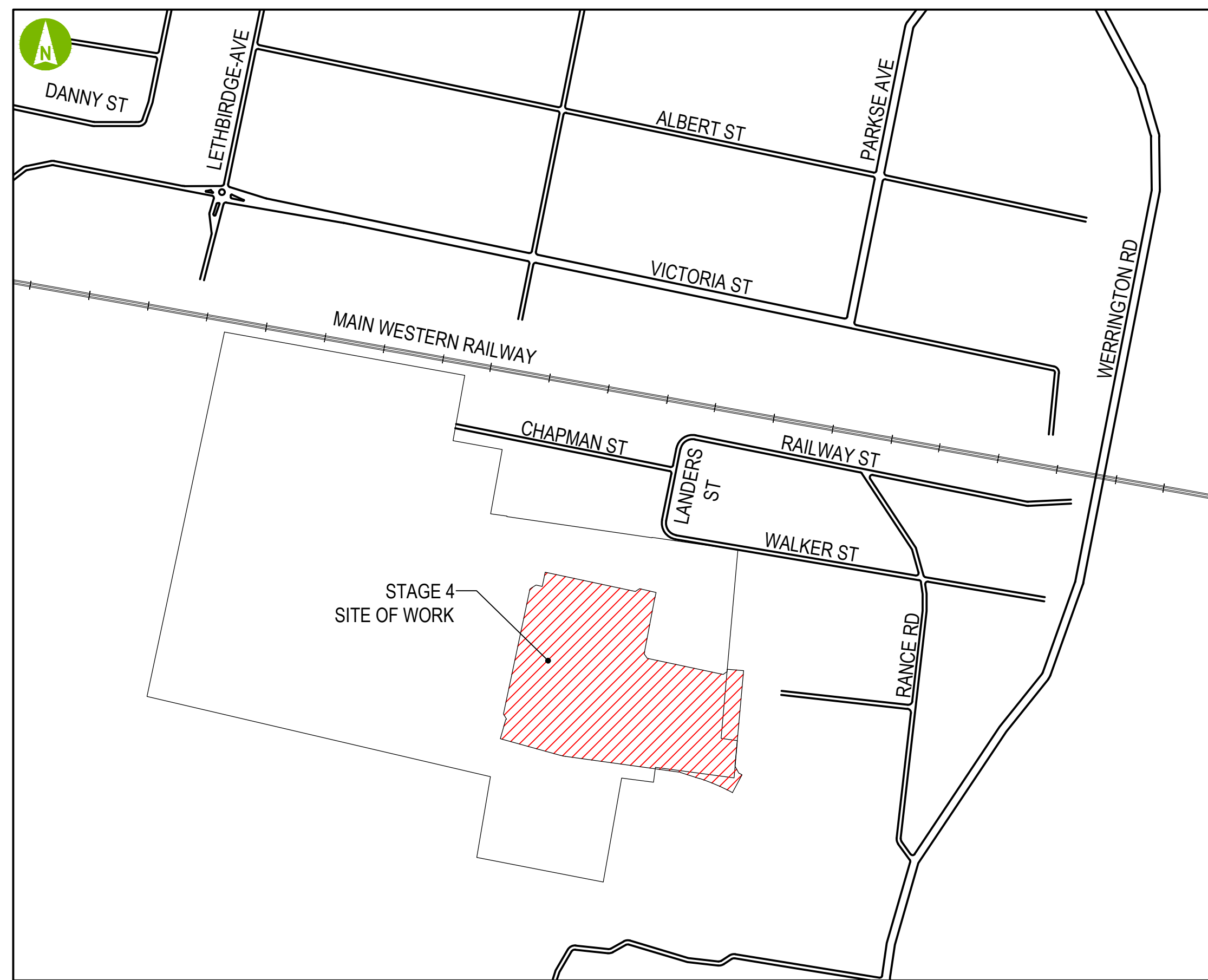


Universal Property Group Pty Ltd

16 CHAPMAN STREET WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT STAGE 4 - RESIDENTIAL DEVELOPMENT

LOCALITY PLAN



DRAWING INDEX

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ABN: 54 005 139 873

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Wherever a discrepancy in the contract documents is found and unless directed otherwise by the Principal/Engineer, the contractor shall adopt, at their own cost the greater quantum, class of finish, grade, or specification where applicable.

PRELIMINARY
NOT FOR CONSTRUCTION

SIZE	DATE	DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV
A1	29.06.17		241636	0000	DRG	CC	0700	A

A. GENERAL

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH PENRITH CITY COUNCIL GUIDELINES, STANDARDS AND SPECIFICATIONS AND / OR AS DIRECTED BY THE PRINCIPAL. REFER TO THE "ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS" 2015 ISSUE FOR CONSTRUCTION REQUIREMENTS AND TYPICAL COUNCIL DETAILS.
2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANT'S DRAWINGS, TECHNICAL SPECIFICATION AND OTHER SUCH INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
3. THE INFORMATION CONTAINED IN THESE DRAWINGS IS FOR CIVIL CONSTRUCTION ONLY. ALL DISCREPANCIES ON THE DRAWINGS AND WITH OTHER CONTRACT DRAWINGS SHALL BE REFERRED TO THE PRINCIPAL FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. WORKS SHALL NOT PROCEED WITHOUT CLARIFICATION AND INSTRUCTION FROM THE PRINCIPAL.
4. THE CONTRACTOR SHALL NOT ENTER OR WORK ON ADJOINING PROPERTIES WITHOUT THE WRITTEN CONSENT OF THE OWNERS OR THE RELEVANT AUTHORITIES.
5. TRAFFIC CONTROL FOR WORK IN AND AROUND PUBLIC ROADS TO BE IN ACCORDANCE WITH AS1742.3. THE CONTRACTOR IS TO SUBMIT A TRAFFIC CONTROL PLAN, TO BE APPROVED BY THE RELEVANT AUTHORITIES.
6. THE CONTRACTOR IS TO ENSURE THAT MINIMAL DISTURBANCE IS MADE TO AREAS OUTSIDE THE CONSTRUCTION WORKS.
7. THE SUBSTITUTION OF A PRODUCT OR USE OF A PROPRIETARY PRODUCT SHALL NOT BE USED UNLESS APPROVAL IS OBTAINED FROM THE PRINCIPAL PRIOR TO COMMENCING WORK.
8. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
9. DURING EXCAVATION WORKS ALL STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART OF THE STRUCTURE BE OVERSTRESSED.
10. ON COMPLETION OF WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS UNLESS DIRECTED OTHERWISE.

B. QUALITY SYSTEMS

1. THE CONTRACTOR SHALL MAINTAIN AND OPERATE AN APPROVED QUALITY SYSTEM TO AS/NZS ISO9002.
2. TWO (2) WEEKS PRIOR TO COMMENCING WORKS THE CONTRACTOR SHALL PROVIDE INSPECTION AND TEST PLANS TO THE PRINCIPAL FOR THEIR REVIEW, COMMENT AND APPROVAL.
3. ALL MATERIALS TESTING SHALL BE UNDERTAKEN BY A NATA ACCREDITED LABORATORY.

C. OCCUPATIONAL HEALTH AND SAFETY

1. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CURRENT NSW OCCUPATIONAL HEALTH AND SAFETY LEGISLATION.
2. TWO (2) WEEKS PRIOR TO COMMENCING WORKS THE CONTRACTOR SHALL PROVIDE A SAFETY PLAN AND SAFE WORK METHOD STATEMENTS TO THE PRINCIPAL FOR THEIR APPROVAL.
3. THE CONTRACTOR SHALL ERECT APPROPRIATE SAFETY SIGNS WHICH SHALL BE MAINTAINED DURING THE PROGRESS OF WORKS.

D. ENVIRONMENTAL MANAGEMENT

1. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH MOST CURRENT NSW ENVIRONMENTAL LEGISLATION.
2. TWO (2) WEEKS PRIOR TO COMMENCING WORKS THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN TO THE PRINCIPAL FOR THEIR APPROVAL.

E. SETOUT/SURVEY

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SETTING OUT OF THE WORKS IN ACCORDANCE WITH THE SETOUT DETAILS AND MEASUREMENTS SHOWN ON THE DRAWINGS.
2. ALL SETOUT INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. SETOUT INFORMATION AND DESIGN IS BASED ON SITE SURVEY BY SDG LAND DEVELOPMENT SOLUTIONS DATE 07/02/2013.
3. THE DRAWINGS SHALL NOT BE SCALED.
4. ALL DIMENSIONS ARE IN MILLIMETRES. LEVELS, COORDINATES AND CHAINAGES ARE IN METRES (UNO).

F. EXISTING SERVICES

1. CONTRACTORS ARE TO UNDERTAKE A FULL SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.
2. CONTRACTORS ARE TO CONTACT ALL RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING THE LOCAL COUNCIL.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UPDATE THE INFORMATION AND TO ADEQUATELY INFORM THEMSELVES OF THE LOCATION OF ALL SERVICES WHETHER SHOWN ON THE CONTRACT DOCUMENTS OR NOT.
4. ANY ADJUSTMENT OR RELOCATION OF SERVICES THAT MAY BE REQUIRED SHALL BE CARRIED OUT BY THE CONTRACTOR. (WITH THE AGREEMENT OF THE SERVICE AUTHORITY CONCERNED).
5. THE CONTRACTOR SHALL MAINTAIN ALL SERVICES ON THE SITE AND ADJACENT PUBLIC ROAD AREAS THROUGHOUT THE CONTRACT PERIOD AS REQUIRED.
6. NEW SERVICES SHALL BE CONSTRUCTED AS INDICATED ON THE DRAWINGS.
7. SERVICE TRENCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATION FOR STORMWATER TRENCHES.

G. EROSION AND SEDIMENT CONTROL

1. ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL, SHALL BE IMPLIMENTED TO THE REQUIREMENTS OF THE ENVIRONMENT PROTECTION AGENCY (EPA) AND THE DEPARTMENT OF LAND AND WATER CONSERVION. MEASURES OUTLINED IN THE SOIL & WATER MANEGMENT PLAN MUST BE IMPLIMENTED PRIOT TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.
2. EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION (BLUE BOOK)'.
3. THE CONTRACTOR SHALL PROVIDE, MOVE, ALTER AND RELOCATE CATCH DRAINS, SEDIMENT FENCES AND OTHER DEVICES TO SUIT THE PROGRESS OF WORKS AND ENSURE THAT THE SITE DRAINS TO THE SEDIMENT BASINS.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRUCK WASH FACILITIES AT THE SITE EXIT AND SHALL CLEAN ALL VEHICLES EXITING THE SITE TO ENSURE MATERIALS AND MUD IS NOT TRANSPORTED AND DEPOSITED OFF SITE. WATER FROM ANY WASHBAY IS TO BE DIVERTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.
5. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
6. ALL TAIL-OUT DRAINS SHALL BE GRASSED AND TRAPEZOIDAL IN SECTION, STAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVISE WHERE REQUIRED.
7. VEHICLE TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT, CONFINING ACCESS WHERE POSSIBLE TO PROPOSE OR EXISTING ROAD ALIGNEMNTS. AREAS TO BE LEFT UNDESTURBED SHALL BE MARKED OFF.

8. THE CONTRACTOR SHALL REGULARLY CHECK AND MAINTAIN SEDIMENT AND EROSION CONTROL STRUCTURES AND DESILT SUCH STRUCTURES PRIOR TO THE REDUCTION IN CAPACITY OF 30% DUE TO ACCUMULATED SILT. THE SEDIMENT SHALL BE DISPOSED OF ON SITE IN A MANNER APPROVED BY THE PRINCIPAL.
9. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
10. ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN 14 DAYS FROM THE CONCLUSION OF LAND SHAPING.
11. FOLLOWING CONSTRUCTION OF THE KERBS AND BACKFILLING BEHIND THEM, THE CONTRACTOR SHALL PROVIDE A 300mm WIDE TURF STRIP BEHIND ALL KERBS.

H. STOCKPILE

1. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
2. IF STOCKPILES ARE TO BE IN PLACE FOR MORE THAT 14 DAYS THEN THEY SHALL BE STABILISED WITH COVERING WITH MULCH OR WITH TEMPORARY VEGETATION.
3. FOLLOWING CONSTRUCTION TOPSOIL SHALL BE SPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACE AND RE-VEGETATED. ALL STOCKPILES TO BE MAXIMUM 2m HIGH AND BE PROTECTED WITH A SILT FENCE.

I. NOISE AND VIBRATIONS

1. CONSTRUCTION NOISE AND VIBRATIONS SHALL COMPLY WITH NSW DEPARTMENT OF ENVIRONMENT AND CONSERVATION'S PUBLICATION "ASSESSING VIBRATION: A TECHNICAL GUIDELINE" AND THE "ENVIRONMENTAL NOISE MANUAL (EPA,1994).

CONSTRUCTION DURATION	NOISE LEVELS (CONSTRUCTION-BACKGROUND)
0 - 4 WEEKS	LA10(15 MINUTE) ≤ LA90 + 20 Db(A)
4 - 26 WEEKS	LA10(15 MINUTE) ≤ LA90 + 10 Db(A)
MORE THAN 26 WEEKS	LA10(15 MINUTE) ≤ LA90 + 50 Db(A)

J. EARTHWORKS

1. ALL EARTHWORKS TO BE CARRIED OUT TO THE SATISFACTION OF THE PRINCIPAL. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM UNDER ROADS AND BUILDINGS PRIOR TO FILLING. THE CONTRACTOR IS TO SUBMIT COMPACTION CERTIFICATES WHERE REQUIRED EACH WEEK TO THE PRINCIPAL.
2. ALL EARTHWORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH AS3798 AND SHALL BE LEVEL 1 FOR STRUCTURAL FILL AREAS (UNDER ROADS AND BUILDINGS) AND CLASS 2 FOR OTHER AREAS.
3. GENERAL FILL: SHALL CONSIST OF WELL GRADED MATERIAL, MAXIMUM PARTICLE SIZE 75 MM, PLASTICITY INDEX 20%.
4. STRUCTURAL FILL AND SELECT FILL SHALL CONSIST A GRANULAR MATERIAL COMPLYING WITH THE FOLLOWING:

a. PARTICLE SIZE: 75 MM MAXIMUM.

b. PROPORTION PASSING 0.075 MM SIEVE: 25% MAXIMUM.

c. PLASTICITY INDEX: 2% AND 15%.

d. HARDCORE: GRADED HARD MATERIAL CAPABLE OF BEING COMPACTED TO AN EVEN STABLE SURFACE.

e. PROPORTION EXCEEDING PARTICLE SIZE OF 50 MM: 75% MINIMUM.
5. PRIOR TO IMPORTING FILL THE CONTRACTOR SHALL SUBMIT GEOTECHNICAL TEST CERTIFICATES AND RESULTS DEMONSTRATING THE MATERIAL COMPLIES WITH THE PROPOSED MATERIAL CHARACTERISTICS AND TO EPA CHEMICAL REQUIREMENTS.
6. CONSTRUCTION AREAS TO BE STRIPPED OF ALL UNCONTROLLED FILL, TOPSOIL, ROOTZONE, VEGETATION AND OTHER DELETERIOUS MATERIALS TO EXPOSE NATURAL RESIDUAL SOILS, FREE OF LOOSE, COMPRESSIBLE OR DEFORMING MATERIAL.
7. TOPSOIL TO BE STOCKPILED FOR RE-USE, SURPLUS TOPSOIL TO BE DISPOSED OF OFFSITE OR AS DIRECTED BY PRINCIPAL .
8. BEFORE PLACING FILL PROOF ROLL EXPOSED SUBGRADE WITH A 10 TONNE NON VIBRATING STEEL DRUM ROLLER TO DETECT AND THEN REMOVE SOFT SPOTS (AREAS WITH ANY VISIBLE MOVEMENT UNDER ROLLER) AND COMPACT SUBGRADE.
9. NO FILLING SHALL TAKE PLACE TO THE EXPOSED SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED WITH THE PRINCIPAL AND APPROVAL OBTAINED FROM THE PRINCIPAL THAT FILLING CAN PROCEED.
10. FILLING TO BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200MM.
11. ALL BATTER SLOPES TO BE 1 VERTICALLY IN 4 HORIZONTALY (1:4), UNO.

12. FILL TO BE COMPACTED AT +/- 2% OF THE OPTIMUM MOISTURE CONTENT. COMPACT CUT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	COHESIVE SOIL DRY DENSITY RATIO (STANDARD COMPACTION) TO AS1289.5.4.1)	COHESIONLESS SOIL DENSITY INDEX TO AS1289.5.6.1
GENERAL FILL	95%MIN	70%MIN
RESIDENTIAL	95% MIN	70% MIN
COMMERCIAL BUILDINGS	98% MIN	75% MIN
FILL TO SUPPORT PAVEMENTS	95% MIN	70% MIN
PAVEMENT SUBGRADE (IE TOP 300MM)	100% MIN	80% MIN
LANDSCAPED AREAS	85% MIN	60% MIN

13. MATERIAL TESTING TO BE IN ACCORDANCE WITH AS3798 APPENDIX B LEVEL 2. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN:-

13.1. 1 TEST PER 100M3 OR 1 TEST PER LAYER PER 200M2 WHICHEVER REQUIRES MORE TESTS WITH A MINIMUM OF 3 TEST PER LOT.

13.2. 1 TEST PER 200M2 OF EXPOSED SUBGRADE WITH A MINIMUM OF 3 TEST PER LOT.

REV	DATE	REVISION DETAILS	APPROVED
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER

SCALE	SIZE
NOT TO SCALE	A1
DRAWN N.NGUYEN	
DESIGNED T.TRINH	
VERIFIED R.DEKKER	

PRELIMINARY NOT FOR CONSTRUCTION	
APPROVED PROJECT DIRECTOR	DATE

PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT					
TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT GENERAL NOTES SHEET 1 OF 2					
DRAWING No.	PROJECT No. 241636	WBS 0000	TYPE DRG	DISC CC	NUMBER 0701	REV A

K. EARTHWORKS CONTINUED

14. THE CONTRACTOR SHALL CONFIRM THE SUBGRADE STRENGTH OF ALL ROADS AND OBTAIN A 4-DAY SOAKED CBR FOR THE SUBGRADE FREQUENCY OF TESTING TO BE A MINIMUM 1 TEST PER 1000 SQ.M OF PAVEMENT AREA OR MINIMUM 1 TEST PER ROAD WHICHEVER IS GREATER. THE TEST RESULTS SHALL BE REPORTED TO THE PRINCIPAL. IF THE CBR IS LESS THAN THE ASSUMED DESIGN CBR OF 5% THEN REMEDIAL ACTION SHALL BE TAKEN BY THE CONTRACTOR UNTIL THIS STANDARD IS ACHIEVED OR THE CONTRACTOR SHALL INCREASE PAVEMENT THICKNESS BASED ON THE ACTUAL CBR. IF REQUIRED THE REVISED PAVEMENT THICKNESS SHALL BE APPROVED BY THE PRINCIPAL PRIOR TO RECOMMENCEMENT.

15. EARTHWORKS SHALL BE CUT AND FILLED TO THE DESIGN LEVELS AND DETAILS PROVIDED ON THE DRAWINGS AND SHALL BE WITHIN THE FOLLOWING TOLERANCES:

LOCATION	ABSOLUTE	RELATIVE
UNDER BUILDING SLABS ON GROUND	+0mm, -20mm	10mm
UNDER ROADS AND CARPARKS	+0mm, -20mm	10mm
LANDSCAPE AREAS	+50mm, -50mm	50mm

16. ABSOLUTE LEVEL TOLERANCE SHALL BE THE MAXIMUM DEVIATION FROM DESIGN LEVEL. RELATIVE LEVEL TOLERANCE SHALL BE THE MAXIMUM DEVIATION FROM A 3 M STRAIGHT EDGE LAID ANYWHERE ON EACH PLANE SURFACE.

17. FOLLOWING COMPLETION OF EARTHWORKS AND PRIOR TO CONSTRUCTING PAVEMENTS OR PLACING TOPSOIL OR CONSTRUCTING STRUCTURES THE CONTRACTOR SHALL SURVEY THE SURFACE AND PROVIDE DRAWINGS SHOWN THE AS BUILT LEVELS AND ANY DEVIATIONS.

L. STORMWATER DRAINAGE

1. STORMWATER DRAINAGE WORKS TO BE IN ACCORDANCE WITH AS3500. ALL CONCRETE WORKS TO BE IN ACCORDANCE WITH AS3600 AND ALL STEEL REINFORCEMENT AND STEEL MESH TO BE IN ACCORDANCE WITH AS4671.
2. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS AND PIPES, THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY TO PREVENT PERSONNEL FALLING INTO PITS AND TRENCHES.
3. THE CONTRACTOR SHALL ALLOW FOR DEWATERING AS REQUIRED DURING CONSTRUCTION.
4. ALL PIPE CENTRELINES IN PITS SHALL INTERSECT (IN PLAN) WITH THE CENTRELINE OF THE OUTLET PIPE AT THE DOWN STREAM FACE OF THE PIT.
5. EXCAVATE FOR STORMWATER PIPES, PITS AND DRAINS, TO REQUIRED LINES, LEVELS AND GRADES. GENERALLY MAKE THE TRENCHES STRAIGHT BETWEEN PITS, INSPECTION POINTS AND JUNCTIONS, WITH VERTICAL SIDES AND UNIFORM GRADES. THE BASE OF THE TRENCH SHALL BE FIRM AND SMOOTH, FREE FROM WATER, MUD, STONES AND OTHER SHARP OBJECTS.
6. PROVIDE SHORING OR BRACING TO ALL TRENCHES AND EXCAVATIONS.
7. BEDDING AND BACKFILL DENSITY TESTS SHALL BE UNDERTAKEN BY AN AUTHORITY ACCREDITED BY NATA. ONE (1) TEST FOR EACH MATERIAL ZONE PER 50 SQ.M OF TRENCH PLAN AREA PER 300mm LAYER. WHERE THE TRENCH PLAN AREA FROM ONE PIT TO ANOTHER IS LESS THAN 50 SQ.M PROVIDE ONE (1) TEST FOR EACH MATERIAL ZONE PER 300MM LAYER. MIN EMBEDMENT COMPACTION TO BE 95% SMDD OR DENSITY INDEX 70.
8. PIPES 300mm DIAMETER AND SMALLER SHALL BE SEWER GRADE (SH) PVC-U CLASS SN8 TO AS1260 WITH RUBBER RING JOINTS. EMBEDMENT SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH AS2566 FOR FLEXIBLE PIPES U.N.O. PIPES TO HAVE MINIMUM 1% GRADE WITH MINIMUM 300MM COVER U.N.O.
9. PIPES 375mm AND LARGER TO BE PRECAST REINFORCED CONCRETE CLASS '3' TO AS4058 APPROVED SPIGOT AND SOCKET (LONG JOINT) WITH RUBBER RING JOINTS U.N.O. EMBEDMENT SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH AS3725 TYPE HS2 SUPPORT FOR RIGID PIPES U.N.O.

11. ALL PIPES SHALL BE LAID IN ACCORDANCE WITH AS3725 TO THE LEVELS SHOWN ON THE DRAWINGS AND WITHIN +/-10mm WITHOUT CAUSING WATER TO POND. PIT TOPS AND COVERS SHALL BE FINISHED TO MATCH TO THE DESIGN SURFACE U.N.O.
12. ALL PITS AND GULLIES TO BE REINFORCED WITH STEEL AS INDICATED.
13. ALL STORMWATER PITS GREATER THAN 1.2m IN DEPTH TO HAVE MINIMUM INTERNAL DIMENSIONS OF 900mm X 900mm AND STEP IRONS PROVIDED AT 300mm SPACING. FIRST STEP MAX. 300mm FROM SURFACE.
14. PRECAST PITS TO BE LAID ON 100mm THICK N25 CONCRETE BASE. BACKFILL AROUND PIT WITH N25 CONCRETE TO HALF PIT HEIGHT.
15. PVC TYPE PITS ARE NOT TO BE USED.
16. GRATES AND COVERS SHALL CONFORM TO AS3996 AND TO COUNCIL REQUIREMENTS.
17. NO PIT GRATE COMPONENT PART SHALL WEIGH MORE THAN 20kg. ALL GRATES SHALL BE HINGED TYPE WITH LOCKDOWN DEVICE. ONLY FULLY OPENING GRATES ARE ACCEPTABLE.
18. FINISH ALL INLET/OUTLET PIPES WITH PIT WALLS.

M. CONCRETE

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. PREMIXED CONCRETE SHALL BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH AS1379.
3. PORTLAND AND BLENDED CEMENT SHALL COMPLY WITH AS3972 AND BE OFF TYPE SR (SULFATE RESISTING).
4. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING. ADMIXTURES SHALL COMPLY WITH AS1478.1.
5. AGGREGATE SHALL COMPLY WITH AS2758.1
6. WATER SHALL BE CLEAN FRESH WATER IN ACCORDANCE WITH AS1379.
7. PROJECT CONTROL TESTSING SHALL BE CARRIED OUT ON ALL CLASSES OF CONCRETE IN ACCORDANE WITH AS1379.
8. CONCRETE QUALITY (UNO)

ELEMENT	AS 3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGGREGATE SIZE
STORMWATER PITS AND STRUCTURES	25 MPa	80 mm	20 mm
KERBING AND CHANNELING	25 MPa	20 mm (MACHINE MOULDED)	20 mm
VEHICLE RAMPS	25 MPa	80 mm	20 mm
FOOTPATHS	25 MPa	80 mm	20 mm
CYCLEWAYS	25 MPa	80 mm	20 mm

9. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 35mm TOP AND 50mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
10. 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 CURED FOR MINIMUM 7 DAYS.
11. LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL COMPLY WITH AS3799.
12. UNDERLAY MEMBRANE SHALL BE FLEXIBLE, POLYMERIC FILM COMPLYING WITH AS2870. (MINIMUM 0.2mm THICK)

N. STEEL REINFORCEMENT

1. STEEL REINFORCEMENT SHALL COMPLY WITH AS/NZS4671. DOWELS SHALL BE ONE-PIECE, STRAIGHT, PLAIN STEEL BAR OR PLATE COMPLYING WITH AS/NZS 4671 OR AS/NZS 3679.1. TIE BARS SHALL BE DEFORMED BARS COMPLYING WITH AS/NZS 4671
2. REINFORCEMENT NOTATION
- NUMBER OF BARS IN GROUP

12

Y

20

-

250

NORMAL BAR SIZE IN MM

1

L

SPACING IN MM
3. THE NUMBER FOLLOWING THE FABRIC SYMBOL F IS THE REFERENCE NUMBER FOR FABRIC TO AS1304. FABRIC SHALL BE LAPPED WITH TWO TRANSVERSE WIRES AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH AS4671.
4. REINFORCEMENT SHALL BE SUPPORTED ON PURPOSE MADE CONCRETE, STEEL OR PLASTIC SUPPORTS DEPENDING ON THE EXPOSURE CONDITION TO PROVIDE THE SPECIFIED CLEAR COVER. AT EXTERNAL SURFACES EITHER ALL PLASTIC OR CONCRETE SUPPORTS SHALL BE USED. SUPPORTS SHALL BE LOCATED AT NOT MORE THAN 60 BAR DIAMETERS EACH WAY FOR BARS AND NOT MORE THAN 750mm EACH WAY FOR MESH.
5. SITE BENDING OF REINFORCEMENT BARS SHALL BE DONE WITHOUT HEATING USING A RE-BENDING TOOL. THE BARS SHALL BE RE-BENT AGAINST A FLAT SURFACE OR A PIN WITH A DIAMETER NOT LESS THAN THE MINIMUM PIN SIZE PRESCRIBED IN AS3600.
6. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

O. PAVEMENTS

1. THE CONTRACTOR SHALL CONSTRUCT THE PAVEMENTS AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
- A) RESIDENTIAL PAVEMENTS: AS3727

B) ASPHALT: AS2150 AND AS2150 AND RMS R116

C) BASE AND SUBBASE: RMS QA SPECIFICATION 3051

D) CONCRETE PAVEMENTS: AS3600
2. FORMATION FILL MATERIAL SHALL BE IN ACCORDANCE WITH RMS QA 3071 AND COMPACTED TO MINIMUM 98% MMDD IN ACCORDANCE WITH AS1289. (SELECTED MATERIAL LAYERS)
3. ALL SUBBASE MATERIAL SHALL BE QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051 AND TABLE 3051.1 AND COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY (MMDD) IN ACCORDANCE WITH AS1289 5.2.1.
4. ALL BASE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051 (UNBOUND) AND TABLE 3051.1, OR RMS FORM 3052 (BOUND) AND COMPACTED TO MINIMUM 98% MMDD IN ACCORDANCE WITH AS1289 5.2.1.
5. ASPHALTIC CONCRETE SHALL CONFORM TO RMS FORM R116 AND BE COMPACTED TO 98% MMDD. THE ASPHALT SHALL BE COMPACTED WHILE HOT TO ACHIEVE A DENSE, SMOOTH SURFACE, FREE OF ROLLER MARKS OR LOOSE MATERIAL.
6. MATERIALS SHALL BE PLACED IN LAYERS NOT EXCEEDING 5 TIMES THERE AVERAGE LEAST DIMENSION (ALD) OR NOT MORE THAN 150MM WHICH EVER IS THE LESSER AND NOT LESS THAN 2.5 TIMES THEIR ALD OR 75MM.
7. MATERIALS SHALL BE SPREAD, COMPACTED AND TRIMMED TO THE LEVELS AND DETAILS SHOWN ON THE DRAWINGS. PROVIDE A FINISHED SURFACE WHICH IS FREE DRAINING AND EVENLY GRADED.
8. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50M LINEAR OR 250M² PER LAYER WITH NO LESS THAN 2 TESTS PER LAYER IN ANY SECTION.
9. FOLLOWING COMPACTION OF THE SUBBASE AND BASE AND WEARING SURFACE EACH LAYER SHALL BE PROOF ROLLED IN THE PRESENCE OF THE PRINCIPAL. PROOF ROLL THE SURFACE WITH AT LEAST A 10 TONNE MASS STATIC ROLLER.

10. FOLLOWING COMPLETION OF THE WEARING SURFACE THE CONTRACTOR SHALL SURVEY THE SURFACE AND PROVIDE DRAWINGS SHOWING THE AS BUILT LEVELS AND ANY DEVIATIONS IN ACCORDANCE WITH THE TOLERANCE SHOWN BELOW:

LOCATION / LAYER	LEVEL TOLERANCE
SUBBASE SURFACE	+ 10 mm - 5 mm
LEAN MIX CONCRETE SUBBASE SURFACE	+10 mm -10 mm
BASE SURFACE	+ 5 mm -10 mm
FINISHED SURFACE / WEARING COURSE	+5 mm -5 mm

11. ABSOLUTE LEVEL TOLERANCE SHALL BE THE MAXIMUM DEVIATION FROM DESIGN LEVEL. RELATIVE LEVEL TOLERANCE SHALL BE THE MAXIMUM DEVIATION FROM A 3m STRAIGHT EDGE LAID ANYWHERE ON EACH PLANE SURFACE.

P. KERBS AND RAMPS

1. ALL CONCRETE SHALL COMPLY WITH AS3600.
2. EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.
3. ALL KERBS TO BE CONSTRUCTED STRAIGHT AND UNIFORM AS SHOWN ON THE DRAWINGS.
4. PROVIDE 10mm MASTIC JOINTS LOCATED AT DRAINAGE PITS ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE MASTIC JOINTS ARE TO MATCH THE JOINT LOCATION IN THE SLABS.
5. WEAKENED PLANE JOINTS TO BE MINIMUM 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.
6. PROVIDE LIGHT BRUSHED FINISH TO ALL RAMPS AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.

Q. FOOTPATHS/ SHAREDWAYS/ CYCLEWAYS

1. SAWCUT AND BREAK OUT FOOTPATHS AS SHOWN ON THE DRAWINGS
2. ALL NEW FOOTPATHS TO MATCH AND MEET FLUSH WITH EXISTING FOOTPATHS
3. PROVIDE 10mm FULL DEPTH DOWELED EXPANSION JOINTS (N12-900) EVERY 6M WITH SAW CUT DUMMY JOINTS EVERY 2m. ALL JOINTS TO BE STRAIGHT AND PERPENDICULAR TO PATH.
4. ALL EDGES TO BE ROUNDED 10mm. ALL EDGES AND JOINTS TO HAVE MIN. 50mm WIDE MARGIN.
5. PROVIDE BROOMED FINISH PERPENDICULAR TO PATH OF TRAVEL.

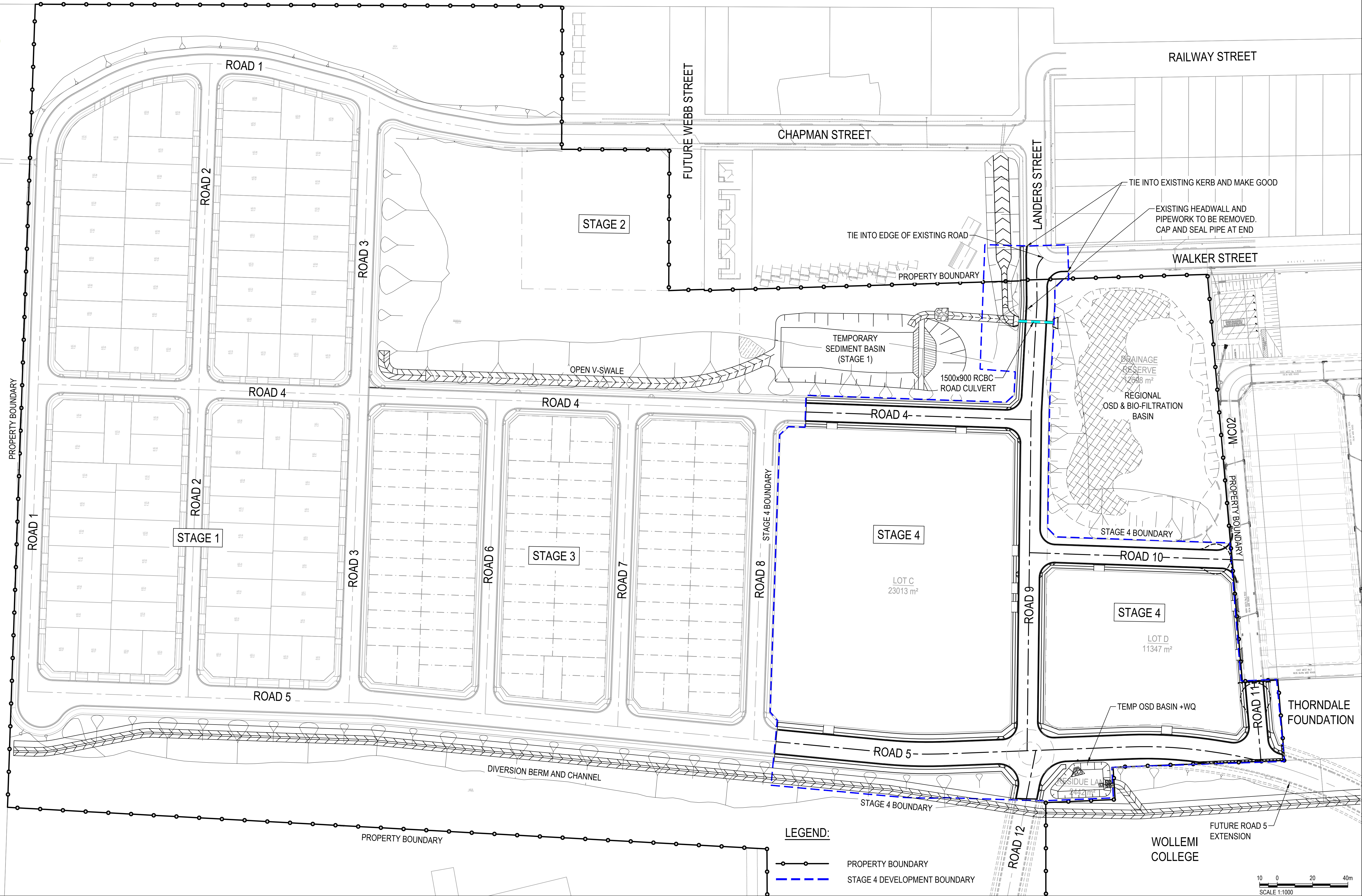
R. JOINTS

1. JOINTS IN STRUCTURES OR MEMBERS TO BE IN ACCORDANCE WITH AS 3600.
2. MASTIC JOINTS TO BE FORMED TO DETAILED THICKNESS WITH CLOSED CELL POLYETHYLENE JOINT FILLER FOR THE FULL DEPTH OF THE SECTION.
3. MASTIC JOINTS TO BE SEALED WITH SILICON JOINT SEALER TO DETAILED DIMENSIONS OVER BOND BREAKING BACKING TAPE.
4. SAWN JOINTS SHALL BE CONSTRUCTED BY SAWING A GROOVE 5mm WIDE TO ONE QUARTER THE DEPTH OF THE BASE UNO. (INITIAL CUT). SAWING TO BE DONE WITHIN 24 HOURS, WHEN THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT EXCESSIVE CHIPPING, SPALLING OR TEARING.

REV	DATE	REVISION DETAILS			APPROVED	SCALE	SIZE	PRELIMINARY NOT FOR CONSTRUCTION		PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT						
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION			R.DEKKER	NOT TO SCALE	A1	APPROVED PROJECT DIRECTOR DATE		TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT GENERAL NOTES SHEET 2 OF 2						
										</							



WESTERN SYDNEY UNIVERSITY WERRINGTON NOTRTH



LEGEND:

- PROPERTY BOUNDARY
- STAGE 4 DEVELOPMENT BOUNDARY

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CLIENT

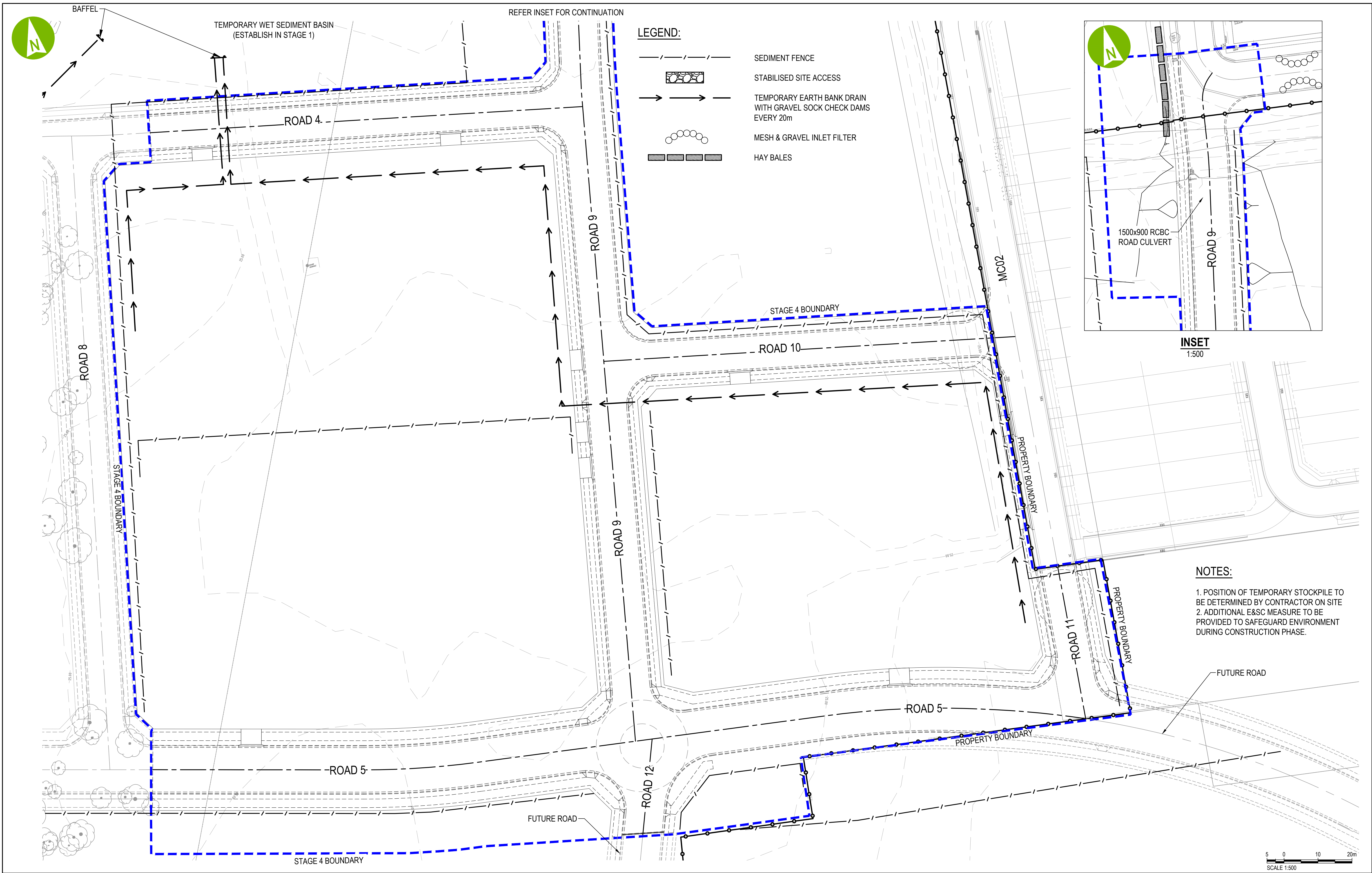


REV	DATE	REVISION DETAILS	APPROVED
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER

SCALE	SIZE
1:1000	A1
DRAWN	N.NGUYEN
DESIGNED	T.TRINH
VERIFIED	R.DEKKER

PRELIMINARY	NOT FOR CONSTRUCTION
APPROVED	PROJECT DIRECTOR
DATE	

PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW
TITLE	SOUTH WERRINGTON URBAN VILLAGE PRECINCT
DRAWING No.	241636
PROJECT No.	241636
WBS	0000
TYPE	DRG
DISC	CC
NUMBER	0704
REV	A

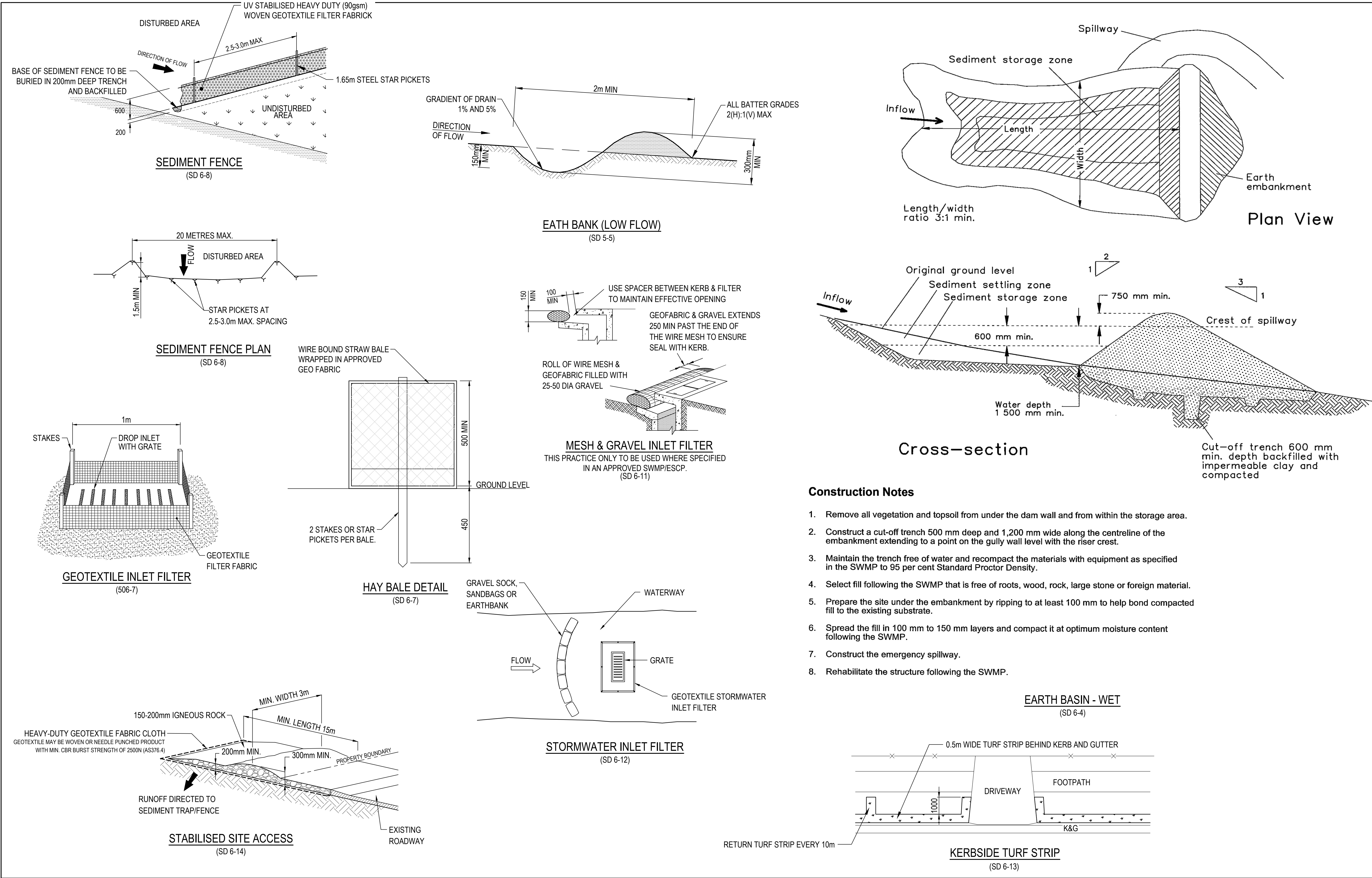


REV	DATE	REVISION DETAILS	APPROVED
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER

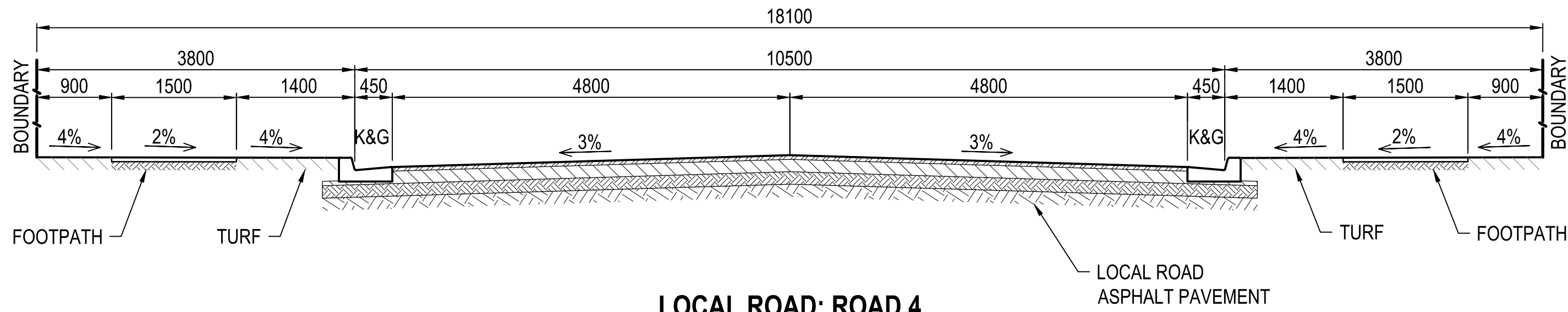
SCALE	SIZE
1:500	A1
DRAWN	N.NGUYEN
DESIGNED	T.TRINH
VERIFIED	R.DEKKER

PRELIMINARY NOT FOR CONSTRUCTION
APPROVED PROJECT DIRECTOR DATE

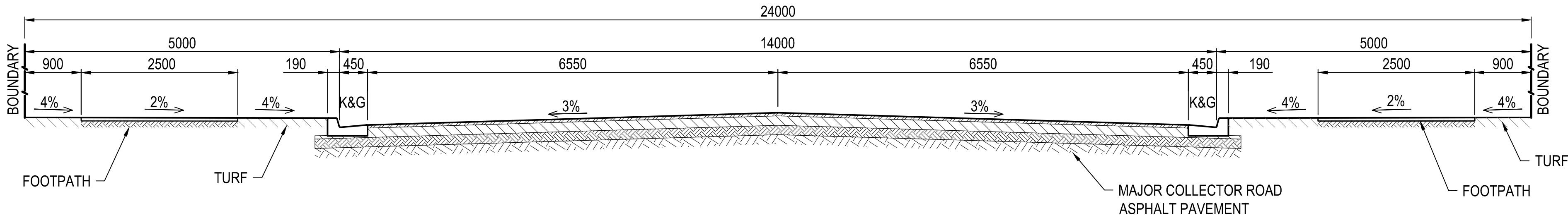
PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT
TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT EROSION AND SEDIMENT CONTROL PLAN
DRAWING No.	PROJECT No. 241636 - WBS 0000 - TYPE DRG - DISC CC - NUMBER 0705 - REV A



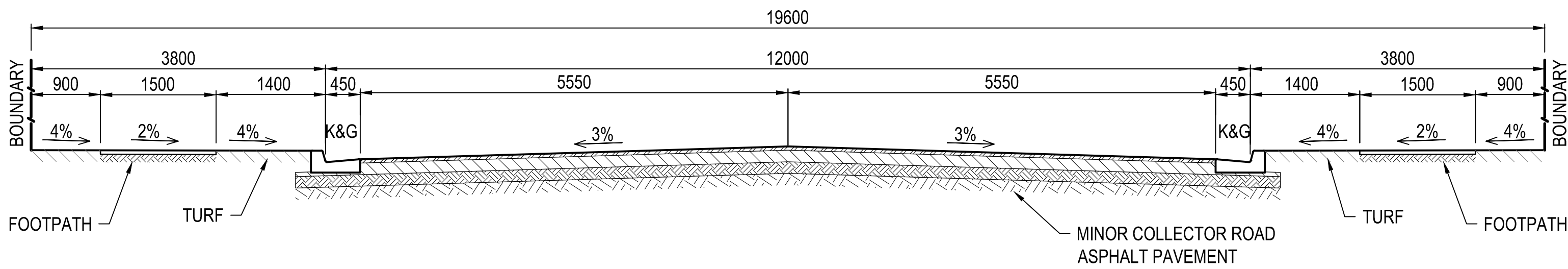
REV	DATE	REVISION DETAILS	APPROVED	SCALE	SIZE	PRELIMINARY NOT FOR CONSTRUCTION		PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT							
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER	AS SHOWN	A1			TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT EROSION AND SEDIMENT CONTROL DETAILS							
				DRAWN N.NGUYEN				APPROVED PROJECT DIRECTOR	DATE							
				DESIGNED T.TRINH												
				VERIFIED R.DEKKER												
								DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV		
									241636	- 0000	- DRG	- CC	- 0708	- A		



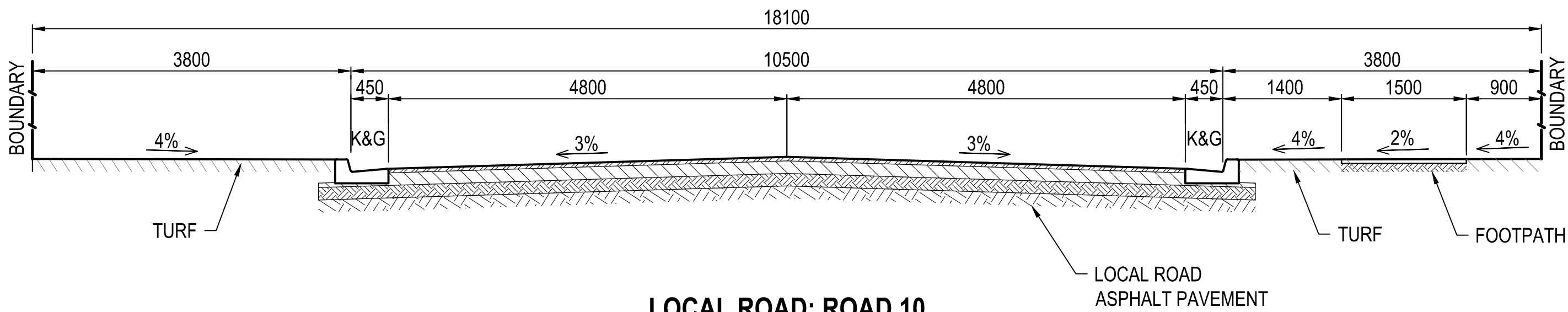
LOCAL ROAD: ROAD 4
TYPICAL SECTION
1:50



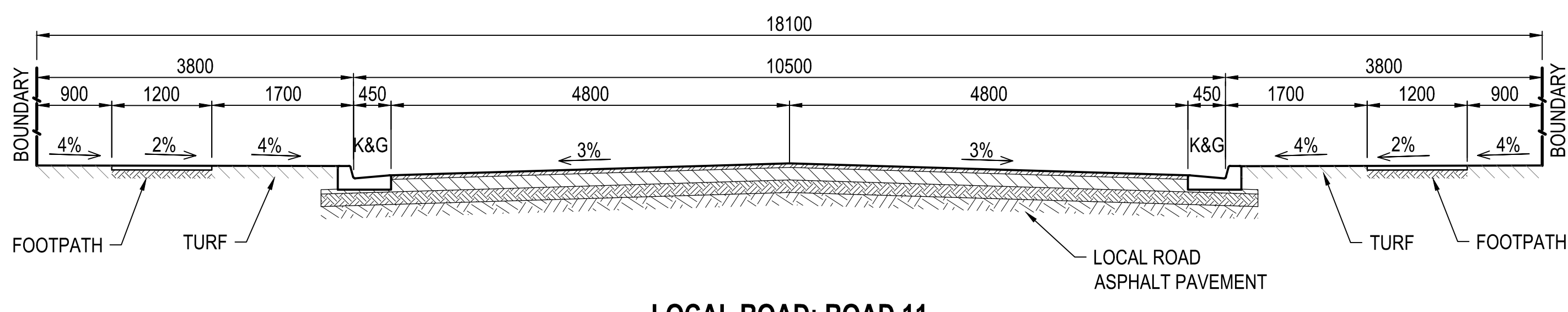
MAJOR COLLECTOR ROAD: ROAD 5
TYPICAL SECTION
1:50



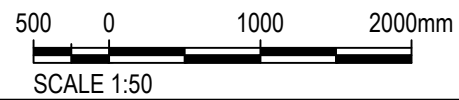
MINOR COLLECTOR ROAD: ROAD 9
TYPICAL SECTION
1:50



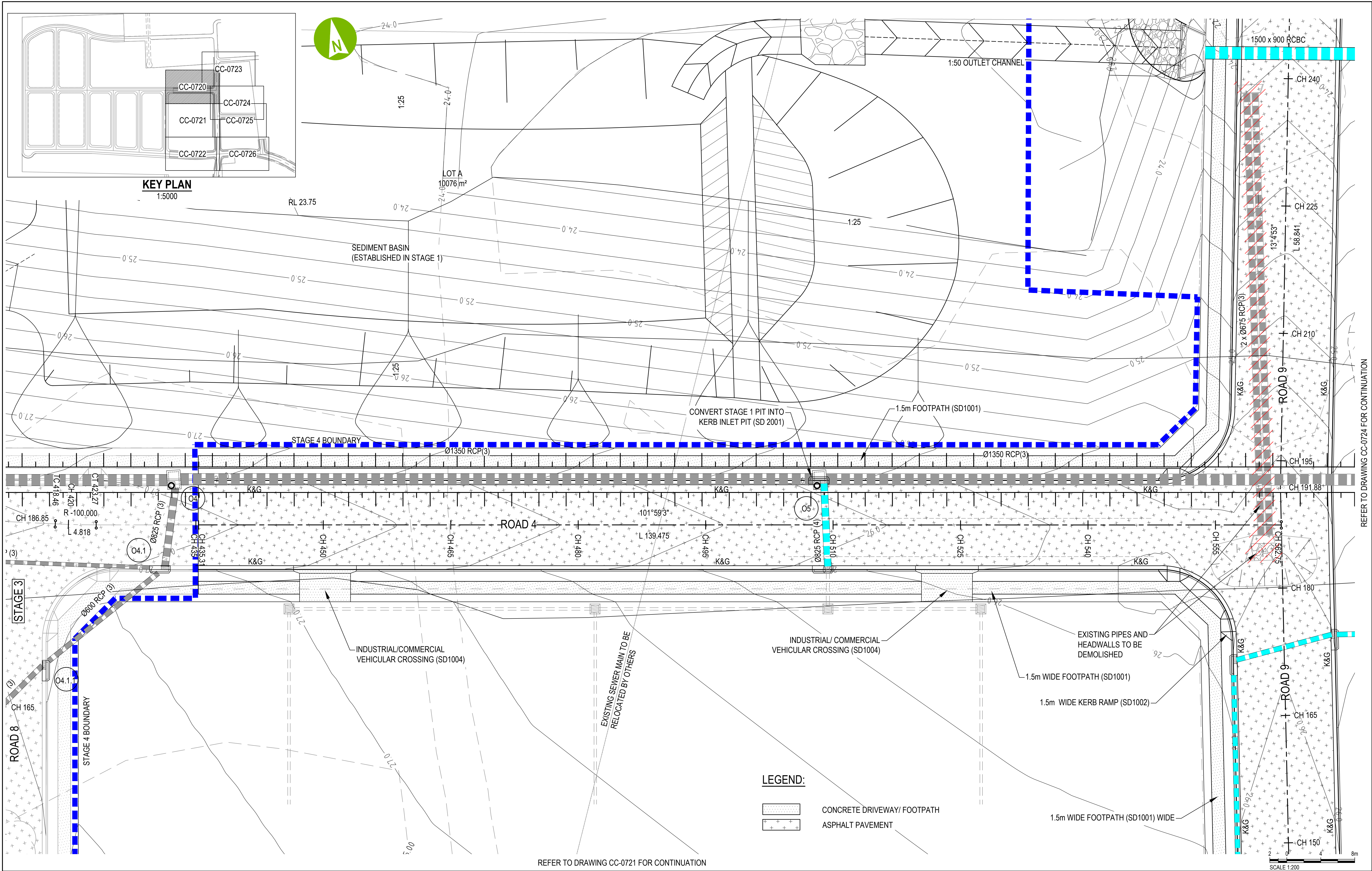
LOCAL ROAD: ROAD 10
TYPICAL SECTION
1:50



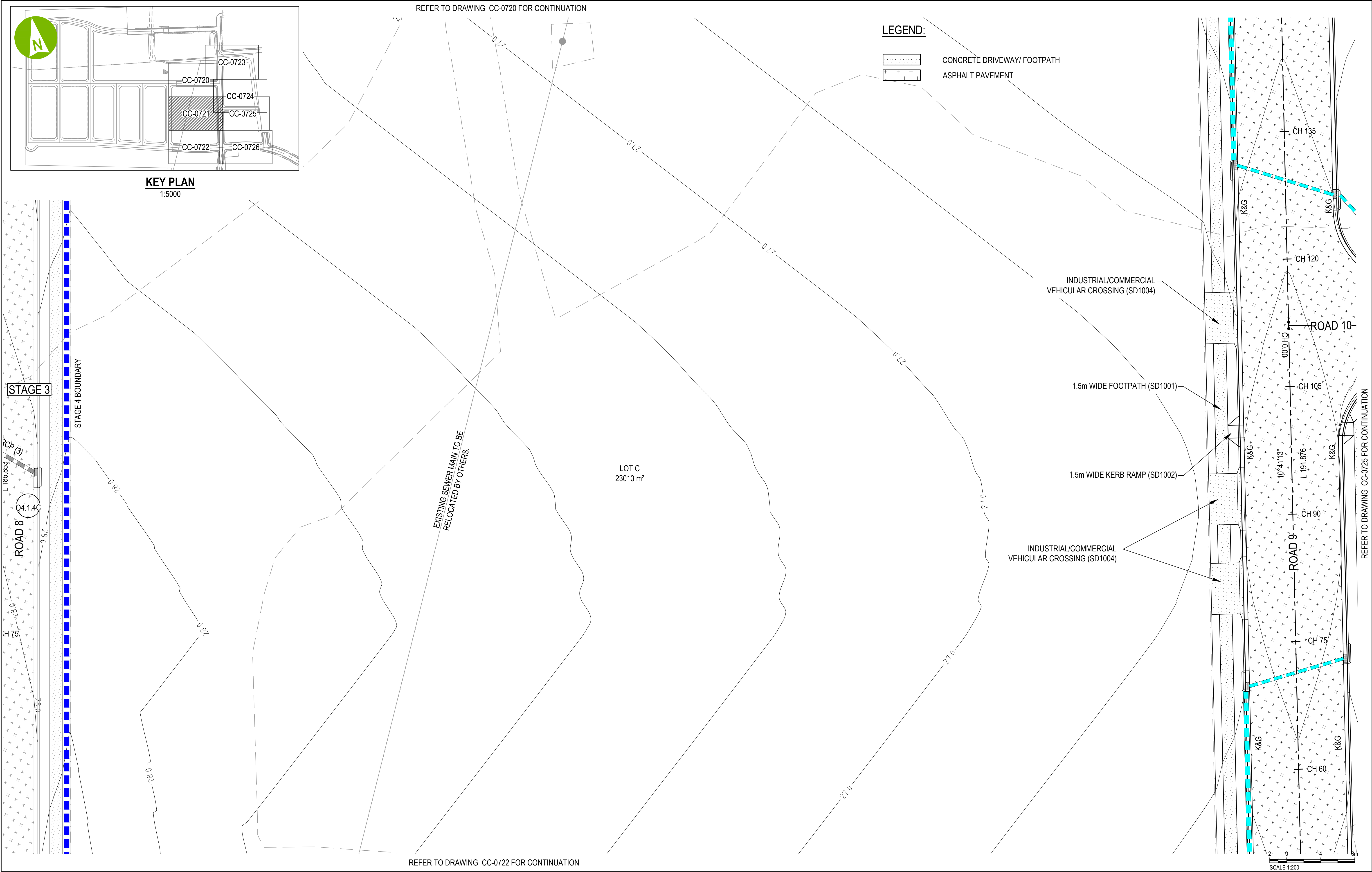
LOCAL ROAD: ROAD 11
TYPICAL SECTION
1:50



CLIENT		REV	DATE	REVISION DETAILS	APPROVED	SCALE	SIZE	PRELIMINARY NOT FOR CONSTRUCTION		PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT										
		A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER	1:50	A1	APPROVED PROJECT DIRECTOR DATE		TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT TYPICAL ROAD CROSS SECTION										
						DRAWN N.NGUYEN				DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV					
						DESIGNED T.TRINH					241636	-	0000	-	DRG	-	CC	-	0711	-	A
						VERIFIED R.DEKKER															



CLIENT		REV	DATE	REVISION DETAILS	APPROVED	SCALE	SIZE	PRELIMINARY NOT FOR CONSTRUCTION		PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT										
		A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER	1:200	A1	APPROVED PROJECT DIRECTOR DATE		TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT GENERAL ARRANGEMENT PLAN SHEET 1 OF 7										
										DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV					
											241636	-	0000	-	DRG	-	CC	-	0720	-	A



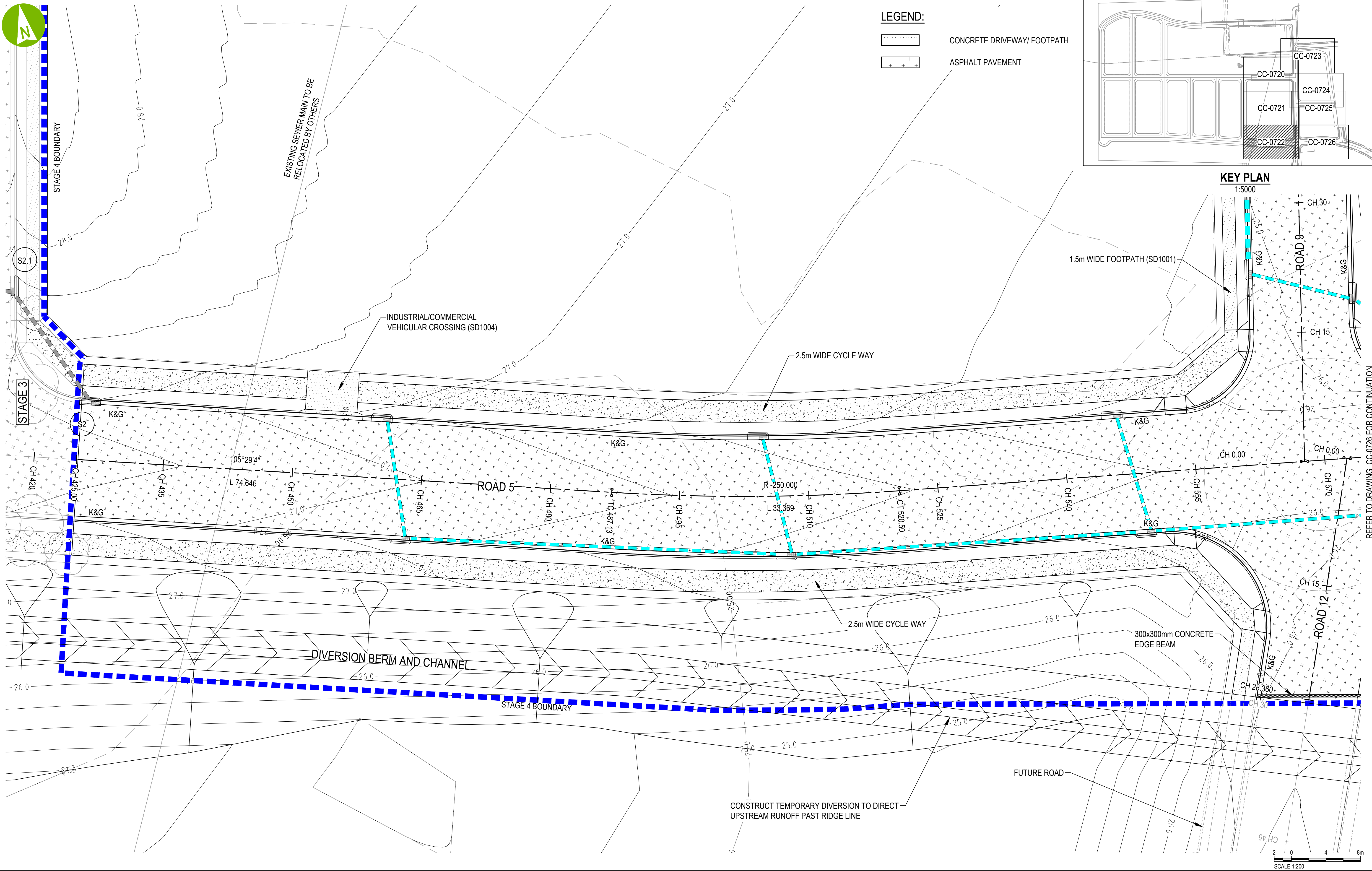
REV	DATE	REVISION DETAILS	APPROVED
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER

SCALE	SIZE
1:200	A1
DRAWN	
N.NGUYEN	
DESIGNED	
T.TRINH	
VERIFIED	
R.DEKKER	

PRELIMINARY NOT FOR CONSTRUCTION	
APPROVED	
PROJECT DIRECTOR	DATE

PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT					
TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT GENERAL ARRANGEMENT PLAN SHEET 2 OF 7					
DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV
241636	-	0000	-	DRG	-	CC - 0721 - A

REFER TO DRAWING CC-0721 FOR CONTINUATION



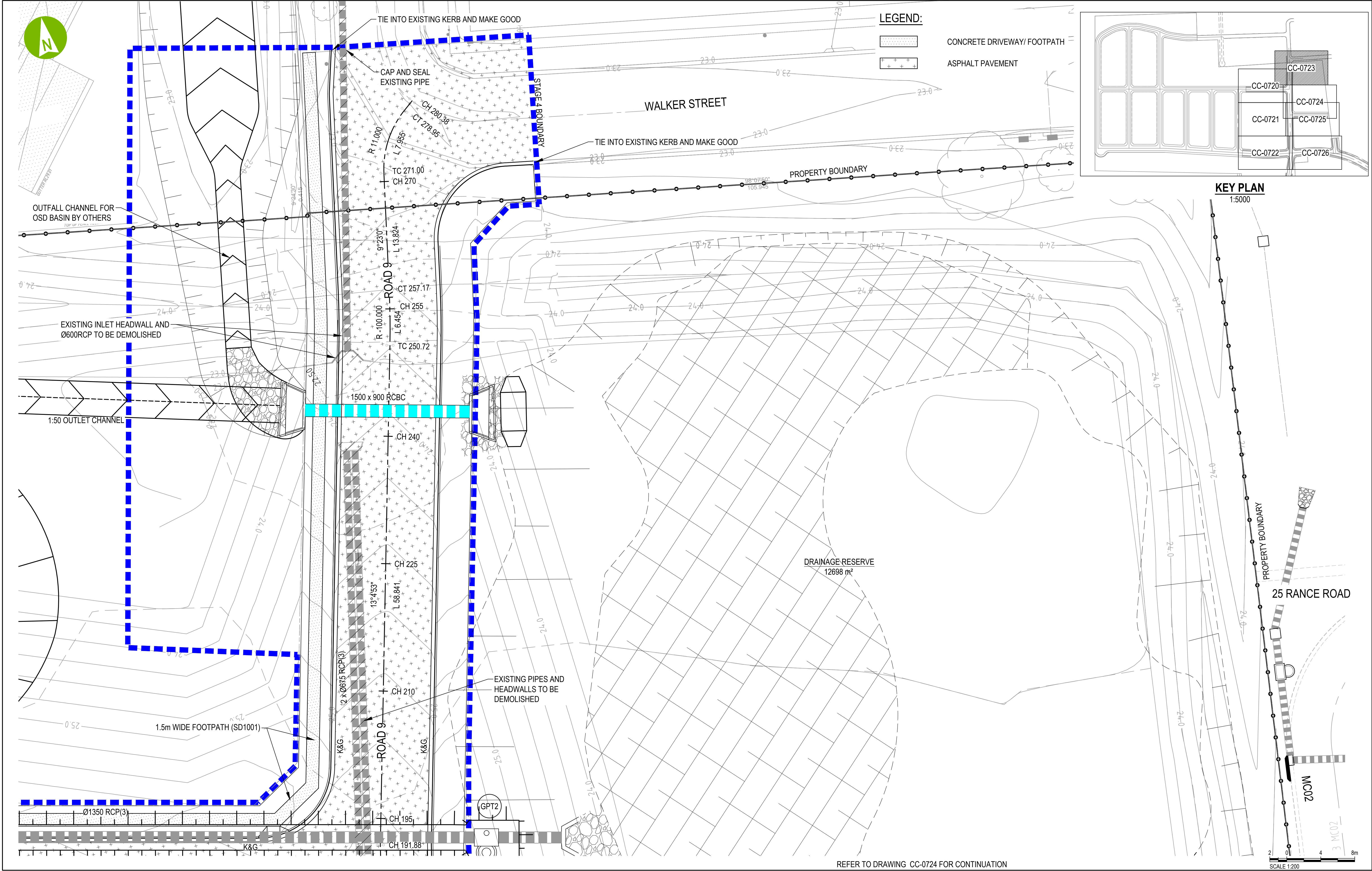
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REV	DATE	REVISION DETAILS	APPROVED
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER

SCALE	SIZE
1:200	A1
DRAWN	
N.NGUYEN	
DESIGNED	
T.TRINH	
VERIFIED	
R.DEKKER	

PRELIMINARY	
NOT FOR CONSTRUCTION	
APPROVED	
PROJECT DIRECTOR	DATE

PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT
TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT GENERAL ARRANGEMENT PLAN SHEET 3 OF 7
DRAWING No.	PROJECT No. 241636 - WBS 0000 - TYPE DRG - DISC CC - NUMBER 0722 - REV A

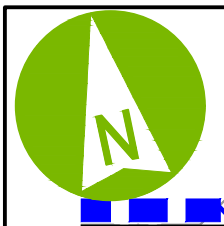


REV	DATE	REVISION DETAILS	APPROVED
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER

SCALE	SIZE
1:200	A1
DRAWN	N.NGUYEN
DESIGNED	T.TRINH
VERIFIED	R.DEKKER

PRELIMINARY	NOT FOR CONSTRUCTION
APPROVED	PROJECT DIRECTOR DATE

PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT
TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT GENERAL ARRANGEMENT PLAN SHEET 4 OF 7
DRAWING No.	PROJECT No. 241636 - WBS 0000 - TYPE DRG - DISC CC - NUMBER 0723 - REV A



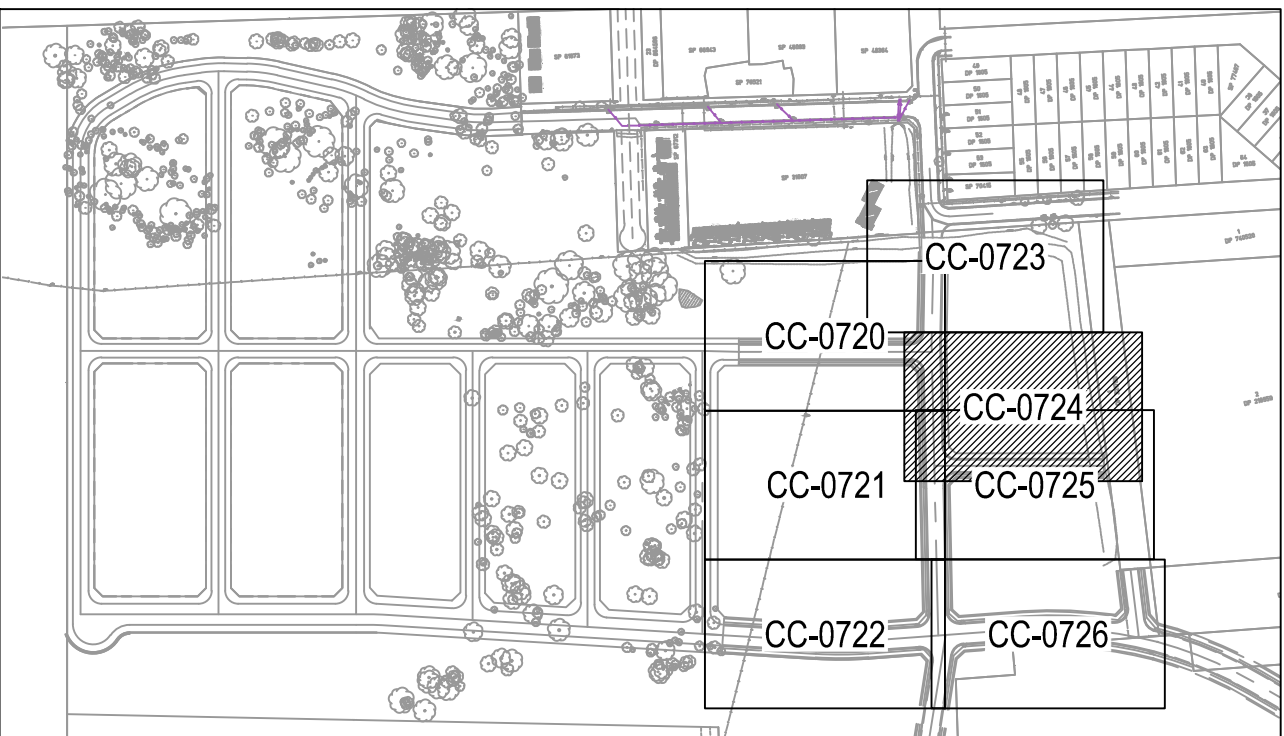
REFER TO DRAWING CC-0723 FOR CONTINUATION

LEGEND:

- CONCRETE DRIVEWAY/FOOTPATH
- ASPHALT PAVEMENT

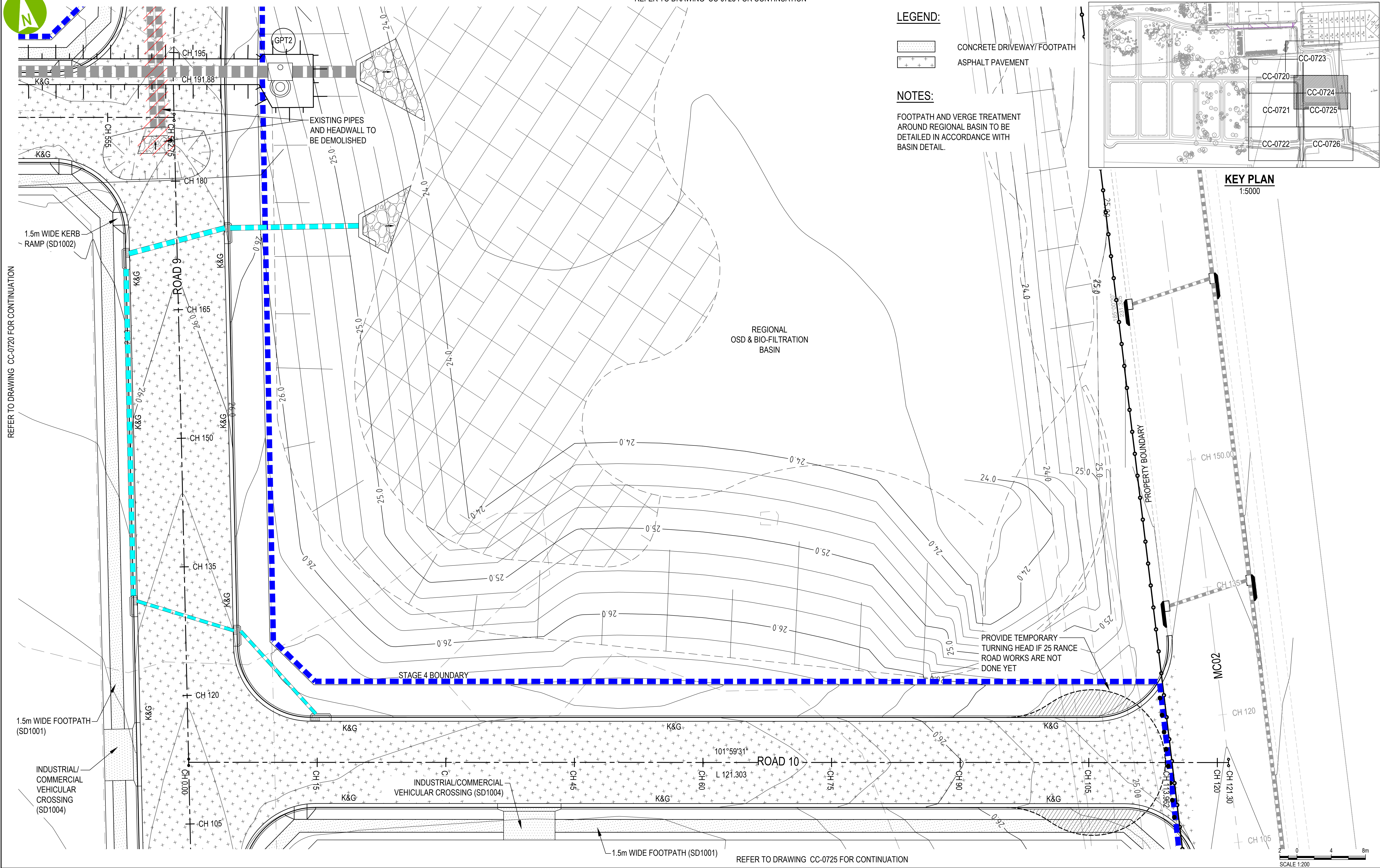
NOTES:

FOOTPATH AND VERGE TREATMENT
AROUND REGIONAL BASIN TO BE
DETAILED IN ACCORDANCE WITH
BASIN DETAIL.



KEY PLAN
1:5000

REFER TO DRAWING CC-0720 FOR CONTINUATION



REFER TO DRAWING CC-0725 FOR CONTINUATION

SCALE 1:200

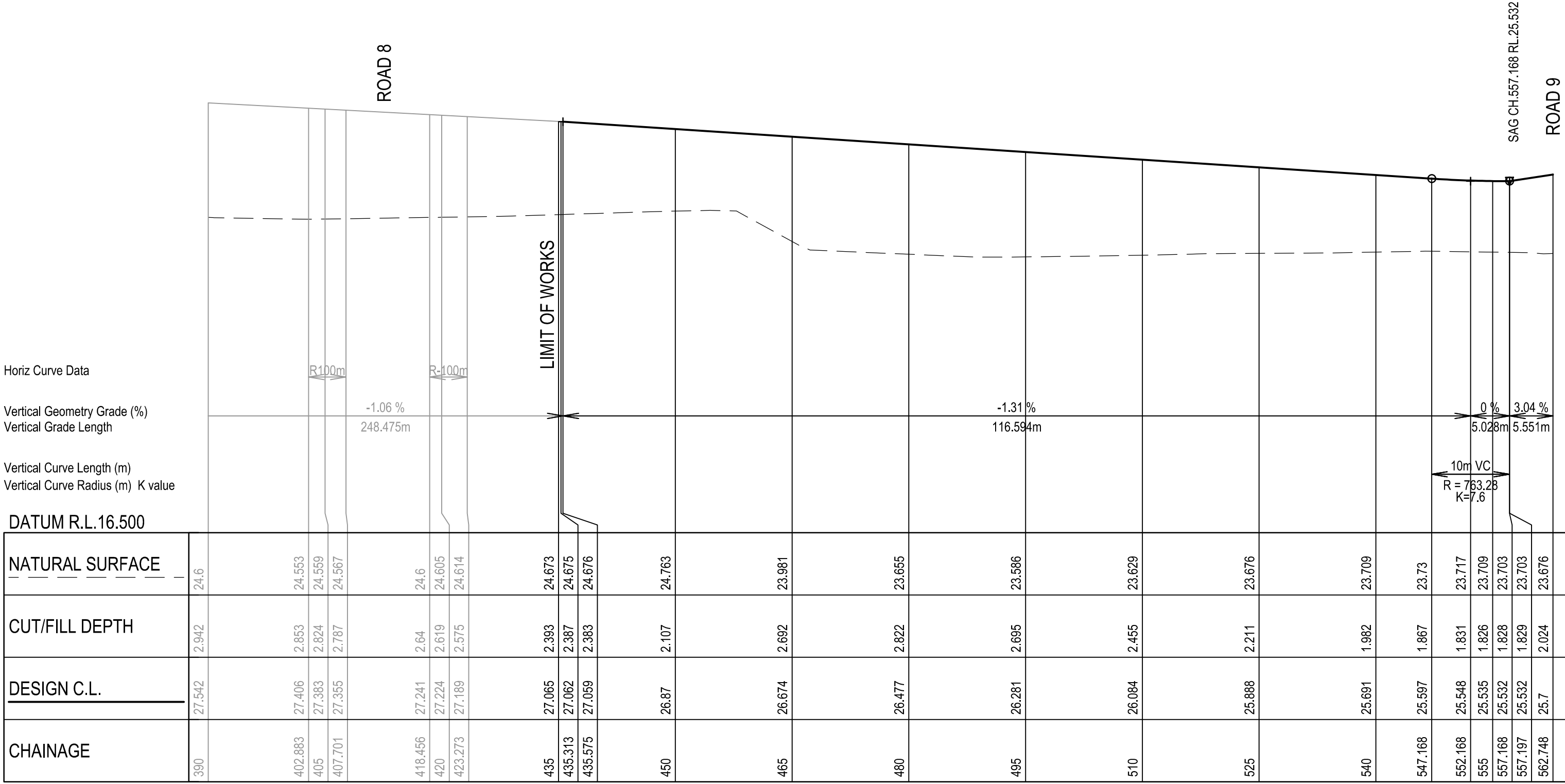
CLIENT

REV	DATE	REVISION DETAILS	APPROVED
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER

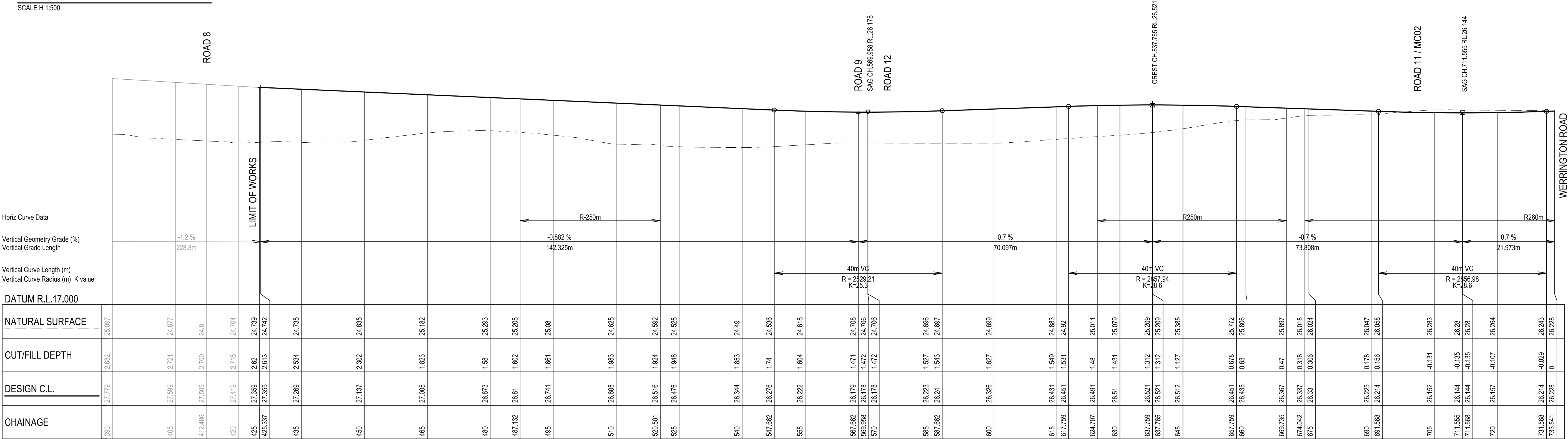
SCALE	SIZE
1:200	A1
DRAWN	N.NGUYEN
DESIGNED	T.TRINH
VERIFIED	R.DEKKER

PRELIMINARY NOT FOR CONSTRUCTION	
APPROVED PROJECT DIRECTOR	DATE

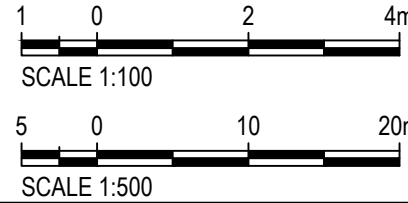
PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT
TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT GENERAL ARRANGEMENT PLAN SHEET 4 OF 7
DRAWING No.	PROJECT No. 241636 - WBS 0000 - TYPE DRG - DISC CC - NUMBER 0724 - REV A



LONGITUDINAL SECTION ROAD 4
SCALE H 1:500



LONGITUDINAL SECTION ROAD 5
SCALE H 1:500
SCALE V 1:100



REV	DATE	REVISION DETAILS	APPROVED
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER

SCALE	SIZE
AS SHOWN	A1
DRAWN	N.NGUYEN
DESIGNED	T.TRINH
VERIFIED	R.DEKKER

PRELIMINARY	NOT FOR CONSTRUCTION
APPROVED	PROJECT DIRECTOR
DATE	

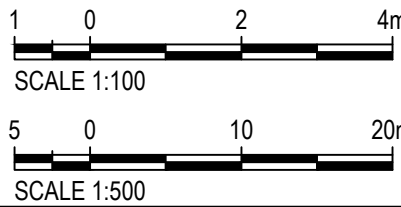
PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT
TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT ROAD LONGITUDINAL SECTION SHEET 1 OF 3
DRAWING No.	PROJECT No. 241636 - WBS 0000 - TYPE DRG - DISC CC - NUMBER 0730 - REV A

Horiz Curve Data
Vertical Geometry Grade (%)
Vertical Grade Length
Vertical Curve Length (m)
Vertical Curve Radius (m) K value

DATUM R.L. 17.500

NATURAL SURFACE		24.704		24.752	24.752	24.788	24.818	24.887	24.894	24.973	25.141	25.306	25.461	25.598	25.721	25.834	25.919	25.94
CUT/FILL DEPTH	1.477		1.231	1.23	1.207	1.205	1.215	1.262	1.271	1.342	1.324	1.309	1.304	1.317	1.344	1.381	1.446	1.525
DESIGN C.L.	26.181	25.983	25.983	25.983	25.985	26.017	26.033	26.149	26.165	26.315	26.465	26.615	26.765	26.915	27.065	27.215	27.365	27.465
CHAINAGE	0	6.729	6.755	11.755	16	16.755		26.360	30	45	60	75	90	105	120	135	150	160.03

LONGITUDINAL SECTION ROAD 12
SCALE H 1:500
SCALE V 1:100

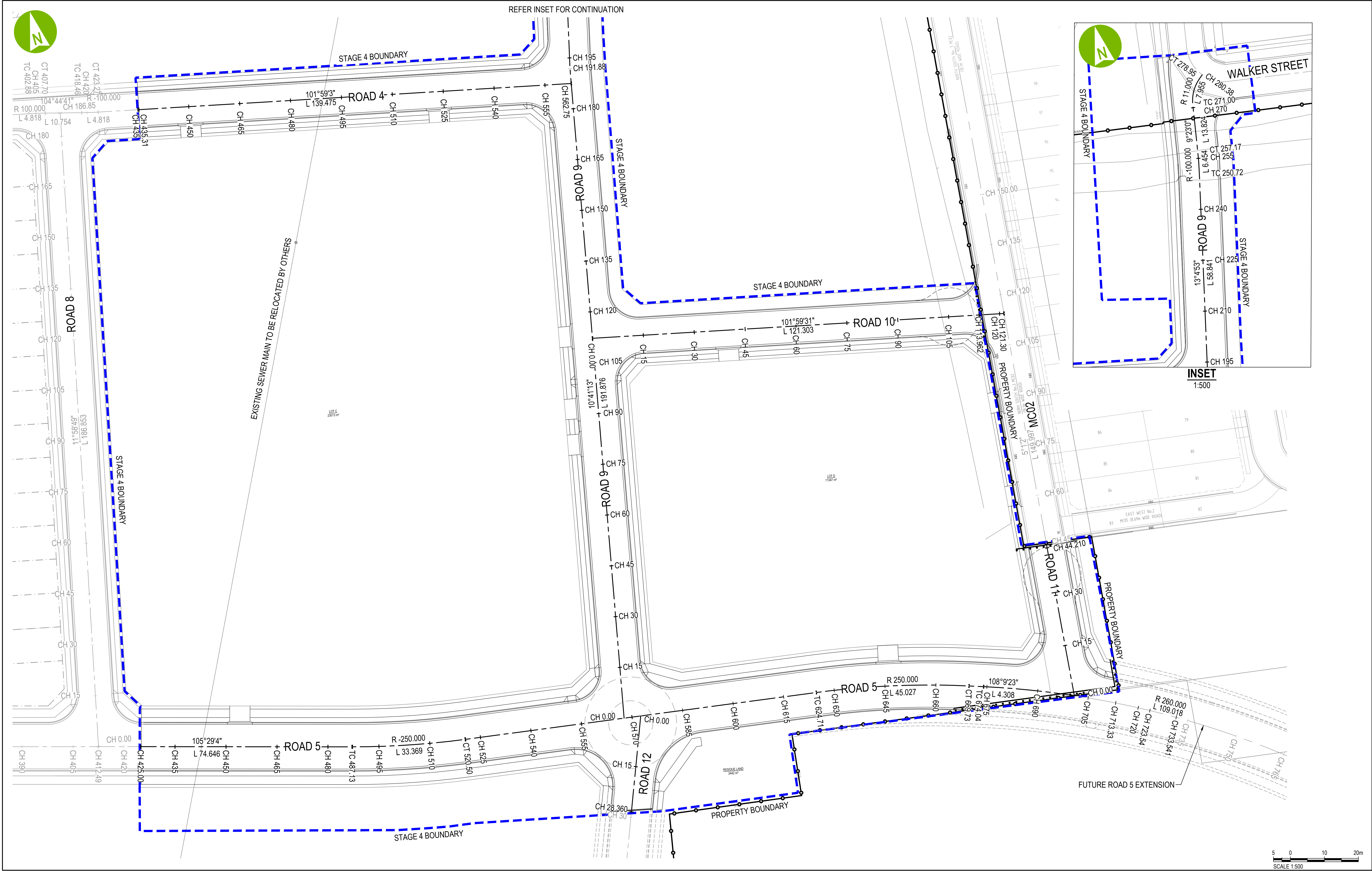


REV	DATE	REVISION DETAILS	APPROVED
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER

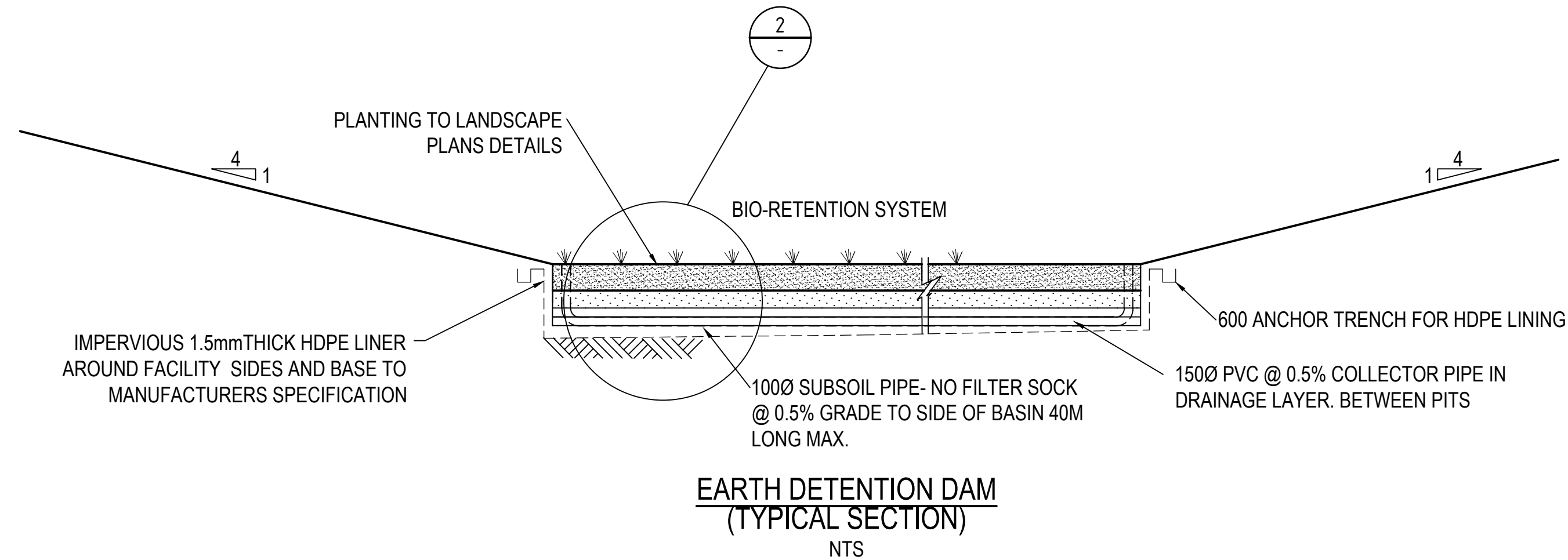
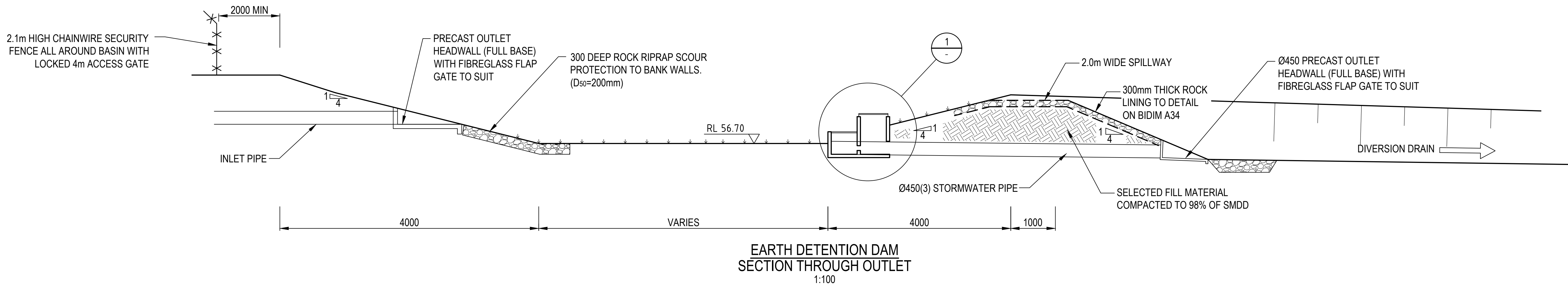
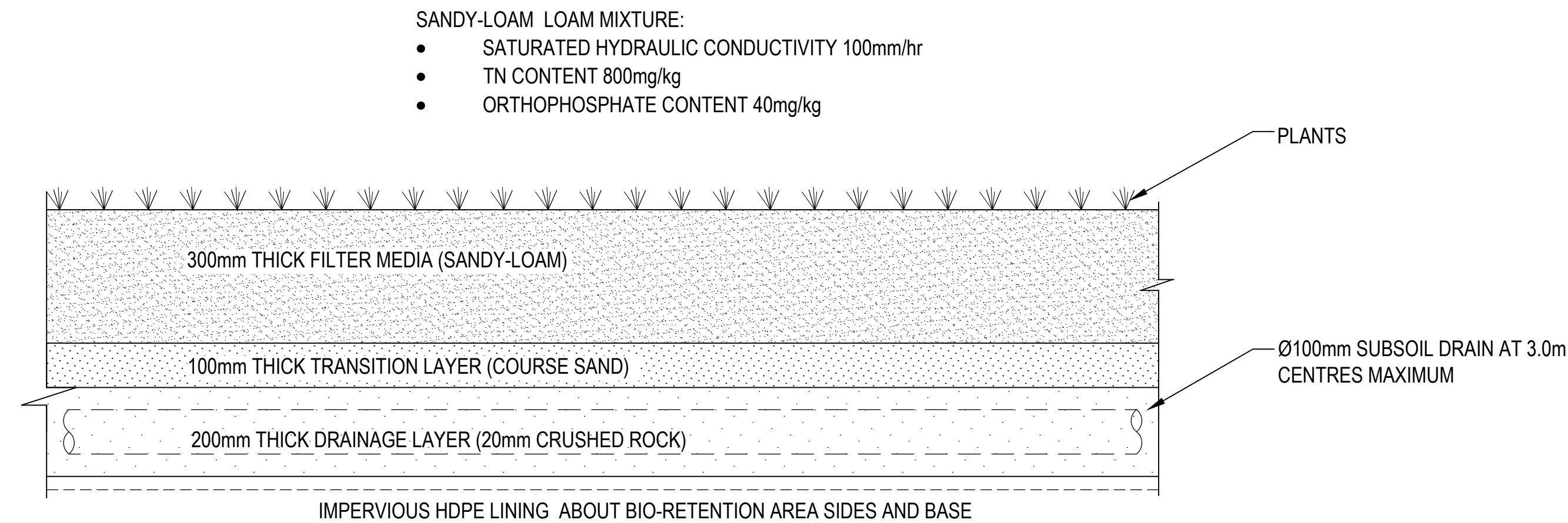
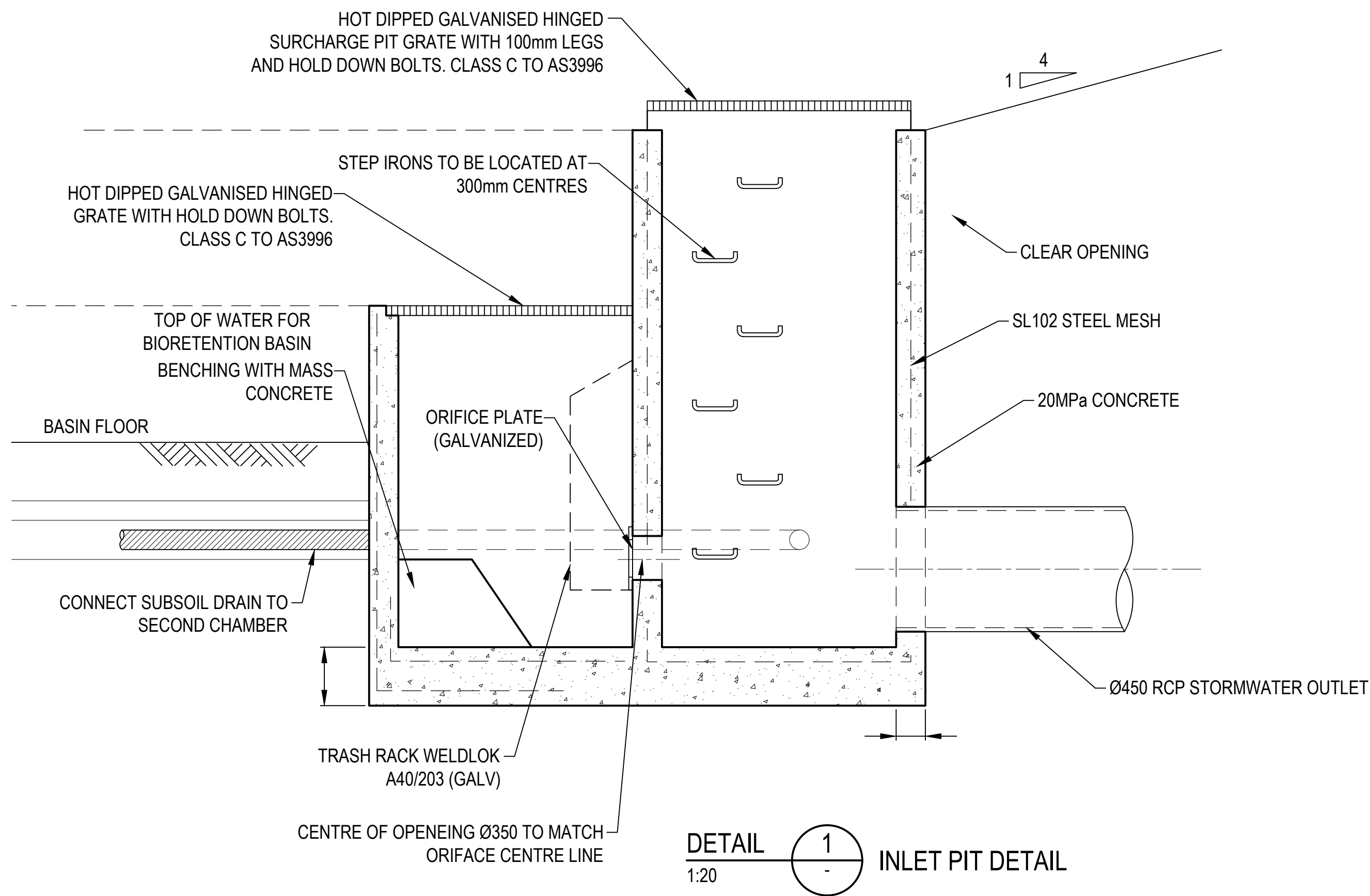
SCALE	SIZE
AS SHOWN	A1
DRAWN	
N. NGUYEN	
DESIGNED	
T. TRINH	
VERIFIED	
R. DEKKER	

PRELIMINARY NOT FOR CONSTRUCTION	
APPROVED	DATE
PROJECT DIRECTOR	

PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT					
TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT ROAD LONGITUDINAL SECTION SHEET 3 OF 3					
DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV
241636	-	0000	-	DRG	-	0732
						- A

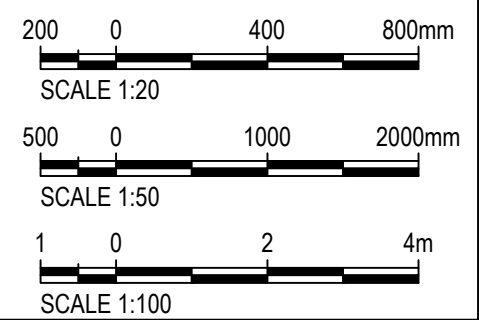


 Universal Property Group Pty Ltd	CLIENT	REV	DATE	REVISION DETAILS	APPROVED	SCALE	SIZE	PRELIMINARY NOT FOR CONSTRUCTION		PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT								
		A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER	1:500	A1												
						DRAWN N.NGUYEN		APPROVED PROJECT DIRECTOR DATE		TITLE	STAGE 4 : RESIDENTIAL DEVELOPMENT ROAD SETOUT PLAN								
						DESIGNED T.TRINH													
						VERIFIED													
						R.DEKKER													
										DRAWING No.	PROJECT No.	WBS	TYPE	DISC	NUMBER	REV			
									241636	-	0000	-	DRG	-	CC	-	0750	-	A



NOTE:
REFER TO GENERAL ARRANGEMENT PLANS FOR PLAN VIEW

- NOTES:
- BIO-RETENTION FILTER MEDIA TO BE CERTIFIED BY SUPPLIER WITH MINIMUM ACTUAL HYRAULIC CONDUCTIVITY AS DEFINED BY ASTM F1815-06 (200mm/hr).
 - BIO-FILTRATION BASIN TO BE IN ACCORDANCE WITH PENRITH CITY COUNCIL'S "WSUD TECHNICAL GUIDELINES" AND POLICY.



REV	DATE	REVISION DETAILS	APPROVED
A	29.06.17	ISSUED FOR DEVELOPMENT APPLICATION	R.DEKKER

SCALE	SIZE
AS SHOWN	A1
DRAWN	
DESIGNED	
VERIFIED	

PRELIMINARY NOT FOR CONSTRUCTION	
APPROVED	DATE
PROJECT DIRECTOR	

PROJECT	16 CHAPMAN STREET, WERRINGTON, NSW SOUTH WERRINGTON URBAN VILLAGE PRECINCT
TITLE	STAGE 4: RESIDENTIAL DEVELOPMENT TEMPORARY OSD BASIN DETAIL/SECTION
DRAWING No.	PROJECT No. 241636 - WBS 0000 - TYPE DRG - DISC CC - NUMBER 0770 - REV A