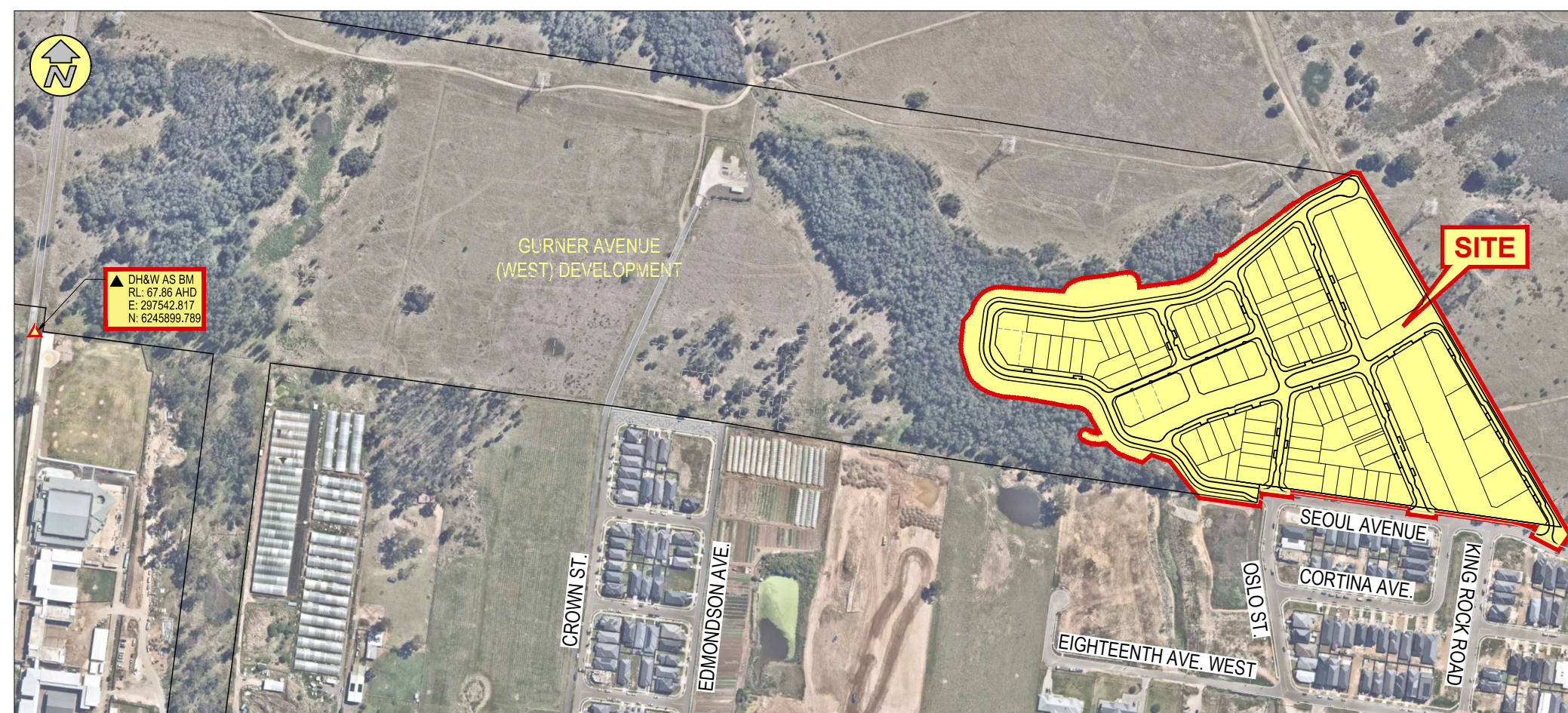


OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST)

ISSUED FOR DEVELOPMENT APPLICATION



LOCALITY PLAN
N.T.S.

LGA LIVERPOOL COUNCIL
LOT 184 D.P. 1237400

CLIENT:



DRAWING LIST	
No.	SHEET TITLE
GENERAL	
000	COVER SHEET
001	GENERAL ARRANGEMENT PLAN
002	SHEET LAYOUT PLAN
003	GENERAL NOTES & LEGEND
004	DEMOLITION PLAN
SEDIMENT & EROSION CONTROL	
101	SOIL & WATER MANAGEMENT PLAN - SHEET 01 OF 02
102	SOIL & WATER MANAGEMENT PLAN - SHEET 02 OF 02
SITE REGRADING	
201	SITE REGRADING PLAN - SHEET 01 OF 02
202	SITE REGRADING PLAN - SHEET 02 OF 02
203	SITE REGRADING SECTIONS - SHEET 01 OF 03
204	SITE REGRADING SECTIONS - SHEET 02 OF 03
205	SITE REGRADING SECTIONS - SHEET 03 OF 03
ENGINEERING PLANS	
301	ENGINEERING PLAN - SHEET 01 OF 02
302	ENGINEERING PLAN - SHEET 02 OF 02
ROAD LONGITUDINAL SECTIONS	
401	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.01
402	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.02, 03, 04 & 05
403	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.06, 08 & 09
404	LONGITUDINAL & TYPICAL SECTIONS - ROAD No.07
DRAINAGE	
801	EXTERNAL CATCHMENT PLAN
WATER QUALITY DETAILS	
850	BASINS No.1 & 3 DETAIL PLAN
851	BASIN No.2 DETAIL PLAN
852	LINEAR BIOSWALE DETAIL PLAN
853	LINEAR BIOSWALE LONGITUDINAL & TYPICAL CROSS SECTIONS

OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (EAST)



NEARMAP IMAGE SOURCED - 21/10/2021

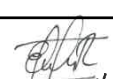
FIRST ISSUE	DESIGN		DRAWN		CHECK		APPRO.		DATE		AMENDMENT DETAILS
	AV	MZ	PS	EF	EF	EF	EF	EF	27/10/2021		
AMENDMENTS	1	RT	PS	GM/NF	RS	EF	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION			
	2	RT	MZ	GM	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT				

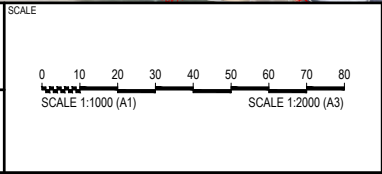
STATUS

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:

BY: ENRIQUE FRANCO
BE(Hons) MIEAust. CPEng NER

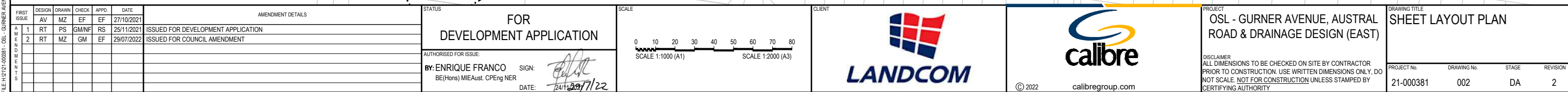
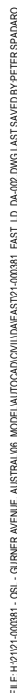
SIGN: 
DATE: 24/07/22



PROJECT
OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST)

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE				PROJECT No.				DRAWING No.				STAGE				REVISION			
GENERAL ARRANGEMENT PLAN				21-000381				001				DA				2			



GENERAL NOTES

GENERAL

- G1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE WESTERN SYDNEY STREET DESIGN GUIDELINES AND LIVERPOOL CITY COUNCIL ENGINEERING CONSTRUCTION SPECIFICATIONS AND TO THE REQUIREMENTS OF THE CERTIFYING AUTHORITY.
- G2. INSPECTIONS BY CERTIFYING AUTHORITY ARE REQUIRED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO CONTINUANCE OF ANY FUTURE WORK:
- (A) FOLLOWING INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES/MEASURES.
- (B) PRIOR TO BACKFILLING PIPELINES, SUBSOIL DRAINS AND DAMS.
- (C) PRIOR TO CASTING OF PITS AND OTHER CONCRETE STRUCTURES, INCLUDING KERB AND GUTTER BUT FOLLOWING PLACEMENT OF FOOTINGS, FORMWORK, AND REINFORCEMENT.
- (D) PRIOR TO PLACEMENT OF SUB BASE AND ALL SUBSEQUENT PAVEMENT LAYERS, A PROOF ROLLER TEST OF EACH PAVEMENT LAYER IS REQUIRED.
- (E) FORMWORKS PRIOR TO POURING CONCRETE IN PARKING AREA FOR FOOTPATH CROSSING AND OTHER ASSOCIATED WORK.
- (F) PRIOR TO BACKFILLING PUBLIC UTILITY CROSSINGS IN ROAD RESERVES.
- (G) FINAL INSPECTIONS AFTER ALL WORKS ARE COMPLETED AND 'WORKS AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL.
- G3. NO TREES ARE TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCIL'S LANDSCAPE COMPLIANCE OFFICER OR AS AUTHORISED BY DEVELOPMENT CONSENT.
- G4. MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
- G5. NO WORK IS TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.
- G6. VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- G7. ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
- G8. COUNCIL ENGINEERS HAVE DISCRETION TO VARY, AS CONSIDERED NECESSARY, THE ENGINEERING REQUIREMENTS IN RESPECT OF A PARTICULAR SUBDIVISION OR DEVELOPMENT HAVING REGARD TO THE SITE CONTEXT.

EARTHWORKS

- E1. 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.
- E2. 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.
- E3. THE SUITABLE QUALIFIED GEOTECHNICAL ENGINEER, SHALL HAVE A LEVEL 1 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.
- E4. 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.
- E5. ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
- E6. PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL 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.
- E7. 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.
- E8. A MINIMUM 1m WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS & OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED DURING THE CONSTRUCTION MAINTENANCE PERIOD.

CALIBRE GENERAL

- CG1. SURVEY SOURCED FROM:
-SURVEYOR: PROJECT SURVEYORS
-D.T.M.: D04494-DETAIL-REV B-GDA2020 SURVEY DATED 22/09/2021
-BOUNDARY: D04494-STAGING PLAN 27 OCT 2021.dwg DATED 27 OCT 2021
- CG2. CONTRACTOR IS TO ENSURE THAT ALL WORKS ASSOCIATED WITH PROPERTY BOUNDARIES ARE TO BE SET OUT OR VERIFIED BY A REGISTERED SURVEYOR
- CG3. PIPES UP TO 750Ø SHALL BE CONSTRUCTED WITH SPIGOT AND SOCKET RUBBER RING JOINTS AND BE OF FIBRE REINFORCED CONCRETE WHICH SHALL CONFORM RESPECTIVELY TO THE REQUIREMENTS OF AS 4139 AND AS 4058. WHERE FIBRE REINFORCED CONCRETE PIPES ARE TO BE USED, A PROPRIETARY COLLAR IS TO BE APPLIED OVER THE PIPE JOINTS.
- CG4. PIPES GREATER THAN 750Ø ARE TO BE CONSTRUCTED FROM SULPHATE RESISTANT CEMENT.

ROADWORKS

- R1. SUBGRADES AND SUB BASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
- R2. SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE).
- R3. 150 x 50 H.D. GALVANISED STEEL KERB OUTLETS TO BE PLACED IN ALL KERB TYPES ON LOW SIDE OF LOTS. PROVIDE SUITABLE ADAPTOR TO ALLOW CONNECTION OF 90mm DIAMETER STORMWATER PIPE.
- R4. LIPLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS AND WHERE REQUIRED BY COUNCIL.
- R5. SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING INTEGRAL ENERGY, TELSTRA AND SYDNEY WATER
- R6. PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS NOT TO DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750mm.
- R7. CONCRETE FOOTPATH CONSTRUCTION IS TO BE BONDED WITH COUNCIL PENDING COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.
- R8. ALL TEMPORARY ROADS MUST BE TEMPORARILY SEALED WITH A SINGLE COAT FLUSH SEAL.
- R9. ALL PERMANENT ROADS MUST BE SEALED WITH A SINGLE COAT FLUSH SEAL AND 50mm OF AC TO BE APPLIED IN TWO 25mm THICK LAYERS. THE FINAL AC LAYER IS TO BE AC 10 AND IS TO BE BONDED WITH COUNCIL AND PLACED FOLLOWING APPROVAL FROM COUNCIL.
- R10. SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE'. RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1906 'RETRO-REFLECTIVE MATERIALS AND DEVICES FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE PLAN APPROVED BY THE LOCAL TRAFFIC COMMITTEE.
- R11. ALL LOT AND HOUSE NUMBERS MUST BE STENCILLED ON KERB FACE.
- R12. STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE CONTRACTOR.

STORMWATER

- S1. ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED.
- S2. ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S3. DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.
- S4. ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.
- S5. ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2-METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
- S6. CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S7. ALL INTER-ALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S8. ALL INTER-ALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS MUST BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
- S9. INTER-ALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTER-ALLOTMENT DRAINAGE LINES.
- S10. 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.
- S11. ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP AND PMF.
- S12. ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
- S13. PIT LINTELS ARE TO BE STENCILLED WITH APPLICABLE DISTINCTION STENCIL AVAILABLE FROM COUNCIL.
- S14. CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY THE APPROVED PLANS OR THE PRINCIPAL CERTIFYING AUTHORITY.
- S15. SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.

DIGITAL MODELS CREATED BY CALIBRE UNDER THIS COMMISSION ARE CREATED FOR THE PURPOSE OF THE PREPARATION OF DRAWINGS AND ESTIMATES OF QUANTITIES. INFORMATION CONTAINED IN THE DRAWINGS TAKES PRECEDENCE OVER THE DIGITAL MODEL UPON WHICH IT WAS BASED. USE OF DIGITAL MODELS, CREATED BY CALIBRE, BY OTHER PARTIES TO SET OUT WORKS OR FOR OTHER REASONS IS DONE ENTIRELY AT THE RISK OF THE PARTY SO USING THE DIGITAL MODEL

LEGEND

DESCRIPTION	PROPOSED	EXISTING	FUTURE
STORMWATER PIPELINE			
STORMWATER DRAINAGE PITS			
DRAINAGE LINE No. 3 DRAINAGE PIT No. 10			
CONCRETE HEADWALL			
SUBSOIL DRAIN			
150mm KERB AND GUTTER			
ROLL KERB AND GUTTER			
KERB ONLY			
EDGE STRIP			
MOUNTABLE KERB			
DISH CROSSING			
VEHICULAR CROSSING			
PEDESTRIAN RAMP			
EDGE OF BITUMEN			
ROAD PAVEMENT			
BENCHMARK			
BATTERS			
CONCRETE PATHWAY			
CONTOURS			
SITE REGRADING AREA			
SERVICE LINES SEWER, GAS, WATER, ELECTRICITY, RECYCLED WATER			
COMMUNICATION LINES TELSTRA, FIBRE OPTIC, NBN			
OVER HEAD LINES AND POLES			
SERVICE PITS TELECOM PIT, ACCESS CHAMBER, HYDRANT, STOP VALVE, AIR VALVE			
LIMIT OF ROAD CONSTRUCTION			
STAGE BOUNDARY			
FENCE POST AND RAIL FENCE SECURITY FENCE			
LOT NUMBERS			
TREES TO RETAIN WITHIN SITE TREES TO REMOVED WITHIN SITE			
RETAINING WALL			
ROCK WALL			
ROOF WATER OUTLET TO KERB			
ROOF WATER OUTLET TO BACK OF PIT			

FILE: H2121-000381 - OSL - GURNER AVENUE, AUSTRAL MODELAUTOCADCONVERSION.DWG EAST LD DA-003.DWG LAST SAVED BY PETER SPADANO

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
1	RT	PS	GM/NF	RS	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION
2	RT	MZ	GM	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT

FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:	
BY: ENRIQUE FRANCO BE(Hons) MIEAust. CPEng NER	SIGN: DATE: 24/07/22

SCALE

CLIENT

© 2022 calibregroup.com

PROJECT
OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST)
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE GENERAL NOTES & LEGEND			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	003	DA	2

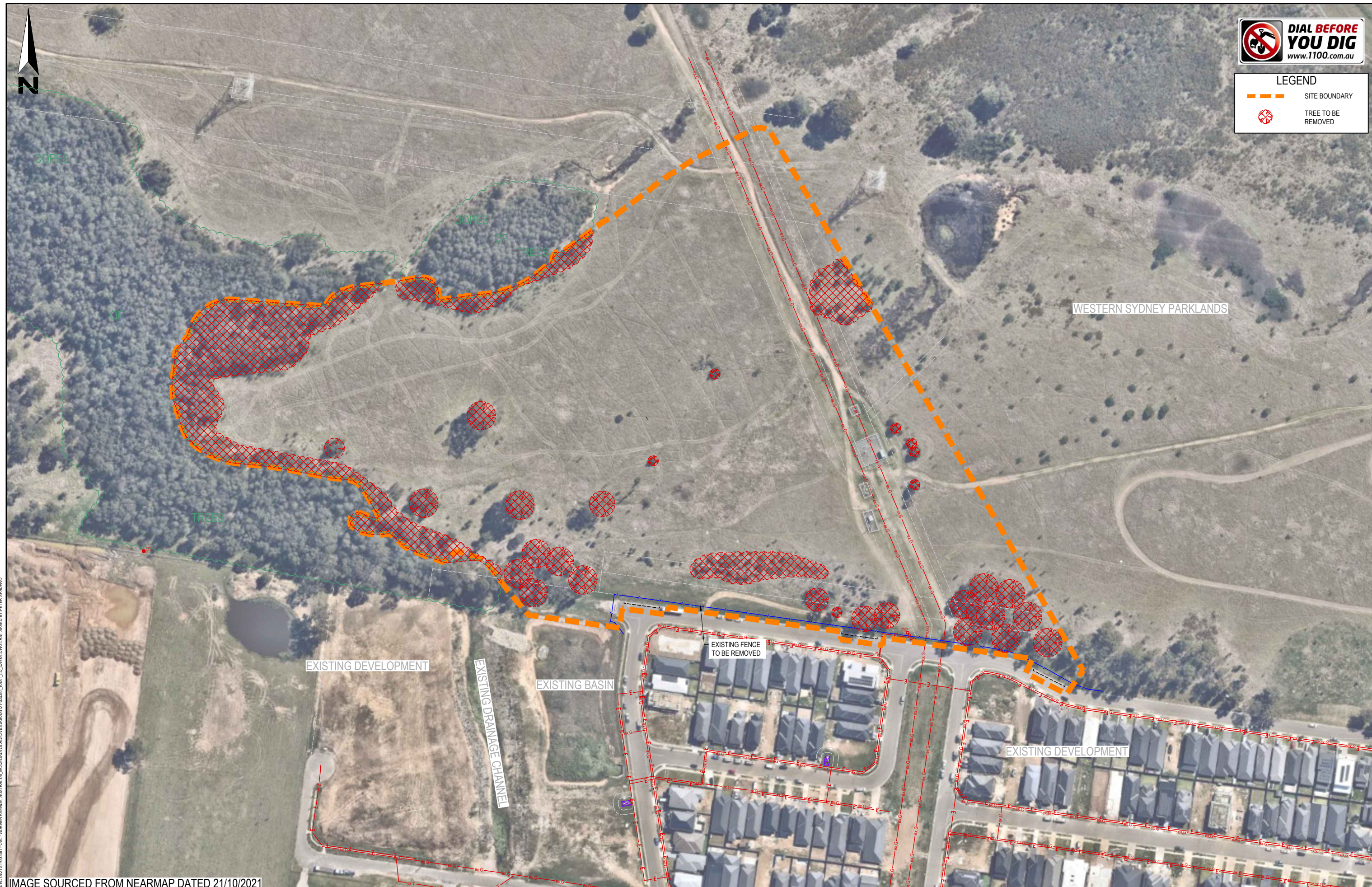
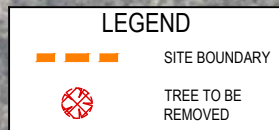
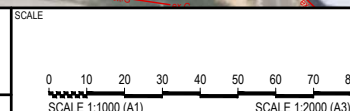


IMAGE SOURCED FROM NEARMAP DATED 21/10/2021

	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
A M E N D M E N T S	1	AV	MZ	EF	EF	27/10/2021	
	1	RT	PS	GMINF	RS	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION
	2	RT	MZ	GM	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT

STATUS	FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:	 BY: ENRIQUE FRANCO SIGNED: _____ BE(Hons) MIEAust. CPENG NER DATE: 24/11/2017	



CLIENT



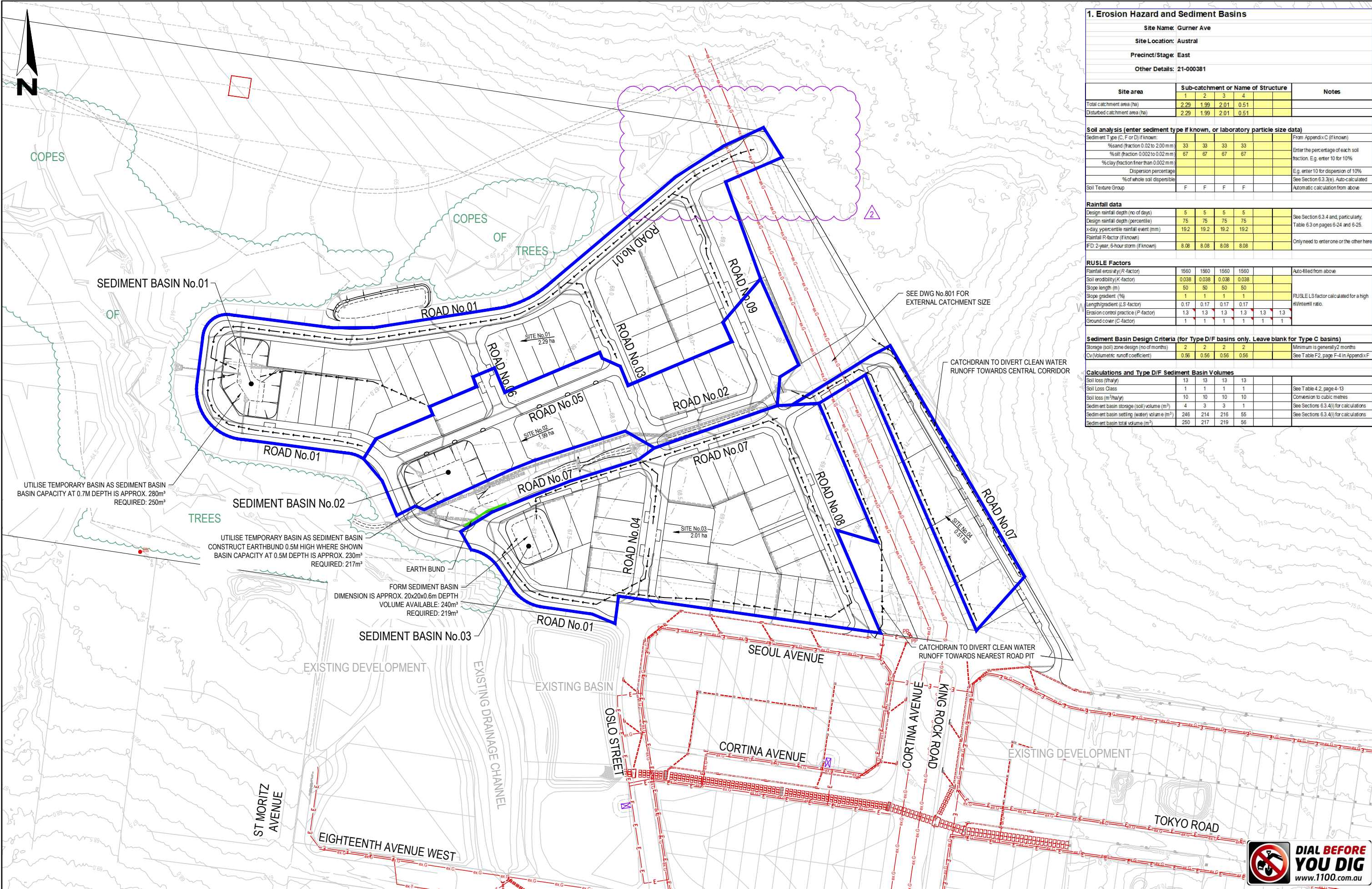


© 2022 calibregroup.com

PROJECT
OSL - GURNER AVENUE, AUSTRALIA
ROAD & DRAINAGE DESIGN (EAST)

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

DRAWING TITLE			
DEMOLITION PLAN			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	004	DA	2



1. Erosion Hazard and Sediment Basins						
Site Name: Gurner Ave						
Site Location: Austral						
Precinct/Stage: East						
Other Details: 21-000381						
Site area	Sub-catchment or Name of Structure				Notes	
Total catchment area (ha)	2.29	1.99	2.01	0.51		
Disturbed catchment area (ha)	2.29	1.99	2.01	0.51		
Soil analysis (enter sediment type if known, or laboratory particle size data)						
Sediment Type (C, F or D) if known:						
%sand (fraction 0.02 to 2.00 mm)	33	33	33	33		From Appendix C (if known)
%silt (fraction 0.002 to 0.02 mm)	67	67	67	67		Enter the percentage of each soil fraction. E.g. enter 10 for 10%
%clay (fraction finer than 0.002 mm)						E.g. enter 10 for dispersion of 10%
Dispersion percentage						See Section 6.3.3(e). Auto-calculated
%of whole soil dispersible						Automatic calculation from above
Soil Texture Group	F	F	F	F		
Rainfall data						
Design rainfall depth (no. of days)	5	5	5	5		See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25.
Design rainfall depth (percentage)	75	75	75	75		
x-day percentile rainfall event (mm)	19.2	19.2	19.2	19.2		
Rainfall R-factor (if known)						Only need to enter one or the other here
FD 2-year, 6-hour storm (if known)	8.08	8.08	8.08	8.08		
RUSLE Factors						
Rainfall erosivity (R factor)	1560	1560	1560	1560		Auto-filled from above
Soil erodibility (K factor)	0.038	0.038	0.038	0.038		
Slope length (m)	50	50	50	50		RUSLE LS factor calculated for a high river/interim ratio.
Slope gradient (%)	1	1	1	1		
Length/gradient (LS factor)	0.17	0.17	0.17	0.17		
Erosion control practice (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	2		Minimum is generally 2 months
Cv (Volumetric runoff coefficient)	0.56	0.56	0.56	0.56		See Table F2, page F-4 in Appendix F
Calculations and Type D/F Sediment Basin Volumes						
Soil loss (t/ha/yr)	13	13	13	13		See Table 4.2, page 4-13
Soil Loss Class	1	1	1	1		Conversion to cubic metres
Soil loss (m³/ha/yr)	10	10	10	10		See Sections 6.3.4(i) for calculations
Sediment basin storage (soil) volume (m³)	4	3	3	1		See Sections 6.3.4(i) for calculations
Sediment basin settling (water) volume (m³)	246	214	216	55		
Sediment basin total volume (m³)	250	217	219	56		

FILE: H2121-000381 - OSL - GURNER AVENUE, AUSTRALIA, MODEL: ADOCAD/CON/PLANS/STY-000381.EAST.DWG, LAST SAVED BY: JED SWEENEY

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE
1	RT	PS	GM/NF	RS	27/10/2021
2	RT	MZ	GM	EF	29/07/2022

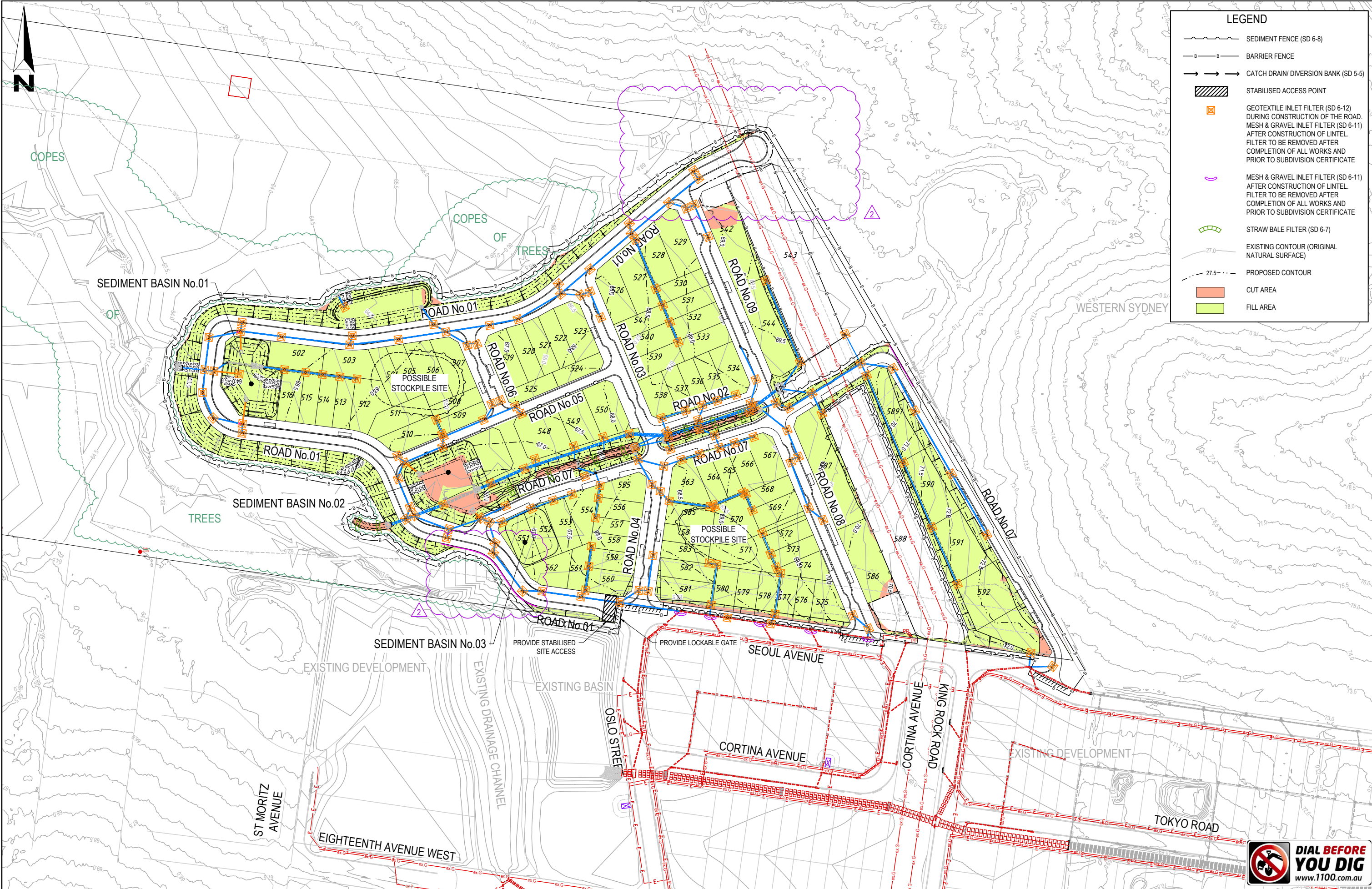
AMENDMENT	DATE
1	27/10/2021
2	29/07/2022

STATUS	FOR DEVELOPMENT APPLICATION
AUTHORISED FOR ISSUE:	BY: ENRIQUE FRANCO BE(Hons) MIEAust. CPEng NER
SIGN:	
DATE:	24/07/22

SCALE	0 10 20 30 40 50 60 70 80
SCALE 1:1000 (A1)	SCALE 1:2000 (A3)

CLIENT	
PROJECT	OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST)
DRAWING TITLE	SOIL & WATER MANAGEMENT PLAN - SHEET 01 OF 02
DISCLAIMER	ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

PROJECT No.	21-000381
DRAWING No.	101
STAGE	DA
REVISION	2



LEGEND

SEDIMENT FENCE (SD 6-8)

BARRIER FENCE

CATCH DRAIN/ DIVERSION BANK (SD 5-5)

STABILISED ACCESS POINT

GEOTEXTILE INLET FILTER (SD 6-12)
DURING CONSTRUCTION OF THE ROAD.
MESH & GRAVEL INLET FILTER (SD 6-11)
AFTER CONSTRUCTION OF LINTEL.
FILTER TO BE REMOVED AFTER
COMPLETION OF ALL WORKS AND
PRIOR TO SUBDIVISION CERTIFICATE

MESH & GRAVEL INLET FILTER (SD 6-11)
AFTER CONSTRUCTION OF LINTEL.
FILTER TO BE REMOVED AFTER
COMPLETION OF ALL WORKS AND
PRIOR TO SUBDIVISION CERTIFICATE

STRAW BALE FILTER (SD 6-7)

EXISTING CONTOUR (ORIGINAL
NATURAL SURFACE)

PROPOSED CONTOUR

CUT AREA

FILL AREA

FILE: H2121-00031 - OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST) - L.D. DA-102.DWG LAST SAVED BY: JED SWEENEY

	FIRST	DESIGN	DRAWN	CHECK	APPD.	DATE	
1	AV	MZ	EF	EF	27/10/2021		
2	RT	PS	GM/NF	RS	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION	
3	RT	MZ	GM	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT	

AMENDMENT DETAILS

STATUS

FOR
DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO
BE(Hons) MIEAust. CPEng NER
SIGN:
DATE: 24/11/22

SCALE

0 10 20 30 40 50 60 70 80
SCALE 1:1000 (A1) SCALE 1:2000 (A3)

CLIENT

LANDCOM

calibre

© 2022 calibregroup.com

PROJECT

OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (EAST)

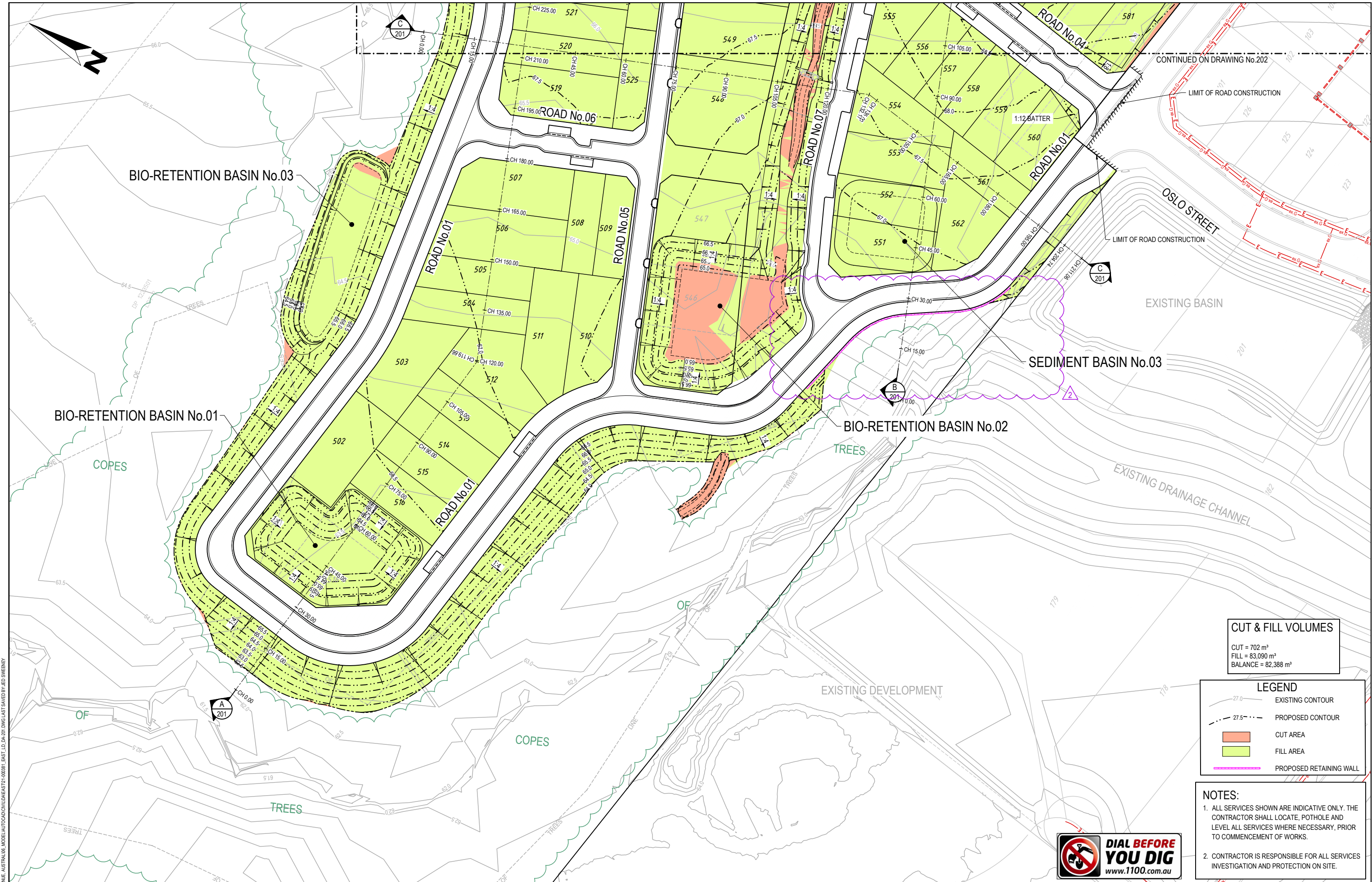
DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

DRAWING TITLE

SOIL & WATER MANAGEMENT
PLAN - SHEET 02 OF 02

PROJECT No. 21-000381
DRAWING No. 102
STAGE DA
REVISION 2





CUT & FILL VOLUMES

CUT = 702 m³
FILL = 83,090 m³
BALANCE = 82,388 m³

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CUT AREA
- FILL AREA
- PROPOSED RETAINING WALL

NOTES:

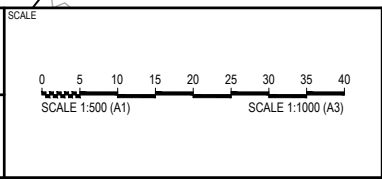
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. THE CONTRACTOR SHALL LOCATE, POTHOLE AND LEVEL ALL SERVICES WHERE NECESSARY, PRIOR TO COMMENCEMENT OF WORKS.
- CONTRACTOR IS RESPONSIBLE FOR ALL SERVICES INVESTIGATION AND PROTECTION ON SITE.



FILE: H2121-000381 - OSL - GURNER AVENUE, AUSTRALIA, MODEL: AUTO CAD, CONTOUR: 0.5M, EAST, LD, DA, 201, DWG, LAST SAVED BY: JED SWENEY

AMENDMENT DETAILS						
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	
1	AV	MZ	EF	EF	27/10/2021	
2	RT	PS	GM/NF	RS	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION
3	RT	MZ	GM	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT

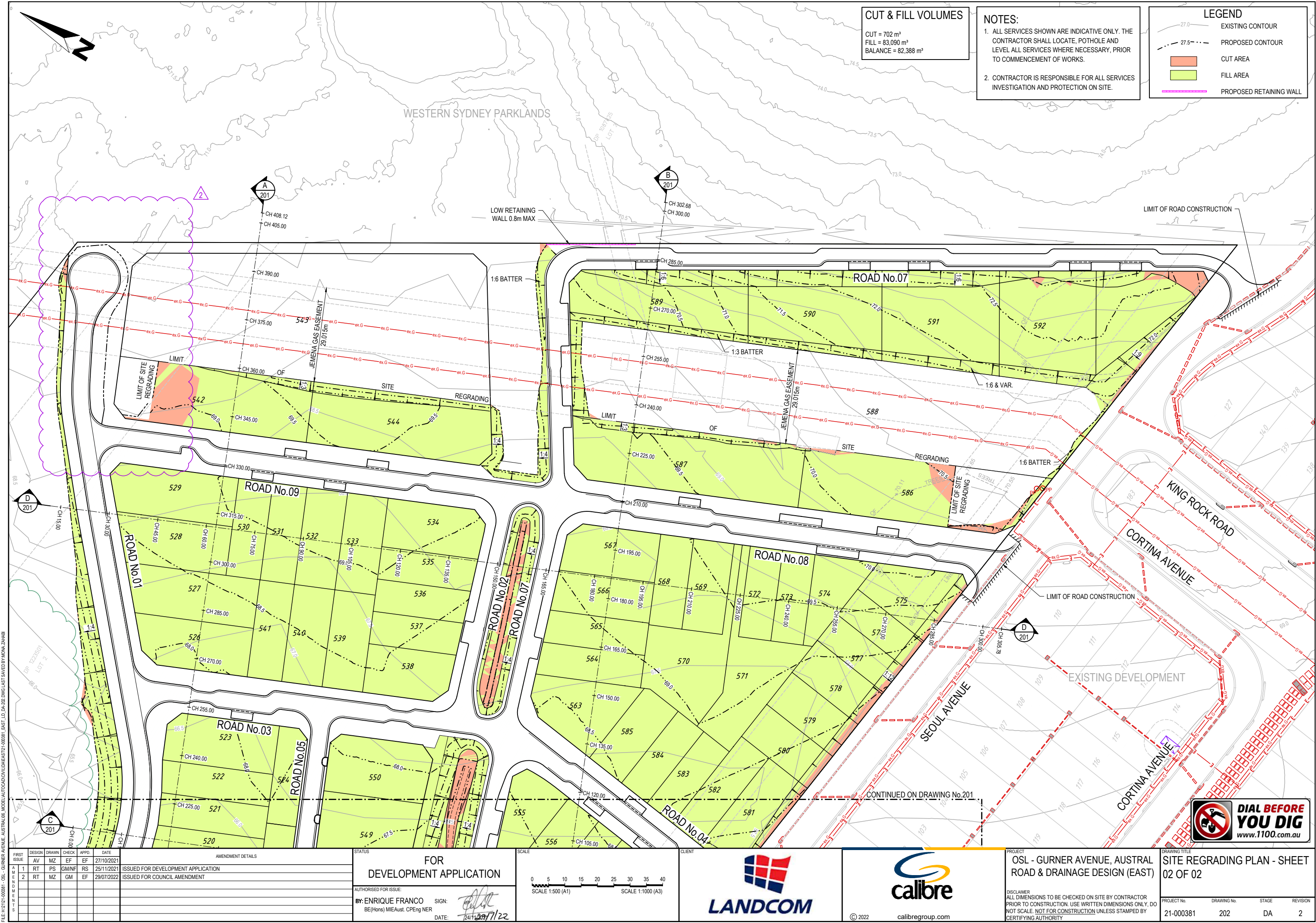
STATUS	
FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:	
BY: ENRIQUE FRANCO	SIGN:
BE(Hons) MIEAust. CPEng NER	
DATE: 24/11/22	



PROJECT
OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (EAST)

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

DRAWING TITLE			
SITE REGRADING PLAN - SHEET			
01 OF 02			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	201	DA	2



FILE: H2121-00031 - OSL - GURNER AVENUE, AUSTRALIA - MODEL: LAYOUT/CONSTRUCTION/STATION/00031 - EAST - LD - DA - 202 - DNG - LAST SAVED BY: MONA ZAMBA

AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE
1	AV	MZ	EF	EF	27/10/2021
2	RT	PS	GM/NF	RS	25/11/2021
3	RT	MZ	GM	EF	29/07/2022

STATUS

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO
BE(Hons) MIEAust. CPEng NER

SIGN:

DATE: 24/11/22

SCALE

0 5 10 15 20 25 30 35 40

SCALE 1:500 (A1)

SCALE 1:1000 (A3)

CLIENT

LANDCOM

calibre

© 2022

calibregroup.com

PROJECT

OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST)

DISCLAIMER

ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE

SITE REGRADING PLAN - SHEET 02 OF 02

PROJECT No.

21-000381

DRAWING No.

202

STAGE

DA

REVISION

2

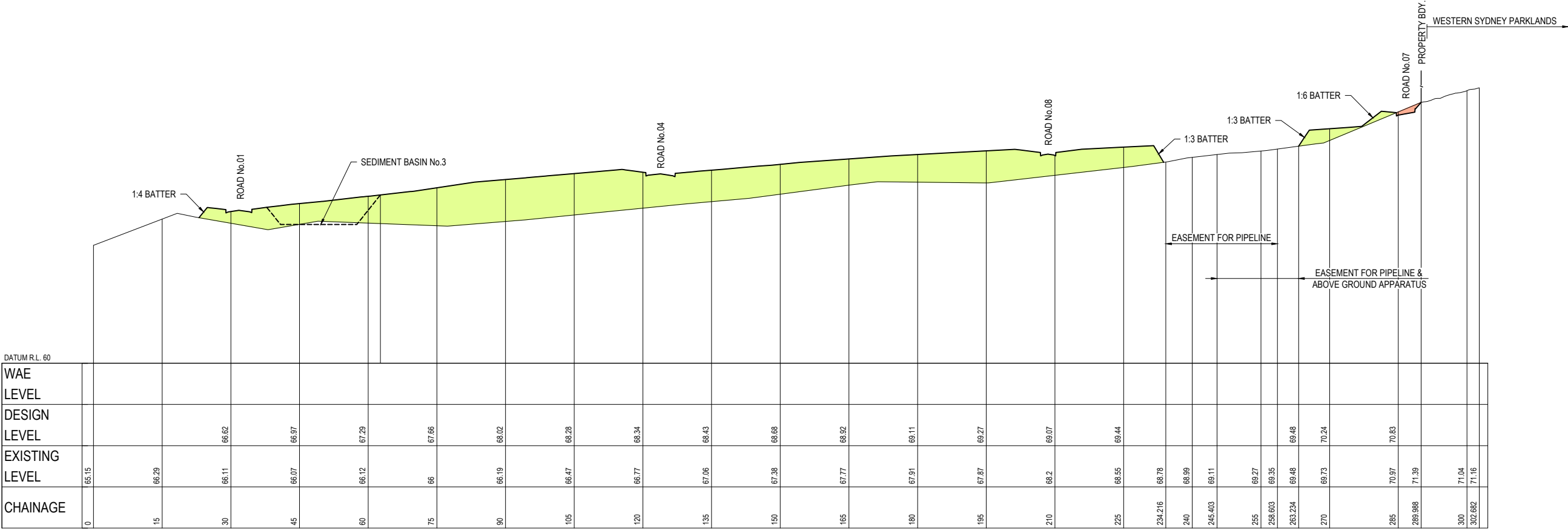
LEGEND

EXISTING LEVEL

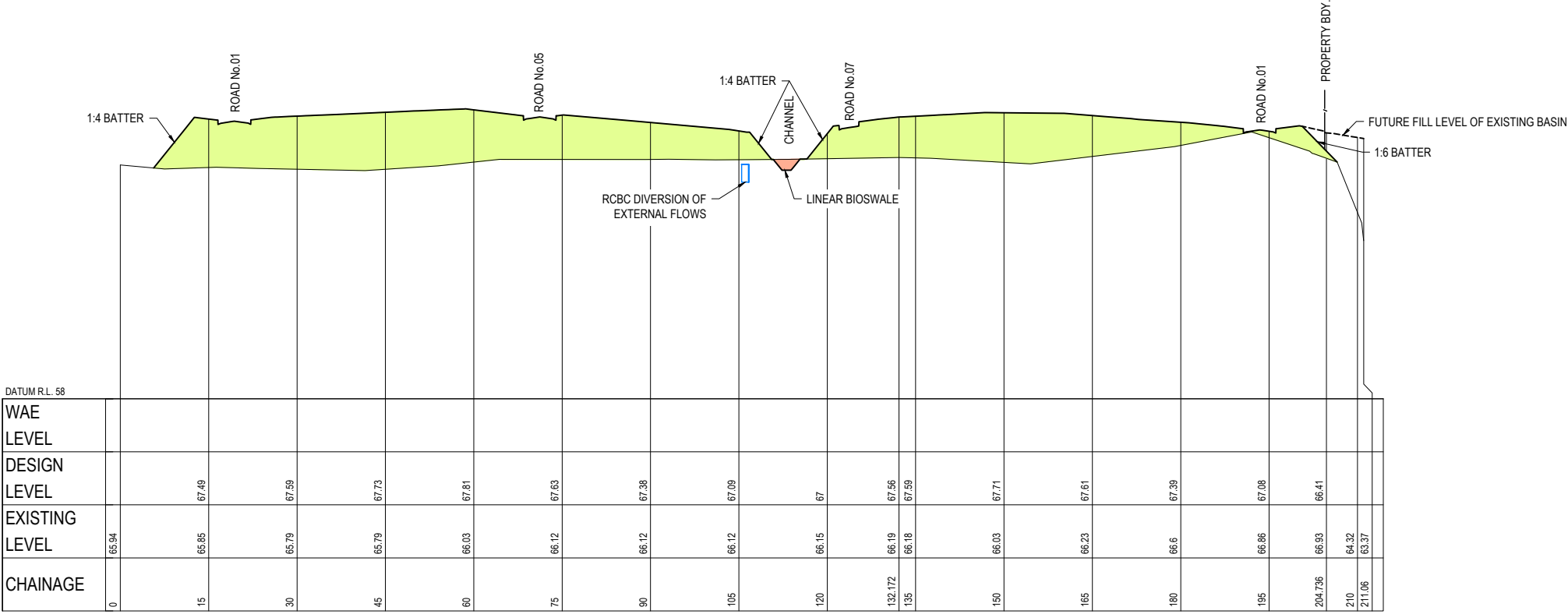
DESIGN LEVEL

CUT AREA

FILL AREA



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



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

FILE: H:\21-000381 - OS - GURNER AVENUE, AUSTRALIA\3. MODEL\A\TO\CON\CON\H\NEAST\21-000381 - EAST.LD.DWG DATE: 24/07/2022

FIRST
ISSUE

DESIGN

DRAWN

CHECK

APPD.

DATE

1

RT

PS

IGM/NF

RS

25/10/2021

2

RT

MZ

GM

EF

29/07/2022

AMENDMENT DETAILS

ISSUED FOR DEVELOPMENT APPLICATION

ISSUED FOR COUNCIL AMENDMENT

STATUS

FOR
DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO
BE(Hons) MIEAust. CPEng NER
DATE: 24/07/22

SIGN:

SCALE

0 5 10 15 20 25 30 35 40
SCALE 1:500 (A1)
0 1 2 3 4 5 6 7 8
SCALE 1:100 (A1)

SCALE 1:1000 (A3)
SCALE 1:200 (A3)

CLIENT

LANDCOM

calibre

calibregroup.com

PROJECT

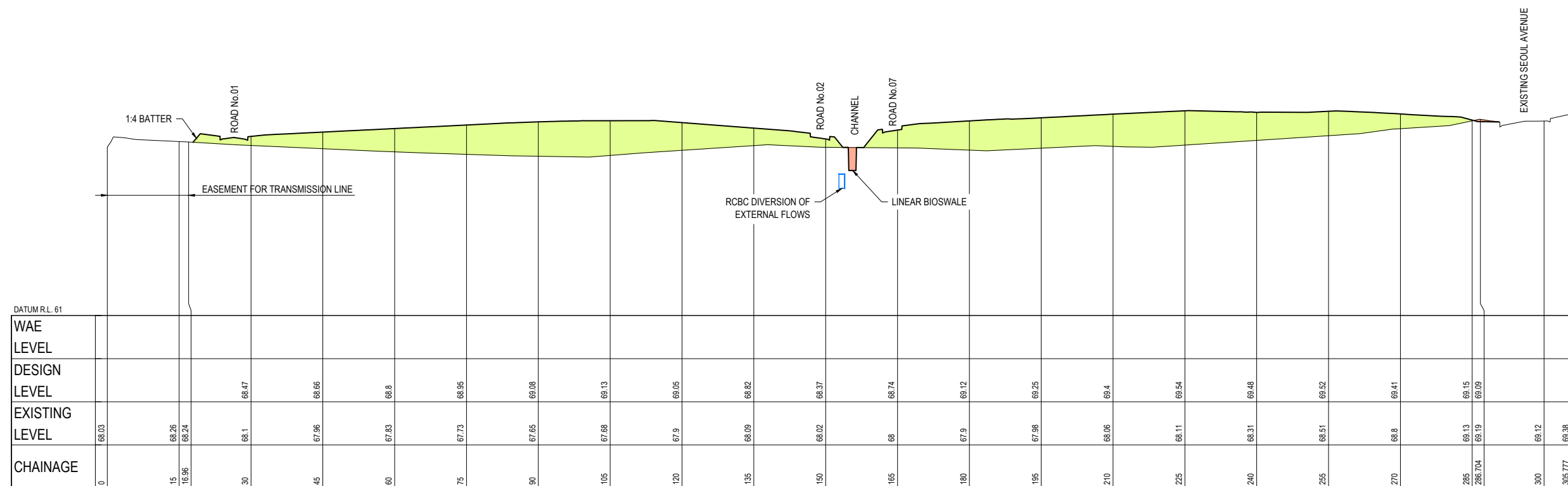
OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (EAST)

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

DRAWING TITLE

SITE REGRADING SECTIONS -
SHEET 02 OF 03

PROJECT No. 21-000381
DRAWING No. 204
STAGE DA
REVISION 2

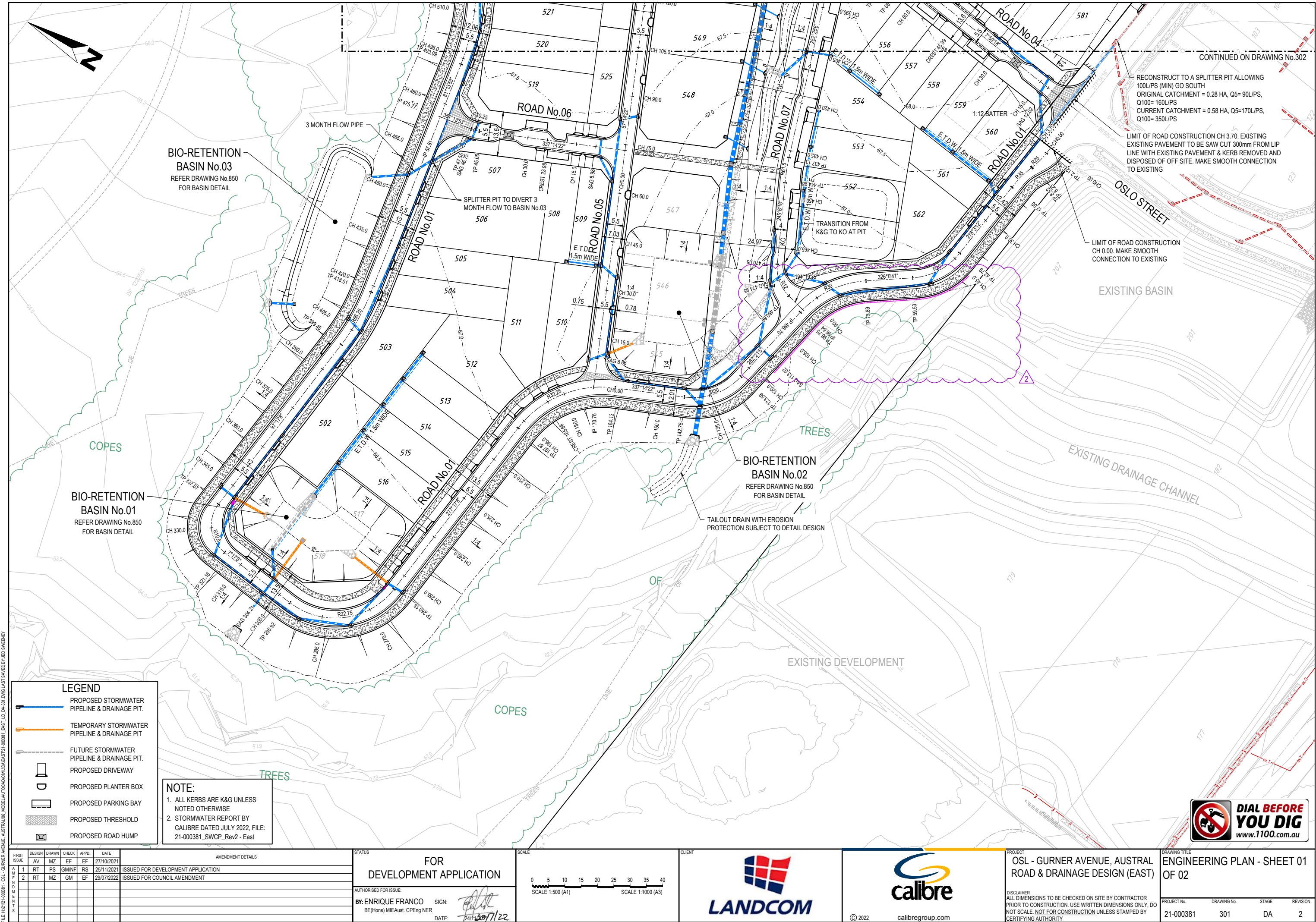


SECTION D
201

LEGEND

	EXISTING LEVEL
	DESIGN LEVEL
	CUT AREA
	FILL AREA

[illegible]



FILE: H:\21-000381 - OSLO - GURNER AVENUE, AUSTRALIA - MODEL\ROAD\CONSTRUCTION\21-000381 - EAST.DWG LAST SAVED BY JED SWEENEY

REV	DATE	BY	CHKD	APPD	DATE	REASON
1	27/10/2021	RT	PS	GM/NF	RS	ISSUED FOR DEVELOPMENT APPLICATION
2	29/07/2022	RT	MZ	GM	EF	ISSUED FOR COUNCIL AMENDMENT

FOR DEVELOPMENT APPLICATION

STATUS: **FOR DEVELOPMENT APPLICATION**

AUTHORISED FOR ISSUE: **BY: ENRIQUE FRANCO** SIGN: *[Signature]*
BE(Hons) MIEAust. CPEng NER
DATE: **24/10/22**

SCALE: **1:500 (A1)** **1:1000 (A3)**

0 5 10 15 20 25 30 35 40

CLIENT: **LANDCOM**

calibre
© 2022 calibregroup.com

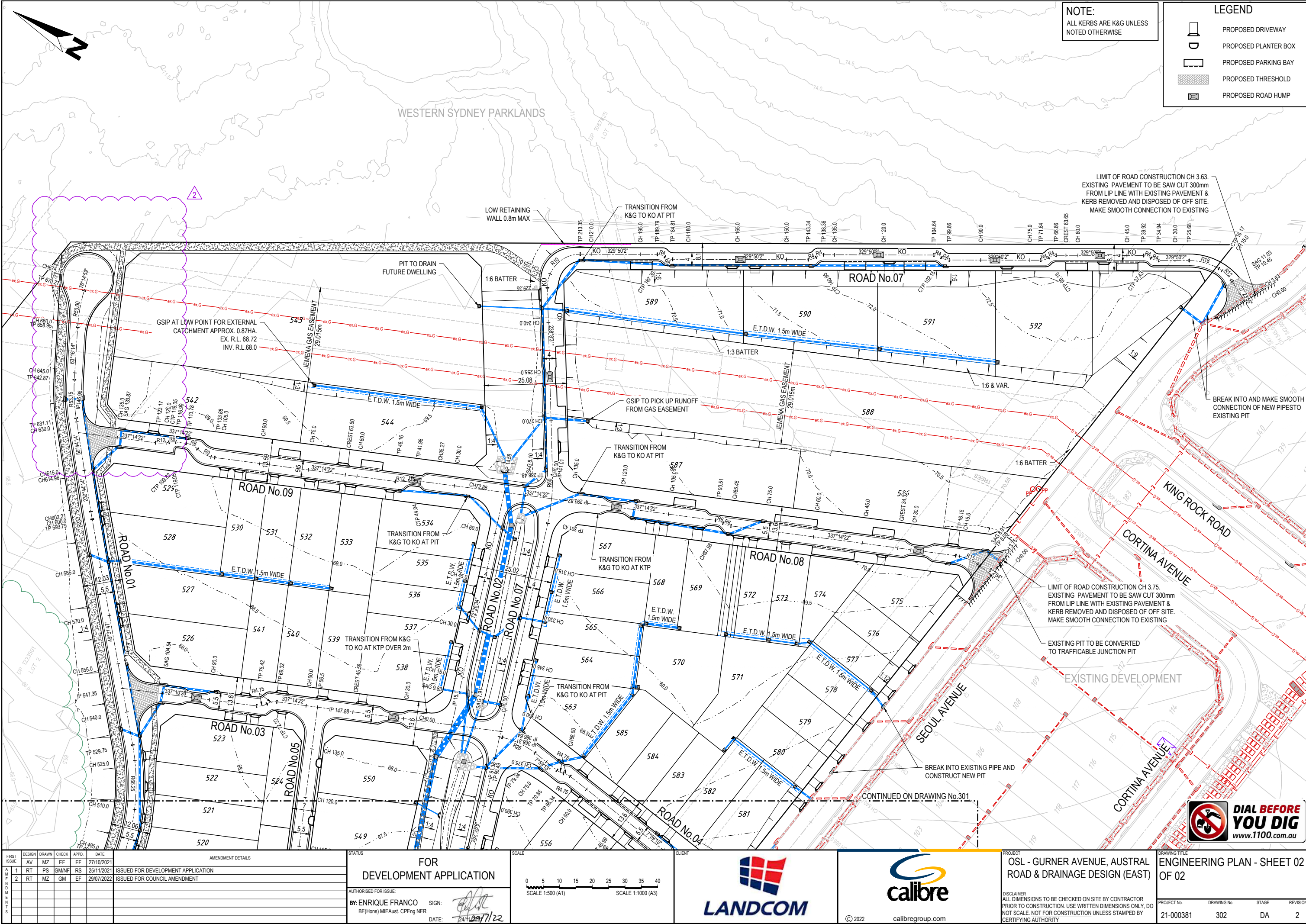
PROJECT: **OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST)**

DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE: **ENGINEERING PLAN - SHEET 01 OF 02**

PROJECT No: **21-000381** DRAWING No: **301** STAGE: **DA** REVISION: **2**





LEGEND

	PROPOSED DRIVEWAY
	PROPOSED PLANTER BOX
	PROPOSED PARKING BAY
	PROPOSED THRESHOLD
	PROPOSED ROAD HUMPH

BREAK INTO AND MAKE SMOOTH
CONNECTION OF NEW PIPESTO
EXISTING PIT

EXISTING PIT TO BE CONVERTED
TO TRAFFICABLE JUNCTION PIT

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

[illegible]

STATUS	FOR DEVELOPMENT APPLICATION	SCALE	
AUTHORISED FOR ISSUE	BY: ENRIQUE FRANCO BE(Hons) MIEAust. CPEng NER	SIGN:  DATE: 24/12/2017	

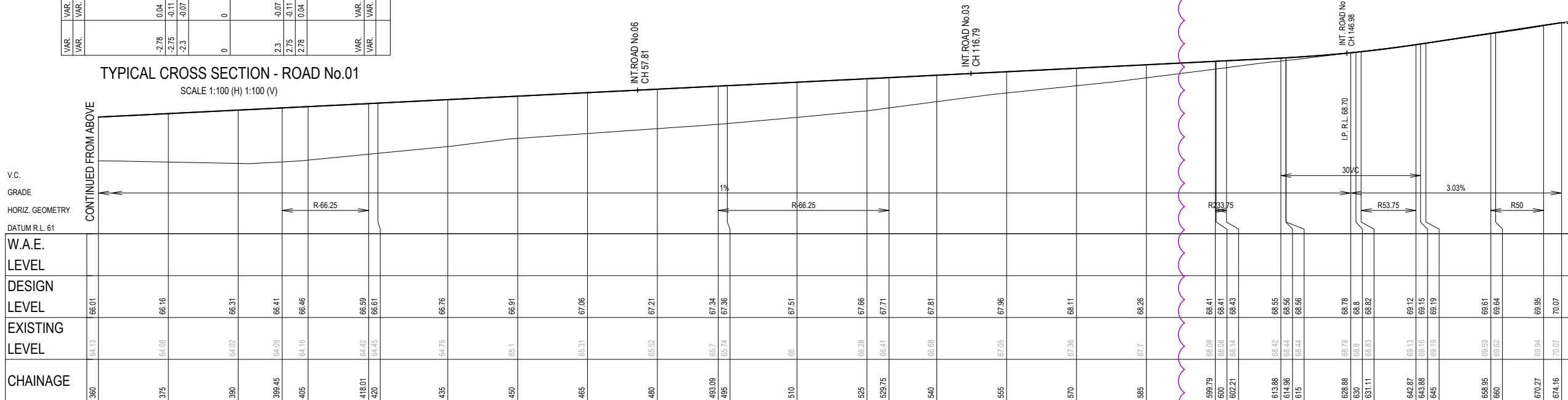
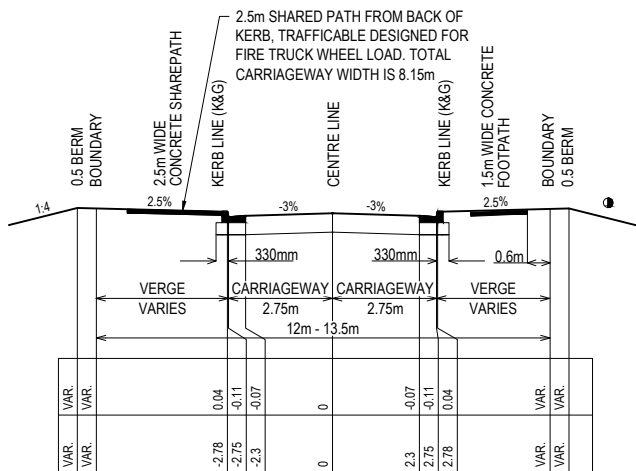
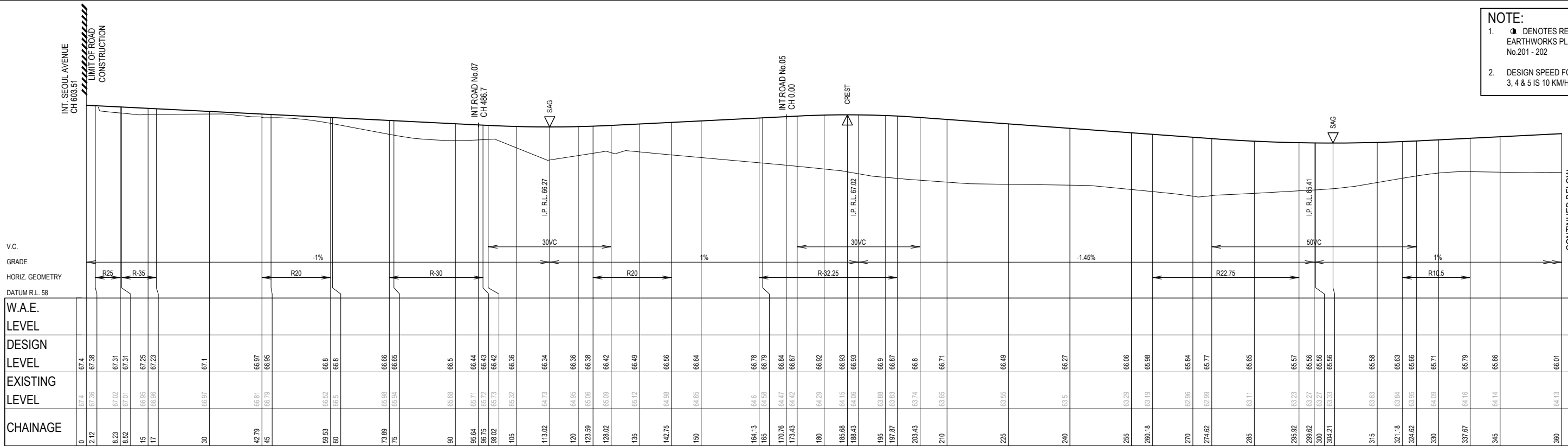


PROJECT
OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (EAST)

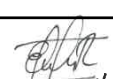
DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

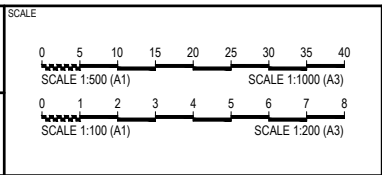
DRAWING TITLE			
ENGINEERING PLAN - SHEET 02 OF 02			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	302	DA	2

FILE: H:\21-000381 - OSL - GURNER AVENUE, AUSTRALIA\3. MODEL\A\TOD\CON\LONG\SECT\21-000381_EAST_LD_DA-01.DWG LAST SAVED BY: JED SWEENEY



FIRST ISSUE		DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	
1	RT	PS	GM/NF	RS	EF	27/10/2021	ISSUED FOR DEVELOPMENT APPLICATION	
2	RT	MZ	GM	EF	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT	

STATUS		FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:		BY: ENRIQUE FRANCO	
BE(Hons) MIEAust. CPEng NER		SIGN: 	
DATE: 24/07/22		DATE: 24/07/22	



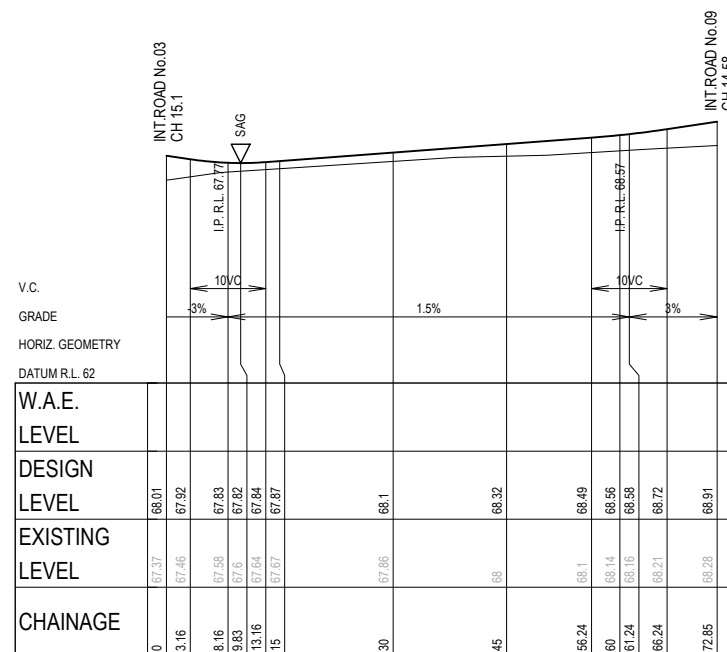
PROJECT

OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST)

DISCLAIMER

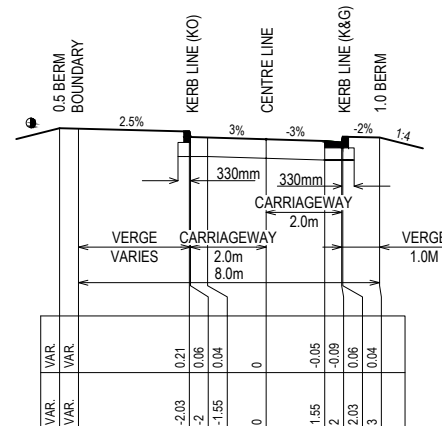
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE			
LONGITUDINAL & TYPICAL SECTIONS - ROAD No.01			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	401	DA	2



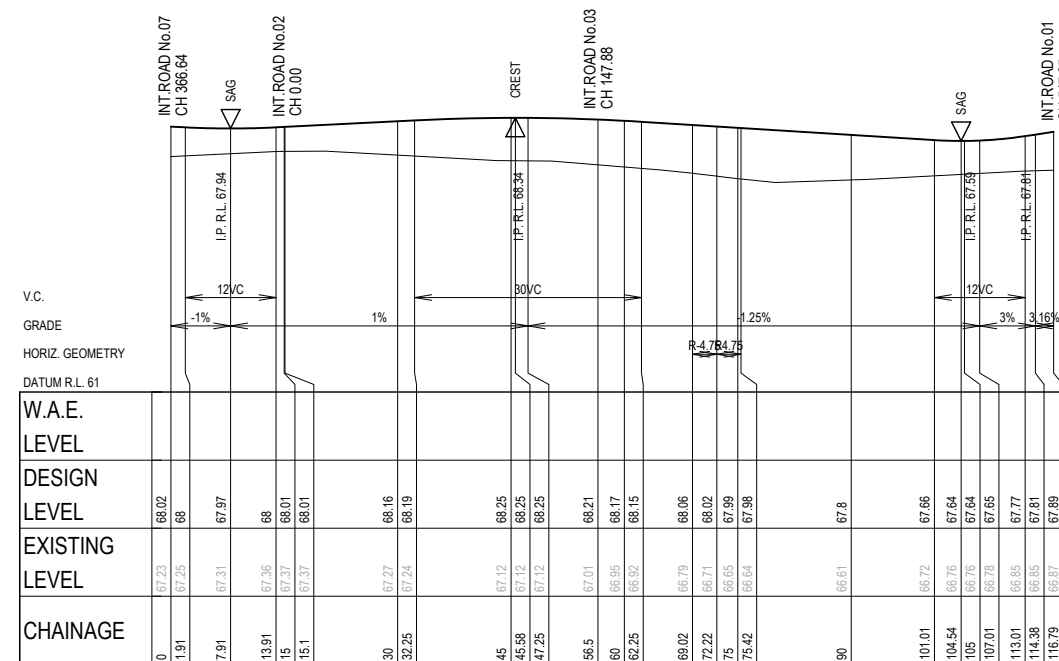
LONGITUDINAL SECTION - ROAD No.02

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



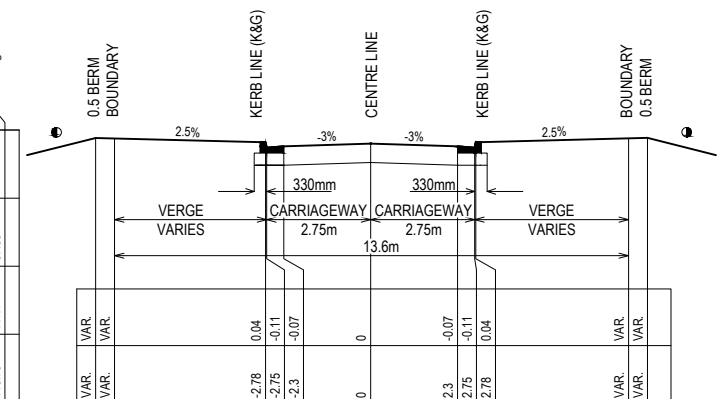
TYPICAL CROSS SECTION - ROAD No.02

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



LONGITUDINAL SECTION - ROAD No.03

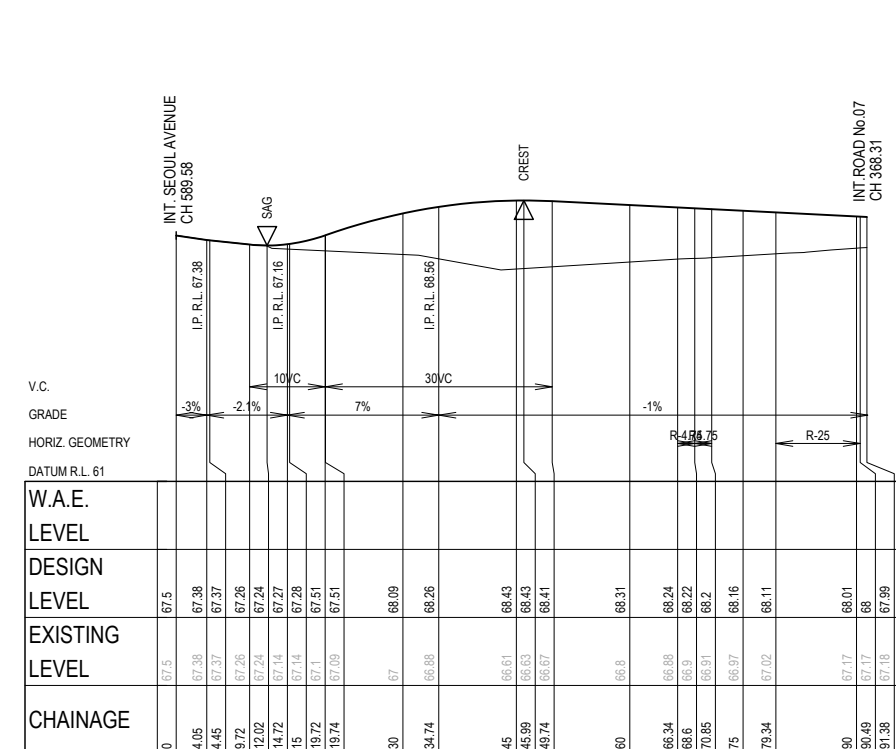
SCALE 1:500 (H)
SCALE 1:100 (V)



TYPICAL CROSS SECTION - ROADS No.03 & 04

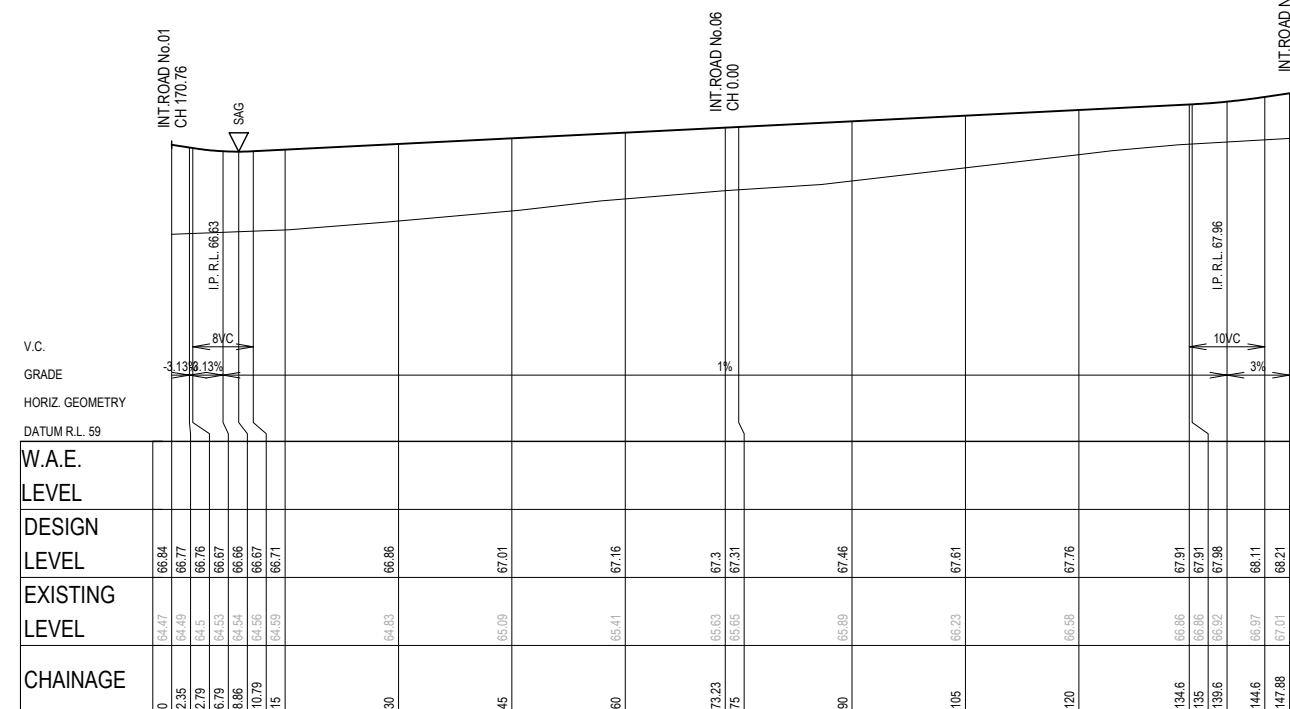
SCALE 1:100 (H) 1:100 (V)

- NOTE:**
1. ● DENOTES REFER TO BULK EARTHWORKS PLANS DRAWINGS No.201 - 202
 2. DESIGN SPEED FOR ROADS No.2, 3, 4 & 5 IS 10 KM/H



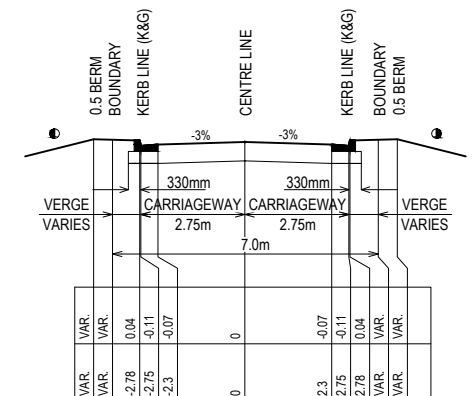
LONGITUDINAL SECTION - ROAD No.04

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



LONGITUDINAL SECTION - ROAD No.05

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



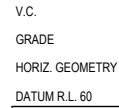
TYPICAL CROSS SECTION - ROAD No.05

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

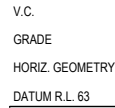
[illegible]

1. ● DENOTES REFER TO BULK
EARTHWORKS PLANS DRAWINGS
No.201 - 202

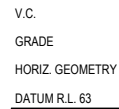
2. DESIGN SPEED FOR ROADS No.6, 8 & 9 IS 10 KM/H



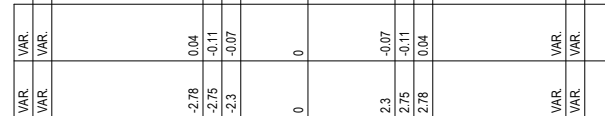
SCALE 1:500 (H)
SCALE 1:100 (V)



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



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



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

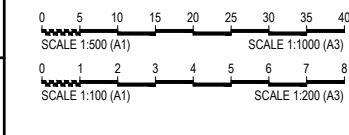
AMENDMENTS	1	RT	PS	GM/NF	RS	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION
	2	RT	MZ	GM	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT

AUTHORISED FOR ISSUE:

BY: ENRIQUE FRANCO SIGN: 

BE(Hons) MIEAust. CPEng NER

DATE: 24/10/2017



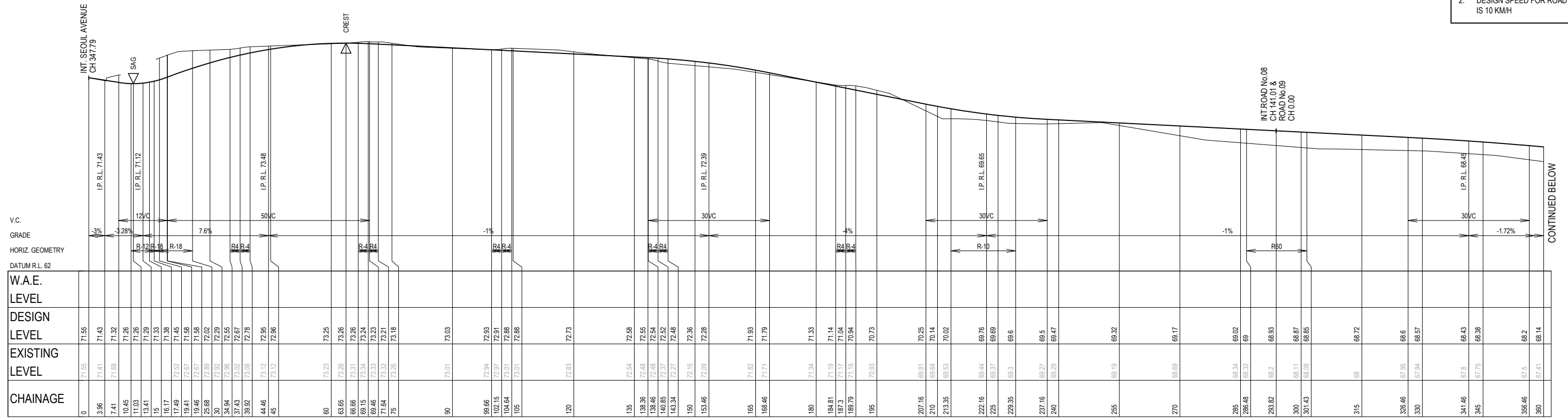
© 2022
calibregroup.com

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

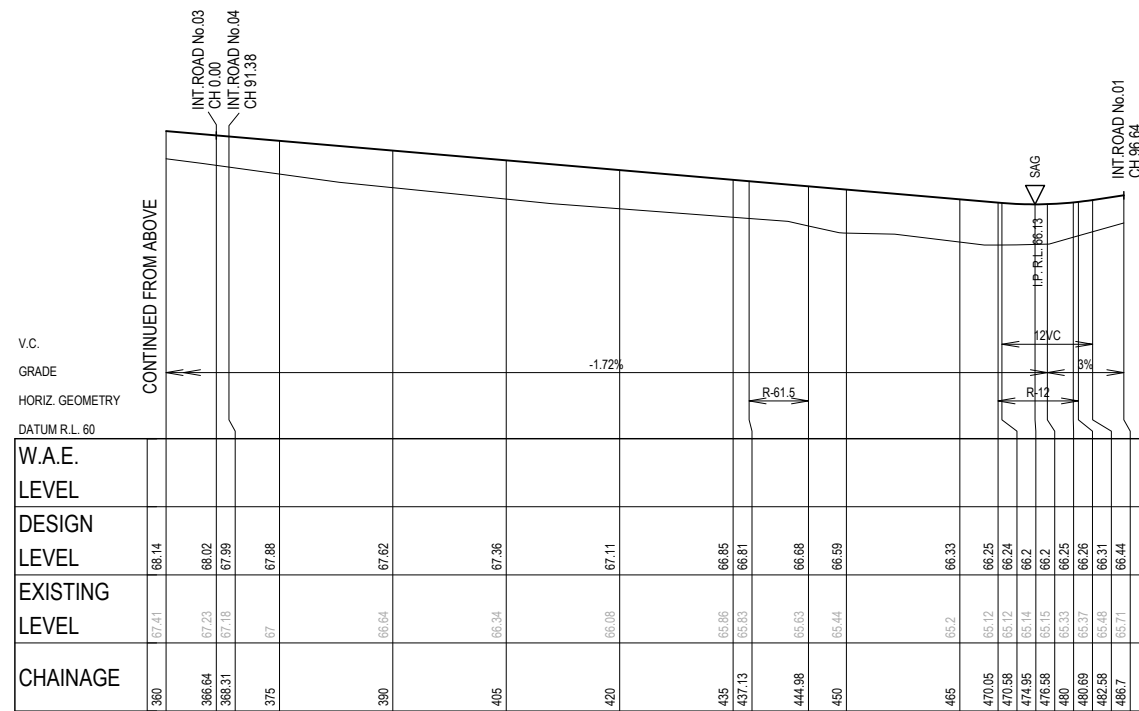
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	403	DA	2

FILE:H:\21\21-000381 - OSL - GURNER AVENUE, AUSTRAL\06_MODEL\AUTOCAD\CIVIL\DA\EAST21-000381_EAST_LD_DA-403.DWG LAST SAVED BY MONA ZAHABI

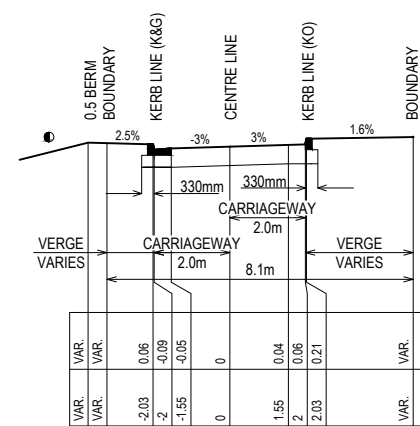
- NOTE:**
1. **●** DENOTES REFER TO BULK EARTHWORKS PLANS DRAWINGS No.201 - 202
 2. DESIGN SPEED FOR ROAD No.7 IS 10 KM/H



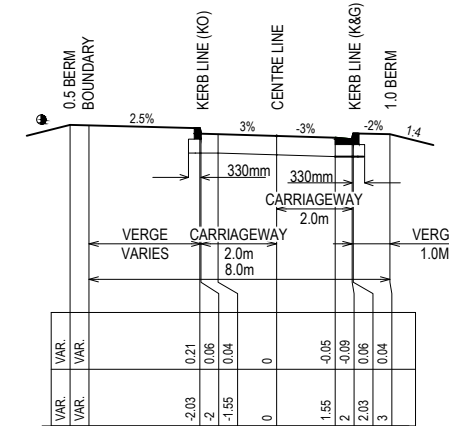
LONGITUDINAL SECTION - ROAD No.07
SCALE 1:500 (H)
SCALE 1:100 (V)



LONGITUDINAL SECTION - ROAD No.07
SCALE 1:500 (H)
SCALE 1:100 (V)

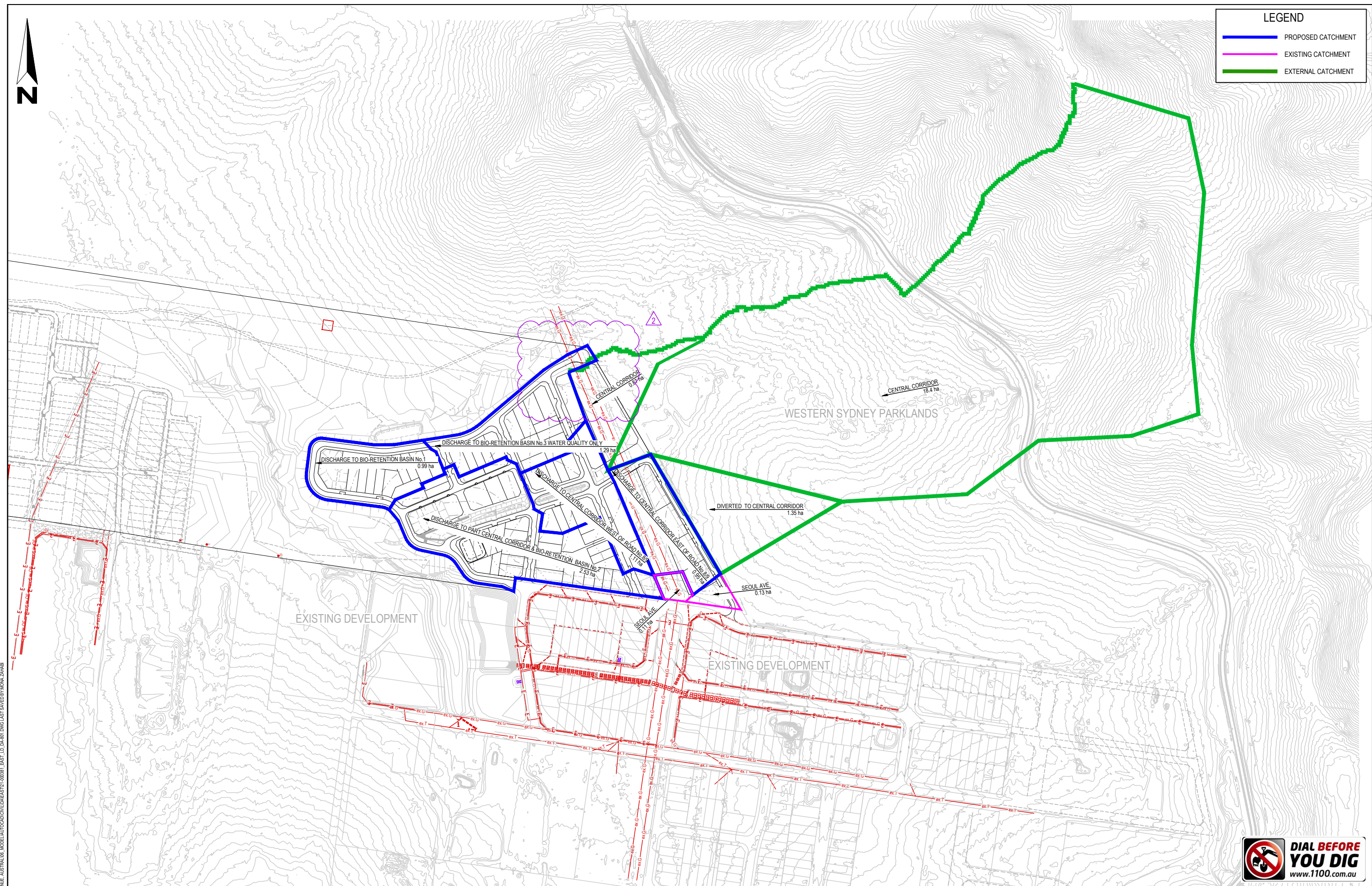
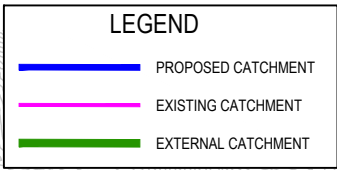


TYPICAL CROSS SECTION - ROAD No.07
CH 17 - CH 210
SCALE 1:100 (H) 1:100 (V)



TYPICAL CROSS SECTION - ROAD No.07
CH 235 - CH 470
SCALE 1:100 (H) 1:100 (V)

AMENDMENTS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS FOR DEVELOPMENT APPLICATION AUTHORISED FOR ISSUE: BY: ENRIQUE FRANCO SIGN:  BE(Hons) MIEAust. CPEng NER DATE: 24/10/22	STATUS	SCALE 0 5 10 15 20 25 30 35 40 SCALE 1:500 (A1) SCALE 1:1000 (A3) 0 1 2 3 4 5 6 7 8 SCALE 1:100 (A1) SCALE 1:200 (A3)	CLIENT  LANDCOM © 2022 calibregroup.com	PROJECT OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST) DRAWING TITLE LONGITUDINAL & TYPICAL SECTIONS - ROAD No.07 DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	PROJECT No. DRAWING No. STAGE REVISION 21-000381 404 DA 2		
	1	AV	MZ	EF	EF							27/10/2021	ISSUED FOR DEVELOPMENT APPLICATION
	2	RT	PS	GMINF	RS							25/11/2021	ISSUED FOR COUNCIL AMENDMENT



AMENDMENT DETAILS										FOR DEVELOPMENT APPLICATION										SCALE										CLIENT										PROJECT										DRAWING TITLE																			
DESIGN DRAWN CHECK APPD. DATE										STATUS										0 20 40 60 80 100 120 140 160 SCALE 1:2000 (A1) SCALE 1:4000 (A3)										 LANDCOM										 calibre © 2022 calibregroup.com										OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST)										EXTERNAL CATCHMENT PLAN									
1 RT PS GM/NF RS 27/10/2021 ISSUED FOR DEVELOPMENT APPLICATION										BY: ENRIQUE FRANCO SIGN:  BE(Hons) MIEAust. CPEng NER																																																											
2 RT MZ GM EF 29/07/2022 ISSUED FOR COUNCIL AMENDMENT										DATE: 24/10/2022																																																											



LEGEND

- PROPOSED STORMWATER PIPELINE & DRAINAGE PIT.
- TEMPORARY STORMWATER PIPELINE & DRAINAGE PIT.
- FUTURE STORMWATER PIPELINE & DRAINAGE PIT.



OUTLET PIPE
INV. R.L. 64.2

SPILLWAY R.L. 65.5

TOP OF FILTER = R.L. 65.15
BIO FILTRATION AREA= 470m²
E.D.D. = R.L. 65.45

1m BERM SET
AT R.L. 65.06

LOW FLOW PIPE

HIGH FLOW PIPE

ROAD No.01

502

503

504

505

506

TOP OF FILTER = R.L. 64.00
BIO FILTRATION AREA= 260m²
E.D.D. = R.L. 64.30

OUTLET CONTROL
STRUCTURE

TEMPORARILY
BLOCK D/S PIPE

ROAD No.01

SECTION A
SCALE: 1:200 (H)
SCALE: 1:100 (V)

SECTION B
SCALE: 1:200 (H)
SCALE: 1:100 (V)

SECTION E
SCALE: 1:200 (H)
SCALE: 1:100 (V)

AMENDMENT DETAILS					
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE
1	AV	MZ	EF	EF	27/10/2021
2	RT	PS	IG/MNF	RS	25/11/2021
3	RT	MZ	GM	EF	29/07/2022

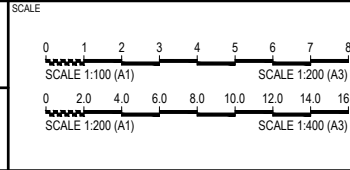
STATUS

FOR DEVELOPMENT APPLICATION

AUTHORISED FOR ISSUE:
BY: ENRIQUE FRANCO
BE(Hons) MIEAust. CPEng NER

SIGN:

DATE: 24/07/22

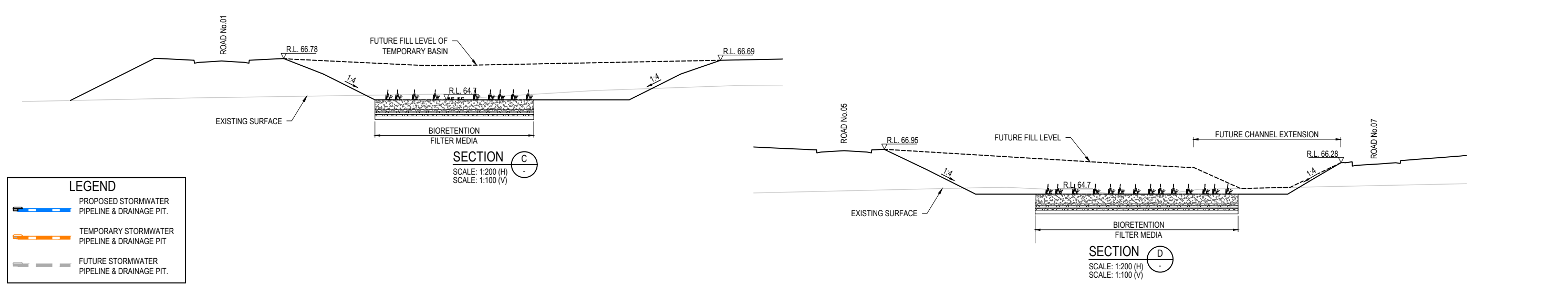
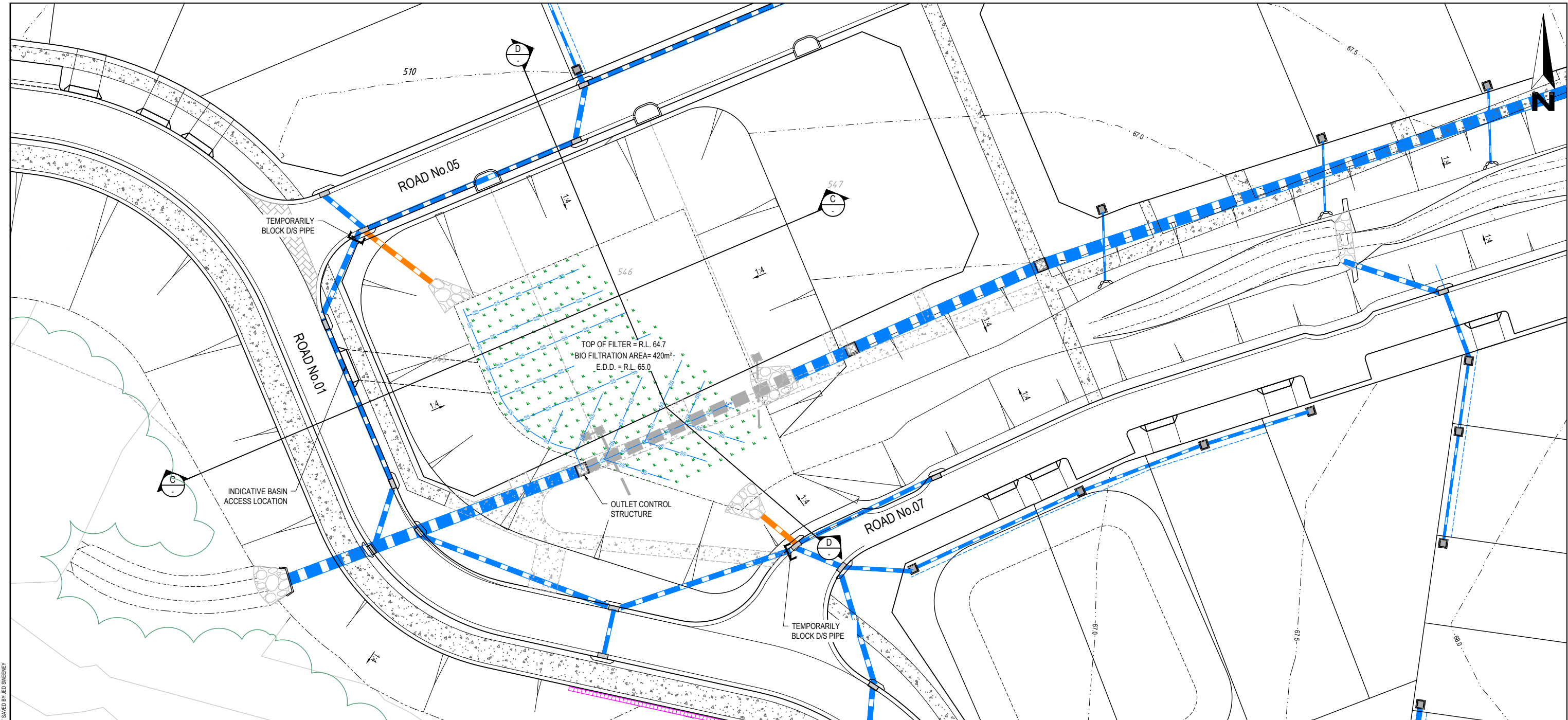


PROJECT
OSL - GURNER AVENUE, AUSTRAL
ROAD & DRAINAGE DESIGN (EAST)

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

DRAWING TITLE			
BASINS No.1 & 3 DETAIL PLAN			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	850	DA	2

FILE: I:\STANDARD\BROWMAN\LOCAL\PROJECTS\2021\2021-000381 - OSL - GURNER AVENUE, AUSTRAL\06. MODEL\AUTOCAD\DWG\1100\21-000381_EAST_L01.DWG LAST SAVED BY: JED BREWNEY



LEGEND

- PROPOSED STORMWATER PIPELINE & DRAINAGE PIT.
- TEMPORARY STORMWATER PIPELINE & DRAINAGE PIT.
- FUTURE STORMWATER PIPELINE & DRAINAGE PIT.

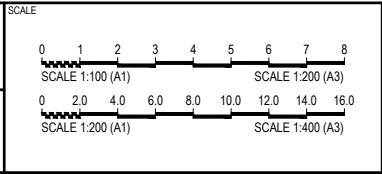
REV	AMENDMENT DETAILS				
	DESIGN	DRAWN	CHECK	APPD.	DATE
1	AV	MZ	EF	EF	27/10/2021
2	RT	PS	GM/NF	RS	25/11/2021
3	RT	MZ	GM	EF	29/07/2022

FOR DEVELOPMENT APPLICATION

STATUS: **ISSUED FOR DEVELOPMENT APPLICATION**

AUTHORISED FOR ISSUE: **BY: ENRIQUE FRANCO** SIGN: *[Signature]* DATE: **24/11/22**

BE(Hons) MIEAust. CPEng NER



CLIENT: **LANDCOM**

calibre

© 2022 calibregroup.com

PROJECT: **OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST)**

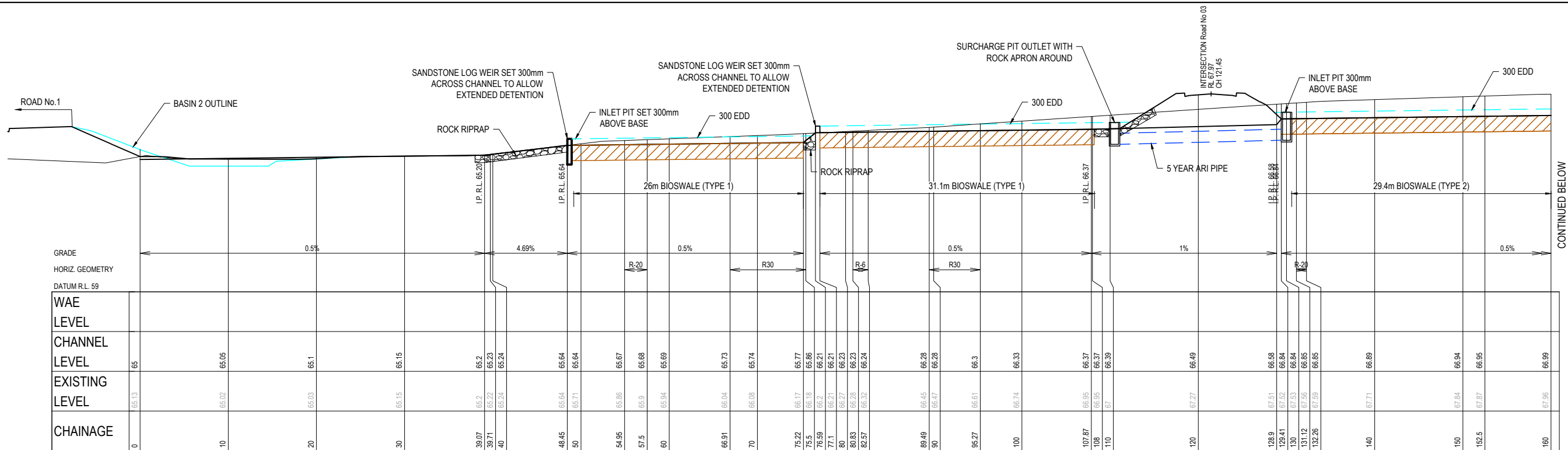
DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE: **BASIN No.2 DETAIL PLAN**

PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	851	DA	2

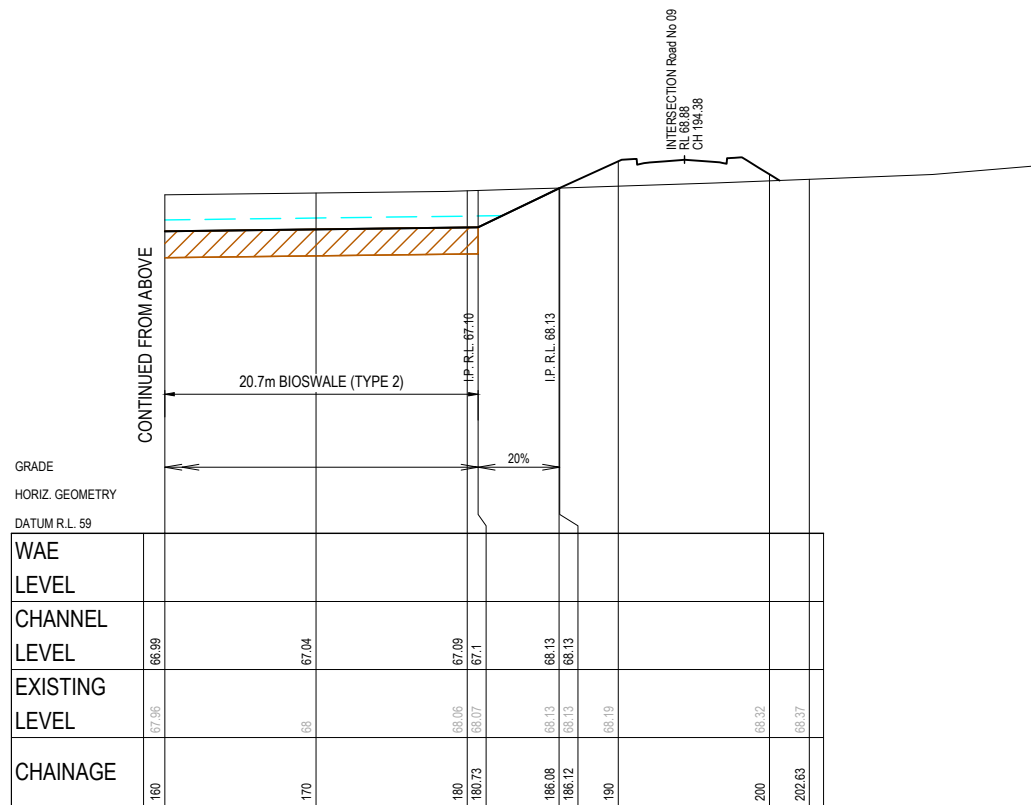
FILE: I:\STANDARD\BROWMAN LOCAL\PROJECTS\2021\21-000381 - OSL - GURNER AVENUE, AUSTRAL\BROWMAN LOCAL\PROJECTS\2021\21-000381 - OSL - GURNER AVENUE, AUSTRAL\DWG\LAST SAVED BY: JED SWEENEY

FILE: I:\STANDARD\BROWMAN\LOCAL\PROJECTS\2021\2021-000381 - OSR - GURNER AVENUE - AUSTRAL\06 - MODEL\AUTOCAD\DWG\2021\2021-000381 - EAST - LD - 48-83.DWG LAST SAVED BY: PETER SPADARO



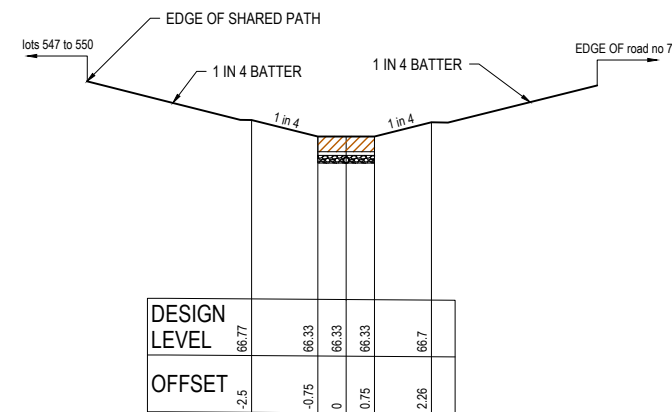
LONGITUDINAL SECTION CENTRELINE - LINEAR BIOSWALE

SCALE 1:250 (H)
SCALE 1:100 (V)



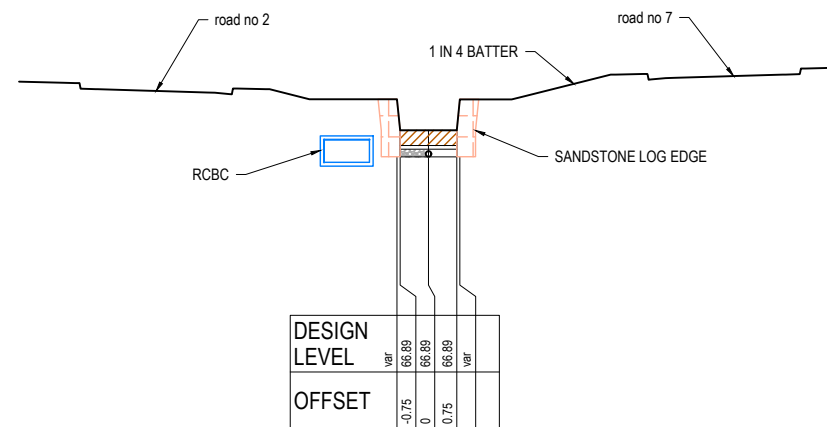
LONGITUDINAL SECTION CENTRELINE - LINEAR BIOSWALE

SCALE 1:250 (H)
SCALE 1:100 (V)



TYPICAL CROSS SECTION - LINEAR BIOSWALE

CH 48 - CH 108
SCALE 1:100 (H) 1:100 (V)

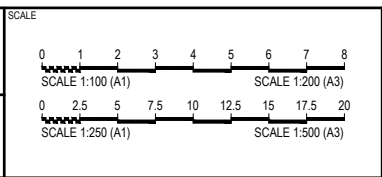


TYPICAL CROSS SECTION - LINEAR BIOSWALE

CH 130 - CH 186
SCALE 1:100 (H) 1:100 (V)

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
	AV	MZ	EF	EF	27/10/2021	
1	RT	PS	GM/NF	RS	25/11/2021	ISSUED FOR DEVELOPMENT APPLICATION
2	RT	MZ	GM	EF	29/07/2022	ISSUED FOR COUNCIL AMENDMENT

STATUS		FOR DEVELOPMENT APPLICATION	
AUTHORISED FOR ISSUE:		BY: ENRIQUE FRANCO	SIGN:
		BE(Hons) MIEAust. CPEng NER	DATE: 24/10/2022



PROJECT			
OSL - GURNER AVENUE, AUSTRAL ROAD & DRAINAGE DESIGN (EAST)			
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY			

DRAWING TITLE			
LINEAR BIOSWALE LONGITUDINAL & TYPICAL CROSS SECTIONS			
PROJECT No.	DRAWING No.	STAGE	REVISION
21-000381	853	DA	2