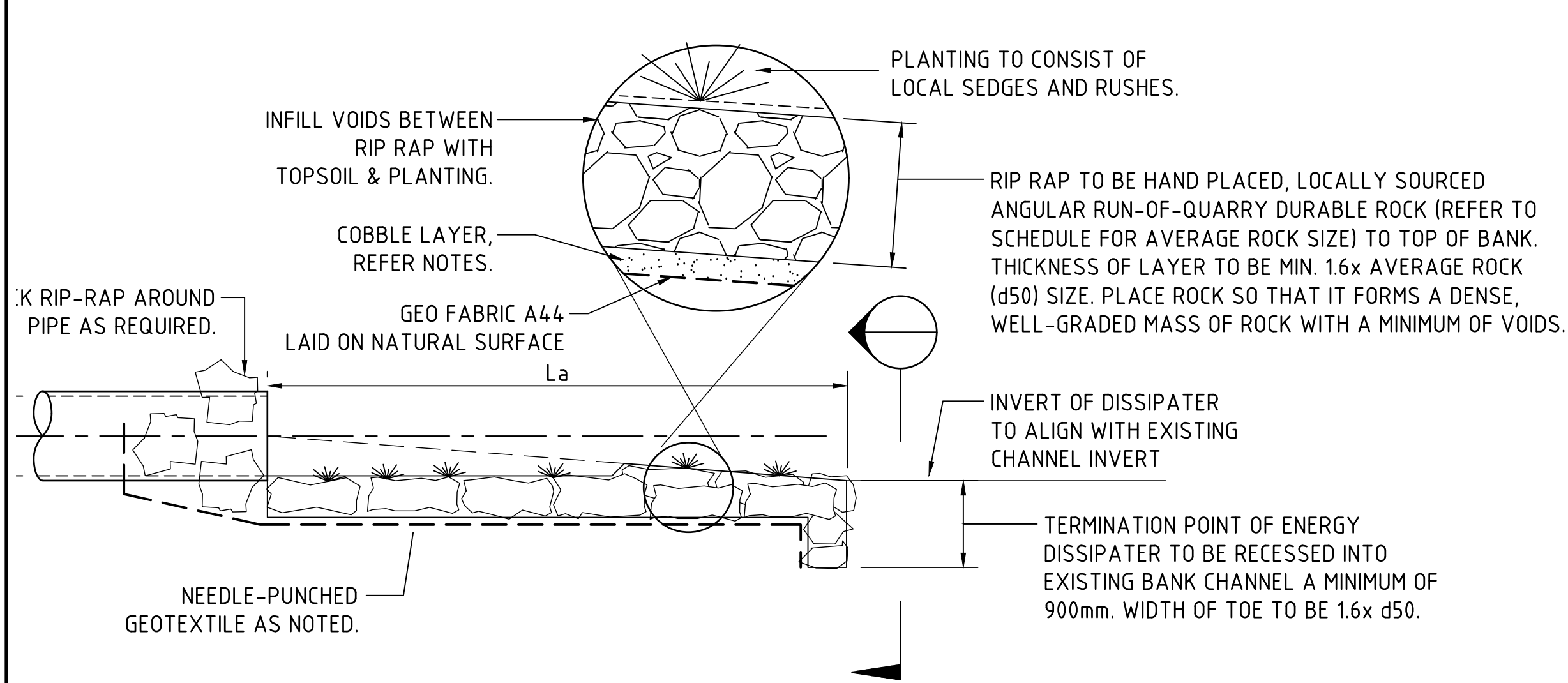
Costin Roe Consulting Pty Ltd.
ABN 50 003 696 446
PO Box N419 Sydney NSW 1220
Level 4, 8 Windmill Street, Millers Point NSW 2000
p: +61 2 9251 7699 f: +61 2 9241 3731
e: mail@costinroe.com.au w: costinroe.com.au

CRC
COSTIN ROE
CONSULTING
CIVIL &
STRUCTURAL
ENGINEERS

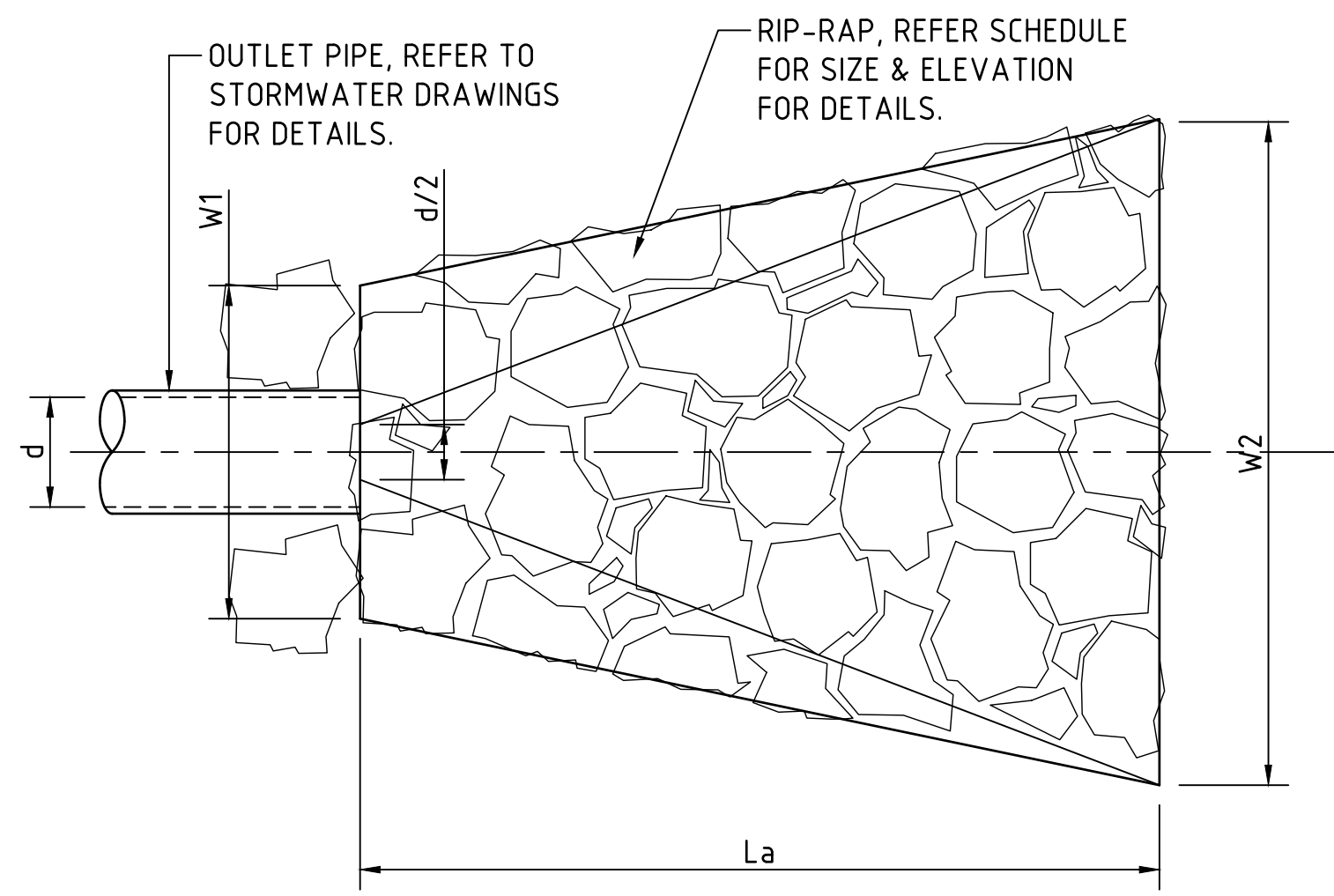
DRAWING TITLE
STORMWATER DRAINAGE DETAILS
SHEET 2

DRAWING No
C013904.07-EW451

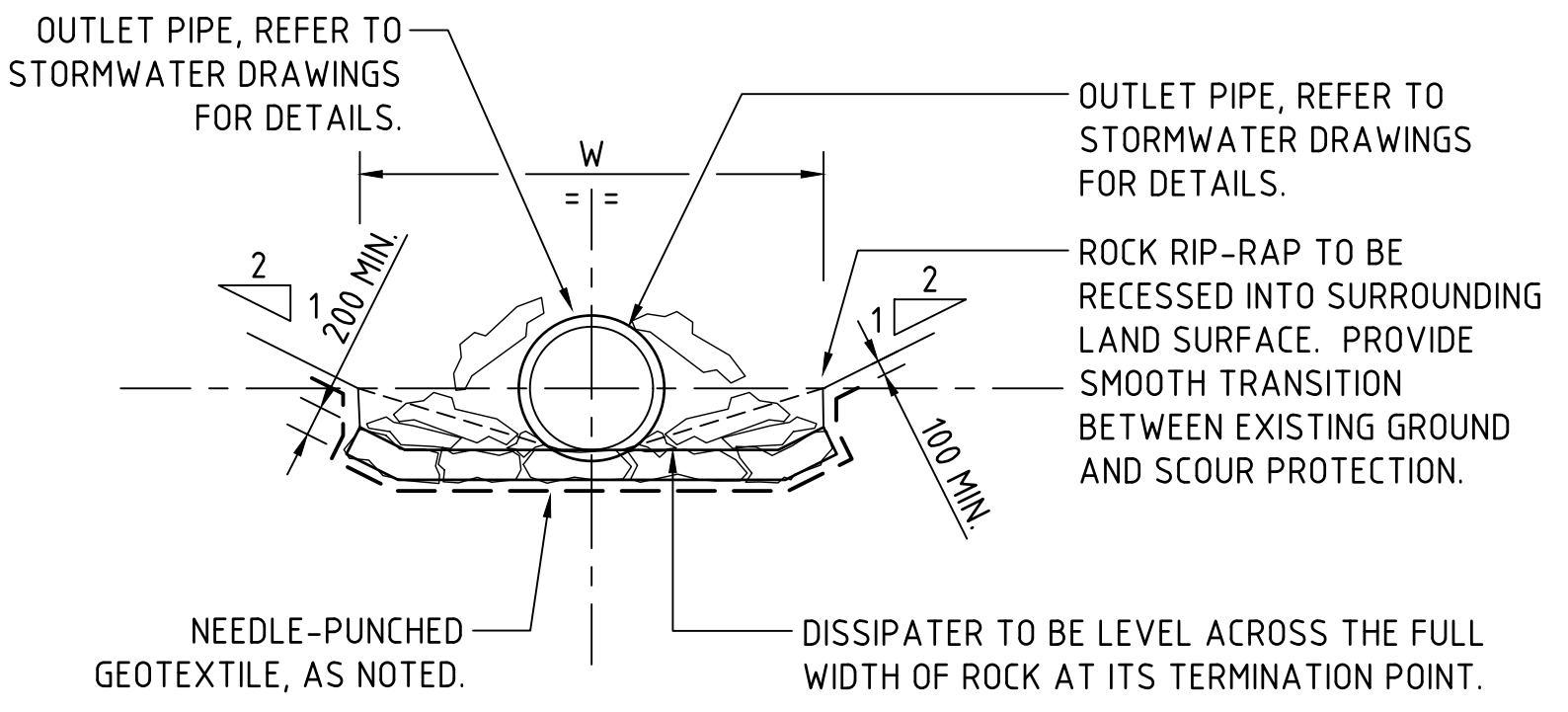
ISSUE
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ELEVATION
SCALE 1:50



PLAN
SCALE 1:50



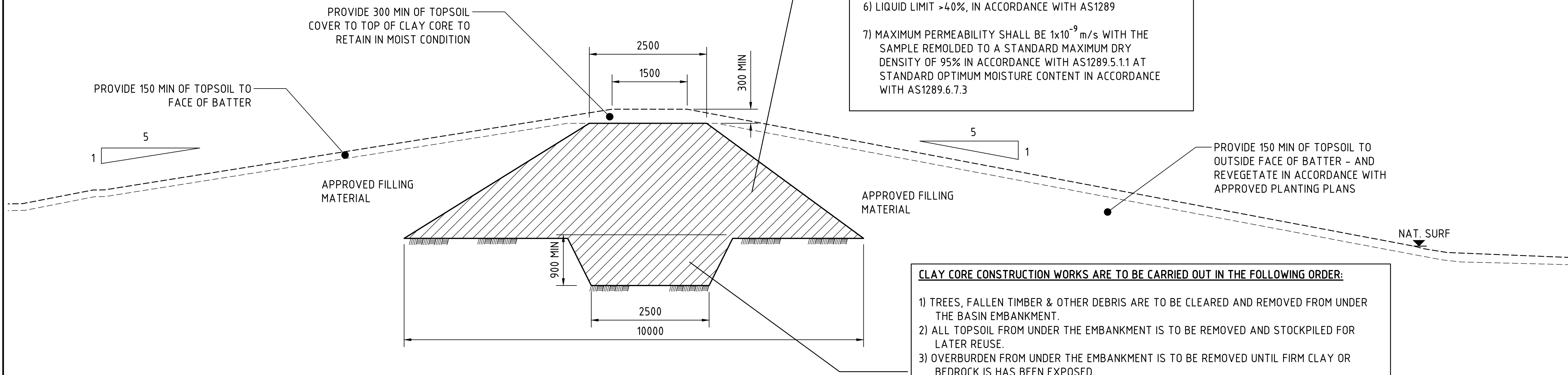
SECTION 1:50 1

- DISSIPATER NOTES:**
- ALIGN STRUCTURE EVENLY WITH BANK.
 - LOCATE STRUCTURE AT INVERT LEVEL OF STREAM AND POINT IN A DOWNSTREAM DIRECTION.
 - PIPE TO REST ON, AND BE PACKED IN, BY RIP-RAP (SIZE AS NOTED).
 - DISCHARGE INTO STREAM WHERE BEDROCK IS PRESENT, OTHERWISE SCOUR PROTECT AS REQUIRED.
 - SCOUR PROTECT THE OPPOSITE BANK AS REQUIRED. SCOUR PROTECTION TO BE PROVIDED WHERE OPPOSITE BANK IS WITHIN 12-14 TIMES THE PIPE DIAMETER.
 - 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).
 - RIP-RAP IS TO BE PLACED OVER A 200mm LAYER OF 140mm COBBLES OVER NEEDLE-PUNCHED GEOFAB A44.
 - 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.
 - 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.
 - ENSURE THE FINISHED ROCK SURFACE BLENDS WITH THE SURROUNDING GROUND LEVELS. NO OVERFALL OR PROTRUSION OF ROCK SHOULD BE APPARENT.
 - ENSURE THAT STORMWATER FROM SURROUNDING GROUND IS FREE TO ENTER THE STRUCTURE WITHOUT CAUSING UNDESIRABLE PONDING OR SCOUR.

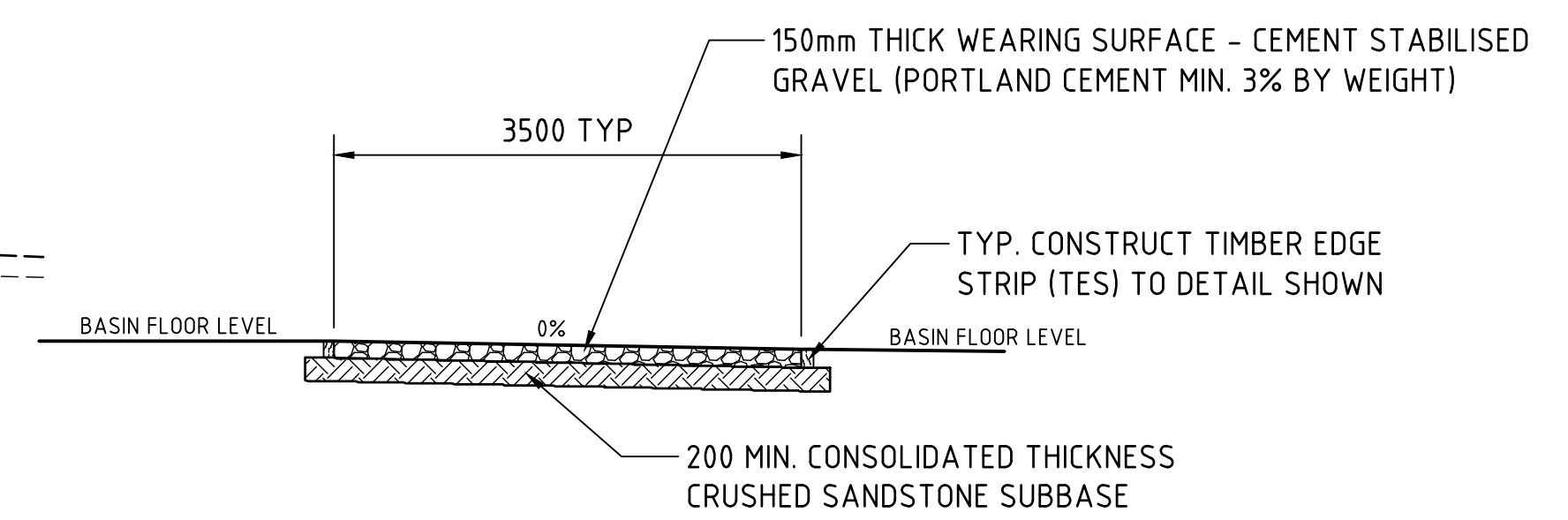
DISSIPATER SCHEDULE					
ENERGY DISSIPATER	DIAMETER(mm)/DIMENSIONS	LENGTH La (mm)	WIDTH 1 (mm)	WIDTH 2 (mm)	RIP-RAP (d50)
1	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
2	WIDTH 4m, DEPTH 0.5m	2000	4600	4800	200
3	450ø	1800	1100	1200	200
4	600ø	4500	1400	2600	100
5	4x825ø	3000	4000	4000	200
6	OVERLAND FLOW	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

STORMWATER OUTLET DISSIPATER

- CLAY CORE MATERIAL COMPLIANCE NOTES:**
- THE MATERIAL SHALL BE FREE OF ROCK GREATER THAN 50mm IN ANY DIRECTION.
 - THE MATERIAL SHALL BE GENERALLY FREE OF TOPSOIL, ORGANIC AND ROOT MATTER.
 - THE MATERIAL SHALL HAVE NO MORE THAN 10% EXCEEDING 19mm PARTICLE SIZE.
 - THE MATERIAL SHALL HAVE THE PERCENTAGE FINE (PASSING 0.075mm SIEVE) MORE THAN 50 % (IN ACCORDANCE WITH AS1289)
 - THE PLASTICITY INDEX >20%, IN ACCORDANCE WITH AS1289
 - LIQUID LIMIT >40%, IN ACCORDANCE WITH AS1289
 - MAXIMUM PERMEABILITY SHALL BE 1×10^{-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



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



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

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- Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470

No other works are included as part of this Design Compliance certificate

- CLAY CORE CONSTRUCTION WORKS ARE TO BE CARRIED OUT IN THE FOLLOWING ORDER:**
- TREES, FALLEN TIMBER & OTHER DEBRIS ARE TO BE CLEARED AND REMOVED FROM UNDER THE BASIN EMBANKMENT.
 - ALL TOPSOIL FROM UNDER THE EMBANKMENT IS TO BE REMOVED AND STOCKPILED FOR LATER REUSE.
 - OVERBURDEN FROM UNDER THE EMBANKMENT IS TO BE REMOVED UNTIL FIRM CLAY OR BEDROCK IS HAS BEEN EXPOSED.
 - A CORE TRENCH OF AT LEAST 900mm DEEP IS TO BE EXCAVATED INTO IMPERMEABLE, STABLE FOUNDATION MATERIAL CONSISTING OF EITHER CLAY OR BEDROCK.
 - THE STRIPPED AREA BELOW THE EMBANKMENT IS TO BE SLIGHTLY SCARIFIED TO A DEPTH NOT EXCEEDING 100mm.
 - THE CLAY CORE MUST BE CENTRALLY PLACED AND EXTEND FOR THE FULL LENGTH AND HEIGHT OF THE BANK.
 - 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.
 - THE COMPLETED CORE AND EMBANKMENT SHOULD BE BUILT 5% HIGHER THAN SPECIFIED, ALLOW FOR SETTLEMENT.
 - 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.

Compliance Certificate

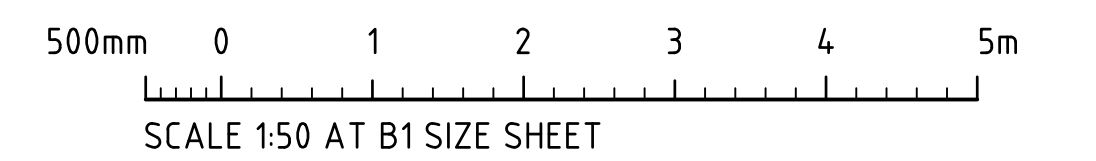
Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 3/12/2025

BARKER
STEWART



FOR CONSTRUCTION CERTIFICATE

FOR CONSTRUCTION CERTIFICATE			ARCHITECT			CLIENT			PROJECT			Costin Roe Consulting Pty Ltd.			DRAWING TITLE		
FOR PRELIMINARY			23.05.25			PACearchitects			PROPOSED WAREHOUSE DISTRIBUTION			ABN 50 003 696 446			STORMWATER DRAINAGE DETAILS		
AMENDMENTS			25.03.25			AWD			AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148			Level 4, 8 Windmill Street, Millers Point NSW 2000			SHEET 3		
			DATE			DATE			DESIGNED			PO Box N419 Sydney NSW 1220			DRAWING No		
			ISSUE			AMENDMENTS			LDV			Level 4, 8 Windmill Street, Millers Point NSW 2000			C013904.07-EW452		
									JB			p: +61 2 9251 7699			ISSUE		
									MAR '25			e: mail@costinroe.com.au			0		
									MW			f: +61 2 9241 3731					
									SIZE			w: costinroe.com.au					
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									SCALE								
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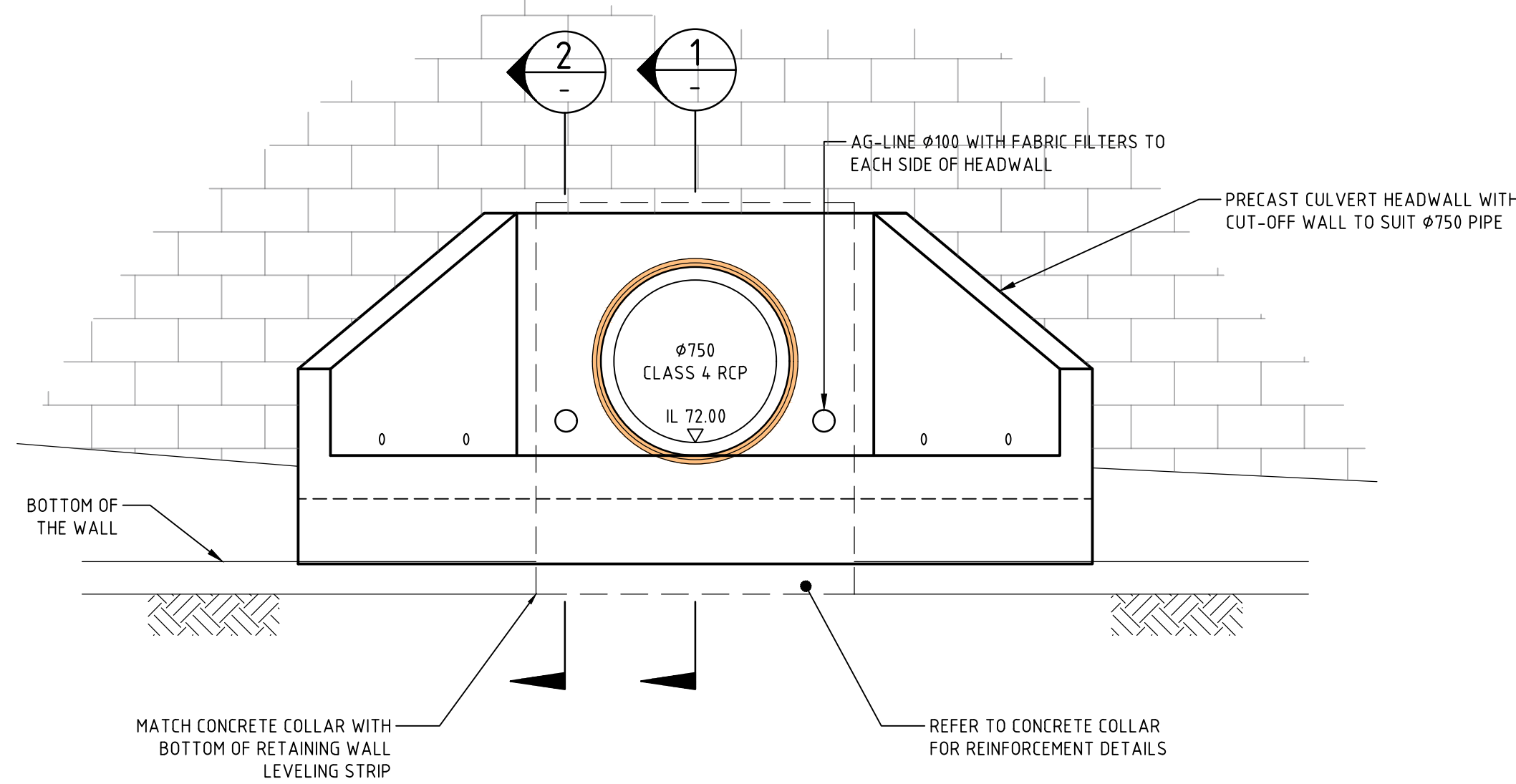
Compliance Certificate

Certificate Number: 250062CC02

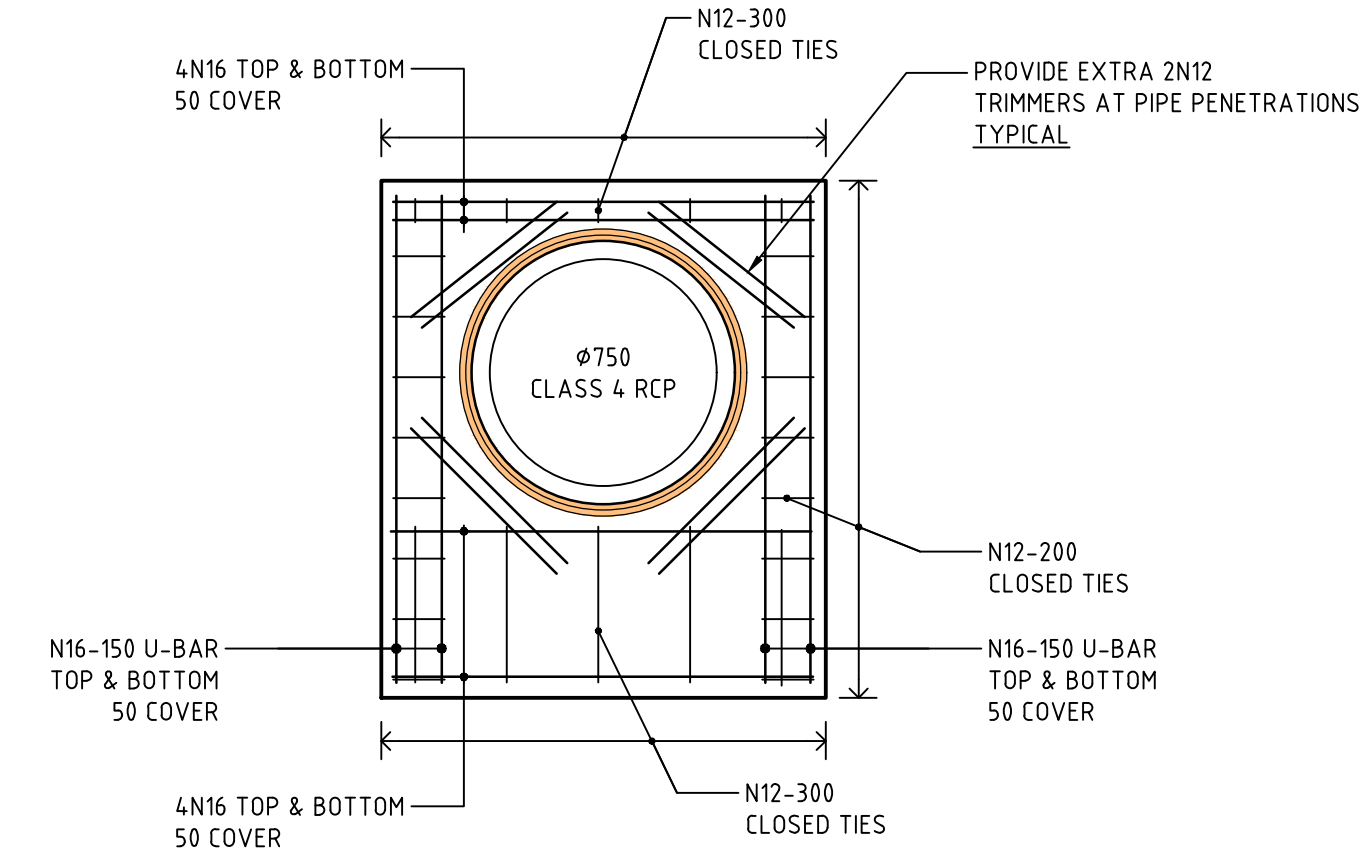
Issuing Officer: Sammy Gazal

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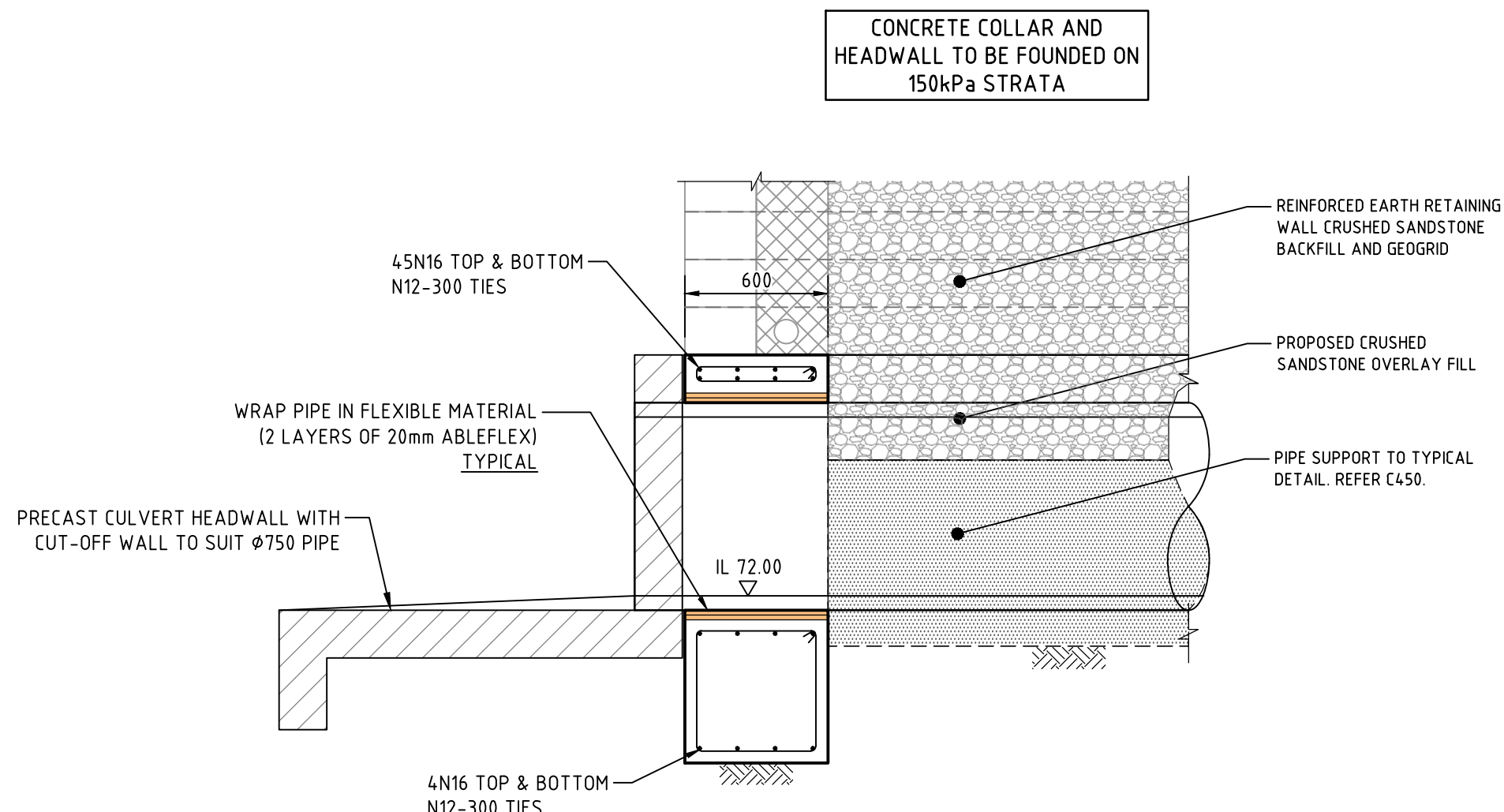
These plans/specifications form part of the certificate issued: 3/12/2025



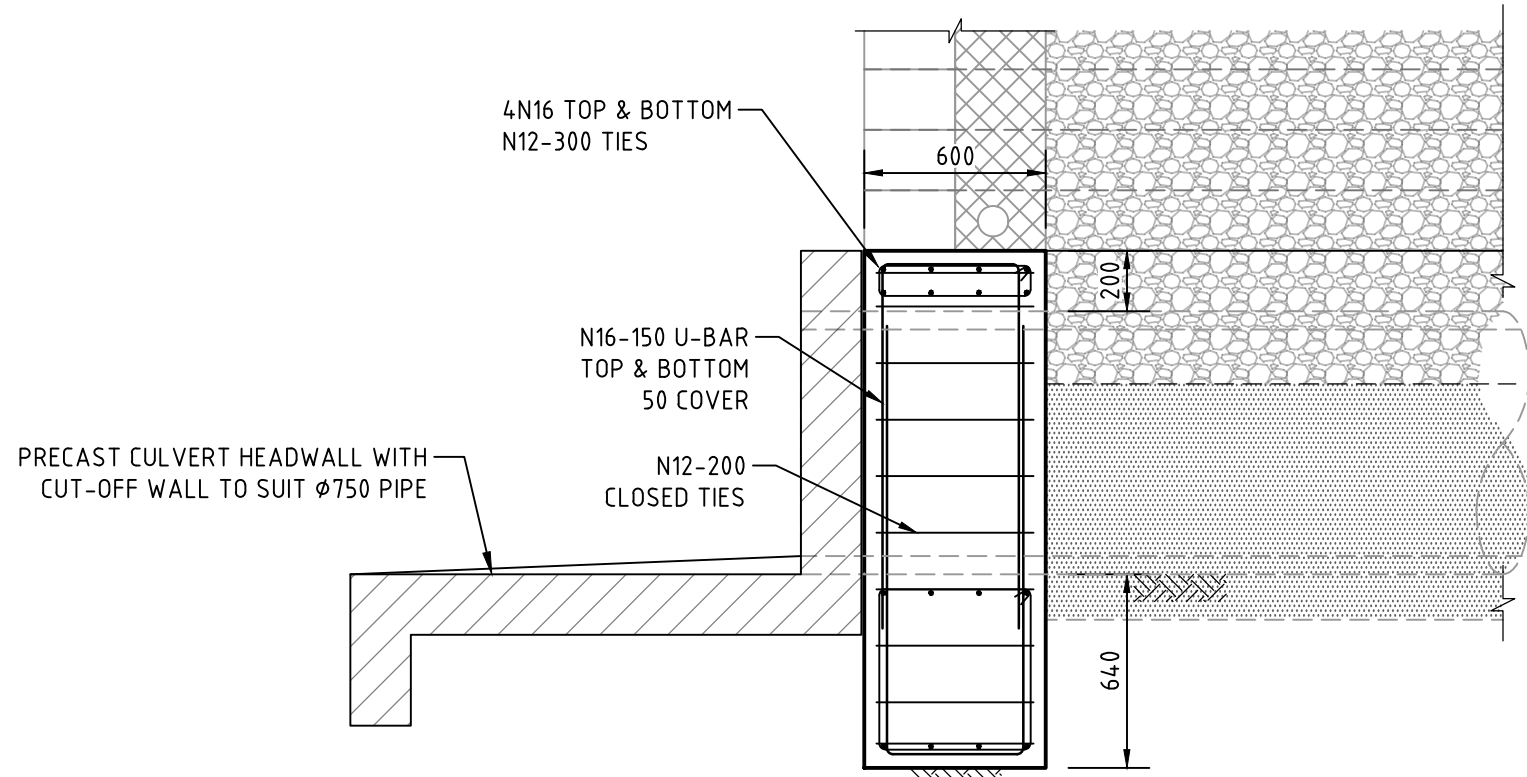
HEADWALL ELEVATION
SCALE 1:25



CONCRETE COLLAR REINFORCEMENT
SCALE 1:25



SECTION 1:25



SECTION 2:25

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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
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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	-

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

CONCRETE NOTES (CONTINUED):

- 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.

CONCRETE NOTES (CONTINUED):

- 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 DIAGMATICALLY 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.

- 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 ALGOR PROVIDED BETWEEN WALL AND SLAB. ALL OTHER BUILDING ELEMENTS SHALL BE KEPT 15mm MINIMUM CLEAR FROM SOFFITS OF THE STRUCTURE.

CONCRETE NOTES (CONTINUED):

- 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	10° TO 20°	5° TO 10°	UNDER 5°
VERTICAL UNLOADED	WALL, COLUMN, BEAM SIDE	0	2	3	5	7
VERTICAL LOADING	WALL, COLUMN OR LOADING 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

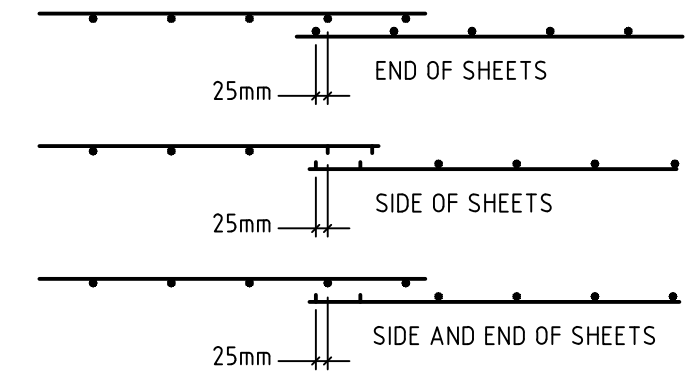
EFFECTIVE SPAN IS THE MAXIMUM DISTANCE BETWEEN SUPPORTS (EITHER TEMPORARY OR PERMANENT).

- 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

CONCRETE NOTES (CONTINUED):

- C28 MINIMUM MESH LAPS



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.

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, DEEPEEN EXCAVATION AS REQUIRED TO REMOVE ANY SOFT SPOTS AND EXPOSE SUITABLE FOUNDATION STRATA. THIS MATERIAL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.

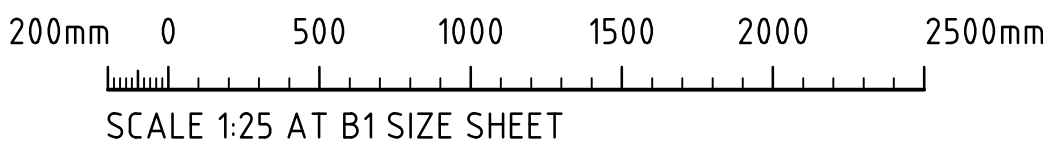
- SP9 SITE REGRADED OR ENGINEERED FILL SHALL BE CLEAN MATERIAL COMPACTED TO 100% SMOO WITHIN +2% OF OPTIMUM MOISTURE CONTENT IN LAYERS OF 250mm LOOSE THICKNESS.
- SP10 MAXIMUM PARTICLE SIZE OF FILL TO BE HALF THE LOOSE LAYER THICKNESS OR TWO-THIRDS THE COMPACTED LAYER THICKNESS.
- SP11 SERVICE TRENCH 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.

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 ENGINEER.
- R4 COVER TO ALL BASE REINFORCEMENT TO BE MINIMUM 50mm U.N.O.
- R5 MESH LAPS SHALL BE MADE SO THAT THE TWO OUTERMOST WIRES OF ONE FABRIC OVERLAP THE TWO OUTERMOST WIRES OF THE SHEET BEING LAPPED.
- R6 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.

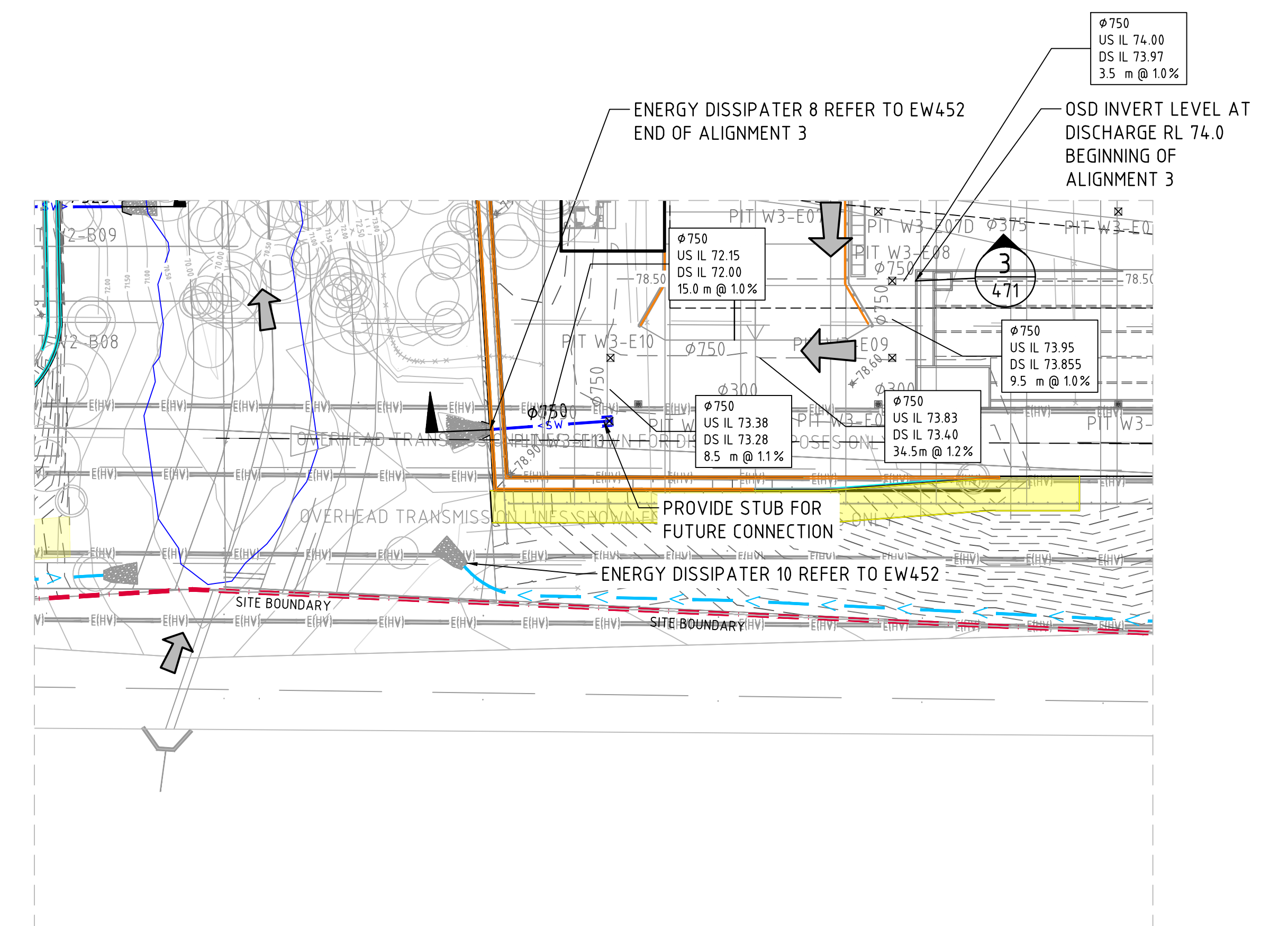
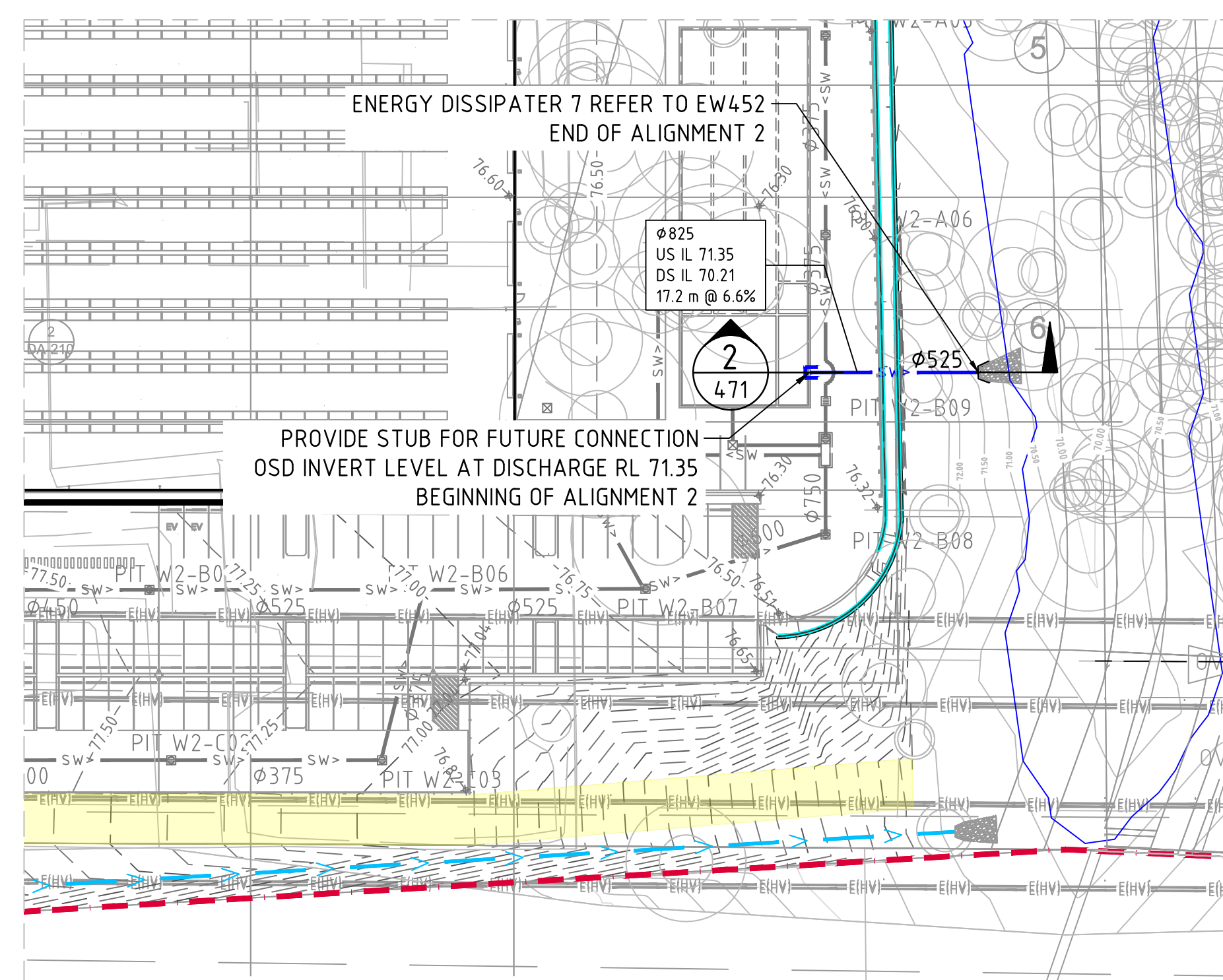
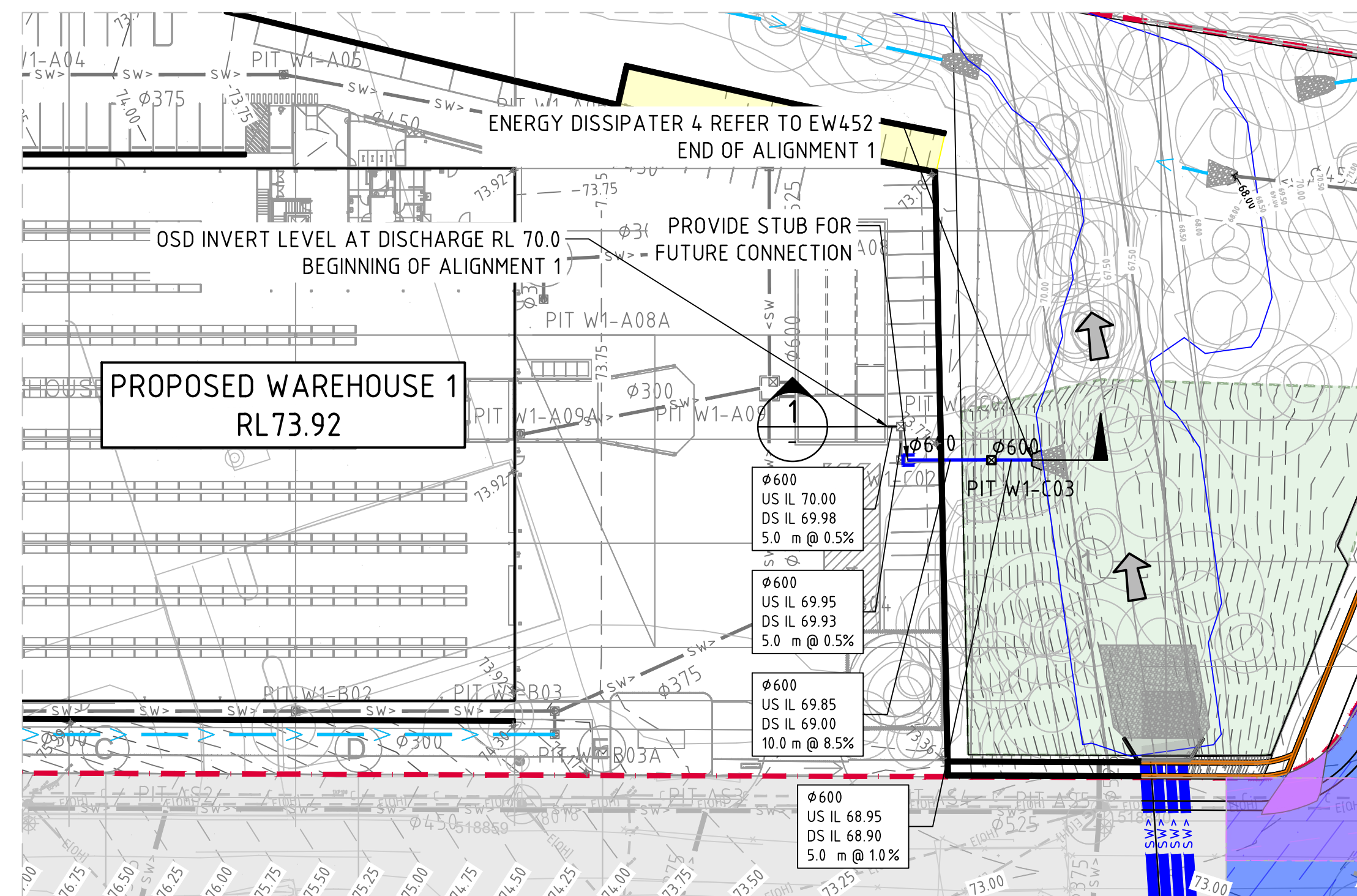
CONCRETE COLLAR AND HEADWALL TO BE FOUNDED ON 150kPa STRATA

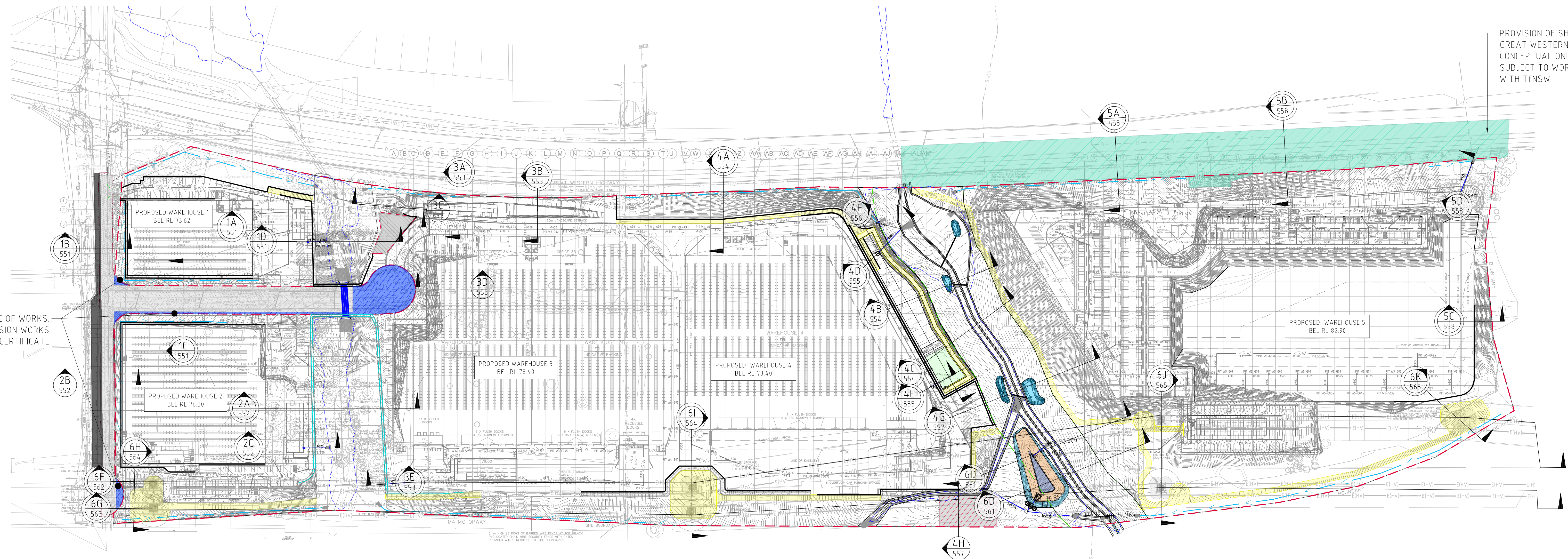
CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
CONCRETE COLLAR	80	20	GP	NIL	32



FOR CONSTRUCTION CERTIFICATE

						ARCHITECT			CLIENT			PROJECT						Costin Roe Consulting Pty Ltd. ABN 50 003 696 446 PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3731 e: mail@costinroe.com.au w: costinroe.com.au						DRAWING TITLE		
						PACearchitects						PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148												STORMWATER DRAINAGE DETAILS - SHEET 6		
ISSUED FOR CONSTRUCTION CERTIFICATE			11.11.25			0																		DRAWING No.		
AMENDMENTS			DATE			ISSUE			AMENDMENTS			DATE			ISSUE									C013904.07-EW455		
																								ISSUE		
																								0		

[illegible]



LEGEND:

LEVELS DATUM IS AHD.

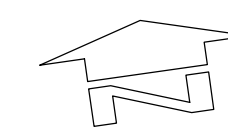
EXISTING LEVELS ARE BASED ON INFORMATION PROVIDED BY LANDPARTNERS TITLED SY074904.002.2.2 DATED 04/03/2022.

- SW — - PROPOSED DRAINAGE LINE
- > — - OPEN SWALE
- 50.00 — - FINISHED PAVEMENT CONTOUR (MAJOR) 1.0m INTERVALS
- 50.25 — - FINISHED PAVEMENT CONTOUR (MINOR) 0.25m INTERVALS
- 1% AEP EXTENT
- FRESHWATER WETLAND
- EMERGENT ZONE
- DEEP WATER ZONE
- PROPOSED BIO-RETENTION ZONE
- PROPOSED MAINTENANCE TRACK
- SITE BOUNDARY

This Design Compliance Certificate only relates to the items listed below.

- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
- Retaining wall 1A - Entire length
- Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470

No other works are included as part of this Design Compliance certificate



KEY SECTIONS PLAN
SCALE 1:1500

Compliance Certificate

Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 3/12/2025



FOR CONSTRUCTION CERTIFICATE

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

ISSUED FOR CONSTRUCTION CERTIFICATE	02.12.25	4
ISSUED FOR CONSTRUCTION CERTIFICATE	10.11.25	3
ISSUED FOR CONSTRUCTION CERTIFICATE	07.11.25	2
SWC/WAD AREAS CLOUDED	25.07.25	1
FOR CONSTRUCTION CERTIFICATE	26.05.25	0
FOR PRELIMINARY	25.03.25	A
AMENDMENTS	DATE	ISSUE

ARCHITECT
PACEARCHITECTS



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-EW550



Costin Roe Consulting Pty Ltd.
ABN 50 003 696 446

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Level 4, 8 Windmill Street, Millers Point NSW 2000
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e: mail@costinroe.com.au w: costinroe.com.au

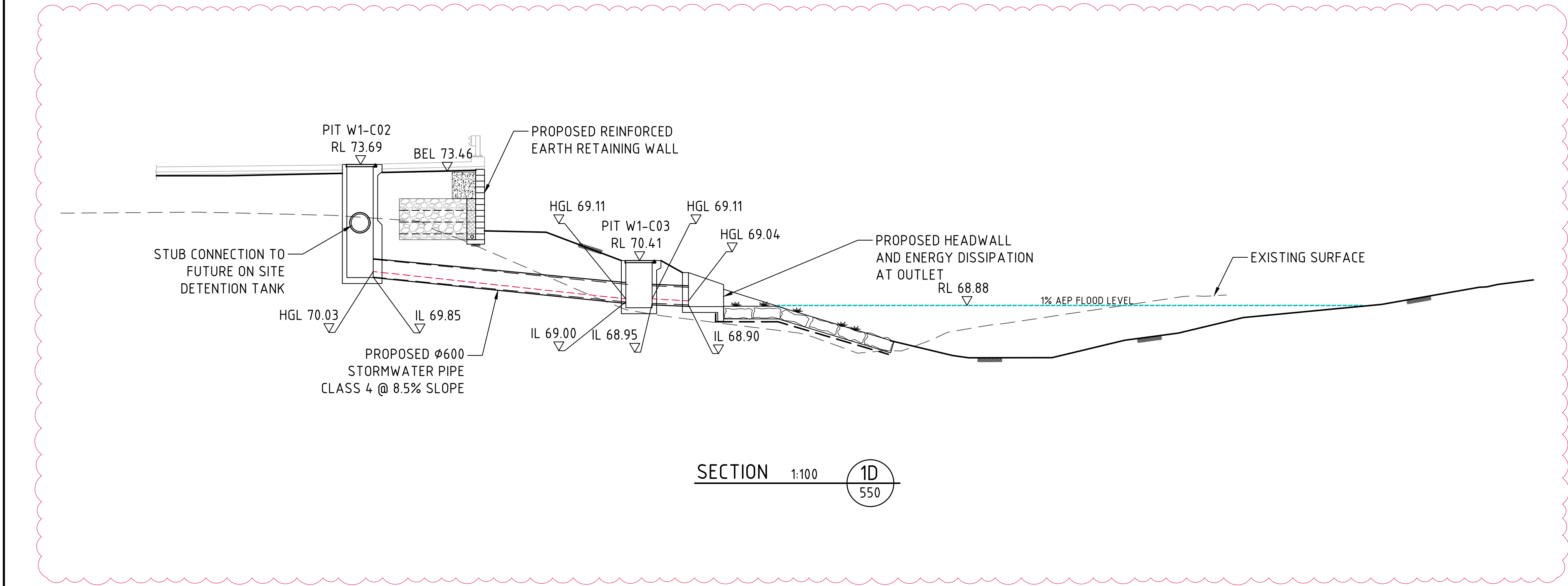
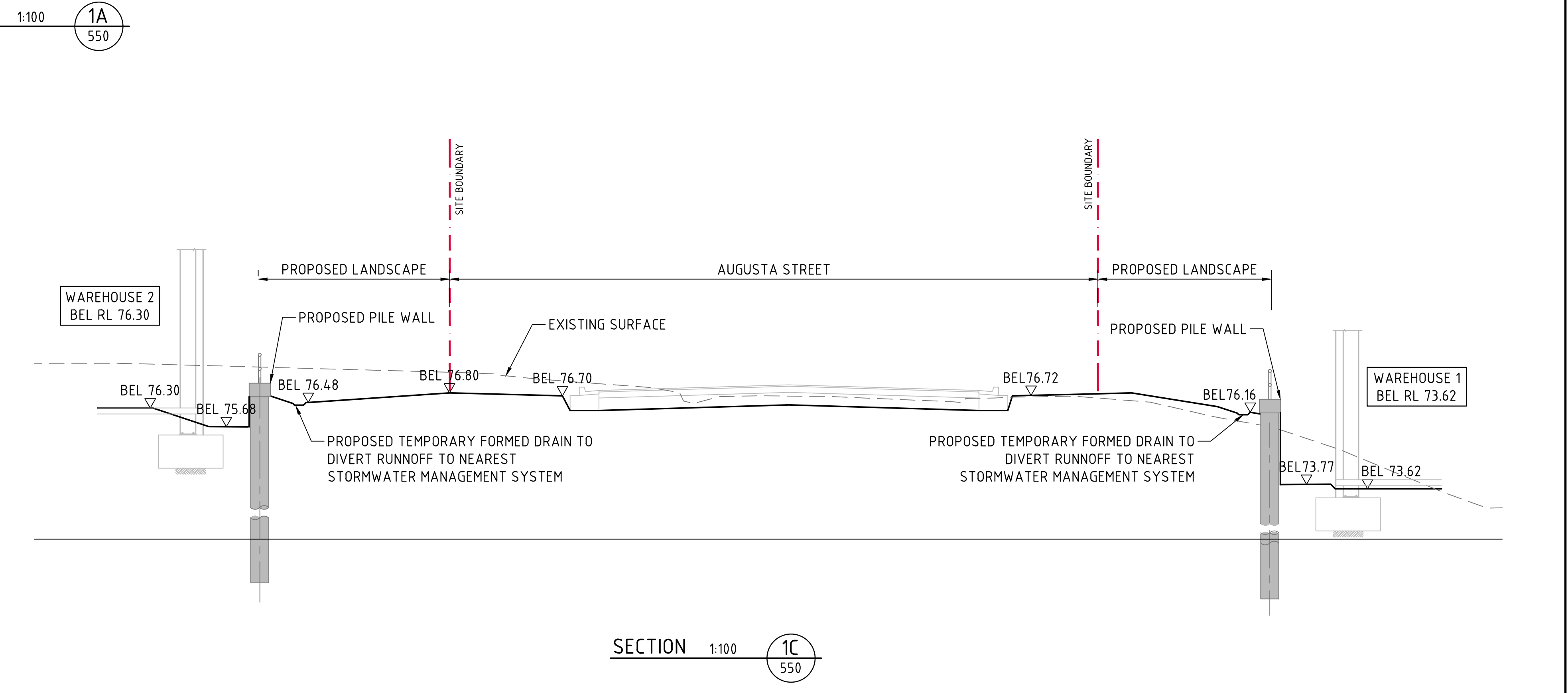
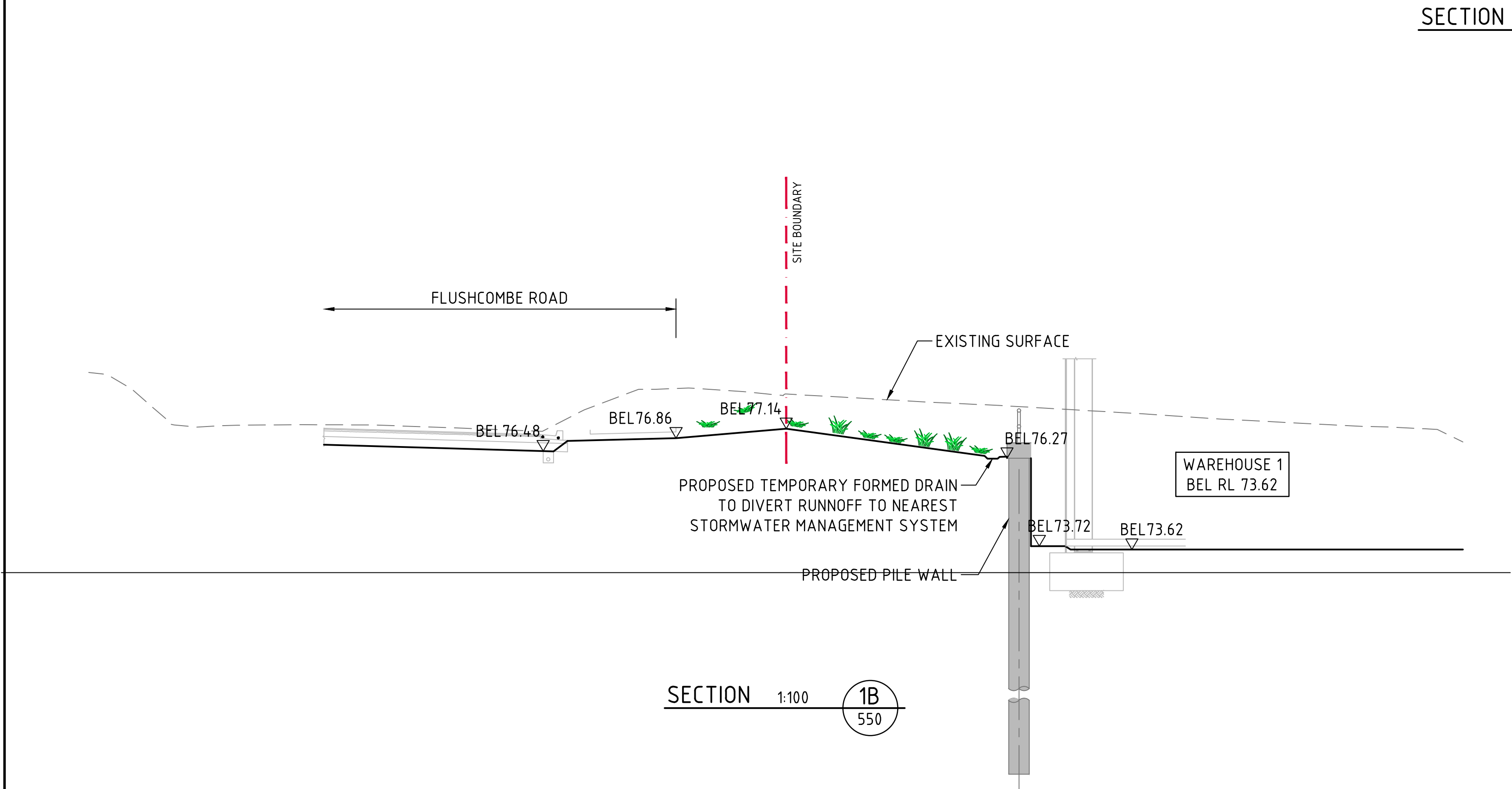
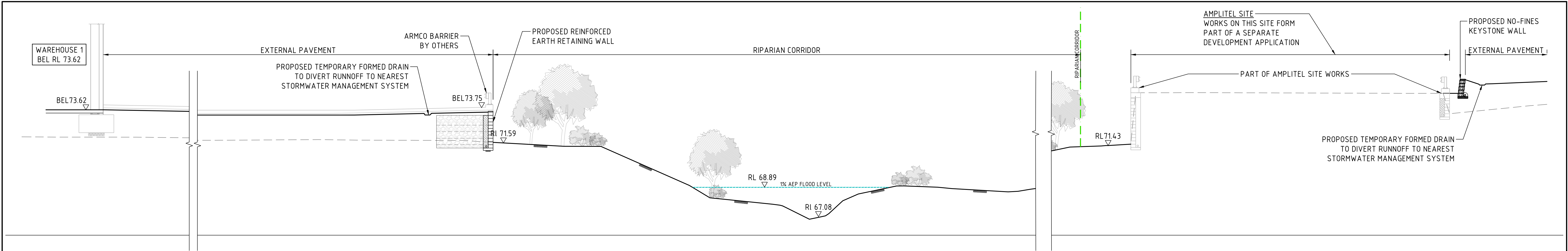


CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
KEY SECTIONS PLAN

DRAWING No.
C013904.07-EW550

ISSUE
4



Compliance Certificate

Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

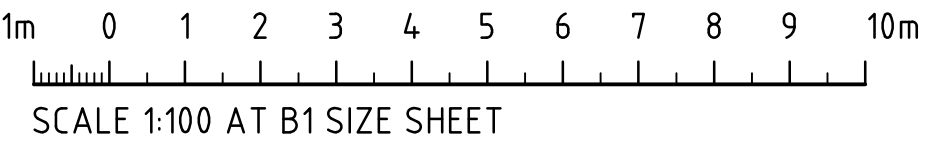
These plans/specifications form part of the certificate issued: 3/12/2025

BARKER RYAN STEWART

This Design Compliance Certificate only relates to the items listed below.

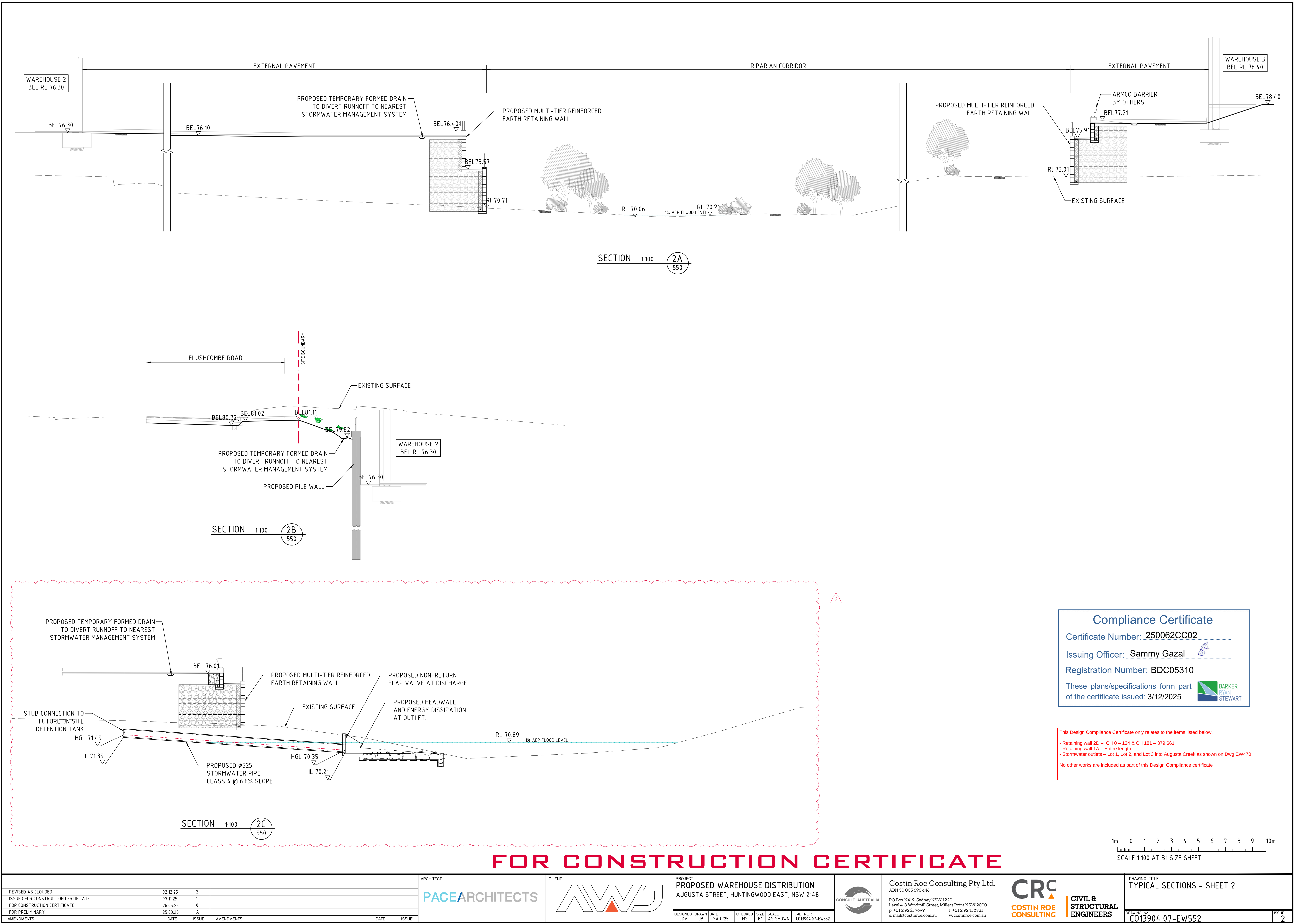
- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
- Retaining wall 1A - Entire length
- Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470

No other works are included as part of this Design Compliance certificate



FOR CONSTRUCTION CERTIFICATE

			ARCHITECT			CLIENT			PROJECT			CONSULT AUSTRALIA			Costin Roe Consulting Pty Ltd. ABN 50 003 696 446			CRC COSTIN ROE CONSULTING			CIVIL & STRUCTURAL ENGINEERS			DRAWING TITLE TYPICAL SECTIONS - SHEET 1		
REVISED AS CLOUDED 02.12.25 2			PACEARCHITECTS						PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148						PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 e: mail@costinroe.com.au			f: +61 2 9241 3731 w: costinroe.com.au								
ISSUED FOR CONSTRUCTION CERTIFICATE 07.11.25 1																										
ISSUED FOR CONSTRUCTION CERTIFICATE 26.05.25 0																										
FOR CONSTRUCTION CERTIFICATE 25.09.25 A																										
AMENDMENTS			DATE			ISSUE			AMENDMENTS			DATE			ISSUE			DRAWING No. C013904.07-EW551			ISSUE 2					



Compliance Certificate

Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

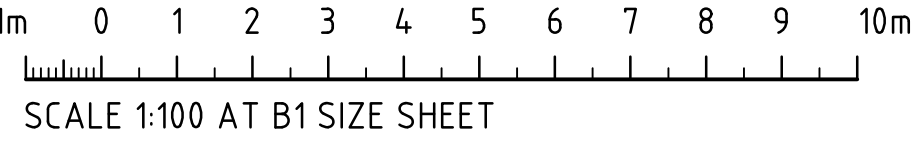
Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 3/12/2025

This Design Compliance Certificate only relates to the items listed below.

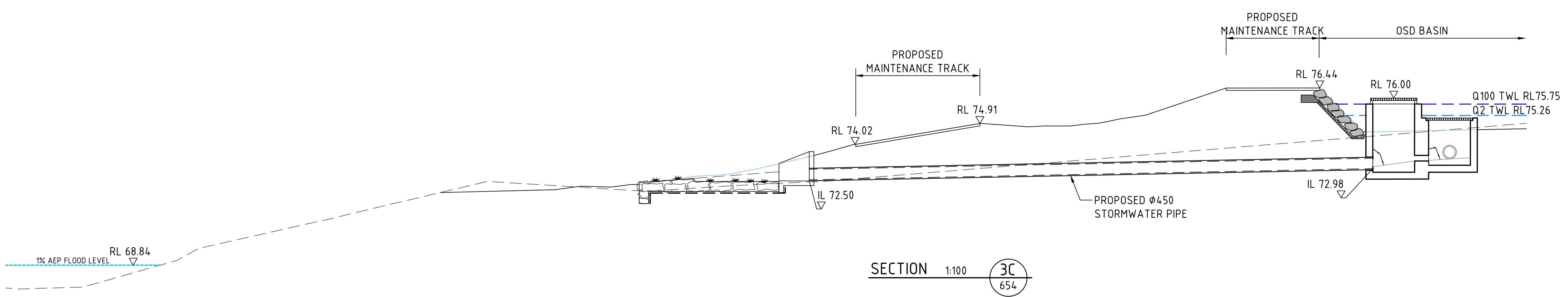
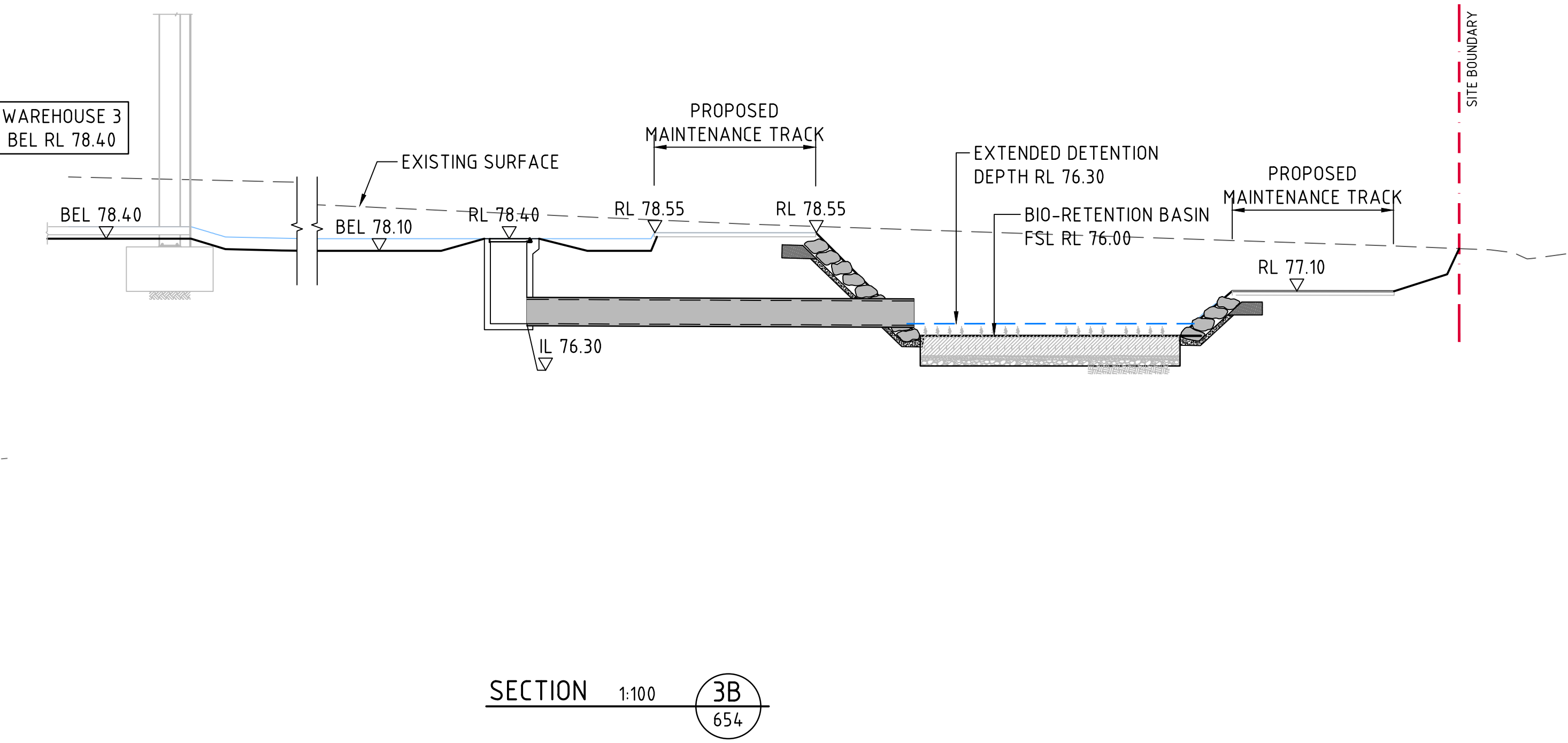
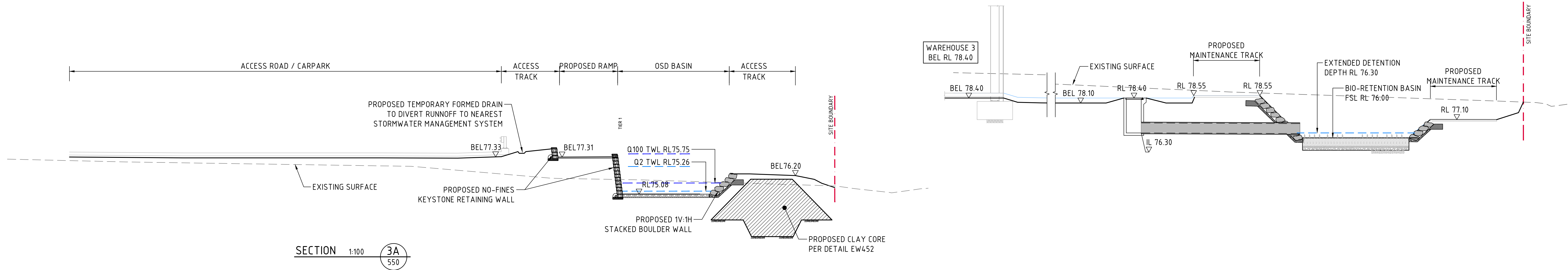
- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
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No other works are included as part of this Design Compliance certificate



FOR CONSTRUCTION CERTIFICATE

REVISED AS CLOUDED			02.12.25	2	ARCHITECT			CLIENT			PROJECT			Costin Roe Consulting Pty Ltd.			DRAWING TITLE		
ISSUED FOR CONSTRUCTION CERTIFICATE			07.11.25	1	PACearchitects			AWD			PROPOSED WAREHOUSE DISTRIBUTION			Level 4, 8 Windmill Street, Millers Point NSW 2000			TYPICAL SECTIONS - SHEET 2		
FOR CONSTRUCTION CERTIFICATE			26.05.25	0							AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148			p: +61 2 9251 7699					
FOR PRELIMINARY			25.03.25	A										e: mail@costinroe.com.au					
AMENDMENTS			DATE	ISSUE	AMENDMENTS			DATE	ISSUE	DESIGNED			CHECKED	SIZE	SCALE	CAD REF:	DRAWING No.		
										LDV			MS	B1	AS SHOWN	C013904.07-EW552	C013904.07-EW552		
										JB							ISSUE		
										MAR '25							2		



Compliance Certificate

Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

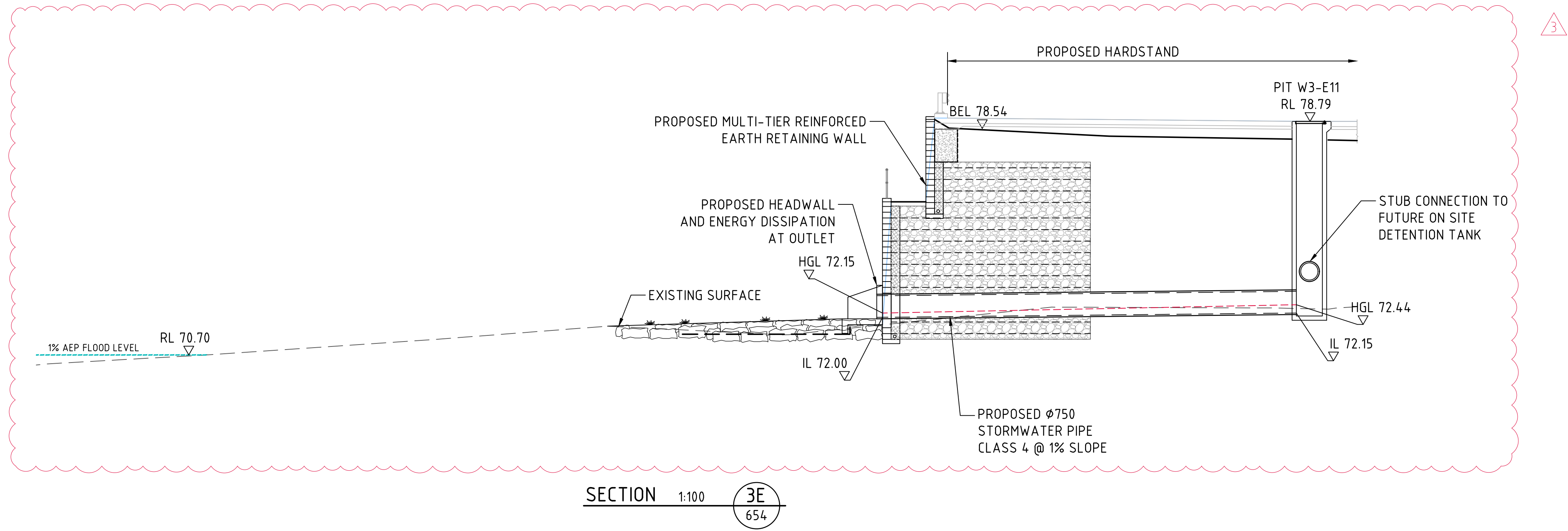
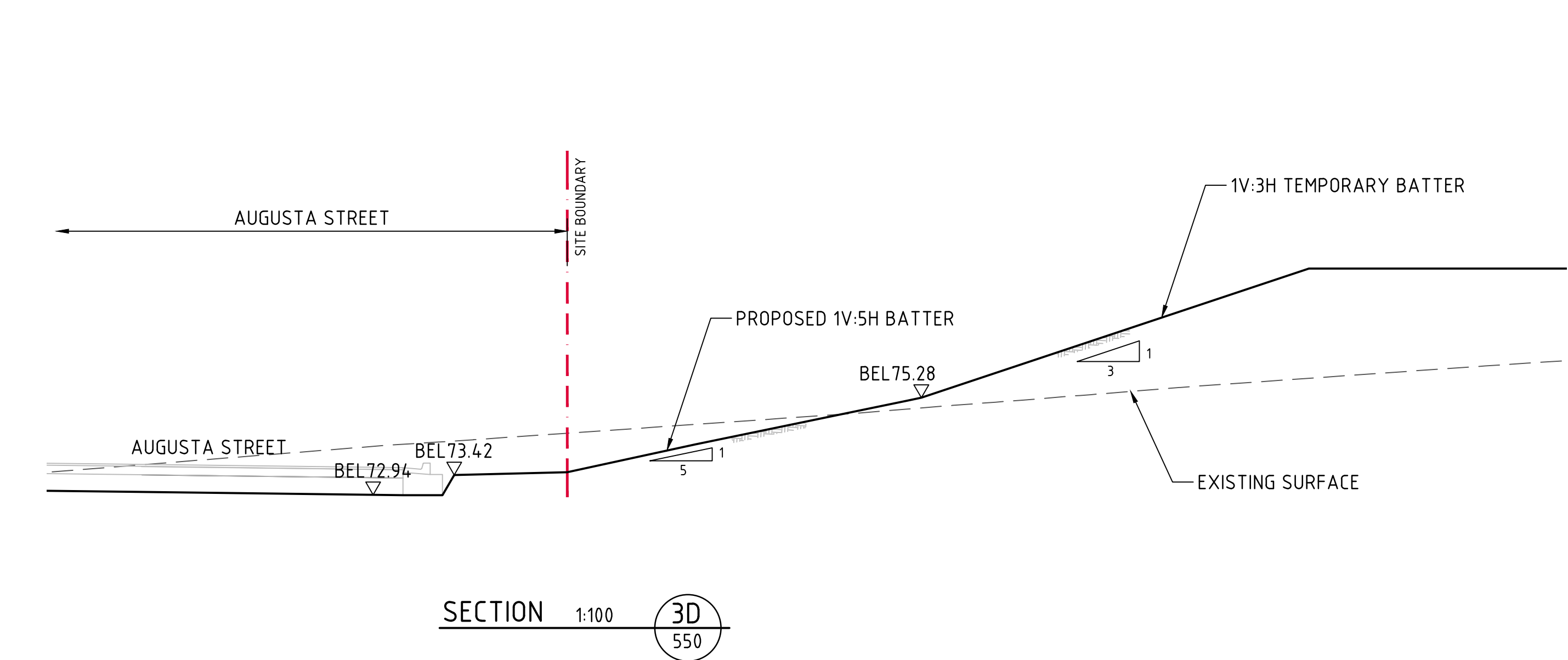
Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 3/12/2025

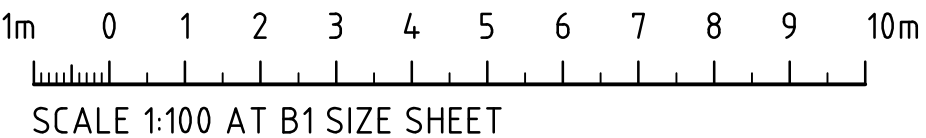
This Design Compliance Certificate only relates to the items listed below.

- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
- Retaining wall 1A - Entire length
- Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470

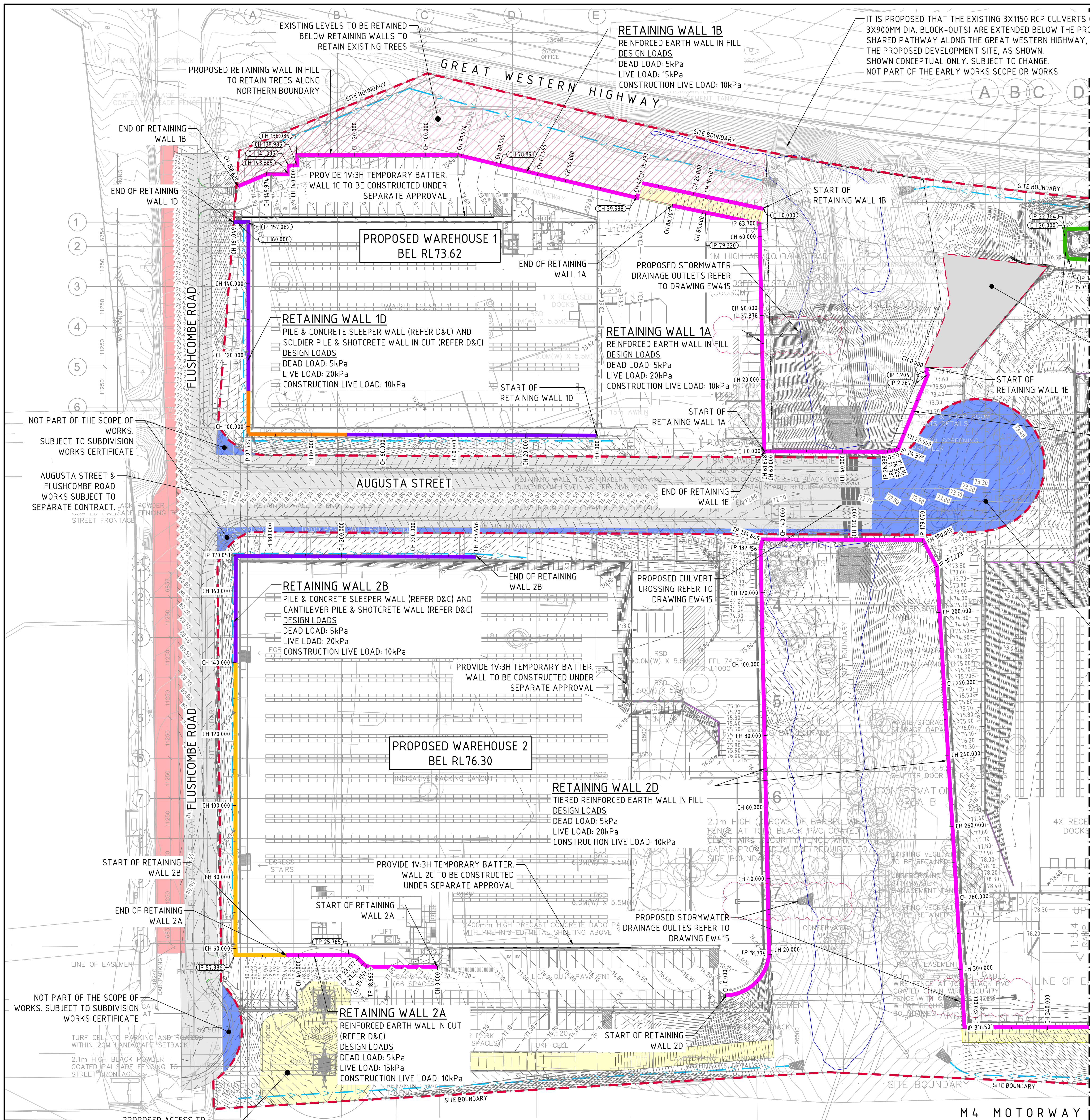
No other works are included as part of this Design Compliance certificate



FOR CONSTRUCTION CERTIFICATE



REVISED AS CLOUDED			02.12.25			3			ARCHITECT			CLIENT			PROJECT			Costin Roe Consulting Pty Ltd.			DRAWING TITLE		
ISSUED FOR CONSTRUCTION CERTIFICATE			10.11.25			2			PACearchitects			AWD			PROPOSED WAREHOUSE DISTRIBUTION			ABN 50 003 696 446			TYPICAL SECTIONS - SHEET 3		
ISSUED FOR CONSTRUCTION CERTIFICATE			07.11.25			1									AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148			PO Box N419 Sydney NSW 1220					
FOR CONSTRUCTION CERTIFICATE			26.05.25			0												Level 4, 8 Windmill Street, Millers Point NSW 2000					
FOR PRELIMINARY			25.03.25			A												p: +61 2 9251 7699					
AMENDMENTS			DATE			ISSUE												e: mail@costinroe.com.au			DRAWING No.		
																		w: costinroe.com.au			C013904.07-EW553		
																					C013904.07-EW553		
																					3		



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
- - - - - SITE BOUNDARY
- - - - - PROPOSED ASPHALT PAVEMENT
- - - - - ROADWORKS BY OTHERS

NOTE:

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

This Design Compliance Certificate only relates to the items listed below.

- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
- Retaining wall 1A - Entire length
- Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470

No other works are included as part of this Design Compliance certificate

Compliance Certificate

Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 3/12/2025

BARKER STEWART

FOR CONSTRUCTION CERTIFICATE

ISSUED FOR CONSTRUCTION CERTIFICATE 07.11.25 4

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

ARCHITECT **PACEARCHITECTS**

CLIENT **AWJ**

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

DESIGNED LDV
DRAWN JB
DATE MAR '25

CHECKED MS
SIZE B1
SCALE AS SHOWN

CAD REF: C013904.07-EW601

Costin Roe Consulting Pty Ltd.
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CRC
COSTIN ROE CONSULTING

CIVIL & STRUCTURAL ENGINEERS

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

DRAWING No **C013904.07-EW601**

ISSUE **5**

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.

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

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

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

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

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

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

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

PROPOSED WAREHOUSE 3
BEL RL78.40

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
- PROPOSED NO-FINES KEYSTONE WALL
- PROPOSED REINFORCED EARTH WALL
- PROPOSED BOULDER WALL
- SITE BOUNDARY
- PROPOSED ASPHALT PAVEMENT
- ROADWORKS BY OTHERS

NOTE:

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

This Design Compliance Certificate only relates to the items listed below.

- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
 - Retaining wall 1A - Entire length
 - Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470
- No other works are included as part of this Design Compliance certificate

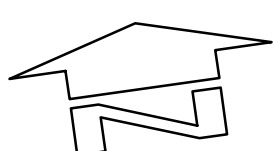
Compliance Certificate

Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 3/12/2025



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

FOR CONSTRUCTION CERTIFICATE

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

ISSUED FOR CONSTRUCTION CERTIFICATE	07.11.25	4		
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	AMENDMENTS	DATE

ARCHITECT
PACEARCHITECTS

CLIENT
AWJ

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

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

CONSULT AUSTRALIA

Costin Roe Consulting Pty Ltd.

ABN 50 003 696 446

PO Box N419 Sydney NSW 1220
Level 4, 8 Windmill Street, Millers Point NSW 2000
p: +61 2 9241 3731
e: mail@costinroe.com.au
w: costinroe.com.au

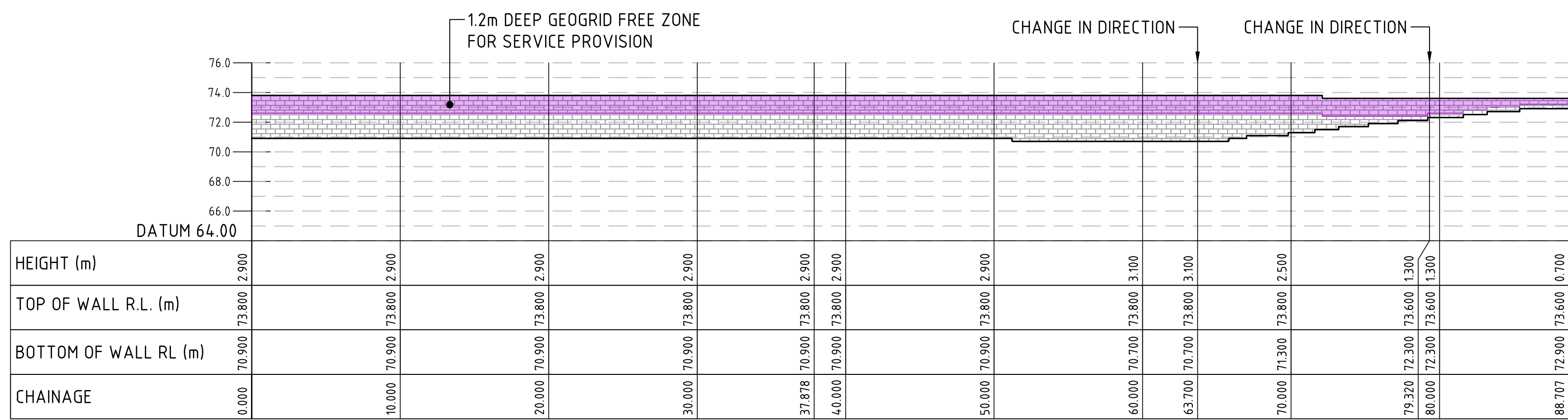
CRC
COSTIN ROE CONSULTING

CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
RETAINING WALL PLAN - WAREHOUSE 3 & WESTERN SWALE

DRAWING No.
C013904.07-EW602

ISSUE
5



RETAINING WALL 1A ELEVATION

SCALE 1:250

WALL SURFACE AREA = 235m²

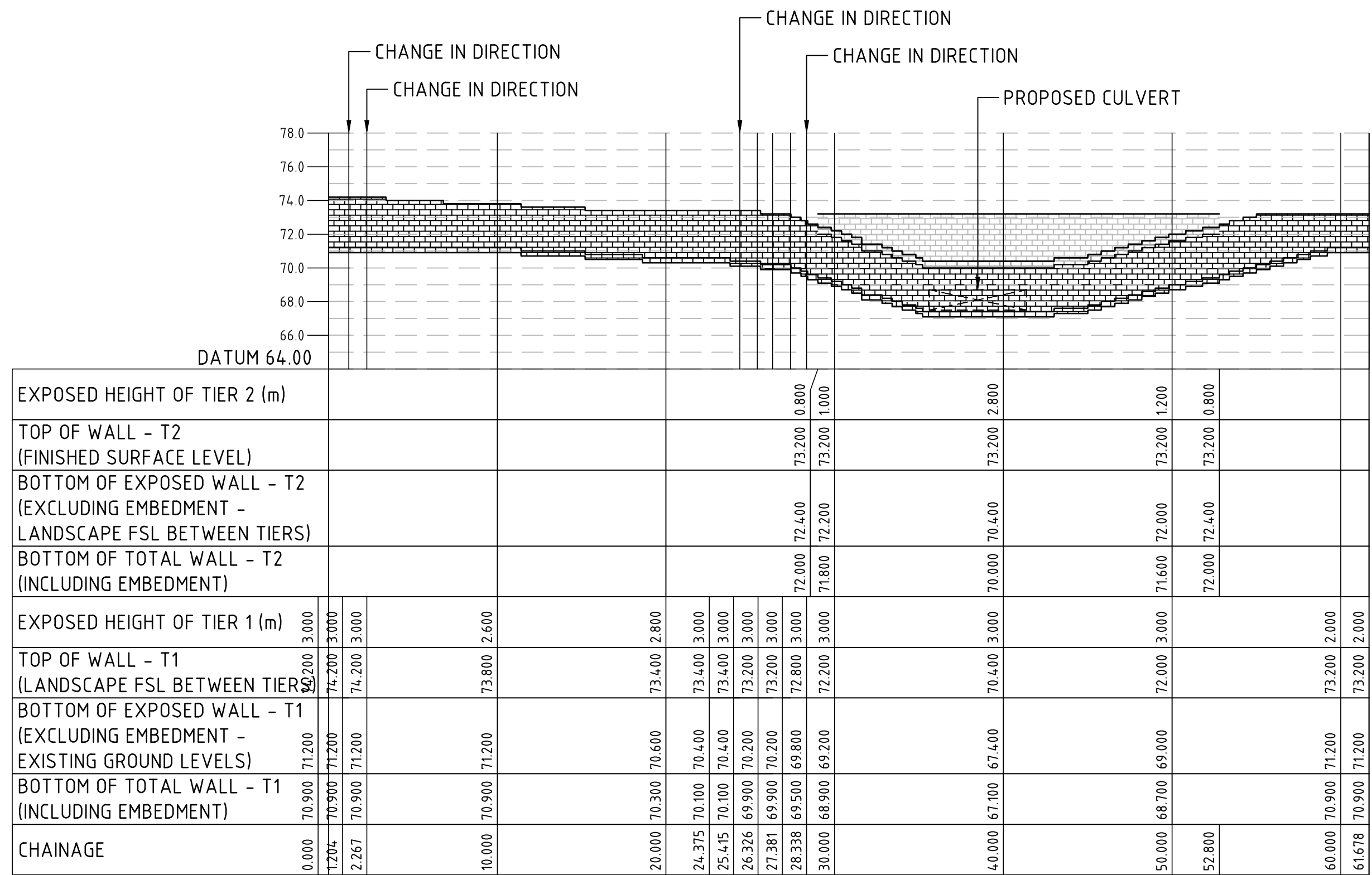
WALL TYPE: REINFORCED EARTH WALL

DESIGN LOADS

DEAD LOAD 5kPa

LIVE LOAD 20kPa

CONSTRUCTION LIVE LOAD 10kPa



RETAINING WALL 1E ELEVATION

SCALE 1:250

WALL SURFACE AREA = TIER 1: 195m²

TIER 2: 60m²

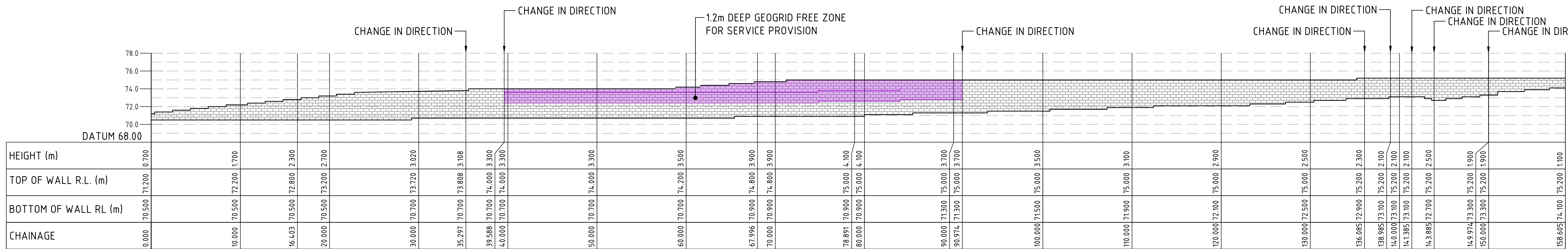
WALL TYPE: TIERED REINFORCED EARTH WALL

DESIGN LOADS

DEAD LOAD 5kPa

LIVE LOAD 20kPa

CONSTRUCTION LIVE LOAD 10kPa



RETAINING WALL 1B ELEVATION

SCALE 1:250

WALL SURFACE AREA = 400m²

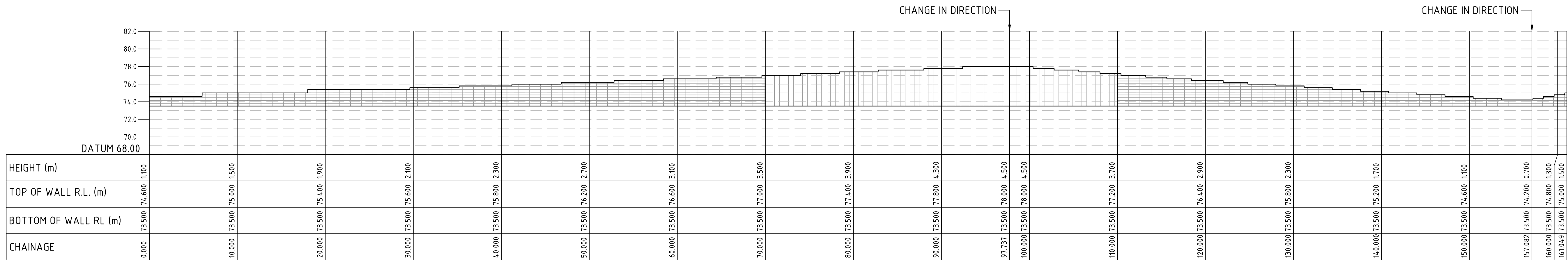
WALL TYPE: REINFORCED EARTH WALL

DESIGN LOADS

DEAD LOAD 5kPa

LIVE LOAD 15kPa

CONSTRUCTION LIVE LOAD 10kPa



RETAINING WALL 1D ELEVATION

SCALE 1:250

WALL SURFACE AREA = PILE & CONCRETE SLEEPER WALL = 260m²

SOLDIER PILE & SHOTCRETE WALL = 165m²

WALL TYPE: PILE & CONCRETE SLEEPER WALL (0.00 TO 70.00) & (110.00 TO 161.05)

SOLDIER PILE & SHOTCRETE WALL (70.00 TO 110.00)

DESIGN LOADS (PILE & CONCRETE SLEEPER WALL)

DEAD LOAD 5kPa

LIVE LOAD 20kPa

CONSTRUCTION LIVE LOAD 10kPa

DESIGN LOADS (SOLDIER PILE & WALL)

DEAD LOAD 5kPa

LIVE LOAD 20kPa

CONSTRUCTION LIVE LOAD 10kPa

Compliance Certificate

Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part of the certificate issued: 3/12/2025



This Design Compliance Certificate only relates to the items listed below.

- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
- Retaining wall 1A - Entire length
- Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470

No other works are included as part of this Design Compliance certificate

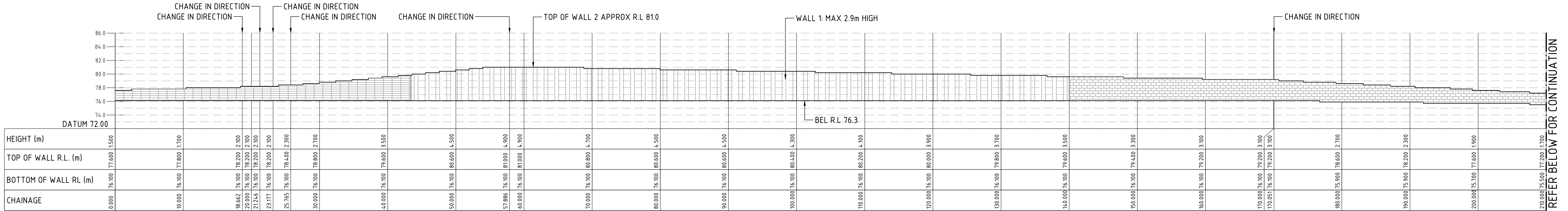
NOTES:

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.

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

FOR CONSTRUCTION CERTIFICATE

						ARCHITECT			CLIENT			PROJECT			CONSULT AUSTRALIA Costin Roe Consulting Pty Ltd. ABN 50 003 696 446 PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9261 241 3731 e: mail@costinroe.com.au w: costinroe.com.au			DRAWING TITLE											
ISSUED FOR CONSTRUCTION CERTIFICATE			11.09.25			2			PACearchitects			PROPOSED WAREHOUSE DISTRIBUTION						RETAINING WALL ELEVATIONS SHEET 1											
REVISED AS CLOUDED			05.09.25			1			AWJ			AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148																	
FOR CONSTRUCTION CERTIFICATE			23.05.25			0																							
FOR PRELIMINARY			25.03.25			A																							
AMENDMENTS			DATE			ISSUE			AMENDMENTS			DATE			ISSUE			DRAWING NO			C013904.07-EW611			ISSUE			2		



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

Compliance Certificate
Certificate Number: 250062CC02
Issuing Officer: Sammy Gazal
Registration Number: BDC05310
These plans/specifications form part of the certificate issued: 3/12/2025

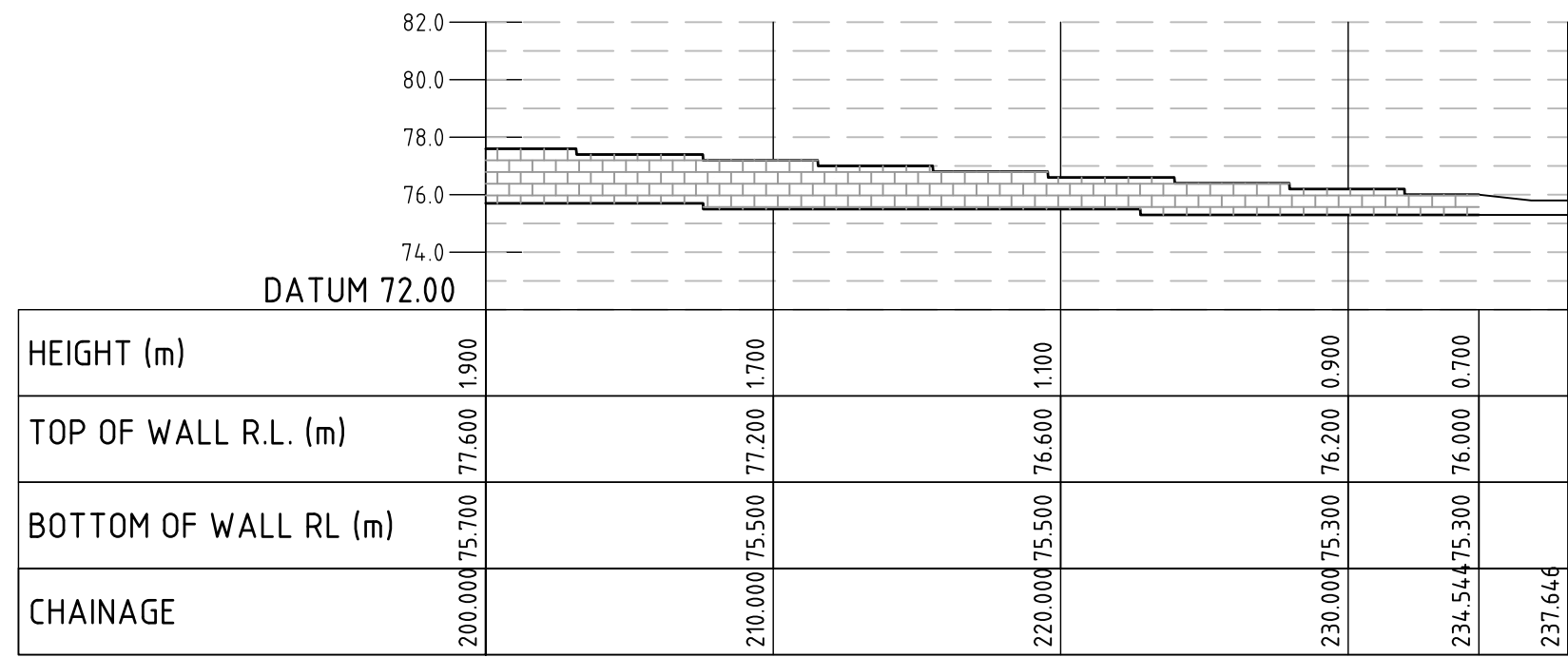
BARKER RYAN STEWART

This Design Compliance Certificate only relates to the items listed below.

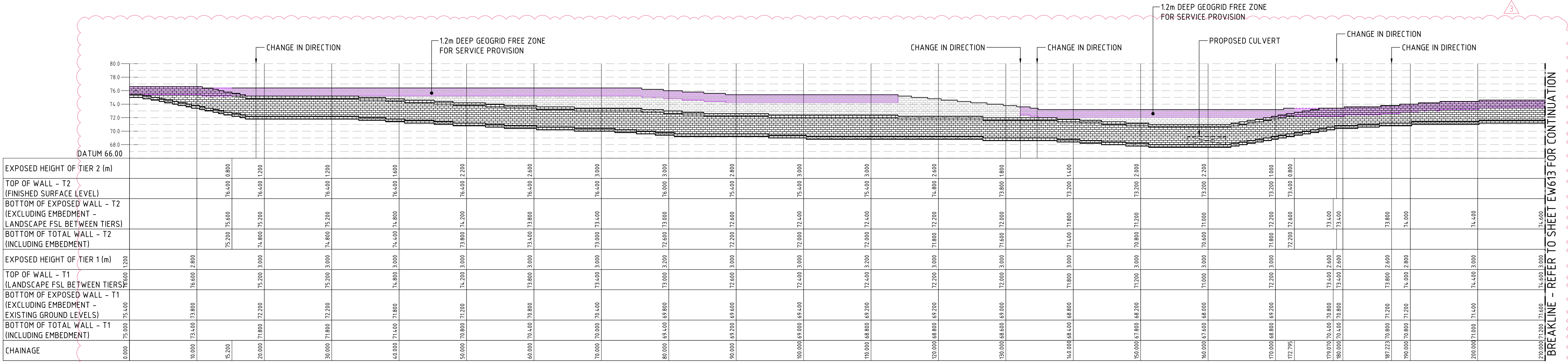
- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
- Retaining wall 1A - Entire length
- Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470

No other works are included as part of this Design Compliance certificate

- 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.



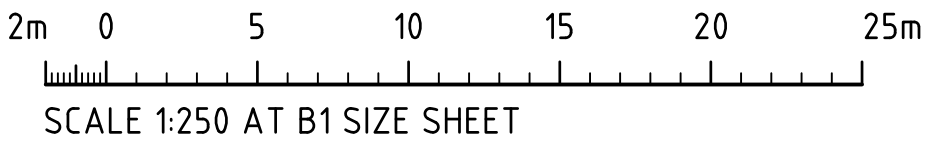
RETAINING WALL 2A&B ELEVATION - CONTINUATION



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

FOR CONSTRUCTION CERTIFICATE





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



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



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

Certificate Number: 250062CC02

Issuing Officer: Sammy Gaza

Registration Number: BDC05310

These plans/specifications form part
of the certificate issued: 3/12/2025



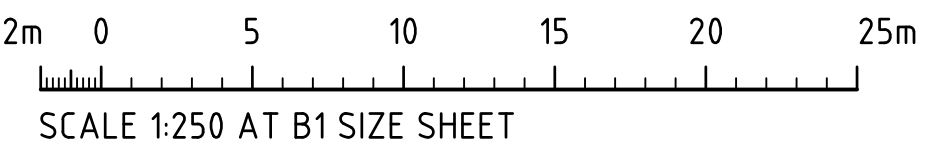
This Design Compliance Certificate only relates to the items listed below.

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- Retaining wall 1A – Entire length
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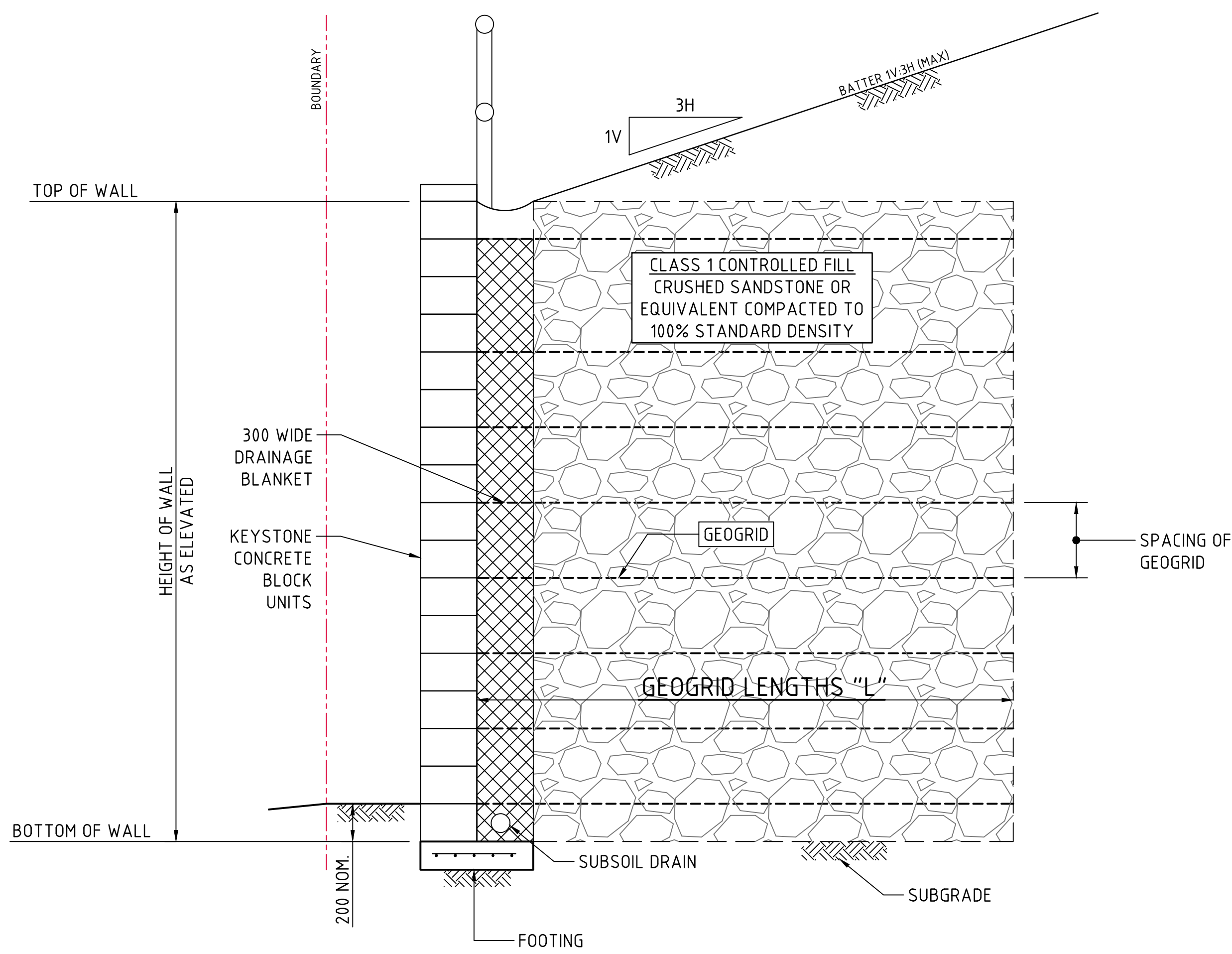
NOTES:

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FOR CONSTRUCTION CERTIFICATE

REVISED AS CLOUDED17.09.253 ISSUED FOR CONSTRUCTION CERTIFICATE11.09.252 REVISED AS CLOUDED05.09.251 FOR CONSTRUCTION CERTIFICATE23.05.250 FOR PRELIMINARY25.03.25A			AMENDMENTS DATEISSUE			ARCHITECT PACEARCHITECTS			CLIENT AWJ			PROJECT PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148			CONSULT AUSTRALIA 			COSTIN ROE CONSULTING PTY LTD. ABN 50 003 696 446 PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3731 e: mail@costinroe.com.au w: costinroe.com.au			CRC COSTIN ROE CONSULTING CIVIL & STRUCTURAL ENGINEERS			DRAWING TITLE RETAINING WALL ELEVATIONS - SHEET 3											
AMENDMENTS DATEISSUE			AMENDMENTS DATEISSUE						DESIGNED LDV			DRAWN JB			DATE MAR '25			CHECKED MS			SIZE B1			SCALE AS SHOWN			CAD REF: C013904.07-EW613			DRAWING No C013904.07-EW613			ISSUE 3		



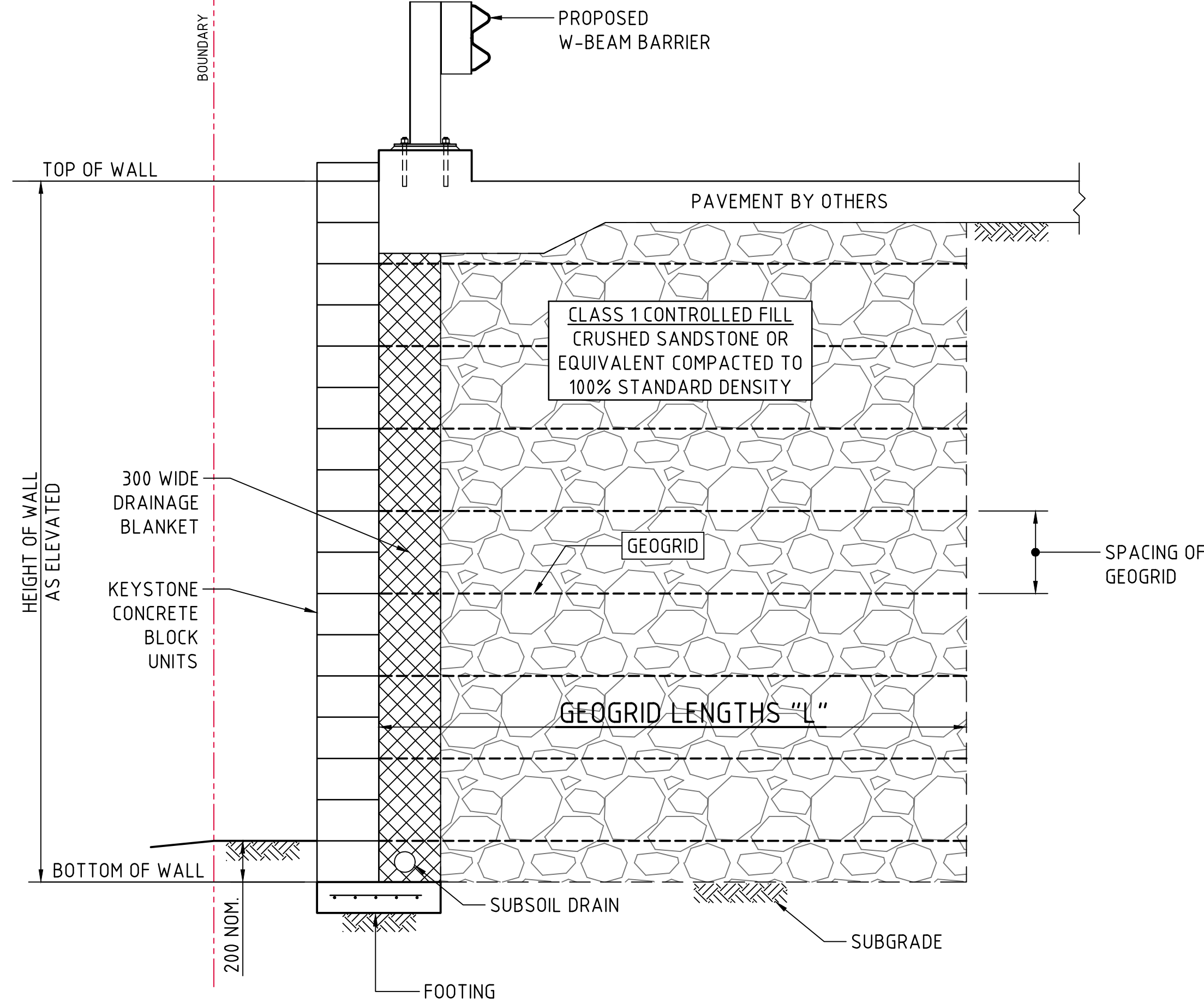
RETAINING WALL TYPE 1 - TYPICAL
(REINFORCED EARTH WALL)

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.



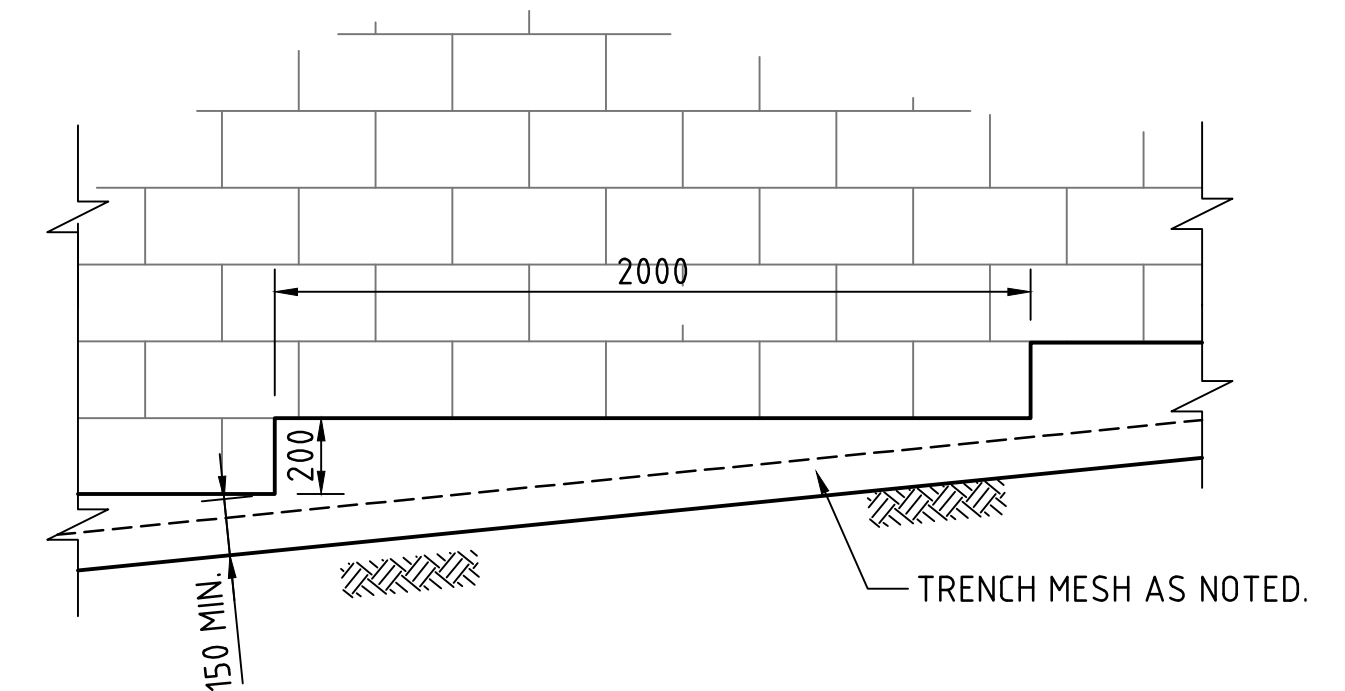
RETAINING WALL TYPE 2 - TYPICAL
(REINFORCED EARTH WALL)

SCALE 1:20

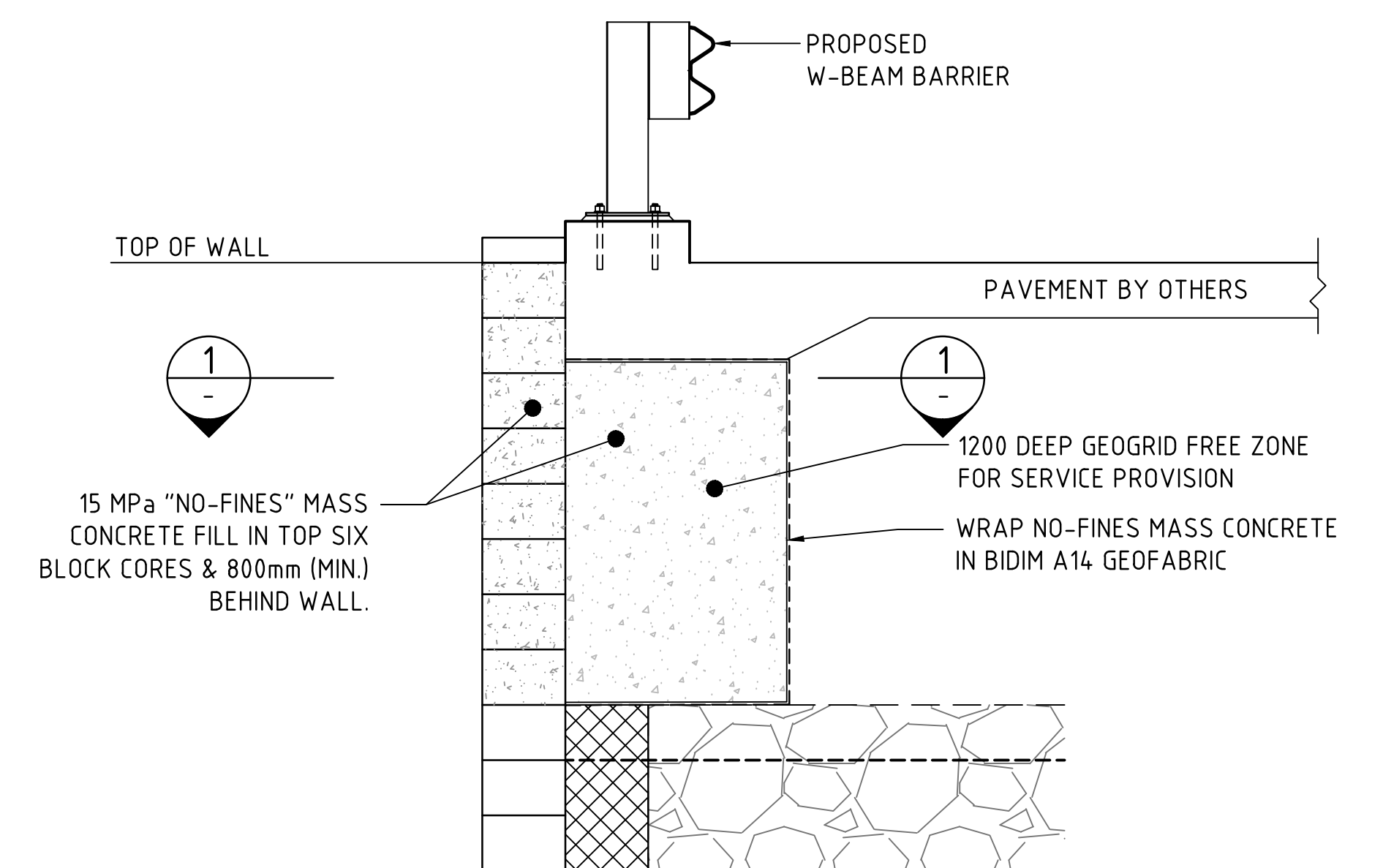
ALL RETAINING WALLS DOCUMENTED DESIGNED BY
D&C CONTRACTOR ERL/CIRTEX WITH DESIGN
DOCUMENTS REFERENCED UNDER PROJECT 20584-6400

NOTE :

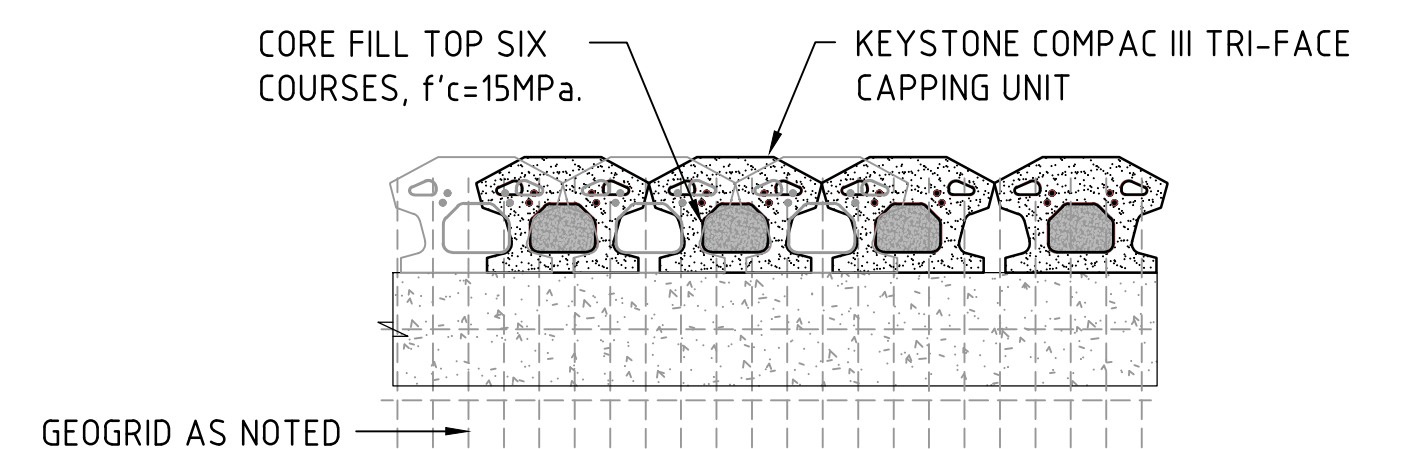
INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN
TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.



REINFORCED EARTH WALL TYPICAL LEVELING STRIP STEP DETAIL
SCALE 1:20



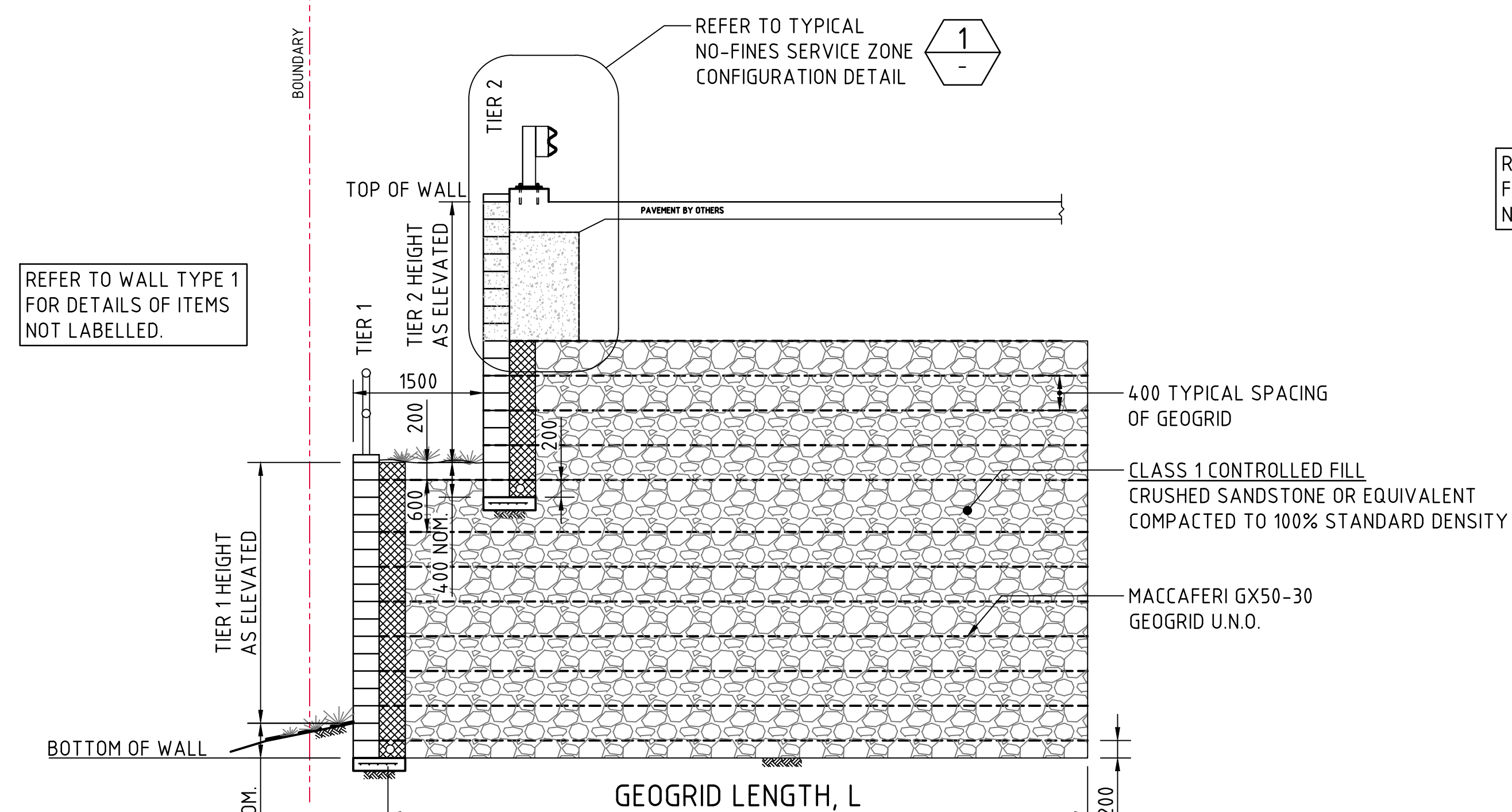
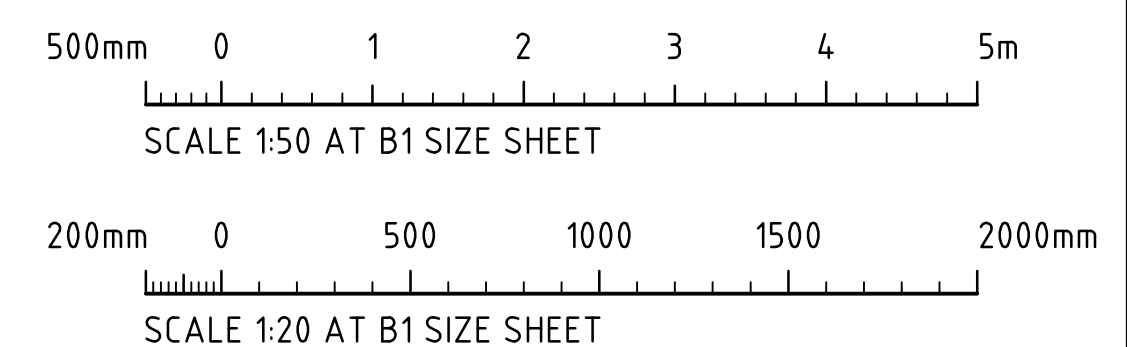
DETAIL 1:20
TYPICAL NO-FINES SERVICE
ZONE CONFIGURATION



SECTION 1:20

NOTE:

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



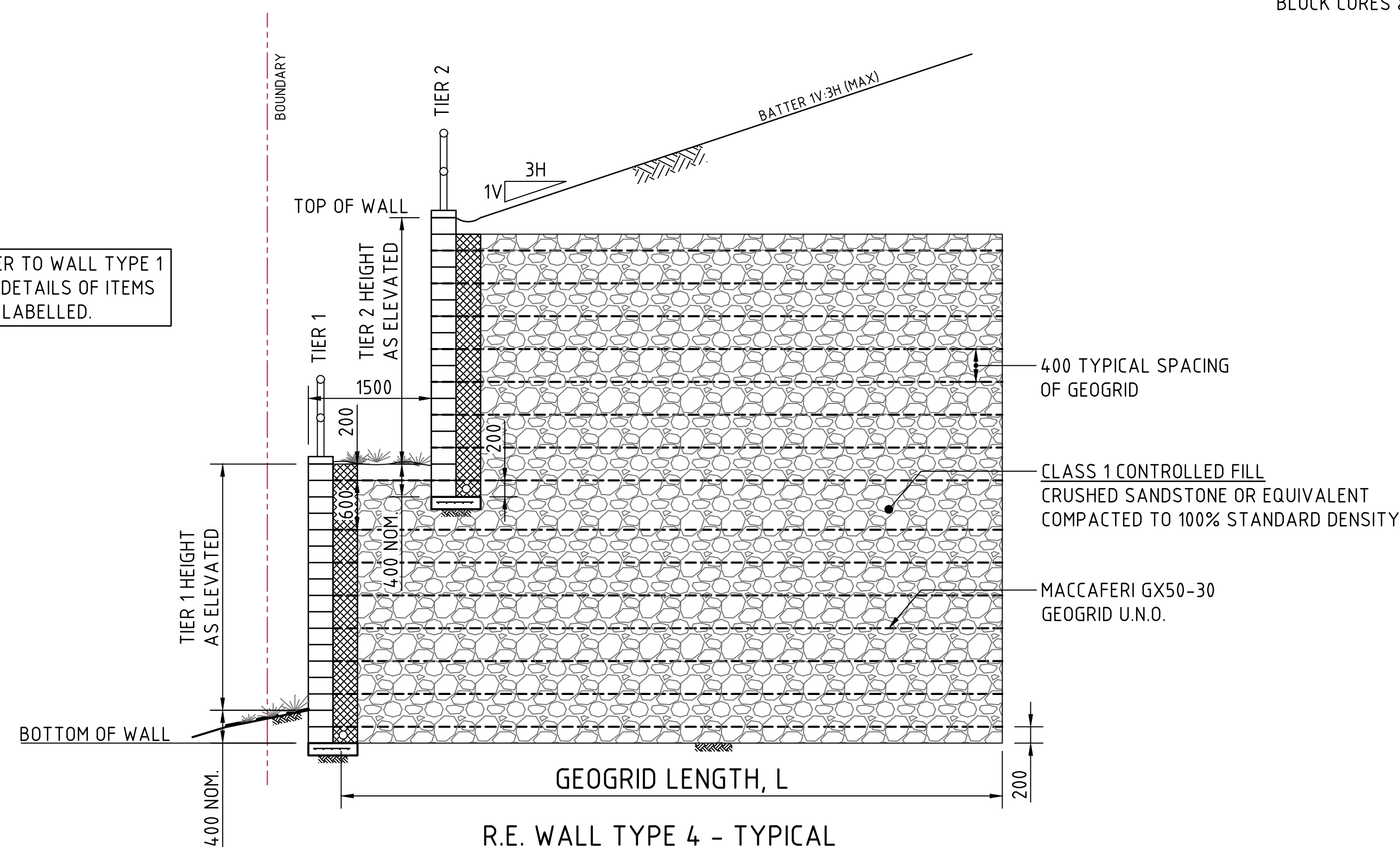
R.E. WALL TYPE 3 - TYPICAL
(TIERED RETAINING WALLS)

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.

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- Retaining wall 2D - CH 0 - 134 & CH 181 - 379.661
- Retaining wall 1A - Entire length
- Stormwater outlets - Lot 1, Lot 2, and Lot 3 into Augusta Creek as shown on Dwg EW470

No other works are included as part of this Design Compliance certificate

Compliance Certificate

Certificate Number: 250062CC02

Issuing Officer: Sammy Gazal

Registration Number: BDC05310

These plans/specifications form part
of the certificate issued: 3/12/2025



FOR CONSTRUCTION CERTIFICATE

ISSUED FOR CONSTRUCTION CERTIFICATE	07.11.25	4			
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	AMENDMENTS	DATE	ISSUE

ARCHITECT
PACEARCHITECTS

CLIENT
AWD

PROJECT PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148	DESIGNED LDV	DRAWN JB	DATE MAR '25	CHECKED MS	SIZE B1	SCALE AS SHOWN	CAD REF: C013904.07-EW650
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CONSULT AUSTRALIA

Costin Roe Consulting Pty Ltd.
ABN 50 003 696 446
PO Box N419 Sydney NSW 1220
Level 4, 8 Windmill Street, Millers Point NSW 2000
p: +61 2 9251 7699 f: +61 2 9241 3731
e: mail@costinroe.com.au w: costinroe.com.au

CRC
COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE RETAINING WALL DETAILS - SHEET 1	DRAWING No. C013904.07-EW650	ISSUE 4
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NOTE :
INDICATIVE REINFORCEMENT LENGTHS SHOWN. DESIGN
TO BE CONFIRMED / PROVIDED BY D+C CONTRACTOR.



BOULDER RETAINING WALL NOTES

MINIMUM BEARING CAPACITY OF FOUNDATION TO BE 100kPa ASSUMING THE FOLLOWING:

- CLAY FOUNDATION $C_u=50kPa$, $\phi=0$

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/m³

FOR WALLS ABOVE 1000mm IN HEIGHT, THE FIRST LAYER OF BOULDERS ARE TO SET IN A BED OF M15 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 $SBV \geq 150kPa$

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

CONSTRUCTION TO BE IN ACCORDANCE WITH AS 4678:2002

This Design Compliance Certificate only relates to the items listed below.

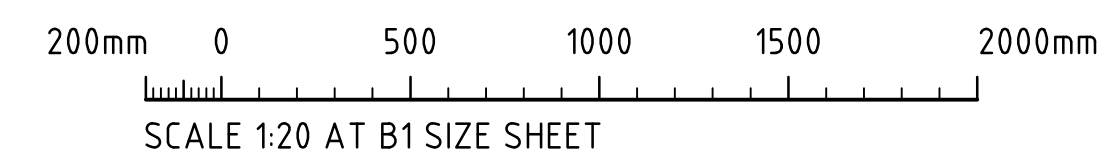
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NOTE:

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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.

Compliance Certificate	
Certificate Number:	250062CC02
Issuing Officer:	Sammy Gazal 
Registration Number:	BDC05310
These plans/specifications form part of the certificate issued: 3/12/2025	
	



FOR CONSTRUCTION CERTIFICATE

			ARCHITECT		CLIENT		PROJECT				Costin Roe Consulting Pty Ltd. ABN 50 003 696 446				DRAWING TITLE RETAINING WALL DETAILS SHEET 2			
ISSUED FOR CONSTRUCTION CERTIFICATE 10.09.25 2							PROPOSED WAREHOUSE DISTRIBUTION AUGUSTA STREET, HUNTINGWOOD EAST, NSW 2148				PO Box N419 Sydney NSW 1220 Level 4, 8 Windmill Street, Millers Point NSW 2000 p: +61 2 9251 7699 f: +61 2 9241 3731 e: mail@costinroe.com.au w: costinroe.com.au		CRC CIVIL & STRUCTURAL ENGINEERS		DRAWING NO C013904.07-EW651		ISSUE 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			AMENDMENTS DATE ISSUE															