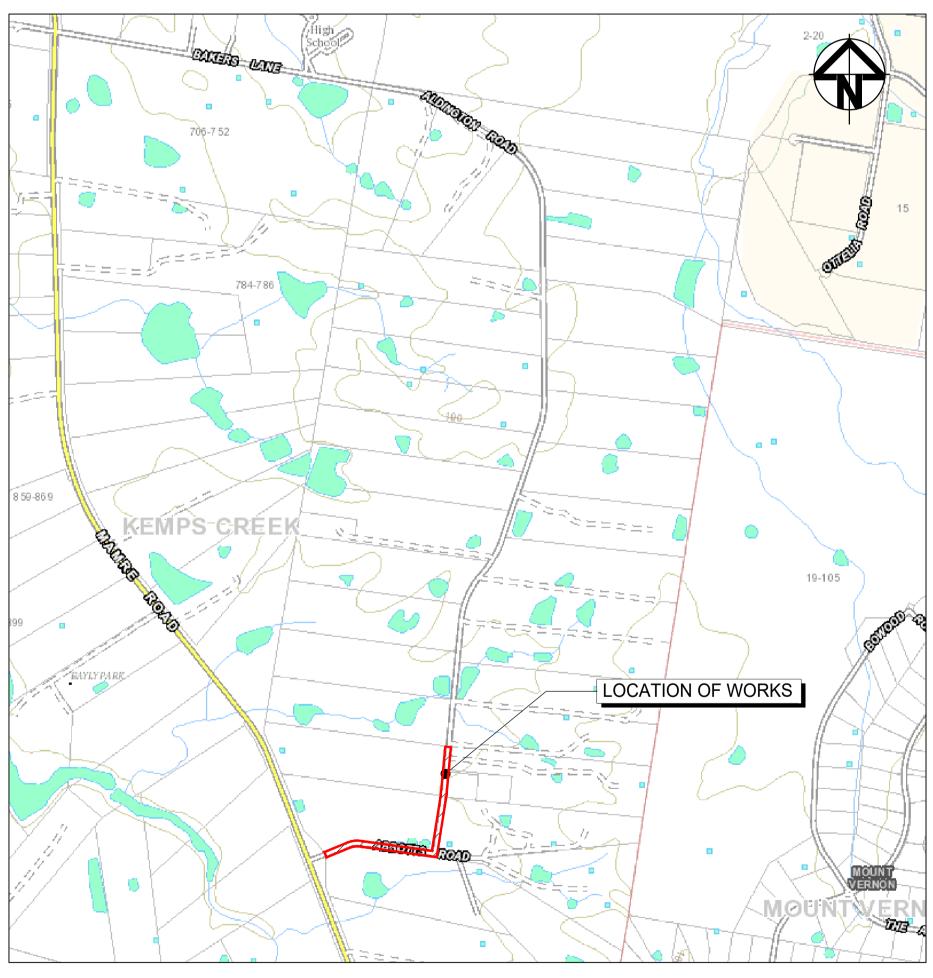
# ALDINGTON AND ABBOTTS ROAD UPGRADE (AARU) PHASE 1 1000-SERIES, TEMPORARY WORKS PACKAGE STAGE 1



P2	ISSUED FOR REVIEW	02-09-24
P1	ISSUED FOR REVIEW	04-07-24
Issue	Description	Date

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LOCALITY PLAN NTS





# FOR CONSTRUCTION

Civil Engineers and Project Managers



Date Plotted: 2 Sep 2024 – 11:13AM File Name: F:\24–1177 AARU ESR\6.0 Drgs\Civil\Final\1000\_Series\24–1177-C1000.dwg

AARU PHASE 1

STAGE 1

**TEMPORARY WORKS** 

COVER SHEET

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DRAWING LIST	
24-1177-C1000	COVER SHEET
24-1177-C1001	DRAWING LIST
24-1177-C1002	GENERAL NOTES
24-1177-C1010	GENERAL ARRANGEMENT & ALIGNMENT CONTROL PLAN
TYPICAL SECTIONS	
24-1177-C1021	TYPICAL SECTION AND PAVEMENT DETAIL
SITEWORKS	
24-1177-C1101	ROADWORKS PLAN SHEET 1
24-1177-C1102	ROADWORKS PLAN SHEET 2
24-1177-C1103	ROADWORKS PLAN SHEET 3
24-1177-C1104	ROADWORKS PLAN SHEET 4
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SIGNAGE AND LINEMARKING	
24-1177-C1301	SIGNAGE AND LINEMARKING PLAN SHEET 1
24-1177-C1302	SIGNAGE AND LINEMARKING PLAN SHEET 2
24-1177-C1303	SIGNAGE AND LINEMARKING PLAN SHEET 3
24-1177-C1304	SIGNAGE AND LINEMARKING PLAN SHEET 4
24-1177-C1305	SIGNAGE AND LINEMARKING PLAN SHEET 5
CATCHMENT PLAN	
24-1177-C1501	STORMWATER CATCHMENT PLAN
ROAD CROSS SECTIONS	
24-1177-C1701	ROAD CROSS SECTIONS ABBOTTS ROAD SHEET 1
24-1177-C1702	ROAD CROSS SECTIONS ABBOTTS ROAD SHEET 2
24-1177-C1711	ROAD CROSS SECTIONS ALDINGTON ROAD SHEET 1
LONGITUDINAL SECTIONS	
24-1177-C1751	LONGITUDINAL SECTIONS DRAINAGE CHANNEL SHEET 1
24-1177-C1752	LONGITUDINAL SECTIONS DRAINAGE CHANNEL SHEET 2
VEHICLE TURN PATH PLANS	
24-1177-C1801	VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 1
24-1177-C1802	VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 2
24-1177-C1803	VEHICLE TURN PATH ALDINGTON RD & ABBOTTS RD INTERSECTION SHEET 3



# FOR CONSTRUCTION

Civil Engineers and Project Managers



AARU PHASE 1 STAGE 1 TEMPORARY WORKS

DRAWING LIST

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# CIVIL WORKS GENERAL NOTES

#### **GENERAL NOTES**

- LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D). 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTES OTHERWISE. ALL LEVELS, METREAGES, STATIONS AND
- CO-ORDINATES ARE EXPRESSED IN METRES. SERVICES ARE INDICATIVE ONLY. THE CONTRACTOR IS TO CONFIRM LOCATIONS OF ALL SERVICES PRIOR TO COMMENCING WORK. THE CONTRACTOR TO ENSURE ADOPTED. METHOD OF CONSTRUCTION WILL AVOID DAMAGE TO ALL
- SERVICES. ACCESS TO PROPERTIES TO BE MADE AVAILABLE BY CONTRACTOR AT ALL TIMES DURING CONSTRUCTION.

#### SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY LANDPARTNERS, 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. POINT OF ORIGIN: PM33562

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

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

IMPORTANT NOTE:

TREE SIZES ARE ESTIMATES ONLY. ONLY VISIBLE SERVICES HAVE BEEN LOCATED IN THIS SURVEY.

SERVICE AND UTILITIES SHOWN ON PLAN HAVE BEEN LOCATED BY PHYSICAL EVIDENCE ON SITE ONLY AND MAY NOT HAVE BEEN OPENED TO VERIFY THE TYPE OF UTILITY. NEITHER EXCAVATION NOR POTHOLING HAVE BEEN CARRIED OUT TO CONFIRM UNDERGROUND LOCATION. SERVICE DETAILS SHOULD BE CONFIRMED WITH THE RELEVANT SERVICE AUTHORITY DURING DESIGN AND PRIOR TO ANY CONSTRUCTION

ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ANY CONSTRUCTION. THE POSITION OF SURVEYED DATA HAS BEEN LOCATED AND IS SHOWN TO TOPOGRAPHIC ACCURACIES. IF CLEARANCES TO BOUNDARIES OR OTHER FEATURES ARE CRITICAL AND DIMENSIONS ARE NOT SHOWN FURTHER SURVEY MAY BE REQUIRED. THE TITLE BOUNDARIES SHOWN HEREON WERE NOT MARKED AT THE TIME OF

SURVEY AND HAVE BEEN DETERMINED BY PLAN DIMENSIONS ONLY AND NOT BY FIELD SURVEY. ANY CONSTRUCTION ON OR NEAR BOUNDARIES WILL REQUIRE FURTHER

SURVEY IN ORDER THAT MARKS DEFINING BOUNDARIES CAN BE PLACED.

#### **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 INACCURACIES 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.

#### DEWATERING

ANY DEWATERING WORKS TO BE AS PER THE DEWATERING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).

#### **DECOMMISSIONING / DEMOLITION**

EXISTING FENCING, UTILITIES AND OTHER REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN APPROVED WASTE MANAGEMENT FACILITY.

100mm on Original

#### NOTE

THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE CONSTRUCTION SPECIFICATION FOR THE THE RELEVANT AUTHORITY.

WHERE A DISCREPANCY EXISTS BETWEEN THESE NOTES AND THOSE WITHIN AN AUTHORITY SPECIFICATION, THE AUTHORITY SPECIFICATION MUST BE ADOPTED.

#### **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.
- 6. IN THE REPLACEMENT OF KERB AND GUTTER :-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.
- EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.
- 8. EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

### **EMBANKMENT CONSTRUCTION** SEQUENCE

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.

- 2. CONSTRUCT EMBANKMENT IN PRESENCE OF YOUR QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK. GEOTECHNICAL ENGINEER TO PROVIDE CERTIFICATION EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH DOCUMENTATION.
- 3. IN THE CASE WHERE THE EMBANKMENT MATERIAL IN UNSUITABLE, THE CONTRACTOR WILL SOURCE SUITABLE MATERIAL FOR EMBANKMENTS AND PROVIDE GEOTECHNICAL CERTIFICATION.
- 4. COMPACT CLAY STABILISED WITH HYDRATED LIME (3% BY DRY MASS. MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYER OF 300mm 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.
- 5. CONSTRUCT BODY OF EMBANKMENT WITH STABILISED CLAYEY MATERIAL WON FROM SITE WITH HYDRATED LIME (3% BY DRY MASS MINIMUM) OR IMPORT STABILISED MATERIAL OF THE SAME STANDARD. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYER OF 300mm THICKNESS TO A DRY DENSI 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. REPAIR AS DIRECTED BY YOUR QUALIFIED AND EXPERIENCED GEOTECHNICA ENGINEER.
- 6. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
- 7. PLACE ROCK RIP-RAP AS SHOWN.
- 8. 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.
- 9. WATER AND FERTILIZE LANDSCAPE AS REQUIRED BY CLIMACTIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
- 10. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION & CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED & EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

2	CONC
1.	ALL WC AS 3600 VARIED
2.	Concr All Re Specif Reinfc
	VEHI

# PITS

# NOMINAL BAR

8. FOLLOWING DETAIL:

- 1% AFP 5% AEP
- WELDED JOINTS.
- IN HEIGHT.

Bar Scales

P2	ISSUED FOR REVIEW	02-09-24
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#### **CRETE NOTES**

#### ORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH 0 CURRENT EDITION WITH AMENDMENTS. EXCEPT WHERE D BY THE CONTRACT DOCUMENTS.

RETE QUALITY EQUIREMENTS OF THE CURRENT ACSE CONCRETE FICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK,

ORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
ICULAR BASE	32	60	20
BS, PATHS, AND	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 **FDGES 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.

6. 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

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 \_\_\_\_ BAR GRADE AND TYPE

ACING IN mm THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERANCE NUMBER FOR FABRIC TO AS 1304.

FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE

25 MIN LAP TWO WIRES

#### STORMWATER DRAINAGE NOTES

#### STORMWATER DESIGN CRITERIA: (A) AVERAGE EXCEEDANCE PROBABILITY:

#### MAJOR STORM (OVERLAND FLOW) MINOR STORM (PIPED NETWORK)

2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O. 3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT

4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED. SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.

5. 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

6. PIPES TO BE INSTALLED TO TYPE HS3 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) 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)

7 ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2

8. PRECAST PITS MAY BE USED SUBJECT TO APPROVAL BY AT & L.

9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED

FITTINGS WHERE PIPES ARE LESS THAN 300 DIA. 10. WHERE SUBSURFACE DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.

11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.

12. GRATES AND COVERS SHALL CONFORM TO AS 3996. 13. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE

SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

14. 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.

15. PROVIDE ANTI GRAFFITI PAINT TO FACE OF HEADWALLS.

#### **EROSION AND SEDIMENT CONTROL**

#### NOTES

#### **GENERAL INSTRUCTIONS**

- 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
- 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. 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.

#### 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.
- 0. 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.
- 1. 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.

CONTINUED ABOV

#### 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 PENRITH CITY COUNCIL'S ENGINEERS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING. DOCUMENTING. INSTALLING AND MAINTAINING THE SEDIMENT AND EROSION CONTROLS REQUIRED 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 ND 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, PENRITH CITY 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. EPA REQUIREMENTS

#### EARTHWORKS NOTES

- WHERE EARTHWORKS ARE TO BE CONSTRUCTED ON OR AGAINST ANY EMBANKMENTS OR AGAINST ANY SLOPES AND THE EMBANKMENT/SLOPE IS STEEPER THAN 10(H):1(V) IN ANY DIRECTION, THE CONTRACTOR SHALL CUT TERRACES INTO THE SLOPE TO A MINIMUM DEPTH OF 300mm, EXCEPT WHERE SLOPES ARE STEEPER THAN 4(H):1(V) WHERE, MINIMUM DEPTH SHALL BE 600mm, TO ALLOW ADEQUATE KEY AND COMPACTION OF MATERIAL.
- THE CONTRACTOR SHALL PRODUCE A MATERIAL TRACKING REGISTER FOR ALL IMPORT AND EXPORT MATERIAL INCLUDING DEMOLITION WASTE. FOR INSTANCES WHERE CONTAMINATED MATERIAL IS EXPORTED FROM THE SITE, THE CONTRACTOR SHALL ENSURE A CHAIN OF CUSTODY REPORT AND CERTIFICATES ARE PROVIDED FOR THE CONTAMINATED MATERIAL.

### CONSTRUCTION TOLERANCES

ALL WORKS

BULK EARTHWORKS	
EARTHWORKS	-10mm / +20mm
	·
VERGE	
T1105	
TURF	-10mm / +0mm
MULCH	-10mm / +0mm
RETAINING / WALLS	
WALL	-20mm / +20mm
WALL	-10mm / +10mm
\A/A11	5
WALL	-5mm / +0mm
WALL	20.000 ( ) 20.000
WALL	-20mm / +20mm

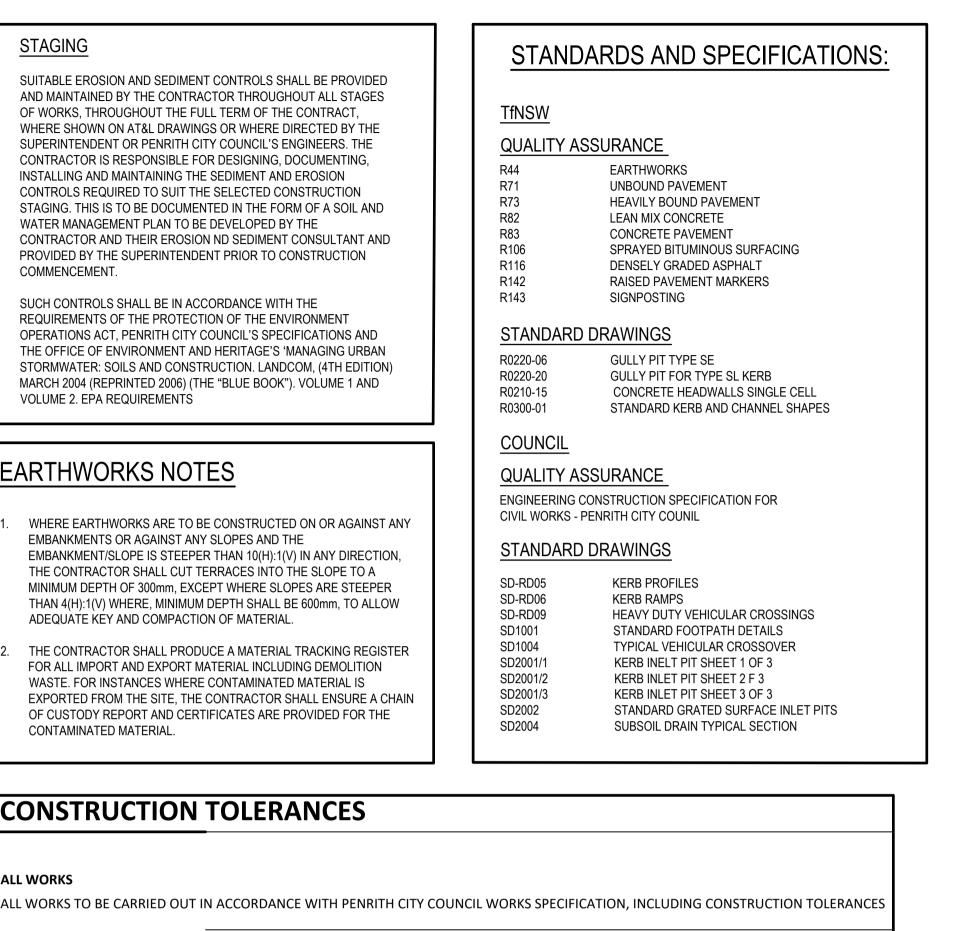


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Grid	GDA2020	Checked	AL	
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#### **GDA2020**

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Client



OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)

OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION) TO THE ADJOINING MATERIAL (FOOTPATHS, KERBS, ETC) OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION) TO THE ADJOINING MATERIAL (FOOTPATHS, KERBS, ETC)

INCLINATION OF THE FACE OF THE COMPLETED WALL MUST NOT DEVIATE FROM THE SPECIFIED INCLINATION PER METER HEIGHT (BLOCK WALL)

INCLINATION OF THE FACE OF THE COMPLETED WALL MUST NOT DEVIATE FROM THE SPECIFIED INCLINATION PER METER HEIGHT (PANEL WALL) FLATNESS OF THE FACE OF THE WALL MUST BE SUCH THAT THE MAXIMUM DEVIATION FROM A 4.5 M STRAIGHT EDGE

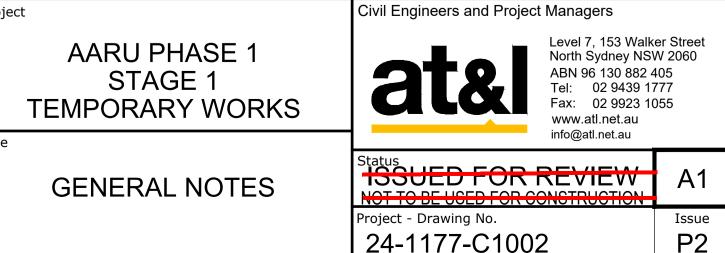


SERVICE AUTHORITY PLANS PRIOR TO

COMMENCEMENT OF WORK

P2





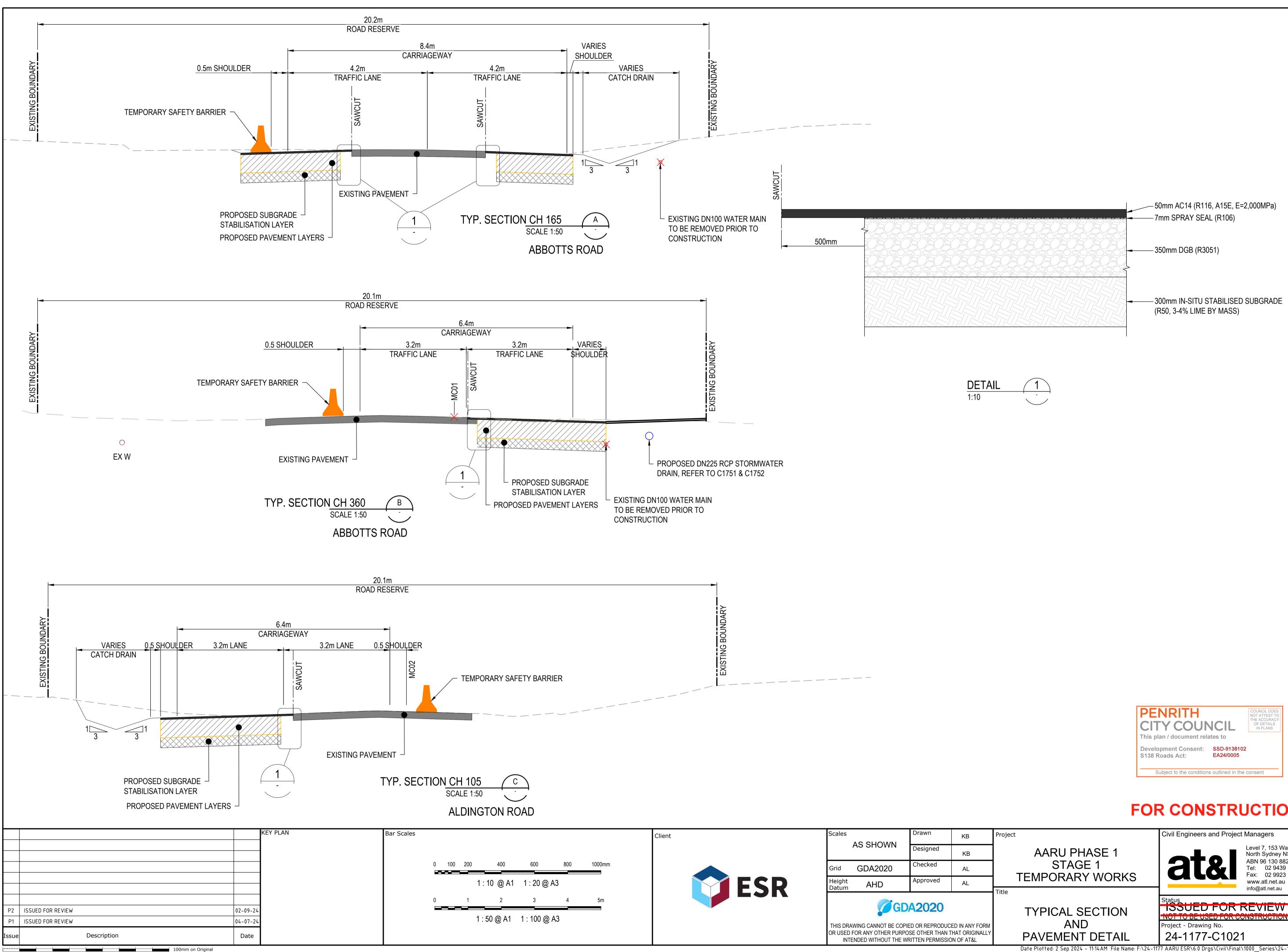
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LEGEND       EXISTING BOUNDAR       EXISTING EASEMENT       CONTROL LINE    ABBOTTS RD EXTEN    UNDER SEPARATE A    MAMRE RD TEMPOR    ESR DEVELOPMENT	T ISION WORKS APPROVAL ARY WORKS		
	SRC 10 38 STATES STATES	SHOWN IN PINK ARE	EXISTING EXISTING MIDE TRANSGRID TRANSK TRANSGRID TRANSGRID TRANSGRID TRANSGRID TRANSK
P2  ISSUED FOR REVIEW    P1  ISSUED FOR REVIEW    Issue  Description	02-09-24 04-07-24	THE S138 APPROVA INFORMATIO	L. SHOWN FOR





F:\24-1177 AARU ESR\6.0 Drgs\Civil\Final\1000\_Series\24-1177-C1010.dwg

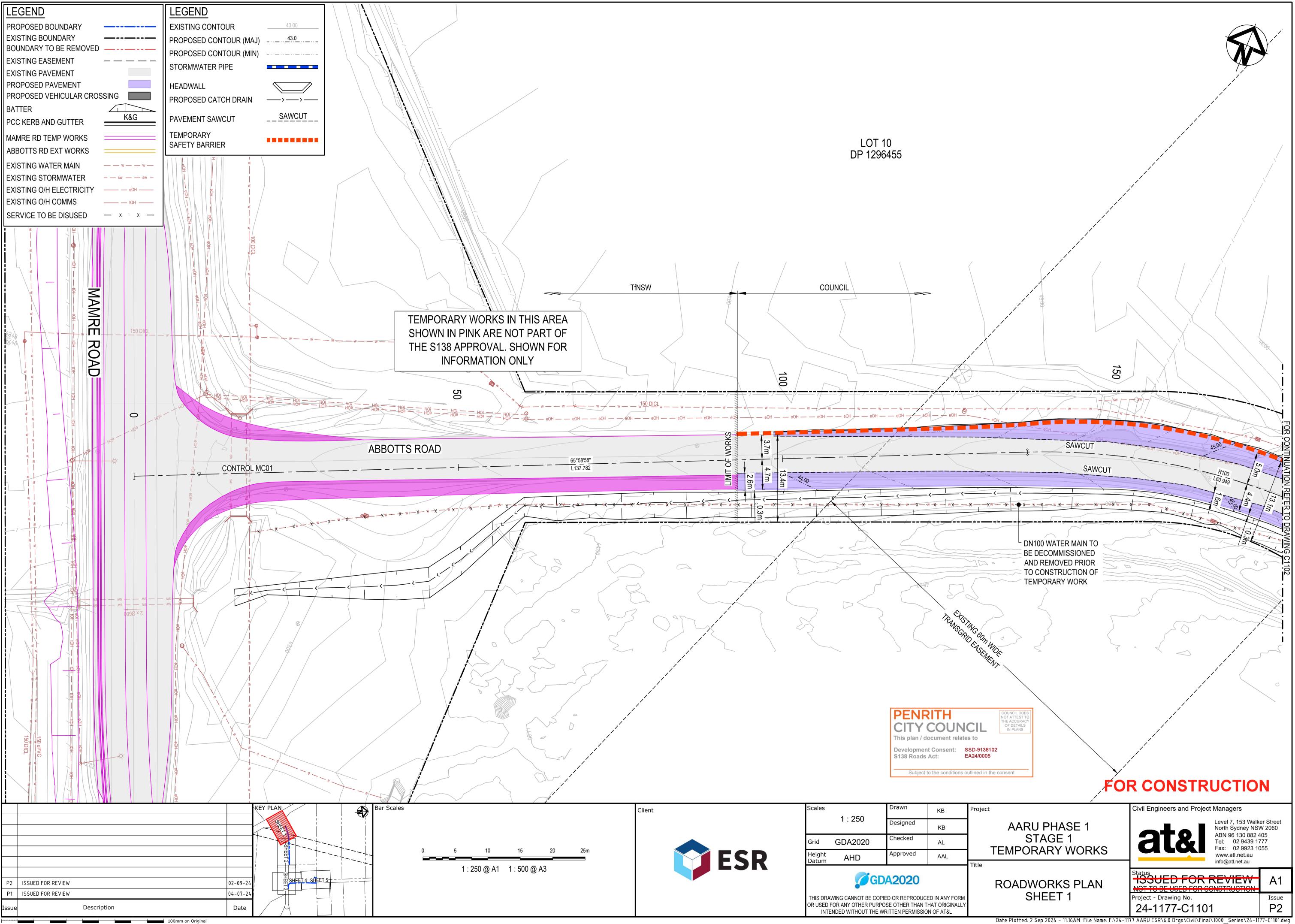


				Client	Scales	Drawn	KB	Proje
					AS SHOWN	Designed	КВ	
400	600	800	1000mm		Grid GDA2020	Checked	AL	
1 : 10 @ A1	1 : 20 @ A	3		ESI	Height Datum AHD	Approved	AL	Title
2	3	4	5m			A2020		The
1 : 50 @ A1	1 : 100 @ A	.3						
					THIS DRAWING CANNOT BE COP OR USED FOR ANY OTHER PURP INTENDED WITHOUT THE W	OSE OTHER THAN 1	THAT ORIGINALLY	

## FOR CONSTRUCTION

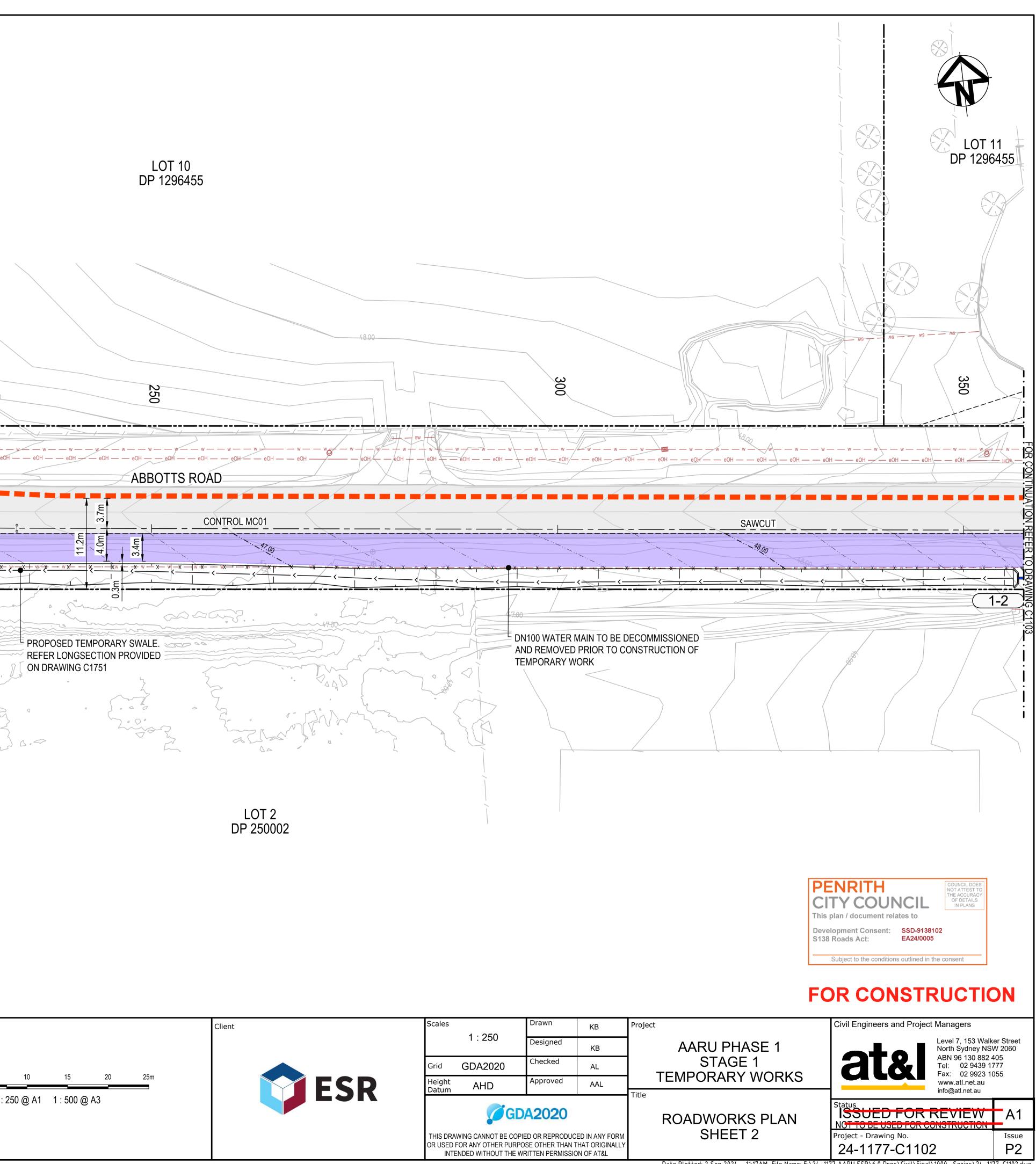
S	at&l	Level 7, 153 Walke North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au info@atl.net.au	N 2060 105 777
	Status ISSUED FOR F		A1
	Project - Drawing No. 24-1177-C1021		Issue P2

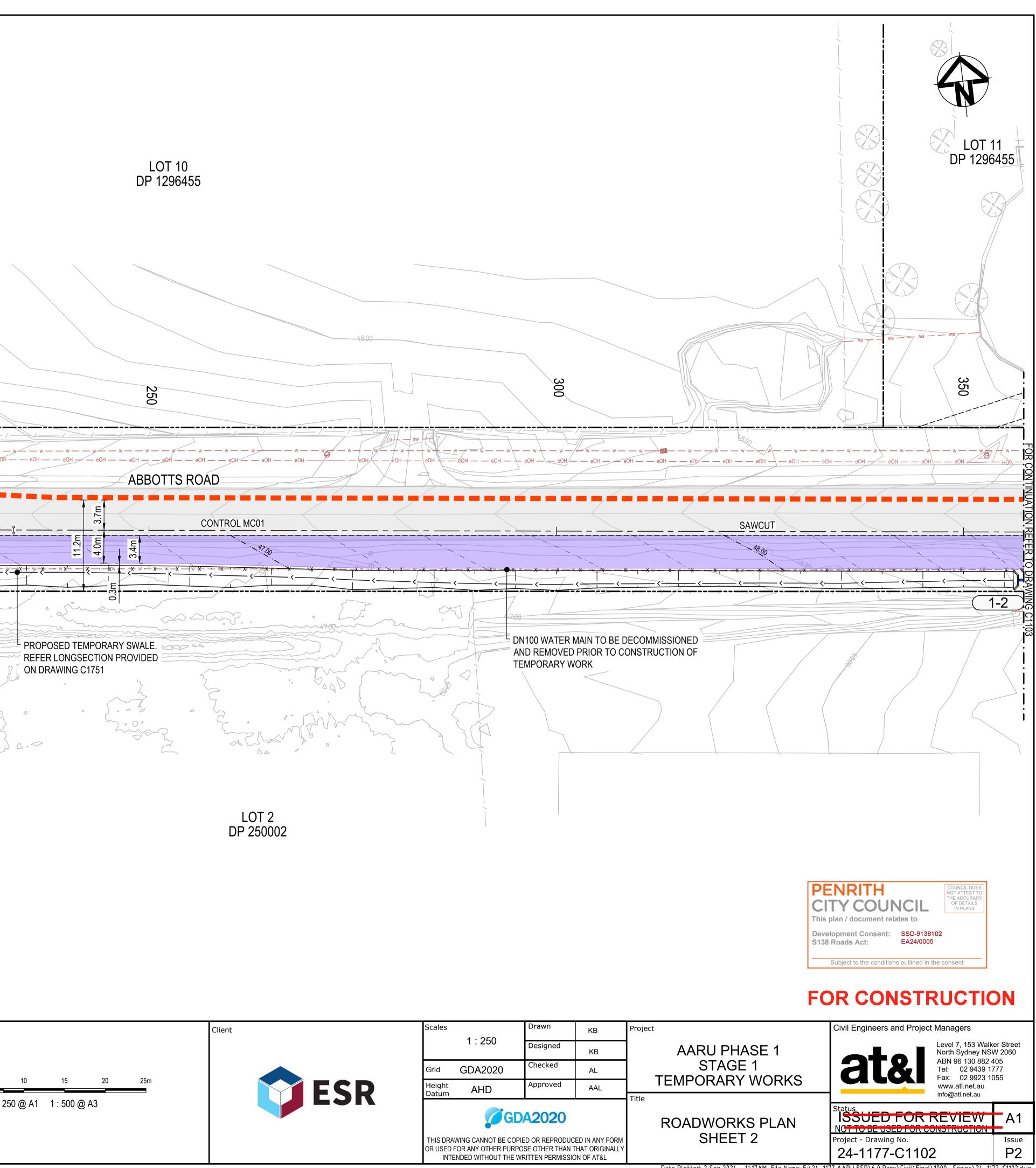
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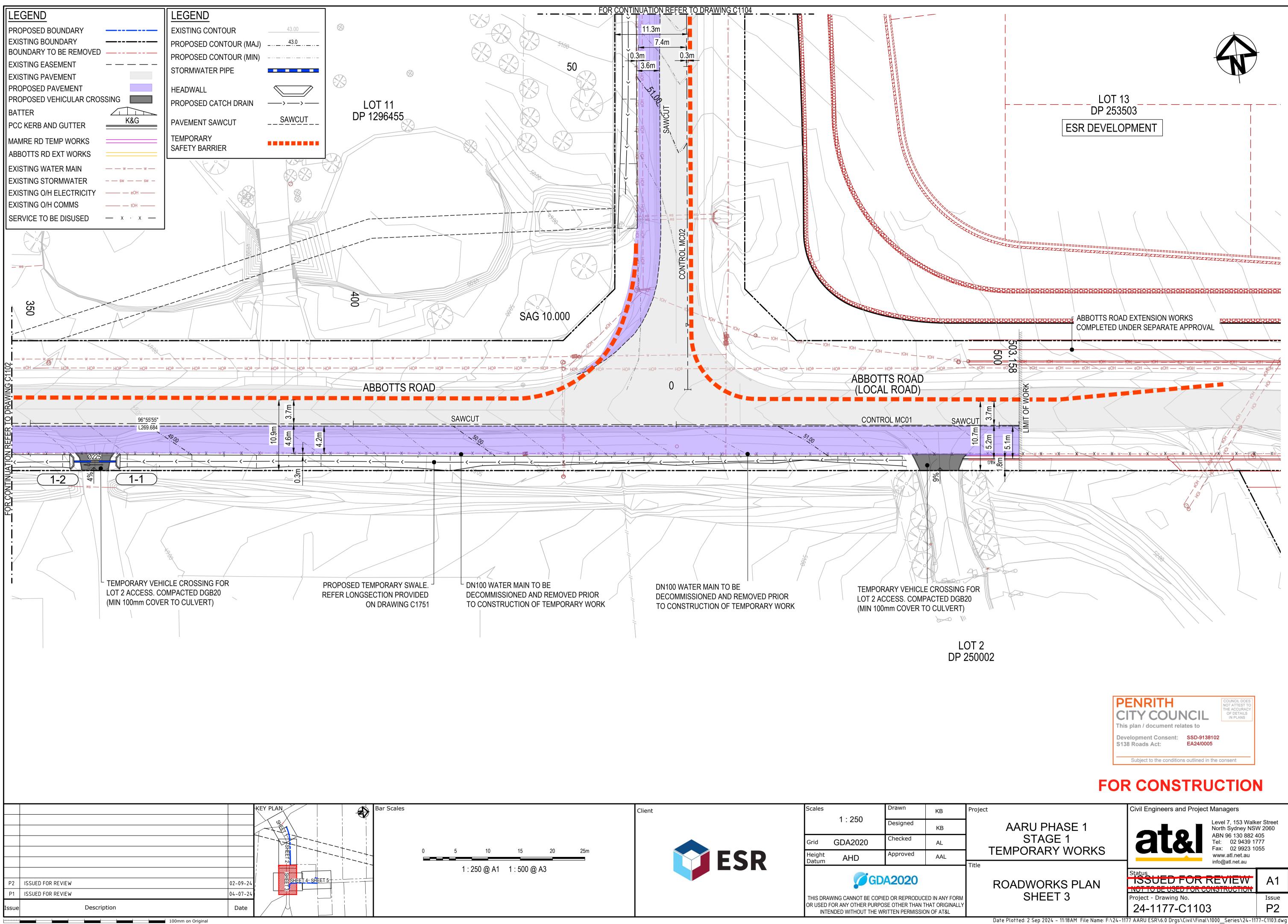
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LEGEND    PROPOSED BOUNDARY    EXISTING BOUNDARY    BOUNDARY TO BE REMOVED    EXISTING EASEMENT    EXISTING PAVEMENT    PROPOSED PAVEMENT    PROPOSED VEHICULAR CROSSING    BATTER    PCC KERB AND GUTTER    MAMRE RD TEMP WORKS    ABBOTTS RD EXT WORKS    EXISTING WATER MAIN    EXISTING O/H ELECTRICITY    EXISTING O/H COMMS    SERVICE TO BE DISUSED	LEGEND    EXISTING CONTOUR  43.0    PROPOSED CONTOUR (MAJ)  43.0    PROPOSED CONTOUR (MIN)
	X0    47.00      X1.661
P2 ISSUED FOR REVIEW P1 ISSUED FOR REVIEW Issue Description	KEY PLAN    Bar Scales      0    5      02-09-24    0      04-07-24    0      Date    0





Date Plotted: 2 Sep 2024 – 11:17AM File Name: F:\24–1177 AARU ESR\6.0 Drgs\Civil\Final\1000\_Series\24–1177-C1102.dwg



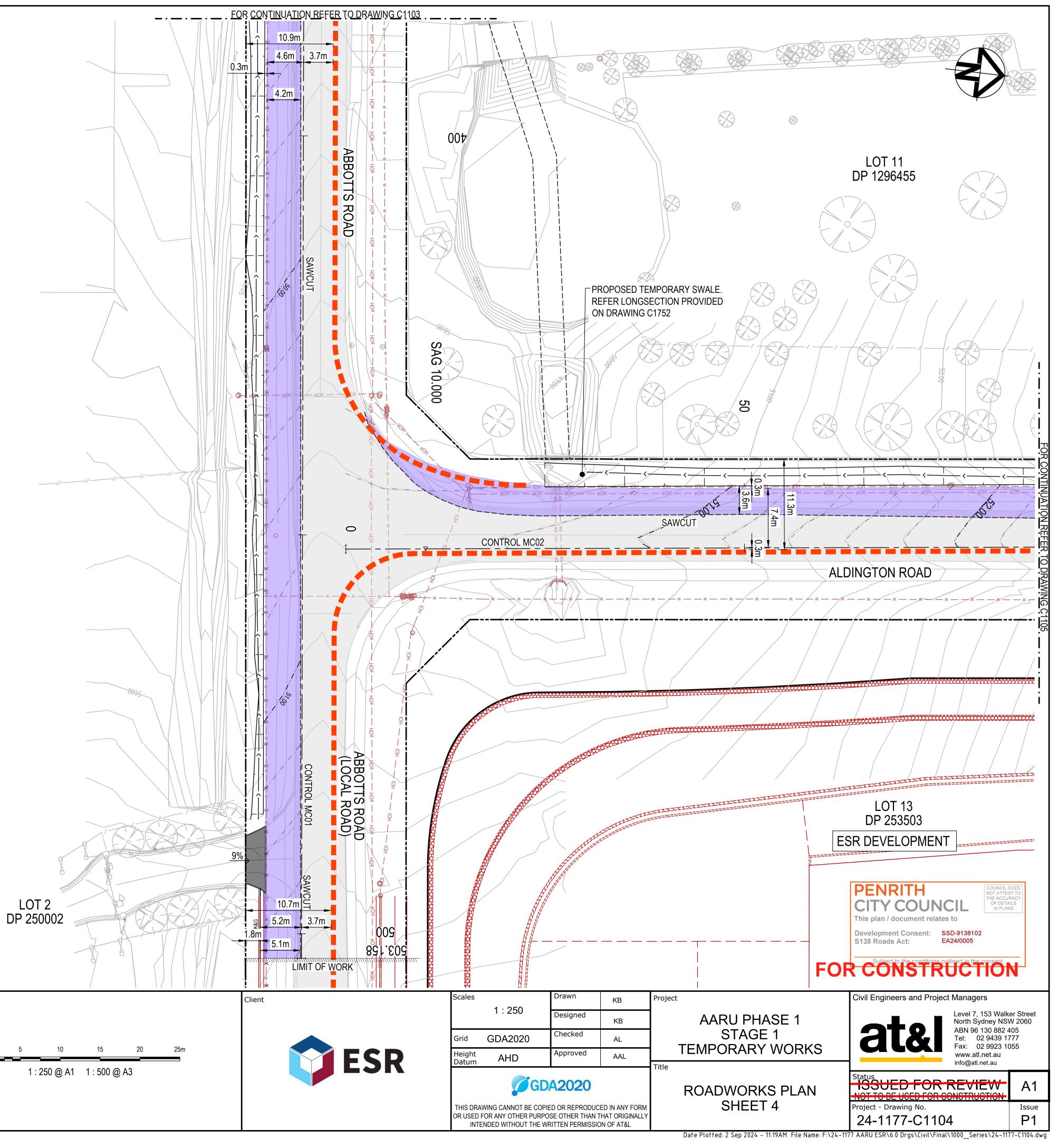
				Client		Scales	4 050	Drawn	KB	Proj
							1 : 250	Designed	КВ	1
10			0.5			Grid	GDA2020	Checked	AL	
10	15	20	25m		ESR	Height Datum	AHD	Approved	AAL	Title
: 250 @ A1	1 : 500 @ /	43					G	DA2020		
						OR USED F	VING CANNOT BE COP OR ANY OTHER PURF NDED WITHOUT THE \	POSE OTHER THAN	THAT ORIGINALLY	

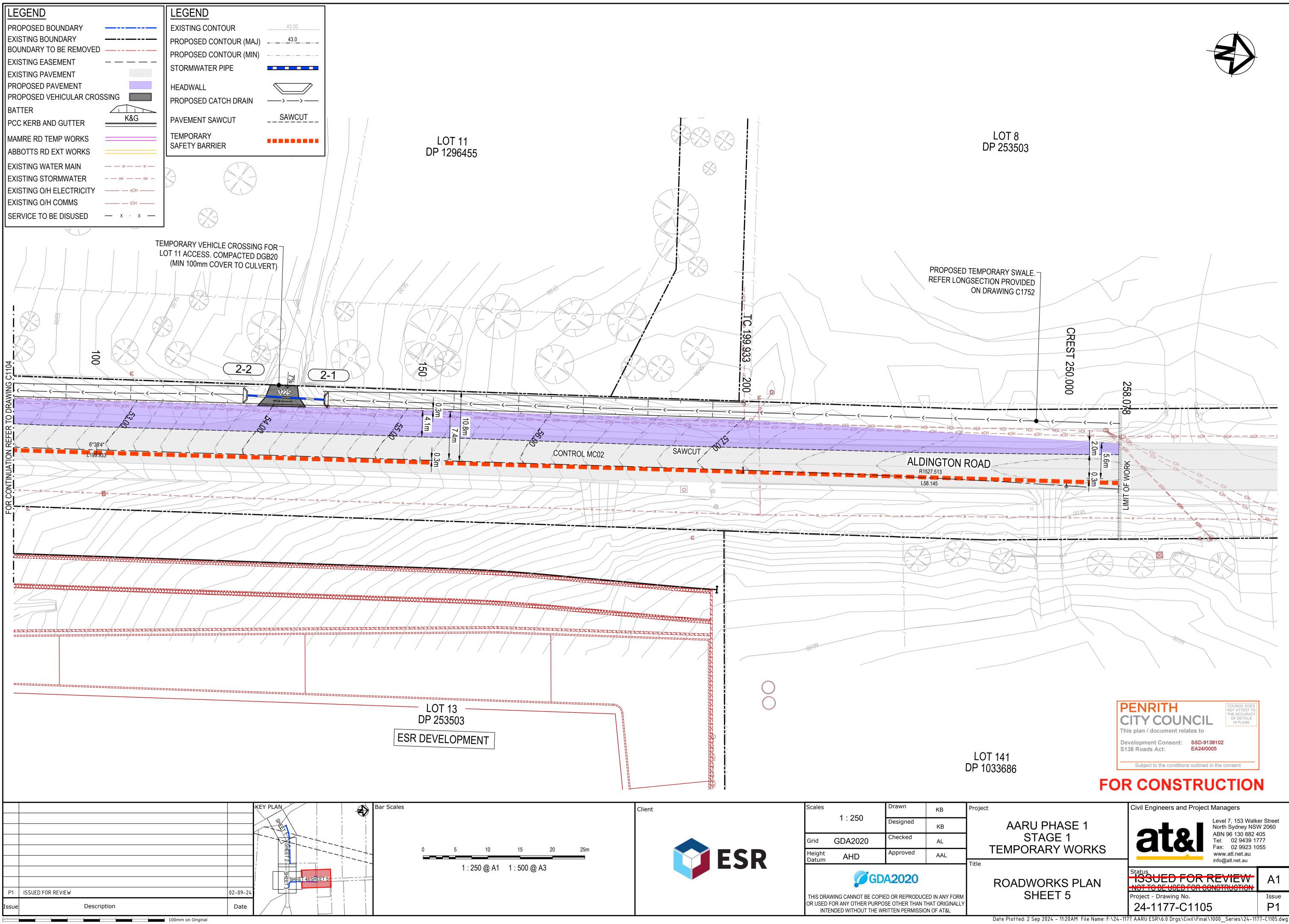
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LEGEND		LEGEND	
PROPOSED BOUNDARY		EXISTING CONTOUR	43.00
EXISTING BOUNDARY		PROPOSED CONTOUR (MAJ)	43.0
BOUNDARY TO BE REMOVED		PROPOSED CONTOUR (MIN)	
EXISTING EASEMENT EXISTING PAVEMENT		STORMWATER PIPE	
PROPOSED PAVEMENT		HEADWALL	
PROPOSED VEHICULAR CRO	SSING	PROPOSED CATCH DRAIN	>
BATTER			SAWCUT
PCC KERB AND GUTTER	K&G	PAVEMENT SAWCUT	
MAMRE RD TEMP WORKS		TEMPORARY	
ABBOTTS RD EXT WORKS	· ·	SAFETY BARRIER	
EXISTING WATER MAIN	— — w — — w —		
EXISTING STORMWATER	— — sw — sw —		
EXISTING O/H ELECTRICITY	eOH		
EXISTING O/H COMMS	tOH		

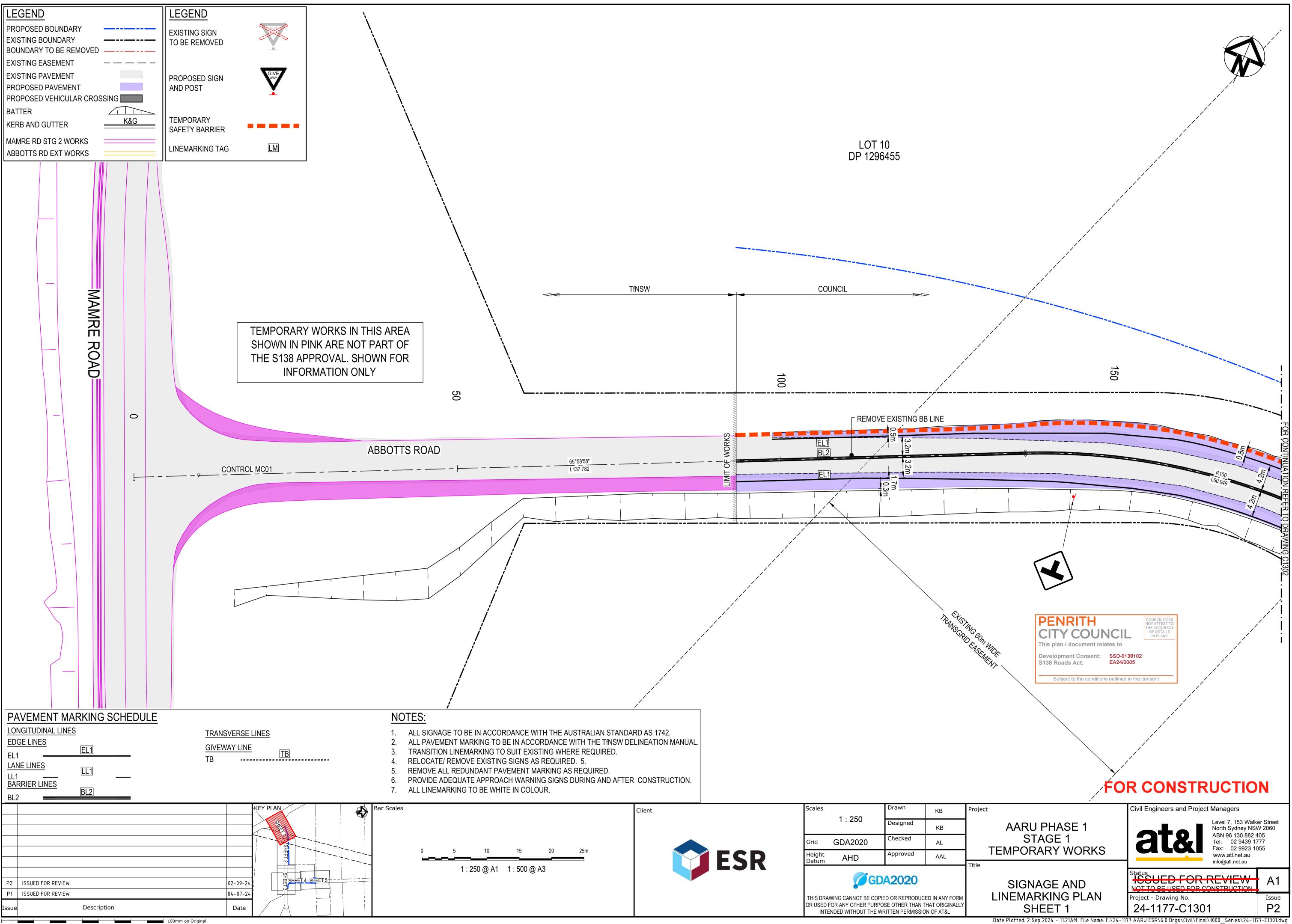
SERVICE TO BE DISUSED — X · X —

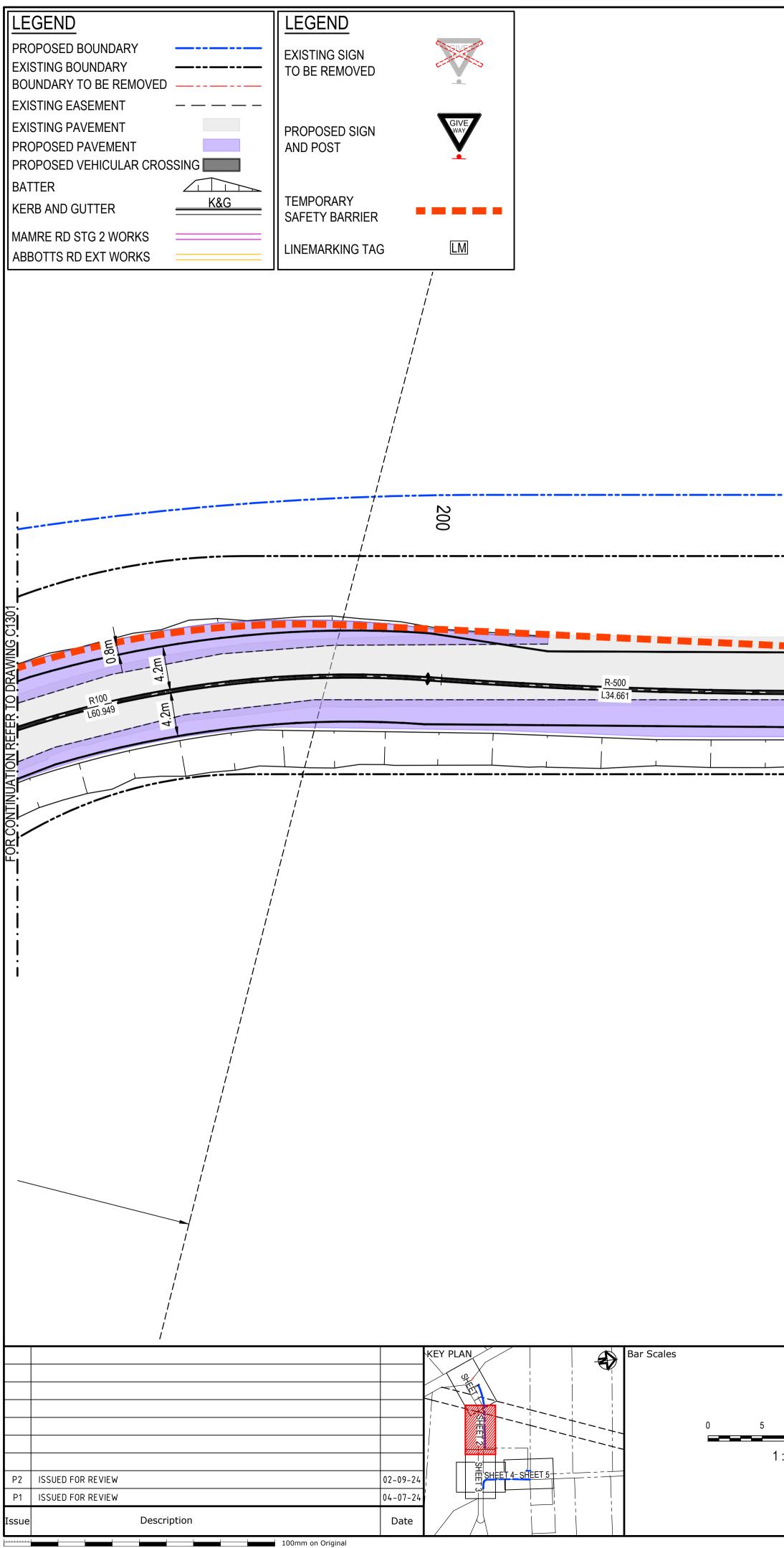
			KEY PLAN Bar Scales 0 5	1
P1 Issue		02-09-24 Date		
L	100mm on Original			











				Client		Scales	4 050	Drawn	KB	Proj
							1 : 250	Designed	KB	1
10	4-		05			Grid	GDA2020	Checked	AL	
10	15	20	25m		ESR	Height Datum	AHD	Approved	AAL	Title
: 250 @ A1	1 : 500 @ .	A3					GD	A2020		
						OR USED	WING CANNOT BE COPIL FOR ANY OTHER PURPC ENDED WITHOUT THE WI	SE OTHER THAN T	HAT ORIGINALLY	

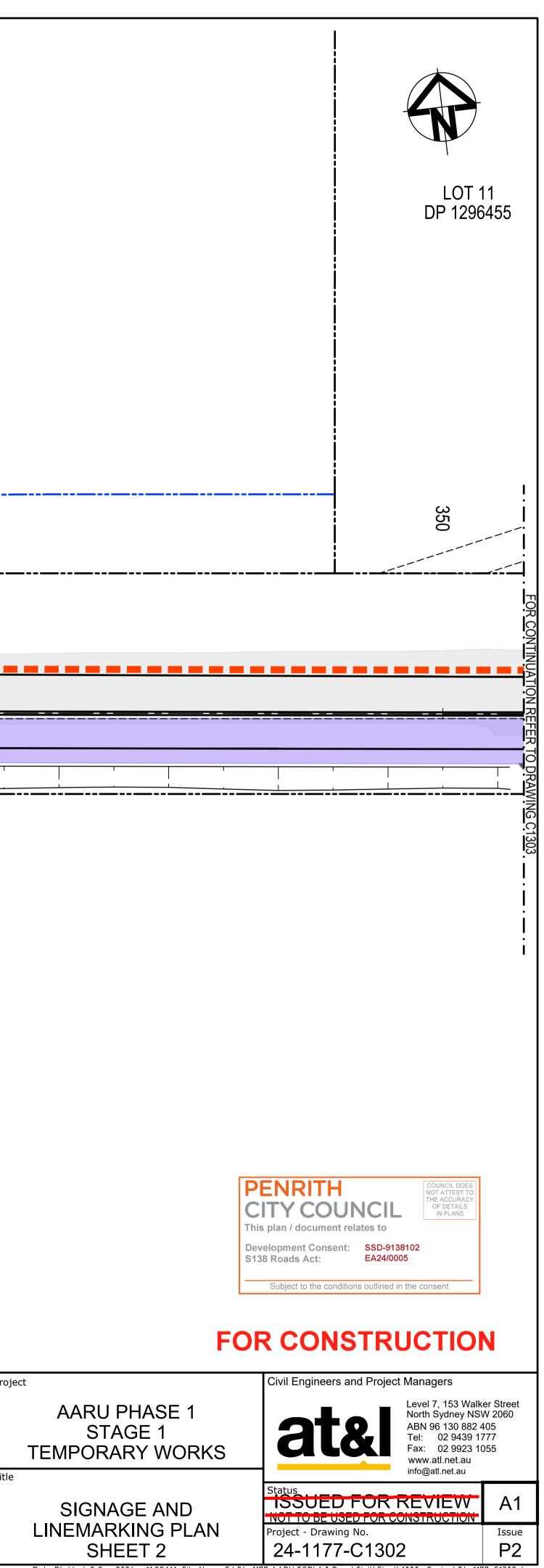
LOT 2 DP 250002

0.5m	ABBOTTS ROAD		
。 3.2m	CONTROL MC01	EL1 BL2	
3.2m	'	EL1	
	0.3		

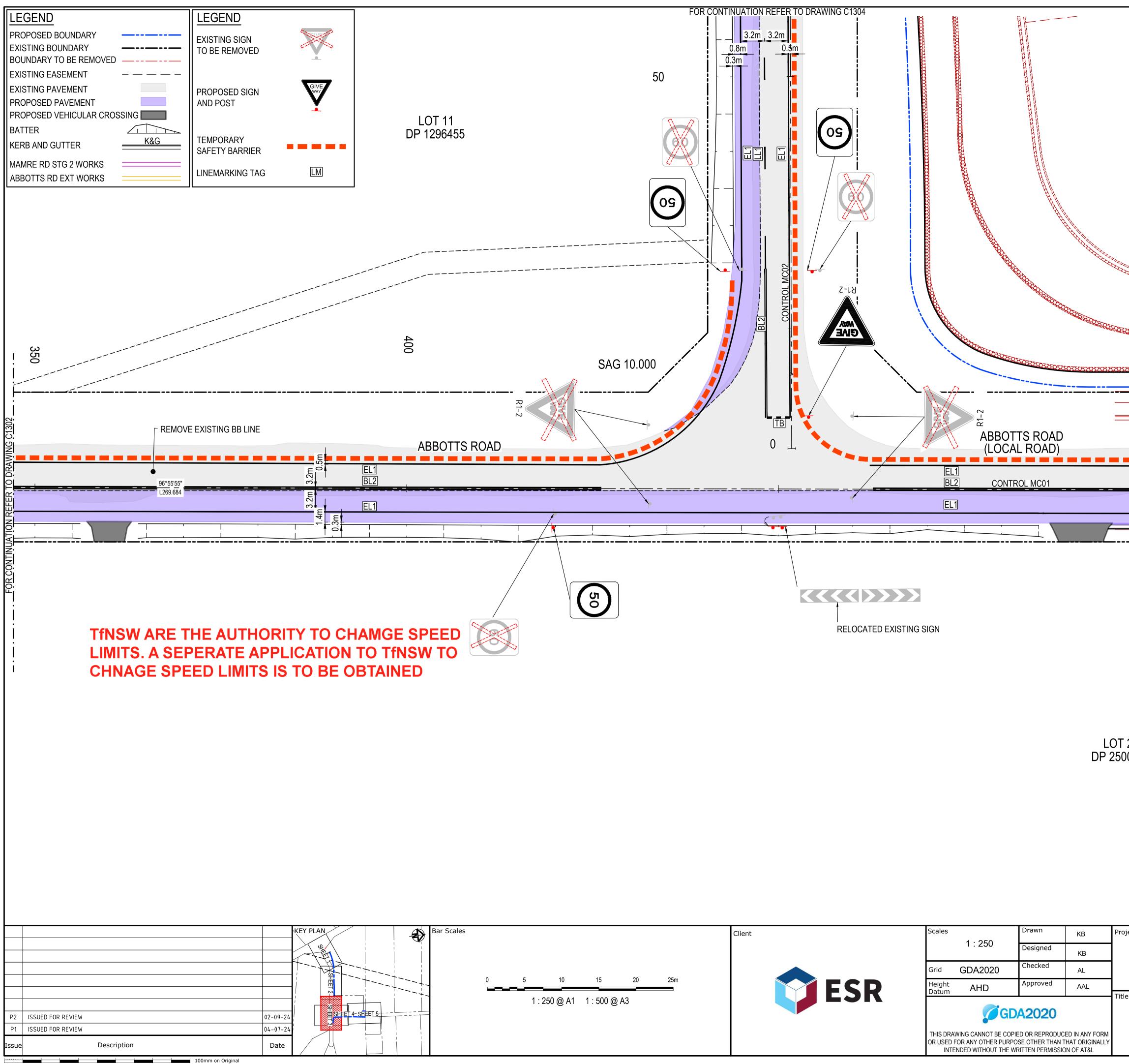
300

LOT 10 DP 1296455

250



Date Plotted: 2 Sep 2024 – 11:22AM File Name: F:\24-1177 AARU ESR\6.0 Drgs\Civil\Final\1000\_Series\24-1177-C1302.dwg



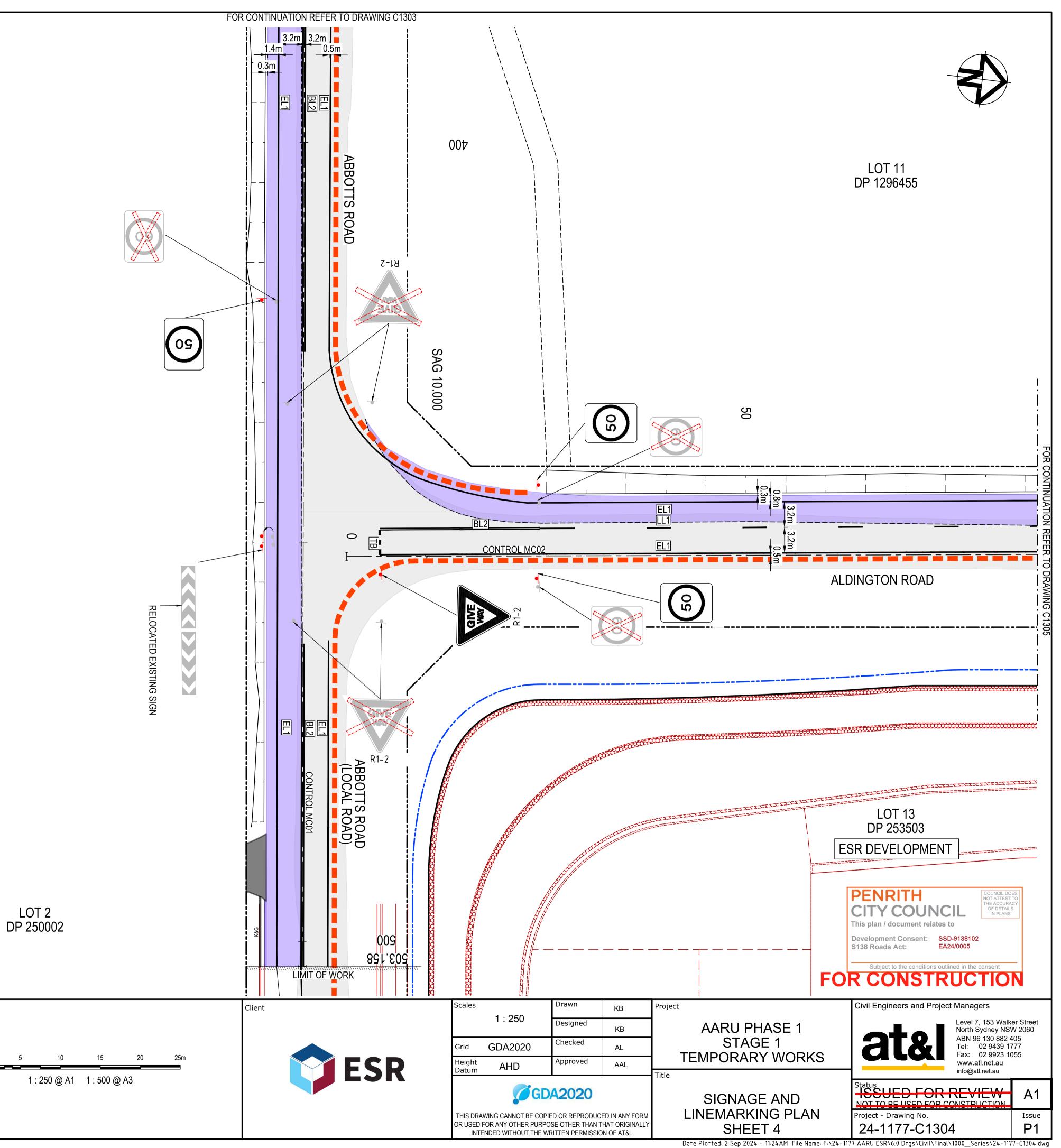
LOT 12 DP 2535 ESR DEVELO	903 PMENT	
		======: CZZCZZ
20222222222222222222222222222222222222	***************************************	<u>15011101</u>
	DEXTENSION WORKS	ਸਤਤਤਸ
ABBOTTS ROAD	NDER SEPARATE APPROVAL	
• 03.158		
TOF		
BL2		
Køc		
	<section-header><section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header></section-header>	
ject	Civil Engineers and Project Managers	
AARU PHASE 1 STAGE 1 TEMPORARY WORKS	Level 7, 153 Walke North Sydney NSW ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au info@atl.net.au	V 2060 05 77
	Status ISSUED FOR REVIEW	A1
LINEMARKING PLAN SHEET 3	Project - Drawing No. 24-1177-C1303	Issue P2

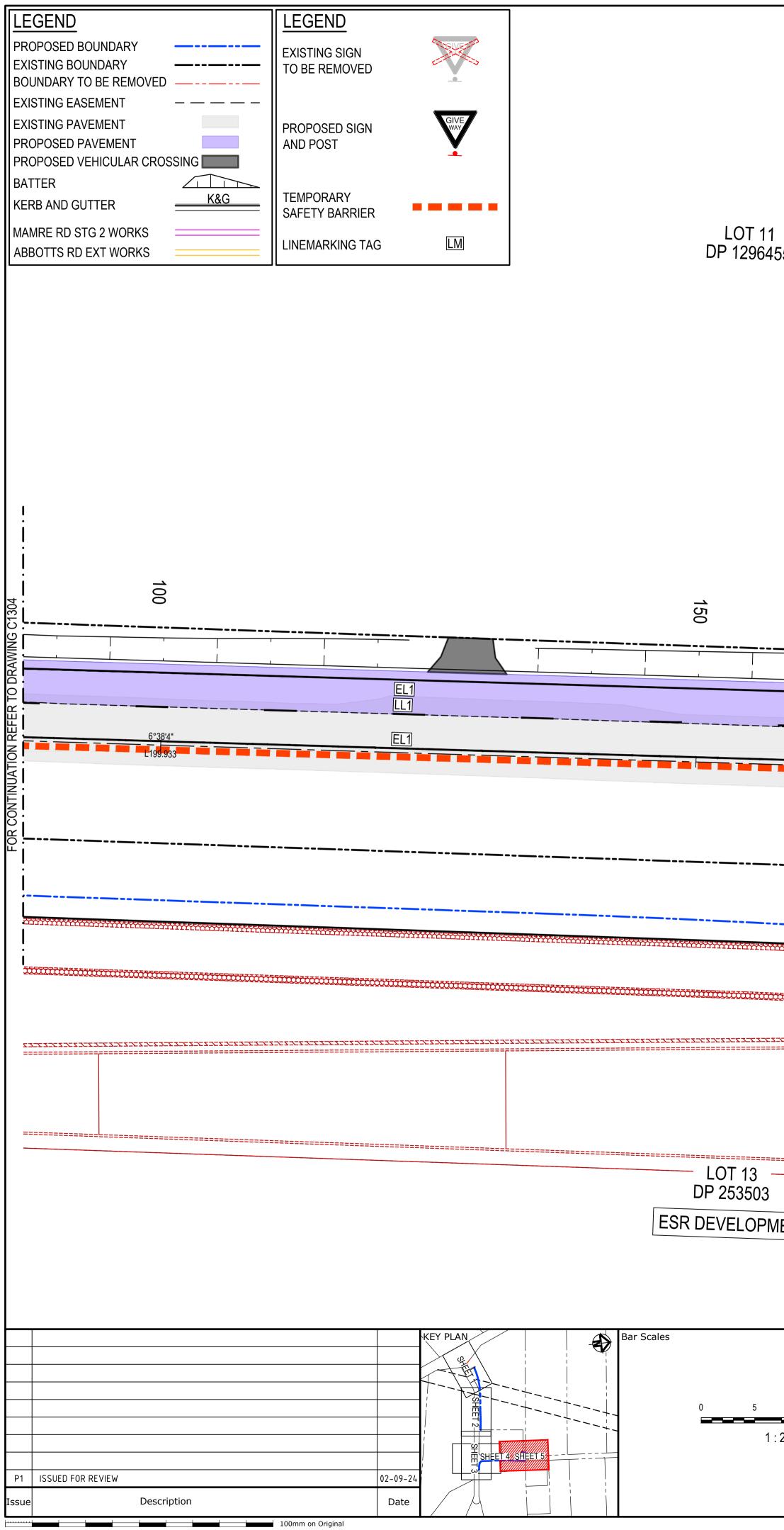
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LEGEND	LEGEND
PROPOSED BOUNDARYEXISTING BOUNDARYBOUNDARY TO BE REMOVED	EXISTING SIGN TO BE REMOVED
EXISTING EASEMENT	
EXISTING PAVEMENT	PROPOSED SIGN
PROPOSED PAVEMENT	AND POST
PROPOSED VEHICULAR CROSSING	-
BATTER	
KERB AND GUTTER <u>K&amp;G</u>	TEMPORARY SAFETY BARRIER
MAMRE RD STG 2 WORKSABBOTTS RD EXT WORKS	LINEMARKING TAG

## **TFNSW ARE THE AUTHORITY TO CHAMGE SPEED** LIMITS. A SEPERATE APPLICATION TO TINSW TO CHNAGE SPEED LIMITS IS TO BE OBTAINED

		KEY PLAN Bar Scales
P1 ISSUED FOR RE	EVIEW	02-09-24
Issue	Description	Date

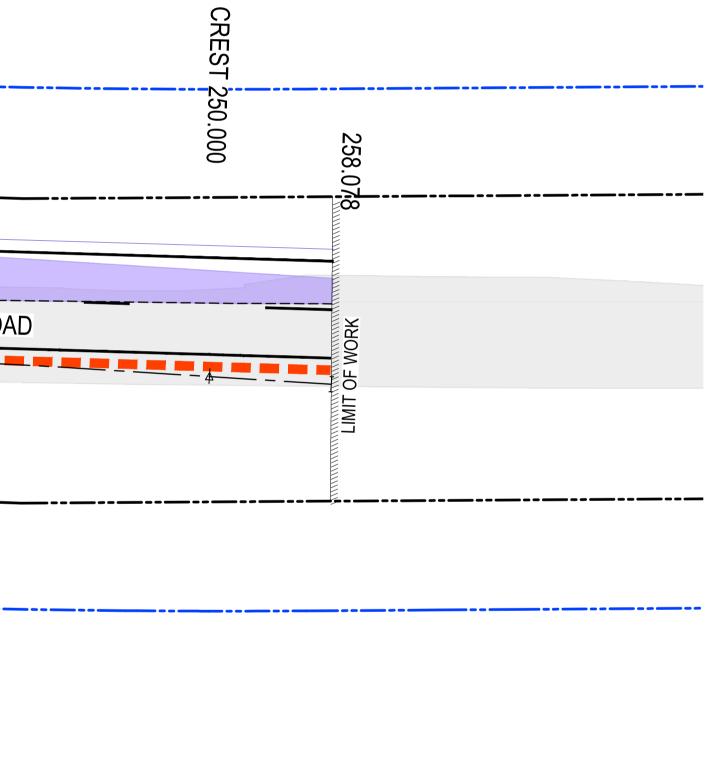


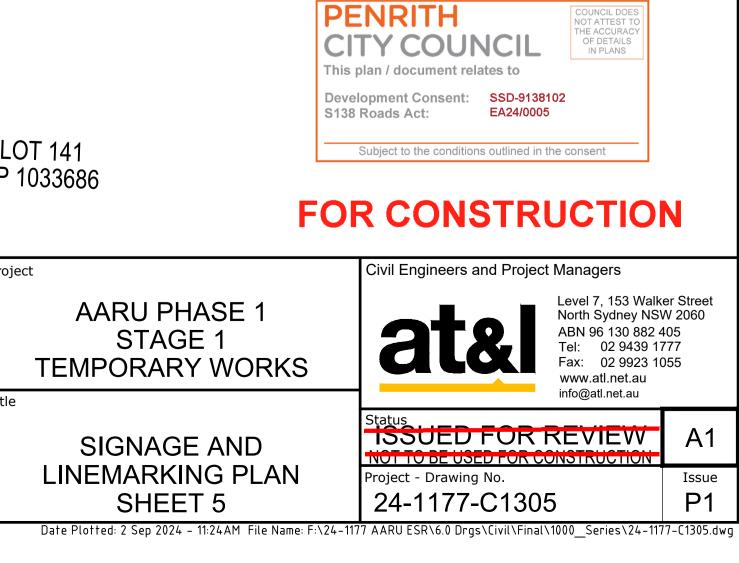


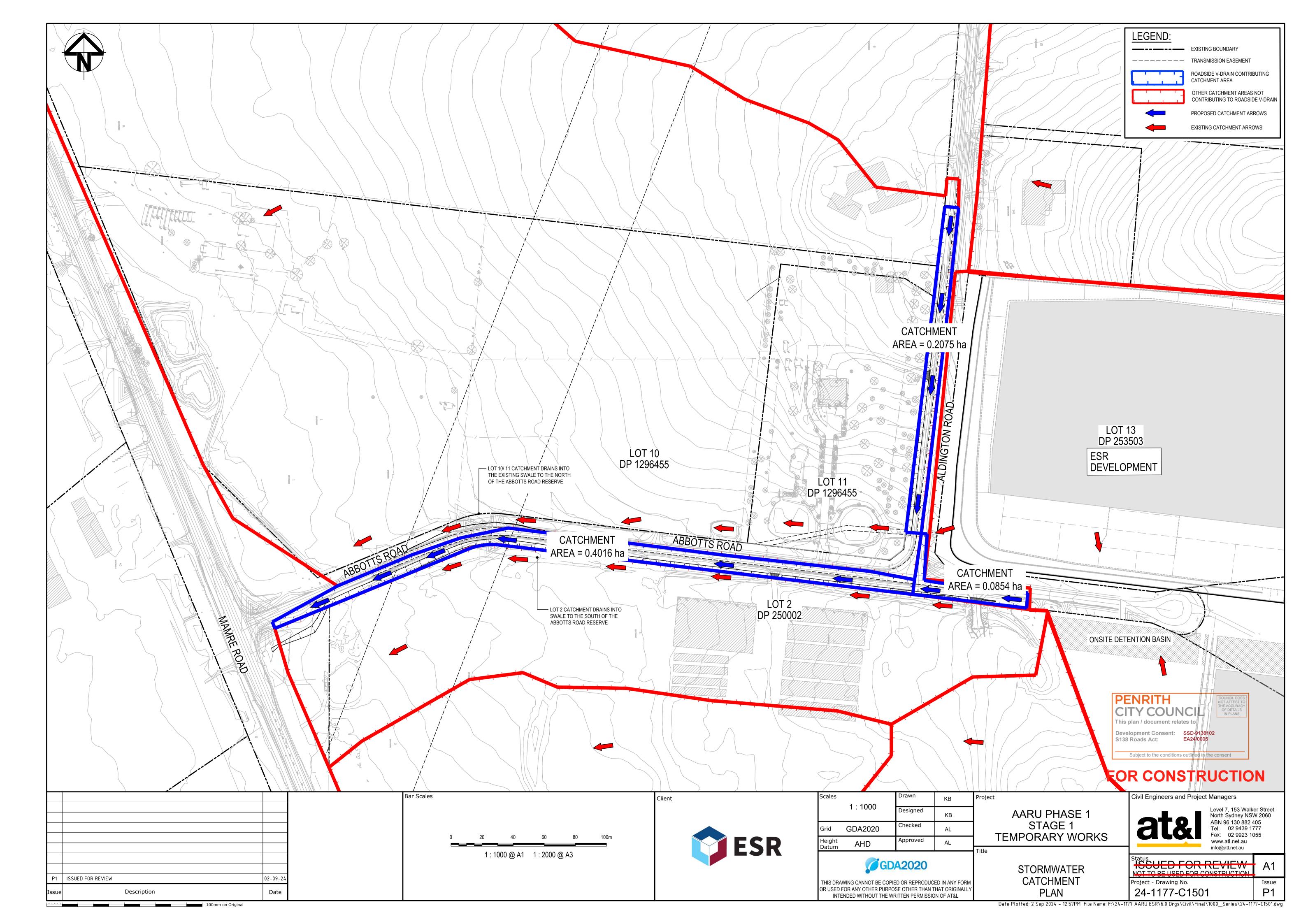
55		TC 199.933 200				
CONTROL MC02	0.5m 0.5m 0.3m 0.3m		EL1 LL1 EL1	 ALD	INGTO 527.513	N ROA
IENT						Lo DP
10 15 20 25m 250 @ A1 1 : 500 @ A3	Client	ESR	Height Datum THIS DRAW	Drawn Designed Checked Approved DA2020	KB KB AL AAL	Proj

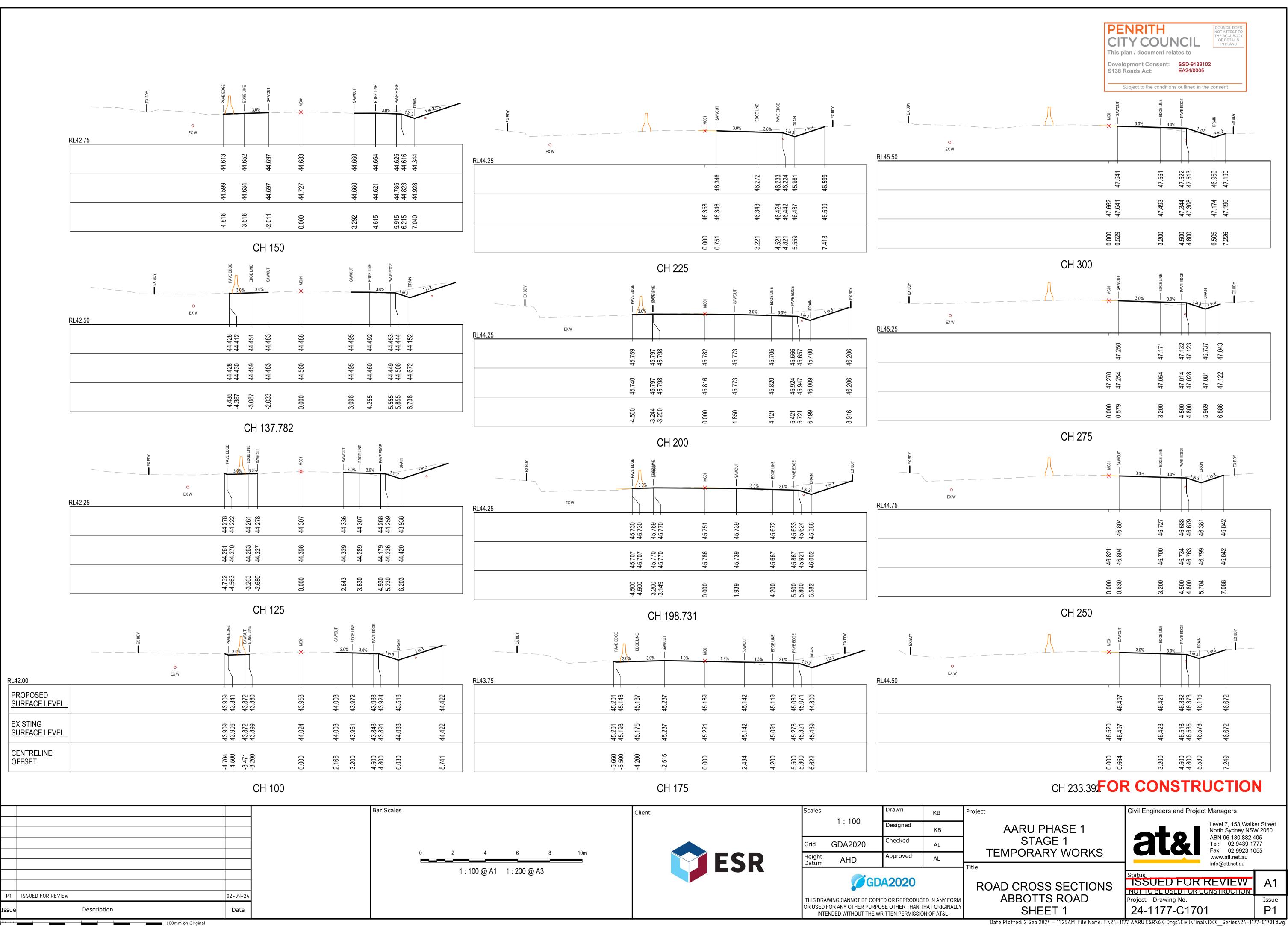


LOT 8 DP 253503





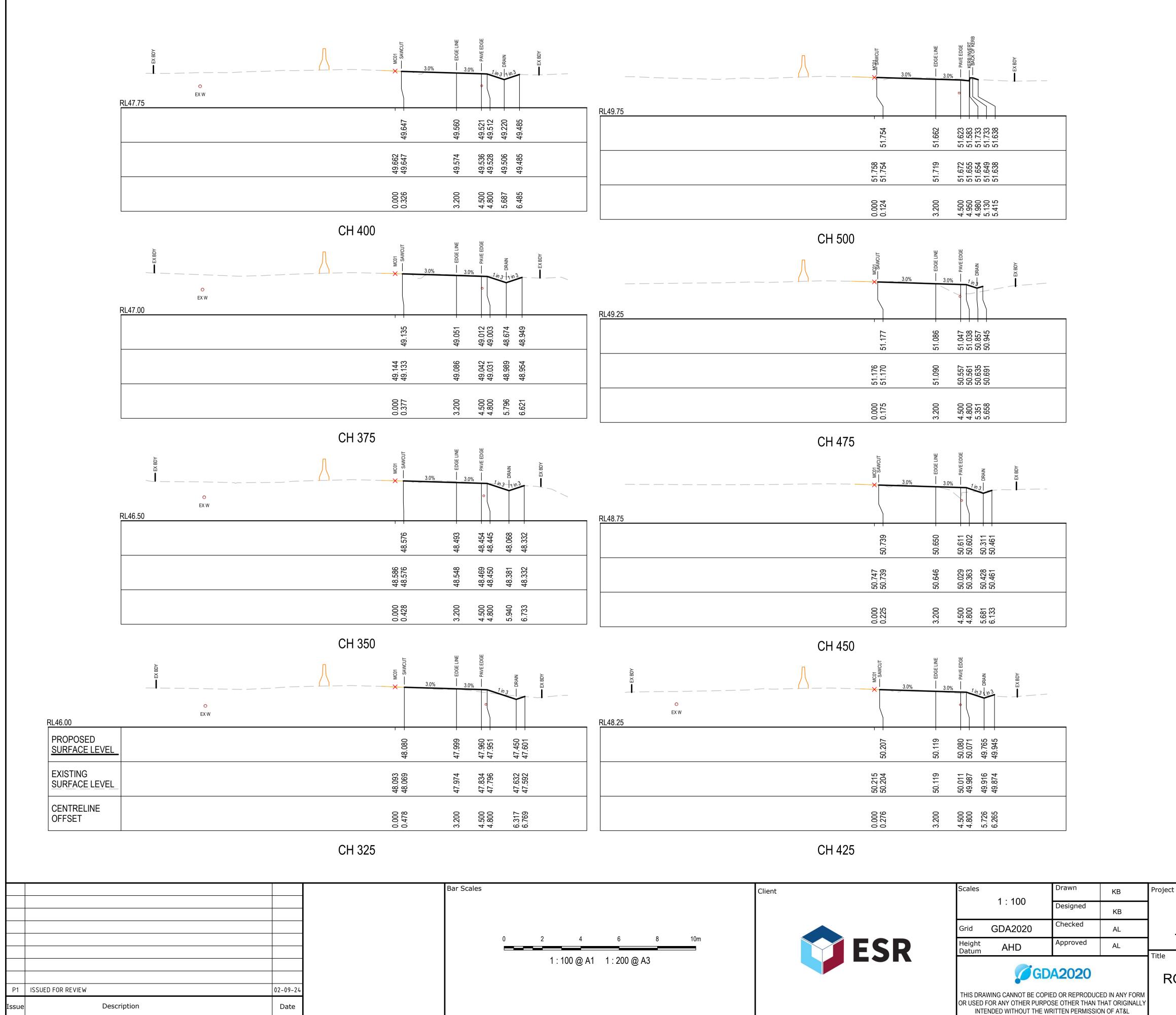




4	6	8	
I · 100 @ A1	1 · 200 @ A	3	

	1.100								
	1 : 100	Designed	KB						
rid	GDA2020	Checked	AL						
eight atum	AHD	Approved	AL	Title					
<b>GDA2020</b>									
HIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM									

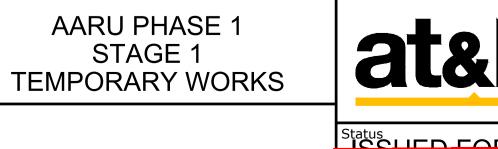
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# FOR CONSTRUCTION

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ROAD CROSS SECTIONS ABBOTTS ROAD SHEET 2

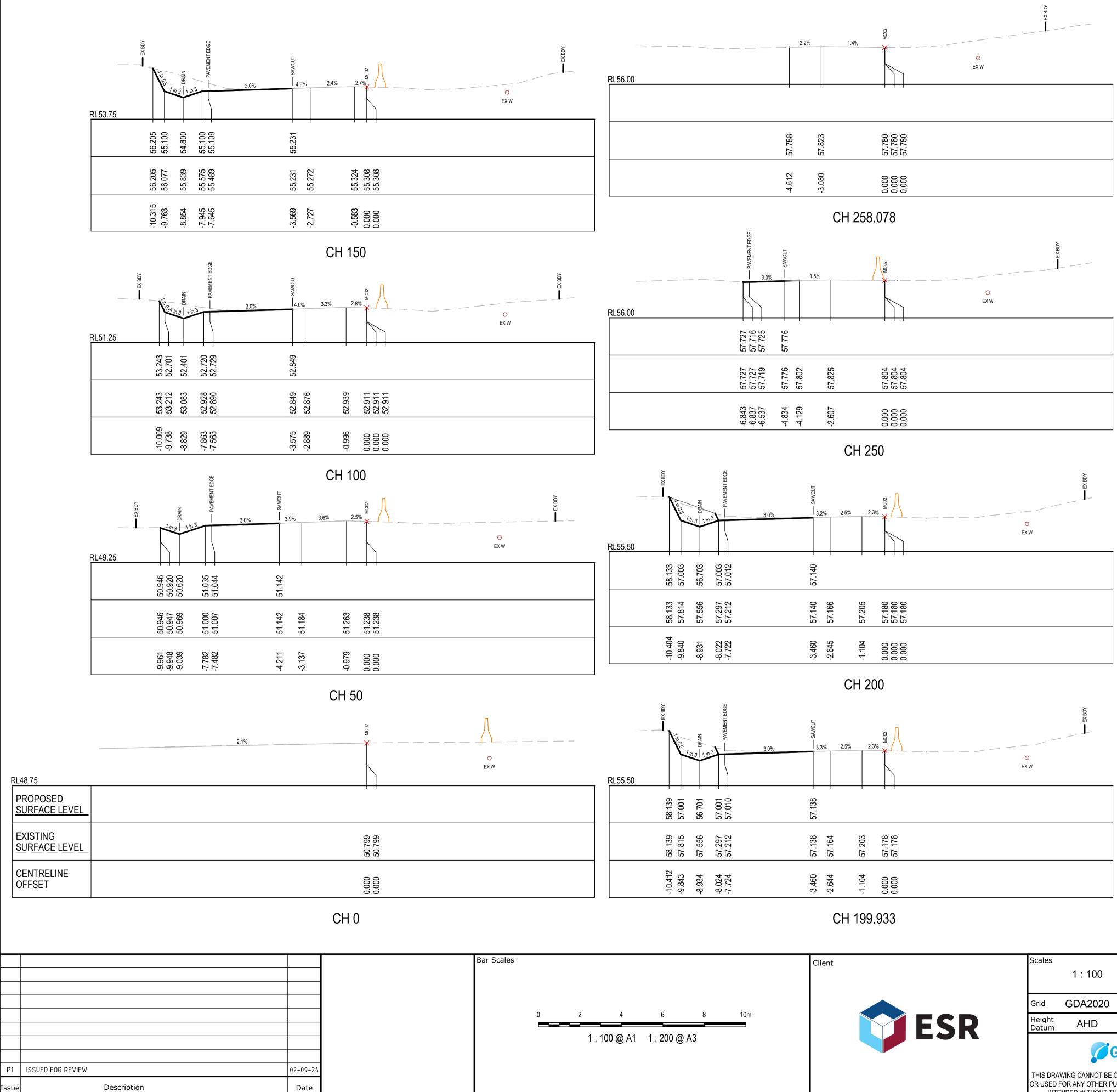
Fax: 02 9923 1055 www.atl.net.au info@atl.net.au Status ISSUED FOR REVIEW NOT TO BE USED FOR CONSTRUCTION A1 Project - Drawing No. Issue 24-1177-C1702 P1

Level 7, 153 Walker Street North Sydney NSW 2060

ABN 96 130 882 405

Tel: 02 9439 1777

Date Plotted: 2 Sep 2024 – 11:26AM File Name: F:\24–1177 AARU ESR\6.0 Drgs\Civil\Final\1000\_Series\24–1177–C1702.dwg



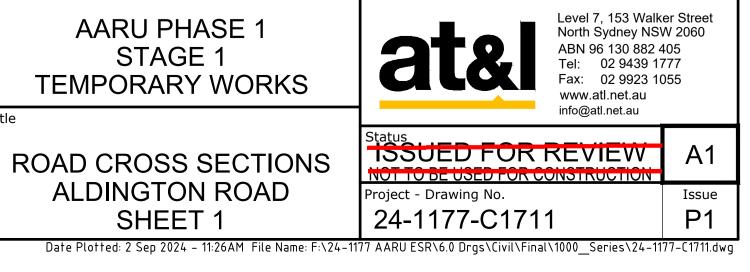
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				Client		Scales	1 . 100	Drawn	КВ	Project
							1 : 100	Designed	КВ	
	0	•	40			Grid	GDA2020	Checked	AL	 Т
4	6	8	10m		ESR	Height Datum	AHD	Approved	AL	Title
l : 100 @ A1	1 : 200 @	A3					GD	A2020		RO
						OR USED	AWING CANNOT BE COPI FOR ANY OTHER PURPC ENDED WITHOUT THE WI	SE OTHER THAN T	THAT ORIGINALLY	



## FOR CONSTRUCTION

Civil Engineers and Project Managers

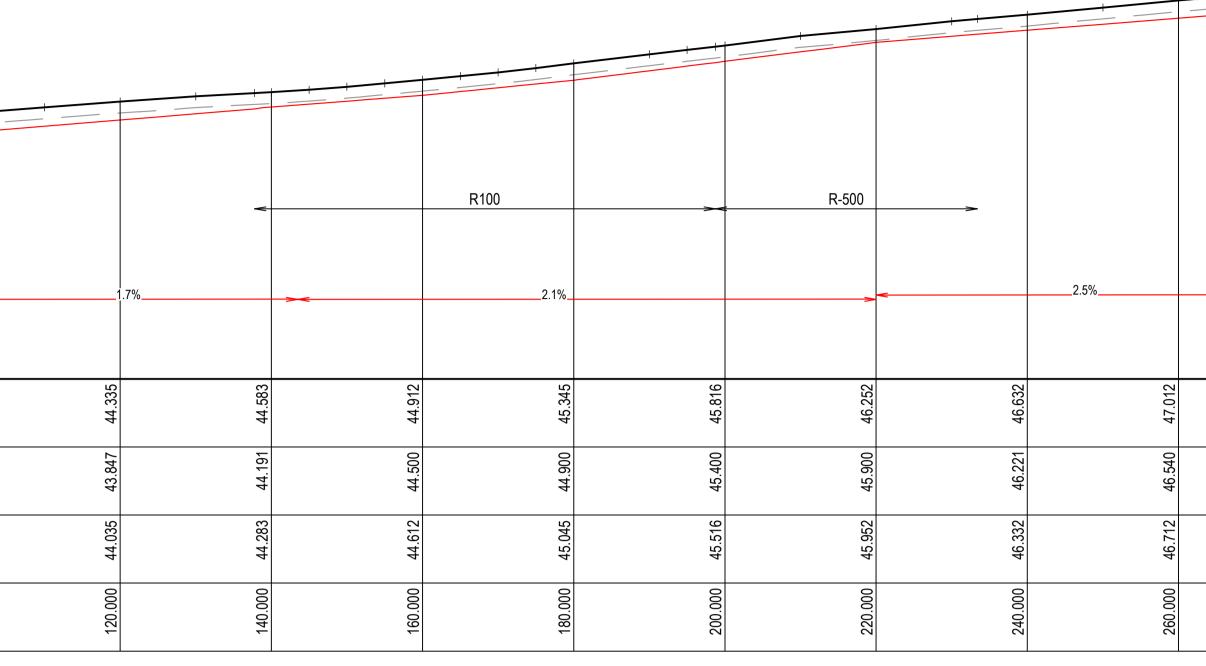


HORIZONTAL							
VC LENGTH							
SWALE GRADE						<	
Datum RL37							
CONTROL LINE SURFACE LEVEL	43.360	43.288	43.500	43.634	43.776		44.024
SWALE INVERT LEVEL							43.516
EXISTING SURFACE LEVEL	43.060	42.988	43.200	43.334	43.476		43.724
CHAINAGE	0.000	20.000	40.000	60.000	80.000		100.000

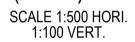
HORIZONTAL VC LENGTH SWALE GRADE							
VC LENGTH		2.0%		2.8%			
SWALE GRADE	5	<	~~~	~~~~>	<		
Datum RL41							
CONTROL LINE SURFACE LEVEL	47.662	48.009	48.395	48.830	49.248	49.662	
SWALE INVERT LEVEL	46.950	47.350	47.789	48.347	48.783	49.220	
EXISTING SURFACE LEVEL	47.362	47.709	48.095	48.530		49.362	
CHAINAGE	300.000	320.000	340.000	360.000	380.000	400.000	

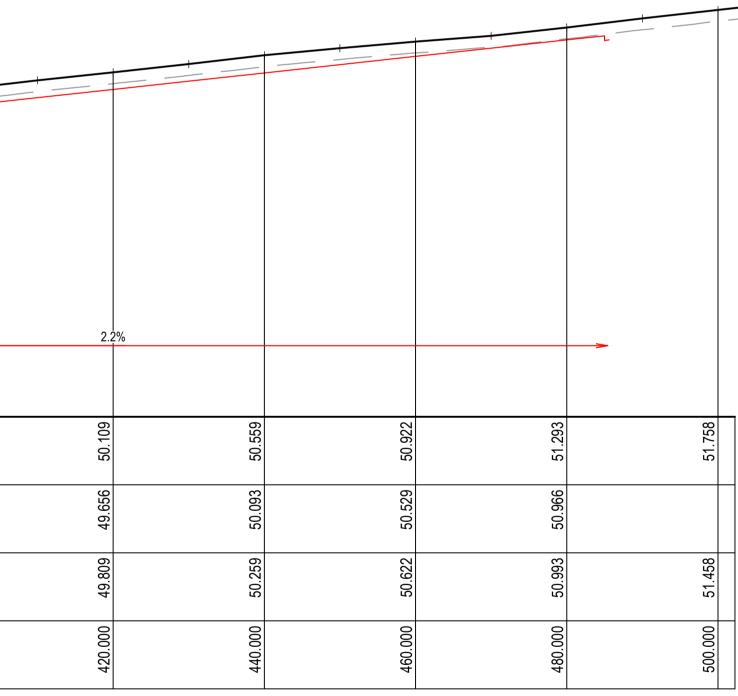
#### ABBOTTS RD SWALE (MC01) LONGITUDINAL SECTION SCALE 1:500 HORI. 1:100 VERT.

		Bar Scales			Seales		Drawn		
		Dai Scales		Client	Scales		Drawn	KB	Project
					P	AS SHOWN	Designed	КВ	
		0 10	20 30 40 50m		Grid	GDA2020	Checked	AL	] _
		1 :	500 @ A1 1 : 1000 @ A3	FSR	Height Datum	AHD	Approved	AL	Title
		0 2	4 6 8 10m			GO	A2020		
P1 ISSUED FOR REVIEW	02-09-24	1:	: 100 @ A1 1 : 200 @ A3		THIS DRAV			ED IN ANY FORM	
Issue Description	Date				OR USED FO	OR ANY OTHER PURPO	SE OTHER THAN TH	HAT ORIGINALLY	
100mm on Original									



ABBOTTS RD SWALE (MC01) LONGITUDINAL SECTION

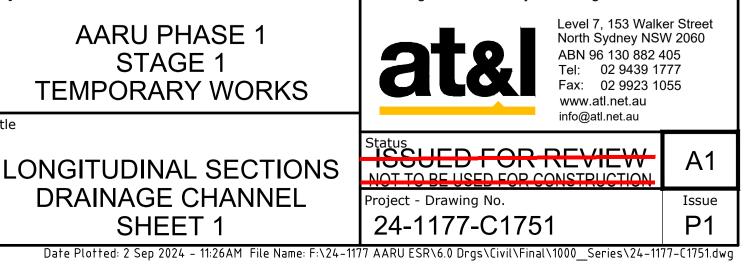




				ł
				FOR CONTINUATION REFER BELOW
		1.0%		8
~~~>			>	FOR
	47.353		46.950 47.662	
	47.053 46.775 47.353			
			47.362	
	280.000		300.000	



Civil Engineers and Project Managers

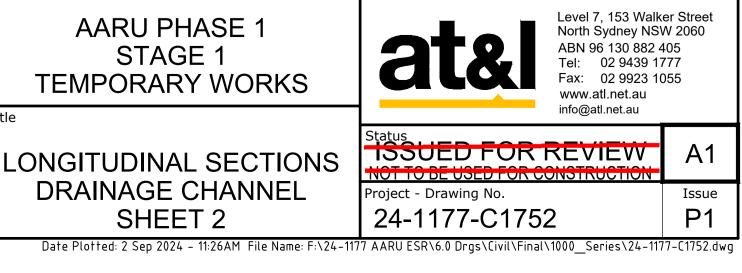


			Bar Scales		
				0	10
					1:{
					1.3
				0	2
P1	ISSUED FOR REVIEW	02-09-24			1:
Issue	Description	Date			
<u> </u>	100mm on Original	•			

#### ALDINGTON ROAD SWALE (MC02) LONGITUDINAL SECTION SCALE 1:500 HORI. 1:100 VERT.

		<u> </u>										
HORIZONTAL										<	R1	1527.513
VC LENGTH												
GRADE			<	2.7%	~~~		4.1%			>		
itum RL44												
OPOSED RFACE LEVEL	50.799	50.796	51.025	51.511	52.102	52.911	53.871 54.850	55.746	56.553	57.180	57.553	57.775
VALE LONGSECTION	_		50.352	50.890	51.574	52.401	53.229 54.358	55.314	56.121			
KISTING JRFACE LEVEL	50.499	50.496	50.725	51.211	51.802	52.611	53.571 53.571 54.550	55.446	56.253	56.880	57.253	57.475
IAINAGE	000.0	20.000	40.000	60.000	80.000	100.000	120.000	160.000	180.000	200.000	220.000	240.000

				Client		Scales		Drawn	КВ	Project
							AS SHOWN	Designed	КВ	1
20	30	40	50m			Grid	GDA2020	Checked	AL	1.
500 @ A1	1 : 1000 @	A3			ESR	Height Datum	AHD	Approved	AL	Title
4	6	8	10m				Ger	)A2020		
: 100 @ A1	1 : 200 @ A	43								LO
						OR USED	AWING CANNOT BE COP FOR ANY OTHER PURP ENDED WITHOUT THE V	OSE OTHER THAN	THAT ORIGINALLY	



FOR CONSTRUCTION

Development Consent: SSD-9138102 S138 Roads Act: EA24/0005

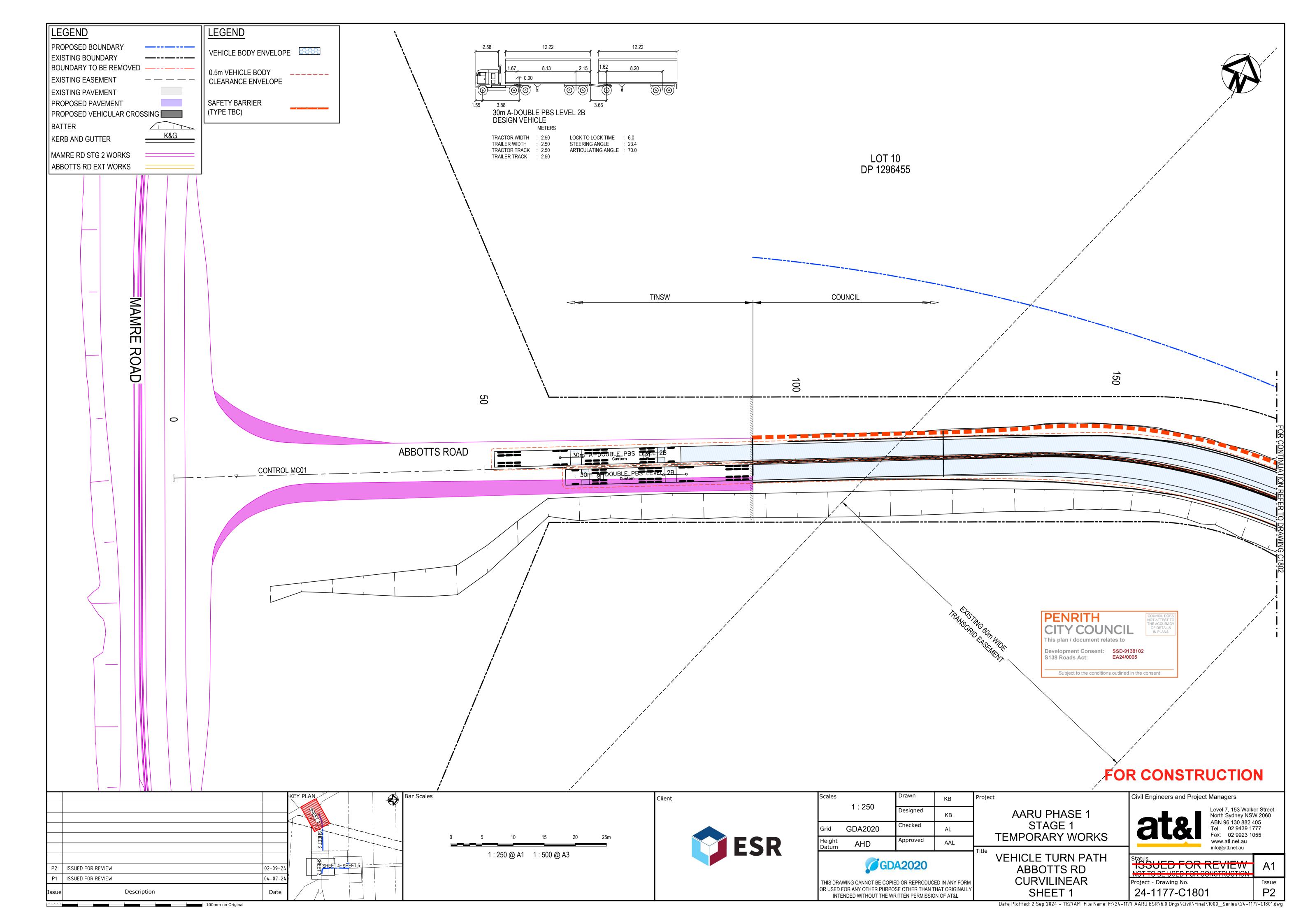
PENRITH

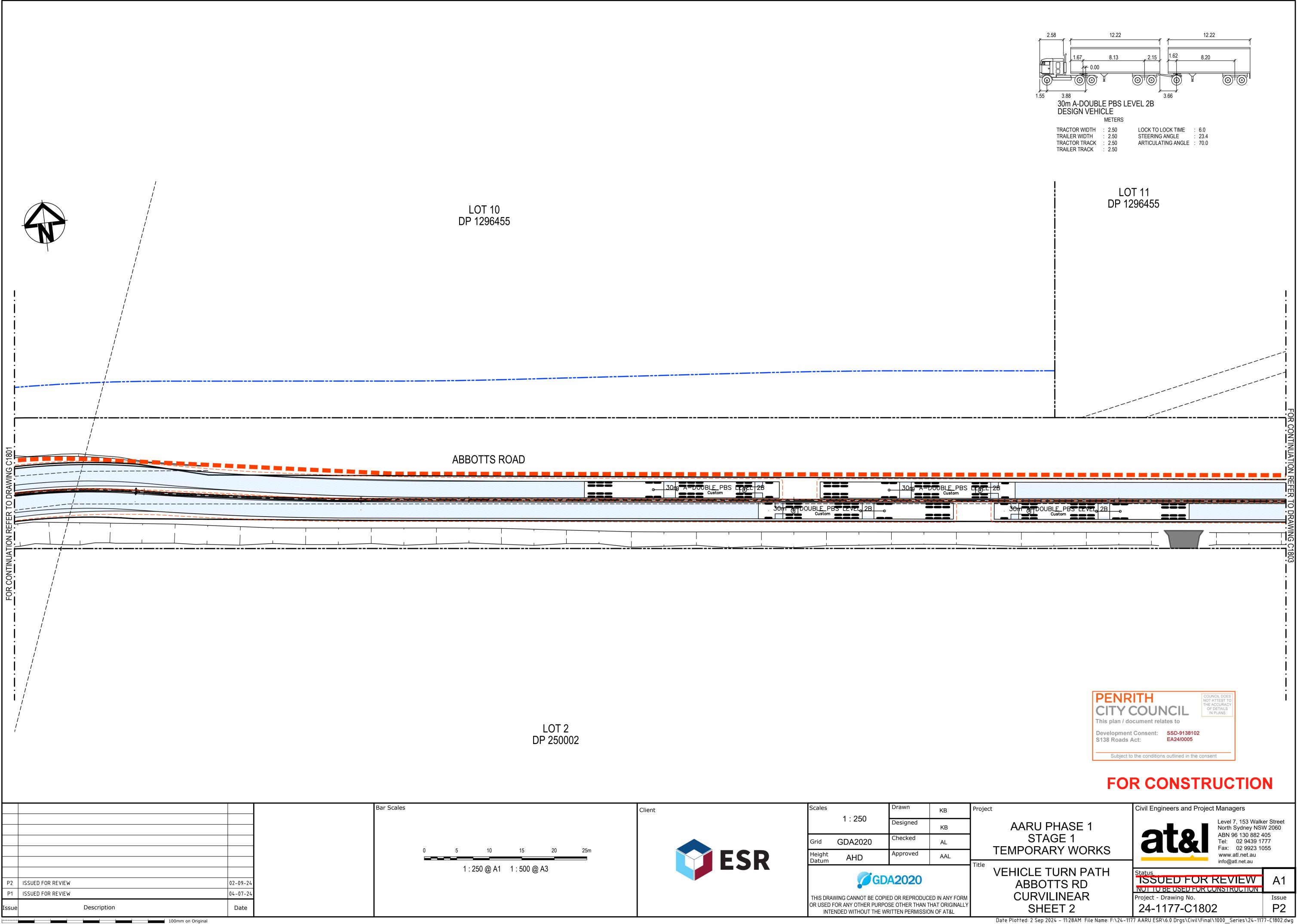
CITY COUNCIL This plan / document relates to

Civil Engineers and Project Managers

Subject to the conditions outlined in the consent

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS





G 30mg A DOUBLE PBS LEGEL 2B Custom Custom Custom	



