

Prepared by:

DA: _____



Prepared for:



LGA:



PLAN INDEX		
No.	PLAN	REV
PRELIMINARIES		
DA 000	COVER SHEET	A
DA 001	GENERAL LAYOUT PLAN, NOTES & LEGEND	A
DA 002	SITE CONSTRAINTS PLAN	A
DA 003	DEMOLITION & TREE REMOVAL PLAN	A
DA 004	COMBINED SERVICES PLAN	A
DA 005	SITE REGRADING PLAN	A
DA 006	SITE REGRADING SECTIONS SHEET 01 OF 04	A
DA 007	SITE REGRADING SECTIONS SHEET 02 OF 04	A
DA 008	SITE REGRADING SECTIONS SHEET 03 OF 04	A
DA 009	SITE REGRADING SECTIONS SHEET 04 OF 04	A
SEDIMENT & EROSION CONTROL		
DA 100	SEDIMENT & EROSION CONTROL PLAN	A
DA 101	SEDIMENT & EROSION CONTROL PLAN NOTES & DETAILS	A
ENGINEERING & ROADWORKS		
DA 200	ENGINEERING PLAN SHEET 01 OF 05	A
DA 201	ENGINEERING PLAN SHEET 02 OF 05	A
DA 202	ENGINEERING PLAN SHEET 03 OF 05	A
DA 203	ENGINEERING PLAN SHEET 04 OF 05	A
DA 204	ENGINEERING PLAN SHEET 05 OF 05	A
DA 300	TYPICAL ROAD CROSS SECTIONS & DETAILS	A
DA 301	ROAD LONG SECTIONS SHEET 01 OF 02	A
DA 301	ROAD LONG SECTIONS SHEET 02 OF 02	A

No.	PLAN	REV
STORMWATER DRAINAGE		
DA 400	STORMWATER CATCHMENT PLAN	A
DA 401	OVERALL STORMWATER CATCHMENT PLAN	A
DA 405	WATER QUALITY DETAILS SHET 01 OF 02	A
DA 406	WATER QUALITY DETAILS SHET 02 OF 02	A
DA 410	DRAINAGE LONG SECTIONS SHEET 01 OF 15	A
DA 411	DRAINAGE LONG SECTIONS SHEET 02 OF 15	A
DA 412	DRAINAGE LONG SECTIONS SHEET 03 OF 15	A
DA 413	DRAINAGE LONG SECTIONS SHEET 04 OF 15	A
DA 414	DRAINAGE LONG SECTIONS SHEET 05 OF 15	A
DA 415	DRAINAGE LONG SECTIONS SHEET 06 OF 15	A
DA 416	DRAINAGE LONG SECTIONS SHEET 07 OF 15	A
DA 417	DRAINAGE LONG SECTIONS SHEET 08 OF 15	A
DA 418	DRAINAGE LONG SECTIONS SHEET 09 OF 15	A
DA 419	DRAINAGE LONG SECTIONS SHEET 10 OF 15	A
DA 420	DRAINAGE LONG SECTIONS SHEET 11 OF 15	A
DA 421	DRAINAGE LONG SECTIONS SHEET 12 OF 15	A
DA 422	DRAINAGE LONG SECTIONS SHEET 13 OF 15	A
DA 423	DRAINAGE LONG SECTIONS SHEET 14 OF 15	A
DA 424	DRAINAGE LONG SECTIONS SHEET 15 OF 15	A
TRAFFIC CONTROL		
DA 600	ROUNDBOUT VEHICLE TURN PATH PLAN SHEET 01 OF 03	A
DA 601	ROUNDBOUT VEHICLE TURN PATH PLAN SHEET 02 OF 03	A
DA 602	ROUNDBOUT VEHICLE TURN PATH PLAN SHEET 03 OF 03	A

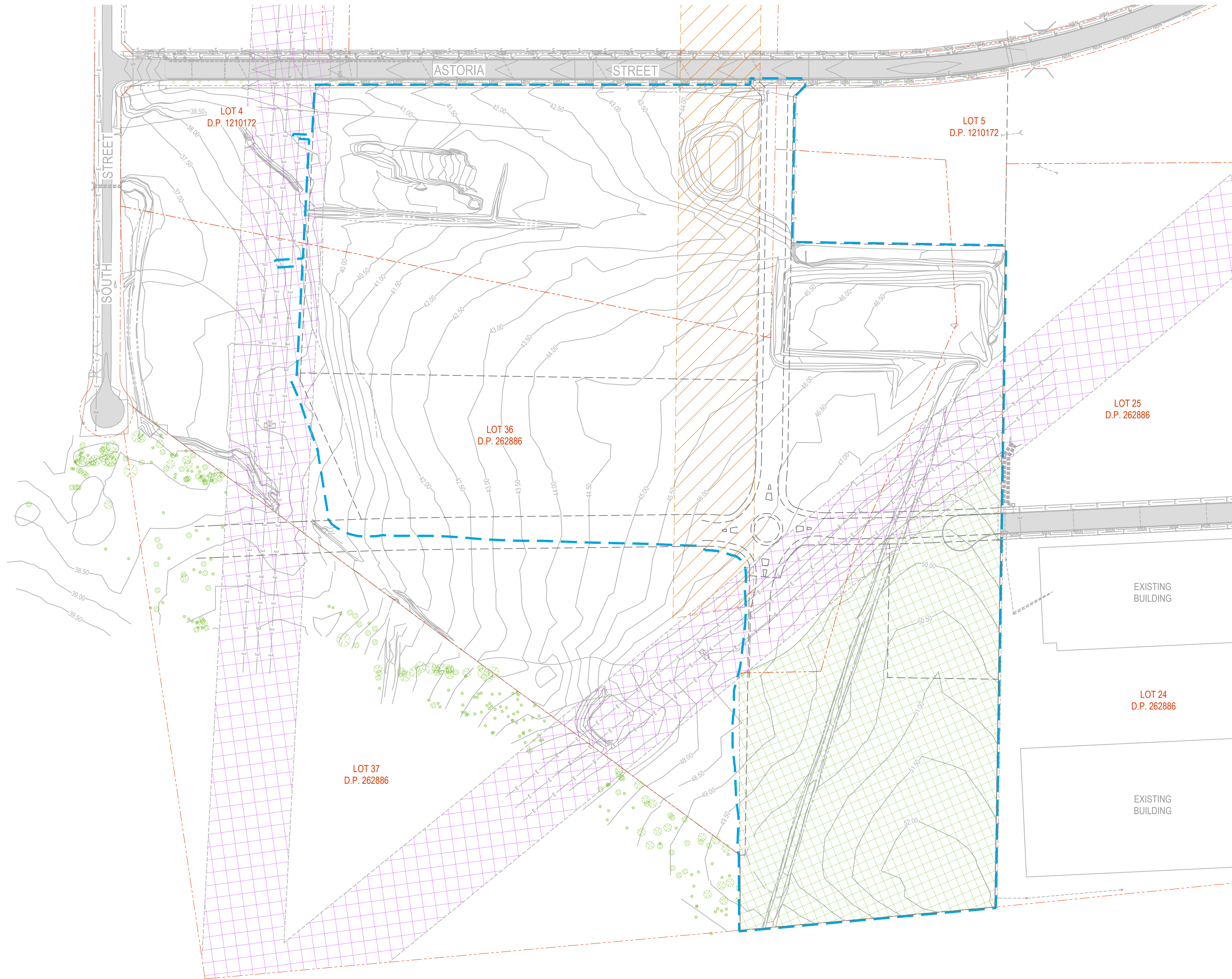


SITE / LOCATION (Image courtesy of Nearmap 23.06.2020)

LOTS 4 & 5, D.P. 1210172
LOT 36, D.P. 262886

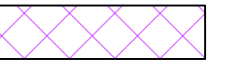
STAGE 3, SYDNEY BUSINESS PARK, MARSDEN PARK ROAD, DRAINAGE & BULK EARTHWORKS DESIGN

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION



LEGEND

EXISTING 60.96m WIDE ELECTRICAL EASEMENT



INDICATIVE FUTURE METRO CORRIDOR



APPROXIMATE LIMIT OF WORKS



EXISTING ELECTRICITY

E E

EXISTING GAS

G G

EXISTING SEWER

S S

EXISTING WATER

W W

EXISTING TELECOMS

T T

EXISTING NBN

NBN NBN

EXISTING OPTIC FIBRE

OF OF

EXISTING TREES / EXISTING BATCH OF TREES



EXISTING CONTOURS



60.0

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.



**DIAL BEFORE
YOU DIG**
www.1100.com.au

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 15 30 45 60 75 90 105 120 135 150
SCALE 1:1500 (A1)
SCALE 1:3000 (A3)

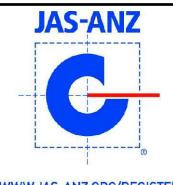
For:



By:



ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au



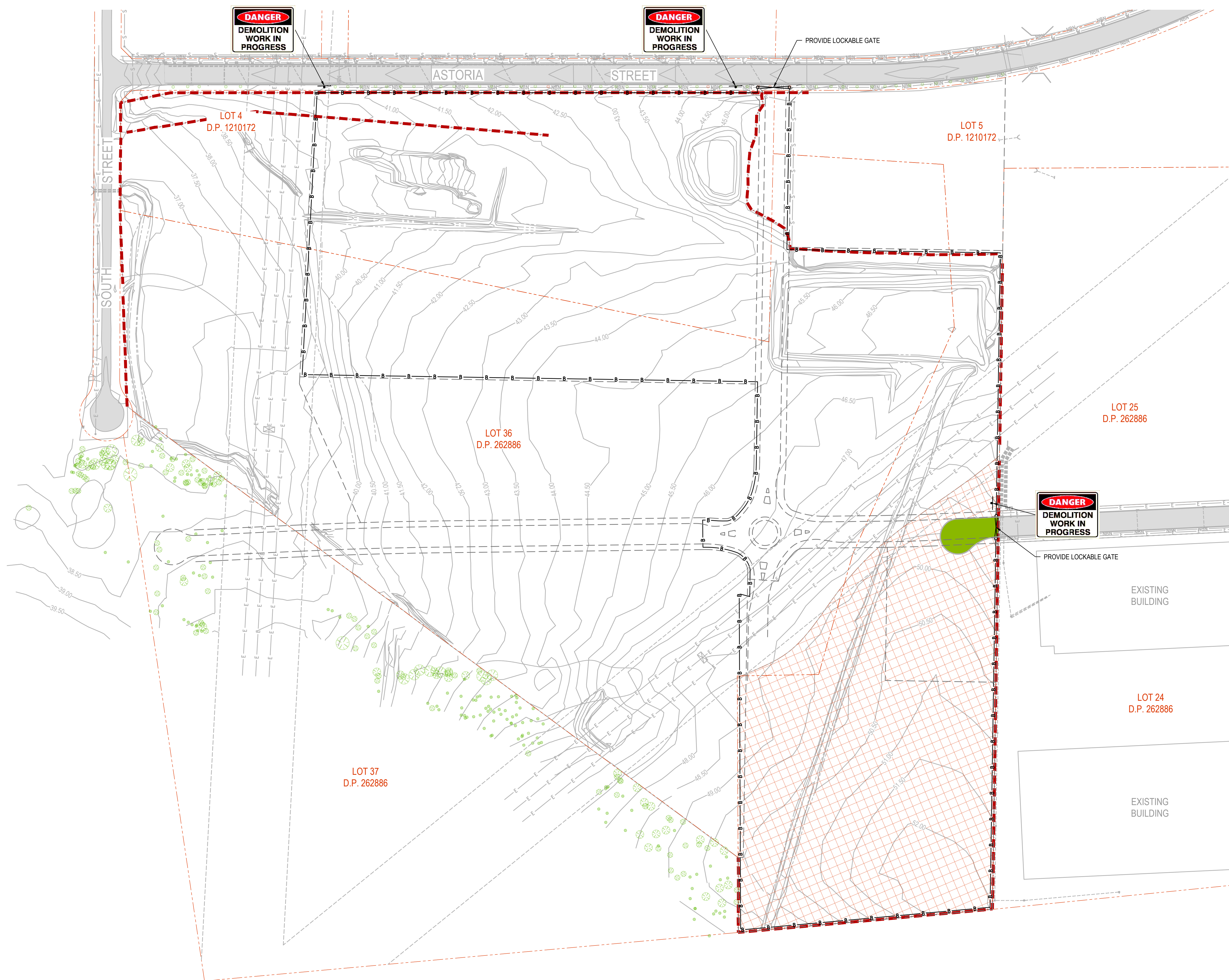
Project:

STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

Title:

SITE CONSTRAINTS PLAN

Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	002	A



LEGEND

EXISTING FENCE & GATE TO BE DEMOLISHED AND REMOVED OFFSITE TO APPROVED WASTE FACILITY

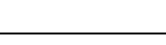
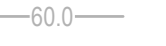
EXISTING PAVEMENT TO BE DEMOLISHED AND REMOVED OFFSITE TO APPROVED WASTE FACILITY

EXISTING TREES / EXISTING BATCH OF TREES TO BE REMOVED

EXISTING TREES TO REMAIN

EXISTING CONTOURS

SITE SECURITY FENCE



1. SURVEY PROVIDED BY FREEBURN SURVEYING; (DATED 29/05/2020)
2. CONTRACTOR TO ESTABLISH EXTENT OF ALL EXISTING SERVICES WITHIN THE EXTENT OF WORKS.
3. CONTRACTOR TO GAIN ALL NECESSARY APPROVALS & PERMITS TO DEMOLISH, CAP OR REMOVE EXISTING SERVICES AS REQUIRED.
4. CONTRACTOR TO ALLOW FOR THE DEMOLITION OF ALL EXISTING STRUCTURES & FEATURES (ABOVE & BELOW GROUND) ON THE SITE REQUIRED, INCLUDING BUILDINGS, FENCES, EXISTING PAVEMENT, DRAINAGE, SIGNS ETC.
5. ALL DEMOLITION WORKS SHALL COMPLY WITH THE PROVISIONS OF AS2601:2001 THE DEMOLITION OF STRUCTURES.
6. REMOVAL OF EXISTING ELECTRICAL INFRASTRUCTURE TO BE COMPLETED IN ACCORDANCE ELECTRICAL CONSULTANTS SPECIFICATIONS & DRAWINGS.
7. EXISTING SERVICES TO BE LOCATED FROM DBYD PLANS AND ONSITE SERVICES LOCATION.
8. TREE REMOVAL SHALL BE IN ACCORDANCE WITH THE HAWKESBURY CITY COUNCIL'S REQUIREMENTS AND SPECIFICATIONS.

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.



DIAL BEFORE YOU DIG
www.1100.com.au



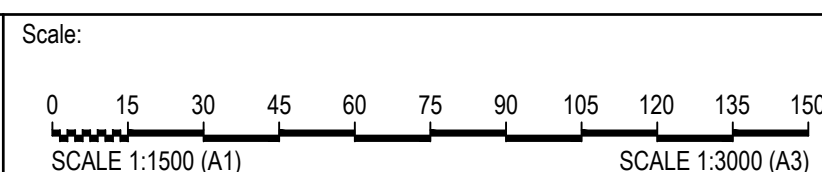
SIGNS

"DANGER - DEMOLITION IN PROGRESS" OR SIMILAR MESSAGE SHALL BE MAINTAINED ON THE FENCING AT APPROPRIATE PLACES TO WARN THE PUBLIC.

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



For:



By:



ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au



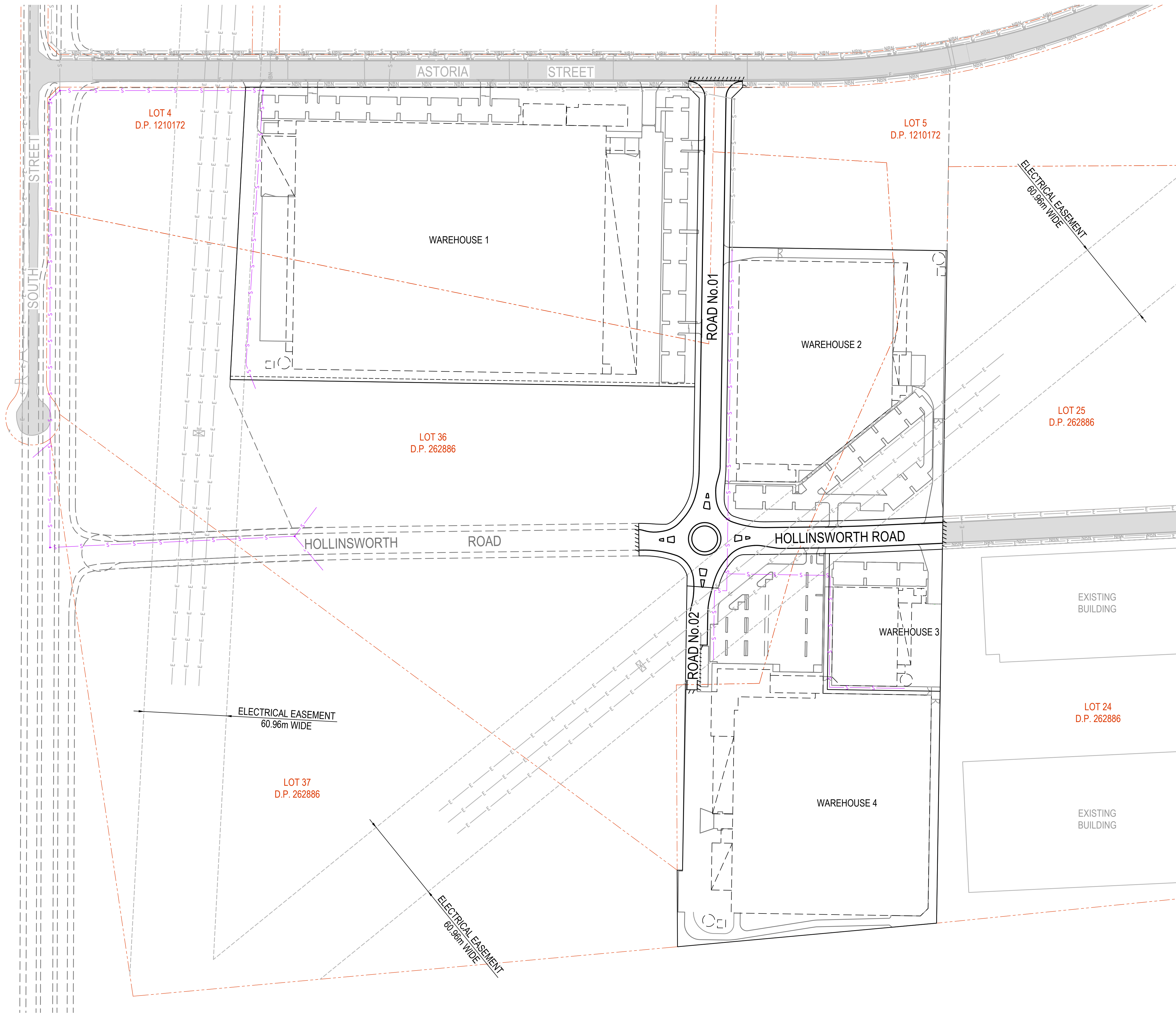
Project:

STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

Title:

DEMOLITION & TREE
REMOVAL PLAN

Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	003	A



LEGEND

	EXISTING	PROPOSED	FUTURE
UTILITY - ELECTRICITY	E	E	E
GAS	G	G	G
SEWER	S	S	S
WATER	W	W	W
NBN	NBN	NBN	NBN

NOTES:

- PLAN PROVIDED FOR INFORMATION PURPOSES ONLY. REFER TO (CURRENT) APPROVED VERSION SERVICE PROVIDER DRAWINGS BY OTHERS
- EXISTING SERVICE INFORMATION PROVIDED BY UTILITY MAPPING (DATED: 02/03/2020)
- ADDITIONAL TELSTRA INFORMATION OBTAINED FROM DBYD (DATED: 25/06/2020)
- OVERHEAD INFORMATION OBTAINED FROM SURVEY INFORMATION PROVIDED BY BLACKTOWN CITY COUNCIL (RECEIVED: 01/11/2017)

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.

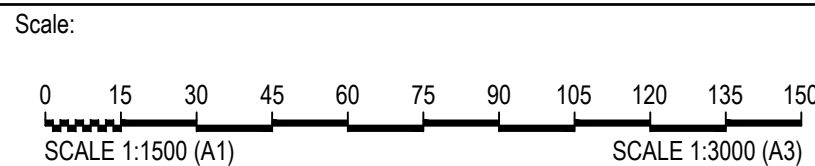


ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Project: File Name: C:\Users\Glen\OneDrive\SYN01\20-0127-02-DA-004.dwg
2020/07/20 10:20:00
2020/07/20 10:20:00

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



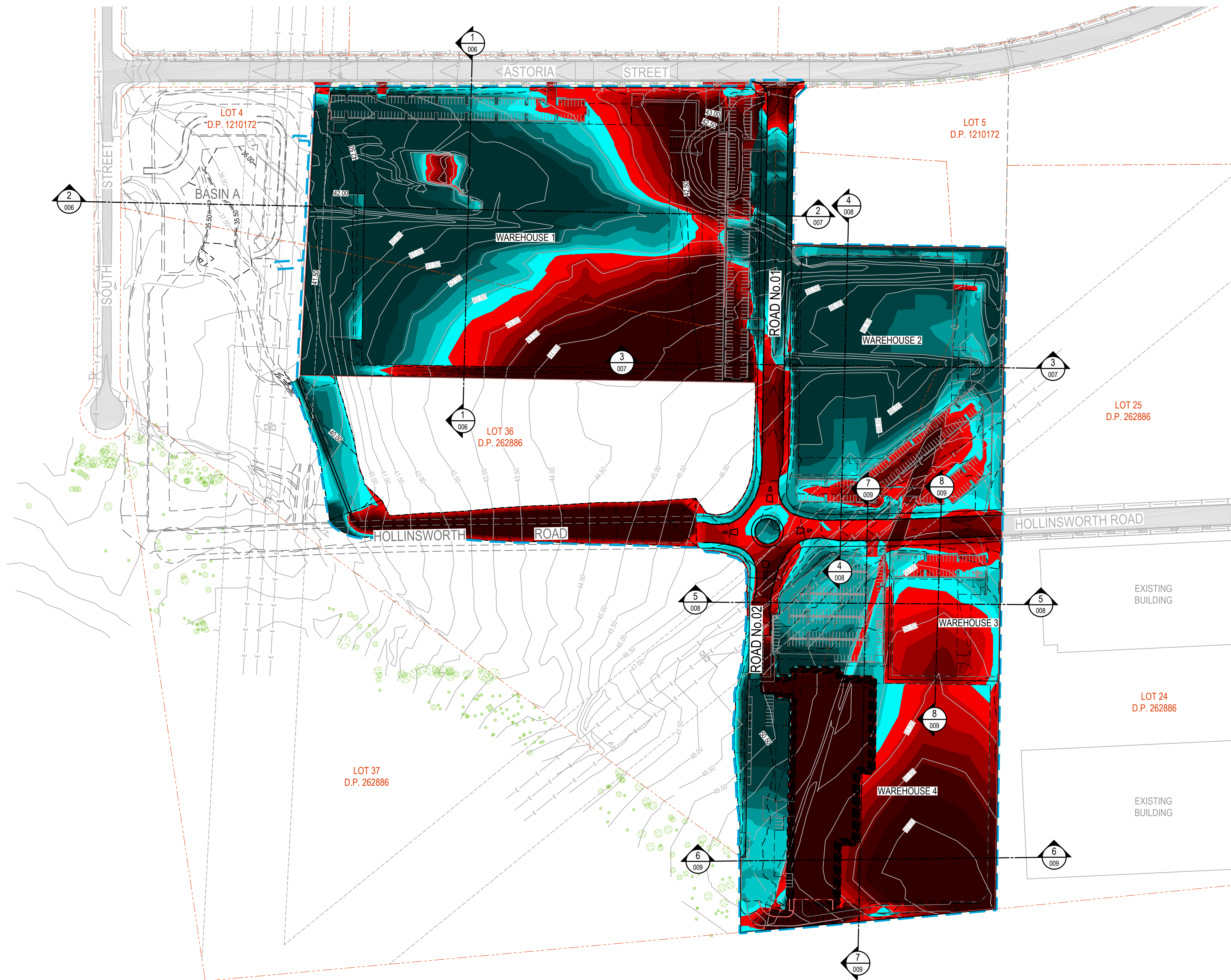
By: **Orion Consulting**
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

SUSTAINABLE
CERTIFICATION
ISO 9001

JAS-ANZ
REGISTERED

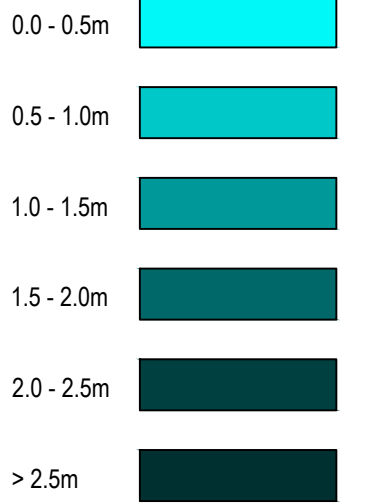
Project: **STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN**

Title: COMBINED SERVICES PLAN				
Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	004	A

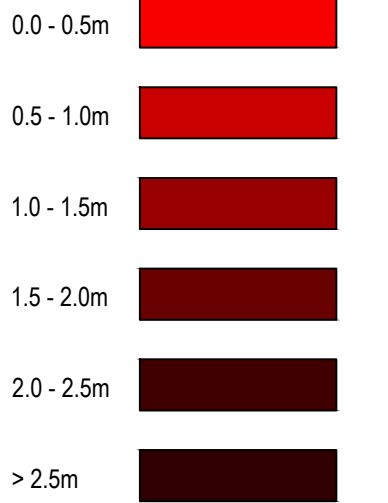


LEGEND

APPROXIMATE EXTENT OF FILL



APPROXIMATE EXTENT OF CUT



VOLUMES

CUT - 115,730m³
FILL - 98,810m³

BALANCE - 16,920m³

NOTE:
- BULK EARTHWORKS QUANTITIES
MEASURED AS SOLID VOLUMES, NO
BULKING FACTOR HAS BEEN APPLIED

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT
INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

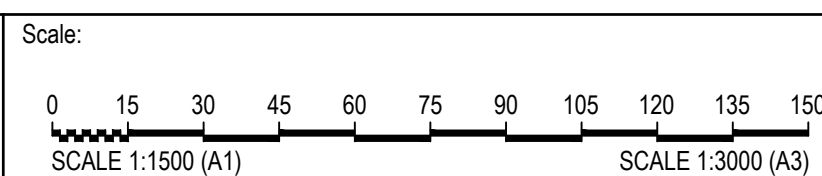
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY,
LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH
UTILITIES EXCAVATION GUIDE LINES/STANDARDS.



ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE
CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE
COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING
ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED
OR COPIED WHOLLY OR IN PART WITHOUT THE
PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

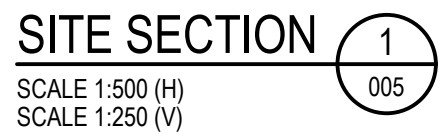


By: **Orion Consulting**
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

Project: **STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN**

Title: SITE REGRADING PLAN				
Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	005	A

LEGEND	
BULK EARTHWORKS LEVEL	
EXISTING SURFACE	
FUTURE SURFACE LEVEL	
SITE BOUNDARY	



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE
CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE
COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING
ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED
OR COPIED WHOLLY OR IN PART WITHOUT THE
PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



By:  **Orion Consulting**

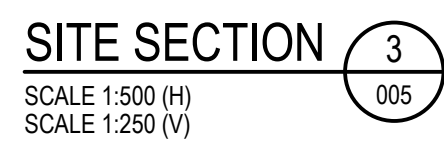
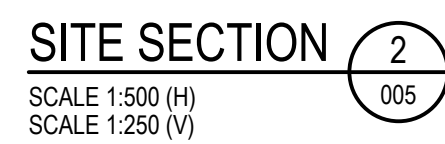
 

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

Project: STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

Title: SITE REGRADING SECTIONS SHEET 01 OF 04				
Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	006	A

LEGEND	
BULK EARTHWORKS LEVEL	
EXISTING SURFACE	
FUTURE SURFACE LEVEL	
SITE BOUNDARY	

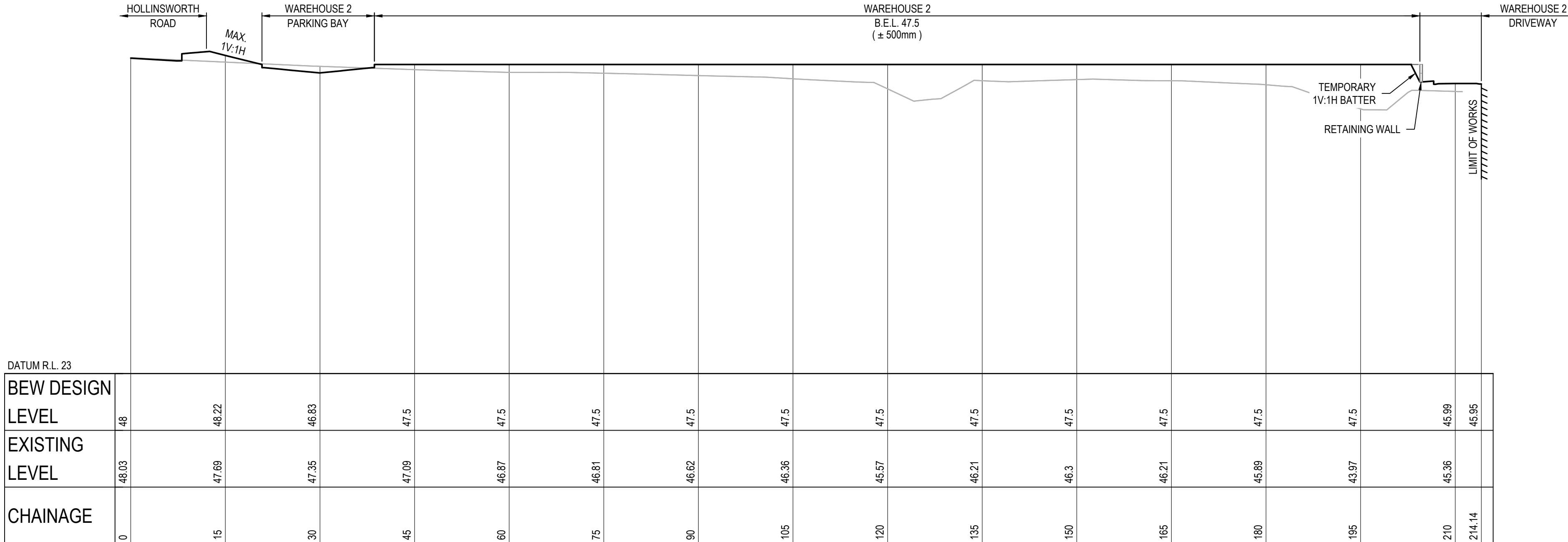


Project: STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN	Title: SITE REGRADING SECTIONS SHEET 02 OF 04				
	Project No. 20-0127	Set No. 02	Milestone DA	Plan 007	Revision A

						Project: EIA Item: C12050000-DRDRA-SYD	A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION	Revision Description	Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD	Scale: 05101520253035404550 SCALE 1:500 (A1) 02.557.51012.51517.52022.525 SCALE 1:250 (A1) SCALE 1:1000 (A3) SCALE 1:500 (A3)	For: sydney business park	By: Orion Consulting ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au SUSTAINABLE certification ✓ISO 9001 JAS-ANZ REGISTERED www.jas-anz.com/register	Project: STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN	Title: SITE REGRADING SECTIONS SHEET 02 OF 04 Project No. Set No. Milestone Plan Revision 20-0127 02 DA 007 A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

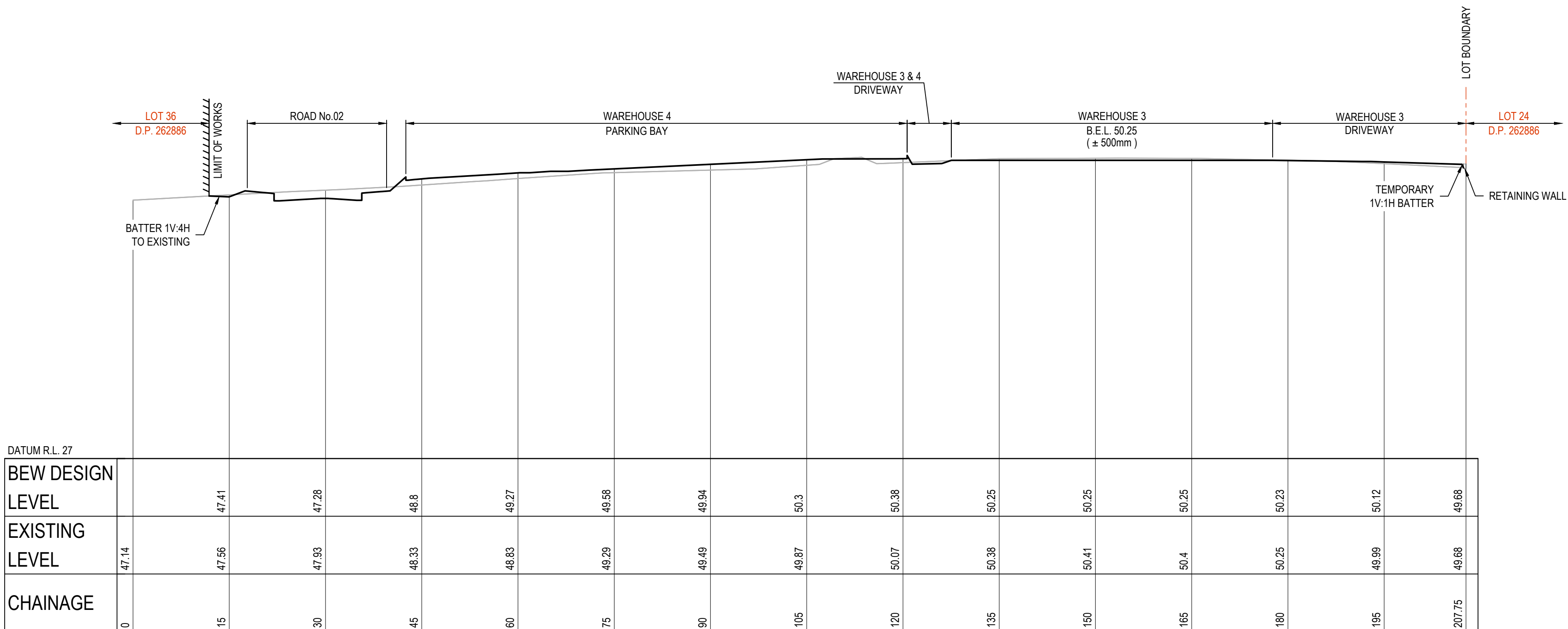
LEGEND

BULK EARTHWORKS LEVEL	
EXISTING SURFACE	
FUTURE SURFACE LEVEL	
SITE BOUNDARY	



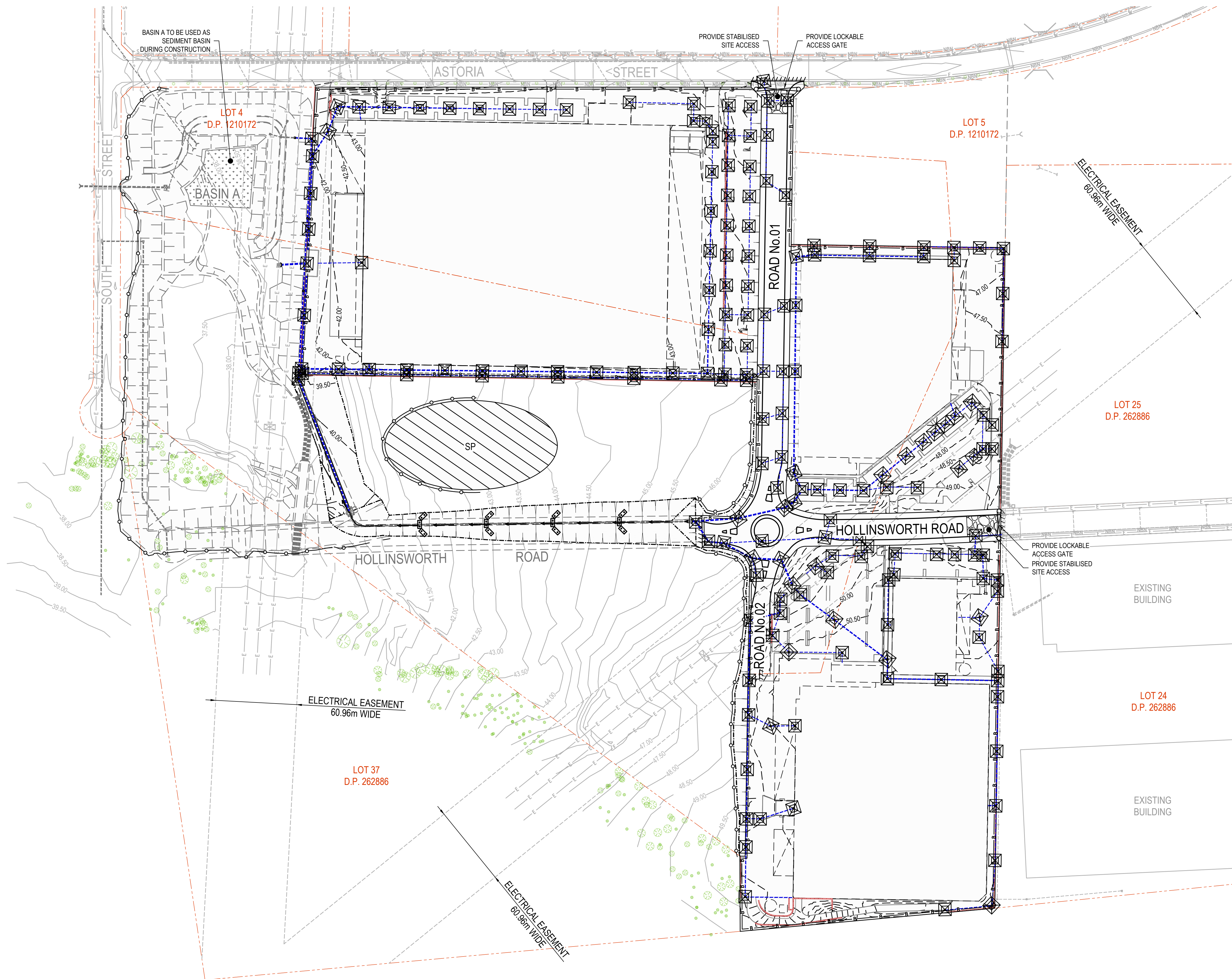
SITE SECTION 4
005

SCALE 1:500 (H)
SCALE 1:250 (V)



SITE SECTION
 SCALE 1:500 (H)
 SCALE 1:250 (V)

[illegible]



LEGEND

CONTOURS	
STABILISED SITE ACCESS	
POSSIBLE STOCKPILE LOCATION	
SITE SECURITY FENCE	
SEDIMENT FENCE	
CATCH DRAIN / DIVERSION SWALE	
PIT INLET FILTER (GEOTEXTILE OR MESH & GRAVEL)	
STRAW / HAY BALE FILTER	

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.



1. Erosion Hazard and Sediment Basins

Site Name: Sydney Business Park
Site Location: Astoria Street, Marsden Park
Precinct/Stage: Stage 3
Other Details:

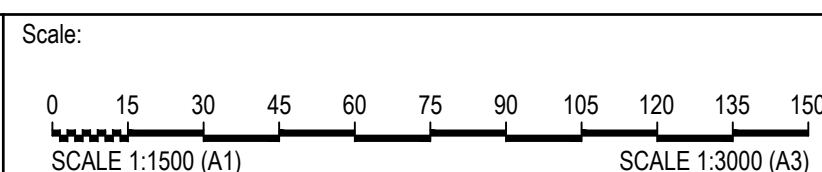
Site area	Sub-catchment or Name of Structure			Notes
Total catchment area (ha)	1	2	3	
Devalued catchment area (ha)	23.7	1.04	0.3	
	16	1.04	0.3	
Soil analysis (enter sediment type if known, or laboratory particle size data)				
Sediment Type (C, F or D) if known:	D	D	D	From Appendix C (if known)
% sand (fraction 0.02 to 2.00 mm)				Enter the percentage of each soil fraction. E.g. enter 10 for 10%
% silt (fraction 0.002 to 0.02 mm)				
% clay (fraction finer than 0.002 mm)				
Dispersion percentage				E.g. enter 10 for dispersion of 10%
% of whole soil dispersible				See Section 6.3.3(e). Auto-calculated
Soil Texture Group	D	D	D	Automatic calculation from above
Rainfall data				
Design rainfall depth (no. of days)	5	5	5	
Design rainfall depth (percentage)	75	75	75	See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25.
x-day, y-percentage rainfall event (mm)	19	19	19	
Rainfall R-factor (if known)				Only need to enter one or the other here
IFD: 2-year, 6-hour storm (if known)	10.1	10.1	10.1	
RUSLE Factors				
Rainfall erosivity (R-factor)	2250	2250	2250	Auto-filled from above
Soil erodibility (K-factor)	0.038	0.038	0.038	
Slope length (m)	80	80	80	
Slope gradient (%)	3	2	2	RUSLE LS factor calculated for a high hill/slope ratio.
Length/gradient (LS-factor)	0.65	0.41	0.41	
Erosion control practices (P-factor)	1.3	1.3	1.3	1.3
Ground cover (C-factor)	1	1	1	1
Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins)				
Storage (soil) zone design (no. of months)	2	2	2	Minimum is generally 2 months
Cv (Volumetric runoff coefficient)	0.5	0.5	0.5	See Table F2, page F-4 in Appendix F
Calculations and Type D/F Sediment Basin Volumes				
Soil loss (t/ha/y)	72	45	45	
Soil Loss Class	1	1	1	See Table 4.2, page 4-13
Soil loss (m ³ /ha/y)	56	35	35	Conversion to cubic metres
Sediment basin storage (soil) volume (m ³)	148	6	2	See Sections 6.3.4(i) for calculations
Sediment basin settling (water) volume (m ³)	2252	99	29	See Sections 6.3.4(j) for calculations
Sediment basin total volume (m ³)	2400	105	31	

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Project: File Name: C:\Users\Gavin\OneDrive\SYND\02-24-Development\Application_2020\TMS2020\0127-20-DA-100.dwg

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



For:



By:



ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au



Project:

STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

Title:

SEDIMENT & EROSION
CONTROL PLAN

Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	100	A

ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL, SHALL BE IMPLEMENTED TO THE REQUIREMENTS OF THE "ENVIRONMENT PROTECTION AUTHORITY," AND "DEPT OF LAND AND WATER CONSERVATION." MEASURES OUTLINED IN THE SEDIMENT & EROSION CONTROL PLAN MUST BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.

TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN THOSE AREAS.

ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS EARLY AS POSSIBLE DURING DEVELOPMENT.

ALL TAIL-OUT DRAINS SHALL BE GRASSED AND TRAPEZOIDAL IN SECTION. STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.

VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS. AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.

DISTURBANCE OF VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRAINAGE LINES. NO LOT GRADING SHALL BE CARRIED OUT IN UNDISTURBED AREAS WITHOUT CONSULTATION WITH COUNCIL'S ENGINEER.

ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN 14 WORKING DAYS FROM THE CONCLUSION OF LAND SHAPING.

MINIMISE DUST BY WATERING WHEN REQUIRED.

SPoil and TOPSOil STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.

IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH A MULCH OR WITH TEMPORARY VEGETATION.

FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPIREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATE.

ALL STOCKPILES TO BE (MAX) 2m HIGH AND PROTECTED WITH SILT FENCE.

LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE.

THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GUIDELINES SET OUT IN "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION" - 4TH EDITION AND THE ACCOMPANYING ROAD AND DRAINAGE PLANS.

CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT.

MANAGEMENT DEVICES SHALL BE MAINTAINED ON A REGULAR BASIS. WHERE CLEANING IS REQUIRED, THE SEDIMENT SHALL BE REMOVED TO A POINT NOMINATED BY THE ENGINEER.

PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS, AND AFTER THE ROAD CENTRELINES HAVE BEEN PEGGED AND/OR PERMANENTLY MARKED, THE SITE MUST BE INSPECTED BY COUNCIL'S REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE TO IDENTIFY AND APPROPRIATELY MARK:-

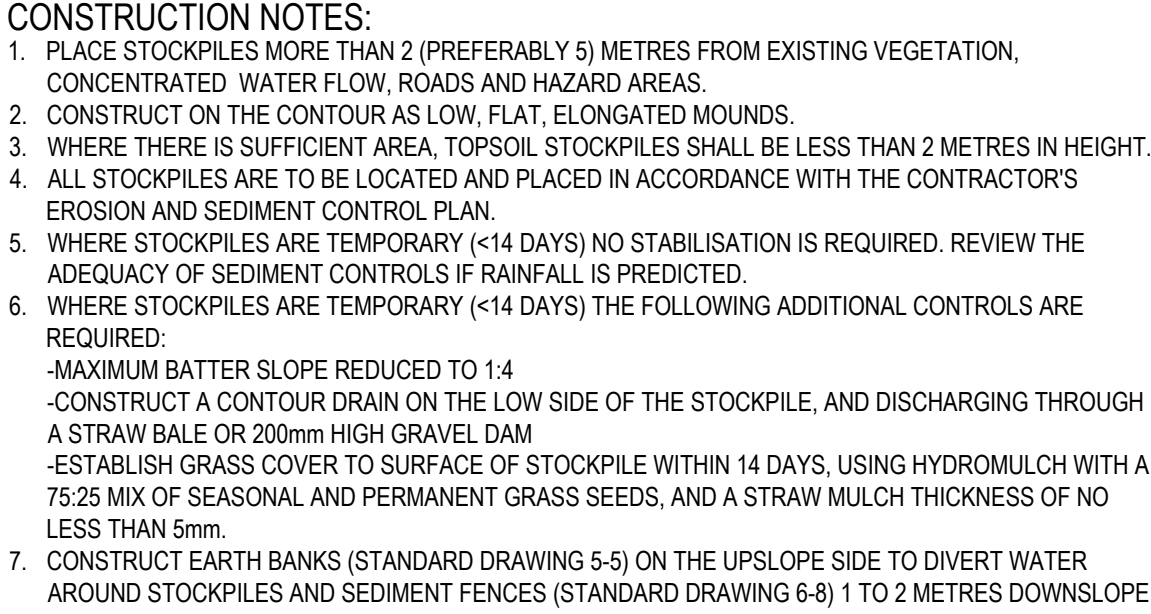
- a) THE TREES TO BE RETAINED.
- b) ALL TREES TO BE LEFT UNDISTURBED AND TO BE CORDONED OFF.

NO TREES SHALL BE REMOVED WITHOUT COUNCIL'S CLEARANCE.

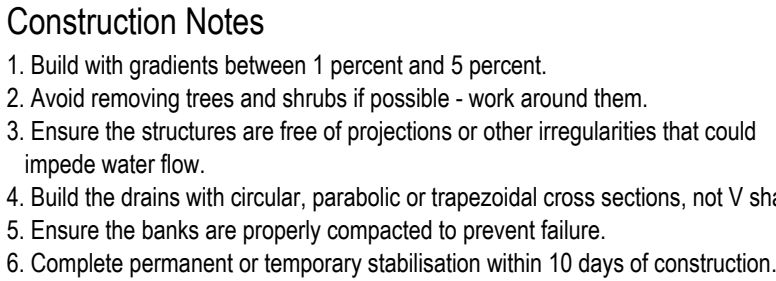
MANAGEMENT DEVICES TO REMAIN UNTIL THE END OF THE MAINTENANCE PERIOD.

ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 450mm INTO THE GROUND AND LOCATED ON THE BALE CENTRE LINE.

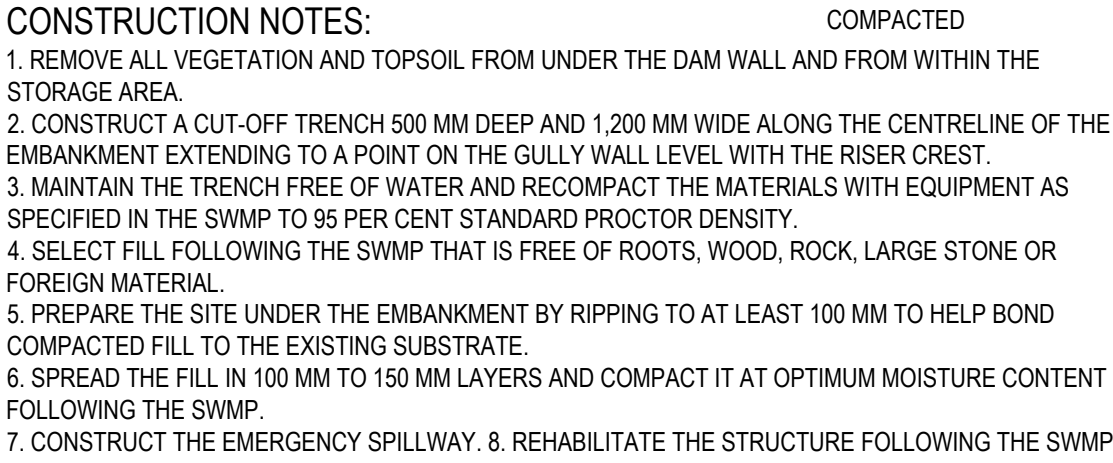
SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2m (3m MAX) CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.



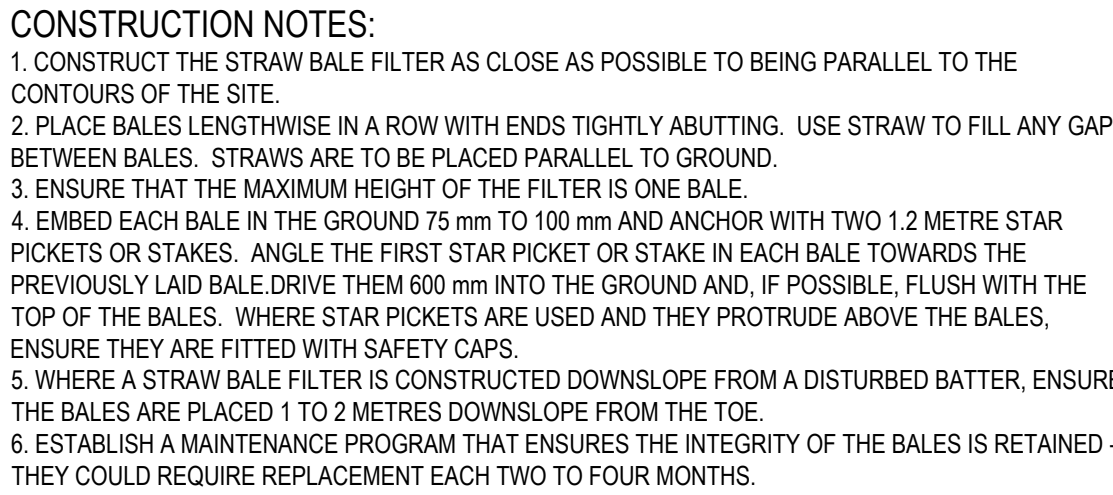
SD 4-1



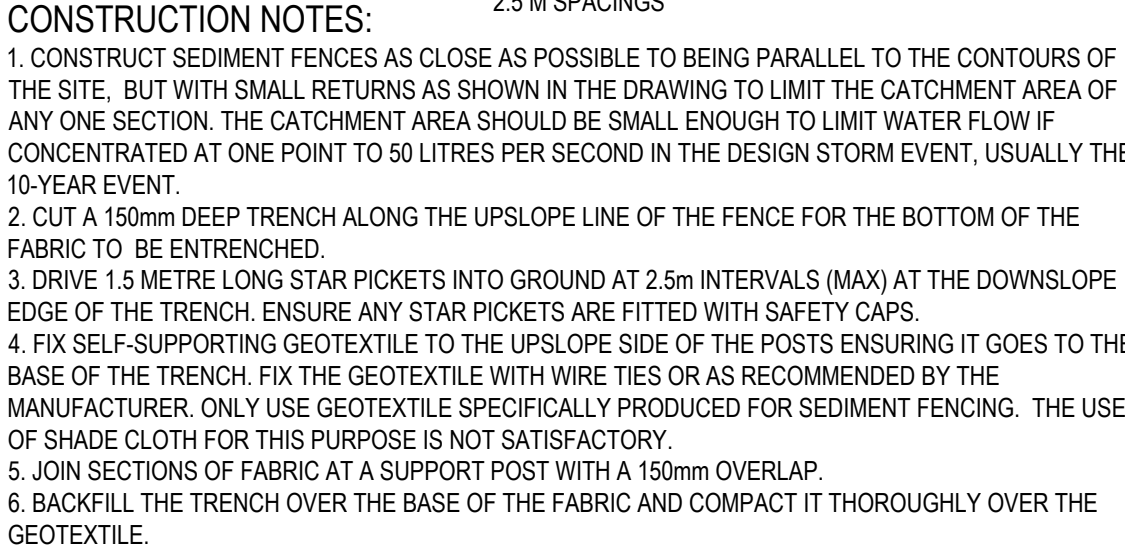
SD 5-5



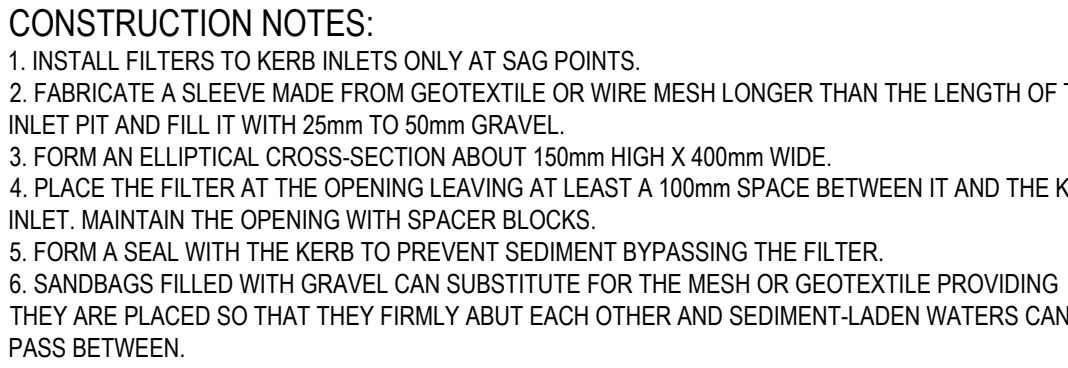
SD 6-4



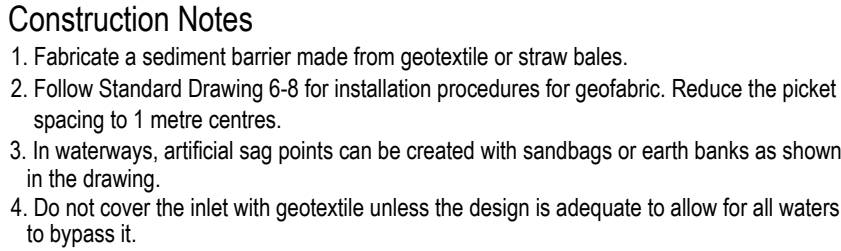
SD 6-7



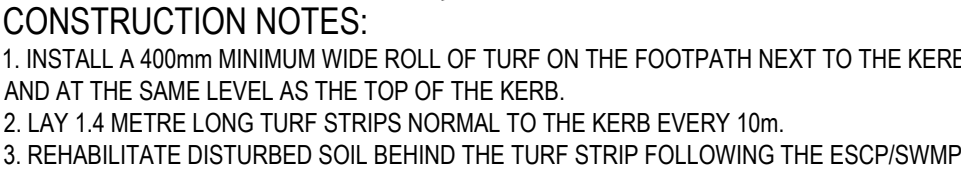
SD 6-8



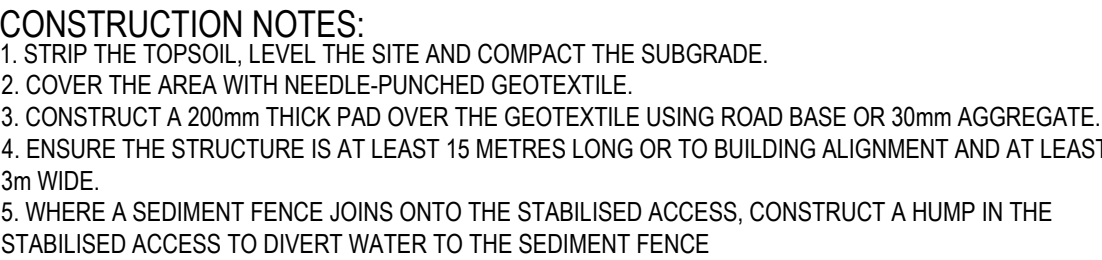
SD 6-11



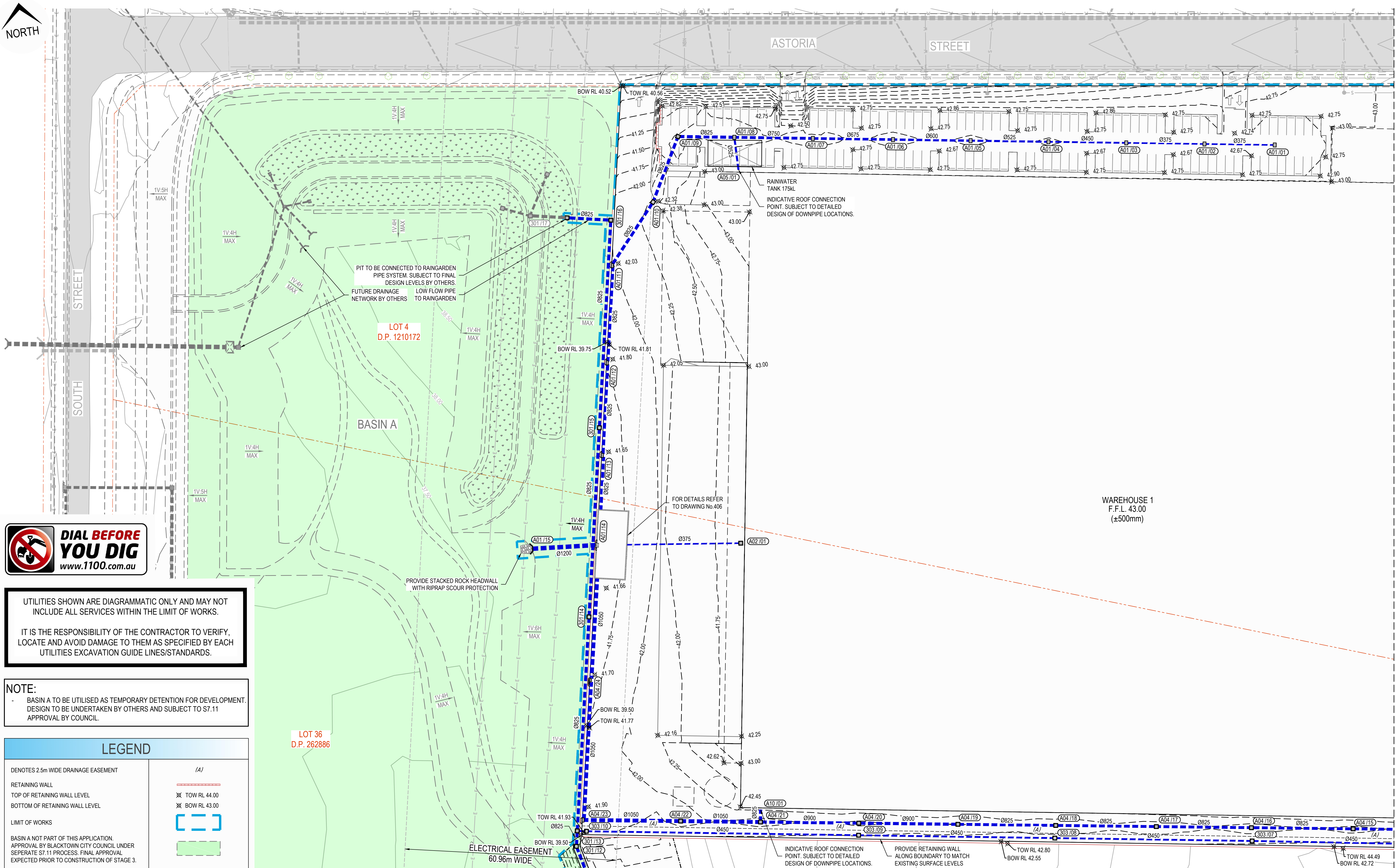
SD 6-12



SD 6-13



SD 6-14



FOR CONTINUATION REFER TO DRAWING No.202

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Title: ENGINEERING PLAN SHEET 01 OF 05				
Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	200	A

Project:

STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN



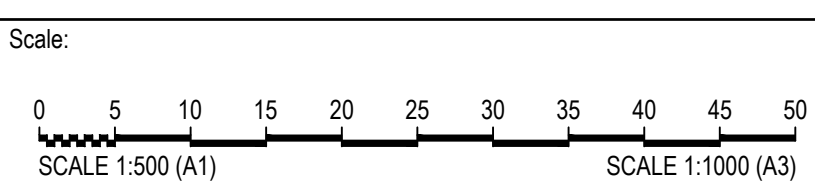
By:  **Orion Consulting**

ABN: 25 604 069 981 PO Box: 7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au



For

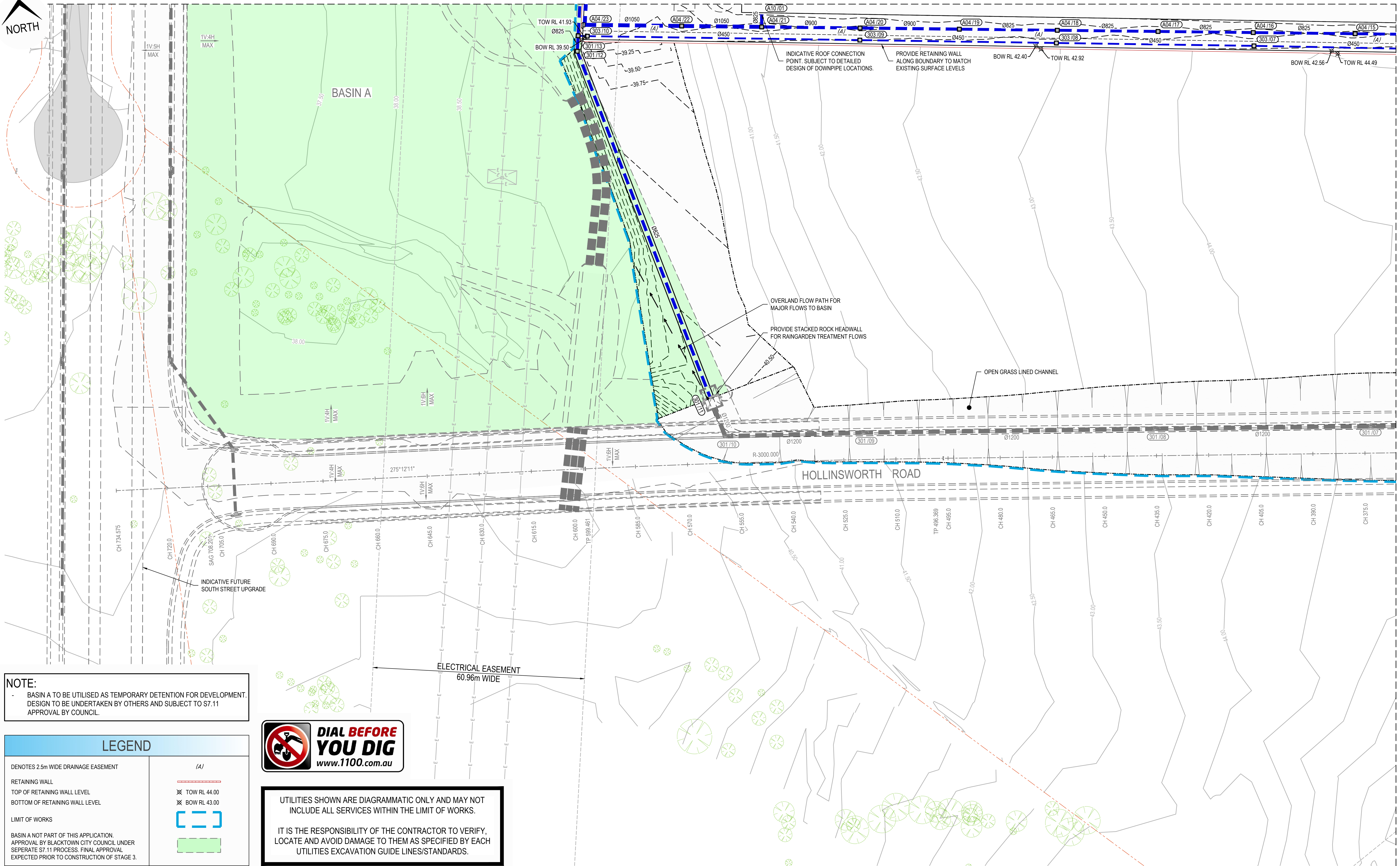


Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE
CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE
COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING
ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED
OR COPIED WHOLLY OR IN PART WITHOUT THE
PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION
Rev	Drawn	Design	Appd.	Date	Revision Description



FOR CONTINUATION REFER TO DRAWING No.200



NOTE:

- BASIN A TO BE UTILISED AS TEMPORARY DETENTION FOR DEVELOPMENT. DESIGN TO BE UNDERTAKEN BY OTHERS AND SUBJECT TO S7.11 APPROVAL BY COUNCIL.

LEGEND

Denotes 2.5m wide drainage easement

RETAINING WALL

TOP OF RETAINING WALL LEVEL

BOTTOM OF RETAINING WALL LEVEL

LIMIT OF WORKS

BASIN A NOT PART OF THIS APPLICATION. APPROVAL BY BLACKTOWN CITY COUNCIL UNDER SEPERATE S7.11 PROCESS. FINAL APPROVAL EXPECTED PRIOR TO CONSTRUCTION OF STAGE 3.

(A)

✕ TOW RL 44.00

✕ BOW RL 43.00

[]

[]



UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

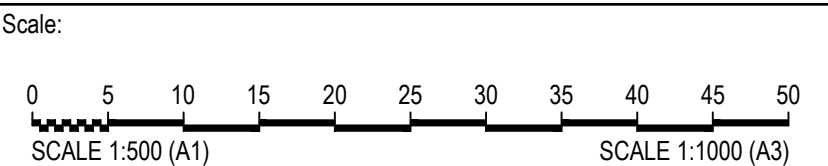
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

FOR CONTINUATION REFER TO DRAWING No.203

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



By:

Orion Consulting

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

For:

sydney business park

JAS-ANZ

SUSTAINABLE CERTIFICATION ISO 9001

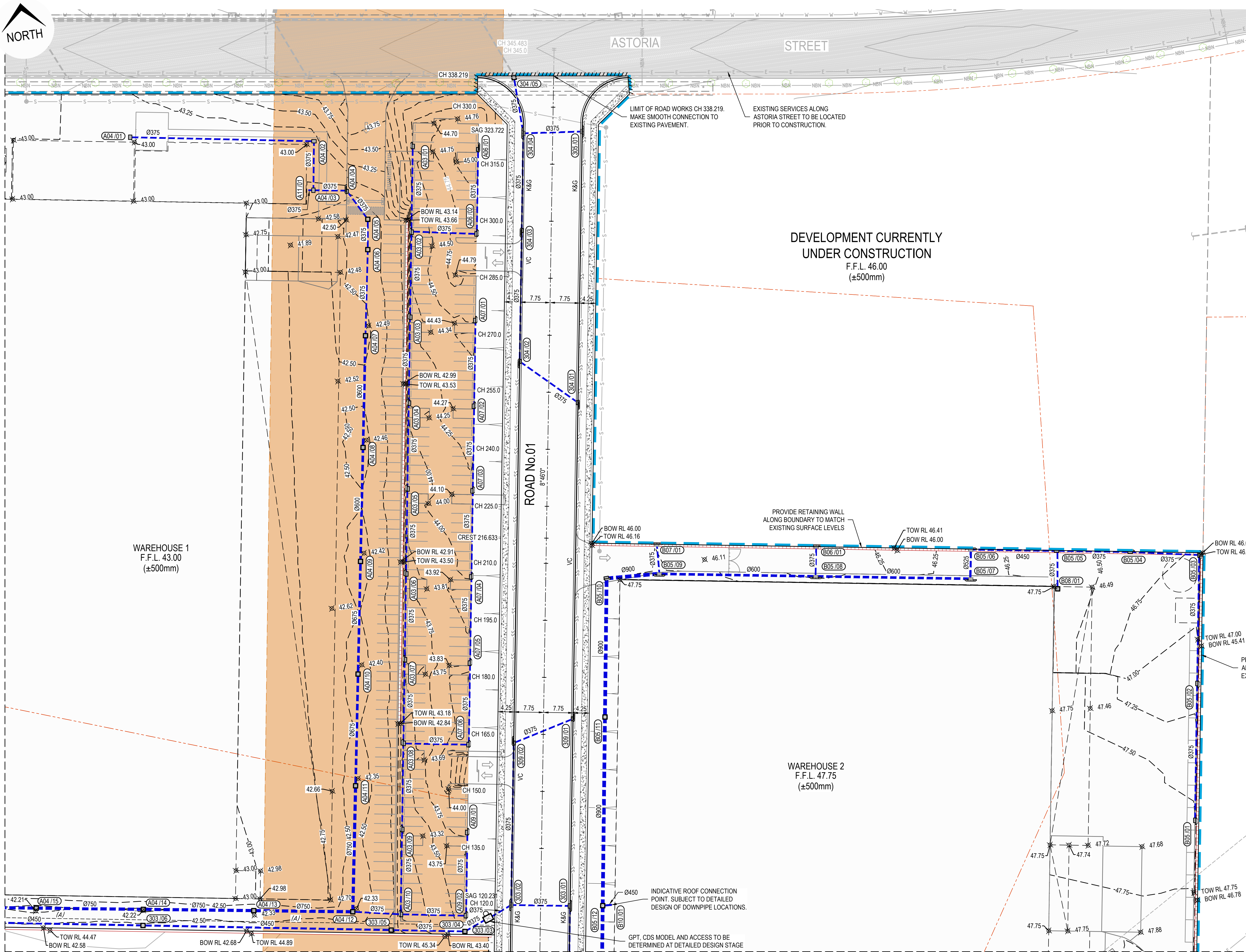
WWW.JAS-ANZ.ORG/REGISTER

Project: **STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN**

ENGINEERING PLAN SHEET 02 OF 05				
Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	201	A



FOR CONTINUATION REFER TO DRAWING No.200



LEGEND

DENOTES 2.5m WIDE DRAINAGE EASEMENT	(A)
RETAINING WALL	
TOP OF RETAINING WALL LEVEL	⊗ TOW RL 44.00
BOTTOM OF RETAINING WALL LEVEL	⊗ BOW RL 43.00
LIMIT OF WORKS	[]
INDICATIVE FUTURE METRO CORRIDOR	

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.

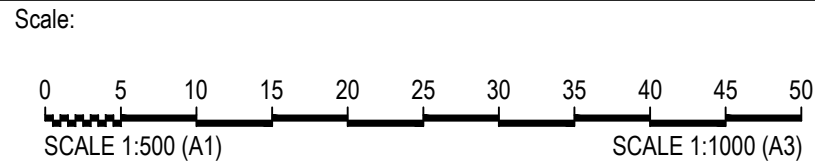


FOR CONTINUATION REFER TO DRAWING No.203

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



For:



By:

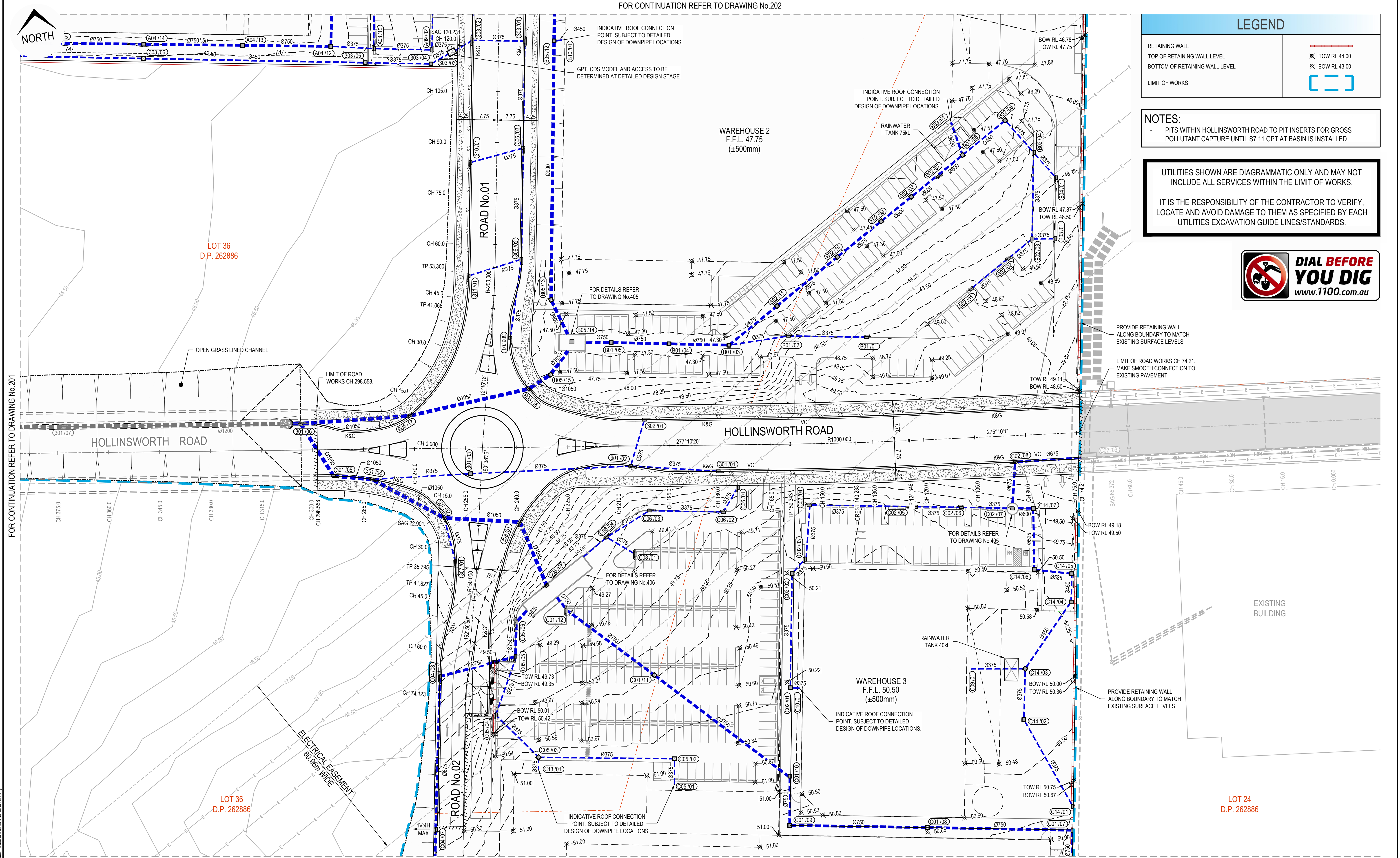


ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au



Project: **STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN**

Title: ENGINEERING PLAN SHEET 03 OF 5				
Project No. 20-0127	Set No. 02	Milestone DA	Plan 202	Revision A



LEGEND

RETAINING WALL	
TOP OF RETAINING WALL LEVEL	✕ TOW RL 44.00
BOTTOM OF RETAINING WALL LEVEL	✕ BOW RL 43.00
LIMIT OF WORKS	[]

NOTES:

- PITS WITHIN HOLLINSWORTH ROAD TO PIT INSERTS FOR GROSS POLLUTANT CAPTURE UNTIL S7.11 GPT AT BASIN IS INSTALLED

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

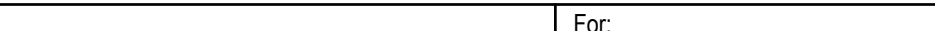
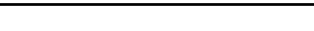
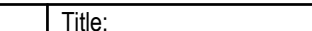
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.



FOR CONTINUATION REFER TO DRAWING No.201

FOR CONTINUATION REFER TO DRAWING No.204

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

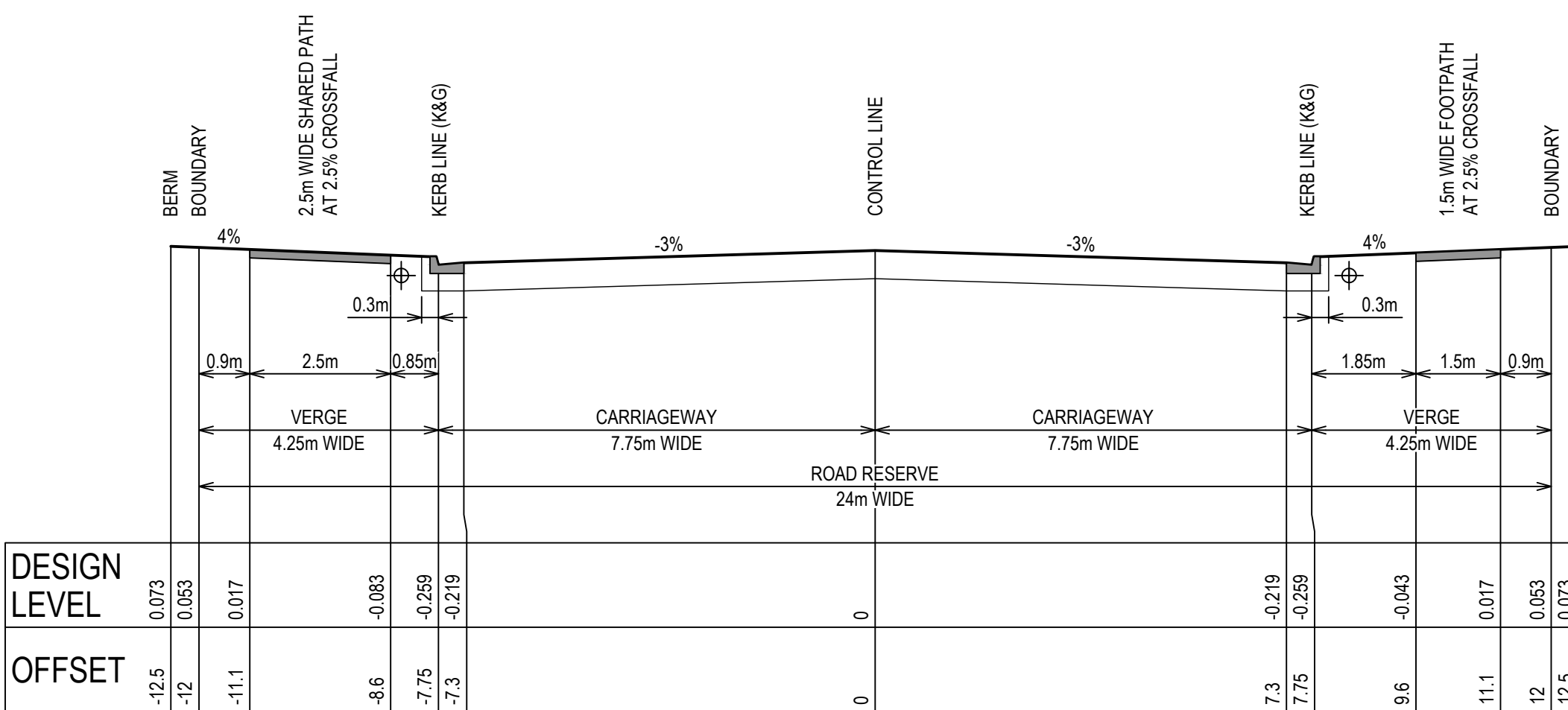
						A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION	Revision Description	Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD	Scale:  SCALE 1:500 (A1) SCALE 1:1000 (A3)	For: 	By:  ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au	 SUSTAINABLE DESIGN ISO 9001 www.jas-anz.com/register	 JAS-ANZ www.jas-anz.com/register	Project: STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN	Title: ENGINEERING PLAN SHEET 04 OF 05
Project No. 20-0127	Set No. 02	Milestone DA	Plan 203	Revision A																

LEGEND

SUBSOIL DRAIN TO BE LAID BELOW ALL KERBS
WHERE NO STORMWATER PIPE IS SHOWN

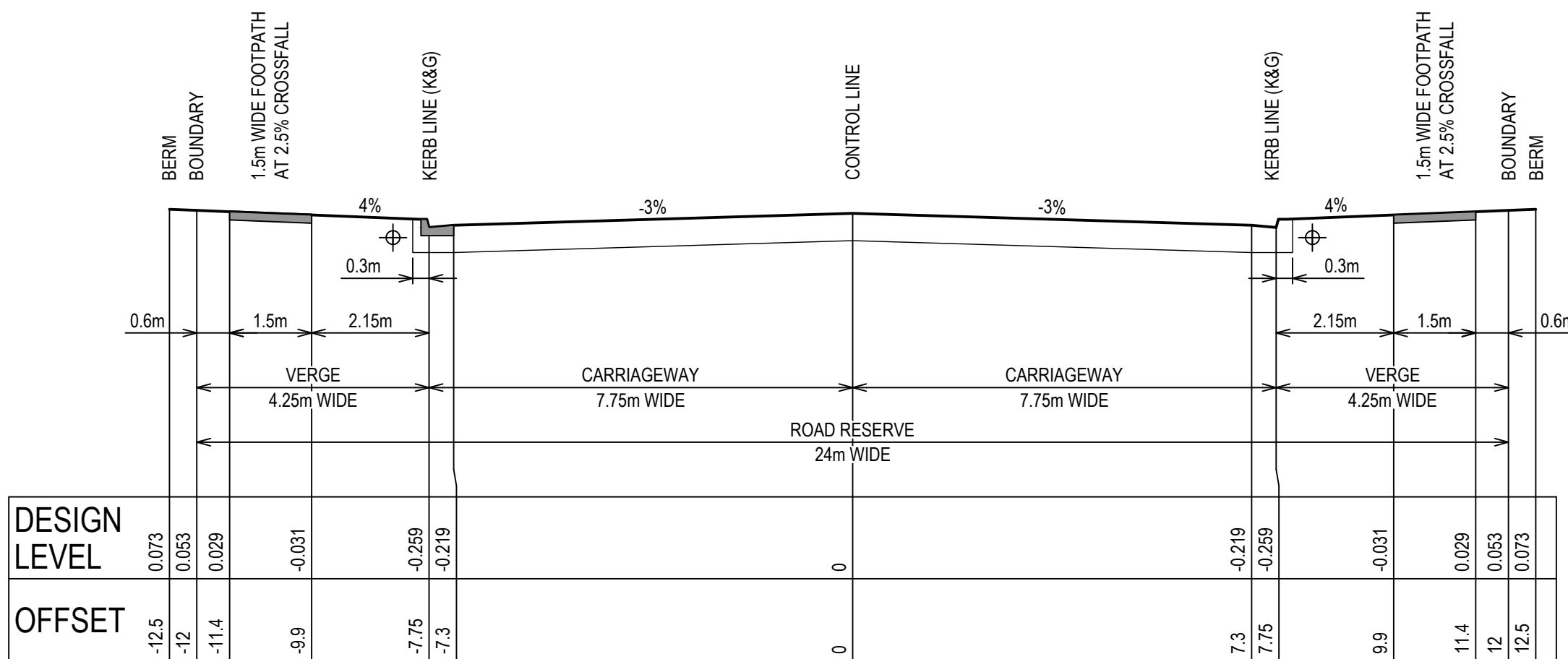
NOTE:

- FOOTPATH AND KERBS TO BE CONSTRUCTED TO BLACKTOWN CITY COUNCIL STANDARDS



TYPICAL CROSS SECTION - HOLLINSWORTH ROAD

SCALE 1:100



TYPICAL CROSS SECTION - ROAD No.01 & 02

SCALE 1:100

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Title:				
TYPICAL ROAD CROSS SECTIONS & DETAILS				
Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	300	A

A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION
Rev	Drawn	Design	Appd.	Date	Revision Description

Disclaimer and Copyright:	ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD
---------------------------	--

Scale:

0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For:	
------	---

By:  **Orion Consulting**

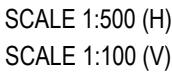
 

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

Project: STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

CHAINAGE	EXISTING LEVEL	DESIGN LEVEL	W.A.E.
0	49.57		
15	49.352		
19.856	49.281		
30	49.15		
45	49.017		
60	48.955		
65.372	48.95		
69.856	48.953		
74.21	48.786	48.963	
75	48.804	48.965	
90	49.132	49.047	
105	49.357	49.201	
119.866	49.426	49.425	
120	49.425	49.427	
120.048	49.425	49.428	
124.346	49.416	49.495	
135	49.412	49.592	
140.233	49.392	49.604	
145.048	49.49	49.594	
150	49.808	49.563	
159.343	49.014	49.446	
165	48.862	49.339	
170.048	48.722	49.22	
170.826	48.7	49.2	
180	48.449	48.967	
195	48.033	48.599	
210	47.606	48.246	
225	47.203	47.909	
240	46.86	47.587	
255	46.462	47.282	
270	46.262	46.992	
270.826	46.265	46.977	
285	46.295	46.718	
298.558	46.157	46.484	
300	46.143	46.46	
315	45.846	46.217	
330	45.48	45.99	
345	45.148	45.779	
360	44.88	45.584	

SCALE 1:500 (H)
SCALE 1:100 (V)



Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	301	A

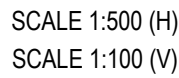
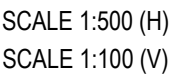
Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



By:  **Orion Consulting**

ABN: 25 604 069 981 **PO Box:** 7936, BAULKHAM HILLS NSW 2153 **T:** (02) 8660 0035 **E:** info@orionconsulting.com.au

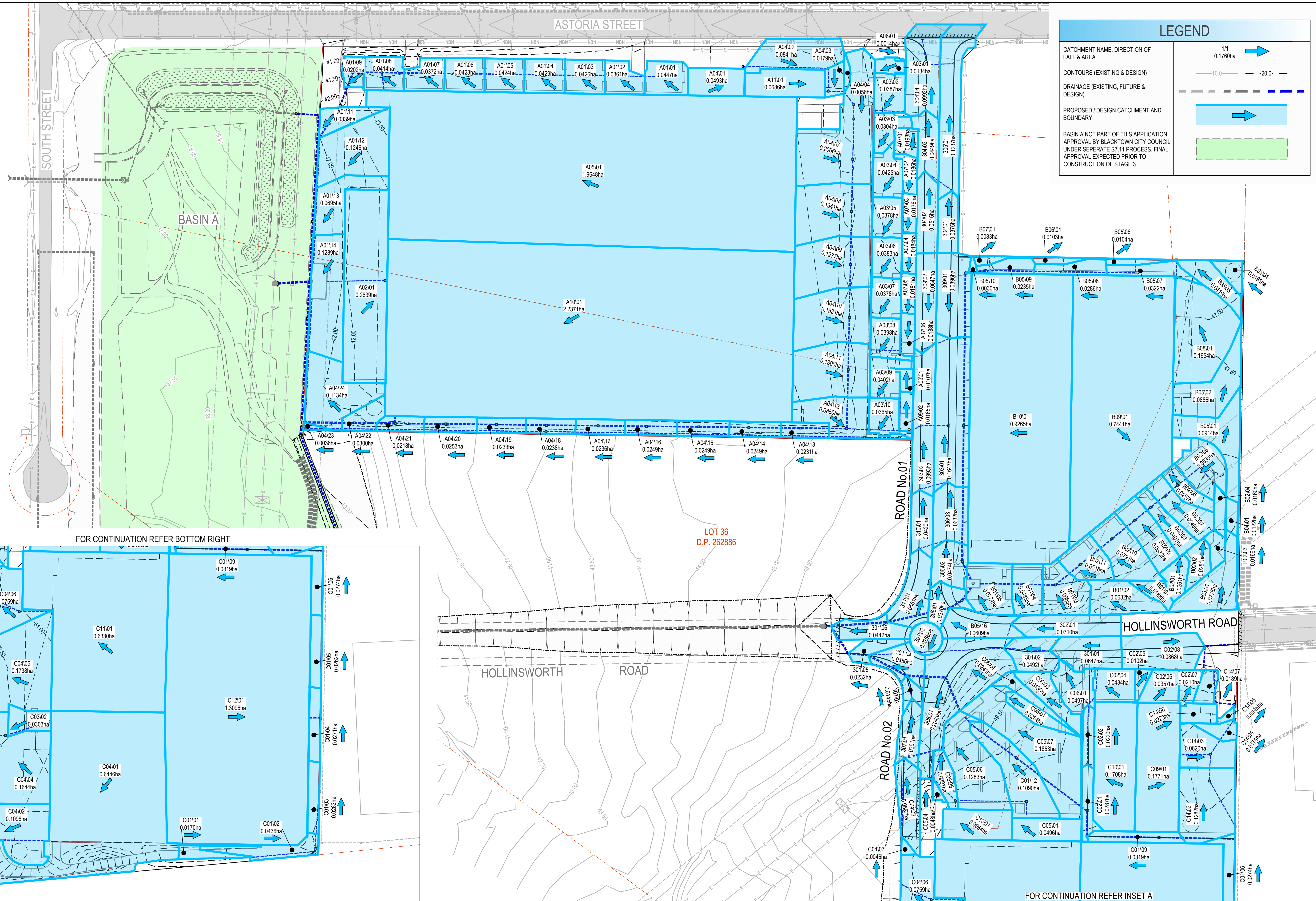


Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



ISSUED FOR DEVELOPMENT APPLICATION
NOT FOR CONSTRUCTION

Title: ROAD LONG SECTIONS SHEET 02 OF 02				
Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	302	A



LEGEND

CATCHMENT NAME, DIRECTION OF FALL & AREA

CONTOURS (EXISTING & DESIGN)

DRAINAGE (EXISTING, FUTURE & DESIGN)

PROPOSED / DESIGN CATCHMENT AND BOUNDARY

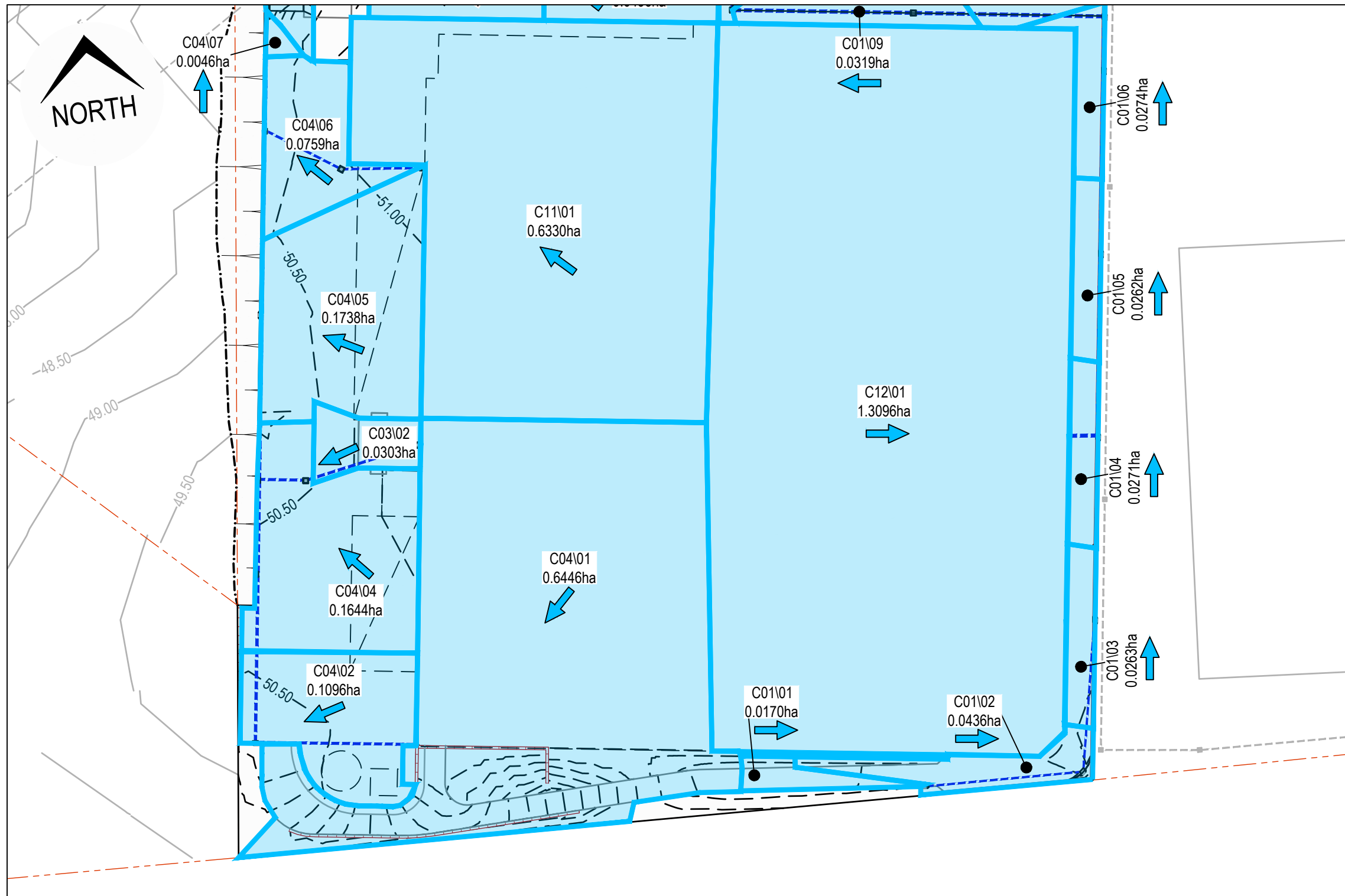
BASIN A NOT PART OF THIS APPLICATION. APPROVAL BY BLACKTOWN CITY COUNCIL UNDER SEPARATE \$7.11 PROCESS. FINAL APPROVAL EXPECTED PRIOR TO CONSTRUCTION OF STAGE 3.

1/1
0.1760ha

10.0

-20.0

FOR CONTINUATION REFER BOTTOM RIGHT

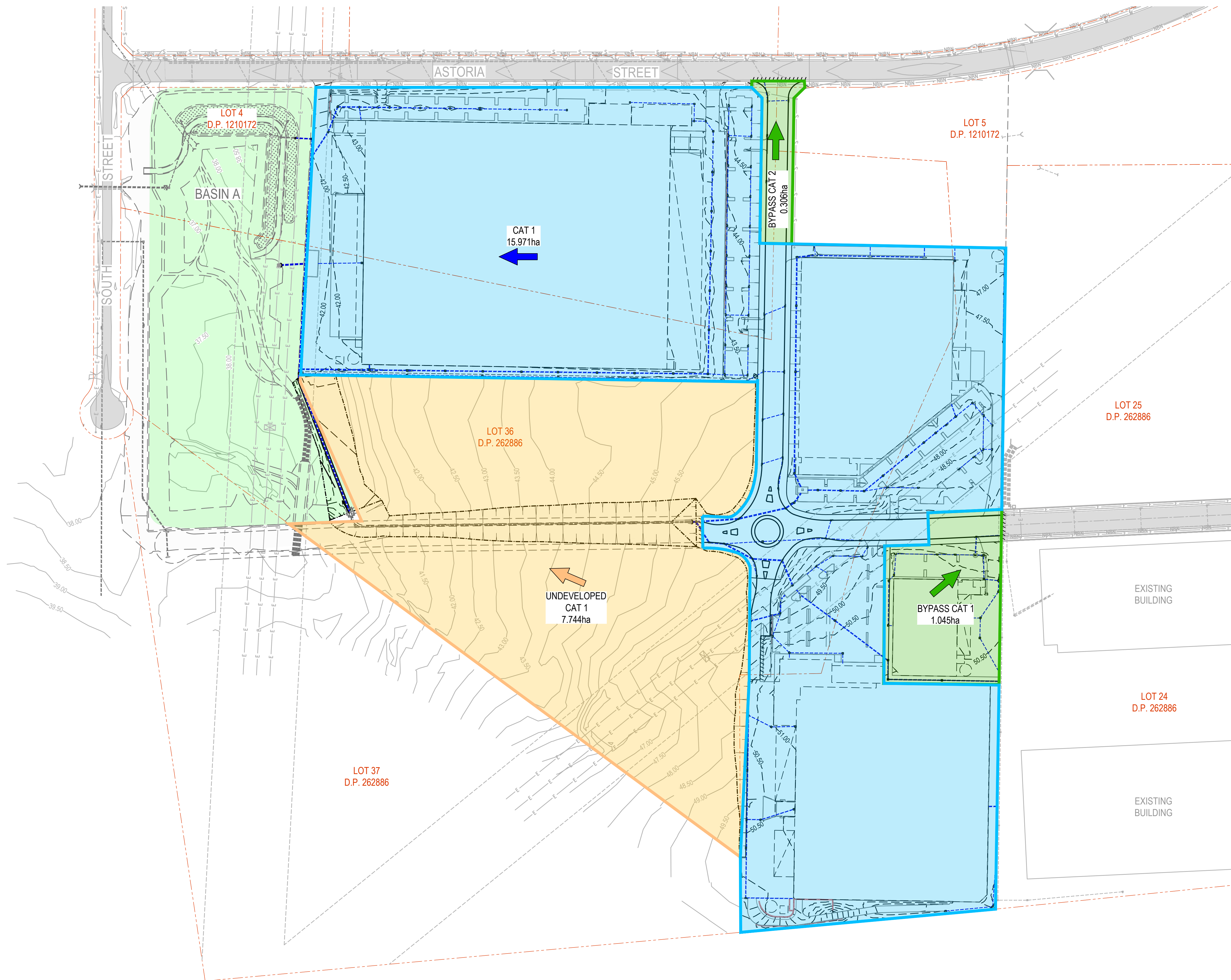


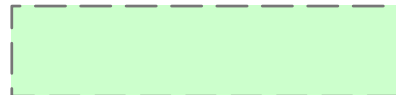
INSET A

FOR CONTINUATION REFER INSET A

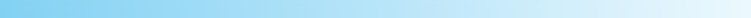
ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

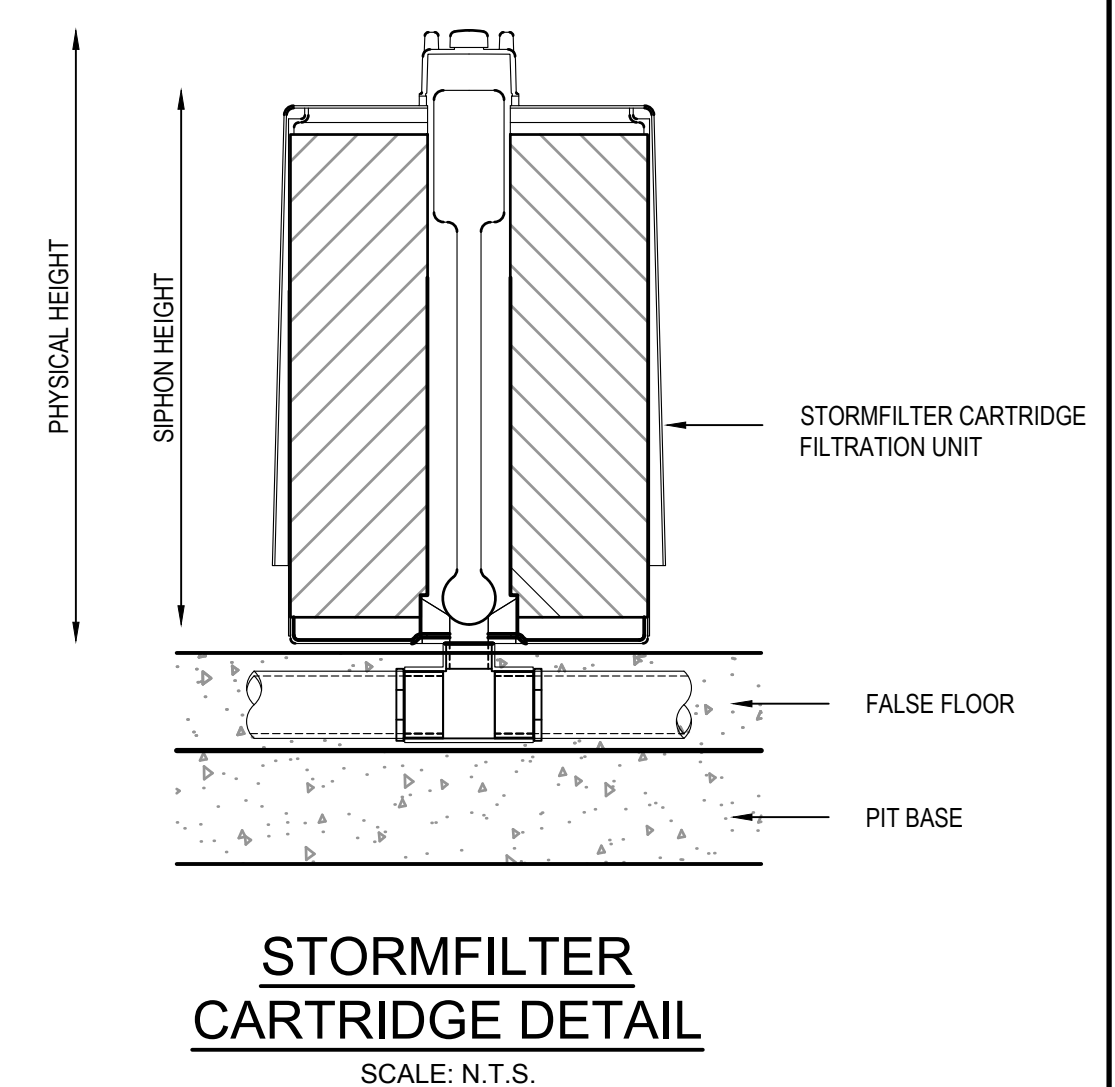
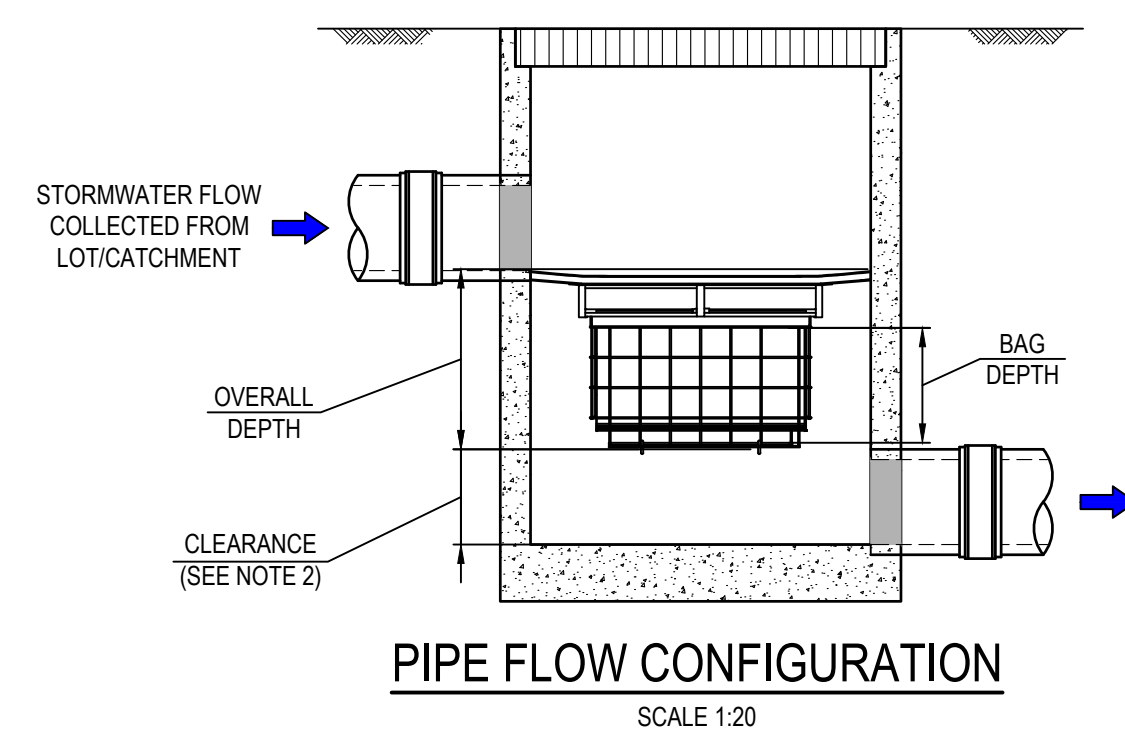
						Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD	Scale: 0102030405060708090100 SCALE 1:1000 (A1) SCALE 1:2000 (A3)	For:	sydney business park	By:	Orion Consulting ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au	SUSTAINABLE ISO 9001 WWW.JAS-ANZ.COM/REGISTER	Project:	STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN	Title:	STORMWATER CATCHMENT PLAN	Project No. 20-0127	Set No. 02	Milestone DA	Plan 400	Revision A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</



LEGEND	
CATCHMENT NAME, DIRECTION OF FALL & AREA	DESIGN 0.0001ha 
CONTOURS (EXISTING & DESIGN)	 -10.0 -  -20.0 - 
DRAINAGE (EXISTING, FUTURE & DESIGN)	  
APPROXIMATE UNDEVELOPED CATCHMENT AND BOUNDARY	
PROPOSED BASIN DESIGN CATCHMENT AND BOUNDARY	
APPROXIMATE EXTENT OF BYPASS CATCHMENT	
BASIN A NOT PART OF THIS APPLICATION. APPROVAL BY BLACKTOWN CITY COUNCIL UNDER SEPERATE S7.11 PROCESS. FINAL APPROVAL EXPECTED PRIOR TO CONSTRUCTION OF STAGE 3.	

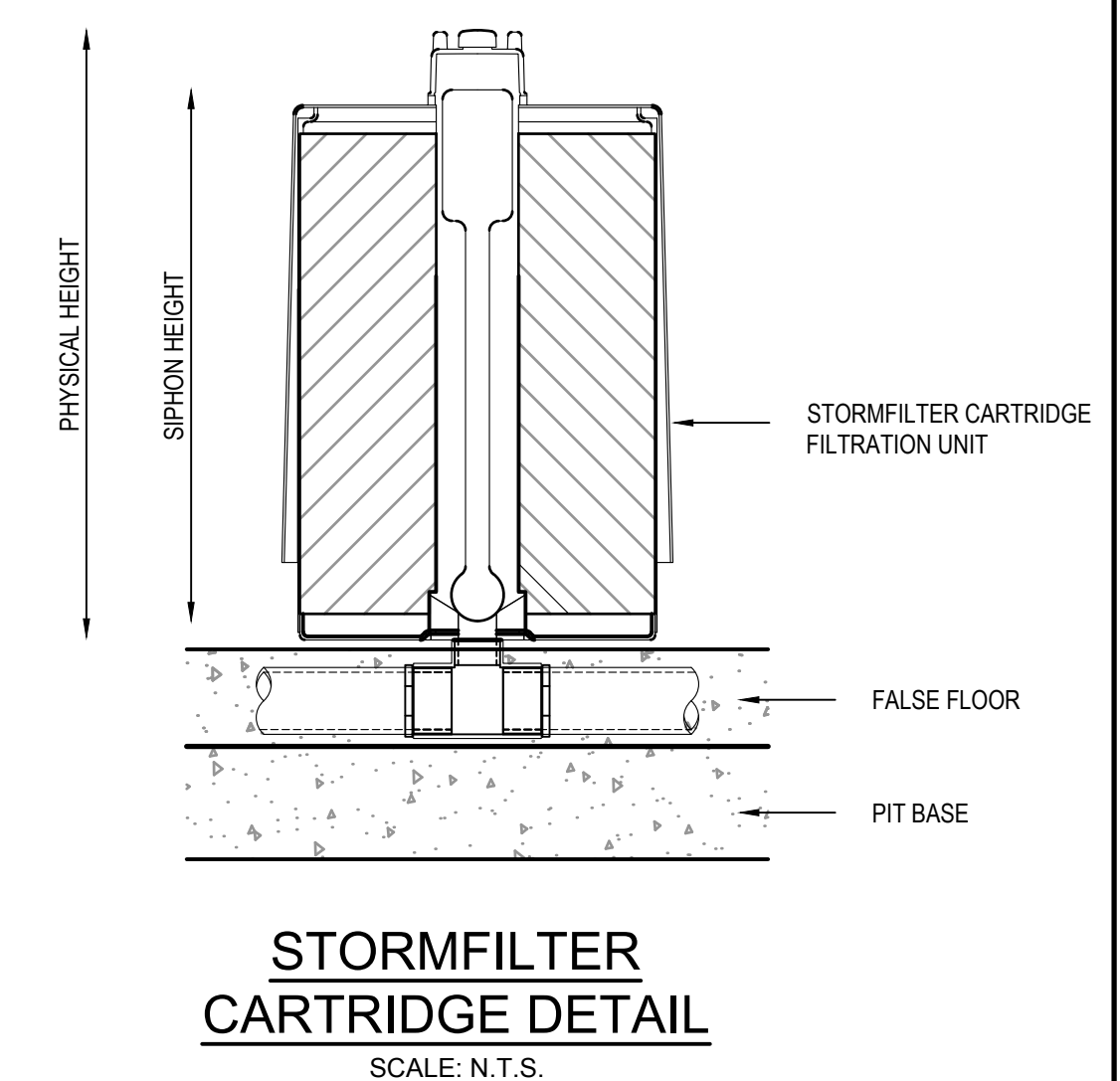
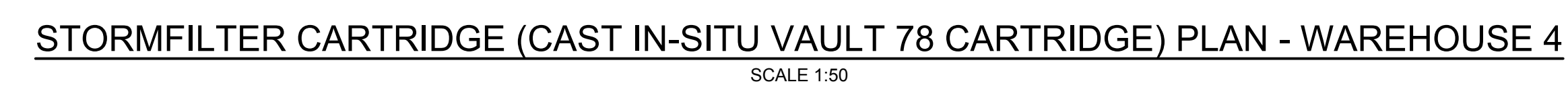
ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

						Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD		Scale: 		For: 		By:  ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au		Project: STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN		Title: OVERALL STORMWATER CATCHMENT PLAN					
Rev Drawn Design Appd. Date Revision Description												Project No. 20-0127		Set No. 02		Milestone DA		Plan 401		Revision A	



ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

[illegible]



STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

Title: WATER QUALITY DETAILS
SHEET 02 OF 02

Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	406	A

						Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION	
Rev	Drawn	Design	Appd.	Date	Revision	Description

Scale:

0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

SCALE 1:50 (A1) SCALE 1:100 (A3)

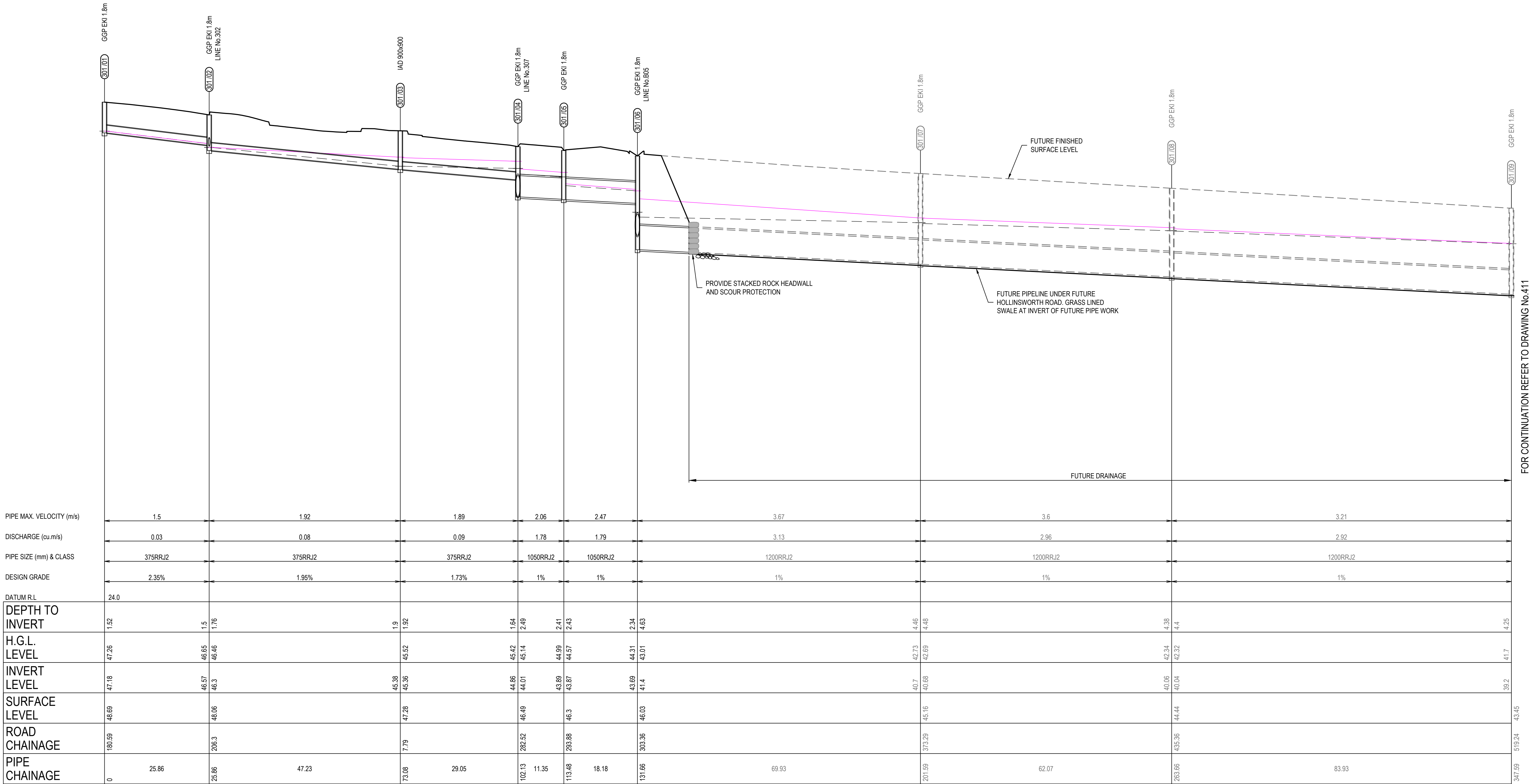


By:  **Orion Consulting**

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

LEGEND	
PROPOSED PIPE	
FINISHED DESIGN SURFACE LEVEL	
FUTURE PIT & PIPES	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	

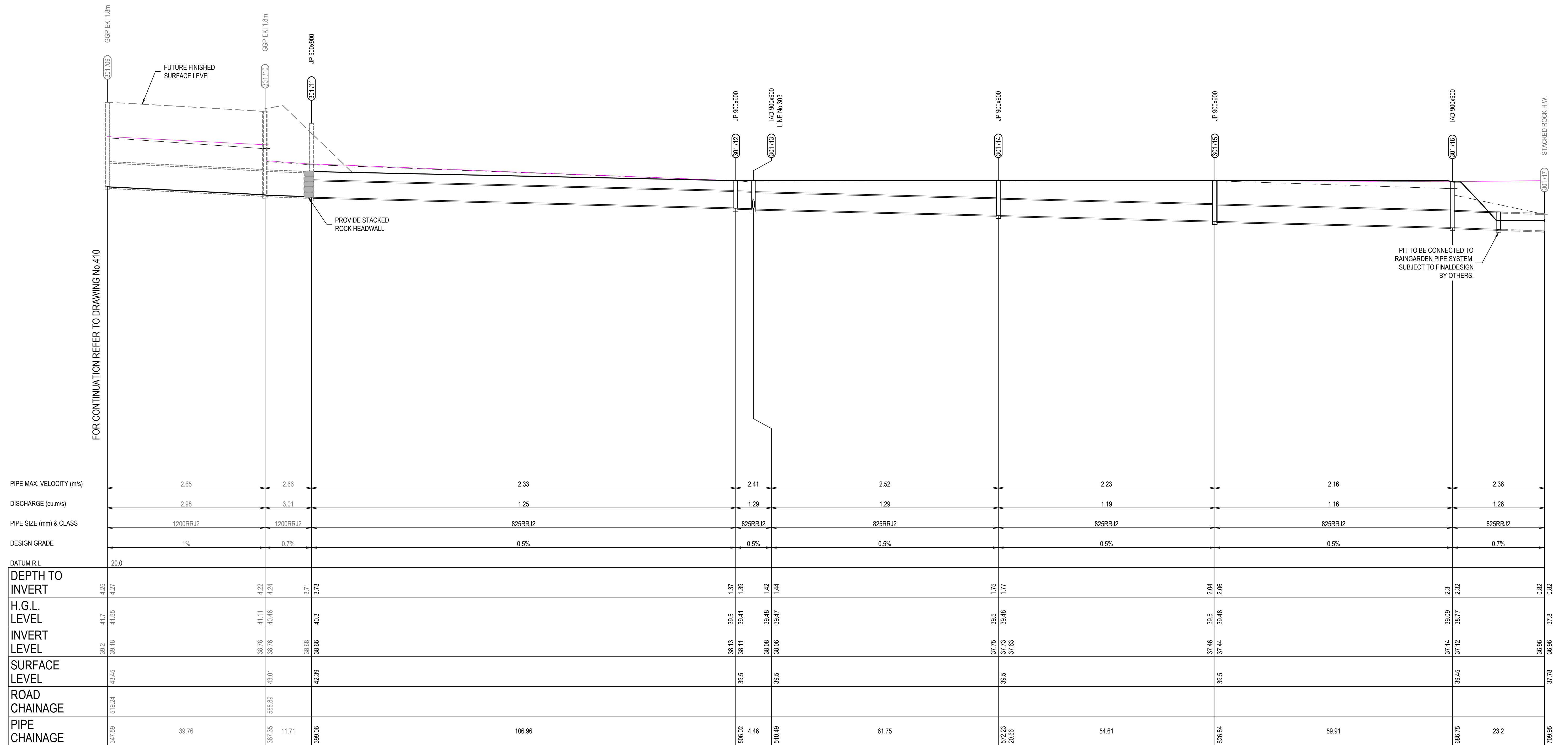


LINE 301

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

					Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD		Scale: 05101520253035404550 SCALE 1:500 (A1) 012345678910 SCALE 1:100 (A1) 012345678910 SCALE 1:200 (A3)		For: sydney business park		By: Orion Consulting ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au		SUSTAINABLE ISO 9001 JAS-ANZ www.jas-anz.org/register		Project: STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN		Title: DRAINAGE LONG SECTIONS SHEET 01 OF 15					
Rev	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION							Project No. 20-0127		Set No. 02		Milestone DA		Plan 410		Revision A		
					Revision Description																	

LEGEND	
PROPOSED PIPE	
FINISHED DESIGN SURFACE LEVEL	
FUTURE PIT & PIPES	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	

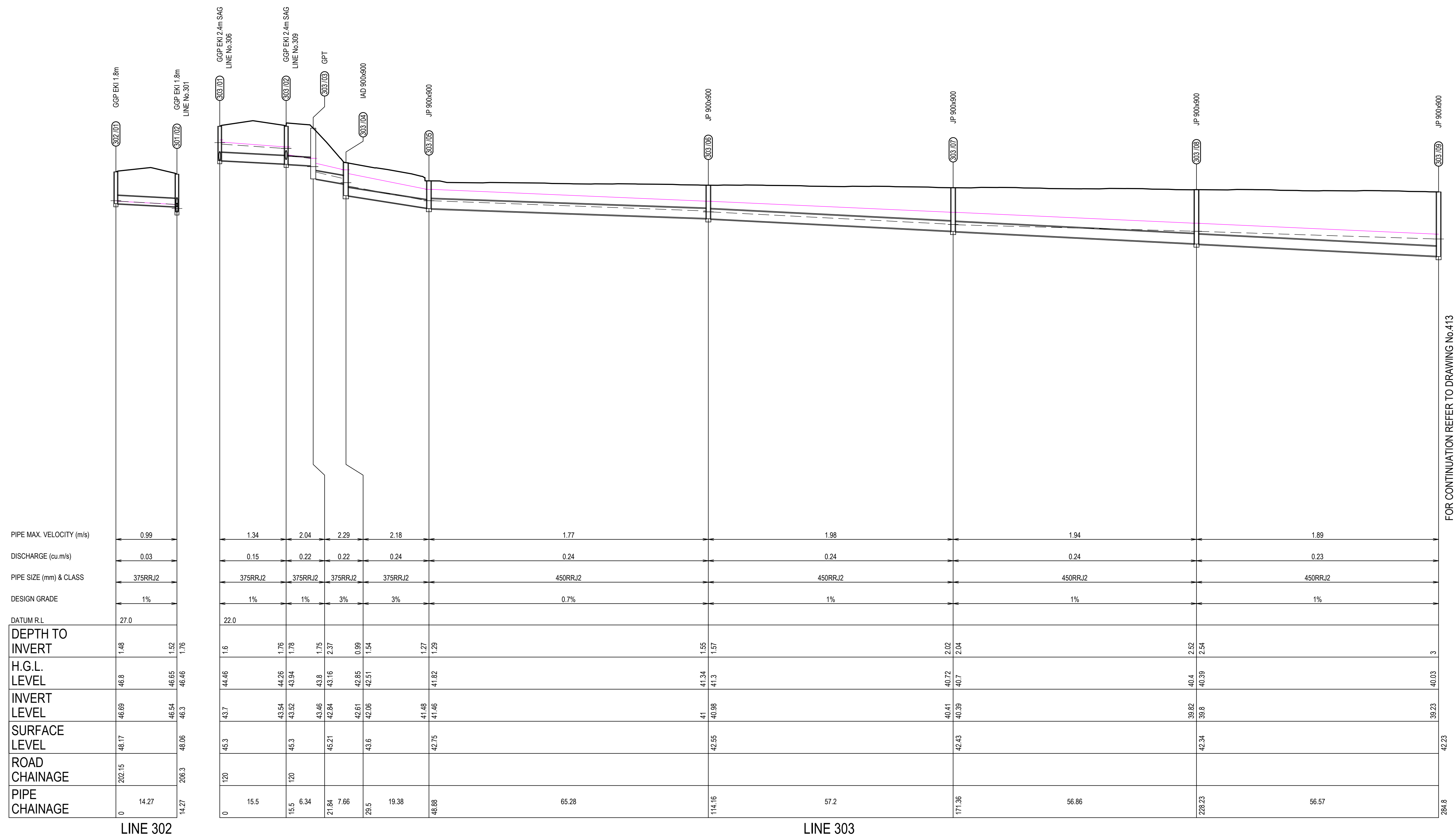


LINE 301

ISSUED FOR DEVELOPMENT APPLICATION
NOT FOR CONSTRUCTION

[illegible]

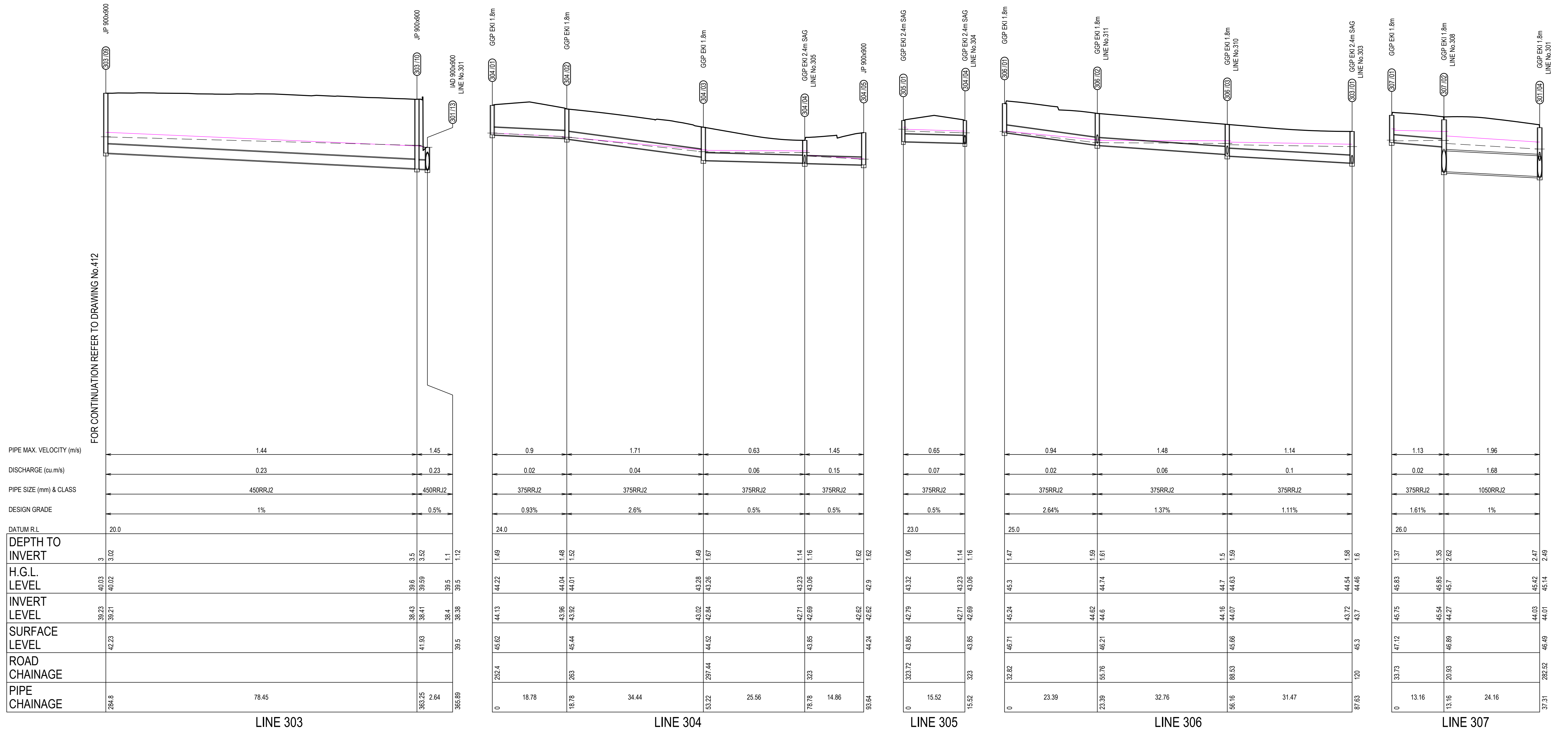
LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	



ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

[illegible]

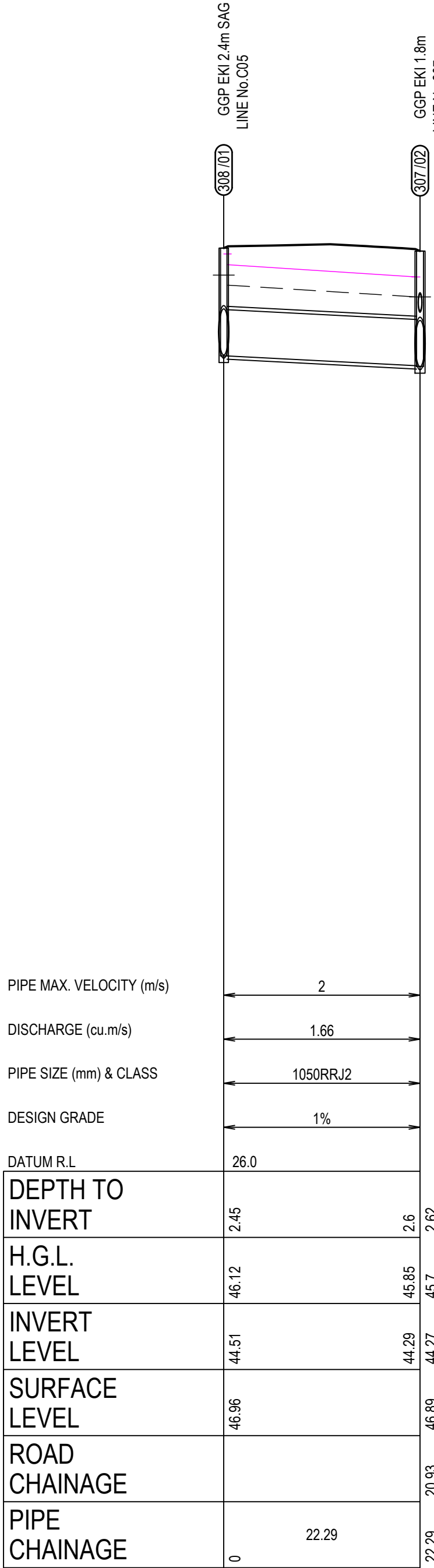
LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	



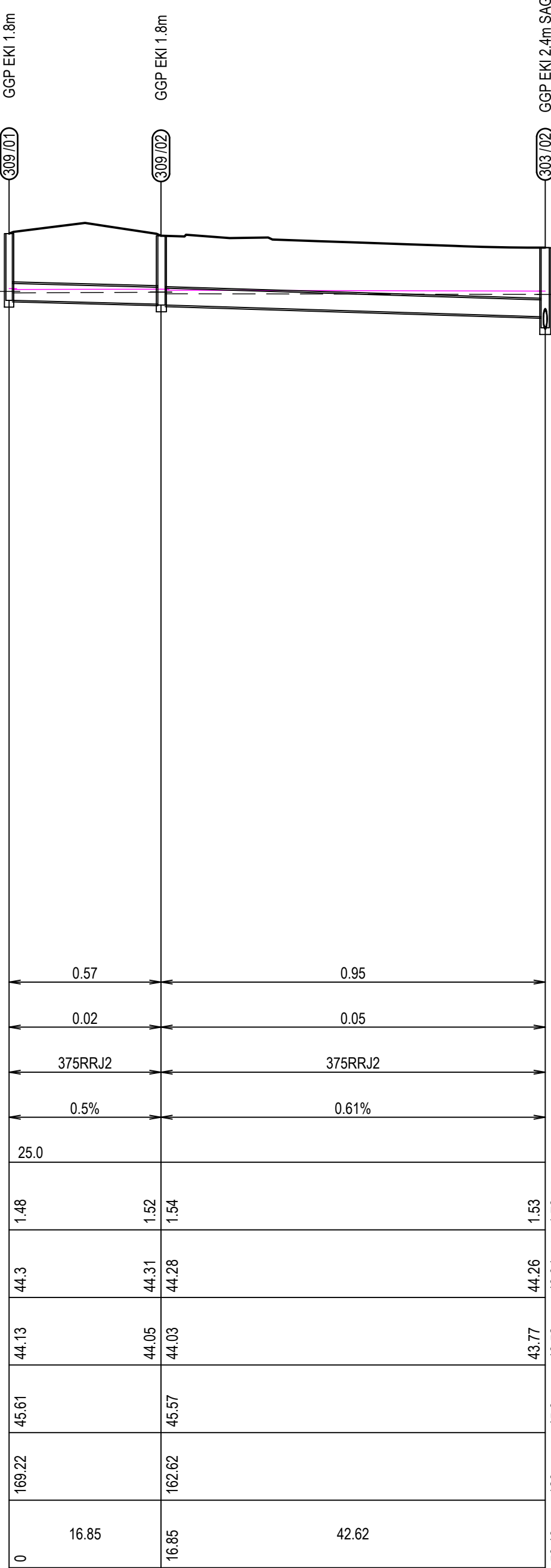
ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

[illegible]

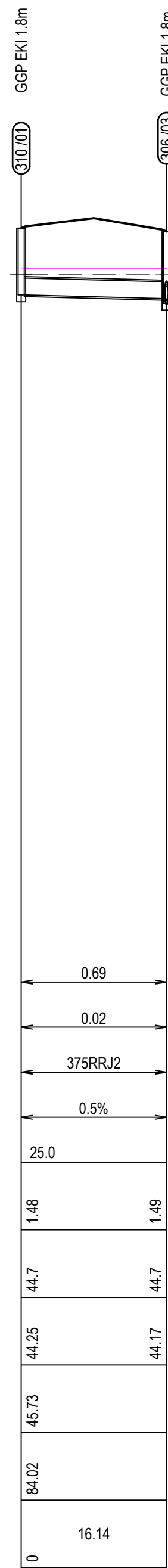
LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	



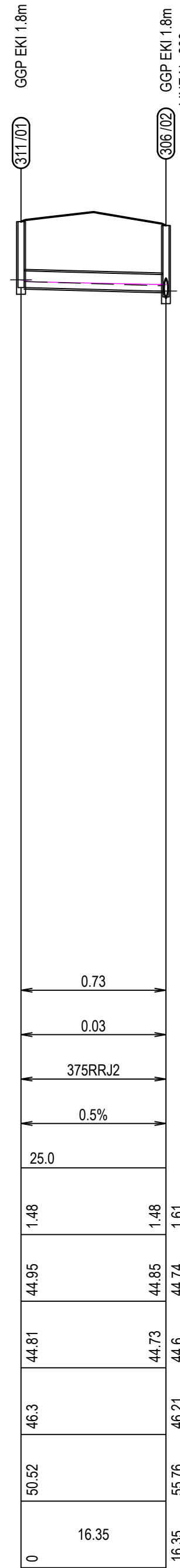
LINE 308



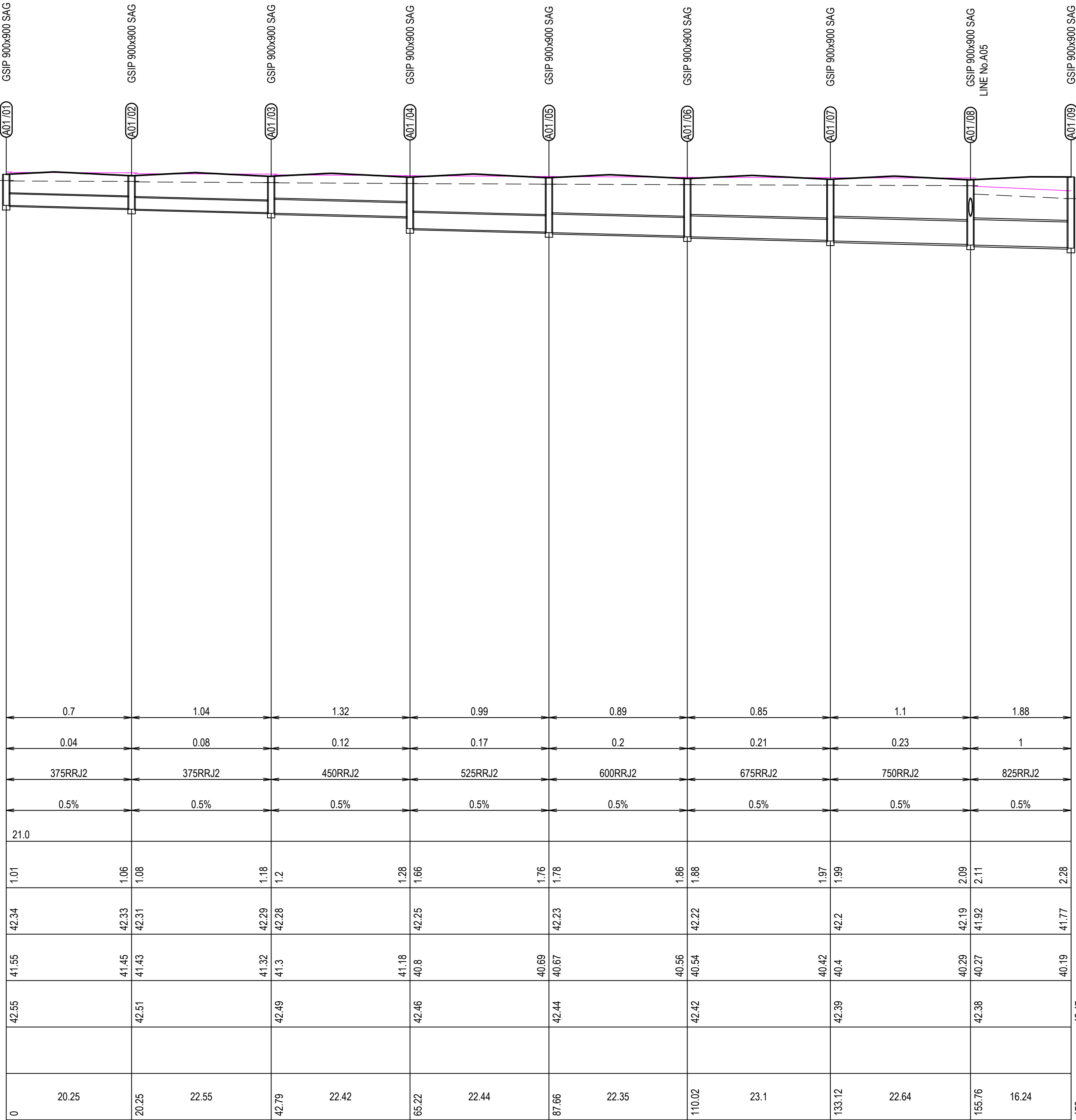
LINE 309



LINE 310



LINE 311



LINE A01

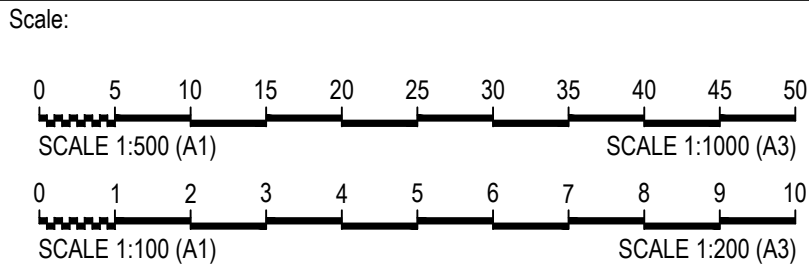
FOR CONTINUATION REFER TO DRAWING No.415

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Project: File Name: C:\Users\Orion\OneDrive\Documents\SYDNEY\20-0127-DA-414.dwg

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



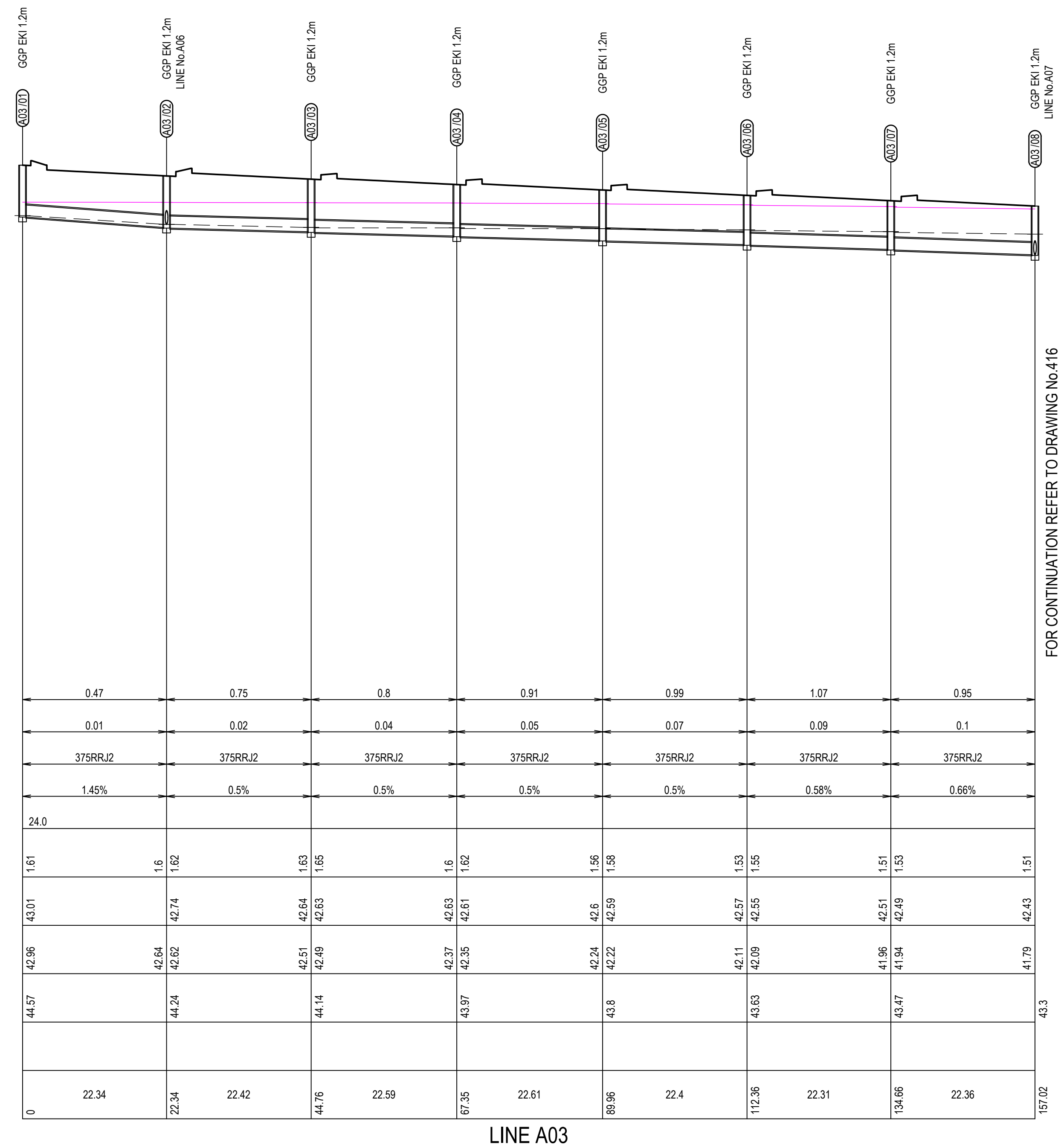
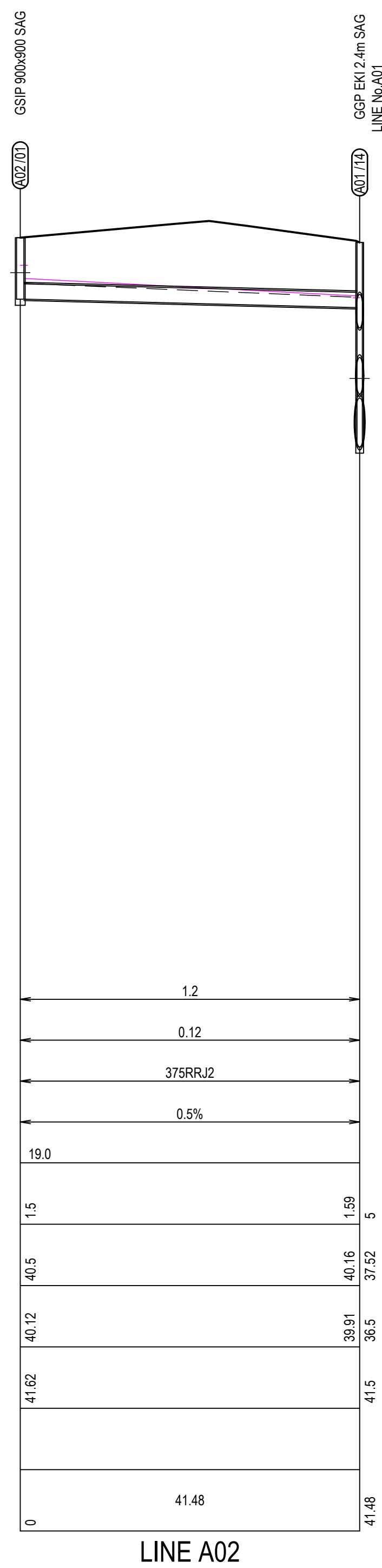
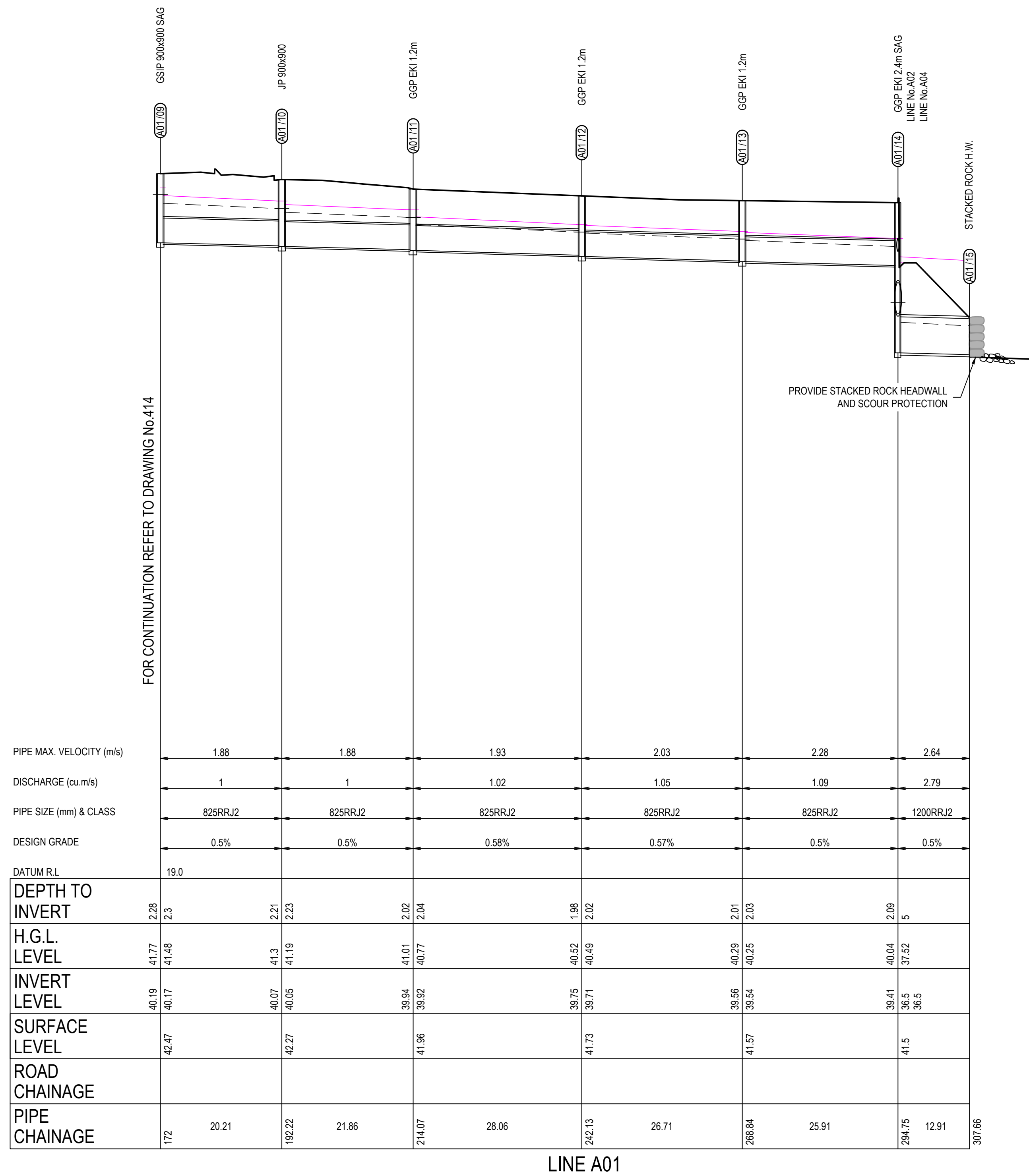
By: **Orion Consulting**

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

Project: **STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN**

Title: DRAINAGE LONG SECTIONS SHEET 05 OF 15				
Project No. 20-0127	Set No. 02	Milestone DA	Plan 414	Revision A

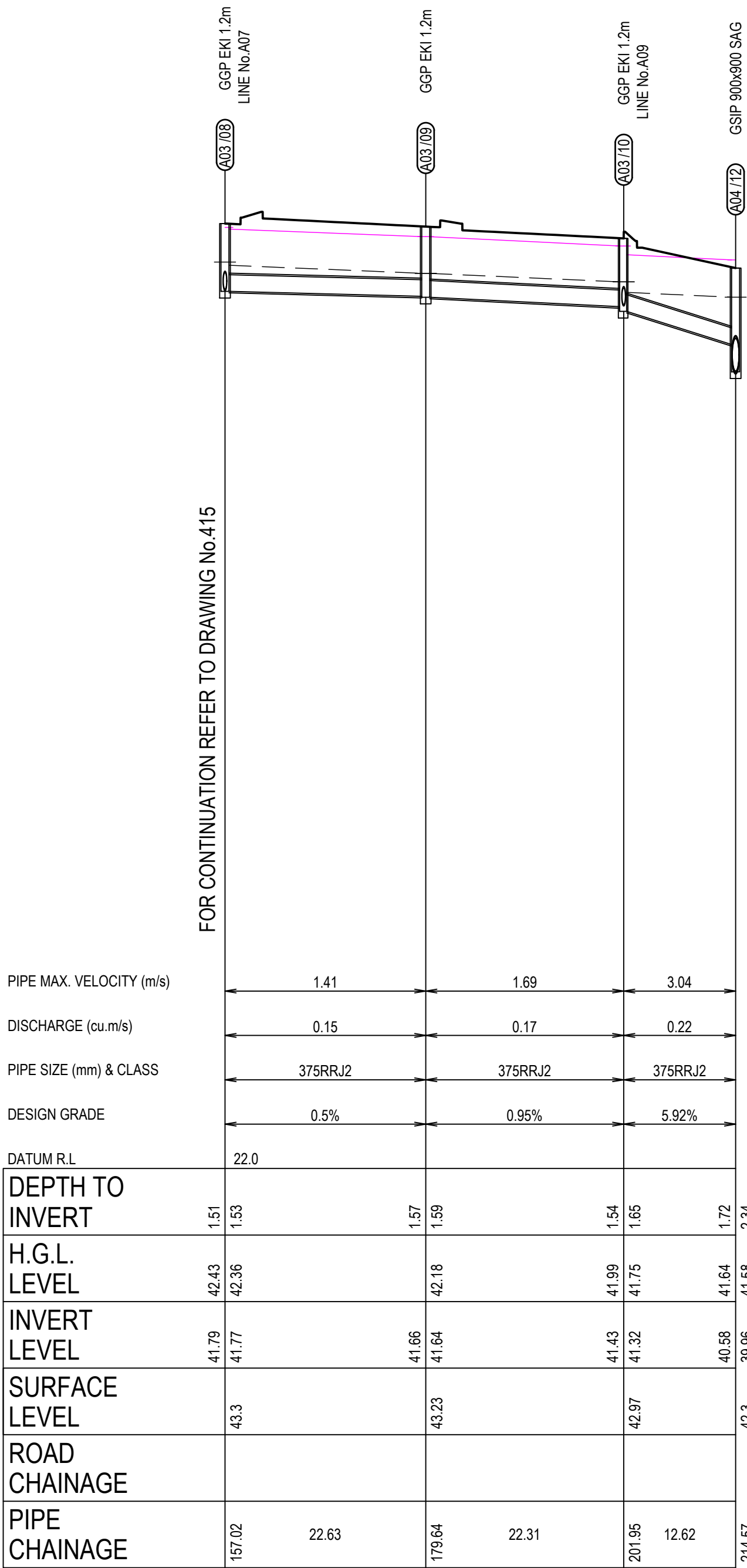
LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	



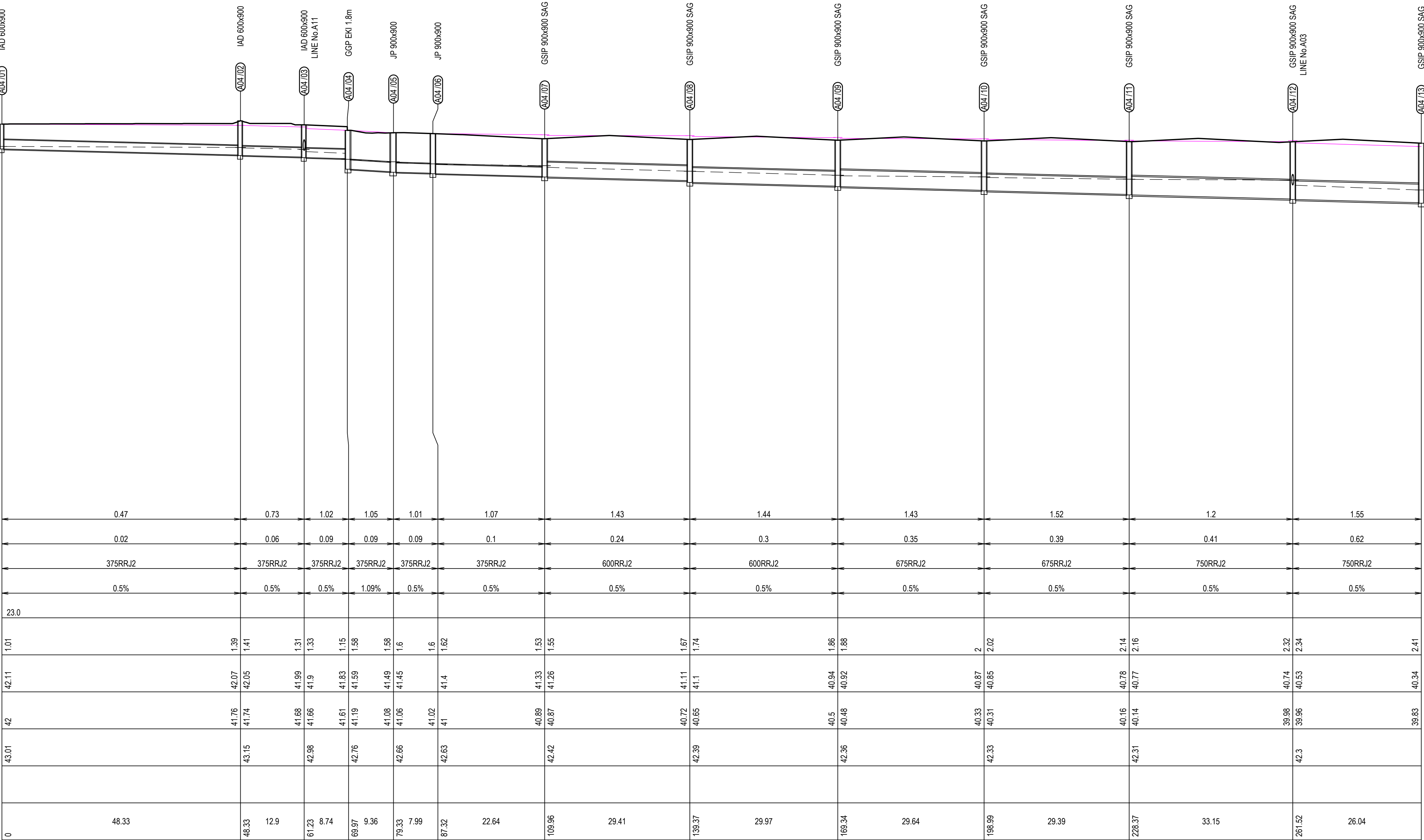
ISSUED
FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

						ISSUED FOR DEVELOPMENT APPLICATION	DISCLAIMER AND COPYRIGHT: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD	Scale: 05101520253035404550 SCALE 1:500 (A1) 012345678910 SCALE 1:100 (A1)	For: sydney business park	By: Orion Consulting ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au	SUSTAINABLE CONSTRUCTION ✓ISO 9001 JAS-ANZ REGISTERED WWW.JAS-ANZ.COM/REGISTER	Project: STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN	Title: DRAINAGE LONG SECTIONS SHEET 06 OF 15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	



LINE A03



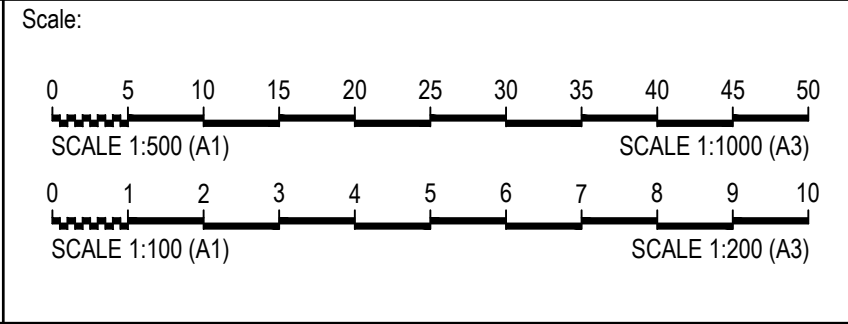
LINE A04

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Project: File Name: C:\Users\Glen\OneDrive\SYDNEY\02-03-Development Application_2020\DWG\20-0127-DA-416.dwg

Rev	MS	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP		31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



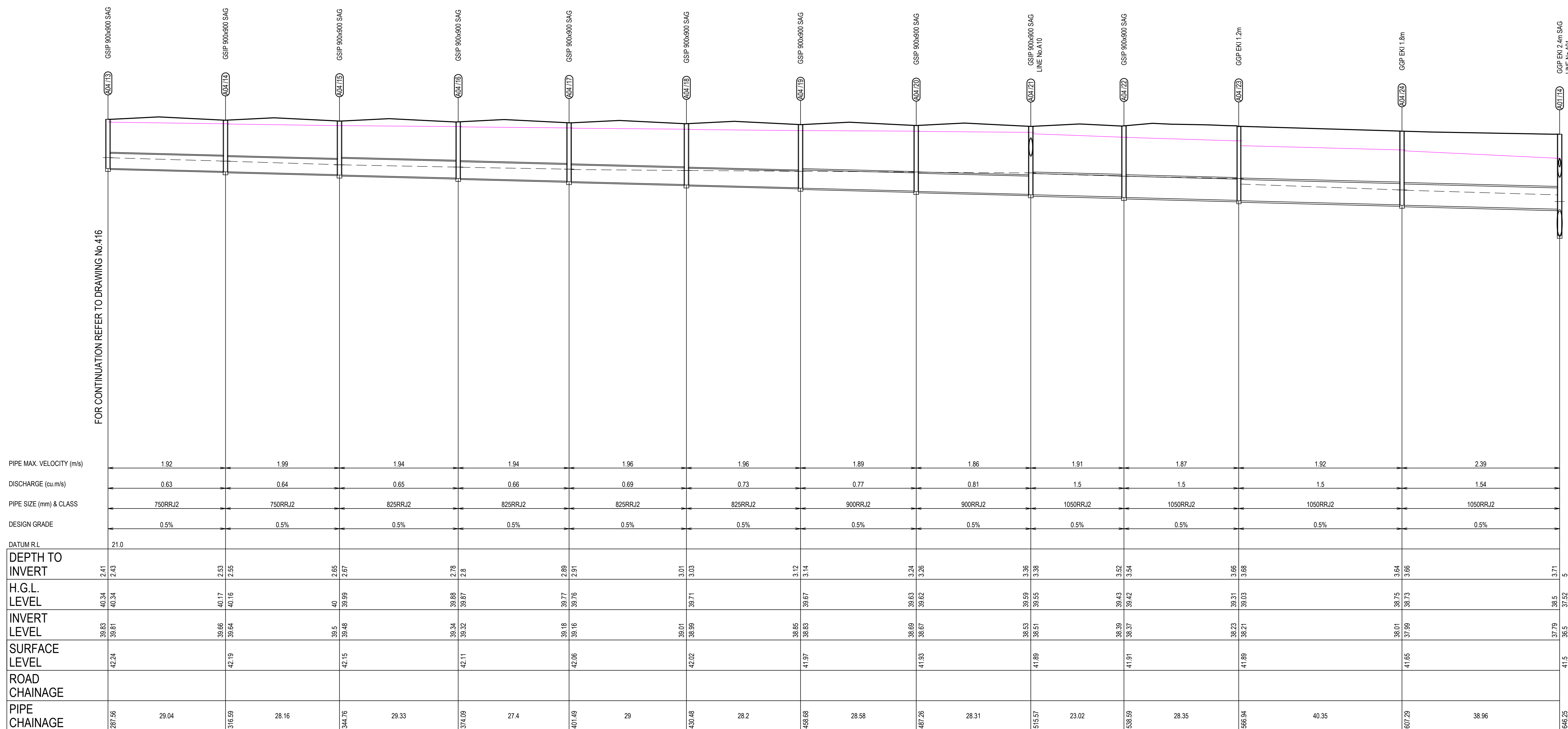
By: **Orion Consulting**
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

For:

Project: **STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN**

Title: DRAINAGE LONG SECTIONS SHEET 07 OF 15				
Project No. 20-0127	Set No. 02	Milestone DA	Plan 416	Revision A

LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	

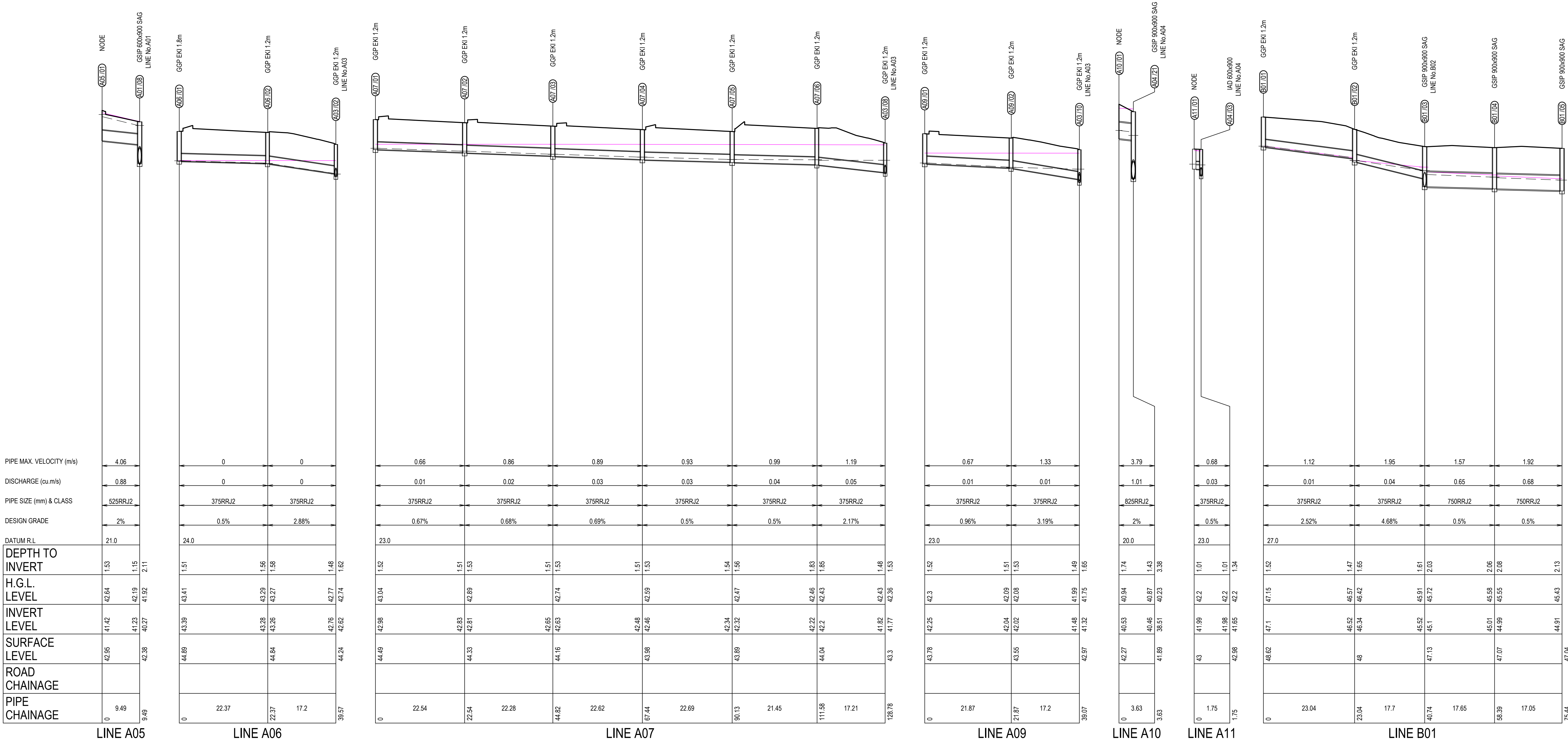


LINE A04

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Project File Name: C:\Users\GROU\Documents\20-0127.dwg						Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD	Scale: 05101520253035404550 SCALE 1:500 (A1) 012345678910 SCALE 1:100 (A1) SCALE 1:1000 (A3) SCALE 1:200 (A3)	For: sydney business park	By: Orion Consulting ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au SUSTAINABLE CERTIFIED ISO 9001 JAS-ANZ www.jas-anz.com.au	Project: STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN	Title: DRAINAGE LONG SECTIONS SHEET 08 OF 15 <table><tr><td>Project No.</td><td>Set No.</td><td>Milestone</td><td>Plan</td><td>Revision</td></tr><tr><td>20-0127</td><td>02</td><td>DA</td><td>417</td><td>A</td></tr></table>					Project No.	Set No.	Milestone	Plan	Revision	20-0127	02	DA	417	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Project No.	Set No.	Milestone	Plan	Revision																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
20-0127	02	DA	417	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION	Revision Description																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	

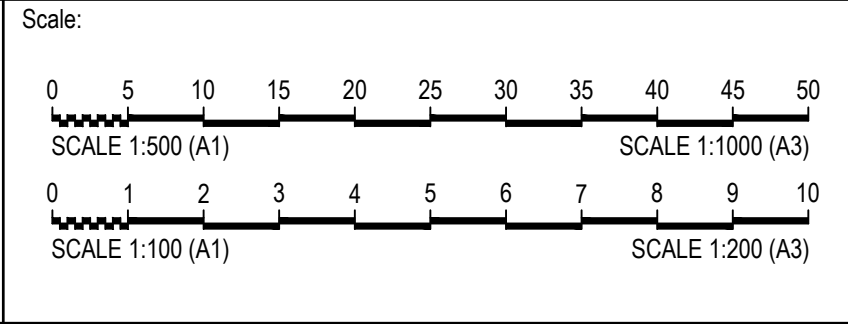


ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Project: File Name: C:\Users\Gordon\OneDrive\Documents\SYDNEY\20-0127\20-0127-02-04-18.dwg

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



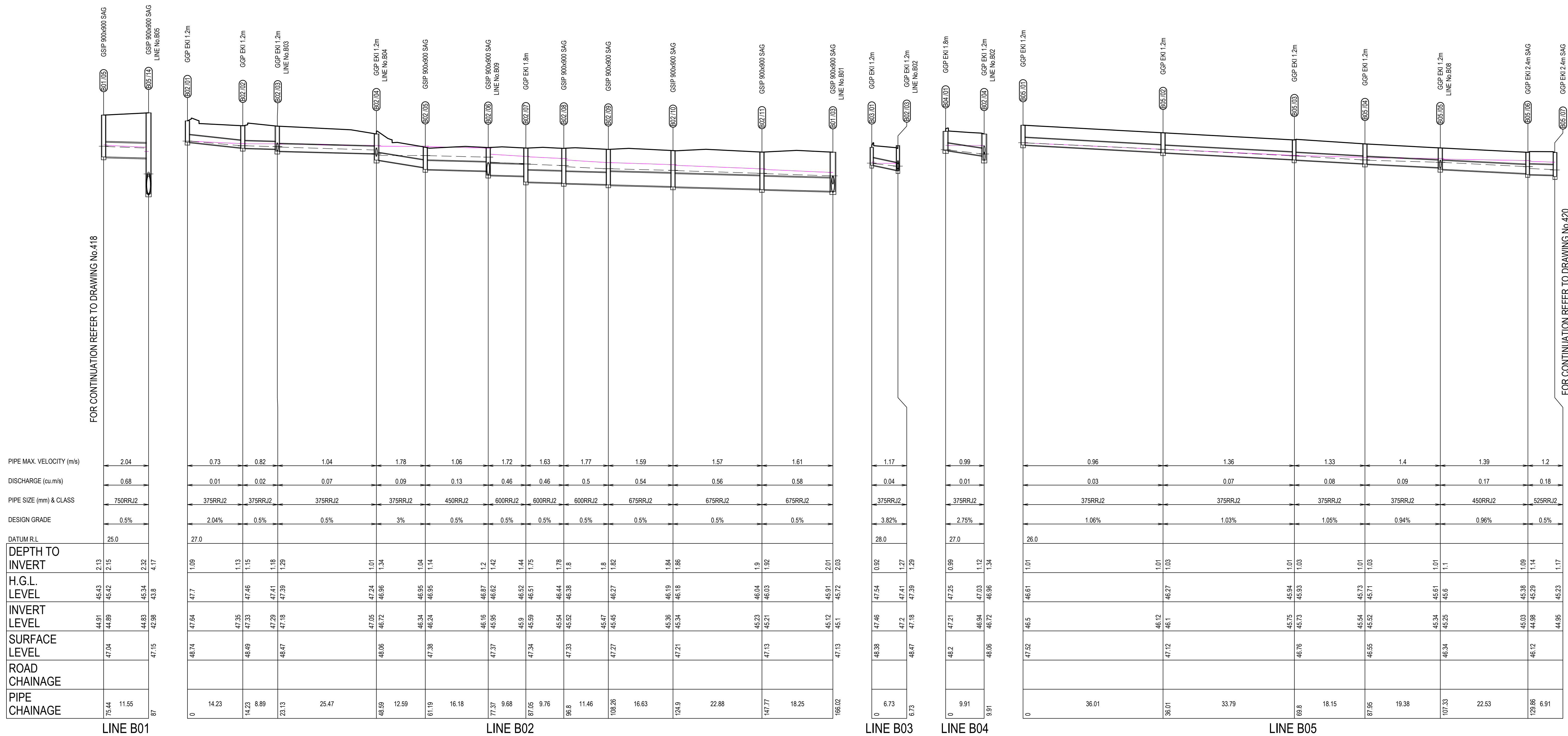
By: **Orion Consulting**
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

JAS-ANZ
SUSTAINABLE
CORPORATION
ISO 9001
WWW.JAS-ANZ.COM/REGISTER

Project: **STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN**

Title: DRAINAGE LONG SECTIONS SHEET 09 OF 15				
Project No. 20-0127	Set No. 02	Milestone DA	Plan 418	Revision A

LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	

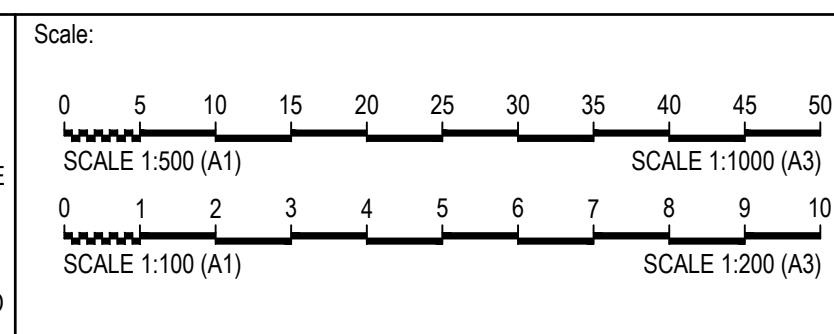


ISSUED FOR DEVELOPMENT APPLICATION
NOT FOR CONSTRUCTION

Title:				
DRAINAGE LONG SECTIONS SHEET 10 OF 15				
Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	419	A

A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION
Rev	Drawn	Design	Appd.	Date	Revision Description

Disclaimer and Copyright:	ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD.
---------------------------	---



For:

The logo for Sydney Business Park, featuring a red square with a 3D effect and the text "sydney business park" in white lowercase letters.

By:  **Orion Consulting**

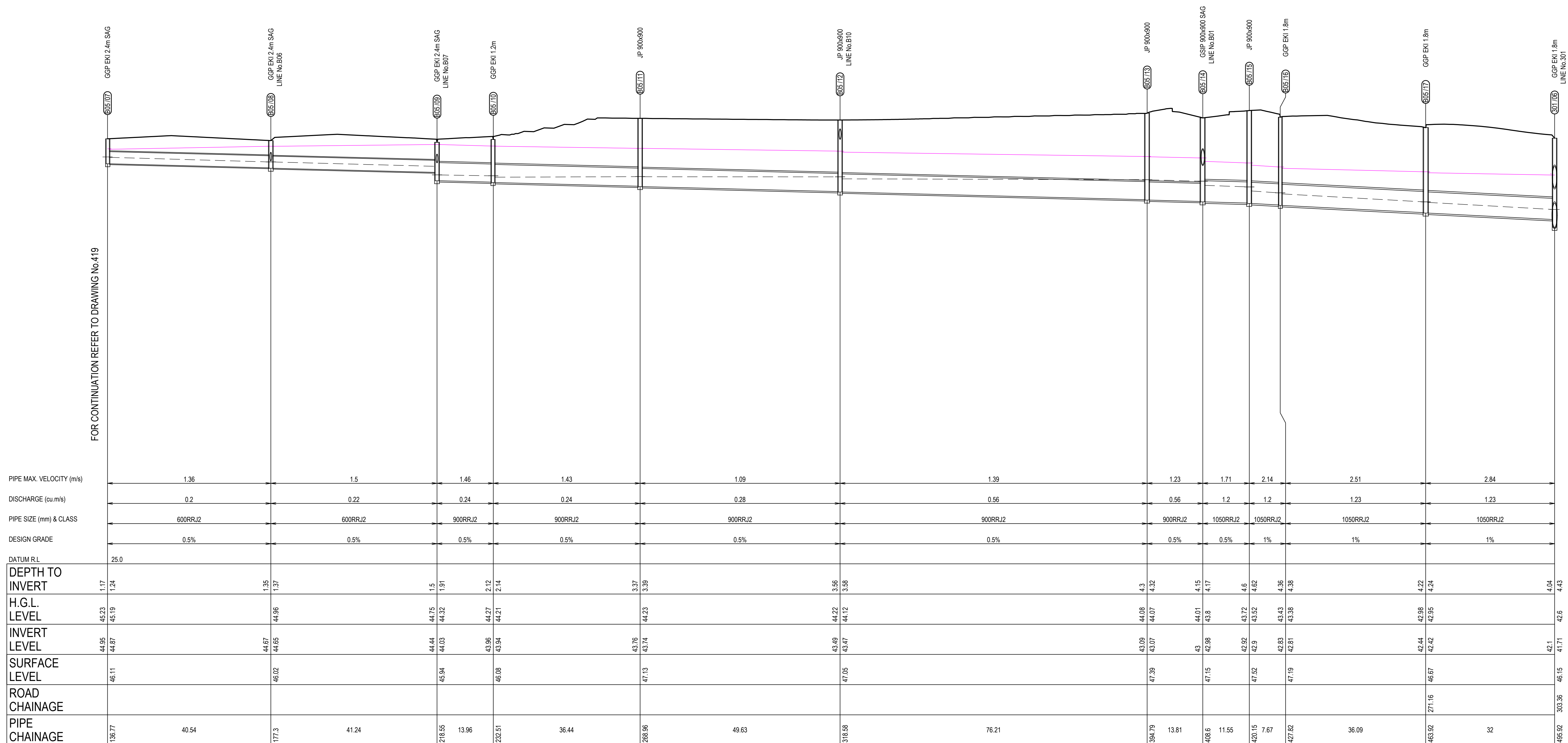
www.jas-anz.org/register

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

Project:

STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

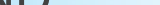
LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	

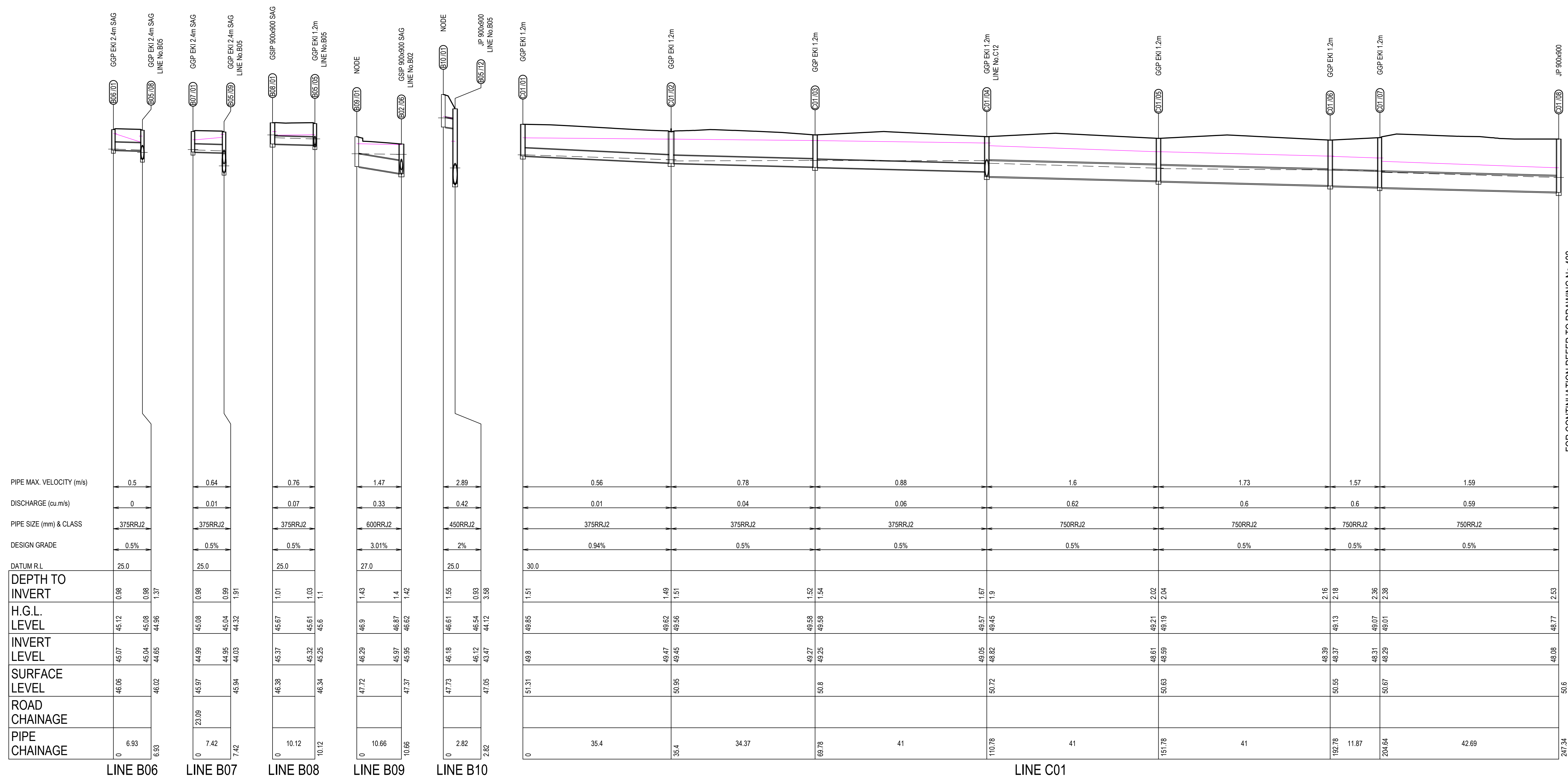


LINE B05

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

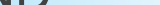
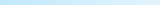
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

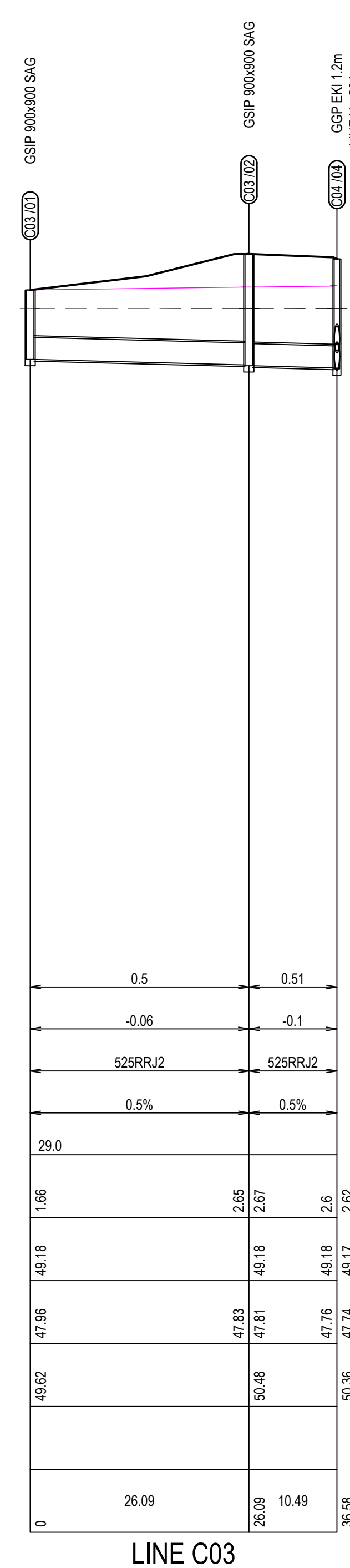
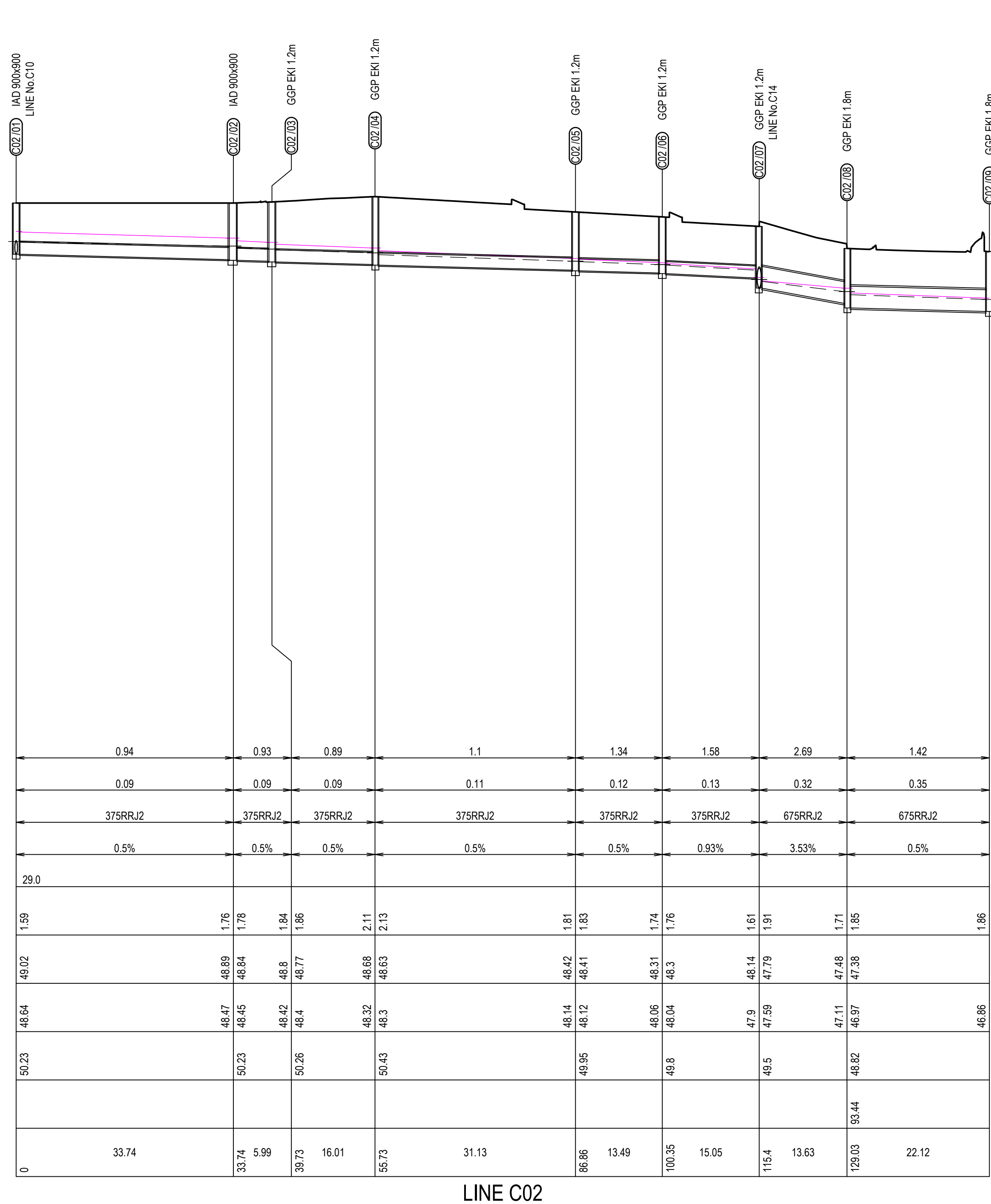
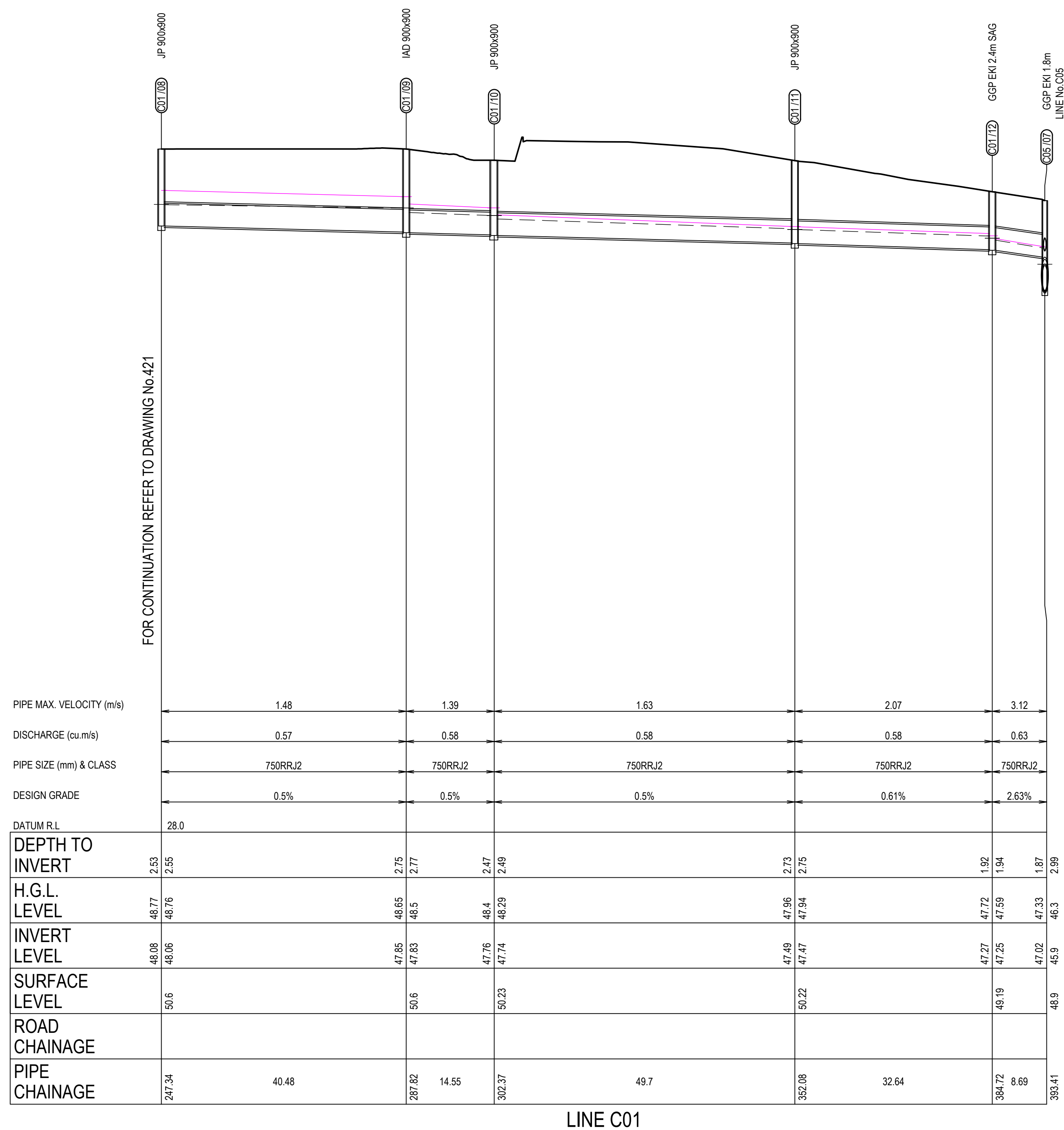
LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	



ISSUED
FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

						Disclaimers and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD										Scale: 05101520253035404550 SCALE 1:500 (A1) 012345678910 SCALE 1:100 (A1) SCALE 1:1000 (A3) SCALE 1:200 (A3)										For: sydney business park										By: Orion Consulting ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au										Project: SUSTAINABLE DESIGN ISO 9001 JAS-ANZ REGISTERED STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN										Title: DRAINAGE LONG SECTIONS SHEET 12 OF 15																													
Rev A MS DH MP 31/07/2020 ISSUED FOR DEVELOPMENT APPLICATION						Revision Description																														Project No. 20-0127										Set No. 02										Milestone DA										Plan 421										Revision A									

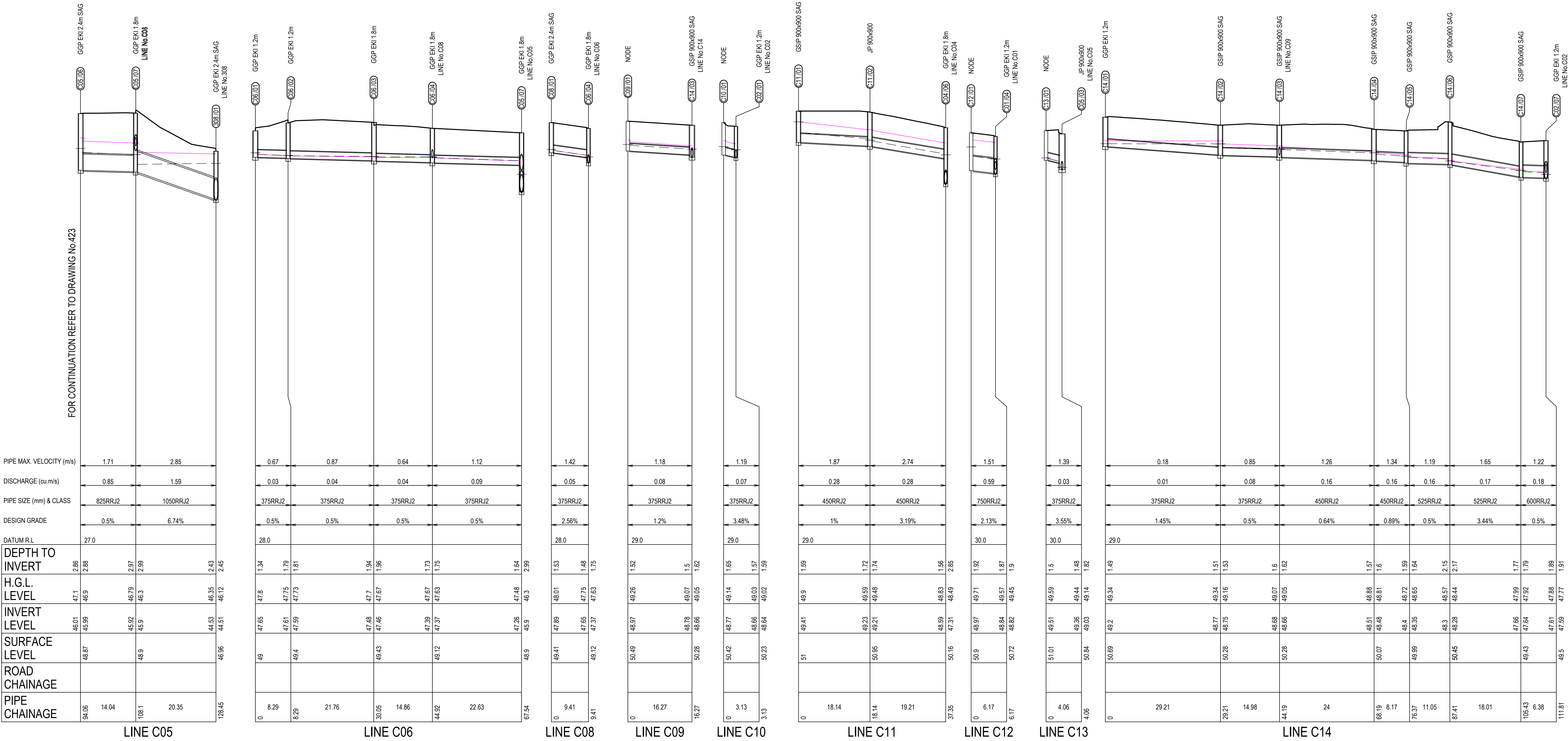
LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	



ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

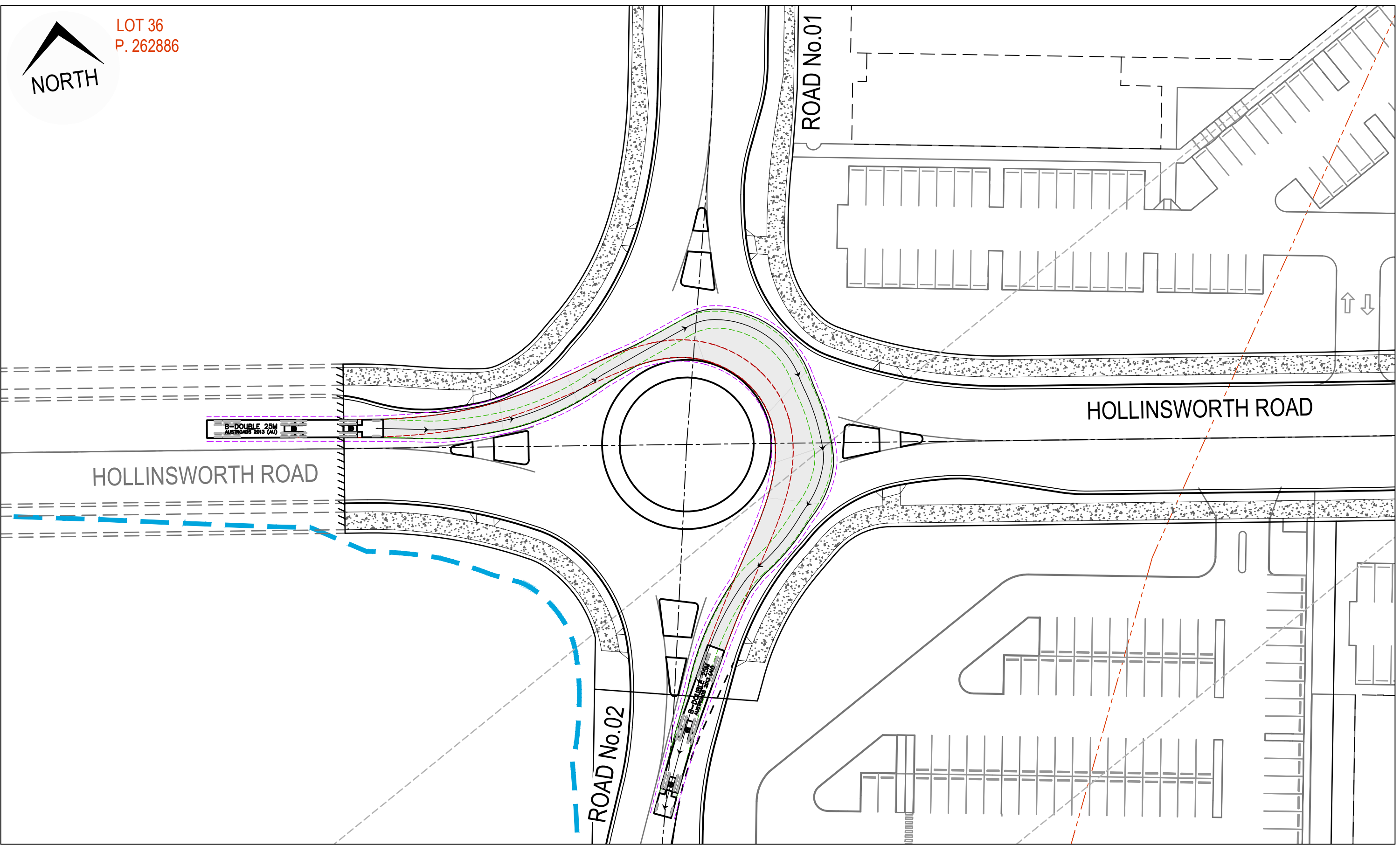
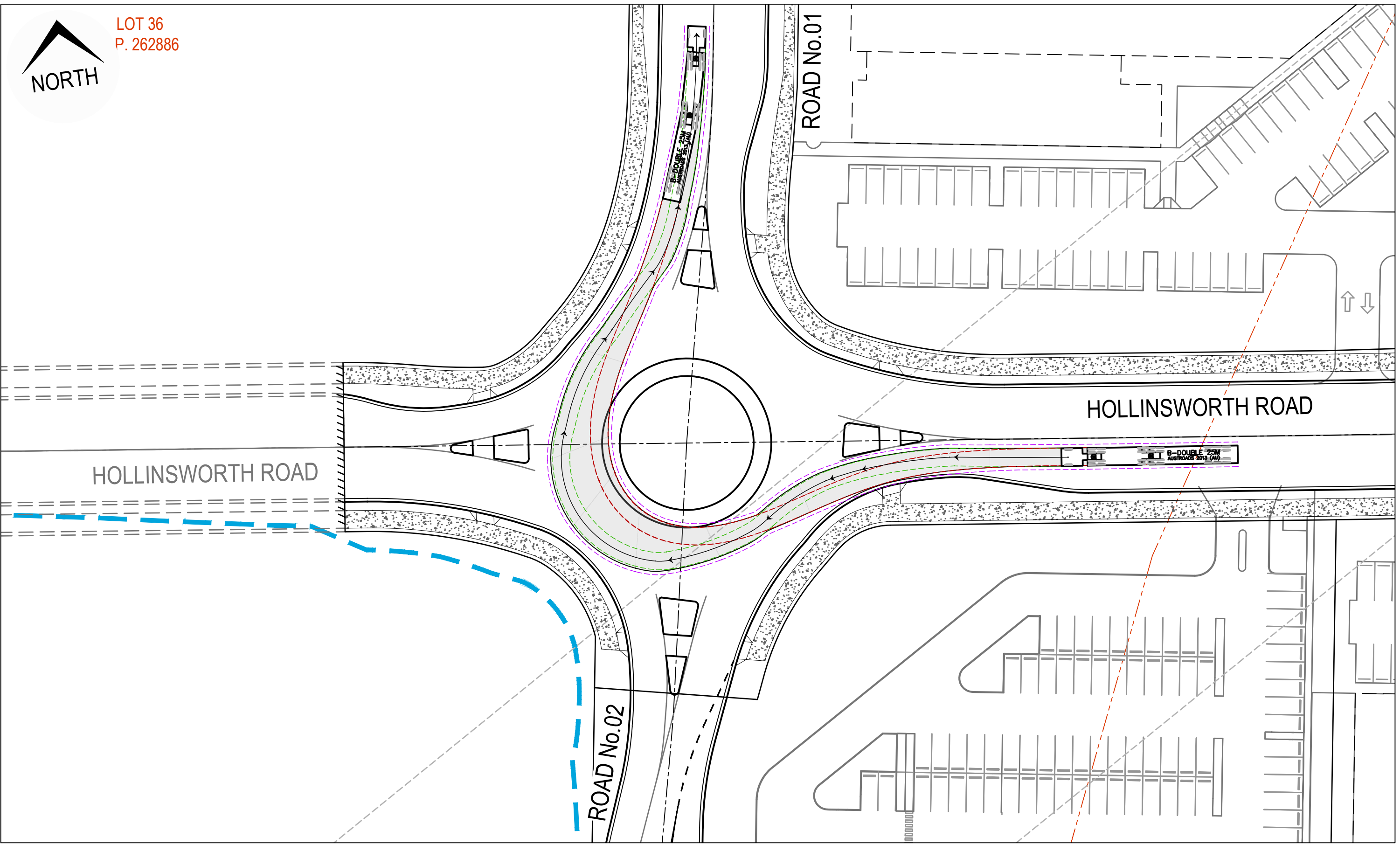
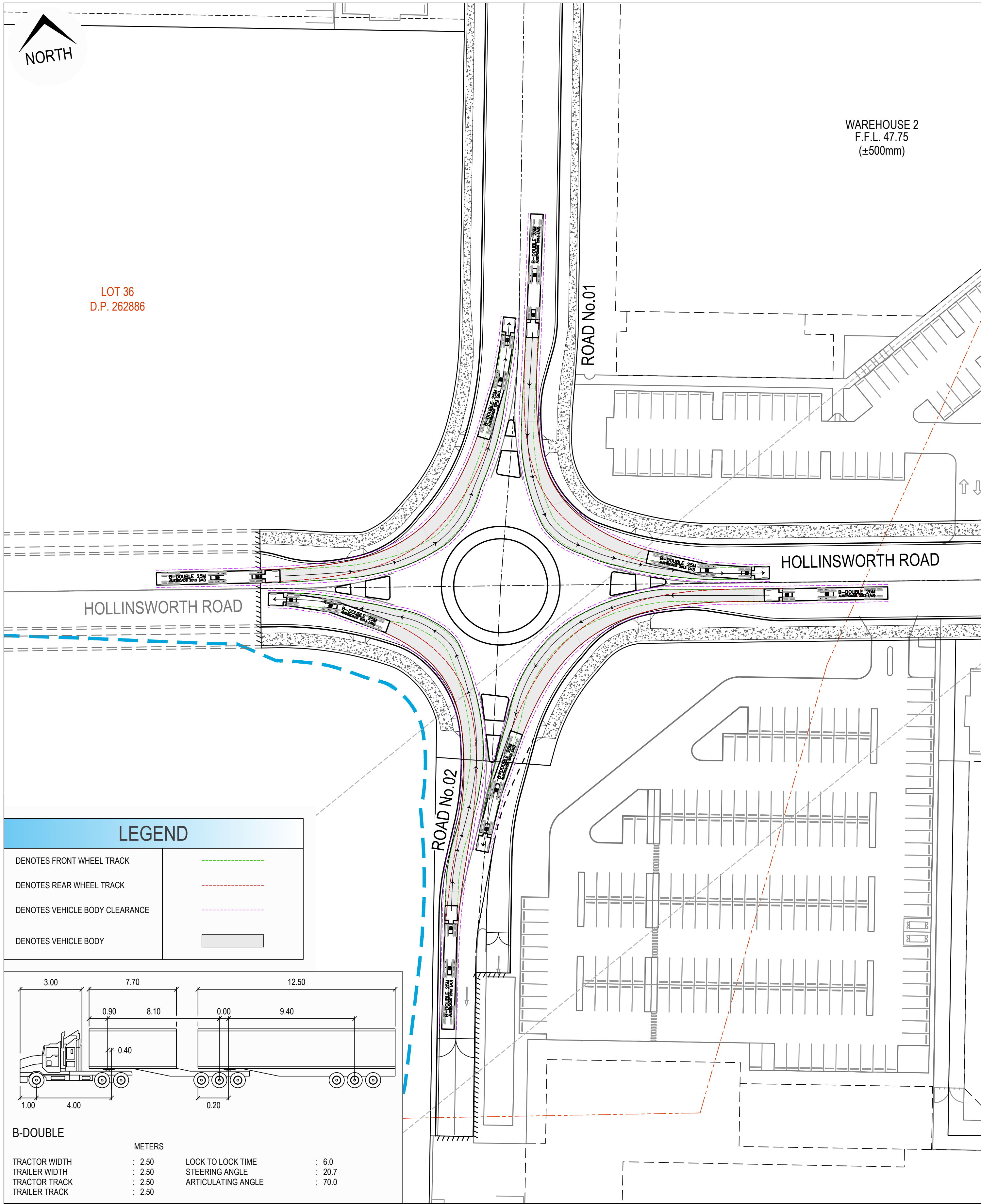
[illegible]

LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
1:20 YR ARI YEAR HGL LEVEL	
100 YEAR HGL LEVEL	



ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

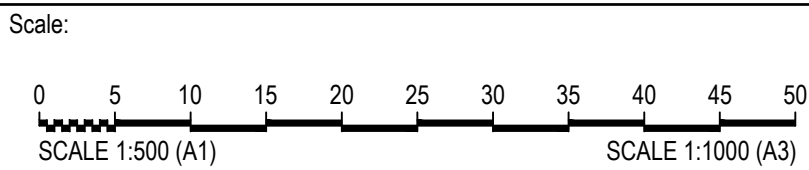
						Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD	Scale: 0 5 10 15 20 25 30 35 40 45 50 SCALE 1:500 (A1) 0 1 2 3 4 5 6 7 8 9 10 SCALE 1:100 (A1) SCALE 1:200 (A3)	For: 	By: ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au	Project: STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN	Title: DRAINAGE LONG SECTIONS SHEET 15 OF 15 Project No. 20-0127 Set No. 02 Milestone DA Plan 424 Revision A
Rev	MS	DH	MP	Date	Revision Description						



ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



By:

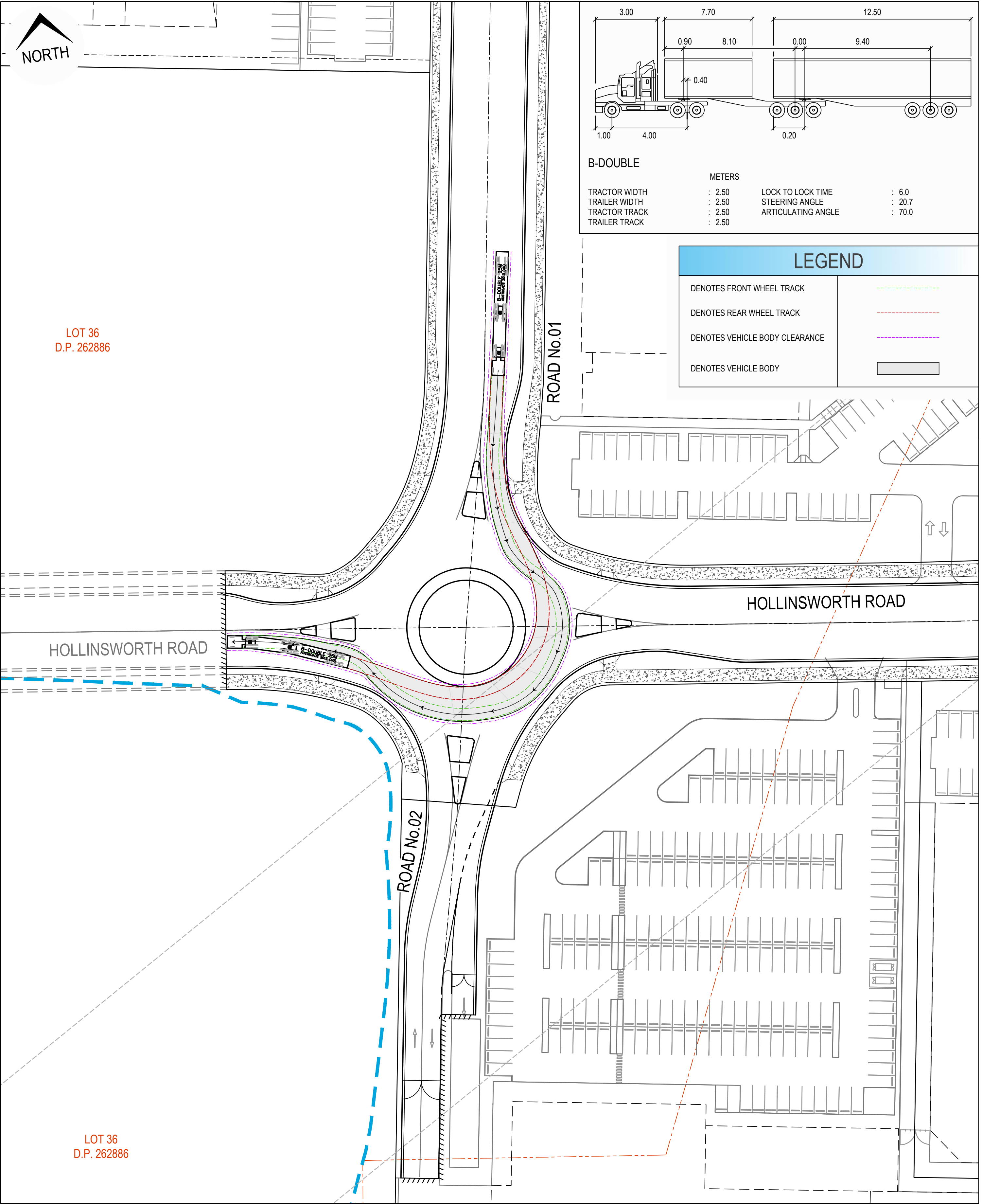
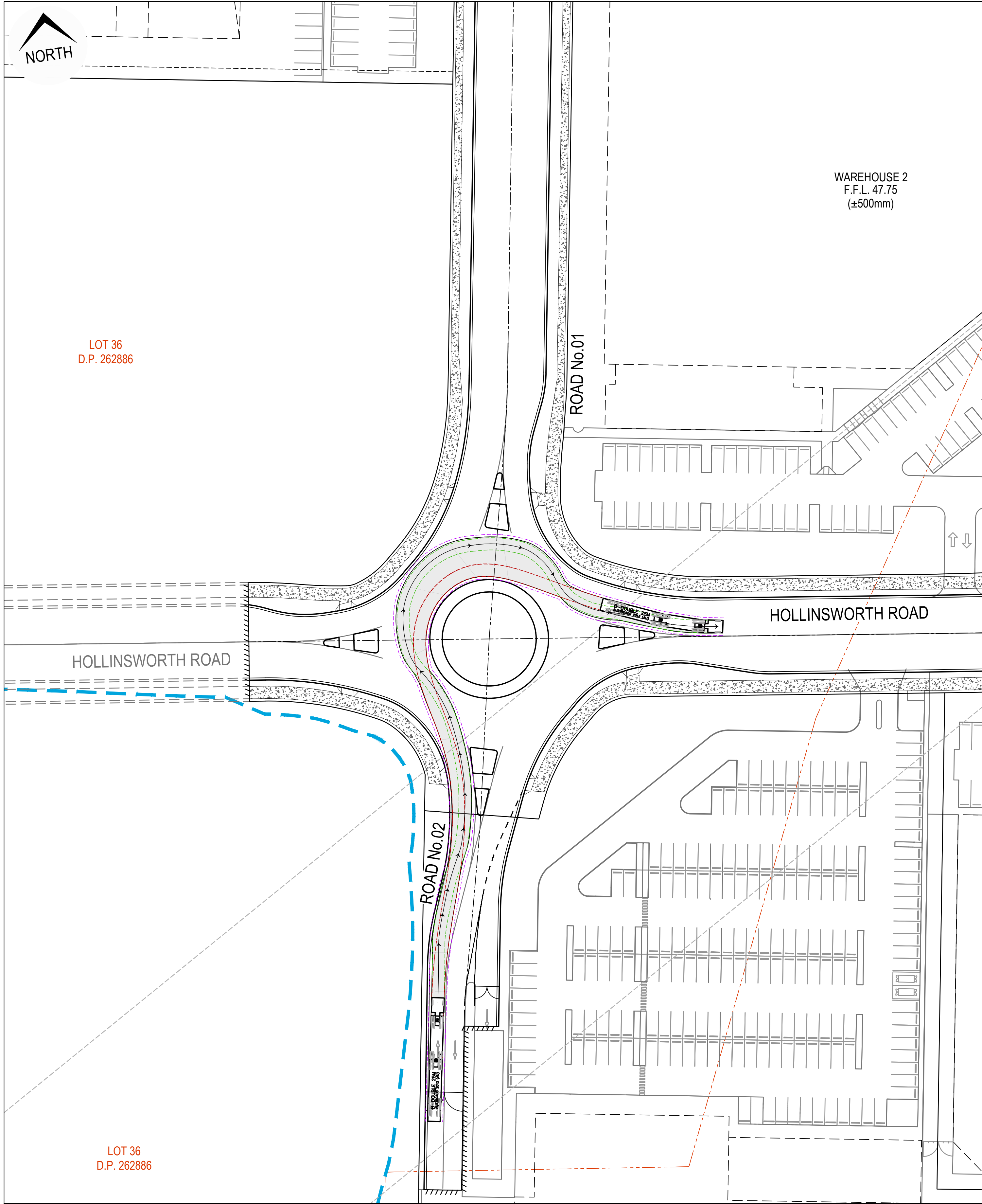
Orion Consulting

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

Project:

STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

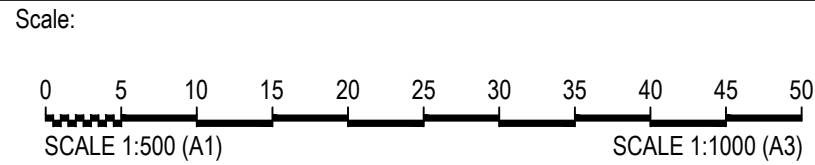
Title: ROUNDABOUT VEHICLE TURNING PATH PLAN SHEET 01 OF 03				
Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	600	A



ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

Rev	Drawn	Design	Appd.	Date	Revision Description
A	MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD



For:



By:



ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au



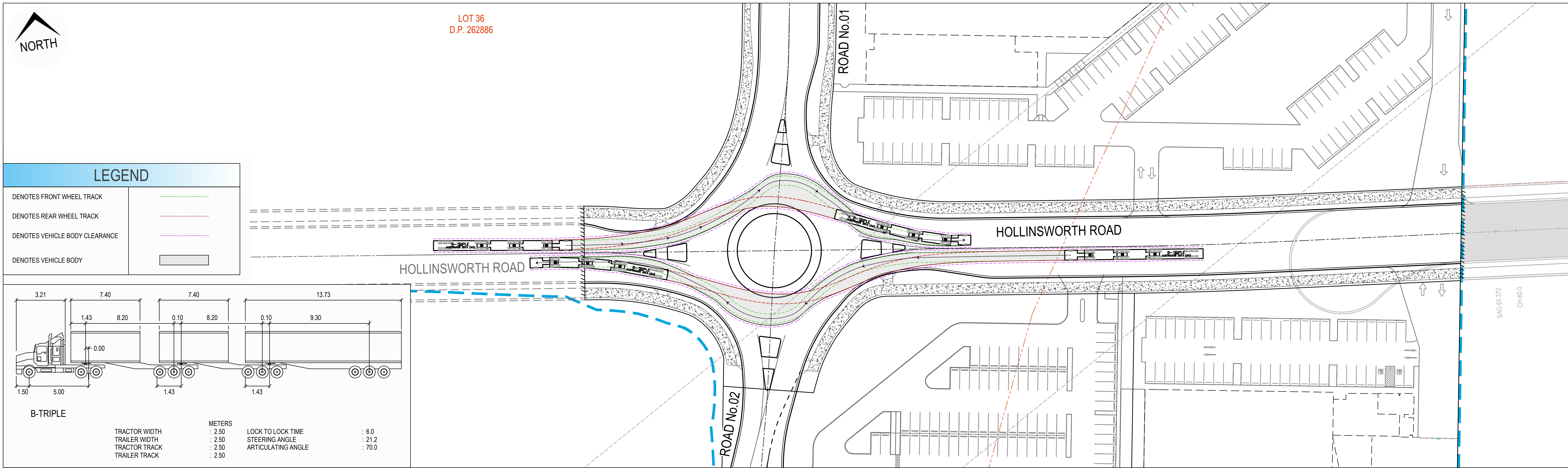
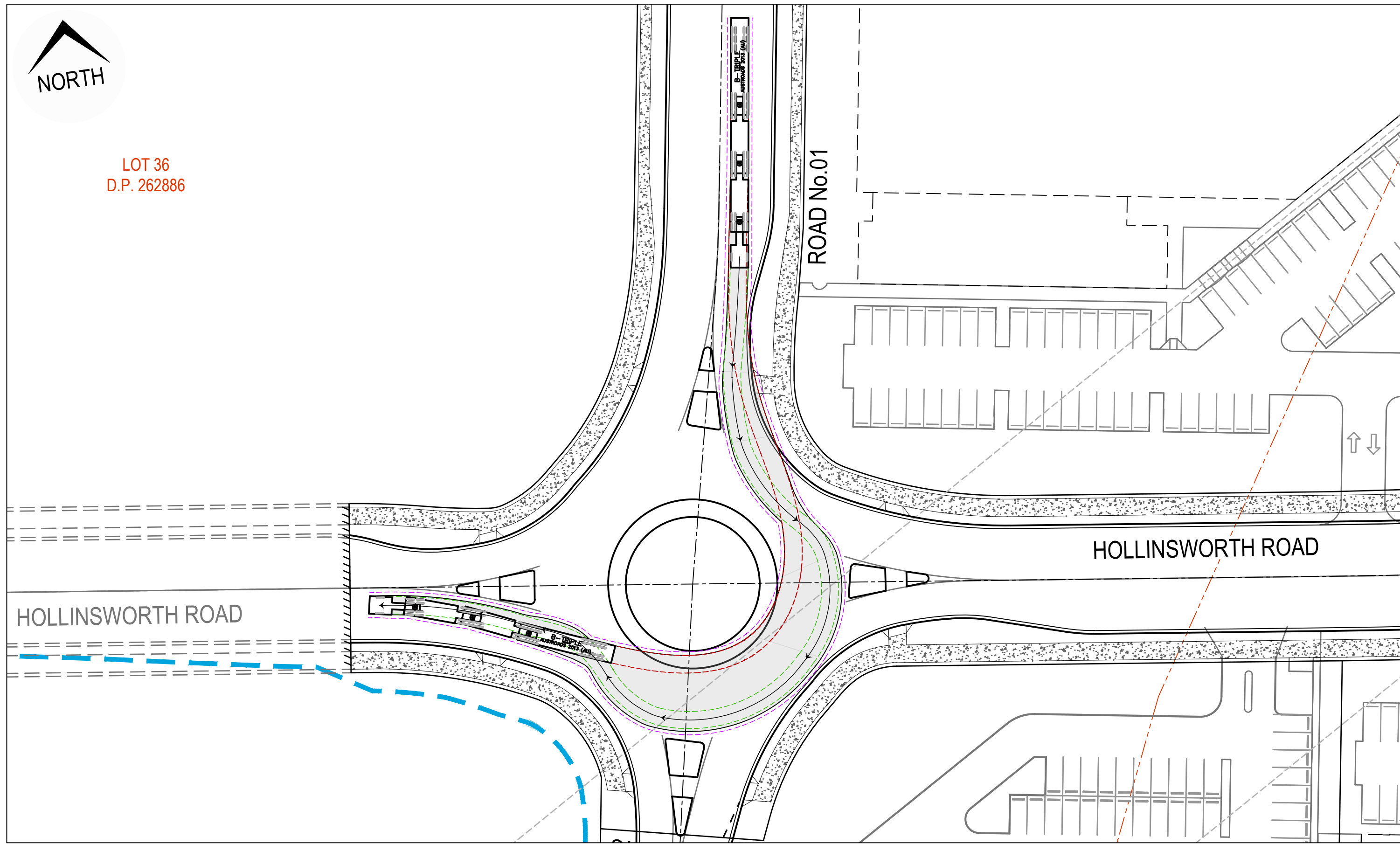
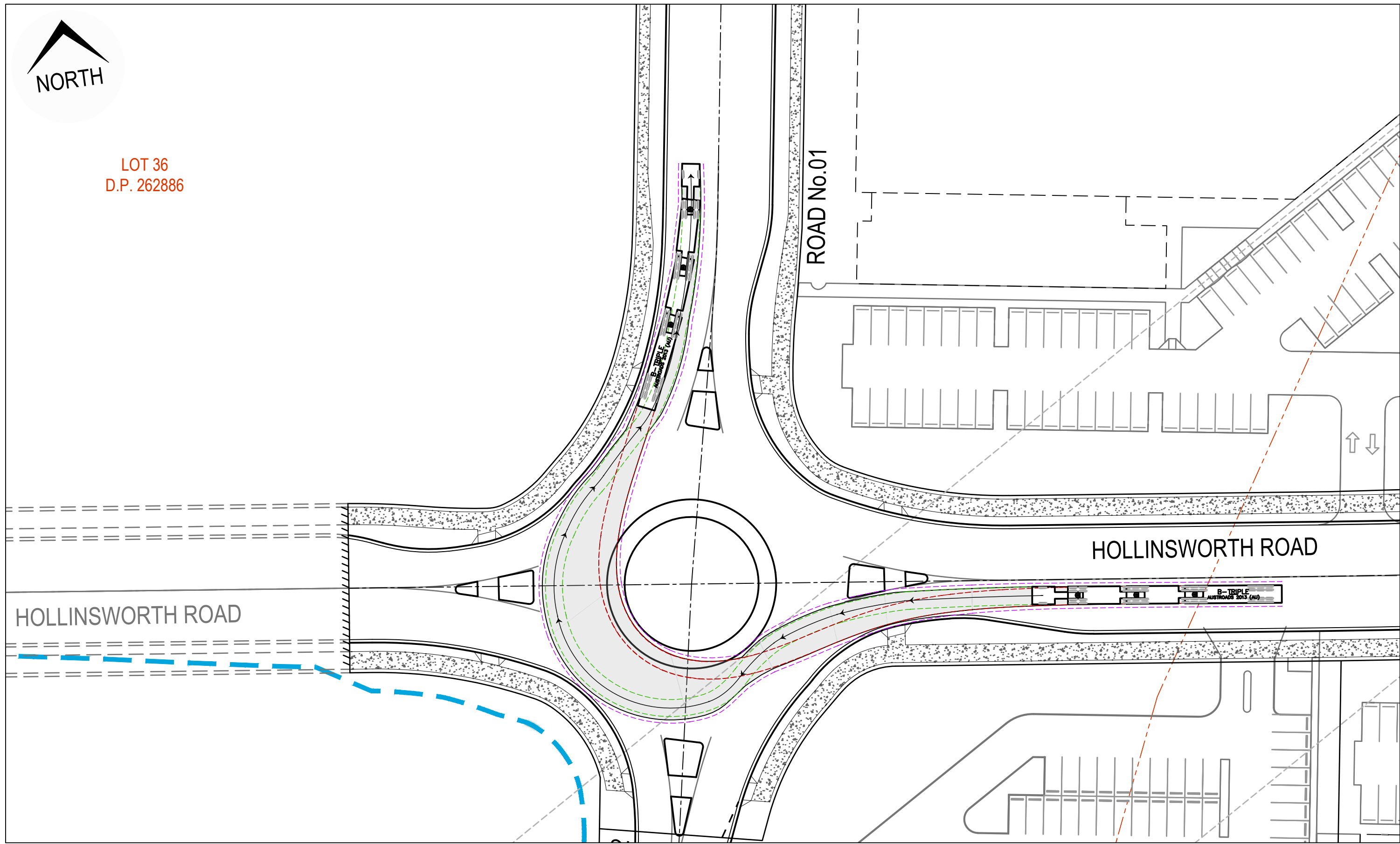
Project:

STAGE 3
SYDNEY BUSINESS PARK,
MARSDEN PARK
ROAD & DRAINAGE DESIGN

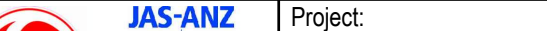
Title:

ROUNDAABOUT VEHICLE
TURNING PATH PLAN
SHEET 02 OF 03

Project No.	Set No.	Milestone	Plan	Revision
20-0127	02	DA	601	A



ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

					Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD	Scale: 	For: 	By:  ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au	 	Project: STAGE 3 SYDNEY BUSINESS PARK, MARSDEN PARK ROAD & DRAINAGE DESIGN	Title: ROUNDAABOUT VEHICLE TURNING PATH PLAN SHEET 03 OF 03	
MS	DH	MP	31/07/2020	ISSUED FOR DEVELOPMENT APPLICATION								
Drawn	Design	Appd.	Date	Revision Description								