

UNREGISTERED PLAN OF SUBDIVISION BY MR. SURVEYOR
BRIAN DEWING DATED 5 JUNE 2009 REF: ES46-5174DP

100 80 60 40 20 0 100 200
1:4000 @ A3



Project: PLAN OF PROPOSED SUBDIVISION OF
LOT 1 D.P.33753, LOT 1 D.P.532379, LOTS 3 & 4 D.P.1017480, LOT 1, 2, 4, 5 & 6
D.P.1020994 & PROPOSED LOT 11 IN UNREGISTERED PLAN OF SUBDIVISION
BY BRIAN DEWING DATED 5-6-09, REF: ES46-5174DP, AT NORTH PENRITH

Principal: LANDCOM			
Scale: 1:4000	Date: 27/10/2010	Council Ref.	
Calc's: G.J.H.	Datum: N/A	L.G.A. PENRITH	
Drawn: G.W.E.	Proj.Man: G.J.H.	UBD Ref.: 163 KB	

CRAIG & RHODES
SURVEYORS PLANNERS CIVIL & STRUCTURAL ENGINEERS

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Approved
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Sheet No.	01	of	02	Sheets
Our Ref.	072-10			
Dir.	Z:1072-10			
Dwg. (Rev.)	07210L03 [00]			

**LOT TYPE**

RESIDENTIAL LOTS	106
SUPER LOTS	6
OPEN SPACE LOTS	2
INDUSTRIAL LOT	1
SEWER PUMPING STATION LOT	1
COMMUNITY PAVILION LOT	1
TOWN CENTRE LOT (STAGE 2A)	1
EASTERN RESIDUE LOT (STAGE 2C)	1
WESTERN RESIDUE LOT (STAGE 2B + 2D)	1

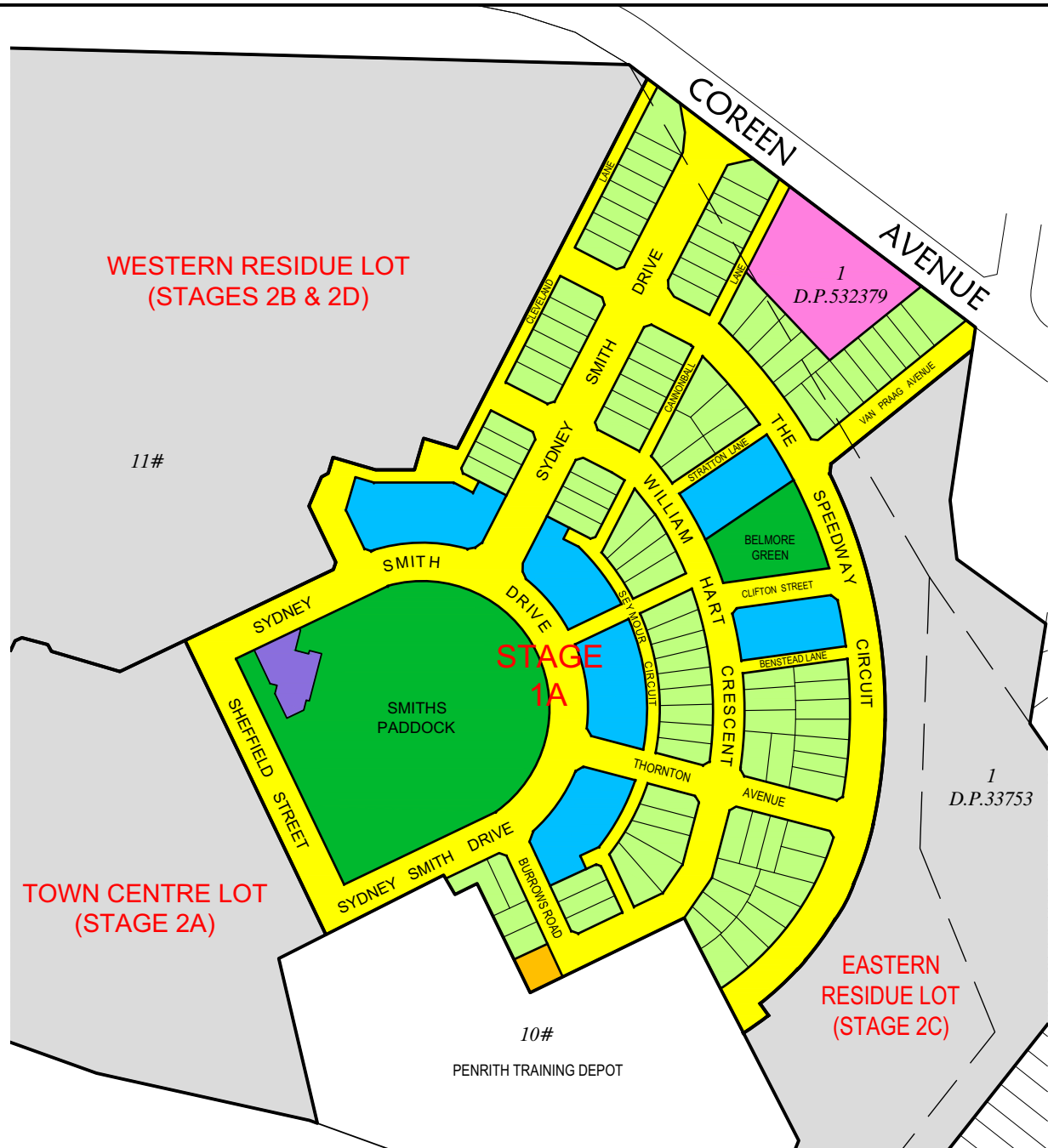
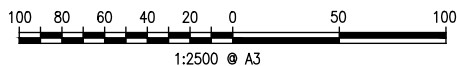
TOTAL

No. LOTS

120

SHADING

UNREGISTERED PLAN OF SUBDIVISION BY MR. SURVEYOR
BRIAN DEWING DATED 5 JUNE 2009 REF: ES46-5174DP



Project: PLAN OF PROPOSED SUBDIVISION OF
LOT 1 D.P.33753, LOT 1 D.P.532379, LOTS 3 & 4 D.P.1017480, LOT 1, 2, 4, 5 &
6 D.P.1020994 & PROPOSED LOT 11 IN UNREGISTERED PLAN OF
SUBDIVISION BY BRIAN DEWING DATED 5-6-09, REF: ES46-5174DP. AT
NORTH PENRITH

Principal:			
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		Datum	N/A
		Council Ref.	L.G.A. PENRITH
Calc's	G.J.H.	Drawn	G.W.E.
		Proj.Man.	G.J.H.
		UBD Ref.	163 KB

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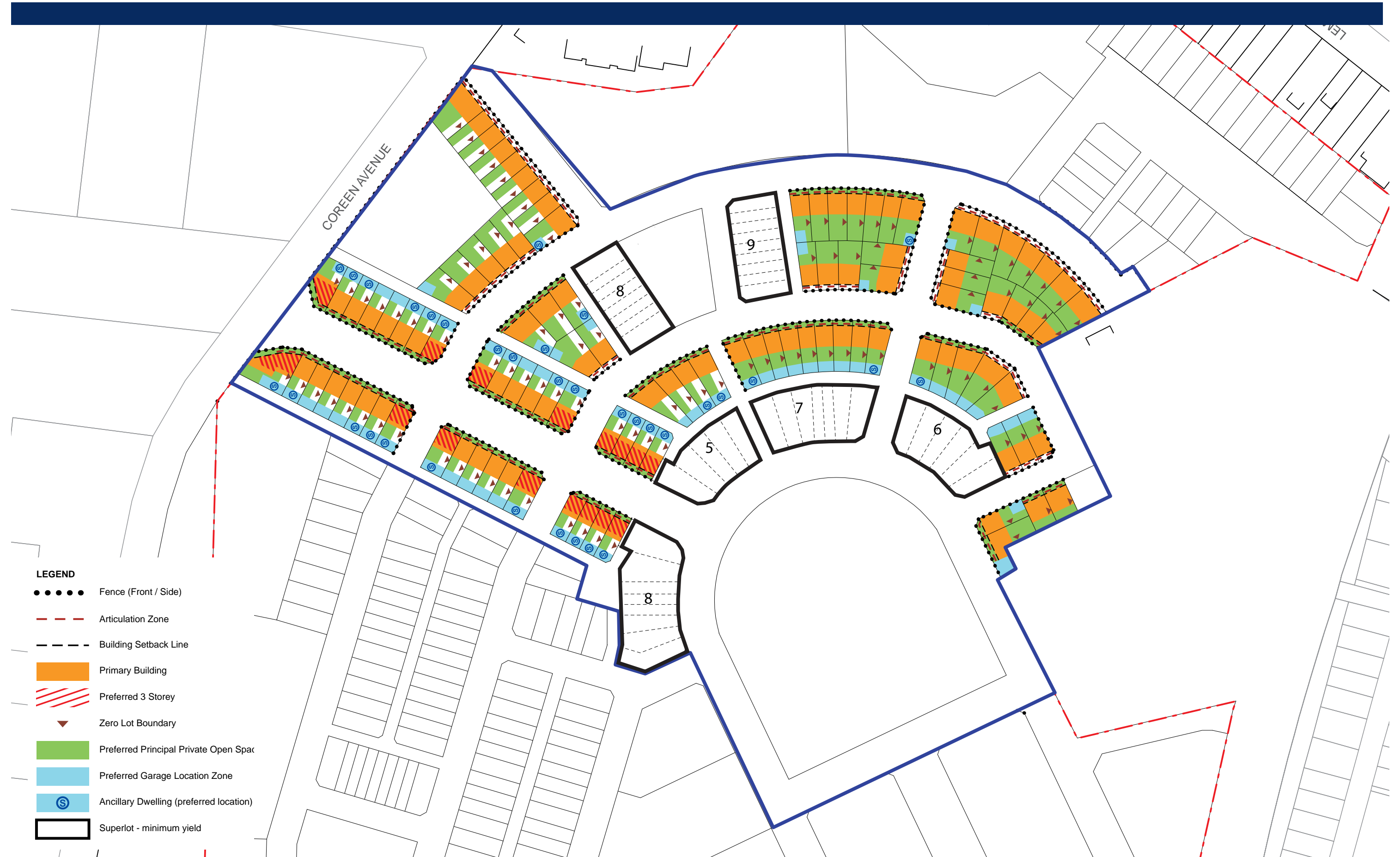
ABN 77 050 209 991
Level 4, Suite 400
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EPPING NSW 2121
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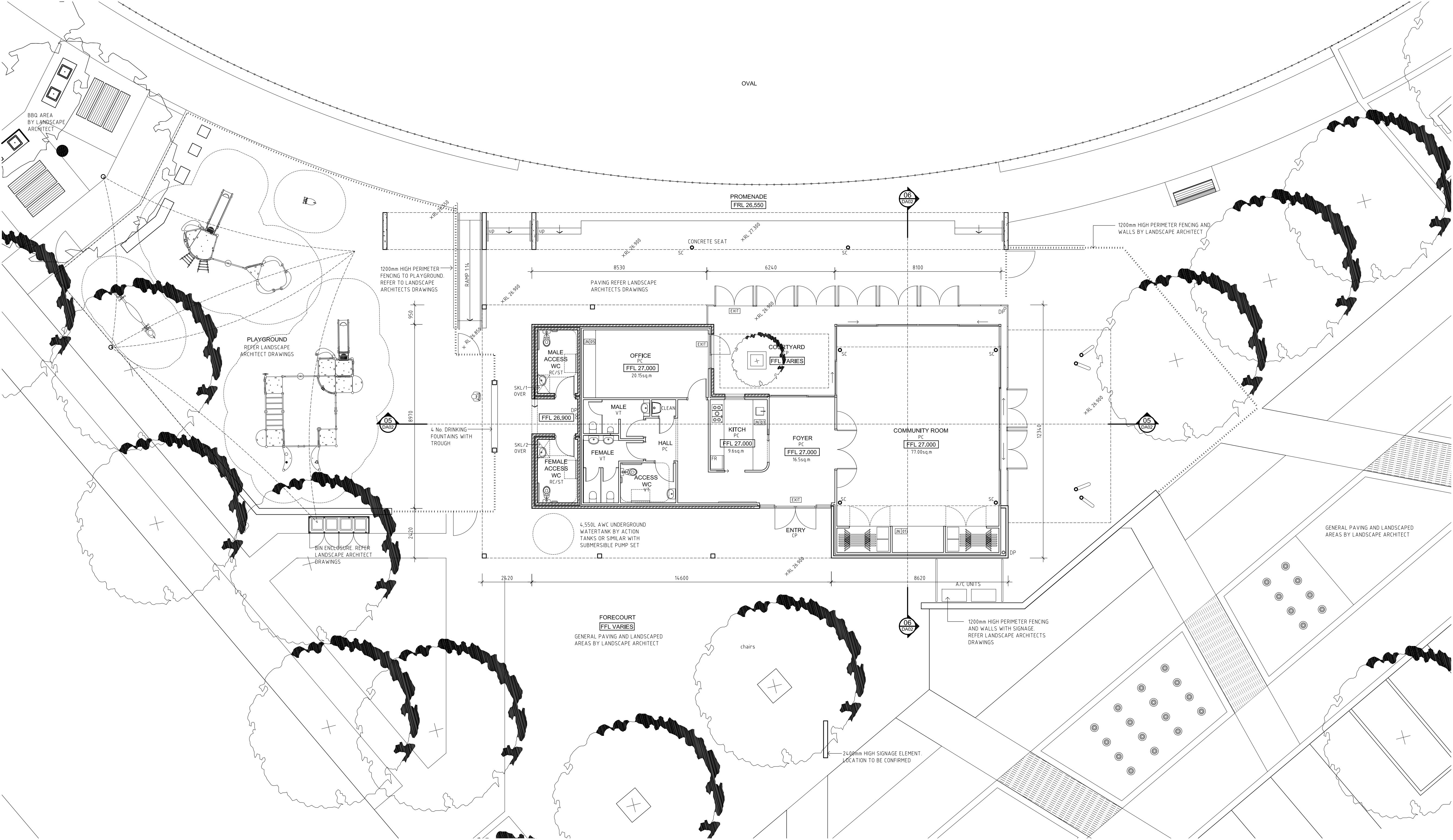
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Sheet No.	02	of	02	Sheets
Our Ref.	072-10			
Dir.	Z:072-10			
Dwg. (Rev)	07210L03 [00]			

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Abbreviations		Legend	
BR/FF	Face Brickwork		110mm Thk Brick Wall
BL	Blockwork		Cavity Brick Wall
CP	Concrete Paver		Thickness as Indicated
CR	Cement Render		Thickness as Indicated
DP	Downpipe		110mm Thk Block Wall
FC	Fibre Cement Sheetting		190mm Thk Block Wall
FG	Fixed Glazing		Thickness as Indicated
GD	Glass Door		90mm Thk Timber Stud Wall
JN	Joinery Number		Concrete
MBS	Metal Roof Sheetting		Earth
PCP	Precast Concrete Panel		Fill
PC	Polished Concrete		Door Reference Number
RC	Reinforced Concrete		Window Reference Number
SC	Steel Column		Skylight Reference Number
SKL	Skylight		X IEJRL 0.00 Existing Spot RL
ST	Steel Trowel Finish		FFL 0.00 Proposed FFL
T&G	Tongue & Groove Timber Flooring		X RL 0.00 Proposed Spot RL
VT	Vitrified Tile		
/P	Paint		

NSW Nominated Architects: Robert Denton Reg. No. 5782, Alex Kibbale Reg. No. 6015
Do not scale drawings. Verify all dimensions on site. Notify architect of all discrepancies

Rev	Date	Description	Checked	Auth.
P1	08.10.10	ISSUE FOR PRICING	DS	DS
A	15.10.10	PROJECT APPLICATION	DS	DS
B	25.10.10	AMENDED PLAN	DS	DS

Project
**THE CRICKETERS PAVILION,
NORTH PENRITH**

Drawing Title
GROUND FLOOR PLAN

Proj. Dir	Proj. Arch	Drawn
MJ	DS	DS/JS
Job No.	Date	Scale
090152	OCT 2010	1:100 @ A1

Drawing No.	Revision
AR.DA.01	B

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NORTH PENRITH

STAGE 1 PROJECT APPLICATION DRAWINGS



AERIAL IMAGE COUTESY OF NearMaps

LOCALITY PLAN
NTS

DRAWING LIST

301015-00NP-ST1-F01	TITLE SHEET
301015-00NP-ST1-F02	CONCEPT ROAD PLAN
301015-00NP-ST1-F03	CONCEPT GRADING PLAN
301015-00NP-ST1-F04	CONCEPT BULK EARTHWORKS PLAN
301015-00NP-ST1-F04a	DEMOLITION PLAN
301015-00NP-ST1-F05	CONCEPT ROAD LONG SECTIONS SHEET 1 OF 4
301015-00NP-ST1-F06	CONCEPT ROAD LONG SECTIONS SHEET 2 OF 4
301015-00NP-ST1-F07	CONCEPT ROAD LONG SECTIONS SHEET 3 OF 4
301015-00NP-ST1-F08	CONCEPT ROAD LONG SECTIONS SHEET 4 OF 4
301015-00NP-ST1-F09	CONCEPT ROAD TYPICAL CROSS SECTIONS
301015-00NP-ST1-F10	COREEN AVENUE CONCEPT ROUNDABOUT INTERSECTION
301015-00NP-ST1-F11	CONCEPT STORMWATER DRAINAGE PLAN
301015-00NP-ST1-F12	CONCEPT SERVICING NETWORK
301015-00NP-ST1-F13	SEDIMENT AND EROSION CONTROL PLAN
301015-00NP-ST1-F14	SEDIMENT AND EROSION CONTROL DETAILS



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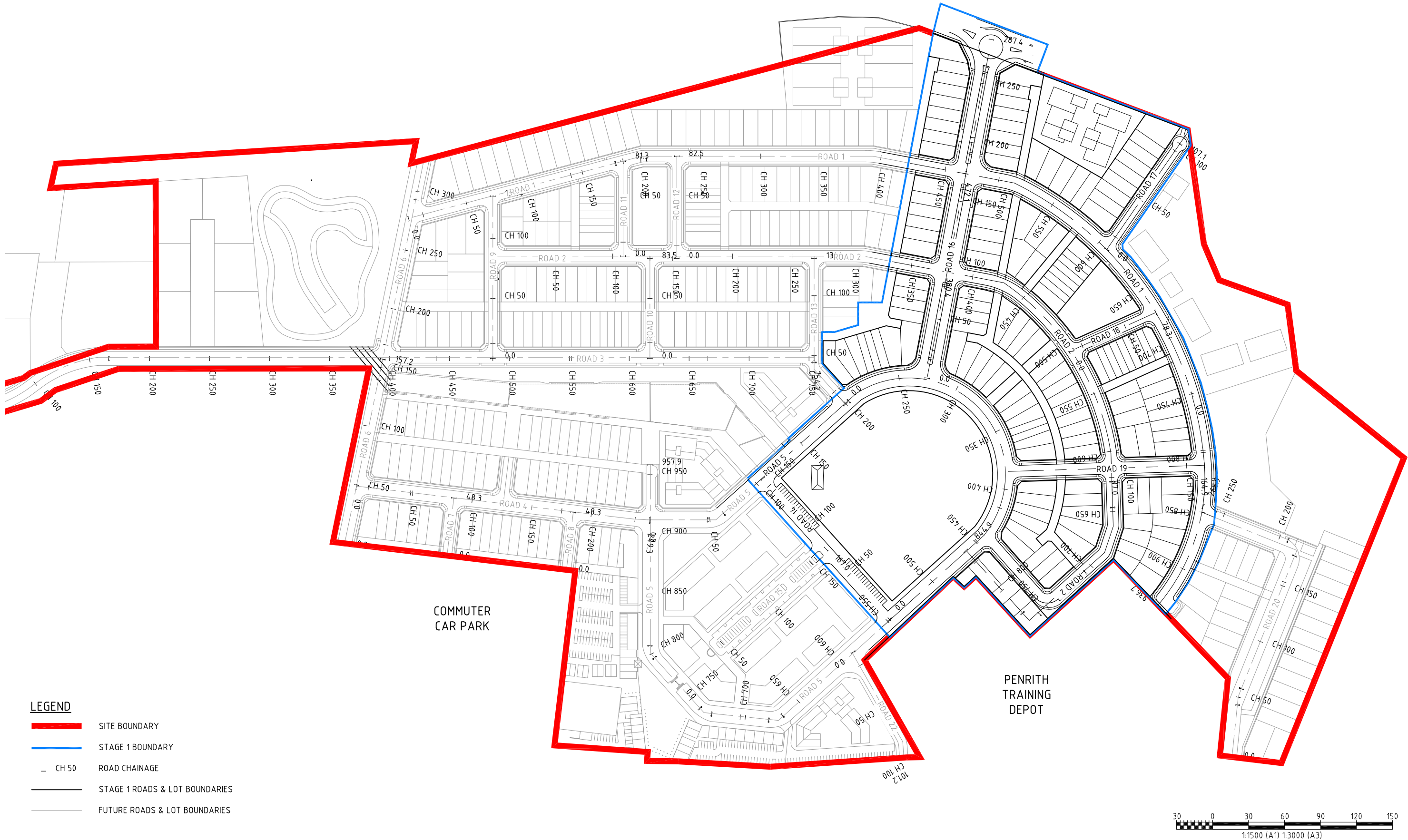


B	27.10.10	FINAL
A	10.09.10	ISSUED FOR STAGE 1 PROJECT APPLICATION
ISSUE	DATE	ISSUE DESCRIPTION



NORTH PENRITH
STAGE 1 PROJECT APPLICATION
TITLE SHEET
301015-00NP-ST1-F01

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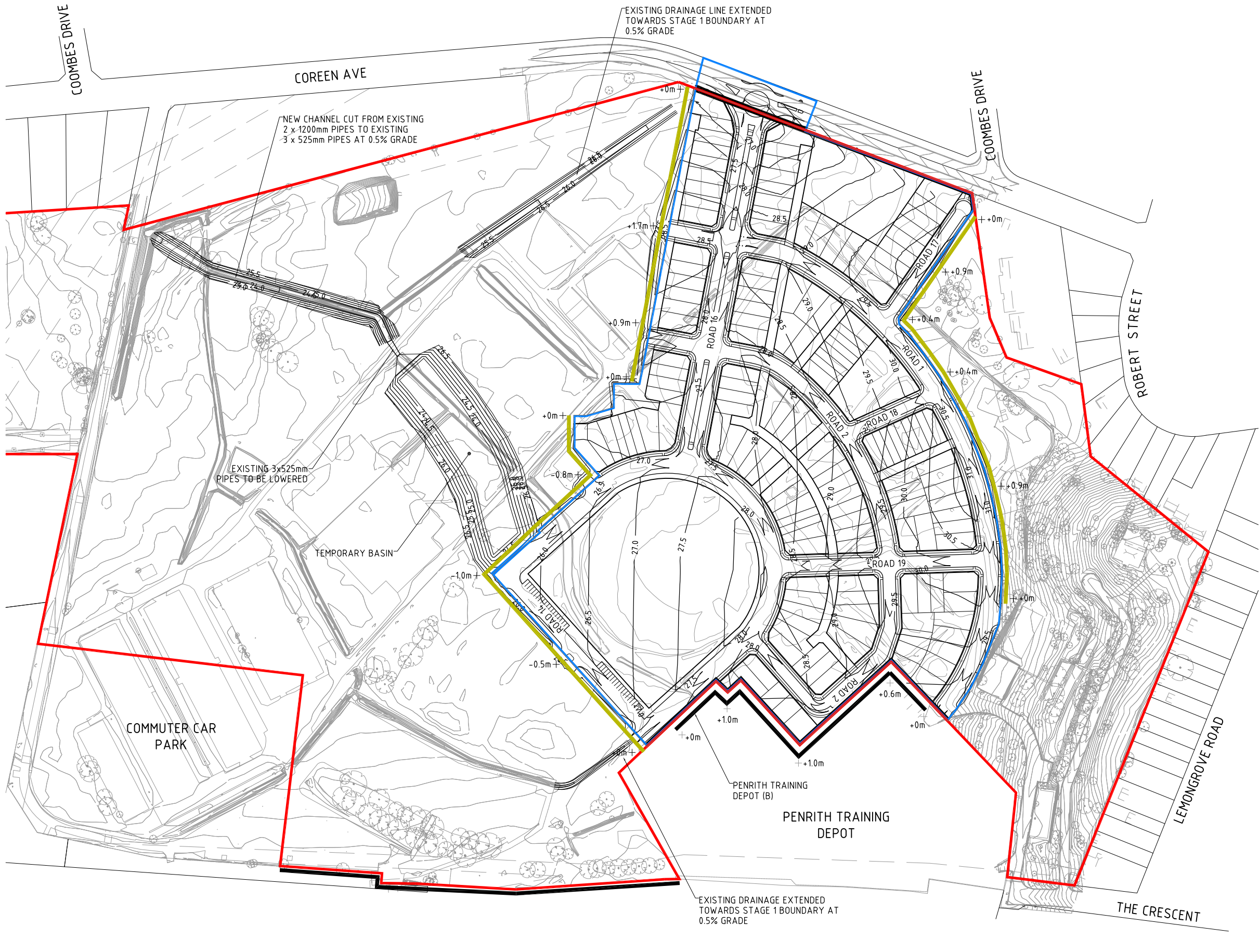


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B	27.10.10	FINAL
A	10.09.10	ISSUED FOR STAGE 1 PROJECT APPLICATION



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STAGE 1 PROJECT APPLICATION
CONCEPT ROAD PLAN
301015-00NP-ST1-F02

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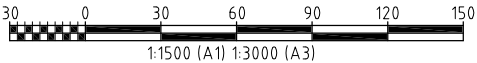


LEGEND

- EXISTING SURFACE CONTOUR (0.25m INTERVAL)
- PROPOSED SURFACE CONTOUR (0.25m INTERVAL)
- EXISTING TREES
- SITE BOUNDARY
- STAGE 1 BOUNDARY
- STAGE 1 ROADS & LOT BOUNDARIES
- LOCATION OF RETAINING WALL AT BOUNDARY AND APPROXIMATE HEIGHT.
+0.6m
- TEMPORARY BATTER (1V:5H) REQUIRED AT BOUNDARY OF STAGE 1 AND APPROXIMATE BATTER HEIGHT.
+1.7m

NOTES

- LEVELS AND GRADING ARE CONCEPTUAL ONLY AND ARE BASED ON A MINIMUM ROAD GRADE OF 1%. NO LOT GRADING DESIGN HAS BEEN UNDERTAKEN AT THIS STAGE.
- GRADING DESIGN SURFACE IS 'in Grading Plan 04' IN PROJECT 'S:\North Penrith Landcom\11.0 Drawings\Models-3d\12d\Concept Design\Current Grading Design'.
- EXISTING SURVEY PROVIDED BY CRAIG & RHODES PTY LTD (23.07.10)



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STAGE 1 PROJECT APPLICATION
CONCEPT GRADING PLAN
301015-00NP-ST1-F03

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CUT AND FILL VOLUMES

CUT	DEPTH	VOL. (m³)	
-3.5	to -7.0	0	
-3.0	to -3.5	-650	
-3.0	to -2.5	-1900	
-2.5	to -2.0	-2500	
-2.0	to -1.5	-3300	
-1.5	to -1.0	-4400	
-1.0	to -0.5	-7600	
-0.5	to 0	-19800	
TOTAL CUT		-40000	

FILL	DEPTH	VOL. (m³)	
0	to 0.5	30500	
0.5	to 1.0	14600	
1.0	to 1.5	3900	
1.5	to 2.0	400	
2.0	to 2.5	10	
2.5	to 3.0	0	
3.0	to 3.5	0	
TOTAL FILL		49400	

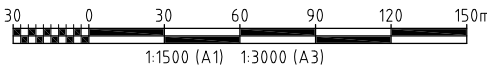
BALANCE (FILL) 9400m³

LEGEND

- 30.0 PROPOSED SURFACE CONTOUR (0.25m INTERVAL)
- SITE BOUNDARY
- STAGE 1 BOUNDARY

NOTES

- BULK EARTHWORKS VOLUMES HAVE BEEN CALCULATED BETWEEN EXISTING SURFACE AND CONCEPT DESIGN FINISHED SURFACE. NO ALLOWANCE HAS BEEN MADE FOR STRIPPING OF TOPSOIL, REMOVAL OF UNSUITABLE MATERIAL, BOXING OUT OF PAVEMENTS OR FOUNDATIONS AND DEEP EXCAVATIONS (EG BASEMENTS) ETC.
- BULK EARTHWORKS VOLUMES CALCULATED USING 'fin Grading Stage 1' IN PROJECT 'S:\North Penrith Landcom\11.0 Drawings\Models-3d\12d\Concept Design\Current Grading Design'.



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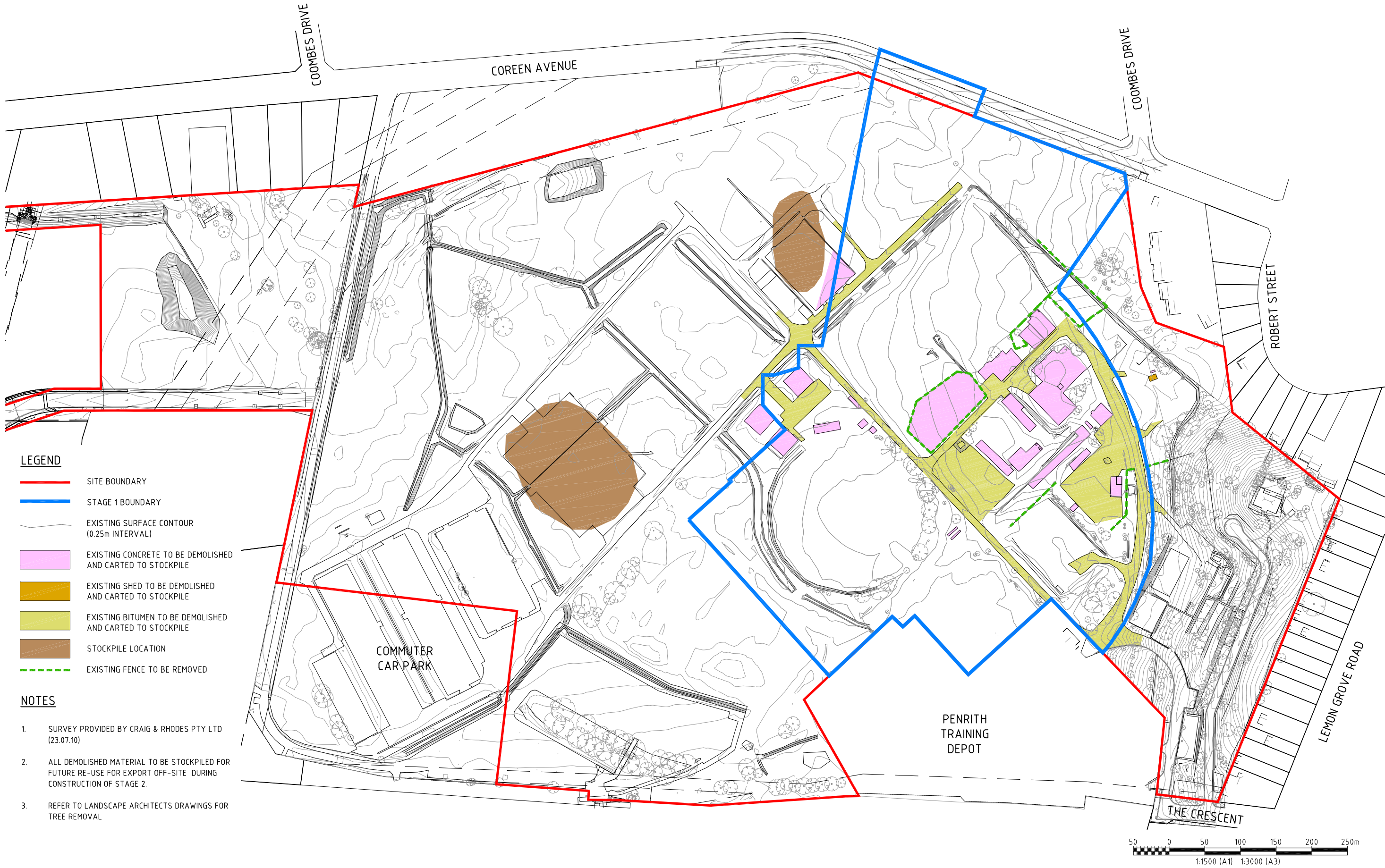
ISSUE	DATE	ISSUE DESCRIPTION
B	27.10.10	FINAL
A	10.09.10	ISSUED FOR STAGE 1 PROJECT APPLICATION



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STAGE 1 PROJECT APPLICATION
CONCEPT BULK EARTHWORKS PLAN
301015-00NP-ST1-F04

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ISSUE	DATE	ISSUE DESCRIPTION
B	27.10.10	FINAL
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STAGE 1 PROJECT APPLICATION
DEMOLITION PLAN
301015-00NP-ST1-F04a

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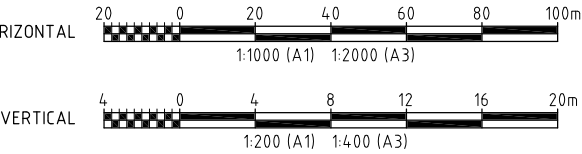
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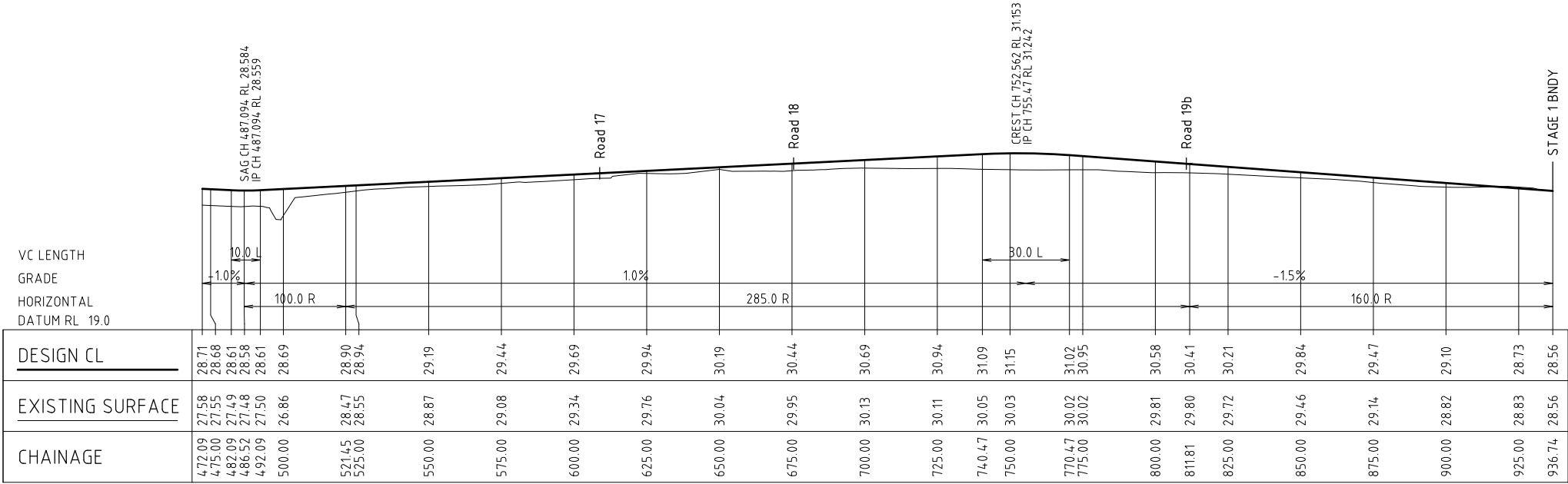
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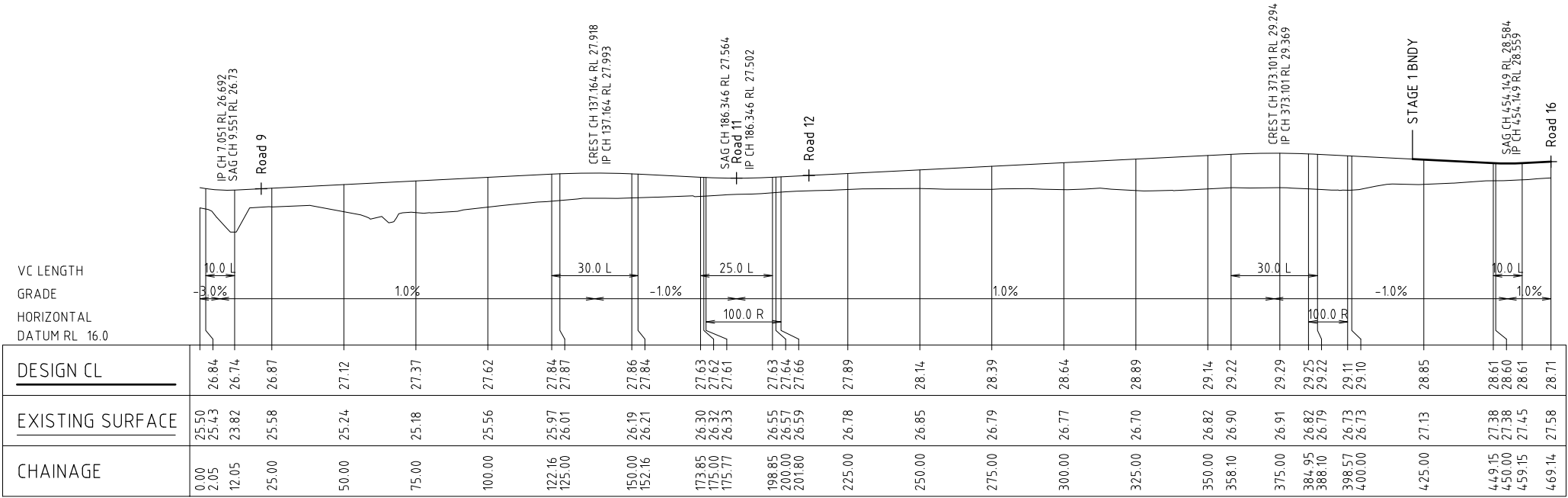
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STAGE 1 PROJECT APPLICATION
CONCEPT ROAD LONG SECTIONS SHEET 1 OF 4
301015-00NP-ST1-F05



PROPOSED Road 01a LONGITUDINAL SECTION
SCALE HORIZONTAL 1:1000
SCALE VERTICAL 1:200



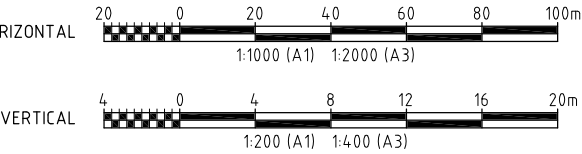
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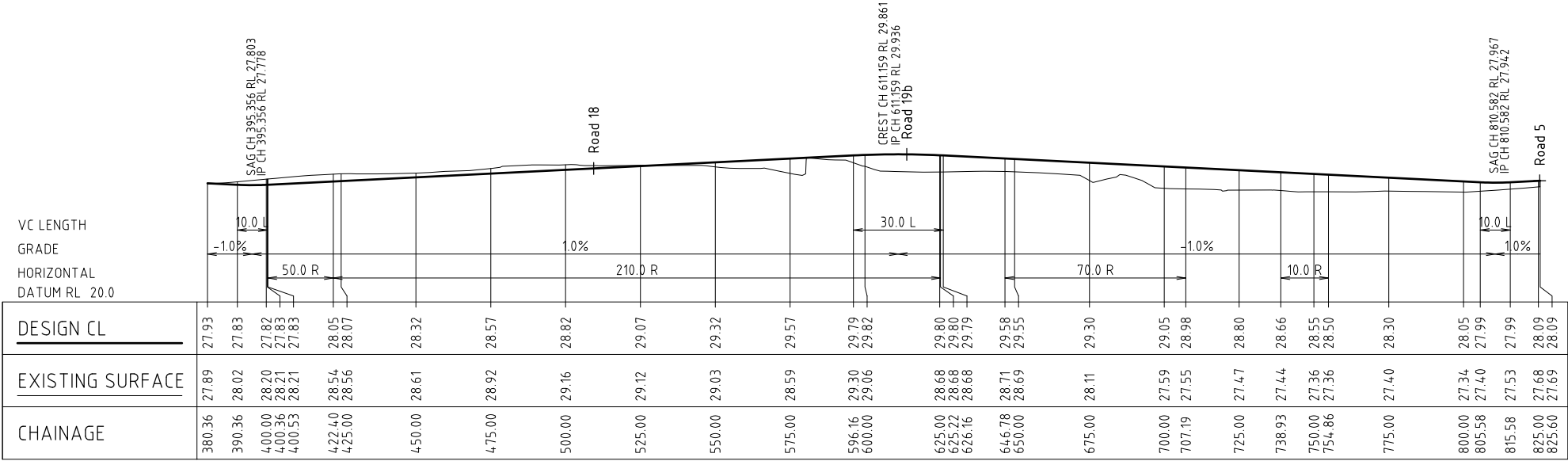
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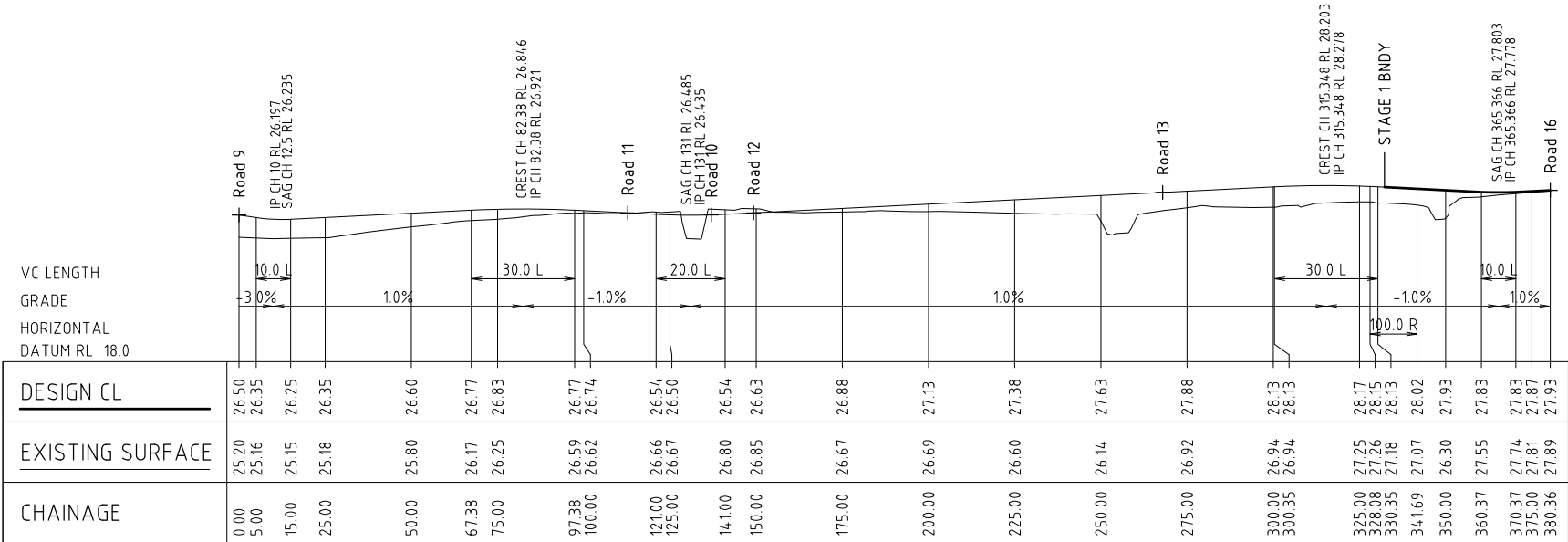
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STAGE 1 PROJECT APPLICATION
CONCEPT ROAD LONG SECTIONS SHEET 2 OF 4
301015-00NP-ST1-F06



PROPOSED Road 02b LONGITUDINAL SECTION
SCALE HORIZONTAL 1:1000
SCALE VERTICAL 1:200



PROPOSED Road 02a LONGITUDINAL SECTION
SCALE HORIZONTAL 1:1000
SCALE VERTICAL 1:200

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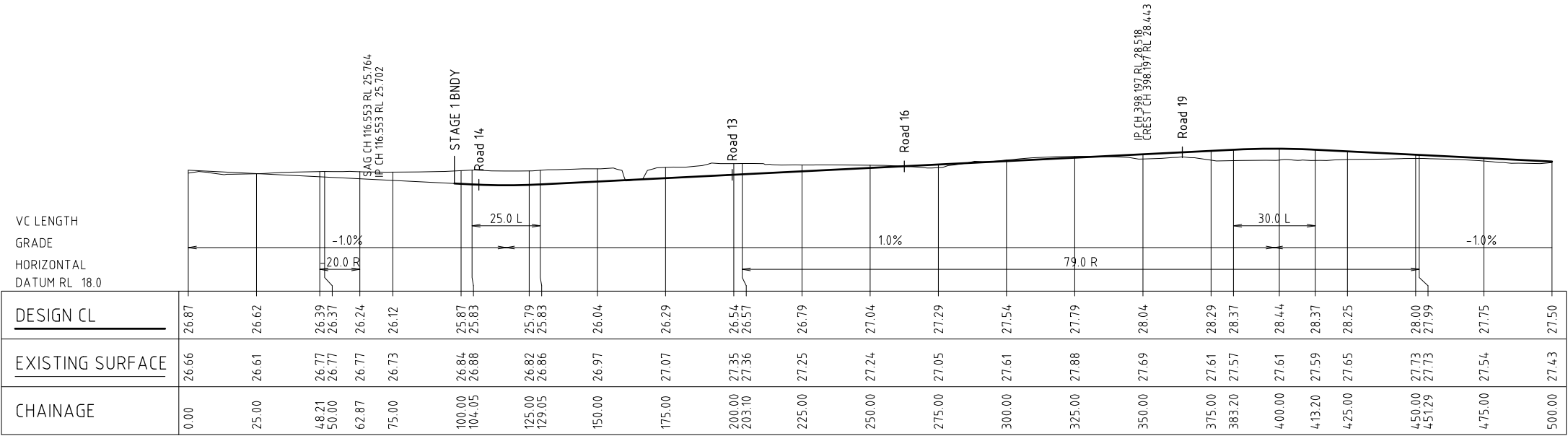
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ISSUE	DATE	ISSUE DESCRIPTION

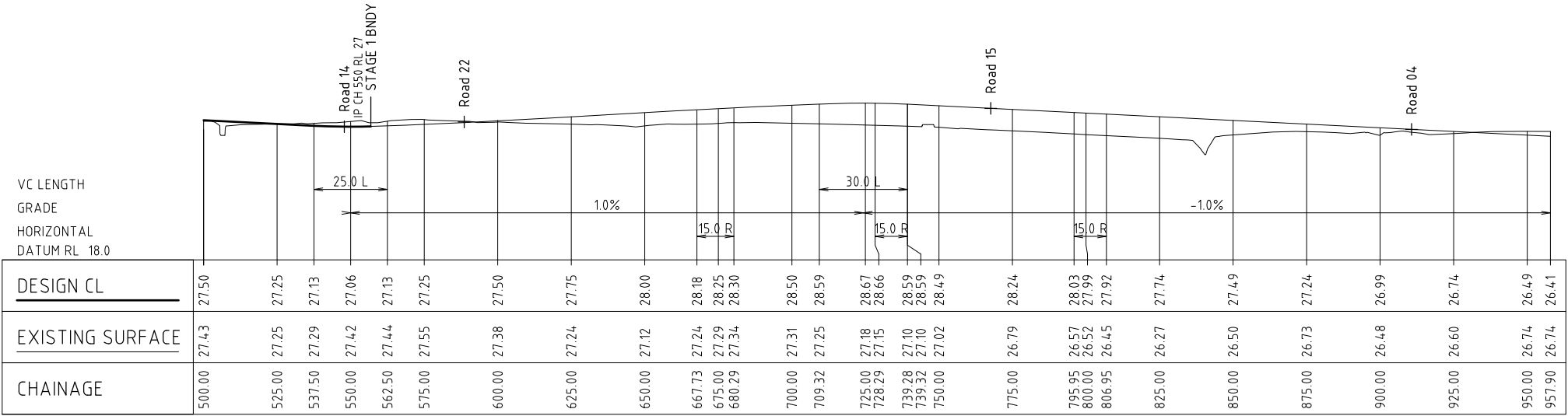


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STAGE 1 PROJECT APPLICATION
CONCEPT ROAD LONG SECTIONS SHEET 3 OF 4
301015-00NP-ST1-F07



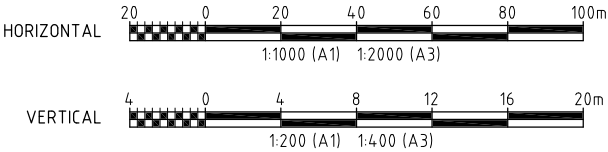
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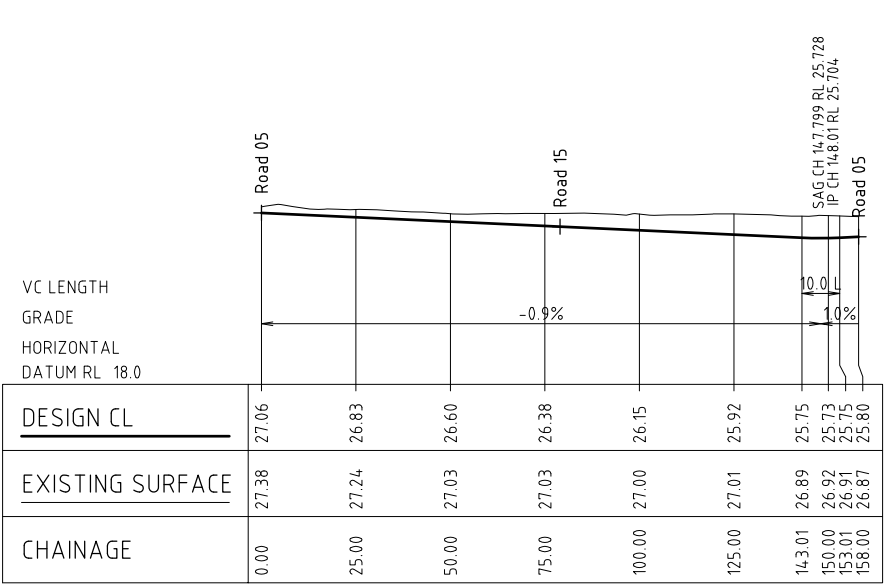
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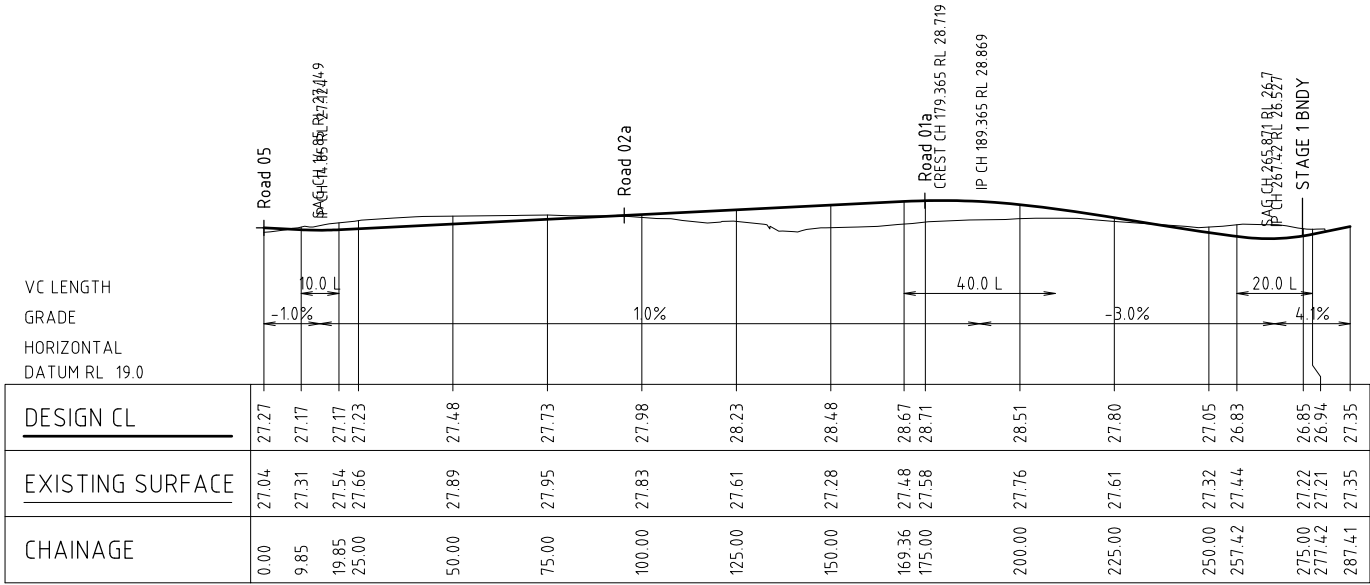
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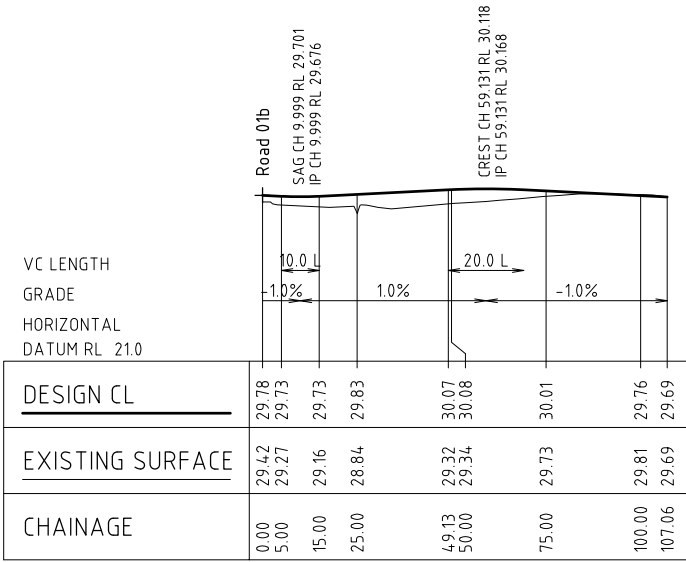




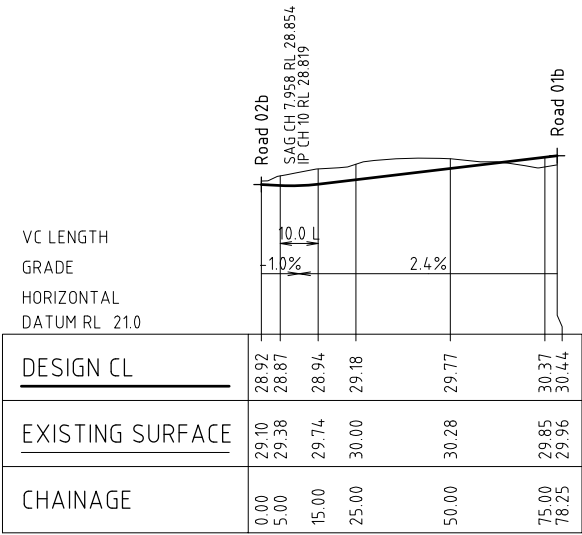
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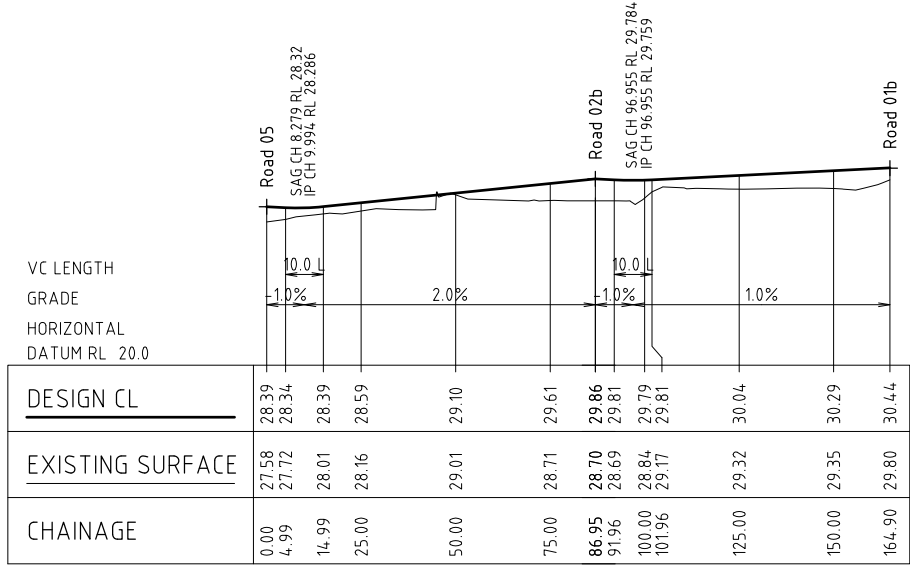
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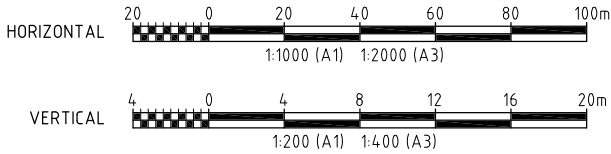
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PROPOSED Road 18 LONGITUDINAL SECTION
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PROPOSED Road 19a LONGITUDINAL SECTION
SCALE HORIZONTAL 1:1000
SCALE VERTICAL 1:200



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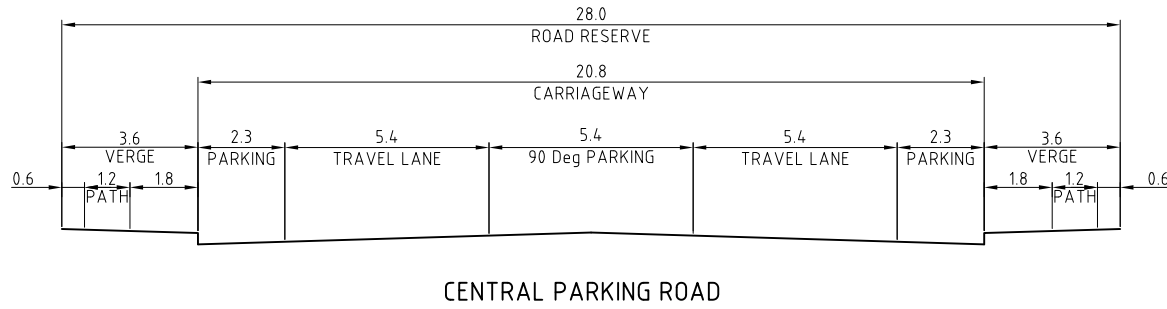
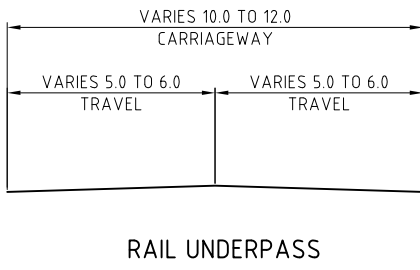
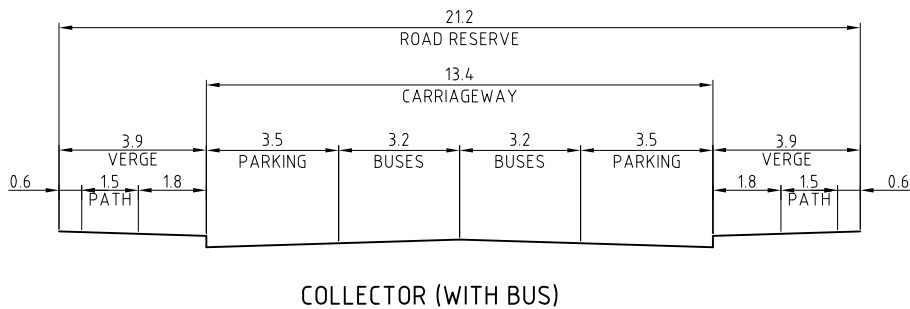
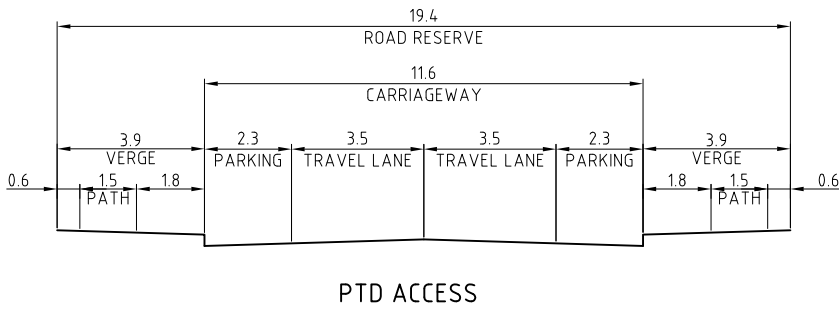
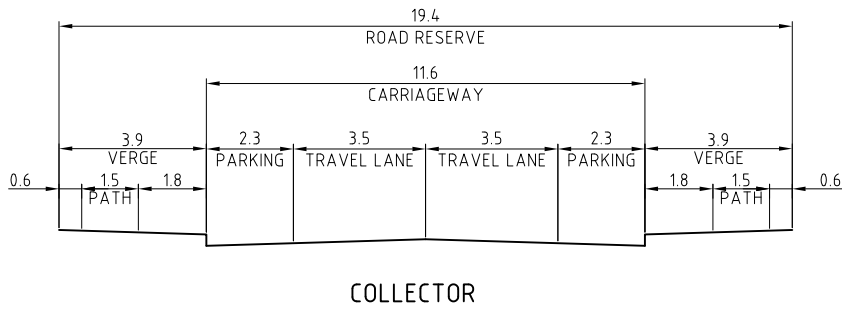
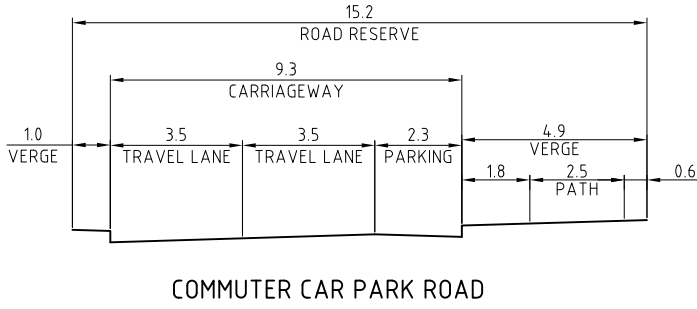
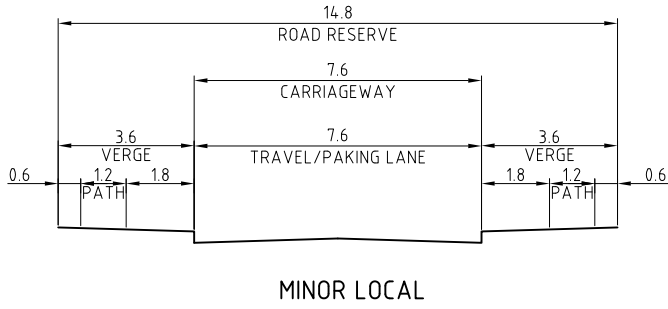
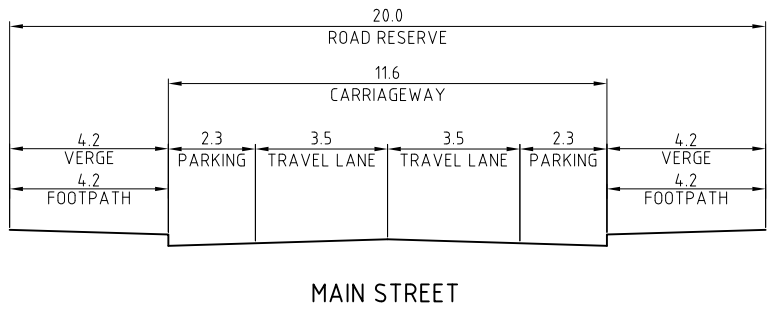
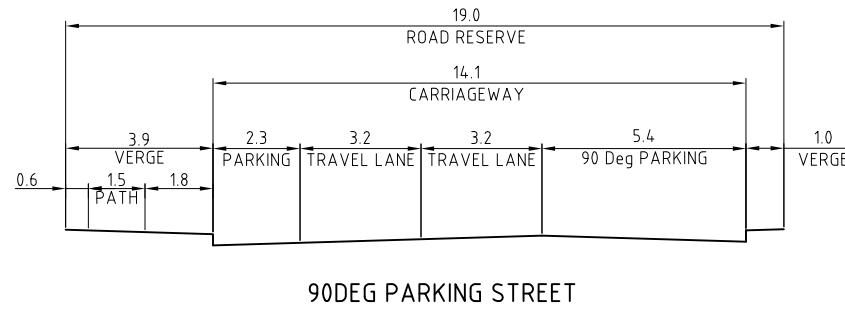
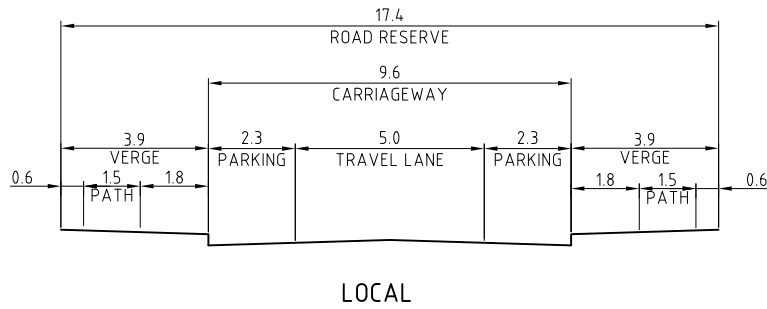
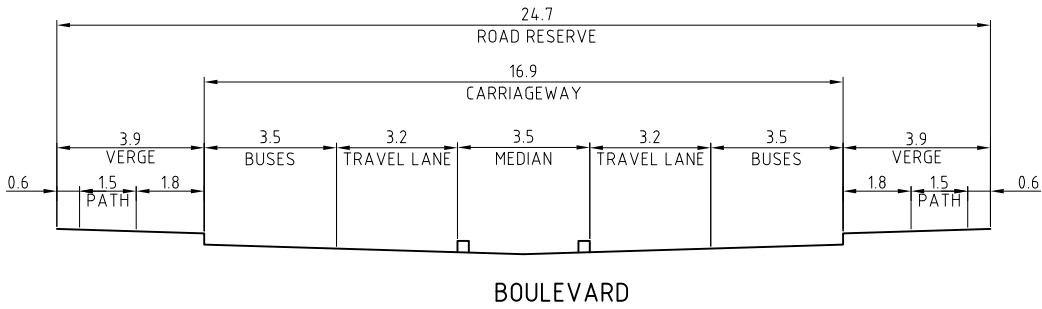


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A	10.09.10	ISSUED FOR STAGE 1 PROJECT APPLICATION
ISSUE	DATE	ISSUE DESCRIPTION



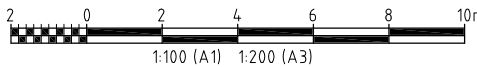
NORTH PENRITH
STAGE 1 PROJECT APPLICATION
CONCEPT ROAD LONG SECTIONS SHEET 4 OF 4
301015-00NP-ST1-F08

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NOTES

1. REFER TO ROAD HIERARCHY PLAN BY AAUD FOR LOCATION OF ROAD TYPES



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OneWay
to zero harm

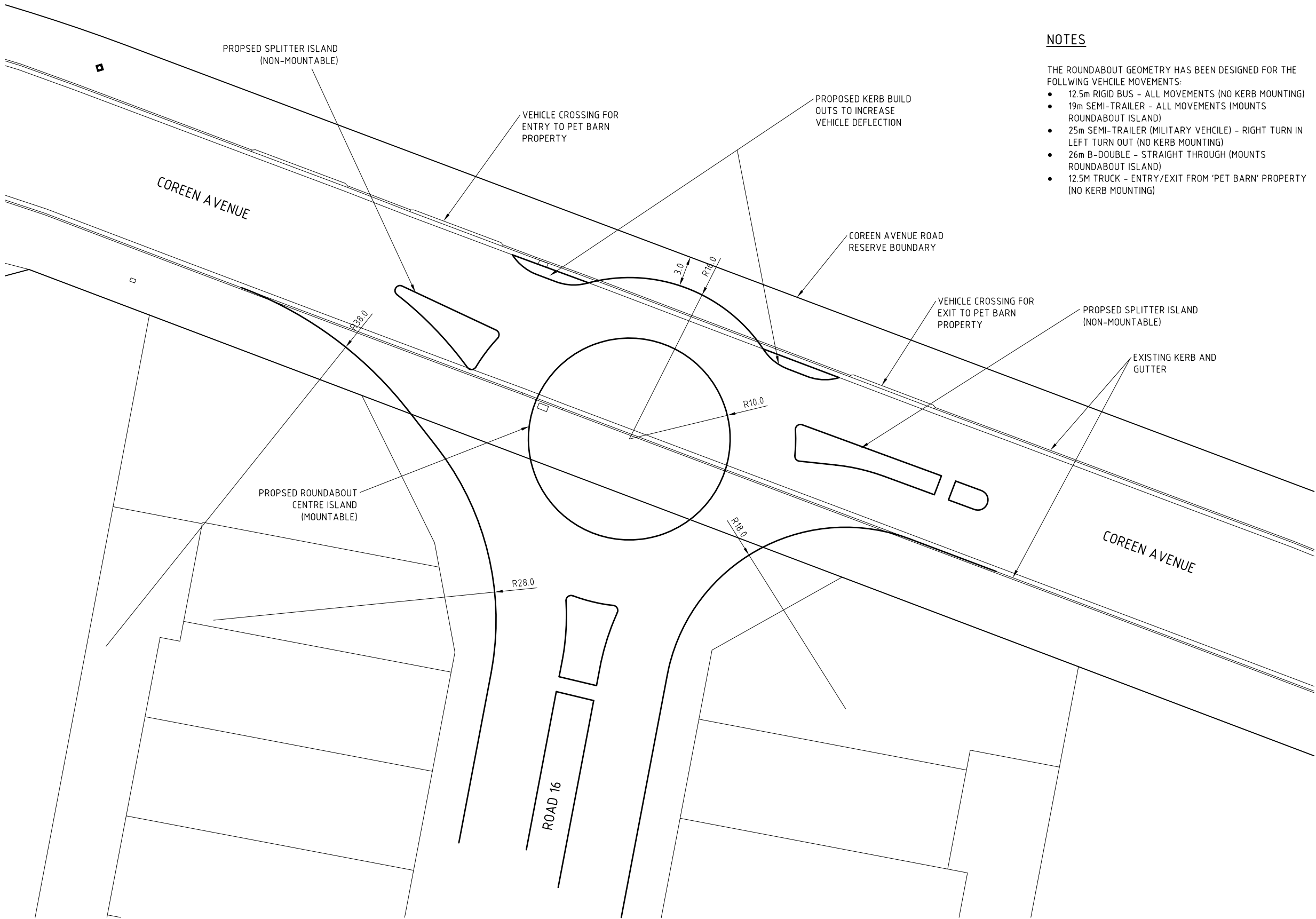
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A	10.09.10	ISSUED FOR STAGE 1 PROJECT APPLIAION
ISSUE	DATE	ISSUE DESCRIPTION



NORTH PENRITH
STAGE 1 PROJECT APPLICATION
CONCEPT ROAD TYPICAL CROSS SECTIONS
301015-00NP-ST1-F09

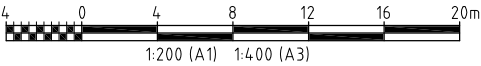
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NOTES

- THE ROUNDABOUT GEOMETRY HAS BEEN DESIGNED FOR THE FOLLOWING VEHICLE MOVEMENTS:
- 12.5m RIGID BUS - ALL MOVEMENTS (NO KERB MOUNTING)
 - 19m SEMI-TRAILER - ALL MOVEMENTS (MOUNTS ROUNDABOUT ISLAND)
 - 25m SEMI-TRAILER (MILITARY VEHICLE) - RIGHT TURN IN LEFT TURN OUT (NO KERB MOUNTING)
 - 26m B-DOUBLE - STRAIGHT THROUGH (MOUNTS ROUNDABOUT ISLAND)
 - 12.5M TRUCK - ENTRY/EXIT FROM 'PET BARN' PROPERTY (NO KERB MOUNTING)



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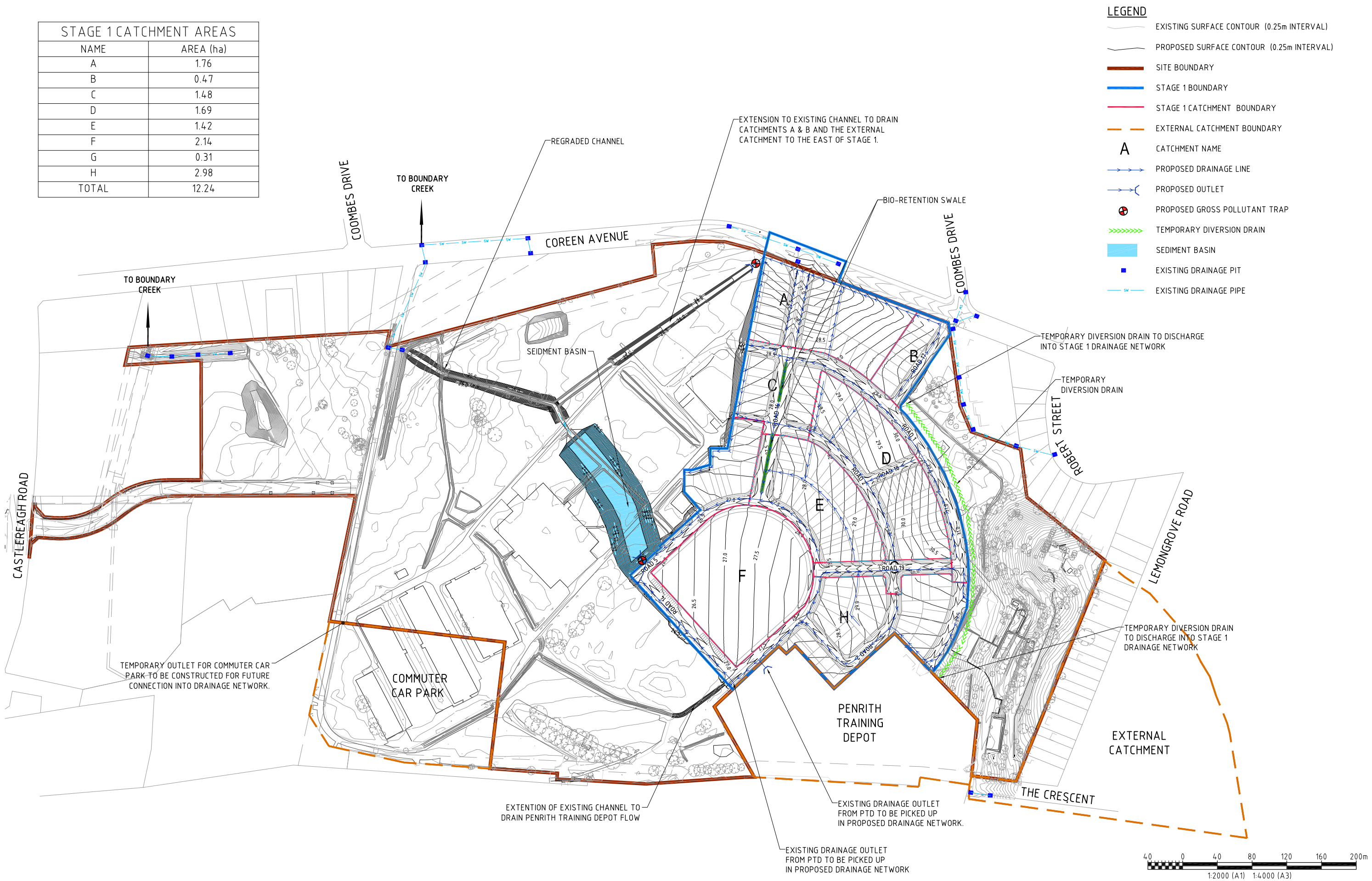
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A	04.10.10	ISSUED FOR REVIEW



NORTH PENRITH
STAGE 1 PROJECT APPLICATION
COREEN AVENUE CONCEPT ROUNDABOUT INTERSECTION
301015-00NP-ST1-F10

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STAGE 1 CATCHMENT AREAS	
NAME	AREA (ha)
A	1.76
B	0.47
C	1.48
D	1.69
E	1.42
F	2.14
G	0.31
H	2.98
TOTAL	12.24



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OneWay
to zero harm

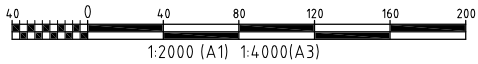
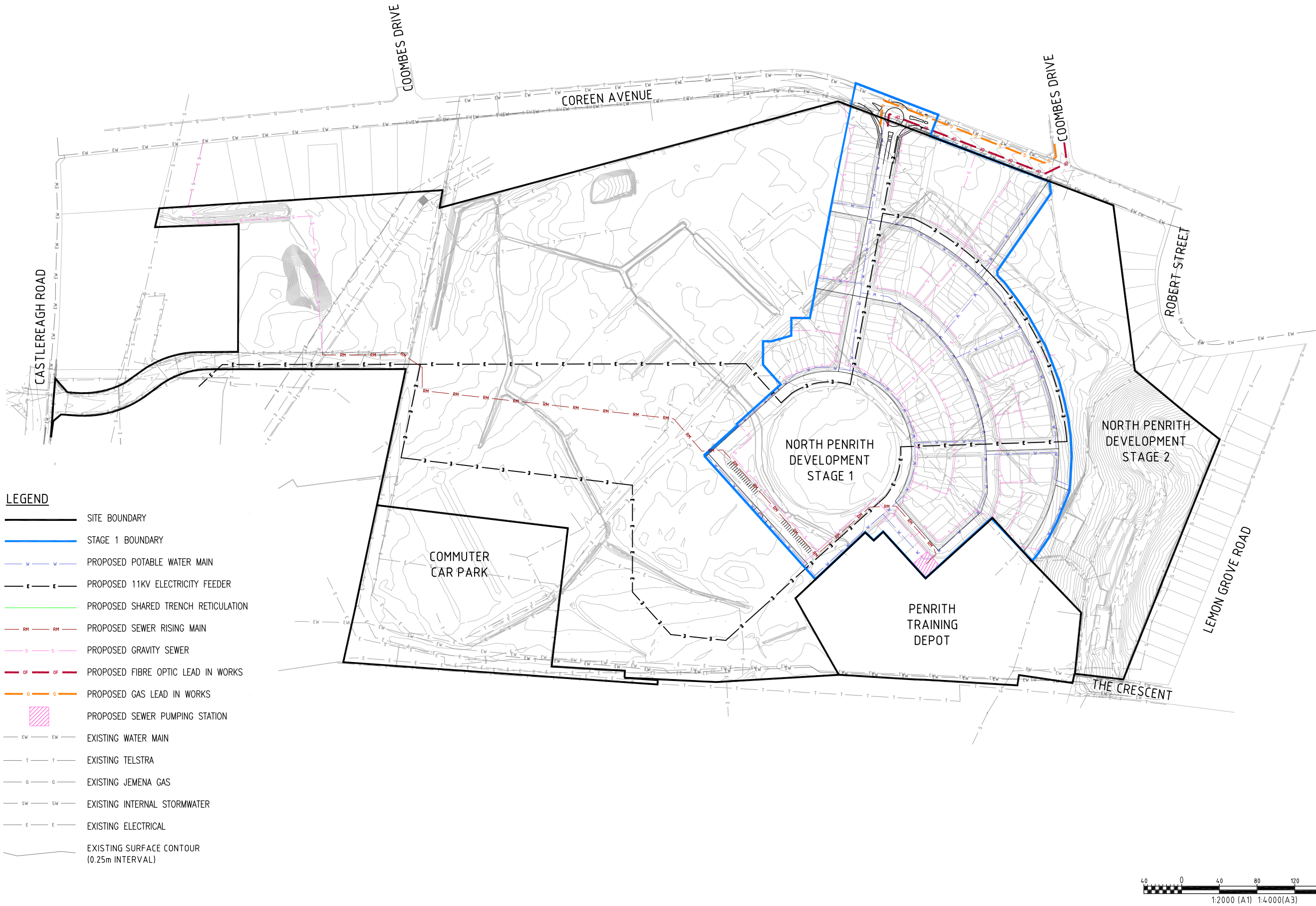
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B	27.10.10	FINAL
A	10.09.10	ISSUED FOR STAGE 1 PROJECT APPLICATION



NORTH PENRITH
STAGE 1 PROJECT APPLICATION
CONCEPT STORMWATER DRAINAGE PLAN
301015-00NP-ST1-F11

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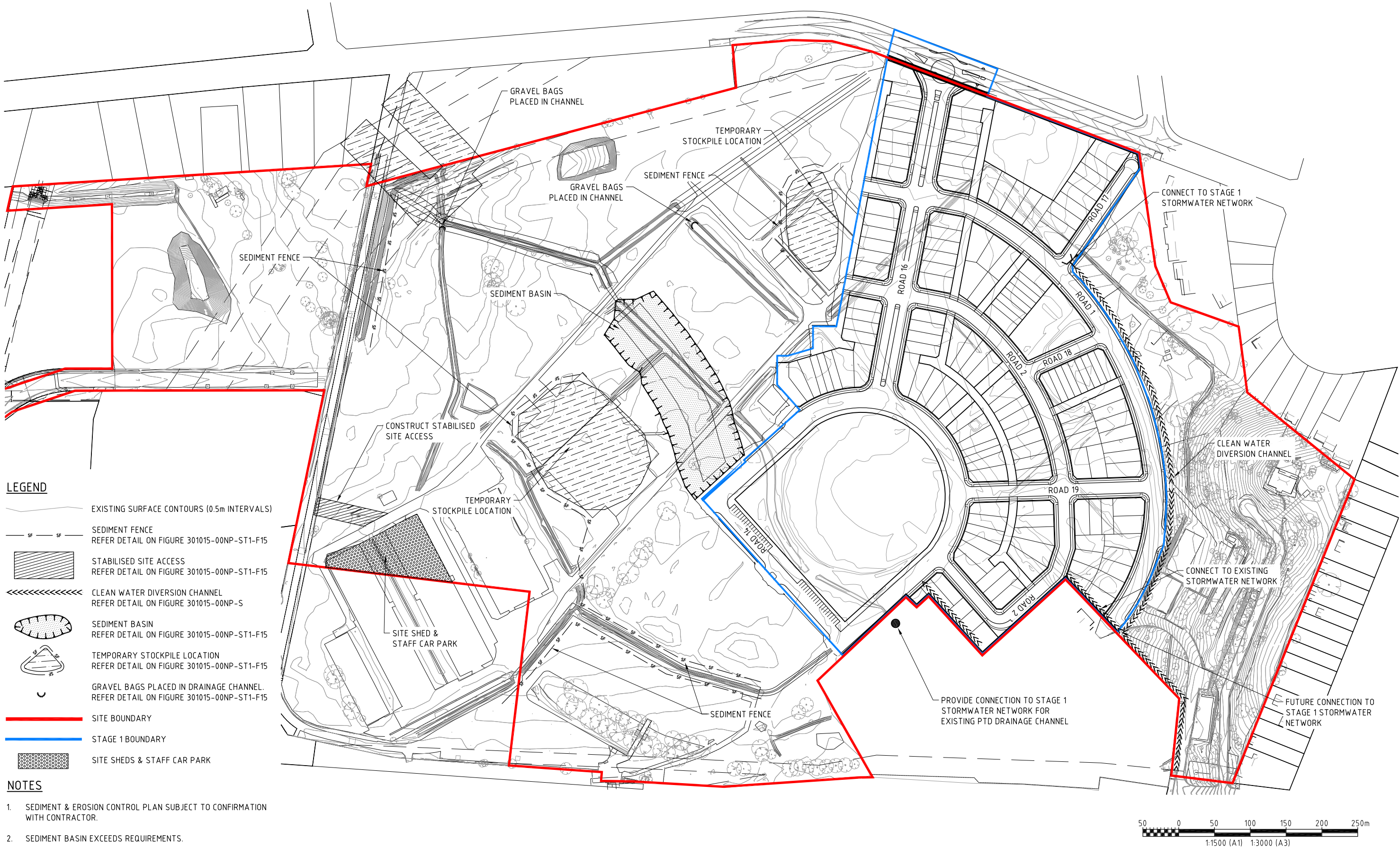


ISSUE	DATE	ISSUE DESCRIPTION
B	27.10.10	FINAL
A	10.09.10	ISSUED FOR STAGE 1 PROJECT APPLICATION



NORTH PENRITH
STAGE 1 PROJECT APPLICATION
CONCEPT SERVICING NETWORK
301015-00NP-ST1-F12

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LEGEND

- EXISTING SURFACE CONTOURS (0.5m INTERVALS)
- SEDIMENT FENCE
REFER DETAIL ON FIGURE 301015-00NP-ST1-F15
- STABILISED SITE ACCESS
REFER DETAIL ON FIGURE 301015-00NP-ST1-F15
- CLEAN WATER DIVERSION CHANNEL
REFER DETAIL ON FIGURE 301015-00NP-S
- SEDIMENT BASIN
REFER DETAIL ON FIGURE 301015-00NP-ST1-F15
- TEMPORARY STOCKPILE LOCATION
REFER DETAIL ON FIGURE 301015-00NP-ST1-F15
- GRAVEL BAGS PLACED IN DRAINAGE CHANNEL.
REFER DETAIL ON FIGURE 301015-00NP-ST1-F15
- SITE BOUNDARY
- STAGE 1 BOUNDARY
- SITE SHEDS & STAFF CAR PARK

NOTES

- SEDIMENT & EROSION CONTROL PLAN SUBJECT TO CONFIRMATION WITH CONTRACTOR.
- SEDIMENT BASIN EXCEEDS REQUIREMENTS.



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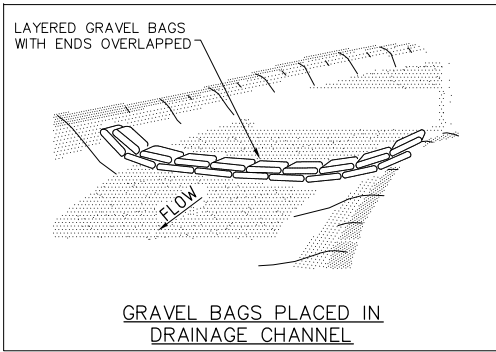
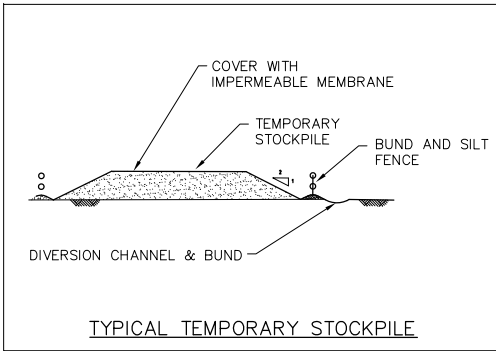
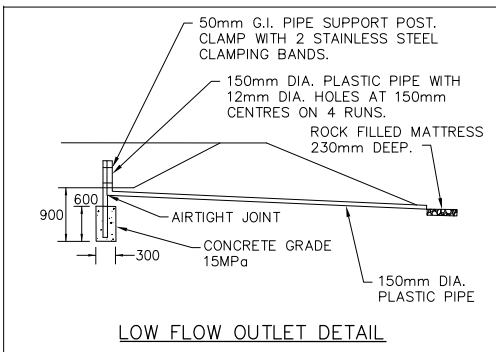
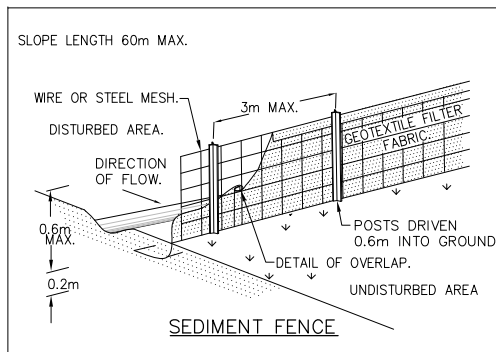


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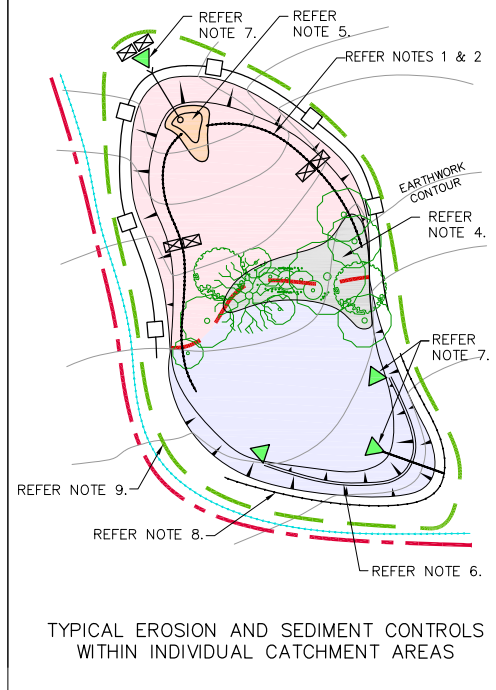


NORTH PENRITH
STAGE 1 PROJECT APPLICATION
SEDIMENT AND EROSION CONTROL PLAN
301015-00NP-ST1-F13

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1. DIVERSION DRAIN (OR LIP ON THE TOP OF FILL BATTERS) DIRECTING FLOW INTO SEDIMENT BASIN. STRAW BALES TO BE PLACED AT 50m INTERVALS AS A MINIMUM TRANSVERSE DIVERSION DEVICE
2. FOR DIVERSION DRAINS OF 0-2.5% PROVIDE TRANSVERSE STRAW BALE PROTECTION, FOR GRADES OF 2.5-20% PROVIDE GRADE STABILISING STRUCTURES AND FOR GRADE 20%+ PROVIDE ROCK CHECK DAMS.
3. A 'CLEAN' WATER DRAIN SHALL BE PROVIDED ON THE HIGH SIDE OF THE WORKS, ALL FLOWS SHALL BE DIRECTED AROUND THE CONSTRUCTION SITE WITHOUT COMING IN CONTACT WITH DISTURBED GROUND.
4. VEGETATION SHALL BE RETAINED IN UNDISTURBED AREAS AND LOCATIONS OF CUT TO FILL TRANSITIONS.
5. SEDIMENT BASINS SHALL BE CONSTRUCTED IN A MANNER TO UTILISE THE PROPOSED FILL EMBANKMENT, BASIN DEPTH IS ASSUMED AT 1m TYPICALLY FOR ALL BASINS INDICATED ON THIS PLAN.
6. PROVIDE BENCHING ON BATTER SLOPES AS DETAILED.
7. LEVEL SPREADERS OR DISSIPATORS SHALL BE EMPLOYED IN ALL AREAS WHERE A DIVERSION, EMBANKMENT OR BATTER DRAIN DOES NOT OUTLET INTO ANOTHER CONTROL DEVICE.
8. SPURDIE BARRIER FENCING (PARAWEB AS A MINIMUM) IN AREAS WHERE A CUT BATTER EXCEEDS 2m IN VERTICAL HEIGHT.
9. INTERNAL CATCHMENT BOUNDARY



1. CONTRACTOR IS TO PREPARE A MANAGEMENT PLAN THAT MONITORS WIND DIRECTION AND DUST TRANSPORT OFF-SITE. RECORDS ARE TO BE KEPT OF ALL COMPLAINTS AS TO THE LOCATION, WIND DIRECTION, ACTIVITIES ON-SITE AND NATURE OF ISSUE.
2. WORKS ARE TO BE STAGED AND DISTURBED AREAS VEGETATED IMMEDIATELY TO LIMIT POTENTIAL FOR WIND EROSION.
3. DISTURBED SURFACES ARE TO BE LEFT IN A ROUGH CLODDY CONDITION WHERE POSSIBLE TO INCREASE ROUGHNESS AND SLOW SURFACE WIND SPEED.
4. DISTURBED SURFACES ARE TO BE KEPT IN DAMP AND A WATER CART AVAILABLE ON-SITE ALL TIMES.

Note: These "Standard Calculation" spreadsheets relate only to low erosion hazard lands as identified in figure 4.6 where the designer chooses to not use the RUSLE to size sediment basins. The more "Detailed Calculation" spreadsheets should be used on h

1. Site Data Sheet

Site name:	North Penrith Defence Land						
Site location:	North Penrith						
Precinct:	North Penrith						
Description of site:	Assumes Type D soils						

Site area	Site					Remarks
	A					
Total catchment area (ha)	24.8					
Disturbed catchment area (ha)	10					

Soil analysis						
Soil landscape	Luddenham (lu)					DIPNR mapping (if relevant)
Soil Texture Group	Type D					Sections 6.3.3(c), (d) and (e)

Rainfall data						
Design rainfall depth (days)	5					See Sections 6.3.4 (d) and (e)
Design rainfall depth (percentile)	80					See Sections 6.3.4 (f) and (g)
x-day, y-percentile rainfall event	18.2					See Section 6.3.4 (h)
Rainfall intensity: 2-year, 6-hour storm	10.2					See IFD chart for the site
Rainfall erosivity (R-factor)	2290					Automatic calculation from above data

[illegible]

Basin volume = settling zone volume + sediment storage zone volume

Settling Zone Volume

The settling zone volume for Type F and Type D soils is calculated to provide capacity to contain all runoff expected from up to the y-percentile rainfall event. The volume of the basin's settling zone (V) can be determined as a function of the basin's s

$$V = 10 \times C_v \times A \times R_{y\text{-}s\text{ite}, x\text{-}day} \text{ (m}^3\text{)}$$

where:

10 = a unit conversion factor

C_v = the volumetric runoff coefficient defined as that portion of rainfall that runs off as stormwater over the x-day period

R = is the x-day total rainfall depth (mm) that is not exceeded in y percent of rainfall events. (See Sections 6.3.4(d), (e), (f), (g) and (h)).

A = total catchment area (ha)

Sediment Storage Zone Volume

In the standard calculation, the sediment storage zone is 50 percent of the setting zone. However, designers can work to capture the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(iii)), in which case the "Detailed Calculation" spreadsheet

Total Basin Volume

Site	C_v	R x-day y%ile	Total catchment area (ha)	Settling zone volume (m^3)	Sediment storage volume (m^3)	Total basin volume (m^3)
A	0.70	18.2	24.8	3159.52	1580	8688.68