

PROPOSED RESIDENTIAL DEVELOPMENT 27 RAILWAY STREET, CORRIMAL NSW DEVELOPMENT APPLICATION CIVIL PLANS CORRIMAL COKE WORKS STAGE 2A

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LOCALITY SKETCH
1:2500 @ A1

LEGEND PROPOSED

	STORMWATER PIPE		PAVEMENT LEVEL
	GRATED PIT		CONTOURS
	JUNCTION PIT		CATCHMENT BOUNDARY
	KERB INLET PIT		EDGE STRIP
	GRATED DRAIN		KERB & GUTTER
	DOWNPIPES		LAYBACK KERB & GUTTER
			BLOCK RETAINING WALL

LEGEND EXISTING

	STORMWATER LINE		EXISTING SPOT LEVEL
	STORMWATER PIT		EXISTING CONTOURS
	WATER LINE		GAS LINE
	SEWER LINE		ELECTRICAL LINE
	TELSTRA LINE		

GENERAL NOTES

- G1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL'S STANDARD SPECIFICATIONS AND TO THE REQUIREMENTS OF THE PCA.
- G2. INSPECTIONS BY THE CIVIL ENGINEER SHALL BE CARRIED OUT AT THE FOLLOWING STAGES:
- (a) PRIOR TO INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES
 - (b) PRIOR TO BACKFILLING PIPELINES, SUBSOIL DRAINS, TRENCH BEDDING AND DAMS
 - (c) PRIOR TO CASTING OF PITS AND OTHER CONCRETE STRUCTURES, INCLUDING KERB AND GUTTER
 - (d) PROOF ROLLER TEST OF SUBGRADE AND SUB-BASE
 - (e) ROLLER TEST OF COMPLETED PAVEMENT PRIOR TO PLACEMENT OF WEARING COURSE
 - (f) FORMWORKS PRIOR TO POURING CONCRETE IN PARKING AREA FOR FOOTPATH CROSSING AND OTHER ASSOCIATED WORK
 - (g) PRIOR TO BACKFILLING PUBLIC UTILITY CROSSINGS IN ROAD RESERVES
 - (h) PRIOR TO PLACEMENT OF ASPHALTIC CONCRETE
 - (i) FINAL INSPECTION AFTER ALL WORKS ARE COMPLETED.
- G3. MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
- G4. NO WORK TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER.
- G5. VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- G6. ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF PCA AT COMPLETION OF WORKS.
- G7. ALL FILL AREAS ARE TO BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO STRIPPING AND ALL RECOMMENDATIONS OF THE SALINITY REPORT ARE TO BE FOLLOWED.
- G8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATION OF ANY EXISTING SERVICES AFFECTING THE WORKS AREA, ANY DAMAGED SERVICES SHALL BE REPAIRED AT THE CONTRACTORS COST.

EARTHWORKS NOTES

- E1. EARTHWORKS TO BE CARRIED OUT TO THE SATISFACTION OF THE PCA, SITE SUPERINTENDENT AND GEOTECHNICAL ENGINEER. UNSOUND MATERIALS ARE TO BE REMOVED FROM ROADS AND BUILDING PADFS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION CERTIFICATES WHERE REQUIRED.
- E2. WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS ONE IN FOUR (1:4), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE PCA AND GEOTECHNICAL ENGINEER.
- E3. ALL BATTERS ARE TO BE SCARIFIED TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
- E4. PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL WITH GRASS SEEDING ON FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. WHERE AREAS ARE TO BE LEFT EXPOSED AFTER WORKS.
- E5. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AUSTRALIAN STANDARD 3798 - 1996. WHERE IT IS PROPOSED TO USE TEST METHOD AS1289 E8.1 OR AS1289 E8.2 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS AS DIRECTED BY PCA. THE GEOTECHNICAL TESTING AUTHORITY SHALL HAVE A LEVEL 1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS 3798-1996, AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS.
- E6. THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOIL AND WATER MANAGEMENT PLAN PART OF THIS DRAWING SET SHEETS 11 AND 12.

ROADWORKS NOTES

- R1. SUBGRADE, SUB-BASE, AND BASE TO BE COMPACTED IN ACCORDANCE WITH SITEPLUS CIVIL DRAWINGS AND GEO-TECHNICAL RECOMMENDATIONS SPECIFICATION.
- R2. SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORM WATER DRAINAGE).
- R3. SERVICE CONDUITS TO BE PLACED AS DIRECTED BY PROJECT MANAGER.
- R4. PROPOSED SERVICES CROSSING EXISTING ROADS SHALL BE THRUST BORED UNDER THE ROAD SO AS NOT TO DAMAGE EXISTING SURFACE.
- R5. ALL ROADS ARE TO BE TEMPORARILY SEALED WITH 30mm GAP GRADED AC10, THE FINAL AC IS TO BE PLACED FOLLOWING CONSTRUCTION OF THE BUILDING WORKS.
- R6. SIGNPOSTING AND LINEMARKING TO CONFORM WITH AS1742.2 RAISED RETRO- REFLECTIVE PAVEMENT MARKERS TO CONFORM WITH AS1906. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS SHOULD BE DELINEATED BY REFLECTIVE WHITE MARKING.
- R7. ALL LEVELS ARE TO BE SET OUT FROM ESTABLISHED STATE SURVEY MARKS.

STORMWATER NOTES

- S1. ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED.
- S2. ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE CIVIL ENGINEER.
- S3. DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTEAM PITS.
- S4. ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.
- S5. ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 12-METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
- S6. CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE CIVIL ENGINEER.
- S7. ALL DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 100mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE CIVIL ENGINEER.
- S8. INTERALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO DRAINAGE LINES.
- S9. 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.
- S10. ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP AND PMF.
- S11. ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
- S12. CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY THE APPROVED PLANS OR THE PRINCIPAL CERTIFYING AUTHORITY.
- S13. SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.

GEOTECHNICAL NOTES

- GT1. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY, AND TO THE SATISFACTION OF THE CIVIL ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION SEE SWMP.
- GT2. TESTS SHALL BE UNDERTAKEN ON ANY PROPOSED FILL MATERIALS TO ENSURE THAT THEY DO NOT HAVE A HIGH DISPERSION POTENTIAL AS DEFINED BY EMERSON CRUMB/DISPERSION TESTS (AS1289 C8-1980).
- GT3. ALL FILLING AND PAVEMENT CONSTRUCTION MUST BE UNDERTAKEN TO THE REQUIREMENTS OF AS3798-2007 THE FOLLOWING COMPACTION LEVELS ARE RECOMMENDED:
- | | | |
|-------------------|------|----------|
| LANDSCAPE FILLING | 98% | STANDARD |
| ROAD SUB-GRADE | 100% | STANDARD |
| ROAD SUB-BASE | 100% | MODIFIED |
| ROAD BASE | 98% | MODIFIED |
- GT4. ALL TESTING WORKS SHALL BE CONTROLLED AND CERTIFIED BY A N.A.T.A REGISTERED LABORATORY. A COLLATED COPY OF ALL TEST CERTIFICATES, ACCOMPANIED BY AN OVERALL SITE PLAN, CLEARLY INDICATING THE LOCATION OF EACH TEST AND FILL AREAS ETC, AND THE LABORATORY CERTIFICATE COVERING THE WHOLE OF THE AREA TESTED ARE TO BE FORWARDED TO COUNCIL UPON COMPLETION.
- GT5. FINAL PAVEMENT THICKNESS TO BE DETERMINED AFTER BOXING OUT BY JOINT INSPECTION BY N.A.T.A REGISTERED LABORATORY AND THE CIVIL ENGINEER. PAVEMENT REPORT TO BE AVAILABLE TO COUNCIL A MINIMUM OF TWO CLEAR DAYS PRIOR TO INSPECTION.

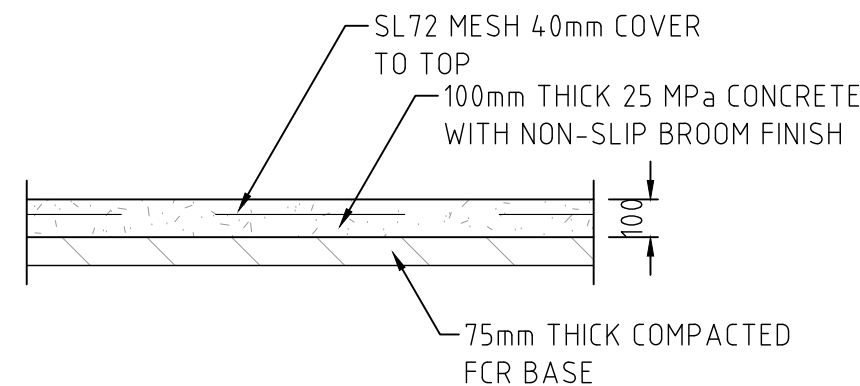
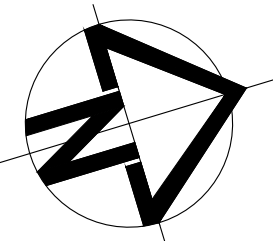
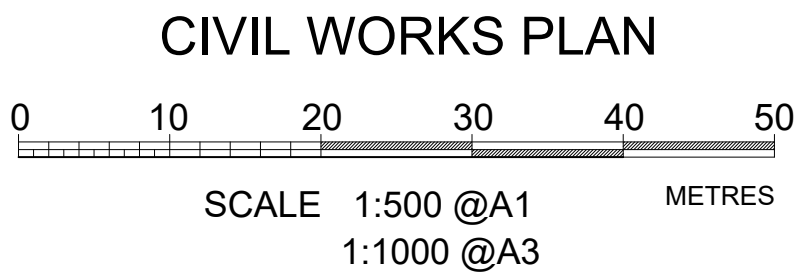
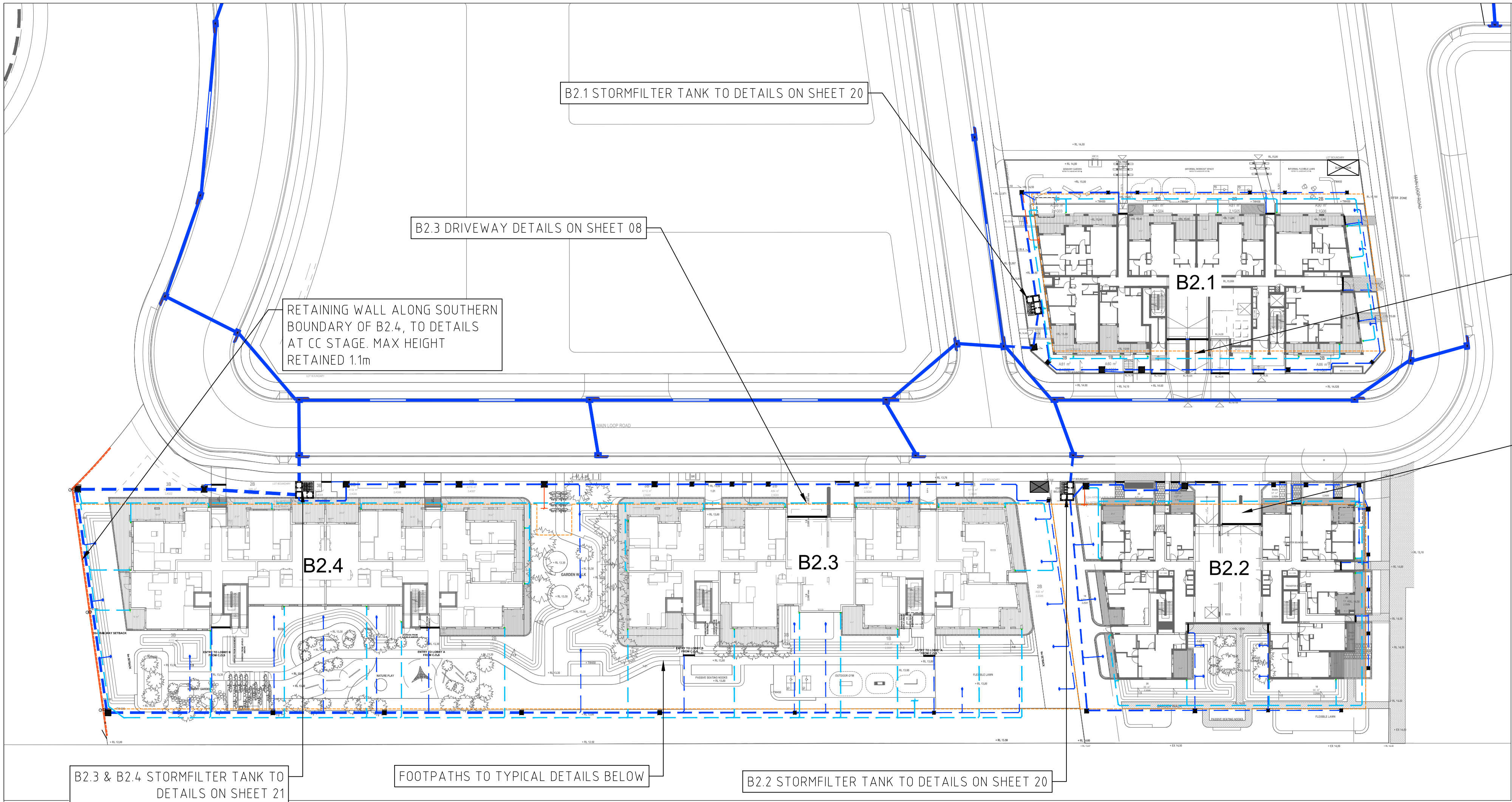
DIMENSIONS SHALL BE NOT BE OBTAINED BY SCALING FROM THIS SET OF PLANS

SERVICES ARE SHOWN INDICATIVE ONLY. CONTRACTOR TO CONFIRM ALL SERVICE LOCATIONS PRIOR TO CONSTRUCTION

ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL'S ENGINEERING SPECIFICATIONS.

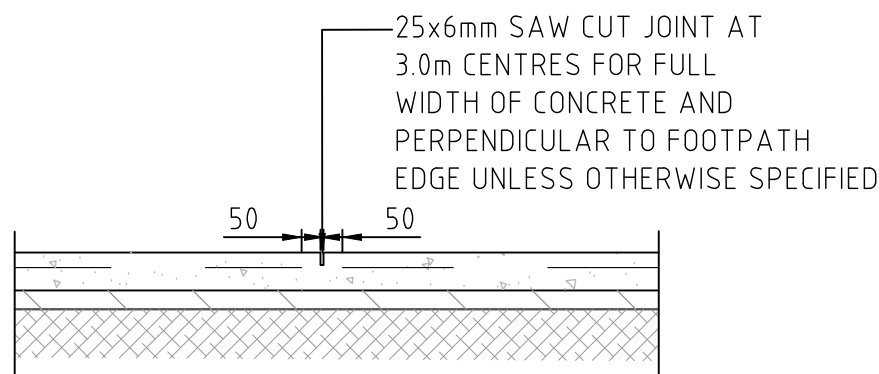
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REVISIONS	No.	DESCRIPTION	DRN	APP	DATE	siteplus Site Plus Pty Ltd ABN 73 104 315 095					WOLLONGONG - HEAD OFFICE Shop 1, 18 Arrow Avenue Figtree NSW 2525 PO Box 506 Figtree NSW 2525 T 61 2 4227 4233 F 61 2 4227 4133 E info@siteplus.com.au	Height Datum	A.H.D.	Client Title		Dwg Title		Ref & Dwg No	
	B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25	engineering landscape design flooding management					Drawn	I.B.	LEGACY PROPERTY GROUP C/- CHESTER PROJECT MANAGEMENT		PROPOSED RESIDENTIAL DEVELOPMENT 27 RAILWAY STREET, CORRIMAL		25152.DA.C01		
	C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25														
	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25														
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25														
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25														
										Dwg Status		Local Authority							
										APPROVAL		WOLLONGONG		TITLE PAGE					
														Date		Rev			
														03.11.25		F A1			

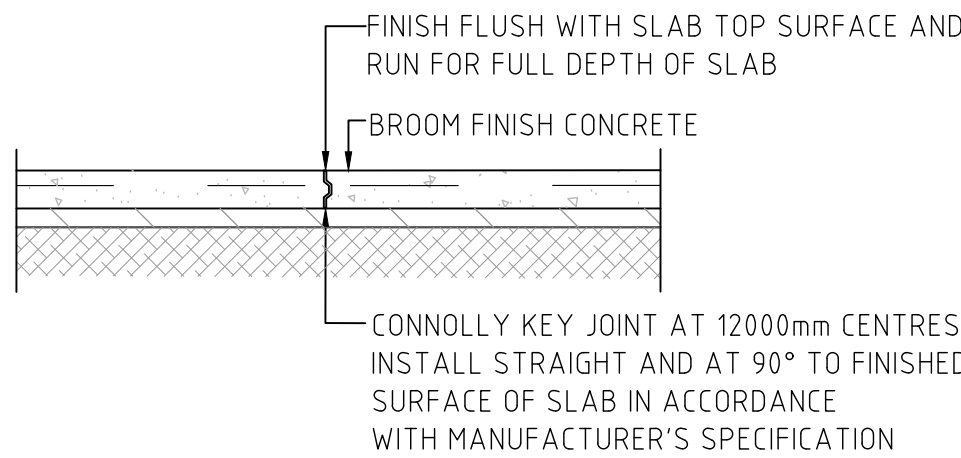


TYPICAL FOOTPATH DETAIL
SCALE 1:20

NOTE: CONTRACTION JOINTS TO BE PLACED
LATERALLY AT INTERVALS 4.0m
AND EXPANSION JOINTS AT 12.0m INTERVALS



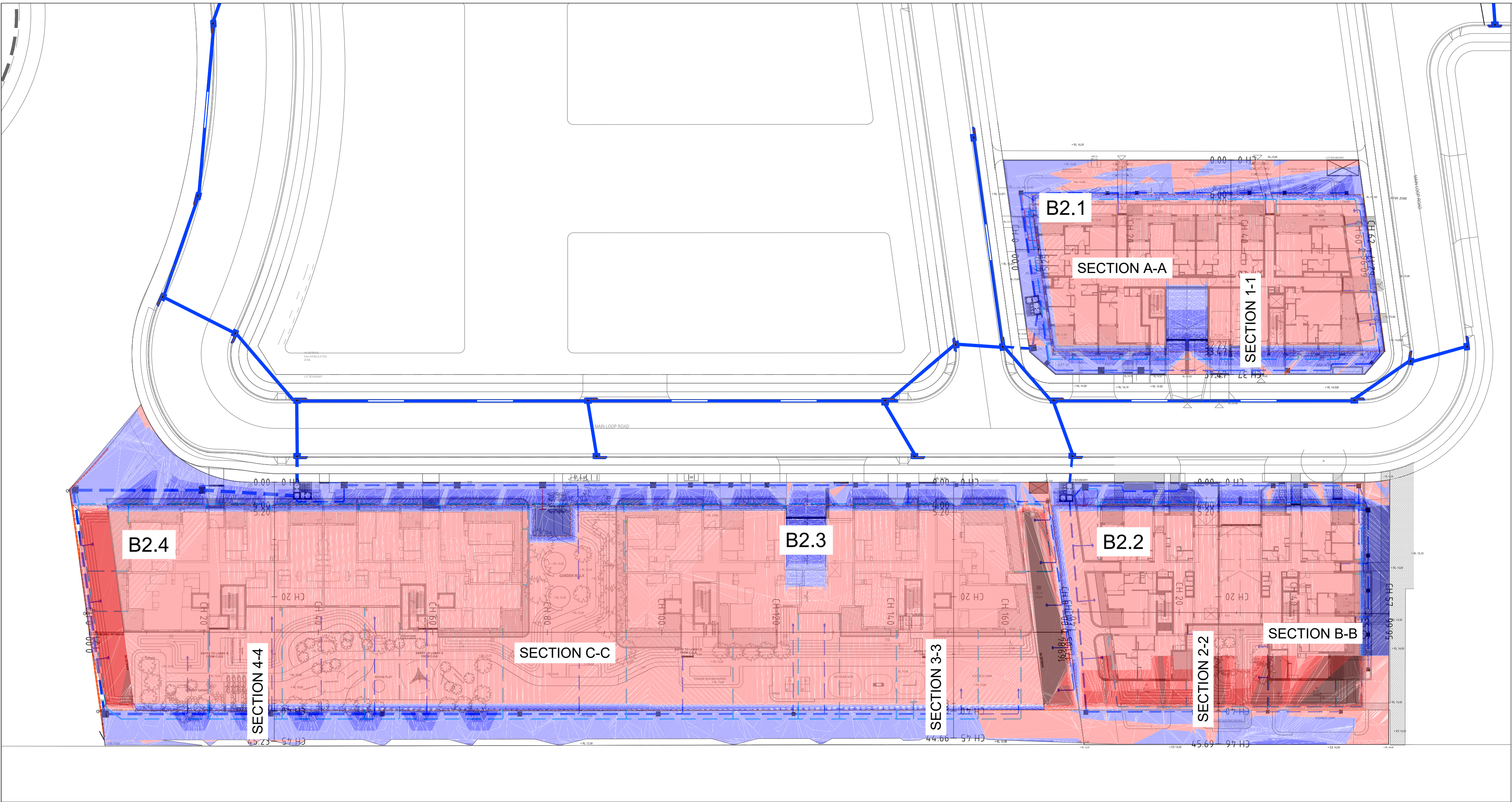
SAWCUT JOINT
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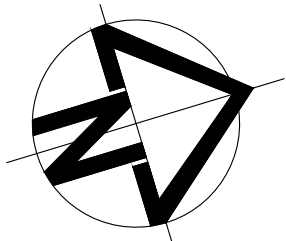
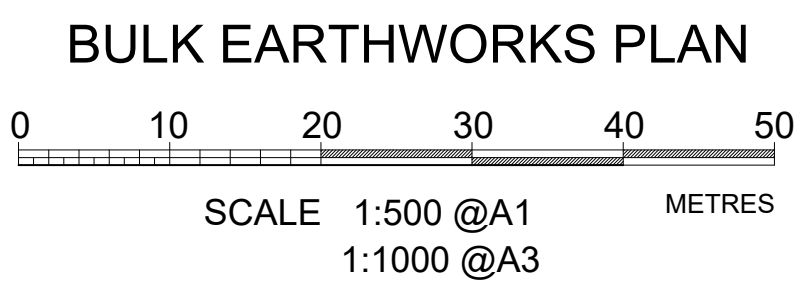
CONNOLLY KEY JOINT
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	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25											Checked	A.C.			Scale	AS NOTED @ A1					
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25											Approved	A.C.	Dwg Status	APPROVAL	Local Authority	WOLLONGONG	Date	03.11.25	Rev	F	A1
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25													CIVIL WORKS PLAN								



REFER TO STAGE 2A CIVIL PLANS PREPARED BY MAKER CONSULTING FOR MORE DETAILS OF EXISTING SURFACE



CUT/FILL SUMMARY

- CUT FILL SUMMARY BELOW ASSUMES 200mm TOP SOIL STRIPPING PRIOR TO EXCAVATION OF CUT OR PLACEMENT OF FILL.

- NO ALLOWANCE MADE FOR UNSUITABLE MATERIAL THAT MAY BE ENCOUNTERED ON SITE.

SUMMARY

CUT= - 5,375 cu.m
FILL= - 3,854 cu.m

TOTAL EXPORT OF FILL
FROM SITE = - 1,521 cu.m

SURFACE ELEVATION DATA

NUMBER	MINIMUM ELEVATION	MAXIMUM ELEVATION	COLOR
1	-5.00	-4.00	
2	-4.00	-3.00	
3	-3.00	-2.00	
4	-2.00	-1.00	
5	-1.00	0.00	
6	0.00	1.00	
7	1.00	2.00	
8	2.00	3.00	
9	3.00	3.81	

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	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25			Checked	A.C.			
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25			Approved	A.C.	Dwg Status APPROVAL	Local Authority WOLLONGONG	
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25							

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REVISIONS

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F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25



engineering

landscape

design

flooding

management

WOLLONGONG - HEAD OFFICE
Shop 1, 18 Arrow Avenue
Figtree NSW 2525
PO Box 506
Figtree NSW 2525
T 61 2 4227 4233
F 61 2 4227 4133
E info@siteplus.com.au

Height Datum	A.H.D.
Drawn	I.B.
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Approved	A.C.

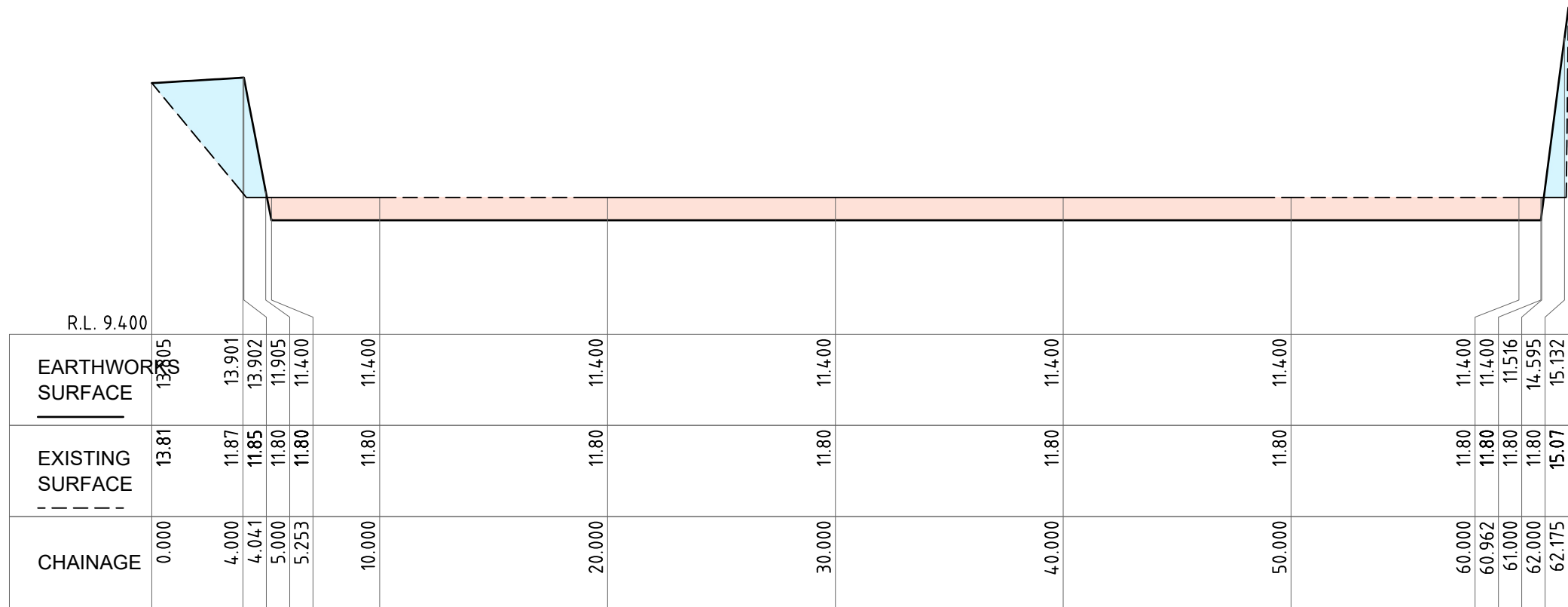
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C/-	
CHESTER PROJECT MANAGEMENT	
Dwg Status	APPROVAL
Local Authority	WOLLONGONG

Dwg Title	
PROPOSED RESIDENTIAL DEVELOPMENT	
27 RAILWAY STREET, CORRIMAL	
SITE SECTIONS 1	

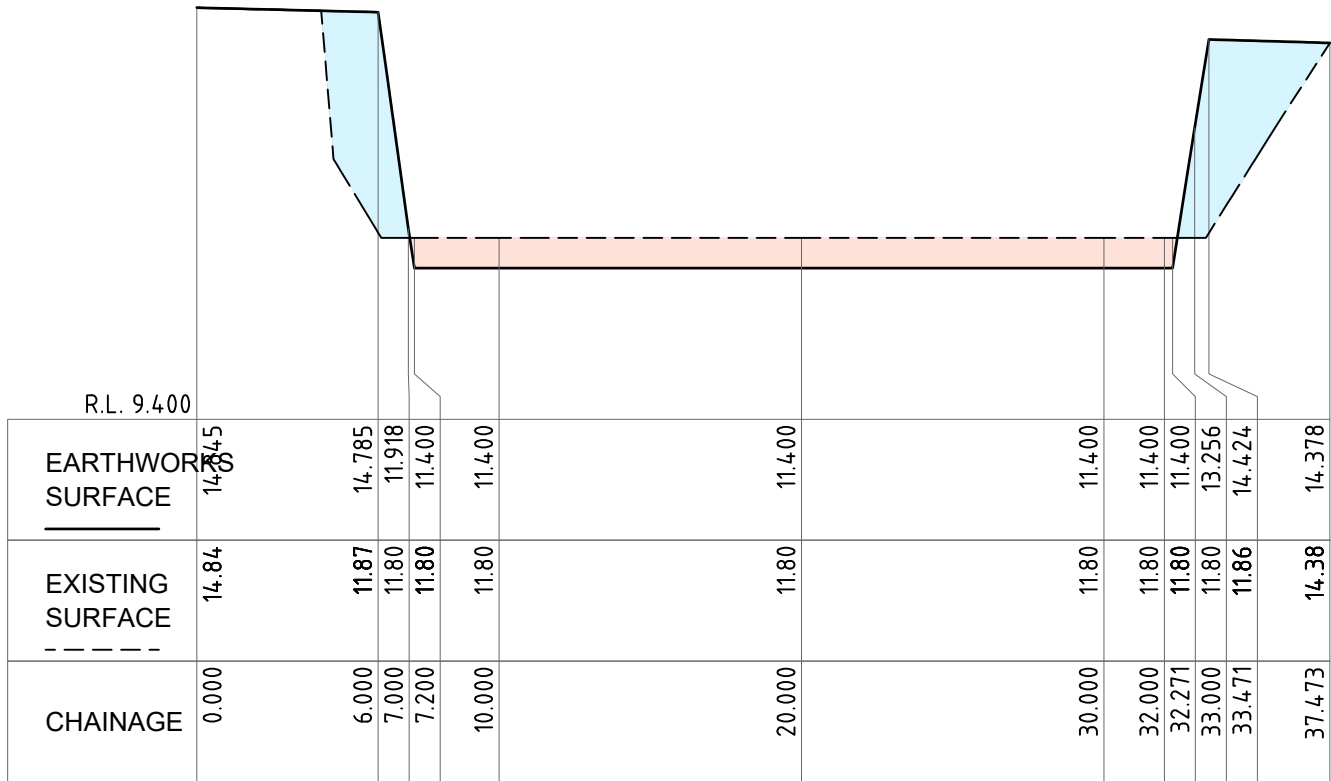
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Sheet No		
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Scale		
1:250 @ A1		
Date	Rev	
03.11.25	F	A1

LEGEND

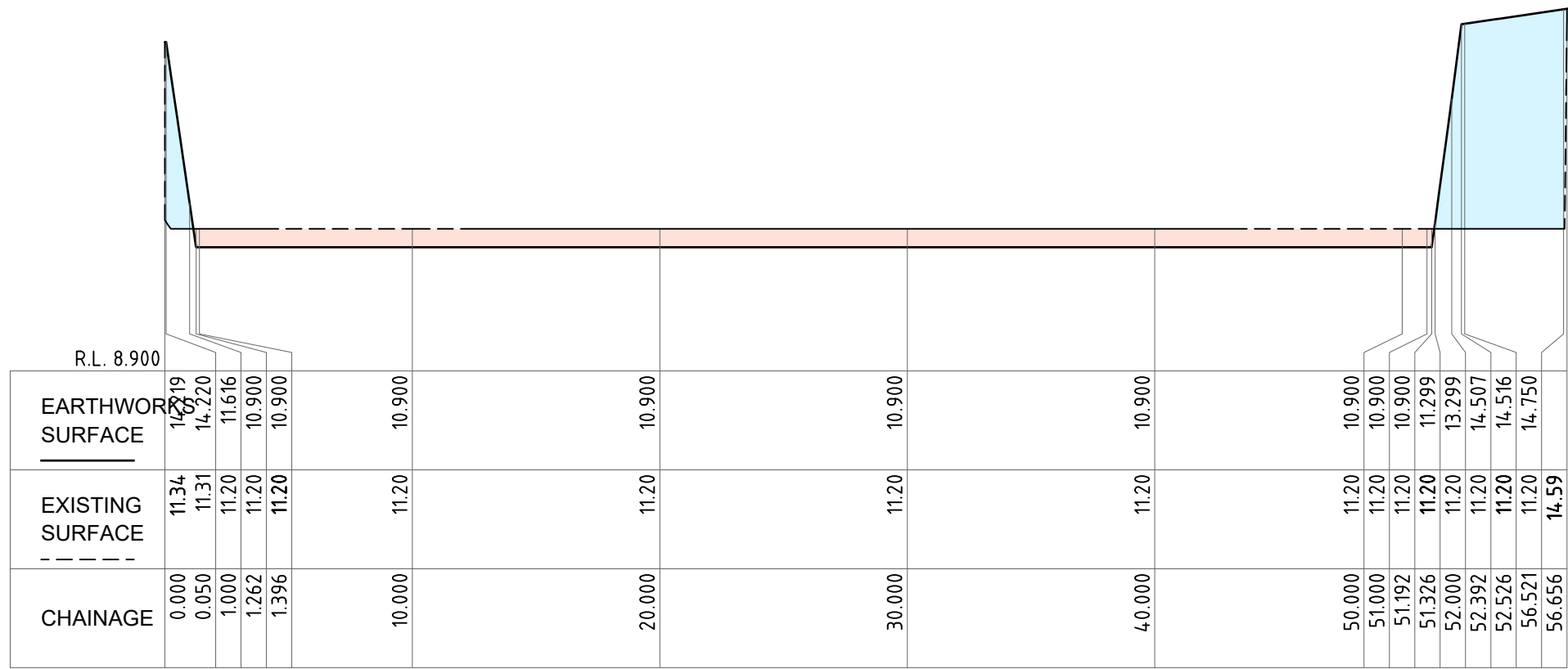
	PROPOSED CUT.
	PROPOSED FILL.



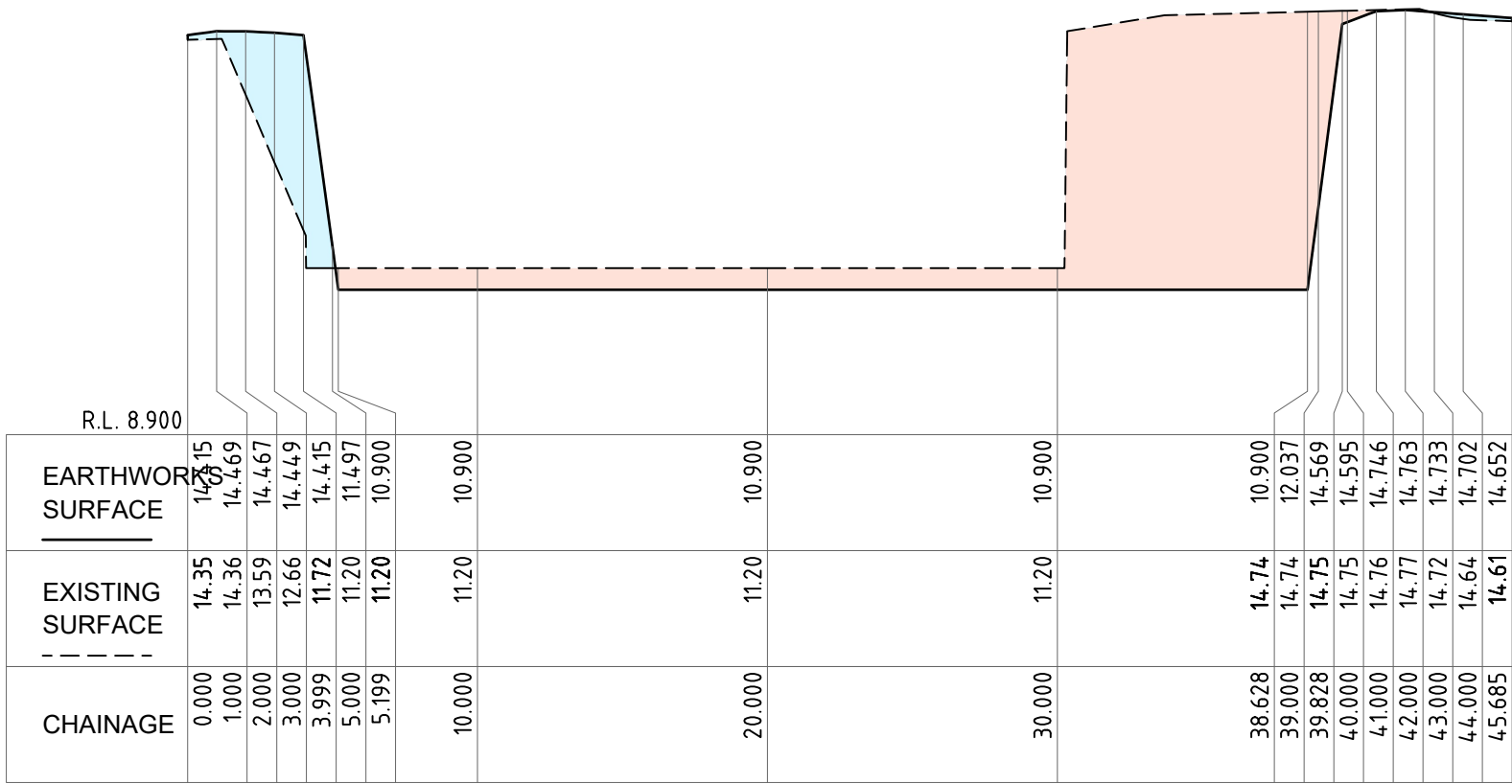
LONGITUDINAL SECTION
Section A-A Ch 0.000 to Ch 62.175
SCALES: HORIZONTAL 1:250 VERTICAL 1:100



LONGITUDINAL SECTION
Section 1-1 Ch 0.000 to Ch 37.473
SCALES: HORIZONTAL 1:250 VERTICAL 1:100



LONGITUDINAL SECTION
Section B-B Ch 0.000 to Ch 56.656
SCALES: HORIZONTAL 1:250 VERTICAL 1:100



LONGITUDINAL SECTION
Section 2-2 Ch 0.000 to Ch 45.685
SCALES: HORIZONTAL 1:250 VERTICAL 1:100

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REVISIONS

No.	DESCRIPTION
B	ADJUSTED PITS FOR B2.1 & B2.2
C	REVISED TO UPDATED ARCH
D	REVISED TO UPDATED ARCH
E	REVISED EXISTING SURFACE
F	SUBSTATION EASEMENT

DRN	APP	DATE
I.B.	A.C.	19.09.25
I.B.	A.C.	26.09.25
I.B.	A.C.	14.10.25
I.B.	A.C.	03.11.25
I.B.	a.c.	03.11.25



WOLLONGONG - HEAD OFFICE
Shop 1, 18 Arrow Avenue
Figtree NSW 2555
PO Box 506
Figtree NSW 2525
T 61 2 4227 4233
F 61 2 4227 4133
E info@siteplus.com.au

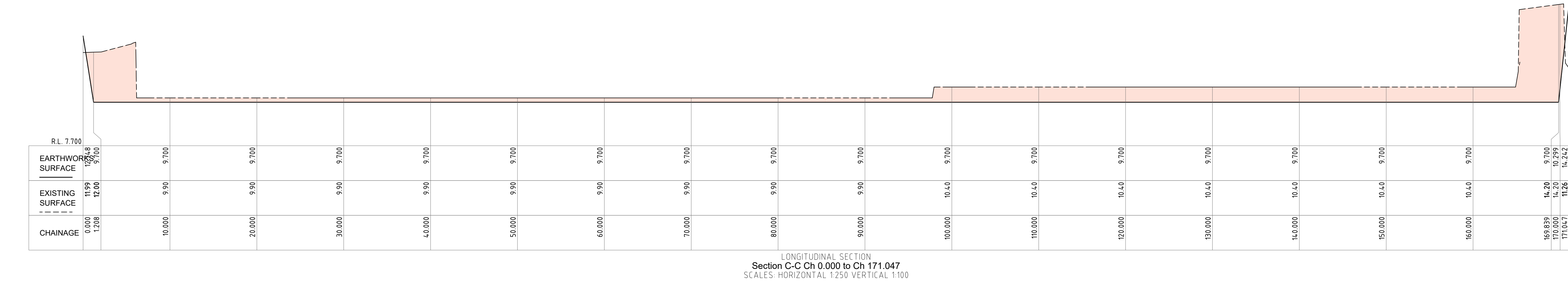


Height Datum	A.H.D.
Drawn	I.B.
Designed	I.B.
Checked	A.C.
Approved	A.C.

Client Title	
LEGACY PROPERTY GROUP	
C/-	
CHESTER PROJECT MANAGEMENT	
Dwg Status	APPROVAL
Local Authority	WOLLONGONG

Dwg Title	
PROPOSED RESIDENTIAL DEVELOPMENT	
27 RAILWAY STREET, CORRIMAL	
SITE SECTIONS 2	

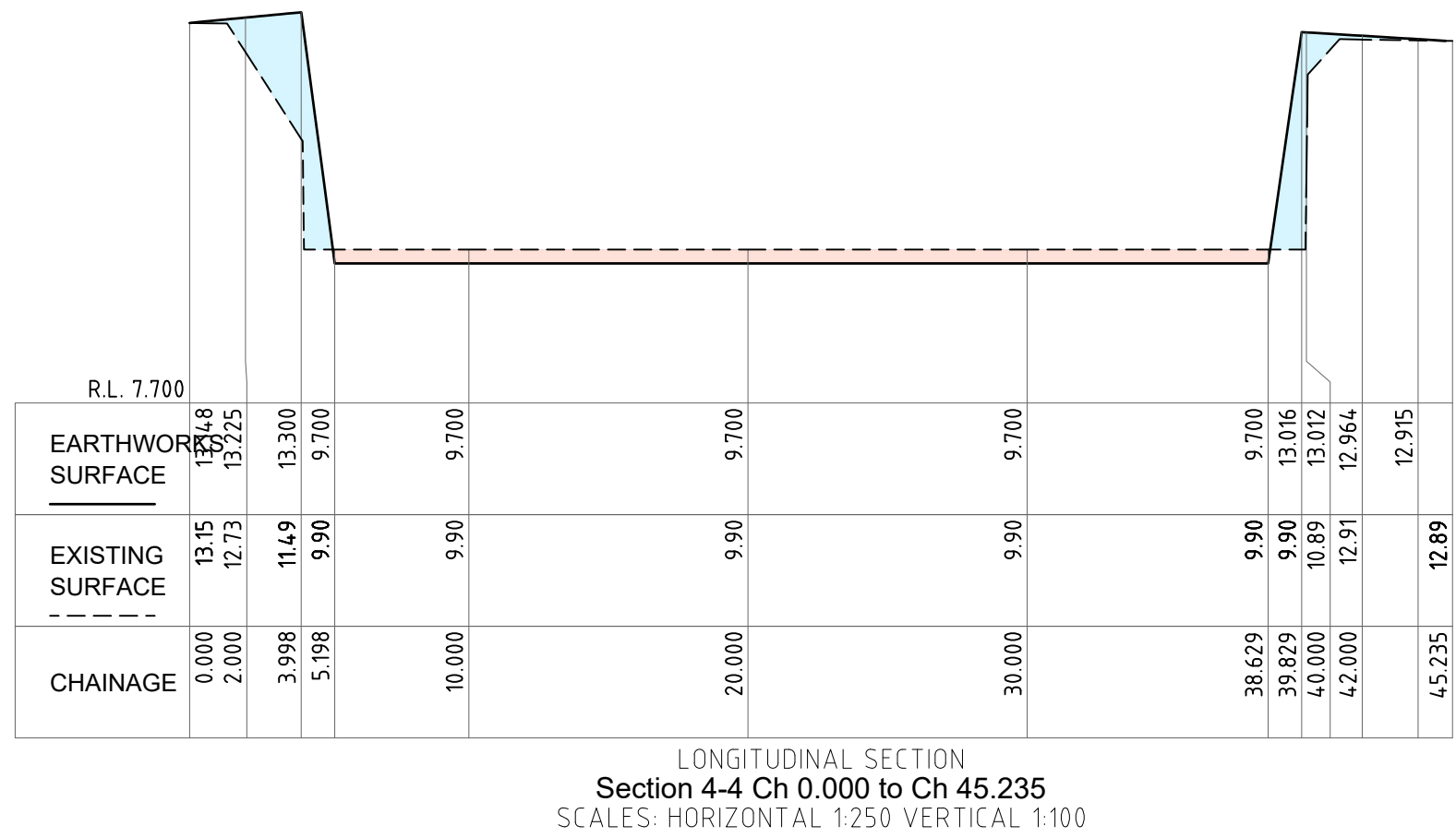
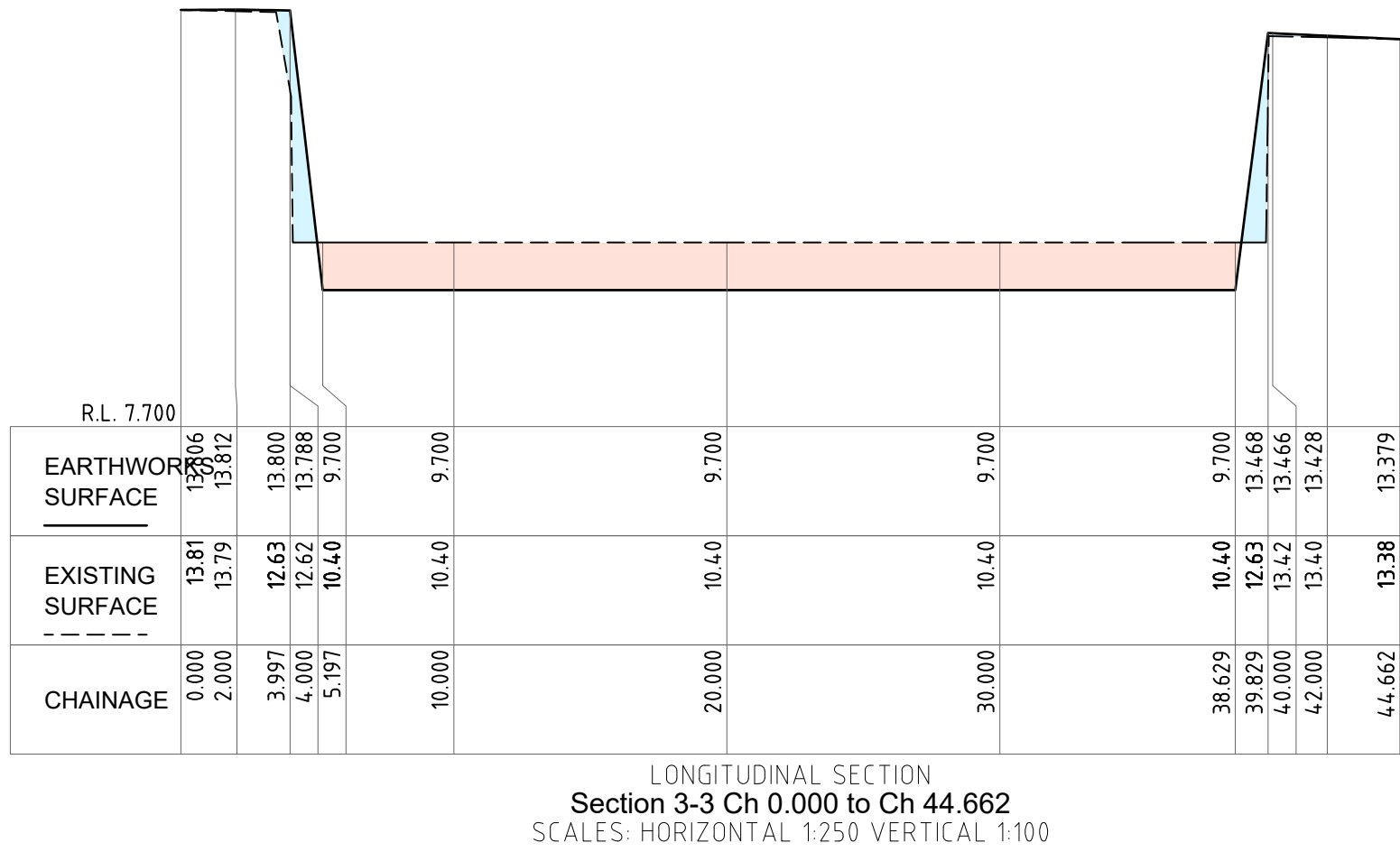
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Sheet No	
Sheet 05 of 27	
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Date	Rev
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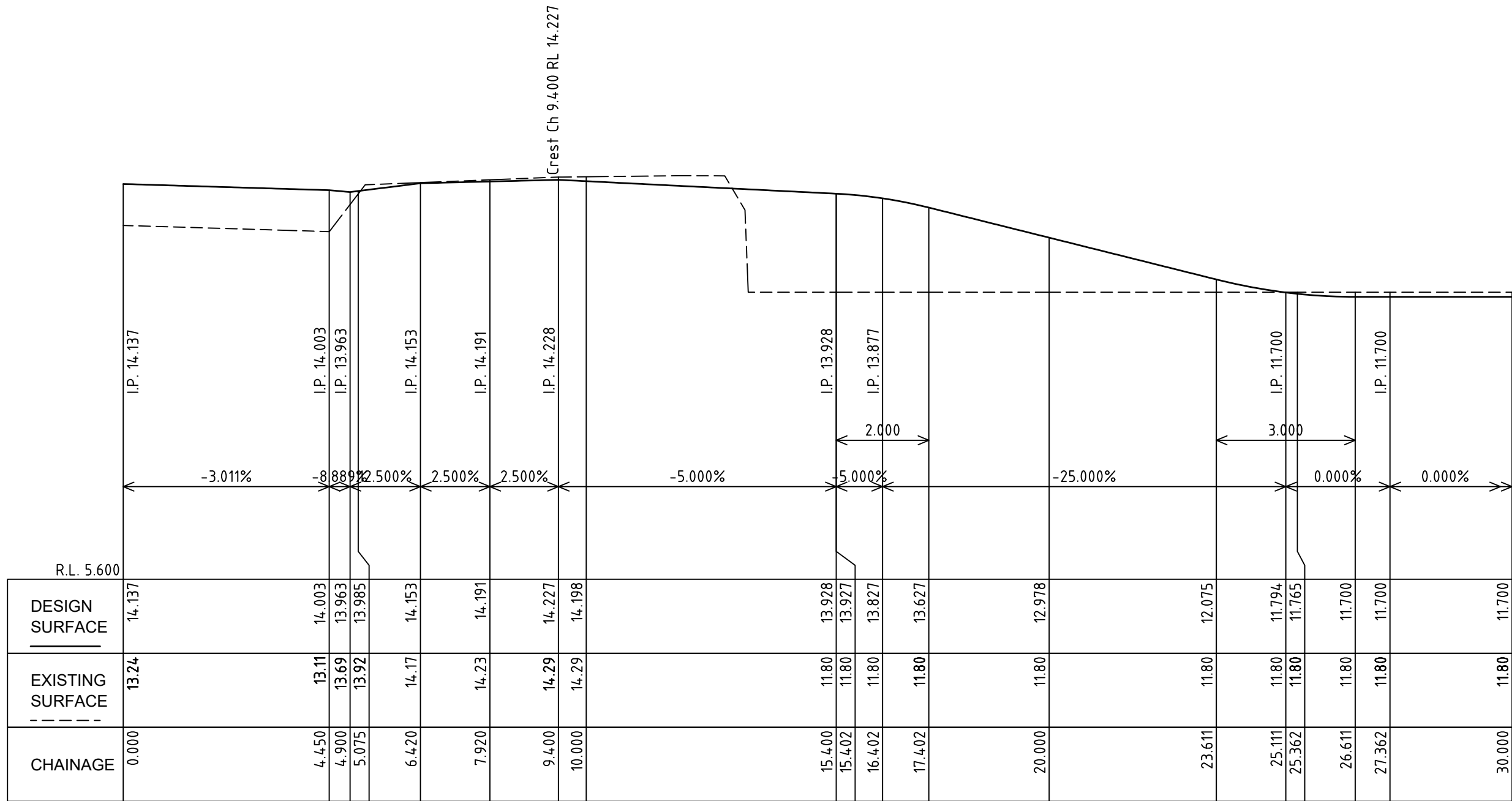
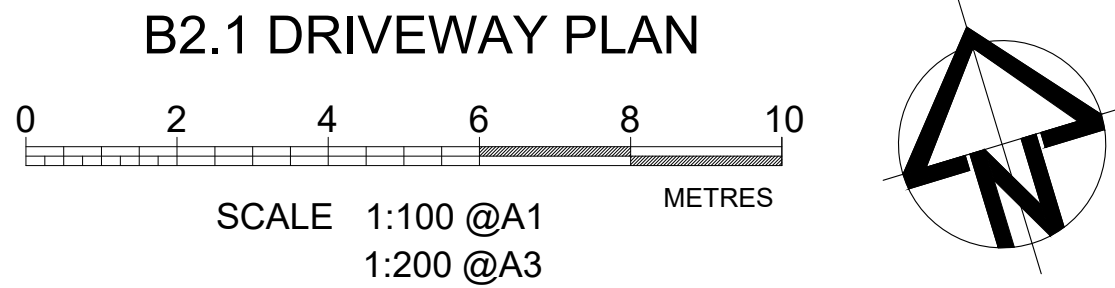
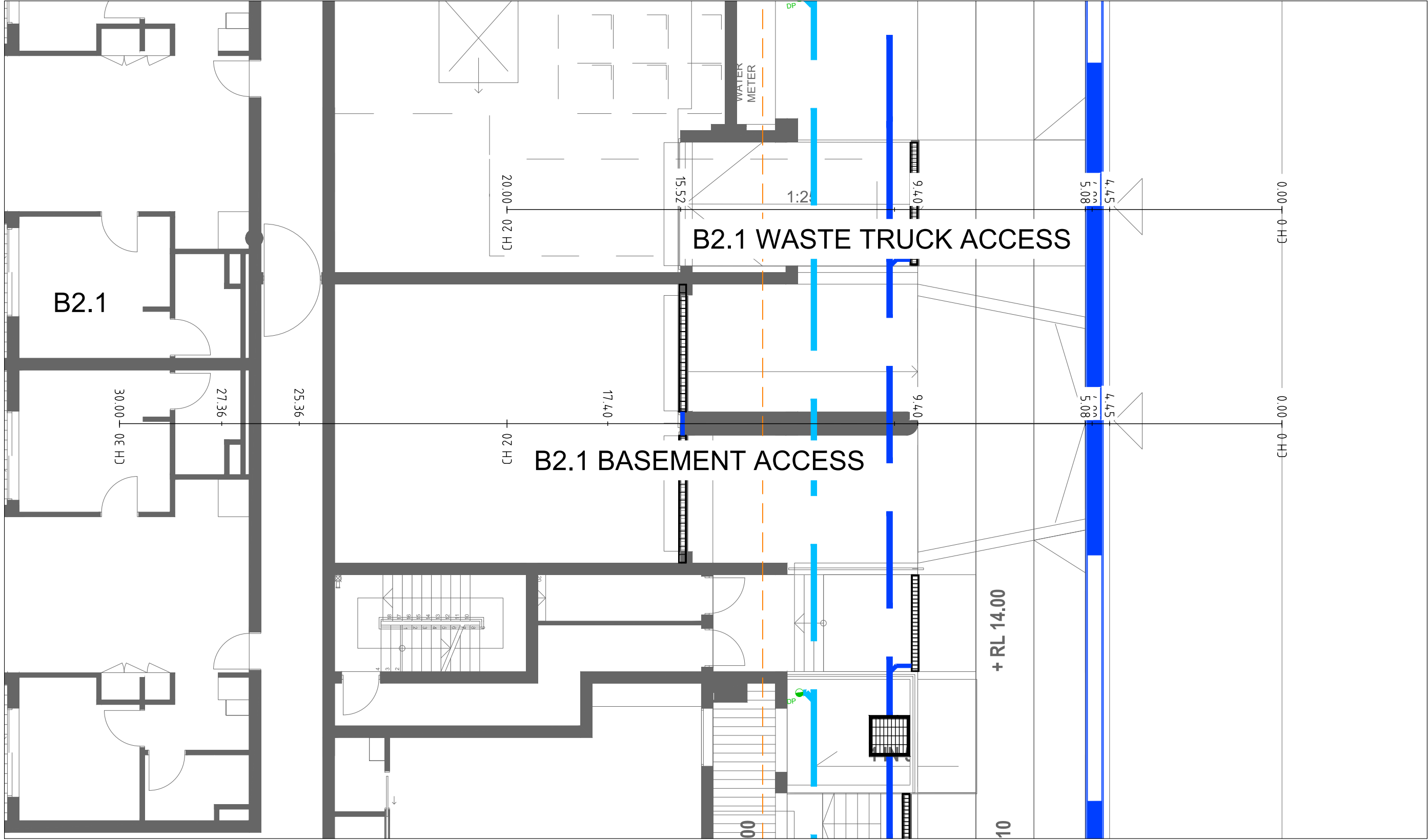
LEGEND

PROPOSED CUT.

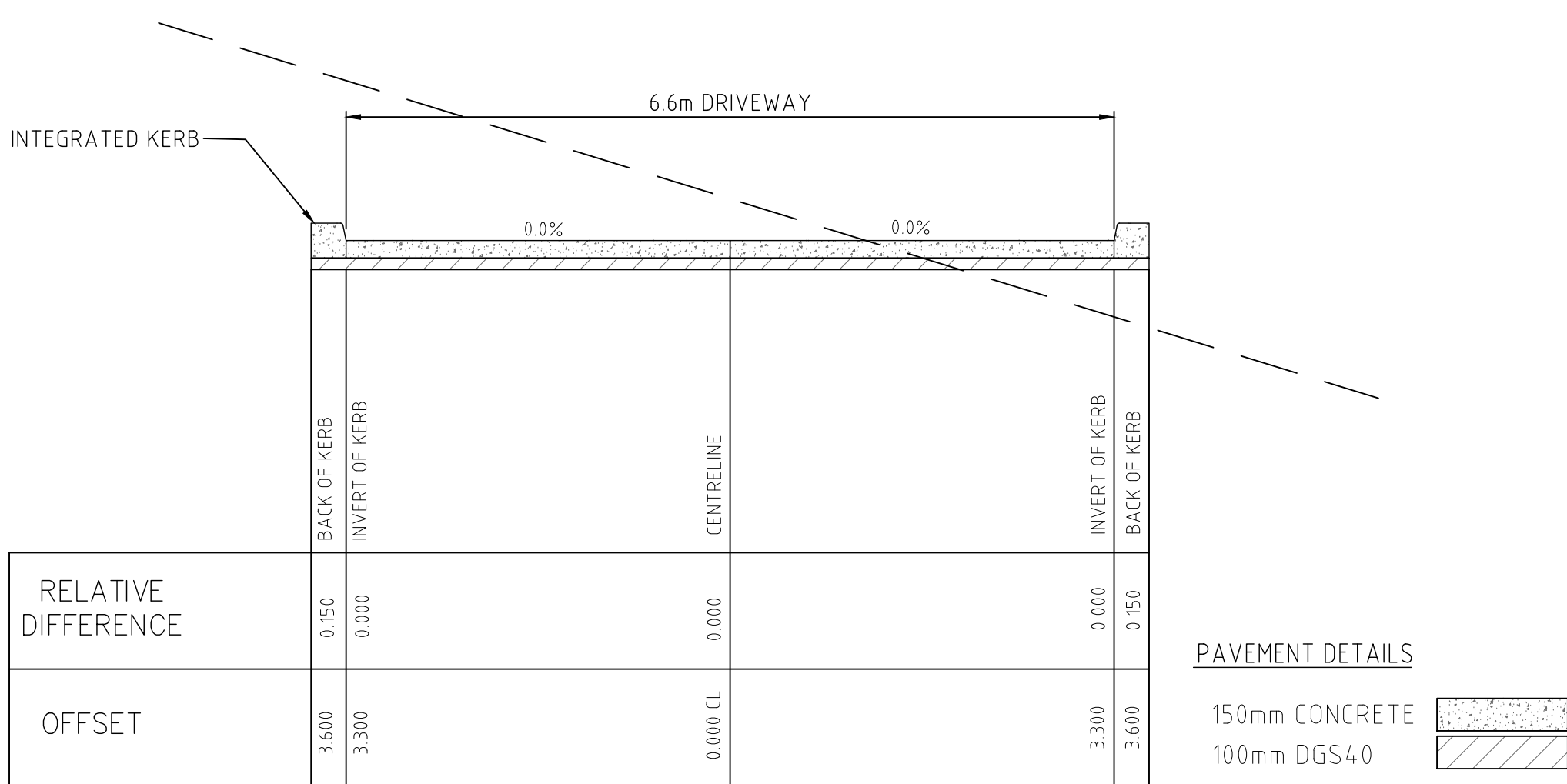
PROPOSED FILL.



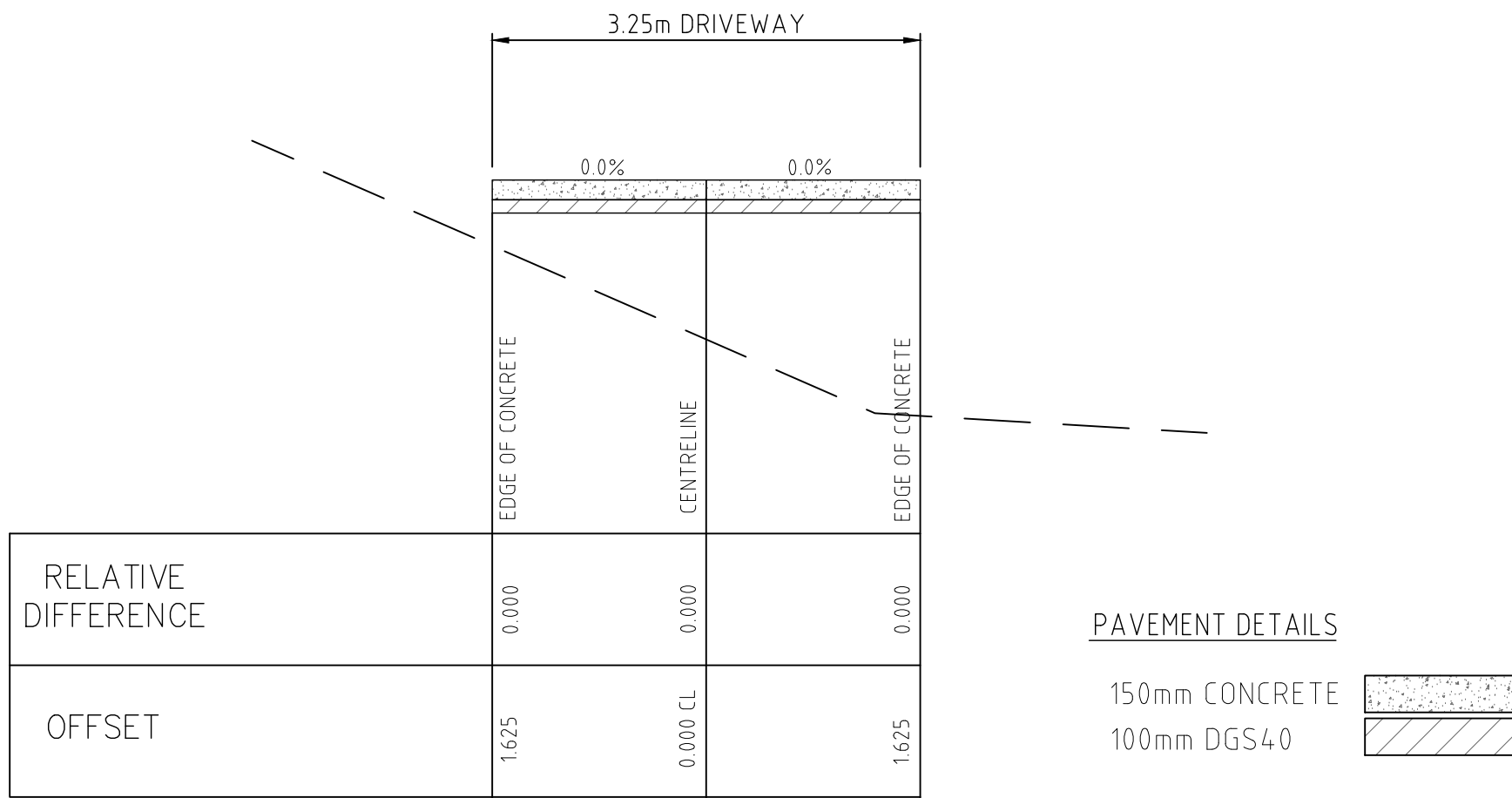
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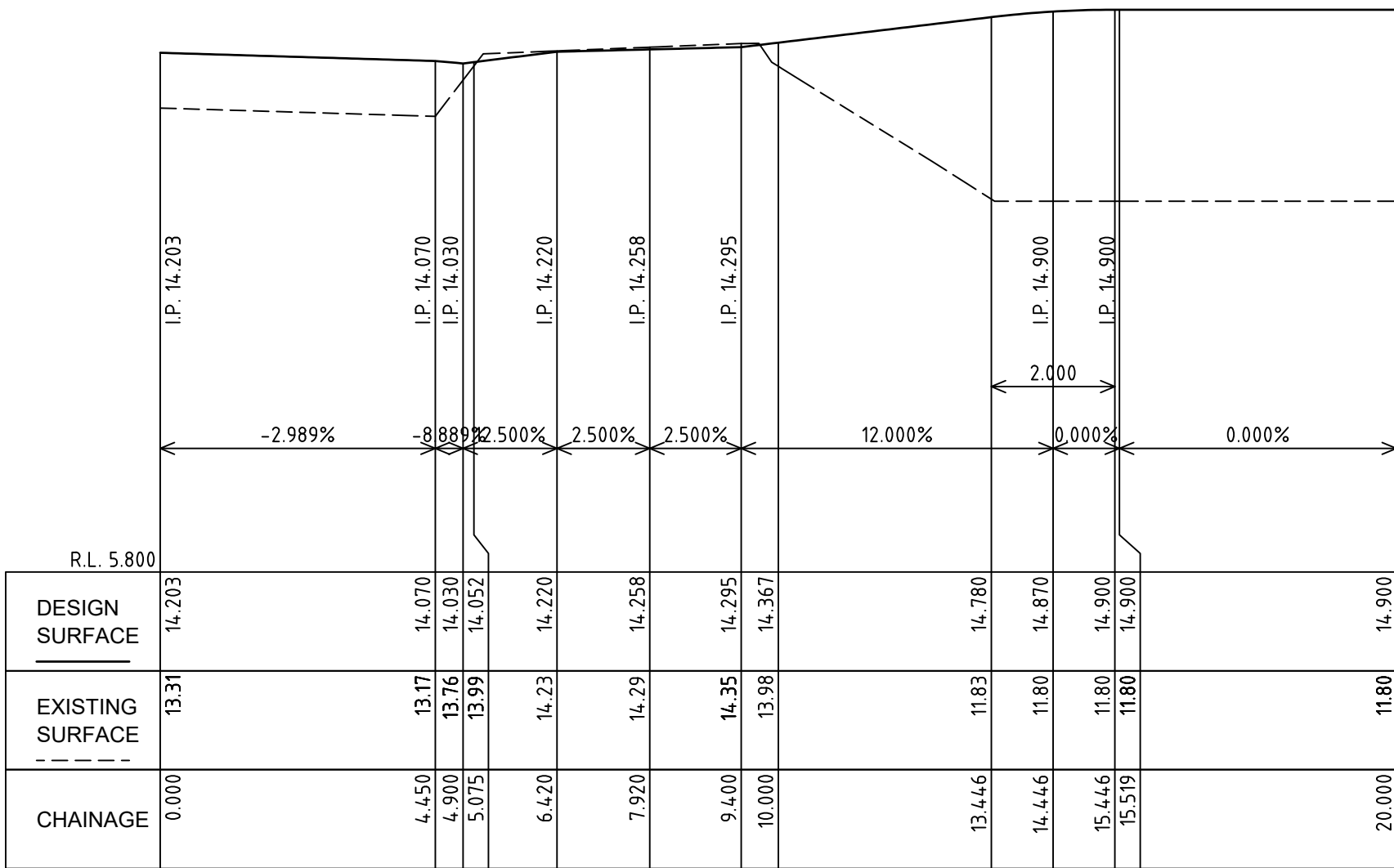
LONGITUDINAL SECTION
CL B2.1 Basement Driveway Ch 0.000 to Ch 30.000
SCALES: HORIZONTAL 1:100 VERTICAL 1:100



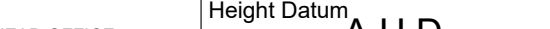
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TYPICAL CROSS SECTION
SCALE 1:50

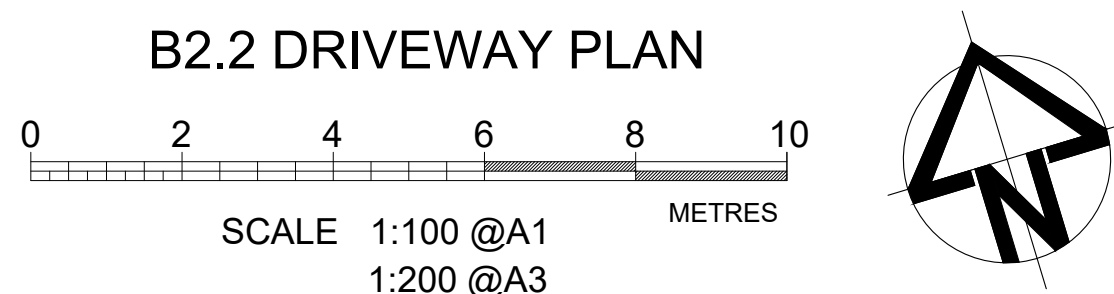


B2.1 WASTE TRUCK ACCESS
TYPICAL CROSS SECTION
SCALE 1:50

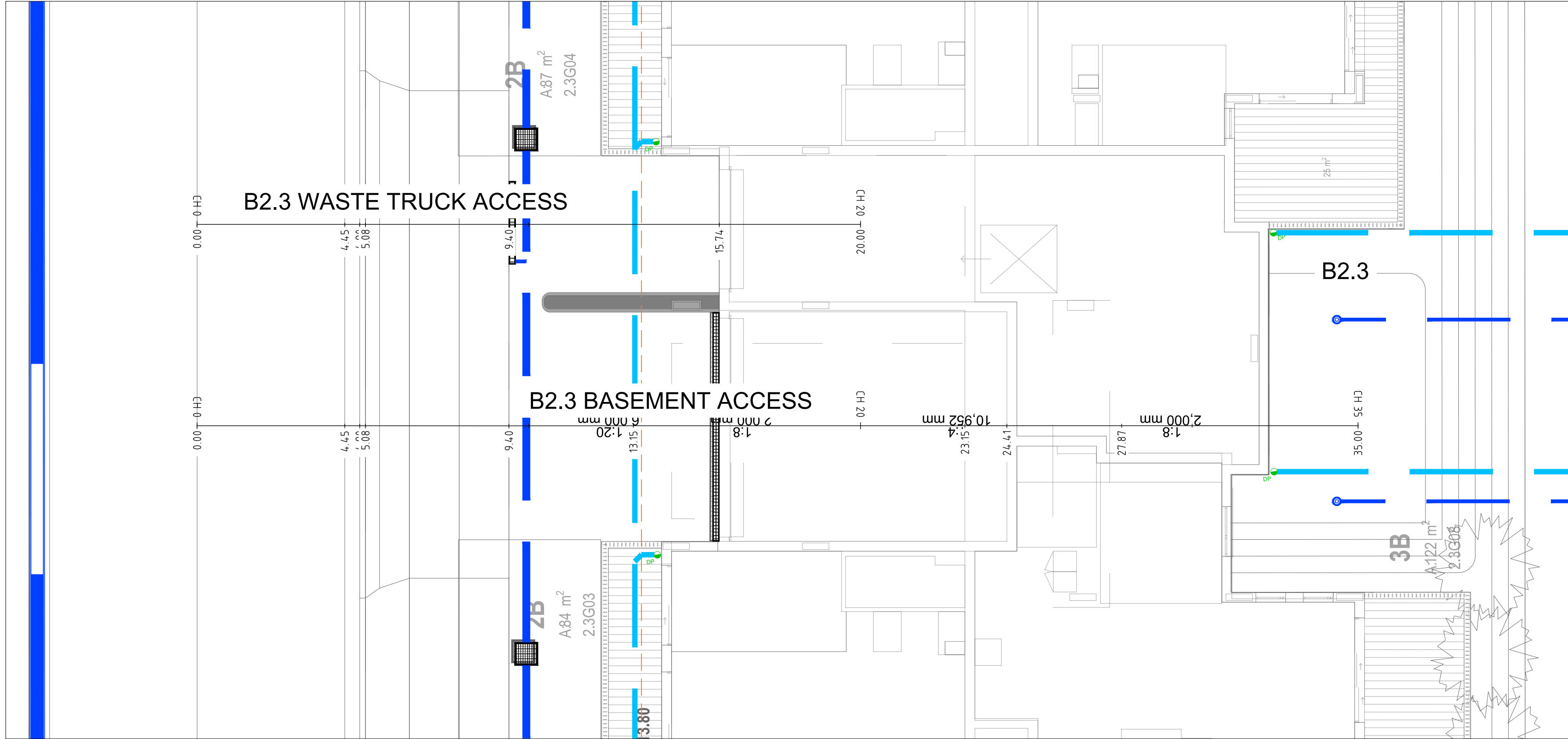


LONGITUDINAL SECTION
CL B2.1 Truck Access Ch 0.000 to Ch 20.000
SCALES: HORIZONTAL 1:100 VERTICAL 1:100

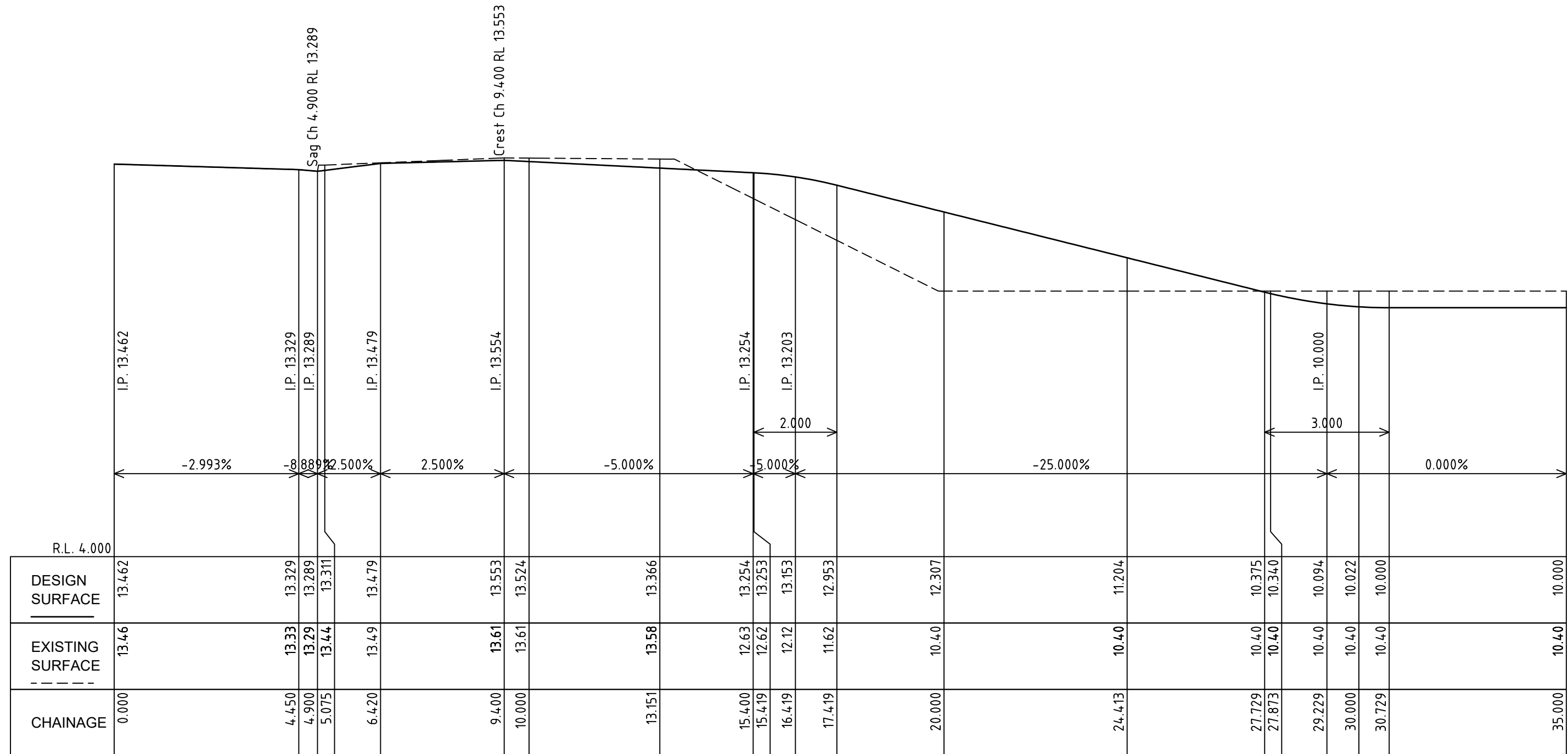
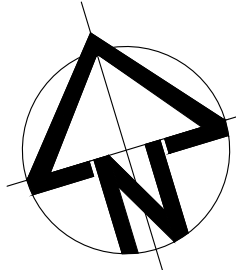
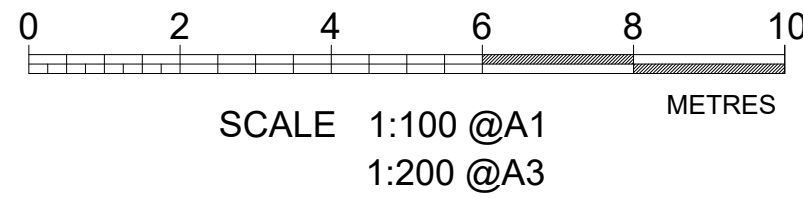
REVISIONS	No.	DESCRIPTION	DRN	APP	DATE	 Site Plus Pty Ltd ABN 73 104 315 095	 engineering landscape design flooding management	WOLLONGONG - HEAD OFFICE Shop 1, 18 Arrow Avenue Figtree NSW 2525 PO Box 506 Figtree NSW 2525 T 61 2 4227 4233 F 61 2 4227 4133 E info@siteplus.com.au	Height Datum A.H.D.	Client Title LEGACY PROPERTY GROUP	Dwg Title PROPOSED RESIDENTIAL DEVELOPMENT	Ref & Dwg No 25152.DA.C06		
	B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25			Drawn I.B.	C/- CHESTER PROJECT MANAGEMENT	APPROVAL	Local Authority WOLLONGONG	B2.1 DRIVEWAYS	Sheet No 06 of 27	Scale AS NOTED @ A1
	C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25			Designed I.B.						
	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25			Checked A.C.						
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25			Approved A.C.						
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25									



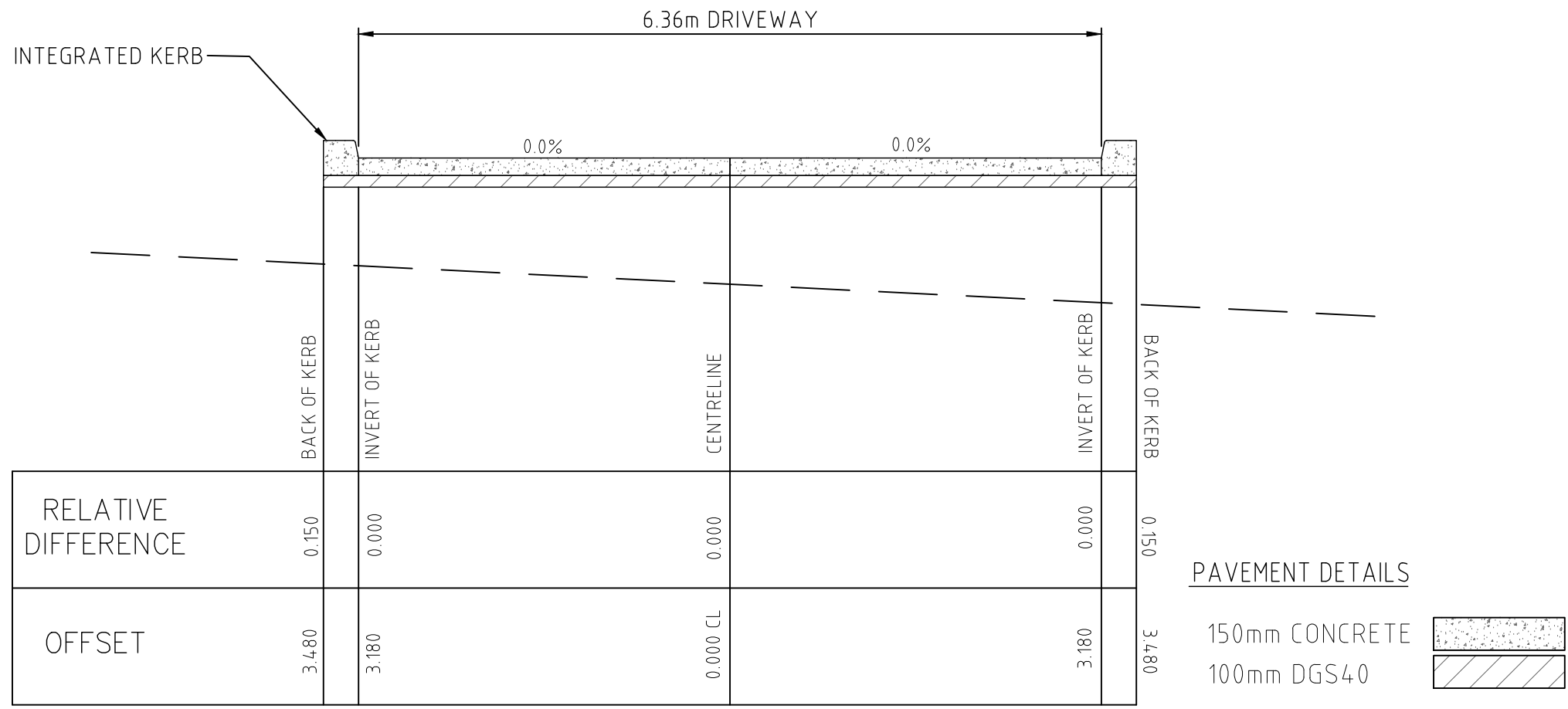
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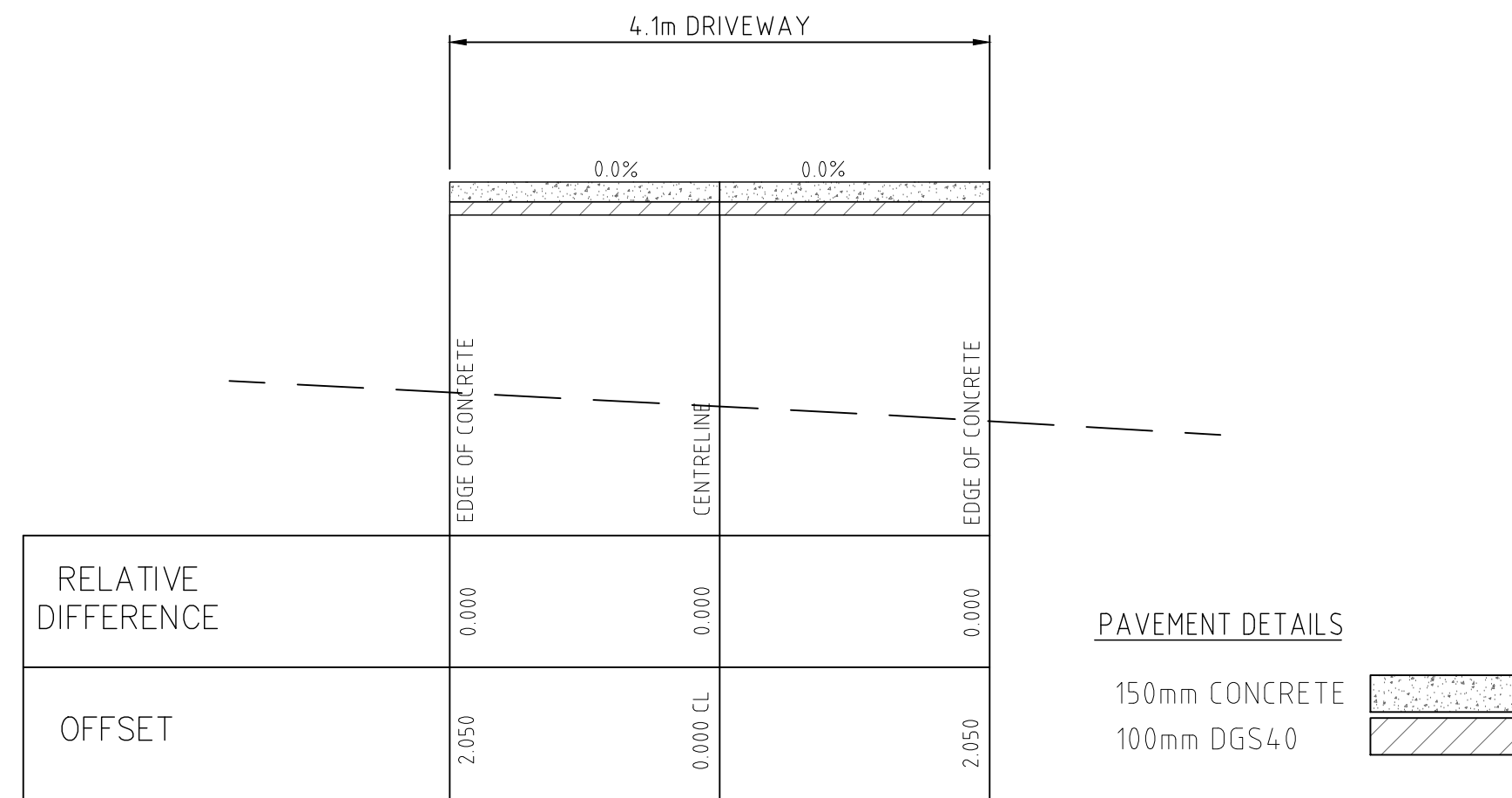
B2.3 DRIVEWAY PLAN



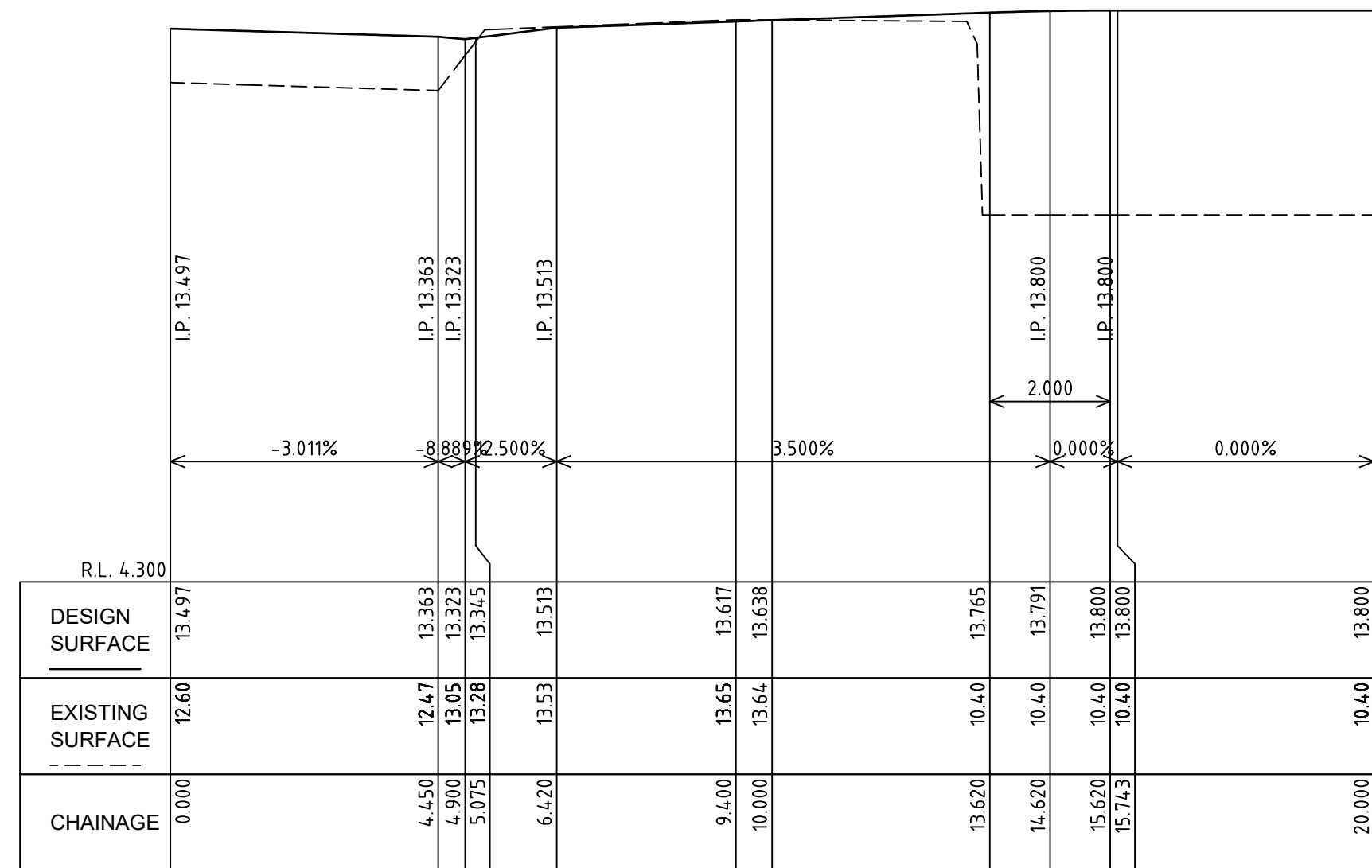
LONGITUDINAL SECTION
CL B2.3 & B2.4 Basement Driveway Ch 0.000 to Ch 35.000
SCALES: HORIZONTAL 1:100 VERTICAL 1:100



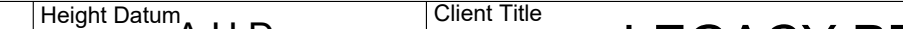
B2.3 BASEMENT ACCESS
TYPICAL CROSS SECTION
SCALE 1:50

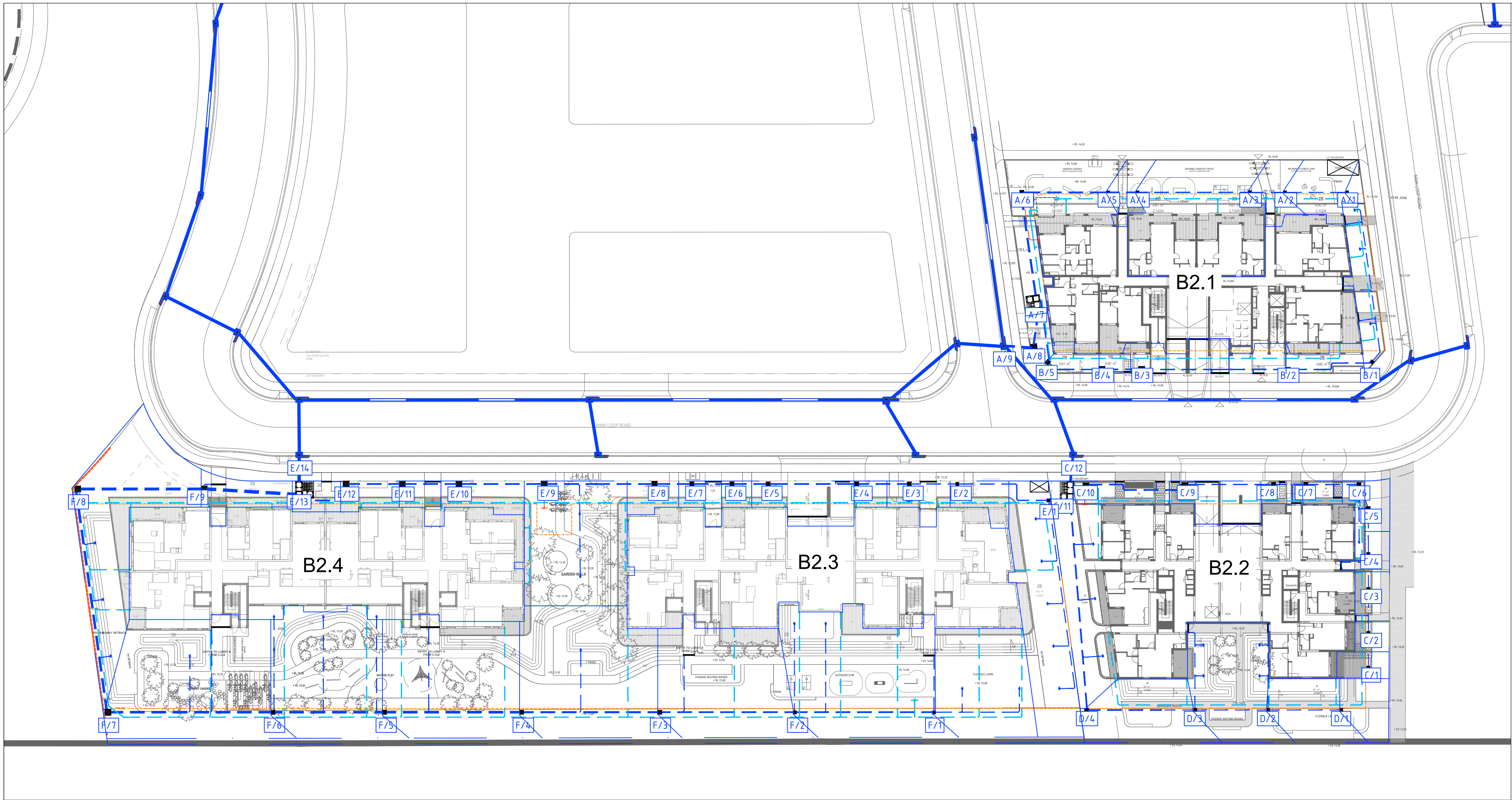


B2.3 WASTE TRUCK ACCESS
TYPICAL CROSS SECTION
SCALE 1:50



LONGITUDINAL SECTION
CL B2.3 Truck Access Ch 0.000 to Ch 20.000
SCALES: HORIZONTAL 1:100 VERTICAL 1:100

REVISIONS	No.	DESCRIPTION	DRN	APP	DATE	 Site Plus Pty Ltd ABN 73 104 315 095	WOLLONGONG - HEAD OFFICE Shop 1, 18 Arrow Avenue Figtree NSW 2525 PO Box 506 Figtree NSW 2525 T 61 2 4227 4253 F 61 2 4227 4133 E info@siteplus.com.au	Height Datum	A.H.D.	Client Title	LEGACY PROPERTY GROUP	Dwg Title	PROPOSED RESIDENTIAL DEVELOPMENT	Ref & Dwg No	25152.DA.C08						
	B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25			Drawn	I.B.	C/- CHESTER PROJECT MANAGEMENT	Dwg Status	APPROVAL	Local Authority	WOLLONGONG	B2.3 DRIVEWAYS	Sheet No	08 of 27				
	C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25			Designed	I.B.							Scale		AS NOTED @ A1			
	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25			Checked	A.C.							Date	03.11.25		Rev	F	A1
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25			Approved	A.C.												
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25																
						 engineering landscape design flooding management															

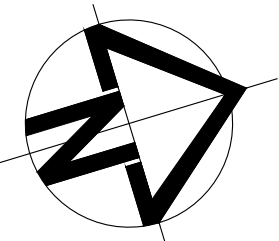


REFER TO DRAINS MODEL FOR MORE DETAILS

SITE DRAINAGE PLAN



SCALE 1:500 @A1
1:1000 @A3



NOTES:

- ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL'S WORKS AND DRAINAGE SPECIFICATIONS
- THE CONTRACTOR IS TO LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST IF NECESSARY.
- THE CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJOINING LANDS WITHOUT THE PERMISSION OF THE SUPERINTENDENT.
- ALL NEW WORKS TO MAKE SMOOTH CONNECTION TO EXISTING CONDITIONS.
- ALL PIPES ARE TO BE 100mm U.P.V.C. ON 1% MINIMUM GRADE U.N.O. AND TO HAVE MIN 200mm COVER.
- MINIMUM SLOPE AS PER AS3500.3.2-1998:
DN 100 1.0%,
DN 150 1.0%,
DN 225 0.5%,
DN 375 0.5%
- THE CONTRACTOR IS TO MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
- ALL IMPORTED FILL TO BE USED TO SUPPORT GROUND SLABS TO BE COMPACTED TO A MINIMUM LEVEL OF COMPACTING OF 98% OF MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +- 2% OF OPTIMUM (AS1289.5.1.1)
- ALL DOWNPIPES ARE SHOWN DIAGRAMMATICALLY. POSITION OF DOWNPIPES ARE TO BE CONFIRMED ON SITE USING THE WORKING DRAWINGS.
- THE CONTRACTOR IS TO LOCATE AND LEVEL ALL EXISTING DRAINAGE PITS AND PIPES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND THE CONSTRUCTION IS TO COMMENCE FROM THE DOWNSTREAM PIT AND STRUCTURES.

ALL DRAINAGE LINES ARE TO BE A MINIMUM OF $\phi 100\text{mm}$ @ 1% UNLESS NOTED OTHERWISE.

ALL PIPES AND GUTTERS SIZED FOR STORM EVENTS UP TO AND INCLUDING THE 10YR ARI. ALL PIPES TO BE $\phi 100\text{mm}$ SEWER GRADE uPVC U.N.O.

SERVICES SHOWN ARE INDICATIVE ONLY. CONTRACTOR SHALL CONFIRM ALL SERVICE LOCATIONS AND DEPTH PRIOR TO EXCAVATION.

ALL DRAINAGE LINES, BENDS AND PITS ARE TO BE SEALED.

ALL PITS TO HAVE HEELGUARD GRATES OR SIMILAR

LEGEND PROPOSED

- STORMWATER PIPE
- CHARGED PIPES
- 200mm GRATED DRAIN
- GRATED PIT
- JUNCTION PIT
- KERB INLET PIT
- BASEMENT OUTLINE
- DESIGN SPOT LEVEL
- CONTOURS
- KERB ONLY
- TRUFLO RWO (DETAILS BELOW)
- DOWNPIPE

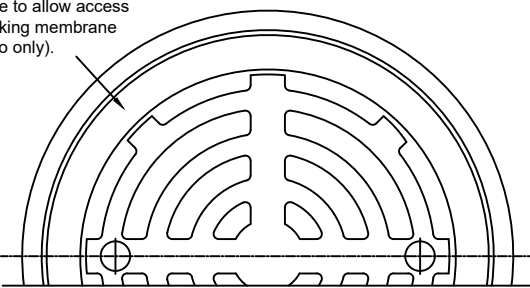
LEGEND EXISTING

- STORMWATER PIPE
- STORMWATER PIT
- KERB INLET PIT
- WATER LINE
- SEWER LINE
- TELSTRAL LINE
- EXISTING SPOT LEVEL
- EXISTING 100mm CONTOURS
- GAS LINE
- ELECTRICAL LINE

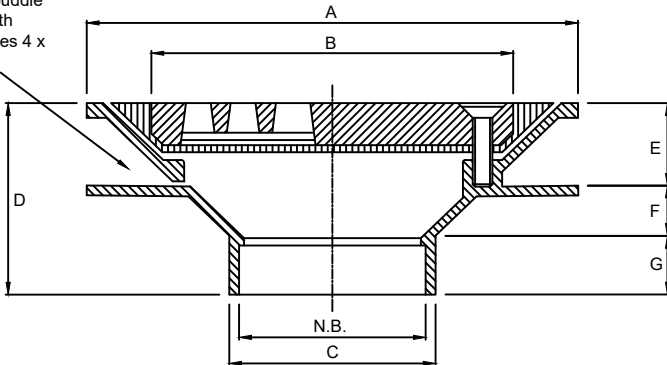
SPS Truflo & Superflo Flat Grate RWO
(With Membrane Clamping Ring)

Specification code:
TIA * F2 (CI body, gal. CI flat grate & aluminum membrane ring)
TIB * F2 (CI body, bronze flat grate & bronze membrane ring)
TBA * F2 (all-bronze assembly)
where * = 80, 100 or 150 n.b.
SIA150F2 (Superflo all-cast iron assembly 150 outlet only)

Membrane ring fastens to body independently of grate to allow access to sump without breaking membrane seal (100 & 150 Truflo only).



Integral puddle flange with weep holes 4 x places.

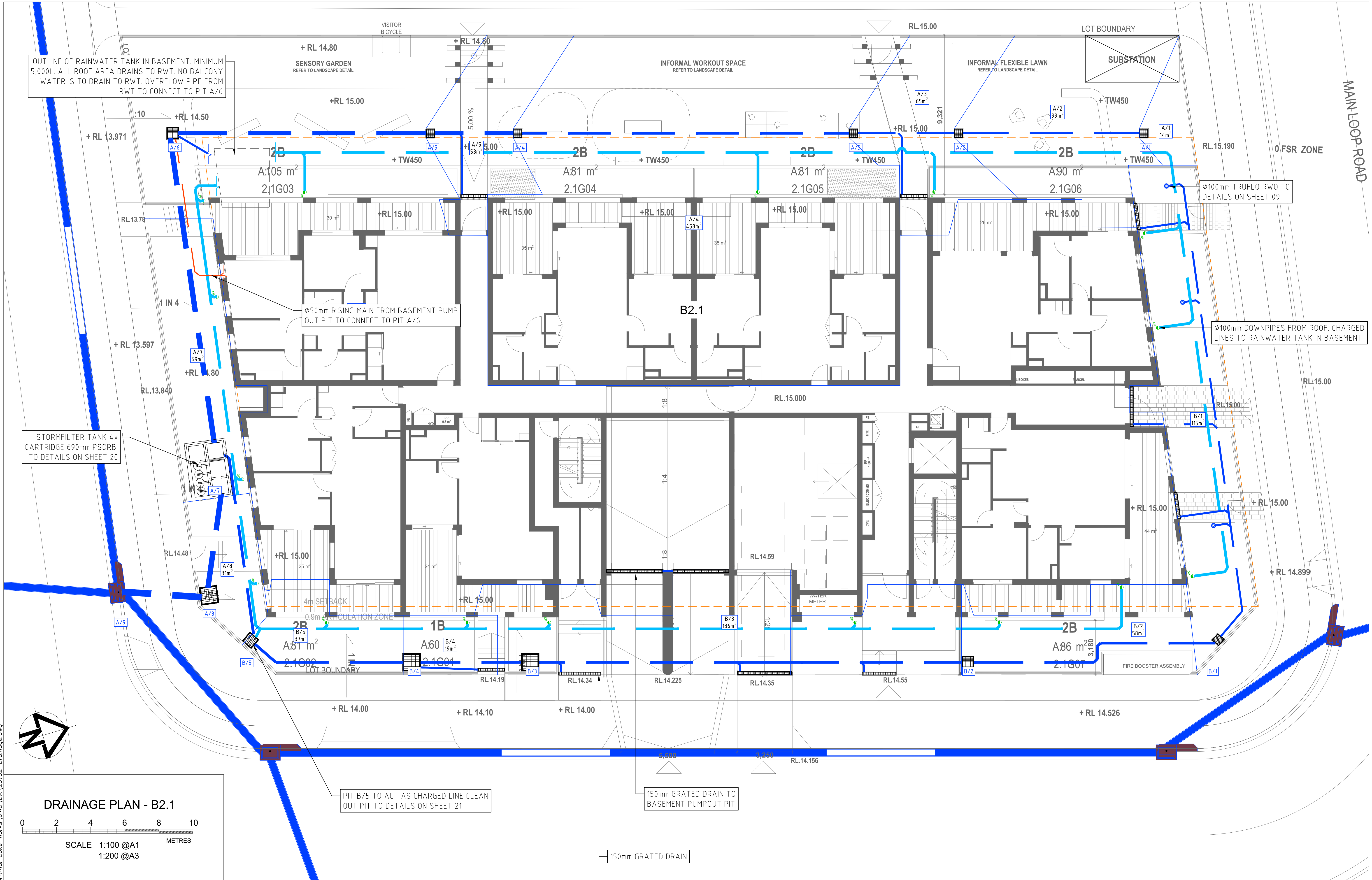


N.B.	A	B	C	D	E	F	G	Flow rate L/S
80	200	150	85	80	33	22	25	
100	260	200	110	95	44	26	25	8.2
150	260	200	160	80	48	4	28	10.2
SUPERFLO**	400	300	160	143	66	39	38	17

Speciality Plumbing Supplies Pty Ltd
Tel: (02) 9416 8031 Fax: (02) 9416 7614 E-mail: sps@bigpond.net.au

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REVISIONS	No.	DESCRIPTION	DRN	APP	DATE	 Site Plus Pty Ltd ABN 73 104 315 095 	WOLLONGONG - HEAD OFFICE Shop 1, 18 Arrow Avenue Figtree NSW 2525 PO Box 506 Figtree NSW 2525 T 61 2 4227 4233 F 61 2 4227 4133 E info@siteplus.com.au	Height Datum	A.H.D.	Client Title LEGACY PROPERTY GROUP C/- CHESTER PROJECT MANAGEMENT	Dwg Title	PROPOSED RESIDENTIAL DEVELOPMENT			Ref & Dwg No 25152.DA.C09			
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	C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25			Designed	I.B.					Date	03.11.25	Rev	F	A1
	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25			Checked	A.C.									
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25			Approved	A.C.									
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25													



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REVISIONS			
No.	DESCRIPTION	DRN	APP
B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.
C	REVISED TO UPDATED ARCH	I.B.	A.C.
D	REVISED TO UPDATED ARCH	I.B.	A.C.
E	REVISED EXISTING SURFACE	I.B.	A.C.
F	SUBSTATION EASEMENT	I.B.	a.c.



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Site Plus Pty Ltd ABN 73 104 315 095

engineering

landscape

design

flooding

management

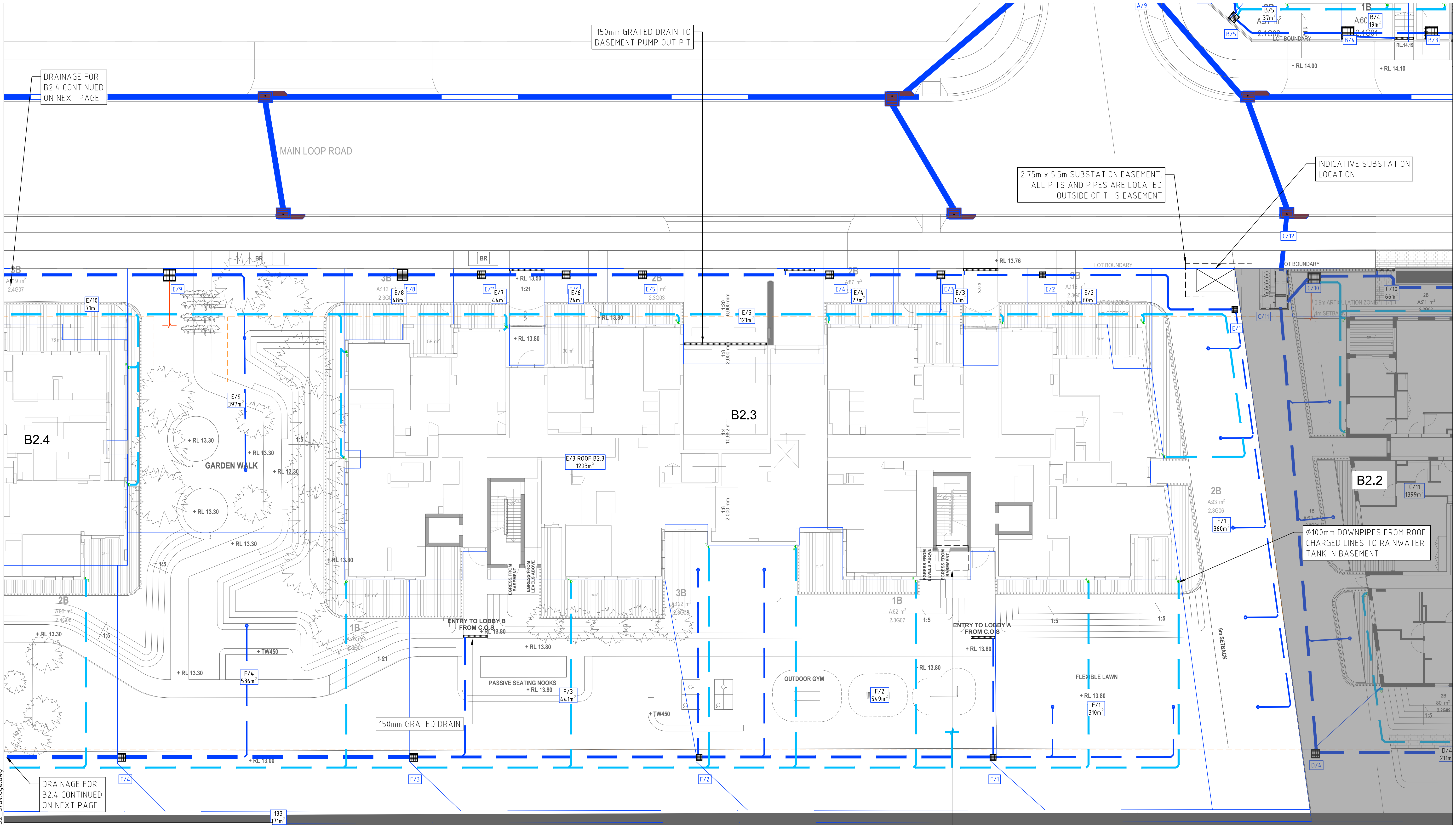
WOLLONGONG - HEAD OFFICE
Shop 1, 18 Arrow Avenue
Figtree NSW 2525
PO Box 506
Figtree NSW 2525
T 61 2 4227 4233
F 61 2 4227 4133
E info@siteplus.com.au

Height Datum	A.H.D.
Drawn	I.B.
Designed	I.B.
Checked	A.C.
Approved	A.C.

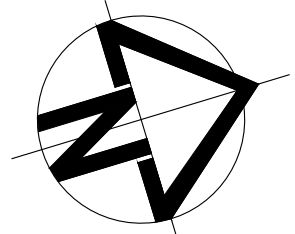
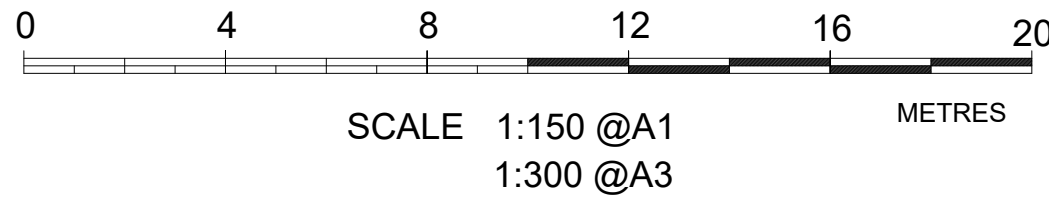
Client Title		LEGACY PROPERTY GROUP	
		C/-	
		CHESTER PROJECT MANAGEMENT	
Dwg Status	APPROVAL	Local Authority	WOLLONGONG

Dwg Title		PROPOSED RESIDENTIAL DEVELOPMENT	
		27 RAILWAY STREET, CORRIMAL	
		DRAINAGE PLAN 1 - B2.1	

Ref & Dwg No	25152.DA.C10
Sheet No	10 of 27
Scale	1:100 @ A1
Date	03.11.25
Rev	F
A1	



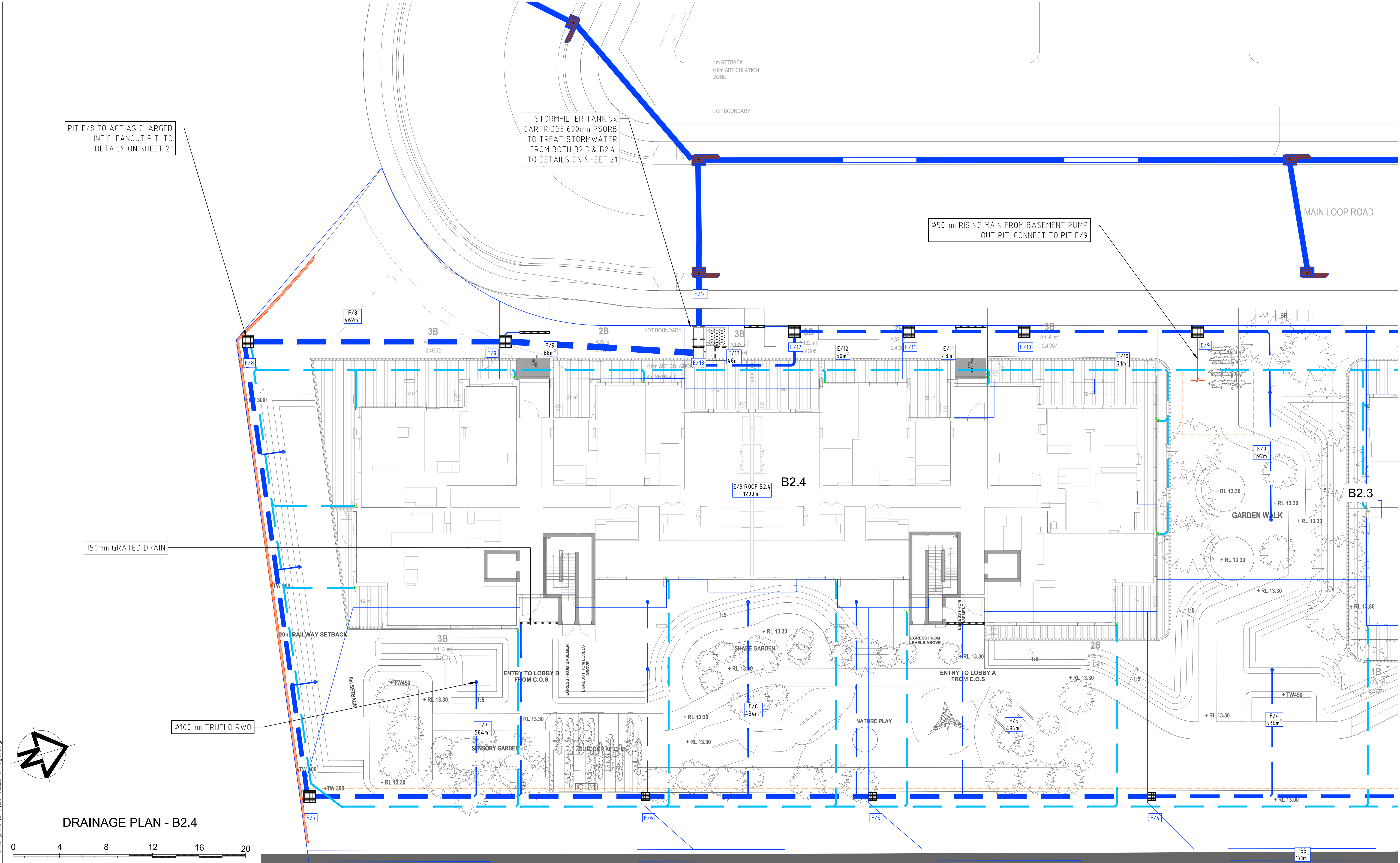
DRAINAGE PLAN - B2.3



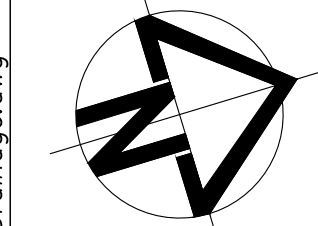
OUTLINE OF RAINWATER TANK IN BASEMENT. MINIMUM 5,000L. ALL ROOF AREA DRAINS TO RWT. NO BALCONY WATER IS TO DRAIN TO RWT. OVERFLOW PIPE TO CONNECT TO PIT E/3

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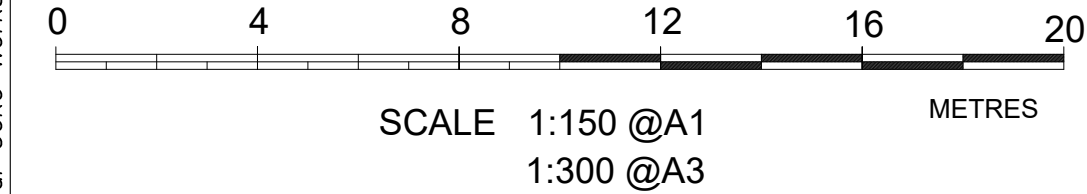
REVISIONS	No.	DESCRIPTION	DRN	APP	DATE	siteplus Site Plus Pty Ltd ABN 73 104 315 095 engineering landscape design flooding management	Height Datum	A.H.D.	Client Title	Dwg Title		Ref & Dwg No							
	B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25		WOLLONGONG - HEAD OFFICE Shop 1, 18 Arrow Avenue Figtree NSW 2525 PO Box 506 Figtree NSW 2525 T 61 2 4227 4233 F 61 2 4227 4133 E info@siteplus.com.au	Drawn	I.B.	LEGACY PROPERTY GROUP C/- CHESTER PROJECT MANAGEMENT	PROPOSED RESIDENTIAL DEVELOPMENT 27 RAILWAY STREET, CORRIMAL		25152.DA.C12						
	C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25			Designed	I.B.		Sheet No	12 of 27							
	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25			Checked	A.C.		Scale	1:150 @ A1							
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25			Approved	A.C.		Dwg Status	APPROVAL	Local Authority	DRAINAGE PLAN 3 - B2.3	Date	03.11.25	Rev	F	A1
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25														



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DRAINAGE PLAN - B2.4



REVISIONS		DESCRIPTION			DRN		APP		DATE		No.	
B		ADJUSTED PITS FOR B2.1 & B2.2			I.B.	A.C.	19.09.25					
C		REVISED TO UPDATED ARCH			I.B.	A.C.	26.09.25					
D		REVISED TO UPDATED ARCH			I.B.	A.C.	14.10.25					
E		REVISED EXISTING SURFACE			I.B.	A.C.	03.11.25					
F		SUBSTATION EASEMENT			I.B.	a.c.	03.11.25					

Site Plus Pty Ltd ABN 73 104 315 095

engineering landscape design flooding management

WOLLONGONG - HEAD OFFICE
Shop 1, 18 Arrow Avenue
Figtree NSW 2525
PO Box 506
Figtree NSW 2525
T 61 2 4227 4233
F 61 2 4227 4133
E info@siteplus.com.au

Height Datum A.H.D.

Drawn I.B.

Designed I.B.

Checked A.C.

Approved A.C.

Client Title
LEGACY PROPERTY GROUP
C/-
CHESTER PROJECT MANAGEMENT

Dwg Status APPROVAL

Local Authority WOLLONGONG

Dwg Title
PROPOSED RESIDENTIAL DEVELOPMENT
27 RAILWAY STREET, CORRIMAL

DRAINAGE PLAN 4 - B2.4

Ref & Dwg No
25152.DA.C13

Sheet No
13 of 27

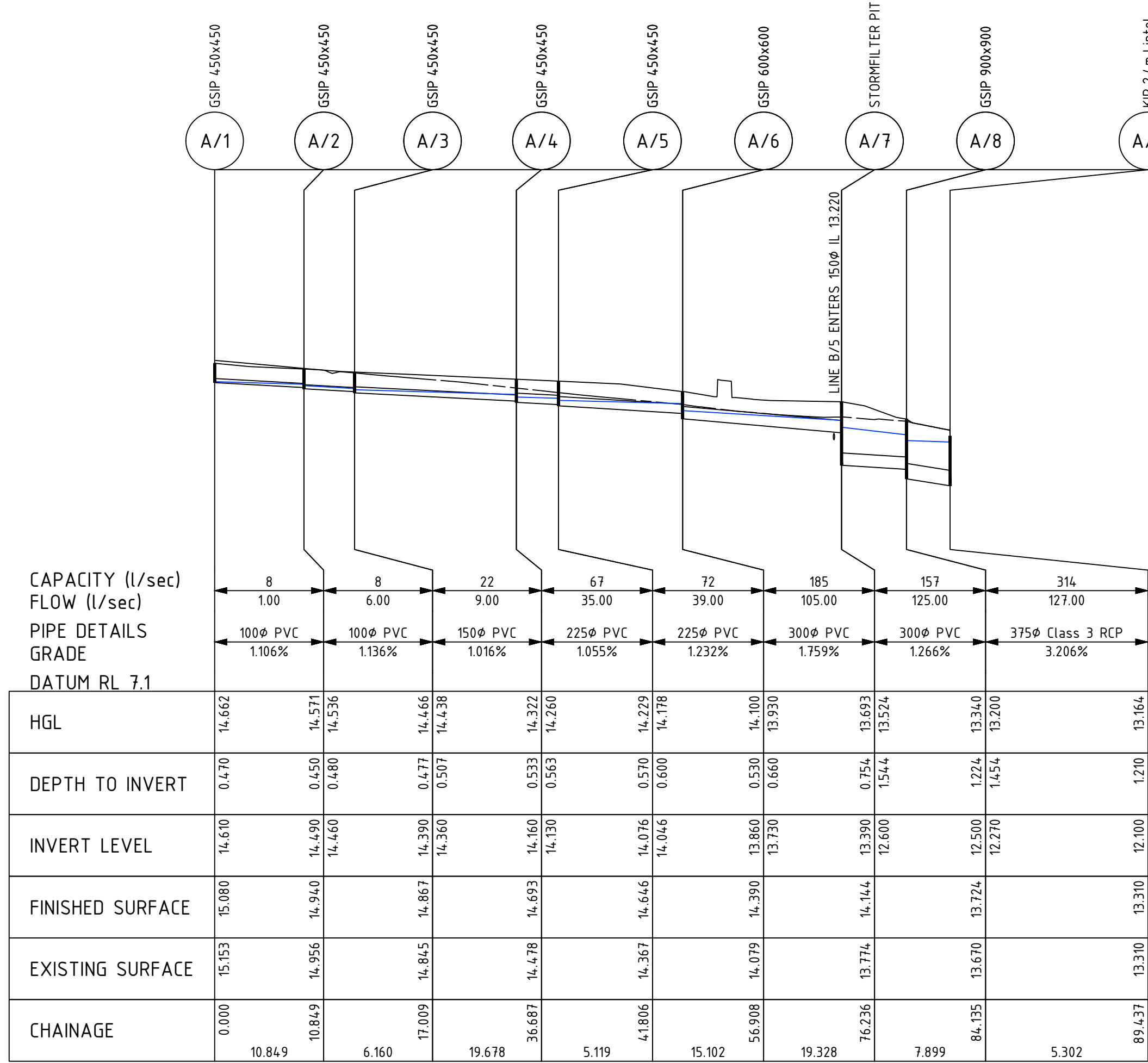
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Date
03.11.25

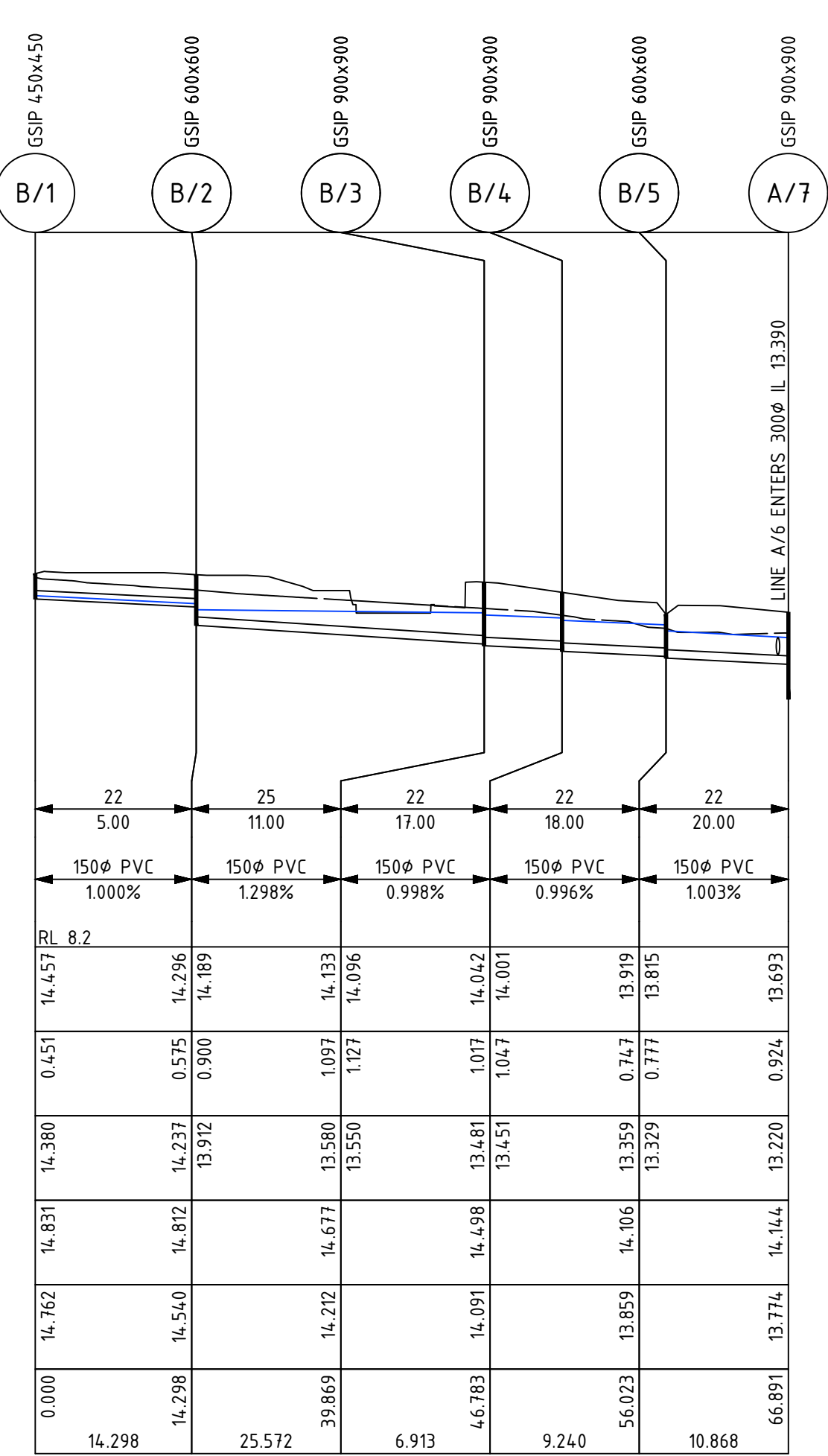
Rev
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A1

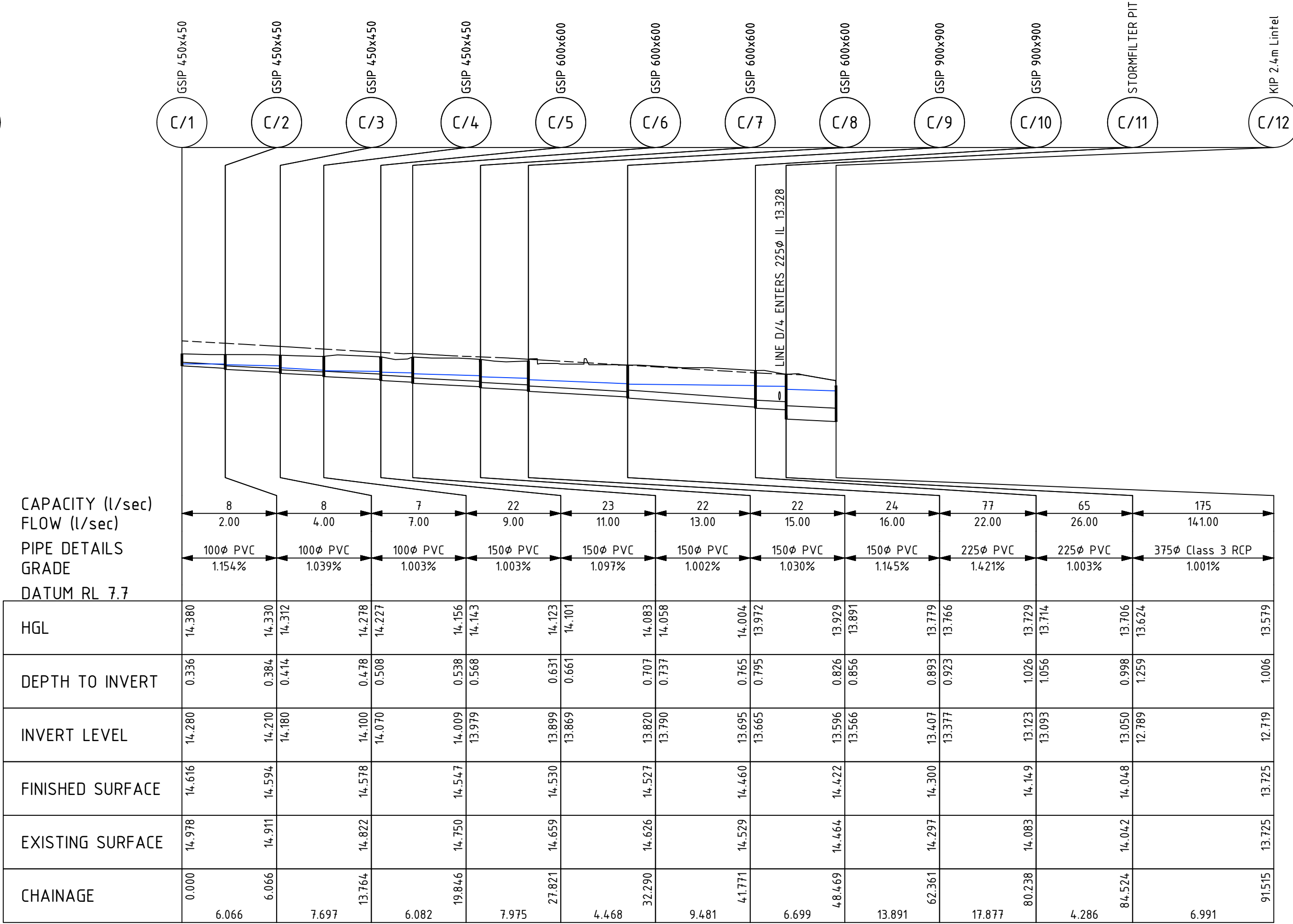
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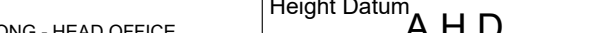
LINE A
SCALES: HORIZ 1:500 VERT 1:100



LINE B
SCALES: HORIZ 1:500 VERT 1:100



LINE C
SCALES: HORIZ 1:500 VERT 1:100

REVISIONS	No.	DESCRIPTION	DRN	APP	DATE	 Site Plus Pty Ltd ABN 73 104 315 095	WOLLONGONG - HEAD OFFICE Shop 1, 18 Arrow Avenue Figtree NSW 2525 PO Box 506 Figtree NSW 2525 T 61 2 4227 4233 F 61 2 4227 4133 E info@siteplus.com.au		Height Datum	A.H.D.	Client Title	LEGACY PROPERTY GROUP		Dwg Title	PROPOSED RESIDENTIAL DEVELOPMENT		Ref & Dwg No 25152.DA.C14	
	B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25		Drawn	I.B.	C/- CHESTER PROJECT MANAGEMENT	APPROVAL	WOLLONGONG	PIPE LONGSECTIONS 1	Sheet No	14 of 27		AS NOTED @ A1		
	C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25		Designed	I.B.					Scale					
	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25		Checked	A.C.					Date	03.11.25	Rev	F	A1	
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25		Approved	A.C.										
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25		 engineering landscape design flooding management											

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REVISIONS

No.	DESCRIPTION	DRN	APP	DATE
B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25
C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25
D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25
E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25
F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25



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engineering landscape design flooding management

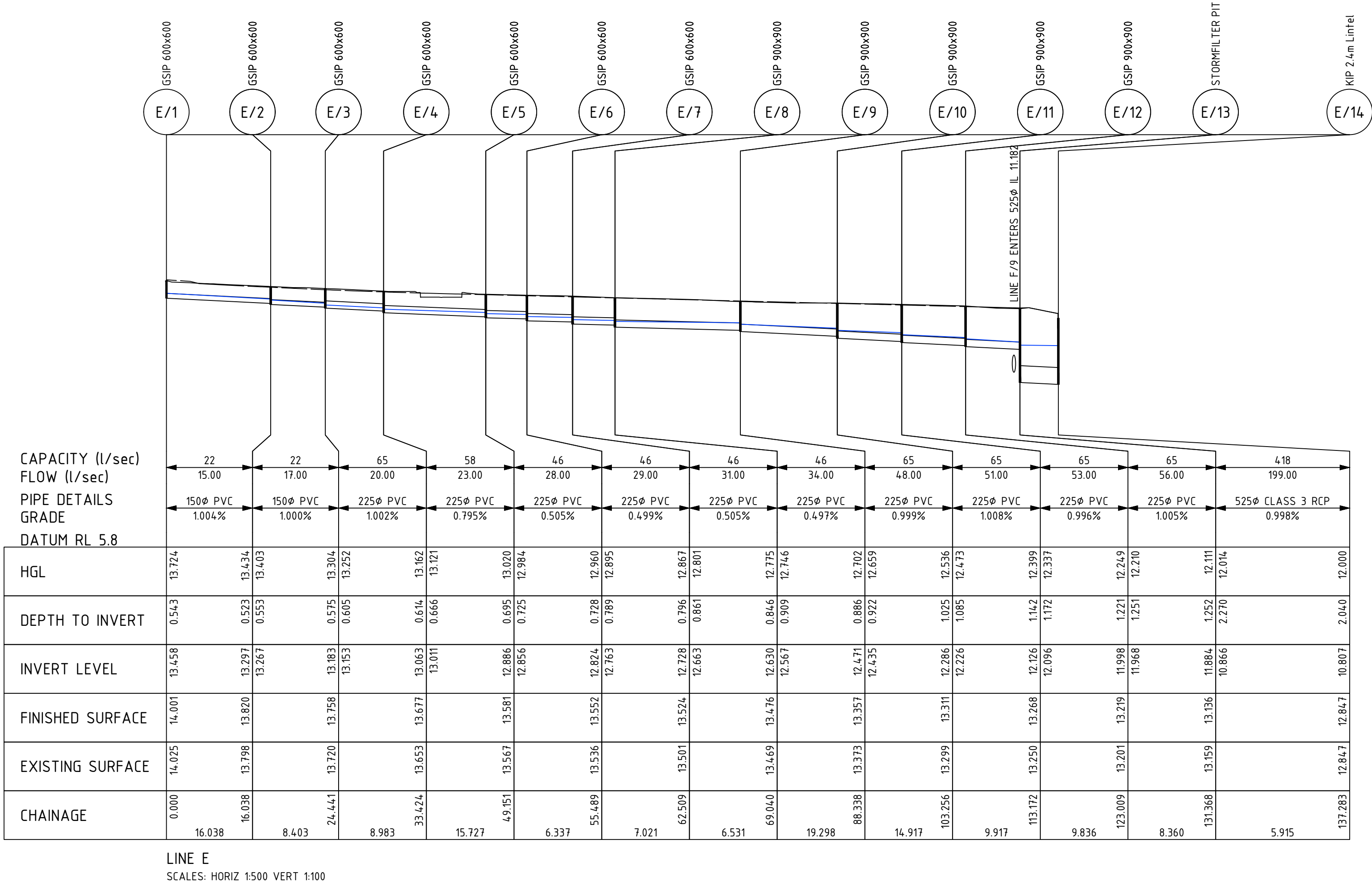
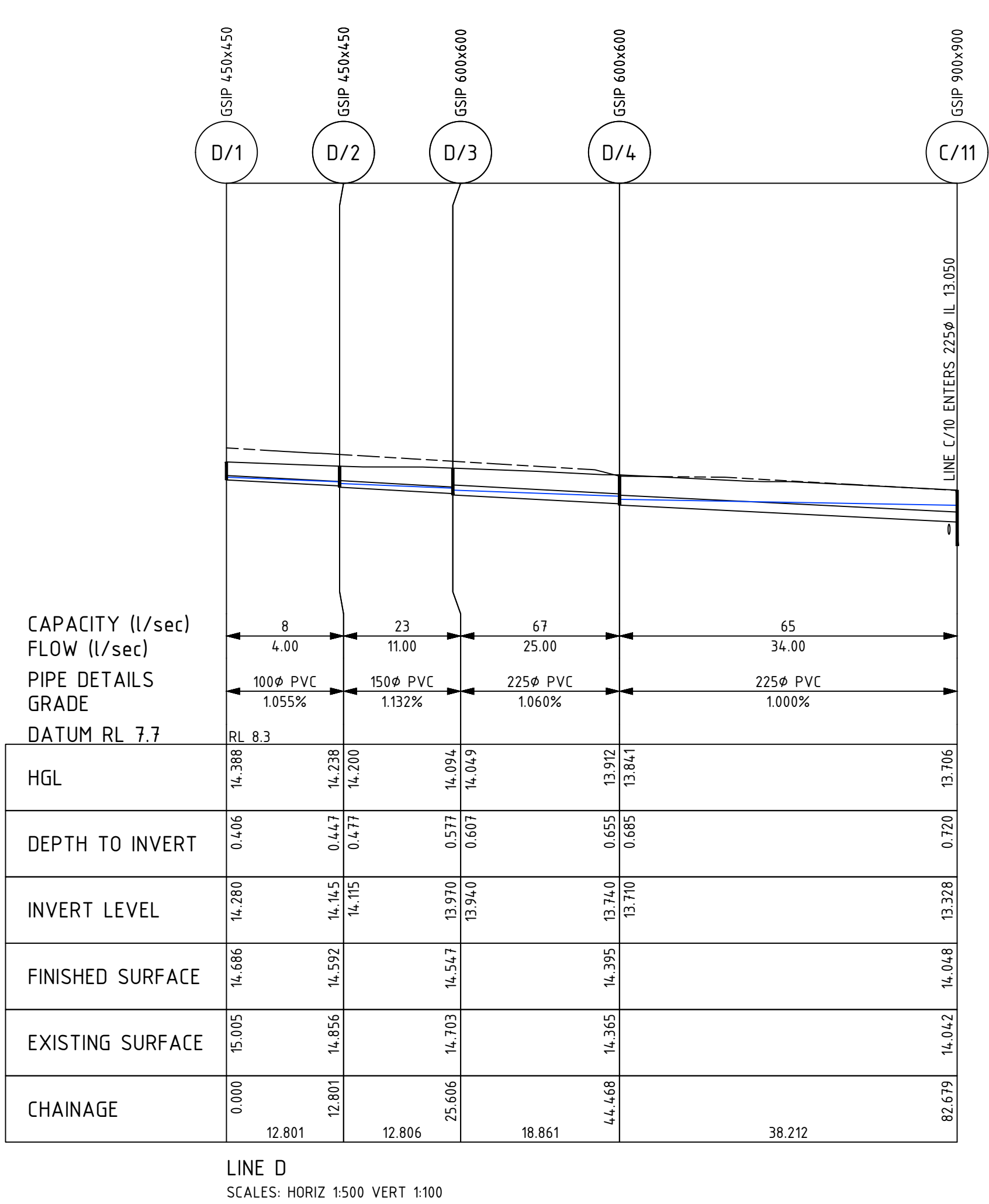
WOLLONGONG - HEAD OFFICE
Shop 1, 18 Arrow Avenue
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PO Box 506
Figtree NSW 2525
T 61 2 4227 4233
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E info@siteplus.com.au

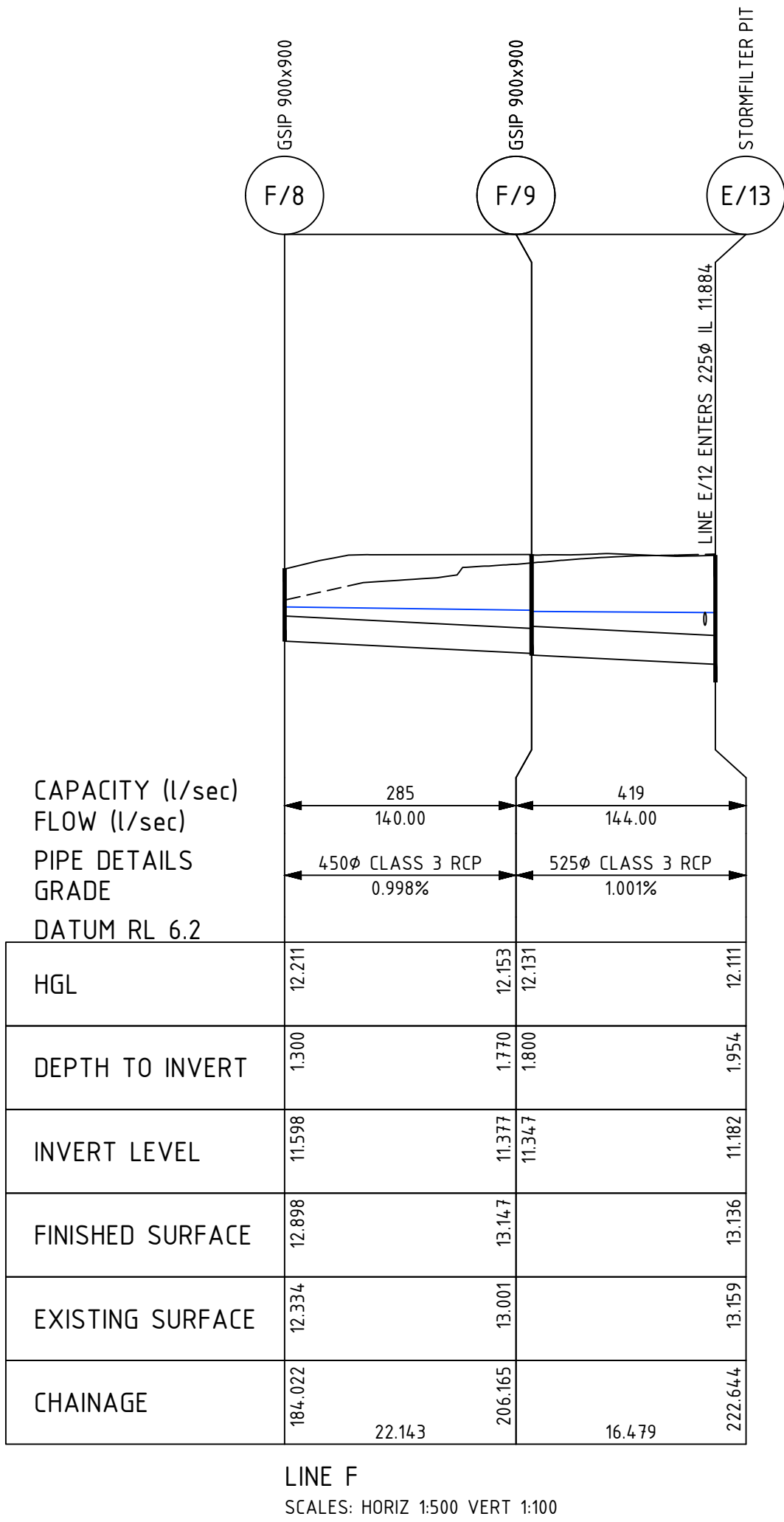
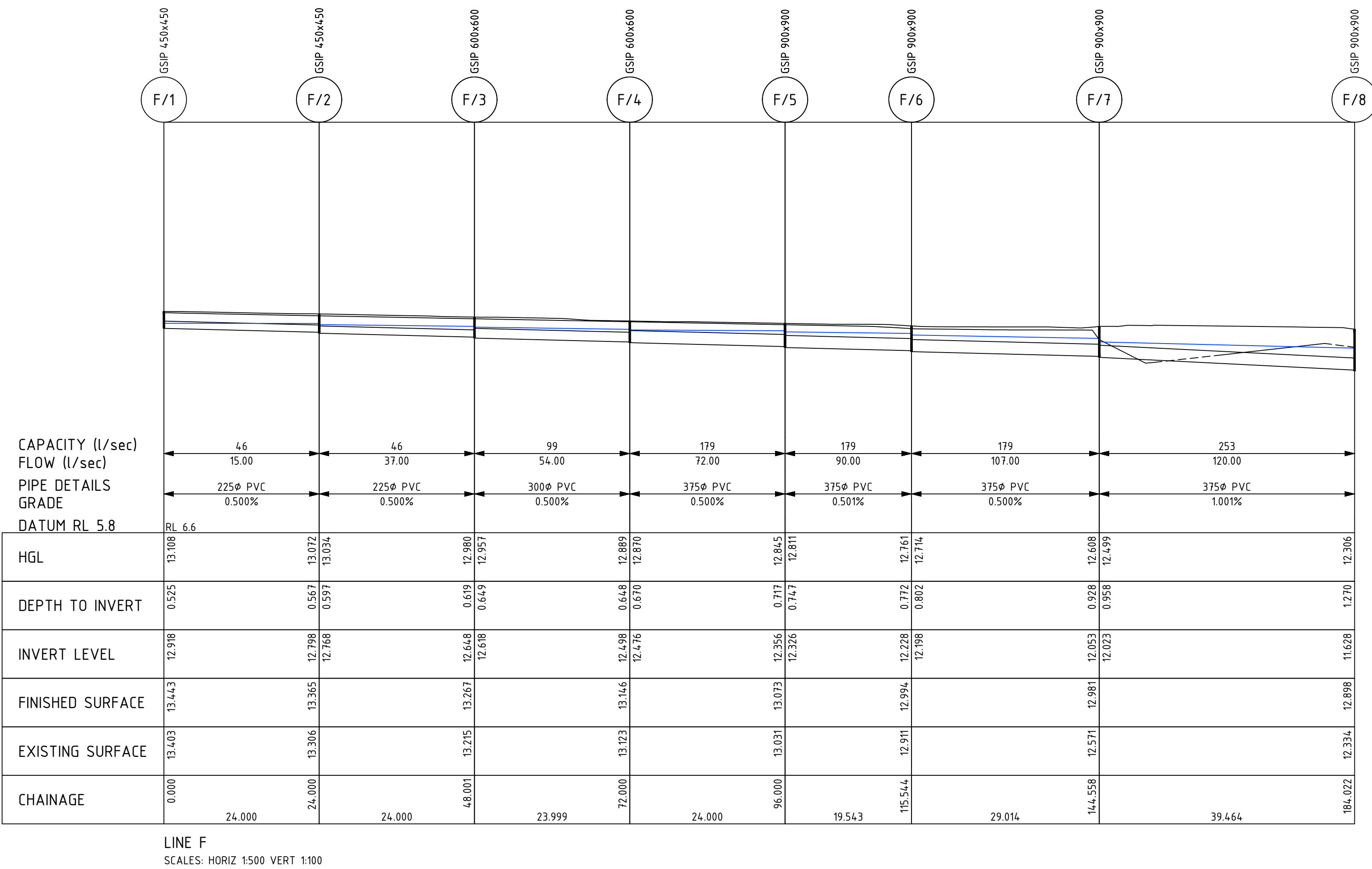
Height Datum	A.H.D.
Drawn	I.B.
Designed	I.B.
Checked	A.C.
Approved	A.C.

Client Title	
LEGACY PROPERTY GROUP	
C/-	
CHESTER PROJECT MANAGEMENT	
Dwg Status	APPROVAL
Local Authority	WOLLONGONG

Dwg Title	
PROPOSED RESIDENTIAL DEVELOPMENT	
27 RAILWAY STREET, CORRIMAL	
PIPE LONGSECTIONS 2	

Ref & Dwg No	
25152.DA.C15	
Sheet No	15 of 27
Scale	AS NOTED @ A1
Date	03.11.25
Rev	F
	A1





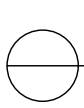
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REVISIONS

No.	DESCRIPTION	DRN	APP	DATE
B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25
C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25
D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25
E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25
F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25



Site Plus Pty Ltd ABN 73 104 315 095



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WOLLONGONG - HEAD OFFICE
Shop 1, 18 Arrow Avenue
Figtree NSW 2525
PO Box 506
Figtree NSW 2525
T 61 2 4227 4233
F 61 2 4227 4133
E info@siteplus.com.au

Height Datum	A.H.D.
Drawn	I.B.
Designed	I.B.
Checked	A.C.
Approved	A.C.

Client Title	LEGACY PROPERTY GROUP C/- CHESTER PROJECT MANAGEMENT
Dwg Status	APPROVAL
Local Authority	WOLLONGONG

Dwg Title	PROPOSED RESIDENTIAL DEVELOPMENT 27 RAILWAY STREET, CORRIMAL PIPE LONGSECTIONS 3
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Ref & Dwg No	25152.DA.C16
Sheet No	16 of 27
Scale	AS NOTED @ A1
Date	03.11.25
Rev	F
A1	

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Hydrologic Design Sheet -Drainage - B2.1										Return Period: 10%		Location: depths				
Corrimal all design-2016																
Pit	Catchment Flow Length	Catchment Slope	Catchment Roughness	Catchment Flow Time	Gutter Flow Time	Total Time	Pit C Factor	Total Catchment Area	Aera Contributing	Rainfall Intensity	Total Catchment Flow	Pit Type	Gutter Pit Inflow	Gutter Slope	Gutter Flow Width	Total Upstream Catchment
	(m)	(%)	'n'	(min)	(min)	(min)		(ha)	(l/s)	(mm/hr)	(l/s)		(l/s)	(%)	(m)	(ha)
A/1				5.00		5	1.000	0.00	0.0	181.2	0.7	GSIP 450x450				0.0
							0.000									
	6.10	1.1	0.170				0.000									
A/2				5.00		5	1.000	0.01	0.0	181.2	5.0	GSIP 450x450	1.0			0.0
	14.19	1.9	0.010				1.000	0.00								
							0.000									
	14.19	1.9	0.170				1.000	0.01								
A/3				5.00		5	1.000	0.01	0.0	181.2	3.3	GSIP 450x450	0.7			0.0
	4.77	15.5	0.010				1.000	0.00								
							0.000									
	10.58	1.9	0.170				1.000	0.01								
A/4				6.66		7	1.000	0.05	0.1	168.4	21.4	GSIP 450x450	12.9			0.1
	26.64	10.1	0.010				1.000	0.03								
							0.000									
	23.67	2.0	0.170				1.000	0.02								
A/5				5.00		5	1.000	0.01	0.1	181.2	2.7	GSIP 450x450	1.6			0.1
	6.42	2.6	0.010				1.000	0.00								
							0.000									
	10.32	2.6	0.170				1.000	0.00								
A/6				5.47		5	1.000	0.12	0.2	177.6	57.1	GSIP 600x600	51.4			0.2
	39.27	2.7	0.010				1.000	0.10								
							0.000									
	19.31	2.4	0.170				1.000	0.01								
A/7				5.00		5	1.000	0.01	0.2	181.2	3.5	GSIP 900x900				0.2
							0.000									
							0.000									
	13.73	1.6	0.170				1.000	0.01								
A/8				5.00		5	1.000	0.00	0.2	181.2	1.6	GSIP 900x900				0.2
							0.000									
							0.000									
	6.35	2.6	0.170				1.000	0.00								
B/1				8.07		8	1.000	0.01	0.0	157.7	5.0	GSIP 450x450	1.0			0.0
							0.000									
	27.42	1.5	0.010				1.000	0.00								
	27.42	1.5	0.170				1.000	0.01								
B/2				5.86		6	1.000	0.01	0.0	174.6	2.8	GSIP 600x600	0.6			0.0
	12.31	0.8	0.010				1.000	0.00								
							0.000									
	12.72	0.8	0.170				1.000	0.00								
B/3				5.00		5	1.000	0.01	0.0	181.2	6.8	GSIP 900x900	5.5			0.0
	6.05	0.8	0.010				1.000	0.01								
							0.000									
	2.83	1.7	0.170				1.000	0.00								
B/4				5.00		5	1.000	0.00	0.0	181.2	1.0	GSIP 900x900				0.0
							0.000									
							0.000									
	3.35	1.5	0.170				1.000	0.00								
B/5				5.00		5	1.000	0.00	0.0	181.2	1.9	GSIP 600x600	0.4			0.0
							0.000									
	8.79	2.7	0.010				1.000	0.00								
	7.28	3.0	0.170				1.000	0.00								

HGL Report - Drainage - B2.1										Return Period: 10%yrs		Location: depths Corrimal all design-2016													
Pipe Connecting Pifs (Downstream Upstream)	Pipe ID	Pipe Class	Pipe Diameter	Pipe Length	Pipe Design Flow	Mannings n	Pipe Velocity	Pipe Part Velocity	Pipe Velocity Head	HGL at Downstream Pit	Pipe Friction Slope	Pipe Friction Loss	HGL at Upstream Pit	Pit Loss Coefficient	Pipe Head Loss	Adopted Upstream Water Level	Pit Surgecharge Level (Pit Inlet/Outlet Level)	Downstream Pipe Obvert	Upstream Pipe Obvert	Downstream Pipe Invert	Upstream Pipe Invert	Pipe Slope	Pipe Design Flow	Pipe HGL Capacity	Pipe Manning Capacity
			(mm)	(m)	(l/s)		(m/s)	(m/s)	(m)	(m)	(%)	(m)	(m)	Ku	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(%)	(l/s)	(l/s)	(l/s)
A/2 A/1		PVC	100	10.849	0.7	0.009	0.62	0.621	0.000	14.579	0.00	0.002	14.699	17.157	0.007	14.706	15.080	14.590	14.710	14.490	14.610	1.106	0.7	8.0	7.8
A/3 A/2		PVC	100	6.160	5.6	0.009	1.10	1.095	0.026	14.452	0.01	0.035	14.522	2.169	0.057	14.579	14.940	14.490	14.560	14.390	14.460	1.136	5.6	8.1	8.0
A/4 A/3		PVC	150	19.678	8.8	0.009	1.18	1.181	0.013	14.367	0.00	0.035	14.426	1.000	0.013	14.438	14.867	14.310	14.510	14.160	14.360	1.016	8.8	22.4	22.2
A/5 A/4		PVC	225	5.119	29.8	0.009	1.63	1.630	0.029	14.262	0.00	0.012	14.316	1.805	0.052	14.367	14.693	14.301	14.355	14.076	14.130	1.055	29.8	66.6	66.6
A/6 A/5		PVC	225	15.102	32.2	0.009	1.76	1.762	0.033	14.042	0.00	0.040	14.228	1.000	0.033	14.262	14.646	14.085	14.271	13.860	14.046	1.232	32.2	72.2	72.0
A/7 A/6		PVC	300	19.328	85.6	0.009	2.57	2.567	0.075	13.533	0.00	0.078	13.873	2.261	0.169	14.042	14.390	13.690	14.030	13.390	13.730	1.759	85.6	185.4	185.3
A/8 A/7		PVC	300	7.899	95.3	0.009	2.33	2.330	0.093	13.255	0.00	0.039	13.294	1.110	0.103	13.397	14.144	12.800	12.900	12.500	12.600	1.266	95.3	156.2	157.2
A/9 A/8		Class 3 RCP	375	5.302	96.3	0.013	2.50	2.501	0.039	13.160	0.00	0.009	13.169	2.214	0.086	13.255	13.724	12.475	12.645	12.100	12.270	3.206	96.3	443.3	313.9
B/2 B/1		PVC	150	14.298	5.0	0.009	1.01	1.008	0.004	14.286	0.00	0.009	14.429	12.549	0.052	14.481	14.831	14.387	14.530	14.237	14.380	1.000	5.0	22.2	22.0
B/3 B/2		PVC	150	25.572	7.5	0.009	1.25	1.248	0.009	13.649	0.00	0.034	13.981	1.296	0.012	13.993	14.812	13.730	14.062	13.580	13.912	1.298	7.5	25.5	25.1
B/4 B/3		PVC	150	6.913	9.0	0.009	1.18	1.182	0.013	13.567	0.00	0.013	13.636	1.000	0.013	13.649	14.677	13.631	13.700	13.481	13.550	0.998	9.0	22.2	22.0
B/5 B/4		PVC	150	9.240	10.2	0.009	1.23	1.226	0.017	13.528	0.00	0.022	13.550	1.000	0.017	13.567	14.498	13.509	13.601	13.359	13.451	0.996	10.2	22.1	22.0
A/7 B/5		PVC	150	10.868	15.4	0.009	1.35	1.346	0.039	13.397	0.01	0.055	13.451	2.003	0.077	13.528	14.106	13.370	13.479	13.220	13.329	1.003	15.4	22.2	22.0

Pit Schedule - Drainage - B2.1												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
A/9	KIP 2.4m Lintel	600	900			375	12.100	1.214	13.314	307238.25	6194.085.515	
A/8	GSIP 900x900	900	900	375	12.270	300	12.500	1.454	13.724	307239.95	6194.090.537	
A/7	Stormfilter Pit	900	900	300	12.600	300	13.390	1.544	14.144	307232.46	6194.093.036	
						150	13.220					
A/6	GSIP 600x600	600	600	300	13.730	225	13.860	0.660	14.390	307213.42	6194.096.340	
B/5	GSIP 600x600	600	600	150	13.329	150	13.359	0.777	14.106	307243.30	6194.092.314	
A/5	GSIP 450x450	450	450	225	14.046	225	14.076	0.600	14.646	307217.79	6194.110.795	
B/4	GSIP 900x900	900	900	150	13.451	150	13.481	1.047	14.498	307245.98	6194.101.158	
A/4	GSIP 450x450	450	450	225	14.130	150	14.160	0.563	14.693	307219.27	6194.115.695	
B/3	GSIP 900x900	900	900	150	13.550	150	13.580	1.127	14.677	307247.98	6194.107.775	
A/3	GSIP 450x450	450	450	150	14.360	100	14.390	0.507	14.867	307224.97	6194.134.530	
B/2	GSIP 600x600	600	600	150	13.912	150	14.237	0.900	14.812	307255.39	6194.132.251	
A/2	GSIP 450x450	450	450	100	14.460	100	14.490	0.480	14.940	307226.76	6194.140.426	
B/1	GSIP 450x450	450	450	150	14.380			0.451	14.831	307259.53	6194.145.936	
A/1	GSIP 450x450	450	450	100	14.610			0.470	15.080	307229.90	6194.150.810	

REVISIONS

No.

DESCRIPTION

DRN

APP

DATE

engineering

landscape

design

flooding

management

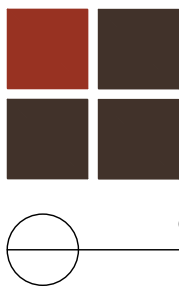
Site Plus Pty Ltd ABN 73 104 315 095

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Shop 1,

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REVISIONS

No.	DESCRIPTION	DRN	APP	DATE
B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25
C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25
D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25
E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25
F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25



engineering landscape design flooding management

design

WOLLONGONG - HEAD OFFICE
Shop 1, 18 Arrow Avenue
Figtree NSW 2555
PO Box 506
Figtree NSW 2525
T 61 2 4227 4233
F 61 2 4227 4133
E info@siteplus.com.au

Height Datum	A.H.D.
Drawn	I.B.
Designed	I.B.
Checked	A.C.
Approved	A.C.

Client Title	
LEGACY PROPERTY GROUP	
C/-	
CHESTER PROJECT MANAGEMENT	
Dwg Status	APPROVAL
Local Authority	WOLLONGONG

Dwg Title	
PROPOSED RESIDENTIAL DEVELOPMENT	
27 RAILWAY STREET, CORRIMAL	
DRAINAGE CALCULATIONS - B2.2	

Ref & Dwg No	
25152.DA.C18	
Sheet No	18 of 27
Scale	N/A
Date	03.11.25
Rev	F
	A1

Hydrologic Design Sheet –Drainage – B2.2 Return Period: 10% Location: depths
Corrimal all design–2016

Pit	Catchment Flow Length	Catchment Slope	Catchment Roughness	Catchment Flow Time	Gutter Flow Time	Total Time	Pit C Factor	Total Catchment Area	Aera Contributing	Rainfall Intensity	Total Catchment Flow	Pit Type	Gutter Pit Inflow	Gutter Slope	Gutter Flow Width	Total Upstream Catchment
	(m)	(%)	'n'	(min)	(min)	(min)		(ha)	(l/s)	(mm/hr)	(l/s)		(l/s)	(%)	(m)	(ha)
C/1				5.00		5	1.000	0.00	0.0	181.2	2.2	GSIP 450x450	1.1			0.0
	6.73	1.0	0.010				1.000	0.00								
							0.000									
	5.57	1.0	0.170				1.000	0.00								
C/10				5.17		5	1.000	0.01	0.0	179.9	3.3	GSIP 900x900	0.7			0.0
							0.000									
	7.36	1.5	0.010				1.000	0.00								
	12.73	1.2	0.170				1.000	0.01								
C/11				11.86		12	1.000	0.14	0.3	133.7	52.0	GSIP 900x900	4.6.8			0.3
	36.61	1.6	0.010				1.000	0.13								
							0.000									
	37.61	1.0	0.170				1.000	0.01								
C/2				5.00		5	1.000	0.00	0.0	181.2	1.6	GSIP 450x450	1.0			0.0
	4.80	1.0	0.010				1.000	0.00								
							0.000									
	2.58	1.0	0.170				1.000	0.00								
C/3				5.00		5	1.000	0.01	0.0	181.2	2.6	GSIP 450x450	1.3			0.0
	5.74	1.0	0.010				1.000	0.00								
							0.000									
	3.51	1.0	0.170				1.000	0.00								
C/4				5.00		5	1.000	0.00	0.0	181.2	1.9	GSIP 450x450	1.0			0.0
	6.59	1.0	0.010				1.000	0.00								
							0.000									
	4.61	1.6	0.170				1.000	0.00								
C/5				5.00		5	1.000	0.00	0.0	181.2	2.0	GSIP 600x600	1.0			0.0
	5.77	0.8	0.010				1.000	0.00								
							0.000									
	4.51	0.8	0.170				1.000	0.00								
C/6				5.68		6	1.000	0.00	0.0	176.0	1.6	GSIP 600x600	0.2			0.0
							0.000									
	4.09	0.5	0.010				1.000	0.00								
	12.41	0.9	0.170				1.000	0.00								
C/7				5.00		5	1.000	0.00	0.0	181.2	1.4	GSIP 600x600	0.4			0.0
							0.000									
	7.03	1.1	0.010				1.000	0.00								
	5.21	1.1	0.170				1.000	0.00								
C/8				5.00		5	1.000	0.00	0.0	181.2	1.5	GSIP 600x600	1.0			0.0
	6.82	1.3	0.010				1.000	0.00								
							0.000									
	2.38	0.8	0.170				1.000	0.00								
C/9				5.00		5	1.000	0.01	0.0	181.2	5.3	GSIP 900x900	4.8			0.0
	15.14	1.1	0.010				1.000	0.01								
							0.000									
	1.88	0.6	0.170				1.000	0.00								
D/1				5.00		5	1.000	0.01	0.0	181.2	4.2	GSIP 450x450	0.8			0.0
	8.49	0.4	0.010				1.000	0.00								
							0.000									
	10.04	1.0	0.170				1.000	0.01								
D/2				7.17		7	1.000	0.01	0.0	164.5	6.5	GSIP 450x450	1.3			0.0
	12.86	0.9	0.010				1.000	0.00								
							0.000									
	18.67	1.0	0.170				1.000	0.01								
D/3				7.08		7	1.000	0.03	0.1	165.2	13.2	GSIP 600x600	5.3			0.1
							0.000									
	16.83	0.6	0.010				1.000	0.01								
	18.34	1.0	0.170				1.000	0.02								
D/4				8.57		9	1.000	0.02	0.1	153.8	9.0	GSIP 600x600	0.5			0.1
							0.000									
	18.20	1.7	0.010				1.000	0.00								
	24.07	1.0	0.170				1.000	0.02								

HGL Report – Drainage – B2.2 Return Period: 10%yrs Location: depths Corrimal all design–2016

Pipe Connecting Pits (Downstream Upstream)	Pipe ID	Pipe Class	Pipe Diameter	Pipe Length	Pipe Design Flow	Mannings n	Pipe Velocity	Pipe Part Velocity	Pipe Velocity Head	HGL at Downstream Pit	Pipe Friction Slope	Pipe Friction Loss	HGL at Upstream Pit	Pit Loss Coefficient	Pipe Head Loss	Adopted Upstream Water Level	Pit Surcharge Level (Pit Inlet/Outlet Level)	Downstream Pipe Obvert	Upstream Pipe Obvert	Downstream Pipe Invert	Upstream Pipe Invert	Pipe Slope	Pipe Design Flow	Pipe HGL Capacity	Pipe Manning Capacity
			(mm)	(m)	(l/s)		(m/s)	(m/s)	(m)	(m)	(%)	(m)	(m)	Ku	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(%)	(l/s)	(l/s)	(l/s)
C/2 C/1		PVC	100	6.066	2.2	0.009	0.87	0.867	0.004	14.248	0.00	0.006	14.318	11.327	0.044	14.362	14.616	14.310	14.380	14.210	14.280	1.154	2.2	8.2	8.0
C/11 C/10		PVC	225	4.286	17.5	0.009	1.39	1.388	0.010	13.593	0.00	0.004	13.597	1.000	0.010	13.607	14.149	13.275	13.318	13.050	13.093	1.003	17.5	64.9	65.0
C/12 C/11		Class 3 RCP	375	6.991	50.5	0.013	1.37	1.373	0.011	13.579	0.00	0.004	13.583	1.000	0.011	13.593	14.048	13.094	13.164	12.719	12.789	1.001	50.5	243.7	175.4
C/3 C/2		PVC	100	7.697	3.8	0.009	0.96	0.957	0.012	14.208	0.00	0.021	14.230	1.536	0.018	14.248	14.594	14.200	14.280	14.100	14.180	1.039	3.8	7.7	7.6
C/4 C/3		PVC	100	6.082	6.3	0.009	1.05	1.054	0.033	14.098	0.01	0.044	14.159	1.494	0.049	14.208	14.578	14.109	14.170	14.009	14.070	1.003	6.3	7.6	7.5
C/5 C/4		PVC	150	7.975	8.2	0.009	1.16	1.160	0.011	14.007	0.00	0.013	14.087	1.000	0.011	14.098	14.547	14.049	14.129	13.899	13.979	1.003	8.2	22.2	22.0
C/6 C/5		PVC	150	4.468	10.1	0.009	1.26	1.257	0.017	13.939	0.00	0.010	13.988	1.130	0.019	14.007	14.530	13.970	14.019	13.820	13.869	1.097	10.1	23.3	23.0
C/7 C/6		PVC	150	9.481	11.6	0.009	1.26	1.262	0.022	13.816	0.00	0.028	13.911	1.306	0.029	13.939	14.527	13.845	13.940	13.695	13.790	1.002	11.6	22.2	22.0
C/8 C/7		PVC	150	6.699	12.9	0.009	1.31	1.315	0.027	13.720	0.00	0.024	13.789	1.000	0.027	13.816	14.460	13.746	13.815	13.596	13.665	1.030	12.9	22.5	22.3
C/9 C/8		PVC	150	13.891	14.2	0.009	1.39	1.395	0.033	13.626	0.00	0.061	13.687	1.000	0.033	13.720	14.422	13.557	13.716	13.407	13.566	1.145	14.2	23.8	23.5
C/10 C/9		PVC	225	17.877	15.1	0.009	1.50	1.503	0.007	13.607	0.00	0.012	13.619	1.000	0.007	13.626	14.300	13.348	13.602	13.123	13.377	1.421	15.1	77.8	77.3
D/2 D/1		PVC	100	12.801	4.2	0.009	1.00	1.001	0.014	14.277	0.00	0.043	14.332	6.993	0.101	14.433	14.686	14.245	14.380	14.145	14.280	1.055	4.2	7.8	7.7
D/3 D/2		PVC	150	12.806	10.3	0.009	1.29	1.290	0.017	14.106	0.00	0.031	14.251	1.464	0.026	14.277	14.592	14.120	14.265	13.970	14.115	1.132	10.3	23.7	23.4
D/4 D/3		PVC	225	18.861	23.3	0.009	1.53	1.526	0.018	13.883	0.00	0.028	14.083	1.316	0.023	14.106	14.547	13.965	14.165	13.740	13.940	1.060	23.3	66.8	66.8
C/11 D/4		PVC	225	38.212	31.0	0.009	1.61	1.614	0.031	13.593	0.00	0.095	13.819	2.065	0.064	13.883	14.395	13.553	13.935	13.328	13.710	1.000	31.0	64.7	64.8

Pit Schedule – Drainage – B2.2

Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
C/12	KIP 2.4m Lintel	600	900			375	12.719	1.006	13.725	307260.05	6194091.594	
C/11	Stormfilter Pit	900	900	375	12.789	225	13.050	1.259	14.048	307265.84	6194087.669	
						225	13.328					
C/10	GSIP 900x900	900	900	225	13.093	225	13.123	1.056	14.149	307266.14	6194091.944	
D/4	GSIP 600x600	600	600	225	13.710	225	13.740	0.685	14.395	307303.47	6194081.032	
C/9	GSIP 900x900	900	900	225	13.377	150	13.407	0.923	14.300	307271.31	6194109.060	
D/3	GSIP 600x600	600	600	225	13.940	150	13.970	0.607	14.547	307308.93	6194099.085	
C/8	GSIP 600x600	600	600	150	13.566	150	13.596	0.856	14.422	307275.33	6194122.356	
D/2	GSIP 450x450	450	450	150	14.115	100	14.145	0.477	14.592	307312.64	6194111.342	
C/7	GSIP 600x600	600	600	150	13.665	150	13.695	0.795	14.460	307277.27	6194128.768	
D/1	GSIP 450x450	450	450	100	14.280			0.406	14.686	307316.35	6194123.594	
C/6	GSIP 600x600	600	600	150	13.790	150	13.820	0.737	14.527	307280.08	6194137.823	
C/5	GSIP 600x600	600	600	150	13.869	150	13.899	0.661	14.530	307284.30	6194139.283	
C/4	GSIP 450x450	450	450	150	13.979	100	14.009	0.568	14.547	307291.93	6194136.975	
C/3	GSIP 450x450	450	450	100	14.070	100	14.100	0.508	14.578	307297.76	6194135.228	
C/2	GSIP 450x450	450	450	100	14.180	100	14.210	0.414	14.594	307305.13	6194132.997	
C/1	GSIP 450x450	450	450	100	14.280			0.336	14.616	307310.93	6194131.240	

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REVISIONS

No. B C D E F

DESCRIPTION
ADJUSTED PITS FOR B2.1 & B2.2
REVISED TO UPDATED ARCH
REVISED TO UPDATED ARCH
REVISED EXISTING SURFACE
SUBSTATION EASEMENT

DRN I.B. I.B. I.B. I.B. I.B.
APP A.C. A.C. A.C. A.C. a.c.
DATE 19.09.25 26.09.25 14.10.25 03.11.25 03.11.25



Site Plus Pty Ltd ABN 73 104 315 095

engineering landscape design flooding management

WOLLONGONG - HEAD OFFICE
Shop 1, 18 Arrow Avenue
Figtree NSW 2525
PO Box 506
Figtree NSW 2525
T 61 2 4227 4133
F 61 2 4227 4133
E info@siteplus.com.au

Height Datum A.H.D.
Drawn I.B.
Designed I.B.
Checked A.C.
Approved A.C.

Client Title
LEGACY PROPERTY GROUP
C/-
CHESTER PROJECT MANAGEMENT
Dwg Status APPROVAL
Local Authority WOLLONGONG

Dwg Title
PROPOSED RESIDENTIAL DEVELOPMENT
27 RAILWAY STREET, CORRIMAL
DRAINAGE CALCULATION B2.3 & B2.4

Ref & Dwg No
25152.DA.C19
Sheet No 19 of 27
Scale N/A
Date 03.11.25
Rev F
A1

Hydrologic Design Sheet –Drainage - B2.3 & B2.4 Return Period:
10% Location: depths Corrimal all design–2016

Pit	Catchment Flow Length	Catchment Slope	Catchment Roughness	Catchment Flow Time	Total Time	Pit C Factor	Total Catchment Area	Aera Contributing	Rainfall Intensity	Total Catchment Flow	Pit Type	Gutter Pit Inflow	Total Upstream Catchment
	(m)	(%)	'n'	(min)	(min)		(ha)	(l/s)	(mm/hr)	(l/s)		(l/s)	(ha)
E/1				12.91	13	1.000	0.04	0.0	128.6	15.0	GSIP 600x600		0.0
						0.000							
	42.03	1.0	0.170			1.000	0.04						
E/10				5.14	5	1.000	0.01	0.1	180.1	3.6	GSIP 900x900	0.7	0.1
	11.68	1.0	0.010			1.000	0.00						
						0.000							
	11.37	1.0	0.170			1.000	0.01						
E/11				5.00	5	1.000	0.00	0.1	181.2	2.4	GSIP 900x900	1.2	0.1
						0.000							
	6.50	1.0	0.010			1.000	0.00						
	3.60	0.7	0.170			1.000	0.00						
E/12				5.00	5	1.000	0.01	0.1	181.2	2.5	GSIP 900x900	0.5	0.1
	9.80	1.0	0.010			1.000	0.00						
						0.000							
	8.68	1.0	0.170			1.000	0.00						
E/13				5.00	5	1.000	0.00	0.5	181.2	2.3	GSIP 900x900	0.5	0.5
	8.33	0.5	0.010			1.000	0.00						
						0.000							
	5.60	2.1	0.170			1.000	0.00						
E/2				5.00	5	1.000	0.01	0.0	181.2	3.0	GSIP 600x600		0.0
						0.000							
	12.17	1.0	0.120			1.000	0.01						
E/3				5.00	5	1.000	0.01	0.1	181.2	3.1	GSIP 600x600	0.3	0.1
	7.71	0.5	0.010			1.000	0.00						
						0.000							
	7.71	0.5	0.170			1.000	0.01						
E/4				5.00	5	1.000	0.00	0.1	181.2	1.4	GSIP 600x600		0.1
						0.000							
	6.03	2.1	0.170			1.000	0.00						
E/5				5.00	5	1.000	0.01	0.1	181.2	6.1	GSIP 600x600	4.9	0.1
	14.74	1.0	0.010			1.000	0.01						
						0.000							
	3.50	1.0	0.170			1.000	0.00						
E/6				5.00	5	1.000	0.00	0.1	181.2	1.2	GSIP 600x600		0.1
						0.000							
	4.79	2.9	0.170			1.000	0.00						
E/7				5.00	5	1.000	0.00	0.1	181.2	2.2	GSIP 600x600	0.9	0.1
	4.86	5.4	0.010			1.000	0.00						
						0.000							
	2.76	5.1	0.170			1.000	0.00						
E/8				5.00	5	1.000	0.00	0.1	181.2	2.4	GSIP 900x900	0.2	0.1
						0.000							
	4.76	1.0	0.010			1.000	0.00						
	2.89	2.6	0.170			1.000	0.00						
E/9				7.71	8	1.000	0.04	0.1	160.4	17.7	GSIP 900x900	1.8	0.1
						0.000							
	23.49	1.0	0.010			1.000	0.00						
	20.74	1.0	0.170			1.000	0.04						
F/1				5.26	5	1.000	0.03	0.0	179.2	15.4	GSIP 450x450		0.0
						0.000							
						0.000							
	17.78	2.3	0.170			1.000	0.03						
F/2				9.67	10	1.000	0.05	0.1	145.3	22.2	GSIP 450x450	2.2	0.1
						0.000							
	25.44	0.9	0.010			1.000	0.01						
	28.29	1.0	0.170			1.000	0.05						
F/3				9.69	10	1.000	0.04	0.1	145.2	17.8	GSIP 600x600	1.8	0.1
						0.000							
	23.48	1.5	0.010			1.000	0.00						
	28.37	1.0	0.170			1.000	0.04						
F/4				9.53	10	1.000	0.05	0.2	146.4	21.8	GSIP 600x600	2.2	0.2
						0.000							
	24.68	2.3	0.010			1.000	0.01						
	27.74	1.0	0.170			1.000	0.05						
F/5				8.60	9	1.000	0.05	0.2	153.5	21.2	GSIP 900x900	2.1	0.2
						0.000							

	24.19	1.0	0.010			1.000	0.00						
	24.19	1.0	0.170			1.000	0.04						
F/6				9.78	10	1.000	0.04	0.3	144.5	17.4	GSIP 900x900	1.7	0.3
						0.000							
	25.39	1.1	0.010			1.000	0.00						
	28.72	1.0	0.170			1.000	0.04						
F/7				15.98	16	1.000	0.06	0.3	115.2	18.7	GSIP 900x900	1.9	0.3
						0.000							
	25.03	1.2	0.010			1.000	0.01						
	56.03	1.0	0.170			1.000	0.05						
F/8				5.84	6	1.000	0.05	0.4	174.7	22.4	GSIP 900x900		0.4
						0.000							
						0.000							
	21.43	2.4	0.170			1.000	0.05						
F/9				6.14	6	1.000	0.01	0.4	172.5	4.2	GSIP 900x900	0.4	0.4
						0.000							
	6.41	1.5	0.010			1.000	0.00						
	14.85	1.0	0.170			1.000	0.01						

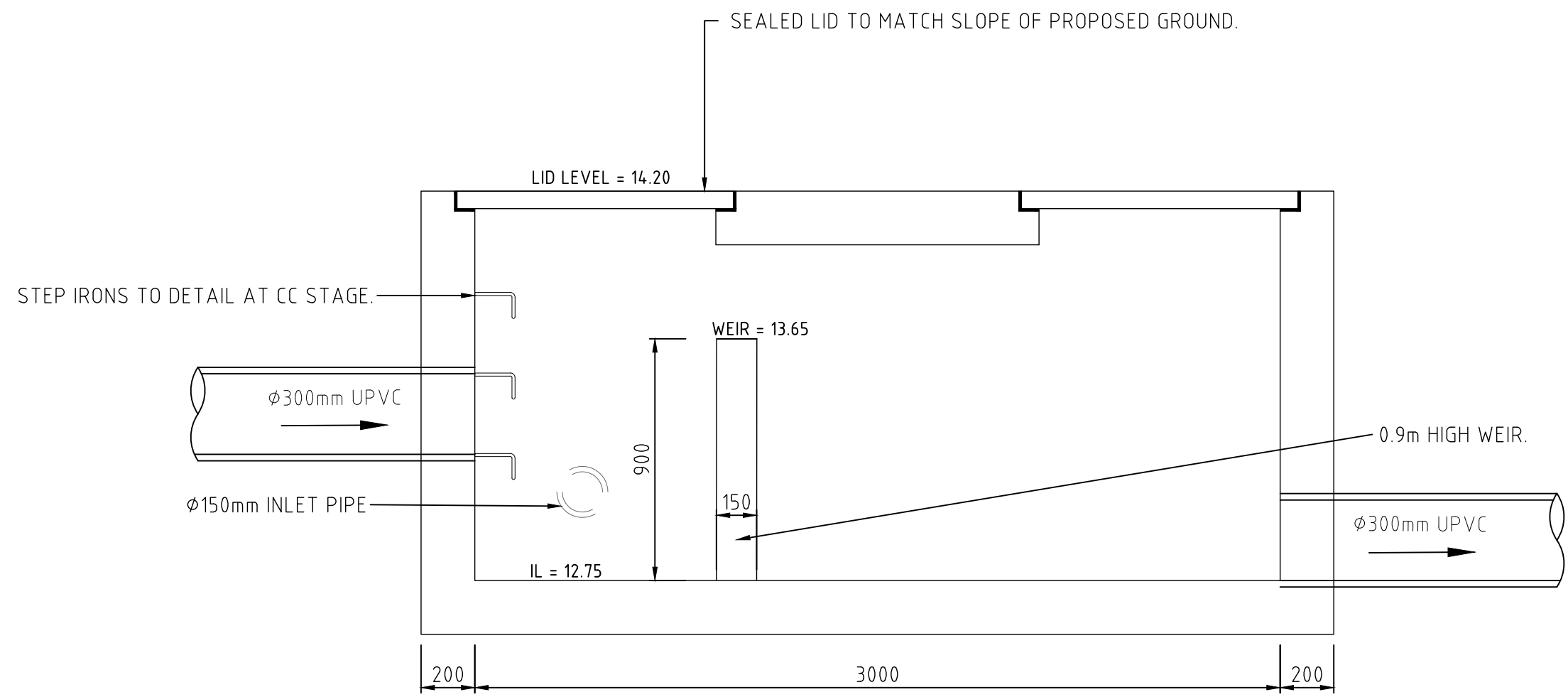
Pit Schedule - Drainage - B2.3 & B2.4

Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)
E/14	KIP 2.4m Lintel	600	900			525	10.807	2.040	12.847	307220.82	6193961.968
E/13	Stormfilter Pit	900	900	525	10.866	225	11.884	2.270	13.136	307226.44	6193960.112
						525	11.182				
E/12	GSIP 900x900	900	900	225	11.968	225	11.998	1.251	13.219	307228.88	6193968.107
F/9	GSIP 900x900	900	900	525	11.347	450	11.377	1.800	13.147	307221.93	6193944.262
E/11	GSIP 900x900	900	900	225	12.096	225	12.126	1.172	13.268	307231.73	6193977.522
F/8	GSIP 900x900	900	900	450	11.598	375	11.628	1.300	12.898	307215.27	6193923.142
E/10	GSIP 900x900	900	900	225	12.226	225	12.286	1.085	13.311	307234.60	6193987.014
F/7	GSIP 900x900	900	900	375	12.023	375	12.053	0.958	12.981	307254.24	6193916.896
E/9	GSIP 900x900	900	900	225	12.435	225	12.471	0.922	13.357	307238.92	6194001.292
F/6	GSIP 900x900	900	900	375	12.198	375	12.228	0.802	13.000	307262.64	6193944.667
E/8	GSIP 900x900	900	900	225	12.567	225	12.630	0.909	13.476	307244.51	6194019.763
F/5	GSIP 900x900	900	900	375	12.326	375	12.356	0.747	13.073	307268.30	6193963.373
E/7	GSIP 600x600	600	600	225	12.663	225	12.728	0.861	13.524	307246.40	6194026.014
F/4	GSIP 600x600	600	600	375	12.476	300	12.498	0.670	13.146	307275.25	6193986.345
E/6	GSIP 600x600	600	600	225	12.763	225	12.824	0.789	13.552	307248.43	6194032.734
F/3	GSIP 600x600	600	600	300	12.618	225	12.648	0.649	13.267	307282.20	6194009.316
E/5	GSIP 600x600	600	600	225	12.856	225	12.886	0.725	13.581	307250.27	6194038.800
F/2	GSIP 450x450	450	450	225	12.768	225	12.798	0.597	13.365	307289.15	6194032.288
E/4	GSIP 600x600	600	600	225	13.011	225	13.063	0.666	13.677	307254.82	6194053.853
F/1	GSIP 450x450	450	450	225	12.918		0.525	13.443	13.443	307296.10	6194055.260
E/3	GSIP 600x600	600	600	225	13.153	150	13.183	0.605	13.758	307257.42	6194062.451
E/2	GSIP 600x600	600	600	150	13.267	150	13.297	0.553	13.820	307259.86	6194070.494
E/1	GSIP 600x600	600	600	150	13.458			0.543	14.001	307266.13	6194085.254

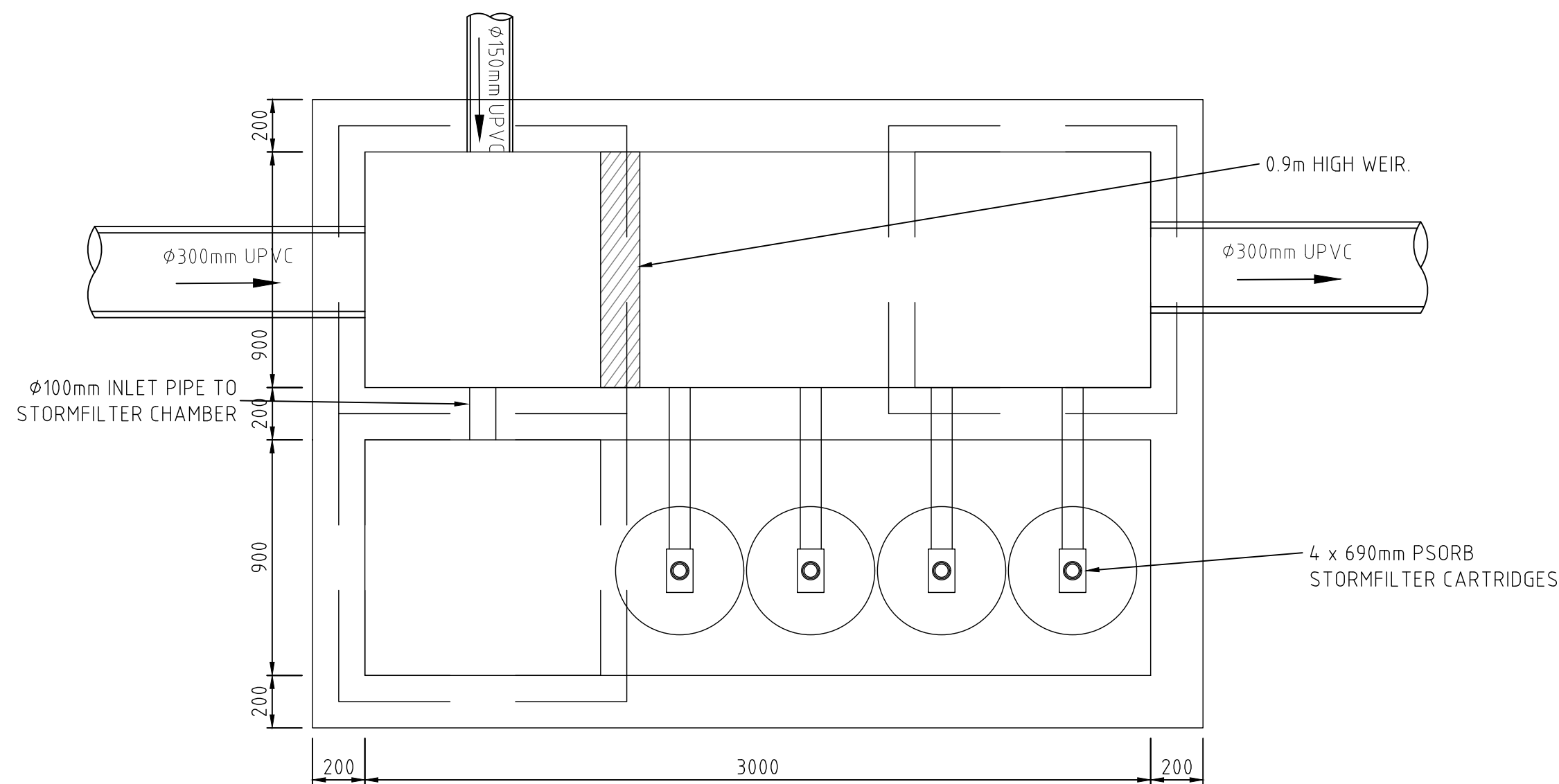
HGL Report - Drainage - B2.3 & B2.4 Return Period: 10%yrs Location: depths Corrimal all design–2016

Pipe Connecting Pits (Downstream Upstream)	Pipe Class	Pipe Diameter	Pipe Length	Pipe Design Flow	Mannings n	Pipe Velocity	Pipe Part Velocity	Pipe Velocity Head	HGL at Downstream Pit	Pipe Friction Slope	Pipe Friction Loss	HGL at Upstream Pit	Pit Loss Coefficient	Pipe Head Loss	Adopted Upstream Water Level	Pit Surcharge Level (Pit Inlet/Outlet Level)	Downstream Pipe Obvert	Upstream Pipe Obvert	Downstream Pipe Invert	Upstream Pipe Invert	Pipe Slope	Pipe Design Flow	Pipe HGL Capacity	Pipe Manning Capacity
		(mm)	(m)	(l/s)		(m/s)	(m/s)	(m)	(m)	(%)	(m)	(m)	Ku	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(%)	(l/s)	(l/s)	(l/s)
E/2 E/1	PVC	150	16.038	15.0	0.009	1.34	1.342	0.037	13.413	0.00	0.077	13.574	5.511	0.202	13.775	14.001	13.447	13.608	13.297	13.458	1.004	15.0	22.2	22.0
E/11 E/10	PVC	225	9.917	4.15	0.009	1.74	1.738	0.056	12.370	0.00	0.043	12.413	1.000	0.056	12.469	13.311	12.351	12.451	12.126	12.226	1.008	4.15	65.0	65.1
E/12 E/11	PVC	225	9.836	4.24	0.009	1.74	1.737	0.058	12.214	0.00	0.044	12.312	1.000	0.058	12.370	13.268	12.223	12.321	11.998	12.096	0.996	4.24	64.6	64.7
E/13 E/12	PVC	225	8.360	4.3	0.009	1.76	1.758	0.062	12.068	0.00	0.040	12.152	1.000	0.062	12.214	13.219	12.109	12.193	11.884	11.968	1.005	4.3	64.9	65.0
E/14 E/13	CLASS 3 RCP	525	5.915	160.2	0.013	1.84	1.840	0.028	12.000	0.00	0.005	12.005	2.274	0.064	12.068	13.136	11.325	11.384	10.807	10.866	0.998	160.2	587.4	418.1
E/3 E/2	PVC	150	8.403	17.0	0.009	1.38	1.380	0.047	13.282	0.01	0.051	13.366	1.000	0.047	13.413	13.820	13.333	13.417	13.183	13.267	1.000	17.0	22.2	22.0
E/4 E/3	PVC	225	8.983	19.1	0.009	1.42	1.420	0.012	13.146	0.00	0.009	13.236	1.000	0.012	13.248	13.758	13.288	13.378	13.063	13.153	1.002	19.1	64.8	64.9
E/5 E/4	PVC	225	15.727	19.9	0.009	1.32	1.318	0.013	12.990	0.00	0.017	13.150	1.000	0.013	13.128	13.677	13.111	13.236	12.886	13.011	0.995	19.9	57.4	57.8
E/6 E/5	PVC	225	6.337	24.0	0.009	1.17	1.171	0.019	12.939	0.00	0.010	12.971	1.000	0.019	12.990	13.581	13.049	13.081	12.824	12.856	0.505	24.0	45.1	46.1
E/7 E/6	PVC	225	7.021	24.8	0.009	1.17	1.172	0.020	12.856	0.00	0.012	12.891	1.000	0.020	12.910	13.552	12.953	12.988	12.728	12.763	0.499	24.8	44.8	45.8
E/8 E/7	PVC	225	6.531	26.2	0.009	1.20	1.196	0.022	12.801	0.00	0.012	12.834	1.000	0.022	12.856	13.524	12.855	12.888	12.630	12.663	0.505	26.2	45.1	46.1
E/9 E/8	PVC	225	19.298	27.6	0.009	1.20	1.202	0.025	12.680	0.00	0.039	12.776	1.000	0.025	12.801	13.476	12.696	12.792	12.471	12.567	0.497	27.6	44.8	45.7
E/10 E/9	PVC	225	16.917	39.6	0.009	1.71	1.715	0.051	12.469	0.00	0.059	12.618	1.231	0.062	12.680	13.357	12.511	12.660	12.286	12.435	0.999	39.6	64.7	64.8
F/2 F/1	PVC	225	24.000	15.4	0.009	1.04	1.041	0.008	13.059	0.00	0.017	13.076	11.808	0.091	13.166	13.443	13.023	13.143	12.798	12.918	0.500	15.4	44.9	45.9
F/3 F/2	PVC	225	24.000	34.7	0.009	1.27	1.265	0.039	12.869	0.00	0.074	12.989	1.804	0.070	13.059	13.365	12.873	12.993	12.648	12.768	0.500	34.7	44.9	45.9
F/4 F/3	PVC	300	23.999	51.6	0.009	1.41	1.413	0.027	12.805	0.00	0.037	12.842	1.000	0.027	12.869	13.267	12.798	12.918	12.498	12.618	0.500	51.6	96.0	98.8
F/5 F/4	PVC	375	24.000	72.2	0.009	1.53	1.533	0.022	12.663	0.00	0.023	12.783	1.000	0.022	12.805	13.146	12.731	12.851	12.356	12.476	0.500	72.2	172.8	179.1
F/6 F/5	PVC	375	19.543	89.1	0.009	1.62	1.621	0.033	12.532	0.00	0.028	12.630	1.000	0.033	12.663	13.073	12.603	12.701	12.228	12.326	0.501	89.1	173.1	179.3
F/7 F/6	PVC	375	29.014	103.7	0.009	1.68	1.681	0.045	12.342	0.00	0.055	12.487	1.000	0.045	12.532	12.994	12.428	12.573	12.053	12.198	0.500	103.7	172.8	179.0
F/8 F/7	PVC	375	39.464	102.8	0.009	2.17	2.175	0.044	12.183	0.00	0.074	12.257	1.926	0.085	12.342	12.981	12.003	12.398	11.628	12.023	1.001	102.8	248.4	253.4
F/9 F/8	CLASS 3 RCP	450	22.143	116.7	0.013	1.70	1.702	0.027	12.191	0.00	0.022	12.113	2.525	0.069	12.183	12.898	11.827	12.048	11.377	11.598	0.998	116.7	392.4	284.8
E/13 F/9	CLASS 3 RCP	525	16.479	118.5	0.013	1.70	1.697	0.015	12.068	0.00	0.008	12.076	1.000	0.015	12.091	13.147	11.700	11.865	11.182	11.347	1.001	118.5	588.6	418.9

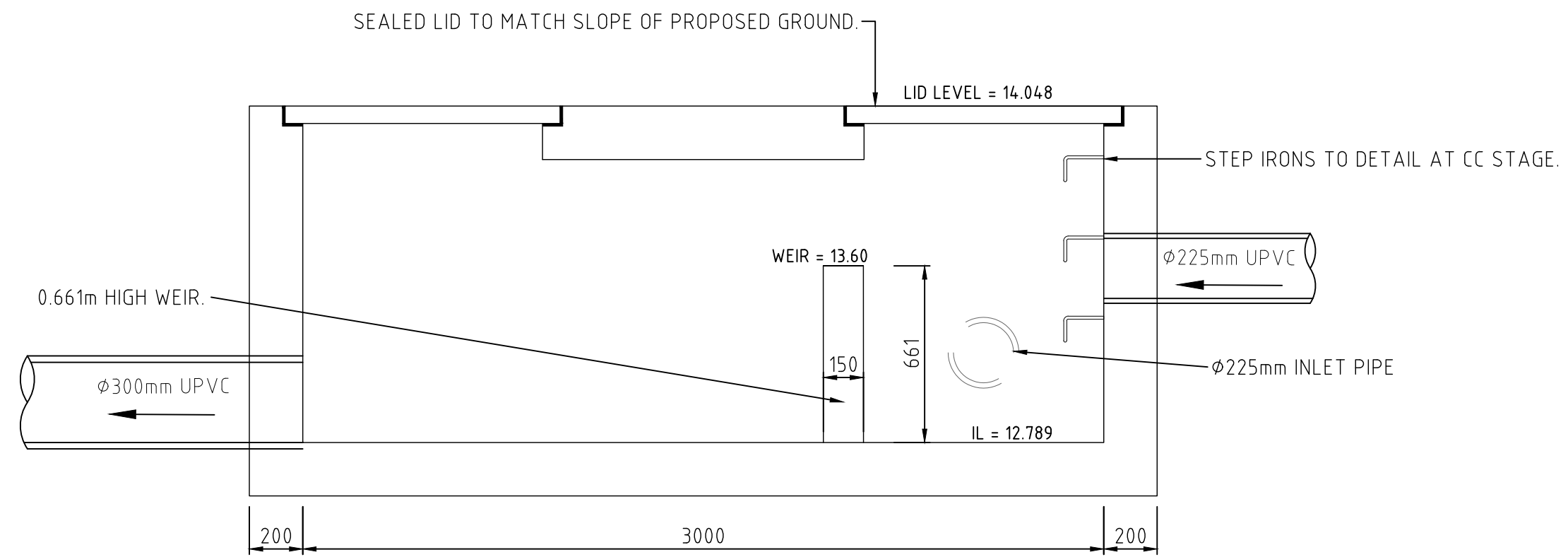
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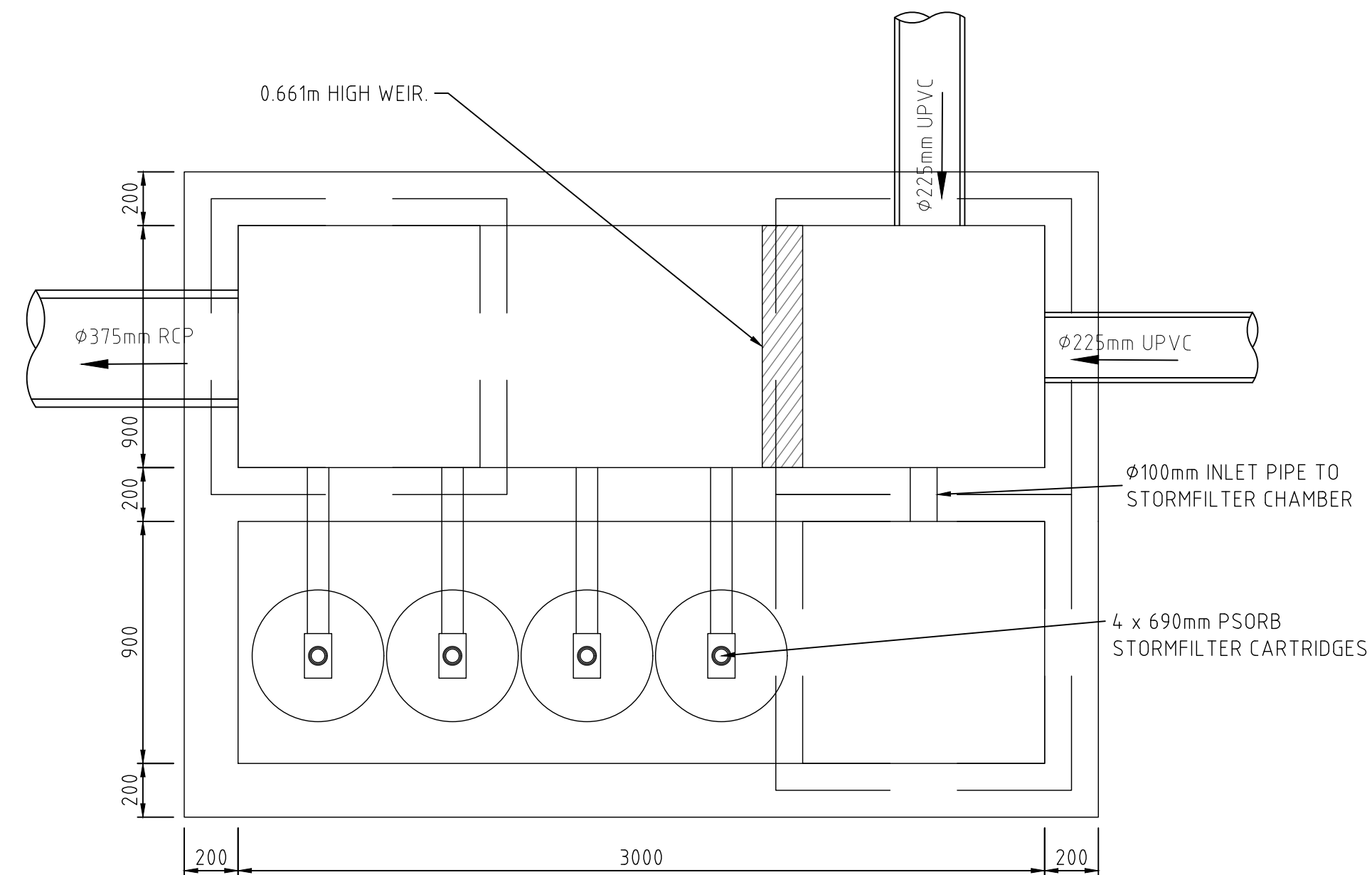
PIT A/7 STORMFILTER PIT - SECTION
SCALE 1:20



PIT A/7 STORMFILTER PIT - PLAN
SCALE 1:20



PIT A/7 STORMFILTER PIT - SECTION
SCALE 1:20



PIT C/11 STORMFILTER PIT - PLAN
SCALE 1:20

B2.1 - PIT A/7 DISCHARGE CONTROL

ORIFICE PIPE DIAMETER	=	100 mm
NUMBER OF PIPES	=	1
CENTRE OF ORIFICE LEVEL	=	12.80 m
WEIR LEVEL	=	13.65 m
WEIR LENGTH	=	0.90 m

ARI (YEARS)	DISCHARGE IN (L/S)	MAX WATER LEVEL	DISCHARGE ORIFICE	DISCHARGE WEIR	DISCHARGE TOTAL
0.25	20.0	13.65	19.0		19.0
10	105.0	13.87	21.4	77.5	99.0

B2.2 - PIT C/11 DISCHARGE CONTROL

ORIFICE PIPE DIAMETER	=	100 mm
NUMBER OF PIPES	=	1
CENTRE OF ORIFICE LEVEL	=	12.99 m
WEIR LEVEL	=	13.60 m
WEIR LENGTH	=	0.90 m

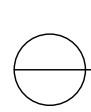
ARI (YEARS)	DISCHARGE IN (L/S)	MAX WATER LEVEL	DISCHARGE ORIFICE	DISCHARGE WEIR	DISCHARGE TOTAL
0.25	20.0	13.60	15.9		15.9
10	60.0	13.74	17.8	39.4	57.1

REVISIONS

No.	DESCRIPTION	DRN	APP	DATE
B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25
C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25
D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25
E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25
F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25



Site Plus Pty Ltd ABN 73 104 315 095



engineering

landscape

design

flooding

management

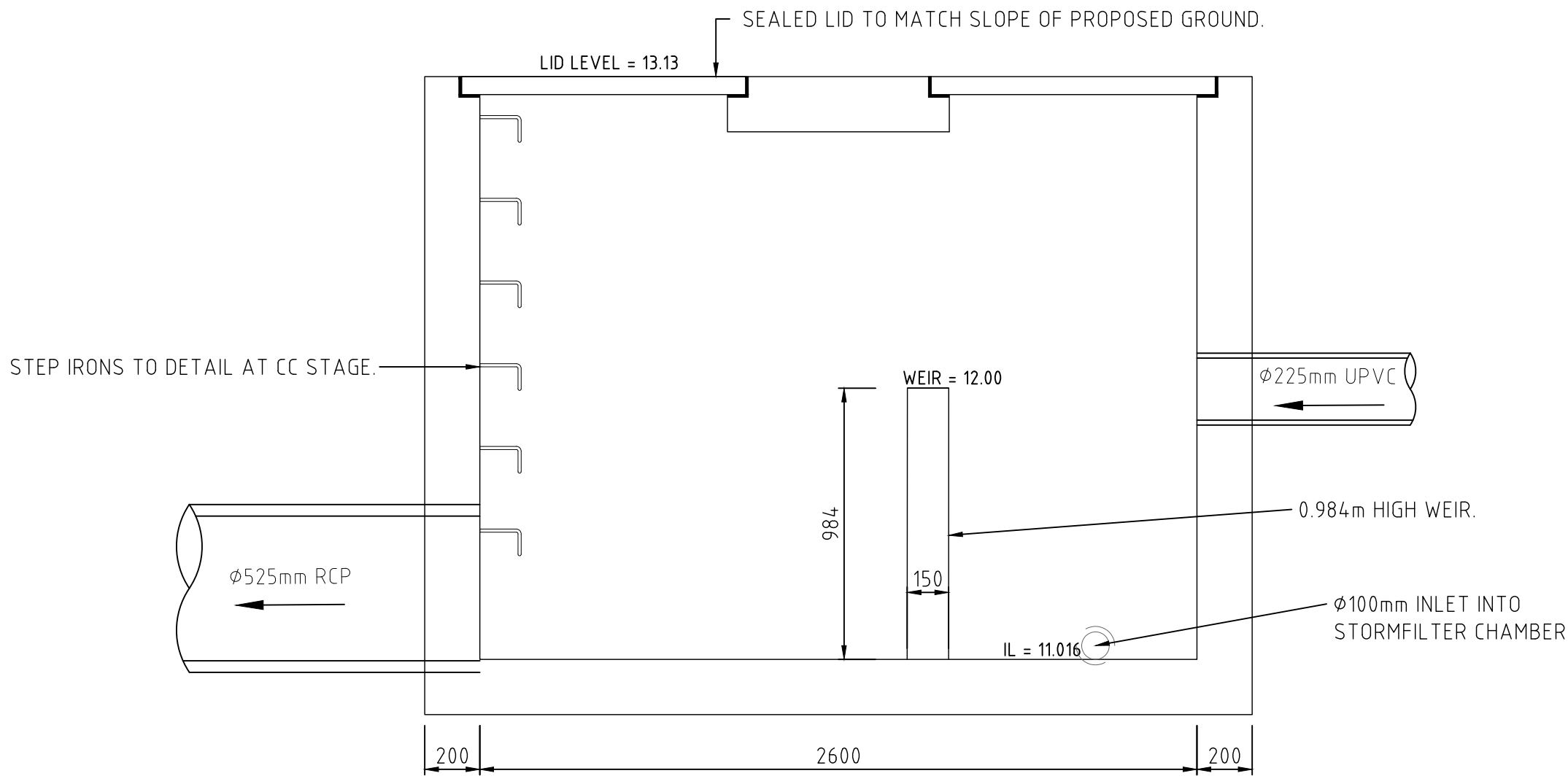
WOLLONGONG - HEAD OFFICE
Shop 1, 18 Arrow Avenue
Figtree NSW 2555
PO Box 506
Figtree NSW 2525
T 61 2 4227 4233
F 61 2 4227 4133
E info@siteplus.com.au

Height Datum	A.H.D.
Drawn	I.B.
Designed	I.B.
Checked	A.C.
Approved	A.C.

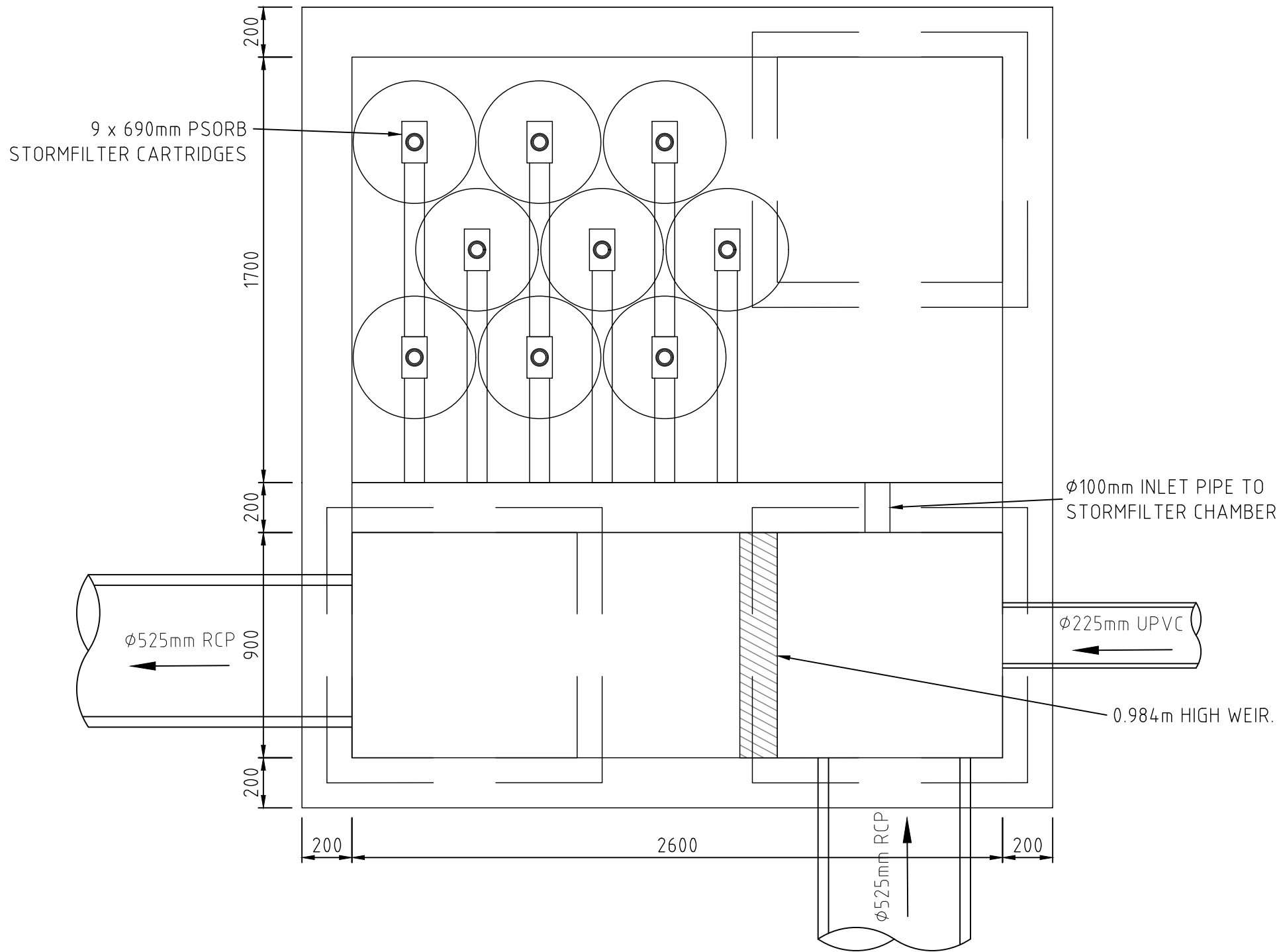
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Dwg Status	APPROVAL
Local Authority	WOLLONGONG

Dwg Title	PROPOSED RESIDENTIAL DEVELOPMENT 27 RAILWAY STREET, CORRIMAL
Ref & Dwg No	25152.DA.C20
Sheet No	20 of 27
Scale	AS NOTED @ A1
Date	03.11.25
Rev	F
A1	

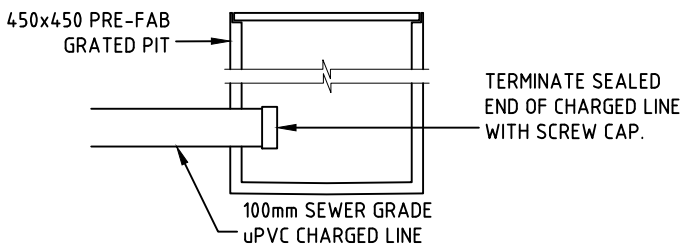
DRAINAGE DETAILS 1



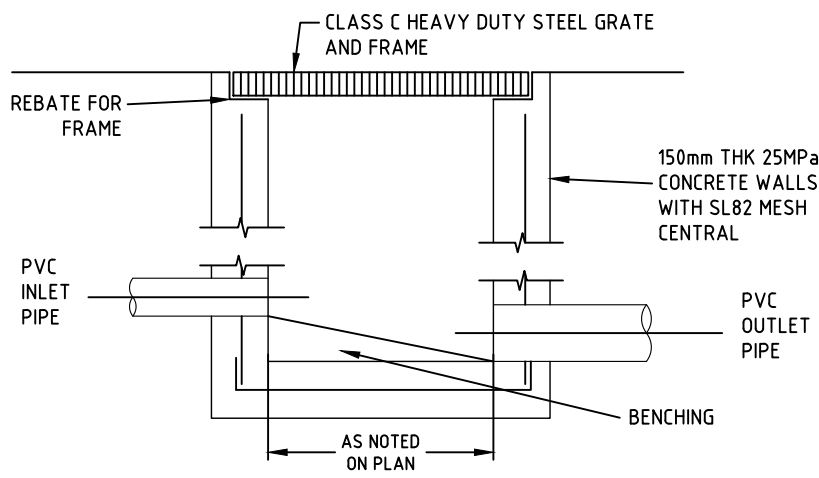
PIT E/13 STORMFILTER PIT - SECTION
SCALE 1:20



PIT E/13 STORMFILTER PIT - PLAN
SCALE 1:20



CHARGED LINE CLEAN OUT PIT
SCALE 1:20



TYPICAL PIT DETAIL
SCALE 1:20

B2.3 & B2.4 - PIT E/13 DISCHARGE CONTROL					
ORIFICE PIPE DIAMETER		=	100 mm		
NUMBER OF PIPES		=	1		
CENTRE OF ORIFICE LEVEL		=	11.07 m		
WEIR LEVEL		=	12.00 m		
WEIR LENGTH		=	0.90 m		
ARI (YEARS)	DISCHARGE IN (L/S)	MAX WATER LEVEL	DISCHARGE ORIFICE	DISCHARGE WEIR	DISCHARGE TOTAL
0.25	20.0	12.00	20.0		20.0
10	200.0	12.37	23.8	169.1	192.9



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Shop 1, 18 Arrow Avenue
Figtree NSW 2555
PO Box 506
Figtree NSW 2555
T 61 2 4227 4233
F 61 2 4227 4133
E info@siteplus.com.au

Height Datum	A.H.D.
Drawn	I.B.
Designed	I.B.
Checked	A.C.
Approved	A.C.

Client Title		LEGACY PROPERTY GROUP
		C/-
		CHESTER PROJECT MANAGEMENT
Dwg Status	APPROVAL	Local Authority
		WOLLONGONG

Dwg Title		PROPOSED RESIDENTIAL DEVELOPMENT
		27 RAILWAY STREET, CORRIMAL
		DRAINAGE DETAILS 2

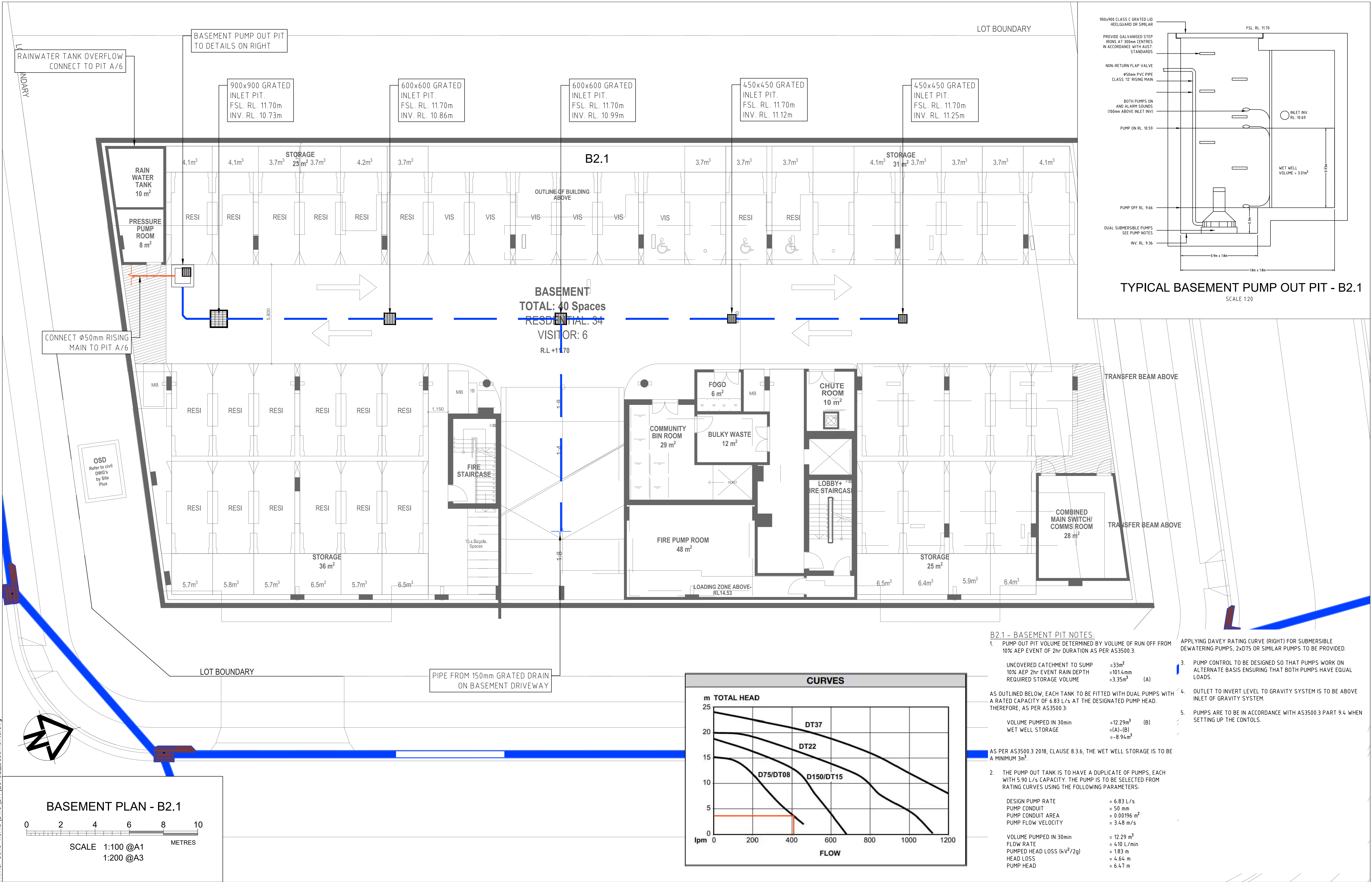
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Sheet No	21 of 27
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Date	03.11.25
Rev	F
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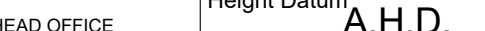
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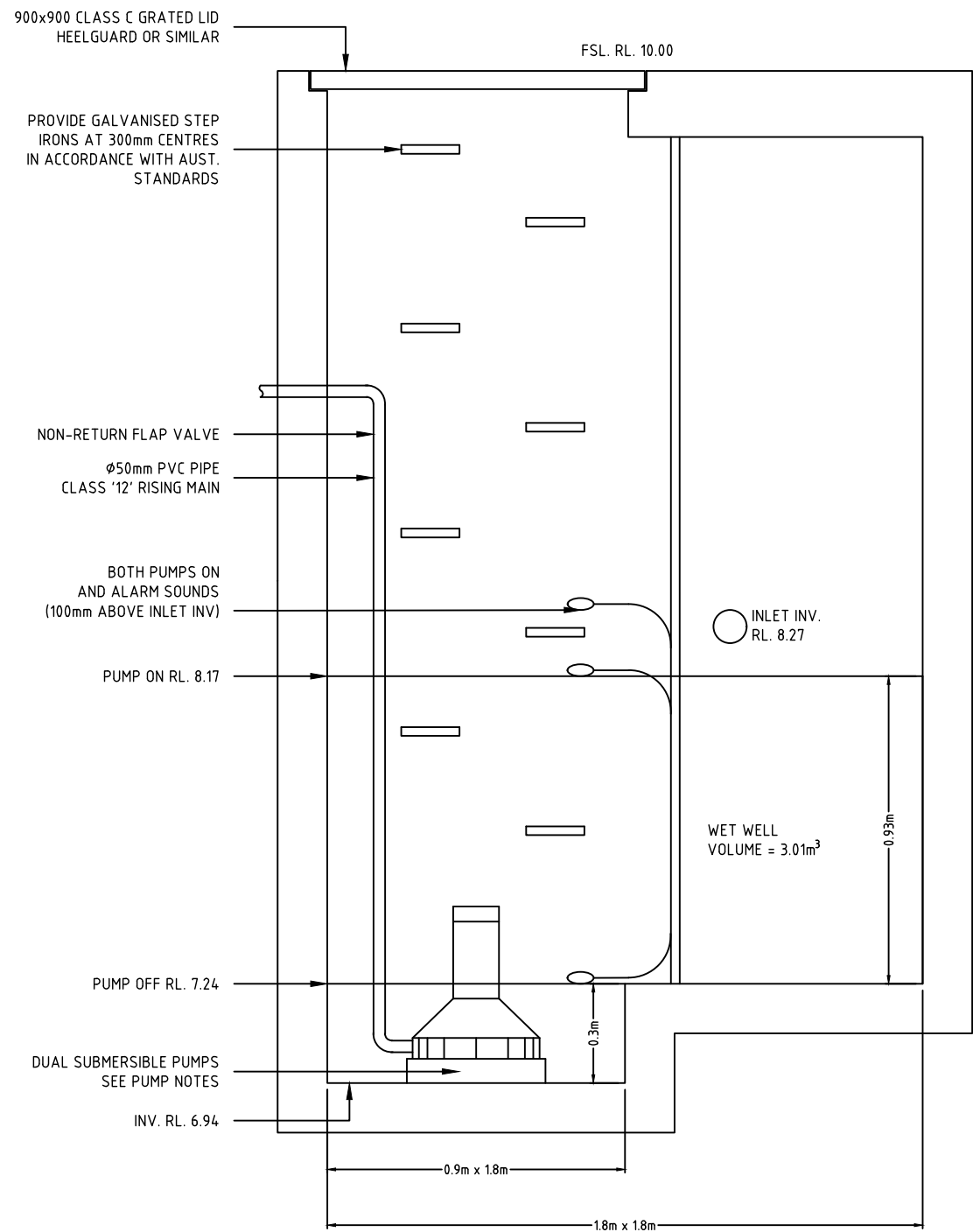
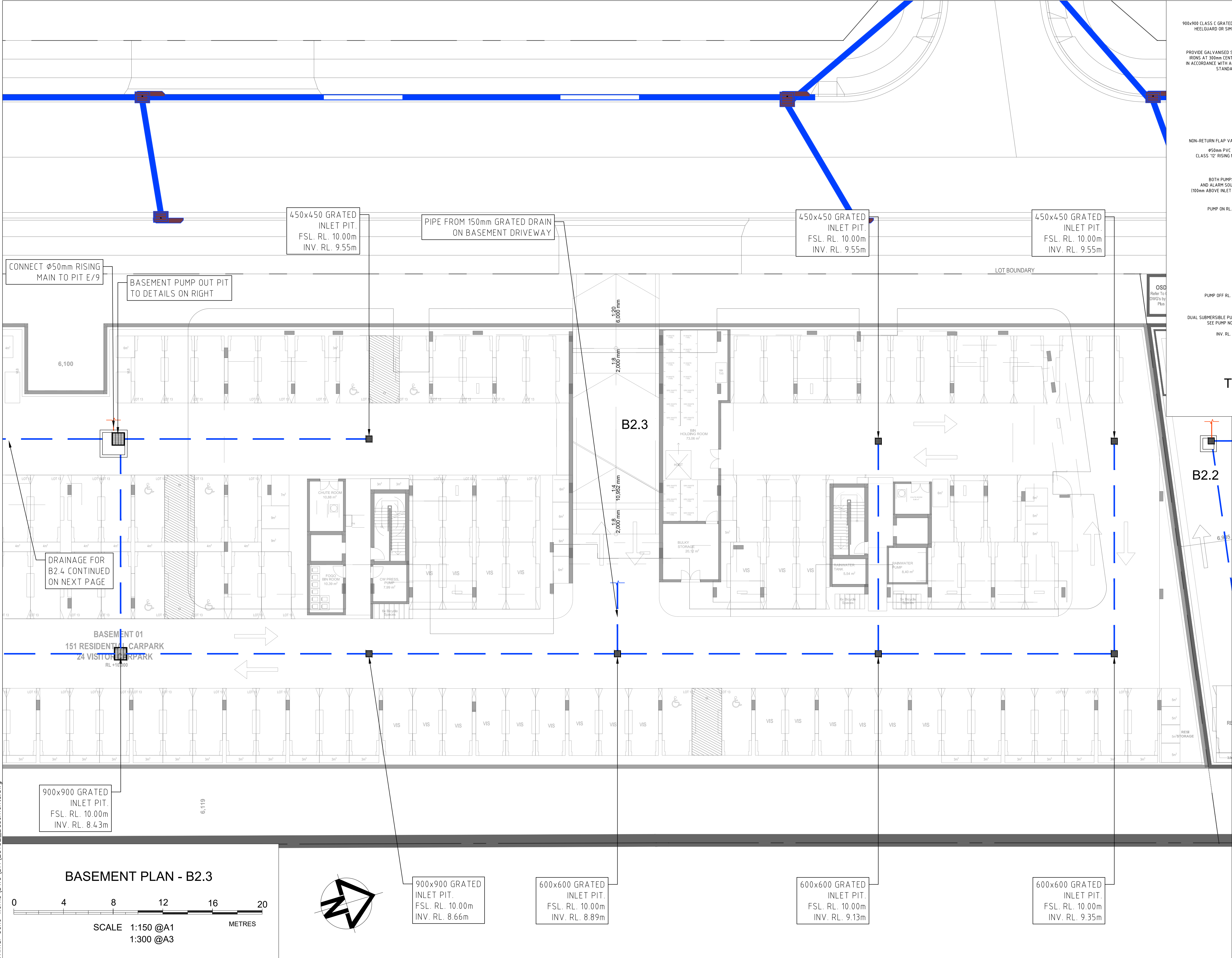
No.	DESCRIPTION
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C	REVISED TO UPDATED ARCH
D	REVISED TO UPDATED ARCH
E	REVISED EXISTING SURFACE
F	SUBSTATION EASEMENT

DRN	APP	DATE
I.B.	A.C.	19.09.25
I.B.	A.C.	26.09.25
I.B.	A.C.	14.10.25
I.B.	A.C.	03.11.25
I.B.	a.c.	03.11.25



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REVISIONS	No.	DESCRIPTION	DRN	APP	DATE	 Site Plus Pty Ltd ABN 73 104 315 095	 engineering	 landscape	 design	 flooding	 management	Height Datum	A.H.D.	Client Title	LEGACY PROPERTY GROUP		Dwg Title	PROPOSED RESIDENTIAL DEVELOPMENT		Ref & Dwg No	25152.DA.C22											
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	C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25							Designed	I.B.																			
	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25							Checked	A.C.																			
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25							Approved	A.C.										Dwg Status	APPROVAL	Local Authority	WOLLONGONG	BASEMENT PLAN 1 - B2.1	Date	03.11.25	Rev	F	A1
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25																											



TYPICAL BASEMENT PUMP OUT PIT - B2.3
SCALE 1:20

B2.3 - BASEMENT PIT NOTES:

1. PUMP OUT PIT VOLUME DETERMINED BY VOLUME OF RUN OFF FROM 10% AEP EVENT OF 2hr DURATION AS PER AS3500.3.

UNCOVERED CATCHMENT TO SUMP	=55m ²	
10% AEP 2hr EVENT RAIN DEPTH	=101.4mm	
REQUIRED STORAGE VOLUME	=5.58m ³	(A)

AS OUTLINED BELOW, EACH TANK TO BE FITTED WITH DUAL PUMPS WITH A RATED CAPACITY OF 5.83 L/s AT THE DESIGNATED PUMP HEAD. THEREFORE, AS PER AS3500.3:

VOLUME PUMPED IN 30min	=9.90m ³	(B)
WET WELL STORAGE	=(A)-(B)	=-4.32m ³

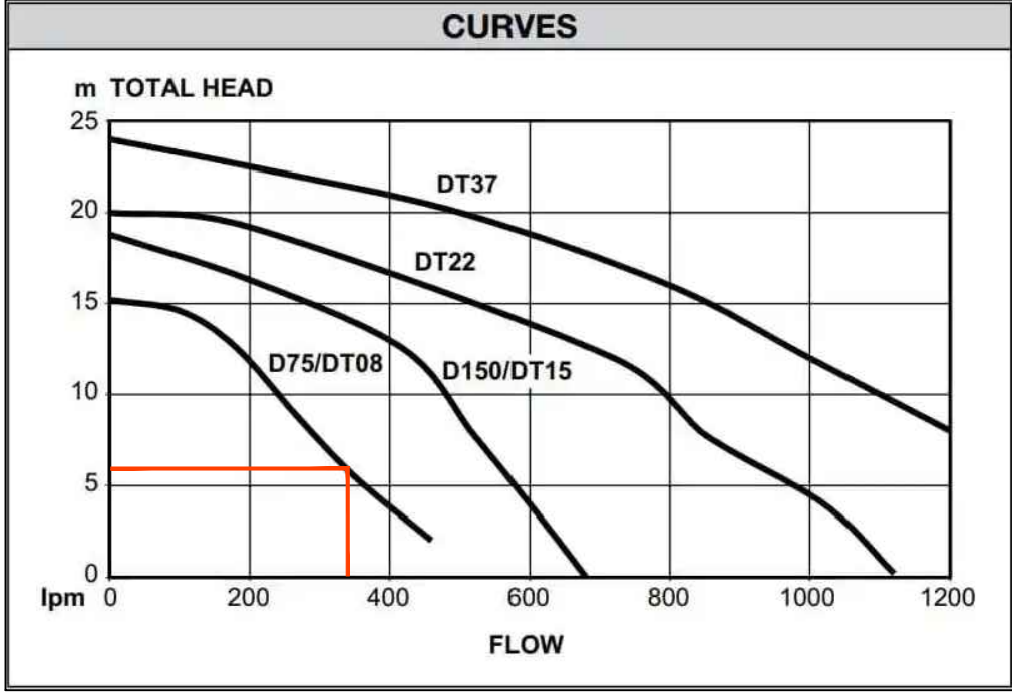
AS PER AS3500.3 2018, CLAUSE 8.3.6, THE WET WELL STORAGE IS TO BE A MINIMUM 3m³.

2. THE PUMP OUT TANK IS TO HAVE A DUPLICATE OF PUMPS, EACH WITH 5.83 L/s CAPACITY. THE PUMP IS TO BE SELECTED FROM RATING CURVES USING THE FOLLOWING PARAMETERS:

DESIGN PUMP RATE	= 5.83 L/s
PUMP CONDUIT	= 50 mm
PUMP CONDUIT AREA	= 0.00196 m ²
PUMP FLOW VELOCITY	= 2.98 m/s
VOLUME PUMPED IN 30min	= 10.49 m ³
FLOW RATE	= 350 L/min
PUMPED HEAD LOSS (kV ² /2g)	= 1.34 m
HEAD LOSS	= 6.06 m
PUMP HEAD	= 7.40 m

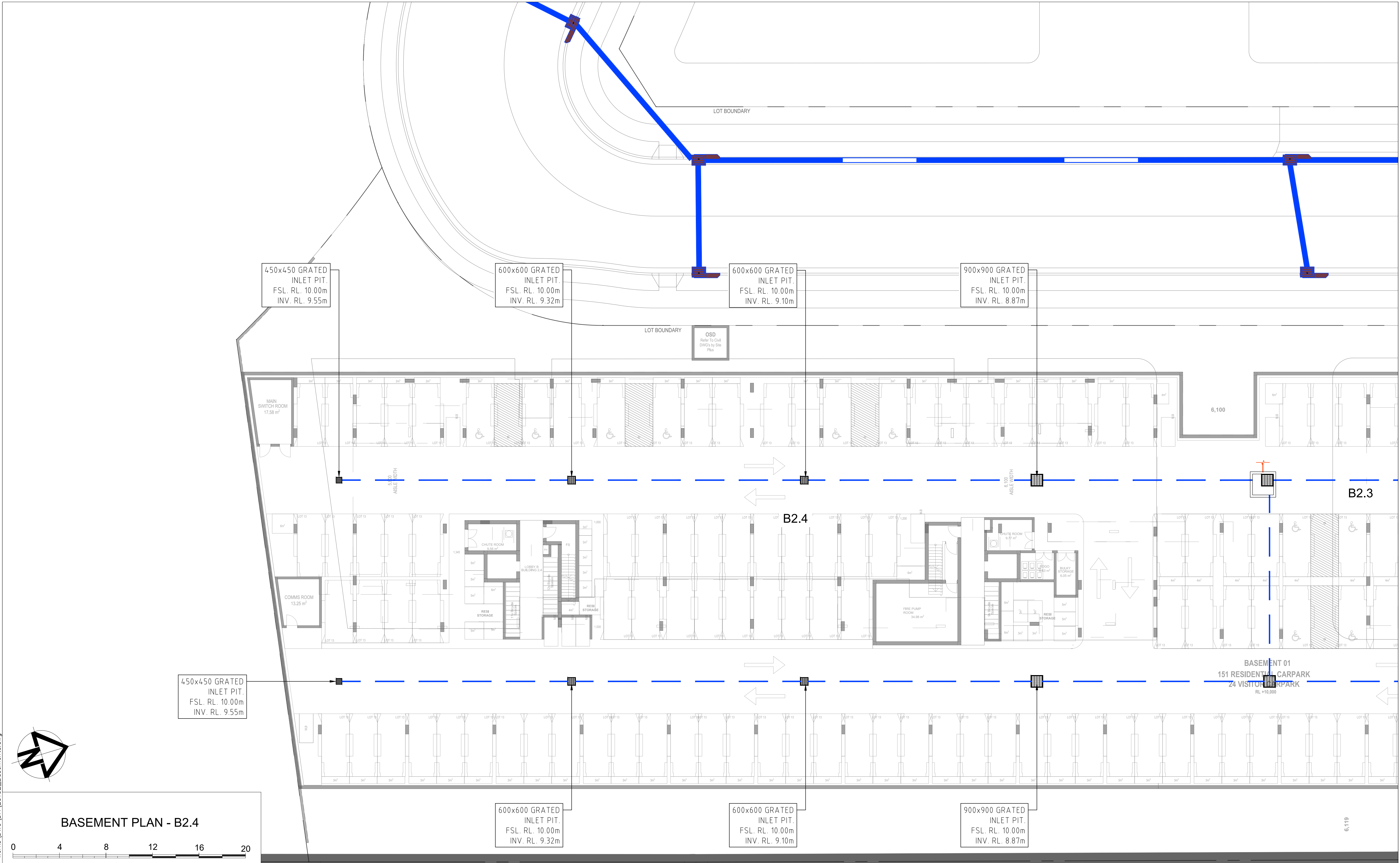
APPLYING DAVEY RATING CURVE (RIGHT) FOR SUBMERSIBLE DEWATERING PUMPS, 2xDT5 OR SIMILAR PUMPS TO BE PROVIDED.

3. PUMP CONTROL TO BE DESIGNED SO THAT PUMPS WORK ON ALTERNATE BASIS ENSURING THAT BOTH PUMPS HAVE EQUAL LOADS.
4. OUTLET TO INVERT LEVEL TO GRAVITY SYSTEM IS TO BE ABOVE INLET OF GRAVITY SYSTEM.
5. PUMPS ARE TO BE IN ACCORDANCE WITH AS3500.3 PART 9.4 WHEN SETTING UP THE CONTROLS.

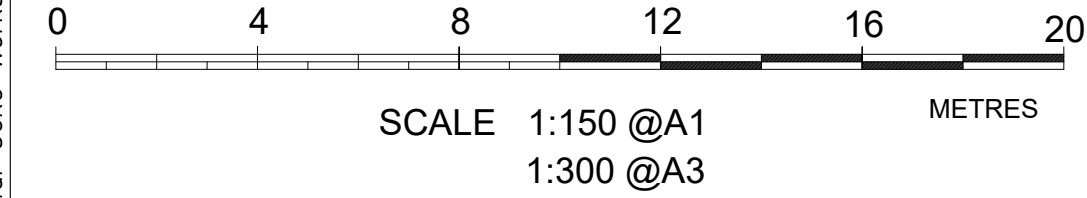


No.	DESCRIPTION	DRN	APP	DATE	Height Datum	Client Title	Dwg Title	Ref & Dwg No
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C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25	Drawn	C/-	27 RAILWAY STREET, CORRIMAL	Sheet No 24 of 27
D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25	Designed	CHESTER PROJECT MANAGEMENT		Scale 1:150 @ A1
E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25	Checked			Date 03.11.25
F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25	Approved	APPROVAL	WOLLONGONG	Rev F A1

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BASEMENT PLAN - B2.4



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	B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25						Drawn I.B. Designed I.B. Checked A.C. Approved A.C.					C/- CHESTER PROJECT MANAGEMENT					APPROVAL					WOLLONGONG					27 RAILWAY STREET, CORRIMAL					Sheet No 25 of 27						
	C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25																																					
	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25																																					
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25																																					
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25																																					
																Dwg Status					Local Authority					BASEMENT PLAN 4 - B2.4					Date	03.11.25					Rev	F A1				



Site Plus Pty Ltd ABN 73 104 315 095
engineering landscape design flooding management

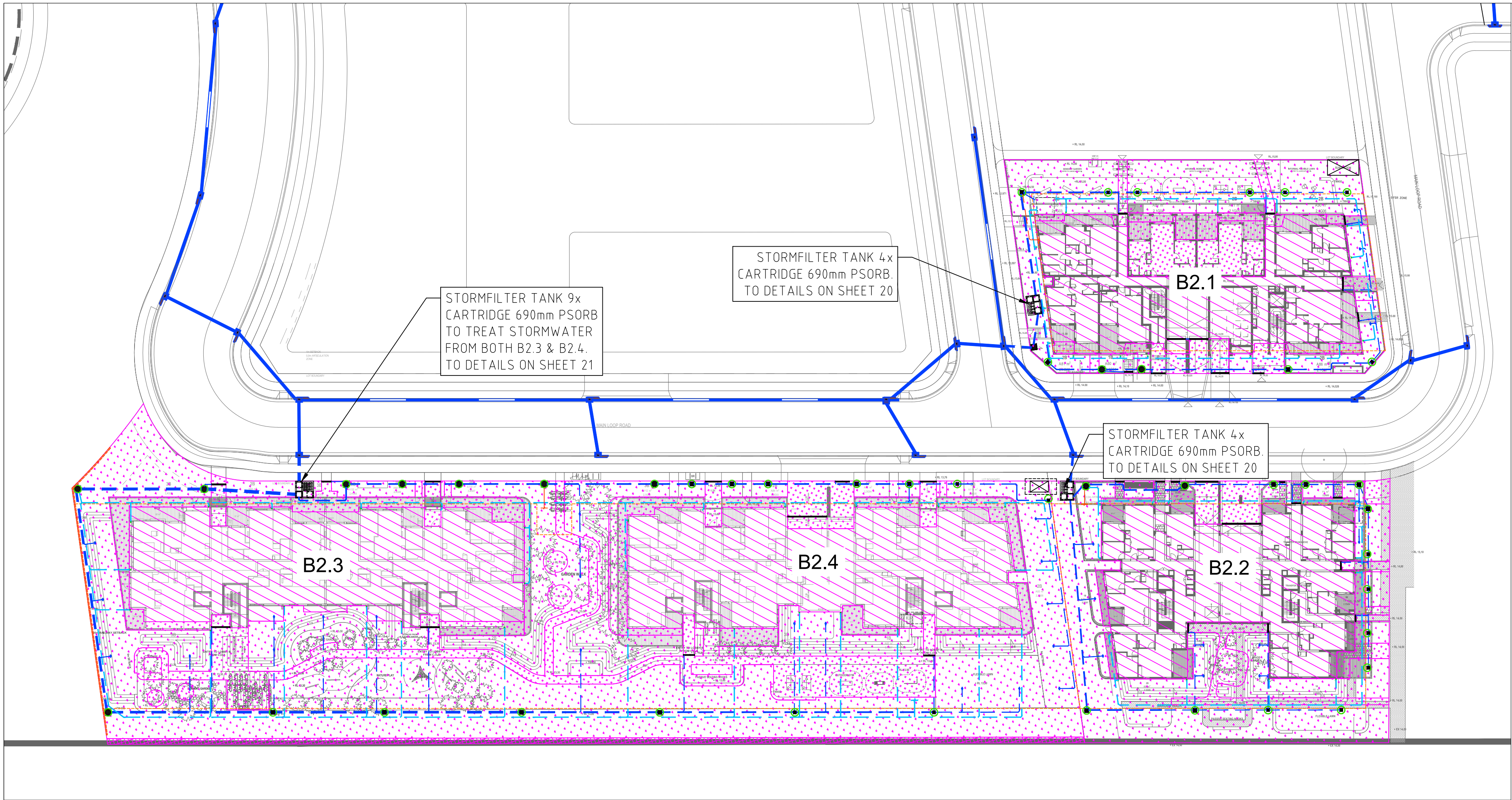
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Shop 1, 18 Arrow Avenue
Figtree NSW 2525
PO Box 506
Figtree NSW 2525
T 61 2 4227 4233
F 61 2 4227 4133
E info@siteplus.com.au

Height Datum
A.H.D.
Drawn
I.B.
Designed
I.B.
Checked
A.C.
Approved
A.C.

Client Title
LEGACY PROPERTY GROUP
C/-
CHESTER PROJECT MANAGEMENT
Dwg Status
APPROVAL
Local Authority
WOLLONGONG

Dwg Title
PROPOSED RESIDENTIAL DEVELOPMENT
27 RAILWAY STREET, CORRIMAL
BASEMENT PLAN 4 - B2.4

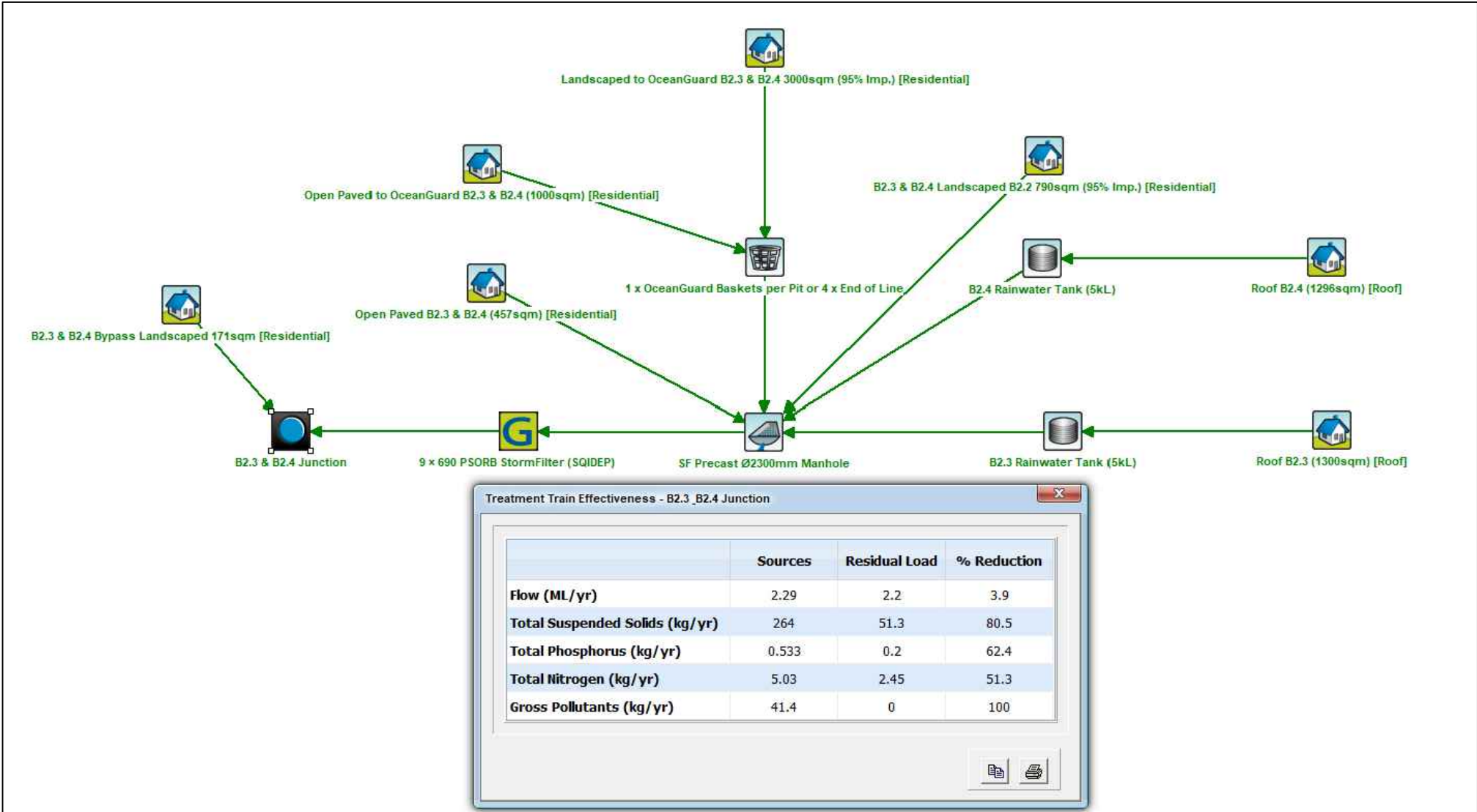
Ref & Dwg No
25152.DA.C25
Sheet No
25 of 27
Scale
1:150 @ A1
Date
03.11.25
Rev
F
A1



LEGEND

- ROOF AREA 100% IMPERVIOUS.
- PAVED AREA 100% IMPERVIOUS.
- LANDSCAPE AREA 5% IMPERVIOUS.
- BYPASS LANDSCAPE AREA 0% IMPERVIOUS.
- PITS WITH STANDARD OCEAN GUARDS (TO DETAILS BELOW)

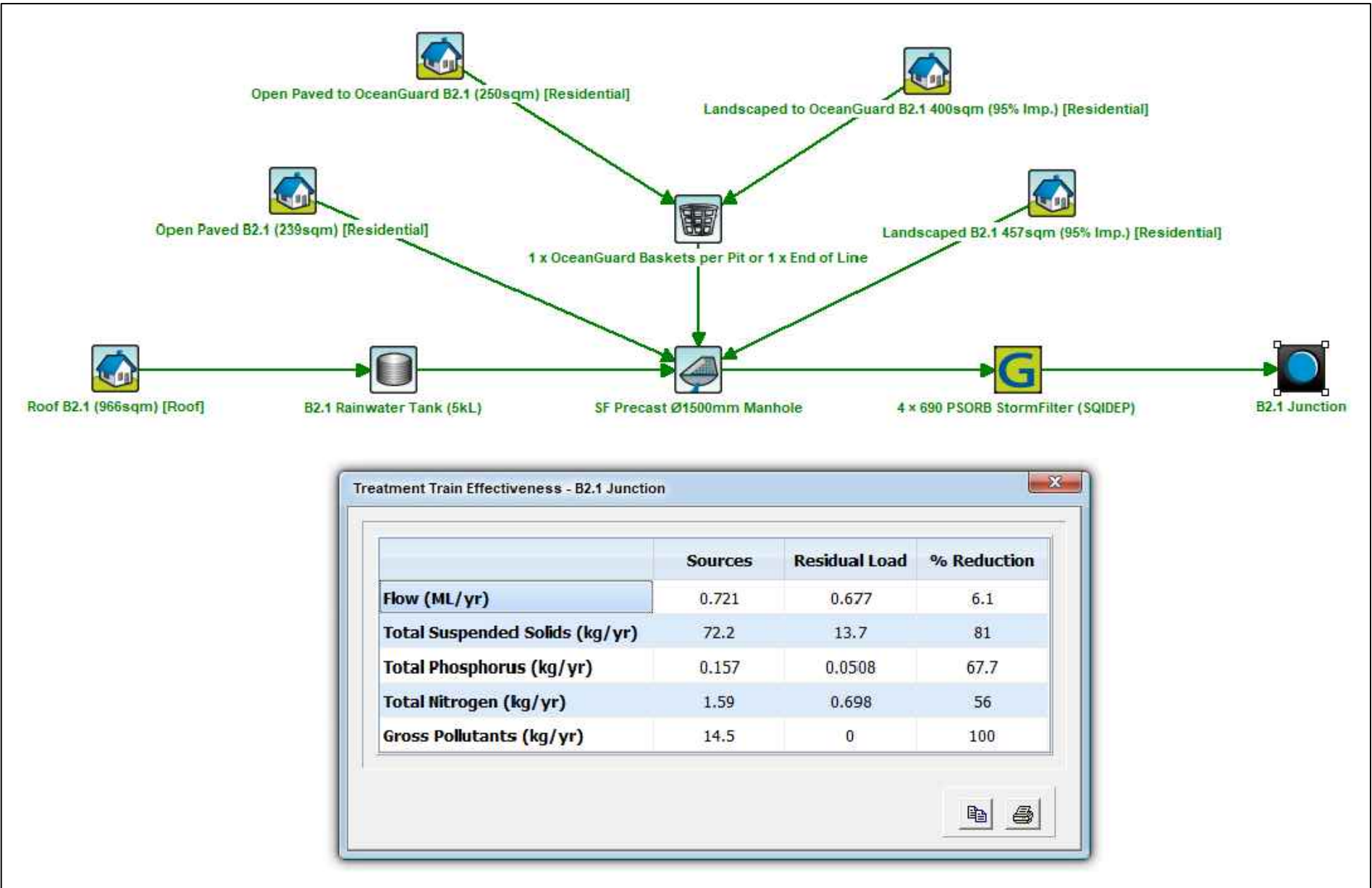
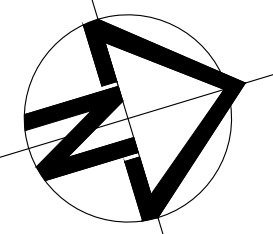
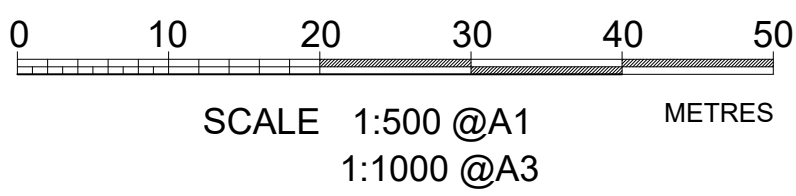
STORMFILTER DETAILS 690mm PSORB	
CARTRIDGE NAME / SIPHON HEIGHT (mm)	690
CARTRIDGE PHYSICAL HEIGHT (mm)	840
TYPICAL WEIR HEIGHT [H] (mm)	920
CARTRIDGE FLOW RATE FOR ZPG MEDIA (L/s)	1.6
CARTRIDGE FLOW RATE FOR PSORB MEDIA (L/s)	0.90



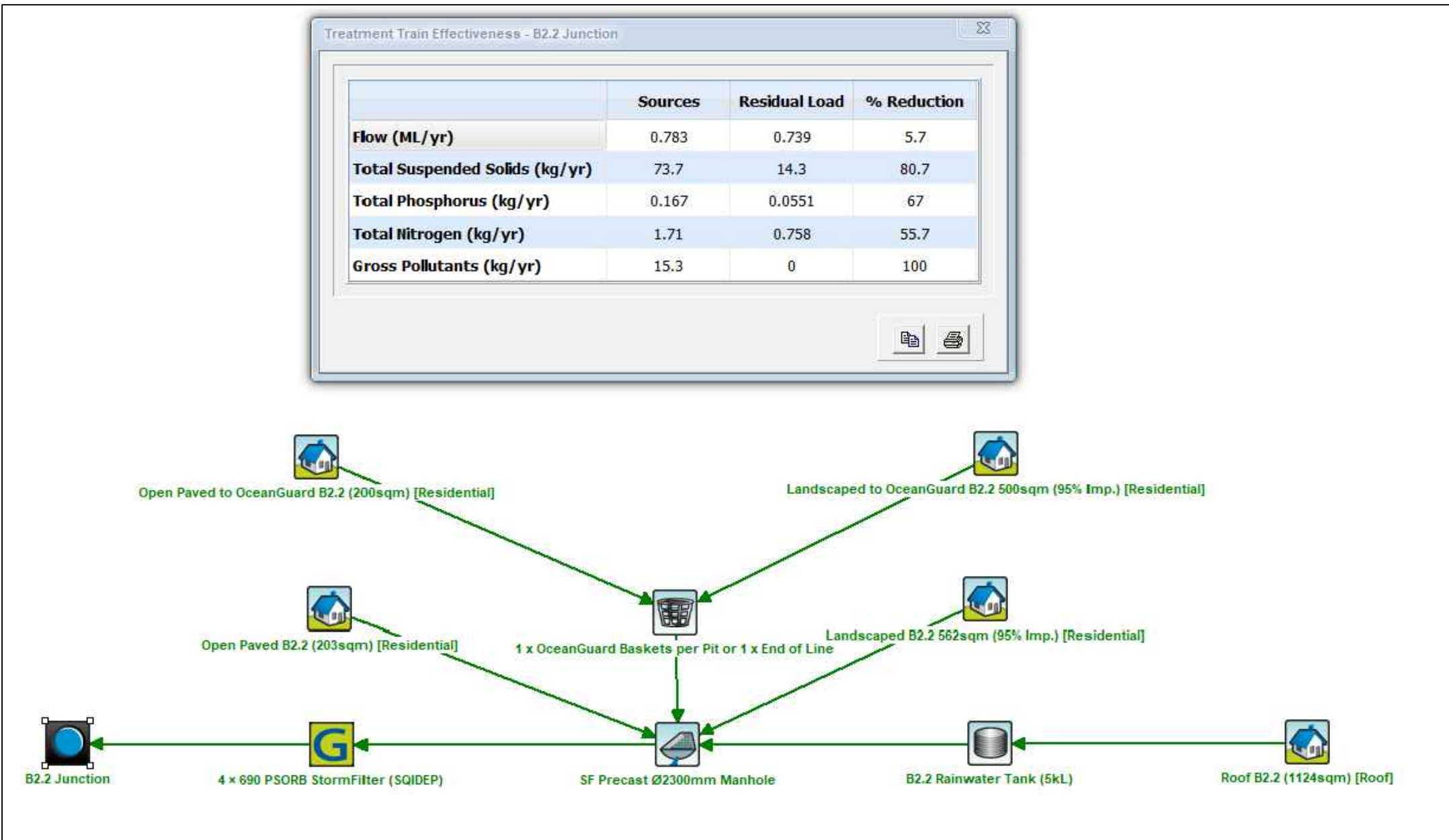
MUSIC MODEL RESULTS - B2.3 & B2.4

REFER TO MUSIC MODEL PROVIDED FOR FURTHER DETAILS

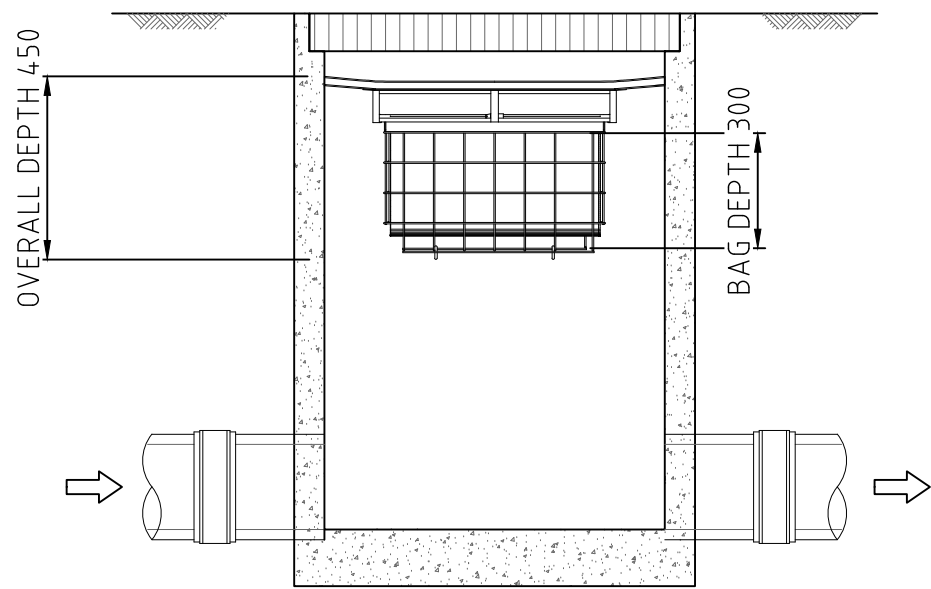
MUSIC CATCHMENT PLAN



MUSIC MODEL RESULTS - B2.1



MUSIC MODEL RESULTS - B2.2

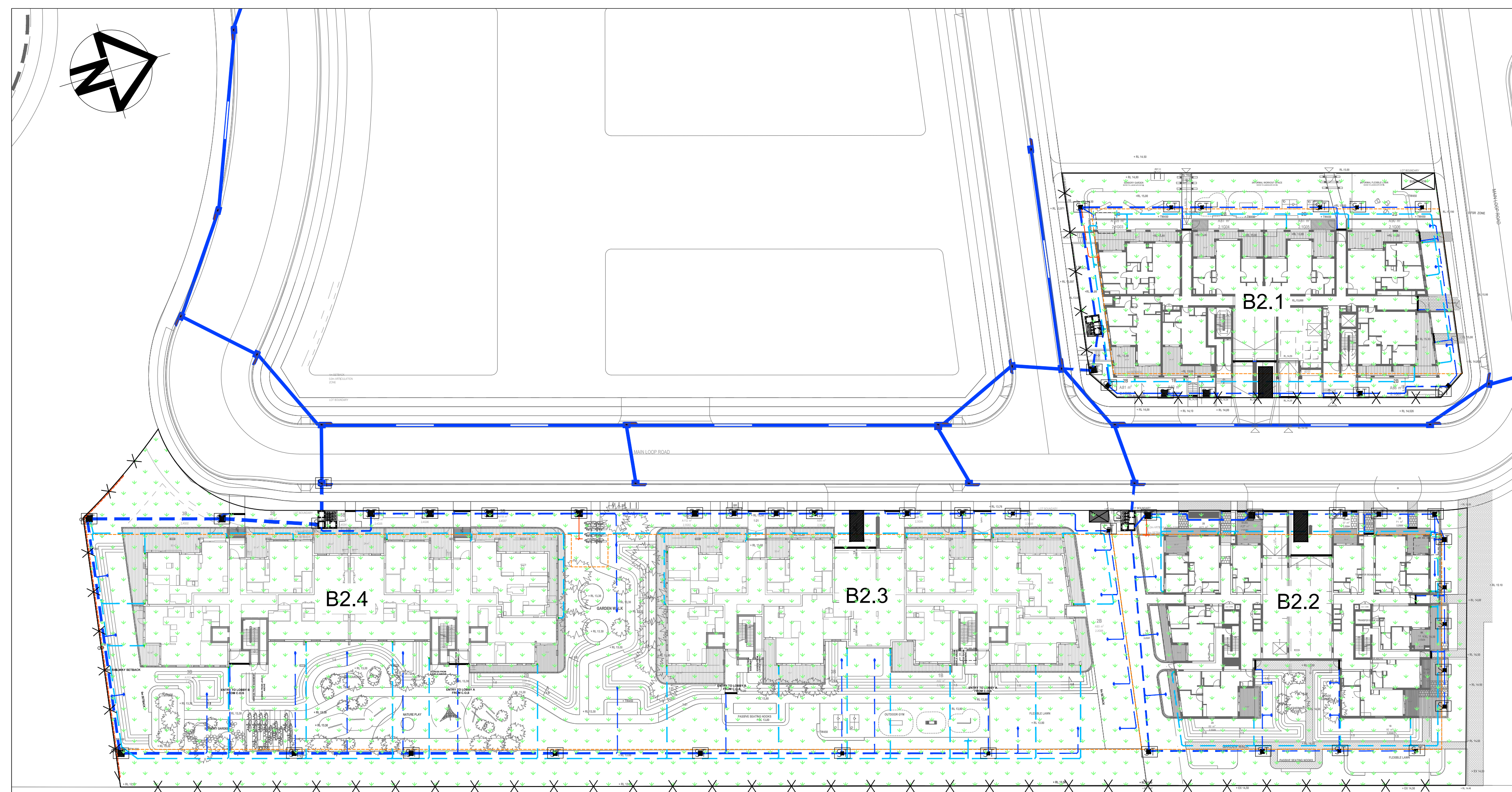


OCEANGUARD SURFACE FLOW CONFIGURATION
SCALE 1:20

NOTE: ALL GRATED PITS TO CONTAIN OCEANGUARDS.

T:\Projects\25152 Capital Coke Works\DWG\DA\25152_Drainage.dwg

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	B	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25								Drawn	I.B.	C/- CHESTER PROJECT MANAGEMENT	APPROVAL	Local Authority	WOLLONGONG	MUSIC PLAN	Sheet No	26 of 27	25152.DA.C26
	C	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25								Designed	I.B.								
	D	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25								Checked	A.C.								
	E	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25								Approved	A.C.								
	F	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25												Date	03.11.25	Rev	F	A1	

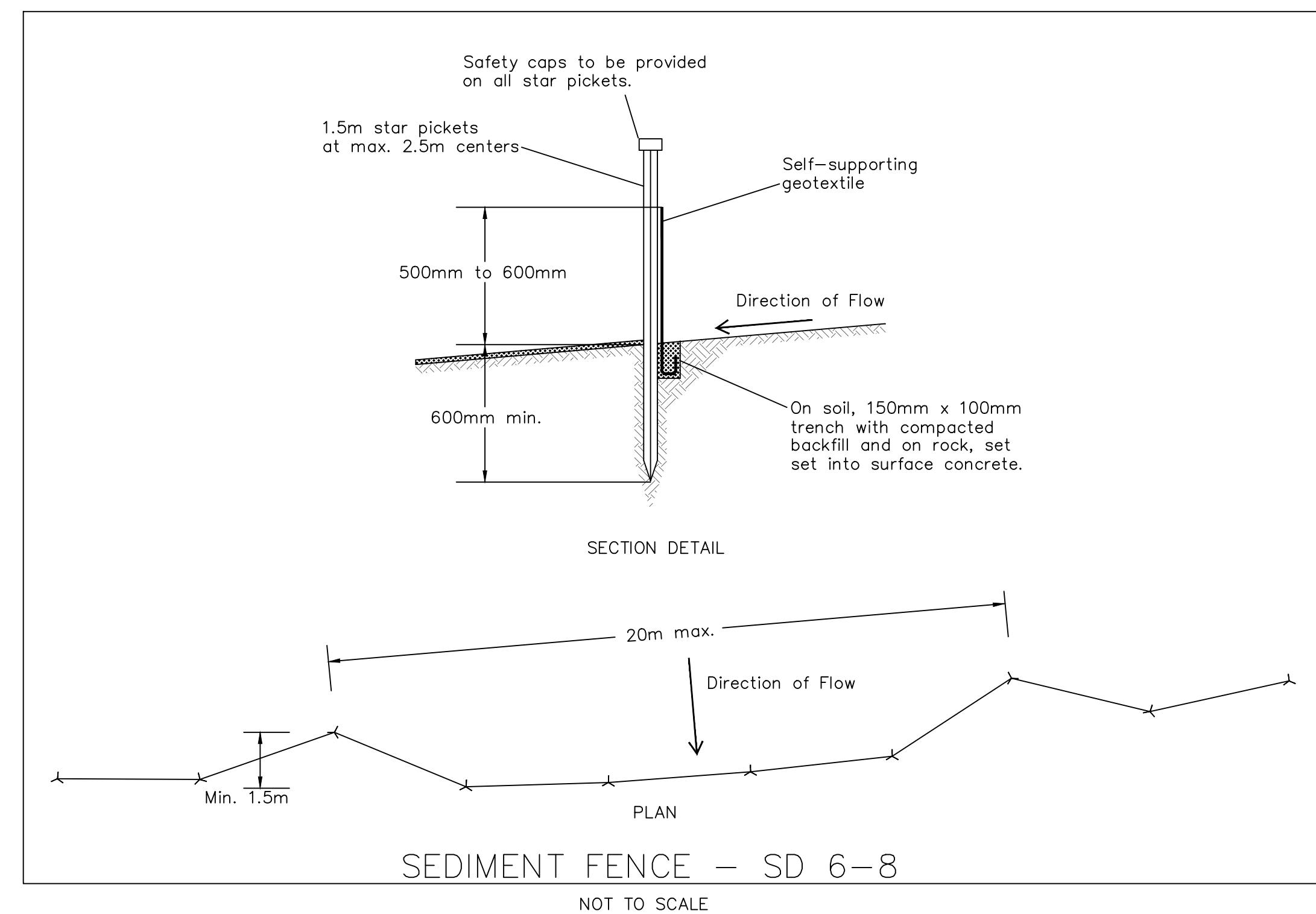
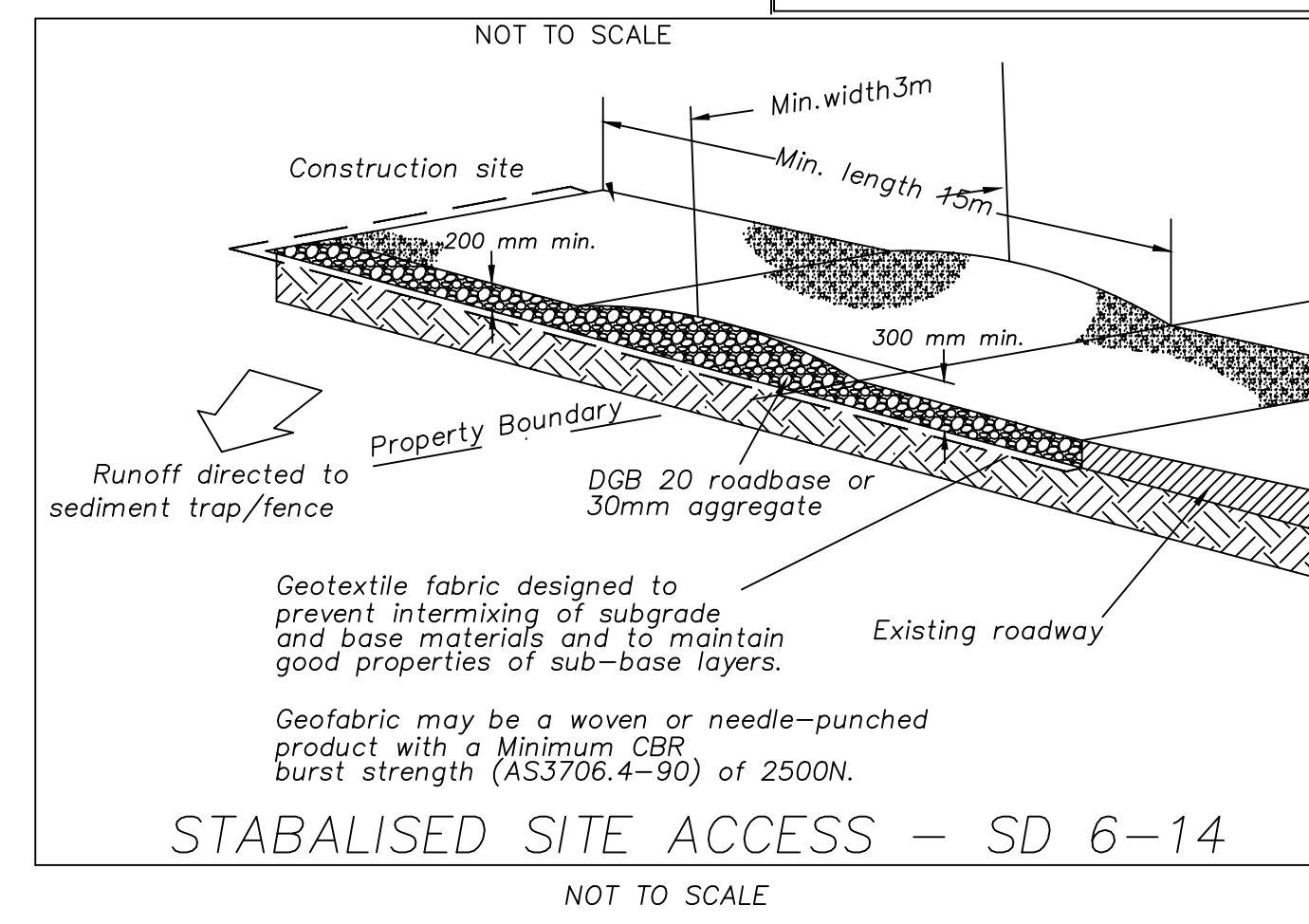
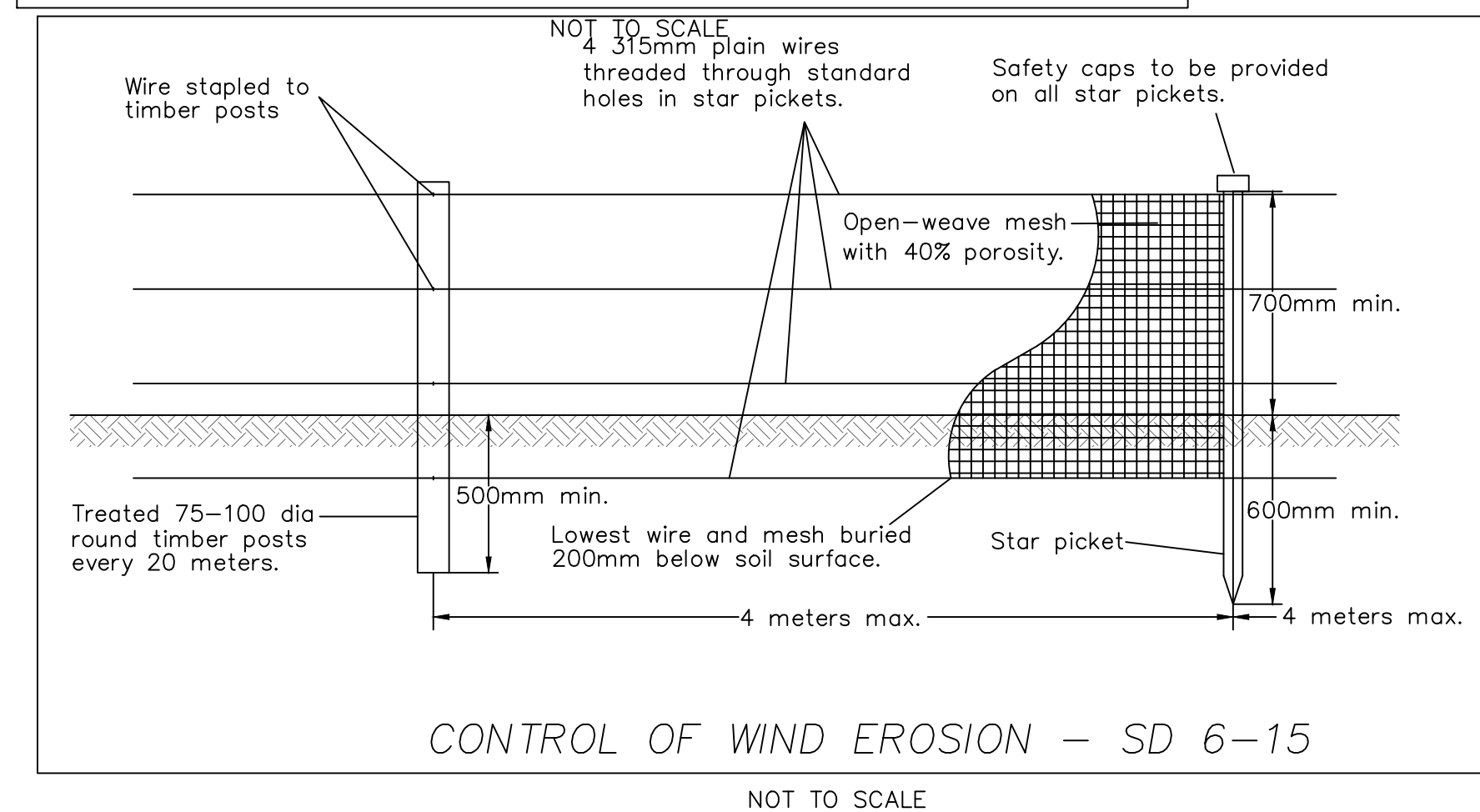
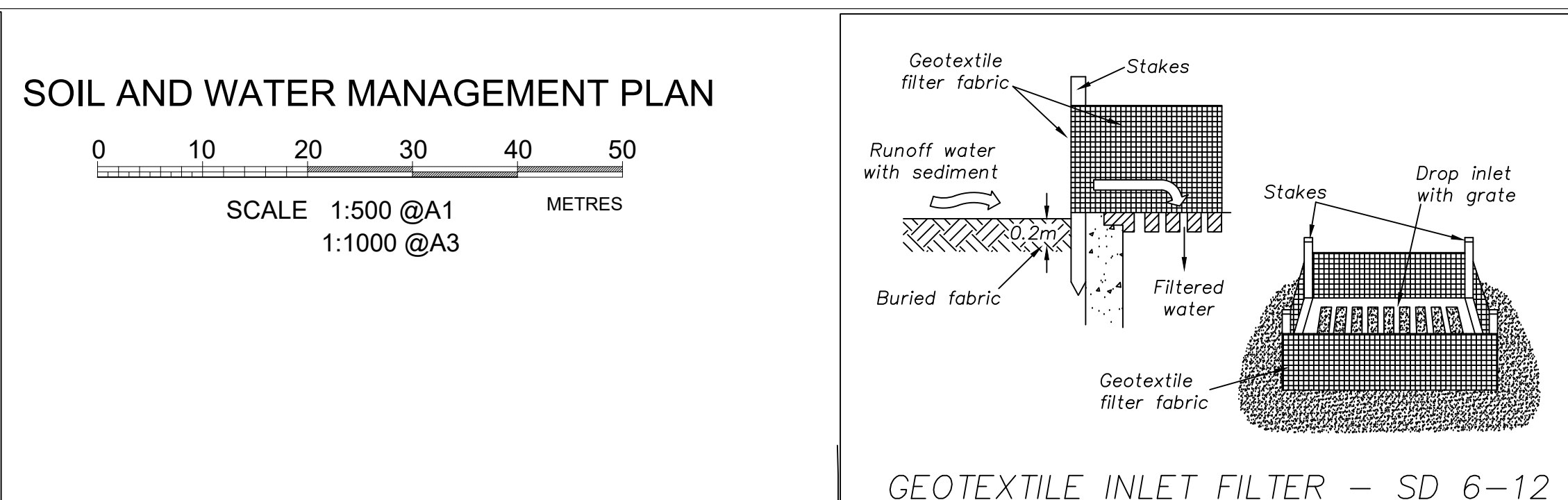
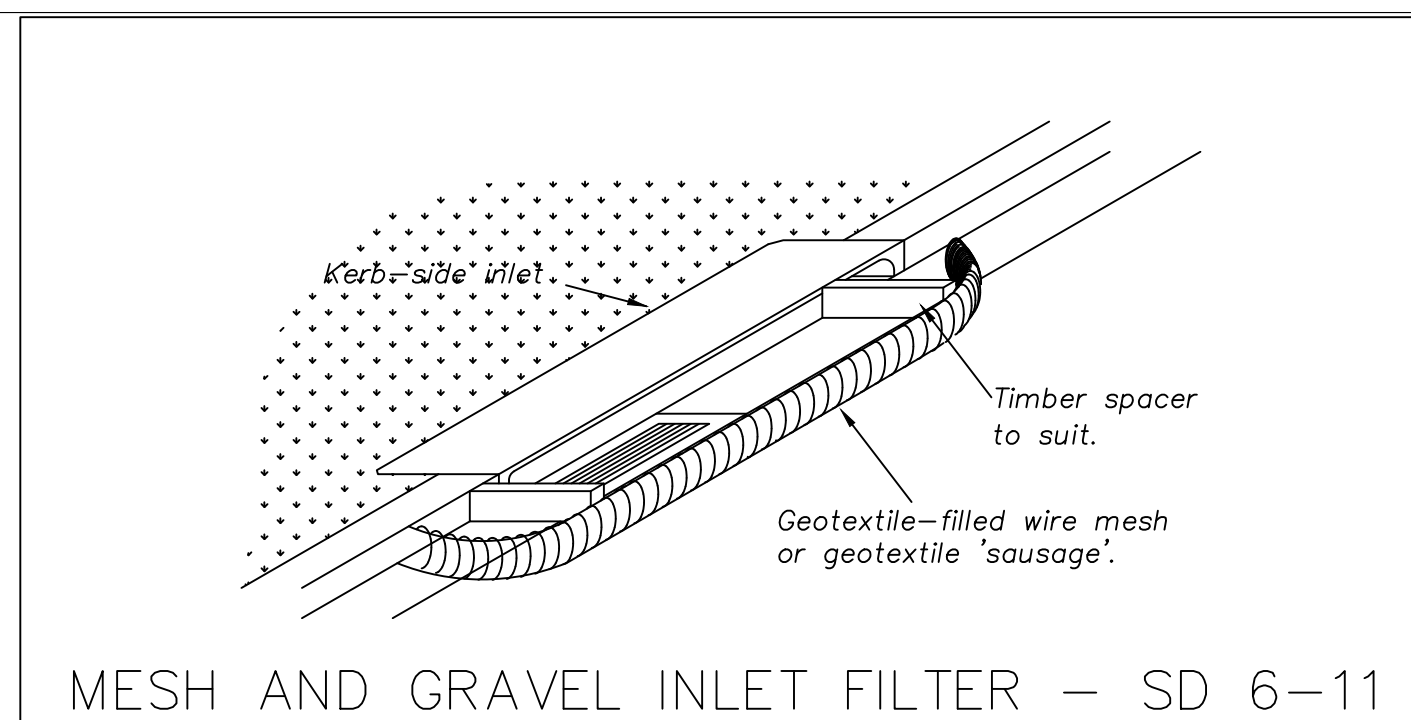


- LEGEND PROPOSED**

 - LEVEL SPREADER
 - STORMWATER PIPE
 - GRATED PIT
 - JUNCTION PIT
 - KERB INLET PIT
 - SEDIMENT FENCE
 - SEDIMENT TRAP
 - STABILISED CONSTRUCTION EXIT
 - DISTURBED AREA
 - DIVERSION BANK AND CHANNEL
 - BARRIER FENCE
 - DIVERSION BANK ONLY

STATEMENT OF SOIL MANAGEMENT

- 1 ALL TOPSOIL IS TO BE STOCKPILED IN AREAS DESIGNATED ON PLAN.
- 2 ALL FORMED EMBANKMENTS (CUT & FILL) ARE TO BE SEEDED WITHIN 7 DAYS
- 3 ALL DISTURBED AREAS INCLUDING ANY CONTROLLED FILL ARE TO BE TOPSOILED & SEEDDED PRIOR TO COMPLETION OF WORKS. ALL DISTURBED AREAS THAT WILL NOT BE STABILIZED WITHIN 2 MONTHS MUST BE TEMPORARILY REVEGETATED WITHIN 7 DAYS OF CLEARING AREAS THAT FAIL TO ESTABLISH MUST BE RESOWN IMMEDIATELY.
- 4 ALL GULLY PITS ARE TO BE PROVIDED WITH SEDIMENT FILTER BARRIERS SUCH AS STRAW BAIL OR SANDBAGS.
- 5 PROVIDE TEMPORARY DIVERSION BANKS ON SITE AS DIRECTED.
- 6 AT THE TOP OF ALL FILL EMBANKMENTS, PROVIDE A BERM TO PREVENT WATER RUNNING DOWN EMBANKMENTS, BERM IS TO BE MAINTAINED AT ALL TIMES AS THE FILL EMBANKMENT PROGRESSES TO FINAL LEVEL
- 7 ALL FORMED EMBANKMENTS (CUT & FILL) ARE TO BE TOPSOILED & SEEDDED/FERTILIZED ON FINAL TRIMMING.
- 8 FOR TEMPORARY REVEGETATION PURPOSES, THE REVEGETATION MIXTURE SHOULD BE TO COUNCIL SPECIFICATIONS
- 9 TRENCHES FOR INTERLOT DRAINAGE LINES ARE TO BE REINSTATED WITH TOPSOIL FOLLOWING PIPE INSTALLATION & BACKFILLING & IMMEDIATELY SEEDDED/FERTILIZED
- 10 THE GROUND SHALL BE TYNED / SCARIFIED TO A MIN DEPTH 100mm PRIOR TO SEEDING
- 11 CONTRACTOR SHOULD LIAISE REGULARLY WITH ENGINEER TO DETERMINE AREAS WHICH CAN BE PROGRESSIVELY REVEGETATED
- 12 TO ASSIST IN DUST CONTROL/WIND EROSION A TRAFFICIFIER SUCH AS CUROSOL SHOULD BE USED. OR EQUIVALENT ENDORSED PRODUCT BY EPA, RATES AS PER MANUFACTURES SPECIFICATION
- 13 DESIGNATED PLANT AND MACHINERY ACCESSWAYS TO BE DEFINED ON SITE BY THE INSTALLATION OF PARABEWEAVING FENCING TO MINIMIZE UNNECESSARY SITE DISTURBANCE
- 14 IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN SOIL EROSION CONTROL DEVICES AND CONTROL DUST.
- 15 A LOG BOOK IS TO BE MAINTAINED ON SITE, MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:
 - (i) THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS;
 - (ii) THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS AND WHETHER IT IS LIKELY TO BE EFFECTIVE UNTIL THE NEXT AUDIT;
 - (iii) INSTALLATION, REMOVAL & REPAIRS OF ANY EROSION CONTROLS;
 - (iv) THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE;
 - (v) THE NEED FOR DUST PREVENTION STRATEGIES;
 - (vi) ANY REMEDIAL WORKS TO BE UNDERTAKEN;
 - (vii) INSTANCES RESULTING IN DAMAGE TO CONTROLS, ACCIDENTAL OR OTHERWISE;
 - (viii) TIME, DATE, VOLUME AND TYPE OF ANY FLOCCULANTS;
 - (ix) TIME, DATE, VOLUME AND TYPE OF SEDIMENT REMOVED FROM CONTROL STRUCTURES AND WHERE IT HAS BEEN DISPOSED.
- 16 THE LOG BOOK IS TO BE KEPT ON-SITE AND MADE AVAILABLE ON SITE TO ANY ONE REQUIRING IT. IT SHOULD ALSO CONTAIN MAINTENANCE REQUIREMENTS AND PROCEDURES FOR ANY CONTROL REQUIRING IT.



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No. B C D E F REVISIONS 1 2 3 4 5 6	DESCRIPTION	DRN	APP	DATE	 Site Plus Pty Ltd ABN 73 104 315 085 	WOLLONGONG - HEAD OFFICE Shop 1, 18 Arrow Avenue Figtree NSW 2525 PO Box 506 Figtree NSW 2525 T 61 2 4227 4233 F 61 2 4227 4133 E info@siteplus.com.au	Height Datum A.H.D.	Client Title	Dwg Title	Ref & Dwg No
	ADJUSTED PITS FOR B2.1 & B2.2	I.B.	A.C.	19.09.25		Drawn I.B.	LEGACY PROPERTY GROUP	PROPOSED RESIDENTIAL DEVELOPMENT	25152.DA.C27	
	REVISED TO UPDATED ARCH	I.B.	A.C.	26.09.25		Designed I.B.	C/-	27 RAILWAY STREET, CORRIMAL	Sheet No 27 of 27	
	REVISED TO UPDATED ARCH	I.B.	A.C.	14.10.25		Checked A.C.	CHESTER PROJECT MANAGEMENT	Scale AS NOTED @ A		
	REVISED EXISTING SURFACE	I.B.	A.C.	03.11.25		Approved A.C.	Dwg Status APPROVAL	Local Authority WOLLONGONG	Date 03.11.25	
	SUBSTATION EASEMENT	I.B.	a.c.	03.11.25				SOIL & WATER MANAGEMENT PLAN	Rev F	