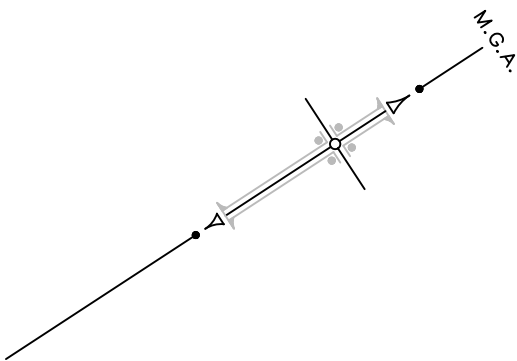


THIS IS A DRAFT PLAN ONLY AND IS  
SUBJECT TO FINAL SURVEY



SCHEDULE OF SHORT & CURVED LINES

No.	BEARING	DISTANCE	ARC	RADIUS
1	93°38'35"	3.27		
2	60°30'45"	4.9.05	52.835	45.405
3	27°46'30"	3.945		
4	4°15'30"	29.165	29.405	66.215
5	17°48'25"	18.77		
7	319°47'45"	51.225	51.95	89.5
8	303°10'05"	7.325		
9	313°35'50"	12.64	12.72	32.025
10	177°03'45"	34.02	35.865	32.025
11	234°15'25"	38.29	38.77	71
12	275°02'05"	60.31	62.29	71
13	80°53'30"	66.6	73.05	49.5
14	347°57'	31.76	35.24	22.55
15	141°37'	60.9	61.715	109.5
16	121°20'20"	18.48		
17	95°40'10"	19.64	19.715	65.185
18	124°02'20"	6.5		
19	31°20'10"	6.89		
20	215°38'	8.755	8.76	84.25
21	301°40'10"	3.72	3.72	71
22	123°10'05"	4.25		
23	38°38'45"	7.72		
24	35°38'20"	14.575	14.585	140.5
25	212°39'55"	2.31		

NEW EASEMENTS:  
(A) EASEMENT FOR SUPPORT 0.45 WIDE  
(B) EASEMENT FOR SUPPORT AND MAINTENANCE 0.9 WIDE  
(C) RESTRICTION ON THE USE OF LAND (0.9 WIDE)  
(D) EASEMENT TO DRAIN WATER 1.5 WIDE  
(E) EASEMENT FOR PADMOUNT SUBSTATION 2.75 WIDE  
(R) RESTRICTION ON THE USE OF LAND

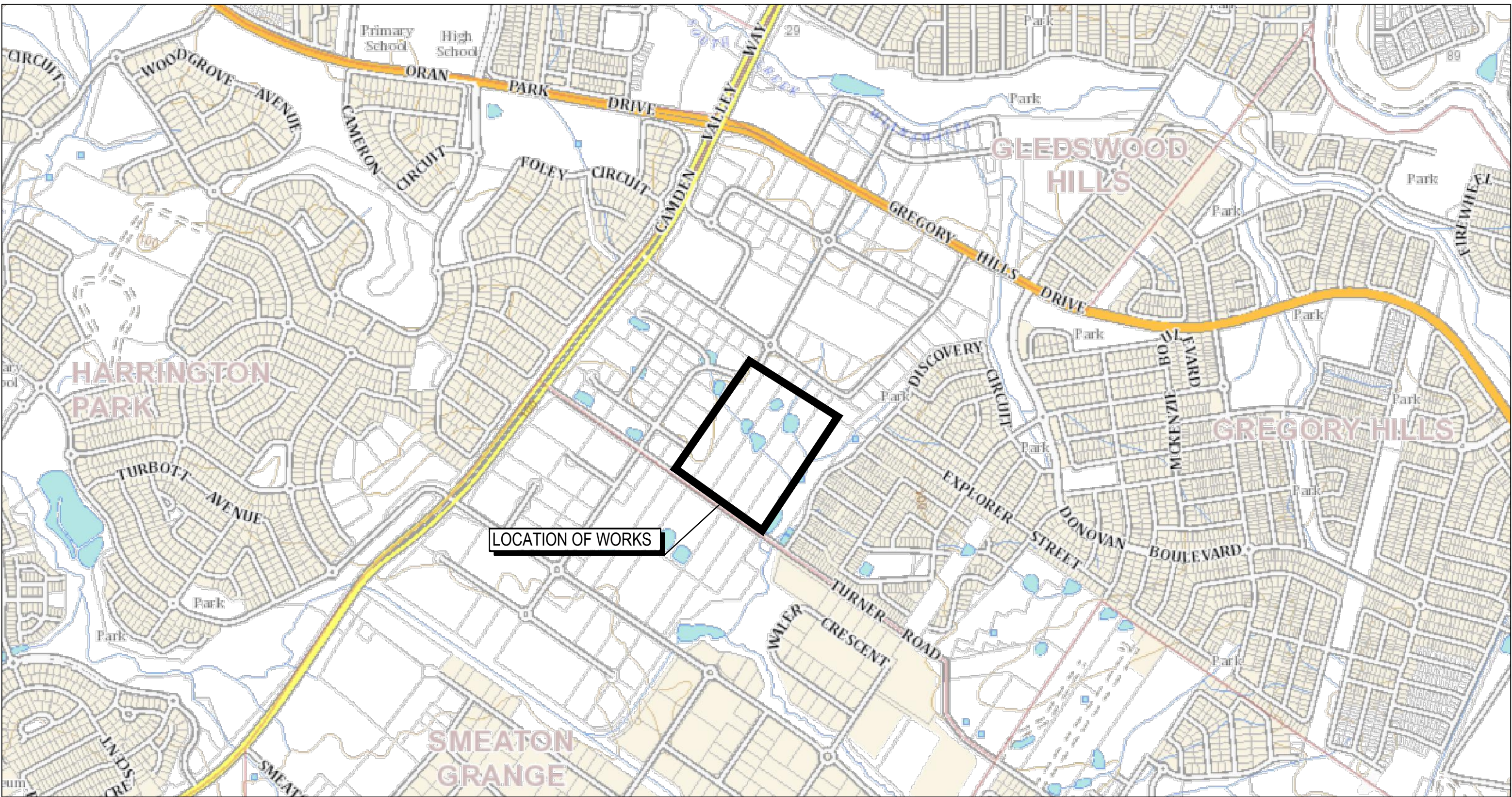


# 43-61 TURNER ROAD, GREGORY HILLS


## TURNER ROAD INDUSTRIAL ESTATE

### CIVIL WORKS PACKAGE

### DA ISSUE



LOCALITY PLAN  
N.T.S

L	ISSUED FOR DA	23-01-23	Bar Scales			Client  TURNER ROAD INDUSTRIAL PTY LTD	Scales  N.T.S	Drawn	JH	Project  43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE	Civil Engineers and Project Managers  <b>at&amp;l</b> Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au			
K	ISSUED FOR DA	13-01-23						Designed	JH					
J	ISSUED FOR DA	07-22-22						Checked	ALa					
G	ISSUED FOR DA	30-08-22					Grid	GDA2020	Height Datum	AHD		Approved		Title  COVER SHEET
F	ISSUED FOR DA APPROVAL	29-06-22												
E	ISSUED FOR DA APPROVAL	22-04-22												
D	ISSUED FOR DA APPROVAL	20-04-22												
C	ISSUED FOR DA APPROVAL	12-04-22												
B	ISSUED FOR APPROVAL	04-11-21												
Issue	Description	Date												

Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C000	Issue L



## DRAWING LIST

DRAWING No.	DRAWING TITLE
21-889-C000	COVER SHEET
21-889-C001	DRAWING LIST AND NOTES
21-889-C002	GENERAL NOTES
21-889-C003	GENERAL ARRANGEMENT PLAN
21-889-C004	TYPICAL ROAD CROSS SECTIONS SHEET 1
21-889-C005	TYPICAL ROAD CROSS SECTIONS SHEET 2
21-889-C006	TYPICAL ROAD VERGE SECTIONS
21-889-C007	TYPICAL SITE SECTIONS SHEET 1
21-889-C008	TYPICAL SITE SECTIONS SHEET 2
BULK EARTHWORKS	
21-889-C101	BULK EARTHWORKS PLAN
21-889-C102	BULK EARTHWORKS SECTIONS SHEET 1
21-889-C103	BULK EARTHWORKS SECTIONS SHEET 2
ROADWORKS	
21-889-C201	ROADWORKS AND DRAINAGE PLAN SHEET 1
21-889-C202	ROADWORKS AND DRAINAGE PLAN SHEET 2
21-889-C203	ROADWORKS AND DRAINAGE PLAN SHEET 3
21-889-C204	ROADWORKS AND DRAINAGE PLAN SHEET 4
21-889-C205	ROADWORKS AND DRAINAGE PLAN SHEET 5
21-889-C206	ROADWORKS AND DRAINAGE PLAN SHEET 6
21-889-C207	ROADWORKS AND DRAINAGE PLAN SHEET 7
21-889-C208	ROADWORKS AND DRAINAGE PLAN SHEET 8
ROAD LONGITUDINAL SECTIONS	
21-889-C301	ROAD 01 (MC01) & ROAD 02 (MC02) LONGITUDINAL SECTIONS
21-889-C302	ROAD 02 (MC02) & ROAD 03 (MC03) LONGITUDINAL SECTIONS
RETAINING WALL	
21-889-C401	RETAINING WALL GENERAL ARRANGEMENT PLAN
21-889-C402	RETAINING WALL PROFILE SHEET 1
21-889-C403	RETAINING WALL PROFILE SHEET 2
21-889-C404	RETAINING WALL PROFILE SHEET 3
21-889-C405	RETAINING WALL DETAILS SHEET 1
21-889-C406	RETAINING WALL DETAILS SHEET 2
21-889-C407	RETAINING WALL DETAILS SHEET 3
21-889-C408	RETAINING WALL DETAILS SHEET 4
STORMWATER DRAINAGE	
21-889-C501	STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)
21-889-C502	STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)
21-889-C521	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1
21-889-C522	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2
21-889-C523	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3
21-889-C524	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 4
21-889-C525	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 5

21-889-C526	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 5
21-889-C531	STORMWATER DRAINAGE DETAILS SHEET 1
21-889-C532	STORMWATER DRAINAGE DETAILS SHEET 2
21-889-C533	STORMWATER DRAINAGE DETAILS SHEET 3
21-889-C535	STORMWATER DRAINAGE PITS ARRANGEMENT PLAN
21-889-C536	STORMWATER DRAINAGE PITS ARRANGEMENT SECTIONS
VEHICLE TURN PATHS	
21-889-C601	TURN PATHS PLAN SHEET 1
21-889-C602	TURN PATHS PLAN SHEET 2
21-889-C603	TURN PATHS PLAN SHEET 3
21-889-C604	TURN PATHS PLAN SHEET 4
21-889-C605	TURN PATHS PLAN SHEET 5
21-889-C606	TURN PATHS PLAN SHEET 6
21-889-C607	TURN PATHS PLAN SHEET 7
21-889-C608	TURN PATHS PLAN SHEET 8
SERVICES AND UTILITIES	
21-889-C701	SERVICES AND UTILITIES COORDINATION PLAN SHEET 1
21-889-C702	SERVICES AND UTILITIES COORDINATION PLAN SHEET 2
EROSION AND SEDIMENT CONTROL	
21-889-C801	SEDIMENT AND EROSION CONTROL PLAN SHEET 1
21-889-C802	SEDIMENT AND EROSION CONTROL PLAN SHEET 2
21-889-C803	SEDIMENT AND EROSION DETAILS
SIGNAGE & LINEMARKING	
21-889-C901	SIGNAGE & LINEMARKING PLAN SHEET 1
21-889-C902	SIGNAGE & LINEMARKING PLAN SHEET 2

## EROSION AND SEDIMENT CONTROL

## NOTES

## SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.

10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.

12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

## OTHER MATTERS

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

(A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE

(B) ENSURING THAT NOTHING IS NAILED TO THEM

(C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.

(I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER

(II) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH

(III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

## STAGING

SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, THROUGHOUT THE FULL TERM OF THE CONTRACT, WHERE SHOWN ON AT&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR CAMDEN COUNCIL'S ENGINEERS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, DOCUMENTING, INSTALLING AND MAINTAINING THE SEDIMENT AND EROSION CONTROL MEASURES TO SUIT THE SELECTED CONSTRUCTION STAGING. THIS IS TO BE DOCUMENTED IN THE FORM OF A SOIL AND WATER MANAGEMENT PLAN TO BE DEVELOPED BY THE CONTRACTOR AND THEIR EROSION NO SEDIMENT CONSULTANT AND PROVIDED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCEMENT.

SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT, CAMDEN COUNCIL'S SPECIFICATIONS AND THE OFFICE OF ENVIRONMENT AND HERITAGE'S 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION. LANDCOM, (4TH EDITION) MARCH 2004 (REPRINTED 2006) (THE "BLUE BOOK"). VOLUME 1 AND VOLUME 2.

## EROSION AND SEDIMENT CONTROL

## NOTES

## GENERAL INSTRUCTIONS

1. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING A SUITABLY QUALIFIED EROSION AND SEDIMENT CONSULTANT FOR THE DURATION OF THE CONTRACT WITH THE EXPERTISE IN DESIGNING AND DOCUMENTING THE CONTROLS TO ALLOW THE INSTALLATION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROLS. SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR REQUIRED TO SUIT THE CONSTRUCTION STAGING

2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH

- a. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004
- b. LOCAL AUTHORITY REQUIREMENTS
- c. EPA REQUIREMENTS

3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.

4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.

5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

## LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN / INSTALLED AS DIRECTED BY THE CONTRACTORS EROSION AND SEDIMENT CONTROL CONSULTANT.

## EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.

8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

## SURVEY NOTES

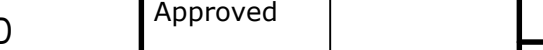
THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS  
HAVE BEEN INVESTIGATED BY LTS PTY LTD, BEING REGISTERED  
SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR  
DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS  
OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION  
DRAWINGS.

PRIOR TO THE COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL UNDERTAKE A DETAILED BOUNDARY SURVEY AND COMPARE AGAINST THE DESIGN FOR DISCREPANCIES.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA, DESIGN DATA AND ACTUAL FIELD DATA, CONTACT AT & L IMMEDIATELY.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

1. THE BOUNDARIES HAVE NOT BEEN MARKED ON GROUND
2. ALL AREAS AND DIMENSIONS HAVE BEEN COMPILED FROM PLANS MADE AVAILABLE BY NSW LAND REGISTRY SERVICES AND ARE SUBJECT TO FINAL SURVEY
3. ORIGIN OF LEVELS ON A.H.D. IS TAKEN FROM PM66774 R.L. 96.672 (A.H.D.) IN TURNER ROAD
4. ORIGIN OF COORDINATES IS TAKEN FROM SSM168919 R.L. 96.672 IN REDOE ROAD
5. CONTOUR INTERVAL 0.5 m
6. CONTOURS ARE INDICATIVE ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
7. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
8. KERB LEVELS ARE TO THE TOP OF KERB UNLESS SHOWN OTHERWISE
9. FLOOR LEVELS SHOWN ARE THRESHOLD LEVELS. NO INVESTIGATION OF INTERNAL FLOOR LEVELS HAS BEEN UNDERTAKEN
10. NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. SERVICES HAVE BEEN PLOTTED FROM RELEVANT AUTHORITIES INFORMATION AND HAVE NOT BEEN SURVEYED. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE
11. 8.4/7 DENOTES TREE SPREAD OF 8m, TRUNK DIAMETER OF 0.4m & APPROX HEIGHT 7m
12. SHOWS APPROXIMATE POSITION OF ROAD LINEMARKING AND IS INDICATIVE ONLY
13. BEARINGS SHOWN ARE MGA (MAP GRID OF AUSTRALIA) ADD APPROX. 1°00' FOR TRUE NORTH

L	ISSUED FOR DA	23-01-23	Bar Scales		Client	TURNER ROAD INDUSTRIAL PTY LTD	Scales	Drawn	JH	Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE	<div>Civil Engineers and Project Managers</div> <div><div>at&amp;l</div><div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</div></div>			
K	ISSUED FOR DA	13-01-23					N.T.S	Designed	JH						
J	ISSUED FOR DA	07-11-22													
G	ISSUED FOR DA	30-08-22					Grid	GDA2020	Checked				ALa		
F	ISSUED FOR DA APPROVAL	29-06-22				THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT WRITTEN PERMISSION OF AT&L	Height Datum	AHD	Approved		Title	DRAWING LIST AND NOTES	Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
E	ISSUED FOR DA APPROVAL	22-04-22													
D	ISSUED FOR DA APPROVAL	20-04-22													
C	ISSUED FOR DA APPROVAL	12-04-22													
B	ISSUED FOR APPROVAL	04-11-21													
Issue	Description	Date									Project - Drawing No. 21-889-C001	Issue L			



SITEWORKS NOTES

- ORIGIN OF LEVELS:- REFER SURVEY NOTES.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
- MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- ASPHALTIC CONCRETE SHALL CONFORM TO R.M.S SPECIFICATION R116.
- ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051 (UNBOUND), R.M.S FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m<sup>2</sup> OF BASECOURSE MATERIAL PLACED.
- ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m<sup>2</sup> OF SUB-BASE COURSE MATERIAL PLACED.
- AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
- SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
- ALL WORKS CARRIED OUT ADJACENT TO AND WITHIN TRANSGRID'S EASEMENT TO COMPLY WITH TRANSGRID'S GUIDELINES AND REQUIREMENTS.
- ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH CAMDEN COUNCIL'S ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS AND TO THE REQUIREMENTS OF THE CERTIFYING AUTHORITY. 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.
- NO TREES ARE TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCIL'S LANDSCAPE COMPLIANCE OFFICER OR AS AUTHORISED BY DEVELOPMENT CONSENT.
- MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
- NO WORK IS TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.
- VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
- 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.

DEWATERING

- IF REQUIRED ANY DEWATERING WORKS TO BE AS PER THE DEWATERING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP) WHICH IS TO BE PREPARED BY CONTRACTOR AS ADVISED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE SUPERINTENDENT.

RETAINING WALL NOTES (TBC)

- LOADING:**
- THE FOLLOWING DESIGN LOADS SHALL BE CONSIDERED.
- DEAD LOAD (min 5 kPa); ANY BUILDINGS, STRUCTURE, UTILITIES OR OTHER DEAD LOADS / SURCHARGES WITHIN THE 'ZONE OF INFLUENCE' OF THE RETAINING WALL.
  - LIVE LOAD: min 20 kPa UNIFORMLY DISTRIBUTED LOAD.
  - ALL WALLS FINISHES TO MATCH EXISTING BLOCK WALLS CONSTRUCTED AS PART OF STOCKLAND SITE TO THE WEST.

EXISTING UNDERGROUND SERVICES

- THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
- AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
- CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
- CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
- CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES.

CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- CONCRETE QUALITY  
ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 Fc MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL  
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
- CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S SPECIFICATION R83.
- REINFORCEMENT SYMBOLS:  
N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N  
R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302  
SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

NUMBER OF BARS IN GROUP

17 N 20 250

NOMINAL BAR SIZE IN mm

THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.

- FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:



DECOMMISSIONING / DEMOLITION

- DEMOLITION OF EXISTING DWELLING TO BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF AS2601-2001 - DEMOLITION OF STRUCTURES BY CONTRACTORS EXPERIENCED IN THIS CLASS OF WORK AND HOLDING REQUIRED CURRENT PERMITS AND LICENSES AS REQUIRED.
- EXISTING INTERNALS FENCING, CATTLE YARDS, UTILITIES AND OTHER REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN APPROVED WASTE MANAGEMENT FACILITY.
- DAM DECOMMISSIONING TO BE COMPLETED AS PER THE DAM DECOMMISSIONING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP) WHICH IS TO BE PREPARED BY THE CONTRACTOR, AS ADVISED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE SUPERINTENDENT.
- ALL EXISTING SERVICES (INCLUDING SEPTIC TANKS) SHALL BE REMOVED FROM SITE.

CONTINUED ABOVE

DECOMMISSIONING / DEMOLITION

CONTINUED FROM BELOW

- ALL UNDERGROUND CABLES AND PIPES SHALL BE GRUBBED OUT AND CAPPED AT THE BOUNDARY OF THE SITE.
- ALL EXISTING SERVICES TO BE CONSIDERED AS LIVE UNTIL THE CONTRACTOR HAS TESTED AND CONFIRMED TO THE SUPERINTENDENT THAT THE SERVICES ARE DEAD / REDUNDANT.

KERBING NOTES

- ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.
- ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
- EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- BROOM FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
- IN THE REPLACEMENT OF KERB AND GUTTER :-  
IF REQUIRED EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.

STORMWATER DRAINAGE NOTES

- STORMWATER DESIGN CRITERIA:  
(A) AVERAGE REQUIREMENT FOR DRAINAGE:  
1:100 YEARS MAJOR STORM (OVERLAND FLOW)  
1:10 YEARS MINOR STORM (PIPED NETWORK)  
(B) RAINFALL INTENSITIES:  
TIME OF CONCENTRATIONS 5 MINUTES  
1:100 YEARS= 219 mm/hr  
1:10 YEARS= 141.6 mm/hr  
(C) RUNOFF COEFFICIENTS:  
ROOF AREAS: C 100 =1.0  
EXTERNAL PAVEMENTS: C 100 =1.0
- PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
- EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED, SUBJECT TO THE APPROVAL OF CAMDEN COUNCIL.
- ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
- PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
- ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM TO AS 3996 AND CAMDEN COUNCIL CONSTRUCTION SPECIFICATIONS.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.
- ALL STORMWATER PITS ARE TO BE CAST IN-SITU IN ACCORDANCE WITH THE STORMWATER DETAILS AND SPECIFICATIONS, UNLESS APPROVED BY THE SUPERINTENDENT / CAMDEN COUNCIL. IF APPROVED AND IN ADDITION TO THE SPECIFICATION.  
A. ALL PRE-CAST PITS ARE TO BE STRUCTURALLY CERTIFIED TO MEET RELEVANT AUSTRALIAN STANDARDS (AS3600, AS3996).  
B. ALL PRECAST PITS TO BE FOUNDED ON CONCRETE BLINDING LAYER WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPA UP TO 3.0M DEPTH TO INVERT AND 150KPA FROM 3.0M TO 6.0M DEPTH TO INVERT (MINIMUM 100MM THICK 25MPA OR DEEPER TO ENSURE MINIMUM SPECIFIED BEARING CAPACITY IS ACHIEVED).  
C. PRE-CAST STORMWATER PITS ARE TO BE CUSTOM MADE WITH OPENINGS WITHIN +50MM OD OF PIPE. HEIGHTS AND PIPE PENETRATIONS DURING MANUFACTURE. ANY ADDITIONAL PENETRATIONS SHALL BE CORE DRILLED.  
D. DEMOLITION SAWS ARE NOT TO BE USED IN ANY CIRCUMSTANCES.  
E. SINGLE UNITS PREFERRED BUT IF REQUIRED MINIMUM RISER DEPTH 600MM PIT INSTALLATION AND JOINTING PIPES TO PITS SHALL BE UNDERTAKEN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

CONTINUED ABOVE

CONTINUED FROM BELOW

- ANY DAMAGE TO THE STRUCTURAL INTEGRITY OF THE PRE-CAST PIT WILL BE REPAIRED AND STRUCTURALLY CERTIFIED TO THE SATISFACTION OF THE SUPERINTENDENT / CAMDEN COUNCIL.
- ALL PRE-CAST PIT PENETRATIONS SHALL BE CUT SO THAT IT IS FLUSH WITH THE INTERNAL WALL.
- PIPE JOINTING/SEALING OF PIPE PENETRATION TO BE WITH A NON-SHRINK MORTAR MIX, E.G. LANKO 702 DURABED OR SIMILAR APPROVED.
- 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.
- DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE METRES OF SUBSOIL DRAINAGE WOUND IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.
- ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.
- 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.
- CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- ALL INTERALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150 MM AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- ALL INTERALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTIONPITS MUST BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
- INTERALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTERALLOTMENT DRAINAGE LINES.
- 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.
- ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP AND PMF.
- ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
- PIT LINTELS ARE TO BE STENCILLED WITH APPLICABLE DISTINCTION STENCIL AVAILABLE FROM COUNCIL.
- CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY THE APPROVED PLANS OR THE PRINCIPAL CERTIFYING AUTHORITY.
- 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.

EMBANKMENT CONSTRUCTION

SEQUENCE

- STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
- CONSTRUCT EMBANKMENT TO GRADE NOMINATED ON DRAWING.
- IN THE CASE WHERE THE EMBANKMENT AREAS SHOW ANY FAILURE, THE CONTRACTOR IS TO ENGAGE A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER TO DETERMINE THE CAUSE AND METHOD OF RECTIFICATION
- COMPACT CLAY STABILISED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289 5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
- GYPSUM STABILISED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
- CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289 5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
- OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
- TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILISE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
- PLACE ROCK RIP-RAP AS SHOWN.
- RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
- WATER AND FERTILISE LANDSCAPE AS REQUIRED BY CLIMACTIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
- AT THE COMPLETION OF WORK WRITTEN CONFIRMATION AND CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

ROADWORKS NOTES

- SUBGRADES AND SUB BASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
- SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE).
- 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 90 MM DIAMETER STORMWATER PIPE.
- LIPLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS AND WHERE REQUIRED BY COUNCIL.
- SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING INTEGRAL ENERGY, TELSTRA AND SYDNEY WATER
- 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 750 MM.
- CONCRETE FOOTPATH CONSTRUCTION IS TO BE BONDED WITH COUNCIL PENDING COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.
- ALL TEMPORARY ROADS MUST BE TEMPORARILY SEALED WITH A SINGLE COAT FLUSH SEAL.
- ALL PERMANENT ROADS MUST BE SEALED WITH A SINGLE COAT FLUSH SEAL AND 50 MM OF AC TO BE APPLIED IN TWO 25 MM THICK LAYERS. THE FINAL AC LAYER IS TO BE AC 10 AND IS TO BE BONDED WITH COUNCIL AND PLACED FOLLOWING APPROVAL FROM COUNCIL.
- 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.
- ALL LOT AND HOUSE NUMBERS MUST BE STENCILLED ON KERB FACE.
- STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE CONTRACTOR.

EARTHWORKS NOTES

- 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 200 MM.
- 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 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.
- 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 50 MM TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
- PROVIDE MINIMUM 150 MM AND MAXIMUM 300 MM TOPSOIL WITH 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: SOLS AND CONSTRUCTION' PRODUCED BY LANDCOM.
- A MINIMUM 1 METRE WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND 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.



CONTRACTOR SHALL CALL:  
**DIAL BEFORE YOU DIG 1100**

PRIOR TO COMMENCEMENT OF WORK TO OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS

LEGEND:

	EXISTING BOUNDARY
	EXISTING BOUNDARY TO BE REMOVED
	PROPOSED BOUNDARY
	PROPOSED EASEMENT
	PROPOSED MAJOR CONTOUR (0.5m)
	PROPOSED MINOR CONTOUR (0.25m)
	EXISTING ELECTRICITY
	EXISTING SEWER
	EXISTING POTABLE WATER
	EXISTING TELECOM
	EXISTING GAS
	PROPOSED FENCE
	PROPOSED BATTER 1(V):4(H) U.N.O
	PROPOSED KERB AND GUTTER TO CAMDEN COUNCIL STD DWG SD02
	PROPOSED RETAINING WALL
	PROPOSED SWALE
	PROPOSED KERB RAMP TO CAMDEN COUNCIL STD DWG SD03
	LIMIT OF WORKS
	PROPOSED SUB SOIL
	PROPOSED PIT LABEL
	PROPOSED STORMWATER INLET PIT
	PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
	PROPOSED STORMWATER PIPE WITH HEADWALL
	PROPOSED CAPPED STORMWATER PIPE
	PROPOSED STORMWATER LINE
	PROPOSED WORK OVER SITE BOUNDARY SUBJECT TO OWNERS CONSENT
	EXISTING DAM TO BE DECOMMISSIONED
	EXISTING RE1 ZONE
	ON-SITE DETENTION BASIN REFER DETAIL ON DWG C533
	PROPOSED RETAINING WALL
	EXISTING RETAINING WALL
	EXISTING RETAINING WALL TO BE REMOVED

L	ISSUED FOR DA	23-01-23	Bar Scales
K	ISSUED FOR DA	13-01-23	
J	ISSUED FOR DA	07-11-22	
G	ISSUED FOR DA	30-08-22	
F	ISSUED FOR DA APPROVAL	29-06-22	
E	ISSUED FOR DA APPROVAL	22-04-22	
D	ISSUED FOR DA APPROVAL	20-04-22	
C	ISSUED FOR DA APPROVAL	12-04-22	
B	ISSUED FOR APPROVAL	04-11-21	
Issue	Description	Date	
----- 100mm on Original			

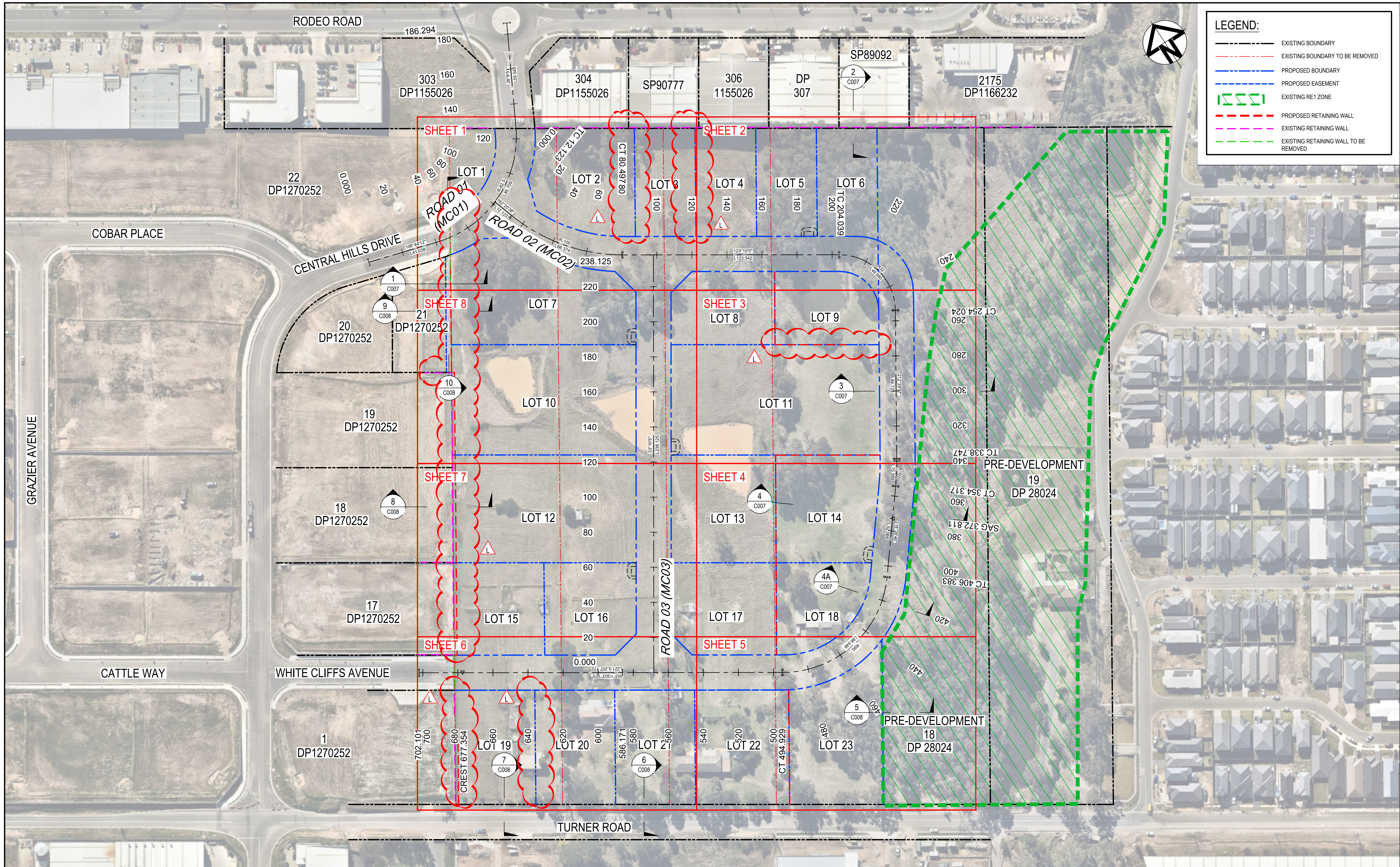
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Height Datum	AHD

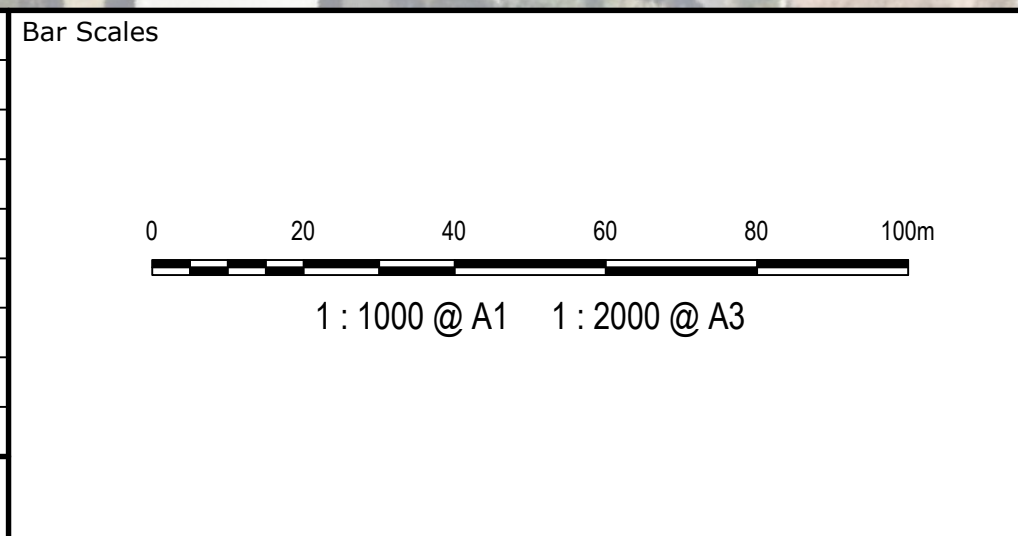
Drawn	JH
Designed	JH
Checked	Ala
Approved	
Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	GENERAL NOTES

Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C002	Issue L





M	ISSUED FOR DA	23-01-23
L	ISSUED FOR DA	13-01-23
K	ISSUED FOR DA	07-11-22
H	ISSUED FOR DA	30-08-22
G	ISSUED FOR DA APPROVAL	29-06-22
F	ISSUED FOR DA APPROVAL	22-04-22
E	ISSUED FOR DA APPROVAL	20-04-22
D	ISSUED FOR DA APPROVAL	12-04-22
C	ADDED SECTION 4A	22-02-22
Issue	Description	Date



Client

TURNER ROAD INDUSTRIAL PTY LTD

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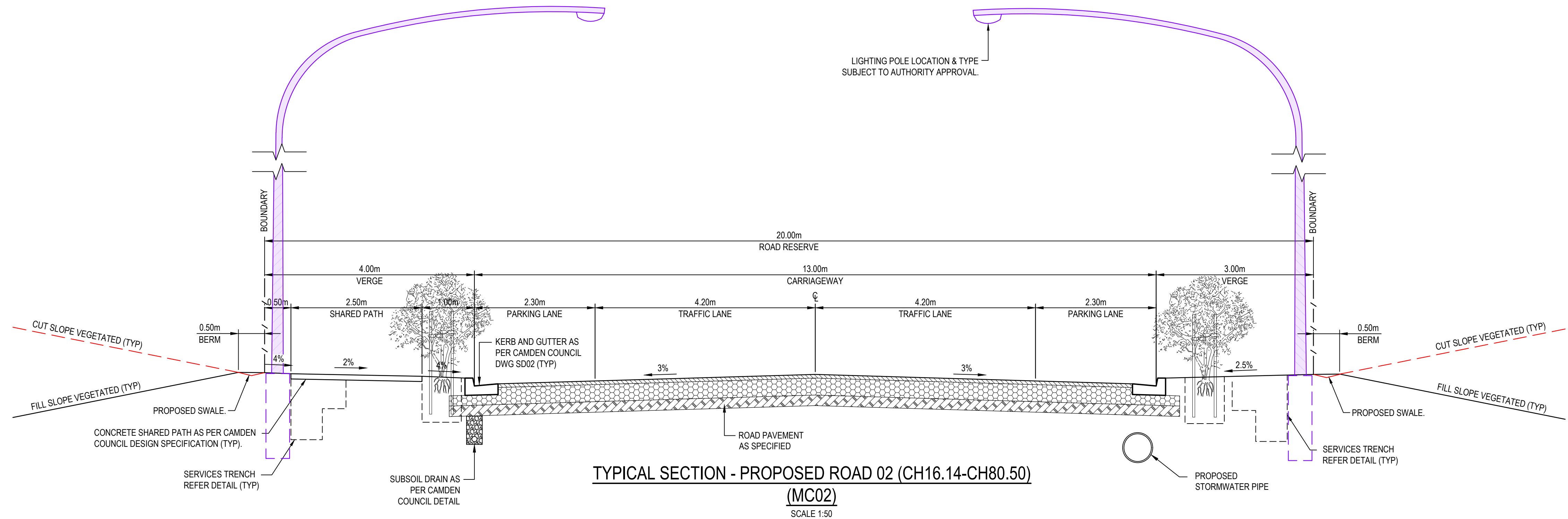
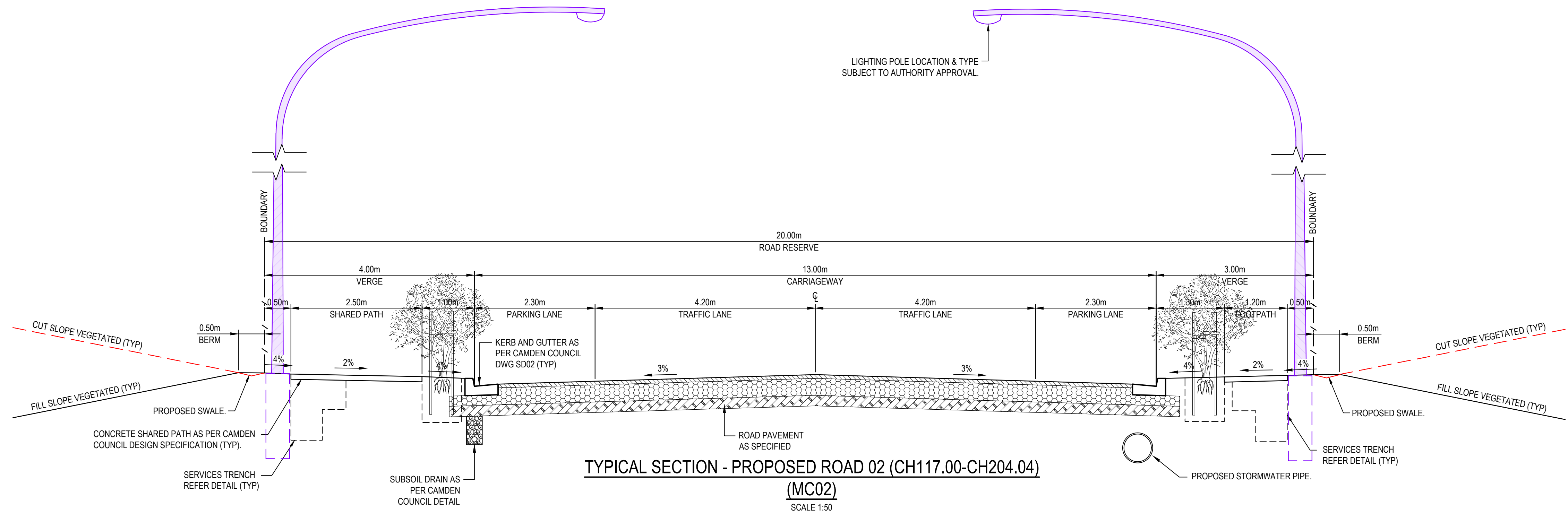
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Height Datum	AHD

Drawn	JH
Designed	JH
Checked	ALa
Approved	

Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	GENERAL ARRANGEMENT PLAN

Civil Engineers and Project Managers		
<b>at&amp;I</b>		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C003	Issue M





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K	ISSUED FOR DA	13-01-23
J	ISSUED FOR DA	07-11-22
G	ISSUED FOR DA	30-08-22
F	ISSUED FOR DA APPROVAL	29-06-22
E	ISSUED FOR DA APPROVAL	22-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
B	ISSUED FOR APPROVAL	04-11-21
Issue	Description	Date

Bar Scales

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1

2

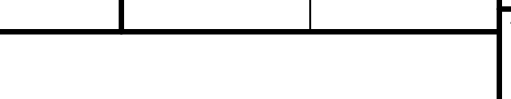
3

4


5m

1 : 50 @ A1   1 : 100 @ A3

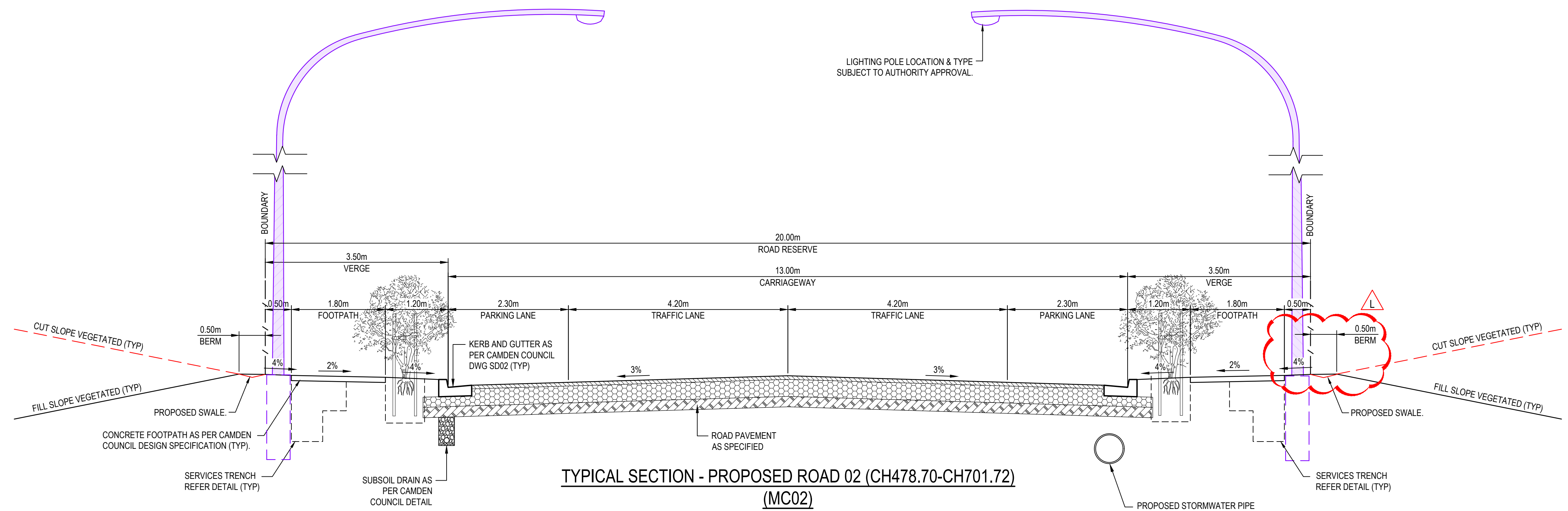
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Scales	1:50	Drawn	JH
		Designed	JH
Grid	GDA 2020	Checked	ALa
Height Datum	AHD	Approved	
			

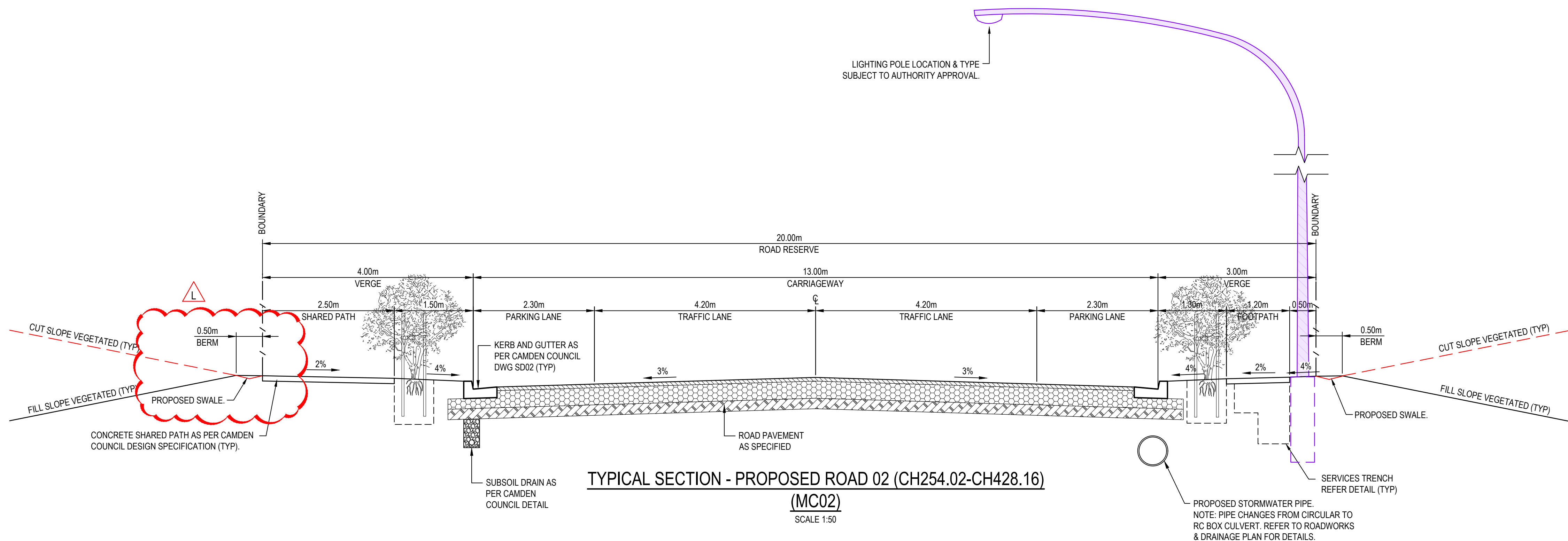
Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	TYPICAL ROAD CROSS SECTIONS SHEET 1

Civil Engineers and Project Managers		
		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C004	Issue L



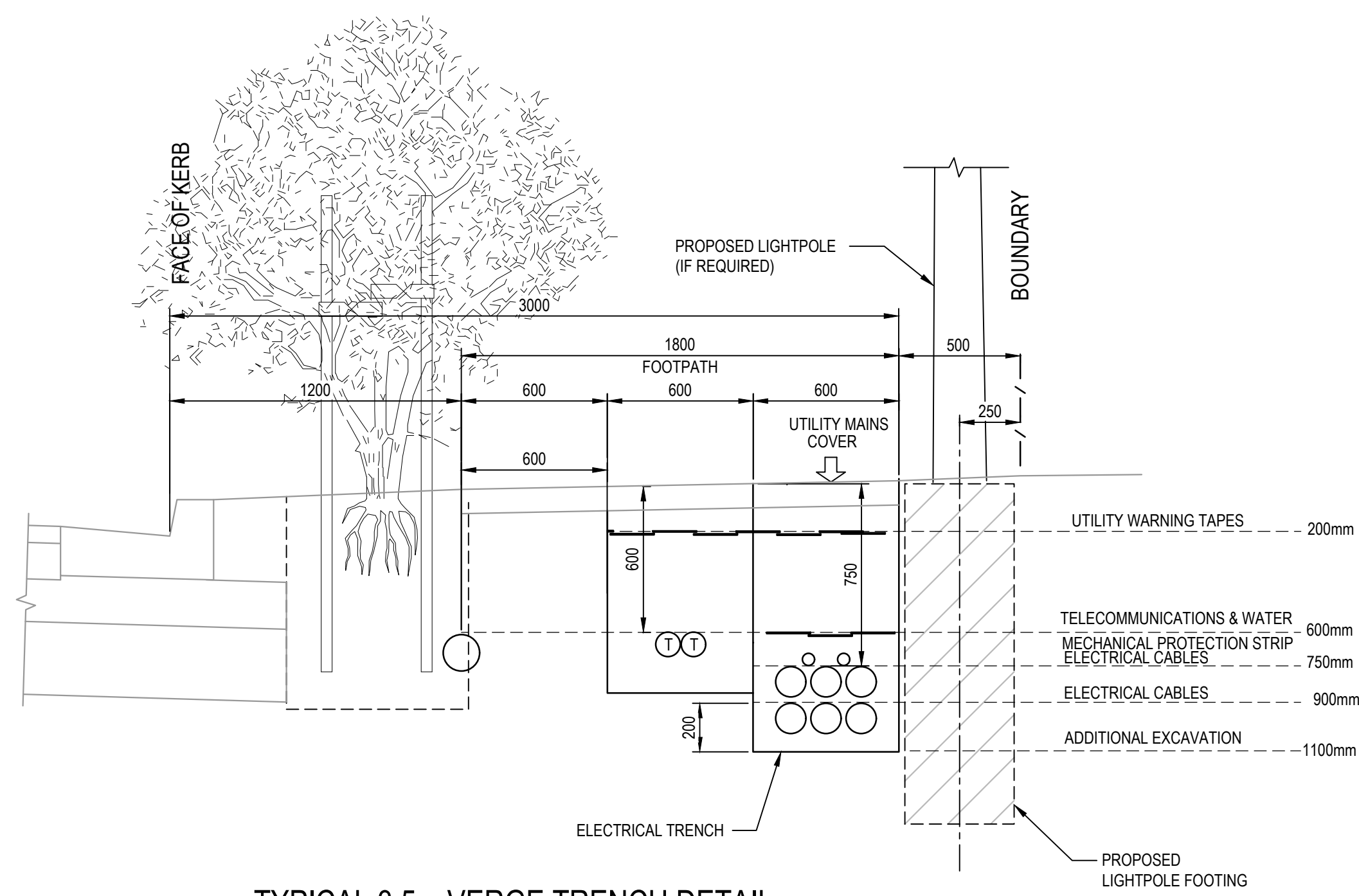


TYPICAL SECTION - PROPOSED ROAD 03 (CH20.00-CH220.00)  
(MC03)  
SCALE 1:50

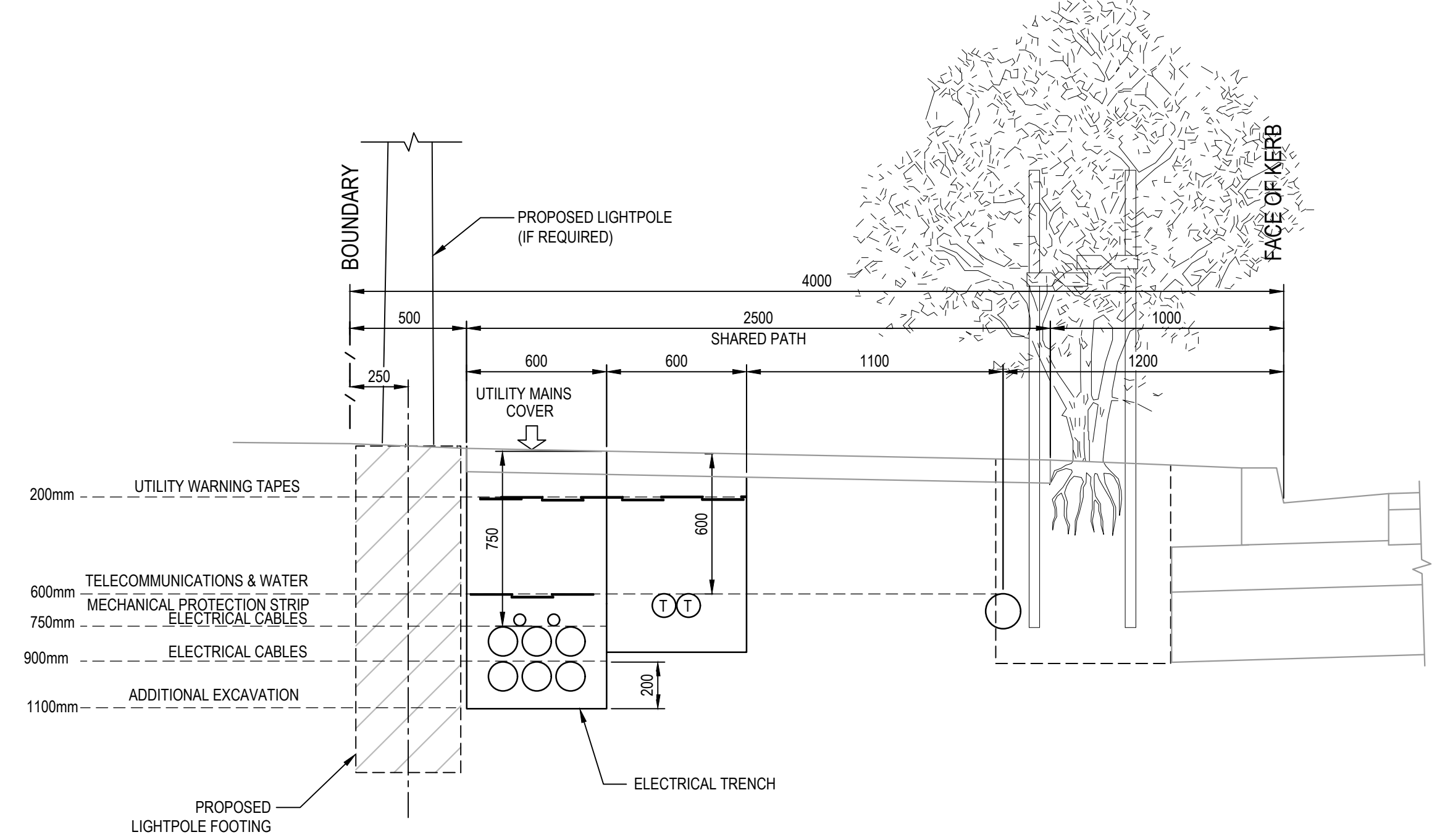


L	ISSUED FOR DA	23-01-23	<div>Bar Scales</div> <div></div>	Client  TURNER ROAD INDUSTRIAL PTY LTD  THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT WRITTEN PERMISSION OF AT&L	Scales  1:50  Grid GDA 2020  Height Datum AHD	Drawn	JH	Project  43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE	<div>Civil Engineers and Project Managers</div> <div></div> <div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</div>		
K	ISSUED FOR DA	13-01-23				Designed	JH				
J	ISSUED FOR DA	07-11-22				Checked	ALa			Approved	
G	ISSUED FOR DA	30-08-22						Title  TYPICAL ROAD CROSS SECTIONS SHEET 2			
F	ISSUED FOR DA APPROVAL	29-06-22									
E	ISSUED FOR DA APPROVAL	22-04-22									
D	ISSUED FOR DA APPROVAL	20-04-22									
C	ISSUED FOR DA APPROVAL	12-04-22						Status		ISSUED FOR DA NOT FOR CONSTRUCTION	A1
B	ISSUED FOR APPROVAL	04-11-21						Project - Drawing No.		21-889-C005	Issue
Issue	Description	Date									

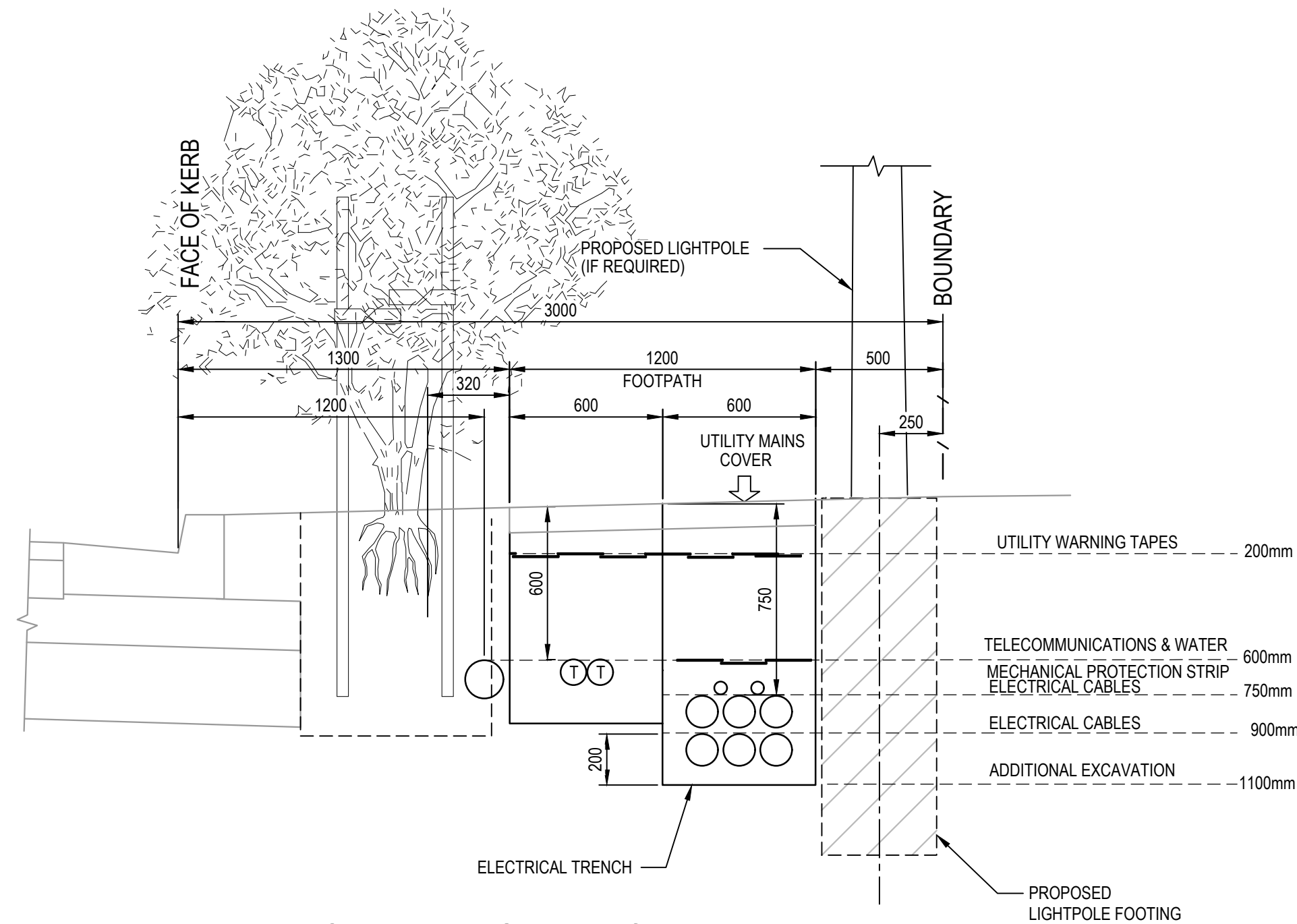




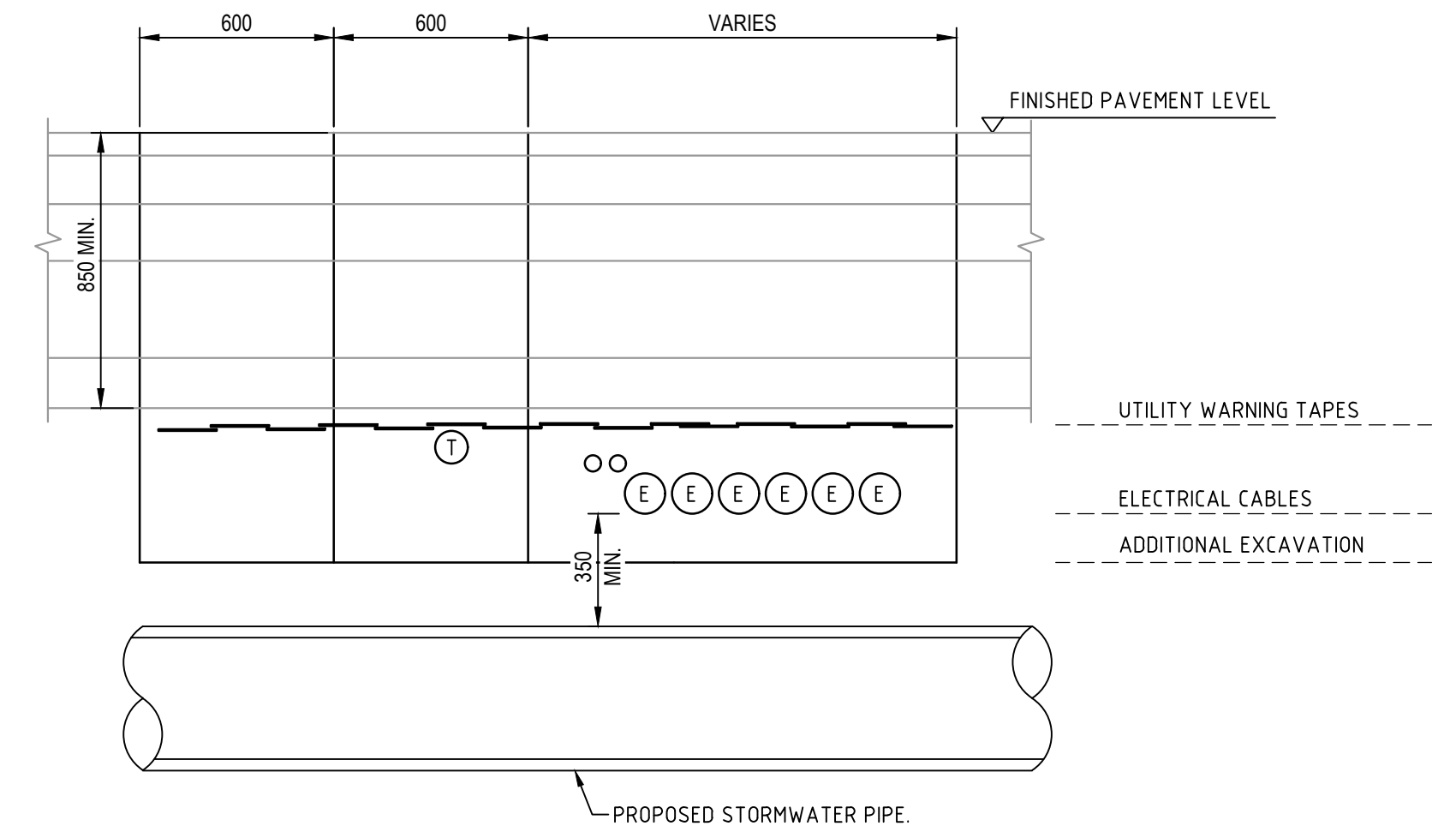
**TYPICAL 3.5m VERGE TRENCH DETAIL**  
SCALE 1:20



**TYPICAL 4m VERGE TRENCH DETAIL**  
SCALE 1:20




**TYPICAL 3m VERGE TRENCH DETAIL**  
SCALE 1:20



**TYPICAL SERVICES TRENCH DETAIL  
(ROAD CROSSING)**  
SCALE 1:20

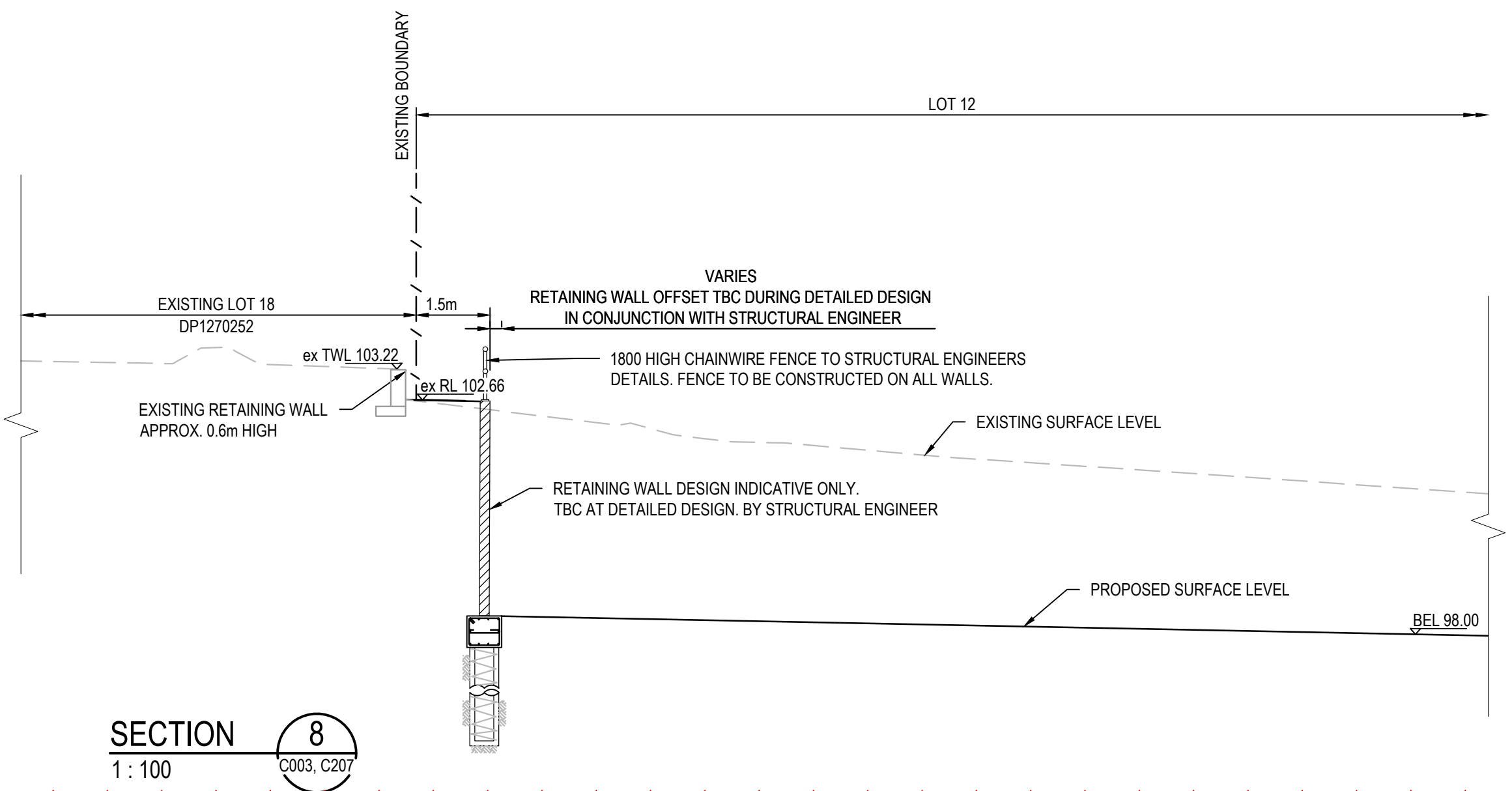
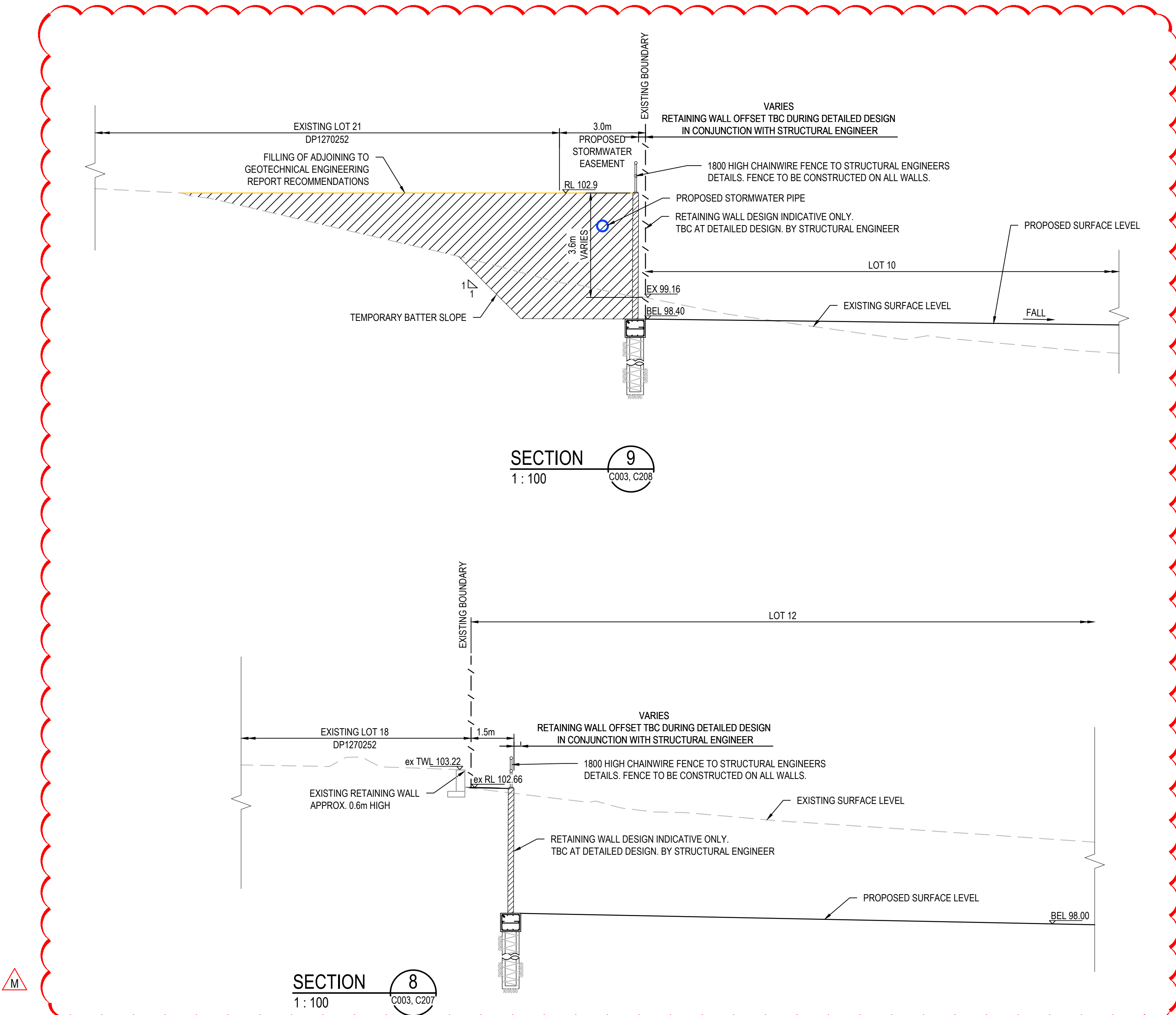
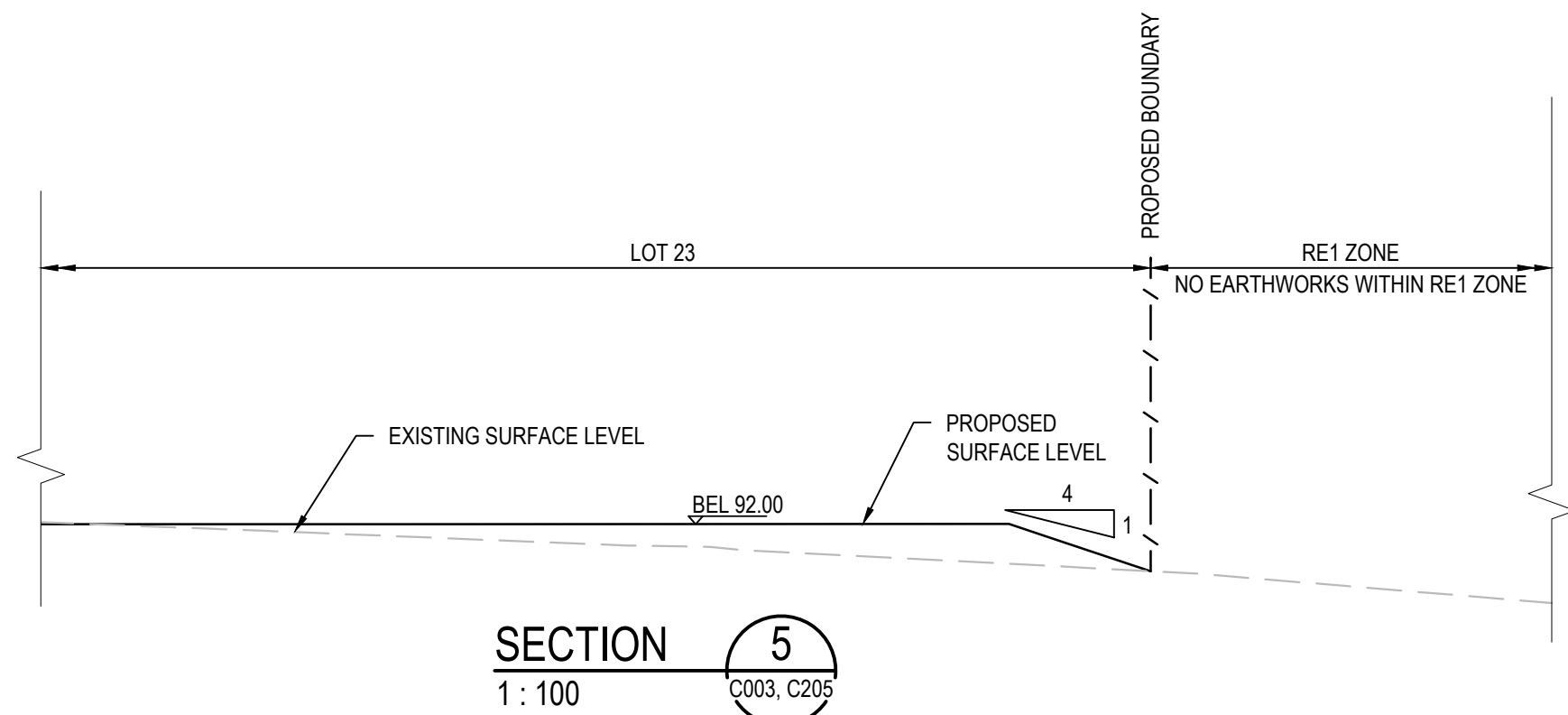
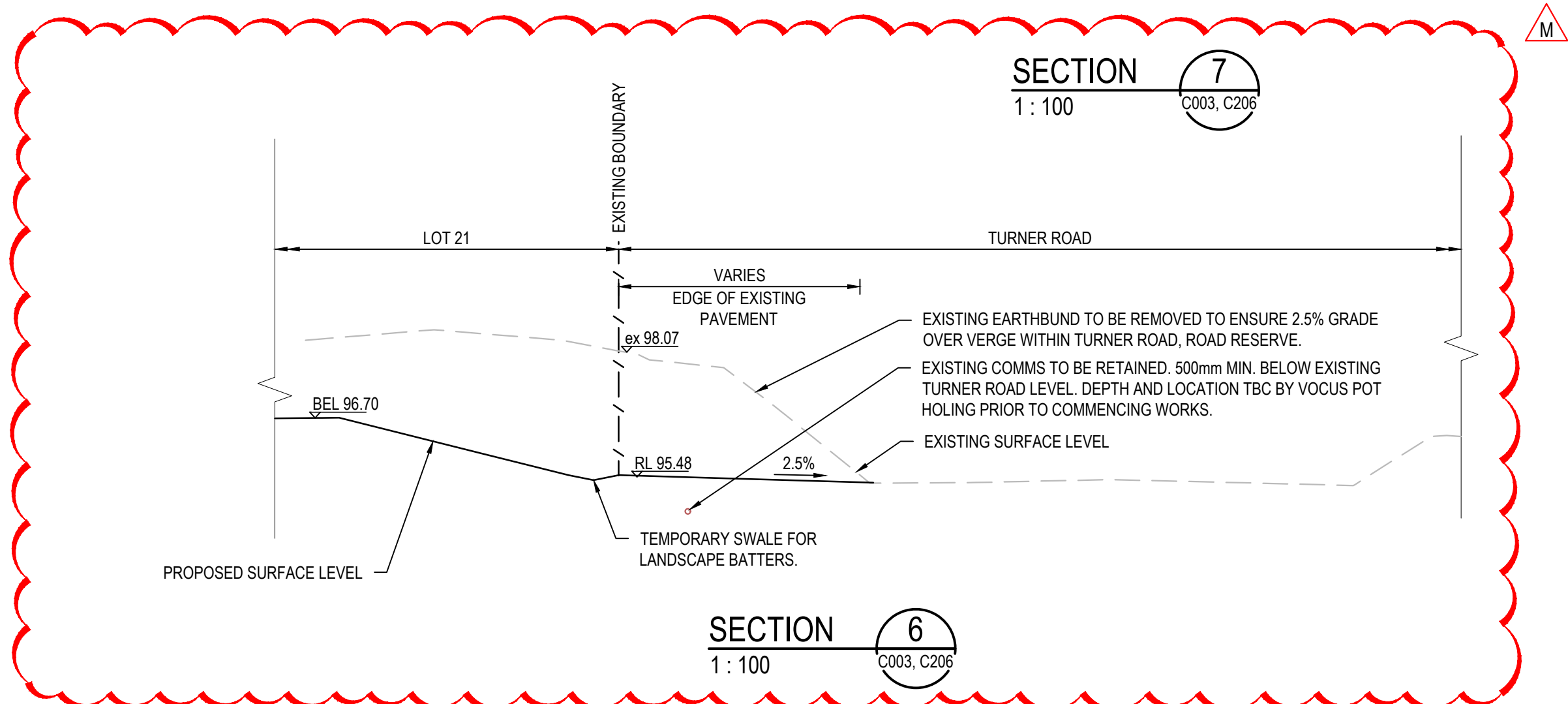
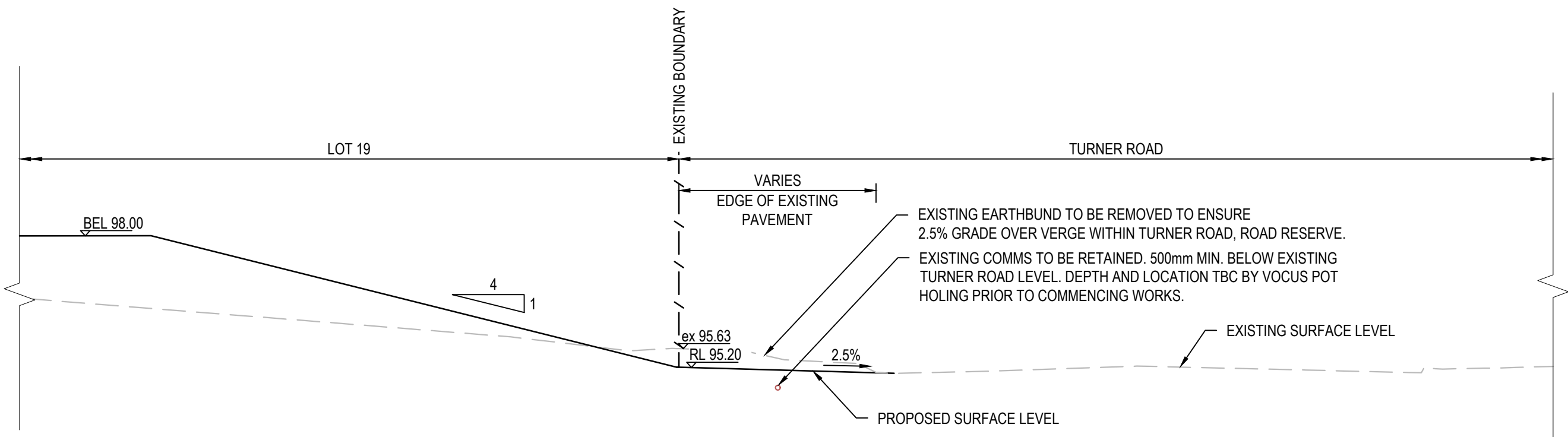
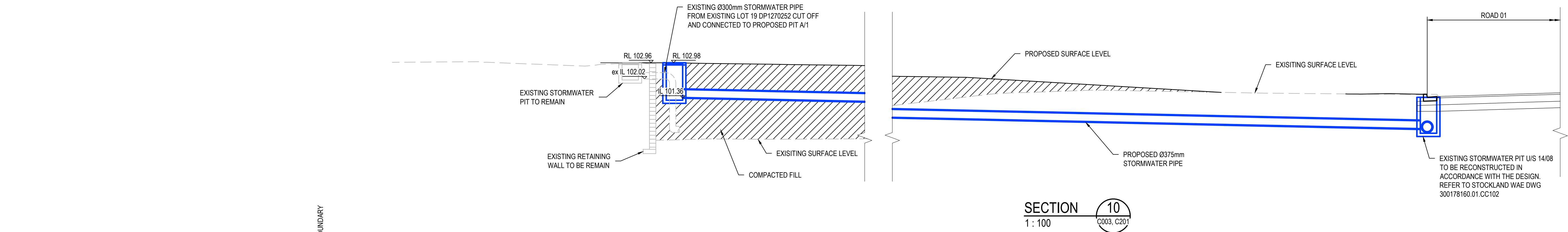
NOTE: WHERE SPARE ROAD CROSSINGS ARE INSTALLED, EXTEND DUCTS  
1m PAST FACE OF KERB

L	ISSUED FOR DA	23-01-23	<div>Bar Scales</div> <div><div><div>0</div><div>500</div><div>1000</div><div>1500</div><div>2000mm</div></div><div>1 : 20 @ A1    1 : 40 @ A3</div></div>	Client  TURNER ROAD INDUSTRIAL PTY LTD  THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT WRITTEN PERMISSION OF AT&L	Scales  1:20	Drawn	JH	Project  43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE	Civil Engineers and Project Managers  <div>at&amp;l</div> <div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</div>			
K	ISSUED FOR DA	13-01-23				Designed	JH					
J	ISSUED FOR DA	07-11-22				Checked	ALa					
G	ISSUED FOR DA	30-08-22			Grid	GDA 2020	Approved		Title  TYPICAL ROAD VERGE SECTIONS	Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
F	ISSUED FOR DA APPROVAL	29-06-22			Height Datum	AHD	<div></div>	Project - Drawing No.		21-889-C006	Issue	L
E	ISSUED FOR DA APPROVAL	22-04-22										
D	ISSUED FOR DA APPROVAL	20-04-22										
C	ISSUED FOR DA APPROVAL	12-04-22										
B	ISSUED FOR APPROVAL	04-11-21										
Issue	Description	Date										

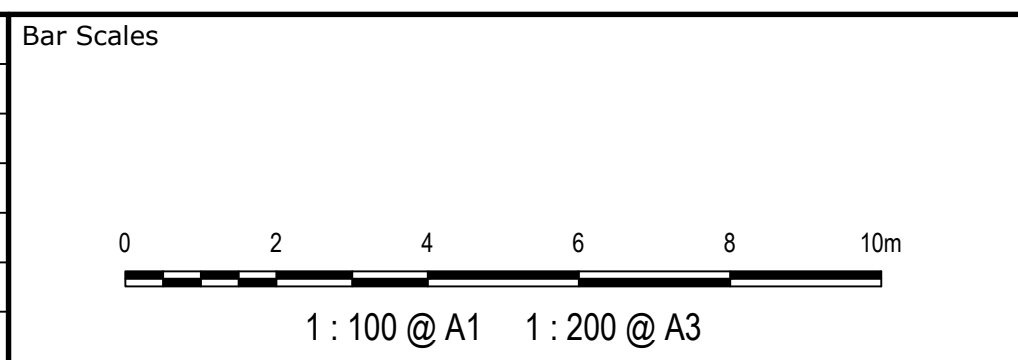








M	ISSUED FOR DA	23-01-23
L	ISSUED FOR DA	13-01-23
K	ISSUED FOR DA	07-11-22
H	ISSUED FOR DA	30-08-22
G	ISSUED FOR DA APPROVAL	29-06-22
F	ISSUED FOR DA APPROVAL	22-04-22
E	ISSUED FOR DA APPROVAL	21-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
Issue	Description	Date



Client  
TURNER ROAD INDUSTRIAL PTY LTD

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Scales 1:250	Drawn JH
Grid GDA 2020	Designed JH
Height Datum AHD	Checked ALa
Approved	

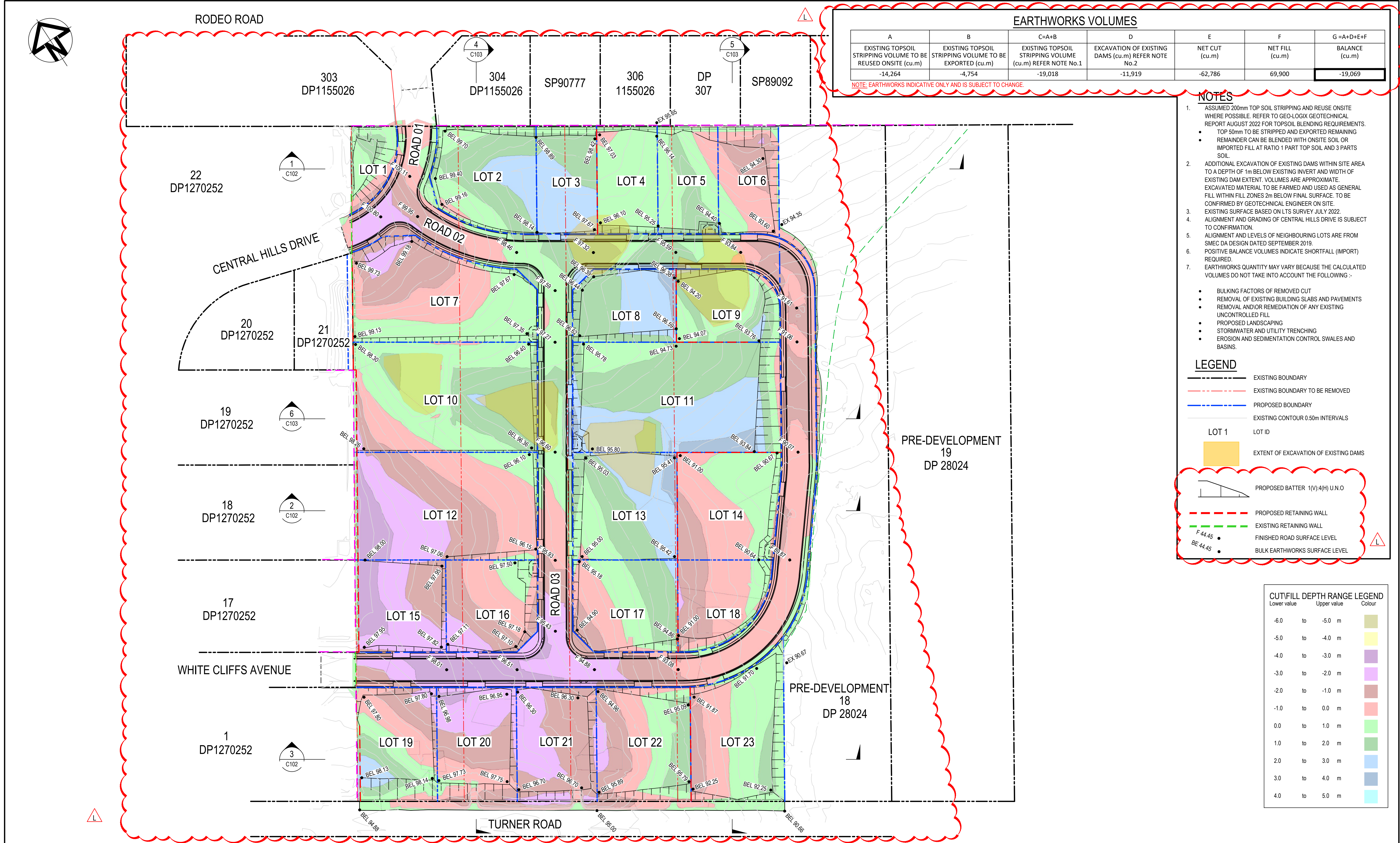
GDA2020

Project  
43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE

Title  
TYPICAL SITE  
SECTIONS  
SHEET 2

Civil Engineers and Project Managers	
<b>at&amp;l</b> Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No. 21-889-C008	Issue M





EARTHWORKS VOLUMES						
A	B	C=A+B	D	E	F	G =A+D+E+F
EXISTING TOPSOIL STRIPPING VOLUME TO BE REUSED ONSITE (cu.m)	EXISTING TOPSOIL STRIPPING VOLUME TO BE EXPORTED (cu.m)	EXISTING TOPSOIL STRIPPING VOLUME (cu.m) REFER NOTE No.1	EXCAVATION OF EXISTING DAMS (cu.m) REFER NOTE No.2	NET CUT (cu.m)	NET FILL (cu.m)	BALANCE (cu.m)
-14,264	-4,754	-19,018	-11,919	-62,786	69,900	-19,069

NOTE: EARTHWORKS INDICATIVE ONLY AND IS SUBJECT TO CHANGE.

- NOTES
1. ASSUMED 200mm TOP SOIL STRIPPING AND REUSE ONSITE WHERE POSSIBLE. REFER TO GEO-LOGIX GEOTECHNICAL REPORT AUGUST 2022 FOR TOPSOIL BLENDING REQUIREMENTS.
    - TOP 50mm TO BE STRIPPED AND EXPORTED REMAINING
    - REMAINDER CAN BE BLENDED WITH ONSITE SOIL OR IMPORTED FILL AT RATIO 1 PART TOP SOIL AND 3 PARTS SOIL.
  2. ADDITIONAL EXCAVATION OF EXISTING DAMS WITHIN SITE AREA TO A DEPTH OF 1m BELOW EXISTING INVERT AND WIDTH OF EXISTING DAM EXTENT. VOLUMES ARE APPROXIMATE. EXCAVATED MATERIAL TO BE FARMED AND USED AS GENERAL FILL WITHIN FILL ZONES 2m BELOW FINAL SURFACE. TO BE CONFIRMED BY GEOTECHNICAL ENGINEER ON SITE.
  3. EXISTING SURFACE BASED ON LTS SURVEY JULY 2022.
  4. ALIGNMENT AND GRADING OF CENTRAL HILLS DRIVE IS SUBJECT TO CONFIRMATION.
  5. ALIGNMENT AND LEVELS OF NEIGHBOURING LOTS ARE FROM SMIEC DA DESIGN DATED SEPTEMBER 2019.
  6. POSITIVE BALANCE VOLUMES INDICATE SHORTFALL (IMPORT) REQUIRED.
  7. EARTHWORKS QUANTITY MAY VARY BECAUSE THE CALCULATED VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING :-
    - BULKING FACTORS OF REMOVED CUT
    - REMOVAL OF EXISTING BUILDING SLABS AND PAVEMENTS
    - REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
    - PROPOSED LANDSCAPING
    - STORMWATER AND UTILITY TRENCHING
    - EROSION AND SEDIMENTATION CONTROL SWALES AND BASINS.

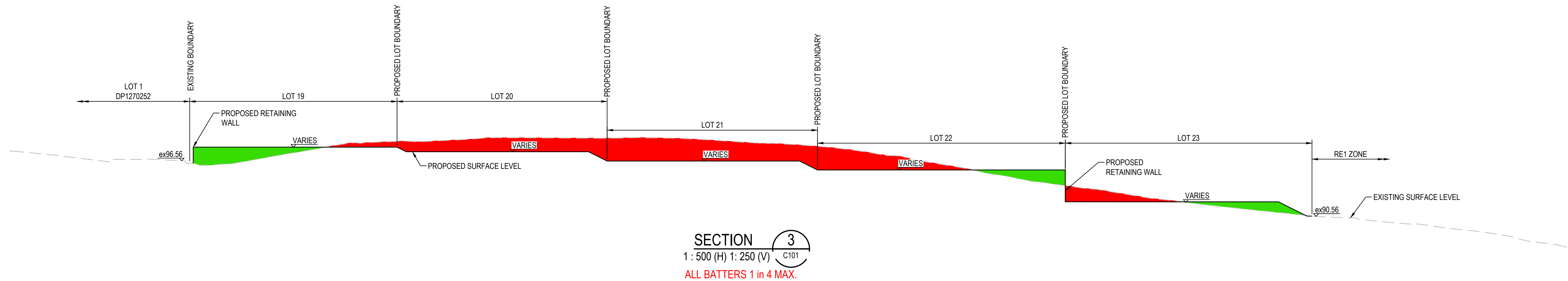
LEGEND

- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- PROPOSED BOUNDARY
- EXISTING CONTOUR 0.50m INTERVALS
- LOT 1 LOT ID
- EXTENT OF EXCAVATION OF EXISTING DAMS
- PROPOSED BATTER 1(V):4(H) U.N.O
- PROPOSED RETAINING WALL
- EXISTING RETAINING WALL
- FINISHED ROAD SURFACE LEVEL
- BULK EARTHWORKS SURFACE LEVEL

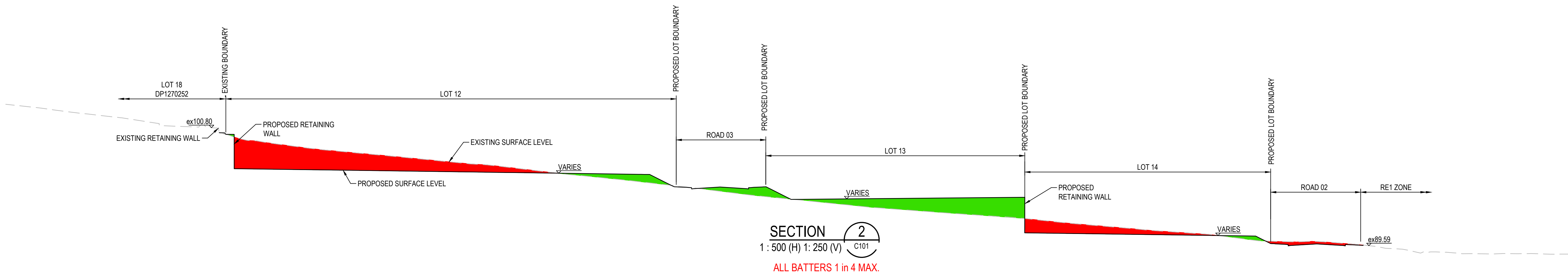
CUT/FILL DEPTH RANGE LEGEND		
Lower value	Upper value	Colour
-6.0	to -5.0 m	
-5.0	to -4.0 m	
-4.0	to -3.0 m	
-3.0	to -2.0 m	
-2.0	to -1.0 m	
-1.0	to 0.0 m	
0.0	to 1.0 m	
1.0	to 2.0 m	
2.0	to 3.0 m	
3.0	to 4.0 m	
4.0	to 5.0 m	

<table><tr><td>L</td><td>ISSUED FOR DA</td><td>23-01-23</td></tr><tr><td>K</td><td>ISSUED FOR DA</td><td>13-01-23</td></tr><tr><td>J</td><td>ISSUED FOR DA</td><td>07-11-22</td></tr><tr><td>G</td><td>ISSUED FOR DA</td><td>30-08-22</td></tr><tr><td>F</td><td>ISSUED FOR DA APPROVAL</td><td>29-06-22</td></tr><tr><td>E</td><td>ISSUED FOR DA APPROVAL</td><td>22-04-22</td></tr><tr><td>D</td><td>ISSUED FOR DA APPROVAL</td><td>20-04-22</td></tr><tr><td>C</td><td>ISSUED FOR DA APPROVAL</td><td>12-04-22</td></tr><tr><td>B</td><td>ISSUED FOR APPROVAL</td><td>04-11-21</td></tr><tr><td>Issue</td><td>Description</td><td>Date</td></tr></table>	L	ISSUED FOR DA	23-01-23	K	ISSUED FOR DA	13-01-23	J	ISSUED FOR DA	07-11-22	G	ISSUED FOR DA	30-08-22	F	ISSUED FOR DA APPROVAL	29-06-22	E	ISSUED FOR DA APPROVAL	22-04-22	D	ISSUED FOR DA APPROVAL	20-04-22	C	ISSUED FOR DA APPROVAL	12-04-22	B	ISSUED FOR APPROVAL	04-11-21	Issue	Description	Date	<p>Bar Scales</p> <p>0 20 40 60 80 100m</p> <p>1 : 1000 @ A1 1 : 2000 @ A3</p>	<p>Client</p> <p>TURNER ROAD INDUSTRIAL PTY LTD</p> <p>THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT WRITTEN PERMISSION OF AT&amp;L</p>	<p>Scales</p> <p>1:1000</p> <p>Grid GDA 2020</p> <p>Height Datum AHD</p> <p>Drawn JH</p> <p>Designed JH</p> <p>Checked ALa</p> <p>Approved</p> <p>GDA2020</p>	<p>Project</p> <p>43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE</p> <p>BULK EARTHWORKS PLAN</p>	<p>Civil Engineers and Project Managers</p> <p>at&amp;l</p> <p>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</p> <table><tr><td>Status</td><td>ISSUED FOR DA NOT FOR CONSTRUCTION</td><td>A1</td></tr><tr><td>Project - Drawing No.</td><td>21-889-C101</td><td>Issue L</td></tr></table>	Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1	Project - Drawing No.	21-889-C101	Issue L
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K	ISSUED FOR DA	13-01-23																																							
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Project - Drawing No.	21-889-C101	Issue L																																							

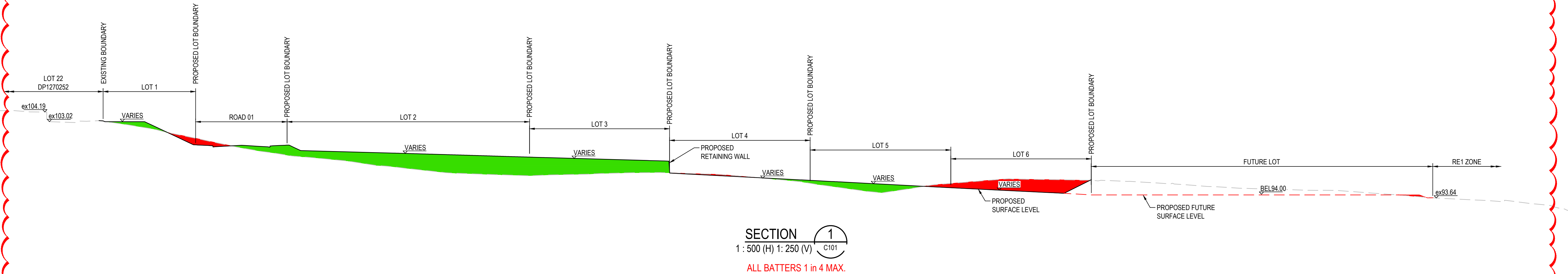




SECTION 3  
1 : 500 (H) 1 : 250 (V) C101  
ALL BATTERS 1 in 4 MAX.



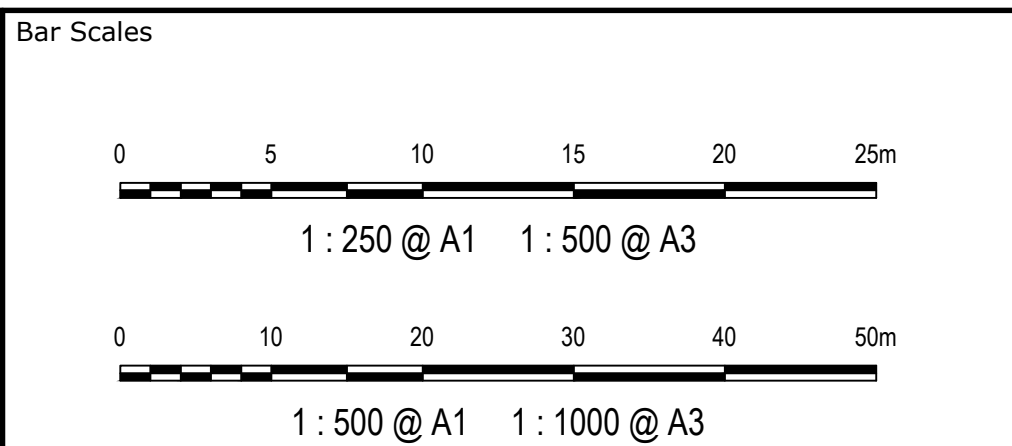
SECTION 2  
1 : 500 (H) 1 : 250 (V) C101  
ALL BATTERS 1 in 4 MAX.



SECTION 1  
1 : 500 (H) 1 : 250 (V) C101  
ALL BATTERS 1 in 4 MAX.



M	ISSUED FOR DA	23-01-23
L	ISSUED FOR DA	13-01-23
K	ISSUED FOR DA	07-11-22
G	ISSUED FOR DA	30-08-22
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B	ISSUED FOR APPROVAL	04-11-21
Issue	Description	Date



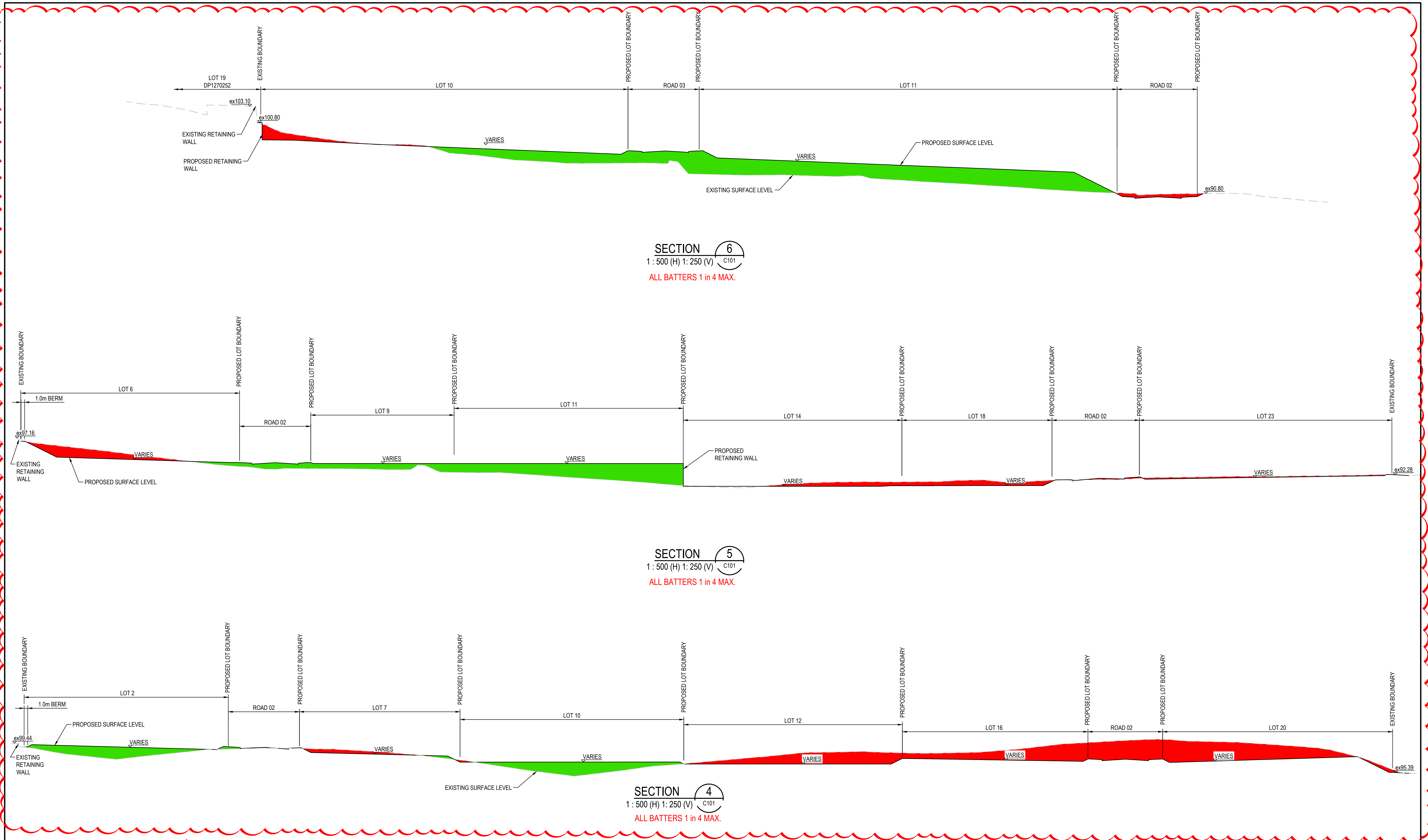
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Scales	1:500 H 1:250 V	Drawn	JH
Grid	GDA 2020	Designed	JH
Height Datum	AHD	Checked	ALa
GDA2020		Approved	

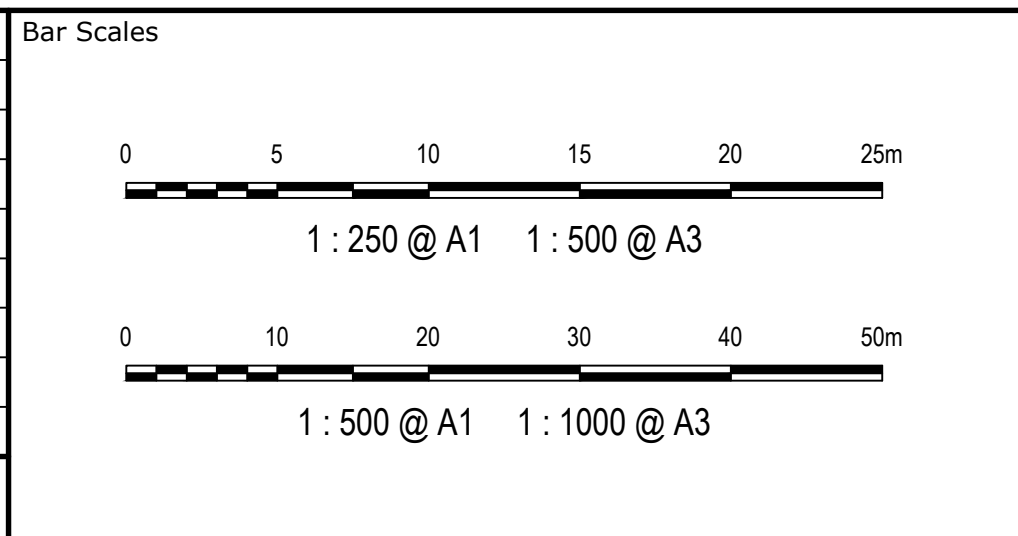
Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	BULK EARTHWORKS SECTIONS SHEET 1

Civil Engineers and Project Managers		
at&L		
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Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C102	Issue M





N	ISSUED FOR DA	23-01-23
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J	ISSUED FOR DA	07-11-22
G	ISSUED FOR DA	30-08-22
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C	ISSUED FOR DA APPROVAL	12-04-22
B	ISSUED FOR APPROVAL	04-11-21
Issue	Description	Date



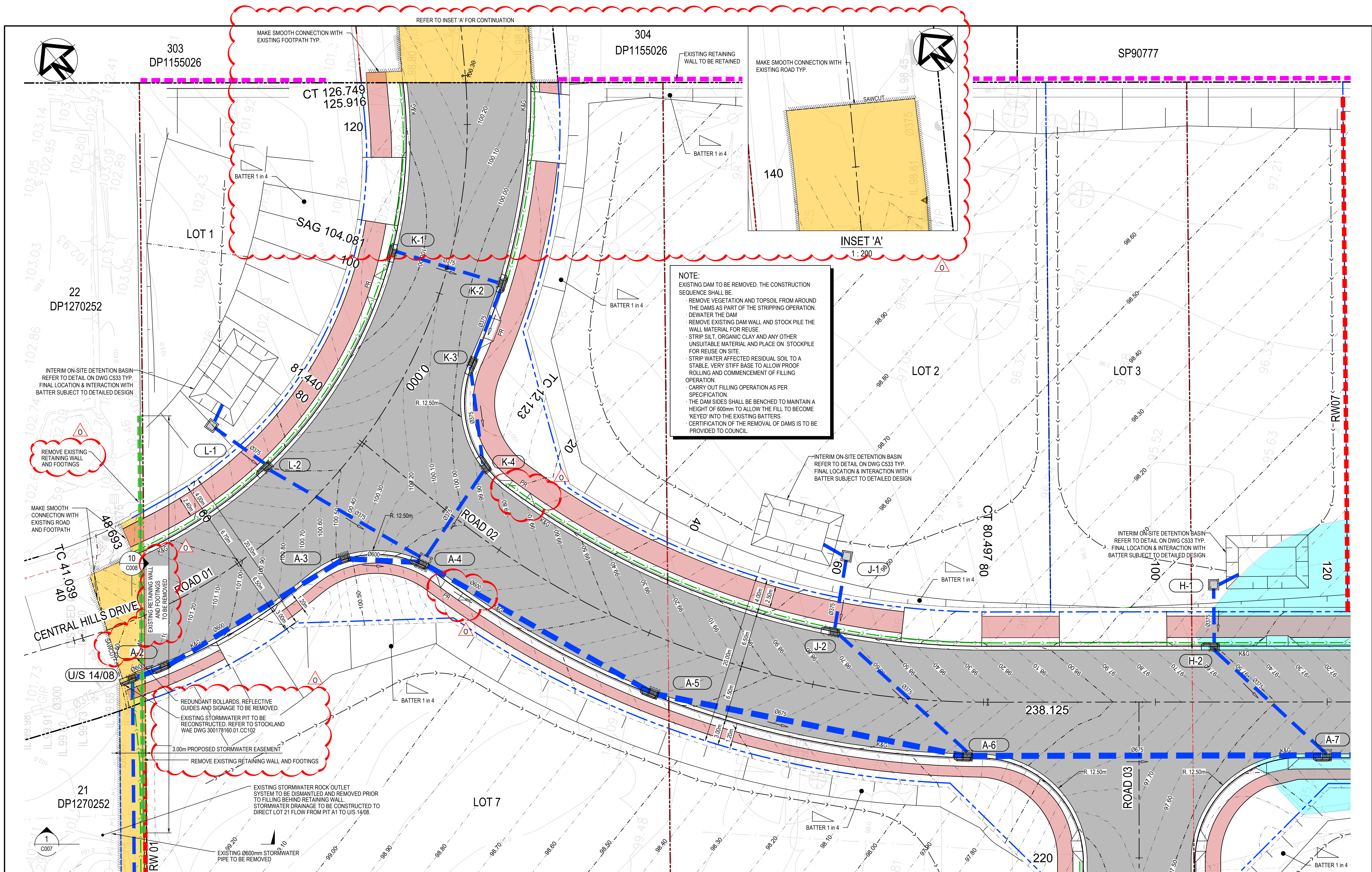
Client	TURNER ROAD INDUSTRIAL PTY LTD
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Scales	1:500 H 1:250 V	Drawn	JH
Grid	GDA 2020	Designed	JH
Height Datum	AHD	Checked	ALa
Approved		GDA2020	

Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	BULK EARTHWORKS SECTIONS SHEET 2

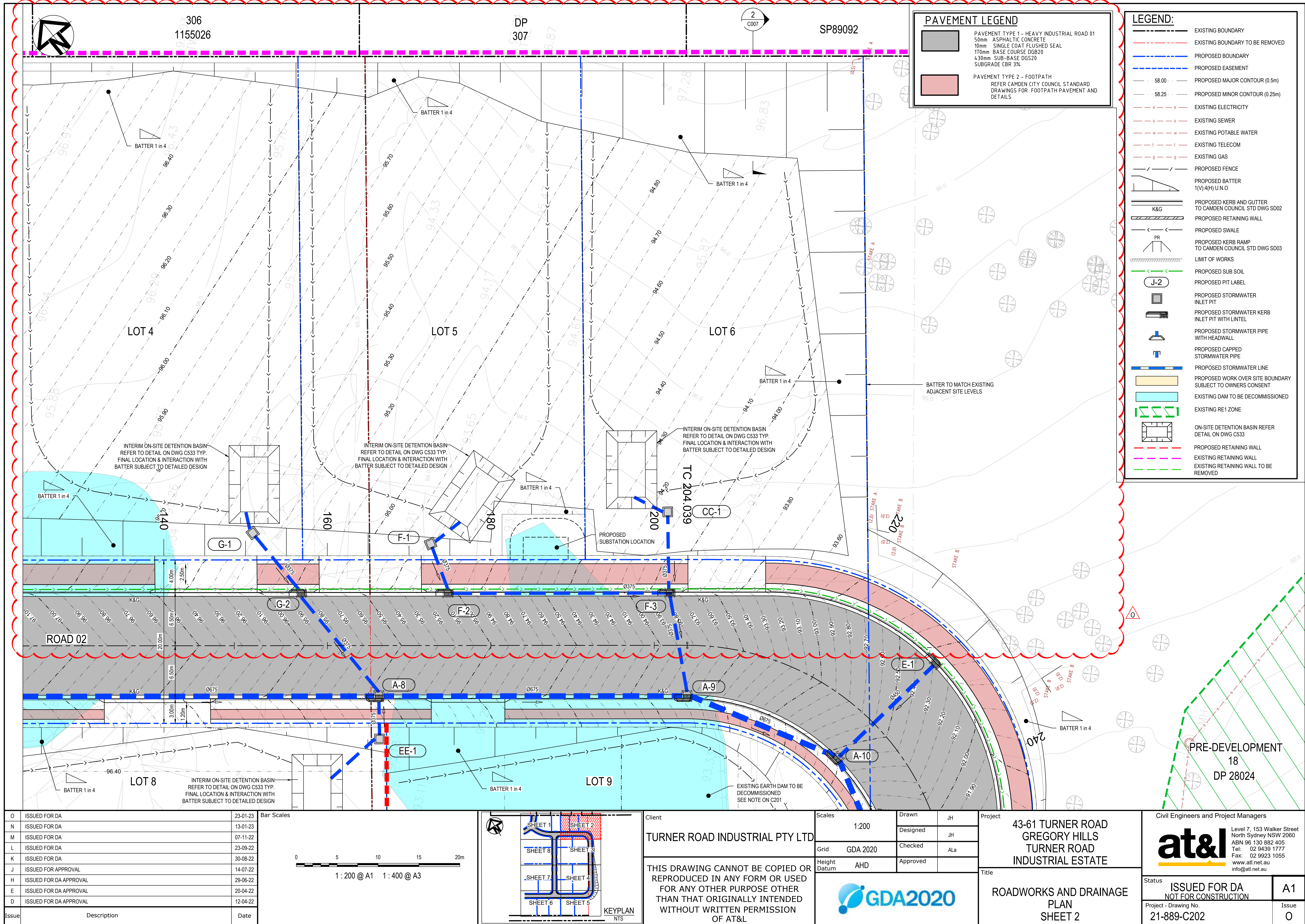
Civil Engineers and Project Managers		
at&L		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
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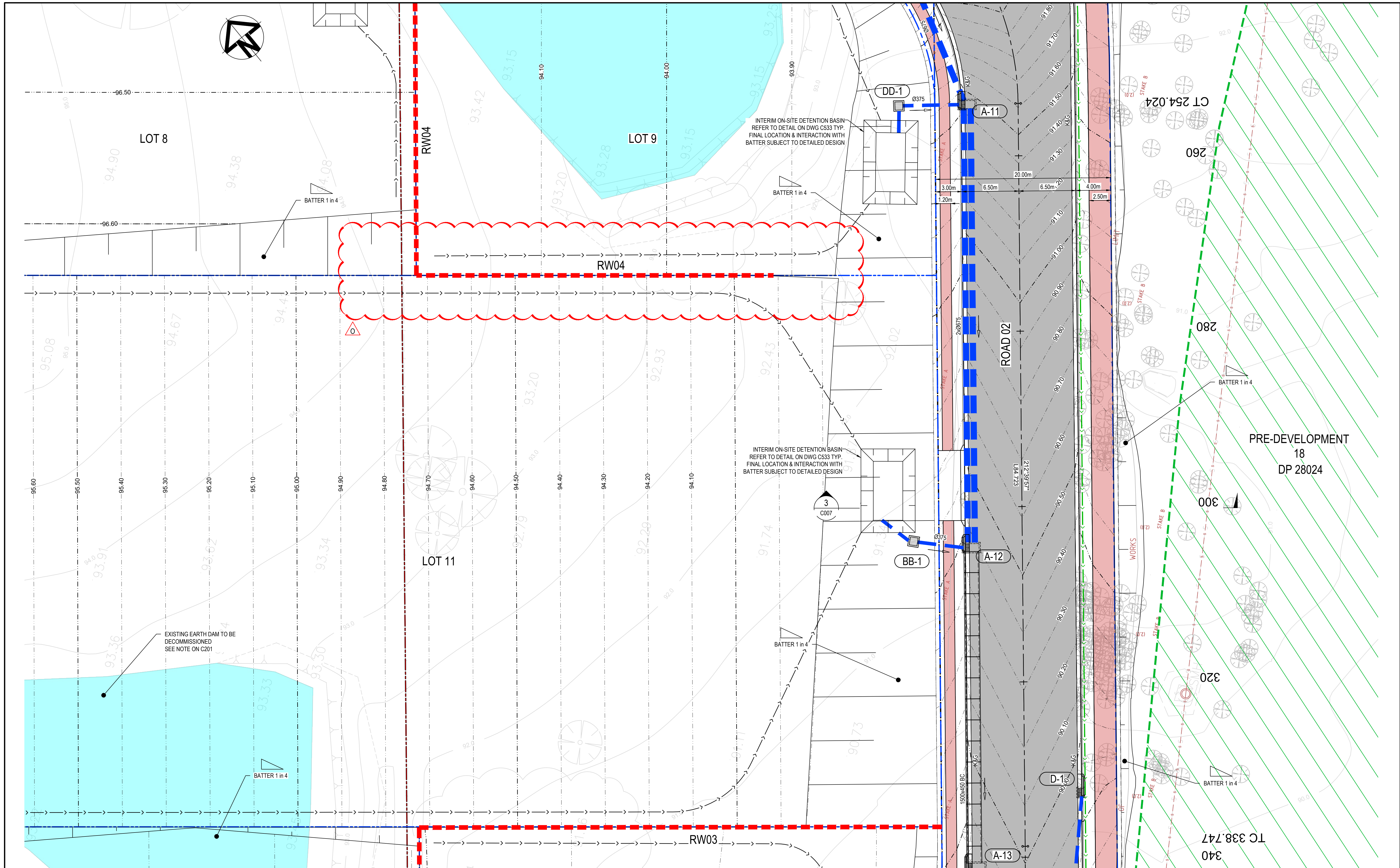


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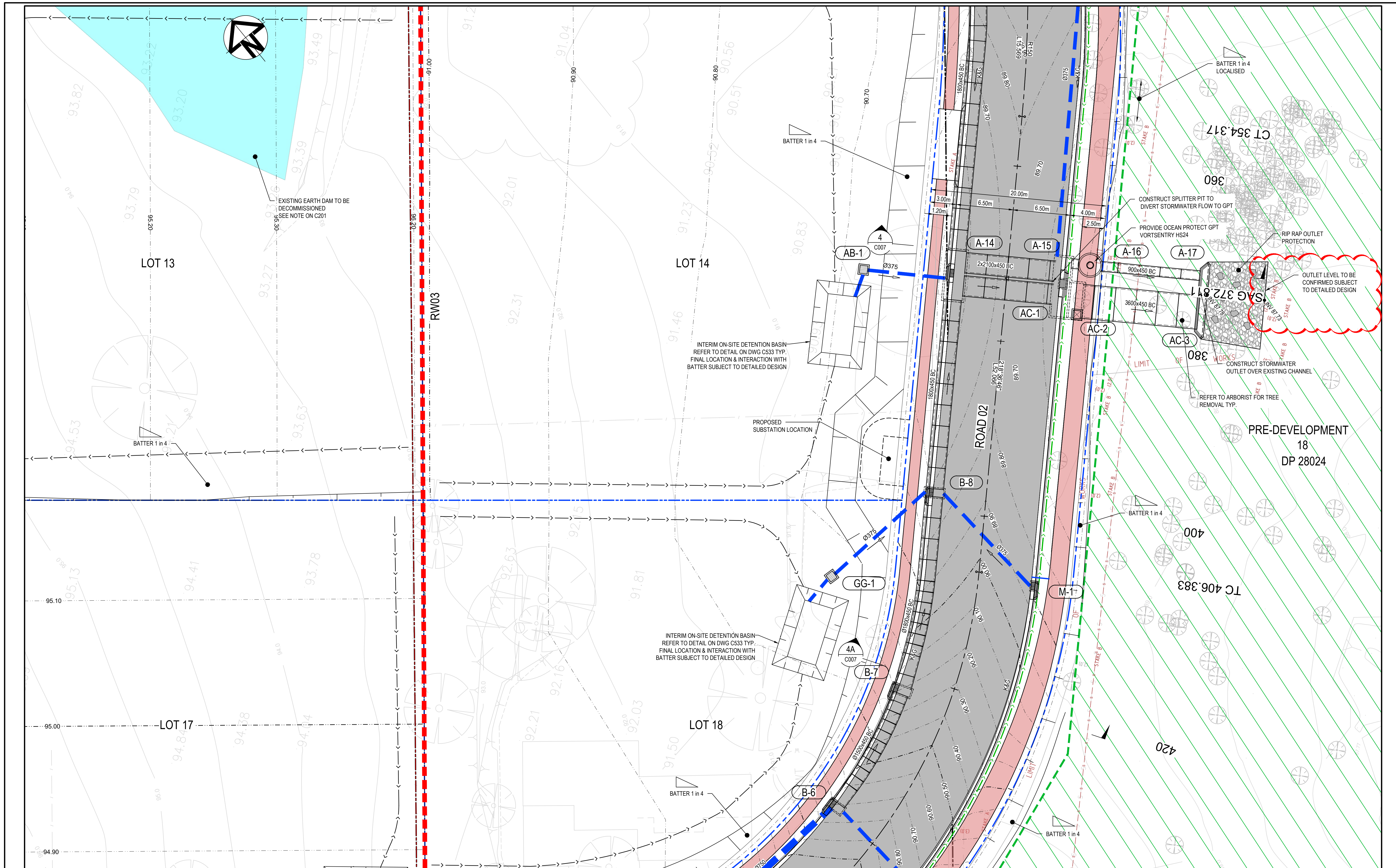




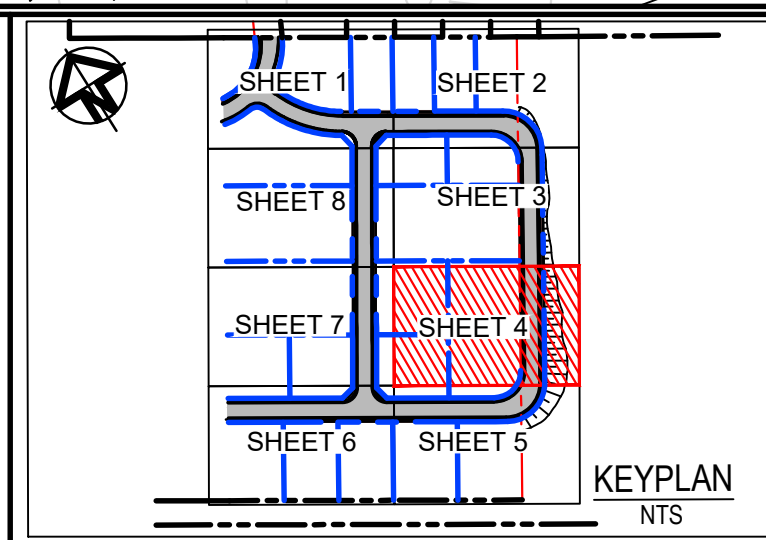
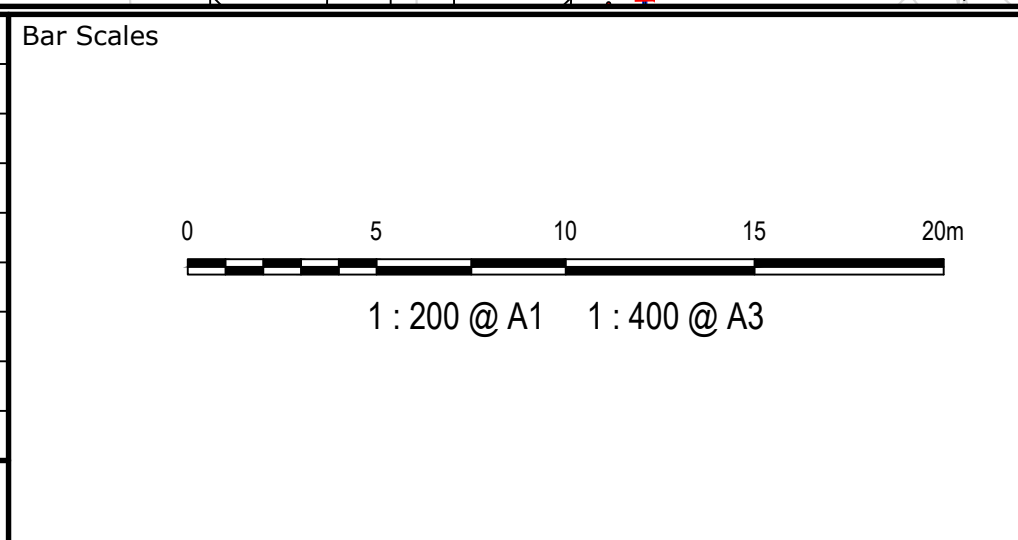








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L	ISSUED FOR DA	23-09-22
K	ISSUED FOR DA	30-08-22
J	ISSUED FOR APPROVAL	14-07-22
H	ISSUED FOR DA APPROVAL	22-04-22
E	ISSUED FOR DA APPROVAL	12-04-22
D	ISSUED FOR APPROVAL	01-04-22
Issue	Description	Date



Client  
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Scales  
1:200

Grid  
GDA 2020

Height Datum  
AHD

Drawn  
JH

Designed  
JH

Checked  
ALa

Approved

**GDA2020**

Project  
**43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE**

Title  
**ROADWORKS AND DRAINAGE  
PLAN  
SHEET 4**

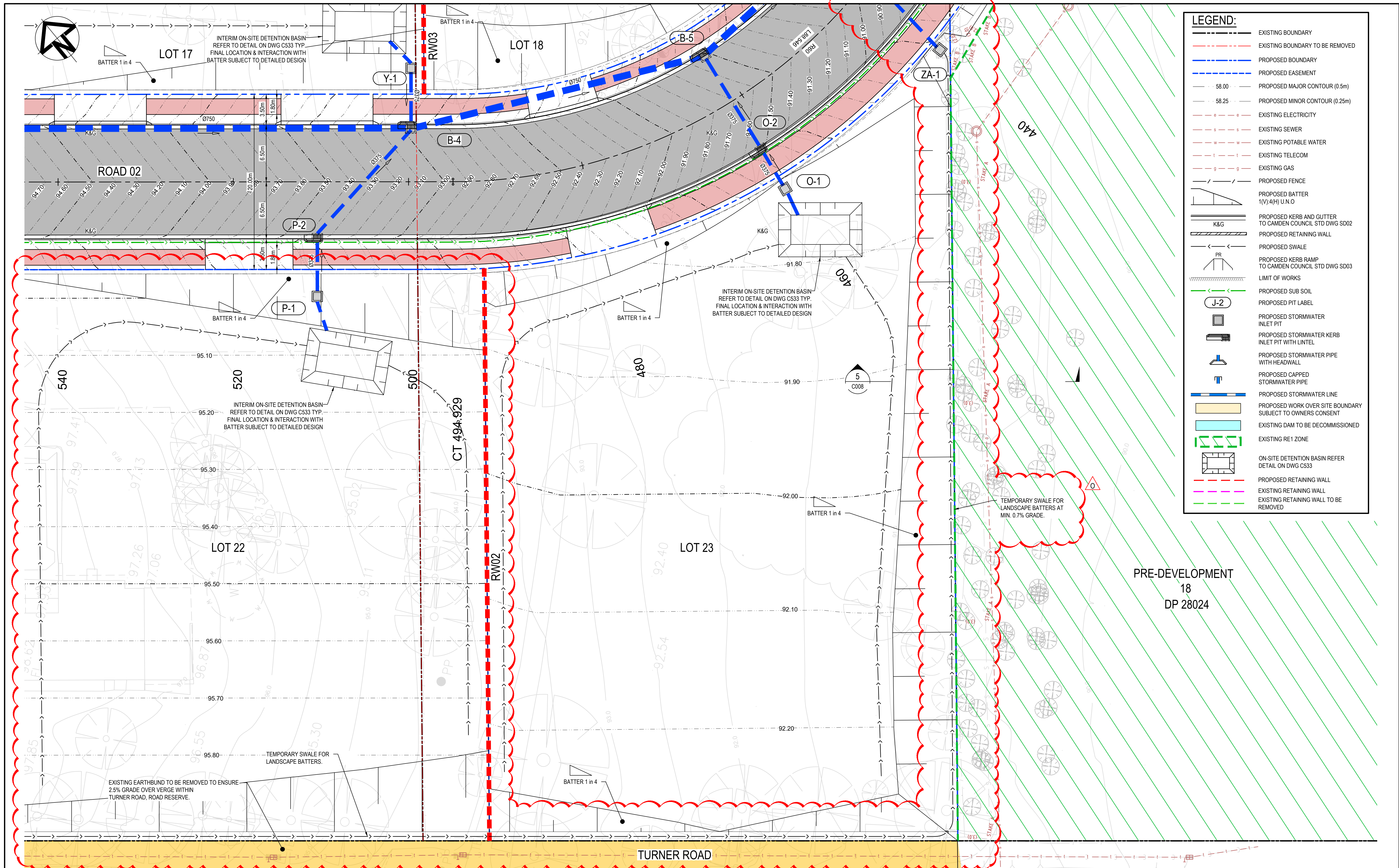
Civil Engineers and Project Managers

**at&l**

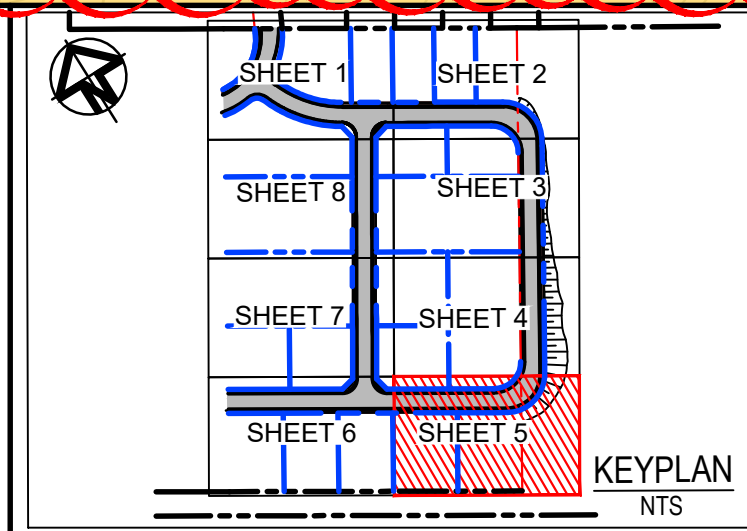
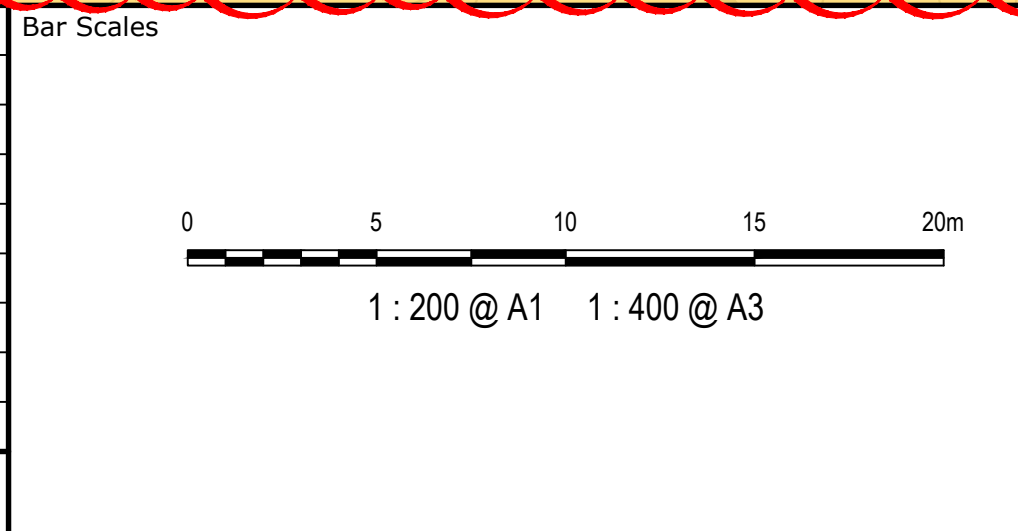
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status <b>ISSUED FOR DA NOT FOR CONSTRUCTION</b>	A1
Project - Drawing No. <b>21-889-C204</b>	Issue <b>0</b>





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L	ISSUED FOR DA	23-09-22
K	ISSUED FOR DA	30-08-22
J	ISSUED FOR APPROVAL	14-07-22
H	ISSUED FOR DA APPROVAL	29-06-22
E	ISSUED FOR DA APPROVAL	20-04-22
D	ISSUED FOR DA APPROVAL	12-04-22
Issue	Description	Date



Client  
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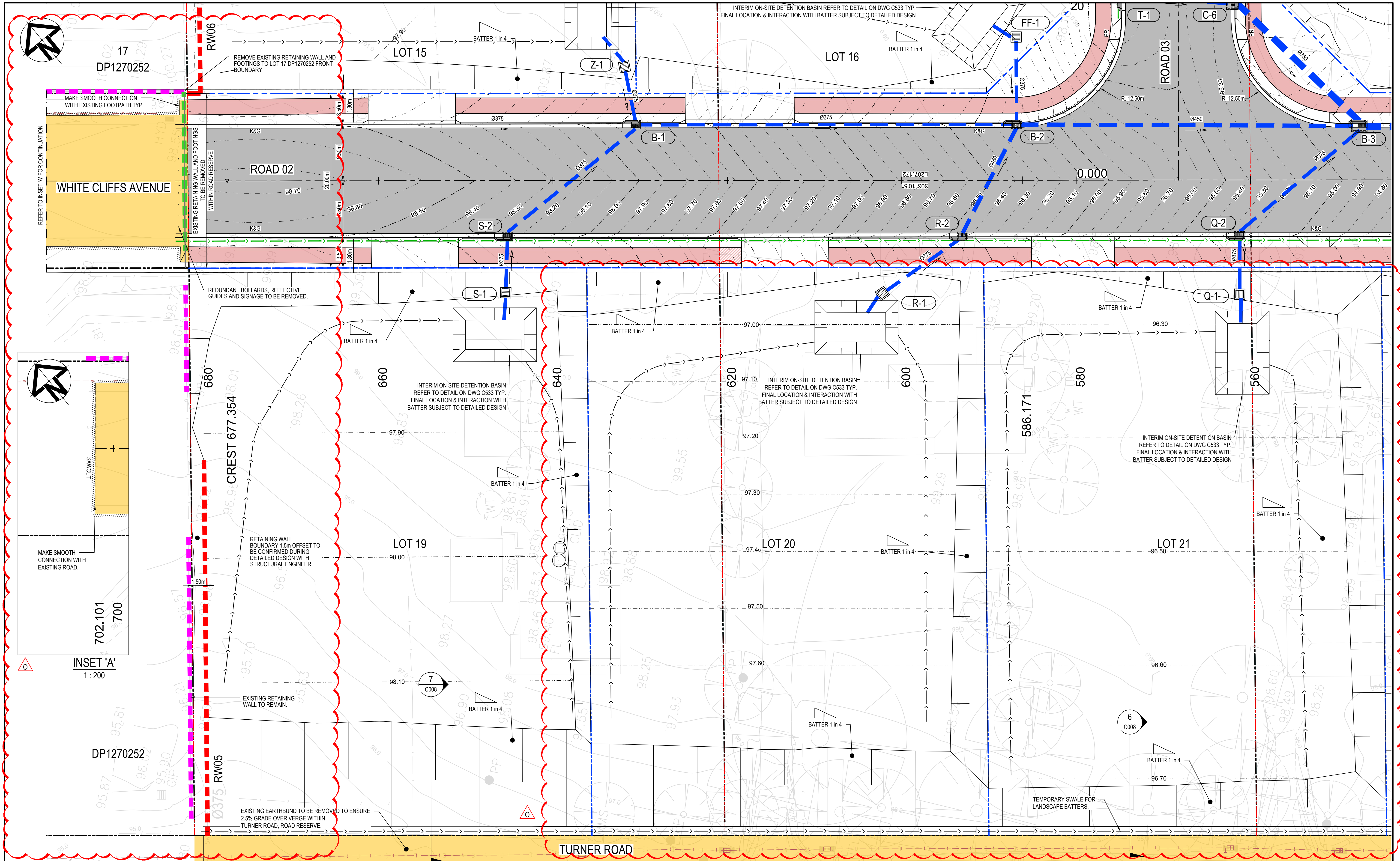
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Scales	1:200
Grid	GDA 2020
Height Datum	AHD
Drawn	JH
Designed	JH
Checked	ALa
Approved	

Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	ROADWORKS AND DRAINAGE PLAN SHEET 5

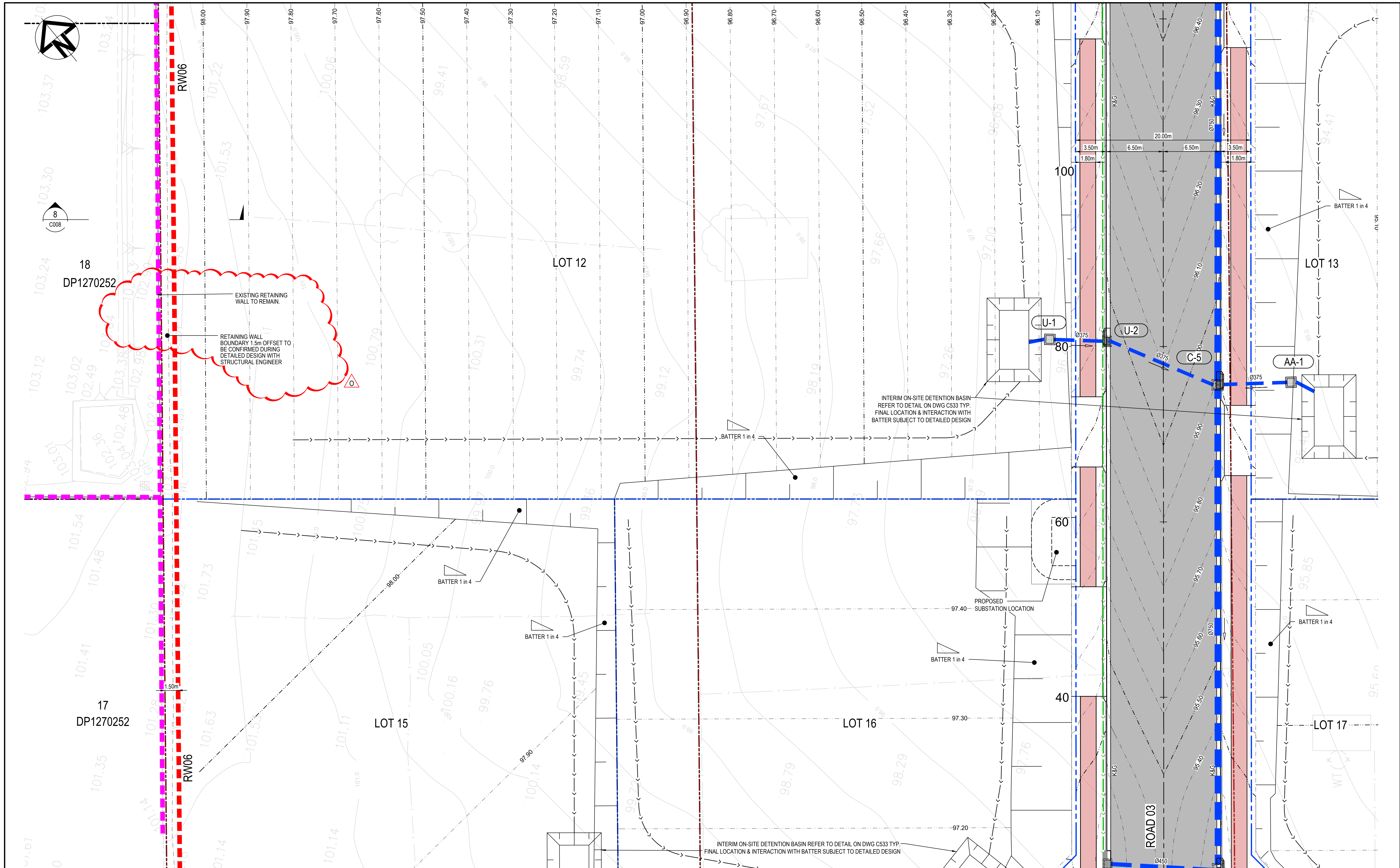
Civil Engineers and Project Managers		
<b>at&amp;l</b>		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C205	Issue 0



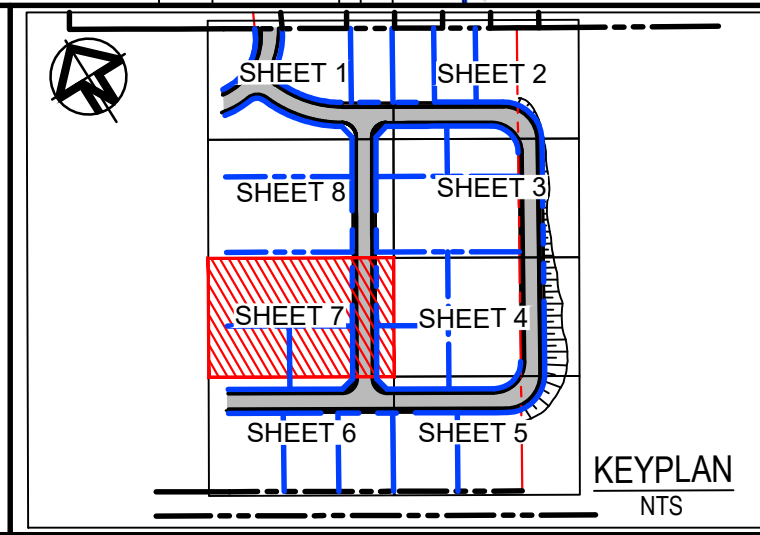
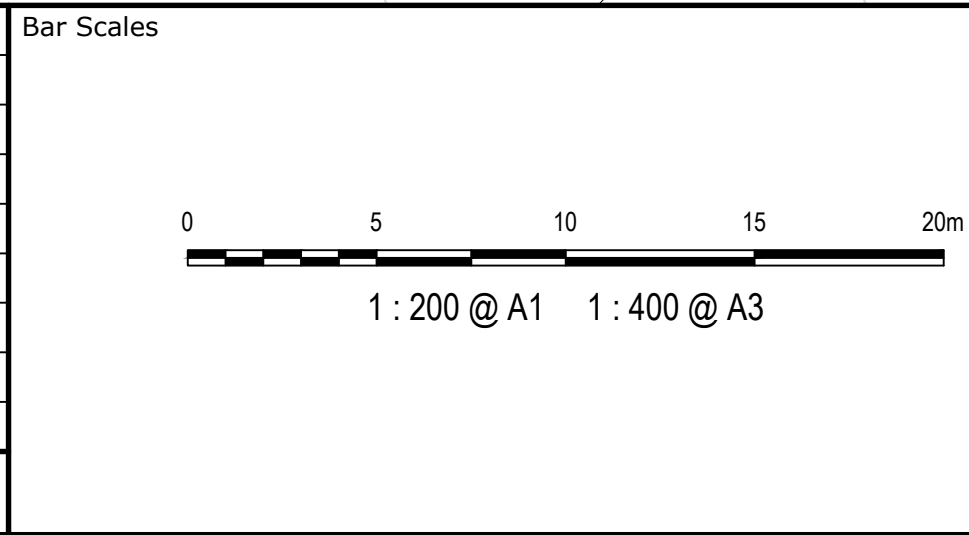


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<div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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D	ISSUED FOR DA APPROVAL	12-04-22																																	
Issue	Description	Date																																	





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M	ISSUED FOR DA	07-11-22
L	ISSUED FOR DA	23-09-22
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E	ISSUED FOR DA APPROVAL	21-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
Issue	Description	Date



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Scales	1:200	Drawn	JH
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Grid	GDA 2020	Checked	ALa
Height Datum	AHD	Approved	

Project  
**43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE**

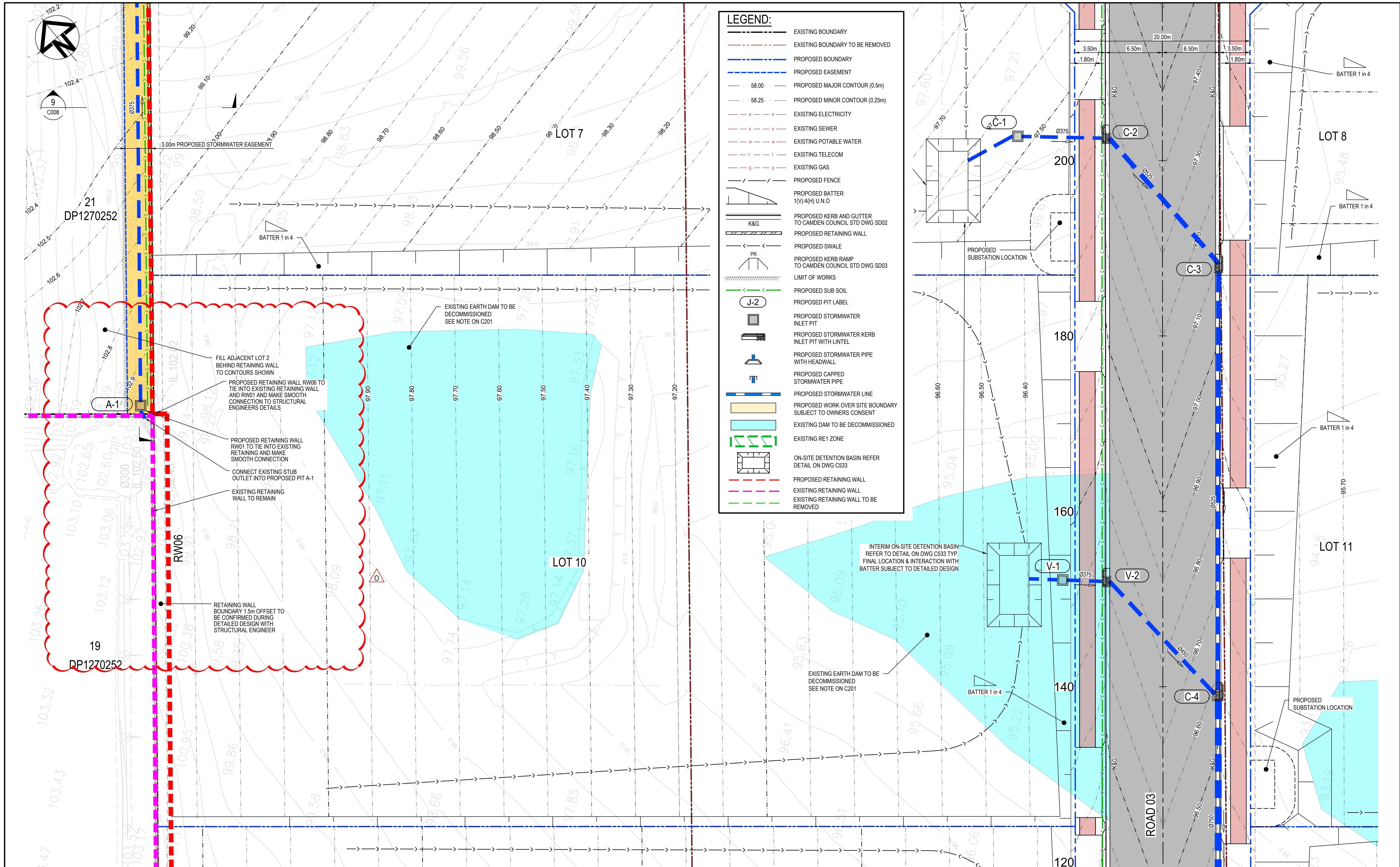
Title  
**ROADWORKS AND DRAINAGE  
PLAN  
SHEET 7**

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

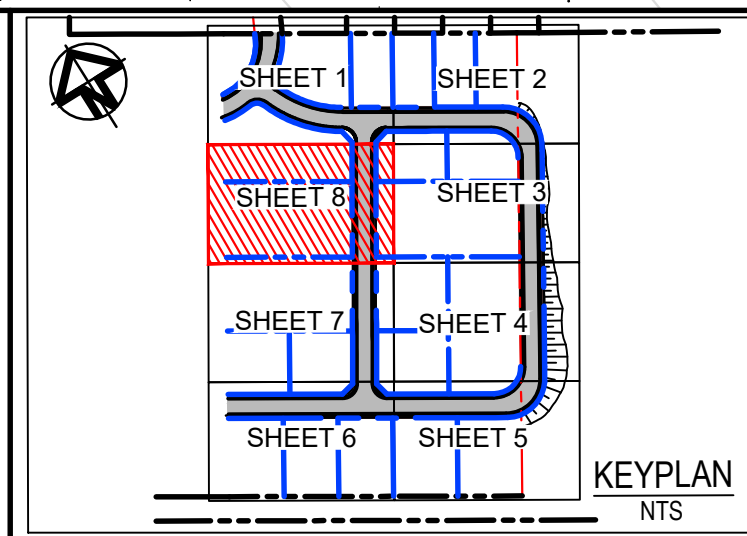
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D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
Issue	Description	Date

Bar Scales
0 5 10 15 20m
1 : 200 @ A1 1 : 400 @ A3



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Height Datum	AHD
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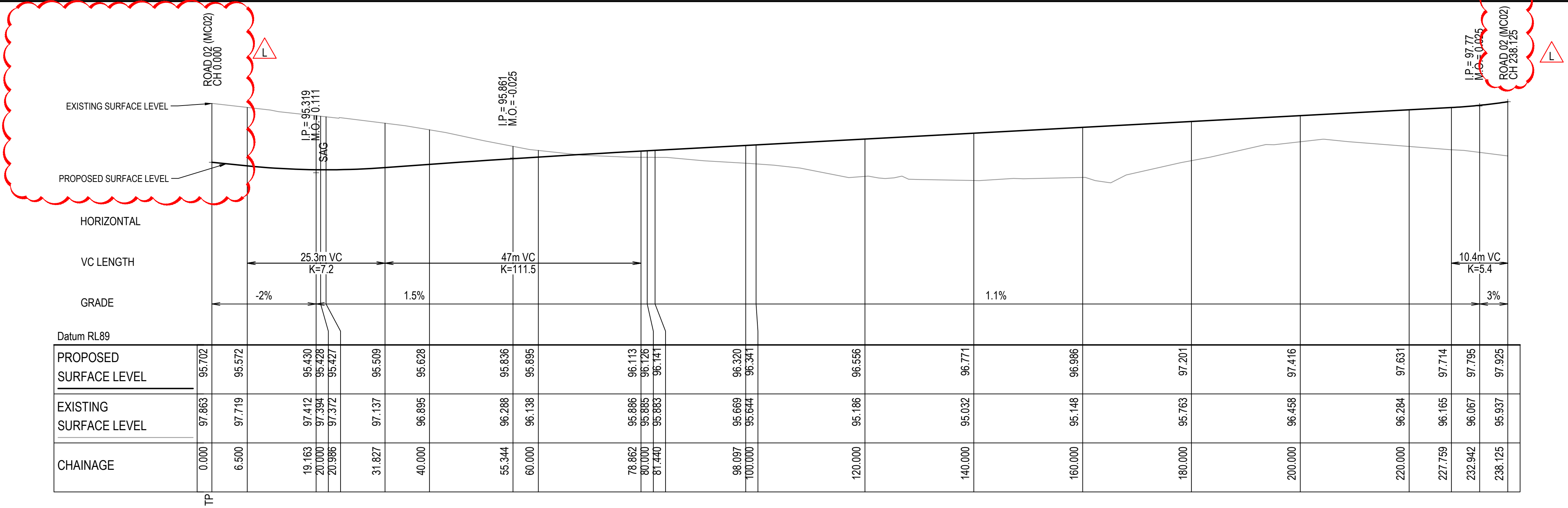
Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	ROADWORKS AND DRAINAGE PLAN SHEET 8

Civil Engineers and Project Managers		
<b>at&amp;I</b>		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C208	Issue 0



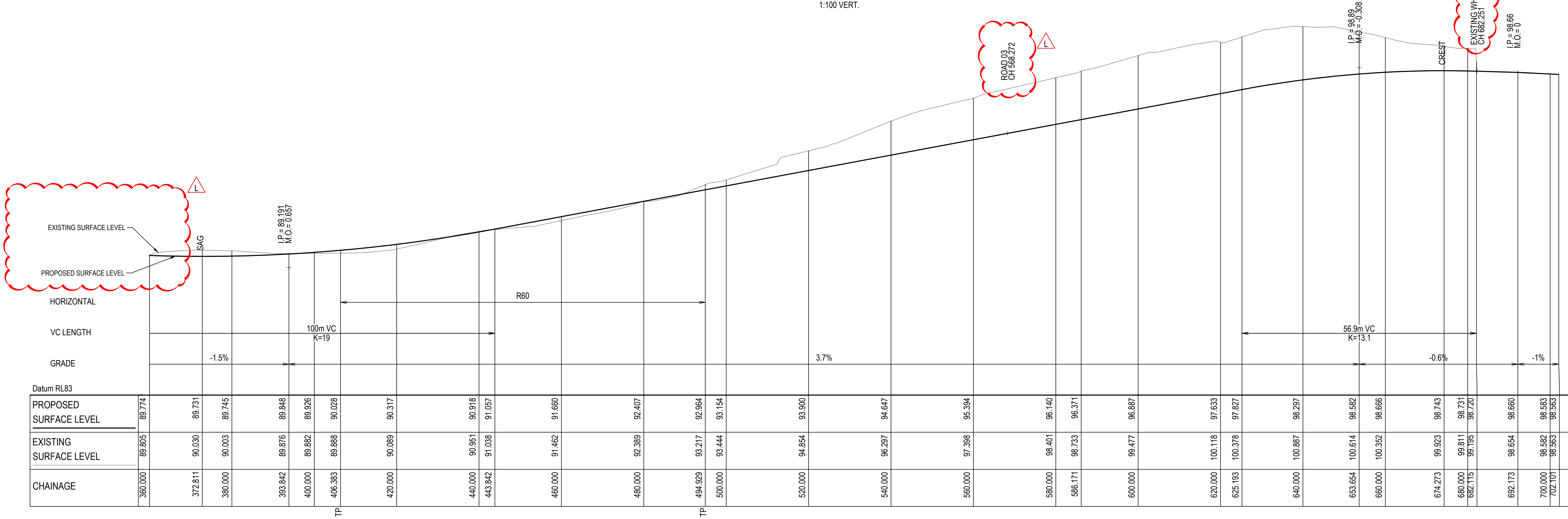






ROAD 03 LONGITUDINAL SECTION

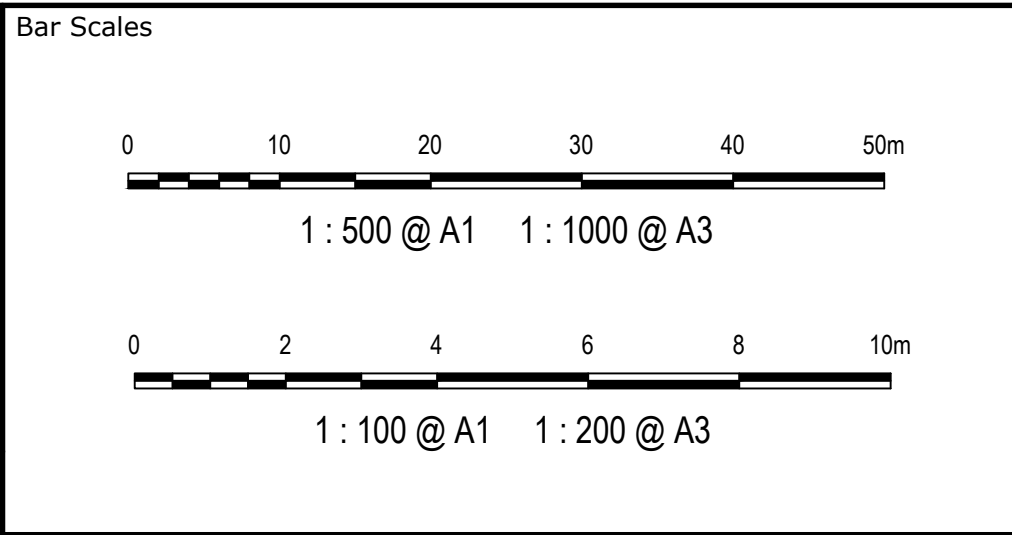
SCALE 1:500 HORI.  
1:100 VERT.



ROAD 02 (MC02) LONGITUDINAL SECTION (CONT)

SCALE 1:500 HORI.  
1:100 VERT.

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K	ISSUED FOR DA	13-01-23
J	ISSUED FOR DA	07-11-22
G	ISSUED FOR DA	30-08-22
F	ISSUED FOR DA APPROVAL	29-06-22
E	ISSUED FOR DA APPROVAL	22-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
B	ISSUED FOR APPROVAL	04-11-21
Issue	Description	Date



Client

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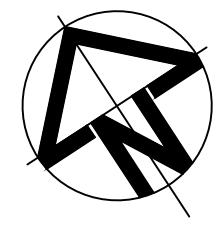
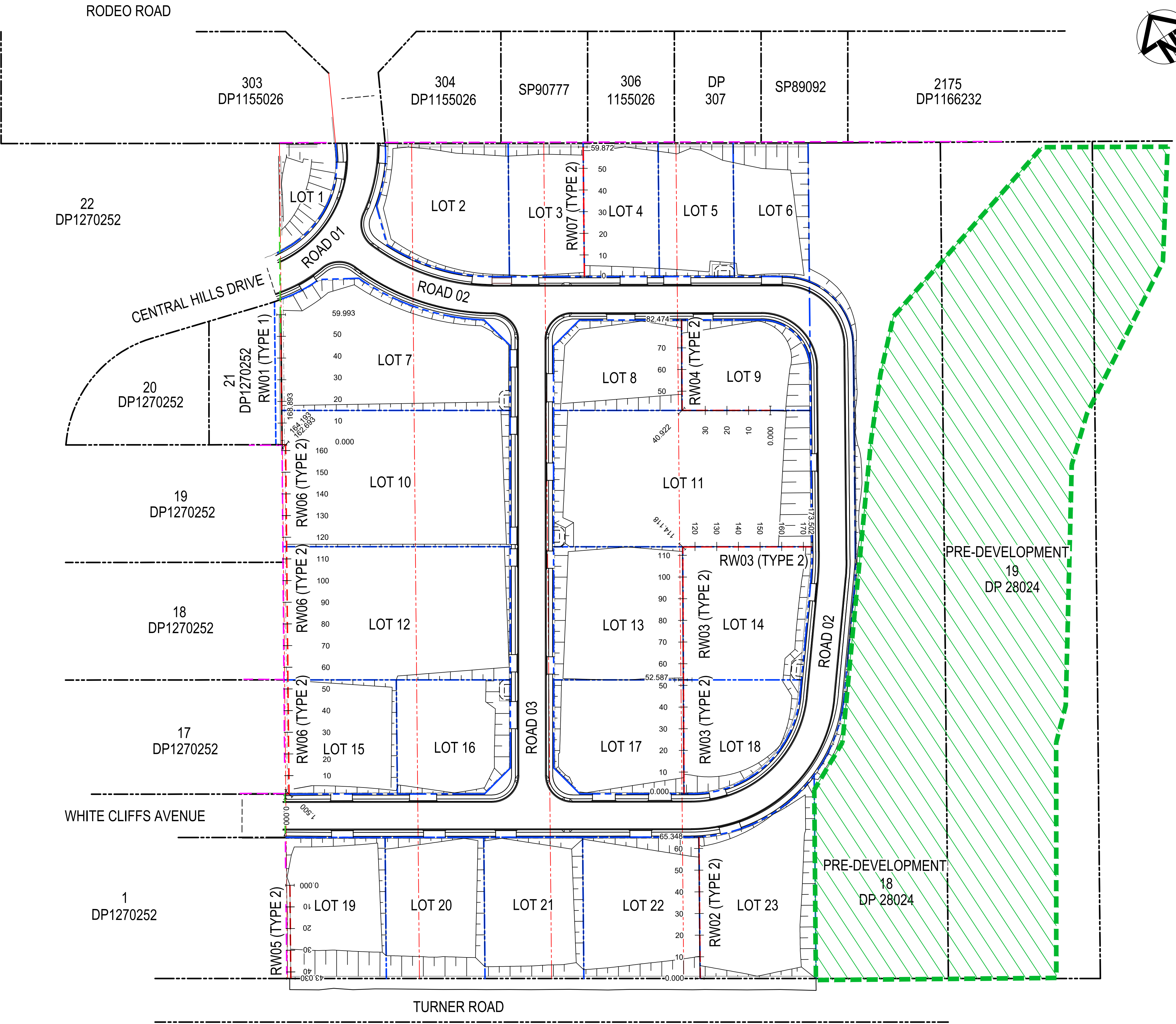
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Grid	GDA 2020
Height Datum	AHD

Drawn	JH
Designed	JH
Checked	ALa
Approved	

Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	ROAD 02 (MC02) & ROAD 03 (MC03) LONGITUDINAL SECTIONS

Civil Engineers and Project Managers	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Status	ISSUED FOR DA NOT FOR CONSTRUCTION
Project - Drawing No.	21-889-C302
Issue	L

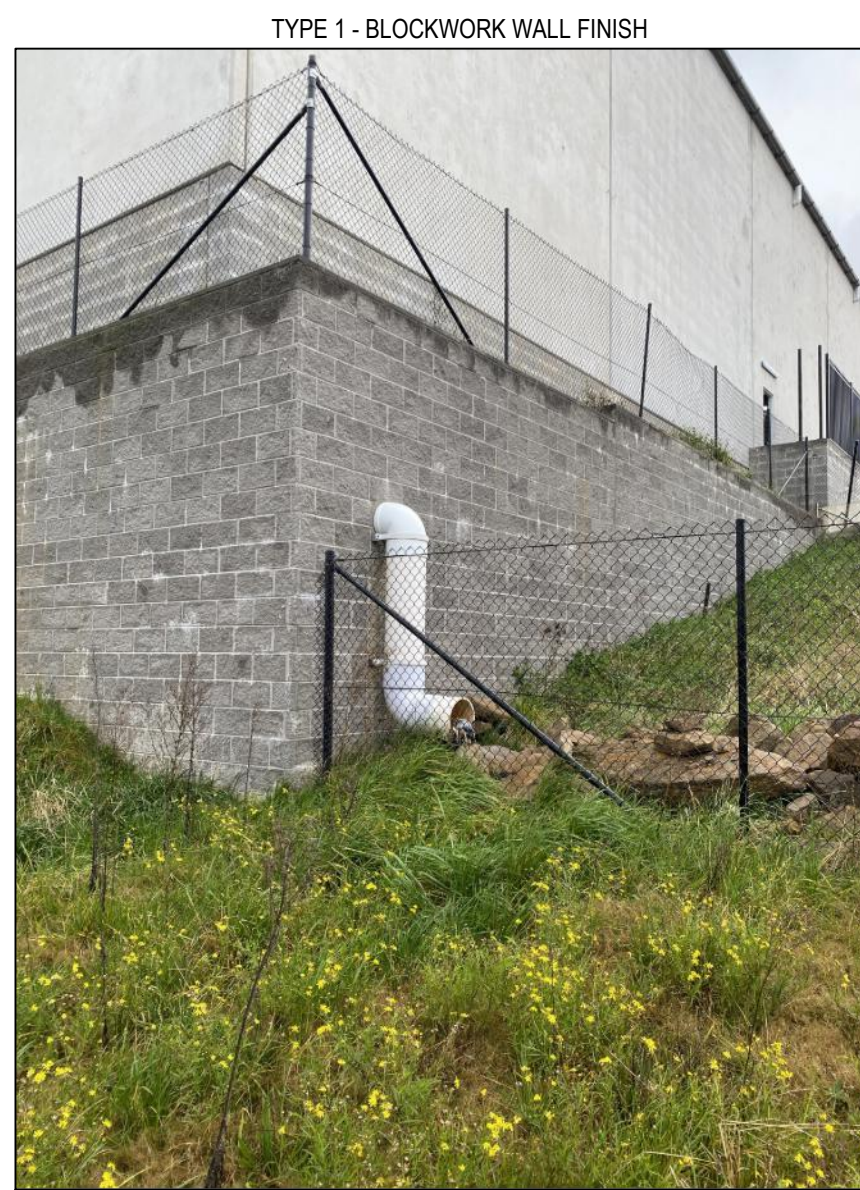




LEGEND:

	EXISTING BOUNDARY
	EXISTING BOUNDARY TO BE REMOVED
	PROPOSED BOUNDARY
	PROPOSED EASEMENT
	PROPOSED RETAINING WALL
	EXISTING RETAINING WALL
	EXISTING RETAINING WALL TO BE REMOVED
	EXISTING REI ZONE

RETAINING WALL	
TYPE	DESCRIPTION
TYPE 1	RW01
TYPE 2	RW02, RW03, RW04, RW05, RW06, RW07



Issue	Description	Date
L	ISSUED FOR DA	23-01-23
K	ISSUED FOR DA	13-01-23
J	ISSUED FOR DA	07-11-22
G	ISSUED FOR DA	30-08-22
F	ISSUED FOR DA APPROVAL	29-06-22
E	ISSUED FOR DA APPROVAL	22-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
B	ISSUED FOR APPROVAL	04-11-21

**Key Dates**

23-01-23	13-01-23	07-11-22	30-08-22	29-06-22	22-04-22	20-04-22	12-04-22	04-11-21
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0 20 40 60 80 100m

1 : 1000 @ A1    1 : 2000 @ A3

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Client  
TURNER ROAD INDUSTRIAL PTY LTD

Scales  
1:1000

Grid  
GDA 2020

Height Datum  
AHD

Project  
43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE

Title  
RETAINING WALL  
GENERAL ARRANGEMENT  
PLAN

Civil Engineers and Project Managers

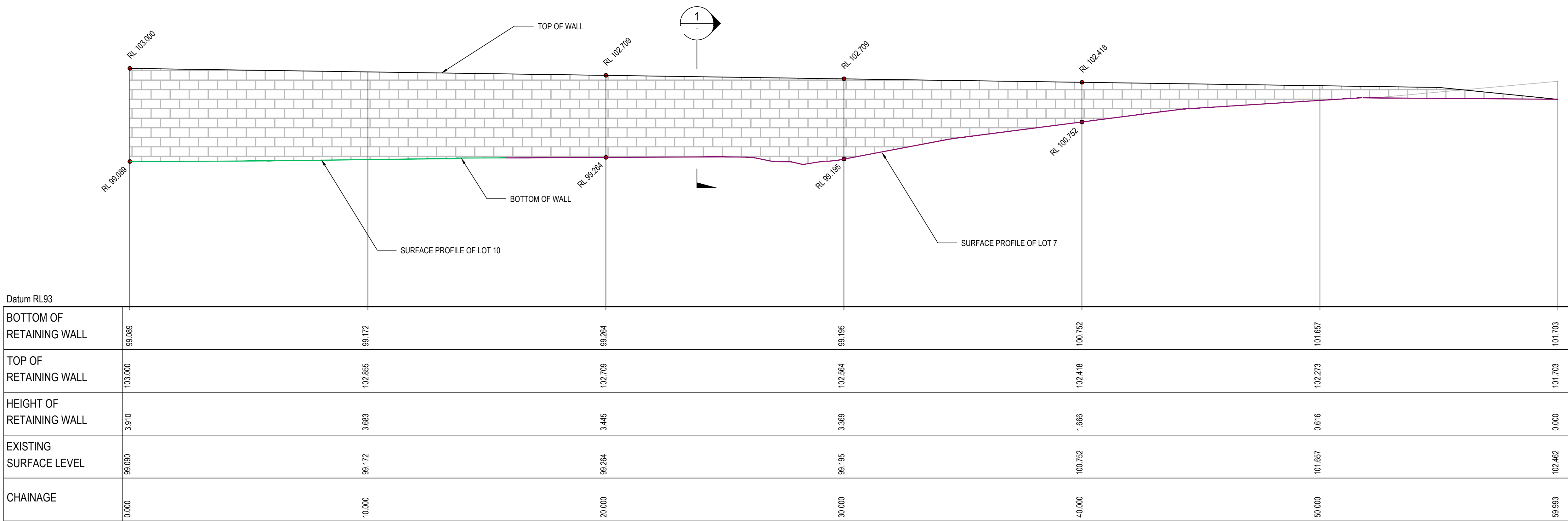
**at&l**

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Status ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No. 21-889-C401	Issue L

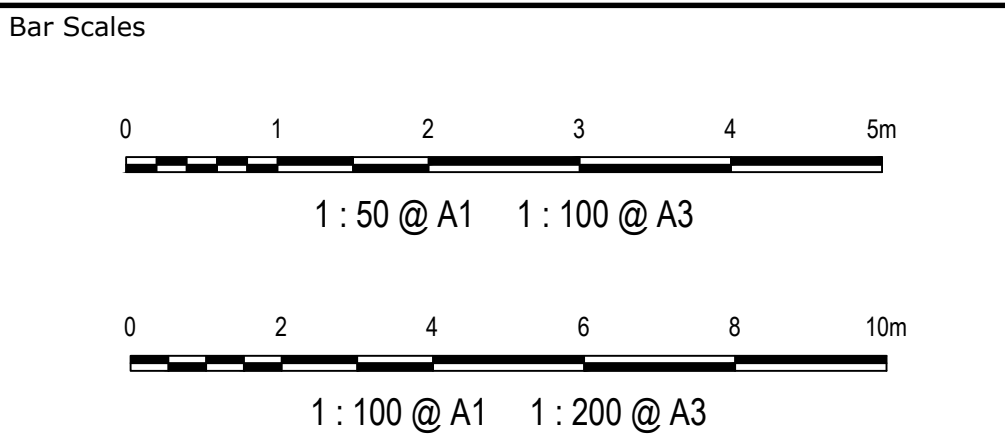


NOTE: RETAINING WALL TYPES ARE INDICATIVE ONLY  
AND SUBJECT TO DETAIL DESIGN



RETAINING WALL RW01 PROFILE - TYPE 1  
SCALE 1:100 HORI.  
1:100 VERT.

L	ISSUED FOR DA	23-01-23
K	ISSUED FOR DA	13-01-23
J	ISSUED FOR DA	07-11-22
G	ISSUED FOR DA	30-08-22
F	ISSUED FOR DA APPROVAL	29-06-22
E	ISSUED FOR DA APPROVAL	22-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
B	ISSUED FOR APPROVAL	04-11-21
Issue	Description	Date



Client	TURNER ROAD INDUSTRIAL PTY LTD
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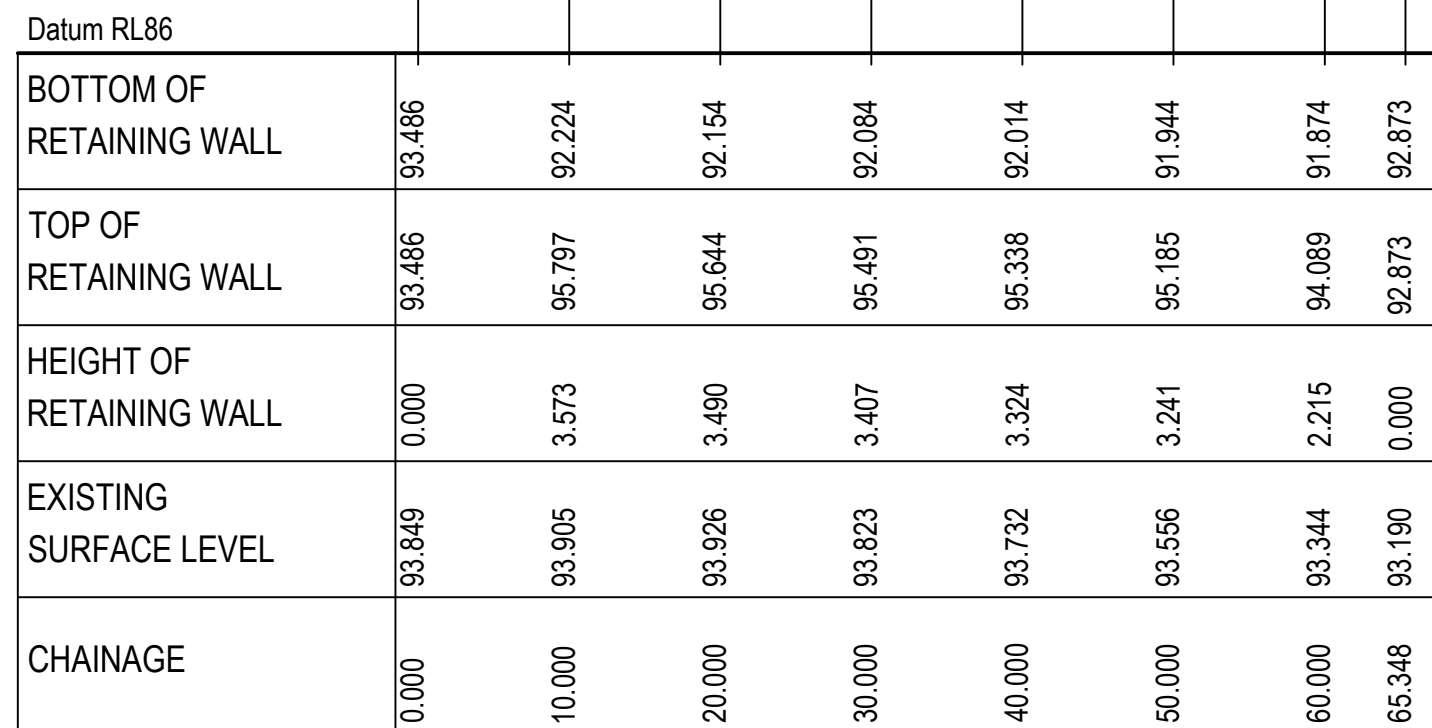
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Grid	GDA 2020
Height Datum	AHD
Drawn	JH
Designed	JH
Checked	ALa
Approved	
GDA2020	

Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	RETAINING WALL PROFILE SHEET 1

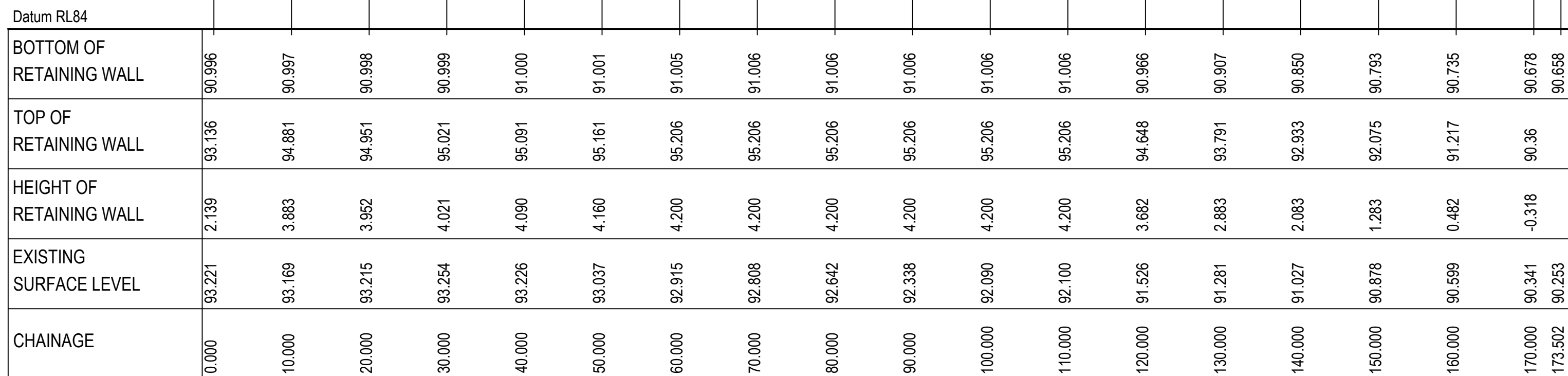
Civil Engineers and Project Managers		
at&L		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C402	Issue L



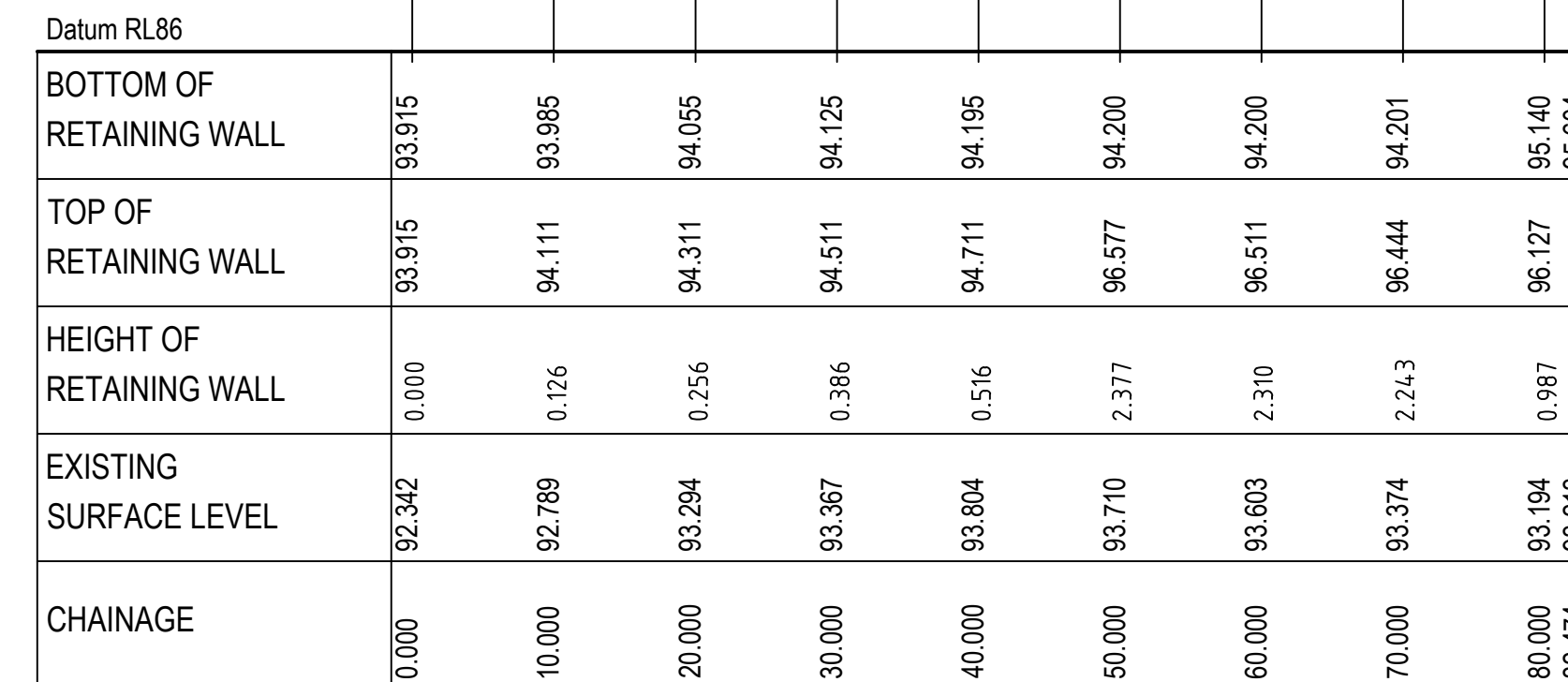
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SCALE 1:500 HORI.  
1:100 VERT.



SCALE 1:500 HORI.  
1:100 VERT.

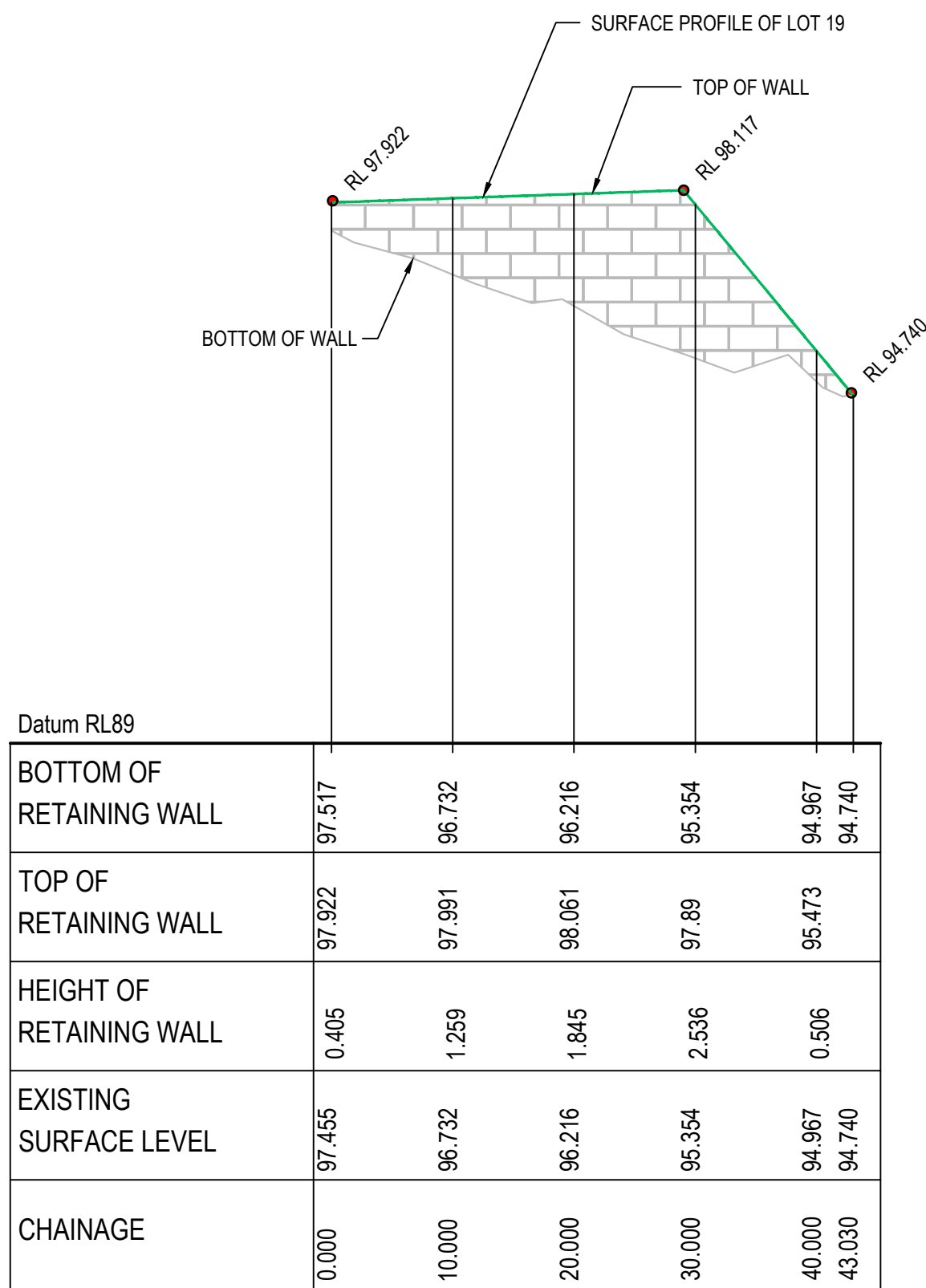


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1:100 VERT.



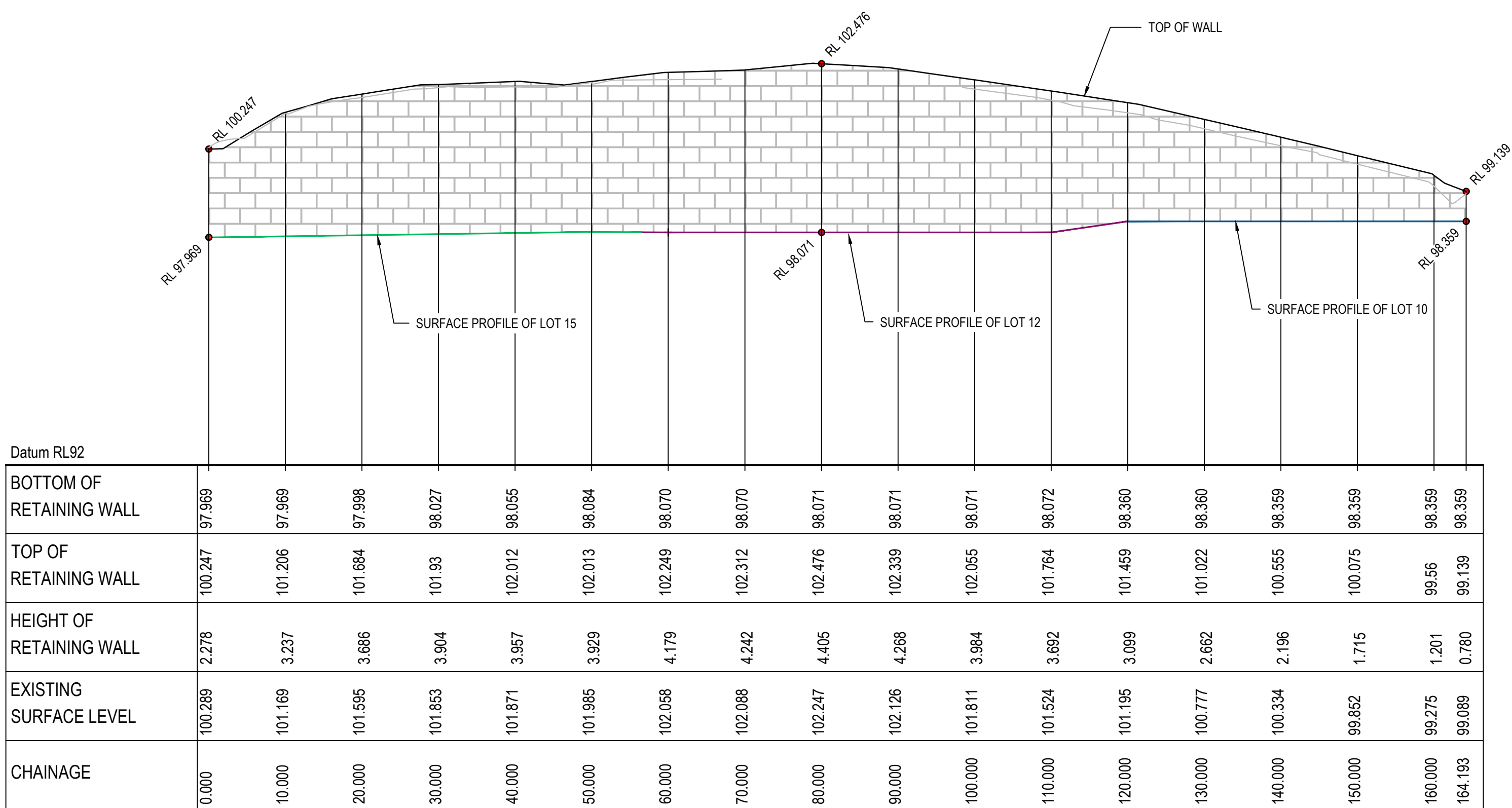


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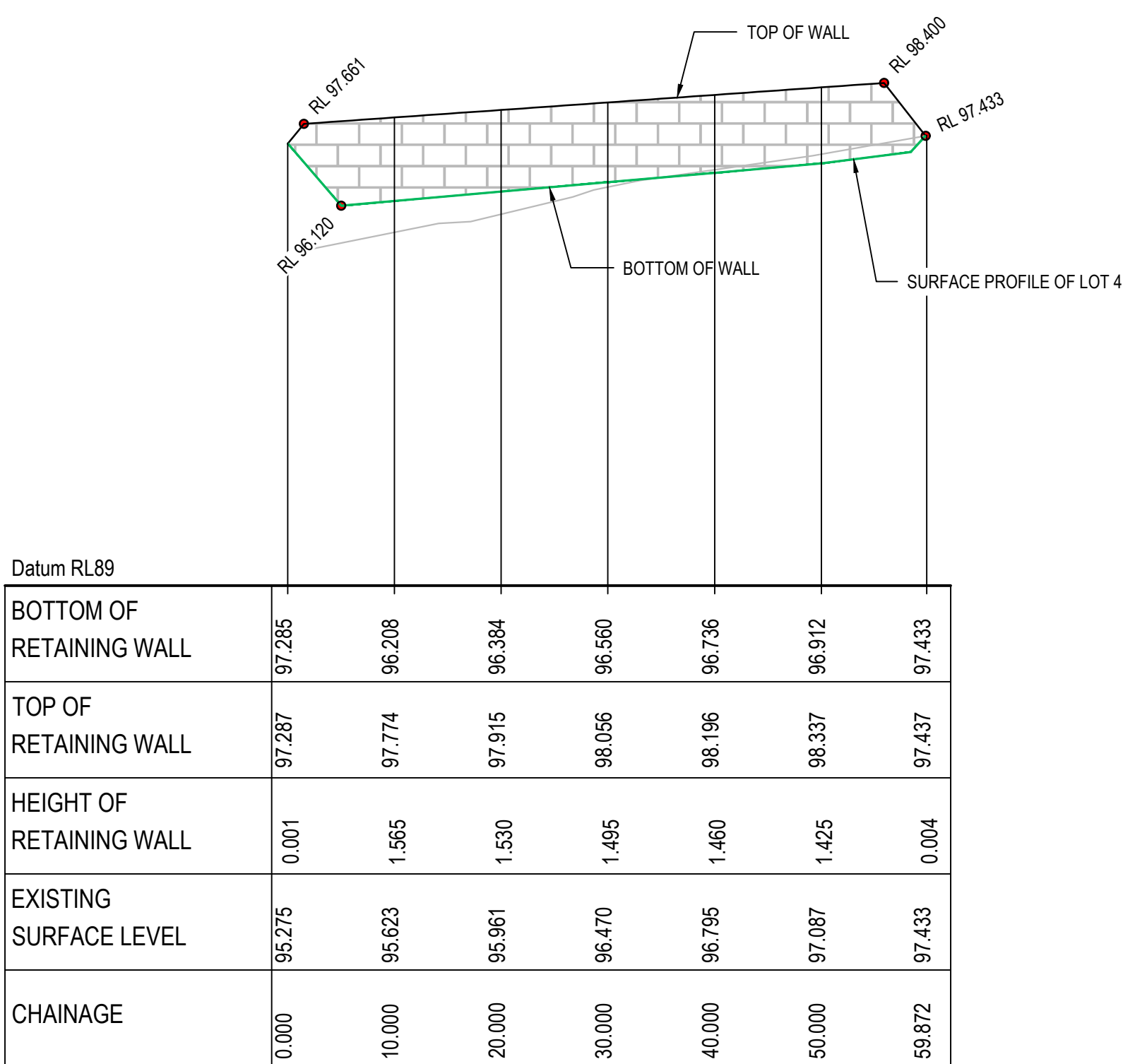
RETAINING WALL RW05 BOT PROFILE - TYPE 2

SCALE 1:500 HORI.  
1:100 VERT.



RETAINING WALL RW06 BOT PROFILE - TYPE 2

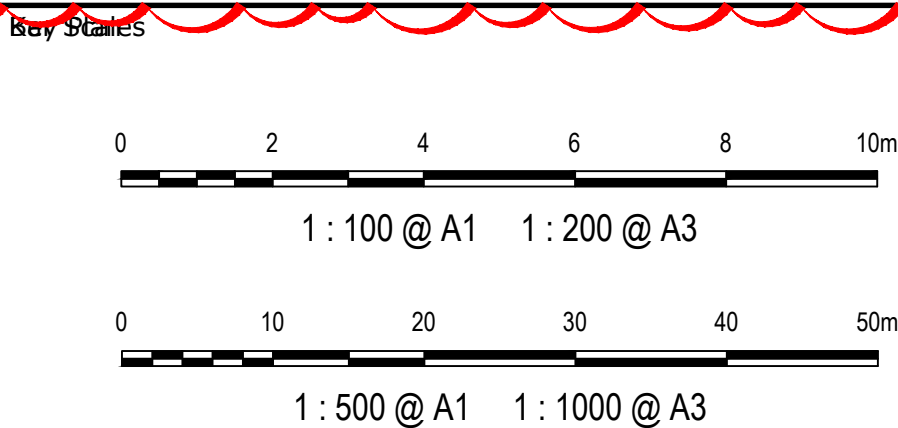
SCALE 1:500 HORI.  
1:100 VERT.



RETAINING WALL RW07 BOT PROFILE - TYPE 2

SCALE 1:500 HORI.  
1:100 VERT.

C	ISSUED FOR APPROVAL	23-01-23
B	ISSUED FOR DA	13-01-23
A	ISSUED FOR APPROVAL	07-11-23
Issue	Description	Date



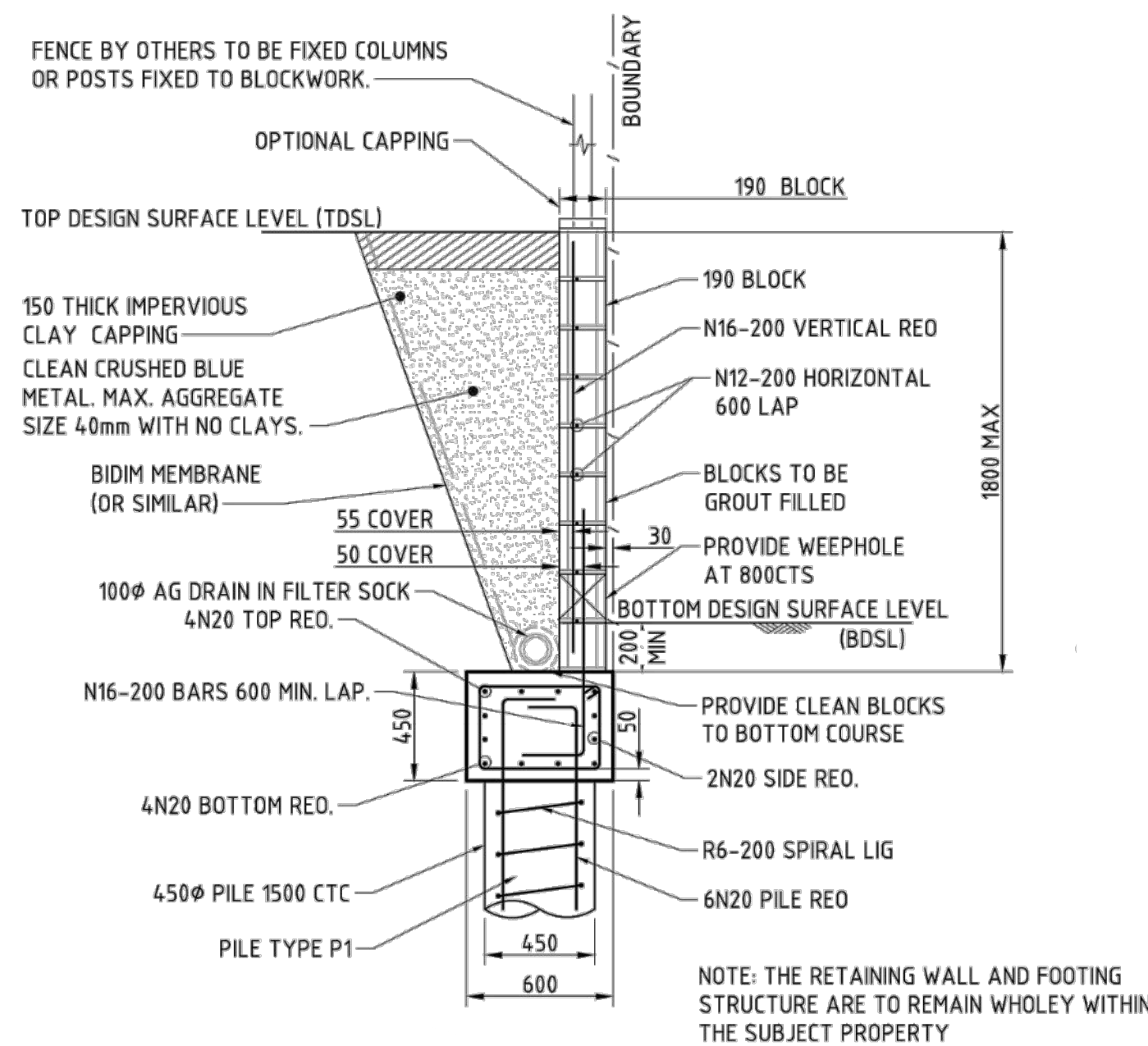
Client	TURNER ROAD INDUSTRIAL PTY LTD
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Scales	1:100 H 1:100 V
Grid	GDA 2020
Height Datum	AHD
GDA2020	

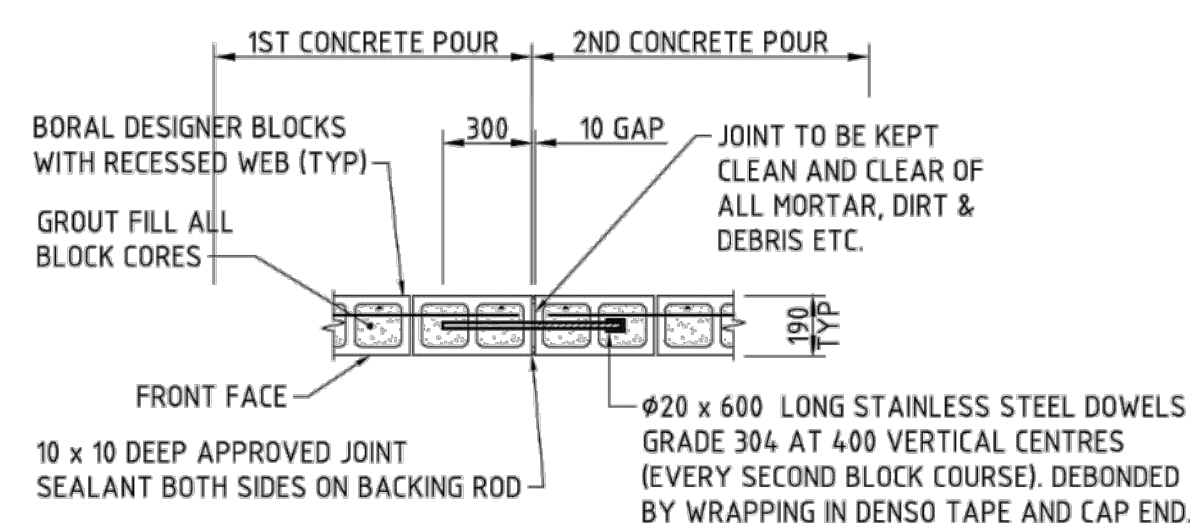
Drawn	JH
Designed	JH
Checked	ALa
Approved	
Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	RETAINING WALL PROFILE SHEET 3

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Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C404	Issue

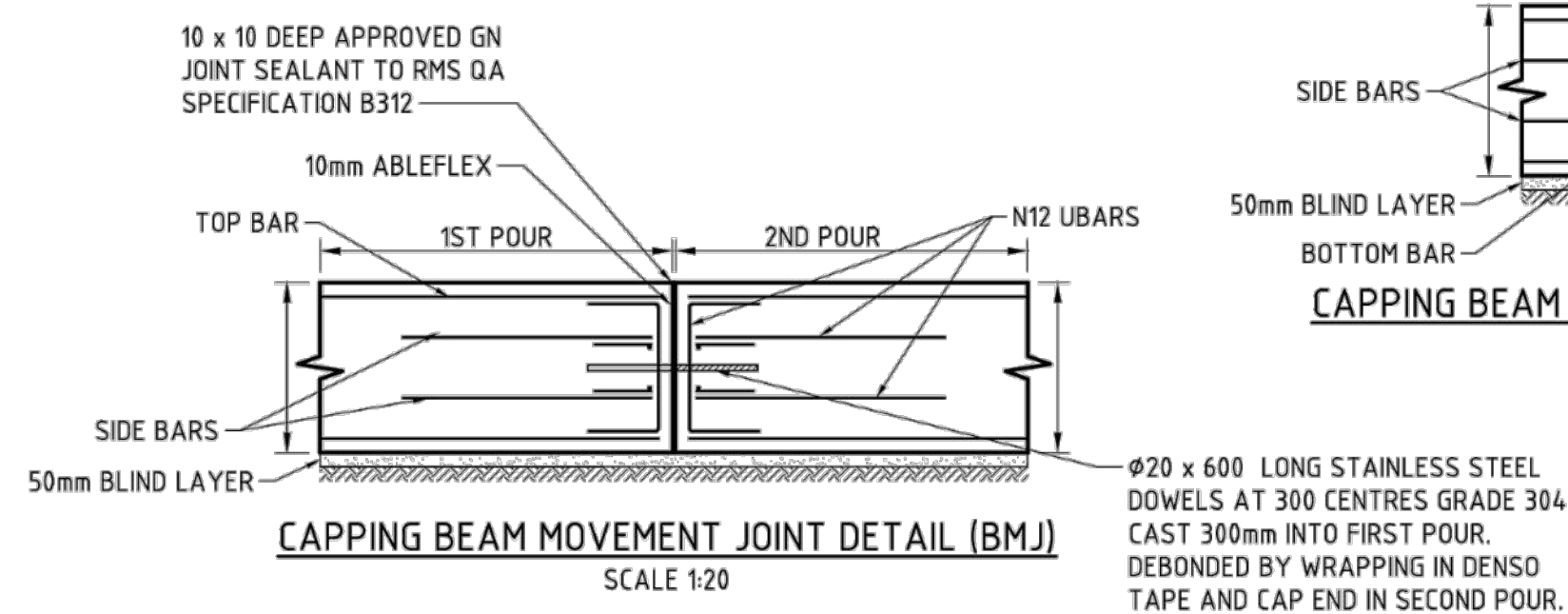




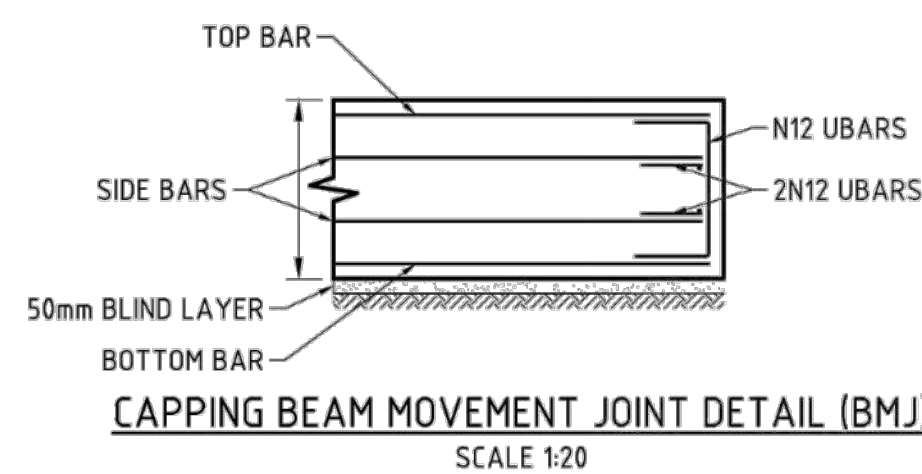
**BLOCKWORK RETAINING WALL 0.0m-1.8m TYPE 1**  
SCALE 1:20



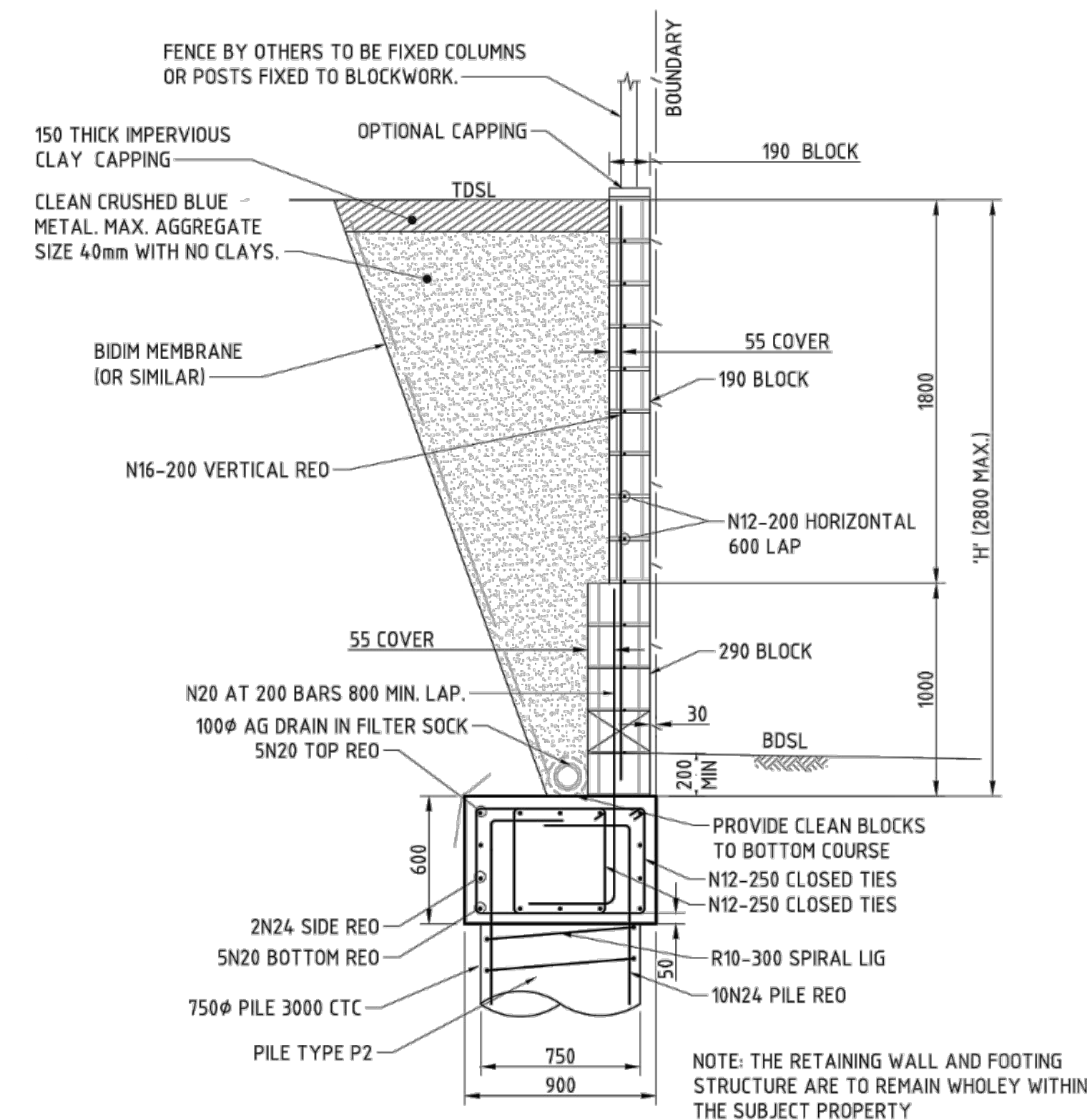
**TYPICAL BLOCKWORK MOVEMENT JOINT DETAIL 'MJ'**  
SCALE 1:20



**CAPPING BEAM MOVEMENT JOINT DETAIL (BMJ)**  
SCALE 1:20



**CAPPING BEAM MOVEMENT JOINT DETAIL (BMJ)**  
SCALE 1:20



**TYPE B**  
**BLOCKWORK RETAINING WALL 1.8m- 2.8m TYPE 1**  
SCALE 1:20

DRAFT

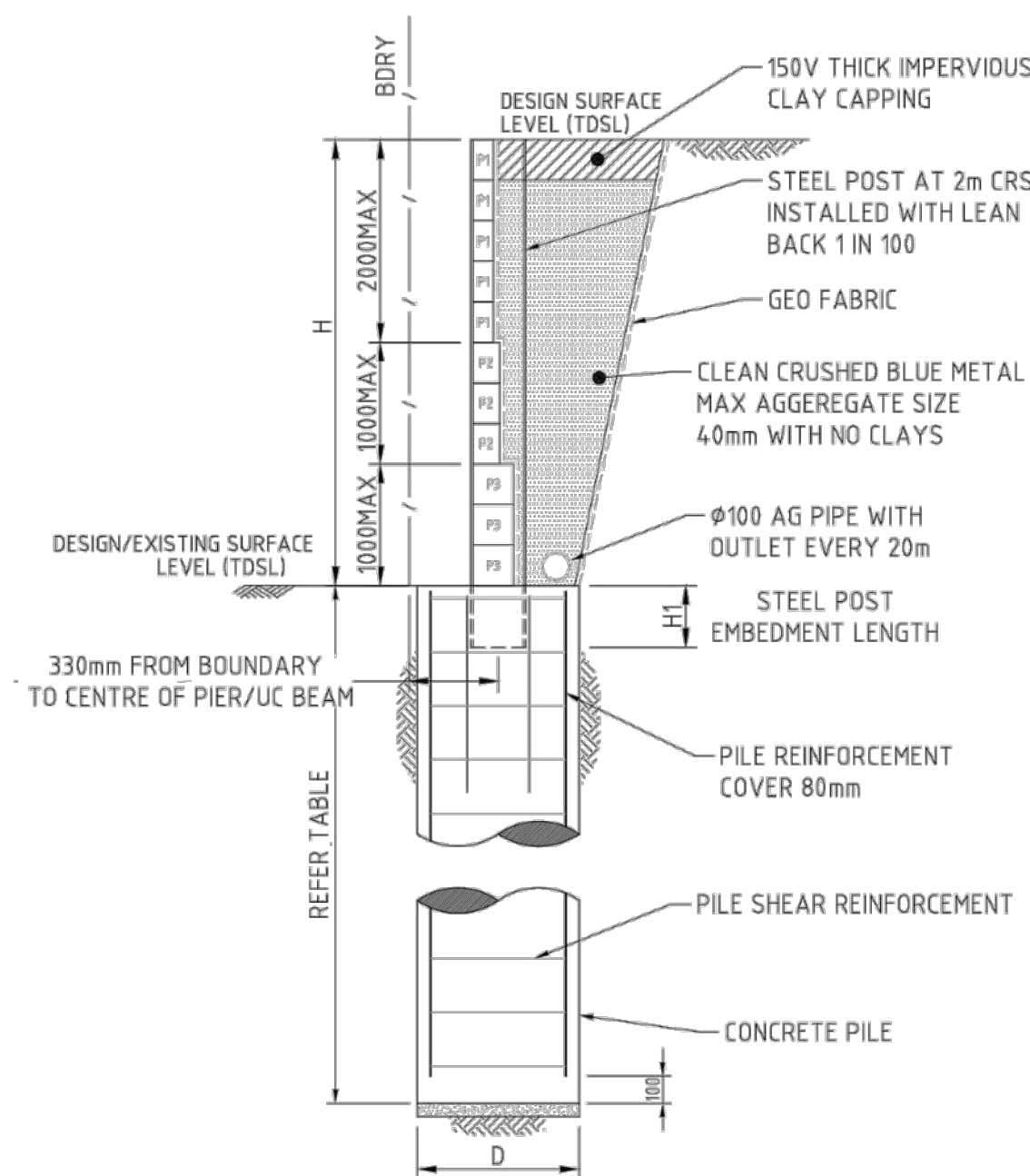
INDICATIVE ONLY.  
TO BE FINALISED DURING  
DETAILED DESIGN.

Revision			Revision		
B			A		
ISSUED FOR APPROVAL			ISSUED FOR APPROVAL		
23-01-23			17-01-23		
Description			Date		
100mm on Original					
Key Dates			Client		
			TURNER ROAD INDUSTRIAL PTY LTD		
			Scales		
			1:100 H 1:100 V		
			Grid		
			GDA 2020		
			Height Datum		
			AHD		
			Drawn		
			JH		
			Designed		
			JH		
			Checked		
			ALa		
			Approved		
			Project		
			43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE		
			Title		
			RETAINING WALL DETAILS SHEET 1		
			Civil Engineers and Project Managers		
			at&l		
			Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
			Status		
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			Project - Drawing No.		
			21-889-C405		
			Issue		
			B		



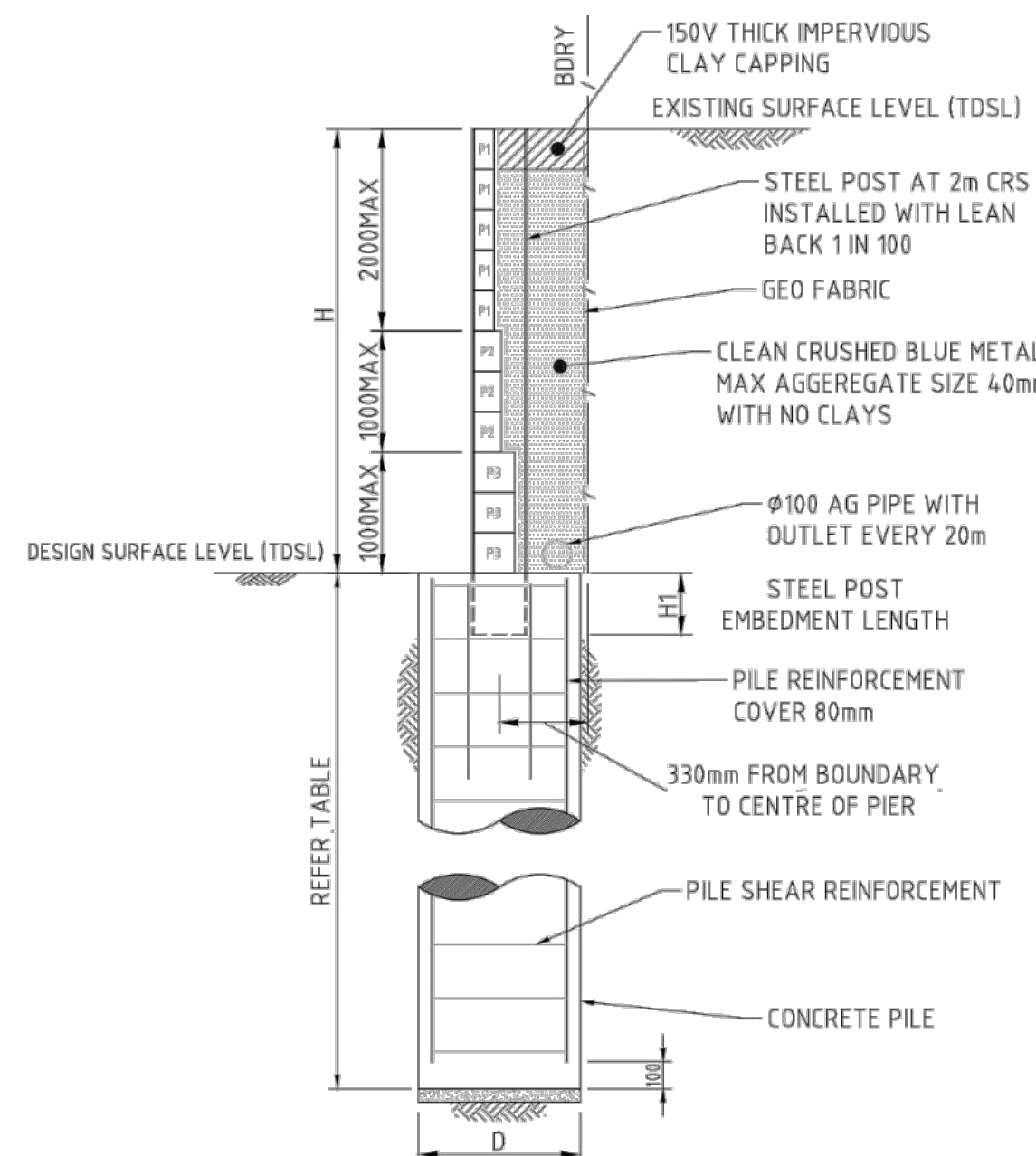
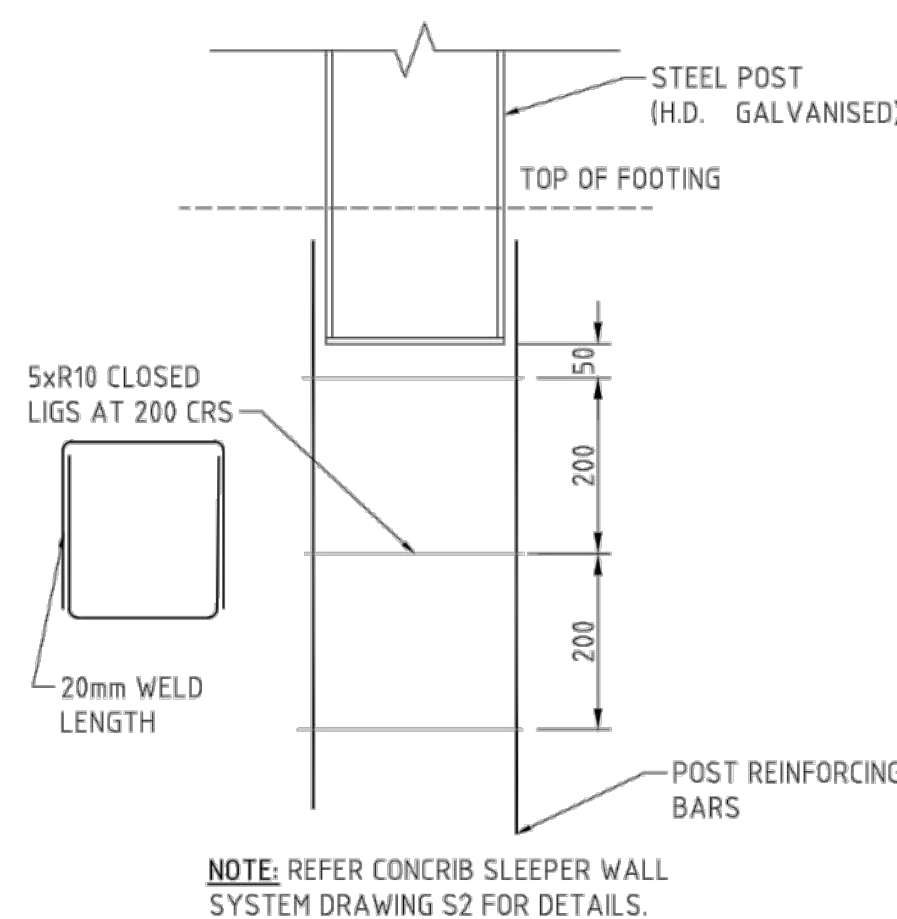






WALL DETAIL A  
POST AND PANEL RETAINING WALL  
TYPE 2  
SCALE 1:20

P1 -75 THICK PRECAST PANEL  
P2 -100 THICK PRECAST PANEL  
P3 -150 THICK PRECAST PANEL  
**NOTE:** REFER CONCRIB SLEEPER WALL SYSTEM DRAWING S2 FOR DETAILS.



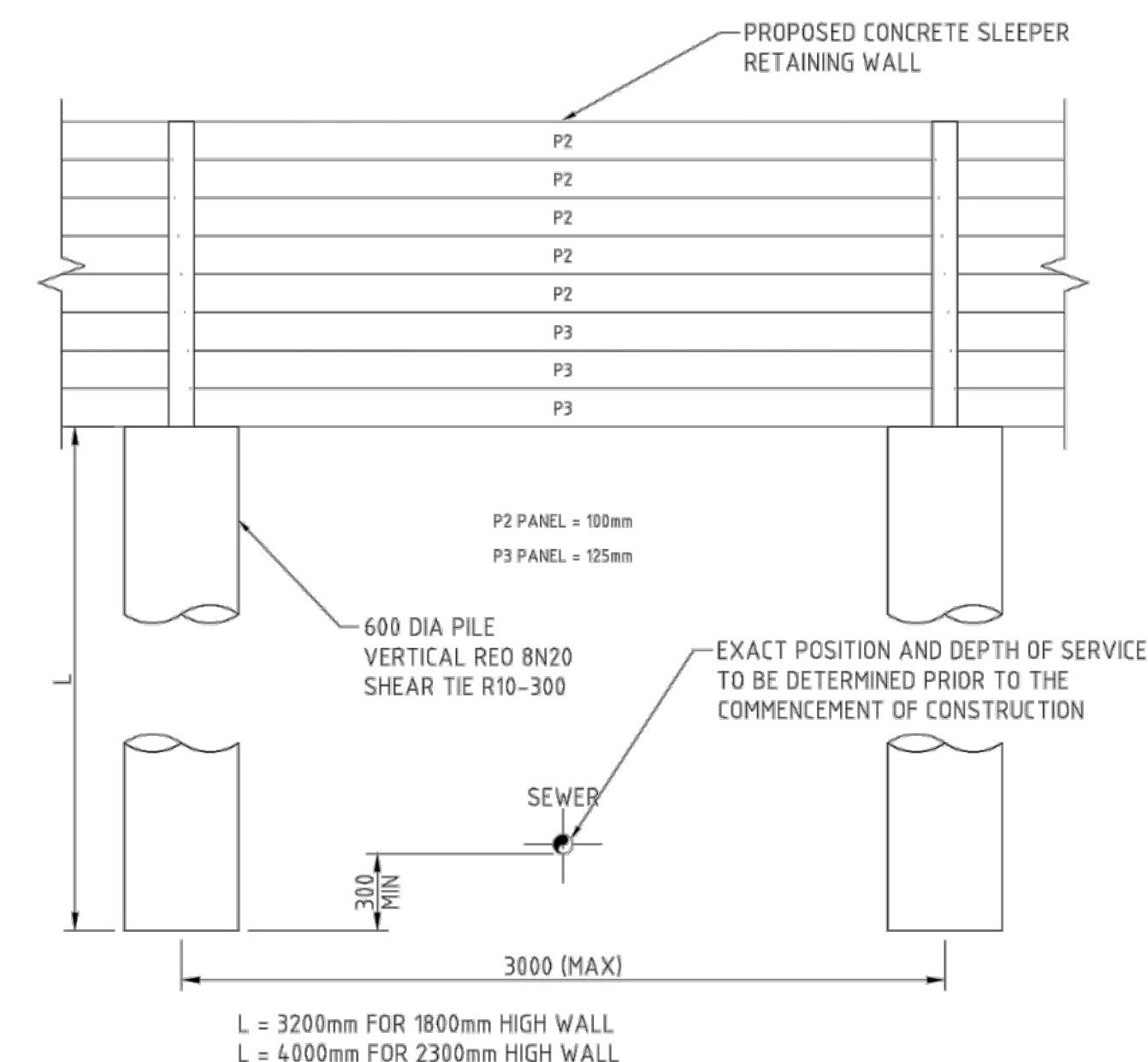
WALL DETAIL B TYPE 2  
POST AND PANEL RETAINING WALL  
SCALE 1:20

NOTE: PROVIDE GRASS LINED SWALE (SUBJECT TO SEPARATE APPROVAL) WHERE WALL ADJOINS CAMDEN VALLEY WAY. REFER SHEET CC103 FOR SWALE EXTENTS

NOTE: WALLS TO BE LOCATED WHOLLY WITHIN PROPOSED DEVELOPMENT SITE. NO WORKS OR RETAINING STRUCTURES TO BE ON ADJOINING LAND

TABLE 1						
MAXIMUM RETAINED HEIGHT (mm)	STEEL POST SIZE	MAXIMUM SPACING (mm)	PILE DIA (D) mm	MINIMUM PILE LENGTH (mm)	PILE VERTICAL REO	PILE SHEAR REO
1500	100UC15	2000	450	2500*	6N20	R6-200
1500	180UB18	2000	450	2500*	6N20	R6-200
2400	200UB22	2000	600	4500*	8N20	R10-300
2700	250UB26	2000	600	4500	8N20	R10-300
3000	310UB32	2000	600	4500	8N20	R10-300
4200 (TBC)	310UB40	2000	600	6000	8N20	R10-300

\*WHERE STORMWATER PIPE OR SEWER PIPE NEXT TO THE PILES, PILE TOE LEVEL SHOULD BE 500mm BELOW THE BOTTOM OF THE PIPE LEVEL.





L = 3200mm FOR 1800mm HIGH WALL  
L = 4000mm FOR 2300mm HIGH WALL

TYPICAL SLEEPER WALL BRIDGING DETAIL

NOTES:  
PROVIDE ADDITIONAL POSTS AND POSITION AS REQUIRED TO ACHIEVE CLEARANCES.

DRAFT

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TO BE FINALISED DURING  
DETAILED DESIGN.

			Key Dates		Client	TURNER ROAD INDUSTRIAL PTY LTD	Scales	Drawn	JH	Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE	Civil Engineers and Project Managers   <div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</div>	
								Designed	JH				
							Grid	GDA 2022	Checked				ALa
							Height Datum	AHD	Approved				
													
			THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT WRITTEN PERMISSION OF AT&I				Title		RETAINING WALL DETAILS SHEET 3		Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
B	ISSUED FOR APPROVAL	23-01-23											
A	ISSUED FOR APPROVAL	17-01-23											
Issue	Description	Date											



GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS, BUILDING CODE OF AUSTRALIA AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES.
- FINAL LEVEL SURVEYING, SETOUT ARRANGEMENTS, DIMENSIONAL CHECKING AND FABRICATION OF ANY STEELWORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE WORK COMMENCES. DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- BEFORE UNDERTAKING ANY WORK, ESTABLISH THE LOCATIONS OF ALL EXISTING SERVICES AFFECTED BY THE WORKS, IF NECESSARY CARRY OUT DIAL-BEFORE-YOU-DIG. ADVISE THE SUPERINTENDENT IF THERE ARE ANY UNKNOWN SERVICES WHICH CAN POTENTIALLY BE AFFECTED BY THE WORKS.
- IT IS THE CONTRACTORS RESPONSIBILITY TO BUILD THE STRUCTURE IN ACCORDANCE WITH THE STRUCTURAL DOCUMENTATION. ANY MODIFICATIONS OR ADDITIONS SHOULD BE SUBMITTED TO THE SUPERINTENDENT FOR REVIEW AND APPROVAL PRIOR TO COMMENCING THE WORKS.
- ANY CONFLICTS IN THE DOCUMENTATION SHOULD BE REFERRED TO THE SUPERINTENDENT FOR RESOLUTION PRIOR TO CONSTRUCTION.
- STRUCTURAL ELEMENTS SHALL BE CONSTRUCTED WITHIN DIMENSIONAL TOLERANCES SET OUT IN THE RELEVANT AUSTRALIAN STANDARDS.
- DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING AND BATTERS SHALL BE PROVIDED BY THE CONTRACTOR TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES. DESIGN CERTIFICATION TO BE PROVIDED BY A SUITABLY QUALIFIED ENGINEER FOR ADEQUACY OF STRUCTURE AND TEMPORARY WORKS FOR PROPOSED CONSTRUCTION METHODS AND LOADS INCLUDING DROPPING, CRANE LIFTS ETC. TEMPORARY MEMBERS TO BE SHOWN ON SHOP DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE TEST CERTIFICATES FROM A NATA APPROVED TESTING LABORATORY CERTIFYING THAT THE MATERIALS USED COMPLY WITH THE RELEVANT SPECIFICATIONS.
- ALL LEVELS ARE IN METRES RELATIVE TO AUSTRALIAN HEIGHT DATUM AHD UNO.
- ALL DIMENSIONS ARE IN MILLIMETRES UNO.

CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- CONCRETE USED IN THE WORKS SHALL BE EITHER REINFORCED CONCRETE OR MASS CONCRETE (MC) AS NOTED ON THE DRAWINGS AND SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

COMPONENT	RETAINING WALL FOOTINGS	MASS CONCRETE	PRECAS CONCRETE
EXPOSURE CLASSIFICATION	B2	B2	B2
f'c AT 28 DAYS (Mpa)	40	20	50
SLUMP (mm)	80	80	80
MAX SIZE AGG (mm)	20	20	20
CEMENT TYPE	GP	GP	GP
CEMENT CONTENT	400 kg/m³	280 kg/m³	400 kg/m³
WATER / BINDER RATIO	0.45	0.50	0.40

- FLYASH TO 80 kg/m³ MAY BE SUBSTITUTED FOR GP CEMENT.
- THE AREA ON WHICH FOOTINGS ARE TO BE SITUATED SHALL BE STRIPPED OF ALL ORGANIC MATTER WHICH SHALL BE REMOVED FROM THE SITE. THIS INCLUDES TREE STUMPS AND LARGE ROOTS.
- TESTING AND ASSESSMENT FOR COMPLIANCE OF CONCRETE SHALL BE CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH AS 3600.
- MAINTAIN COVER TO REINFORCEMENT AT CHAMFERS, DRIP GROOVES, REGLETS, ETC.
- CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN ON THE DRAWINGS OR WHERE SPECIFICALLY APPROVED BY SUPERINTENDENT. THEY SHALL BE VERTICAL IN FOOTINGS AND BE SCABBLED AND CLEANED AND SHALL HAVE A NEAT CEMENT-WATER SLURRY BRUSHED ON BEFORE POUR CONTINUES.
- ALL EXPOSED CONCRETE ARISES SHALL HAVE A 25 mm x 25 mm CHAMFER UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL SUFFICIENCY OF ALL FORMWORK. FORMWORK SHALL COMPLY WITH AS3610.
- FREE DROPPING OF CONCRETE FROM A HEIGHT GREATER THAN 1200mm SHALL NOT BE PERMITTED.
- CONCRETE SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- THE FINISHED CONCRETE SHALL BE DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS AND CRACKS HAVING A CRACK WIDTH EQUAL TO OR GREATER THAN 0.2 mm AT THE END OF THE DEFECTS LIABILITY PERIOD. IF CRACKING EXCEEDS THIS LIMIT, THE CONTRACTOR SHALL MAKE GOOD AT HIS EXPENSE, THE CRACKS TO THE SATISFACTION OF THE SUPERINTENDING WHICH MIGHT COMPRISE REPLACEMENT OF CONCRETE ELEMENT OR SEALING THE CRACKS OR OTHER WORKS.
- DURING AND IMMEDIATELY FOLLOWING POURING, THE CONCRETE SHALL BE PROTECTED FROM WIND AND SUN TO PREVENT PLASTIC SHRINKAGE CRACKING. AWNINGS AND WIND BREAKS ARE TO BE UTILISED FOR THIS PURPOSE.
- CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 14 DAYS FOLLOWED BY A GRADUAL DRYING OUT. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC. DO NOT USE APPLIED CURING AGENTS.

REINFORCEMENT NOTES

- REINFORCEMENT IS TO BE MANUFACTURED IN ACCORDANCE WITH AS4671 AND SHALL BE FIXED AS SHOWN ON DRAWINGS.
- PROVIDE ACRS (AUSTRALIAN CERTIFICATION AUTHORITY FOR REINFORCING STEEL LTD) CERTIFICATION OF COMPLIANCE WITH AS/NZS4671 FOR ALL REINFORCEMENT. PROVIDE CERTIFICATION OF COMPLIANCE WITH AS1311 FOR ALL PRESTRESSING TENDONS.
- PROVIDE DOCUMENTATION TO SHOW THAT REINFORCEMENT SUPPLIER AND MILL COMPLIES WITH AS/NZS4671.
- REINFORCEMENT IS DEFINED IN THE FOLLOWING FORMAT:  
17N20-300  
17 - THE NUMBER OF BARS  
20 - THE NOMINAL BAR SIZE IN mm  
N - THE BAR MATERIAL  
300 - THE MAXIMUM BAR SPACING IN mm
- MATERIAL IS INDICATED BY THE FOLLOWING SYMBOLS:  
SL - SQUARE FABRIC GRADE 500  
N - DEFORMED BAR GRADE 500 (NORMAL DUCTILITY)  
R - PLAIN ROUND BAR GRADE 250  
W - PLAIN WIRE GRADE 450  
RL - RECTANGULAR FABRIC GRADE 500  
L - DEFORMED BAR GRADE 500 (LOW DUCTILITY)  
TM - TRENCH MESH
- THE FOLLOWING NOTATIONS MAY HAVE BEEN USED ON THE DRAWINGS:  
LV - LENGTH VARIES  
CV - COG VARIES  
EW - EACH WAY  
EF - EACH FACE  
SV - SHAPE VARIES  
B1 - BOTTOM REINFORCEMENT - LAID FIRST  
B2 - BOTTOM REINFORCEMENT - LAID SECOND  
T1 - TOP REINFORCEMENT - LAID FIRST  
T2 - TOP REINFORCEMENT - LAID SECOND  
T&B - TOP AND BOTTOM
- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- CONCRETE COVERS NOTED ARE MEASURED FROM THE FORMWORK OR GROUND FACE TO THE OUTERMOST REINFORCEMENT COMPONENT. i.e. IN COLUMNS AND BEAMS TO THE OUTSIDE OF TIES OR LIGATURES.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON CONCRETE BLOCKS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. CONCRETE BLOCKS SHALL BE MADE FROM CONCRETE OF THE SAME PROPERTIES TO BE POURED AROUND THE BLOCK. PLASTIC CHAIRS AND PLASTIC TIPPED MILD STEEL CHAIRS SHALL NOT BE USED. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE SUPERINTENDENT. LAPS SHALL BE IN ACCORDANCE WITH AS 3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.
- LAPPED SPLICE LENGTHS FOR HORIZONTAL BARS WITH MORE THAN 300 mm CONCRETE CAST BELOW THE BAR TO COMPLY WITH THE FOLLOWING UNO:

COVER	f'c	N12	N16	N20	N24	N28	N32
≥ 25	≥ 20	770	1150	-	-	-	-
≥ 30	≥ 25	630	980	1350	1740	-	-
≥ 40	≥ 32	470	770	1100	1440	1810	2220
≥ 50	≥ 40	460	610	890	1200	1530	1890

- DO NOT INTERPOLATE VALUES OF SPLICE LENGTHS. EPOXY COATED BARS, BARS IN LIGHTWEIGHT CONCRETE AND SLIP FORMED CONCRETE WILL REQUIRE LONGER SPLICE LENGTHS. REFER TO AS3600.
- LAPPED SPLICE LENGTHS FOR VERTICAL BARS (AND HORIZONTAL BARS WITH LESS THAN 300mm CONCRETE CAST BELOW THE BAR) TO COMPLY WITH THE FOLLOWING UNO:
- | COVER | f'c  | N12 | N16 | N20  | N24  | N28  | N32  |
|-------|------|-----|-----|------|------|------|------|
| ≥ 25  | ≥ 20 | 590 | 890 | -    | -    | -    | -    |
| ≥ 30  | ≥ 25 | 490 | 750 | 1040 | 1340 | -    | -    |
| ≥ 40  | ≥ 32 | 360 | 600 | 840  | 1110 | 1400 | 1710 |
| ≥ 50  | ≥ 40 | 350 | 470 | 690  | 920  | 1180 | 1450 |
- JOGGLES TO BARS SHALL BE 1 BAR DIAMETER OVER A LENGTH OF 12 BAR DIAMETERS.
  - WELDING OF REINFORCEMENT BARS IS ONLY PERMITTED WHERE SHOWN ON THE DRAWINGS OR OTHERWISE APPROVED BY THE SUPERINTENDENT. WHERE WELDING OF REINFORCEMENT IS APPROVED, IT SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1554, PART 3.

DESIGN CRITERIA:

- SURCHARGE LOADING ON BORED PILE RETAINING WALLS = 5kPa, SURCHARGE LOADING ON MAGNUMSTONE RETAINING WALL = 10kPa.
- EARTH PRESSURE AND DEAD LOAD IN ACCORDANCE WITH AS4678.
- WIND LOAD ON FENCES.  
ANNUAL PROBABILITY OF EXCEEDANCE: 1/100 ULS  
TERRAIN CATEGORY 3: 1/25 SLS.
- DESIGN LIFE : 50 YEARS

MASONRY NOTES

- ALL MASONRY SHALL COMPLY WITH AS3700 AND THE PROJECT SPECIFICATION.
- CONCRETE MASONRY UNITS TO HAVE A MINIMUM CHARACTERISTIC UNCONFINED STRENGTH OF 15MPa IN ACCORDANCE WITH AS2733. BRICKS TO HAVE A CHARACTERISTIC UNCONFINED STRENGTH OF 10MPa.
- MASONRY UNITS TO BE BEDDED IN FRESHLY PREPARED MORTAR UNIFORMLY MIXED IN THE RATIO OF ONE (1) PART CEMENT, ONE (1) PART LIME AND SIX (6) PARTS SAND, CONFORMING TO AS2701 'BRICKIES LOAM' SHALL NOT BE USED.
- GROUT SHALL HAVE A COMPRESSIVE STRENGTH (f'c) OF 20MPa AT 28 DAYS, A SLUMP OF 125mm IN A 150mm SLUMP CONE, A MAXIMUM AGGREGATE SIZE OF 10mm AND BE IN ACCORDANCE WITH AS3700.
- DEFORMED BAR REINFORCEMENT SHALL CONFORM TO AS4671.
- EXTREME CARE MUST BE TAKEN TO CORRECTLY POSITION STARTER BARS IN FOOTINGS IN ACCORDANCE WITH DETAILS.
- REFER TO THE DRAWINGS FOR DETAILS ON VERTICAL CONTROL JOINTS.
- ALL WALL INTERSECTIONS SHALL BE FULLY BONDED OR TIED UNLESS NOTED OTHERWISE.
- PROVIDE CLEAN-OUT OPENINGS AT THE BOTTOM OF ALL CORES FOR INSPECTION AND TYING OF REINFORCEMENT.
- FACE SHELLS AND CROSS WEBS TO BE FULLY BEDDED.
- ALL CORES TO BE CLEANED OUT AFTER EACH DAYS LAYING.
- VERTICAL WALL REINFORCEMENT SHALL BE TIED TO STARTER BARS AND RESTRAINED AT TOP OF WALL IN ITS REQUIRED LOCATION IN ACCORDANCE WITH THE DETAILS SO AS NOT TO MOVE DURING GROUT FILLING OF THE WALL.
- WET ALL CORES PRIOR TO POURING GROUT.
- FULLY GROUT ALL CORES IN REINFORCED WALLS, UNLESS NOTED OTHERWISE.
- GROUT TO BE THOROUGHLY COMPACTED TO ENSURE COMPLETE FILLING OF ALL CORES.
- FILL CORES TO A MAXIMUM OF 3m IN HEIGHT FOR ANY ONE POUR. ALL GROUT POURS TO STOP 25mm BELOW TOP OF BLOCKS.
- WALL SHALL BE PROPPED DURING BACKFILLING OPERATIONS.
- UNLESS NOTED OR SHOWN OTHERWISE ON THE DRAWINGS THERE ARE TO BE NO CHASES OR RECESSES PERMITTED IN THE MASONRY WALLS WITHOUT THE PRIOR APPROVAL OF 'SMEC'.
- USE OF 'H' BLOCKS ARE PREFERRED FOR RETAINING WALL CONSTRUCTION
- ALL BRICKS AND BLOCKS TO HAVE BEEN STORED FOR 6 MONTHS OUTDOORS PRIOR TO USE IN WALLS.

FOUNDATION NOTES:

- GROUND UNDER RETAINING WALL FOOTING IS TO BE STRIPPED OF TOP SOIL, FILL AND ORGANIC MATERIAL TO EXPOSE A NATURALLY OCCURRING IN-SITU MATERIAL.
- RETAINING WALLS TO BE FOUNDED ON NATURALLY OCCURRING IN-SITU MATERIAL OR FILL AS DETAILED BELOW WITH AN SLS BEARING CAPACITY OF 200 kPa. TO BE CONFIRMED BY AN EXPERIENCED GEOTECHNICAL ENGINEER.
- FOUNDATION MATERIAL TO BE PROOF-ROLLED WITH A 10t NON-VIBRATORY ROLLER AND VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. ANY SOFT/HEAVING GROUND SHALL BE REPLACED WITH FILL AS PER THE REQUIREMENTS BELOW.
- WHERE FILL IS REQUIRED TO ADJUST THE FOUNDATION LEVEL OR REPLACE OVER-EXCAVATION IT IS TO CONFORM TO THE FOLLOWING REQUIREMENTS:

PROPERTY	REQUIREMENT
MAXIMUM PARTICLE DIMENSION	53 mm
PERCENTAGE PASSING	
2.36 mm AS SIEVE	≤ 50 %
0.075 mm AS SIEVE	≤ 15 %
PLASTICITY INDEX	≤ 15 %
- FILL IS TO BE PLACED IN LAYERS OF 150 mm MAXIMUM THICKNESS AFTER COMPACTION AND COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 100% STANDARD MAXIMUM DRY DENSITY (SMDD) (MINIMUM OF 2 TESTES PER LAYER) AND MOISTURE CONDITIONED TO BE WITHIN +/-2% OF OPTIMUM MOISTURE CONTENT FINAL SURFACE SHALL BE PROOF-ROLLED AS PER NOTE 3 ABOVE.
- IF FILL THICKNESS IS LESS THAN 150 mm USE MASS CONCRETE RATHER THAN FILL.
- FILL MATERIAL IS TO EXTEND FOR AT LEAST 1000 mm EITHER SIDE OF THE FOOTING.
- FOR FOOTINGS FOUNDED ON CLAY, IF ANY TREES ARE REMOVED FROM OR PRESENT WITHIN THE VICINITY OF THE FOOTING, ADVICE IS TO BE SOUGHT FROM AN EXPERIENCED GEOTECHNICAL ENGINEER WITH REGARD TO SHRINK/SWELL POTENTIAL OF THE GROUND.

DRAFT

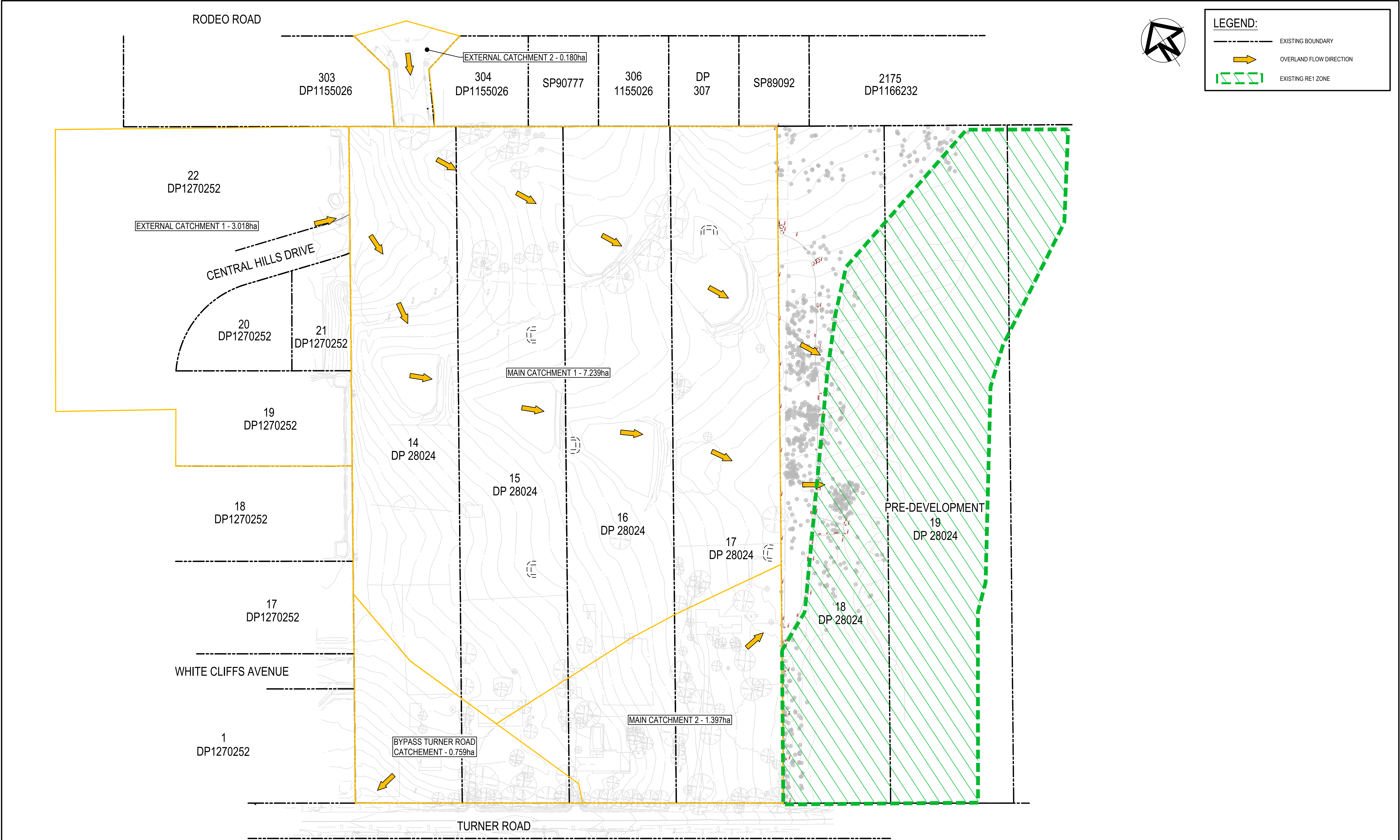
INDICATIVE ONLY.  
TO BE FINALISED DURING  
DETAILED DESIGN.

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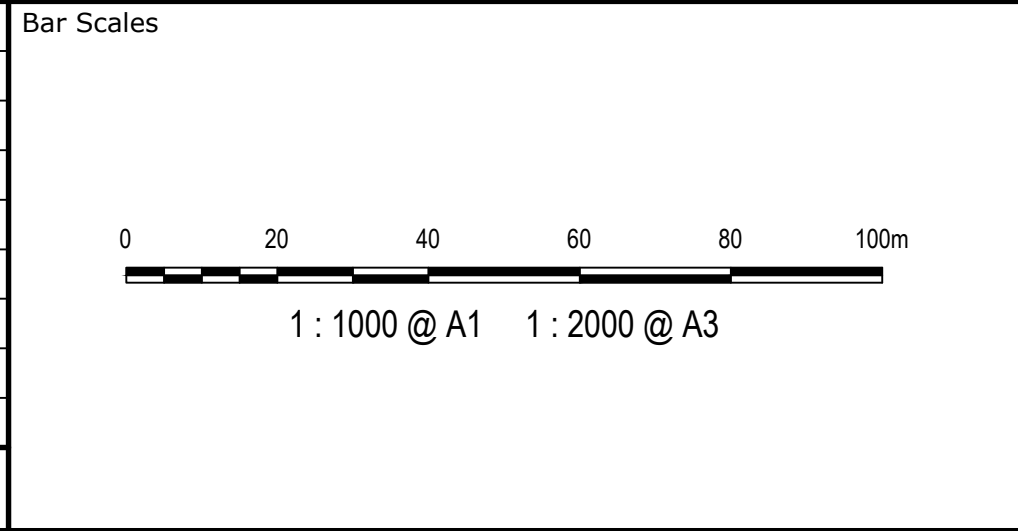
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K	ISSUED FOR DA	13-01-23
J	ISSUED FOR DA	07-11-22
G	ISSUED FOR DA	30-08-22
F	ISSUED FOR DA APPROVAL	29-06-22
E	ISSUED FOR DA APPROVAL	22-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
B	ISSUED FOR APPROVAL	04-11-21
Issue	Description	Date



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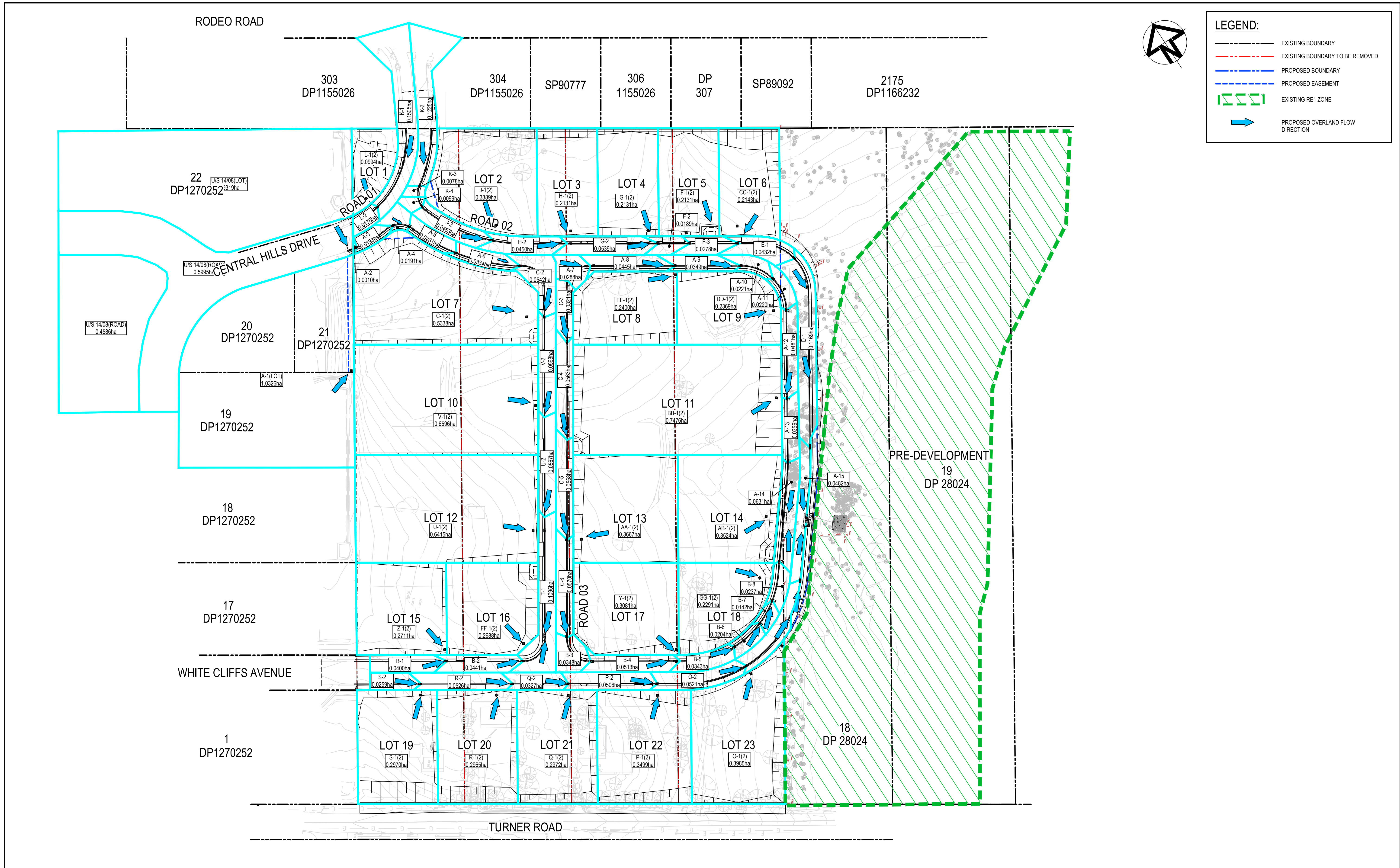
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Scales	1:1000
Grid	GDA 2020
Height Datum	AHD
Drawn	JH
Designed	JH
Checked	ALa
Approved	

Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)

Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C501	Issue L



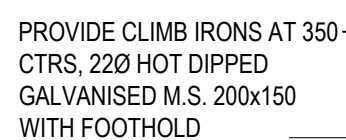


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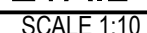




CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE  
DESIGNED AND APPROVED BY STRUCTURAL ENGINEER



SCALE: 1:20



CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE  
DESIGNED AND APPROVED BY STRUCTURAL ENGINEER

NOTE: STRUCTURAL DETAIL OF PITS TO BE CONFIRMED  
AT DETAILED DESIGN



SCALE: 1:20

- NOTE

1. STANDARD GULLY PITS REFER TO CAMDEN COUNCIL STANDARD DRAWING SD12 FOR DETAILS
2. FOR INLET SIZE REFER TO STORMWATER LONGITUDINAL SECTIONS ON DRAWINGS C521 - C525
3. FOR PIT CHAMBER SIZE REFER PIT SCHEDULE
4. REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATELY PROVIDE N12 "L" BARS (500/500) AT 400 VERTICAL CTS.
5. COMPRESSIVE STRENGTH (F<sub>c</sub>) FOR CAST IN SITU CONCRETE SHALL BE CONFIRMED BY CONTRACTOR AND STRUCTURAL ENGINEER
6. TOP OF BENCHING SHALL BE  $\frac{1}{2}$  OF OUTLET PIPE DIAMETER.
7. 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES.
8. ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
9. PIT GRATE TO BE 'WELDLOK' GULLY GRATE GG 78-50 OR APPROVED EQUIVALENT.
10. DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN INLET AND OPENED GRATE (REFER TO INSTALLATION TOLERANCE).
11. PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.
12. CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE DESIGNED AND APPROVED BY STRUCTURAL ENGINEER

100mm on Original

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STORMWATER DRAINAGE  
DETAILS  
SHEET 1

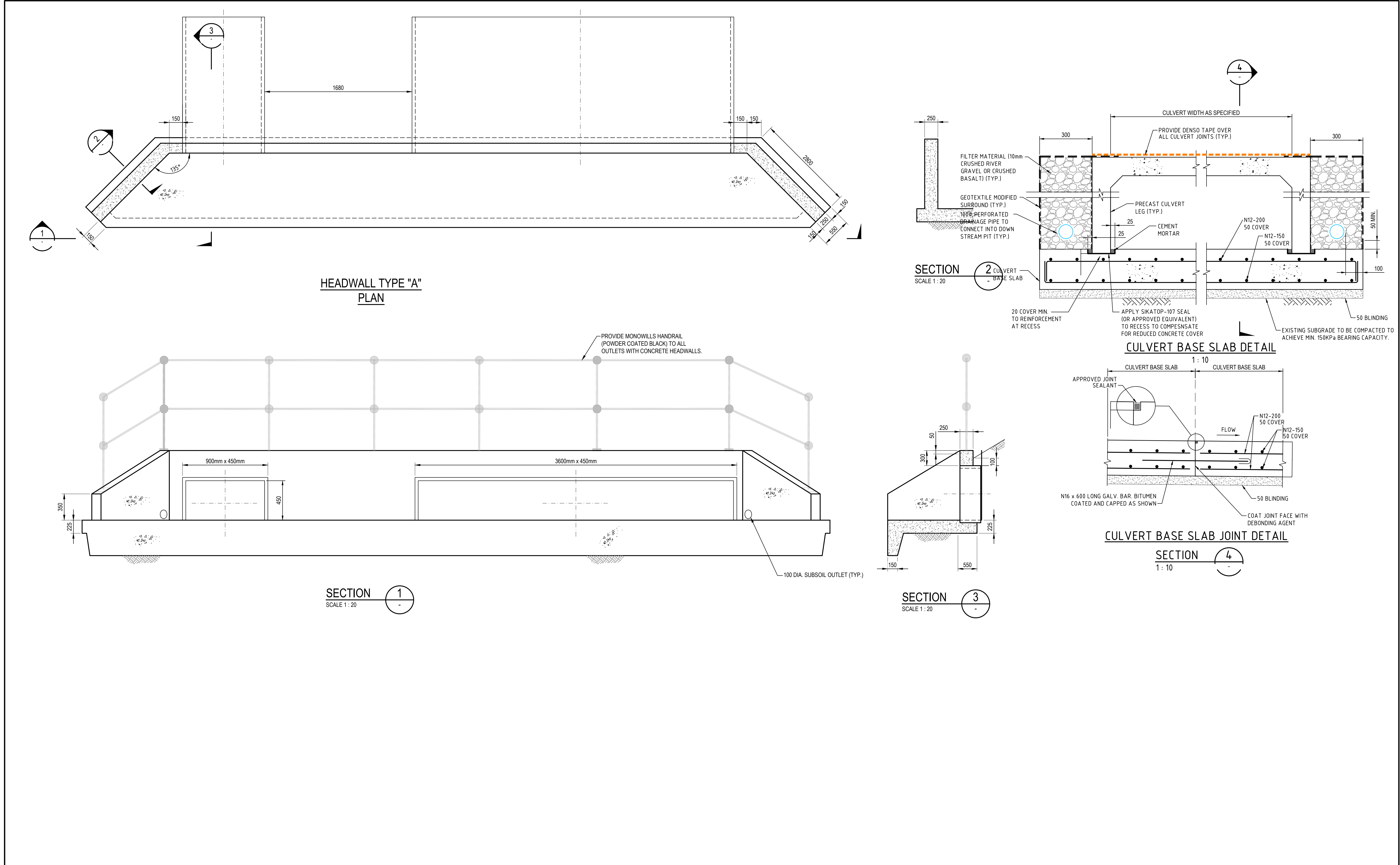
Civil Engineers and Project Managers





**at&I**

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
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[www.atl.net.au](http://www.atl.net.au)  
[info@atl.net.au](mailto:info@atl.net.au)

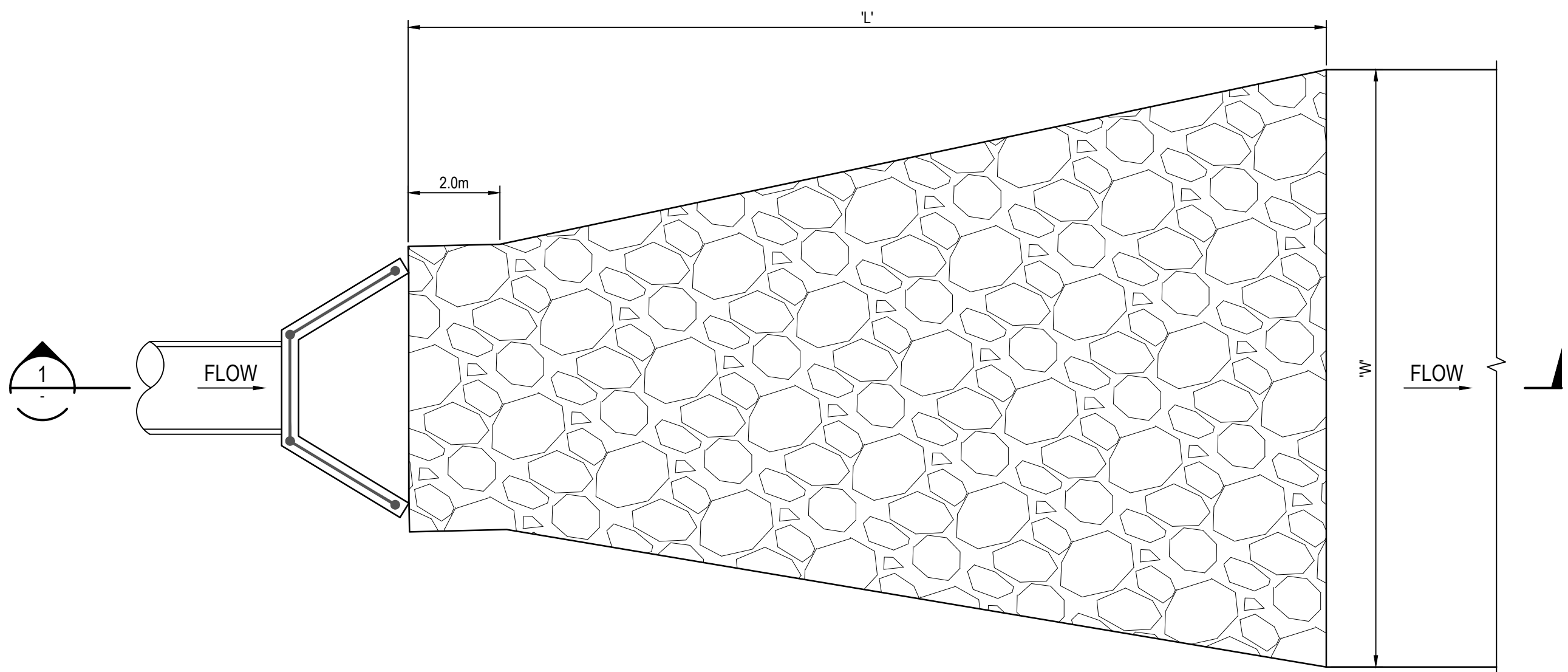
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Project - Drawing No.	21-889-C531	Issue E



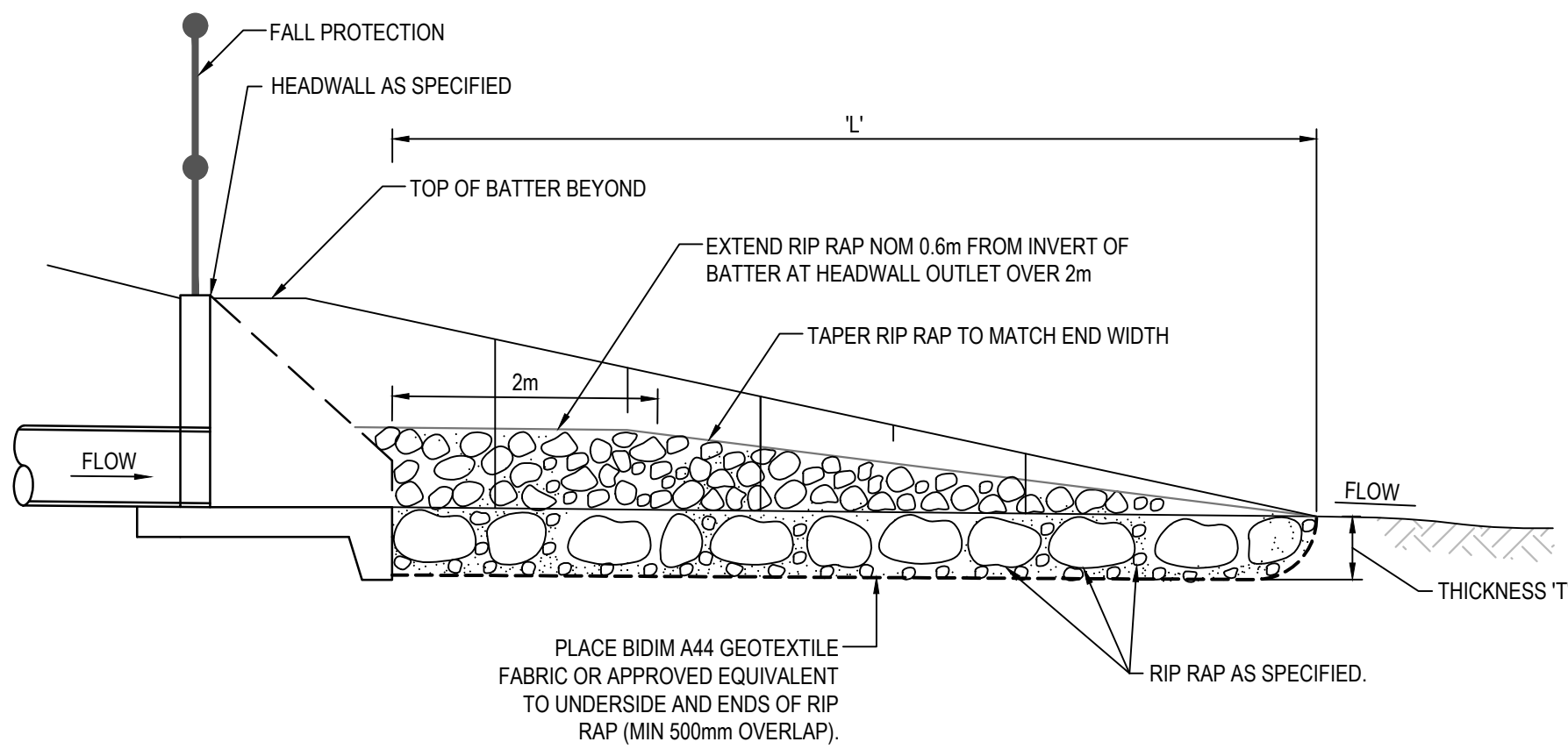


			Bar Scales				Client		Scales		Drawn		JH		Project		Civil Engineers and Project Managers	
							TURNER ROAD INDUSTRIAL PTY LTD		AS SHOWN		Designed		TS		43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE			
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E ISSUED FOR DA			23-01-23						Height Datum AHD		Approved				Title		Status	
D ISSUED FOR DA			13-01-23										STORMWATER DRAINAGE DETAILS SHEET 2		ISSUED FOR DA NOT FOR CONSTRUCTION		A1	
C ISSUED FOR DA			07-11-22												Project - Drawing No. 21-889-C532		Issue E	
B ISSUED FOR DA			23-09-22															
A ISSUED FOR DA			30-08-22															
Issue			Description		Date													





RIP RAP OUTLET PROTECTION  
TYPE 1 DETAIL  
1 : 100



SECTION  
NTS  
1

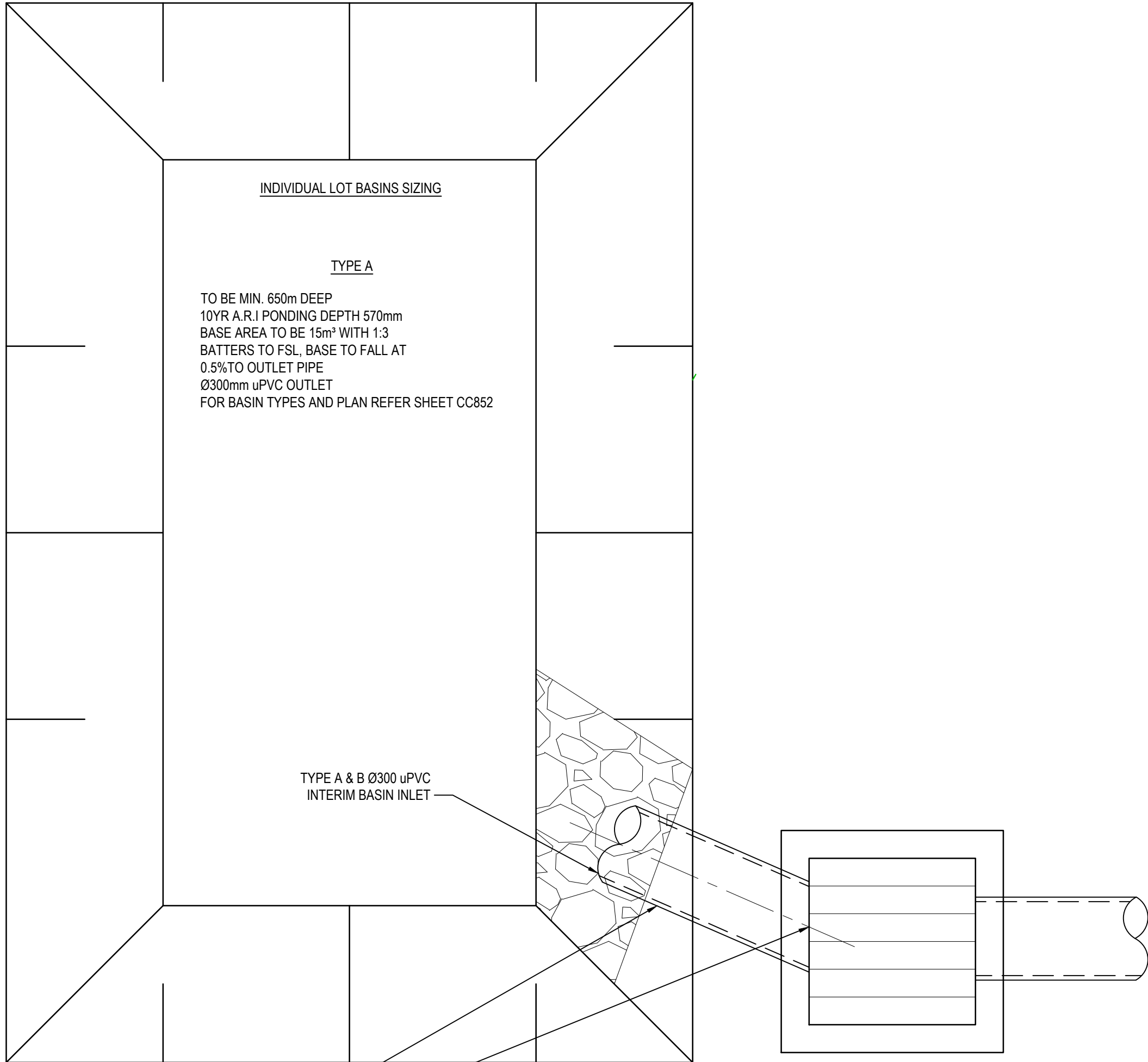
SCOUR PROTECTION SCHEDULE

OUTLET HEADWALL No.	PIPE Ø (mm)	LENGTH OF PROTECTION (m)	WIDTH OF PROTECTION (m)	NOMINAL ROCK SIZE (mm)	THICKNESS OF PROTECTION (mm)
	'D'	'L'	'W'	'D <sub>50</sub> '	'T'
D/9	1350	16.200	4.050	600	900
AL/10	2100	16.800	6.300	400	600
F/17	1200	9.600	3.600	400	600
H/2	3x2100	16.800	18.900	300	450
CA/2	1500	15.000	4.500	500	750
BD/2	450	3.600	13.500	400	600

NOTE:  
1. MINIMUM NOMINAL ROCK SIZE 'D<sub>50</sub>' IS 300mm.  
2. THICKNESS 'T' IS 1.5 x NOMINAL ROCK SIZE  
3. ROCK IS NOT TO BE SITE WON SHALE OR OTHER WEATHERABLE ROCK

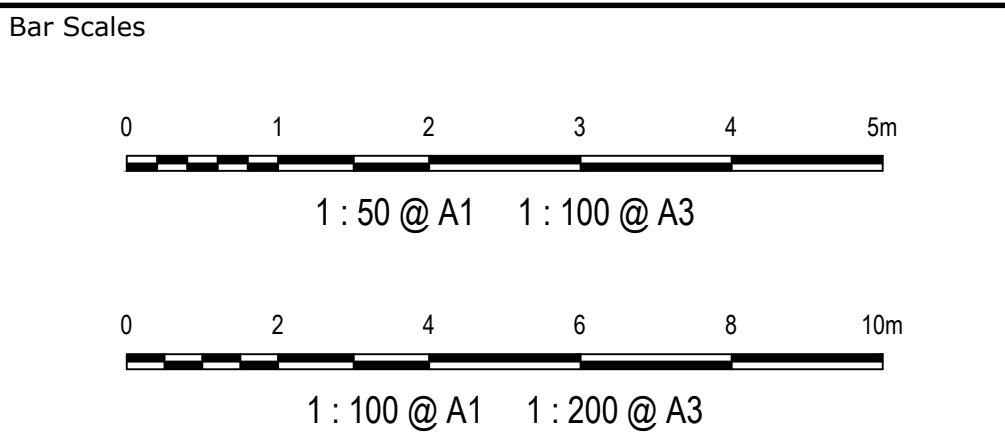
ROCK GRADATION TABLE

ROCK SIZE (mm)	D <sub>50</sub> (NOMINAL ROCK DIAMETER OF WHICH 50% OF THE ROCKS IS SMALLER)					ROCK DISTRIBUTION BY %
	200mm	300mm	400mm	500mm	600mm	
400	600	750	850	900		15-25%
300	400	525	600	750		20%
200	300	400	500	600		50%
75	100	150	150	200		15-25%



INTERIM DETENTION BASIN AND PIT ARRANGEMENT  
DETAIL  
NTS

E	ISSUED FOR DA	23-01-23
D	ISSUED FOR DA	13-01-23
C	ISSUED FOR DA	07-11-22
B	ISSUED FOR DA	23-09-22
A	ISSUED FOR DA	30-08-22
Issue	Description	Date



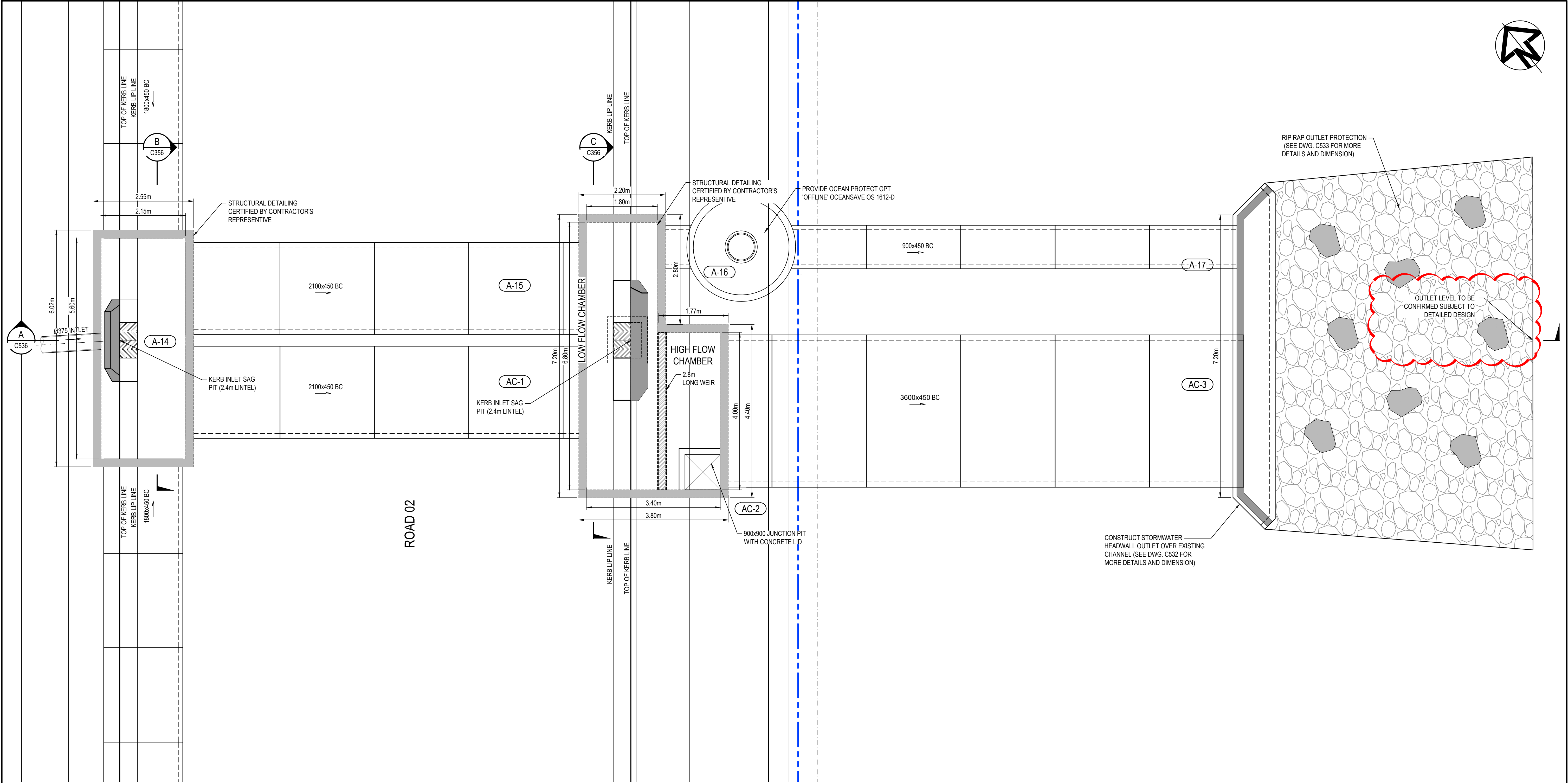
Client	TURNER ROAD INDUSTRIAL PTY LTD
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Scales	AS SHOWN
Grid	GDA 2020
Height Datum	AHD
GDA2020	

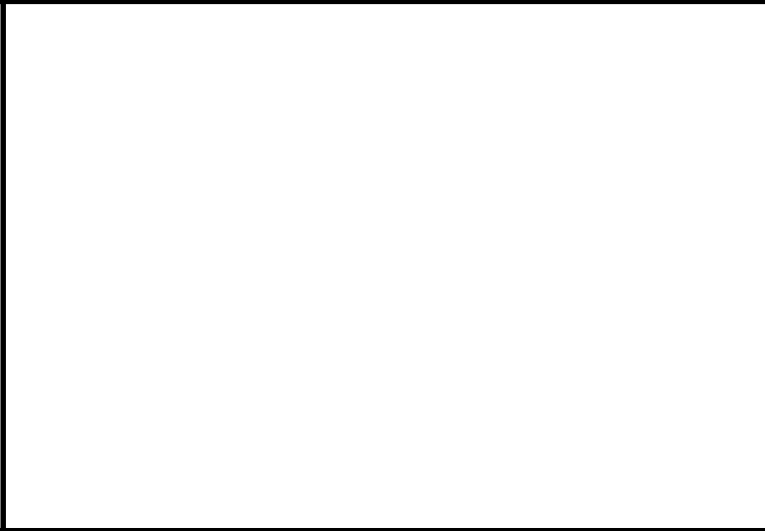
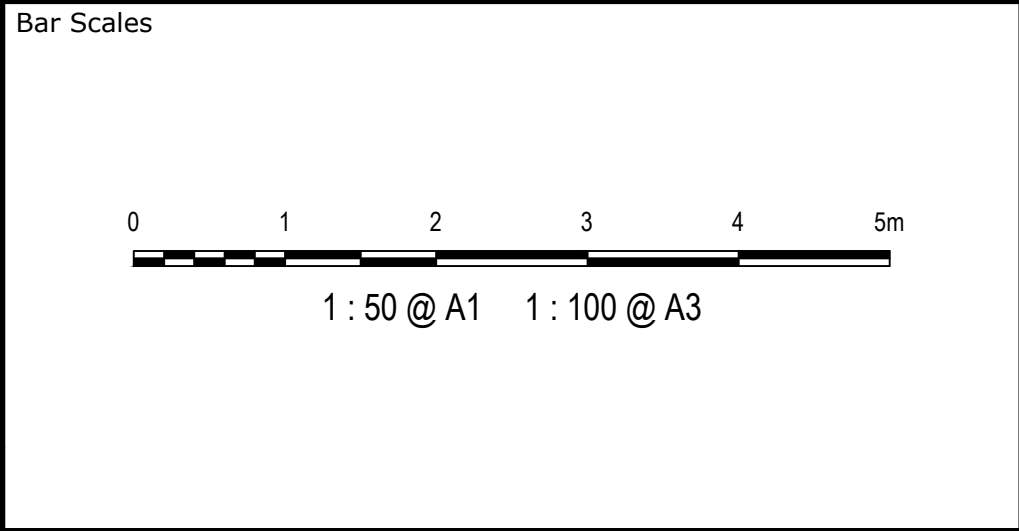
Project	43-61 TURNER ROAD GREGORY HILLS TURNER ROAD INDUSTRIAL ESTATE
Title	STORMWATER DRAINAGE DETAILS SHEET 3

Civil Engineers and Project Managers		
at&I Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C533	Issue E





E	ISSUED FOR DA	23-01-23
D	ISSUED FOR DA	13-01-23
C	ISSUED FOR DA	07-11-22
B	ISSUED FOR DA	23-09-22
A	ISSUED FOR DA	30-08-22
Issue	Description	Date



Client  
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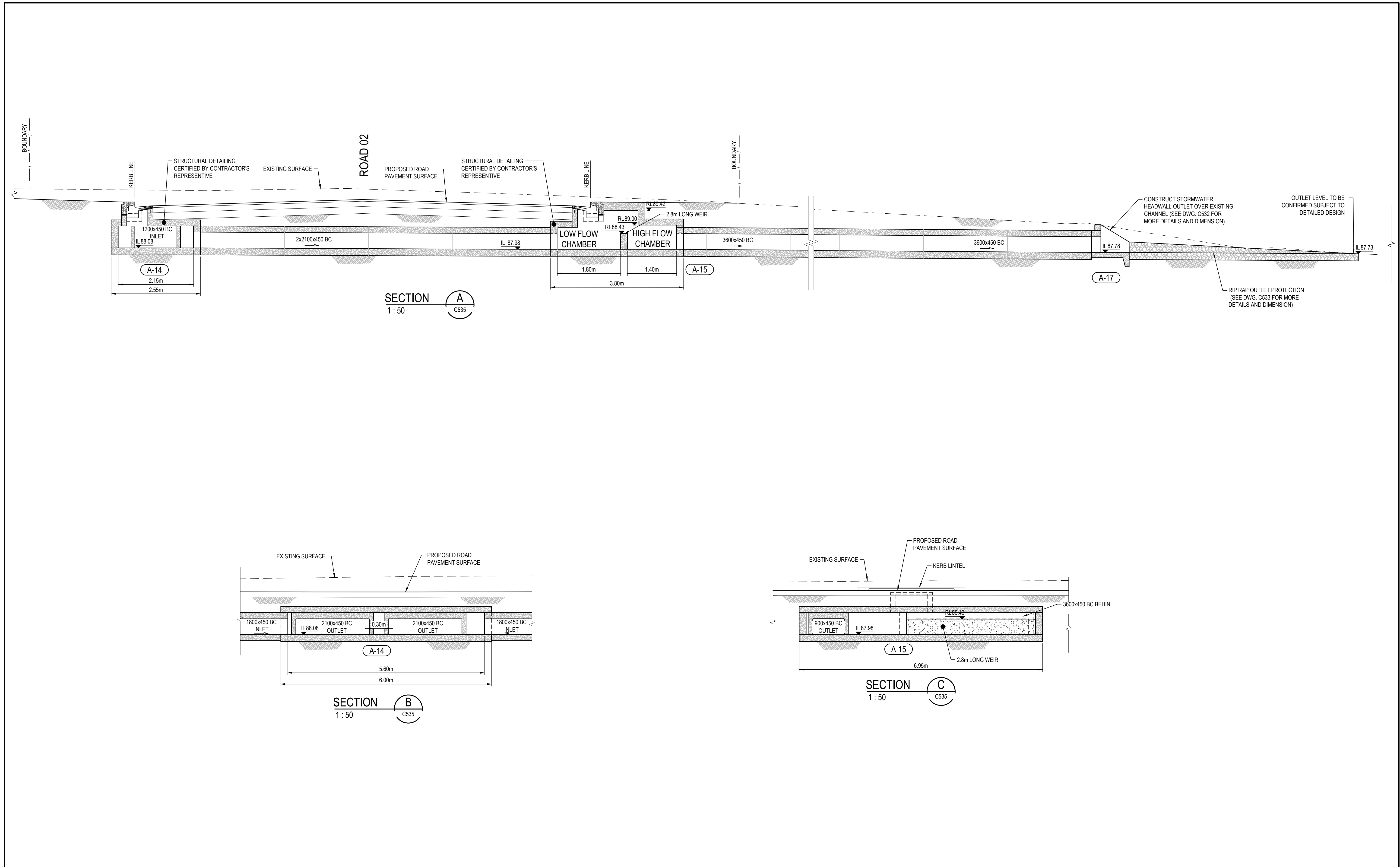
Scales	1:50	Drawn	JH
		Designed	TS
Grid	GDA 2020	Checked	ALa
Height Datum	AHD	Approved	

Project  
**43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE**

Title  
**STORMWATER DRAINAGE  
PITS ARRANGEMENT  
PLAN**

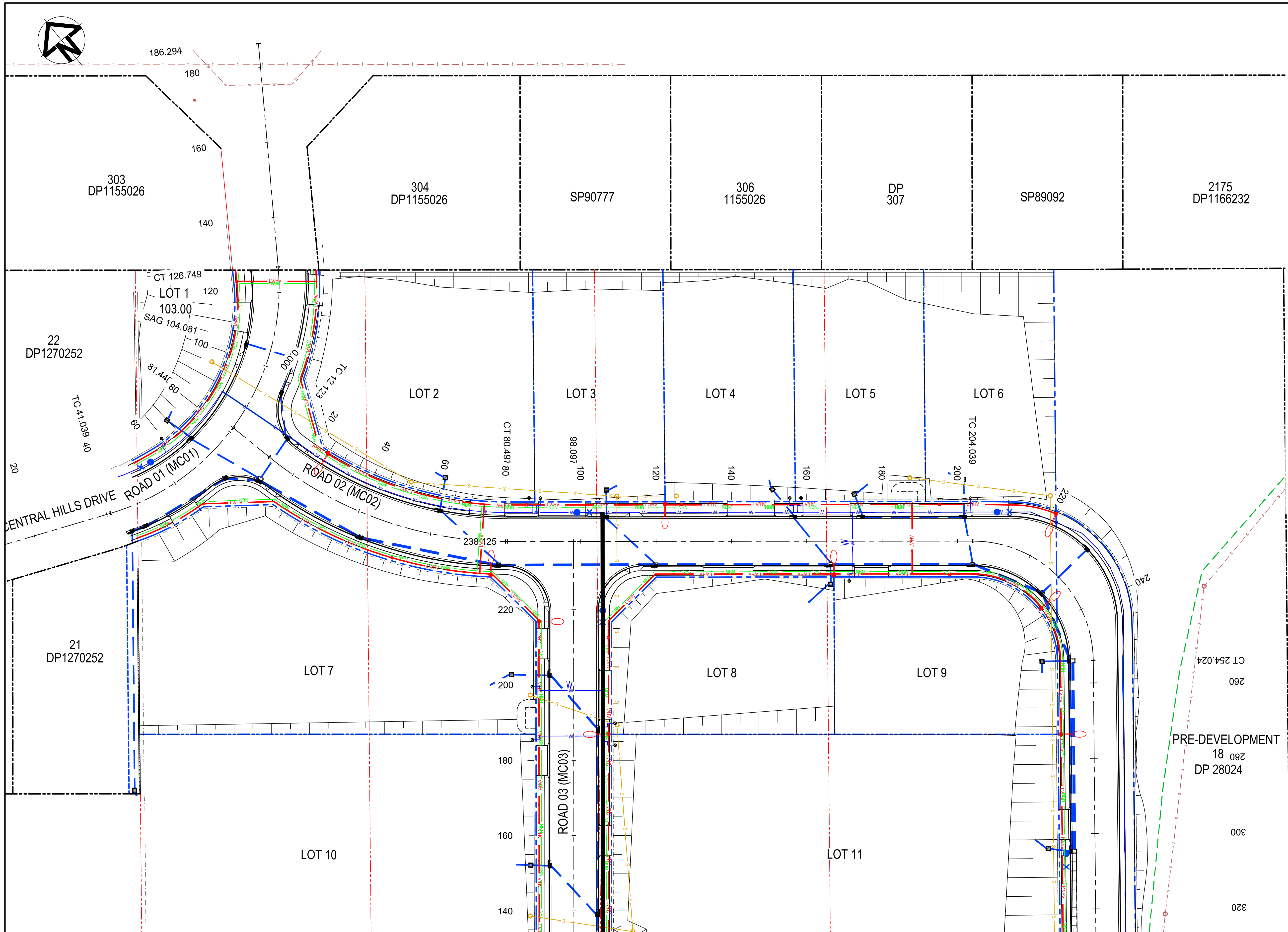
Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C535	Issue E





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LEGEND:

EXISTING BOUNDARY

EXISTING BOUNDARY TO BE REMOVED

PROPOSED BOUNDARY

PROPOSED EASEMENT

EXISTING ELECTRICITY

EXISTING SEWER

EXISTING POTABLE WATER

EXISTING TELECOM

EXISTING GAS

PROPOSED ELECTRICITY

PROPOSED SEWER

PROPOSED POTABLE WATER

PROPOSED TELECOM

PROPOSED FENCE

PROPOSED STREET LIGHTING

PROPOSED WATER HYDRANT

PROPOSED WATER STOP VALVE

PROPOSED SEWER MAINTENANCE STRUCTURE

PROPOSED BATTER  
1(V):3(H) U.N.O

PROPOSED RETAINING WALL

PROPOSED KERB RAMP

PROPOSED SUB SOIL

PROPOSED STORMWATER JUNCTION PIT

PROPOSED STORMWATER JUNCTION PIT

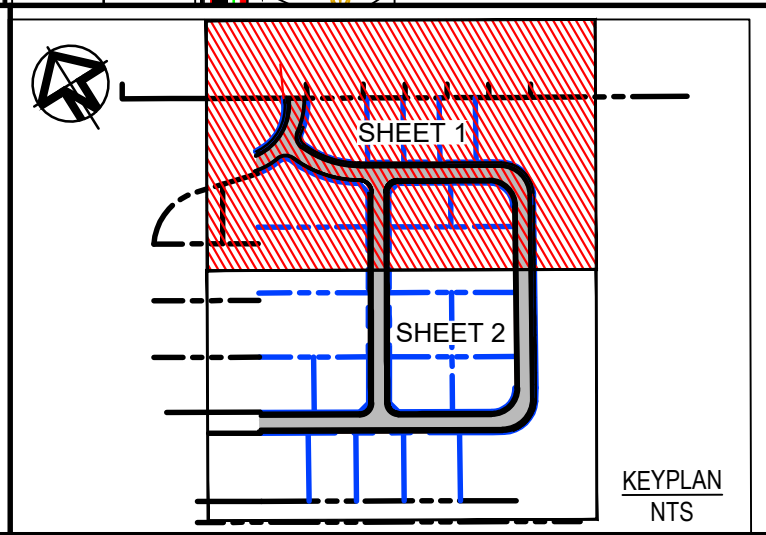
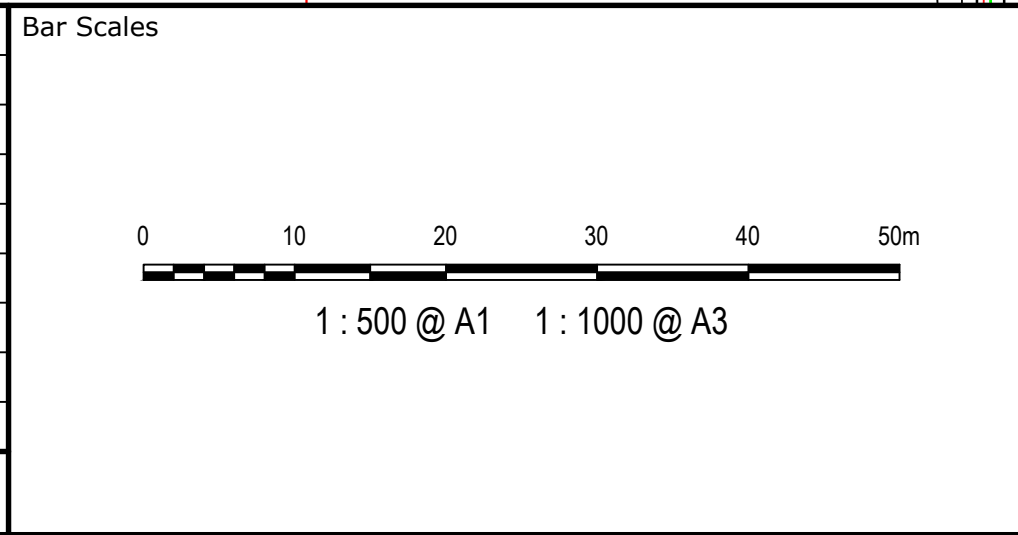
PROPOSED STORMWATER KERB INLET PIT WITH LINTEL

PROPOSED STORMWATER PIPE WITH HEADWALL

PROPOSED CAPPED STORMWATER PIPE

PROPOSED STORMWATER LINE

M	ISSUED FOR DA	23-01-23
L	ISSUED FOR DA	13-01-23
K	ISSUED FOR DA	07-11-22
J	ISSUED FOR DA	23-09-22
H	ISSUED FOR DA	30-08-22
G	ISSUED FOR DA APPROVAL	29-06-22
F	ISSUED FOR DA APPROVAL	10-05-22
E	ISSUED FOR DA APPROVAL	22-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
Issue	Description	Date



Client

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Scales

1:500

Grid

GDA 2020

Height Datum

AHD

Drawn

JH

Designed

JH

Checked

ALa

Approved

GDA2020

Project

43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE

Title

SERVICES AND UTILITIES  
COORDINATION PLAN  
SHEET 1

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status

ISSUED FOR DA  
NOT FOR CONSTRUCTION

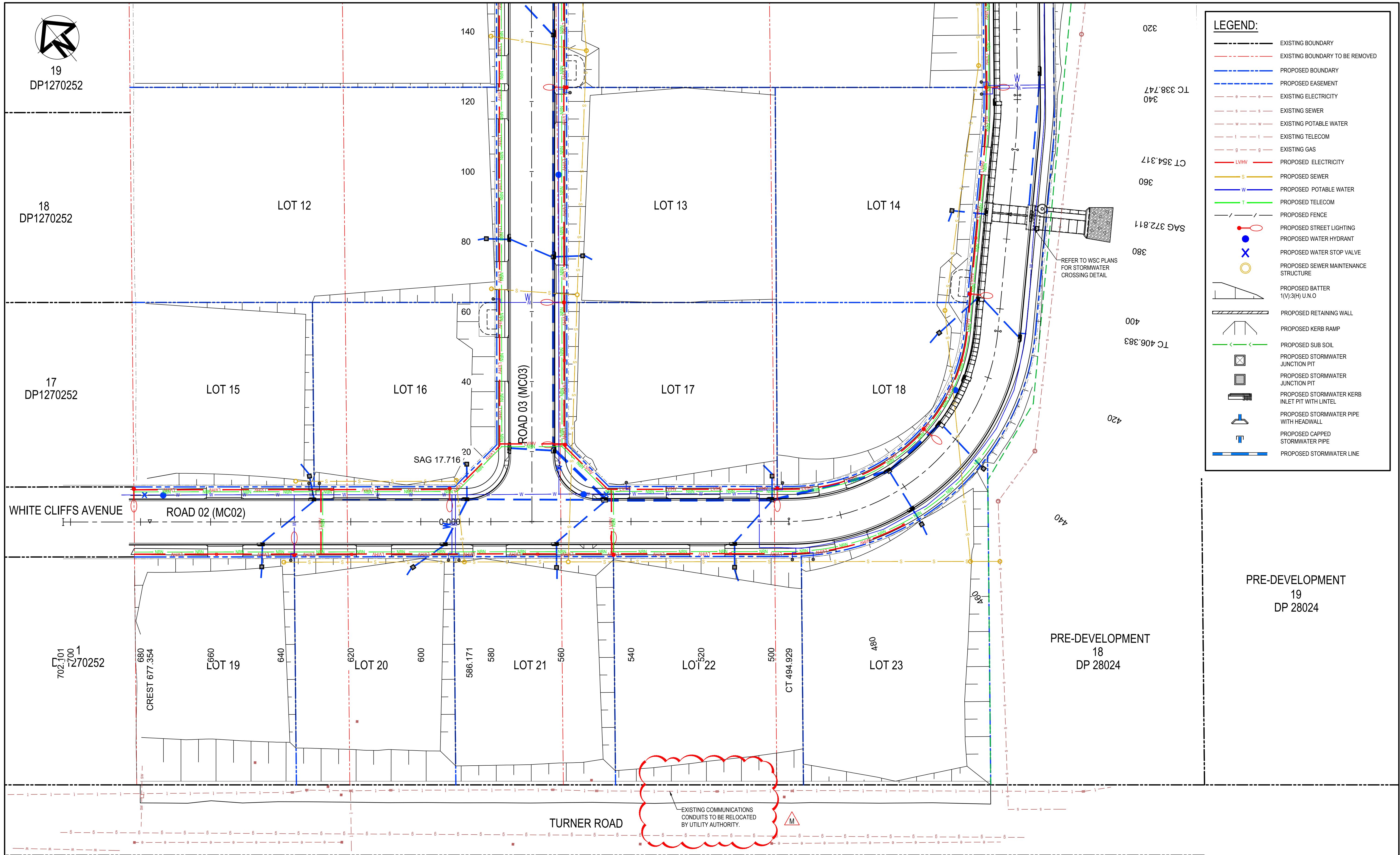
Project - Drawing No.

21-889-C701

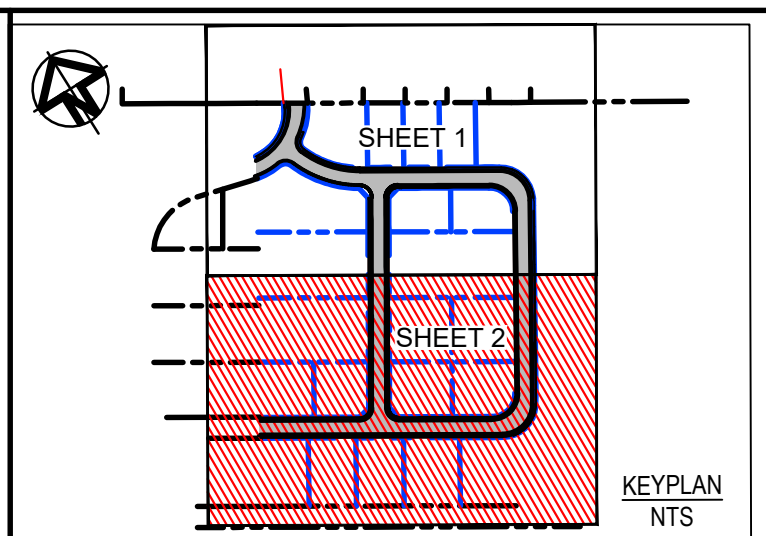
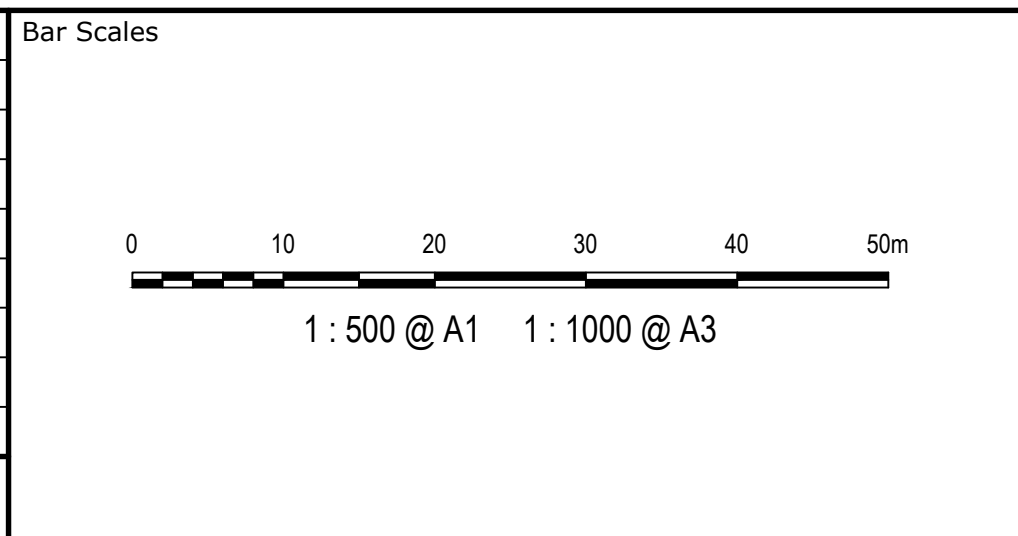
Issue

M





M	ISSUED FOR DA	23-01-23
L	ISSUED FOR DA	13-01-23
K	ISSUED FOR DA	07-11-22
J	ISSUED FOR DA	23-09-22
H	ISSUED FOR DA	30-08-22
G	ISSUED FOR DA APPROVAL	29-06-22
F	ISSUED FOR DA APPROVAL	10-05-22
E	ISSUED FOR DA APPROVAL	22-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
Issue	Description	Date



Client  
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Project  
43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE

Title  
SERVICES AND UTILITIES  
COORDINATION PLAN  
SHEET 2

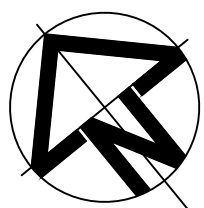
Civil Engineers and Project Managers

**at&l**

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No. 21-889-C702	Issue M





RODEO ROAD

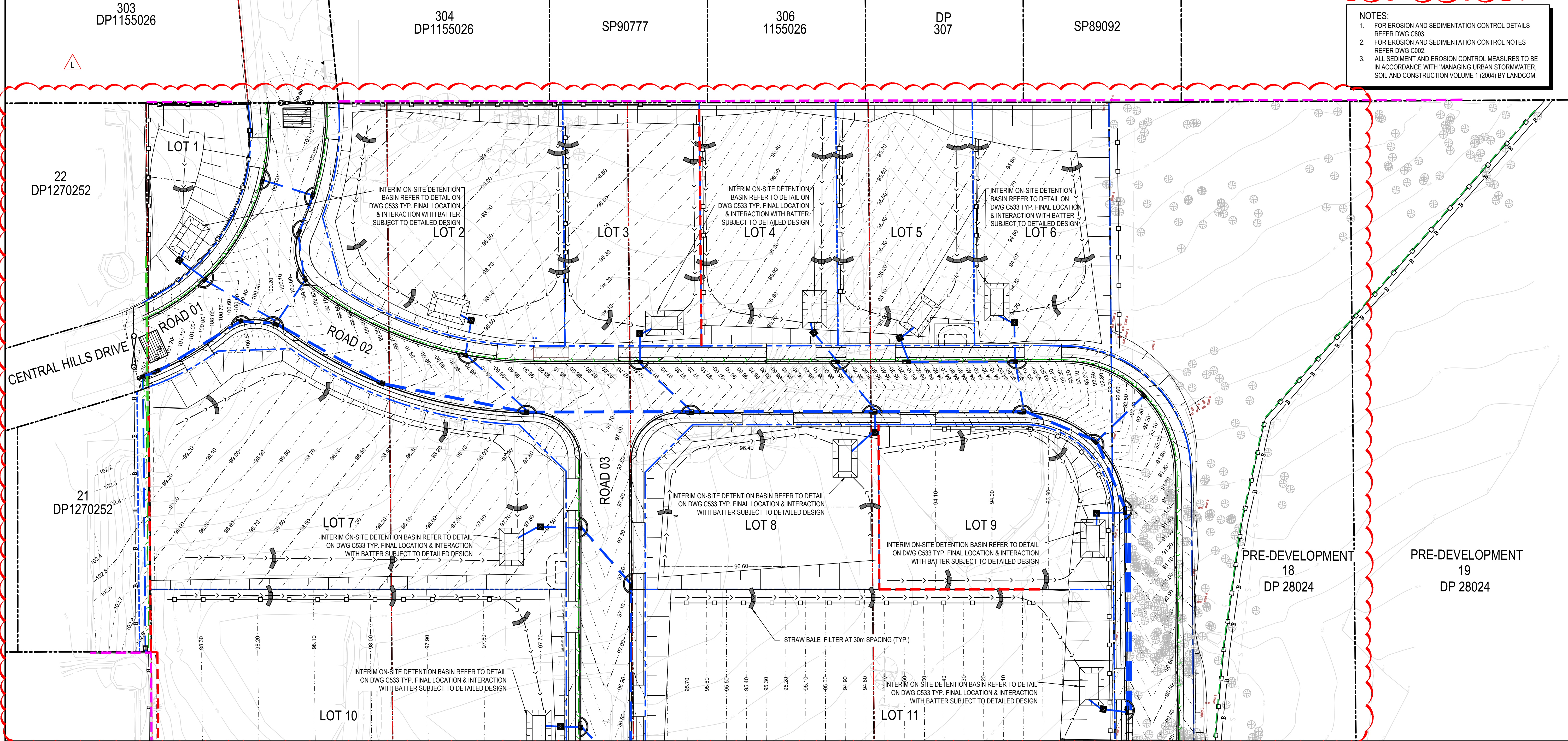
SEDIMENT BASIN VOLUMES			
LOT	LOT AREA (ha)	SETTLING ZONE VOLUME(m³)	BASIN VOLUME(m³)
1	0.010	1.290	1.290
2	0.338	43.615	43.615
3	0.213	14.910	14.910
4	0.213	14.910	14.910
5	0.213	14.910	14.910
6	0.213	14.910	14.910
7	0.562	39.354	39.354
8	0.243	17.031	17.031
9	0.243	17.031	17.031
10	0.659	46.179	46.179
11	0.747	96.440	97.440

LEGEND

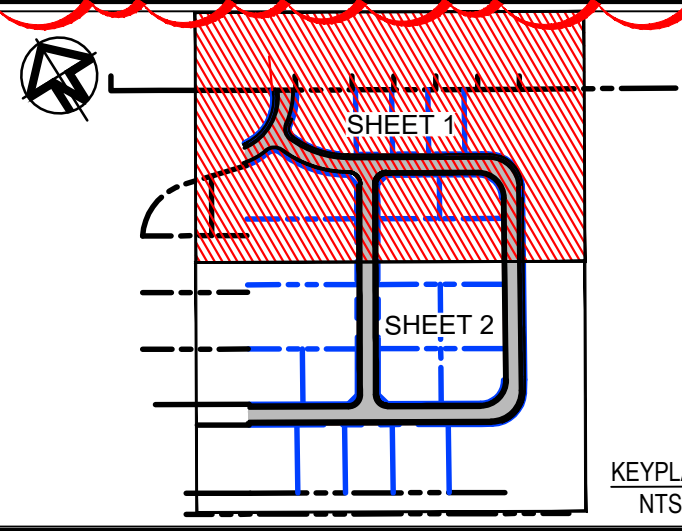
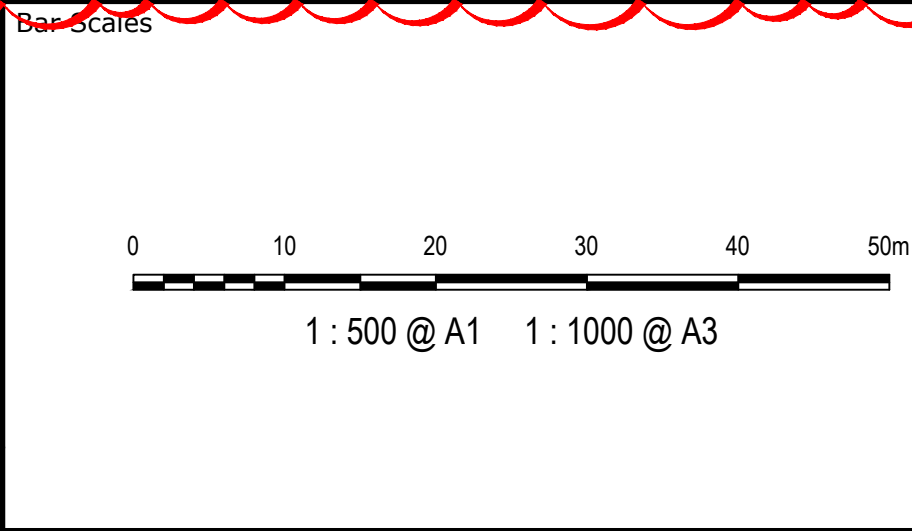
- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE
- PROPOSED RETAINING WALL
- EXISTING RETAINING WALL
- EXISTING RETAINING WALL TO BE REMOVED

NOTES:

- FOR EROSION AND SEDIMENTATION CONTROL DETAILS REFER DWG C803.
- FOR EROSION AND SEDIMENTATION CONTROL NOTES REFER DWG C002.
- ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, SOIL AND CONSTRUCTION VOLUME 1 (2004) BY LANDCOM.



Issue	Description	Date
L	ISSUED FOR DA	23-01-23
K	ISSUED FOR DA	13-01-23
J	ISSUED FOR DA	07-11-22
G	ISSUED FOR DA	30-08-22
F	ISSUED FOR DA APPROVAL	29-06-22
E	ISSUED FOR DA APPROVAL	22-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
B	ISSUED FOR APPROVAL	04-11-21



Client  
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Scale	1:500
Grid	GDA 2020
Height Datum	AHD
Drawn	JH
Designed	JH
Checked	ALa
Approved	

Project  
**43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE**

Title  
**SEDIMENT AND EROSION  
CONTROL PLAN  
SHEET 1**

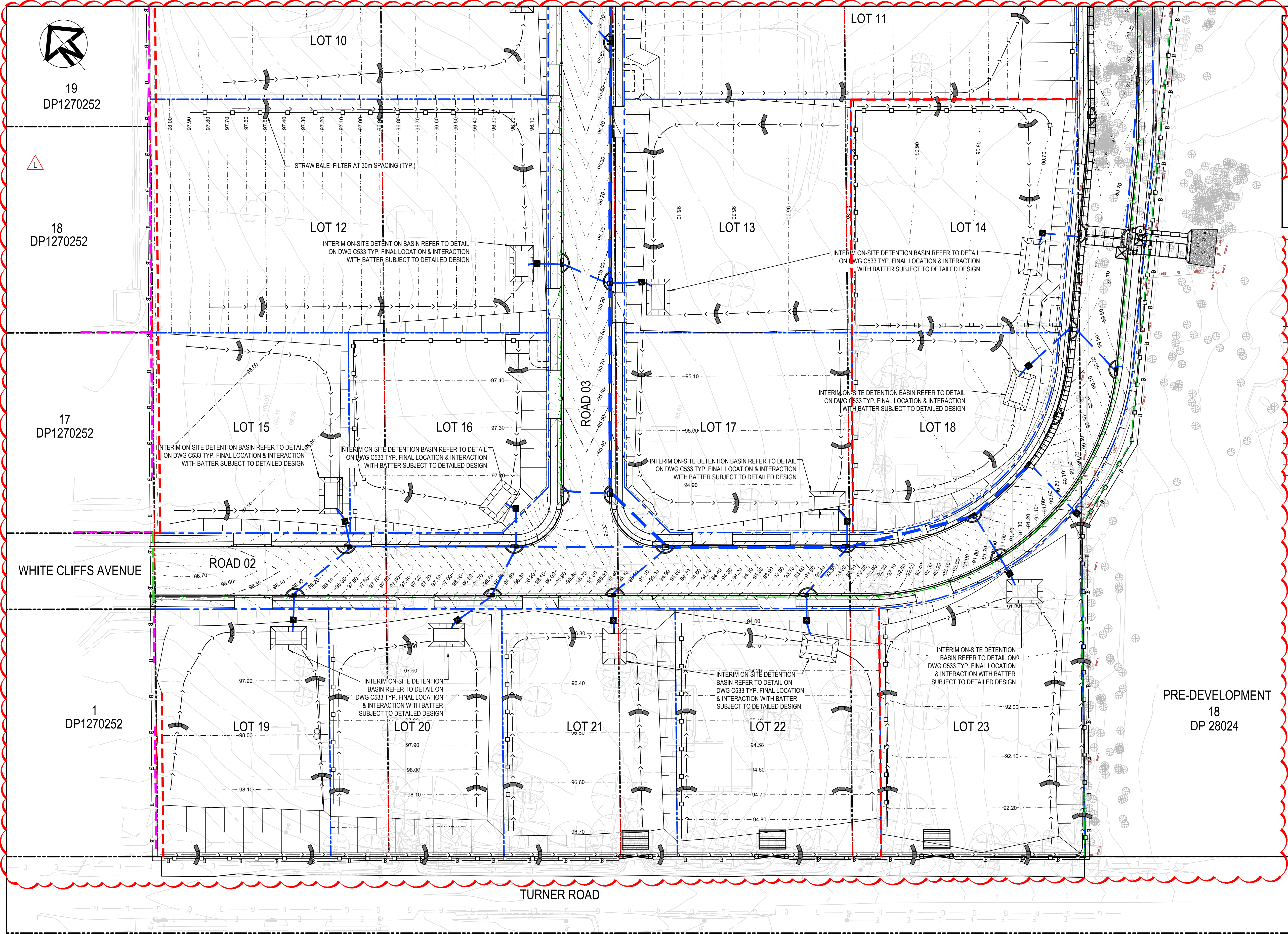
Civil Engineers and Project Managers

**at&l**

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C801	Issue
		L





LEGEND

SEDIMENT FENCE (SD 6-8)

CATCH DRAIN

BARRIER FENCE

STRAW BALE FILTER (SD 6-7)

MESH AND GRAVEL INLET FILTER (SD 6-11)

GEOTEXTILE INLET (SD 6-12)

STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)

PROPOSED SITE ACCESS GATE

PROPOSED RETAINING WALL

EXISTING RETAINING WALL

EXISTING RETAINING WALL TO BE REMOVED

- NOTES:
1.

FOR EROSION AND SEDIMENTATION CONTROL DETAILS  
REFER DWG C803.
2.

FOR EROSION AND SEDIMENTATION CONTROL NOTES  
REFER DWG C002.
3.

ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE  
IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER,  
SOIL AND CONSTRUCTION VOLUME 1 (2004) BY LANDCOM.

SEDIMENT BASIN VOLUMES			
LOT	LOT AREA (ha)	SETTLING ZONE VOLUME(m³)	BASIN VOLUME(m³)
12	0.747	82.741	82.741
13	0.366	25.669	25.669
14	0.366	25.669	25.669
15	0.271	18.984	18.984
16	0.271	18.984	18.984
17	0.311	21.798	21.798
18	0.311	21.798	21.798
19	0.311	21.798	21.798
20	0.311	21.798	21.798
21	0.311	21.798	21.798
22	0.350	24.500	24.500
23	0.350	24.500	24.500

PRE-DEVELOPMENT  
19  
DP 28024

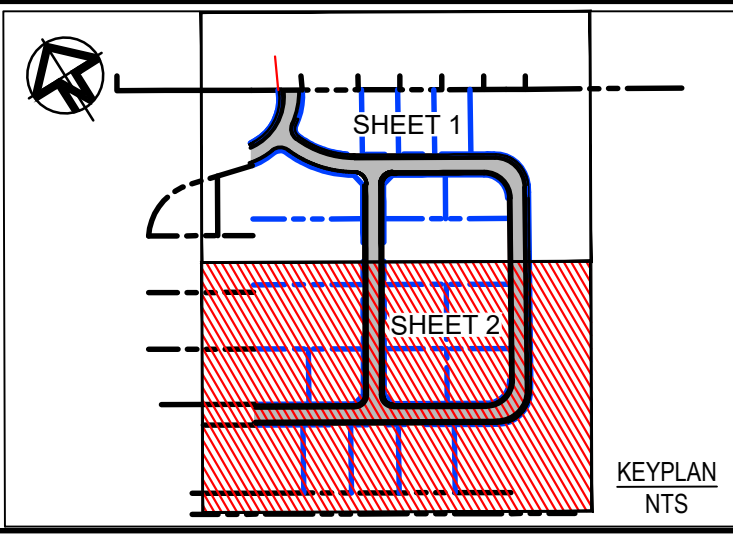
PRE-DEVELOPMENT  
18  
DP 28024

L	ISSUED FOR DA	23-01-23
K	ISSUED FOR DA	13-01-23
J	ISSUED FOR DA	07-11-22
G	ISSUED FOR DA	30-08-22
F	ISSUED FOR DA APPROVAL	29-06-22
E	ISSUED FOR DA APPROVAL	22-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
B	ISSUED FOR APPROVAL	04-11-21
Issue	Description	Date

Bar Scales

01020304050m

1: 500 @ A1 1: 1000 @ A3



Client  
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Scales  
1:500

Grid  
GDA 2020

Height Datum  
AHD

Drawn  
JH

Designed  
JH

Checked  
ALa

Approved

GDA2020

Project  
43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE

Title  
SEDIMENT AND EROSION  
CONTROL PLAN  
SHEET 2

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

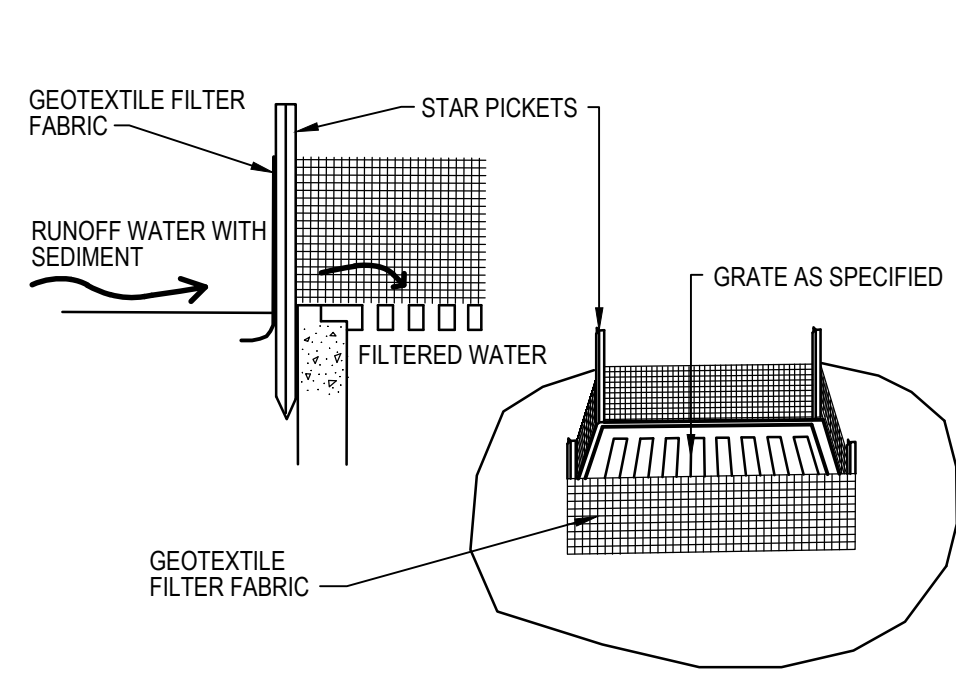
Status  
ISSUED FOR DA  
NOT FOR CONSTRUCTION

Project - Drawing No.  
21-889-C802

Issue  
L

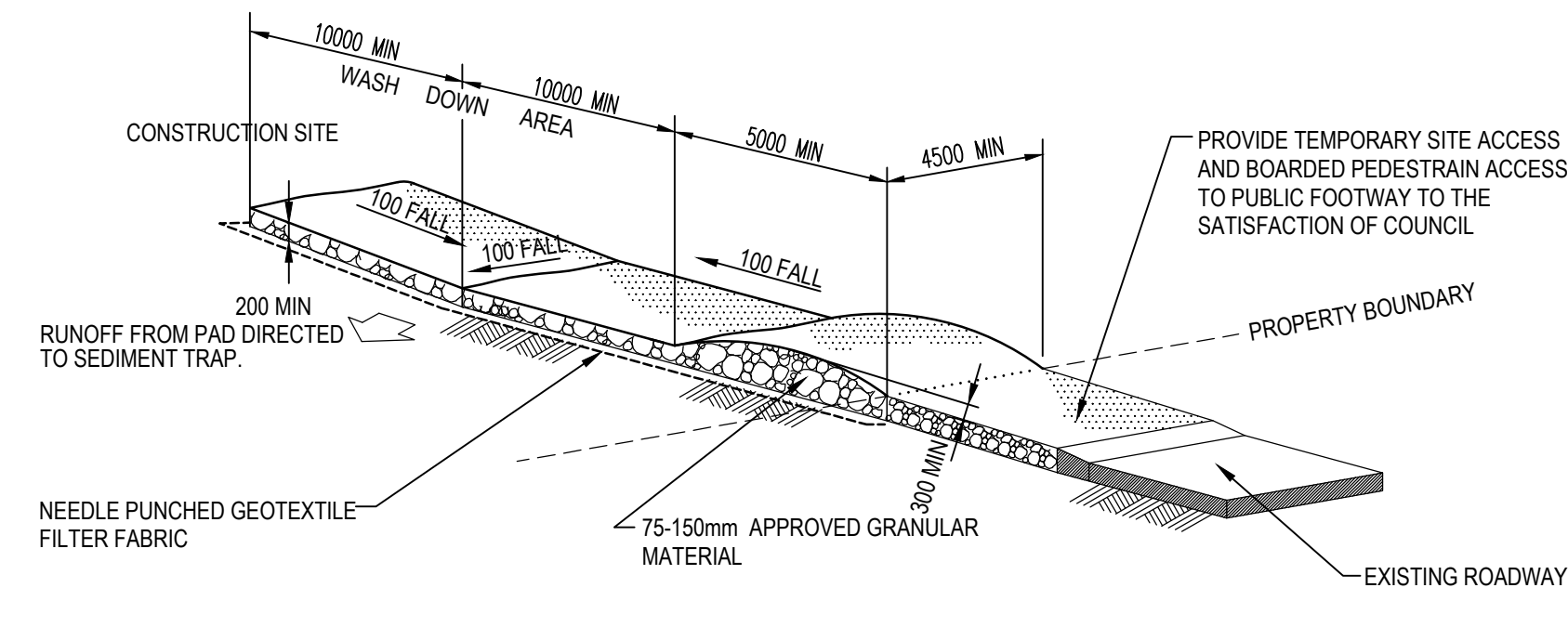
A1





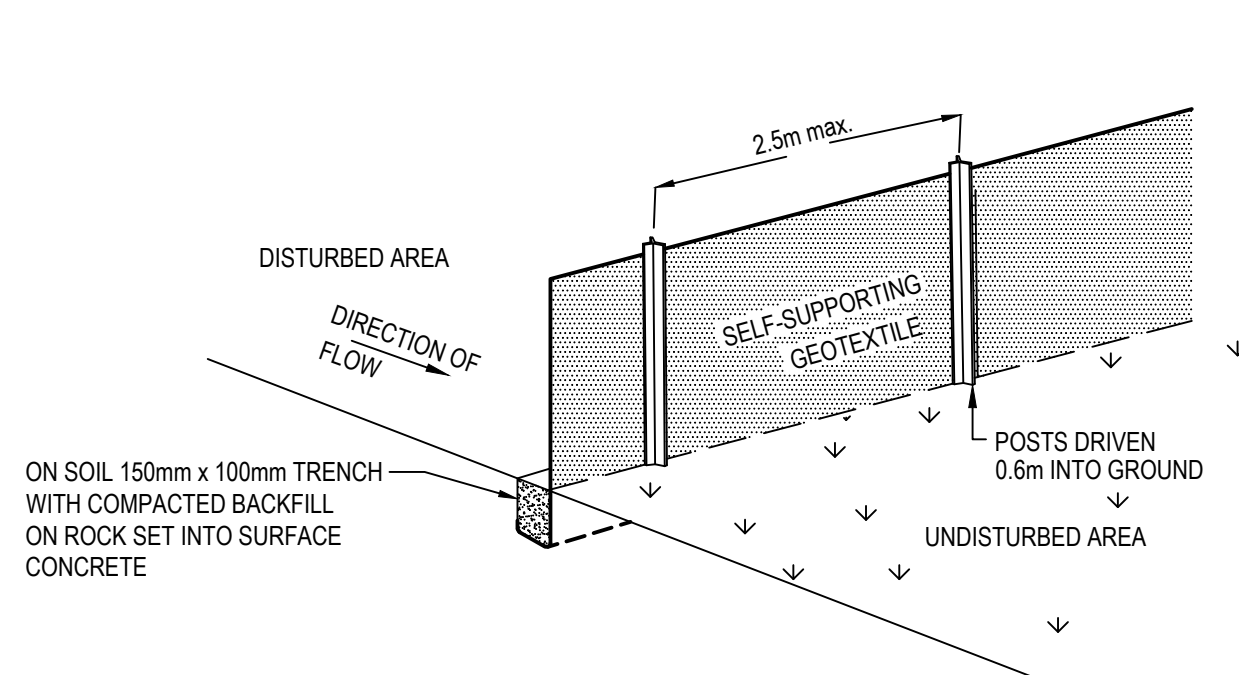
GEOTEXTILE FILTER PIT SURROUND

NTS



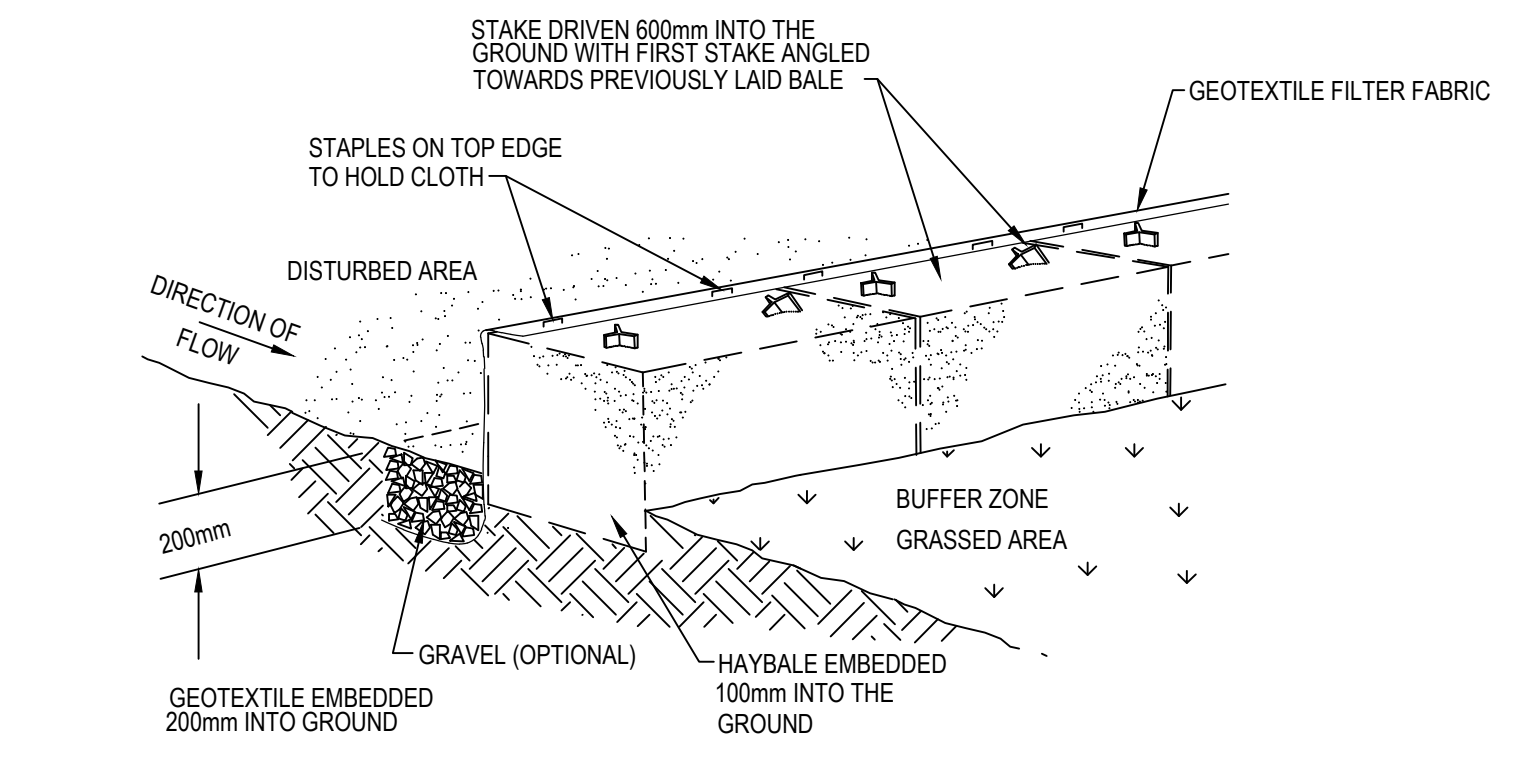
STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

NTS



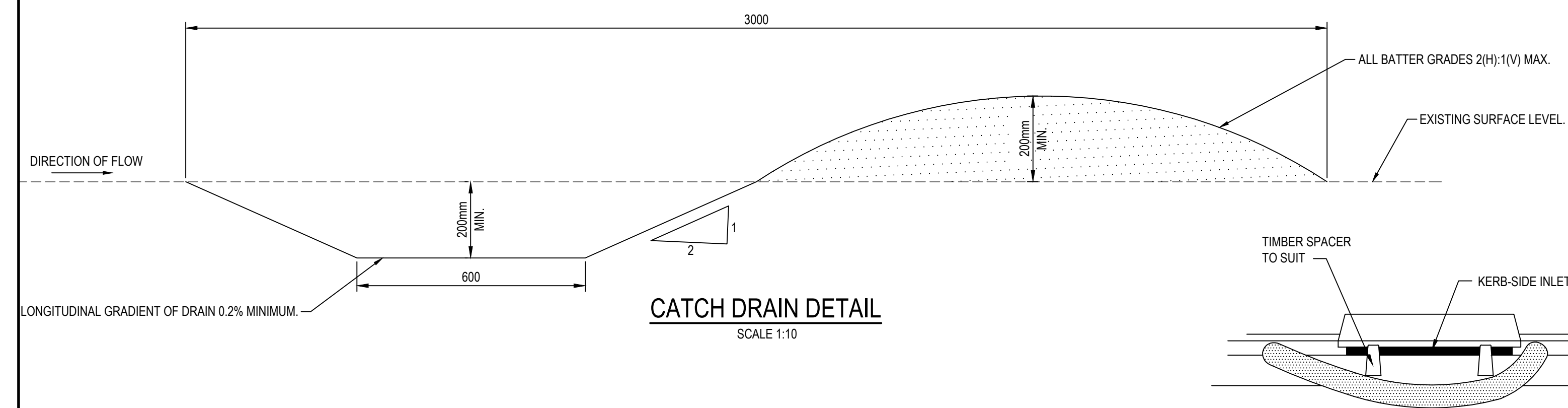
SEDIMENT FENCE (SD 6-8)

NTS



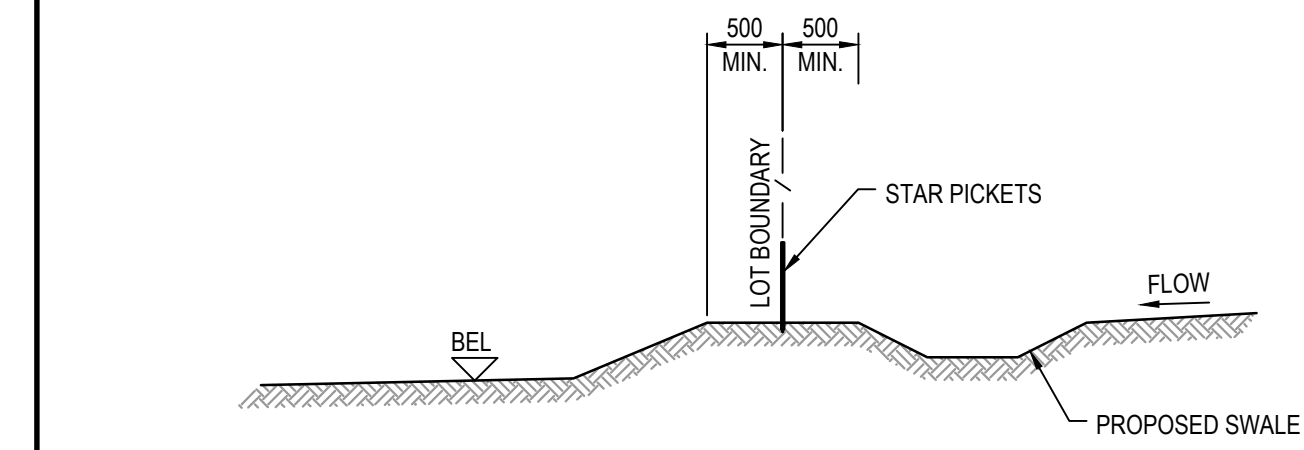
HAYBALE AND GEOTEXTILE SEDIMENT FILTER

NTS



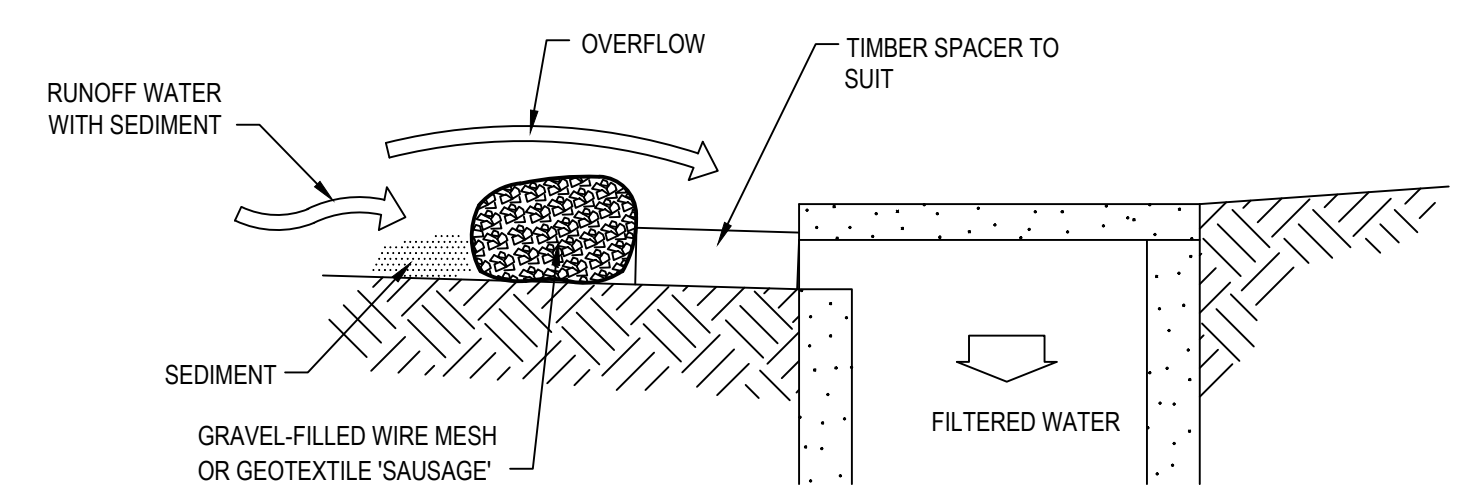
CATCH DRAIN DETAIL

SCALE 1:10



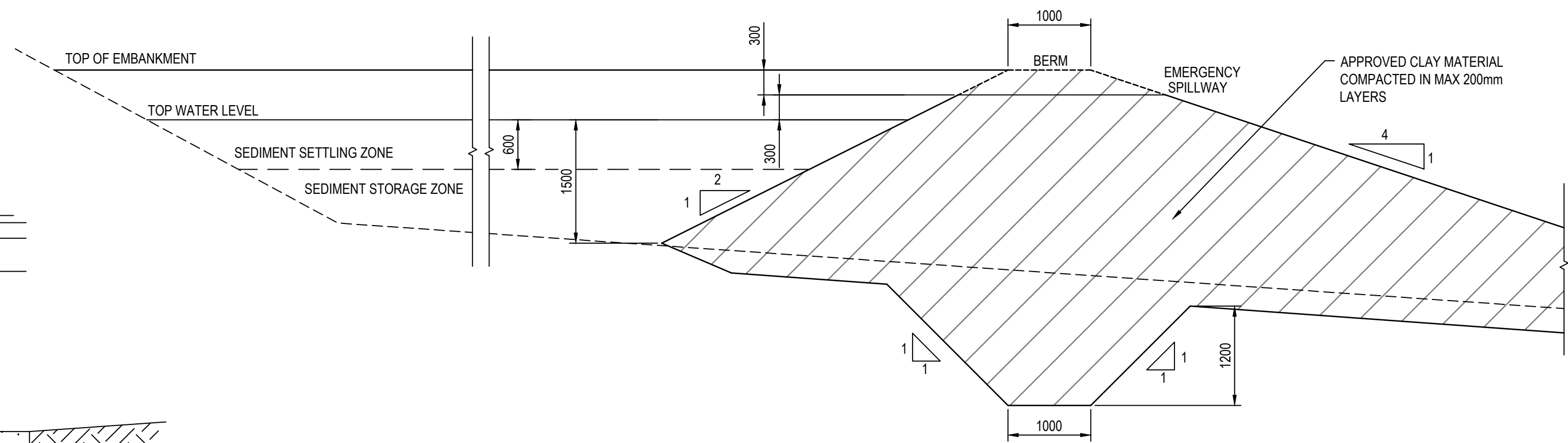
TYPICAL LOT BOUNDARY DETAIL

1:50



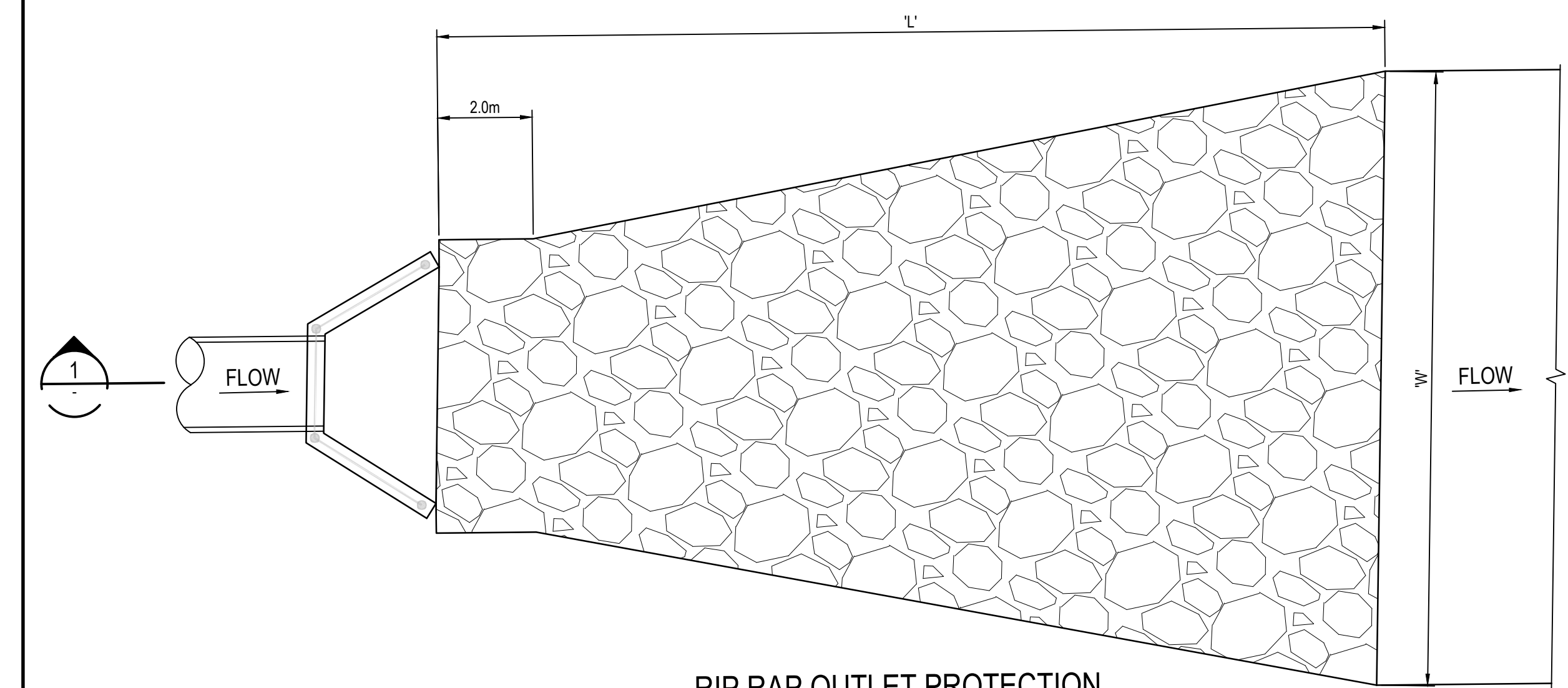
MESH AND GRAVEL INLET FILTER

NTS



SEDIMENT BASIN TYPICAL CROSS SECTION

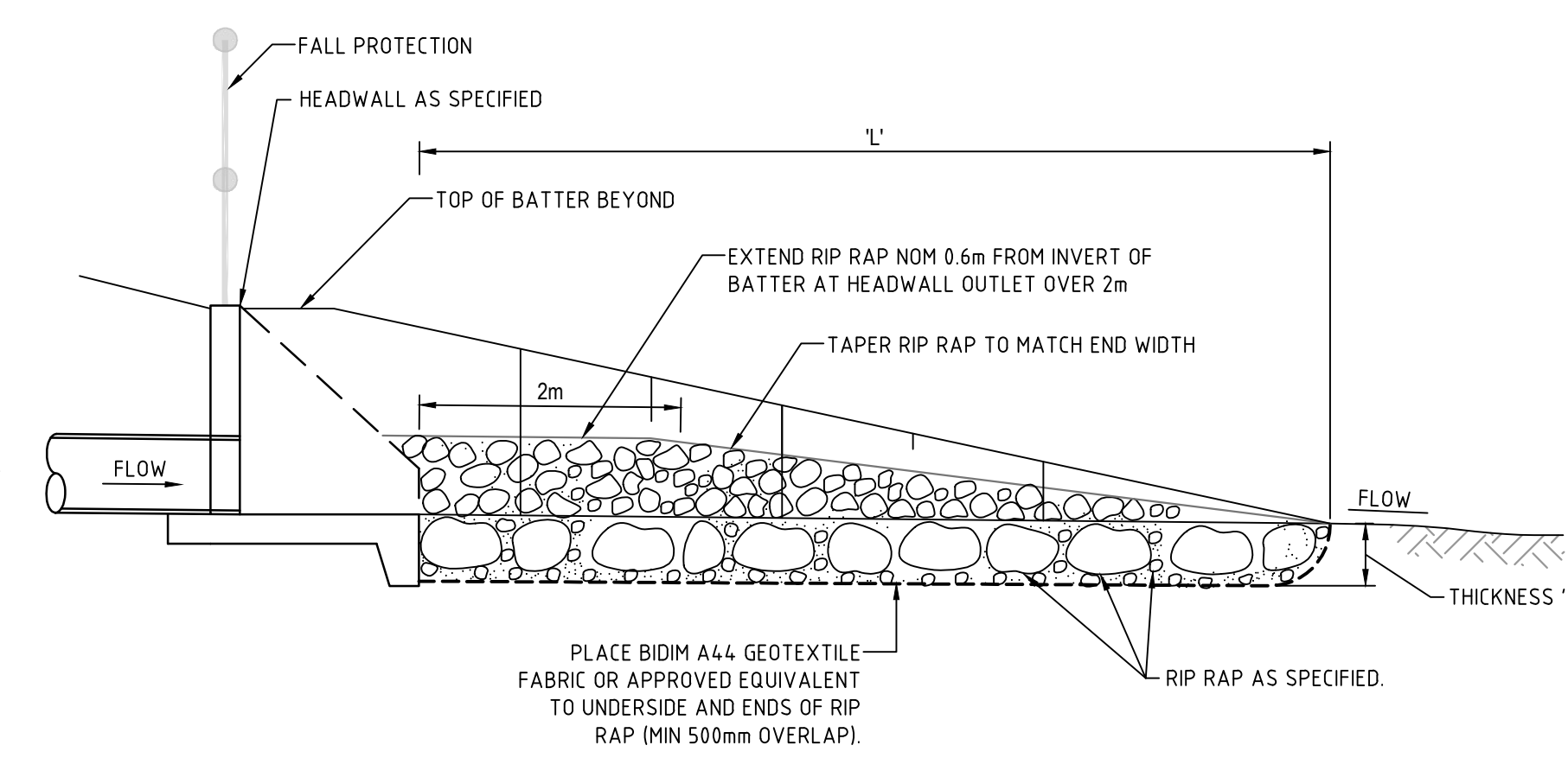
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RIP RAP OUTLET PROTECTION

DETAIL

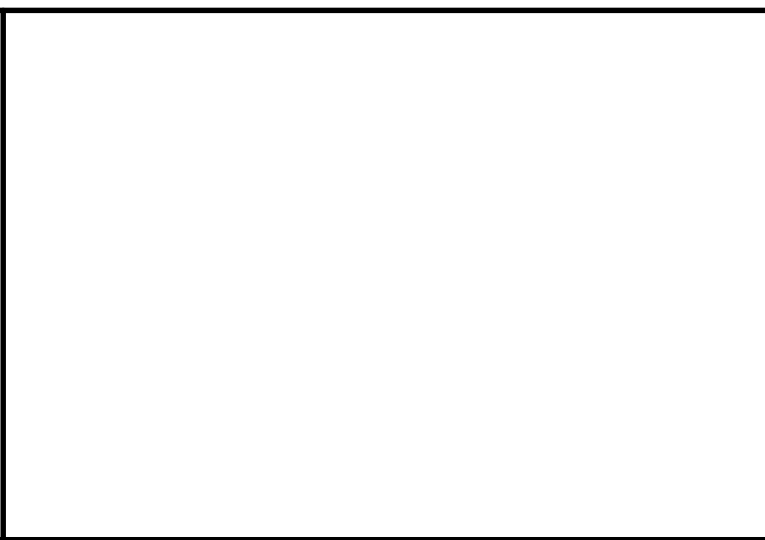
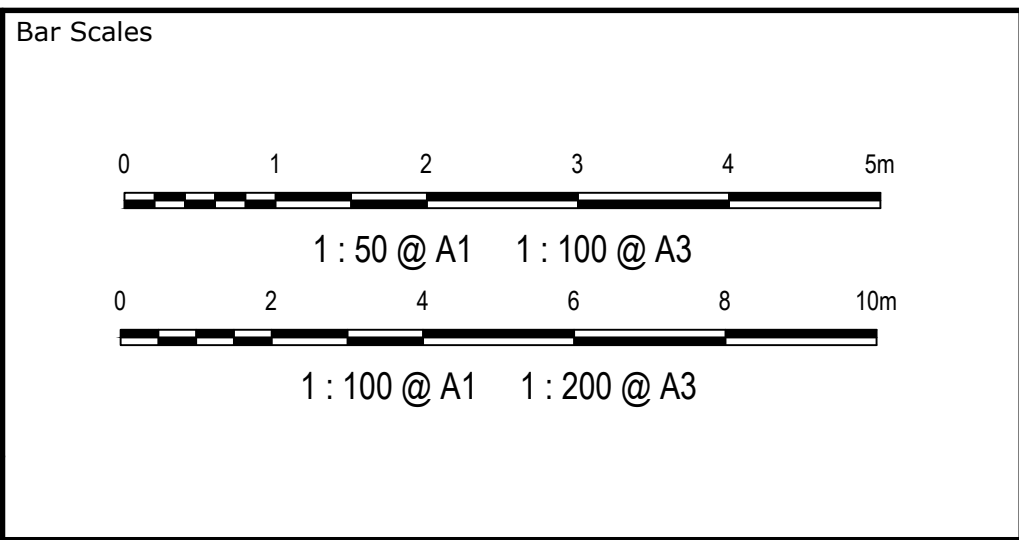
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SECTION 1

NTS

L	ISSUED FOR DA	23-01-23
K	ISSUED FOR DA	13-01-23
J	ISSUED FOR DA	07-11-22
G	ISSUED FOR DA	30-08-22
F	ISSUED FOR DA APPROVAL	29-06-22
E	ISSUED FOR DA APPROVAL	22-04-22
D	ISSUED FOR DA APPROVAL	20-04-22
C	ISSUED FOR DA APPROVAL	12-04-22
B	ISSUED FOR APPROVAL	04-11-21
Issue	Description	Date



Client  
TURNER ROAD INDUSTRIAL PTY LTD

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Scales	AS SHOWN
Grid	GDA 2020
Height Datum	AHD
Drawn	JH
Designed	JH
Checked	ALa
Approved	
GDA2020	

Project  
43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE

Title  
SEDIMENT AND EROSION  
DETAILS

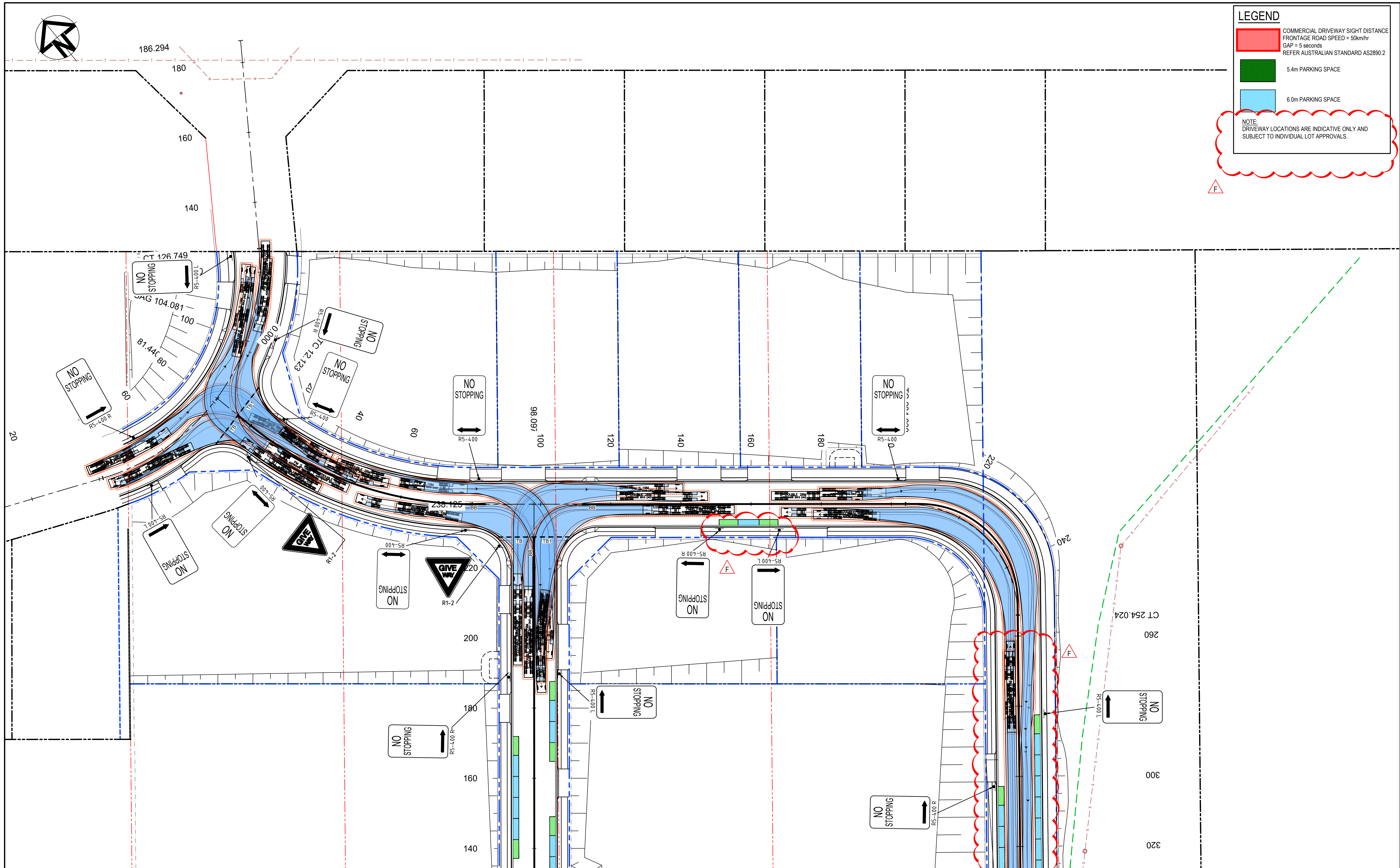
Civil Engineers and Project Managers

**at&l**

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North Sydney NSW 2060  
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www.atl.net.au  
info@atl.net.au

Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C803	Issue L





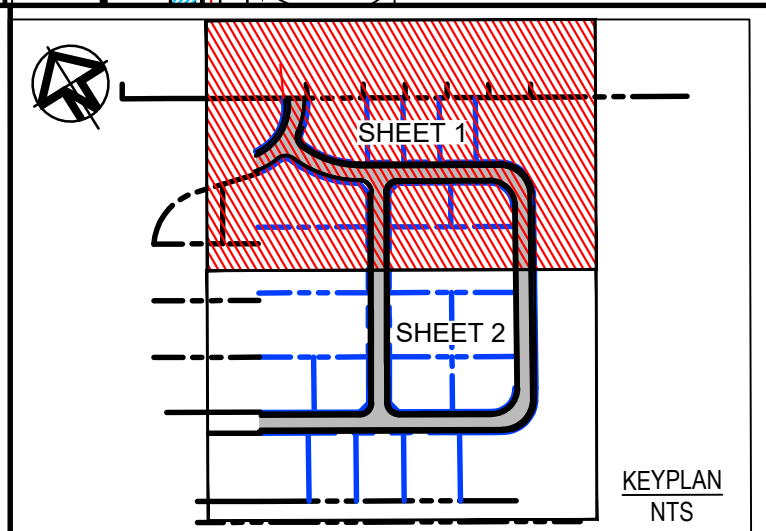
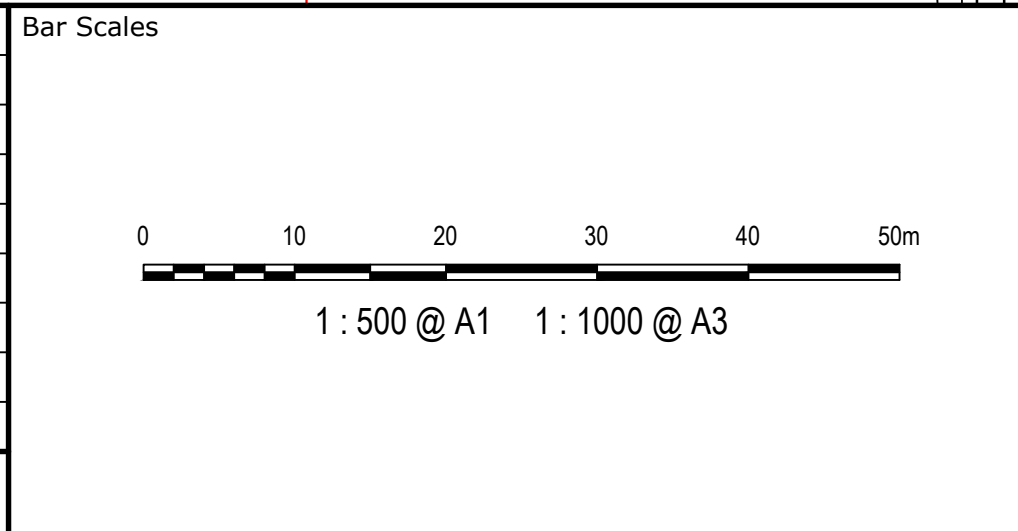
LEGEND

- COMMERCIAL DRIVEWAY SIGHT DISTANCE  
FRONTAGE ROAD SPEED = 50km/hr  
GAP = 5 seconds  
REFER AUSTRALIAN STANDARD AS2890.2
- 5.4m PARKING SPACE
- 6.0m PARKING SPACE

NOTE:  
DRIVEWAY LOCATIONS ARE INDICATIVE ONLY AND  
SUBJECT TO INDIVIDUAL LOT APPROVALS.

F

Issue	Description	Date
F	ISSUED FOR DA	23-01-23
E	ISSUED FOR DA	13-01-23
D	ISSUED FOR DA	07-11-22
C	ISSUED FOR DA	23-09-22
B	ISSUED FOR DA	30-08-22
A	ISSUED FOR APPROVAL	10-08-22



Client  
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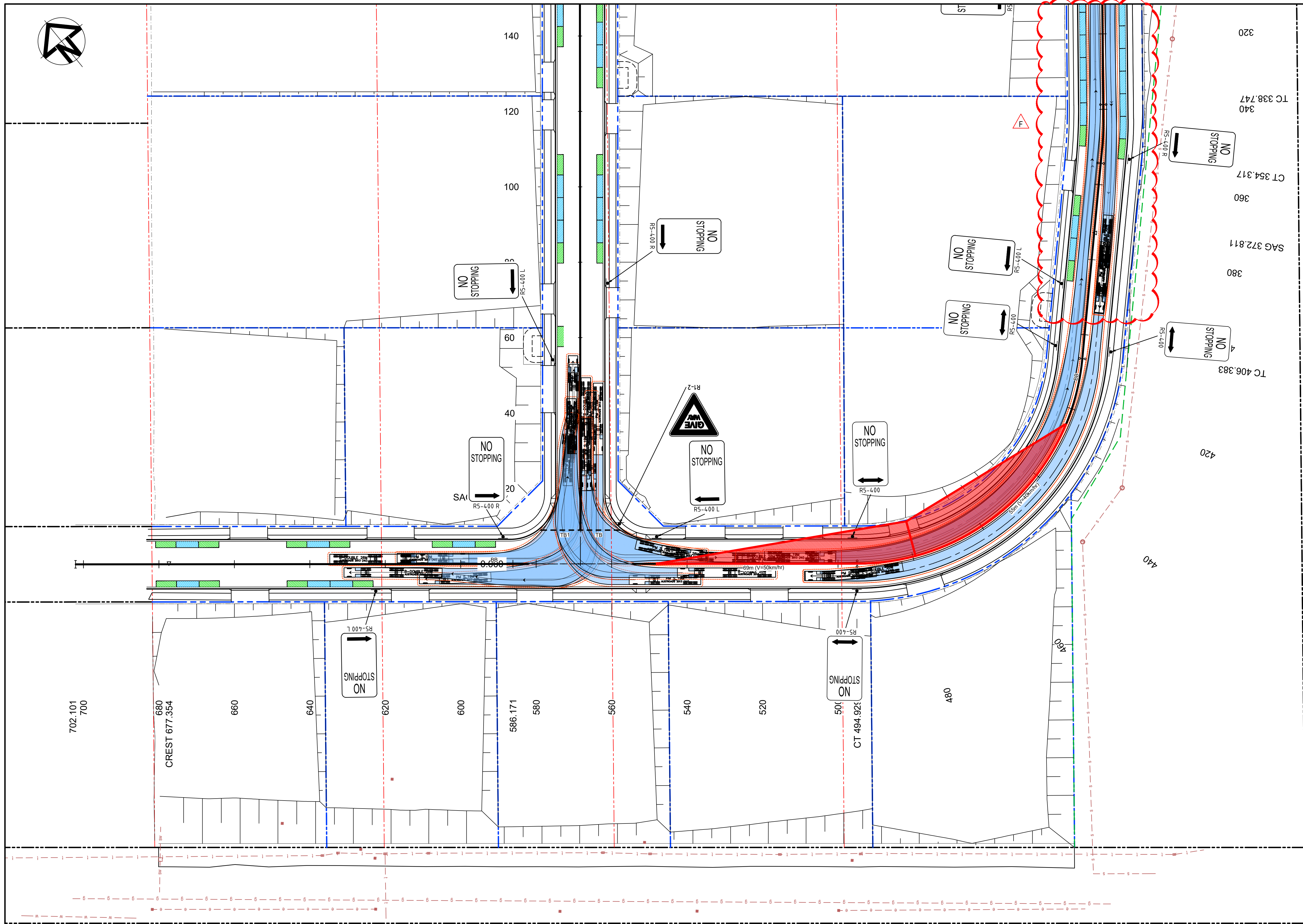
Scales	1:500
Grid	GDA 2020
Height Datum	AHD
Drawn	JH
Designed	JH
Checked	ALa
Approved	

Project  
43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE

Title  
SIGNAGE & LINEMARKING  
PLAN  
SHEET 1

Civil Engineers and Project Managers		
<b>at&amp;l</b>		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	ISSUED FOR DA NOT FOR CONSTRUCTION	A1
Project - Drawing No.	21-889-C901	Issue F





**LEGEND**

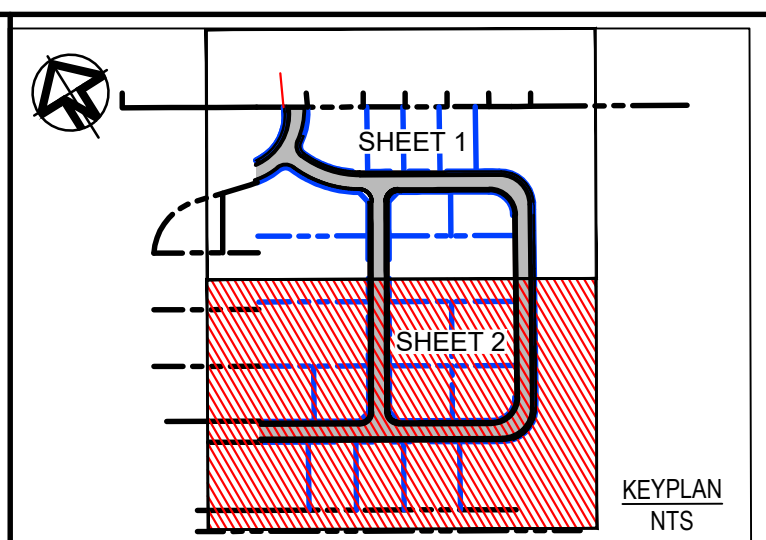
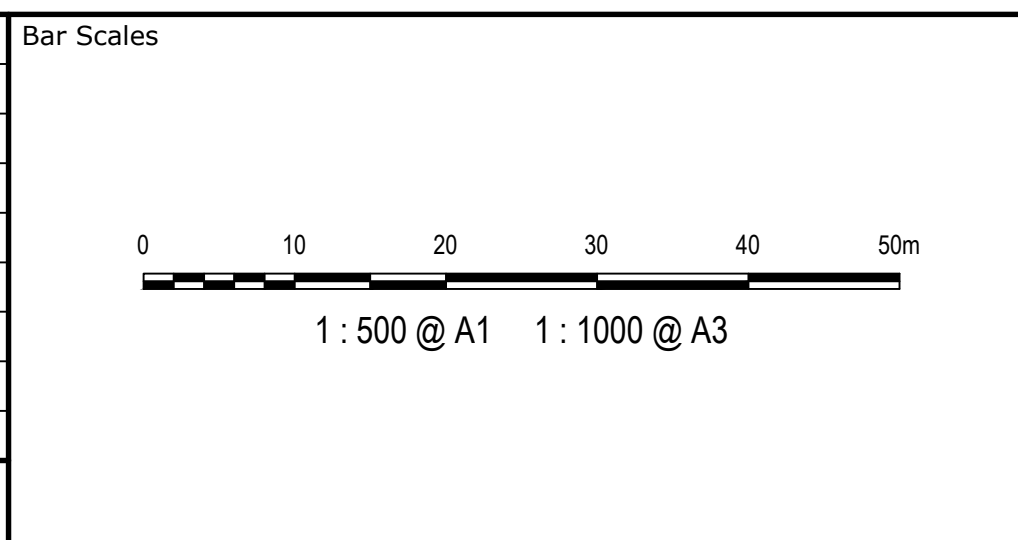
COMMERCIAL DRIVEWAY SIGHT DISTANCE  
FRONTAGE ROAD SPEED = 50km/hr  
GAP = 5 seconds  
REFER AUSTRALIAN STANDARD AS2890.2

5.4m PARKING SPACE

6.0m PARKING SPACE

NOTE:  
DRIVEWAY LOCATIONS ARE INDICATIVE ONLY AND  
SUBJECT TO INDIVIDUAL LOT APPROVALS.

Issue	Description	Date
F	ISSUED FOR DA	23-01-23
E	ISSUED FOR DA	13-01-23
D	ISSUED FOR DA	07-11-22
C	ISSUED FOR DA	23-09-22
B	ISSUED FOR DA	30-08-22
A	ISSUED FOR APPROVAL	10-08-22



Client  
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FOR ANY OTHER PURPOSE OTHER  
THAN THAT ORIGINALLY INTENDED  
WITHOUT WRITTEN PERMISSION  
OF AT&L

Scales 1:500	Drawn JH
Grid GDA 2020	Designed JH
Height Datum AHD	Checked ALa
Approved	

Project  
43-61 TURNER ROAD  
GREGORY HILLS  
TURNER ROAD  
INDUSTRIAL ESTATE

Signage & Linemarking  
PLAN  
SHEET 2

Civil Engineers and Project Managers

**at&l**

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North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

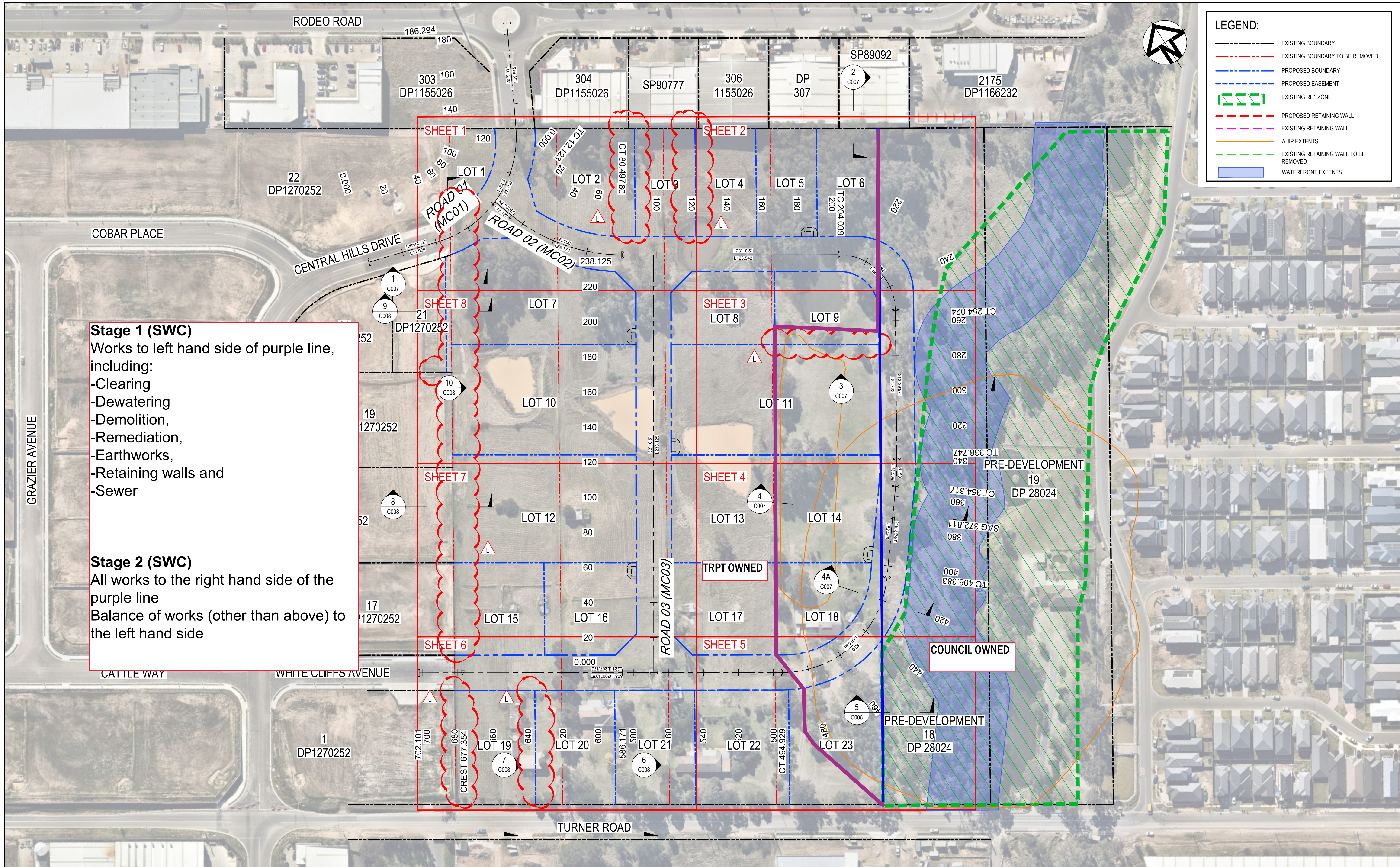
Status  
ISSUED FOR DA  
NOT FOR CONSTRUCTION

Project - Drawing No.  
21-889-C902

Issue  
F

A1





**Stage 1 (SWC)**  
Works to left hand side of purple line, including:  
-Clearing  
-Dewatering  
-Demolition,  
-Remediation,  
-Earthworks,  
-Retaining walls and  
-Sewer

**Stage 2 (SWC)**  
All works to the right hand side of the purple line  
Balance of works (other than above) to the left hand side

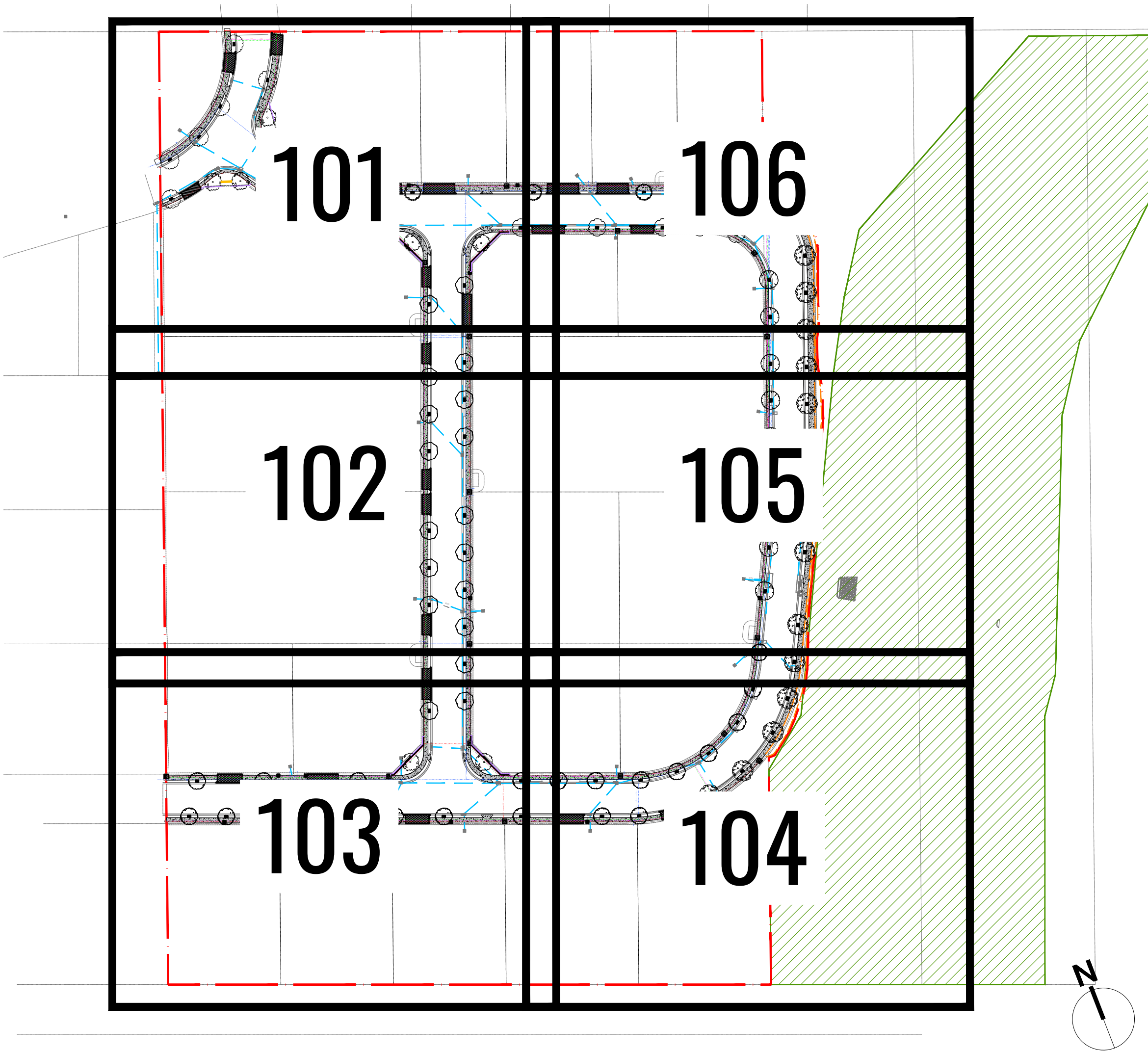
M	ISSUED FOR DA	23-01-23	<div>Bar Scales</div> 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# TURNER ROAD INDUSTRIAL ESTATE, GREGORY HILLS

## STREETSCAPE LANDSCAPE CC PACKAGE

### MASTER PLAN



#### LEGEND



SHEET LAYOUTS



EXTENT OF WORKS

NOTE:  
ENSURE ALL TREE PITS HAVE POSITIVE DRAINAGE TO THE STORMWATER SYSTEM. CONTRACTOR TO INSTALL AGG. LINE DRAINAGE AS INDICATED ON DETAIL 01B ON DRAWING LCC-601

### PLANTING SCHEDULE

STREET PLANTING SCHEDULE							
Symbol	Botanical Name	Common Name	Height (M)	Width (M)	Pot Size	Spacing	Quantity
STREET TREES							
T1	<i>Angophora hispida</i>	Dwarf Apple	7	5	75LT	AS SHOWN	16
T2	<i>Corymbia maculata</i>	Spotted Gum	30	15	75LT	AS SHOWN	18
T3	<i>Cupaniopsis anacardioides</i>	Tuckeroo	15	15	75LT	AS SHOWN	22
T4	<i>Eucalyptus amplifolia</i>	Cabbage Gum	20	8	75LT	AS SHOWN	9
T5	<i>Eucalyptus moluccana</i>	Grey Box	30	10	75LT	AS SHOWN	10
T6	<i>Melaleuca decora</i>	Feather Honeymyrtle	6	5	75LT	AS SHOWN	8
T7	<i>Tristaniopsis laurina</i>	Water Gum	10	5	75LT	AS SHOWN	8
T8	<i>Waterhousea floribunda</i>	Weeping Lilly Pilly	10	5	75LT	AS SHOWN	6
TOTAL							97

GENERAL PLANTING TO ROAD SPLAYS							
Symbol	Botanical Name	Common Name	Height	Width	Pot Size	Spacing	Quantity
SHRUBS							
ACM smi	<i>Acmena smithii</i> 'Hedgemaster'	Dwarf Lilly Pilly	1m*	1m	200mm	600mm ctrs	150
WES fru	<i>Westringia fruticosa</i> 'Aussie Box'	Coastal Rosemary	0.80m	0.95m	200mm	500mm ctrs	59
GROUNDCOVERS							
BRA mul	<i>Brachyscome multifida</i> 'Break O Day'	Native Daisy	0.25m	0.5m	140mm	3/m2	256
DIA rev	<i>Dianella revoluta</i> 'Little Rev'	Blue-Flax Lily	0.4m	0.4m	140mm	4/m2	246
MYO par	<i>Myoporum parvifolium</i> 'Yareena'	Creeping Boobialla	0.1m	1m	140mm	3/m2	221
PAT gla	<i>Patersonia glabrata</i>	Native Iris	0.8m	0.4m	140mm	4/m2	232
* To be clipped to a minimum height of 1.0m							

EMBANKMENT PLANTING SCHEDULE					
Code	Botanical Name	Common Name	Mature Height	Pot Size	Quantity
GROUNDCOVERS 5 per m2					
BRU aus	<i>Brunoniella australis</i>	Blue Trumpet	0.3m	Tubestock	140
DIA lon	<i>Dianella longifolia</i>	Pale Flax-Lily	1.5m	Tubestock	140
DIC mic	<i>Dichelachne micrantha</i>	Short Hair Plume Grass	0.5m	Tubestock	140
DIC ren	<i>Dichondra repens</i>	Kidney Weed	0.3m	Tubestock	140
ECH ova	<i>Echinopogon ovatus</i>	Rough-Bearded Grass	0.6m	Tubestock	140
IMP cyl	<i>Imperata cylindrica</i>	Cogon Grass	0.6-3m	Tubestock	140
PLE par	<i>Plectranthus parviflorus</i>	Spur Flower	0.4m	Tubestock	140
POA lab	<i>Poa labillardieri</i>	Tussock Grass	0.5-1m	Tubestock	140
PRA pur	<i>Pratia purpurascens</i>	Trailing Pratia	1.5m	Tubestock	140
RYT rac	<i>Rytidosperma racemosum</i>	Wallaby Grass	0.6m	Tubestock	140
LOM lon	<i>Lomandra longifolia</i>	Mat Rush	0.4-1m	Tubestock	140
WAH gra	<i>Wahlenbergia gracilis</i>	Australian Bluebell	0.8m	Tubestock	140

### DRAWING LIST

DRAWING NO.	REV	DRAWING TITLE	SCALE
220513_LCC-000	3	COVER SHEET	1:1500 @ A1
220513_LCC-001	3	STREETSCAPE MASTERPLAN	1:700 @ A1
220513_LCC-101	3	STREETSCAPE PLAN - SHEET 1	1:250 @ A1
220513_LCC-102	3	STREETSCAPE PLAN - SHEET 2	1:250 @ A1
220513_LCC-103	3	STREETSCAPE PLAN - SHEET 3	1:250 @ A1
220513_LCC-104	3	STREETSCAPE PLAN - SHEET 4	1:250 @ A1
220513_LCC-105	3	STREETSCAPE PLAN - SHEET 5	1:250 @ A1
220513_LCC-106	3	STREETSCAPE PLAN - SHEET 6	1:250 @ A1
220513_LCC-601	3	LANDSCAPE DETAILS	AS SHOWN

3	01.09.22	100% ISSUE	PT
2	09.08.22	90% ISSUE	PT
1	28.07.22	75% ISSUE	PT
REVISION	DATE	DESCRIPTION	BY
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NOTE: VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DRAWINGS. DRAWINGS MADE TO LARGER SCALES AND THOSE SHOWING PARTICULAR PARTS OF THE WORKS SHALL TAKE PRECEDENCE OVER DRAWINGS MADE TO SMALLER SCALE AND THOSE FOR GENERAL PURPOSES. ALL WORK IS TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND OTHER CODES AS APPLICABLE, TOGETHER WITH OTHER AUTHORITIES' REQUIREMENTS AND REGULATIONS. THIS DRAWING AND DESIGN IS SUBJECT TO COPYRIGHT AND MAY NOT BE REPRODUCED WITHOUT PRIOR WRITTEN CONSENT. IF IN DOUBT, ASK.			
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GEOSCAPES Pty Ltd Suite 215, 284 Victoria Avenue Chatswood, NSW 2067, Australia ACN: 620 205 781 ABN: 84 620 205 781		RLA NO # 5868	
PROJECT TURNER RD INDUSTRIAL ESTATE 43-61 TURNER RD, GREGORY HILLS, NSW 2510		STATUS CC APPROVAL	
CLIENT Turner Road Industrial Pty Ltd			
TITLE COVER SHEET			
SCALE 1:1500 @A1	DATE SEP 2022	DRAWN PT	CHECKED BG
JOB NO 220513	DRAWING NO LCC-000	REV 3	





TURF

TIMBER TREE SURROUND WITH MULCH  
(REFER TO DETAIL 01A & 01B ON LCC-601)

FOOTPATH TO ENGINEERS DETAILS

STORMWATER DRAINAGE LINE

KERB INLET PIT TO ENGINEERS DETAILS

PROPOSED POTABLE WATER

PROPOSED TELECOMMUNICATIONS LINE

PROPOSED GAS LINE

PROPOSED ELECTRICITY LINE

TIMBER EDGE

PROPOSED LIGHTING COLUMN  
(REFER TO ELECTRICAL ENGINEERS PLANS)

PROPOSED ELECTRICAL TURRET  
(REFER TO ELECTRICAL ENGINEERS PLANS)

ENTRY SIGN

LEGEND

- 
- EXTENT OF LANDSCAPE WORKS
- ANGOPHORA HISPIDA
- CORYMBIA MACULATA
- CUPANIOPSIS ANACARDIOIDES
- EUCALYPTUS AMPLIFOLIA
- EUCALYPTUS MOLUCCANA
- MELALEUCA DECORA
- TRISTANIOPSIS LAURINA
- WATERHOUSEA FLORIBUNDA
- PROPOSED SHRUB PLANTING
- PROPOSED GROUNDCOVER PLANTING
- PROPOSED EMBANKMENT PLANTING.  
REFER TO DETAIL 03 ON LCC-601  
FOR TYPICAL DETAIL
- RE1 ZONE
- INDICATIVE DRIVEWAY LOCATIONS  
(WORKS BY OTHERS)

**NOTES**  
**GENERAL NOTES**  
ALL STREET TREES TO BE PLANTED AS SHOWN ON LANDSCAPE PLANS. DRIVEWAY LOCATIONS ARE SUBJECT TO CIVIL WORKS AND MAY CHANGE DURING CONSTRUCTION.  
**SETOUTS**  
ALL SETOUT TO BE VERIFIED ON-SITE BY SUPERINTENDANT PRIOR TO COMMENCEMENT OF WORKS. FINAL POSITION TO BE APPROVED ON SITE BY LANDSCAPE ARCHITECT.  
**SERVICES**  
VERIFY LOCATIONS OF SERVICE LINES PRIOR TO COMMENCEMENT OF WORKS AND INFORM THE SUPERINTENDANT OF ANY CONFLICTS.  
**PLANTING**  
REFER LANDSCAPE DETAILS, SPECIFICATION AND PLANTING SCHEDULES  
**TURFING**  
ALL TURF TO BE KIKUYU  
**SURVEY**  
DRAWINGS ARE BASED ON SURVEY DOCUMENTATION PROVIDED BY THE PROJECT ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND LEVELS ON SITE PRIOR TO COMMENCEMENT OF BUILDING WORKS. ANY DISCREPANCIES SHALL BE REFERRED TO HEAD CONTRACTOR FOR DIRECTION.

**IMPORTANT:**  
NO ORGANIC MATTER TO BE PLACED BELOW 300MM OF SOIL PROFILE. GOOD DRAINAGE TO BASE OF TREE PITS IS ESSENTIAL.

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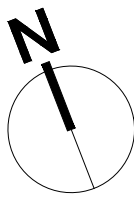
**GEOSCAPES**  
LANDSCAPE ARCHITECTS

GEOSCAPES Pty Ltd  
Suite 215, 284 Victoria Avenue  
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E. admin@geoscapes.com.au  
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RLA NO # 5868

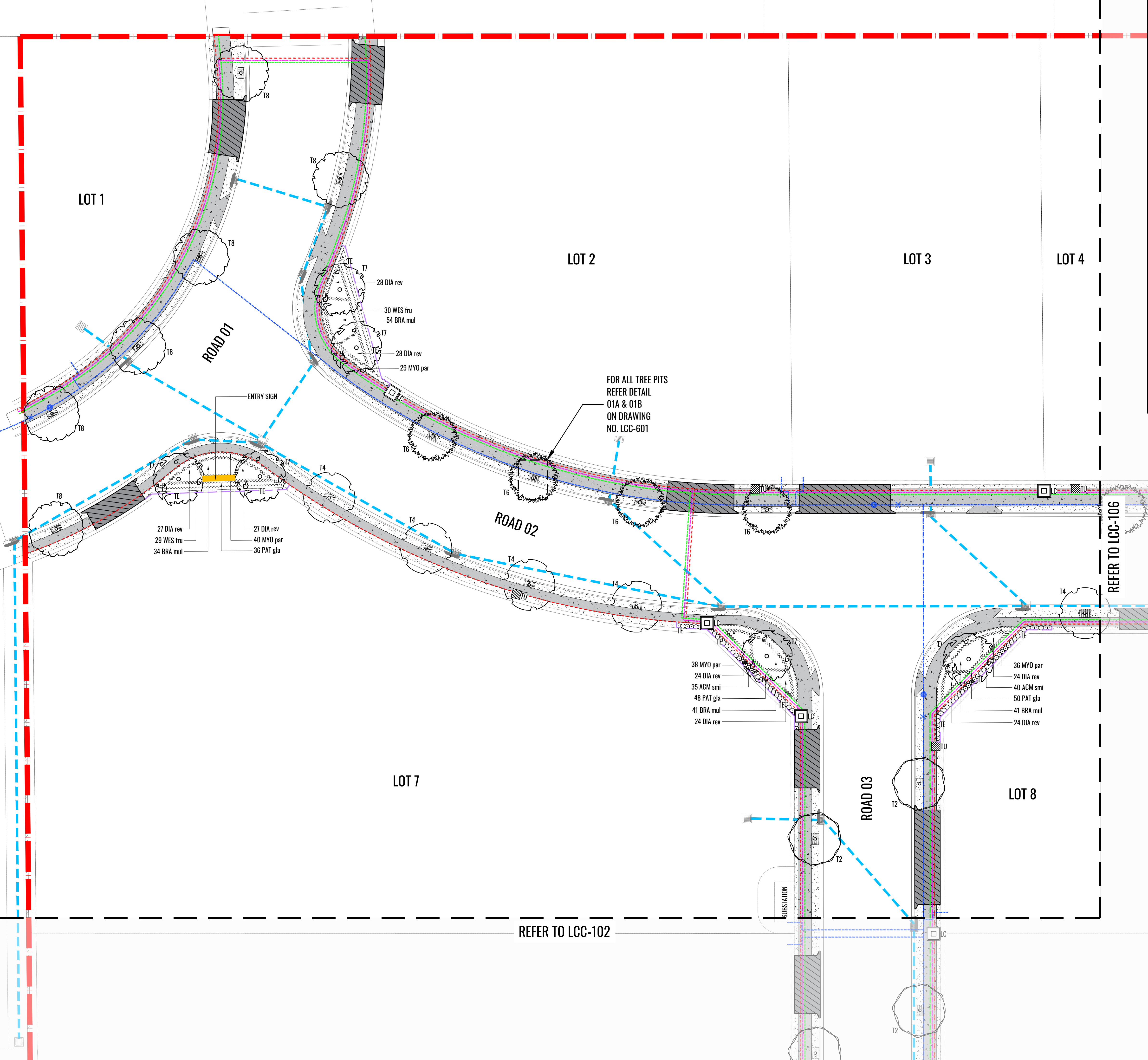
PROJECT	STATUS
TURNER RD INDUSTRIAL ESTATE 43-61 TURNER RD, GREGORY HILLS, NSW 2570	CC APPROVAL

CLIENT
Turner Road Industrial Pty Ltd
TITLE
STREETSCAPE MASTERPLAN

SCALE	DATE	DRAWN	CHECKED
1:700 @A1	SEP 2022	PT	BG
JOB NO	DRAWING NO	REV	
220513	LCC-001	3	







PROPOSED EMBANKMENT PLANTING. REFER TO DETAIL 03 ON LCC-601 FOR TYPICAL DETAIL.

RE1 ZONE

INDICATIVE DRIVEWAY LOCATIONS (WORKS BY OTHERS)

TURF

TIMBER TREE SURROUND WITH MULCH (REFER TO DETAIL 01A & 01B ON LCC-601)

FOOTPATH TO ENGINEERS DETAILS

STORMWATER DRAINAGE LINE

KERB INLET PIT TO ENGINEERS DETAILS

PROPOSED POTABLE WATER

PROPOSED TELECOMMUNICATIONS LINE

PROPOSED GAS LINE

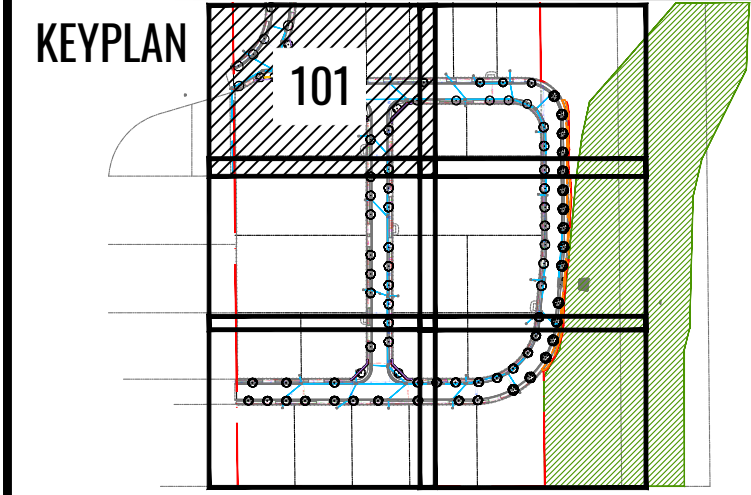
PROPOSED ELECTRICITY LINE

TIMBER EDGE

PROPOSED LIGHTING COLUMN (REFER TO ELECTRICAL ENGINEERS PLANS)

PROPOSED ELECTRICAL TURRET (REFER TO ELECTRICAL ENGINEERS PLANS)

ENTRY SIGN



LEGEND

EXTENT OF LANDSCAPE WORKS

ANGOPHORA HISPIDA

CORYMBIA MACULATA

CUPANIOPSIS ANACARDIOIDES

EUCALYPTUS AMPLIFOLIA

EUCALYPTUS MOLUCCANA

MELALEUCA DECORA

TRISTANIOPSIS LAURINA

WATERHOUSEA FLORIBUNDA

PROPOSED SHRUB PLANTING

PROPOSED GROUNDCOVER PLANTING

NOTES

GENERAL NOTES

ALL STREET TREES TO BE PLANTED AS SHOWN ON LANDSCAPE PLANS. DRIVEWAY LOCATIONS ARE SUBJECT TO CIVIL WORKS AND MAY CHANGE DURING CONSTRUCTION.

SETOUTS

ALL SETOUT TO BE VERIFIED ON SITE BY SUPERINTENDANT PRIOR TO COMMENCEMENT OF WORKS. FINAL POSITION TO BE APPROVED ON SITE BY LANDSCAPE ARCHITECT.

SERVICES

VERIFY LOCATIONS OF SERVICE LINES PRIOR TO COMMENCEMENT OF WORKS AND INFORM THE SUPERINTENDANT IF ANY CONFLICTS.

PLANTING

REFER LANDSCAPE DETAILS, SPECIFICATION AND PLANTING SCHEDULES.

TIMING

ALL TURF TO BE KIRKBY

SURVEY

DRAWINGS ARE BASED ON SURVEY DOCUMENTATION PROVIDED BY THE PROJECT ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND LEVELS ON SITE PRIOR TO COMMENCEMENT OF BUILDING WORKS. ANY DISCREPANCIES SHALL BE REFERRED TO HEAD CONTRACTOR FOR DIRECTION.

IMPORTANT:

NO ORGANIC MATTER TO BE PLACED BELOW 300MM OF SOIL PROFILE. GOOD DRAINAGE TO BASE OF TREE PITS IS ESSENTIAL.

REVISION	DATE	DESCRIPTION	BY
3	01.09.22	100% ISSUE	PT
2	09.08.22	90% ISSUE	PT
1	28.07.22	75% ISSUE	PT

NOTE:

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ABN: 84 620 205 781

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RLA NO # 5868

PROJECT	STATUS
TURNER RD INDUSTRIAL ESTATE 43-61 TURNER RD, GREGORY HILLS, NSW 2570	CC APPROVAL

CLIENT

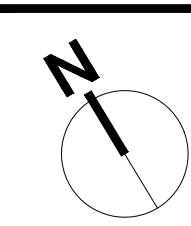
Turner Road Industrial Pty Ltd

TITLE

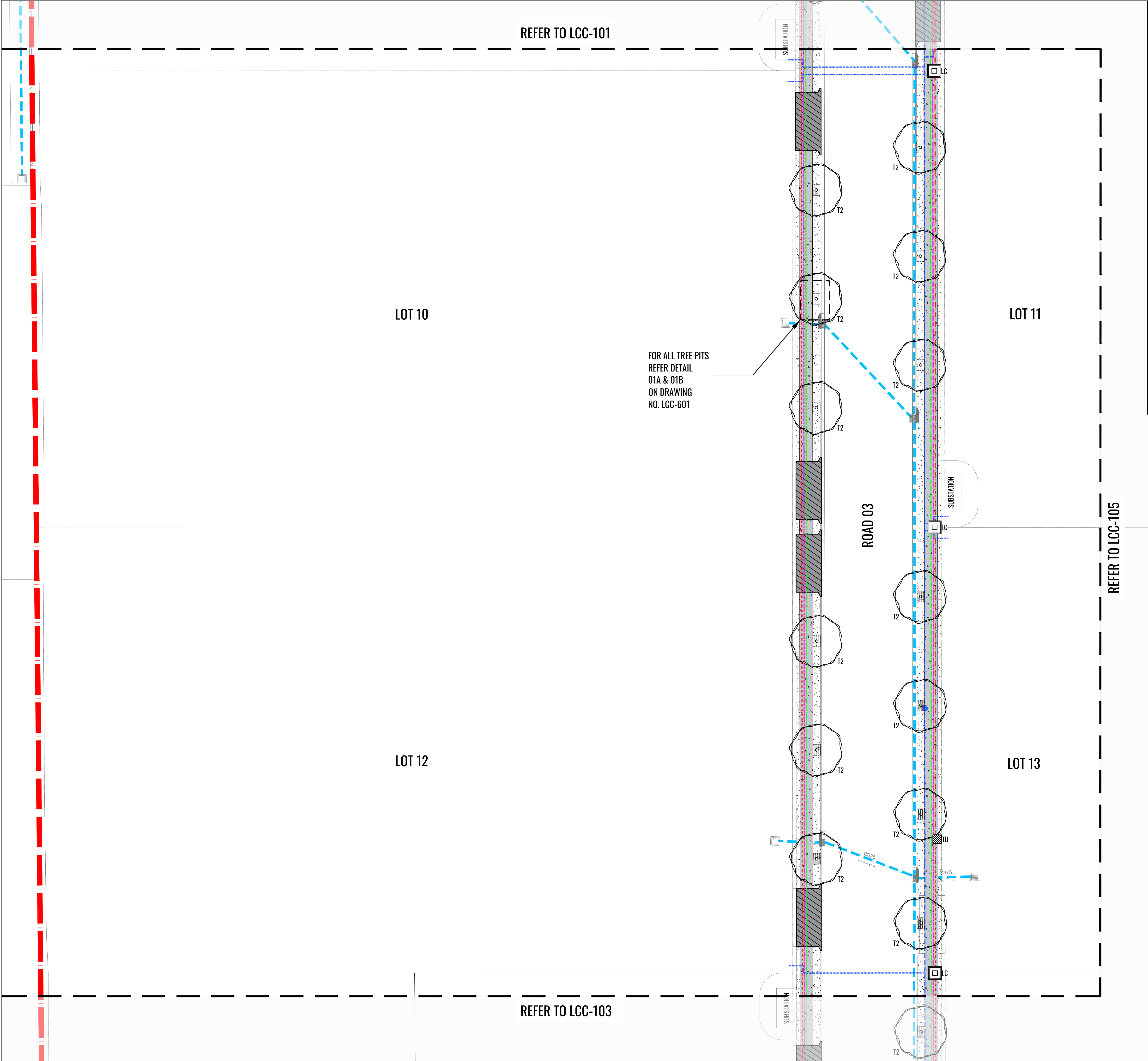
STREETSCAPE PLAN - SHEET 1

SCALE	DATE	DRAWN	CHECKED
1:250 @A1	SEP 2022	PT	BG
JOB NO	DRAWING NO	REV	
220513	LCC-101	3	

NOTE: TREE TO BE POSITIONED WHEN POTABLE WATER LID LOCATIONS ARE CONFIRMED







PROPOSED EMBANKMENT PLANTING.  
REFER TO DETAIL 03 ON LCC-601  
FOR TYPICAL DETAIL.

RE1 ZONE

INDICATIVE DRIVEWAY LOCATIONS  
(WORKS BY OTHERS)

TURF

TIMBER TREE SURROUND WITH MULCH  
(REFER TO DETAIL 01A & 01B ON LCC-601)

FOOTPATH TO ENGINEERS DETAILS

STORMWATER DRAINAGE LINE

KERB INLET PIT TO ENGINEERS DETAILS

PROPOSED POTABLE WATER

PROPOSED TELECOMMUNICATIONS LINE

PROPOSED GAS LINE

PROPOSED ELECTRICITY LINE

TIMBER EDGE

PROPOSED LIGHTING COLUMN  
(REFER TO ELECTRICAL ENGINEERS PLANS)

PROPOSED ELECTRICAL TURRET  
(REFER TO ELECTRICAL ENGINEERS PLANS)

ENTRY SIGN

KEYPLAN

LEGEND

EXTENT OF LANDSCAPE WORKS

ANGOPHORA HISPIDA

CORYMBIA MACULATA

CUPANIOPSIS ANACARDIOIDES

EUCALYPTUS AMPLIFOLIA

EUCALYPTUS MOLUCCANA

MELALEUCA DECORA

TRISTANIOPSIS LAURINA

WATERHOUSEA FLORIBUNDA

PROPOSED SHRUB PLANTING

PROPOSED GROUNDCOVER PLANTING

NOTES

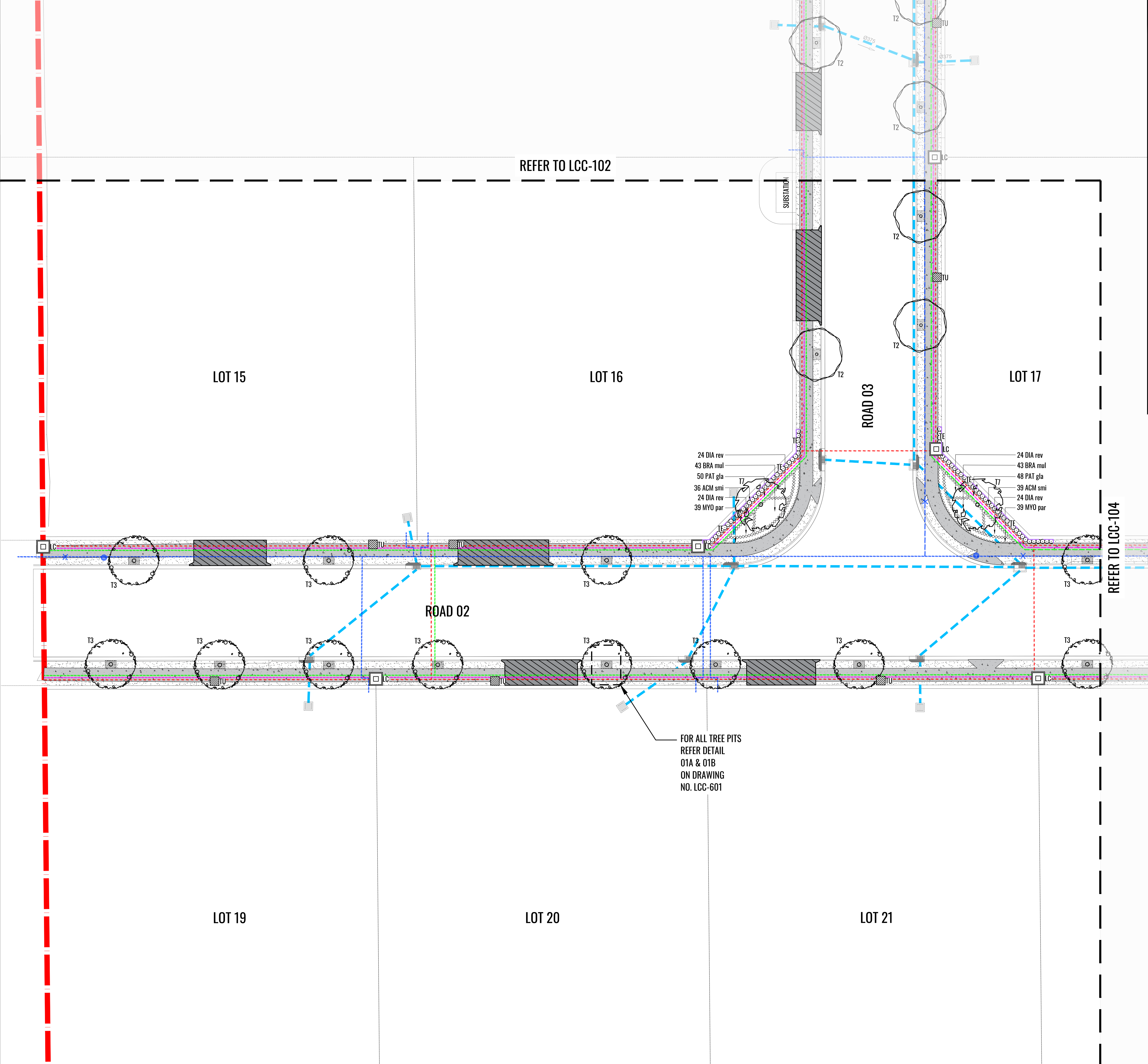
GENERAL NOTES  
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SETOUTS  
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SERVICES  
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PLANTING  
REFER LANDSCAPE DETAILS, SPECIFICATION AND PLANTING SCHEDULES  
TIMING  
ALL TURF TO BE KIRKBY  
SURVEY  
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IMPORTANT:  
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3	01.09.22	100% ISSUE	PT
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1	28.07.22	75% ISSUE	PT
REVISION	DATE	DESCRIPTION	BY
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<div>PROJECT</div> <div>TURNER RD INDUSTRIAL ESTATE 43-61 TURNER RD, GREGORY HILLS, NSW 2570</div>		<div>STATUS</div> <div>CC APPROVAL</div>	
<div>CLIENT</div> <div>Turner Road Industrial Pty Ltd</div>			
<div>TITLE</div> <div>STREETSCAPE PLAN - SHEET 2</div>			
SCALE	DATE	DRAWN	CHECKED
1:250 @A1	SEP 2022	PT	BG
JOB NO	DRAWING NO	REV	
220513	LCC-102	3	

NOTE: TREE TO BE POSITIONED  
WHEN POTABLE WATER LID  
LOCATIONS ARE CONFIRMED

220513 - Turner Road 03 10 2 - LCC Documentations LCC Tender CAD Print Sheet 220513\_LCC Print Sheet.dwg





PROPOSED EMBANKMENT PLANTING.  
REFER TO DETAIL 03 ON LCC-601  
FOR TYPICAL DETAIL.

RE1 ZONE

INDICATIVE DRIVEWAY LOCATIONS  
(WORKS BY OTHERS)

TURF

TIMBER TREE SURROUND WITH MULCH  
(REFER TO DETAIL 01A & 01B ON LCC-601)

FOOTPATH TO ENGINEERS DETAILS

STORMWATER DRAINAGE LINE

KERB INLET PIT TO ENGINEERS DETAILS

PROPOSED POTABLE WATER

PROPOSED TELECOMMUNICATIONS LINE

PROPOSED GAS LINE

PROPOSED ELECTRICITY LINE

TIMBER EDGE

PROPOSED LIGHTING COLUMN  
(REFER TO ELECTRICAL ENGINEERS PLANS)

PROPOSED ELECTRICAL TURRET  
(REFER TO ELECTRICAL ENGINEERS PLANS)

ENTRY SIGN

**KEYPLAN**

103

**LEGEND**

EXTENT OF LANDSCAPE WORKS

ANGOPHORA HISPIDA

CORYMBIA MACULATA

CUPANIOPSIS ANACARDIOIDES

EUCALYPTUS AMPLIFOLIA

EUCALYPTUS MOLUCCANA

MELALEUCA DECORA

TRISTANIOPSIS LAURINA

WATERHOUSEA FLORIBUNDA

PROPOSED SHRUB PLANTING

PROPOSED GROUNDCOVER PLANTING

**NOTES**

**GENERAL NOTES**  
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**SETOUTS**  
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**SERVICES**  
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**PLANTING**  
REFER LANDSCAPE DETAILS, SPECIFICATION AND PLANTING SCHEDULES.

**TURFING**  
ALL TURF TO BE KIRKBY.

**SURVEY**  
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**IMPORTANT:**  
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REVISION	DATE	DESCRIPTION	BY
3	01.09.22	100% ISSUE	PT
2	09.08.22	90% ISSUE	PT
1	28.07.22	75% ISSUE	PT

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RLA NO # 5868

PROJECT	STATUS
TURNER RD INDUSTRIAL ESTATE 43-61 TURNER RD, GREGORY HILLS, NSW 2570	CC APPROVAL

CLIENT

Turner Road Industrial Pty Ltd

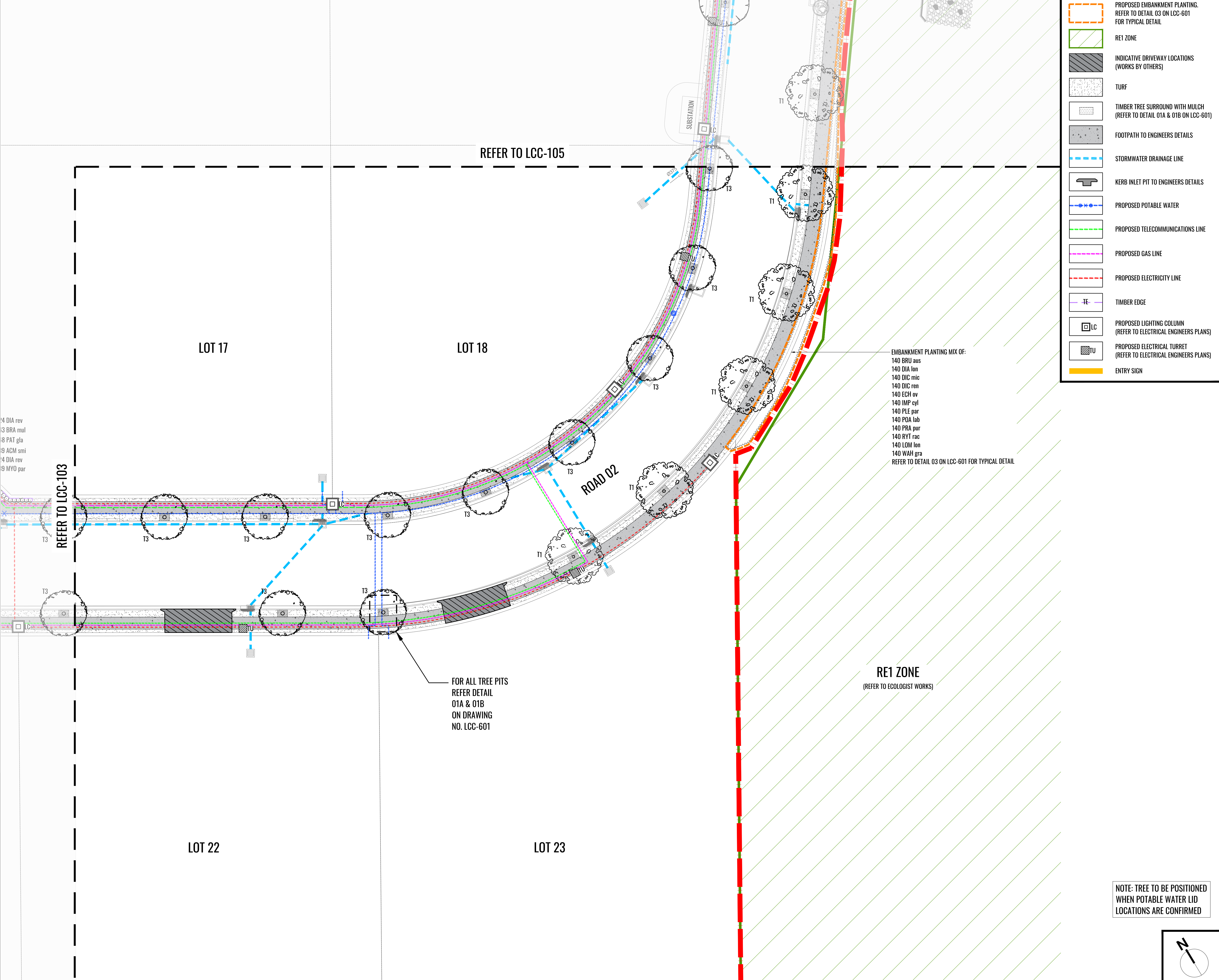
TITLE

STREETSCAPE PLAN - SHEET 3

SCALE	DATE	DRAWN	CHECKED
1:250 @A1	SEP 2022	PT	BG

JOB NO	DRAWING NO	REV
220513	LCC-103	3





PROPOSED EMBANKMENT PLANTING.  
REFER TO DETAIL 03 ON LCC-601  
FOR TYPICAL DETAIL.

RE1 ZONE

INDICATIVE DRIVEWAY LOCATIONS  
(WORKS BY OTHERS)

TURF

TIMBER TREE SURROUND WITH MULCH  
(REFER TO DETAIL 01A & 01B ON LCC-601)

FOOTPATH TO ENGINEERS DETAILS

STORMWATER DRAINAGE LINE

KERB INLET PIT TO ENGINEERS DETAILS

PROPOSED POTABLE WATER

PROPOSED TELECOMMUNICATIONS LINE

PROPOSED GAS LINE

PROPOSED ELECTRICITY LINE

TIMBER EDGE

PROPOSED LIGHTING COLUMN  
(REFER TO ELECTRICAL ENGINEERS PLANS)

PROPOSED ELECTRICAL TURRET  
(REFER TO ELECTRICAL ENGINEERS PLANS)

ENTRY SIGN

PROPOSED EMBANKMENT PLANTING.  
REFER TO DETAIL 03 ON LCC-601  
FOR TYPICAL DETAIL.

RE1 ZONE

INDICATIVE DRIVEWAY LOCATIONS  
(WORKS BY OTHERS)

TURF

TIMBER TREE SURROUND WITH MULCH  
(REFER TO DETAIL 01A & 01B ON LCC-601)

FOOTPATH TO ENGINEERS DETAILS

STORMWATER DRAINAGE LINE

KERB INLET PIT TO ENGINEERS DETAILS

PROPOSED POTABLE WATER

PROPOSED TELECOMMUNICATIONS LINE

PROPOSED GAS LINE

PROPOSED ELECTRICITY LINE

TIMBER EDGE

PROPOSED LIGHTING COLUMN  
(REFER TO ELECTRICAL ENGINEERS PLANS)

PROPOSED ELECTRICAL TURRET  
(REFER TO ELECTRICAL ENGINEERS PLANS)

ENTRY SIGN

KEYPLAN

LEGEND

EXTENT OF LANDSCAPE WORKS

ANGOPHORA HISPIDA

CORYMBIA MACULATA

CUPANIOPSIS ANACARDIOIDES

EUCALYPTUS AMPLIFOLIA

EUCALYPTUS MOLUCCANA

MELALEUCA DECORA

TRISTANIOPSIS LAURINA

WATERHOUSEA FLORIBUNDA

PROPOSED SHRUB PLANTING

PROPOSED GROUNDCOVER PLANTING

NOTES

GENERAL NOTES  
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PLANTING  
REFER LANDSCAPE DETAILS, SPECIFICATION AND PLANTING SCHEDULES  
TIMING  
ALL TURF TO BE KIRIYU  
SURVEY  
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2	09.08.22	90% ISSUE	PT		
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REVISION	DATE	DESCRIPTION	BY		
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PROJECT TURNER RD INDUSTRIAL ESTATE 43-61 TURNER RD, GREGORY HILLS, NSW 2570		STATUS CC APPROVAL			
CLIENT Turner Road Industrial Pty Ltd					
TITLE STREETSCAPE PLAN - SHEET 4					
SCALE 1:250 @A1	DATE SEP 2022	DRAWN PT	CHECKED BG		
JOB NO 220513	DRAWING NO LCC-104	REV 3			

NOTE: TREE TO BE POSITIONED  
WHEN POTABLE WATER LID  
LOCATIONS ARE CONFIRMED

1/4 DIA rev  
1/3 BRA mul  
1/8 PAT gla  
1/9 ACM smi  
1/4 DIA rev  
1/9 MYO par



REFER TO LCC-102

REFER TO LCC-106

LOT 11

LOT 13

LOT 14

REFER TO LCC-104

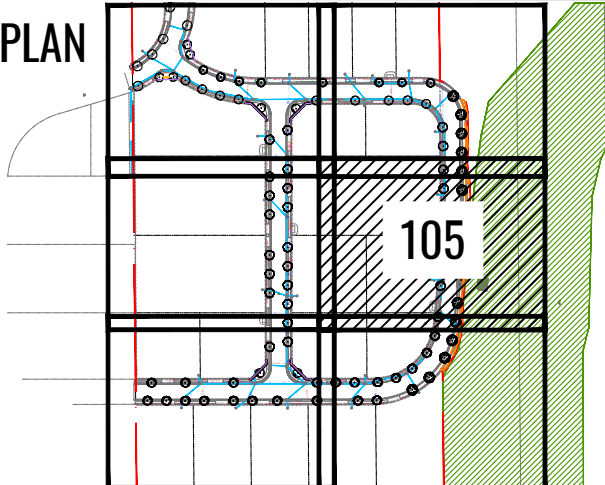
FOR ALL TREE PITS  
REFER DETAIL  
01A & 01B  
ON DRAWING  
NO. LCC-601

ROAD 02

RE1 ZONE  
(REFER TO ECOLOGIST WORKS)

- PROPOSED EMBANKMENT PLANTING.  
REFER TO DETAIL 03 ON LCC-601  
FOR TYPICAL DETAIL.
- RE1 ZONE
- INDICATIVE DRIVEWAY LOCATIONS  
(WORKS BY OTHERS)
- TURF
- TIMBER TREE SURROUND WITH MULCH  
(REFER TO DETAIL 01A & 01B ON LCC-601)
- FOOTPATH TO ENGINEERS DETAILS
- STORMWATER DRAINAGE LINE
- KERB INLET PIT TO ENGINEERS DETAILS
- PROPOSED POTABLE WATER
- PROPOSED TELECOMMUNICATIONS LINE
- PROPOSED GAS LINE
- PROPOSED ELECTRICITY LINE
- TIMBER EDGE
- PROPOSED LIGHTING COLUMN  
(REFER TO ELECTRICAL ENGINEERS PLANS)
- PROPOSED ELECTRICAL TURRET  
(REFER TO ELECTRICAL ENGINEERS PLANS)
- ENTRY SIGN

KEYPLAN



LEGEND

- EXTENT OF LANDSCAPE WORKS
- ANGOPHORA HISPIDA
- CORYMBIA MACULATA
- CUPANIOPSIS ANACARDIOIDES
- EUCALYPTUS AMPLIFOLIA
- EUCALYPTUS MOLUCCANA
- MELALEUCA DECORA
- TRISTANIOPSIS LAURINA
- WATERHOUSEA FLORIBUNDA
- PROPOSED SHRUB PLANTING
- PROPOSED GROUNDCOVER PLANTING

**NOTES**  
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**PLANTING**  
REFER LANDSCAPE DETAILS, SPECIFICATION AND PLANTING SCHEDULES.  
**TIMING**  
ALL TURF TO BE KIRKBY.  
**SURVEY**  
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REVISION	DATE	DESCRIPTION	BY
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RLA NO # 5868

PROJECT	STATUS
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CLIENT

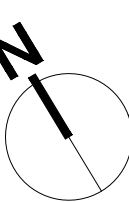
Turner Road Industrial Pty Ltd

TITLE

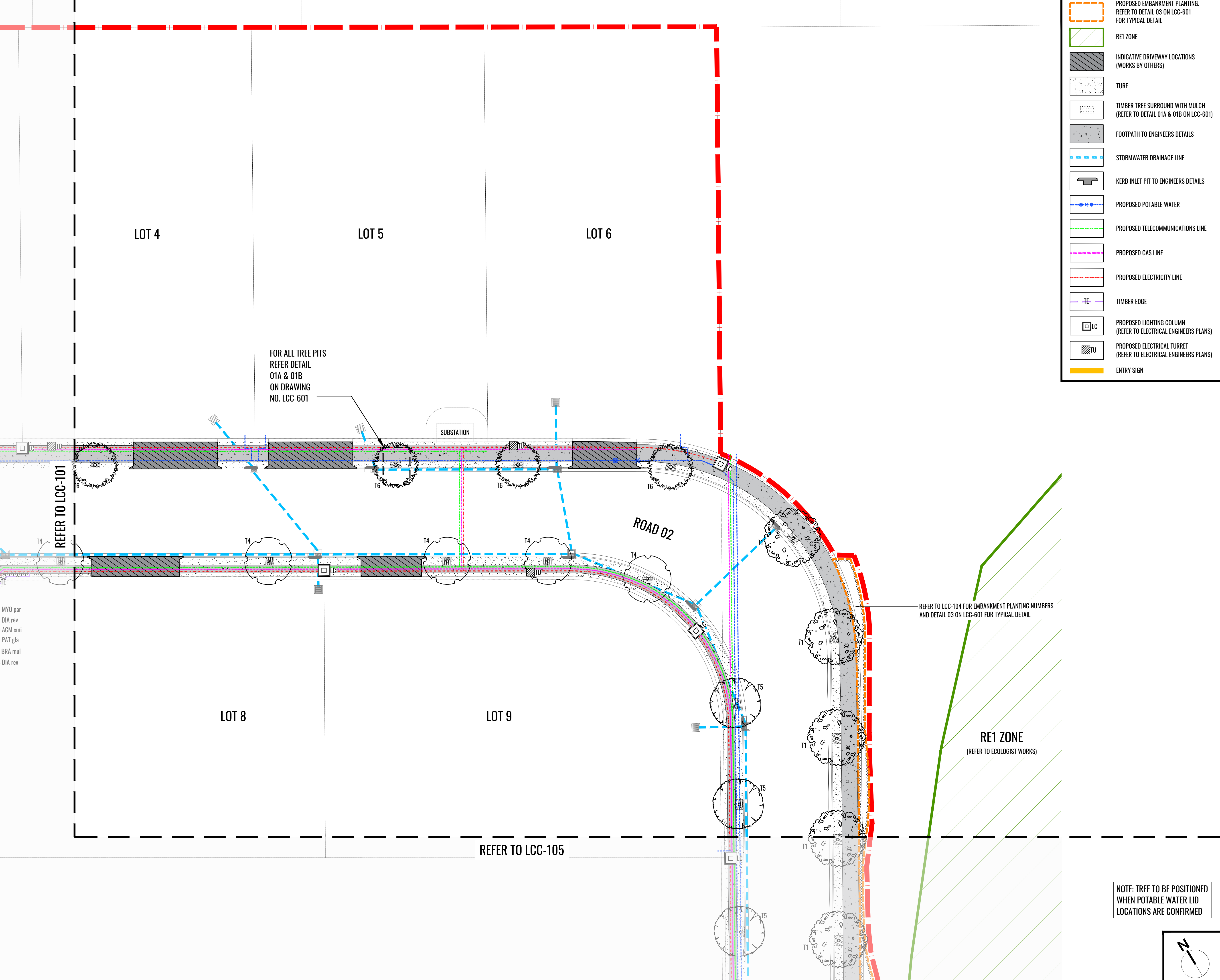
STREETSCAPE PLAN - SHEET 5

SCALE	DATE	DRAWN	CHECKED
1:250 @A1	SEP 2022	PT	BG
JOB NO	DRAWING NO	REV	
220513	LCC-105	3	

NOTE: TREE TO BE POSITIONED  
WHEN POTABLE WATER LID  
LOCATIONS ARE CONFIRMED







KEYPLAN

LEGEND

--- EXTENT OF LANDSCAPE WORKS

ANGOPHORA HISPIDA

CORYMBIA MACULATA

CUPANIOPSIS ANACARDIOIDES

EUCALYPTUS AMPLIFOLIA

EUCALYPTUS MOLUCCANA

MELALEUCA DECORA

TRISTANIOPSIS LAURINA

WATERHOUSEA FLORIBUNDA

PROPOSED SHRUB PLANTING

PROPOSED GROUNDCOVER PLANTING

NOTES

GENERAL NOTES

ALL STREET TREES TO BE PLANTED AS SHOWN ON LANDSCAPE PLANS. DRIVEWAY LOCATIONS ARE SUBJECT TO CIVIL WORKS AND MAY CHANGE DURING CONSTRUCTION.

SETOUTS

ALL SETOUT TO BE VERIFIED ON SITE BY SUPERINTENDANT PRIOR TO COMMENCEMENT OF WORKS. FINAL POSITION TO BE APPROVED ON SITE BY LANDSCAPE ARCHITECT.

SERVICES

VERIFY LOCATIONS OF SERVICE LINES PRIOR TO COMMENCEMENT OF WORKS AND INFORM THE SUPERINTENDANT IF ANY CONFLICTS.

PLANTING

REFER LANDSCAPE DETAILS, SPECIFICATION AND PLANTING SCHEDULES.

TURFING

ALL TURF TO BE KIRKBY.

SURVEY

DRAWINGS ARE BASED ON SURVEY DOCUMENTATION PROVIDED BY THE PROJECT ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND LEVELS ON SITE PRIOR TO COMMENCEMENT OF BUILDING WORKS. ANY DISCREPANCIES SHALL BE REFERRED TO HEAD CONTRACTOR FOR DIRECTION.

IMPORTANT:

NO ORGANIC MATTER TO BE PLACED BELOW 300MM OF SOIL PROFILE. GOOD DRAINAGE TO BASE OF TREE PITS IS ESSENTIAL.

REVISION	DATE	DESCRIPTION	BY
3	01.09.22	100% ISSUE	PT
2	09.08.22	90% ISSUE	PT
1	28.07.22	75% ISSUE	PT

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NOTE:

VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DRAWINGS. DRAWINGS MADE TO LARGER SCALES AND THOSE SHOWING PARTICULAR PARTS OF THE WORKS SHALL TAKE PRECEDENCE OVER DRAWINGS MADE TO SMALLER SCALE AND THOSE FOR GENERAL PURPOSES. ALL WORK IS TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND OTHER CODES AS APPLICABLE, TOGETHER WITH OTHER AUTHORITIES' REQUIREMENTS AND REGULATIONS. THIS DRAWING AND DESIGN IS SUBJECT TO COPYRIGHT AND MAY NOT BE REPRODUCED WITHOUT PRIOR WRITTEN CONSENT. IF IN DOUBT, ASK.

GEOSCAPES

LANDSCAPE ARCHITECTS

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ABN: 84 620 205 781

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RLA NO # 5868

PROJECT

TURNER RD INDUSTRIAL ESTATE  
43-61 TURNER RD, GREGORY HILLS, NSW 2570

STATUS

CC APPROVAL

CLIENT

Turner Road Industrial Pty Ltd

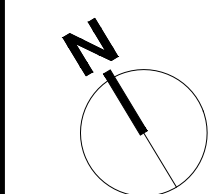
TITLE

STREETSCAPE PLAN - SHEET 6

SCALE	DATE	DRAWN	CHECKED
1:250 @A1	SEP 2022	PT	BG
JOB NO	DRAWING NO	REV	
220513	LCC-106	3	

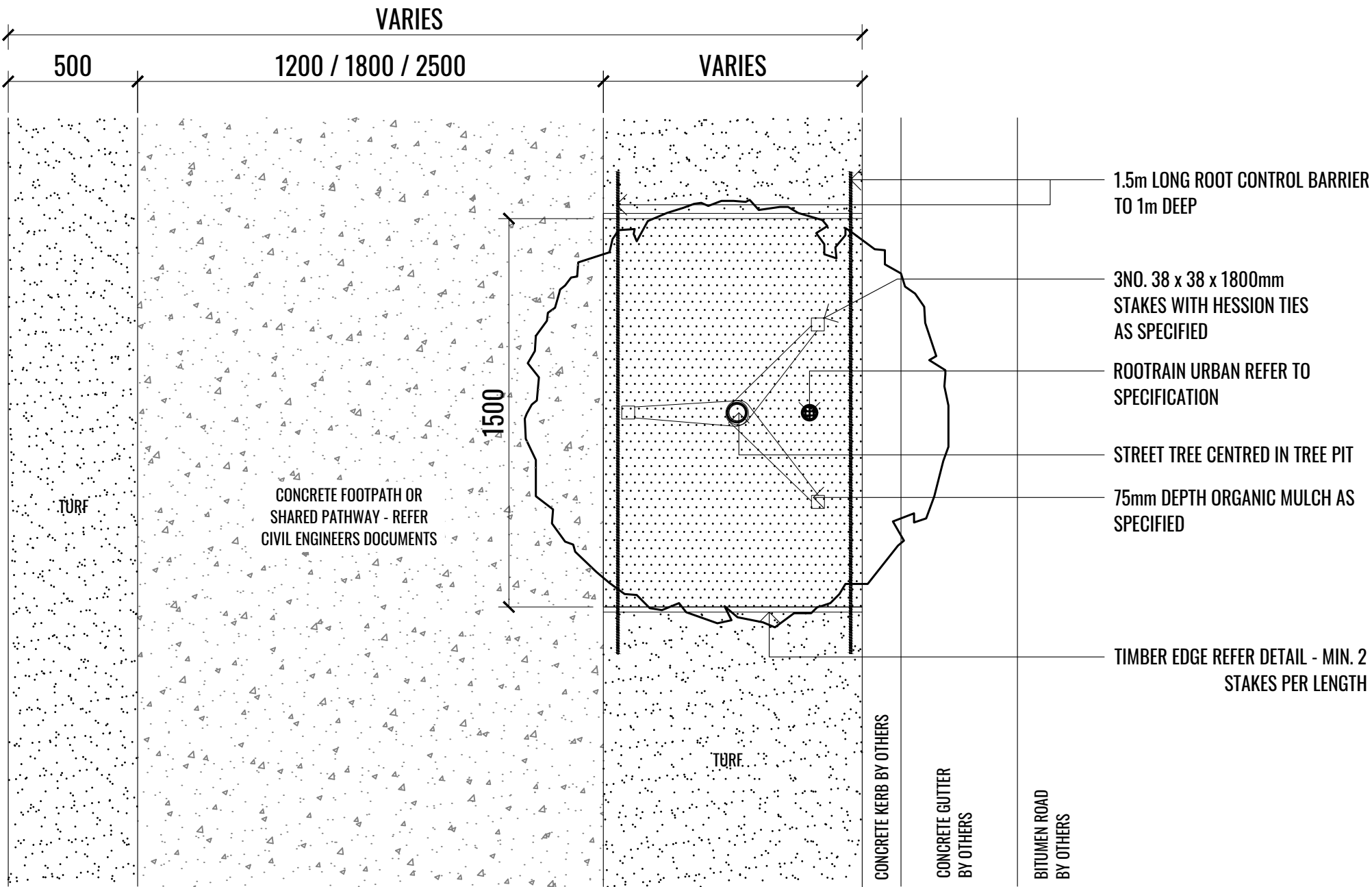
MYO par  
DIA rev  
ACM smi  
PAT gla  
BRA mul  
DIA rev

NOTE: TREE TO BE POSITIONED  
WHEN POTABLE WATER LID  
LOCATIONS ARE CONFIRMED

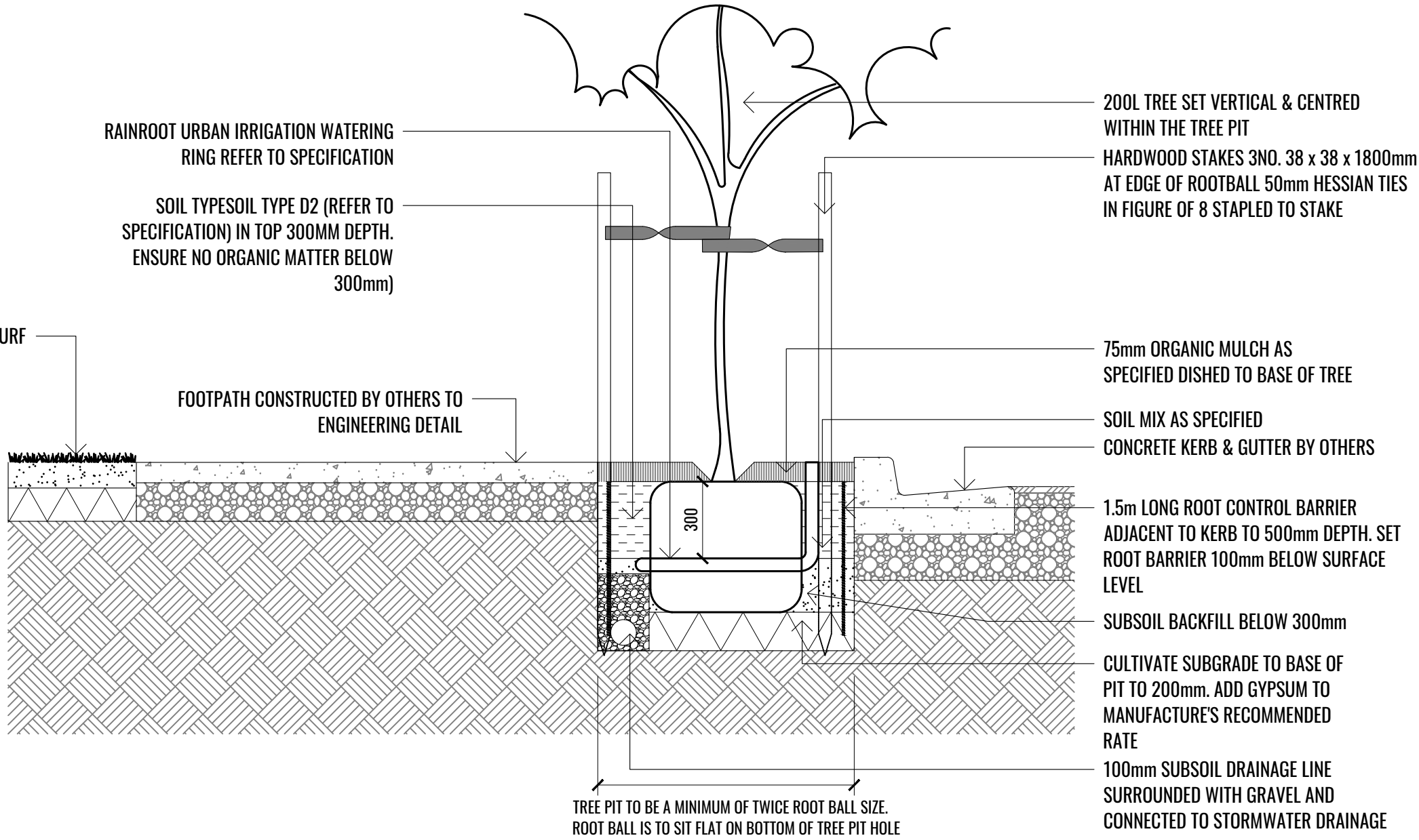


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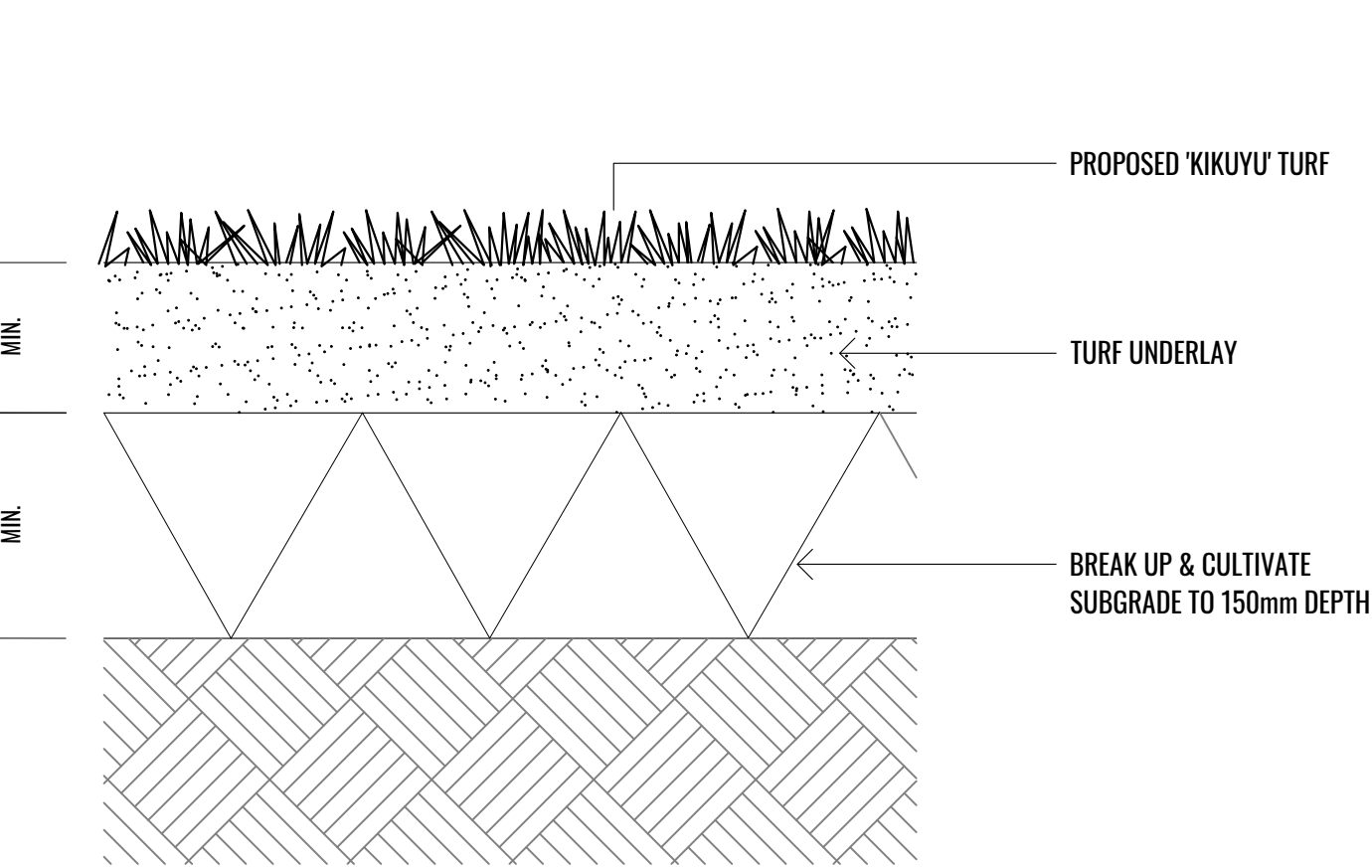




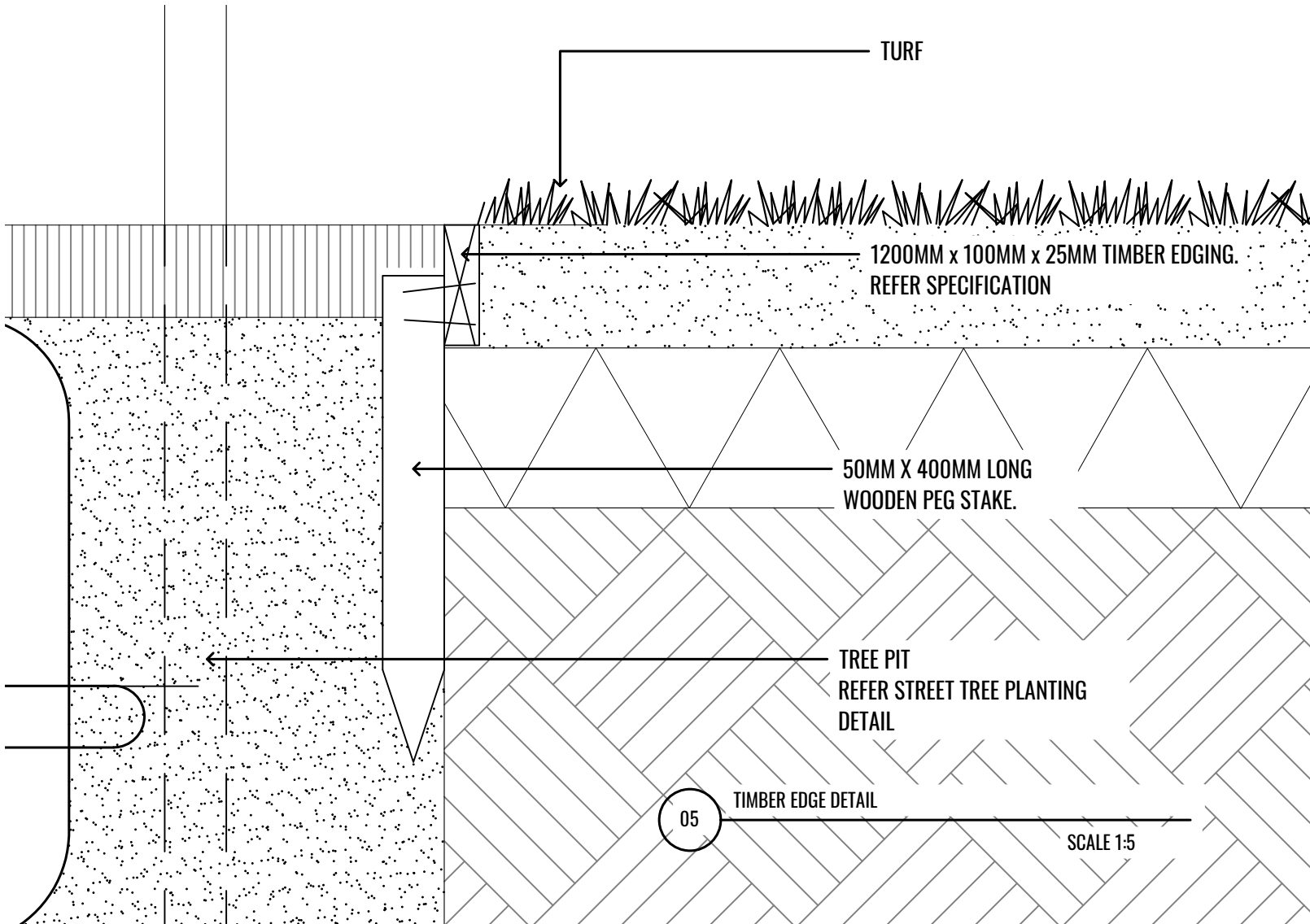
01A TREE PLANTING IN GRASS VERGE WITH FOOTPATH PLAN - TYPICAL DETAIL SCALE 1:20



02 TYPICAL MASS PLANTING DETAIL SCALE 1:20

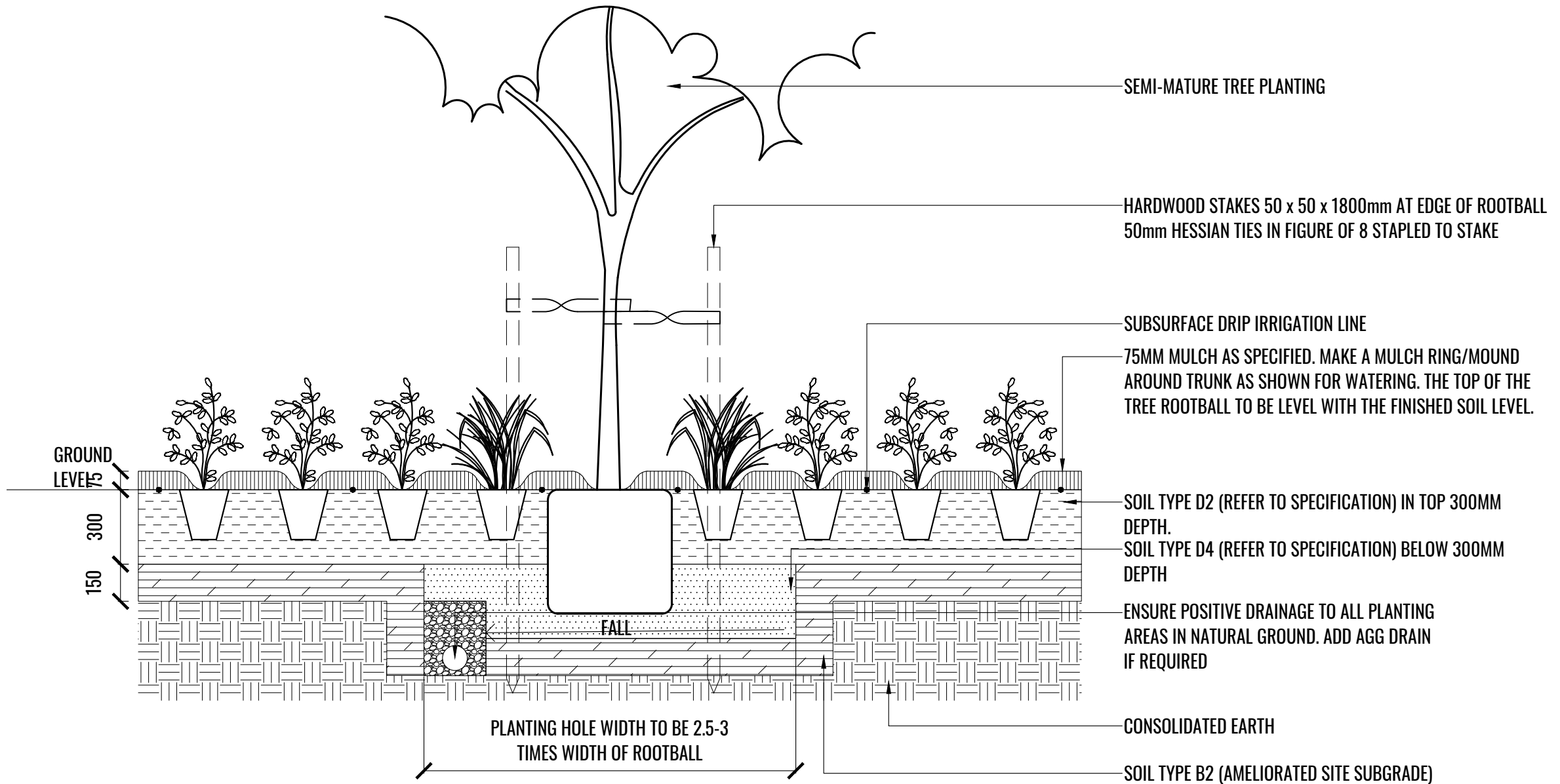


04 TURF SCALE 1:5



05 TIMBER EDGE DETAIL SCALE 1:5

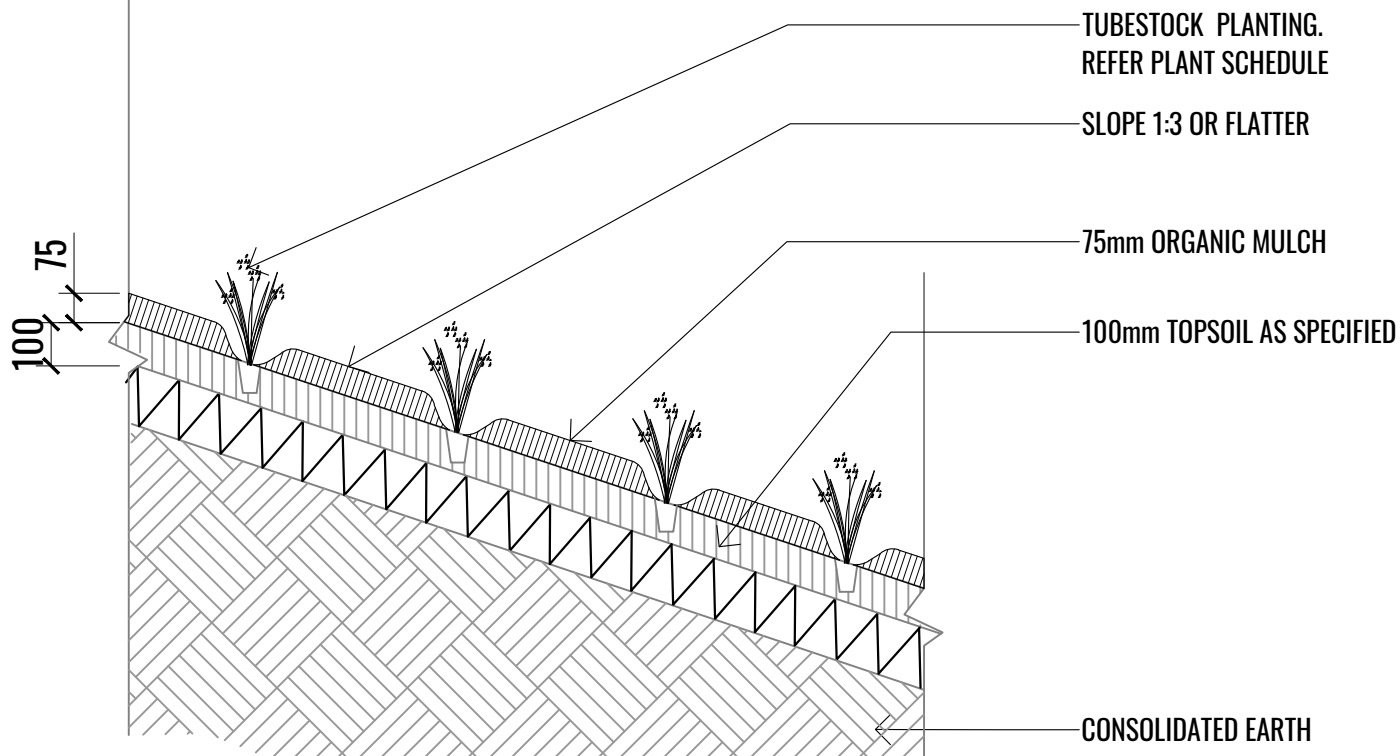
TREE/SHRUB SIZE AND QUALITY TO BE TO NATSPEC STANDARD. SPECIES IS TO BE AS PER PLAN AND PLANT SCHEDULE. ENSURE ONLY HEALTHY AND VIGOROUS, DISEASE FREE, WELL MAINTAINED PLANTS ARE USED. TAKE CARE TO ENSURE FOLIAGE, BRANCHES, TRUNKS AND ROOT CROWNS ARE NOT DAMAGED BEFORE, DURING AND AFTER PLANTING. ENSURE OPTIMUM MAINTENANCE AND ESTABLISHMENT OF TREES/SHRUBS OCCURS AS SOON AS THEY ARE AT SITE



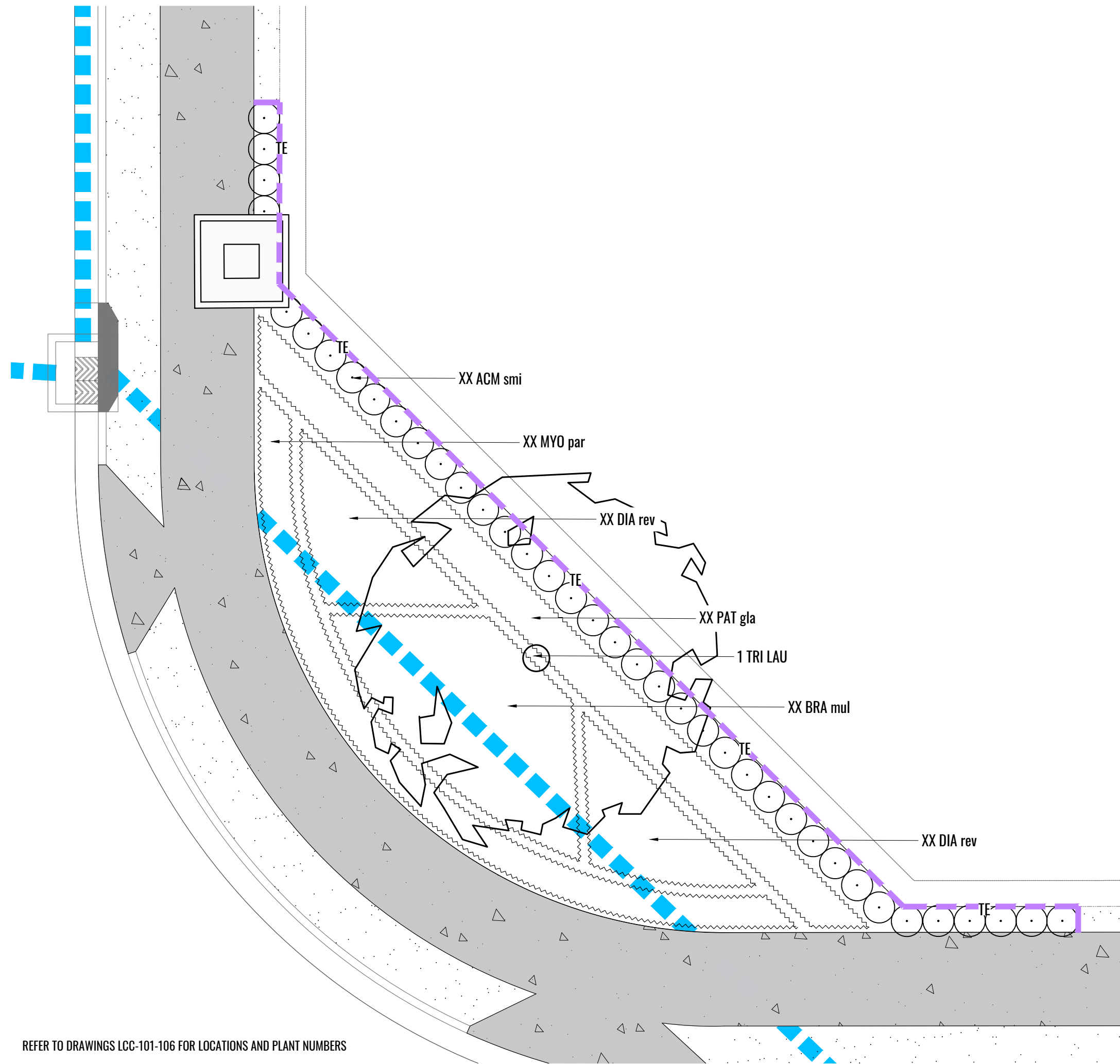
THOROUGHLY SOAK THE ROOTBALL OF TREE WITH FRESH WATER BEFORE TAKING OFF POT OR BAG. WHEN PLANTING HOLE IS COMPLETE USE A SHARP SPADE TO SHAVE OFF 20-50MM OF THE SIDES AND BASE OF ROOTBALL (TO ROOD PRUNE IT) BEFORE CAREFULLY PLACING INTO PLANTING HOLE. IF NORTH IS MARKED ON THE TREE, ENSURE ORIENTATION IS CORRECT WITH NORTH MARKING TO THE NORTH.

- REMOVE ANY STAKES, TIES AND LABELS. WATER ROOTBALL THOROUGHLY.
- TOP OF ROOTBALL TO FINISH FLUSH WITH TOP OF SOIL

06 TYPICAL SPLAY DETAIL SCALE 1:20



03 TYPICAL TUBESTOCK PLANTING DETAIL ON 1:4 GRADE OR FLATTER SCALE 1:20



REFER TO DRAWINGS LCC-101-106 FOR LOCATIONS AND PLANT NUMBERS

06 TYPICAL SPLAY DETAIL SCALE 1:75

3	01.09.22	100% ISSUE		PT
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TITLE				
LANDSCAPE DETAILS				
SCALE	DATE	DRAWN	CHECKED	
AS SHOWN	SEP 2022	PT	BG	
JOB NO	DRAWING NO	REV		
220513	LCC-601	3		