

NORTH PENRITH - STAGE 2A

X12016-PA

ROAD AND DRAINAGE DESIGN

FOR STATE SIGNIFICANT DEVELOPMENT APPLICATION

DRAWING LIST

| | |
|----------------------------|---|
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LOCALITY PLAN
N.T.S.

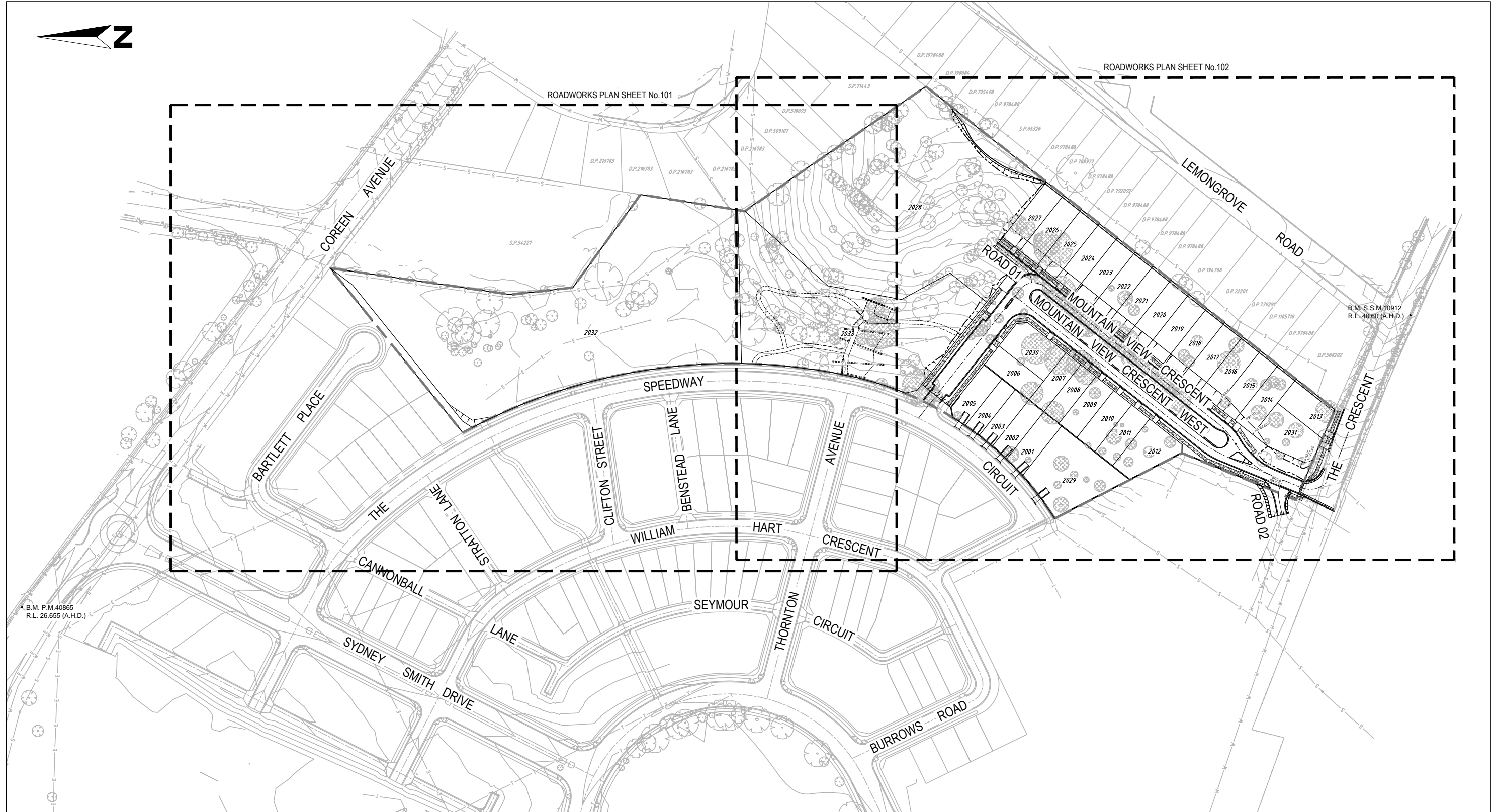
LGA PENRITH COUNCIL



NORTH PENRITH - STAGE 2A
X12016-PA

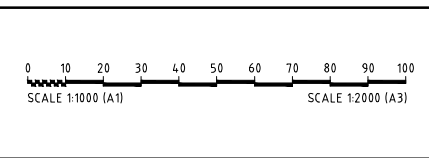


Project No.: X12016 Stage: 2A Milestone: SSD Drawing No.: 000 Revision: 03



STATE SIGNIFICANT DEVELOPMENT APPLICATION

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| P | JM | PB | CB | | 23/04/2012 | PRELIMINARY ISSUE |
| 01 | JM | PB | CB | TT | 5/06/2012 | ISSUED FOR PROJECT APPLICATION |
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| 03 | JM | PB | CB | TT | 19/06/2012 | REVISED TO SUIT CLIENT'S COMMENTS |
| First Issue | JM | PB | CB | TT | | |



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Approval:
 BY: TOBY TAMES
 BE (Hons) GradDipMgt CPESC CPEng
 MIEAust Manager - Urban Development
 SIGN:
 DATE: 19/6/12

Client: LANDCOM
 Project: NORTH PENRITH - STAGE 2A
 X12016-PA



| | | | | |
|---------------------------------------|--------------|-------------------|-----------------|-----------------|
| Drawing Title: GENERAL LAYOUT PLAN | | | | |
| Project No.: X12016 | Stage: 2A | Milestone: SSD | Dwg No.: 001 | Revision: 03 |

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STANDARD NOTES

GENERAL:

- G1 FOR LEGEND OF DRAWINGS REFER TO COVER SHEET
- G1 ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH PENRITH CITY COUNCIL'S ENGINEERING STANDARDS AND SPECIFICATIONS AND THE REQUIREMENTS OF COUNCIL'S ENGINEER, AS DIRECTED BY THE SUPERINTENDENT.
- G2 THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY AS SUPPLIED BY THE APPOINTED SURVEYORS.
- G3 SERVICES SHOWN ON THESE PLANS ARE LOCATED FROM INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND FIELD INVESTIGATIONS AND ARE NOT GUARANTEED COMPLETE OR CORRECT. ALL SERVICE LOCATIONS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- G4 THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNERS. TO BE PROVIDED PRIOR TO THE APPROVAL OF THE PLANS.
- G5 THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
- G6 ALL RUBBISH, BUILDINGS, SHEDS, AND FENCES ARE TO BE REMOVED IN ACCORDANCE WITH COUNCIL SPECIFICATION.
- G7 ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATIONS AND TO THE REQUIREMENTS OF COUNCIL'S ENGINEER.
- G8 NO TREES TO BE REMOVED OTHER THAN THOSE AFFECTED BY THE ROAD & SITE WORKS IN ACCORDANCE WITH COUNCIL'S TREE PRESERVATION ORDER.
- G9 ALL CO-ORDINATES ARE TRUNCATED MGA CO-ORDINATES. ALL LEVELS ARE TO AHD. SURVEY INFORMATION SUPPLIED BY CRAIG & RHODES PTY LTD
- G10 COUNCIL'S TREE PRESERVATION ORDER MUST BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT THE PRIOR APPROVAL OF COUNCIL'S ENGINEER.
- G11 THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES, OUT-HOUSES, CAR BODIES AND DEBRIS, ETC.
- G12 PUBLIC RESERVE AREAS SHALL BE CLEARED OF UNDERGROWTH, IMPROVEMENTS AND FENCES TO THE REQUIREMENTS OF COUNCIL'S ENGINEER AS DIRECTED BY THE SUPERINTENDENT.
- G13 SCOURS AND WATERCOURSES SHALL BE DEWATERED AND DESILTED. LEVELS SHALL BE OBTAINED ON SOUND MATERIAL PRIOR TO FILLING.
- G14 SURPLUS EXCAVATED MATERIAL SHALL BE PLACES WHERE DIRECTED BY THE SUPERINTENDENT TO THE REQUIREMENTS OF COUNCIL'S ENGINEER.
- G15 ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL ASPHALTIC CONCRETE SEAL.
- G16 ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- G17 DIMENSIONS OF ANY DETAILS SHALL NOT BE SCALED - DIMENSIONS, IF IN DOUBT, SHALL BE VERIFIED BY THE SUPERINTENDENT.

SURVEY SET OUT INFORMATION NOTES:

- G18 ALL SITE SET OUT AND CONTROL POINTS ARE TO BE CERTIFIED BY A REGISTERED SURVEYOR.
- G19 THE INFORMATION DETAILED ON THE CERTIFIED CONSTRUCTION CERTIFICATE PLANS TAKES PRECEDENCE OVER ALL ELECTRONIC INFORMATION PROVIDED. THE ORDER OF PRIORITY FOR USE OF ALL INFORMATION PROVIDED IS AS FOLLOWS:
 - i. CERTIFIED CONSTRUCTION CERTIFICATE DRAWINGS
 - ii. 2D DRAFTING BASE (ELECTRONIC FILE)
 - iii. 3D DTM (ELECTRONIC FILE)
- G20 ANY DISCREPANCY BETWEEN ANY OF THE INFORMATION CONTAINED WITHIN THESE FILES IS TO BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT WHO WILL SEEK CLARIFICATION AND ISSUE INSTRUCTIONS ON THE APPROPRIATE COURSE OF ACTION.

ROADWORKS:

- R1 PAVEMENT DEPTHS SHOWN ON CROSS SECTIONS ARE FOR DESIGN PURPOSE ONLY. ALL DEPTHS TO BE CONFIRMED FOLLOWING IN-SITU SUBGRADE CBR TESTING DURING CONSTRUCTION BY CONTRACTOR.
- R2 SUBGRADE, SUBBASE AND BASE ARE TO BE COMPACTED TO THE REQUIREMENTS OF COUNCIL.
- R3 GUTTER SLOTS ARE TO BE PROVIDED AT REGULAR INTERVALS AND AT PITS (ONLY WHERE TEMPORARY SEAL FINISHES BELOW LIP OF GUTTER)
- R6 SUBSOIL DRAINS TO BE CONSTRUCTED AT BACK OF ALL KERBS LOCATED IN CUT AND ON THE HIGH SIDE OF ALL ROADS OR AS DIRECTED BY COUNCIL ENGINEER. DRAINAGE LAYER TO EXTEND 100mm BELOW TOP OF KERB.
- R7 SUBSOIL FLUSHING POINTS TO BE CONSTRUCTED IN ACCORDANCE WITH DOH STD DWG No Rm14 AND TO BE LOCATED AS DIRECTED.
- R8 KERB OUTLETS OF 145 x 45 (CLEAR OPENING) HOT DIPPED GALVANISED IRON PIPE FOR HOUSE DRAINAGE ARE TO BE PLACED IN THE KERB ON THE LOW SIDE OF LOTS NOT DRAINED BY THE INTERALLOTMENT LINE.
- R9 PROPOSED SERVICES CROSSING EXISTING ROADS SHALL BE THRUST BORED UNDER THE ROAD SO AS NOT TO DAMAGE THE EXISTING SURFACE.
- R10 SERVICES CONDUITS TO BE PLACED AS DIRECTED FOR INTEGRAL ENERGY, TELSTRA AND AS REQUIRED BY THE SYDNEY WATER CORPORATION.
- R11 PUBLIC UTILITY SERVICES ARE TO BE ADJUSTED AS NECESSARY.
- R12 ALL BATTERS ARE TO BE SCARIFIED TO ASSIST WITH ADHESION OF TOPSOIL TO BATTER FACE.
- R13 PROVIDE MIN. 300mm TOPSOIL WITH GRASS SEEDING ON FOOTPATHS. A 0.3m WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING, MAINTAINED AND REPLACED AS REQUIRED DURING THE MAINTENANCE PERIOD.
- R15 ALL ROADS ARE TO BE TEMPORARILY SEALED WITH A 1 COAT SEAL, THE FINAL AC IS TO BE BONDED AND PLACED FOLLOWING APPROVAL FROM COUNCIL.
- R16 ALL LOT NUMBERS AND STREET NAMES TO BE STENCILLED ON KERB FACE.
- R17 VEHICULAR CROSSINGS SHALL BE CONSTRUCTED IN KERB & GUTTER WHERE SHOWN.
- R18 PRAM CROSSINGS SHALL BE CONSTRUCTED IN KERB & GUTTER IN ACCORDANCE WITH COUNCIL'S STANDARD DRAWING.
- R19 GUIDE POSTS SHALL BE 100 x 50 HARDWOOD, PAINTED WHITE AND DELINEATED.
- R20 STREET NAMES SIGNS SHALL BE ERECTED, WHERE SHOWN, IN ACCORDANCE WITH COUNCIL'S STANDARDS.

DRAINAGE:

- D4 ALL GULLY PITS TO BE COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS. ALL PITS ARE TO BE PCC STANDARD REFER TO DWG No. S801. ALL PITS TO BE BENCHED AND STREAMLINED, PITS OVER 1.2m DEPTH TO BE PROVIDED WITH STEP IRONS AND F82 REINFORCEMENT
- D5 CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28 DAYS U.N.O.
- D6 LINTEL LENGTH SHOWN ON DRAWINGS INDICATES LENGTH OF CLEAR OPENING.
- D7 ALL LONGITUDINAL PIPELINES IN ROADS ARE TO BE LOCATED UNDER KERBS AND GUTTERS AND TO BE BACKFILLED WITH WASHED RIVER SAND. A 3.0 m LENGTH OF AGLINE WRAPPED IN GEOFABRIC IS TO BE PROVIDED TO THE UPSTREAM SIDE OF PITS ON ALL INCOMING LINES UNLESS NOTED OTHERWISE.
- D8 ALL REINFORCED CONCRETE PIPES (RCP) TO BE CLASS 3 RUBBER RING JOINTED (RRJ) UP TO 750MM NOMINAL DIAMETER. PIPES ARE TO BE CLASS 2 FOR NOMINAL DIAMETERS LARGER THAN 750MM.
- D9 PROVIDE TEMPORARY TAILOUT DRAINS WITH MINIMUM FLOOR WIDTH 0.5 & SLOPE OF 1.0% WITH BATTERS AT 1:1.
- D11 CATCH DRAINS ARE TO BE CONSTRUCTED AS REQUIRED BY COUNCIL ENGINEER.
- D12 STANDARD PITS TO COUNCIL STANDARD WHERE DEPTH OF PIT EXCEEDS 2M REFER DRAWING C0019.
- D13 ALL DRAINAGE LINES THROUGH LOTS SHALL BE CONTAINED WITHIN THE FOLLOWING EASEMENTS-
 - a) INTERALLOTMENT DRAINS (C.D.L.) - 150mm DIA. - 1.5m WIDE MINIMUM
 - 225mm DIA. & 300mm DIA. - 2.0m WIDE MINIMUM
 - 375mm DIA. to 600mm DIA. - 2.5m WIDE MINIMUM
 - 675mm DIA. to 750mm DIA. - 3.0m WIDE MINIMUM
- D14 DRAINAGE LINES UNDER ROADS SHALL BE BACKFILLED WITH NON-COHESIVE SAND AND HAVE 3m OF SUBSOIL DRAIN WRAPPED IN APPROVED FILTER SOCK, DISCHARGING INTO DOWN STREAM PITS.
- D15 ALL INTERALLOTMENT DRAINAGE LINES SHALL BE LAID AT A MINIMUM GRADE OF 1%.
- D16 DRAINAGE LINES ON PLANS ARE DIAGRAMMATIC ONLY AND PIPE CENTRELINES SHALL ENTER AND EXIT PITS AT THE CENTRE OF THE RESPECTIVE PIT WALLS.

EROSION CONTROL MEASURES:

- EC1 CONTROLS AFFECTED BY WORKS ARE TO BE RE-ESTABLISHED PRIOR TO THE COMPLETION OF EACH DAYS WORK.
- EC2 THE CONTRACTOR IS TO STABILISE TOPSOIL STOCKPILE AND ALL DISTURBED AREAS AS SOON AS THEY REACH FINAL LEVELS. STABILISATION TO BE BY HYDROSEEDING OR OTHER METHOD APPROVED BY SUPERINTENDENT AND COUNCIL ENGINEER. ALL SEEDED AREAS TO BE WATERED TWICE WEEKLY UNTIL GRASS IS ESTABLISHED OR COVERED WITH BITUMEN HAY MULCH. SEED MIXTURE FOR RESERVES, FOOTWAYS AND EMBANKMENTS TO BE IN ACCORDANCE WITH PCC SPECIFICATION. FOR OTHER AREAS:
 - A RECOMMENDED LIST OF PLANT SPECIES FOR TEMPORARY COVER IS:

| | |
|---------------------------|--------|
| - JAPANESE MILLET 25kg/ha | SPRING |
| - OATS (RYECORN) 25kg/ha | SUMMER |
| - JAPANESE MILLET 10kg/ha | AUTUMN |
| - OATS (RYECORN) 30kg/ha | WINTER |
 - GYPSONUM AND MULTIGROW/ ENRICH FERTILIZER AT RATES TO BE DETERMINED BY SUBSOIL AND TOPSOIL TESTING.
 - A RECOMMENDED LIST OF PLANT SPECIES FOR PERMANENT GRASSING IS:

| | |
|---|---------|
| - DURATURF PARK BLEND (WRIGHT STEPHENSON SEED MIX) + COVER CROP | |
| - JAPANESE MILLET | 10kg/ha |
| - OATS (RYECORN) | 10kg/ha |
| - THOROUGHBRED TURF TALL FESCUE | 15kg/ha |
| - PERENNIAL RYEGRASS | 37kg/ha |
| - CHEWINGS FESCUE | 5kg/ha |
| - UNMULLED COUCH | 4kg/ha |
| - TACKIFYING AGENT (CURASO ² OR SIMILAR) | |
- EC3 WHERE SURFACE SLOPES ARE MORE THAN 6H:1V BITUMEN STRAW MULCH SHALL BE APPLIED AFTER SEEDING AT THE FOLLOWING RATES.
 - MULCH 0.5kg/m²
 - BITUMEN EMULSION 0.25 l/m (50% WATER, 50% SLOW BREAKING ANIONIC EMULSION MIX).
- EC4 DUST CONTROL MEASURES SHALL BE IMPLEMENTED CONTINUOUSLY DURING CONSTRUCTION WORKS TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCIL.
- EC5 TOPSOIL SHALL BE RESPREAD AND STABILISED AS SOON AS POSSIBLE. DISTURBED AREAS SHALL BE LEFT WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST KEYING IN TOPSOIL.
- EC6 THE CONTRACTOR SHALL TEMPORARILY REHABILITATE ANY DISTURBED AREAS WITHIN 60 DAYS. WHERE FINAL SHAPING HAS OCCURED THE CONTRACTOR SHALL PROVIDE FINAL REHABILITATION WITHIN 20 DAYS
- EC7 SEDIMENT BASINS SHALL BE MAINTAINED FOR THE ENTIRE DURATION OF THE PROJECT OR UNTIL SUCH TIME AS ALL DISTURBED AREAS ARE HYDROMULCHED.
- EC8 WHERE FLOCCULATION OF BASINS IS REQUIRED UNLESS OTHERWISE SPECIFIED THE RECOMMENDED INITIAL DOSING IS 30KG OF GYPSONUM PER 100 CUBIC METRES OF BASIN VOLUME. THE CONTRACTOR MAY VARY THIS RATE SUBJECT TO TESTING OF PREVIOUS WATER SAMPLES AND THE ACHIEVEMENTS OF THE REQUIRED WATER QUALITY STANDARDS.

EARTHWORKS:

- E1 ALL PROPOSED EARTHWORKS, INCLUDING STRIPPING, FILLING AND COMPACTION SHALL BE:
 - A) UNDERTAKEN IN ACCORDANCE WITH COUNCIL'S CURRENT "GUIDELINES FOR ENGINEERING WORKS FOR SUBDIVISIONS AND DEVELOPMENTS, A53798 " GUIDELINES FOR EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENT" (AS AMENDED), AND APPROVED CONSTRUCTION DRAWINGS.
 - B) SUPERVISED, MONITORED, INSPECTED, TESTED AND REPORTED ON BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER IN ACCORDANCE WITH A53798 APPENDIX B 2(A) LEVEL 1 AND APPENDIX C REQUIREMENTS BY A NATA REGISTERED LABORATORY APPOINTED BY THE APPLICANT. TWO COLLATED COPIES OF THE REPORT AND FILL PLAN SHALL BE FORWARDED TO COUNCIL.
 - C) CERTIFIED BY THE LABORATORY UPON COMPLETION AS COMPLYING, SO FAR IT HAS BEEN ABLE TO DETERMINE, WITH COUNCIL'S SPECIFICATION AND A53798, AND
 - D) COMPLETED TO THE SATISFACTION OF THE PRINCIPAL CERTIFYING AUTHORITY.
- E2 SITE FILL AREAS - THE CONTRACTOR'S REGISTERED SURVEYORS SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
- E3 ALL SITE FILLING TO BE COMPACTED TO 95% STANDARD COMPACTION. 100% STANDARD IN ROADS AND SHALL BE CONTROLLED BY A REGISTERED SOIL LABORATORY IN ACCORDANCE WITH COUNCIL'S "WORKS SPECIFICATIONS".

LEGEND

| PROPOSED | DESCRIPTION | EXISTING | FUTURE |
|----------|---|----------|--------|
| | STORMWATER PIPELINE | | |
| | STORMWATER DRAINAGE PITS | | |
| | DRAINAGE LINE No. 3 | | |
| | DRAINAGE PIT No. 10 | | |
| | CONCRETE HEADWALL | | |
| | SUBSOIL DRAIN | | |
| | STANDARD 150mm KERB AND GUTTER | | |
| | STANDARD ROLL KERB AND GUTTER | | |
| | STANDARD KERB ONLY | | |
| | STANDARD EDGE STRIP | | |
| | STANDARD MOUNTABLE KERB | | |
| | STANDARD DISH CROSSING | | |
| | VEHICULAR CROSSING | | |
| | PEDESTRIAN RAMP | | |
| | EDGE OF BITUMEN | | |
| | ROAD PAVEMENT | | |
| | BENCHMARK | | |
| | BATTERS | | |
| | CONCRETE PATHWAY | | |
| | CONTOURS | | |
| | SITE REGRADING AREA | | |
| | SERVICE LINES | | |
| | SEWER, GAS, WATER, ELECTRICITY | | |
| | COMMUNICATION LINES | | |
| | TELSTRA, OPTUS FIBRE | | |
| | OVER HEAD LINES AND POLES | | |
| | SERVICE PITS | | |
| | TELECOM PIT, ACCESS CHAMBER, HYDRANT, STOP VALVE, AIR VALVE | | |
| | LIMIT OF CONSTRUCTION | | |
| | LIMIT OF STAGE | | |
| | FENCE, POST AND RAIL FENCE, SECURITY FENCE | | |
| | LOT NUMBERS | | |
| | TREES TO REMOVE | | |
| | RETAINING WALL | | |
| | ROCK WALL | | |

STATE SIGNIFICANT DEVELOPMENT APPLICATION

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| Approval: BY: TOBY TAMES BE (Hons) GradDipMgt CPESC CPEng MIE Aust Manager - Urban Development SIGN: DATE: 19/6/12 | Client: LANDCOM Project: NORTH PENRITH - STAGE 2A X12016-PA |
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|--|---|
| | Drawing Title: STANDARD NOTES & LEGEND |
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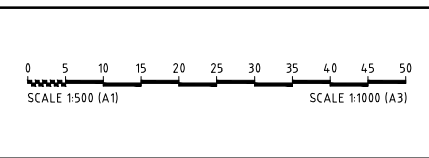
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FOR CONTINUATION REFER TO DRAWING No. 102

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MIEAust Manager - Urban Development
SIGN:
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Client: **LANDCOM**
Project: **NORTH PENRITH - STAGE 2A
X12016-PA**



Drawing Title: **ROADWORKS PLAN - SHEET
01 OF 02**
Project No.: X12016
Stage: 2A
Milestone: SSD
Dwg No.: 101
Revision: 03

| LEGEND | |
|--------|--|
| — E — | EXISTING SERVICES TO BE ADJUSTED TO SUIT |
| — S — | ADJUSTED TO SUIT |
| — T — | PROPOSED LAYOUT |



FOR CONTINUATION REFER TO DRAWING No. 101

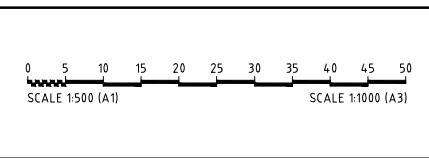
PROPOSED LANDSCAPING TO PLACE DESIGN GROUP PTY LTD DETAILS

PROVIDE VEHICLE CROSSING FOR FUTURE ACCESS TO THORNTON HOUSE, FUTURE ACCESS TO BE SUBMITTED AS SEPARATE APPLICATION

LIMIT OF WORKS AT CH 13.912 FOR CONTINUATION REFER TO STAGE 1 DESIGN BY WORLEY PARSONS REF: 301015-02381-C1-S1-111

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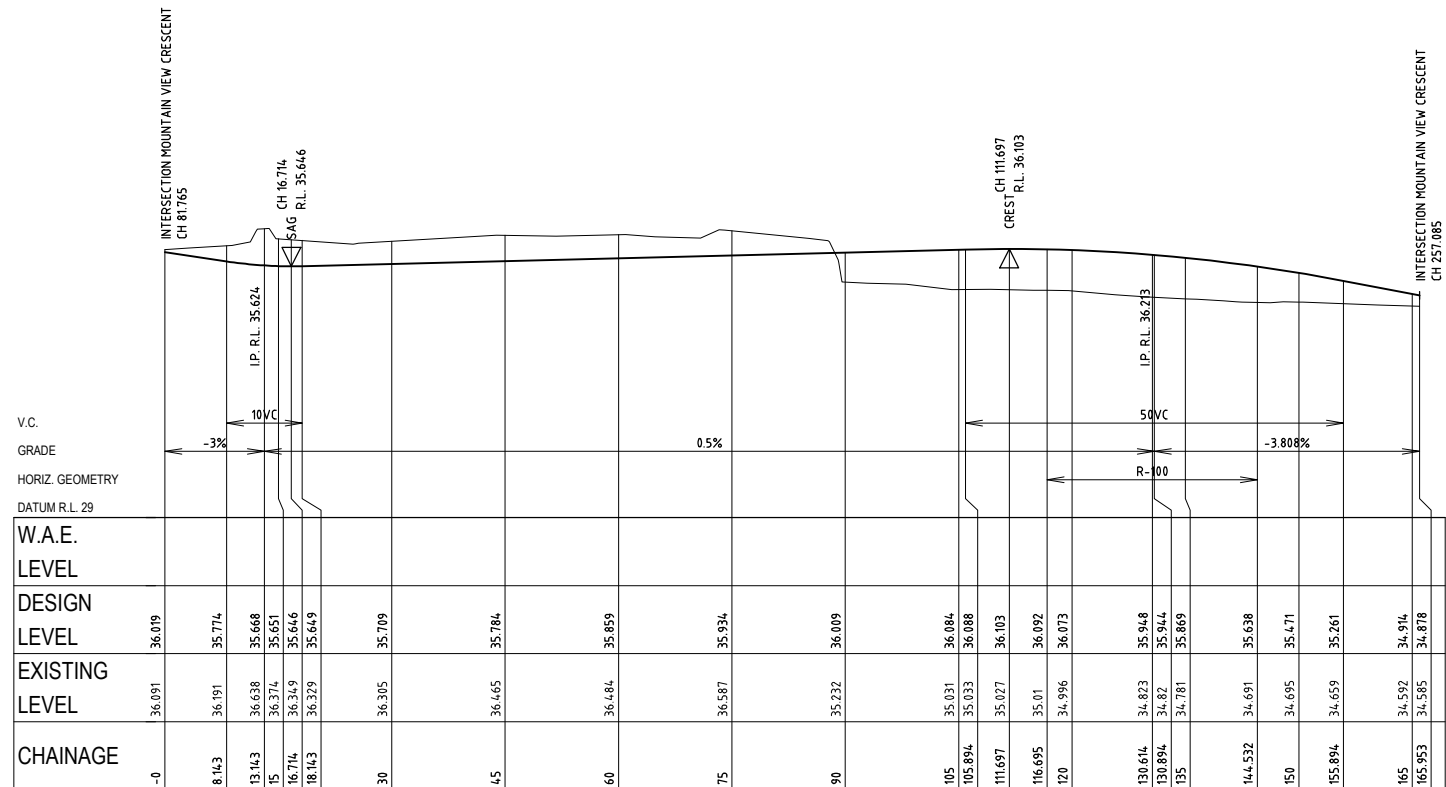
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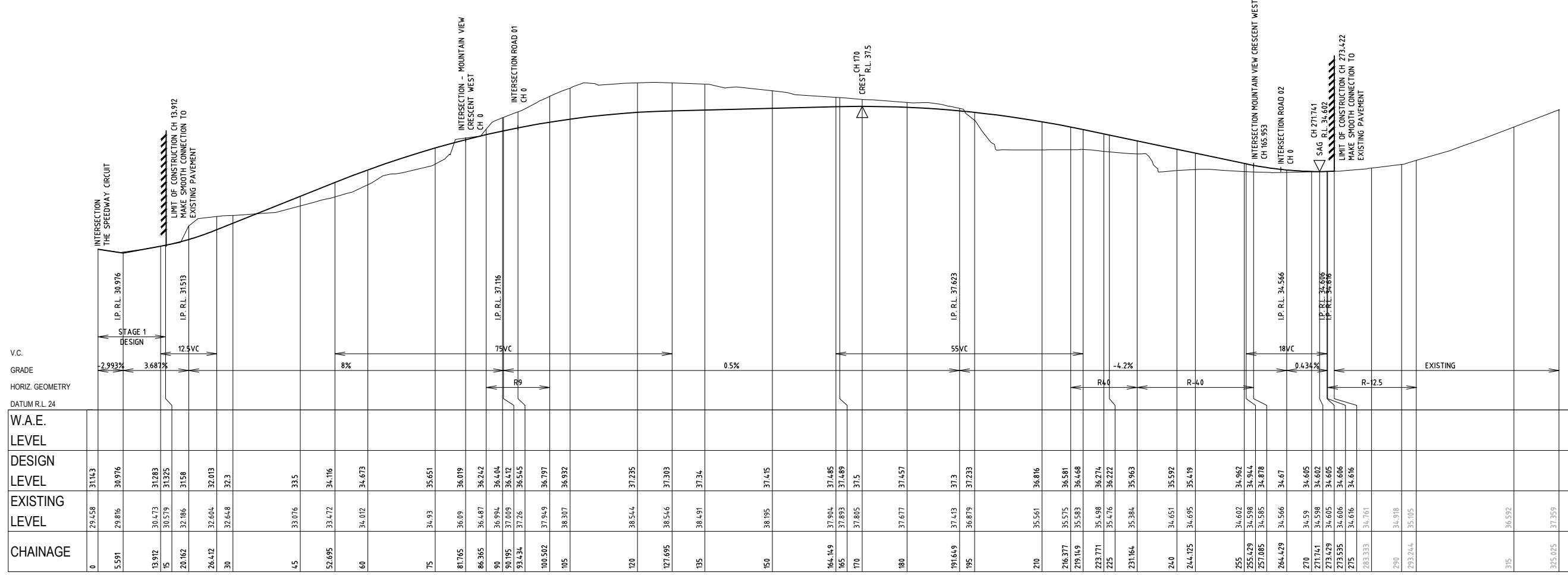
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| Drawing Title: ROADWORKS PLAN - SHEET 02 OF 02 | | | | |
| Project No.: X12016 | Stage: 2A | Milestone: SSD | Dwg No.: 102 | Revision: 03 |

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| LEGEND | |
|--------|----------------|
| — | DESIGN LEVEL |
| — | EXISTING LEVEL |



LONGITUDINAL SECTION CENTRELINES - MOUNTAIN VIEW CRESCENT WEST
SCALE 1:500 (H)
SCALE 1:100 (V)

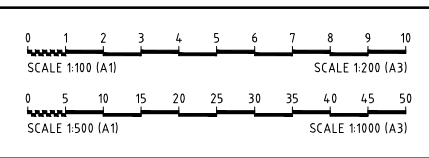


LONGITUDINAL SECTION CENTRELINES - MOUNTAIN VIEW CRESCENT
SCALE 1:500 (H)
SCALE 1:100 (V)

STATE SIGNIFICANT DEVELOPMENT APPLICATION

15-11-2012 10:58 AM: NORTH PENRITH STAGE 2A: STATE SIGNIFICANT DEVELOPMENT APPLICATION: 2D DWG: PRINTED: 8/18/12 10:58 AM: 15-11-2012

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MIE Aust Manager - Urban Development
SIGN: *[Signature]*
DATE: 19/6/12

Client: LANDCOM
Project: NORTH PENRITH - STAGE 2A
X12016-PA



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| Drawing Title: LONGITUDINAL SECTIONS - MOUNTAIN VIEW CRESCENT | | | | |
| Project No.: X12016 | Stage: 2A | Milestone: SSD | Dwg No.: 201 | Revision: 03 |

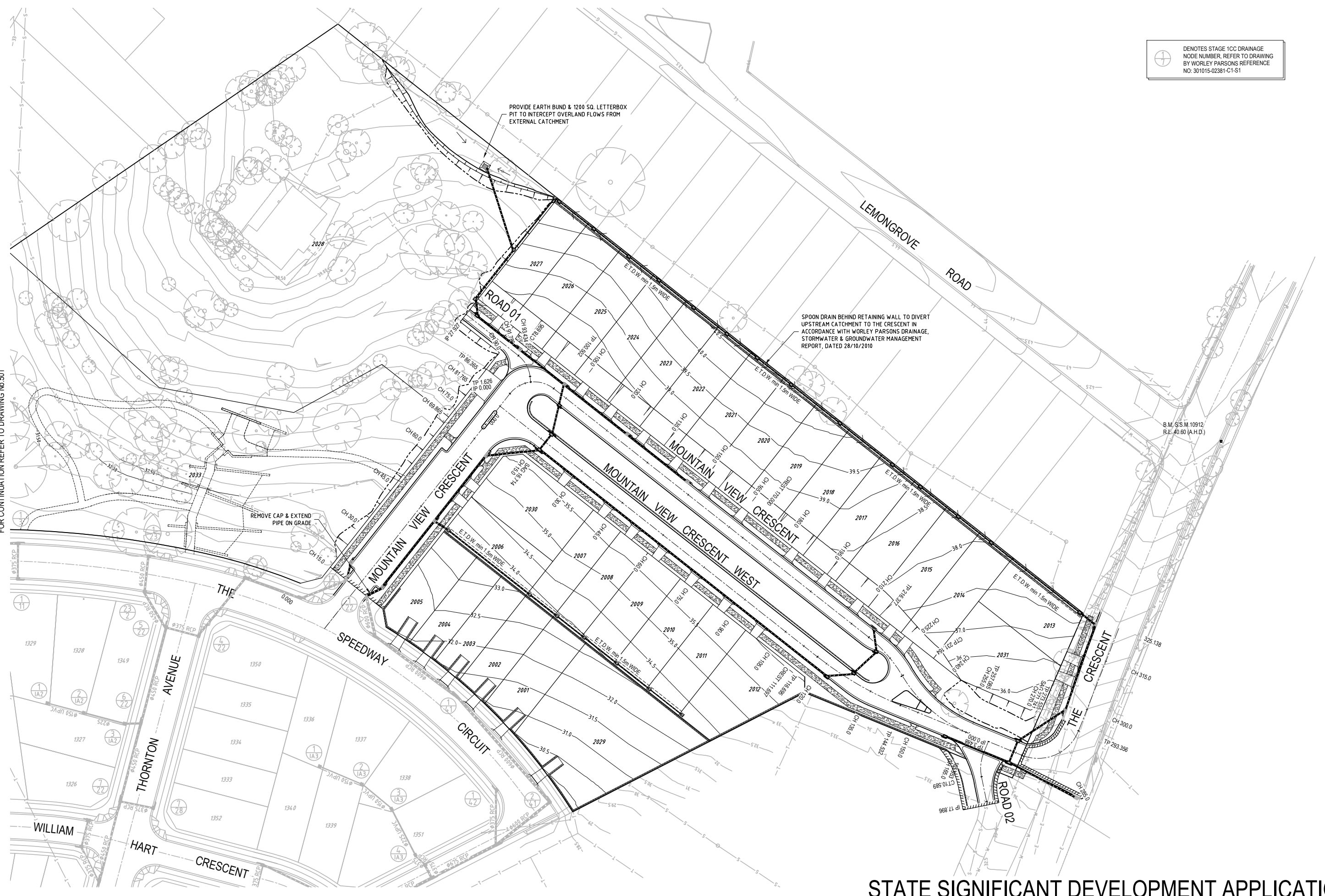
 DENOTES STAGE 1CC DRAINAGE NODE NUMBER, REFER TO DRAWING BY WORLEY PARSONS REFERENCE NO. 301015-02381-C1-S1

PROVIDE EARTH BUND & 1200 SQ. LETTERBOX PIT TO INTERCEPT OVERLAND FLOWS FROM EXTERNAL CATCHMENT

SPOON DRAIN BEHIND RETAINING WALL TO DIVERT UPSTREAM CATCHMENT TO THE CRESCENT IN ACCORDANCE WITH WORLEY PARSONS DRAINAGE, STORMWATER & GROUNDWATER MANAGEMENT REPORT, DATED 28/10/2010

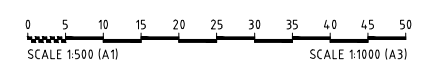
REMOVE CAP & EXTEND PIPE ON GRADE

FOR CONTINUATION REFER TO DRAWING No. 501



STATE SIGNIFICANT DEVELOPMENT APPLICATION

| Revision | Drawn | Design | Check | Appd. | Date | Revision Details |
|-------------|-------|--------|-------|-------|------------|-----------------------------------|
| P | | | | | 23/04/2012 | PRELIMINARY ISSUE |
| 01 | JM | PB | CB | TT | 5/06/2012 | ISSUED FOR PROJECT APPLICATION |
| 02 | JM | PB | CB | TT | 7/06/2012 | REVISED TO SUIT CLIENT'S COMMENTS |
| 03 | JM | PB | CB | TT | 19/06/2012 | REVISED TO SUIT CLIENT'S COMMENTS |
| First Issue | JM | PB | CB | TT | | |



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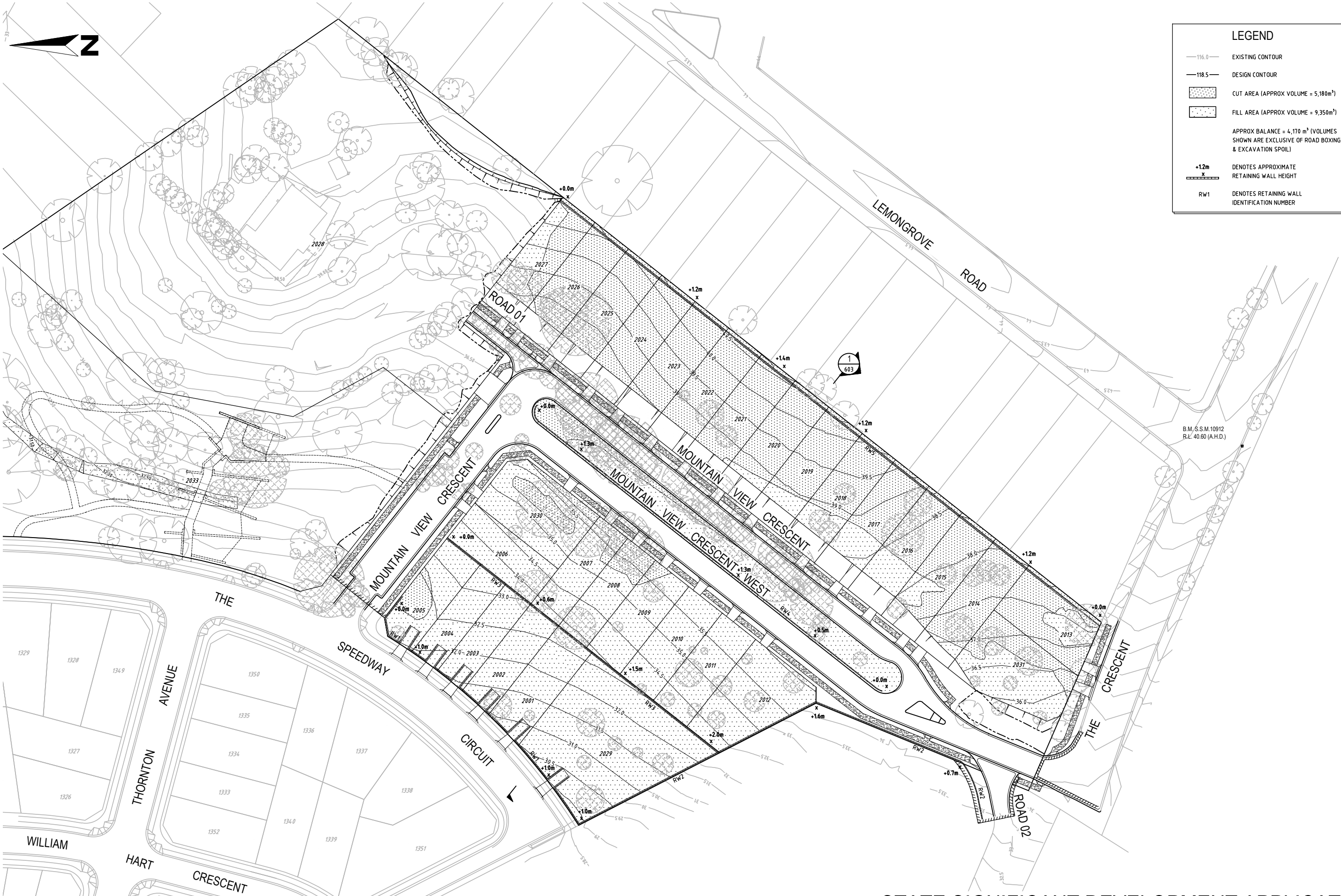
Approval:
 BY: TOBY TAMES
 BE (Hons) GradDipMgt CPESC CPEng
 MIEAust Manager
 SIGN Development
 DATE: 19/6/12

Client: LANDCOM
 Project: NORTH PENRITH - STAGE 2A
 X12016-PA



| | | | | |
|--|--------|------------|----------|-----------|
| Drawing Title: DRAINAGE PLAN - SHEET 02 OF 02 | | | | |
| Project No.: | Stage: | Milestone: | Dwg No.: | Revision: |
| X12016 | 2A | SSD | 502 | 03 |

15/06/2012 10:58:00 AM BROWNS CONSULTING PTY LTD



LEGEND

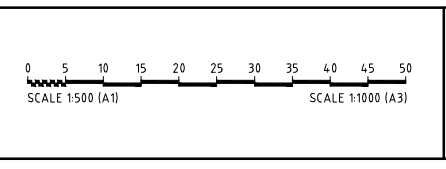
- 116.0— EXISTING CONTOUR
- 118.5— DESIGN CONTOUR
- [Pattern] CUT AREA (APPROX VOLUME = 5,180m³)
- [Pattern] FILL AREA (APPROX VOLUME = 9,350m³)
- APPROX BALANCE = 4,170 m³ (VOLUMES SHOWN ARE EXCLUSIVE OF ROAD BOXING & EXCAVATION SPOIL)
- +1.2m DENOTES APPROXIMATE RETAINING WALL HEIGHT
- RW1 DENOTES RETAINING WALL IDENTIFICATION NUMBER

FOR CONTINUATION REFER TO DRAWING No 601

B.M. S.S.M.10912
R.L. 40.60 (A.H.D.)

STATE SIGNIFICANT DEVELOPMENT APPLICATION

| Revision | Drawn | Design | Check | Appd. | Date | Revision Details |
|-------------|-------|--------|-------|-------|------------|-----------------------------------|
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| 03 | JM | PB | CB | TT | 19/06/2012 | REVISED TO SUIT CLIENT'S COMMENTS |
| First Issue | JM | PB | CB | TT | | |



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CONSULT AUSTRALIA
Member Firm

Approval:
BY: TOBY TAMES
BE (Hons) GradDipMgt CPESC CPEng
MIEAust Manager - Urban Development
SIGN: [Signature]
DATE: 19/6/12

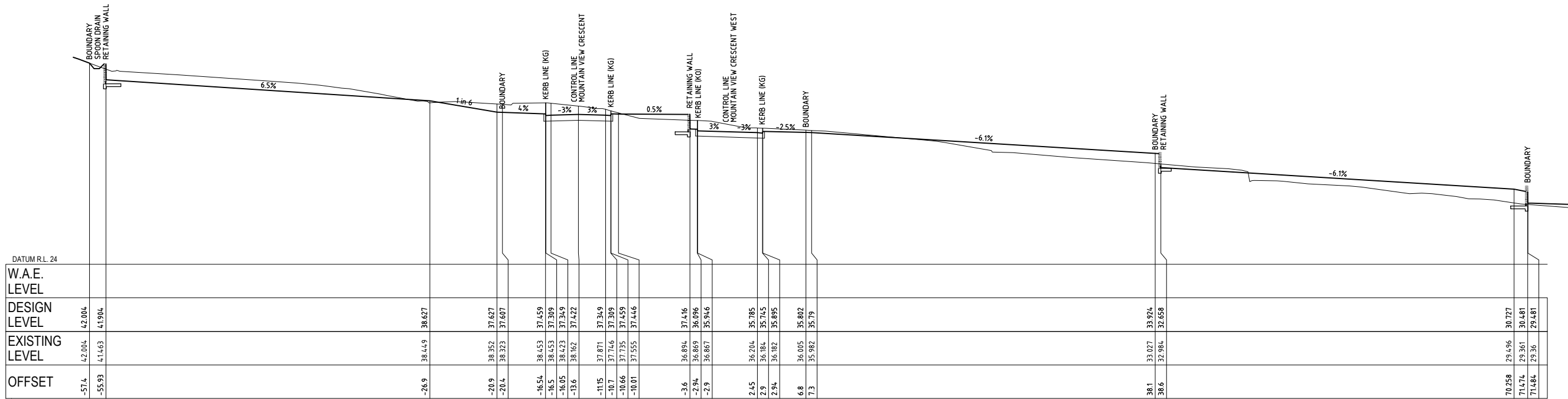
Client: LANDCOM
Project: NORTH PENRITH - STAGE 2A
X12016-PA



Drawing Title: SITE REGRADING PLAN - SHEET 02 OF 02

| | | | | |
|---------------------|-----------|----------------|--------------|--------------|
| Project No.: X12016 | Stage: 2A | Milestone: SSD | Dwg No.: 602 | Revision: 03 |
|---------------------|-----------|----------------|--------------|--------------|

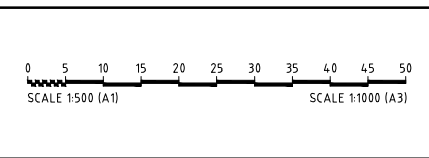
CONSULT AUSTRALIA MEMBER FIRM
 BROWN CONSULTING PTY LTD
 PRINTED DATE: 19/06/2012
 DRAWN: JM
 CHECKED: TT
 APPROVED: TT



SECTION 1
602 MOUNTAIN VIEW CRESCENT WEST - CH 60
HORIZONTAL 1:200
NATURAL

STATE SIGNIFICANT DEVELOPMENT APPLICATION

| Revision | Drawn | Design | Check | Appd. | Date | Revision Details |
|----------|-------|--------|-------|-------|------------|-----------------------------------|
| P | JM | PB | CB | | 23/04/2012 | PRELIMINARY ISSUE |
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| 03 | JM | PB | CB | TT | 19/06/2012 | REVISED TO SUIT CLIENT'S COMMENTS |



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Approval:
BY: TOBY TAMES
BE (Hons) GradDipMgt CPESC CPEng
MIEAust Manager - Urban Development
SIGN: *[Signature]*
DATE: 19/6/12

Client:
LANDCOM
Project:
NORTH PENRITH - STAGE 2A
X12016-PA


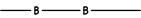





| | | | | |
|--|--------------|-------------------|-----------------|-----------------|
| Drawing Title: SITE REGRADING SECTION | | | | |
| Project No.: X12016 | Stage: 2A | Milestone: SSD | Dwg No.: 603 | Revision: 03 |

P:\Projects\12\NORTH PENRITH STAGE 2A\X12016-PA\Drawings\Site\SSD\603.dwg PRINTED DATE: 19/06/12 14:52:00



LEGEND

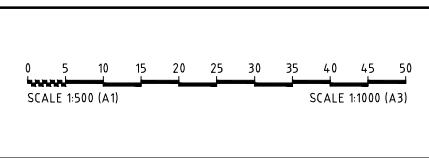
-  SEDIMENT FENCE
-  BARRIER FENCE
-  INLET SEDIMENT TRAP
DURING CONSTRUCTION,
KERB INLET CONTROL
AFTER CONSTRUCTION
-  POSSIBLE STOCKPILE LOCATION
-  STABILISED SITE ACCESS




FOR CONTINUATION REFER TO DRAWING No.702

STATE SIGNIFICANT DEVELOPMENT APPLICATION

| Revision | Drawn | Design | Check | Appd. | Date | Revision Details |
|----------|-------|--------|-------|-------|------------|-----------------------------------|
| P | JM | PB | CB | TT | 23/04/2012 | PRELIMINARY ISSUE |
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| 03 | JM | PB | CB | TT | 19/06/2012 | REVISED TO SUIT CLIENT'S COMMENTS |



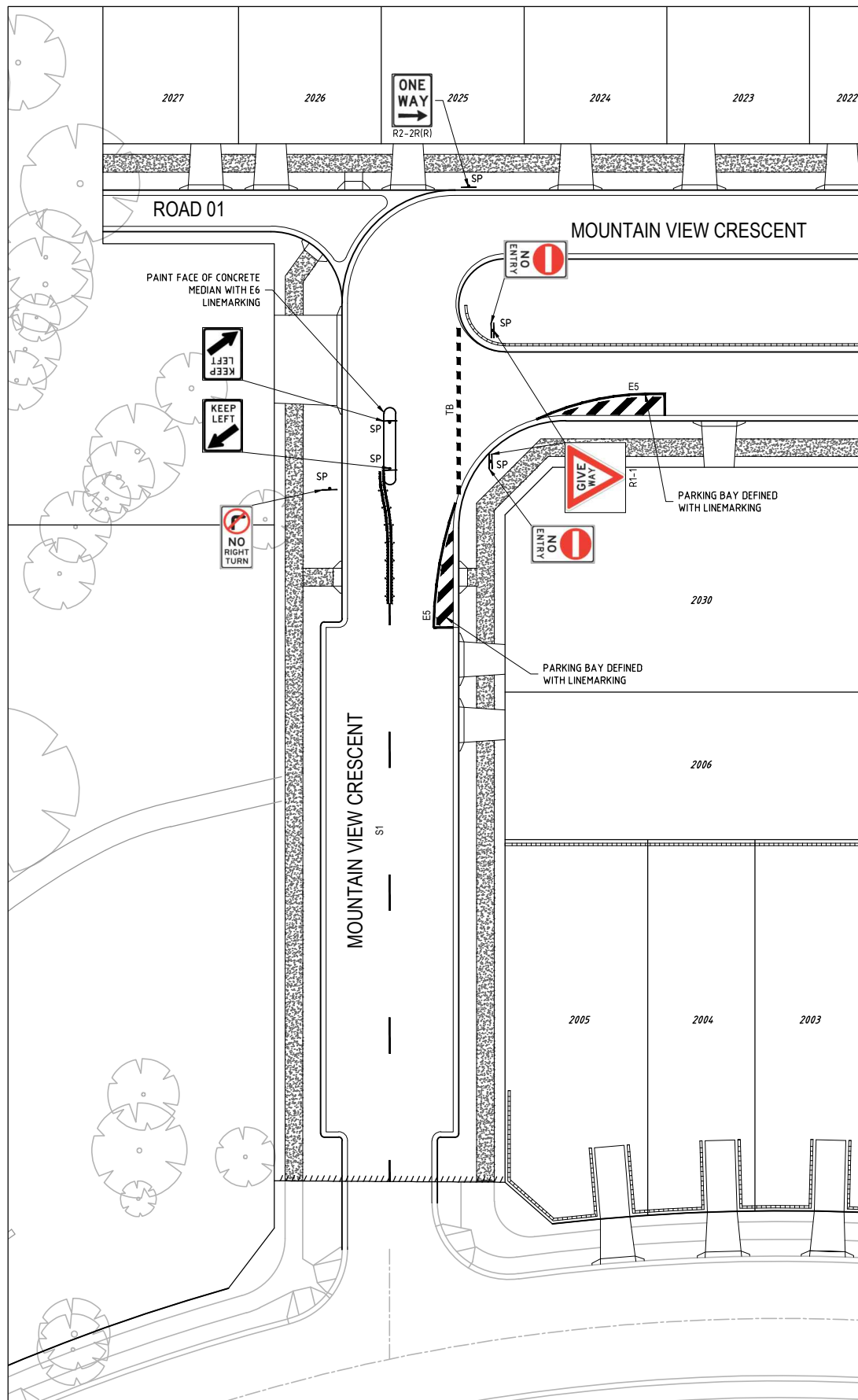
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Approval:
BY: **TOBY TAMES**
BE (Hons) GradDipMgt CPESC CPEng
MIEAust Manager - Urban Development
SIGN: 
DATE: 19/6/12

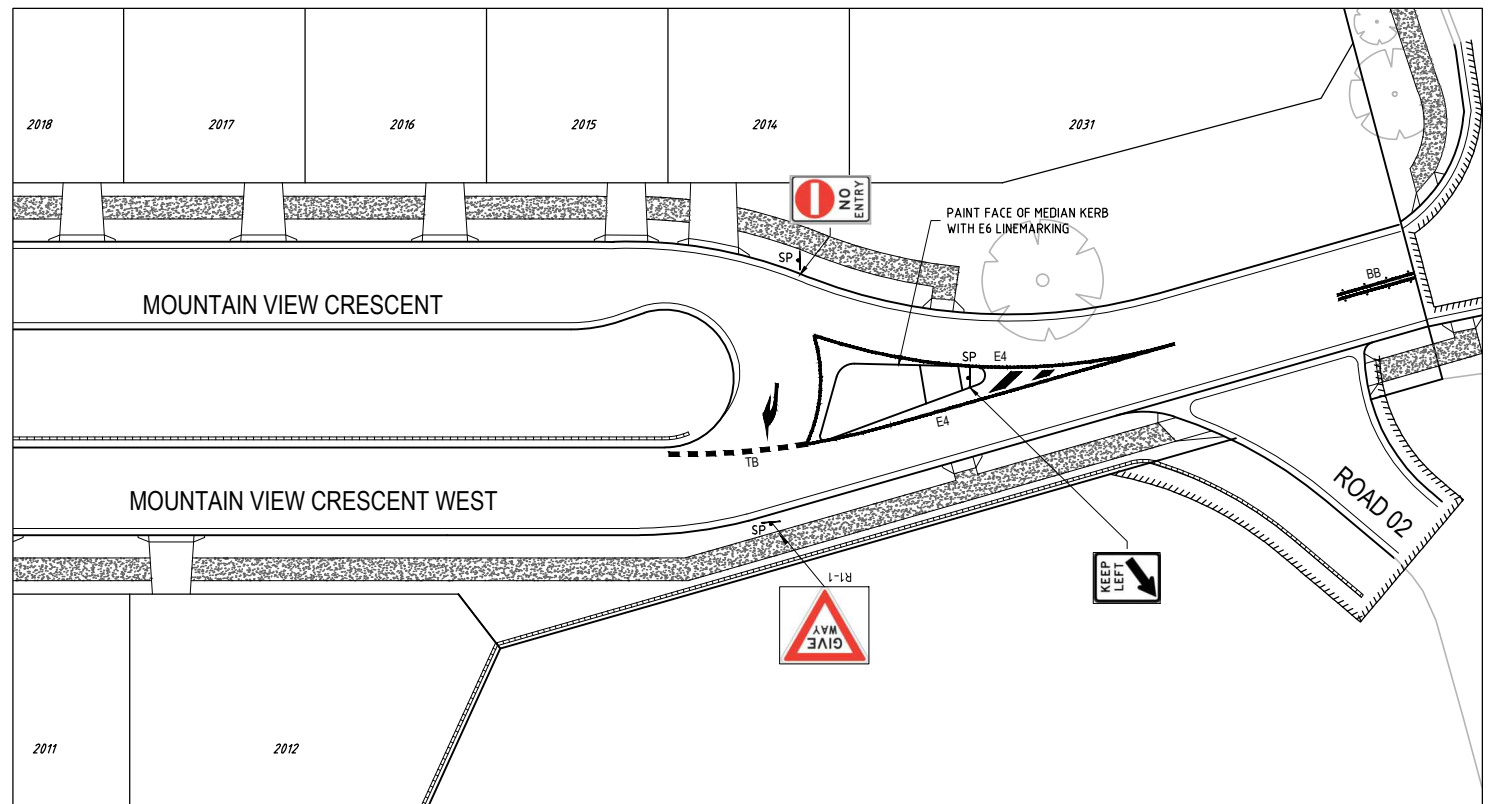
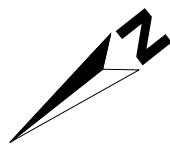
Client: **LANDCOM**
Project: **NORTH PENRITH - STAGE 2A
X12016-PA**



Drawing Title: **SEDIMENT & EROSION CONTROL
PLAN SHEET 01 OF 02**
Project No.: X12016 Stage: 2A Milestone: SSD Dwg No.: 701 Revision: 03



SIGN POST & LINEMARKING PLAN 1



SIGN POST & LINEMARKING PLAN 2

LINE MARKING LEGEND

| LINE TYPE | USE | DIMENSIONS (m) (FOR DIMENSIONS SHOWN * SEE MARKER SPACING COLUMN.) | COLOUR | RAISED MARKER TYPE | MARKER SPACING (# (m)) | |
|-----------|--|---|--------|--------------------|------------------------|-------------------------|
| | | | | | NORMAL SPACING (A) | ALTERNATIVE SPACING (B) |
| BB | 1. REPLACES DIVIDING (SEPARATION) LINE IF RESTRICTED SIGHT DISTANCE FOR BOTH DIRECTIONS OR 2. APPROACH TO MEDIAN ISLAND OR 3. APPROACHES TO A PEDESTRIAN CROSSING | | WHITE | | 12 | 12 |
| TB | GIVE WAY LINE (USED WITH SIGNS) | | WHITE | NOT REQUIRED | - | - |
| S1 | DIVIDING (SEPARATION) LINE ON 2 LANE ROAD | | WHITE | YY | 24 | 12 |
| E4 | OUTLINE OF TRAFFIC ISLAND OR FREEWAY RAMP GORE | | WHITE | Y R | 12 | 12 |
| E5 | OUTLINE OF PAINTED MEDIAN | | WHITE | YY | 12 | 12 |
| E6 | PAINTED ON INCLINED FACE OF KERB | | WHITE | N/A | N/A | N/A |

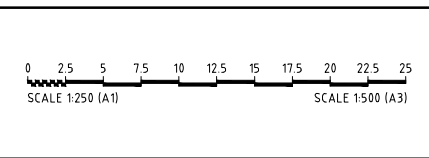
SIGN POSTING LEGEND

| | | | |
|--|--|--|----------------------------------|
| | REGULATORY SIGN R1-2 | | ONE WAY REGULATORY SIGN R2-2R(R) |
| | KEEP LEFT REGULATORY SIGN R2-3B(L) | | NO ENTRY REGULATORY SIGN R2-4 |
| | NO RIGHT HAND TURN REGULATORY SIGN R2-6(R) | | |

- NOTES:**
1. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE PENRITH CITY COUNCIL STANDARDS.
 2. ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS 1742.2.
 3. TRANSITION LINEMARKING TO SUIT EXISTING WHERE REQUIRED.
 4. PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.
 5. PROVIDE RETRO-REFLECTORISED PAVEMENT MARKERS TO AUSTRALIAN STANDARDS 1742.2.
 6. ALL LINEMARKING TO BE WHITE IN COLOUR.

STATE SIGNIFICANT DEVELOPMENT APPLICATION

| Revision | Drawn | Design | Check | Appd. | Date | Revision Details |
|----------|-------|--------|-------|-------|------------|-----------------------------------|
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| 03 | JM | PB | CB | TT | 19/06/2012 | REVISED TO SUIT CLIENT'S COMMENTS |



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Approval:
BY: TOBY TAMES
BE (Hons) GradDipMgt CPESC CPEng
MIEAust Manager - Urban Development
SIGN:
DATE: 19/6/12



Client: LANDCOM
Project: NORTH PENRITH - STAGE 2A
X12016-PA

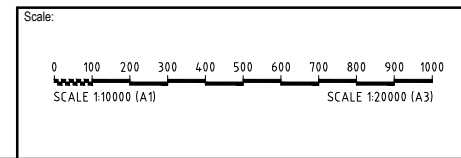


| | | | | |
|---|--------------|-------------------|-----------------|-----------------|
| Drawing Title: SIGN POSTING & LINEMARKING PLAN | | | | |
| Project No.: X12016 | Stage: 2A | Milestone: SSD | Dwg No.: 801 | Revision: 03 |



LEGEND

-  TREES TO BE REMOVED
-  TREES TO REMAIN



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Quality Endorsed Company

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Date: 22/06/2012

Design: P.B.

Drawn: J.M.

Client: LANDCOM

Project: NORTH PENRITH STAGE 2A



Drawing Title: TREE REMOVAL SKETCH

Drawing No: X12016-TR01

Revision: A