

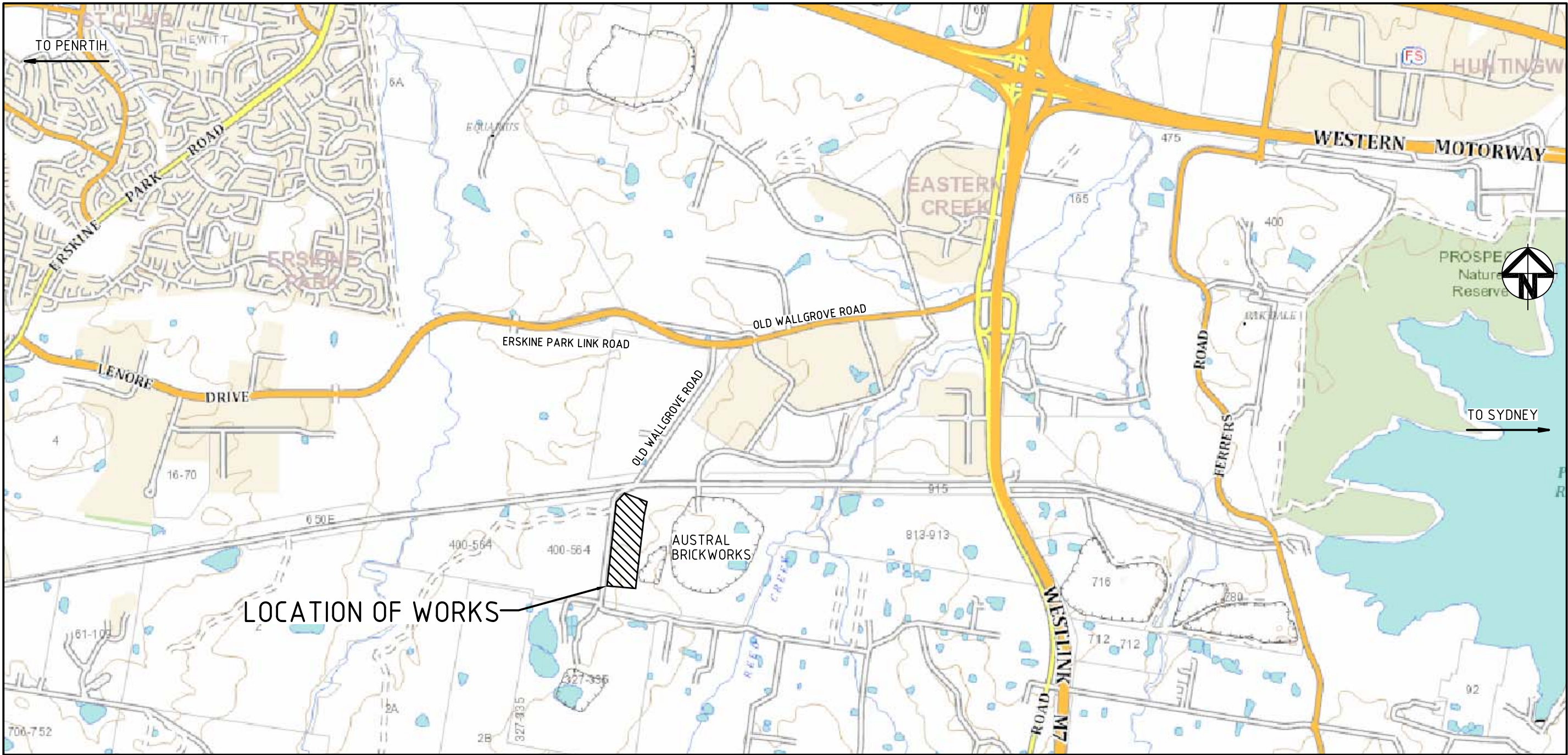
OLD WALLGROVE ROAD UPGRADE

AUSTRAL ACCESS WORKS

CIVIL WORKS PACKAGE

DRAWING LIST

DWG No.	DRAWING TITLE
C501	COVER SHEET
C502	GENERAL NOTES AND LEGENDS SHEET
C503	TYPICAL SECTIONS SHEET
C505	TYPICAL DETAILS SHEET 1
C506	TYPICAL DETAILS SHEET 2
C510	GENERAL ARRANGEMENT PLAN
C511	SITWORKS PLAN SHEET 1
C512	SITWORKS PLAN SHEET 2
C515	ROADWORKS LONGITUDINAL SECTIONS
C531	PAVEMENT PLAN SHEET 1
C532	PAVEMENT PLAN SHEET 2
C541	SIGNAGE AND LINEMARKING PLAN SHEET 1
C542	SIGNAGE AND LINEMARKING PLAN SHEET 2
C551	SERVICES AND UTILITIES COORDINATION PLAN SHEET 1
C552	SERVICES AND UTILITIES COORDINATION PLAN SHEET 2
C561	STORMWATER DRAINAGE DETAILS SHEET 1
C565	STORMWATER DRAINAGE LONGITUDINAL SECTION



LOCALITY PLAN
NTS

		Bar Scales	THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	Client BRICKWORKS LIMITED	Scales NTS Grid Height Datum AHD	Drawn JB Designed JB Checked PW Approved	Project OLD WALLGROVE ROAD UPGRADE AUSTRAL ACCESS	Civil Engineers and Project Managers				
								at&l Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au				
B	ISSUE FOR SSDA APPROVAL	12-12-14					Title		Status FOR APPROVAL		A1	
A	ISSUE FOR TENDER	25-11-14					COVER SHEET		NOT TO BE USED FOR CONSTRUCTION			
Issue		Description		Date				Drawing No. C501		Project No. 13-129		Issue B

- ORIGIN OF LEVELS. - REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO A & L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. 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 A.S 1289 5.2.1.
(OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 (UNBOUND), RMS. 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 50m³ OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF A & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. 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.

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY HARD & FORESTER, 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.

IF ANY 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.

THIS PLAN IS PREPARED FOR A COMBINATION OF FIELD SURVEY AND EXISTING RECORDS FOR THE PURPOSE OF DESIGNING NEW CONSTRUCTIONS ON THE LAND AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.

THE TITLE BOUNDARIES SHOWN HEREON WERE NOT MARKED BY THE AUTHOR AT THE TIME OF SURVEY AND HAVE BEEN DETERMINED BY PLAIN DIMENSIONS ONLY AND NOT BY FIELD MEASUREMENT.

-  STOP VALVE
-  HYDRANT
-  SEWER MANHOLE
-  GULLY PIT
-  INVERT
-  TELEPHONE CABLE MARKER
-  GAS PIPELINE MARKER HIGH PRESSURE
-  REFLECTIVE BOLLARD
-  POWER POLE
-  TELEPHONE TWIN PIT
-  UNIDENTIFIED SERVICE
-  LIGHT POLE
-  SIGN
-  TREE SPREAD
-  TREE STUMP
-  ANCHOR POINT
-  DRAINAGE MANHOLE
-  TELEPHONE SINGLE PIT
-  TELEPHONE TRIPLE PIT

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 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 CORC 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.

BROOMED FINISH ON ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.

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 600mm WIDE U.N.O.

EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.

EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

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 & I, I 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.

1. ORIGIN OF LESIONS: REFER SURVEY NOTES
2. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD DRY DENSITY (AS 1289 E 5.1.1)
UNDER BUILDING SLABS	
ON GROUND	98%
UNDER ROADS AND CARPARKS	
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	98%
5. FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.
6. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER).
7. FREQUENCY OF COMPACTATION TESTING SHALL BE NOT LESS THAN --
 - (A) 1 TEST PER 200m² OF FILL PLACED PER 300 LAYER OF FILL.
 - (B) 3 TESTS PER VISIT
 - (C) 1 TEST PER 1000m² OF EXPOSED SUBGRADE
 TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS 3798 (1996).
8. FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS
9. NO FILLING SHALL TAKE PLACE TO EXPOSE SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF AT & L AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

2. 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 F _c 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

3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.

4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.

5. 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 WILL 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.T.A. SPECIFICATION R83.

7. REINFORCEMENT SYMBOLS:

N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N

SL DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302

R DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

NUMBER OF BARS IN GROUP BAR GRADE AND TYPE

17 N 20 250

NOMINAL BAR SIZE IN mm SPACING IN mm

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

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

STORMWATER DESIGN CRITERIA:

- (A) AVERAGE RECURRENT INTERVAL:
120 YEARS MAJOR STORM / OVERLAND FLOW
120 YEARS MINOR STORM / PIPED DRAINAGE
- (B) RAINFALL INTENSITIES:
TIME OF CONCENTRATION: 5 MINUTES
100 YEARS = 219 mm/hr
120 YEARS = 168 mm/hr
- (C) RUNOFF COEFFICIENTS:
ROAD RESERVE: $\frac{C_{20}}{C_{100}} = 0.92$
 $\phant{\text{ROAD RESERVE:}} = 1.0$

PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' 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.

PIPES TO BE INSTALLED TO TYPE HS3 (ROAD) HS2 (LOTS) SUPPORT IN ACCORDANCE WITH AS 3725 (1989) 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 CONJECTED IN 50mm 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).

PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.

ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE FABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

WHERE SUBSOL DRAINAGE PASSES 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.

ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500 3 TABLE 8.2.

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 SUPERINTENDING/ENGINEER FOR FURTHER DIRECTIONS.

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:
 - a. LOCAL AUTHORITY REQUIREMENTS
 - b. EPA REQUIREMENTS
 - c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
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.

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:

- (A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
- (D) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
- (E) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

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.

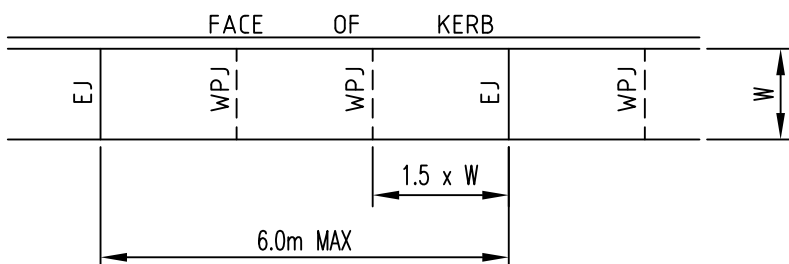
9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS,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

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:

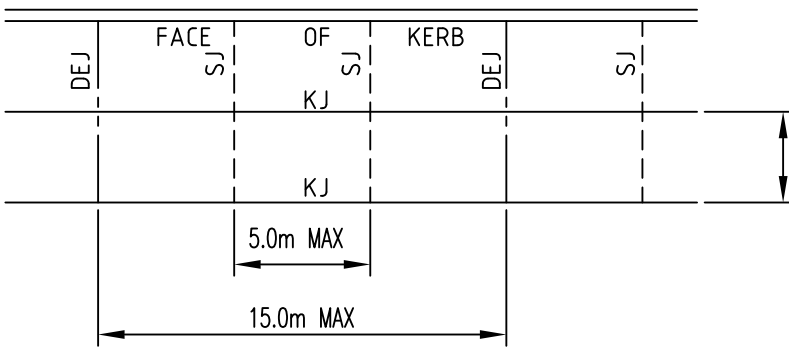
- (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
- (B) ENSURING THAT NOTHING IS NAILED TO THEM
- (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
 - (I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 15 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER 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.

ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O)
EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT
POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF
15 x WIDTH OF THE PAVEMENT.
WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING
AND OR ADJACENT PAVEMENT JOINTS.
PEDESTRIAN PAVEMENT JOINT DETAIL.



ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O)

- KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES
- SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 30.0m CENTRES
- VEHICULAR PAVEMENT JOINT DETAIL.



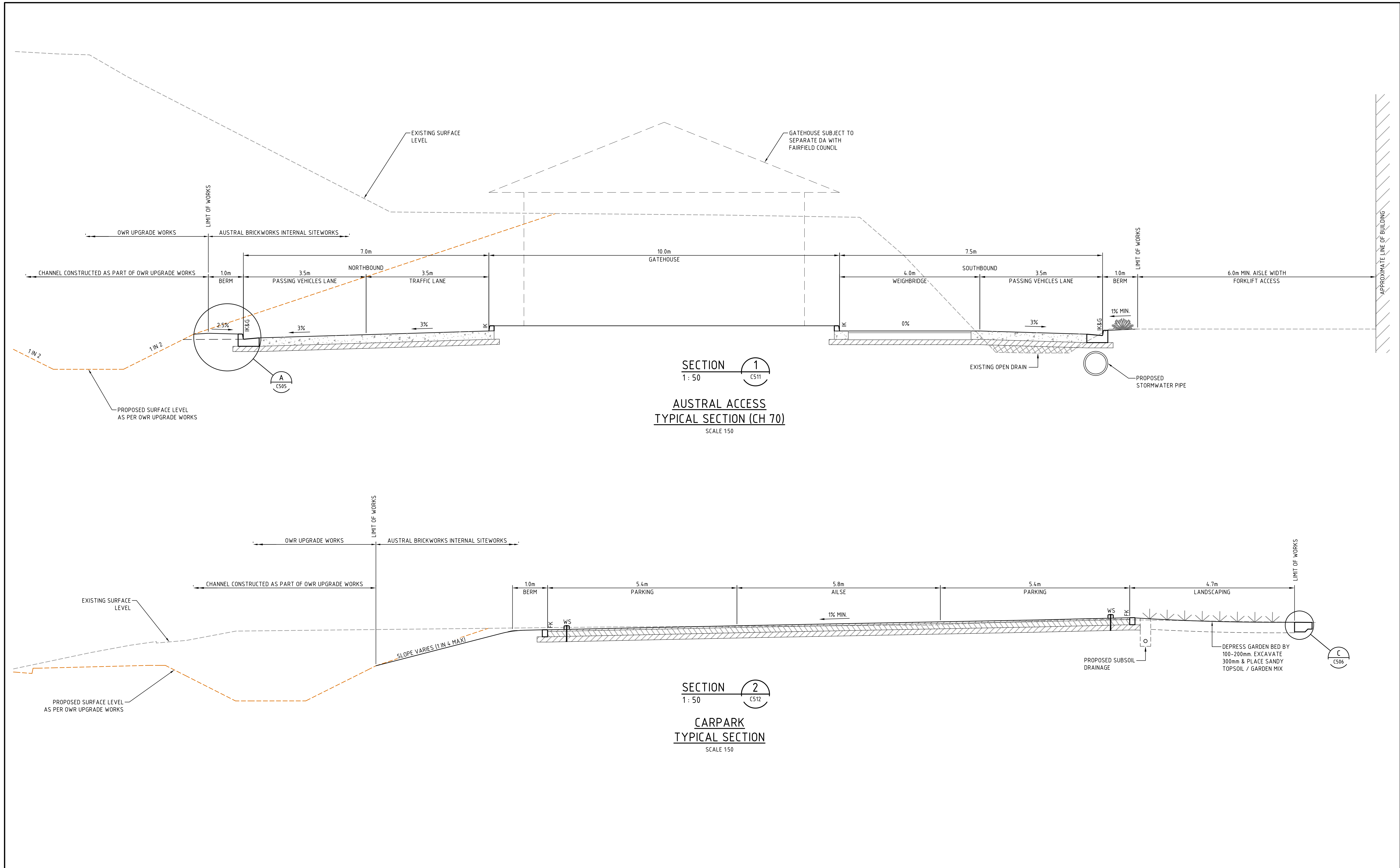
	CONTOUR
	FENCE
	TREE
	TREE (TO BE REMOVED)
	BOUNDARY
	BOUNDARY (TO BE REMOVED)
	PROPOSED
	PROPOSED OWR UPGRADE WORKS
	PROPOSED BOUNDARY
	PROPOSED CONTOUR (0.1m INTERVAL)
	PROPOSED SURFACE LEVEL
	PAVEMENT SAWCUT
	INTEGRAL KERB AND GUTTER
	INTEGRAL KERB
	FLUSH KERB
	VEHICLE CROSSING
	FENCE
	GATE
	WHEEL STOP
	PROPOSED LIGHTPOLE
	BOLLARD
	STORMWATER PIT WITH GRATE AND LINE
	uPVC STORMWATER PIPE

PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO UNDERTAKE SURVEY OF THE EXISTING STORMWATER DRAINAGE & SEWAGE INFRASTRUCTURE WITHIN THE AUSTRAL BRICKWORKS SITE TO IDENTIFY AND CONFIRM THE SIZE, LEVEL AND LOCATION ALL ROOF DRAINAGE DOWNPIPES AND ALL IN-GROUND STORMWATER DRAINAGE PIT STRUCTURES AND PIPES WITHIN THE UPSTREAM CATCHMENT OF THE WORKS

CONTRACTOR SHALL CALL;
DIAL BEFORE
YOU DIG 1100
PRIOR TO COMMENCEMENT OF WORK
TO OBTAIN ALL CURRENT SERVICE
AUTHORITY PLANS



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						NTS	Designed	JB					
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A	ISSUE FOR TENDER	25-11-14											
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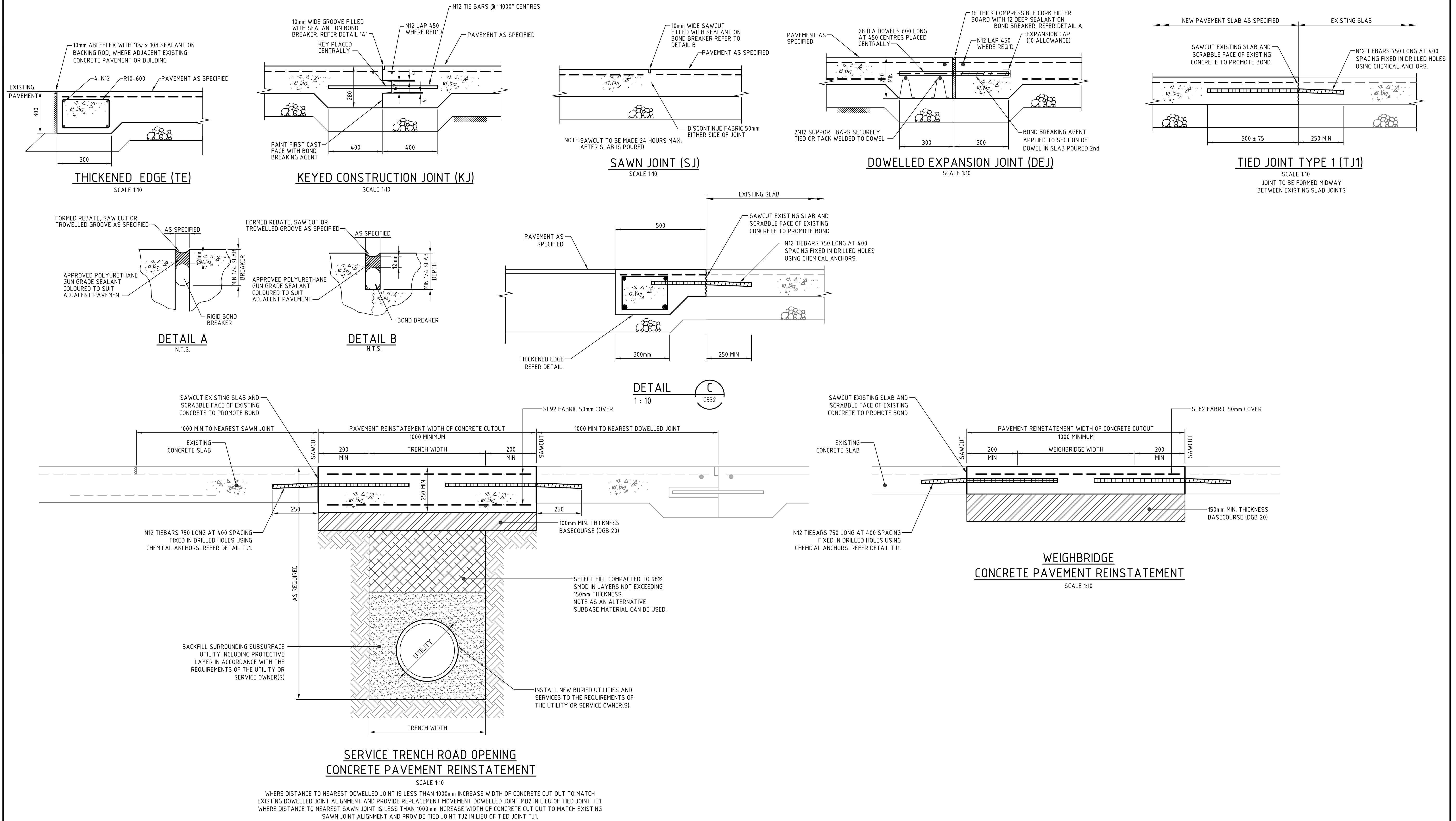
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Issue	Description	Date									



100mm on Original

E:\13-129 QWB Upgrade\Drgs

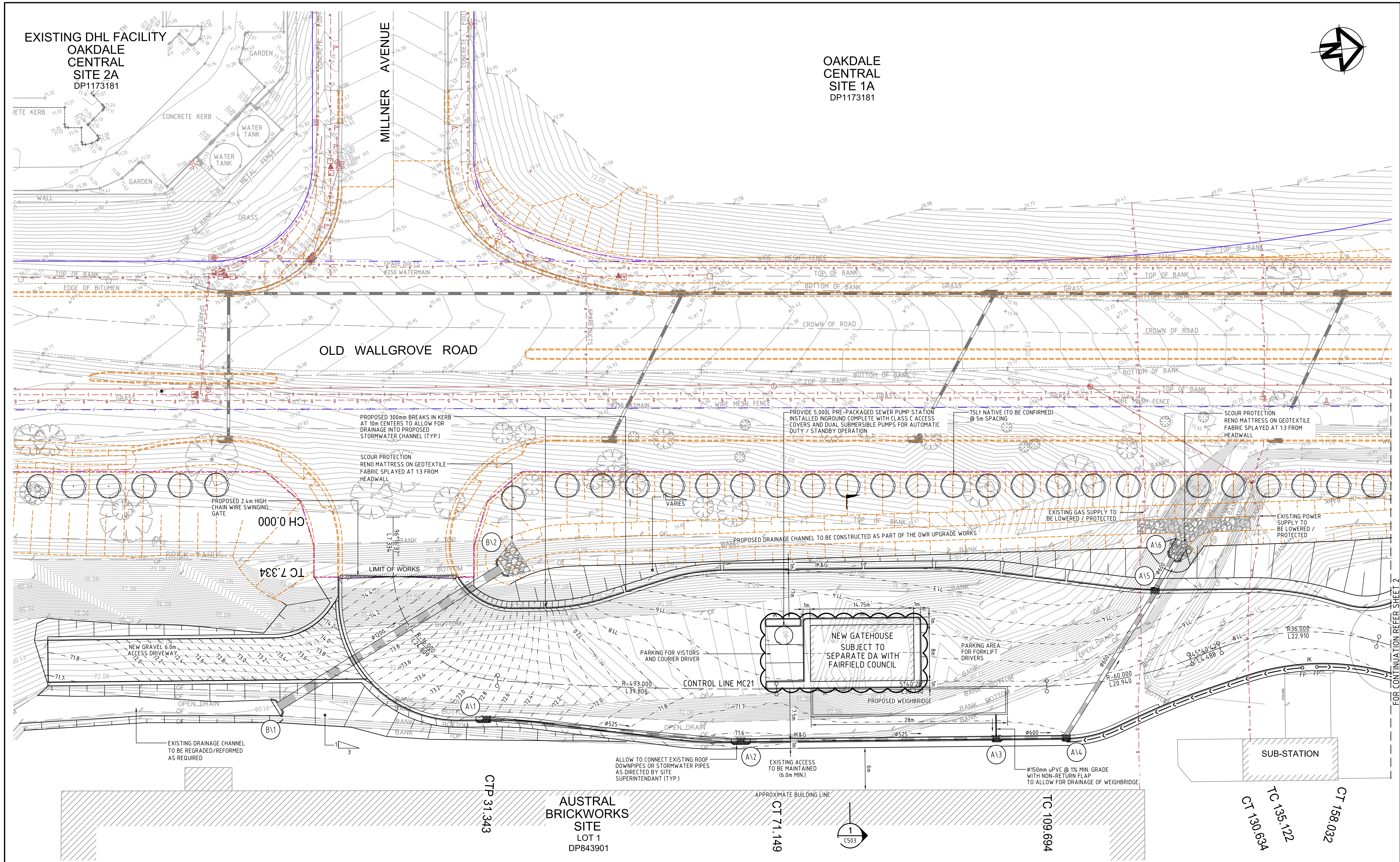
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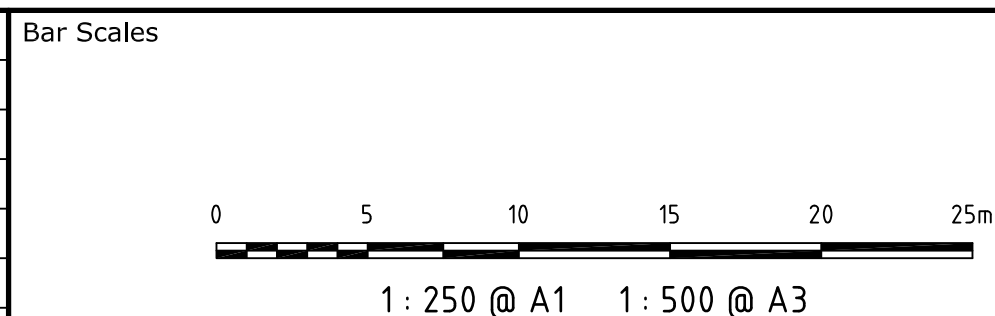
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D	ISSUE FOR SSDA APPROVAL	12-12-14
B	ISSUE FOR TENDER ADDENDUM	04-12-14
A	ISSUE FOR TENDER	25-11-14
P1	ISSUE FOR INFORMATION	14-11-14



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Client

BRICKWORKS LIMITED

Scales	1:250	Drawn	JB
Grid	MGA	Designed	JB
Height Datum	AHD	Checked	PW
		Approved	

Project

OLD WALLGROVE ROAD UPGRADE AUSTRAL ACCESS

Title

SITWORKS PLAN SHEET 1

Civil Engineers and Project Managers

at&l

Suite 702, 154 Pacific Hwy
St Leonards NSW 2065
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9460 8413
www.atl.net.au
info@atl.net.au

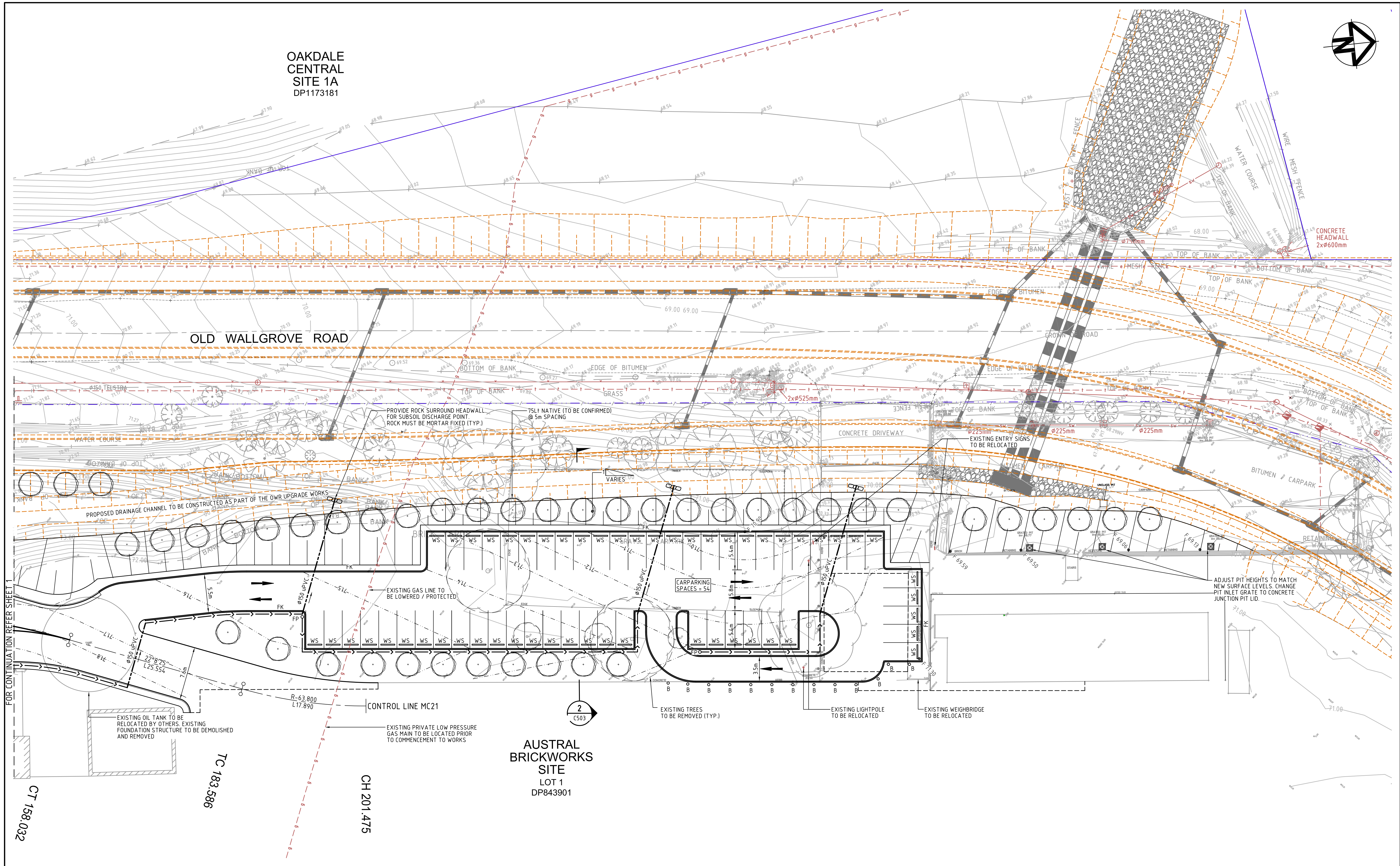
Status

FOR APPROVAL

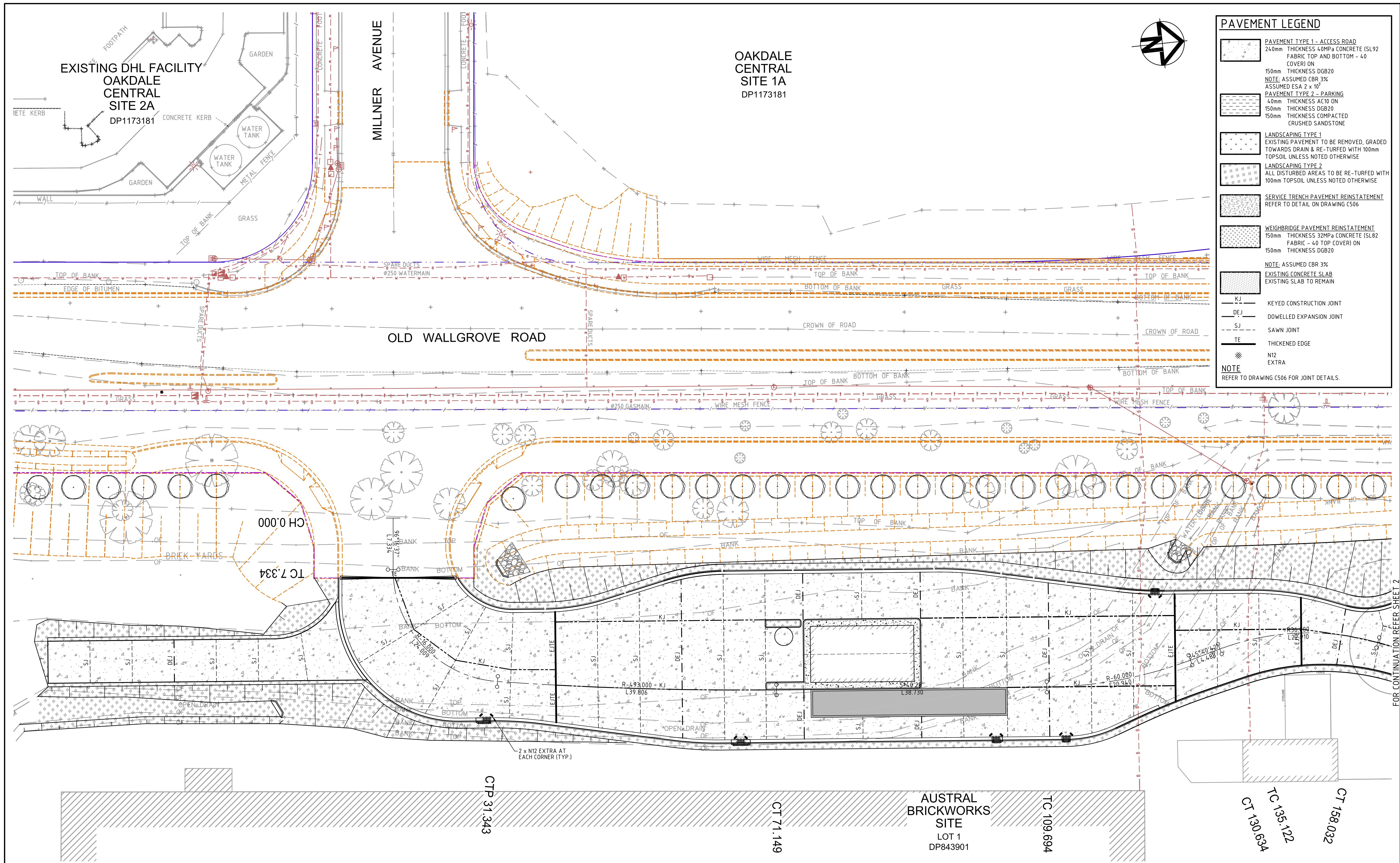
NOT TO BE USED FOR CONSTRUCTION

Drawing No. **C511** Project No. **13-129** Issue **D**

A1



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						BRICKWORKS LIMITED		1:250		JB		OLD WALLGROVE ROAD UPGRADE AUSTRAL ACCESS		at&l	
		1 : 250 @ A1 1 : 500 @ A3						Grid MGA		Designed JB				Suite 702, 154 Pacific Hwy St Leonards NSW 2065	
								Height Datum AHD		Checked PW		Title		ABN 96 130 882 405	
										Approved		SITWORKS PLAN SHEET 2		Tel: 02 9439 1777	
												Status		Fax: 02 9460 8413	
												NOT TO BE USED FOR CONSTRUCTION		www.atl.net.au	
												Drawing No.		Info@atl.net.au	
												C512		Project No.	
												13-129		Issue	
												D			



PAVEMENT LEGEND

PAVEMENT TYPE 1 - ACCESS ROAD
240mm THICKNESS 40MPa CONCRETE (SL92)
FABRIC TOP AND BOTTOM - 40 COVER ON

150mm THICKNESS DGB20
NOTE: ASSUMED CBR 3%
ASSUMED ESA 2 x 10⁷

PAVEMENT TYPE 2 - PARKING
40mm THICKNESS AC10 ON
150mm THICKNESS DGB20
150mm THICKNESS COMPACTED CRUSHED SANDSTONE

LANDSCAPING TYPE 1
EXISTING PAVEMENT TO BE REMOVED, GRADED TOWARDS DRAIN & RE-TURFED WITH 100mm TOPSOIL UNLESS NOTED OTHERWISE

LANDSCAPING TYPE 2
ALL DISTURBED AREAS TO BE RE-TURFED WITH 100mm TOPSOIL UNLESS NOTED OTHERWISE

SERVICE TRENCH PAVEMENT REINSTATEMENT
REFER TO DETAIL ON DRAWING C506

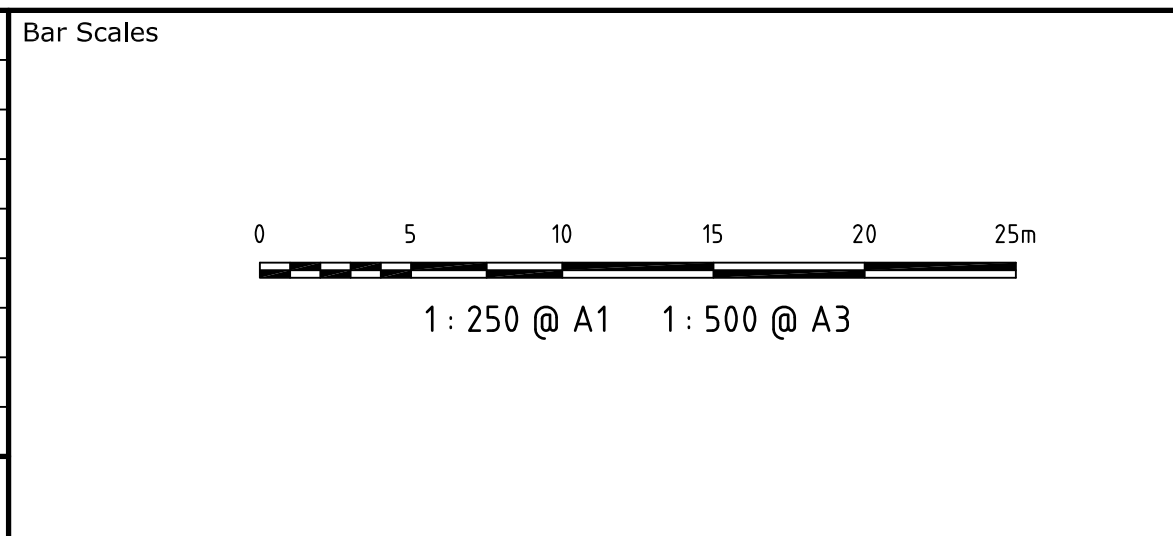
WEIGHBRIDGE PAVEMENT REINSTATEMENT
150mm THICKNESS 32MPa CONCRETE (SL82)
FABRIC - 40 TOP COVER ON
150mm THICKNESS DGB20

NOTE: ASSUMED CBR 3%
EXISTING CONCRETE SLAB
EXISTING SLAB TO REMAIN

KJ KEYED CONSTRUCTION JOINT
DEJ DOWELLED EXPANSION JOINT
SJ SAWN JOINT
TE THICKENED EDGE
N12 EXTRA

NOTE
REFER TO DRAWING C506 FOR JOINT DETAILS.

B	ISSUE FOR SSDA APPROVAL	12-12-14
A	ISSUE FOR TENDER	25-11-14
Issue	Description	Date



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Client

BRICKWORKS
LIMITED

Scales	1:250	Drawn	JB
		Designed	JB
Grid	MGA	Checked	PW
Height Datum	AHD	Approved	

Project

OLD WALLGROVE ROAD
UPGRADE
AUSTRAL ACCESS

Title

PAVEMENT
PLAN
SHEET 1

Civil Engineers and Project Managers

at&l

Suite 702, 154 Pacific Hwy
St Leonards NSW 2065
ABN 96 130 882 405
Tel: 02 9439 1777
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www.atl.net.au
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Status

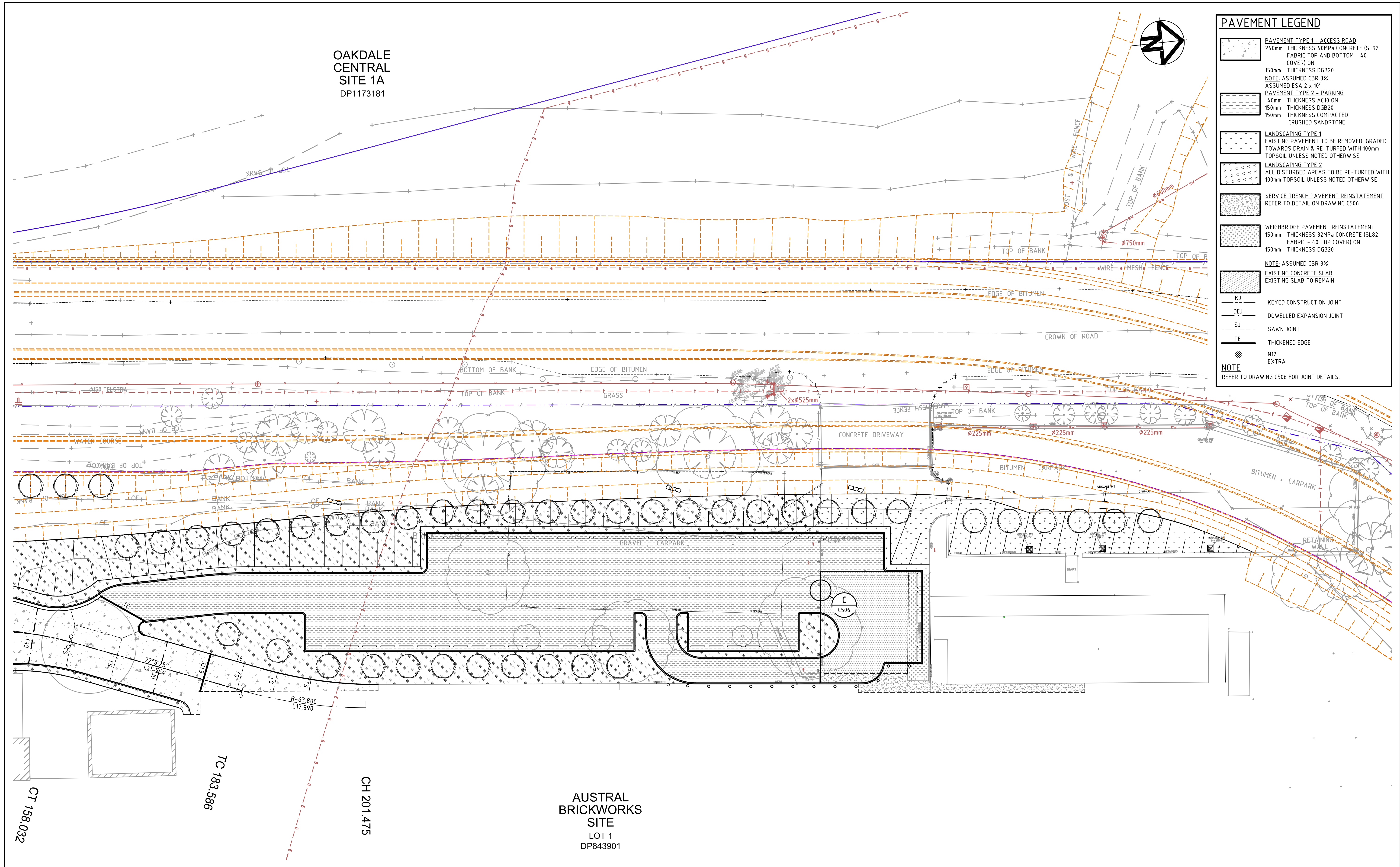
FOR APPROVAL
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Drawing No. C531

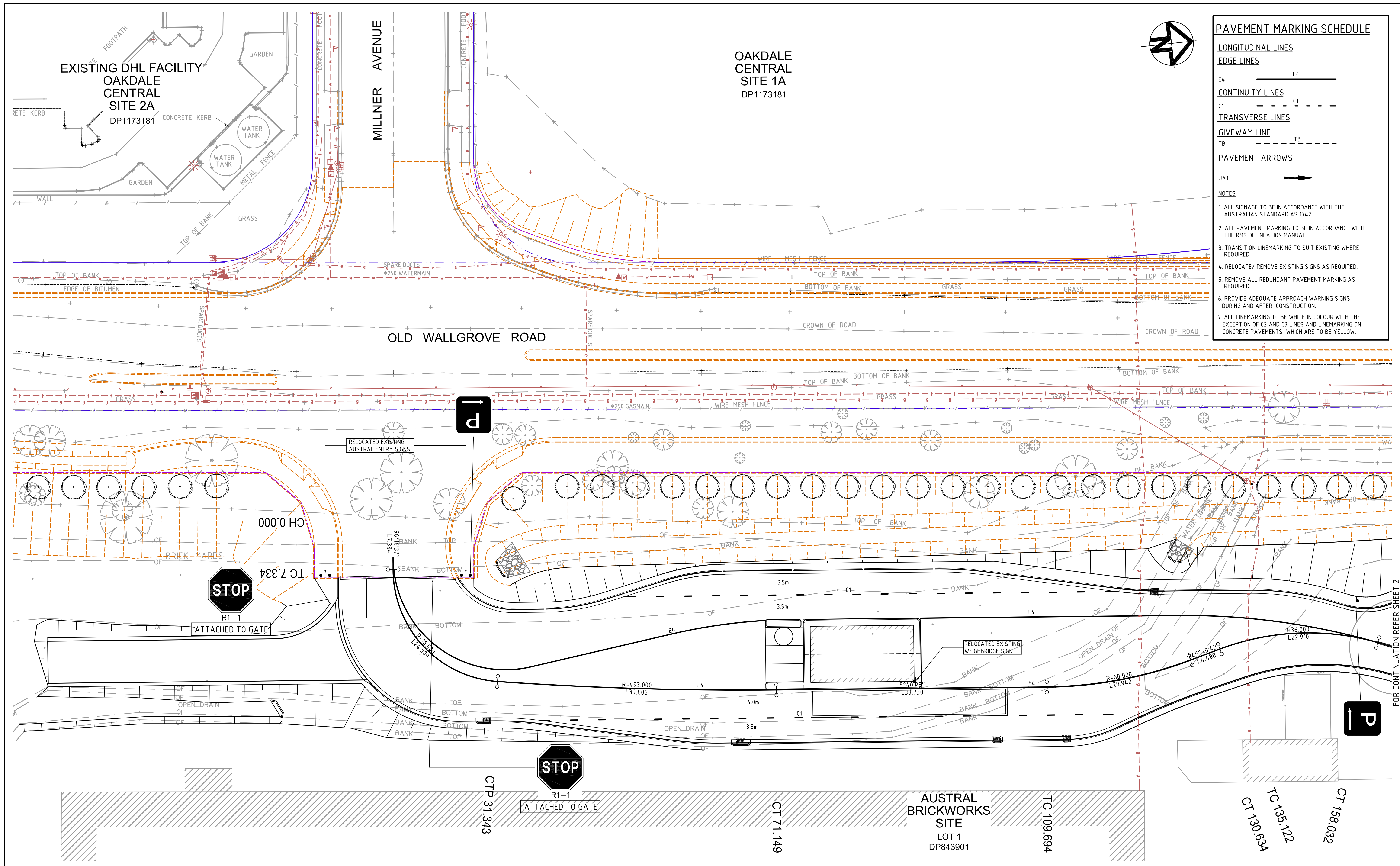
Project No. 13-129

Issue B

A1

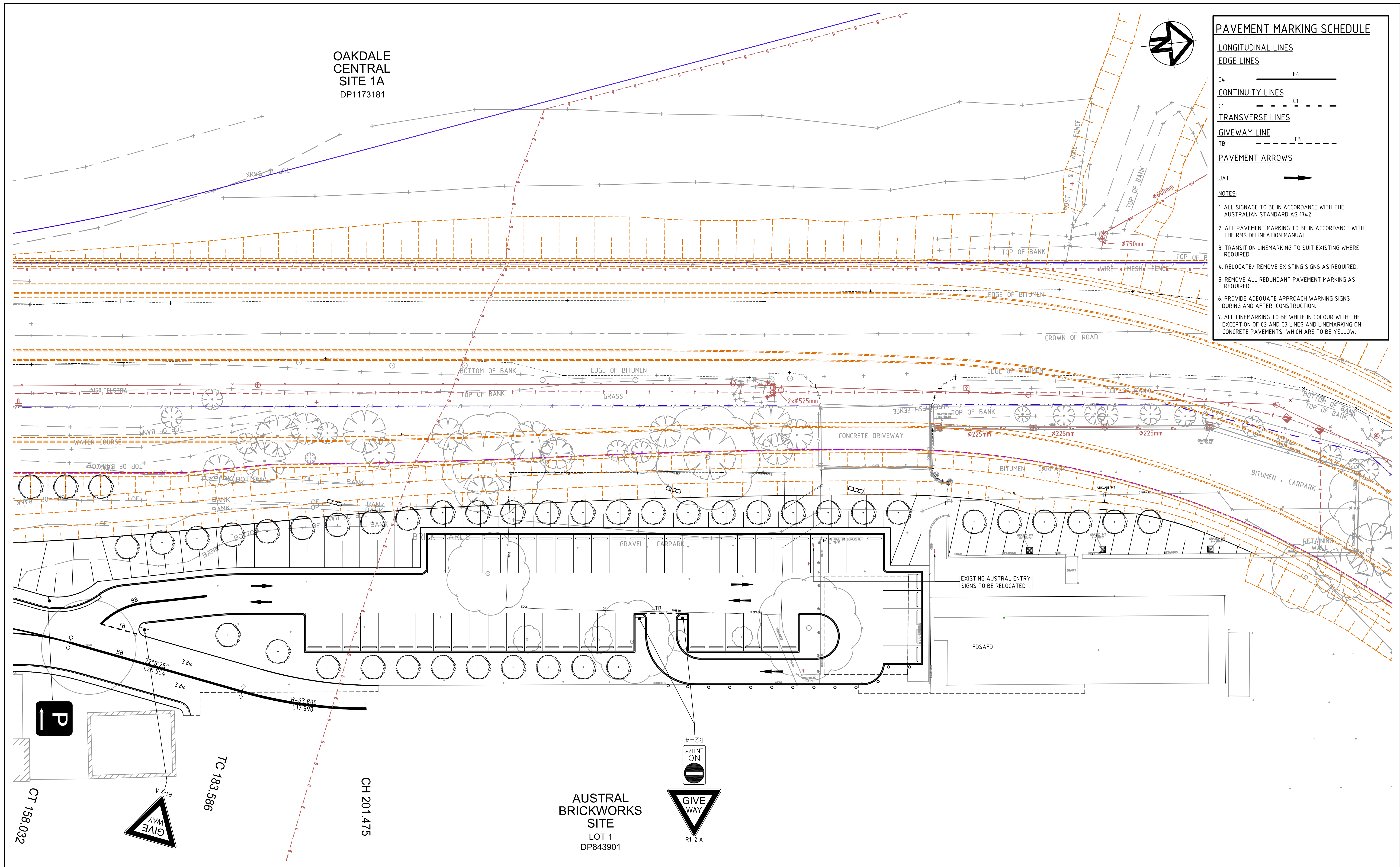


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								1:250		JB		OLD WALLGROVE ROAD UPGRADE AUSTRAL ACCESS			
		1: 250 @ A1 1: 500 @ A3						MGA		Designed		JB		Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au	
								AHD		Checked		PW		Status	
										Approved				FOR APPROVAL	
												Title		NOT TO BE USED FOR CONSTRUCTION	
												PAVEMENT PLAN SHEET 2		Drawing No.	
														C532	
														Project No.	
														13-129	
														Issue	
														C	

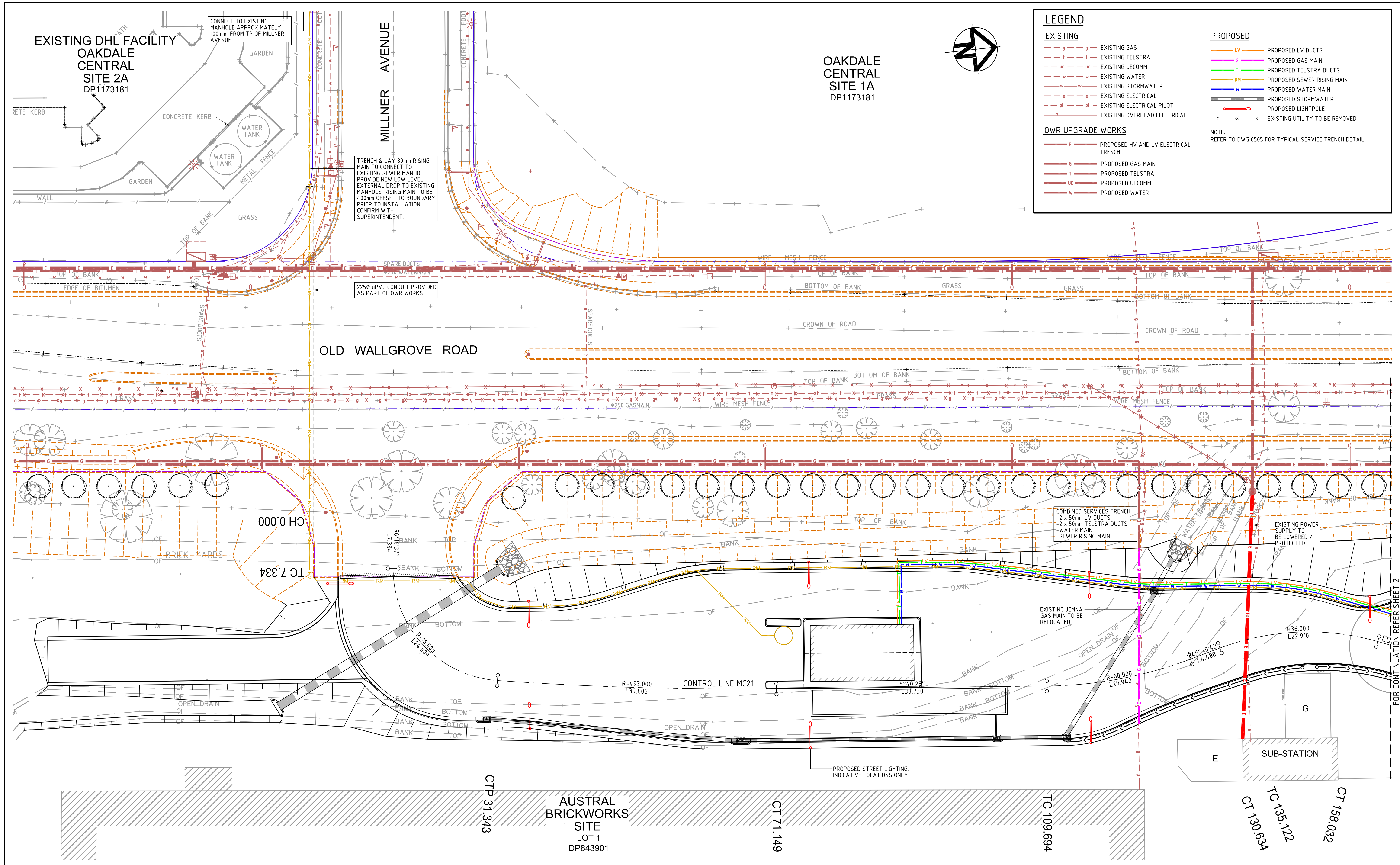


PAVEMENT MARKING SCHEDULE	
LONGITUDINAL LINES	
EDGE LINES	
E4	E4
CONTINUITY LINES	
C1	C1
TRANSVERSE LINES	
GIVEWAY LINE	
TB	TB
PAVEMENT ARROWS	
UA1	UA1
NOTES:	
1. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD AS 1742.	
2. ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH THE RMS DELINEATION MANUAL.	
3. TRANSITION LINEMARKING TO SUIT EXISTING WHERE REQUIRED.	
4. RELOCATE/ REMOVE EXISTING SIGNS AS REQUIRED.	
5. REMOVE ALL REDUNDANT PAVEMENT MARKING AS REQUIRED.	
6. PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.	
7. ALL LINEMARKING TO BE WHITE IN COLOUR WITH THE EXCEPTION OF C2 AND C3 LINES AND LINEMARKING ON CONCRETE PAVEMENTS WHICH ARE TO BE YELLOW.	

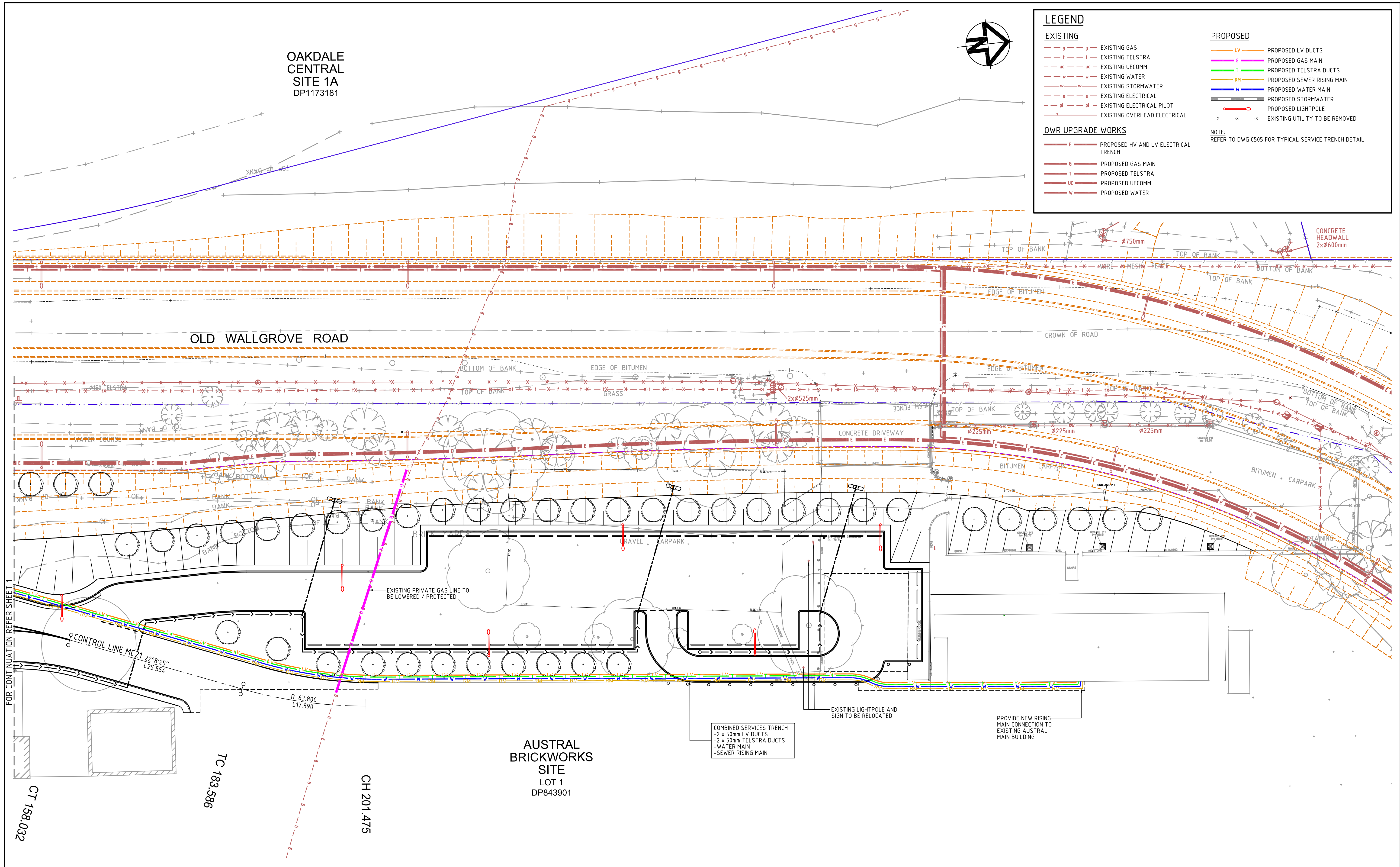
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0 5 10 15 20 25m		1: 250 @ A1 1: 500 @ A3				Grid MGA		Designed JB		Title SIGNAGE AND LINEMARKING PLAN SHEET 1		Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
C ISSUE FOR SSDA APPROVAL 12-12-14						Height Datum AHD		Checked PW				Drawing No. C541	
B ISSUE FOR TENDER ADDENDUM 04-12-14								Approved				Project No. 13-129	
A ISSUE FOR TENDER 25-11-14												Issue C	
Issue Description Date													



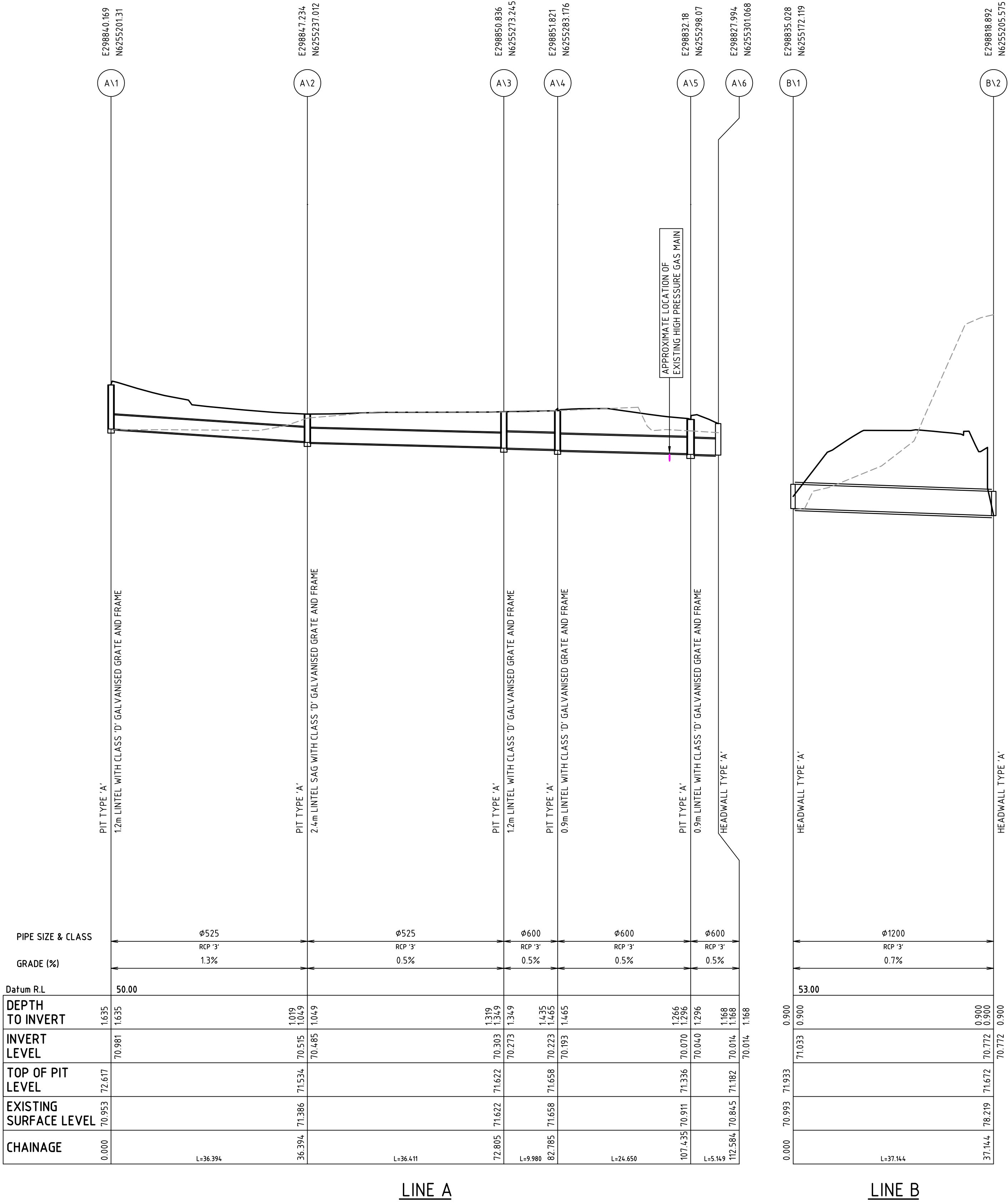
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			0 5 10 15 20 25m 1: 250 @ A1 1: 500 @ A3												Title SIGNAGE AND LINEMARKING PLAN SHEET 2		Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION		A1			
Issue			Description		Date												Drawing No. C542		Project No. 13-129		Issue C	



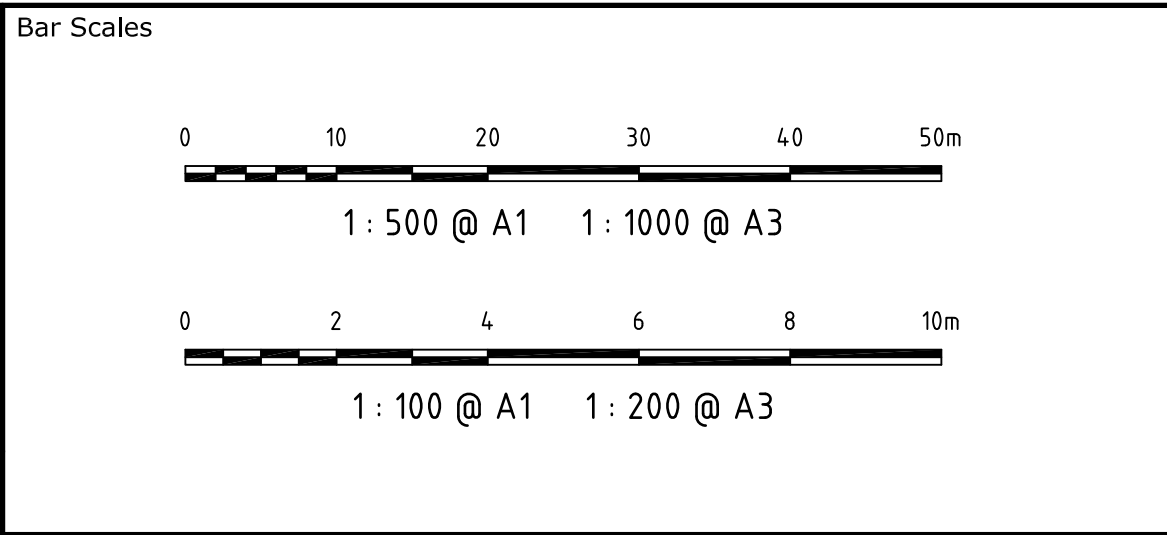
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		1:250								Designed		JB		OLD WALLGROVE ROAD UPGRADE AUSTRAL ACCESS		at&l Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au					
		Grid MGA								Checked		PW									
		Height Datum AHD								Approved											
												Title		Status		FOR APPROVAL		A1			
C		ISSUE FOR SSDA APPROVAL		12-12-14										SERVICES AND UTILITIES COORDINATION PLAN SHEET 1		NOT TO BE USED FOR CONSTRUCTION					
B		ISSUE FOR TENDER ADDENDUM		04-12-14												Drawing No. C551		Project No. 13-129		Issue C	
A		ISSUE FOR TENDER		25-11-14																	
Issue		Description		Date																	



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C	ISSUE FOR SSDA APPROVAL	12-12-14
B	ISSUE FOR TENDER ADDENDUM	04-12-14
A	ISSUE FOR TENDER	25-11-14
Issue	Description	Date



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Grid		Designed	JB
Height Datum	AHD	Checked	PW
		Approved	

Project	OLD WALLGROVE ROAD UPGRADE AUSTRAL ACCESS
Title	STORMWATER DRAINAGE LONGITUDINAL SECTION

Civil Engineers and Project Managers		
at&I		
Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au		
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C565	13-129	C