

DEVELOPMENT APPLICATION

135 BADGERYS CREEK ROAD, BRADFIELD

CIVIL ENGINEERING SERVICES



LOCALITY PLAN
SOURCE: [SIX MAPS] - 25.09.2025
NOT TO SCALE

DRAWING SCHEDULE	
DRAWING NO.	DRAWING NAME
CE000	COVER SHEET
CE100	GENERAL ARRANGEMENT PLAN
CE150	ROAD LONG SECTIONS
CE200	ROAD TYPICAL SECTIONS
CE250	STORMWATER LONG SECTIONS
CE300	SOIL AND WATER MANAGEMENT PLAN
CE305	SOIL AND WATER MANAGEMENT DETAILS

PRINTING NOTE:
THIS DRAWING TO BE
PRINTED IN COLOUR.

APPROVAL

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Revision</th> <th style="text-align: left;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">B</td> <td>APPROVAL</td> </tr> <tr> <td style="text-align: center;">A</td> <td>APPROVAL</td> </tr> </tbody> </table>	Revision	Description	B	APPROVAL	A	APPROVAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Initial</th> <th style="text-align: left;">Date</th> <th style="text-align: left;">Client</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">KC</td> <td style="text-align: center;">02.10.2025</td> <td>CREATIVE VISION Level 2, 14 Railway Parade Burwood, NSW</td> </tr> <tr> <td style="text-align: center;">AA</td> <td style="text-align: center;">25.09.2025</td> <td>PLUS STUDIO Level 4, 222 CLARENCE STREET, SYDNEY NSW 2000</td> </tr> </tbody> </table>	Initial	Date	Client	KC	02.10.2025	CREATIVE VISION Level 2, 14 Railway Parade Burwood, NSW	AA	25.09.2025	PLUS STUDIO Level 4, 222 CLARENCE STREET, SYDNEY NSW 2000	<div style="text-align: center;"> <p>ADP An ayesa company</p> </div> <div style="text-align: center; font-size: small;"> <p>Inspire a better world through influence and design</p> <p style="font-size: x-small;">This drawing is copyright and the property of ADP Consulting Pty Ltd and must not be used, reproduced or copied wholly or in part without written permission. Do not scale this drawing. All setout information is to be obtained from the architectural documentation. Verify all dimensions on site before commencing any work.</p> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Project</th> <th style="text-align: left;">Drawing Title</th> </tr> </thead> <tbody> <tr> <td>135 BADGERYS CREEK RD BRADFIELD</td> <td><u>CIVIL ENGINEERING SERVICES</u> COVER SHEET</td> </tr> </tbody> </table>	Project	Drawing Title	135 BADGERYS CREEK RD BRADFIELD	<u>CIVIL ENGINEERING SERVICES</u> COVER SHEET	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Drafted</th> <th style="text-align: left;">Designed</th> <th style="text-align: left;">Approved</th> <th style="text-align: left;">Date</th> <th style="text-align: left;">Scale</th> <th style="text-align: left;">Sheet Size</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">AA</td> <td style="text-align: center;">AA</td> <td style="text-align: center;">SS</td> <td style="text-align: center;">OCT 2025</td> <td style="text-align: center;">NTS</td> <td style="text-align: center;">@ A1</td> </tr> <tr> <th style="text-align: left;">Job Number</th> <th style="text-align: left;">Drawing Number</th> <th style="text-align: left;">Revision</th> <th colspan="3" style="text-align: left;">North Point</th> </tr> <tr> <td style="text-align: center;">SYD3120</td> <td style="text-align: center;">CE000</td> <td style="text-align: center;">B</td> <td colspan="3" style="text-align: center;"> </td> </tr> </tbody> </table>	Drafted	Designed	Approved	Date	Scale	Sheet Size	AA	AA	SS	OCT 2025	NTS	@ A1	Job Number	Drawing Number	Revision	North Point			SYD3120	CE000	B			
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LEGEND

- - - - - SITE BOUNDARY
- — — — — OUTLINE OF BASEMENT

CUT/FILL DEPTHS			
NUMBER	MIN. DEPTH	MAX. DEPTH	COLOUR
1	-11.500	-3.000	Dark Red
2	-3.000	-2.500	Red
3	-2.500	-2.000	Red-Orange
4	-2.000	-1.500	Orange
5	-1.500	-1.000	Light Orange
6	-1.000	-0.500	Yellow-Orange
7	-0.500	0.000	Yellow
8	0.000	0.500	Light Green
9	0.500	1.000	Light Green
10	1.000	1.500	Light Green
11	1.500	2.000	Light Green
12	2.000	2.500	Light Green
13	2.500	3.000	Light Green
14	3.000	3.600	Light Green

BULK EARTHWORKS PLAN
SCALE 1:400

NOTE:

THE POSITION OF ALL EXISTING SERVICES SHOWN SHOULD BE REGARDED AS APPROXIMATE ONLY AND NOT NECESSARILY COMPREHENSIVE. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS AND INFORM ALL AUTHORITIES PRIOR TO ANY EXCAVATION

BENCH MARKS TO BE PROVIDED PRIOR TO COMMENCEMENT OF CONSTRUCTION

CONTRACTOR TO VERIFY SETOUT BEFORE COMMENCING EARTHWORKS. REFER ANY DISCREPANCIES TO ENGINEER

BULK EARTHWORKS VOLUME: CALCULATIONS

SITE AREAS
APPROX. EARTHWORKS AREA = 18,478 m²

SITE STRIPPING
150mm OF STRIPPING ASSUMED ACROSS THE EXTENT OF SITE AND IS NOT INCLUDED IN 'GENERAL EARTHWORKS' VOLUMES.

GENERAL EARTHWORKS
APPROX. CUT VOLUME = 111,360 m³
APPROX. FILL VOLUME = 4,912 m³

NOTES

- VOLUME CALCULATIONS ARE BASED ON-
THE FOLLOWING BOX OUT DEPTHS:
- BASEMENT SLAB BOX OUT -150mm
 - GROUND FLOOR SLAB BOX OUT -200mm ~ -300mm
 - LANDSCAPING BOX OUT -800mm
 - CONCRETE FOOTPATH BOX OUT -150mm
 - RIPARIAN CORRIDOR FOOTPATH BOX OUT -350mm
 - CONCRETE SWALE BOX OUT -150mm
 - PROPOSED ROAD PAVEMENT BOX OUT -450mm

SURVEY INFORMATION OBTAINED FROM SDG PTY LTD'S DRAWING TITLED 'DETAIL AND LEVEL SURVEY OF LOT 7 IN DP243457 - 135 BADGERYS CREEK ROAD BRADFIELD', DATED 10/04/2025.

RE-USE OF CUT MATERIAL AS ENGINEERED FILL IS SUBJECT TO GEOTECHNICAL APPROVAL.

VOLUME CALCULATIONS DO NOT TAKE INTO ACCOUNT:
1. ANY EXCAVATION OR COMPACTION BULKING FACTORS
2. DETAILED EXCAVATIONS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERTAKE AN INDEPENDENT VERIFICATION OF THE CALCULATIONS AND MAKE ALLOWANCES FOR THE CUT AND FILL QUANTITIES. ADP HAS MADE NO ASSUMPTIONS AROUND THE SUITABILITY OF REUSING CUT MATERIAL ON-SITE.

CONTRACTOR IS TO PROVIDE RATES PER TONNE (OR PER CUBIC METRE) FOR VARIATIONS TO CALCULATED VOLUMES. CONTRACTOR IS ALSO TO SPECIFY THE BASIS ON WHICH VARIATIONS ARE TO BE CALCULATED (eg. SURVEY, WEIGHBRIDGE DOCKETS, etc).

ALL EXISTING TOPSOIL AND DELETERIOUS MATERIAL IS TO BE STRIPPED PRIOR TO DETAILED EARTHWORKS EXCAVATIONS. EARTHWORKS CALCULATIONS HAVE ASSUMED A CONSISTENT DEPTH OF STRIPPING ACROSS THE SITE, HOWEVER THIS DEPTH MAY VARY TO SUIT CONDITIONS EXCAVATED ON-SITE.

PRINTING NOTE:
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APPROVAL

Revision	Description	Initial	Date	Client	Project	Drawing Title	Drafted	Designed	Approved	Date	Scale	Sheet Size
				CREATIVE VISION Level 2, 14 Railway Parade Burwood, NSW	135 BADGERYS CREEK RD BRADFIELD	CIVIL ENGINEERING SERVICES	AA	AA	SS	OCT 2025	1:400 @ A1	
				Architect PLUS STUDIO Level 4, 222 CLARENCE STREET, SYDNEY NSW 2000		BULK EARTHWORKS PLAN	Job Number	Drawing Number	Revision	North Point		
A	APPROVAL	AA	09.10.2025				SYD3120	CE050	A			

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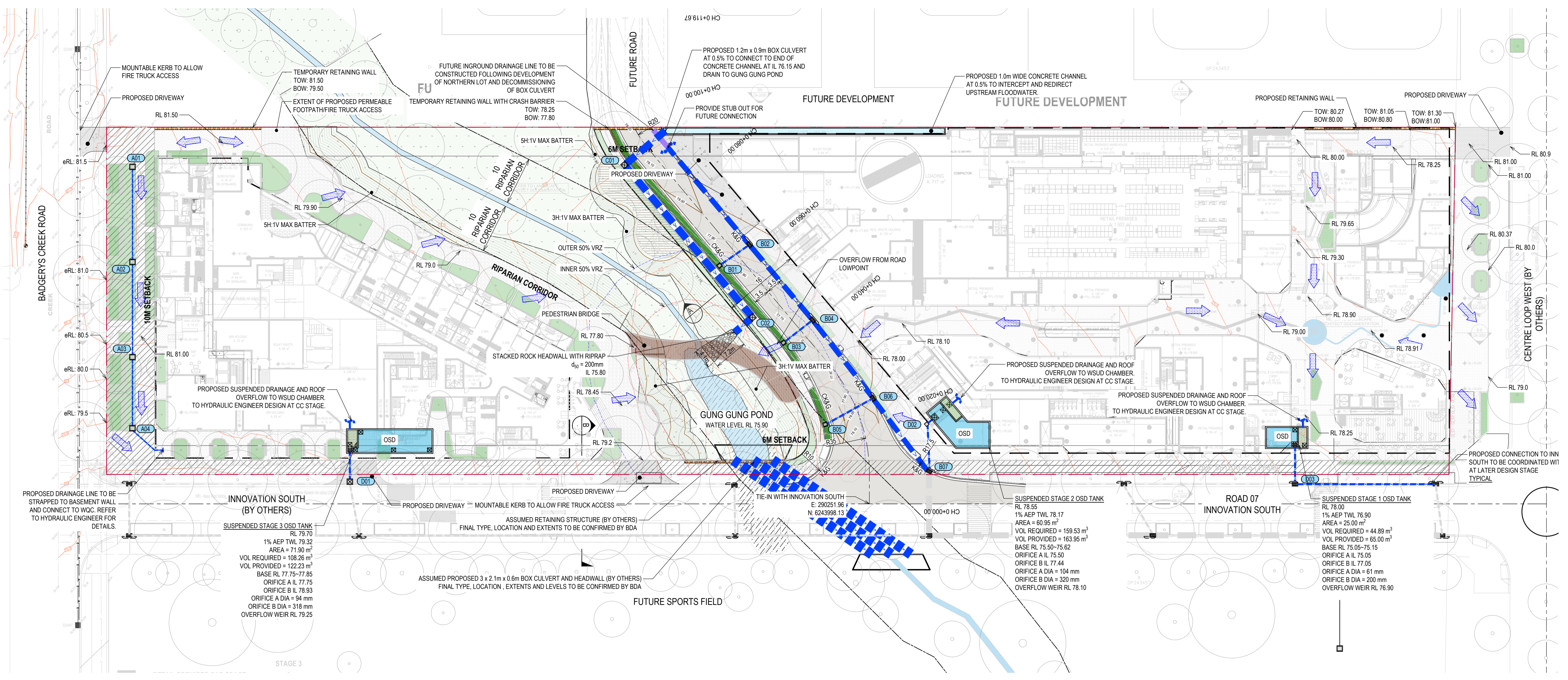
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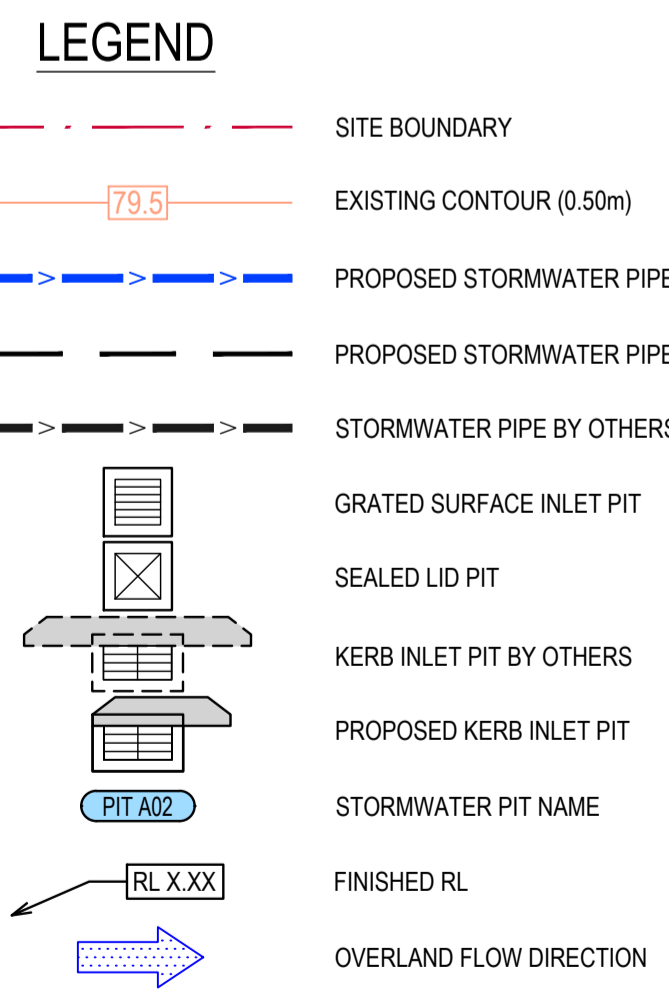
Drafted: AA, Designed: AA, Approved: SS, Date: OCT 2025, Scale: 1:400 @ A1

Job Number: SYD3120, Drawing Number: CE050, Revision: A

North Point:



GENERAL ARRANGEMENT PLAN
SCALE 1:400



PIT SCHEDULE

PIT ID	PIT TYPE	COVER LEVEL (mAHD)	PIT IL (mAHD)	DEPTH TO IL (m)
A01	900x900 GSP CLASS C GRATE	81.47	80.47	1.00
A02	900x900 GSP CLASS C GRATE	81.21	80.21	1.00
A03	900x900 GSP CLASS C GRATE	80.95	79.95	1.00
A04	900x900 GSP CLASS C GRATE	79.20	78.38	0.82
B01	600x600 GSP CLASS C GRATE	77.68	75.85	1.83
B02	1.8m LINTEL KIP CLASS D GRATE	77.78	75.76	2.02
B03	600x600 GSP CLASS C GRATE	77.54	75.74	1.80

B04	1.8m LINTEL KIP CLASS D GRATE	77.63	75.65	1.98
B05	600x600 GSP CLASS C GRATE	77.68	75.66	2.02
B06	1.8m LINTEL KIP CLASS D GRATE	78.03	75.53	2.50
B07	1.8m LINTEL KIP CLASS D GRATE	78.53	75.40	3.13
C01	900x900 SJP CLASS C LID	78.00	76.08	1.92
C02	900x900 SJP CLASS C LID	77.62	75.85	1.77
D01	900x900 SJP CLASS D GRATE	79.42	77.56	1.86
D02	900x900 GSP CLASS C GRATE	78.45	75.50	2.95
D03	1.8m LINTEL KIP CLASS D GRATE	77.56	74.99	2.57

- NOTES:**
- ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE.
 - ALL REDUCED LEVELS ARE IN mAHD.
 - ALL COORDINATES ARE IN MGA2020
 - SURVEY INFORMATION OBTAINED FROM SDG PTY LTD'S DRAWING TITLED 'DETAIL AND LEVEL SURVEY OF LOT 7 IN DP243457 - 135 BADGERYS CREEK ROAD BRADFIELD', DATED 10/04/2025.
 - SLAB/PAVEMENT TO HAVE MINIMUM 1% FALL TOWARDS STORMWATER INLETS AS PER AS2890 REQUIREMENTS.
 - GRATES AND FRAMES OF STORMWATER COMPONENTS INCLUDING ARE TO BE HEAVY DUTY OR CLASS D IN VEHICLE TRAFFICABLE AREA U.N.O.
 - GRATES AND FRAMES OF STORMWATER COMPONENTS ARE TO BE LIGHT DUTY OR CLASS B WITH HEEL GUARD IN LANDSCAPE AREAS U.N.O.
 - THE ROAD 'INNOVATION SOUTH' AND ALL RELATED COMPONENTS INCLUDING STORMWATER DRAINAGE ARE STILL UNDER DESIGN BY THE BRADFIELD DEVELOPMENT AUTHORITY AND SUBJECT TO FURTHER CHANGES. TO BE FURTHER COORDINATED DURING CC DESIGN.
 - REFER TO THE CIVIL & INTEGRATED WATER MANAGEMENT REPORT FOR THE STORMWATER DESIGN CONCEPT

Revision	Description
H	APPROVAL
G	APPROVAL
F	PRELIMINARY
E	PRELIMINARY
D	PRELIMINARY
C	PRELIMINARY
B	PRELIMINARY

Initial	Date	Client
KC	09.10.2025	CREATIVE VISION Level 2, 14 Railway Parade Burwood, NSW
KC	02.10.2025	
AA	12.09.2025	Architect PLUS STUDIO Level 4, 222 CLARENCE STREET, SYDNEY NSW 2000
AA	20.08.2025	
AA	03.07.2025	
AA	27.06.2025	
HI	27.11.2024	

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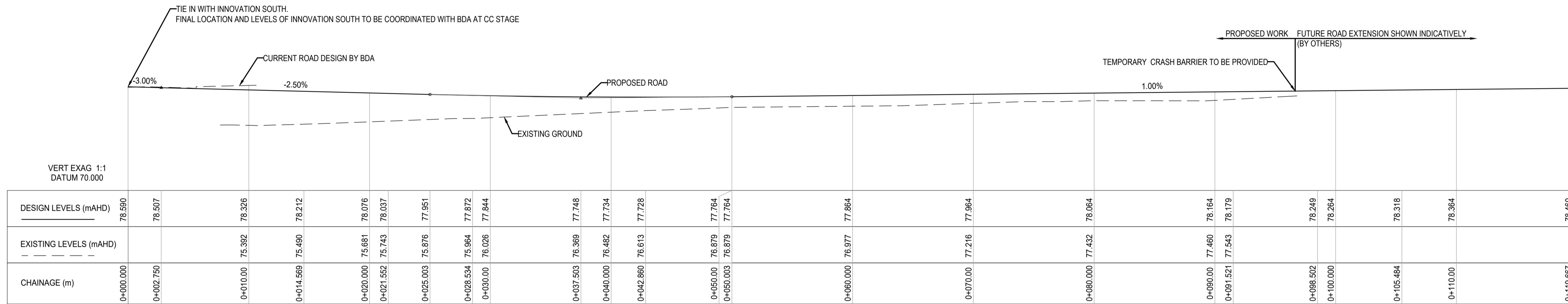
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Project
135 BADGERYS CREEK RD BRADFIELD

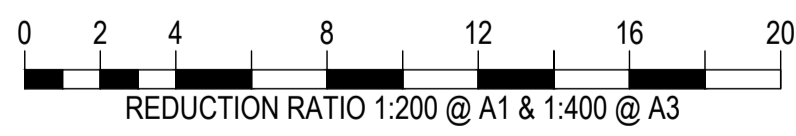
Drawing Title
CIVIL ENGINEERING SERVICES
GENERAL ARRANGEMENT PLAN

Drafted	Designed	Approved	Date	Scale	Sheet Size
AA	AA	SS	OCT 2025	1:400 @	A1
Job Number	Drawing Number	Revision	North Point		
SYD3120	CE100	H			

APPROVAL



PROPOSED NEW STREET LONG SECTION



APPROVAL

Revision	Description
C	APPROVAL
B	APPROVAL
A	PRELIMINARY

Initial	Date	Client
AA	02.10.2025	CREATIVE VISION Level 2, 14 Railway Parade Burwood, NSW
AA	25.09.2025	Architect PLUS STUDIO Level 4, 222 CLARENCE STREET, SYDNEY NSW 2000
AA	20.09.2024	

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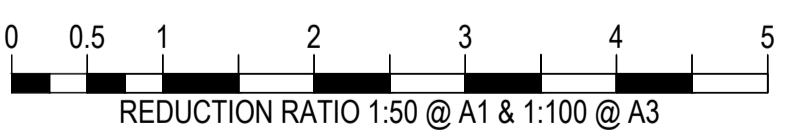
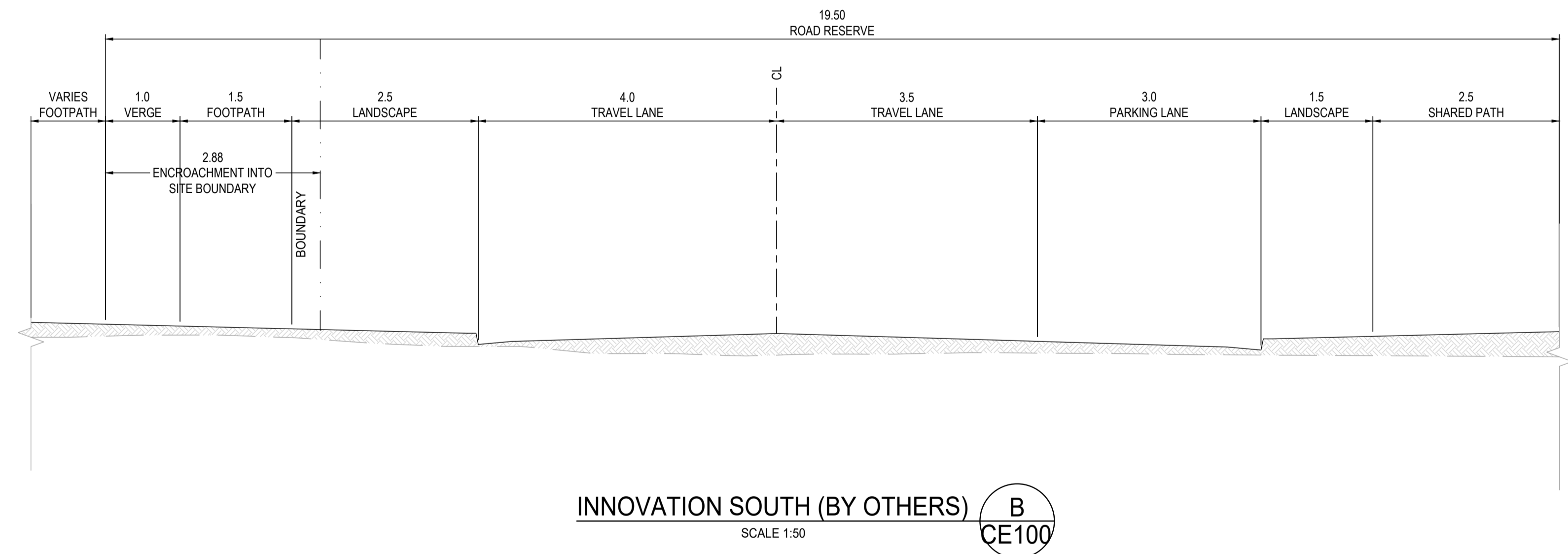
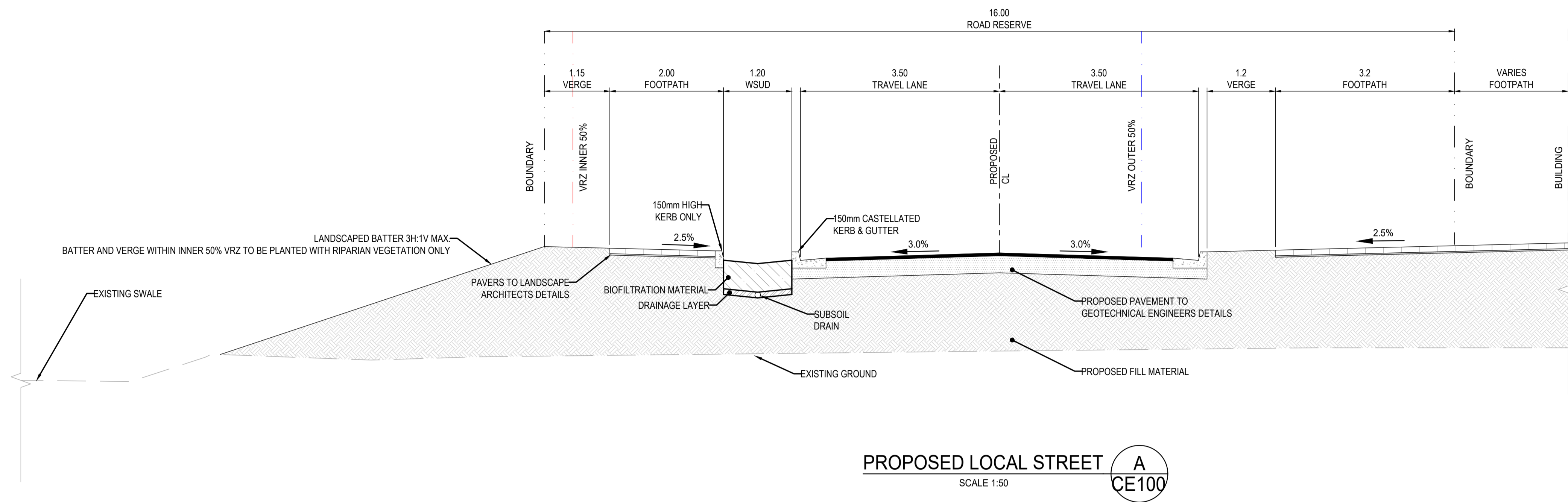
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Project
135 BADGERYS CREEK RD BRADFIELD

Drawing Title
CIVIL ENGINEERING SERVICES
ROAD LONG SECTIONS

Drafted	Designed	Approved	Date	Scale	Sheet Size
AA	AA	SS	OCT 2025	1:200 @	A1
Job Number	Drawing Number	Revision	North Point		
SYD3120	CE150	C			



Revision	Description
F	APPROVAL
E	APPROVAL
D	PRELIMINARY
C	PRELIMINARY
B	PRELIMINARY
A	PRELIMINARY

Initial	Date	Client
AA	02.10.2025	CREATIVE VISION
AA	25.09.2025	Level 2, 14 Railway Parade Burwood, NSW
AA	03.07.2025	Architect
AA	19.06.2025	PLUS STUDIO
HI	21.11.2024	Level 4, 222 CLARENCE STREET, SYDNEY NSW 2000
HI	20.09.2024	

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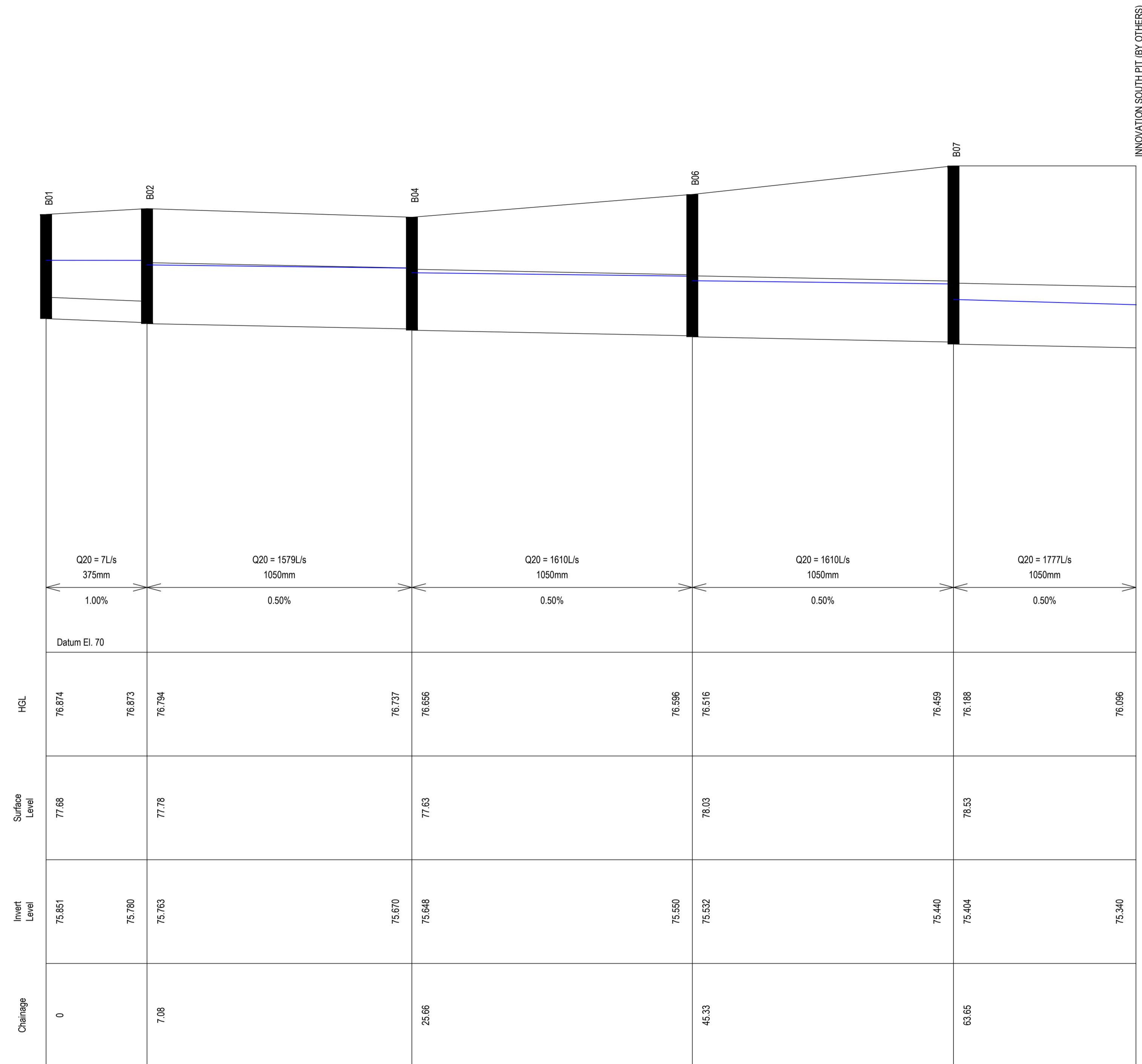
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Project
135 BADGERYS CREEK RD BRADFELD

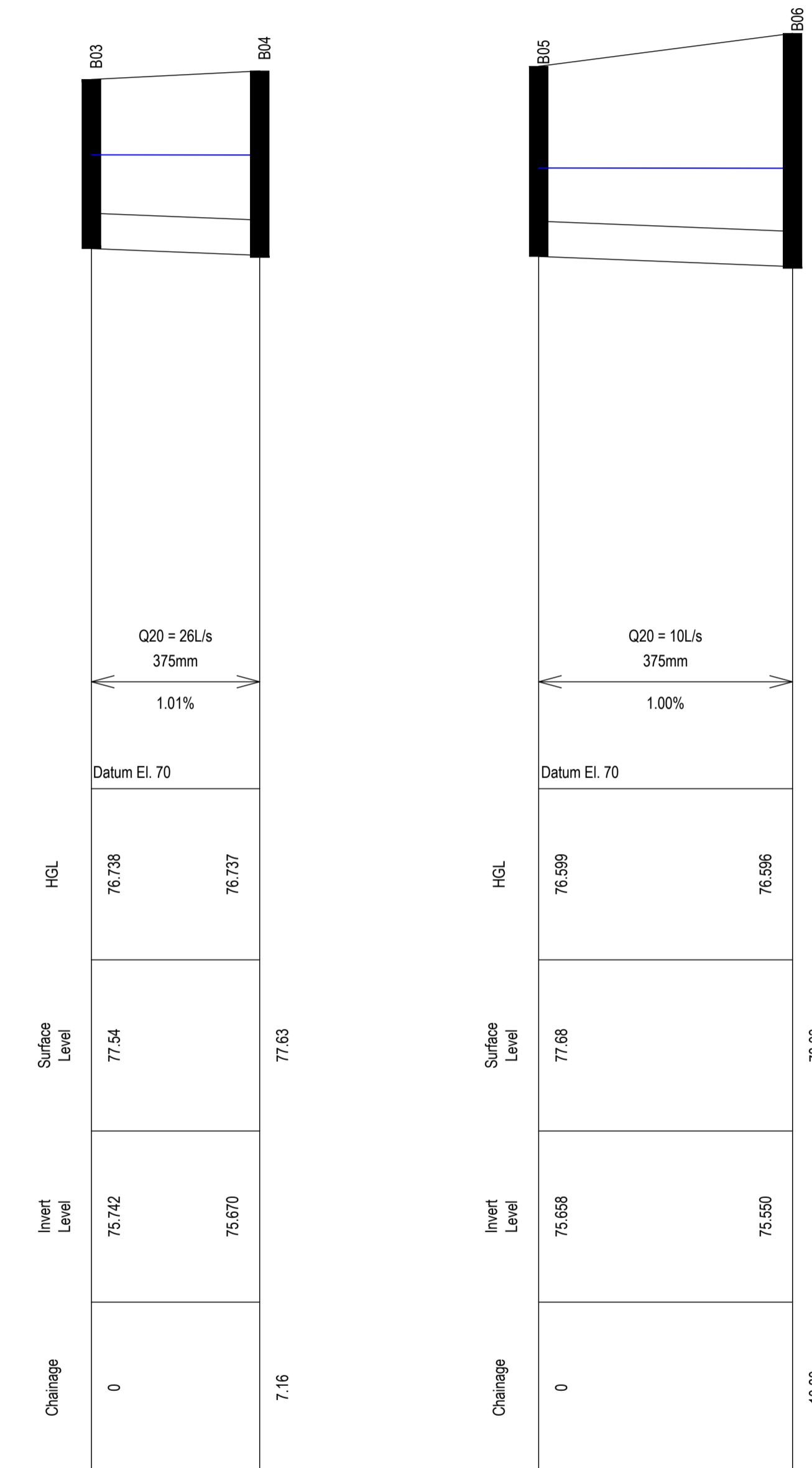
Drawing Title
CIVIL ENGINEERING SERVICES
ROAD TYPICAL SECTIONS

Drafted	Designed	Approved	Date	Scale	Sheet Size
AA	AA	SS	OCT 2025	1:50 @	A1
Job Number	Drawing Number	Revision	North Point		
SYD3120	CE200	F			

APPROVAL



INNOVATION SOUTH PIT (BY OTHERS)



STORMWATER LONG SECTION - SHEET 1
 HORIZONTAL SCALE 1:200
 VERTICAL SCALE 1:50

APPROVAL

Revision	Description
B	APPROVAL
A	APPROVAL

Initial	Date	Client
KC	02.10.2025	CREATIVE VISION
AA	25.09.2025	Level 2, 14 Railway Parade Burwood, NSW
		Architect
		PLUS STUDIO
		Level 4, 222 CLARENCE STREET, SYDNEY NSW 2000

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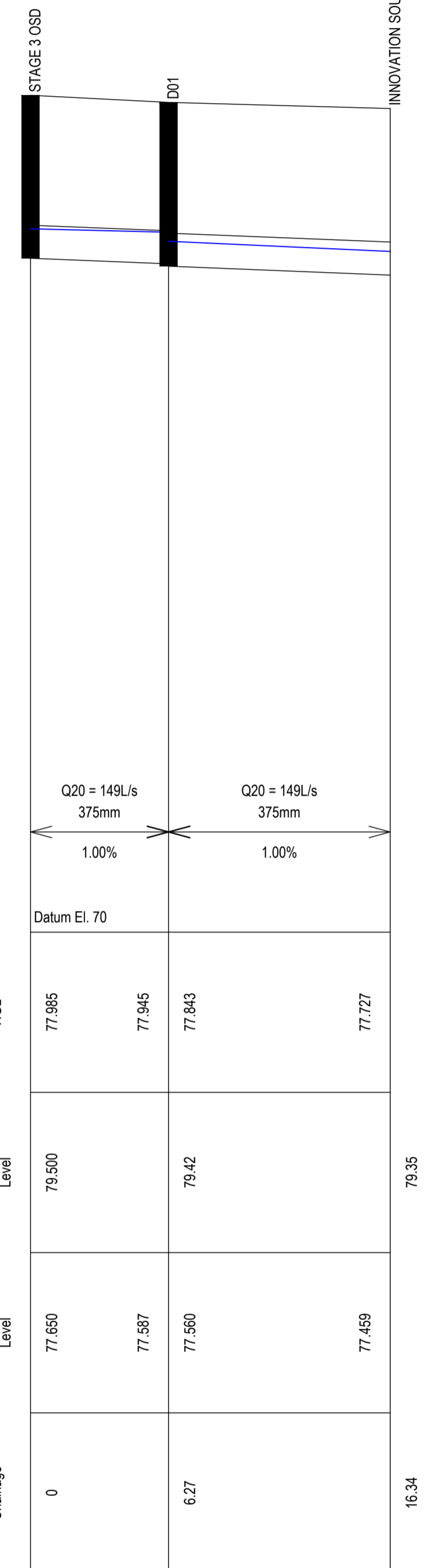
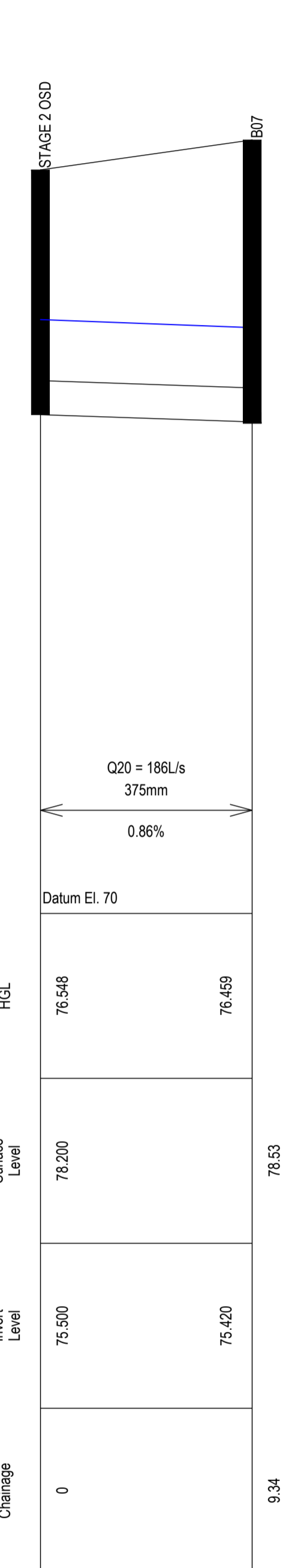
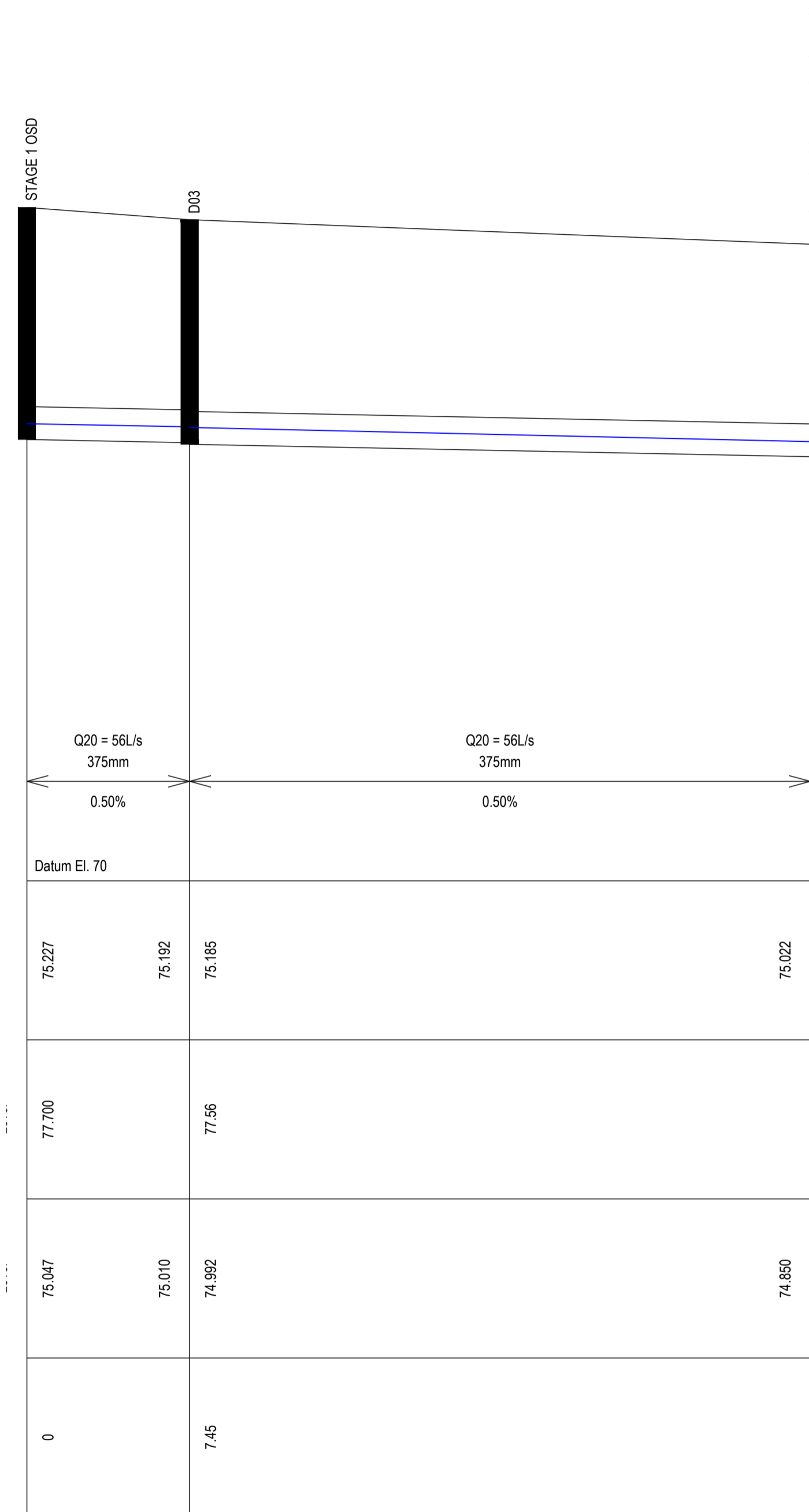
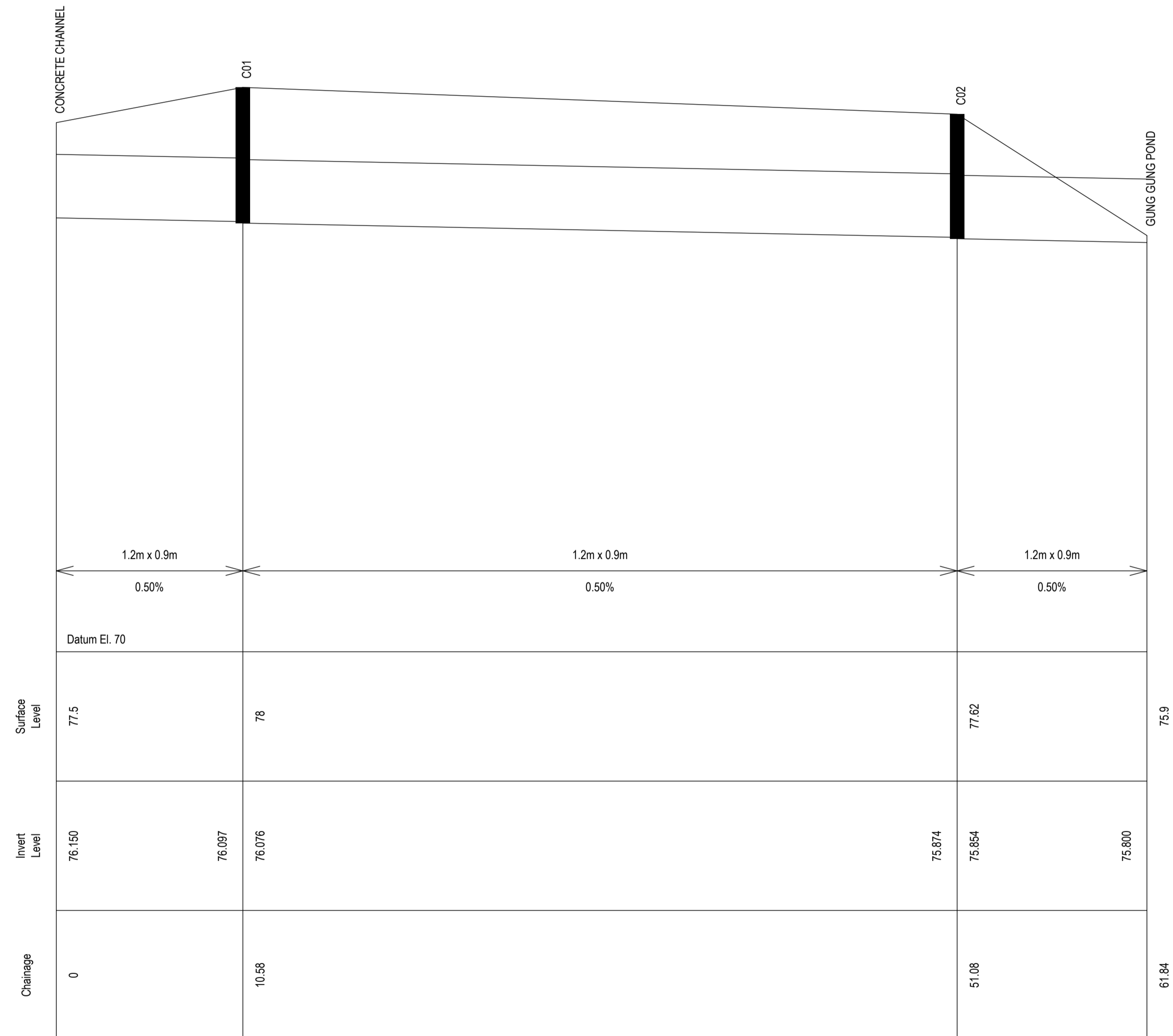
Project
 135 BADGERYS CREEK RD BRADFIELD

Drawing Title
CIVIL ENGINEERING SERVICES
 STORMWATER LONG SECTIONS - SHEET 1

Drafted	Designed	Approved	Date	Scale	Sheet Size
AA	AA	SS	OCT 2025		@ A1
Job Number	Drawing Number	Revision	North Point		
SYD3120	CE250	B			

LEGEND

20YR ARI HYDRAULIC GRADE LINE



STORMWATER LONG SECTION - SHEET 2
 HORIZONTAL SCALE 1:200
 VERTICAL SCALE 1:50

APPROVAL

Revision	Description
A	APPROVAL

Initial	Date	Client
KC	02.10.2025	CREATIVE VISION Level 2, 14 Railway Parade Burwood, NSW
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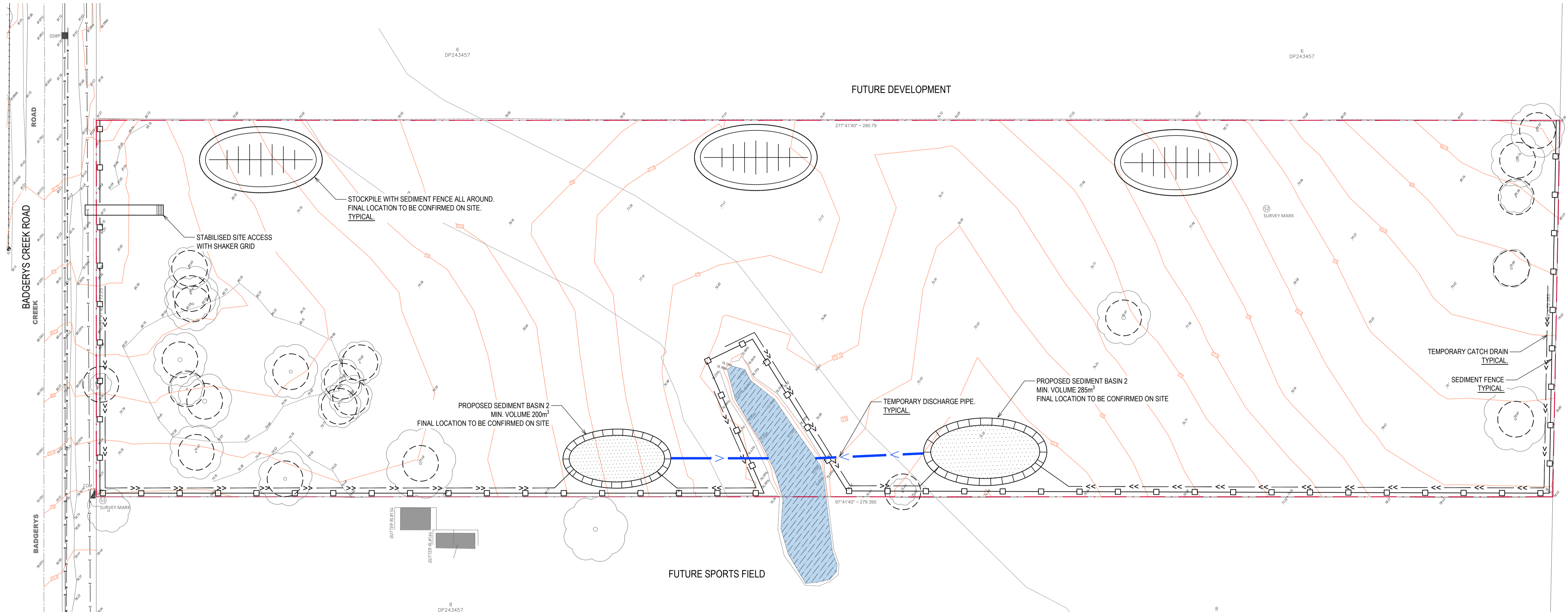
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Drawing Title
CIVIL ENGINEERING SERVICES
STORMWATER LONG SECTIONS - SHEET 2

Drafted	Designed	Approved	Date	Scale	Sheet Size
AA	AA	SS	OCT 2025		@ A1
Job Number	Drawing Number	Revision	North Point		
SYD3120	CE251	A			



LEGEND

- SITE BOUNDARY
- EXISTING CONTOUR (0.50m)
- SEDIMENT FENCE
- TEMPORARY CATCH DRAIN
- TEMPORARY DRAINAGE PIPE
- SAND BAG
- FLOW DIRECTION
- PROPOSED STOCKPILE LOCATION WITH SEDIMENT FENCE
- SEDIMENT BASIN
- EXISTING STORMWATER PIPE
- EXISTING SEWER LINE
- EXISTING WATER MAIN
- EXISTING TELECOMMUNICATION LINE
- EXISTING GAS MAIN
- EXISTING ELECTRICAL MAIN
- STABILISED SITE ACCESS
- EXISTING TREE TO BE REMOVED

RUSLE CALCULATION:
 REVISED UNIVERSAL SOIL LOSS EQUATION:
 $A = R * K * LS * P * C$ (t/ha/yr)
 $R = 164.74 (1.1177)^S * S^{0.6442}$
 WHERE $S = 8.62 \text{ mm/hr}$ (2-YEAR ARI 6 hr EVENT)
 $R = 1723$
 $K = 0.038$ (BASED ON APPENDIX C FOR LUDDENHAM)
 $LS = 1.35$ (BASED ON 5% SLOPE FOR 100m)
 $P = 1.3$
 $C = 1.0$
 $A = 114.90 \text{ t/ha/yr}$
 $\text{SOIL LOSS} = 114.90 \text{ t/ha/yr} < 150 \text{ t/ha/yr}$
 HENCE, PER TABLE 4.2 OF LANDCOM BLUE BOOK,
 EROSION HAZARD = VERY LOW HAZARD

SEDIMENT BASIN 1 CALCULATION:
 SOIL TYPE: D OR F (ASSUMED)
 RAINFALL DEPTH = 51.7 mm (2-YEAR ARI 6 hr EVENT)
 $CV = 0.63$ (TABLE F2)
 $A = 1.20 \text{ Ha}$
 $A = R_{90\% \text{ SDAY}} = 25.1 \text{ mm}$ (TABLE 6.3A)
 SETTLING ZONE = $10 \times CV \times A \times R = 190 \text{ m}^3$
 SEDIMENT STORAGE ZONE = 95 m^3 (50% OF SETTLING ZONE CAPACITY)
 TOTAL SEDIMENT BASIN VOLUME = 285 m^3

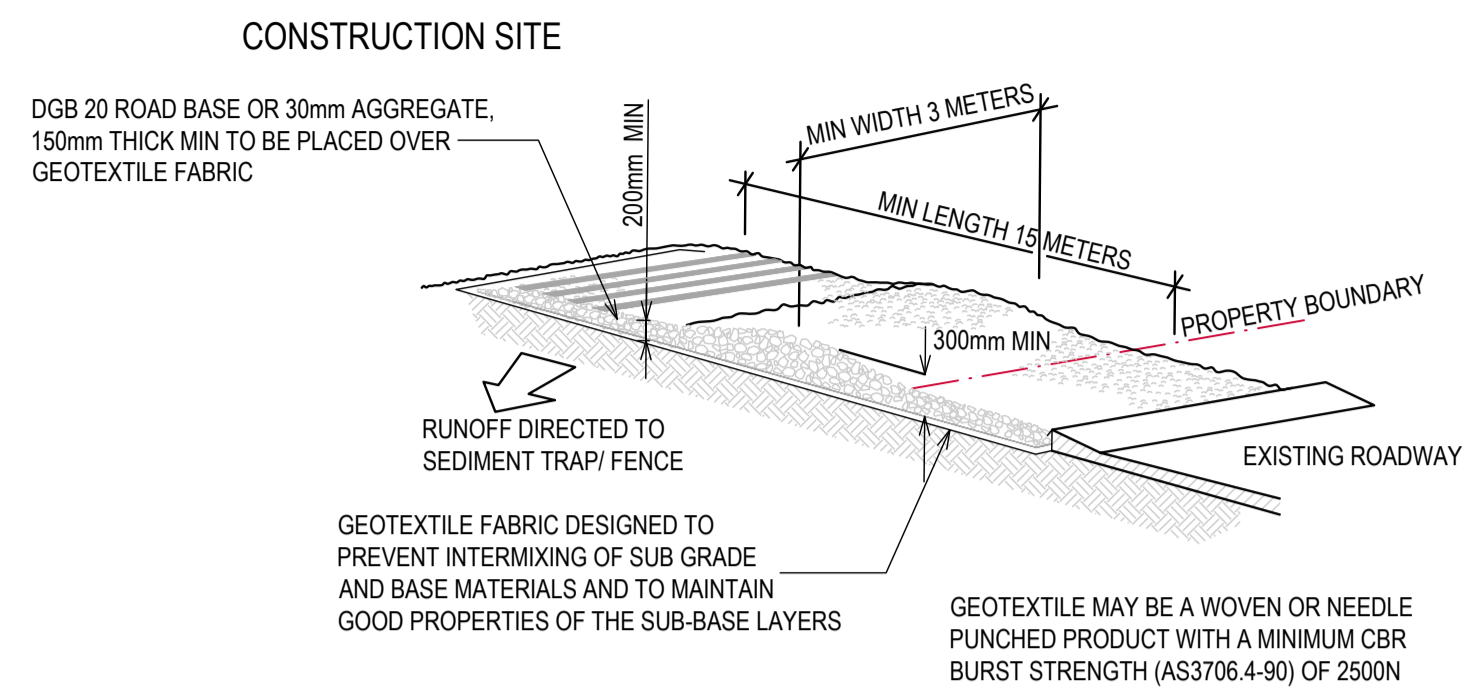
SEDIMENT BASIN 2 CALCULATION:
 SOIL TYPE: D OR F (ASSUMED)
 RAINFALL DEPTH = 51.7 mm (2-YEAR ARI 6 hr EVENT)
 $CV = 0.63$ (TABLE F2)
 $A = 0.84 \text{ Ha}$
 $A = R_{90\% \text{ SDAY}} = 25.1 \text{ mm}$ (TABLE 6.3A)
 SETTLING ZONE = $10 \times CV \times A \times R = 133 \text{ m}^3$
 SEDIMENT STORAGE ZONE = 67 m^3 (50% OF SETTLING ZONE CAPACITY)
 TOTAL SEDIMENT BASIN VOLUME = 200 m^3

NOTES:
 THE EROSION AND SEDIMENT CONTROL PLAN IS A CONCEPT PLAN DEMONSTRATING AN APPROACH TO EROSION & SEDIMENTATION CONTROL FOR THE SITE. IT IS THE CONTRACTOR RESPONSIBILITY TO PROVIDE AN EROSION & SEDIMENT CONTROL PLAN (ESCP) AND A COMPLETED DESIGN CERTIFICATE FROM A CPESC PRIOR TO COMMENCEMENT OF WORK. CERTIFICATION MUST BE UNDERTAKEN BY A SUITABLY QUALIFIED, EXPERIENCE PROFESSIONAL NOT DIRECTLY EMPLOYED BY THE PRINCIPAL.

APPROVAL

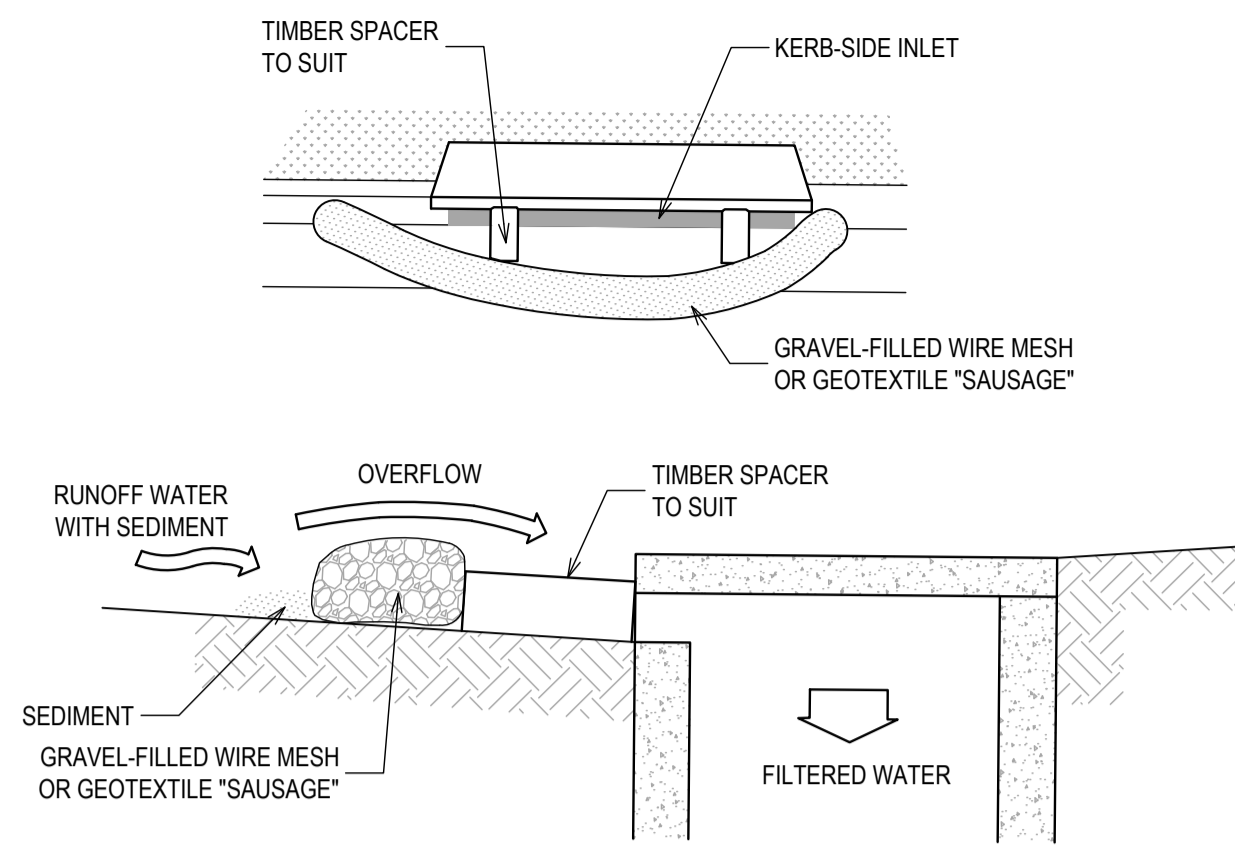
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Revision</th> <th>Description</th> </tr> <tr> <td>B</td> <td>APPROVAL</td> </tr> <tr> <td>A</td> <td>APPROVAL</td> </tr> </table>	Revision	Description	B	APPROVAL	A	APPROVAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Initial</th> <th>Date</th> </tr> <tr> <td>AA</td> <td>02.10.2025</td> </tr> <tr> <td>AA</td> <td>25.09.2025</td> </tr> </table>	Initial	Date	AA	02.10.2025	AA	25.09.2025	<p>Client CREATIVE VISION Level 2, 14 Railway Parade Burwood, NSW</p> <p>Architect PLUS STUDIO Level 4, 222 CLARENCE STREET, SYDNEY NSW 2000</p>	<p>Inspire a better world through influence and design</p>	<p>Project 135 BADGERYS CREEK RD BRADFIELD</p>	<p>Drawing Title CIVIL ENGINEERING SERVICES SOIL AND WATER MANAGEMENT PLAN</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Drafted</th> <th>Designed</th> <th>Approved</th> <th>Date</th> <th>Scale</th> <th>Sheet Size</th> </tr> <tr> <td>AA</td> <td>AA</td> <td>SS</td> <td>OCT 2025</td> <td>1:400 @</td> <td>A1</td> </tr> <tr> <th>Job Number</th> <th>Drawing Number</th> <th>Revision</th> <th>North Point</th> <td colspan="2"></td> </tr> <tr> <td>SYD3120</td> <td>CE300</td> <td>B</td> <td></td> <td colspan="2"></td> </tr> </table>	Drafted	Designed	Approved	Date	Scale	Sheet Size	AA	AA	SS	OCT 2025	1:400 @	A1	Job Number	Drawing Number	Revision	North Point			SYD3120	CE300	B			
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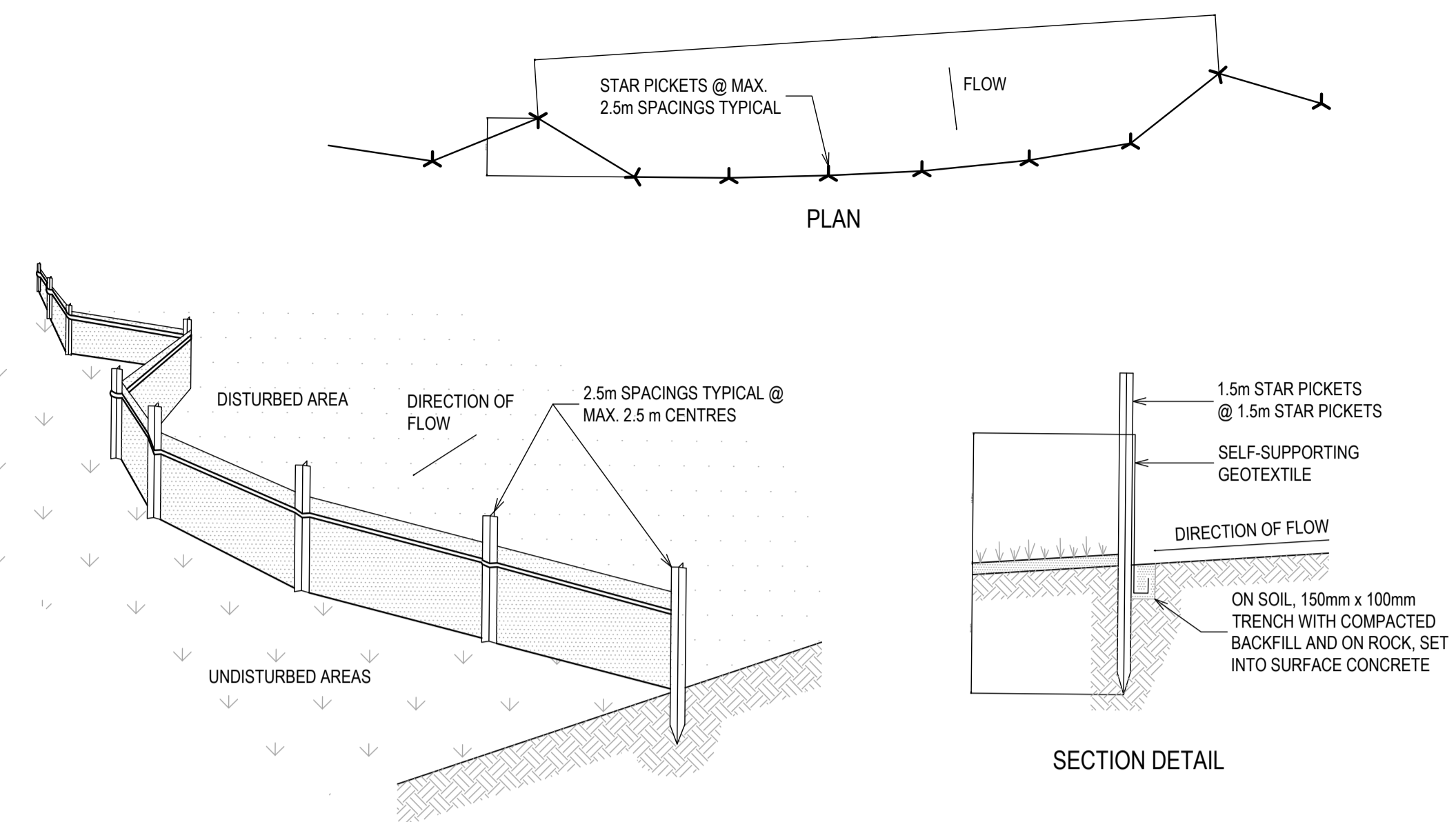
- NOTES:
1. THIS DEVICE IS TO BE LOCATED AT ALL EXITS FROM CONSTRUCTION SITE.
 2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN PLANKS.
 3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40-70mm SIZE AGGREGATE.
 4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY HUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.

STABILISED SITE ACCESS WITH SHAKER RAMP
SCALE N.T.S.

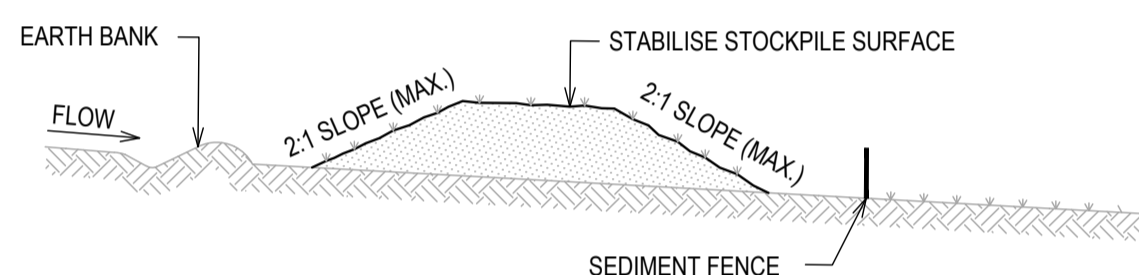


- MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:
1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
 2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
 3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
 4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
 5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET FILTER
SCALE N.T.S.

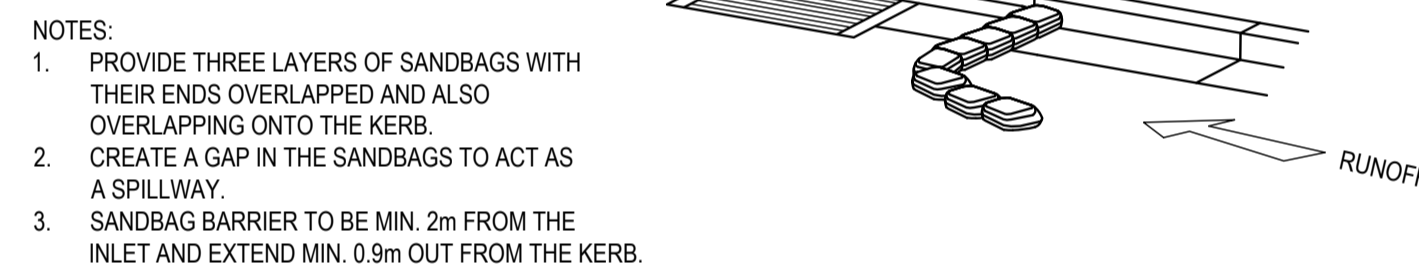


SEDIMENT FENCE
SCALE N.T.S.



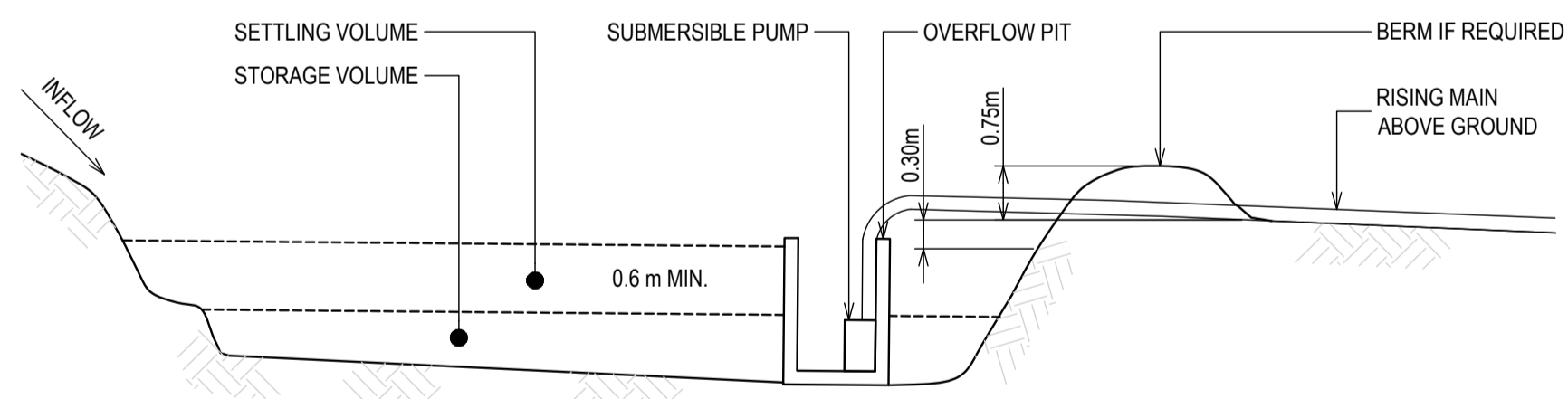
- STOCKPILE CONSTRUCTION NOTES:
1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
 3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
 4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
 5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES
SCALE N.T.S.

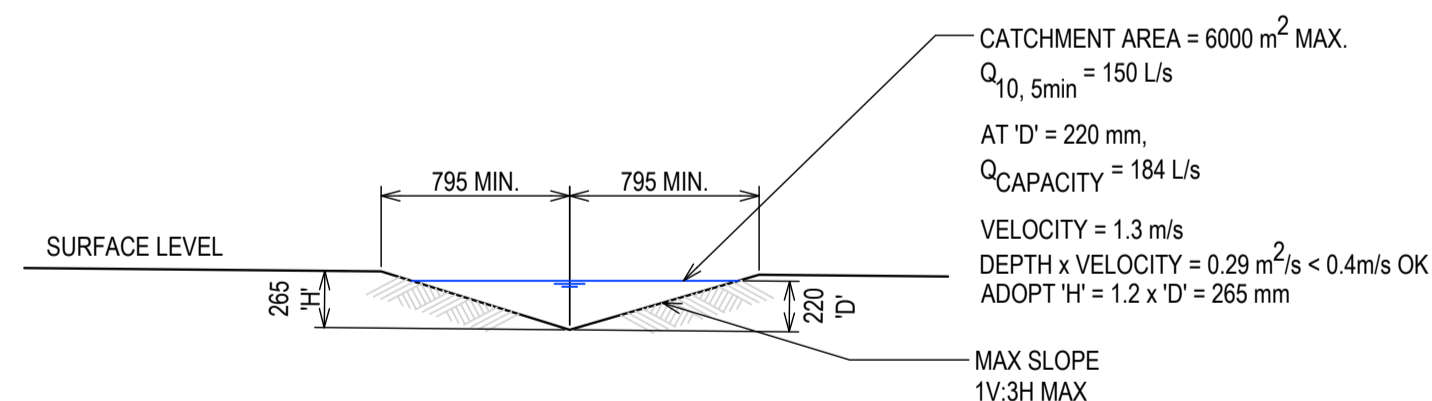


- NOTES:
1. PROVIDE THREE LAYERS OF SANDBAGS WITH THEIR ENDS OVERLAPPED AND ALSO OVERLAPPING ONTO THE KERB.
 2. CREATE A GAP IN THE SANDBAGS TO ACT AS A SPILLWAY.
 3. SANDBAG BARRIER TO BE MIN. 2m FROM THE INLET AND EXTEND MIN. 0.9m OUT FROM THE KERB.

GULLY INLET SANDBAG PROTECTION DETAIL
SCALE N.T.S.



TYPICAL SEDIMENT BASIN
SCALE N.T.S.



CATCH DRAIN TYPICAL SECTION
SCALE N.T.S.

SEDIMENT FENCE CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150 mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150 mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

GENERAL INSTRUCTIONS:

1. THIS SEDIMENT AND EROSION CONTROL WORKS FOR THE SITE SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF 'MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION, 4TH EDITION (2004)' BY LANDCOM.
2. AS REQUIRED BY COUNCIL, SEDIMENT CONTROL MEASURES WILL BE REQUIRED DURING THE CONSTRUCTION OF ALL DEVELOPMENTS/BUILDING WORKS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY THAT THE WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN AND COUNCIL'S REQUIREMENTS.
3. THE CONTRACTOR SHALL ENSURE THAT ALL SUBCONTRACTORS ARE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.
4. THE NON-DISTURBED PORTION OF THE CATCHMENT OUTSIDE OF OPERATING AREA IS TO BYPASS THE BASINS BY MEANS OF LINED CATCH DRAINS.
5. WHERE PRACTICABLE, THE SOIL EROSION HAZARD SHALL BE KEPT AS LOW AS POSSIBLE. LIMITATIONS TO ACCESS ARE TO BE VIA STANLEY LANE UNLESS OTHERWISE APPROVED BY COUNCIL.
6. ENSURE THAT ALL DRAINS ARE OPERATING EFFECTIVELY AND SHALL MAKE ANY NECESSARY REPAIRS. REMOVE TRAPPED SEDIMENT WHERE THE CAPACITY OF THE TRAPPING DEVICE FALLS BELOW 60%.
7. CONSTRUCT ADDITIONAL EROSION OR SEDIMENT CONTROL WORKS AS MAY BE APPROPRIATE TO ENSURE THE PROTECTION OF DOWNSLOPE LANDS AND WATERWAYS.
8. MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION AT ALL TIMES UNTIL THE SITE IS REHABILITATED.
9. REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.

CONSTRUCTION SEQUENCE:

WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:

1. INSTALL SEDIMENT FENCING AND CUT DRAINS TO MEET THE REQUIREMENTS OF THE SEDIMENT AND EROSION CONTROL PLAN. WASTE COLLECTION BINS SHALL BE INSTALLED ADJACENT TO SITE OFFICE.
2. CONSTRUCT STABILISED SITE ACCESS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
3. REDIRECT CLEAN WATER AROUND THE CONSTRUCTION SITE.
4. INSTALL SEDIMENT CONTROL PROTECTION MEASURES AT ALL NATURAL AND MAN-MADE DRAINAGE STRUCTURES. MAINTAIN UNTIL ALL THE DISTURBED AREAS ARE STABILISED.
5. CLEAR AND STRIP THE WORK AREAS. MINIMISE THE DAMAGE TO THE GRASS AND LOW GROUND COVER OF NON-DISTURBED AREAS.
6. ANY DISTURBED AREAS, OTHER THAN BUILDING PAD AREAS, SHALL IMMEDIATELY BE COVERED WITH SITE TOPSOIL WITHIN 7 DAYS OF CLEARING. BUILDING PAD AREAS SHALL BE COVERED WITH BITUMEN EMULSION AS SPECIFIED.
7. APPLY PERMANENT STABILISATION TO SITE (LANDSCAPING).

PRINTING NOTE:
THIS DRAWING TO BE PRINTED IN COLOUR.

APPROVAL

Revision	Description	Initial	Date	Client
B	APPROVAL			CREATIVE VISION Level 2, 14 Railway Parade Burwood, NSW
A	APPROVAL			Architect PLUS STUDIO Level 4, 222 CLARENCE STREET, SYDNEY NSW 2000

Inspire a better world through influence and design

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An **ayesa** company

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Project
135 BADGERYS CREEK RD BRADFIELD

Drawing Title
CIVIL ENGINEERING SERVICES
SOIL AND WATER MANAGEMENT DETAILS

Drafted	Designed	Approved	Date	Scale	Sheet Size
AA	AA	SS	OCT 2025	NTS	@ A1
Job Number	Drawing Number	Revision	North Point		
SYD3120	CE305	B			