

Prepared by:

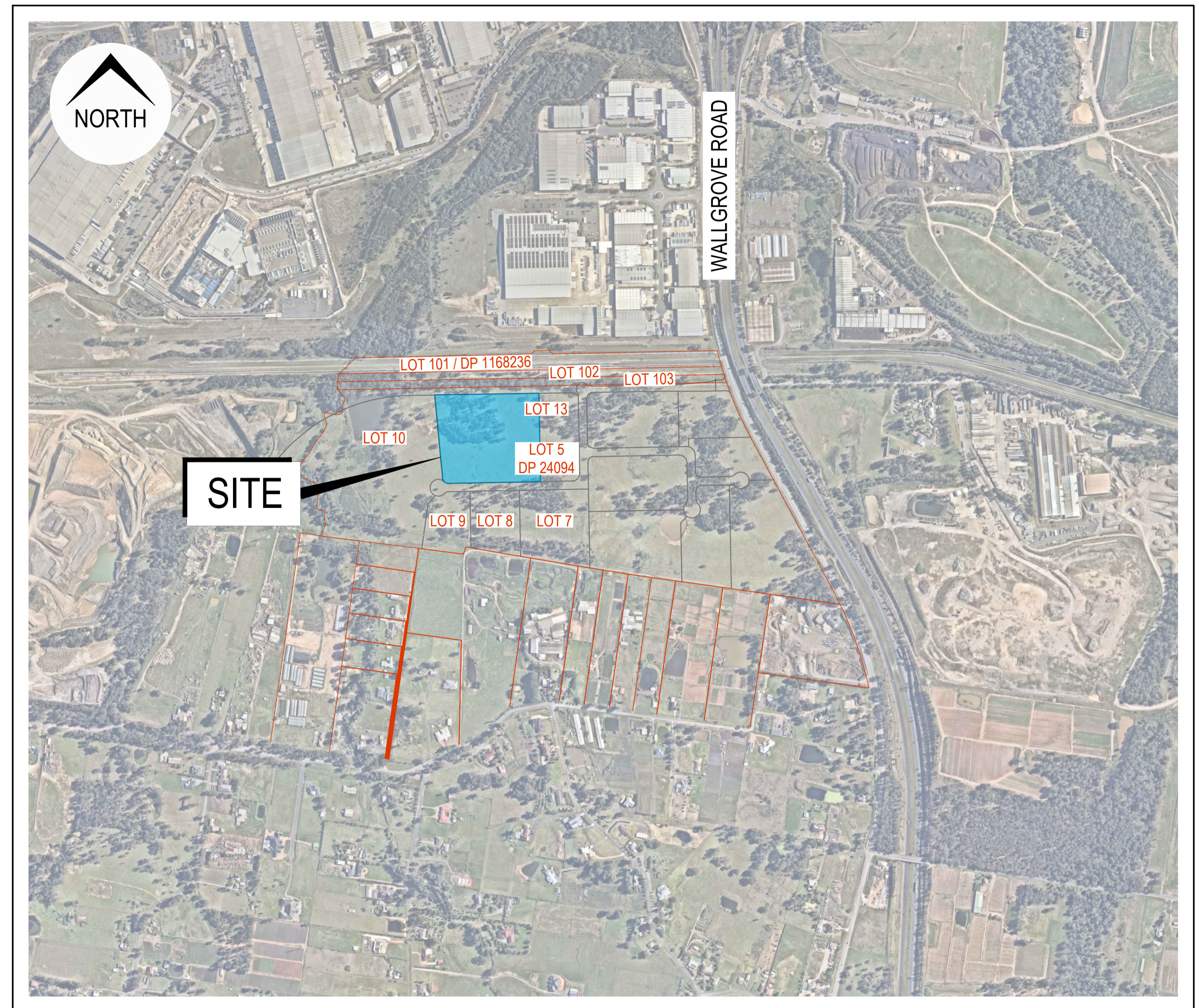
DA: _____



Prepared for:



LGA:



LOT 5, D.P. 24094

SITE / LOCATION (Image courtesy of Nearmap 23.06.2020)

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DHL HORSLEY PARK

813 WALLGROVE ROAD, EASTERN CREEK, NSW

ISSUED FOR **DEVELOPMENT APPLICATION**
NOT FOR CONSTRUCTION

GENERAL NOTES

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH FAIRFIELD CITY COUNCIL'S STANDARDS AND SPECIFICATIONS AS DIRECTED BY THE COUNCIL ENGINEER.
- LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- CO-ORDINATES ARE TO GEOCENTRIC DATUM OF AUSTRALIA (GDA2020) CO-ORDINATE SYSTEM (ZONE 56).
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. ALL LEVELS, CHAINAGES, STATIONS AND CO-ORDINATES ARE EXPRESSED IN METRES.
- THE CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORKS WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER AND LANDOWNER.
- ALL FILLING TO BE COMPACTED TO A MINIMUM 95% OF THE STANDARD MAXIMUM DRY DENSITY AS TESTED IN ACCORDANCE WITH E1.1 OF AS1289 - 2014.
- FILL MATERIAL TO BE APPROVED BY THE CONSTRUCTION ENGINEER. SURPLUS EXCAVATED MATERIAL TO BE PLACED WHERE DIRECTED BY THE ENGINEER.
- ALL NEW WORKS TO MAKE SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- MINIMUM 25mm APPROVED GRANULAR BEDDING TO BE PROVIDED UNDER ALL CONCRETE.
- ALL CONCRETE WORKS TO BE CONSTRUCTED TO GRADE N20 CONCRETE U.N.O.
- ALL DISTURBED TURFED AREAS AND BATTERS TO BE TOPSOILED, TURFED OR SPRAY GRASSED AS SHOWN ON THE DRAWINGS.
- MEASUREMENTS SHALL BE TAKEN FROM THE FIGURED DIMENSIONS AND ARE NOT TO BE SCALED FROM THE DRAWINGS.
- PROVISION FOR TRAFFIC CONTROL DURING CONSTRUCTION TO BE IN ACCORDANCE WITH AS1742.3 - 2009.
- EROSION AND SEDIMENT CONTROLS ARE TO BE IMPLEMENTED IN ACCORDANCE WITH E.P.A. REQUIREMENTS.
- EXISTING SERVICES TO BE UNDISTURBED UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO CLEAR SITE BY REMOVING ALL SURPLUS SPOIL, RUBBISH, ETC.

GENERAL DRAINAGE NOTES

- STORMWATER DESIGN CRITERIA:
1:100YR ARI MAJOR SYSTEM
1:5YR ARI MINOR SYSTEM
- ALL LOCATIONS, ORIENTATION AND LEVELS SHALL BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK. REFER DISCREPANCIES TO THE ENGINEER. DO NOT OBTAIN DIMENSIONS FROM SCALING. EXISTING SURFACE LEVELS ON THE DRAWINGS ARE INDICATIVE ONLY.
- DRAINAGE LINES ON PLANS ARE DIAGRAMMATIC ONLY AND PIPE CENTRELINES SHALL ENTER AND EXIT PITS AT THE CENTRE OF THE RESPECTIVE PIT WALLS.
- ANY PERMITS FOR DIVERSION WORKS REQUIRED DURING CONSTRUCTION SHALL BE OBTAINED PRIOR TO CONSTRUCTION WORKS BY THE CONTRACTOR FROM THE COUNCIL.
- EXISTING STORMWATER PIPES OR CULVERTS THAT ARE IDENTIFIED TO BE ABANDONED SHALL BE REMOVED WITH APPROPRIATE TREATMENT AND IN ACCORDANCE WITH COUNCIL SPECIFICATIONS
- DURING CONSTRUCTION ANY EXCAVATIONS SHALL BE SECURELY SHORED AND BENCHED TO PREVENT THE SIDES OF THE EXCAVATION FROM COLLAPSING. ALL TRENCHES SHALL BE SHORED OR BENCHED TO COMPLY WITH THE NSW CONSTRUCTION SAFETY ACT.

- ALL PIPES ARE TO BE STEEL REINFORCED SPUN CONCRETE UNLESS NOTED OTHERWISE. ALL CONCRETE PIPES SHALL HAVE HS3 TYPE INSTALLATION.
- ALL NEW LONGITUDINAL DRAINAGE TRENCHES SHALL BE BACKFILLED IN THE SIDE, OVERLAY AND BACKFILL ZONES AND SELECT MATERIAL ZONE OF PAVEMENT WITH TYPE SO MATERIAL AS SPECIFIED IN COUNCIL SPECIFICATION.
- PIPES ≤300 mm DIA. ARE NOT TO CONTAIN PVC OR TO BE B.E.P CERTIFIED uPVC PIPES IN ACCORDANCE WITH SUSTAIN ERBAS GREEN STAR DESIGN SPECIFICATION: CIVIL FOR DHL WALLGROVE, DATED 19-11-2021.
- CONCRETE PIPE CLASSES HAVE BEEN DETERMINED BASED ON TYPE HS3 SUPPORT, FINISHED SURFACE LEVEL AND TRENCH OR EMBANKMENT CONDITION INSTALLATION TO AS3725 AND SPECIFICATION UNLESS OTHERWISE NOTED.
- CONCRETE PIPES ARE TO BE RUBBER RING JOINTED SPIGOT AND SOCKET TYPE UNLESS NOTED OTHERWISE. THERMAL ENVIRONMENT CONDITION OF TABLE 3.1 OF AS/NZS 4058:2007 APPLIES. MINIMUM COVER FOR REINFORCEMENT IS 10 mm.
- MINIMUM COVER TO ALL NEW PIPES TO BE 300 mm BELOW THE UNDERSIDE OF THE SELECTED MATERIAL ZONE UNLESS STATED OTHERWISE.
- CONNECTION BETWEEN PIPES AND STRUCTURES TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL SPECIFICATION AND STANDARD DRAWINGS UNLESS NOTED OTHERWISE.
- PIPE LENGTHS PROVIDED IN DRAINAGE LONG SECTIONS ARE CALCULATED FROM PIT REFERENCE POINT TO PIT REFERENCE POINT.

SIGNAGE AND LINE MARKING

- TO ELIMINATE EXCESSIVE GLARE FROM THE SURFACE OF A SIGN IT SHOULD BE TURNED APPROXIMATELY 5° AWAY FROM THE NORMAL TO THE HEADLIGHT BEAM / LINE OF SIGHT.
- ALL SIGNAGE TO BE CLEAR OF ALL VEGETATION AND OBSTRUCTIONS.
- SIGNS TO BE INSTALLED IN ACCORDANCE WITH AS1742.
- THE LOCATION OF ALL EXISTING SIGNS TO BE CONFIRMED PRIOR TO COMMENCING WORK. ENSURE ADOPTED METHOD OF CONSTRUCTION WILL AVOID DAMAGE TO ALL SERVICES.
- ALL EXISTING LINE MARKING EFFECTED BY THE NEW WORKS AND NOT OTHERWISE CONFLICTING WITH NEW LINE MARKING IS TO BE REINSTATED.

SURVEY SET OUT INFORMATION NOTES:

- ALL SITE SET OUT AND CONTROL POINTS ARE TO BE CERTIFIED BY A REGISTERED SURVEYOR.
- THE INFORMATION DETAILED ON THE CERTIFIED CONSTRUCTION CERTIFICATE PLANS TAKES PRECEDENCE OVER ALL ELECTRONIC INFORMATION PROVIDED. THE ORDER OF PRIORITY FOR USE OF ALL INFORMATION PROVIDED IS AS FOLLOWS:
a. CERTIFIED CONSTRUCTION CERTIFICATE DRAWINGS
b. 2D DRAFTING BASE (ELECTRONIC FILE)
c. 3D DTM (ELECTRONIC FILE)
- ANY DISCREPANCY BETWEEN ANY OF THE INFORMATION CONTAINED WITHIN THESE FILES IS TO BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT PRIOR TO CONSTRUCTION WHO WILL SEEK CLARIFICATION AND ISSUE INSTRUCTIONS ON THE APPROPRIATE COURSE OF ACTION.
- ORION CONSULTING ACCEPTS NO RESPONSIBILITY FOR ANY SURVEY OR BOUNDARY INFORMATION. ALL SURVEY AND BOUNDARY INFORMATION SHOULD BE CONFIRMED BY A REGISTERED SURVEYOR PRIOR TO CONSTRUCTION.

EARTHWORKS NOTES

REFER GEOTECH REPORT PREPARED BY DOUGLAS PARTNERS, REF No. 99735.00, DATED APRIL 2021

- EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
- COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 95% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS.1289.5.1.1. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. WHERE IT IS PROPOSED TO USE TEST METHOD AS1289.5.8.1 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.
- THE SUITABLE QUALIFIED GEOTECHNICAL ENGINEER, SHALL HAVE A LEVEL 2 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS', AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.
- IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL.
- ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
- PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL DEPTH ON FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 14 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
- THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PRODUCED BY LANDCOM.
- FOOTWAY AREA TO BE FULLY TURFED WITH COUCH GRASS, AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED DURING THE CONSTRUCTION MAINTENANCE PERIOD, IN ACCORDANCE WITH CONDITION.
- THE CONTRACTOR SHALL PROVIDE ALL LEVEL 1 TESTING INCLUDING SITE CLASS TO AS2970 FOR ALL LOTS. CLASS 'P' NOT ACCEPTABLE.

LEGEND			
	EXISTING	PROPOSED	FUTURE
UTILITY - ELECTRICITY			
GAS			
SEWER			
WATER			
TELECOMS			
NBN			
OPTIC FIBRE			
CONTOUR LINE & LABEL			
LOT NUMBER & BOUNDARY			
APPROXIMATE LIMIT OF WORKS			
BUILDING / ENVELOPE			
ROAD, NUMBER, CONTROL LINE, CHAINAGE & CHAINAGE MARK			
COUNCIL STANDARD KERB & GUTTER			
COUNCIL STANDARD DISH CROSSING			
EDGE OF BITUMEN			
COUNCIL STANDARD CONCRETE FOOTPATH & KERB RAMP			
STORMWATER DRAINAGE PIPE AND STRUCTURE			
STORMWATER uPVC DRAINAGE PIPE AND STUB			
STORMWATER RCP DRAINAGE PIPE AND STUB			
TEMPORARY STORMWATER DRAINAGE PIPE			
EASEMENT (REFER LEGEND)			
SUBSOIL DRAIN			
DIVERSION SWALE			
RETAINING WALL			
BATTER			
TREE - TO BE RETAINED OR TO BE REMOVED			

SURVEY PROVIDED BY ORION CONSULTING: (DATED 27/10/2021)
COORDINATES: GDA2020 DATUM: A.H.D.
REFERENCE No: 19-0108

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

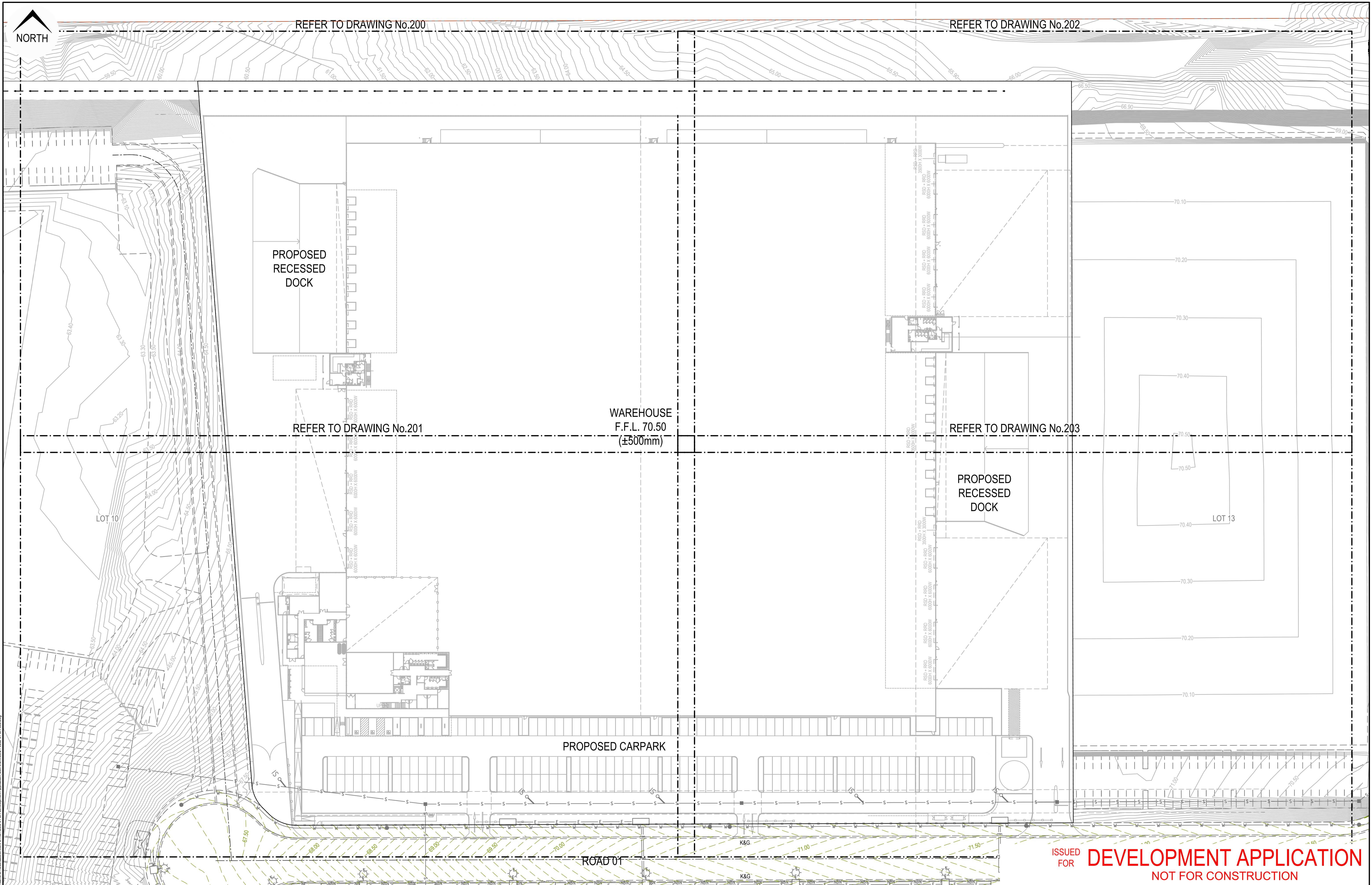
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Project No.	Set No.	Milestone	Plan	Revision												
21-0262	01	DA	001	B												

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 Date: 27/10/2021 11:02:22
 User: orion



REFER TO DRAWING No.200

REFER TO DRAWING No.202



PROPOSED RECESSED DOCK

REFER TO DRAWING No.201

WAREHOUSE
F.F.L. 70.50
(±500mm)

REFER TO DRAWING No.203

PROPOSED RECESSED DOCK

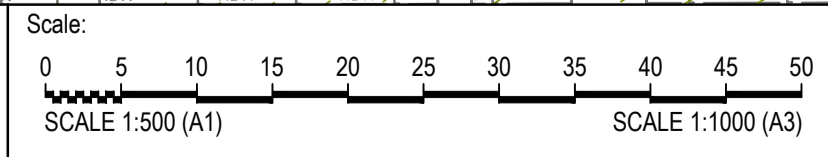
PROPOSED CARPARK

ROAD 01

ISSUED FOR **DEVELOPMENT APPLICATION**
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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
A	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION

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For: JAS-ANZ
SUSTAINABLE
CONFIDENTIAL
www.jas-anz.com.au

Project: DHL HORSLEY PARK
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	002	A

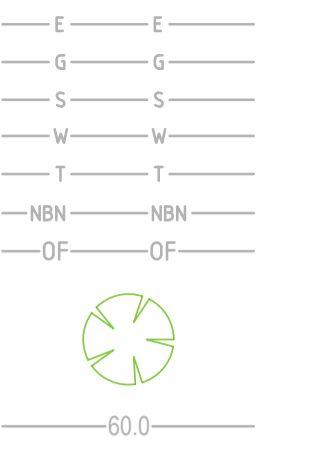
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LEGEND

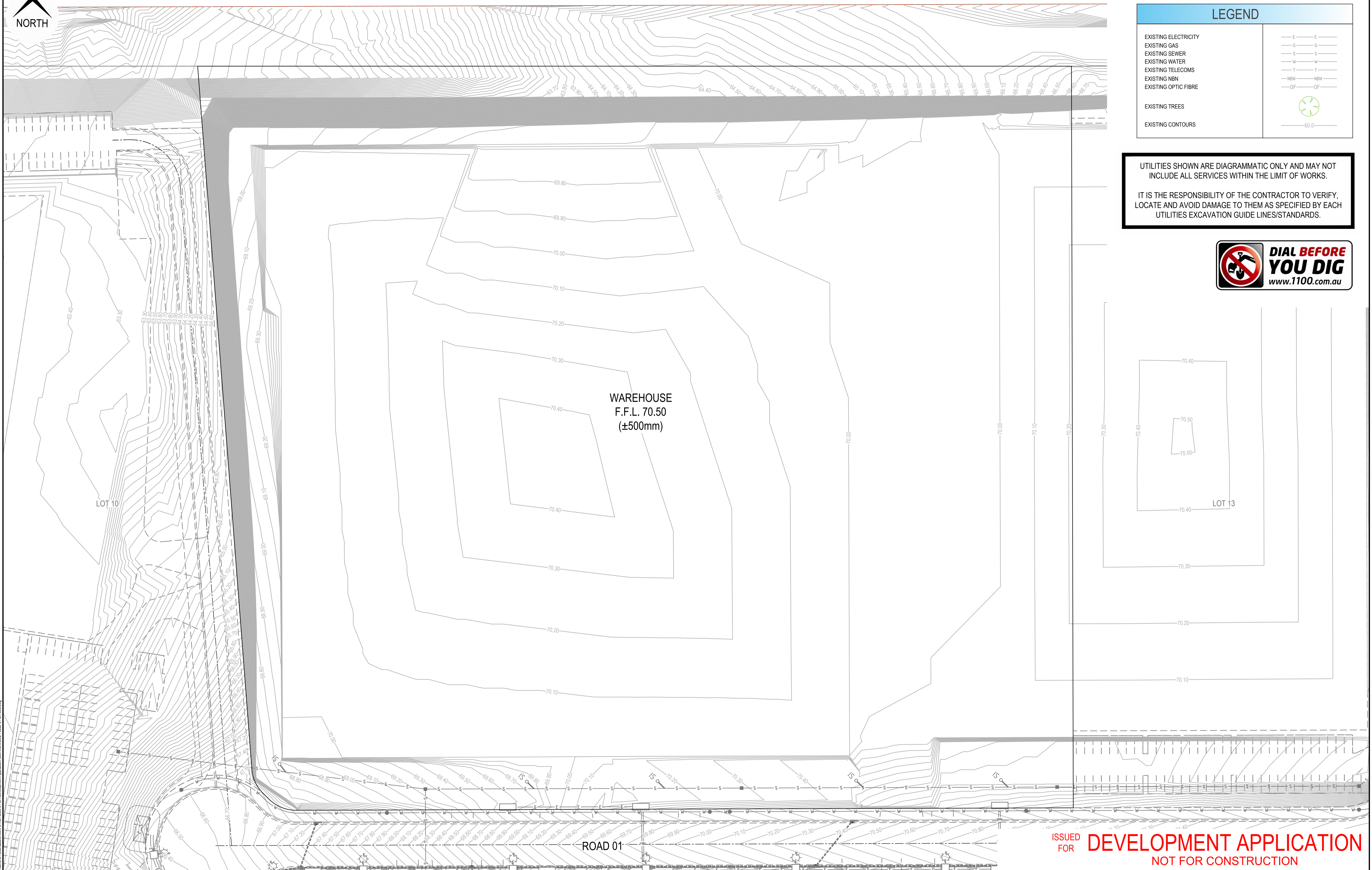
- EXISTING ELECTRICITY
- EXISTING GAS
- EXISTING SEWER
- EXISTING WATER
- EXISTING TELECOMS
- EXISTING NBN
- EXISTING OPTIC FIBRE

- EXISTING TREES
- EXISTING CONTOURS



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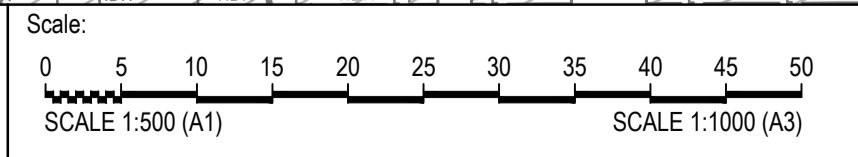
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A	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION

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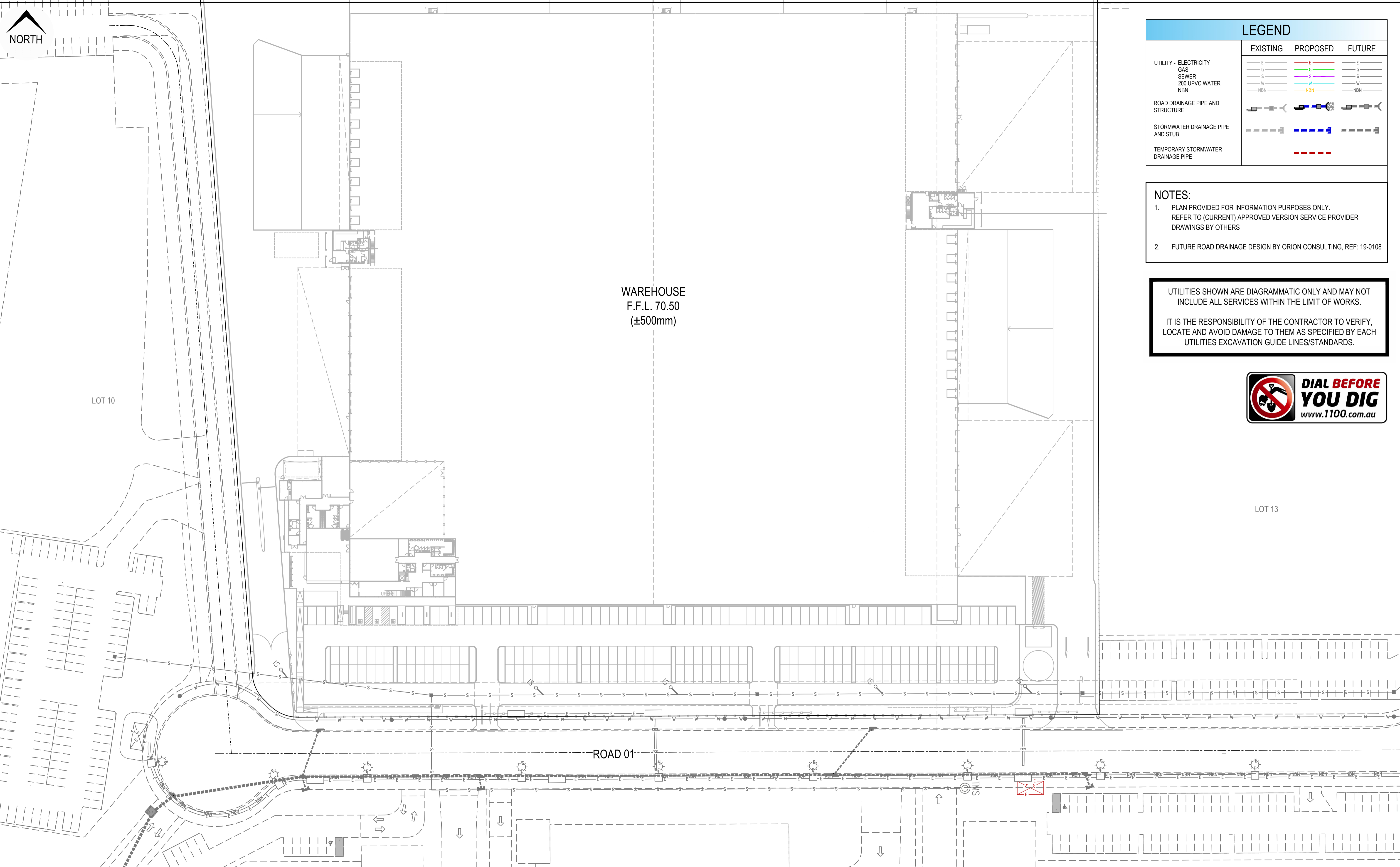


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Project: **DHL HORSLEY PARK**
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

EXISTING SURVEY PLAN				
Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	003	A



LEGEND

	EXISTING	PROPOSED	FUTURE
UTILITY - ELECTRICITY	E	E	E
GAS	G	G	G
SEWER	S	S	S
200 UPVC WATER	W	W	W
NBN	NBN	NBN	NBN
ROAD DRAINAGE PIPE AND STRUCTURE			
STORMWATER DRAINAGE PIPE AND STUB			
TEMPORARY STORMWATER DRAINAGE PIPE			

- NOTES:**
1. PLAN PROVIDED FOR INFORMATION PURPOSES ONLY. REFER TO (CURRENT) APPROVED VERSION SERVICE PROVIDER DRAWINGS BY OTHERS
 2. FUTURE ROAD DRAINAGE DESIGN BY ORION CONSULTING, REF: 19-0108

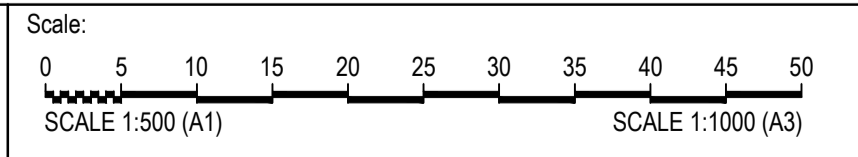
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A	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION

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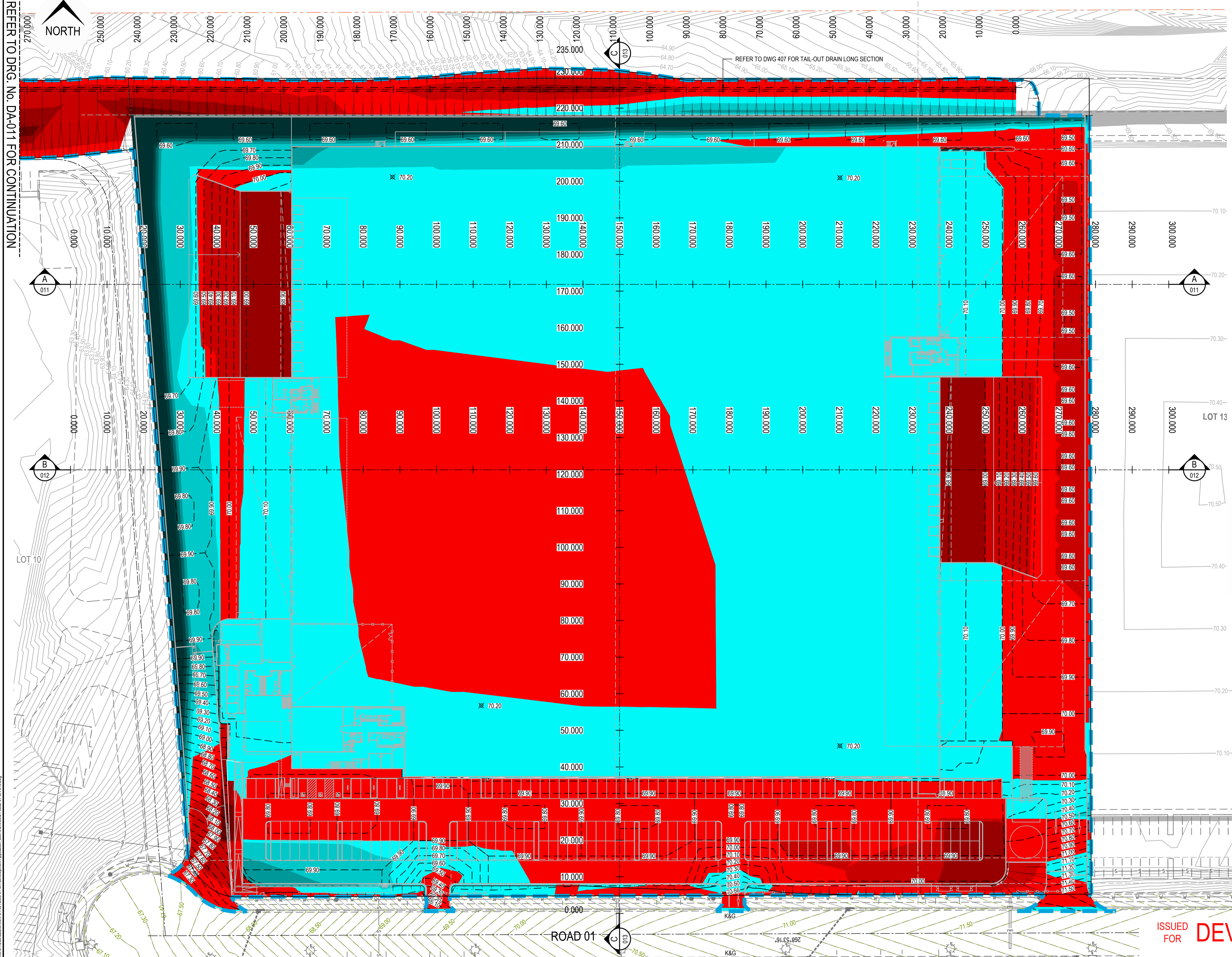
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Project: **DHL HORSLEY PARK**
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

Title: **COMBINED SERVICES PLAN**

Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	004	A

REFER TO DRG. No. DA-011 FOR CONTINUATION



LEGEND	
APPROXIMATE EXTENT OF FILL	0.0 - 0.5m
	0.5 - 1.0m
	1.0 - 1.5m
	1.5 - 2.0m
	2.0 - 2.5m
	> 2.5m
APPROXIMATE EXTENT OF CUT	0.0 - 0.5m
	0.5 - 1.0m
	1.0 - 1.5m
	1.5 - 2.0m
	2.0 - 2.5m
	> 2.5m

VOLUMES	
CUT -	10,900m ³
FILL -	13,670m ³
BALANCE - (IMPORT)	2,770m ³

NOTE:

- BULK EARTHWORKS QUANTITIES MEASURED AS SOLID VOLUMES.
- NO BULKING FACTOR HAS BEEN APPLIED
- EARTHWORKS QUANTITIES ARE BASED ON ASSUMED PAD, CARPARK AND HARDSTAND PAVEMENT DEPTH OF 300mm
- NO ALLOWANCE MADE FOR OSD TANK, RAINWATER TANKS, FOOTINGS, OR SERVICE TRENCHING
- NO ALLOWANCE FOR BACKFILLING BEHIND RETAINING WALLS
- NO ALLOWANCE FOR SOIL REPLACEMENT FOR TAIL-OUT DRAIN

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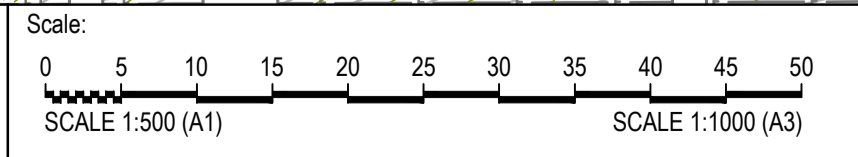
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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION
A	DL	DL	MM	MM	27-01-22	50% DA PROGRESS ISSUE

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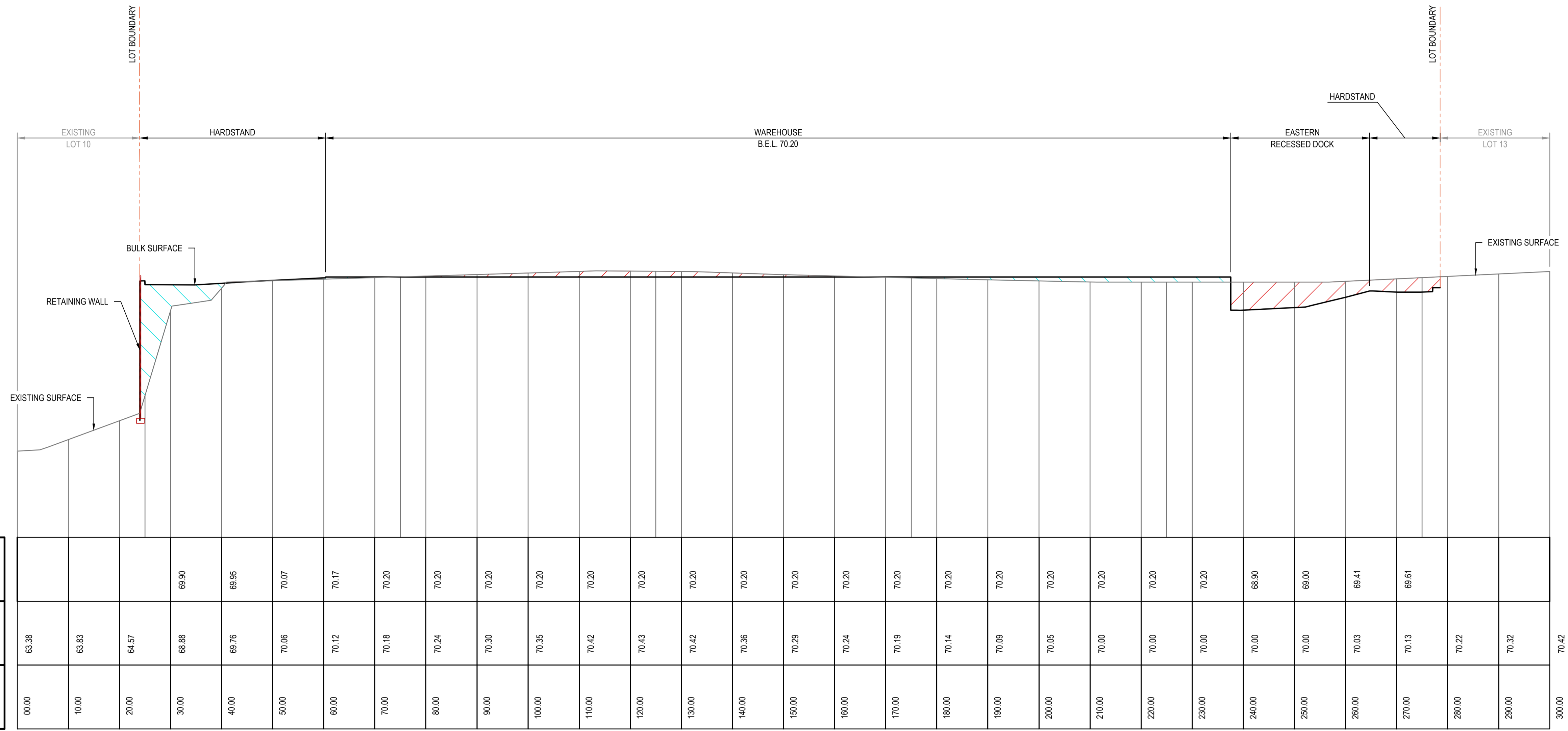


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Project: **DHL HORSLEY PARK**
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	010	B



DATUM R.L. 60.00

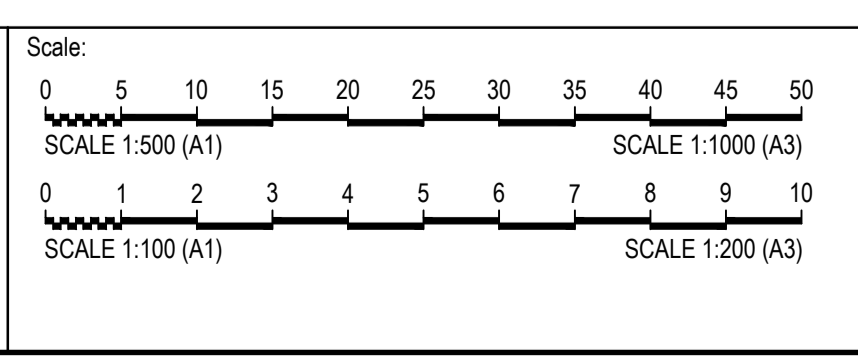
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BULK LEVEL				69.90	69.95	70.07	70.17	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20	70.20
EXISTING LEVEL	63.38	63.83	64.57	66.88	69.76	70.06	70.12	70.18	70.24	70.30	70.35	70.42	70.43	70.42	70.36	70.29	70.24	70.19	70.14	70.09	70.05	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.03	70.13	70.22	70.32
CHAINAGE	00.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.00	180.00	190.00	200.00	210.00	220.00	230.00	240.00	250.00	260.00	270.00	280.00	290.00	300.00	

BULK SECTION B
 SCALE 1:500 (H)
 SCALE 1:100 (V)

ISSUED FOR **DEVELOPMENT APPLICATION**
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A	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION

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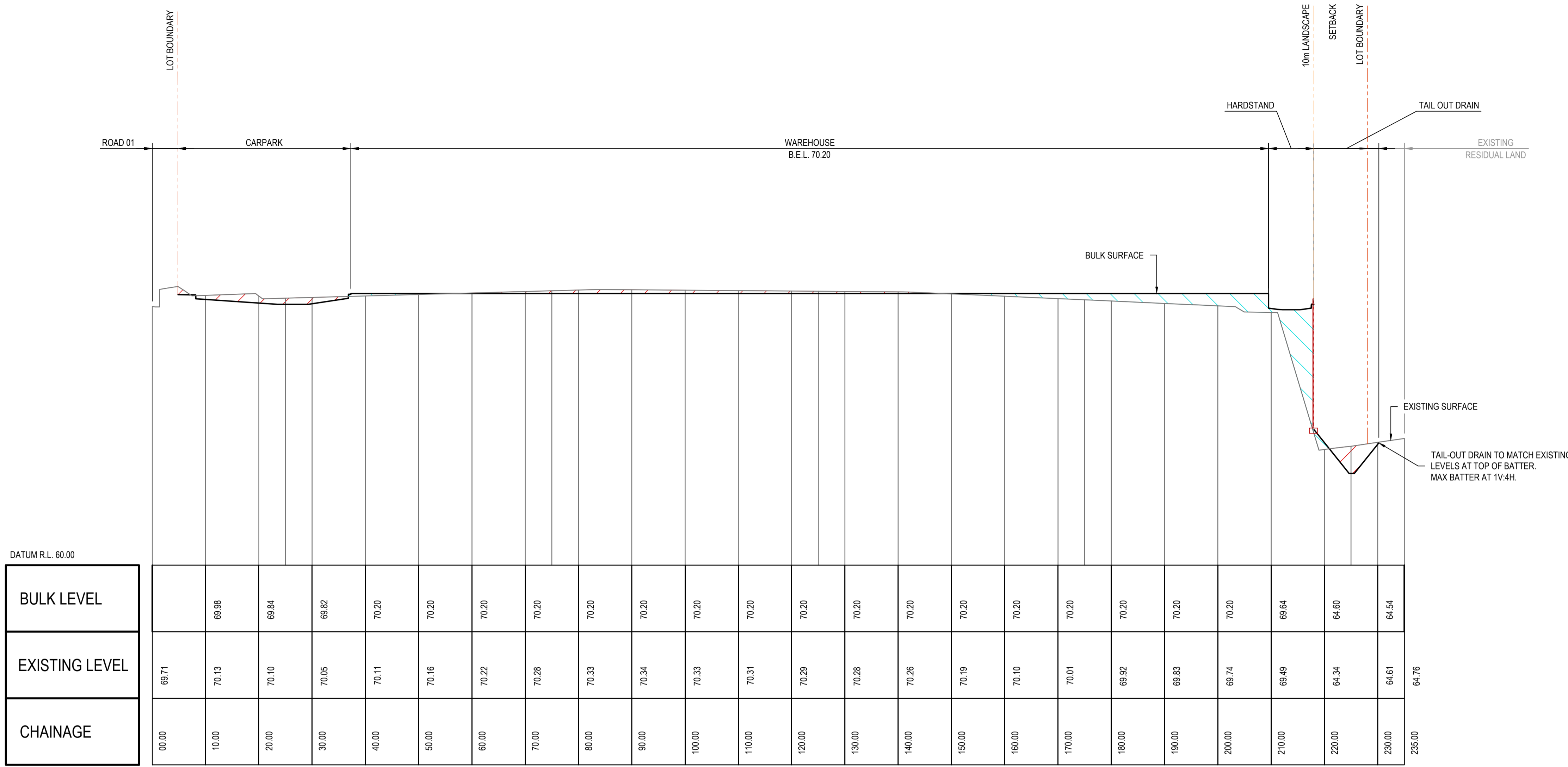


By: **Orion Consulting**
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Project: **DHL HORSLEY PARK**
 813 WALLGROVE ROAD,
 EASTERN CREEK, NSW

Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	012	A

Title: **BULK EARTHWORKS SITE SECTIONS**
 SHEET 02 OF 03

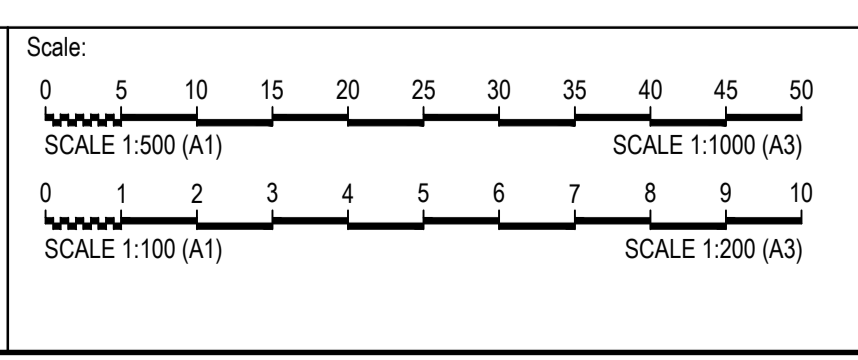


BULK SECTION C
 SCALE 1:500 (H)
 SCALE 1:100 (V)

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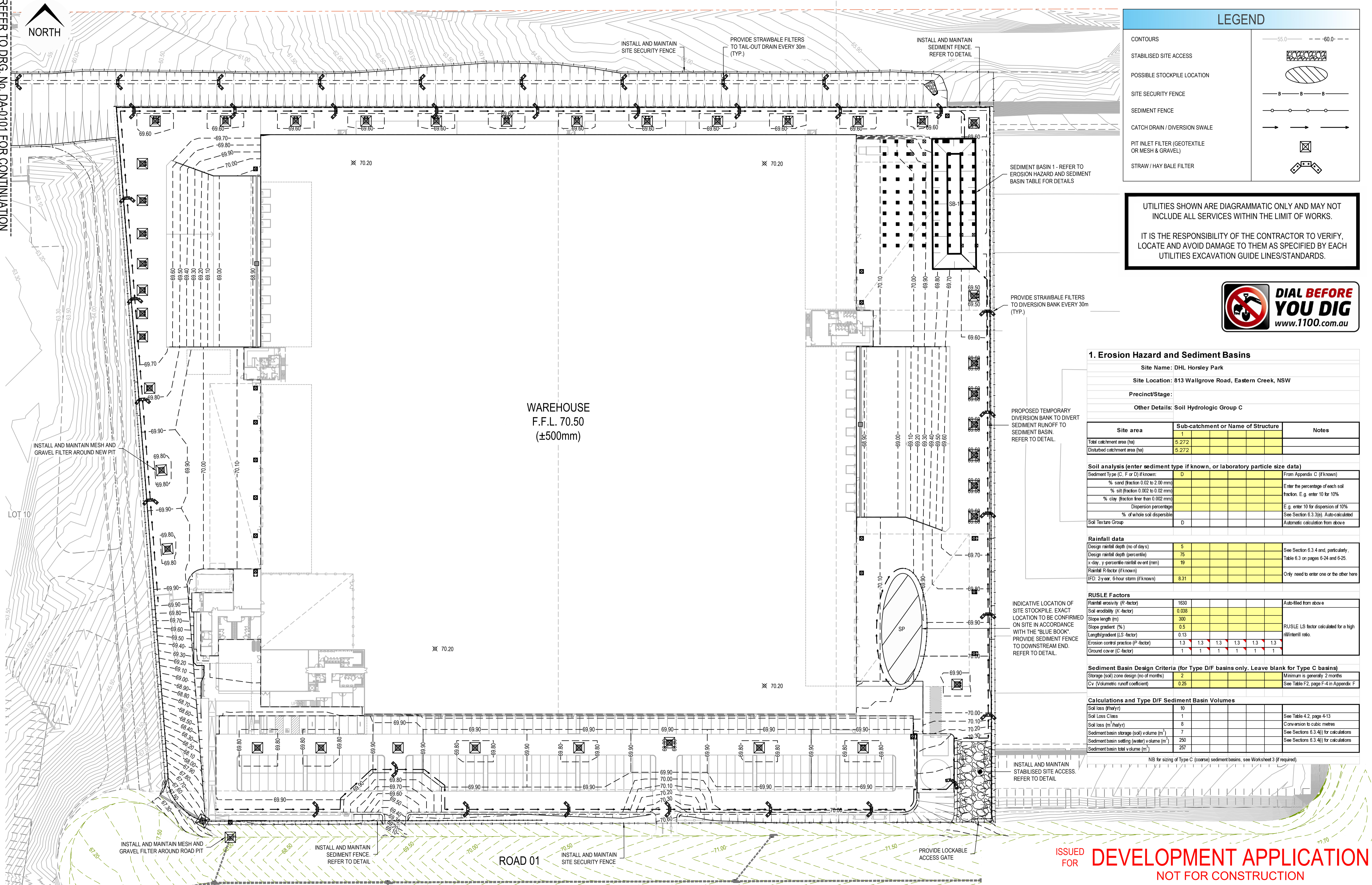
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Project: **DHL HORSLEY PARK**
 813 WALLGROVE ROAD,
 EASTERN CREEK, NSW

Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	013	A

Postal Address: 30 March 2022 2:57:46 PM File Name: C:\GIS\salut\ORION\SYNO\DESIGN\Development\Application_20170305\21-0262-01-DA-013.dwg

REFER TO DRG. No DA-0101 FOR CONTINUATION



LEGEND	
CONTOURS	--- 55.0 --- 60.0 ---
STABILISED SITE ACCESS	
POSSIBLE STOCKPILE LOCATION	
SITE SECURITY FENCE	— B — B — B —
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: DHL Horsley Park		
Site Location: 813 Wallgrove Road, Eastern Creek, NSW		
Precinct/Stage:		
Other Details: Soil Hydrologic Group C		

Site area	Sub-catchment or Name of Structure	Notes
Total catchment area (ha)	5.272	
Disturbed catchment area (ha)	5.272	

Soil analysis (enter sediment type if known, or laboratory particle size data)			
Sediment Type (C, F or D) (if known)	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		Automatic calculation from above

Rainfall data			
Design rainfall depth (no of days)	5		See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25.
Design rainfall depth (percentile)	75		
x-day, y-percentile rainfall event (mm)	19		
Rainfall R-factor (if known)			Only need to enter one or the other here
IFD: 2-year, 6-hour storm (if known)	8.31		

RUSLE Factors			
Rainfall erosivity (R-factor)	1630		Auto-filled from above
Soil erodibility (K-factor)	0.038		
Slope length (m)	300		
Slope gradient (%)	0.5		RUSLE LS factor calculated for a high millimeter ratio.
Length/gradient (LS-factor)	0.13		
Erosion control practice (P-factor)	1.3	1.3	1.3
Ground cover (C-factor)	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		Minimum is generally 2 months
Cv (Volumetric runoff coefficient)	0.25		See Table F2, page F-4 in Appendix F

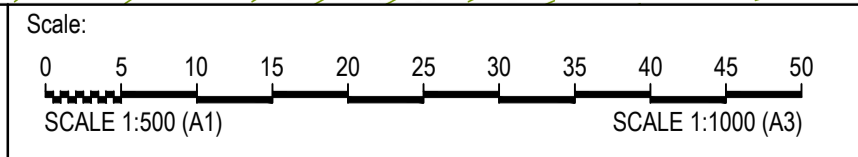
Calculations and Type D/F Sediment Basin Volumes			
Soil loss (t/ha/yr)	10		
Soil Loss Class	1		See Table 4.2, page 4-13
Soil loss (m ³ /ha/yr)	8		Conversion to cubic metres
Sediment basin storage (soil) volume (m ³)	70.20		See Sections 6.3.4(i) for calculations
Sediment basin settling (water) volume (m ³)	250		See Sections 6.3.4(j) for calculations
Sediment basin total volume (m ³)	257		

NB for sizing of Type C (coarse) sediment basins, see Worksheet 3 (if required)

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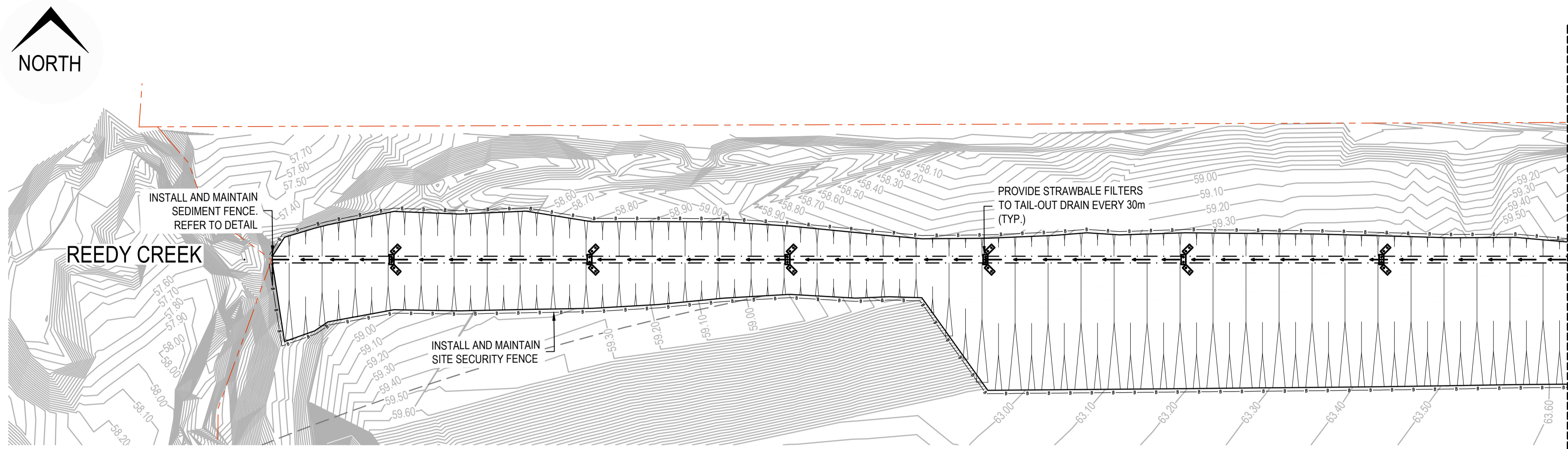


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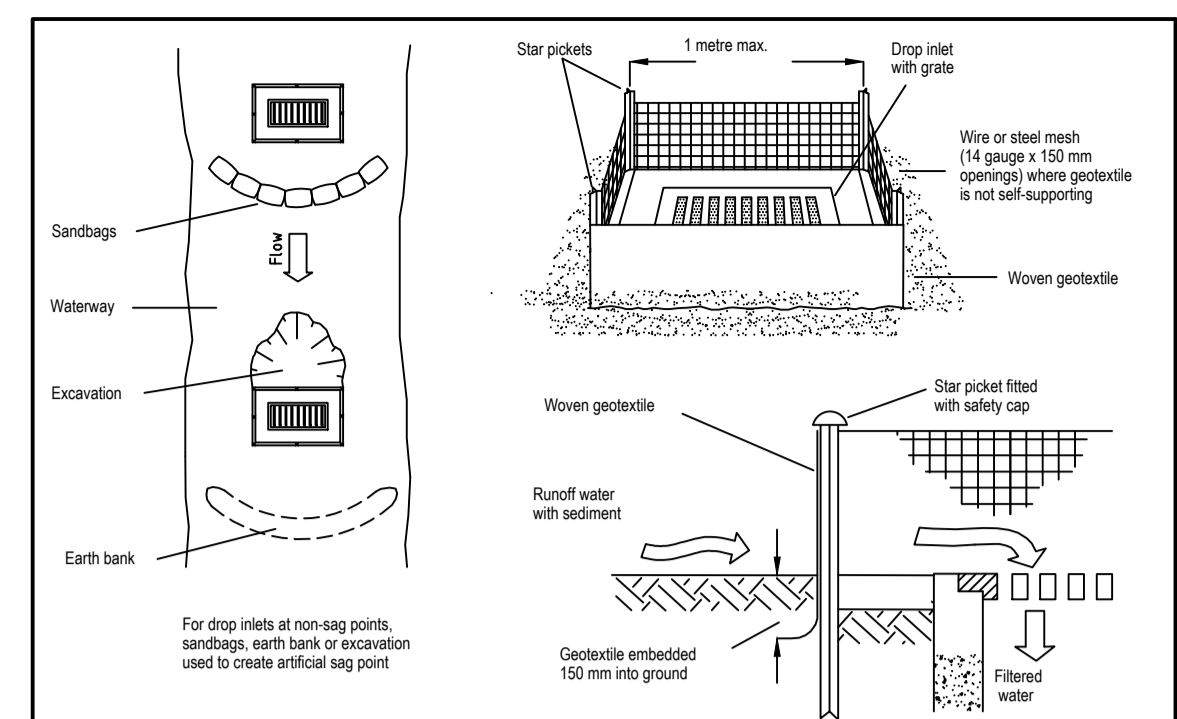
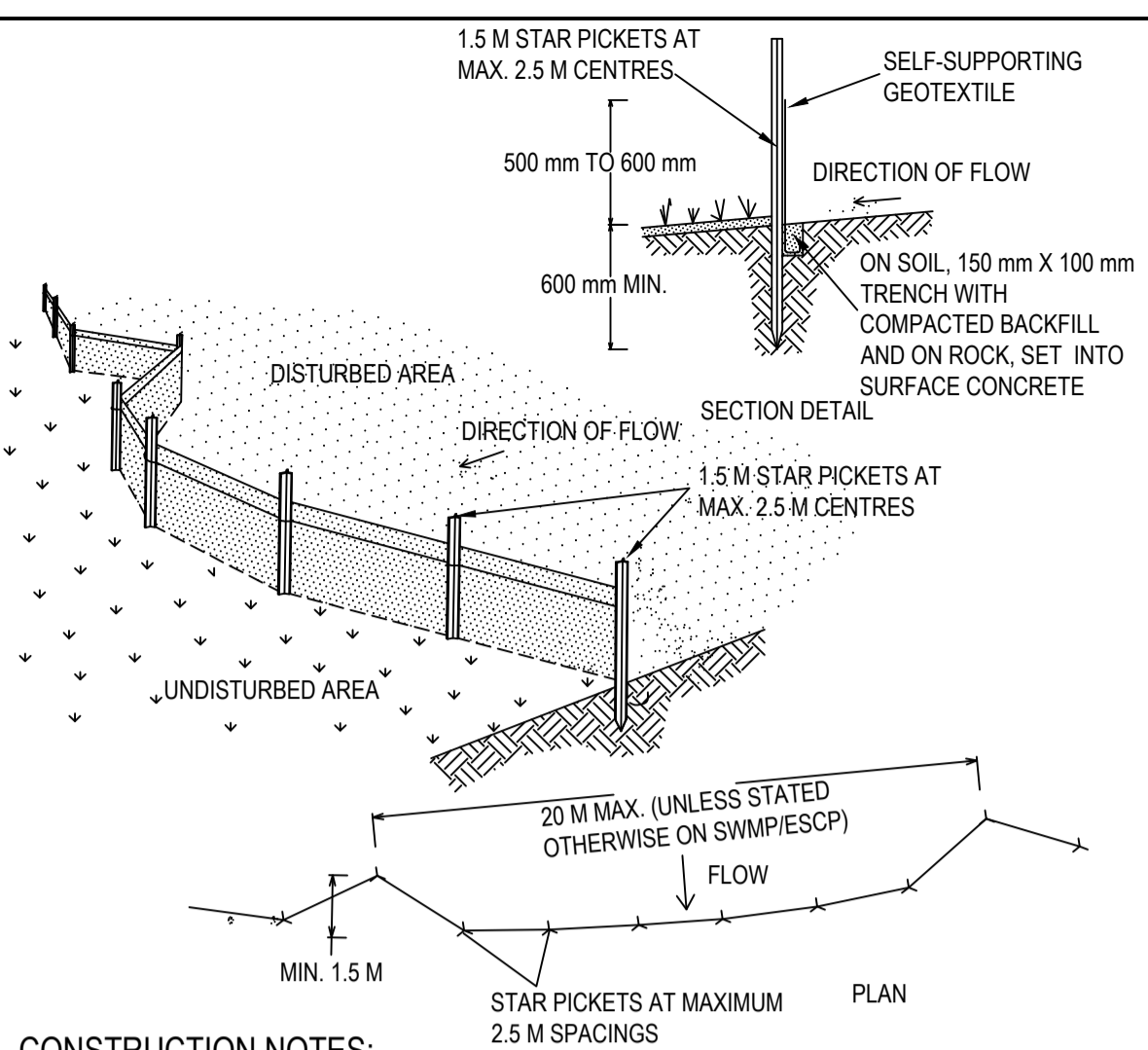
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.au

Project: **DHL HORSLEY PARK**
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

Title: SEDIMENT & EROSION CONTROL PLAN				
Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	100	A



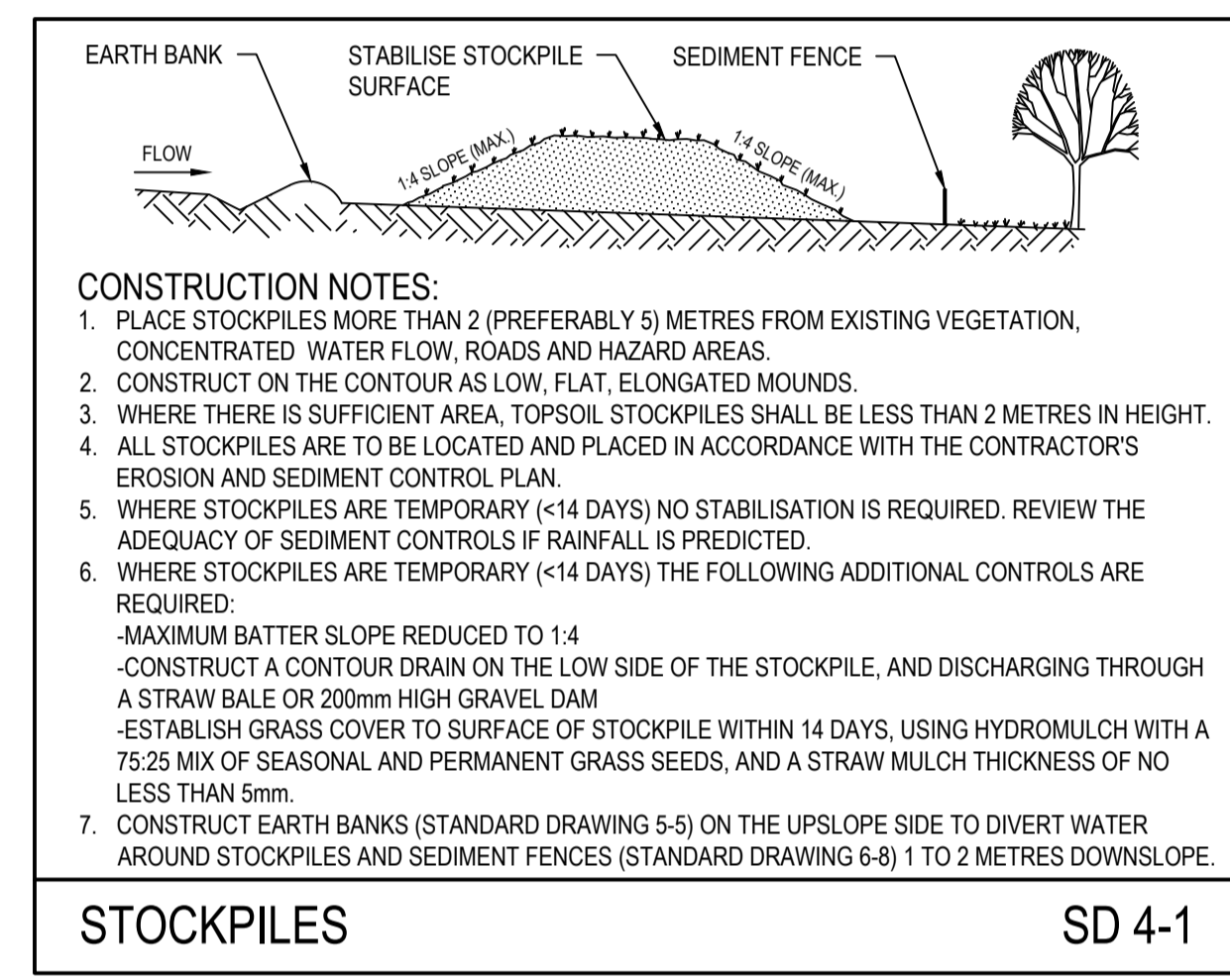
REFER TO DRG. No. DA-0100 FOR CONTINUATION



Construction Notes

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-8 for installation procedures for geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

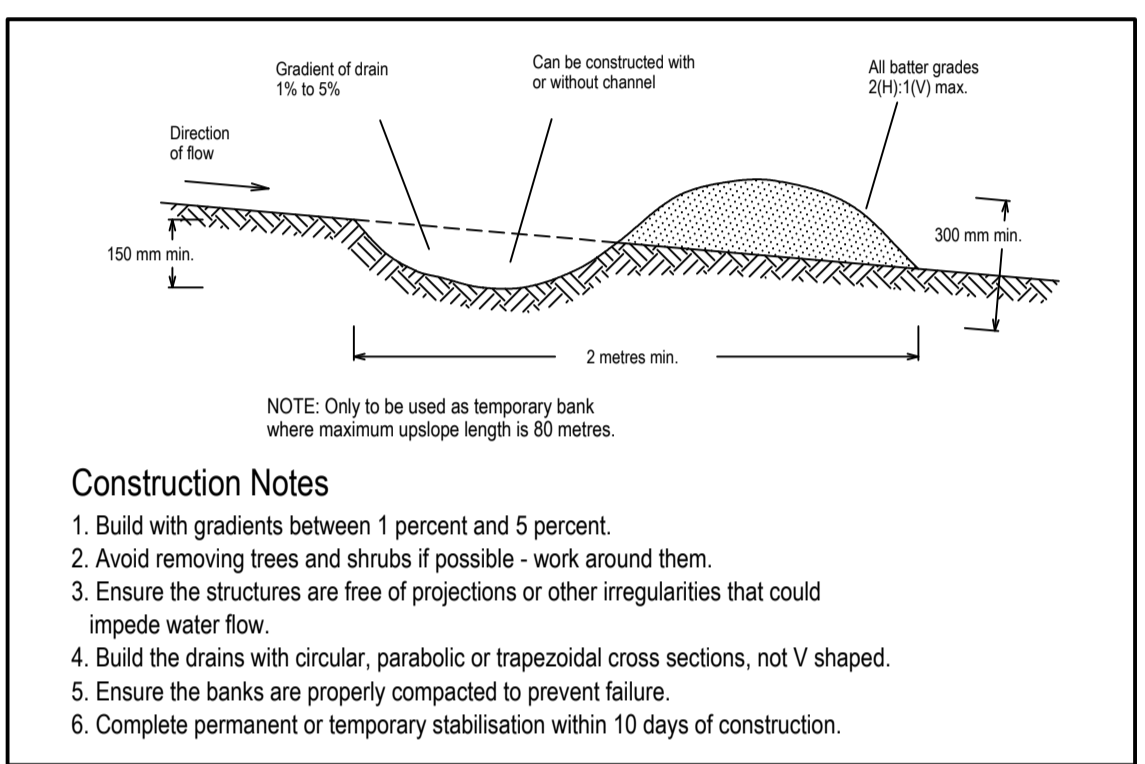
GEOTEXTILE INLET FILTER SD 6-12



CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. ALL STOCKPILES ARE TO BE LOCATED AND PLACED IN ACCORDANCE WITH THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN.
5. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) NO STABILISATION IS REQUIRED. REVIEW THE ADEQUACY OF SEDIMENT CONTROLS IF RAINFALL IS PREDICTED.
6. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) THE FOLLOWING ADDITIONAL CONTROLS ARE REQUIRED:
 - MAXIMUM BATTER SLOPE REDUCED TO 1:4
 - CONSTRUCT A CONTOUR DRAIN ON THE LOW SIDE OF THE STOCKPILE, AND DISCHARGING THROUGH A STRAW BALE OR 200mm HIGH GRAVEL DAM
 - ESTABLISH GRASS COVER TO SURFACE OF STOCKPILE WITHIN 14 DAYS, USING HYDROMULCH WITH A 75:25 MIX OF SEASONAL AND PERMANENT GRASS SEEDS, AND A STRAW MULCH THICKNESS OF NO LESS THAN 5mm.
7. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

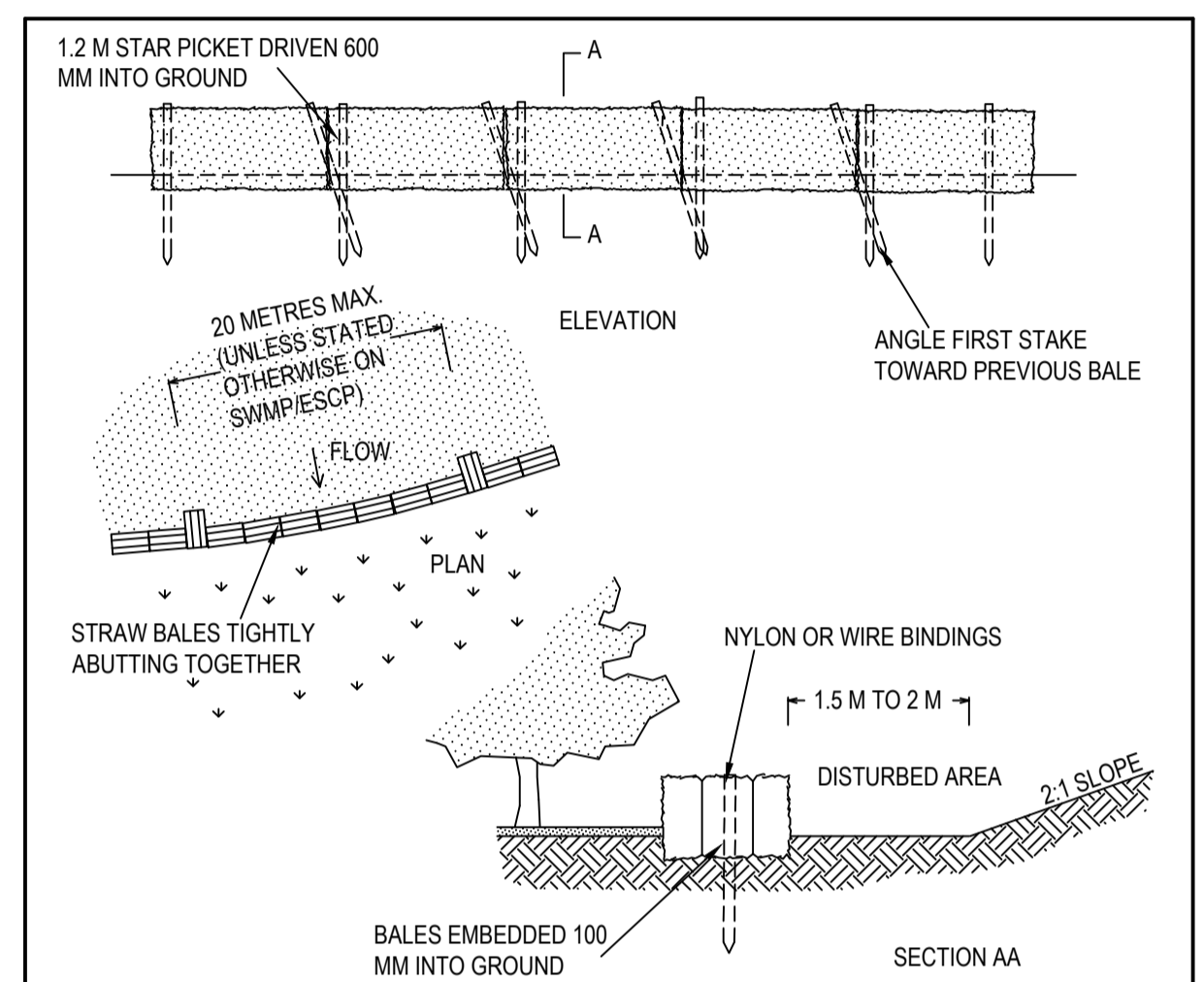
STOCKPILES SD 4-1



CONSTRUCTION NOTES

1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW) SD 5-5



CONSTRUCTION NOTES:

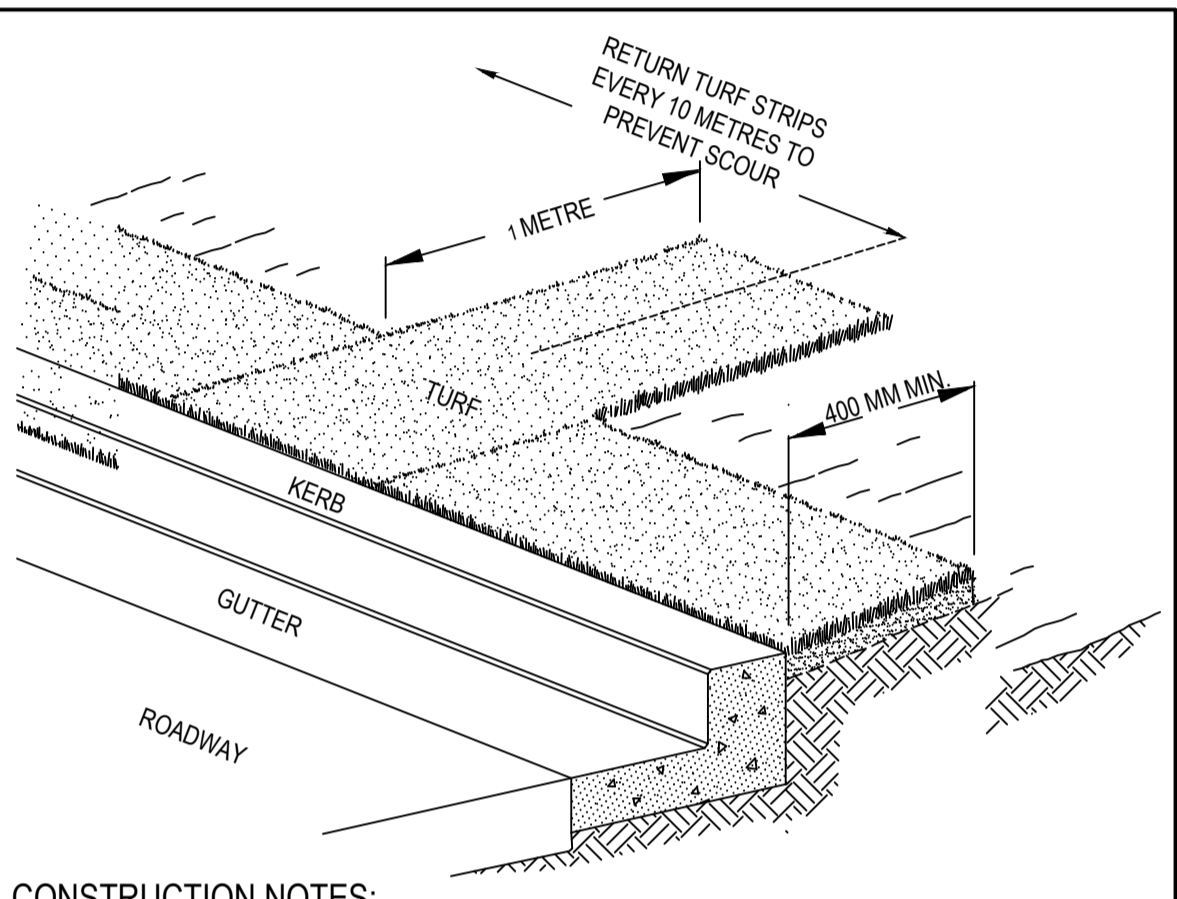
1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
4. EMBED EACH BALE IN THE GROUND 75 mm TO 100 mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE DRIVE THEM 600 mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

STRAW BALE FILTER SD 6-7

CONSTRUCTION NOTES:

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

SEDIMENT FENCE SD 6-8



CONSTRUCTION NOTES:

1. INSTALL A 400mm MINIMUM WIDE ROLL OF TURF ON THE FOOTPATH NEXT TO THE KERB AND AT THE SAME LEVEL AS THE TOP OF THE KERB.
2. LAY 1.4 METRE LONG TURF STRIPS NORMAL TO THE KERB EVERY 10m.
3. REHABILITATE DISTURBED SOIL BEHIND THE TURF STRIP FOLLOWING THE ESCP/SWMP.

KERBSIDE TURF STRIP SD 6-13

GENERAL NOTES:

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.

STOCKPILE NOTES:

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

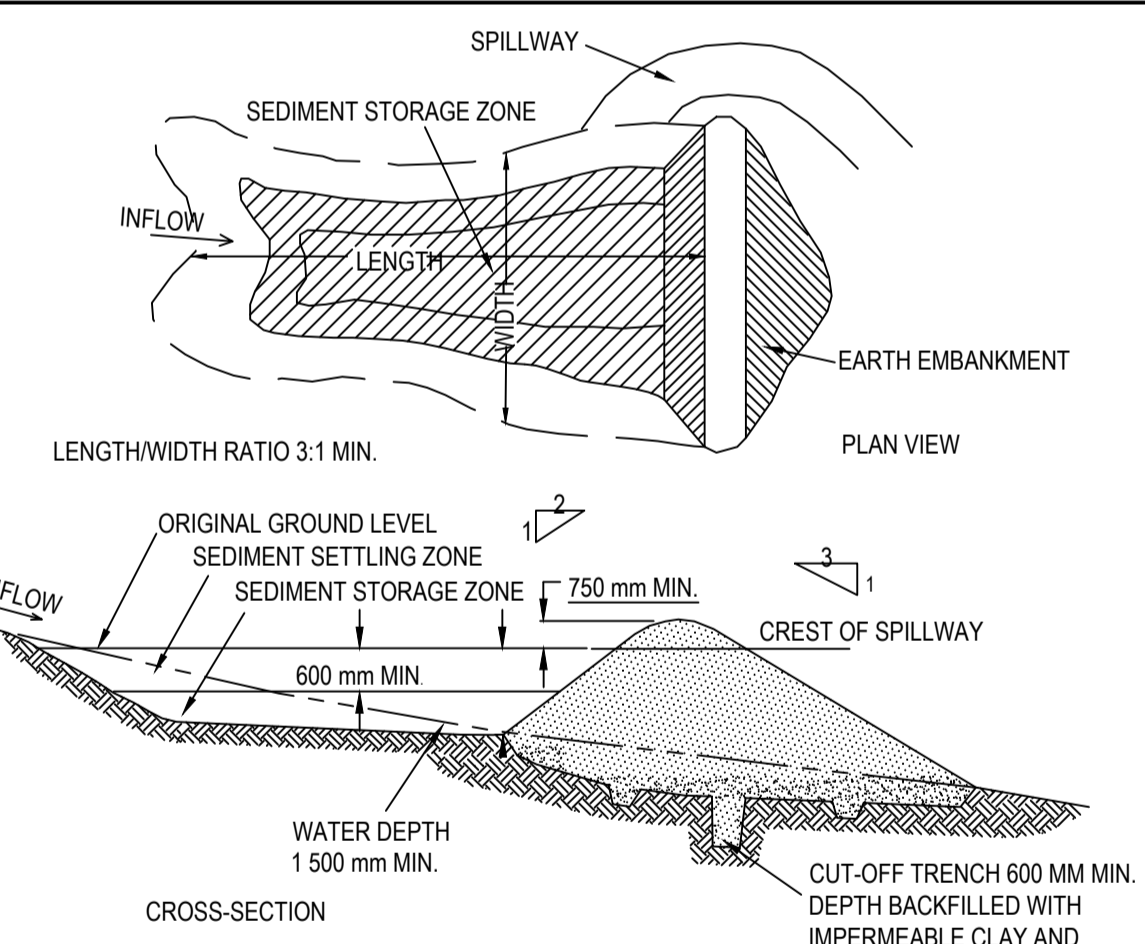
FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATE.

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

SEDIMENTATION CONTROL DEVICES:

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.



CONSTRUCTION NOTES:

1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. CONSTRUCT A CUT-OFF TRENCH 500 MM DEEP AND 1 200 MM WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.
4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100 MM TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
6. SPREAD THE FILL IN 100 MM TO 150 MM LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
7. CONSTRUCT THE EMERGENCY SPILLWAY. 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

EARTH BASIN - WET (APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY) SD 6-4

SPECIAL NOTES:

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.

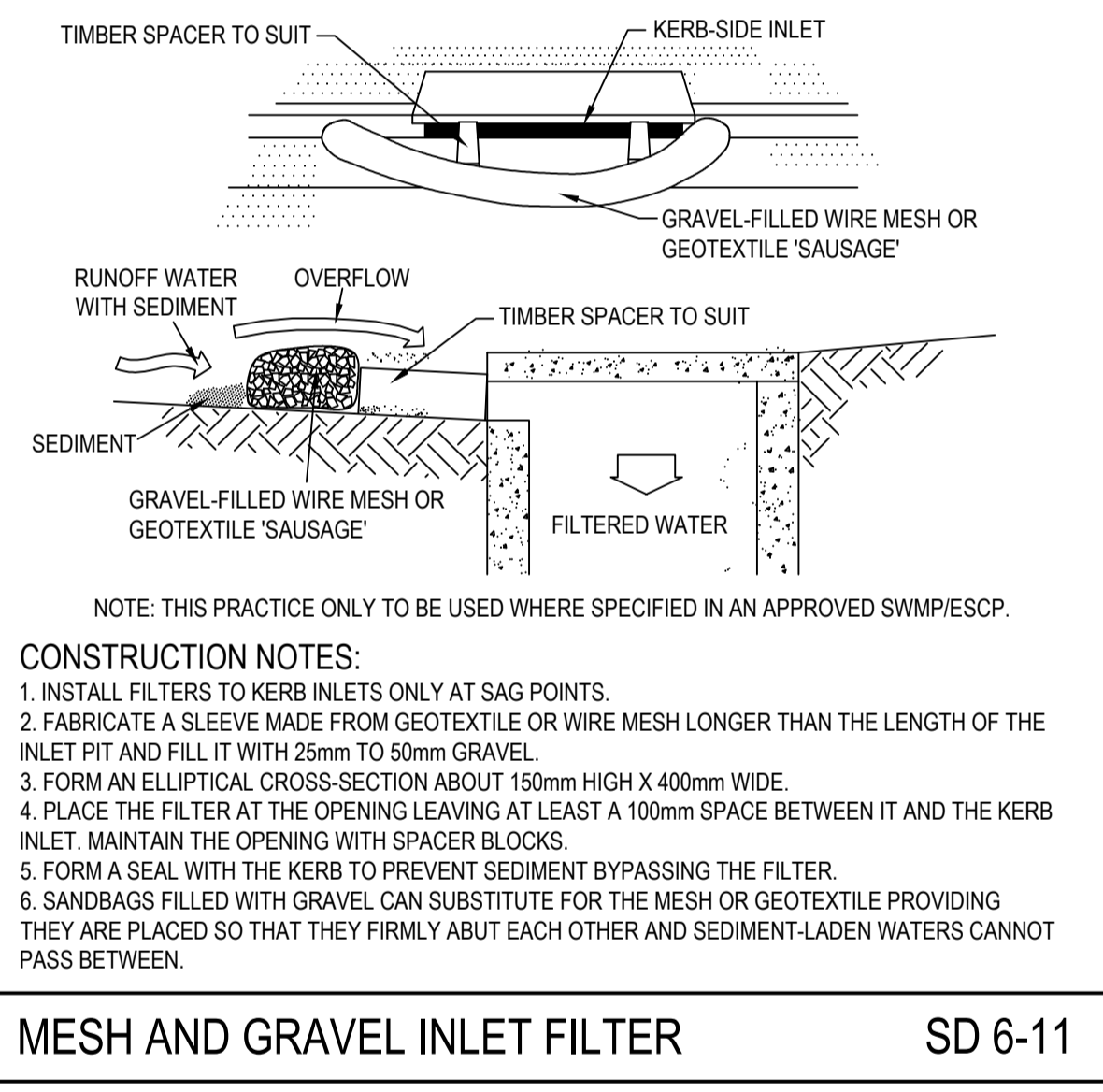
MANAGEMENT DEVICES SHALL BE MAINTAINED ON A REGULAR BASIS. WHERE CLEANING IS REQUIRED, THE SEDIMENT SHALL BE REMOVED TO A POINT NOMINATED BY THE ENGINEER.

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

- 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.

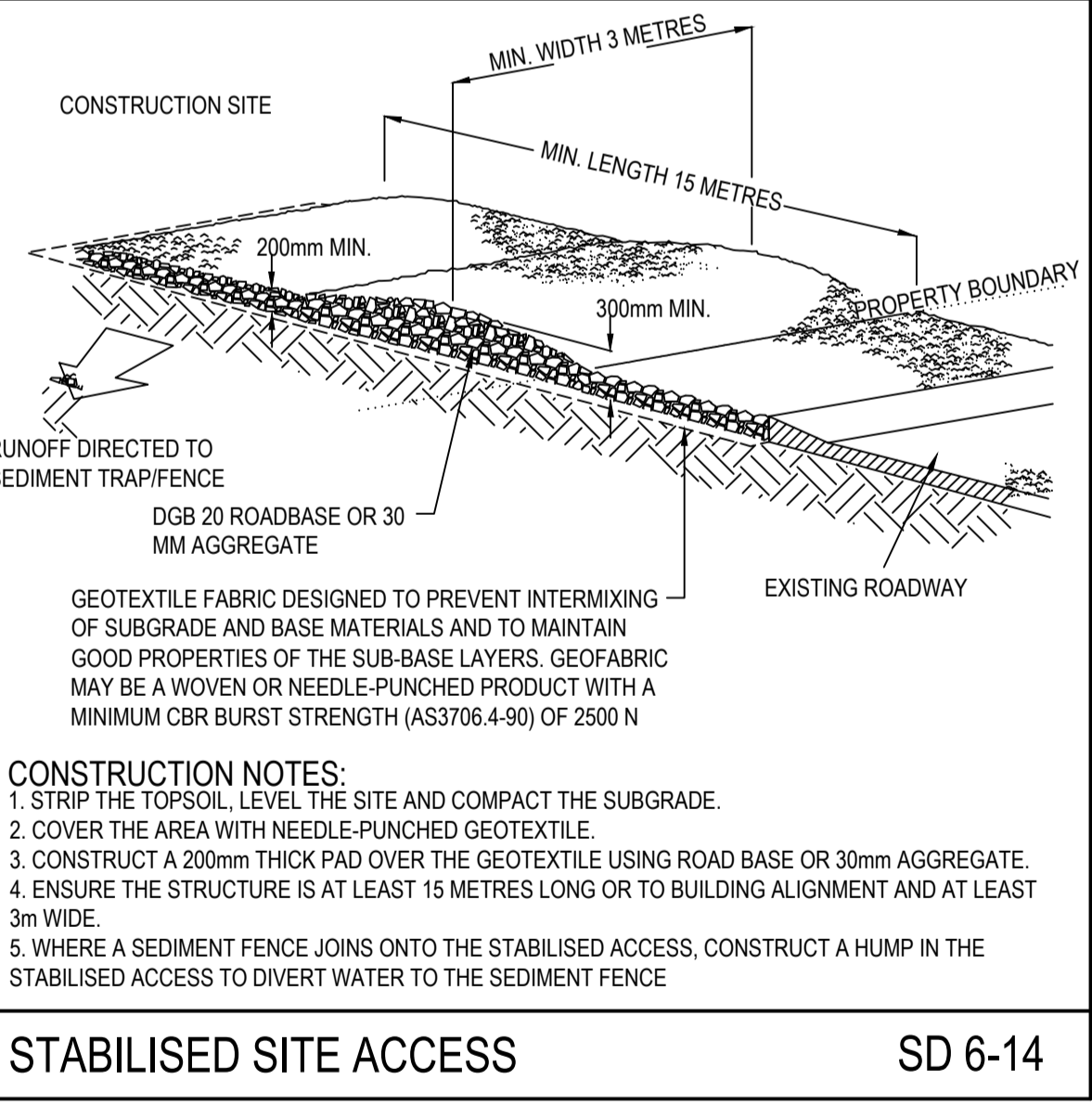
MANAGEMENT DEVICES TO REMAIN UNTIL THE END OF THE MAINTENANCE PERIOD.



CONSTRUCTION NOTES:

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

MESH AND GRAVEL INLET FILTER SD 6-11



CONSTRUCTION NOTES:

1. STRIP THE TOPSOIL LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS SD 6-14

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Scale:
0 5 10 15 20 25 30 35 40 45 50
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

Project:

DHL HORSLEY PARK
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	101	A

SEDIMENT & EROSION CONTROL NOTES & DETAILS

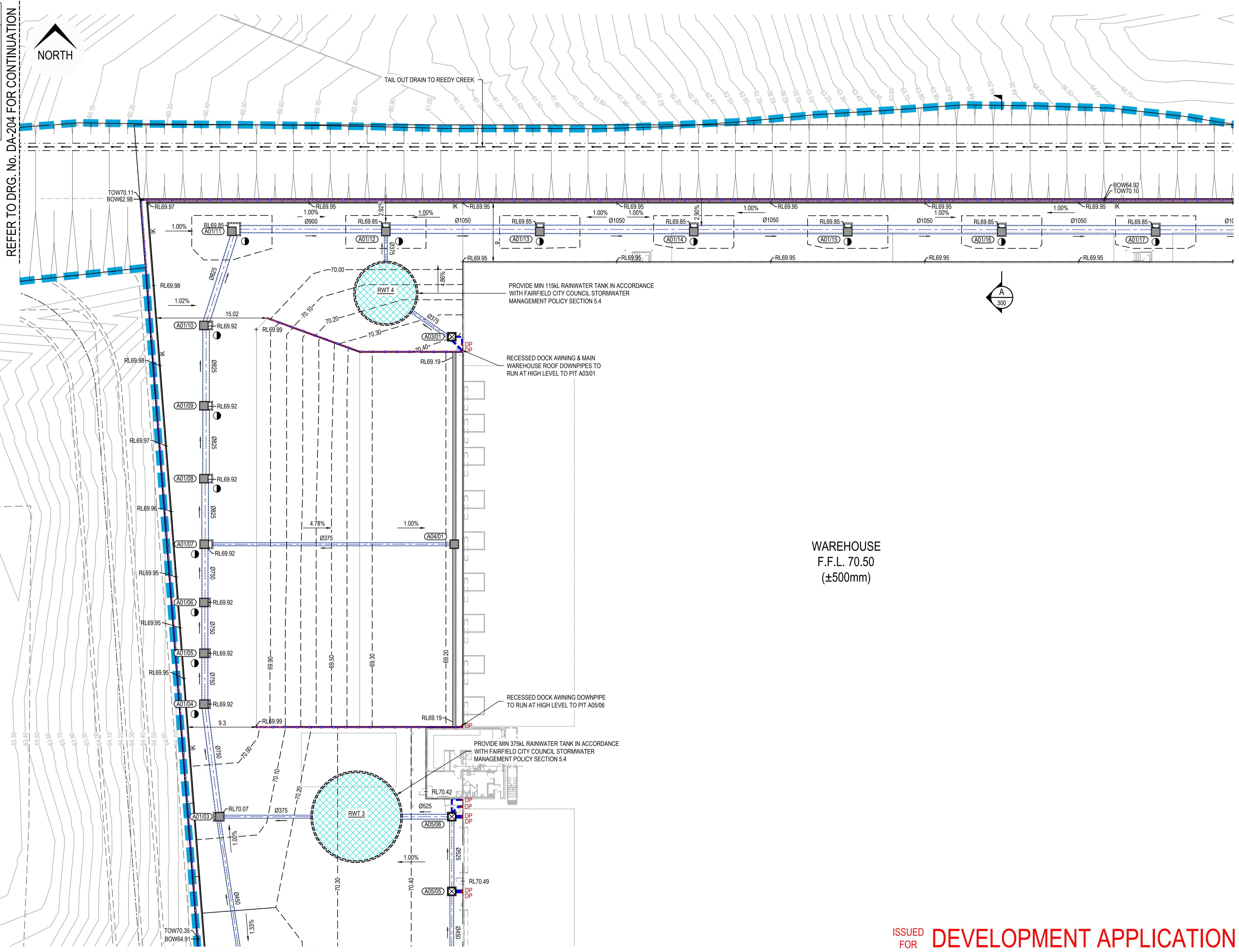
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LEGEND

- INDICATIVE DOWNPIPE LOCATION:
- RETAINING WALL:
- PROPOSED GUARD RAIL SAFETY BARRIER:
- TOP OF RETAINING WALL LEVEL: TOW RL 44.00
- BOTTOM OF RETAINING WALL LEVEL: BOW RL 43.00
- DRAINAGE SWALE:
- OCEANGUARD, REFER TO DRAWING No.406 FOR DETAILS:

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B	DL	DL	DL	MM	02-02-22	ISSUED FOR INFORMATION
A	DL	DL	MM	MM	27-01-22	50% DA PROGRESS ISSUE

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Scale: 0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25
 SCALE 1:250 (A1) SCALE 1:500 (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:

DHL HORSLEY PARK
 813 WALLGROVE ROAD,
 EASTERN CREEK, NSW

ISSUED FOR **DEVELOPMENT APPLICATION**
 NOT FOR CONSTRUCTION

Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	200	C

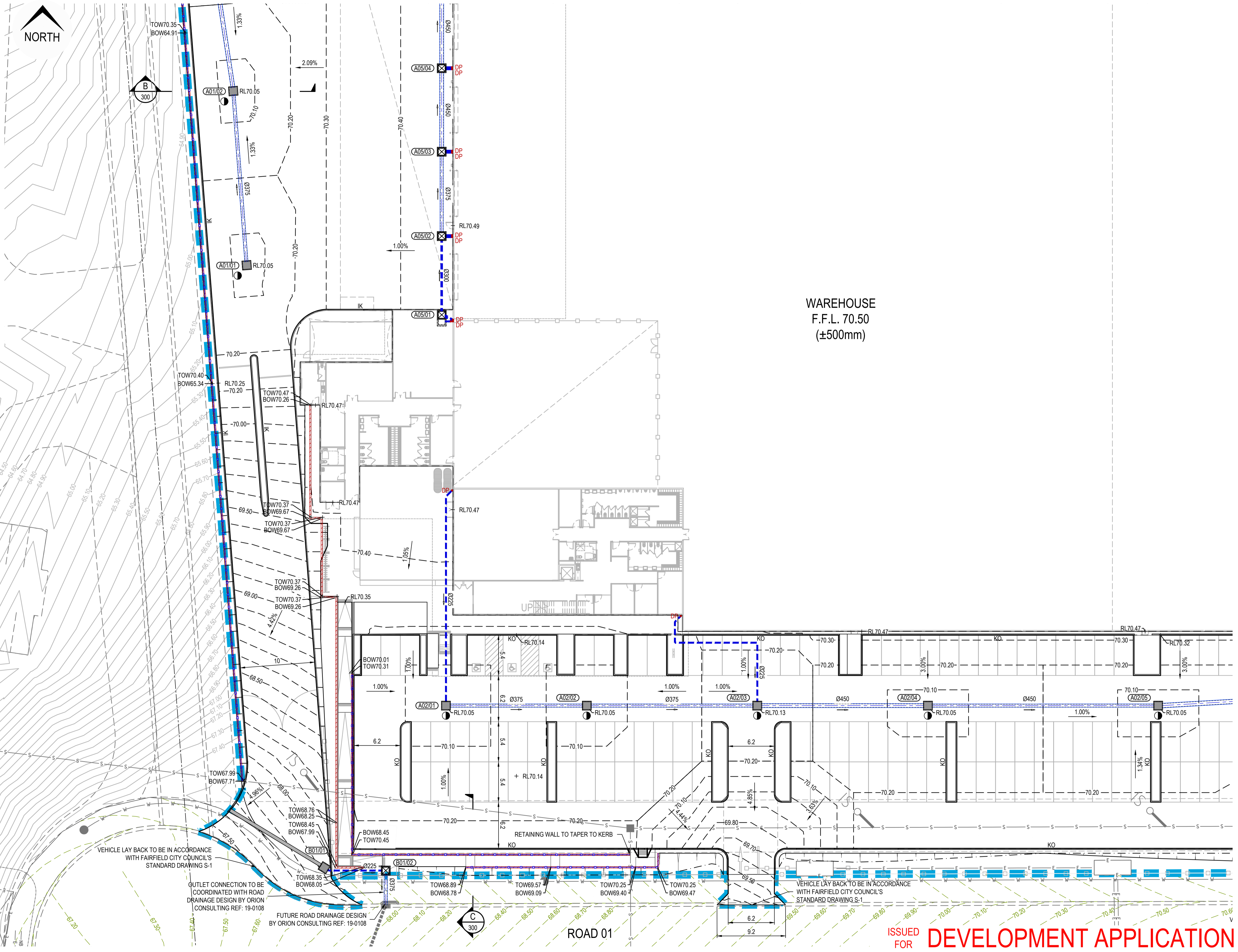
Title: ENGINEERING PLAN SHEET 01 OF 05

LEGEND

INDICATIVE DOWNPIPE LOCATION	
RETAINING WALL	
PROPOSED GUARD RAIL SAFETY BARRIER	
TOP OF RETAINING WALL LEVEL	⊗ TOW RL 44.00
BOTTOM OF RETAINING WALL LEVEL	⊗ BOW RL 43.00
DRAINAGE SWALE	
OCEANGUARD, REFER TO DRAWING No.406 FOR DETAILS	

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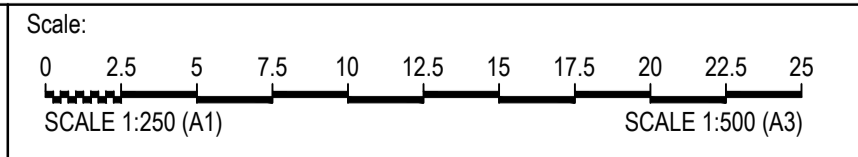


WAREHOUSE
F.F.L. 70.50
(±500mm)

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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION
B	DL	DL	DL	MM	02-02-22	ISSUED FOR INFORMATION
A	DL	DL	MM	MM	27-01-22	50% DA PROGRESS ISSUE

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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: **DHL HORSLEY PARK**
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

Title: ENGINEERING PLAN SHEET 02 OF 05				
Project No. 21-0262	Set No. 01	Milestone DA	Plan 201	Revision C

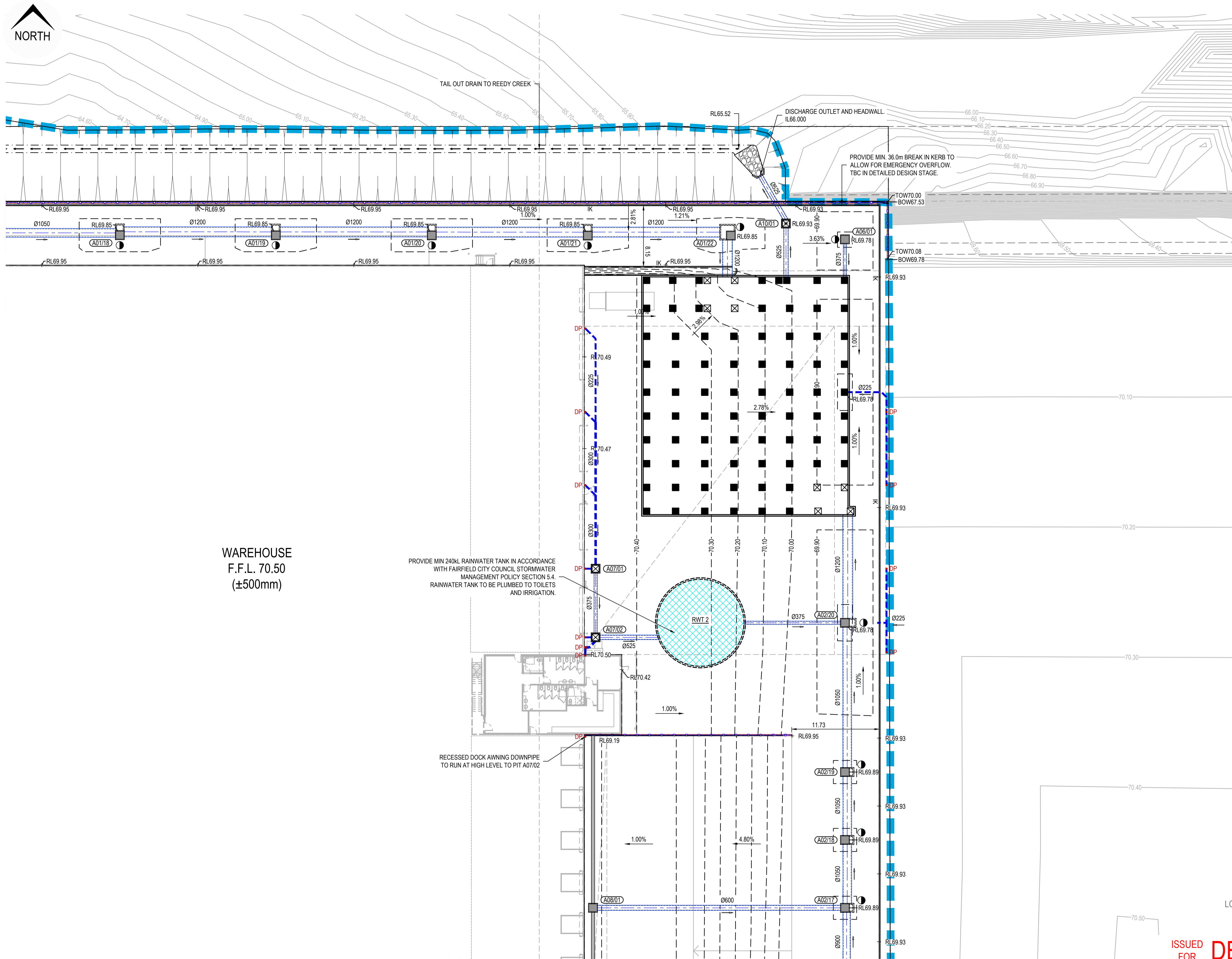


LEGEND

INDICATIVE DOWNPIPE LOCATION	
RETAINING WALL	
PROPOSED GUARD RAIL SAFETY BARRIER	
TOP OF RETAINING WALL LEVEL	
BOTTOM OF RETAINING WALL LEVEL	
DRAINAGE SWALE	
OCEANGUARD - REFER TO DRAWING No.406 FOR DETAILS	

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WAREHOUSE
F.F.L. 70.50
(±500mm)

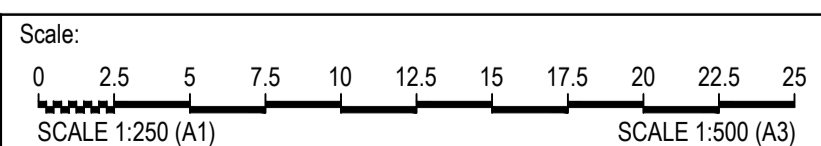
PROVIDE MIN 240KL RAINWATER TANK IN ACCORDANCE WITH FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY SECTION 5.4. RAINWATER TANK TO BE PLUMBED TO TOILETS AND IRRIGATION.

RECESSED DOCK AWNING DOWNPIPE TO RUN AT HIGH LEVEL TO PIT A07/02

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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION
B	DL	DL	DL	MM	02-02-22	ISSUED FOR INFORMATION
A	DL	DL	MM	MM	27-01-22	50% DA PROGRESS ISSUE

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Project: **DHL HORSLEY PARK**
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

Title: ENGINEERING PLAN SHEET 03 OF 05				
Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	202	C



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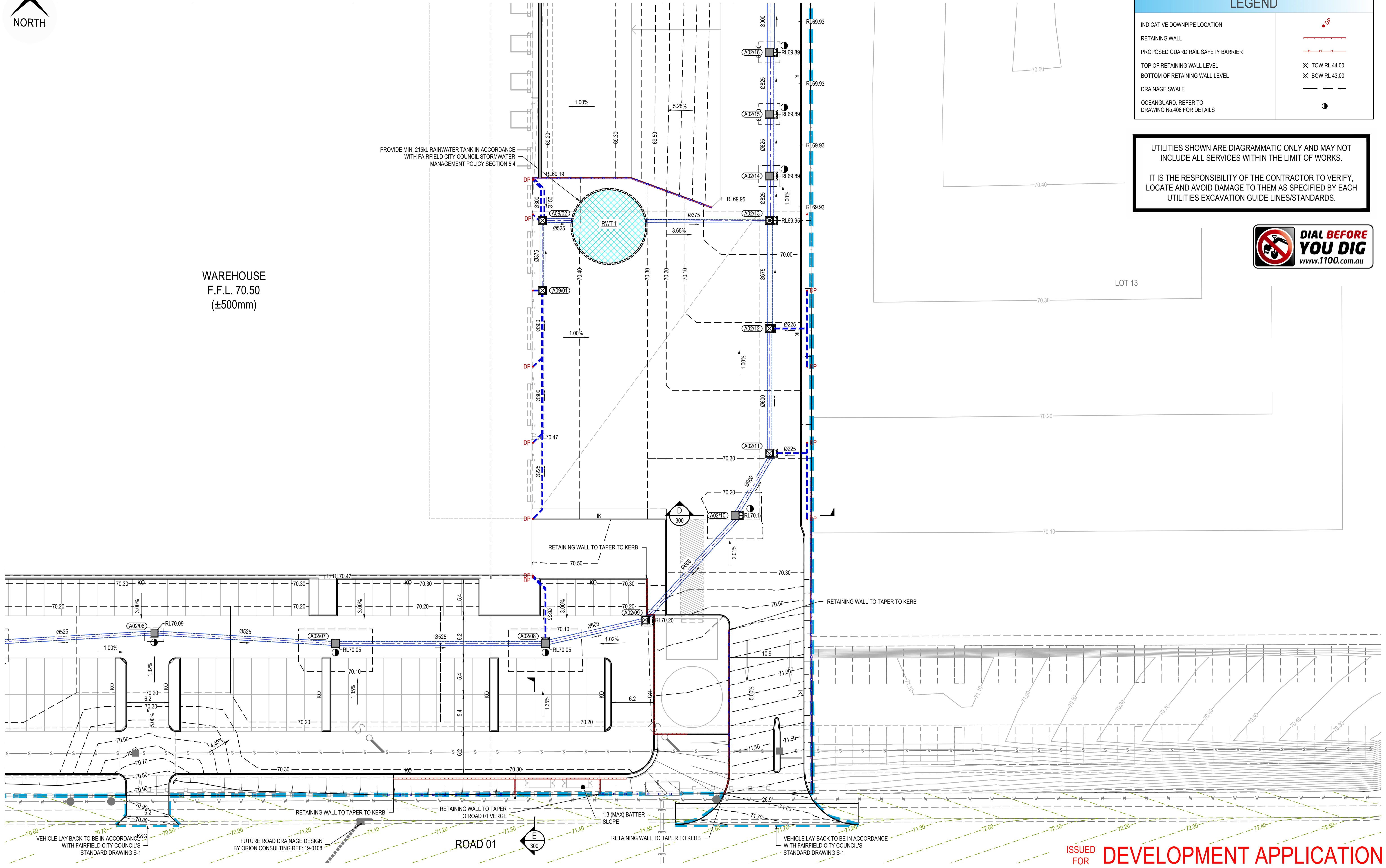
INDICATIVE DOWNPIPE LOCATION	
RETAINING WALL	
PROPOSED GUARD RAIL SAFETY BARRIER	
TOP OF RETAINING WALL LEVEL	
BOTTOM OF RETAINING WALL LEVEL	
DRAINAGE SWALE	
OCEANGUARD. REFER TO DRAWING No.406 FOR DETAILS	

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WAREHOUSE
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(±500mm)



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A	DL	DL	MM	MM	27-01-22	50% DA PROGRESS ISSUE

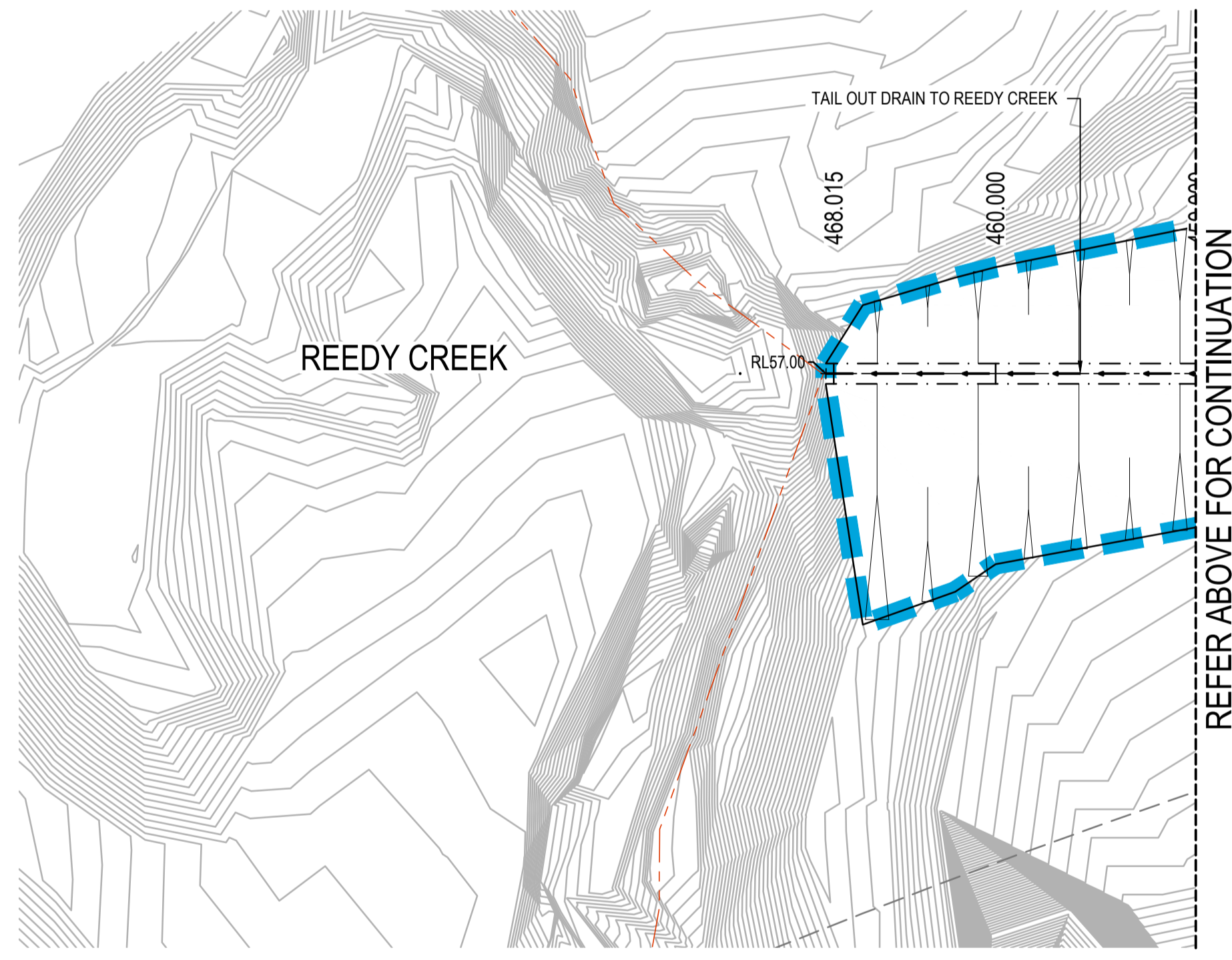
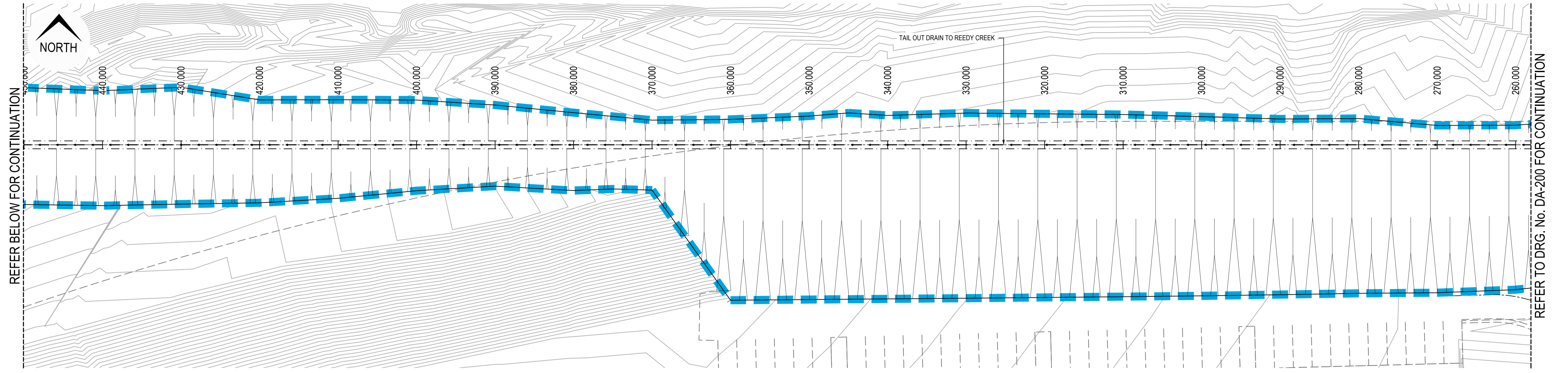
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Project: DHL HORSLEY PARK
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

Title: ENGINEERING PLAN SHEET 04 OF 05				
Project No. 21-0262	Set No. 01	Milestone DA	Plan 203	Revision C



LEGEND	
INDICATIVE DOWNPIPE LOCATION	
RETAINING WALL	
PROPOSED GUARD RAIL SAFETY BARRIER	
TOP OF RETAINING WALL LEVEL	
BOTTOM OF RETAINING WALL LEVEL	
DRAINAGE SWALE	
OCEANGUARD. REFER TO DRAWING No.406 FOR DETAILS	

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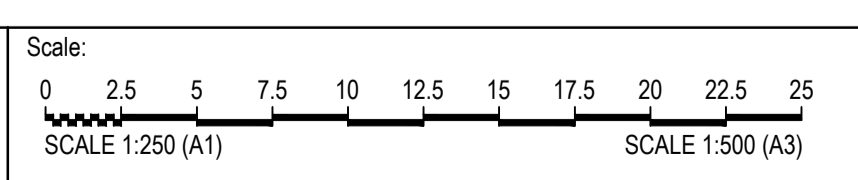
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.



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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
A	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION

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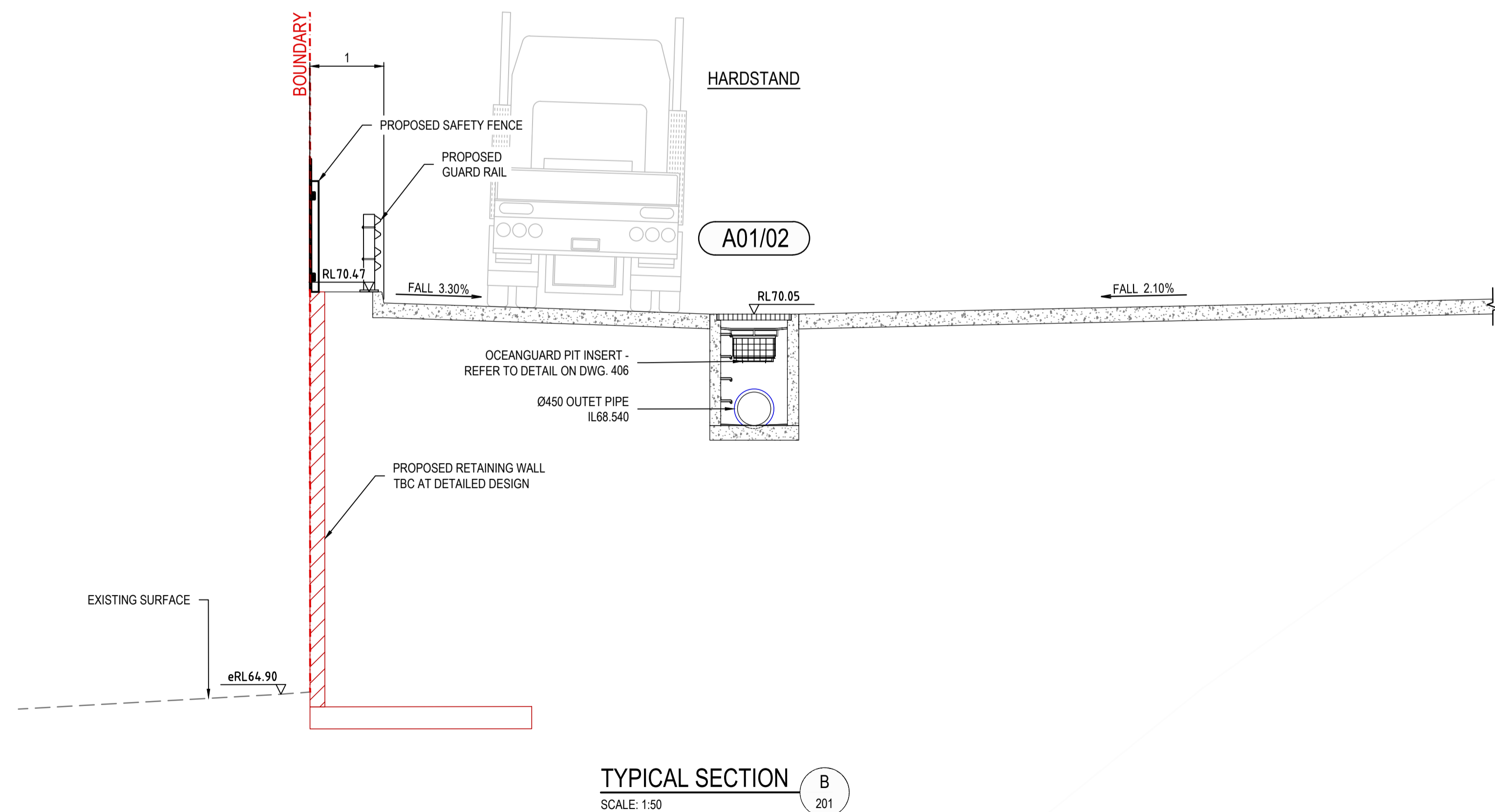
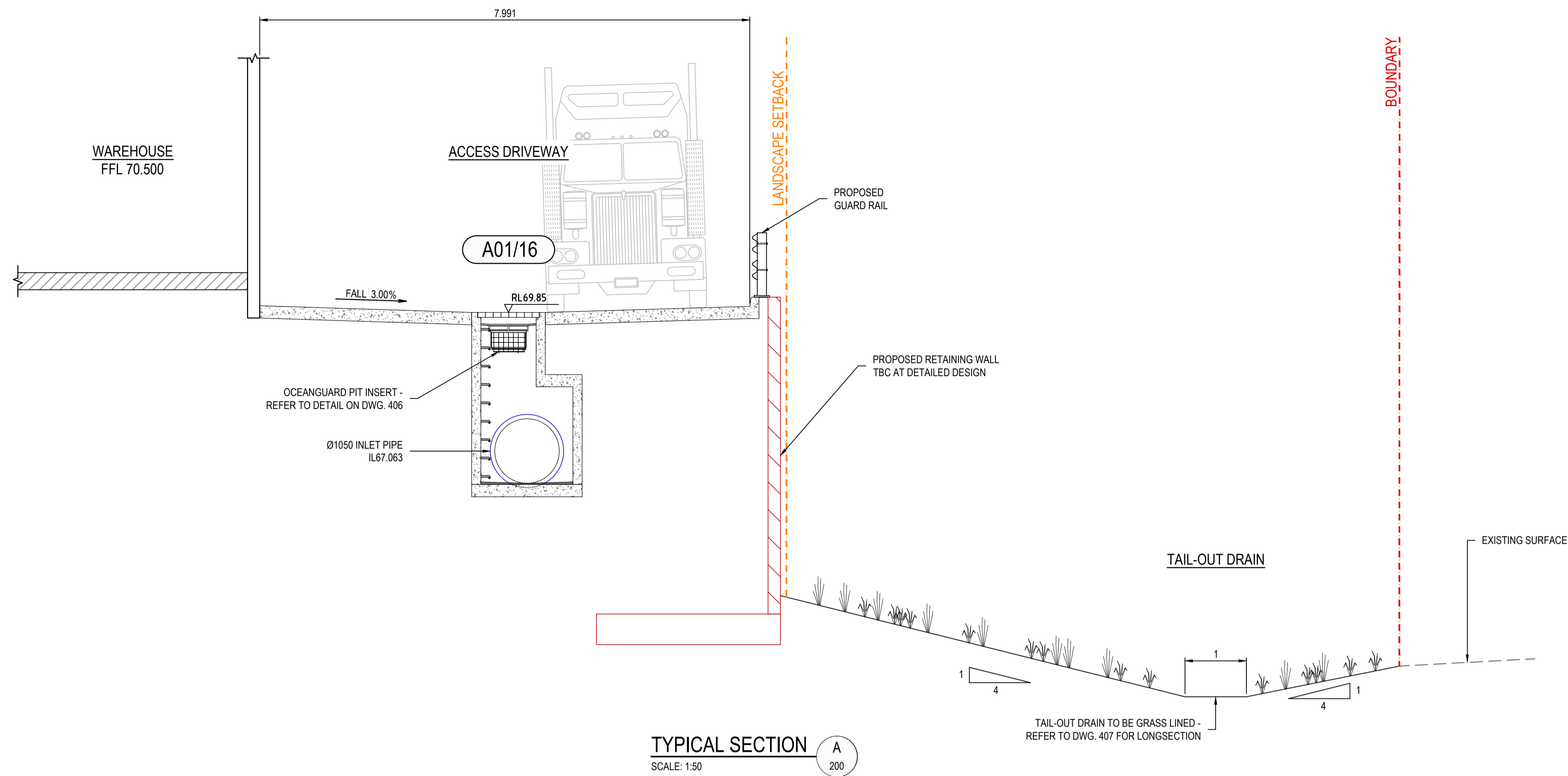


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 For:
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Project: DHL HORSLEY PARK
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

ENGINEERING PLAN SHEET 05 OF 05				
Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	204	A

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TYPICAL SITE SECTIONS
SHEET 02 OF 02

Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	300	A

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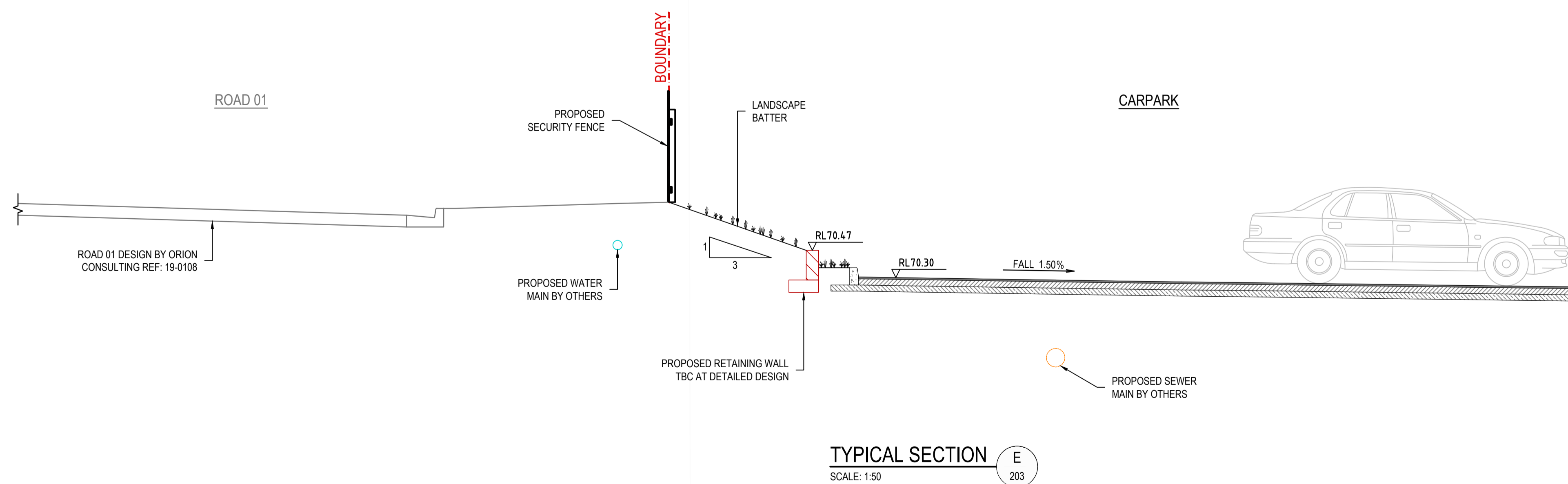
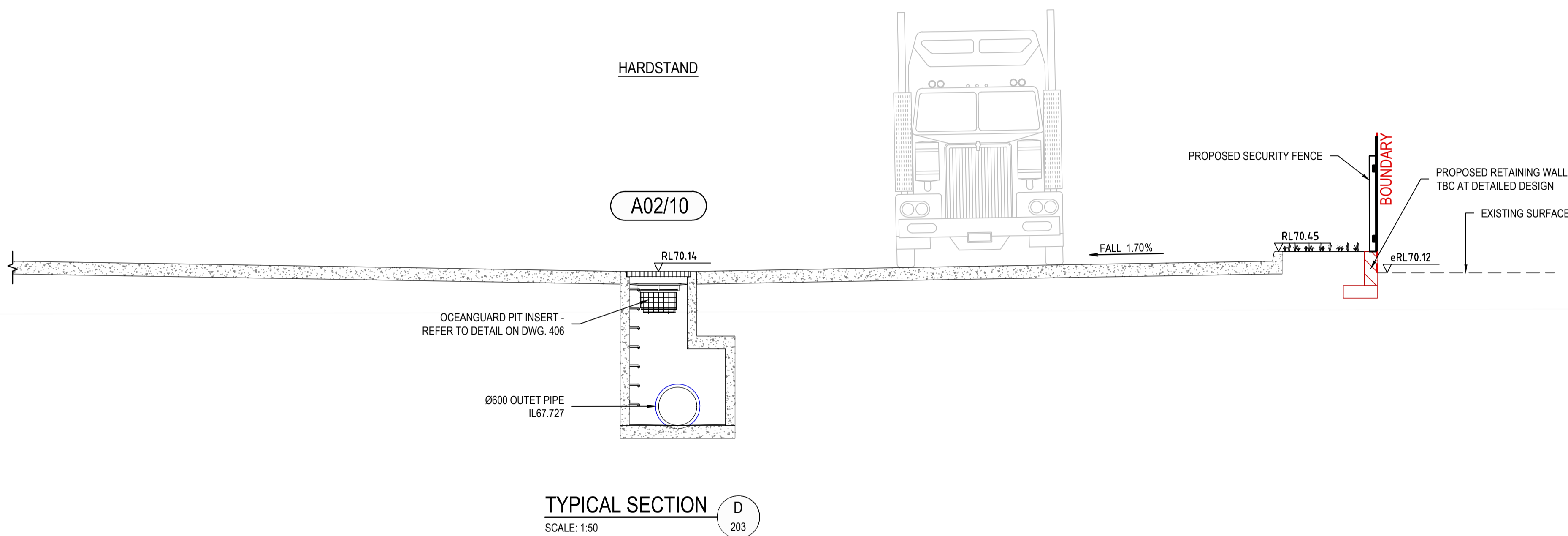
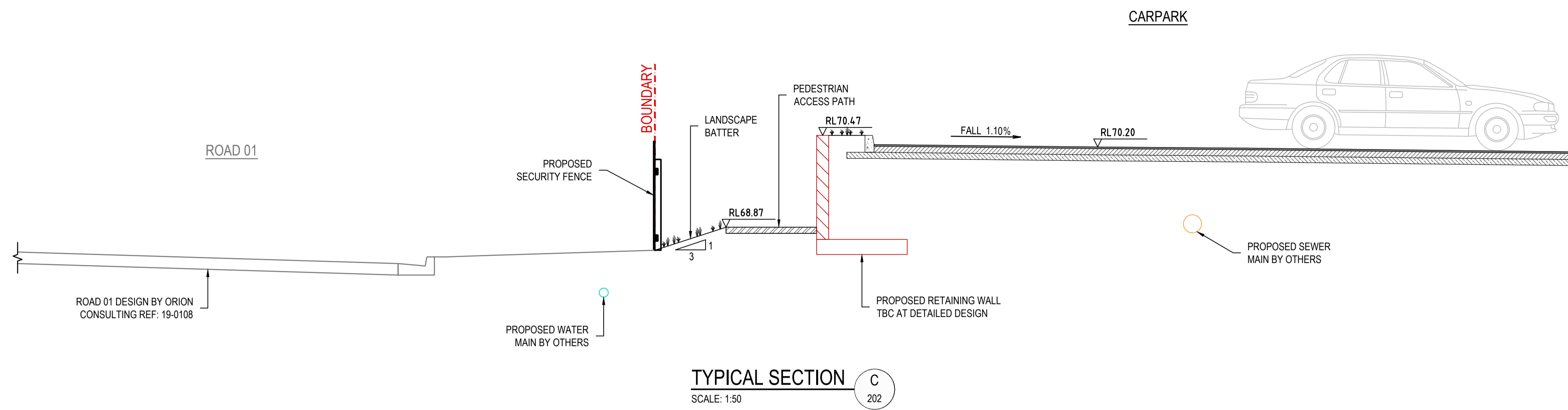


Project:
DHL HORSLEY PARK
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

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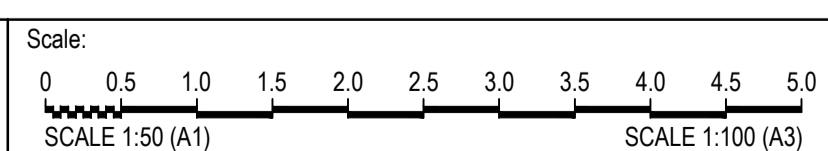
Rev	Drawn	Design	Check	Appd.	Date	Revision Description
A	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION



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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
A	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION

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For:

Project: DHL HORSLEY PARK
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

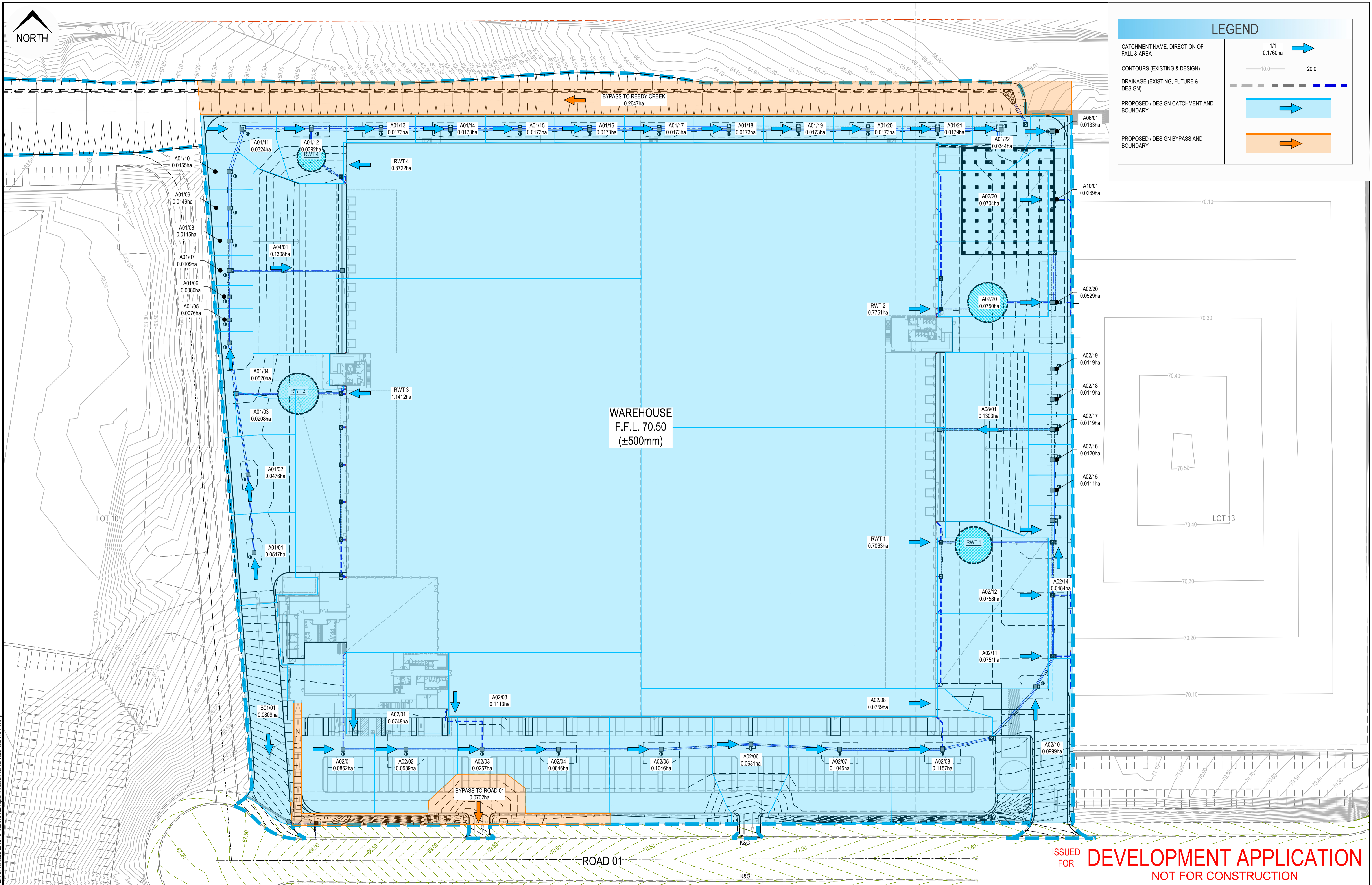
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21-0262	01	DA	301	A

Title: TYPICAL SITE SECTIONS SHEET 01 OF 02



LEGEND

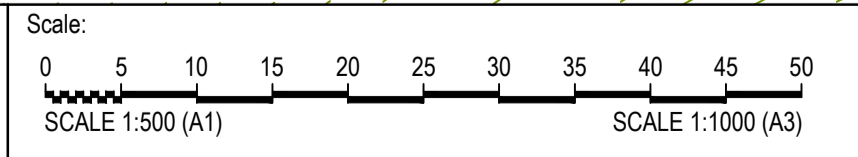
CATCHMENT NAME, DIRECTION OF FALL & AREA	1/1 0.1760ha	
CONTOURS (EXISTING & DESIGN)	-10.0	-20.0
DRAINAGE (EXISTING, FUTURE & DESIGN)		
PROPOSED / DESIGN CATCHMENT AND BOUNDARY		
PROPOSED / DESIGN BYPASS AND BOUNDARY		



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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION
A	DL	DL	MM	MM	27-01-22	50% DA PROGRESS ISSUE

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Project: **JAS-ANZ**

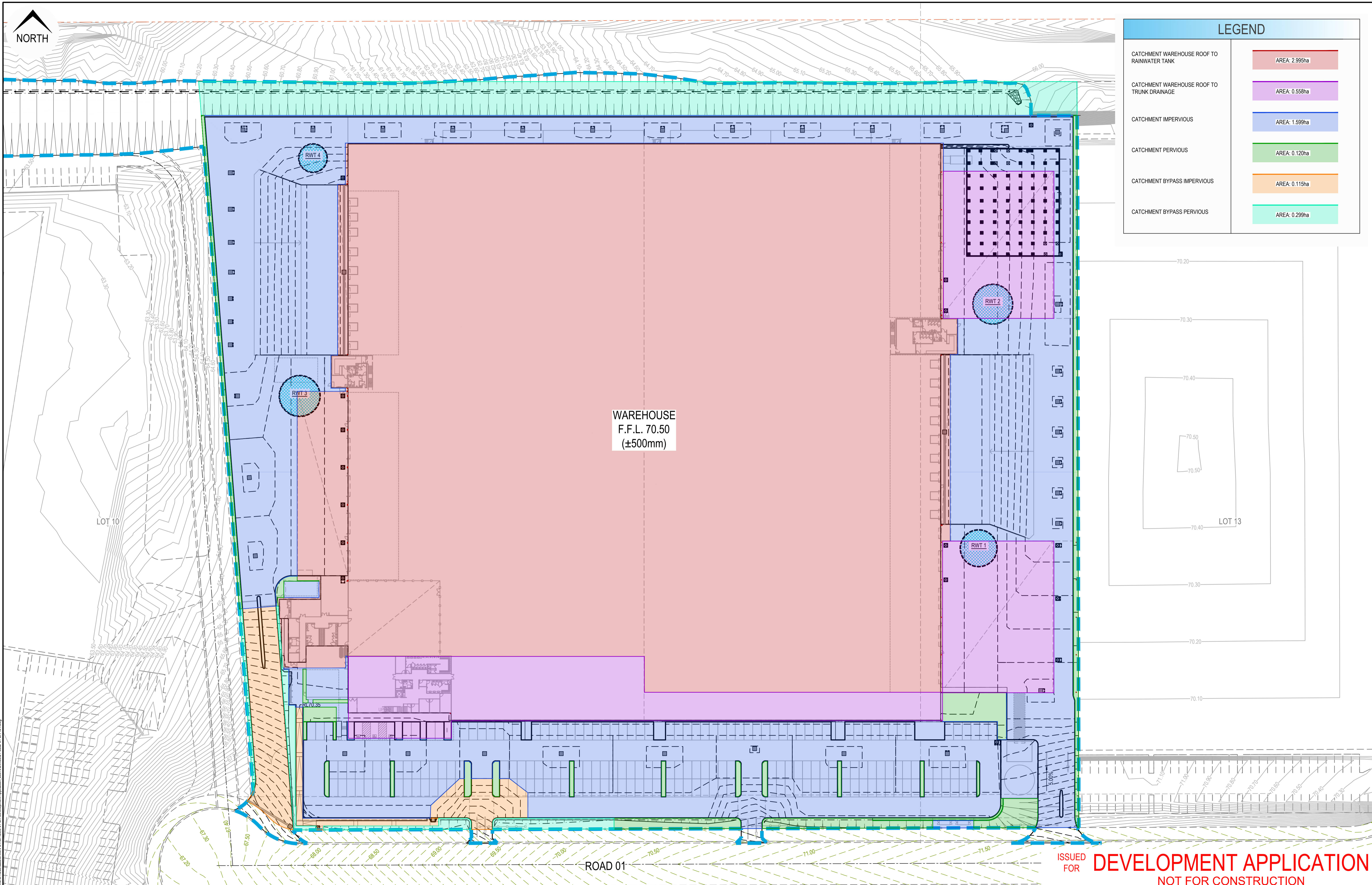
Project: **DHL HORSLEY PARK**
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

Title: STORMWATER CATCHMENT PLAN				
Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	400	B



LEGEND

CATCHMENT WAREHOUSE ROOF TO RAINWATER TANK	AREA: 2.995ha
CATCHMENT WAREHOUSE ROOF TO TRUNK DRAINAGE	AREA: 0.558ha
CATCHMENT IMPERVIOUS	AREA: 1.599ha
CATCHMENT PERVIOUS	AREA: 0.120ha
CATCHMENT BYPASS IMPERVIOUS	AREA: 0.115ha
CATCHMENT BYPASS PERVIOUS	AREA: 0.299ha

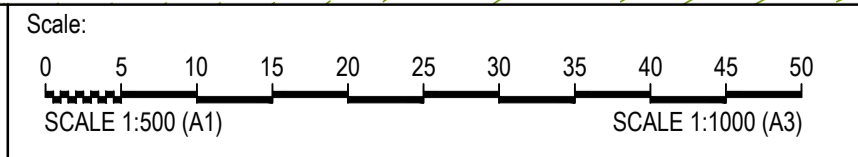


WAREHOUSE
F.F.L. 70.50
(±500mm)

**ISSUED FOR DEVELOPMENT APPLICATION
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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION
A	DL	DL	MM	MM	27-01-22	50% DA PROGRESS ISSUE

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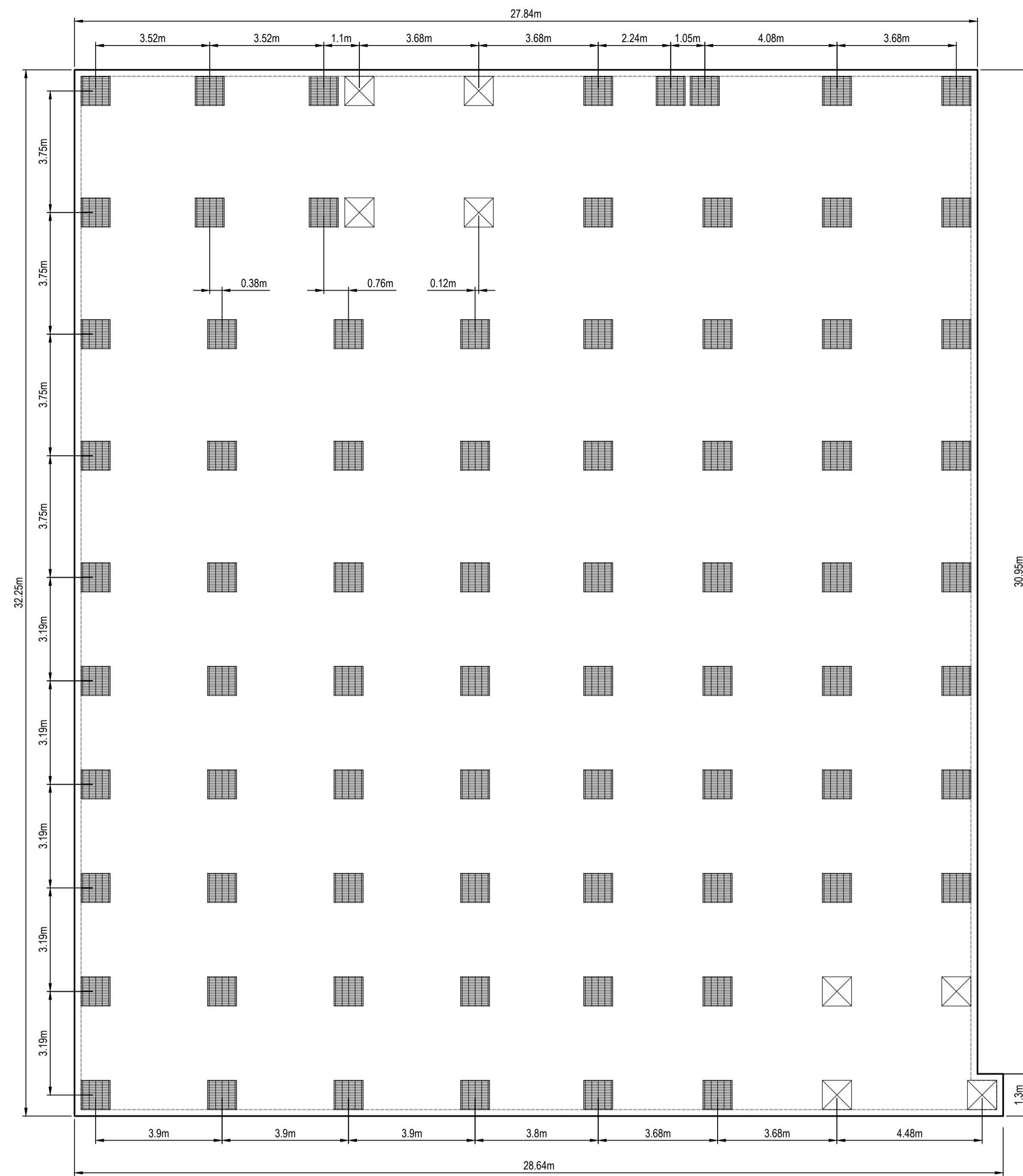
By: **Orion Consulting**

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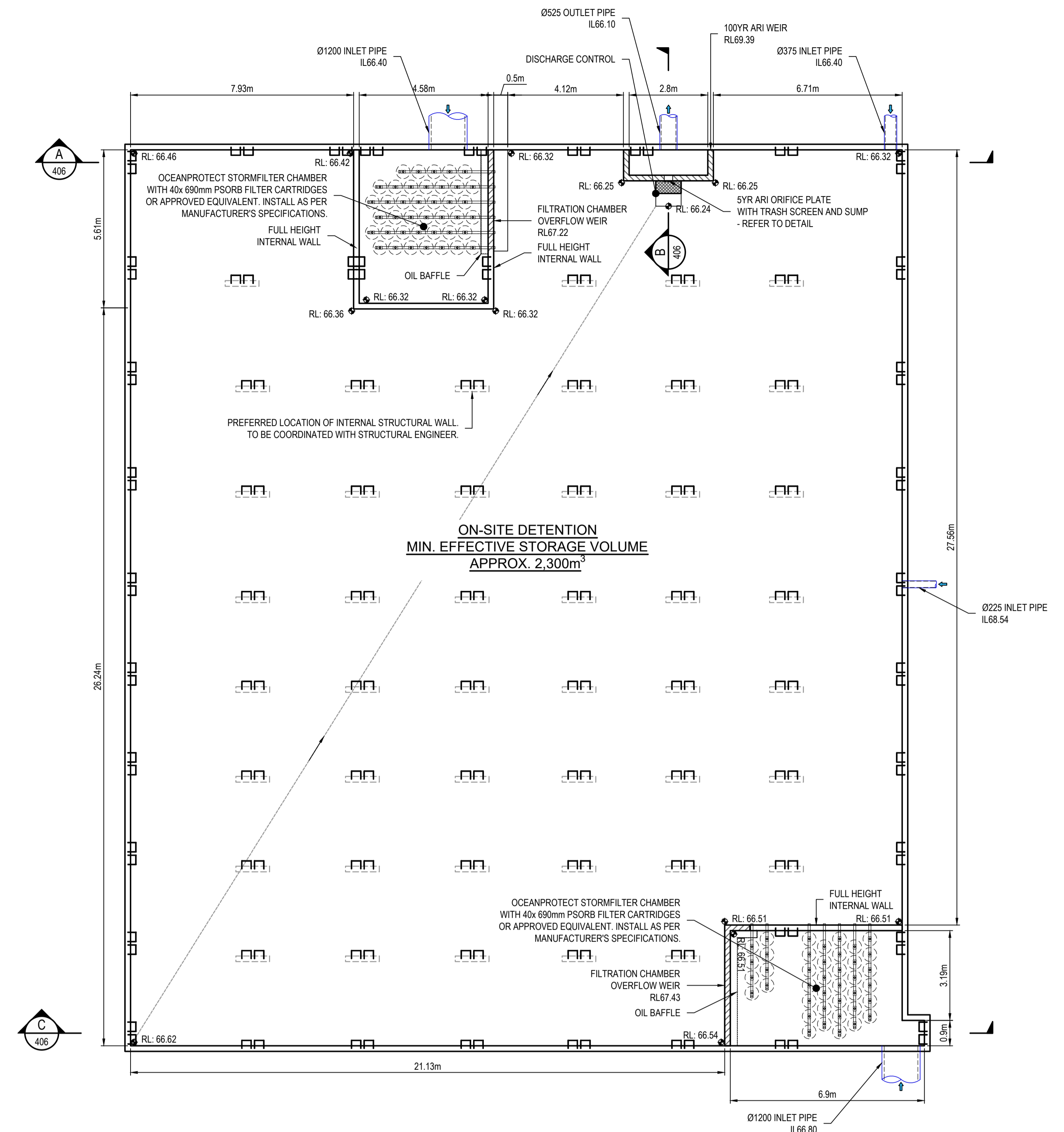
Project: **DHL HORSLEY PARK
813 WALLGROVE ROAD,
EASTERN CREEK, NSW**

Title: MUSIC CATCHMENT PLAN				
Project No. 21-0262	Set No. 01	Milestone DA	Plan 401	Revision B

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OSD TANK - ROOF PLAN
SCALE 1:100

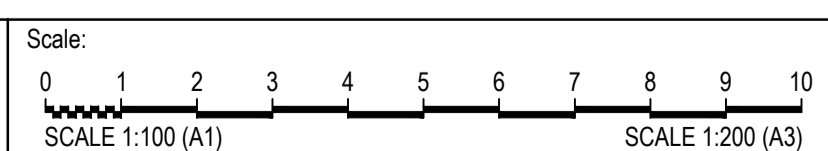


OSD TANK - BASE PLAN
SCALE 1:100

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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
A	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION

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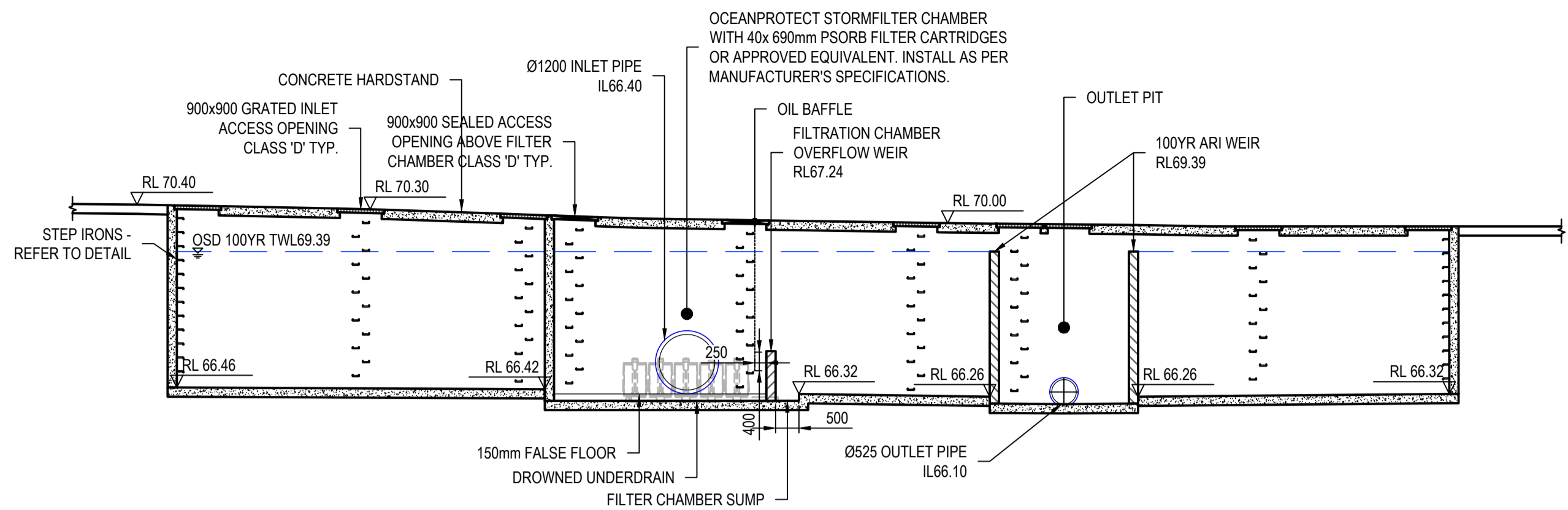
By: **Orion Consulting**

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

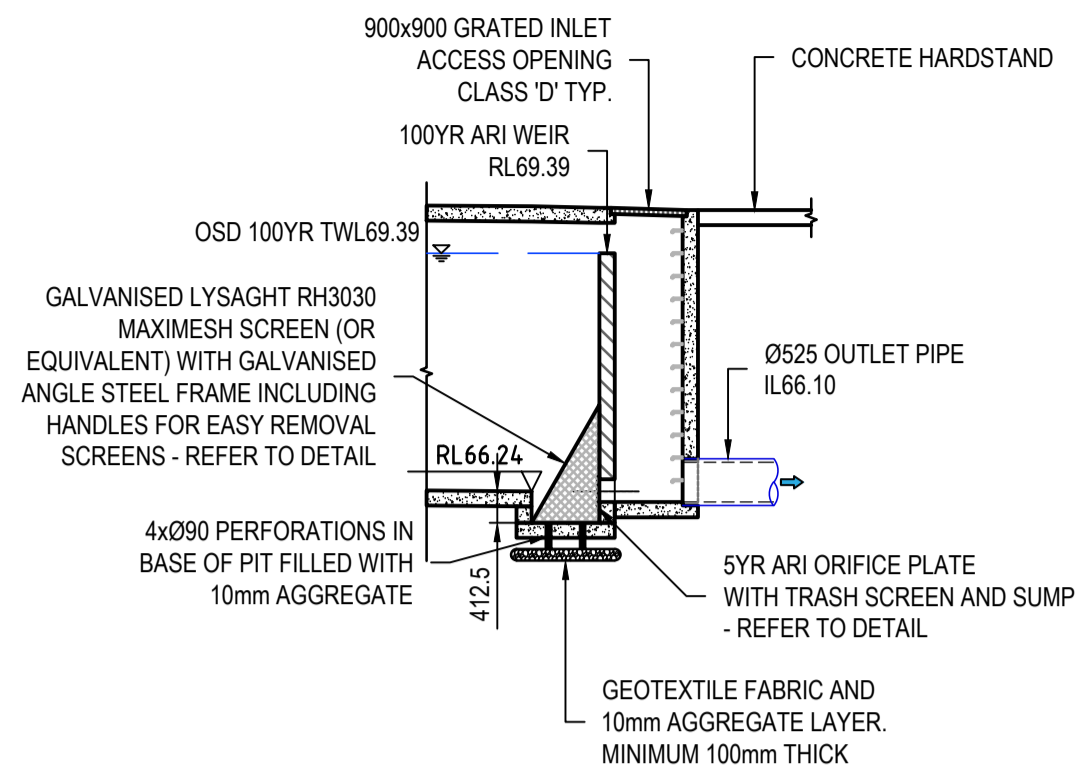
Project: **DHL HORSLEY PARK**
813 WALLGROVE ROAD,
EASTERN CREEK, NSW

Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	405	A

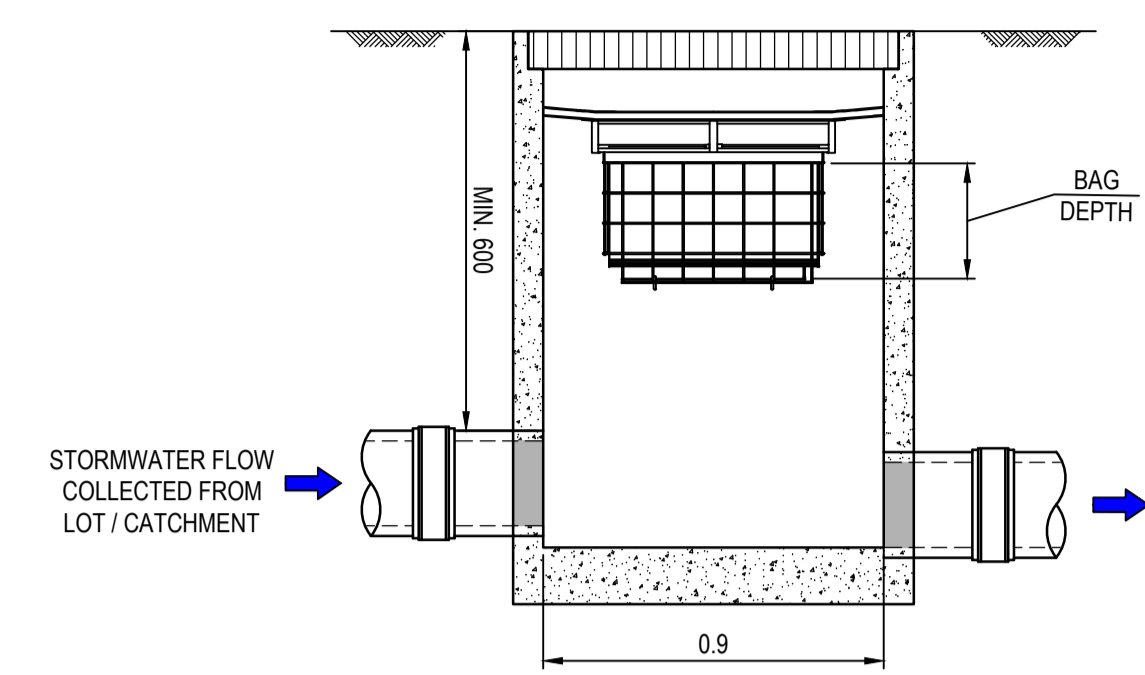
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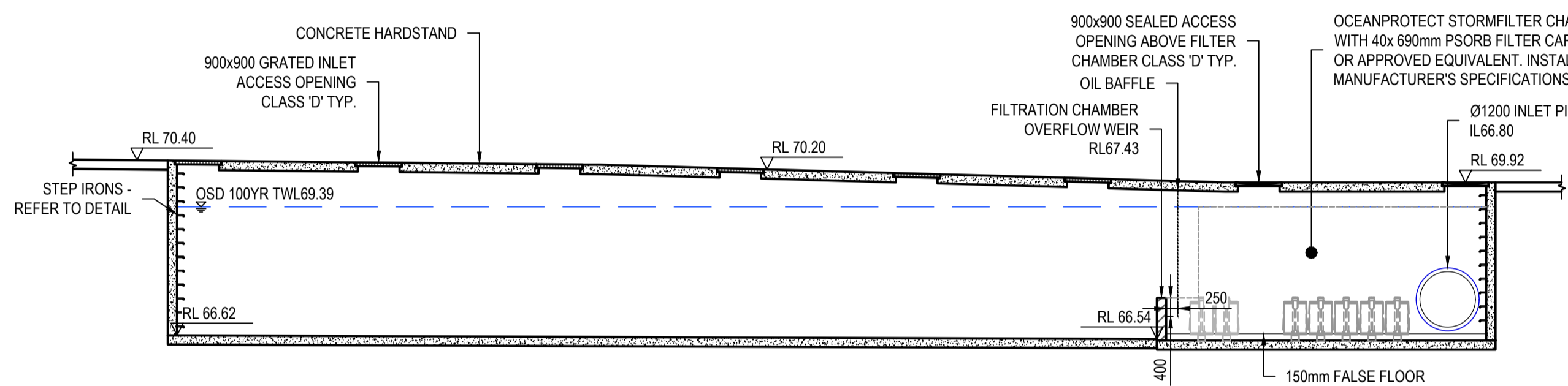
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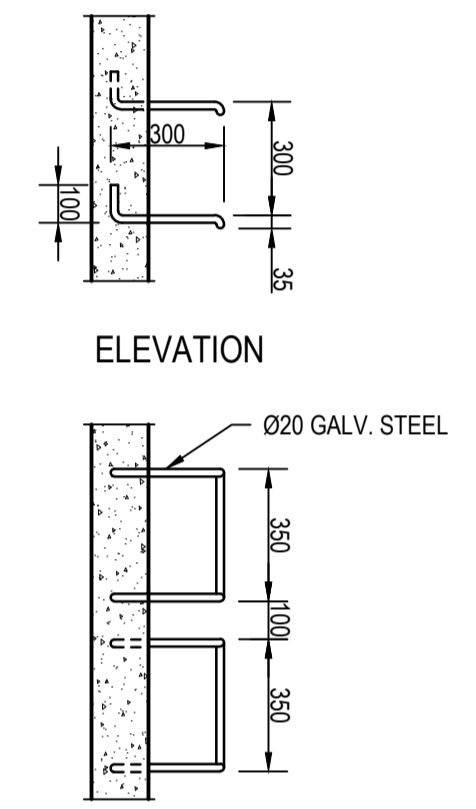
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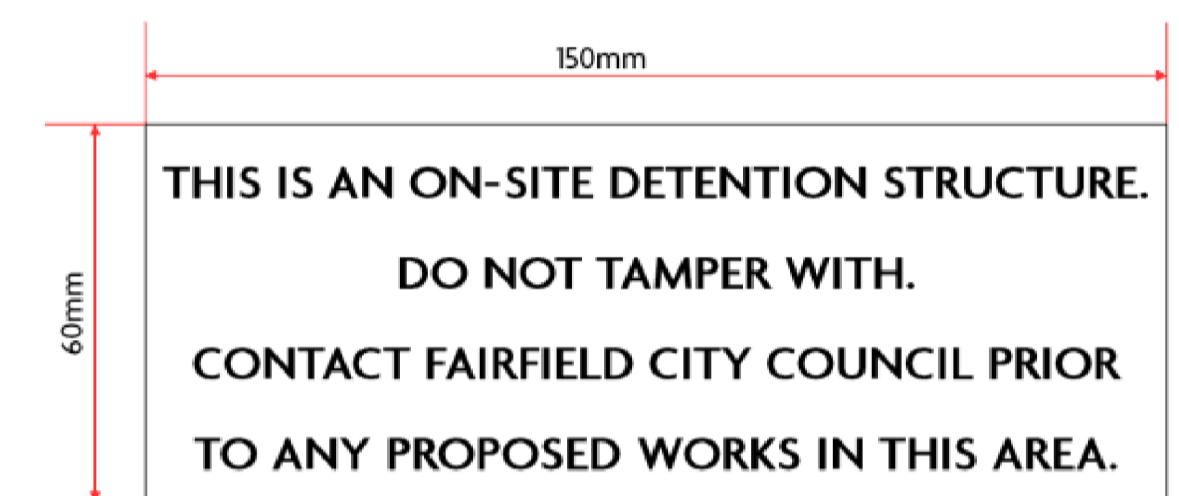
OCEANGUARD CONFIGURATION
SCALE: 1:20



OSD SECTION C
SCALE: 1:100

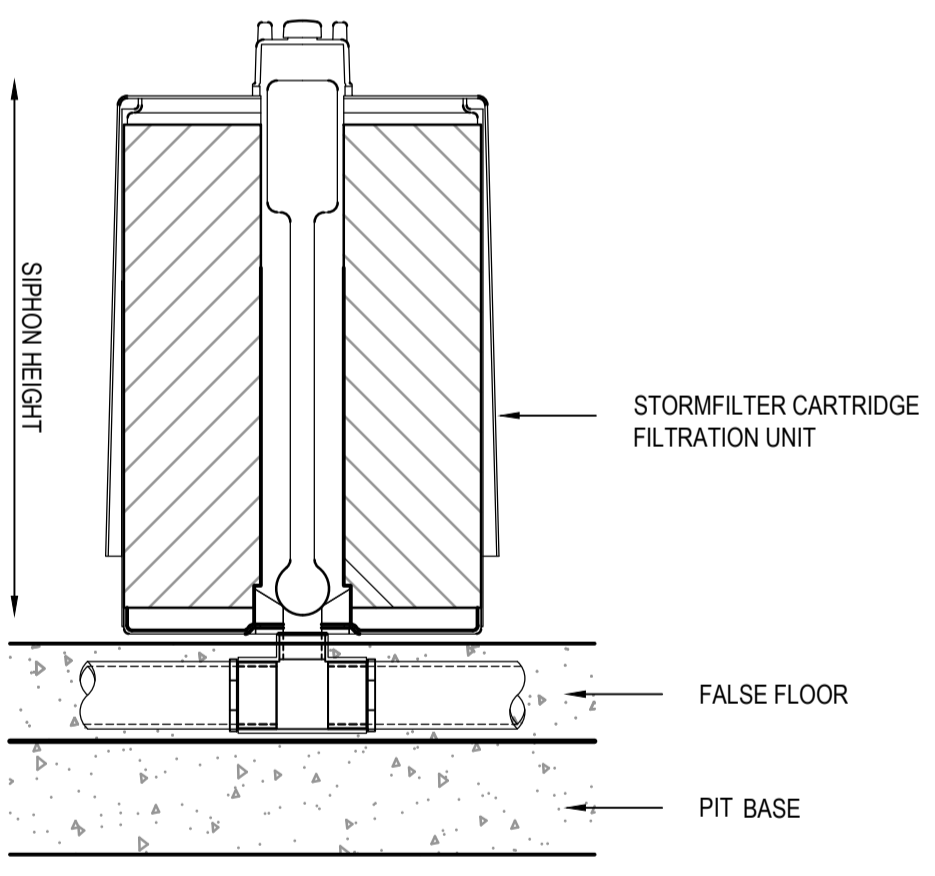


STEP IRONS DETAILS
N.T.S.
STEP IRONS SHALL BE STAGGERED AT 300 CENTRES

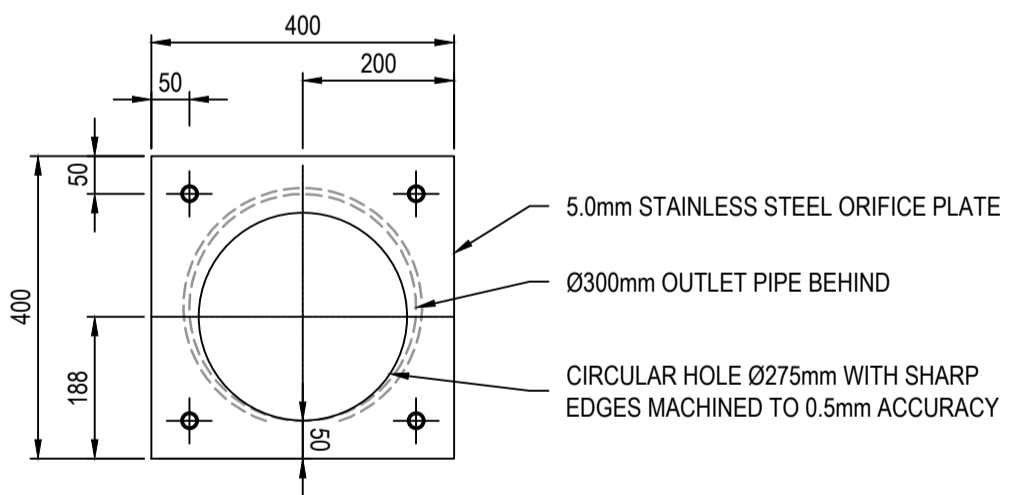


OSD SIGNAGE
N.T.S.

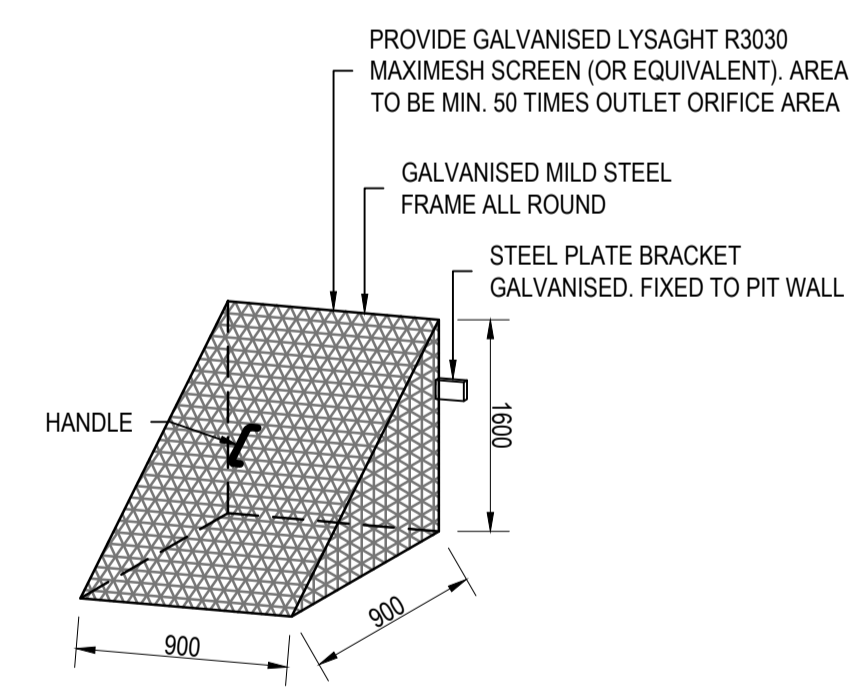
STANDARD ON-SITE DETENTION MARKER PLATES TO BE FIXED ON ALL OSD TANKS IN ACCORDANCE WITH FAIRFIELD CITY COUNCIL STORMWATER MANAGEMENT POLICY 2017



STORMFILTER CARTRIDGE DETAIL
SCALE: N.T.S.



ORIFICE PLATE
SCALE: 1:10

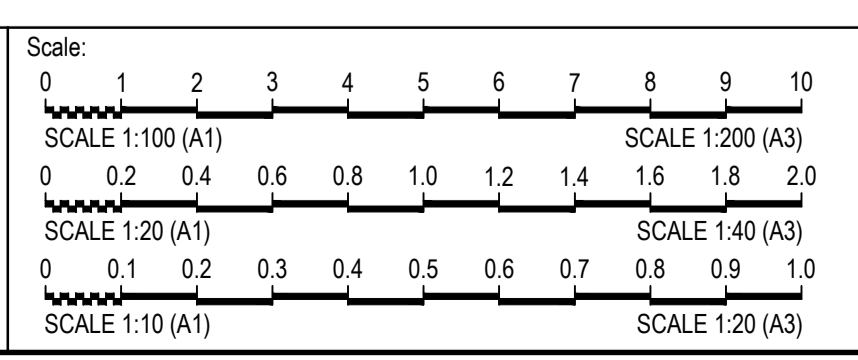


TYPICAL TRASH SCREEN
N.T.S.

ISSUED FOR **DEVELOPMENT APPLICATION**
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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
A	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION

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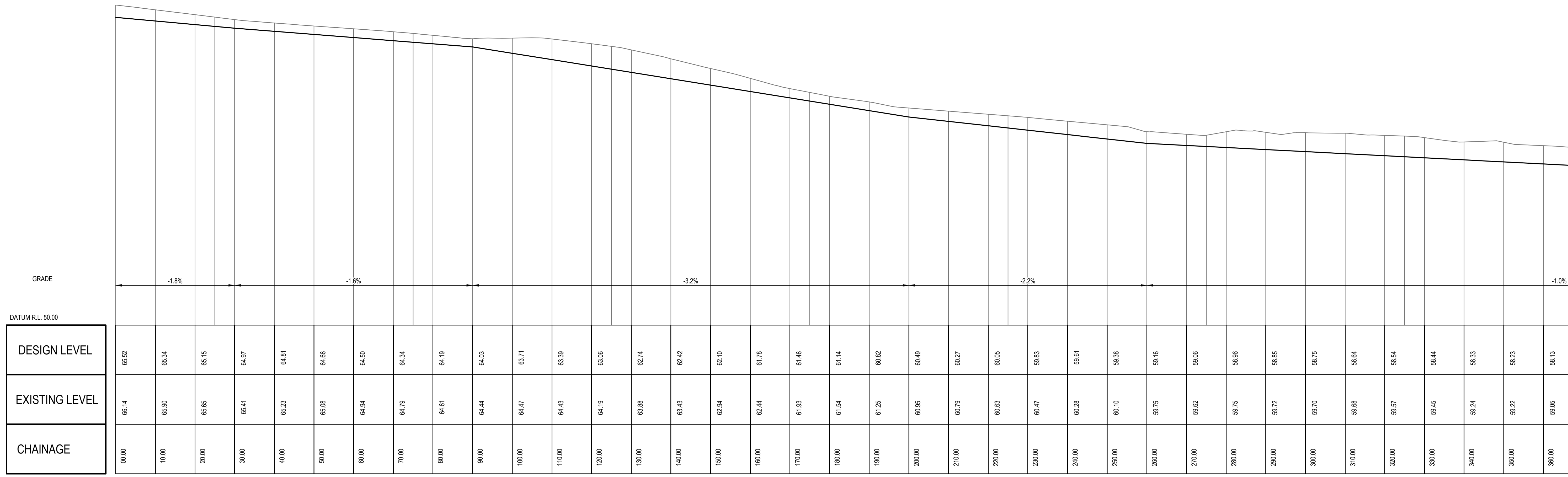


By: **Orion Consulting**
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Project: **DHL HORSLEY PARK**
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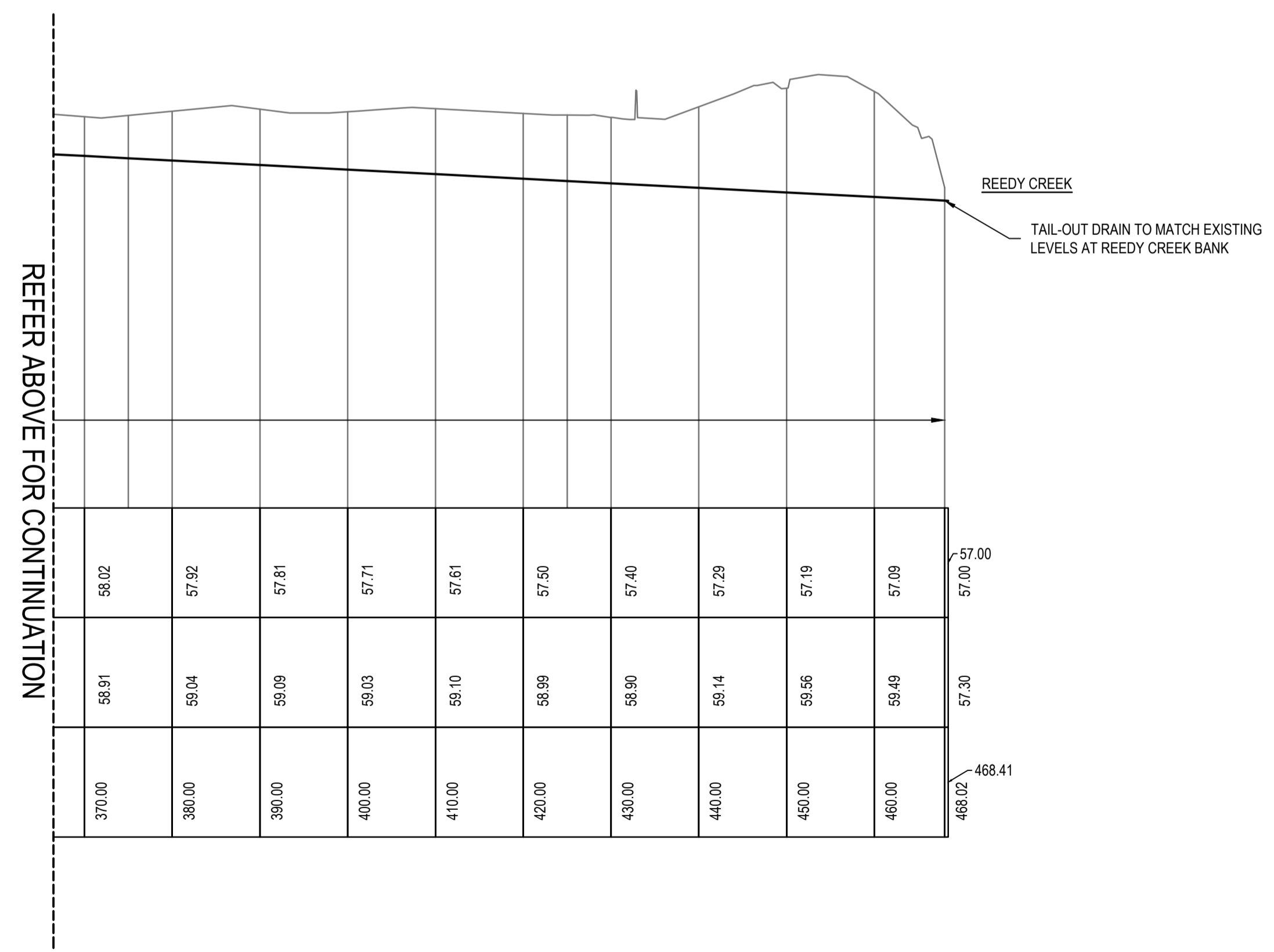
Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	405	A

REFER BELOW FOR CONTINUATION



TAIL-OUT DRAIN LONG-SECTION

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



REEDY CREEK
TAIL-OUT DRAIN TO MATCH EXISTING LEVELS AT REEDY CREEK BANK

REFER ABOVE FOR CONTINUATION

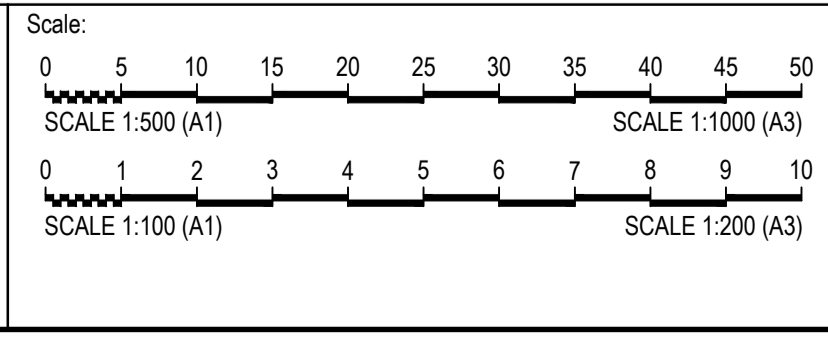
UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.



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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
A	DL	DL	MM	MM	11-02-22	ISSUED FOR DEVELOPMENT APPLICATION

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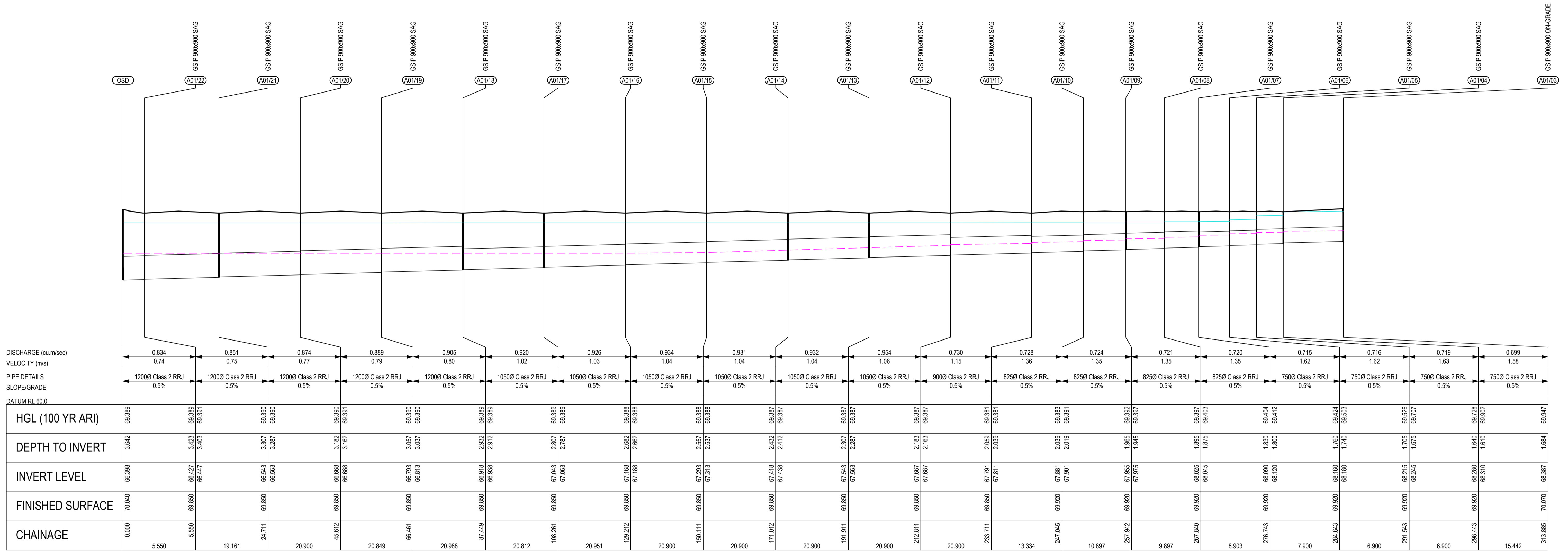
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Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	407	A

P:\2021\21-0262\21-0262-01-DA_Development_Application\21-0262-01-DA-407.dwg
 2022/02/11 10:52:00 AM
 User: orion\jason.dunlop
 Plot: 21-0262-01-DA-407.dwg

LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
100 YEAR HGL LEVEL	
5 YEAR HGL LEVEL	



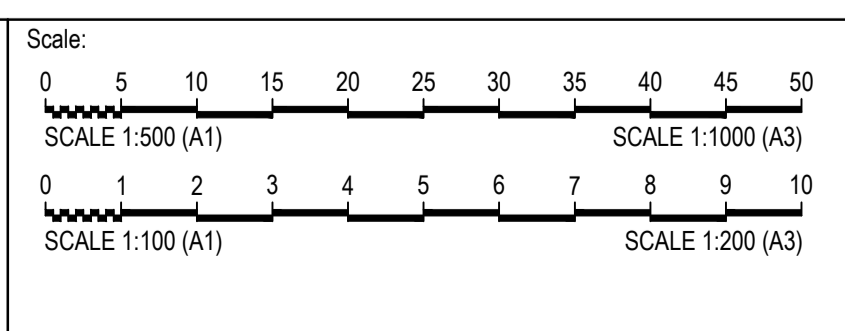
DRAINAGE LONGITUDINAL SECTION FOR LINE A01

SCALES: HORIZONTAL 1:500 VERTICAL 1:100

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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
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Project: **DHL HORSLEY PARK**
813 WALLGROVE ROAD,
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Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	410	A

LEGEND	
PROPOSED PIPE	
FINISHED DESIGN SURFACE LEVEL	
100 YEAR HGL LEVEL	
5 YEAR HGL LEVEL	



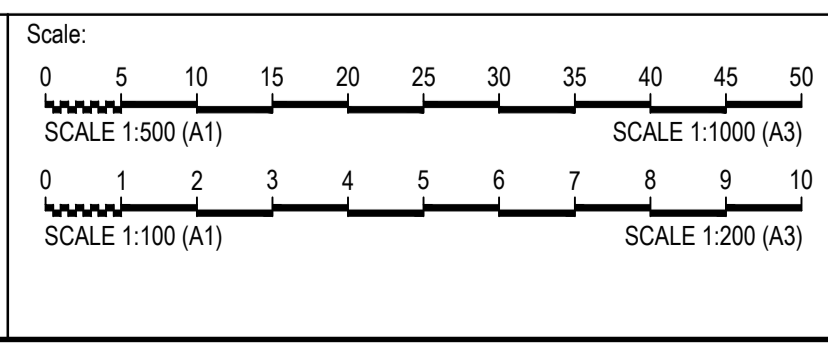
DISCHARGE (cu.m/sec)	0.102	0.057		
VELOCITY (m/s)	0.64	0.52		
PIPE DETAILS	4500 Class 2 RRJ	3750 Class 2 RRJ		
SLOPE/GRADE	0.5%	0.5%		
DATUM RL 60.0				
HGL (100 YR ARI)	70.107	70.101	70.101	70.104
DEPTH TO INVERT	1.654	1.510	1.480	1.363
INVERT LEVEL	68.417	68.540	68.570	68.687
FINISHED SURFACE	70.070	70.050		70.050
CHAINAGE	313.885	338.535		367.981
	24.650	23.447		

DRAINAGE LONGITUNDINAL SECTION FOR LINE A01
 SCALES: HORIZONTAL 1:500 VERTICAL 1:100

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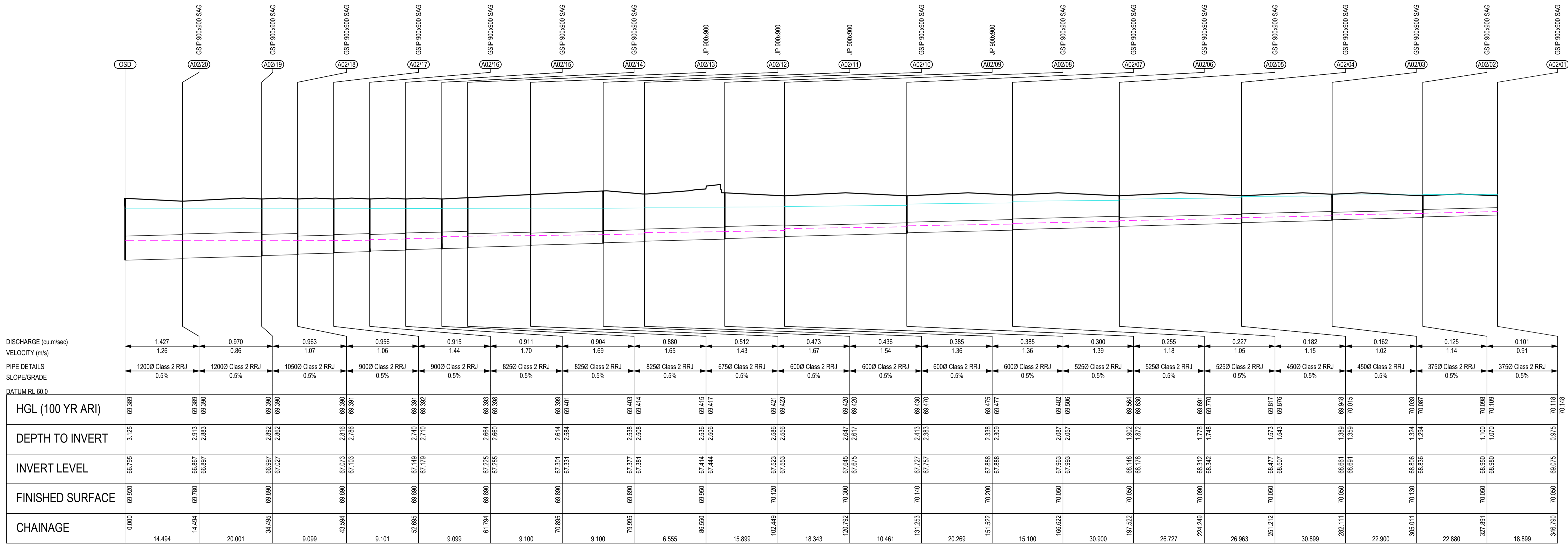


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Project: DHL HORSLEY PARK
 813 WALLGROVE ROAD,
 EASTERN CREEK, NSW

Title: STORMWATER DRAINAGE LONG SECTIONS SHEET 02 OF 03				
Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	411	A

LEGEND	
PROPOSED PIPE	
FINISHED DESIGN	
SURFACE LEVEL	
100 YEAR HGL LEVEL	
5 YEAR HGL LEVEL	

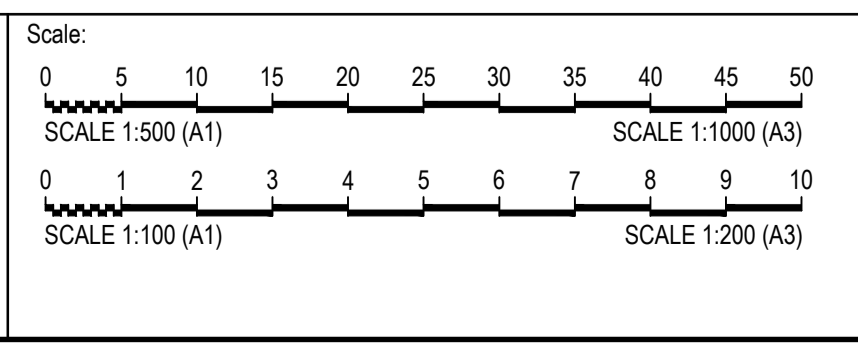


DRAINAGE LONGITUDINAL SECTION FOR LINE A02
 SCALES: HORIZONTAL 1:500 VERTICAL 1:100

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Project No.	Set No.	Milestone	Plan	Revision
21-0262	01	DA	412	A