

The logo for Brown Smart Consulting features the word "BROWN" in a large, bold, blue sans-serif font. To the right of the "N" is a small orange square. Below "BROWN" is the phrase "Smart Consulting" in a smaller, orange, italicized serif font.

| | |
|---------------------------------------|--|
| GENERAL | |
| 000 | COVER SHEET |
| 001 | STANDARD NOTES & LEGEND |
| 002 | GENERAL LAYOUT PLAN |
| ROADWORKS | |
| 101 | ENGINEERING PLAN SHEET 01 OF 04 |
| 102 | ENGINEERING PLAN SHEET 02 OF 04 |
| 103 | ENGINEERING PLAN SHEET 03 OF 04 |
| 104 | ENGINEERING PLAN SHEET 04 OF 04 |
| 105 | INTERSECTION PLAN |
| 201 | ROAD No.01 LONGITUDINAL SECTION |
| 202 | ROAD No.01 LONGITUDINAL & TYPICAL CROSS SECTIONS |
| SITE REGRADING | |
| 601 | SITE REGRADING PLAN |
| 602 | SITE SECTIONS SHEET 01 OF 02 |
| 603 | SITE SECTIONS SHEET 02 OF 02 |
| 604 | EARTH BUND LAYOUT PLAN |
| 605 | EARTH BUND SECTIONS |
| SEDIMENT & EROSION CONTROL | |
| 701 | SEDIMENT & EROSION CONTROL PLAN |
| 702 | SEDIMENT & EROSION CONTROL NOTES & DETAILS |



LGA FAIRFIELD CITY COUNCIL
LOT 1, D.P. 106143



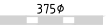






























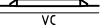


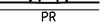
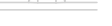
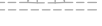





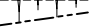





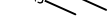



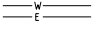








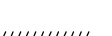

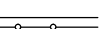











327-335 BURLEY ROAD, HORSLEY PARK

| | | | | |
|--------------|----------|------------|--------------|-----------|
| Project No.: | Stage: | Milestone: | Drawing No.: | Revision: |
| X13044.002 | 1, 2 & 3 | DA | 000 | 07 |

STANDARD NOTES

1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S STANDARDS AND SPECIFICATIONS AND/OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST AS FOUND NECESSARY. ALL COSTS TO BE BORNE BY THE APPLICANT, (NOT AT COUNCIL'S EXPENSE)
3. THE CONTRACTOR SHALL NOT ENTER UPON OR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT PRIOR WRITTEN PERMISSION OF THE LAND OWNER.
4. SURVEY MARKS SHOWN THUS SHALL BE MAINTAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE ENGINEER SHALL BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
5. ALL NEW WORKS SHALL MAKE SMOOTH JUNCTION WITH EXISTING CONDITIONS.
6. SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO SOIL DISTURBANCE IN KEEPING WITH THE "MANAGING STORMWATER MANUAL", 2004 BY LANDCOM AND TO THE SATISFACTION OF THE ENGINEER AND AS SHOWN IN THESE DRAWINGS.
7. THE CONTRACTOR SHALL CLEAR AND DISPOSE OF ONLY THOSE TREES THAT ARE CONDEMNED BY THE ENGINEER. COUNCIL'S TREE PRESERVATION ORDER SHALL BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT PRIOR APPROVAL.
8. THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES, OUT HOUSES, CAR BODIES, DEBRIS ETC. THE CONTRACTOR SHALL NOT DISPOSE OF ANY DEBRIS BY BURNING OFF IN AN OPEN FIRE.
9. UNSOUND MATERIALS AS DETERMINED BY THE ENGINEER SHALL BE REMOVED FROM ROADS AND LOTS PRIOR TO ANY FILLING. REFER NOTE 37.
10. ALL SITE REGRADING AREAS SHALL BE GRADED IN ACCORDANCE WITH FAIRFIELD CITY COUNCIL GUIDELINES AND WORK SPECIFICATIONS. THE CONTRACTOR SHALL TAKE LEVELS ON THE EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING ANY FILL OPERATIONS.
11. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED BY THE ENGINEER.
12. 100 DIA. SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES, TO COUNCIL'S STANDARD DRAWINGS FOR PITS.
13. MINIMUM 100mm THICK TOPSOIL SHALL BE SPREAD ON ALL FOOTPATHS, BERMS, BATTERS AND SITE REGRADING AREAS. EXCESS TOPSOIL SHALL BE DISPOSED OF AS DIRECTED BY THE ENGINEER.
14. ALL LAND DISTURBED BY EARTHWORKS SHALL BE SPRAY-GRASSED, OR SIMILARLY TREATED TO ESTABLISH GRASS COVER. SEED MIXTURES ARE TO BE APPROVED BY COUNCIL PRIOR TO SPRAYING. ALL GRASSED AREAS SHALL BE REGULARLY WATERED AND MAINTAINED UNTIL EXPIRATION OF THE MAINTENANCE PERIOD.
15. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
16. ALL PITS DEEPER THAN 1.2m SHALL HAVE STEP IRONS PROVIDED IN ACCORDANCE WITH COUNCIL'S STANDARDS.
17. ALL DRAINAGE LINES THROUGH LOTS SHALL BE CONTAINED WITHIN THEIR EASEMENTS AND CONFORM WITH COUNCIL'S STANDARDS.
18. ALL DRAINAGE LINES ON HIGH SIDE AND UNDER ROADS SHALL BE BACKFILLED WITH SHARP SAND AND HAVE 3.0m OF AGRICULTURAL LINE WRAPPED IN AN APPROVED FILTER FABRIC, DISCHARGING INTO THE DOWNSTREAM PIT.
19. SUBSOIL DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH BCC GUIDELINES AND SPECIFICATIONS.
20. PRECAST KERB INLET INTELS SHALL BE USED ON GULLY PITS. GULLY PITS SHALL BE IN ACCORDANCE WITH A(BS)106M.
21. INTERALLOTMENT DRAINAGE LINES SHALL HAVE A MINIMUM 300mm COVER AND DESIRABLE MINIMUM GRADE OF 1%.
22. 100mm DIAMETER ROOF DRAINAGE HOLES SHALL BE PROVIDED TO ALL LOTS DRAINING TO THE KERB AT THEIR DOWNSTREAM BOUNDARY.
23. PROVIDE VEHICULAR CROSSING IN KERB AND GUTTER WHERE SHOWN VC  OR WHERE DIRECTED BY THE ENGINEER.
24. GUIDE POSTS SHALL BE 100mm X 50mm HARDWOOD, PAINTED WHITE WITH REFLECTORS.
25. ERECT STREET NAME SIGNS, CONDUIT WARNING SIGNS AND NO THROUGH ROAD SIGNS WHERE SHOWN
26. ERECT STREET NAME SIGNS, CONDUIT WARNING SIGNS AND NO THROUGH ROAD SIGNS WHERE SHOWN THUS SP OR WHERE DIRECTED BY THE ENGINEER.
27. CONDUITS SHALL BE LAID AFTER POSITIONS HAVE BEEN DETERMINED BY THE RELEVANT AUTHORITIES AND BEFORE FINAL A.C. IS LAID.
28. POSITION OF ALL CONDUITS SHALL BE MARKED ON THE KERB.
29. FELLED TREES SHALL BE SALVAGED FOR REUSE AS WOODCHIP MULCH OR LOG FORM FOR SITE REHABILITATION. NON-SALVAGEABLE MATERIAL SUCH AS STUMPS AND ROOTS SHALL BE DISPOSED OF OFF SITE.
30. THE CONTRACTOR SHALL PROVIDE MINIMUM 24 HOURS NOTICE TO THE ENGINEER AND COUNCIL INSPECTOR FOR ALL INSPECTIONS.
31. THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO THE ADJOINING PROPERTIES.
32. THE CONTRACTOR SHALL UNDERTAKE TRAFFIC CONTROL MEASURES TO ENGINEERS SATISFACTION AND SHALL DISPLAY ALL APPROPRIATE WARNING SIGNS THROUGHOUT THE DURATION OF CONSTRUCTION.
33. ALL NATURAL SURFACE DATA HAS BEEN DETERMINED BY TERRAIN MODELLING. ALL CONSTRUCTION SITE WORKS MUST BE CARRIED OUT USING THE BENCH MARKS SHOWN ON THESE DRAWINGS.
34. THAT ALL LIGHT POLES, STREET NAME POLES AND BUS SHELTERS IN THIS SUBDIVISION WILL BE BLACK POWDER COATED TO THE SATISFACTION OF THE FAIRFIELD CITY COUNCIL.
35. PRAM RAMP AND PATHPAVING TO BE CONSTRUCTED AS SHOWN ON PLANS AND AS DIRECTED BY COUNCIL ON SITE.
36. ALL BATTERS ARE TO HAVE A MAXIMUM SLOPE OF 4(H):1(V).
37. PRIOR TO CONSTRUCTION THE CONTRACTOR SHOULD OBTAIN COPIES OF ALL RELEVANT GEOTECHNICAL REPORTS. WORKS SHOULD BE UNDERTAKEN IN ACCORDANCE WITH ADVICE AND RECOMMENDATIONS CONTAINED THEREIN.
38. UPON COMPLETION OF THE SITE REGRADE & APPROVED ROAD AND DRAINAGE WORKS AND PRIOR TO THE ISSUE OF THE SUBDIVISION CERTIFICATE, THE APPLICANT IS REQUIRED TO SUBMIT TO COUNCIL WRITTEN CERTIFICATION FROM APPROPRIATELY QUALIFIED GEOTECHNICAL CONSULTANTS THAT ALL THE RECOMMENDATIONS IN THE REPORTS REFERRED TO IN ITEM 37 ABOVE HAVE BEEN COMPLIED WITH.
39. 100 YEAR FLOW PATHS TO BE FORMED AT TIME OF CONSTRUCTION.
40. A TRAFFIC CONTROL PLAN IS TO BE PROVIDED TO COUNCIL PRIOR TO COMMENCEMENT OF WORKS.

LEGEND

| DESCRIPTION | PROPOSED | 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, FIBRE OPTIC |  |  |  |
| 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 | |  | |
| TREES |  |  |  |
| RETAINING WALL |  | | |

ISSUED FOR DEVELOPMENT APPLICATION

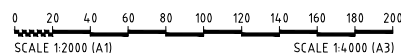
| | | | | | | | | | | | | | |
|---|-------------|-------|--------|-------|-----------|--------------------------|---|---|----------------------------|---|---|---|---|
| Revisions <small>FILE: X130404 - CSR ROAD & DRAINAGE</small> | 02 | JM | JM | | 5/12/2014 | ISSUED FOR CLIENT REVIEW | Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. | Authorised for Issue: by: STUART GREEN FIEAust. CPEng, Manager - Urban Development SIGN:  | Client: CSR LIMITED | Project: 327-335 BURLEY ROAD, HORSLEY PARK ROAD & DRAINAGE DESIGN |  © 2014 www.brownconsulting.com.au | Drawing Title: STANDARD NOTES & LEGEND | |
| | 03 | JM | JM | TW | | 12/12/2014 | | | | | | | ISSUED FOR CLIENT REVIEW |
| | 04 | JM | JM | SG | | 17/12/2014 | | | | | | | ISSUED FOR CLIENT REVIEW |
| | 05 | JM | JM | TW | SG | 18/12/2014 | | | | | | | ISSUED FOR DEVELOPMENT APPLICATION |
| | 06 | JM | JM | SG | SG | 4/03/2015 | | | | | | | AMENDED SOUTHERN BOUNDARY RETAINING WALL |
| | 07 | JM | JM | SG | SG | 6/03/2015 | | | | | | | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL |
| | First Issue | Drawn | Design | Check | Appd. | Date | | | | | | | Revision Details |
| © Brown Consulting Pty Ltd | | | | | | |  | | | | | | |



SOURCE OF AERIAL IMAGE: NEARMAP, DATED: 21/11/2014

ISSUED FOR DEVELOPMENT APPLICATION

| Revisions | | | | | Revision Details | |
|-------------|----|----|----|------------|---|--|
| 02 | JM | JM | | 5/12/2014 | ISSUED FOR CLIENT REVIEW | |
| 03 | JM | JM | TW | 12/12/2014 | ISSUED FOR CLIENT REVIEW | |
| 04 | JM | JM | SG | 17/12/2014 | ISSUED FOR CLIENT REVIEW | |
| 05 | JM | JM | TW | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION | |
| 06 | JM | JM | SG | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL | |
| 07 | JM | JM | SG | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL | |
| First Issue | JM | JM | CB | 6/12/2013 | | |
| Drawn | | | | | | |
| Design | | | | | | |
| Check | | | | | | |
| Appd. | | | | | | |
| Date | | | | | | |



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY
CONTRACTOR PRIOR TO CONSTRUCTION. USE
WRITTEN DIMENSIONS ONLY, DO NOT SCALE.



© Brown Consulting Pty Ltd



Authorised for Issue:
BY: STUART GREEN
FIE Aust. CP Eng.
Manager - Urban Development
SIGN:

DATE: 6/12/13

Client:

CSR LIMITED

Project:

327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN



Drawing Title:
GENERAL LAYOUT PLAN

| | | | | |
|--------------|-------------|------------|----------|-----------|
| Project No.: | Stage: | Milestone: | Dwg No.: | Revision: |
| X13044.002 | 1, 2 & 3 DA | | 002 | 07 |

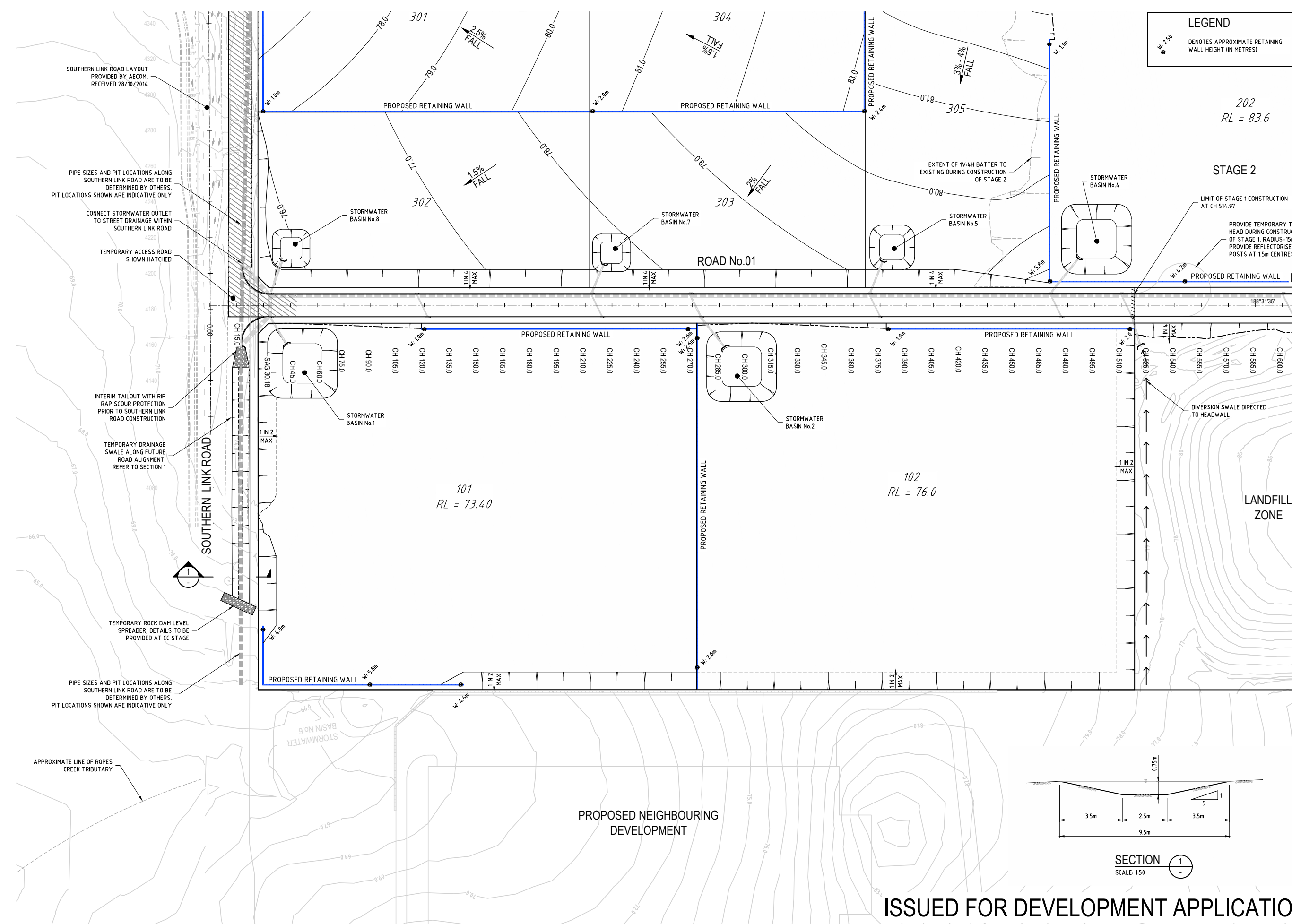


LEGEND

W: 2.50

•

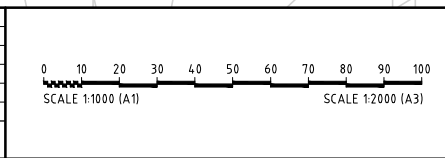
DENOTES APPROXIMATE RETAINING WALL HEIGHT (IN METRES)



SECTION 1
SCALE: 1:50

ISSUED FOR DEVELOPMENT APPLICATION

| Revisions | | Issue | Drawn | Design | Check | Appd. | Date | Revision Details |
|-----------|----|-------|-------|--------|-------|-------|------------|---|
| 02 | JM | JM | | | | | 5/12/2014 | ISSUED FOR CLIENT REVIEW |
| 03 | JM | JM | TW | | | | 12/12/2014 | ISSUED FOR CLIENT REVIEW |
| 04 | JM | JM | SG | | | | 17/12/2014 | ISSUED FOR CLIENT REVIEW |
| 05 | JM | JM | TW | SG | | | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| 06 | JM | JM | SG | SG | | | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL |
| 07 | JM | JM | SG | SG | | | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL |
| 08 | JM | JM | CB | SG | | | 6/12/2013 | |



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

CONSULT AUSTRALIA
Member Firm

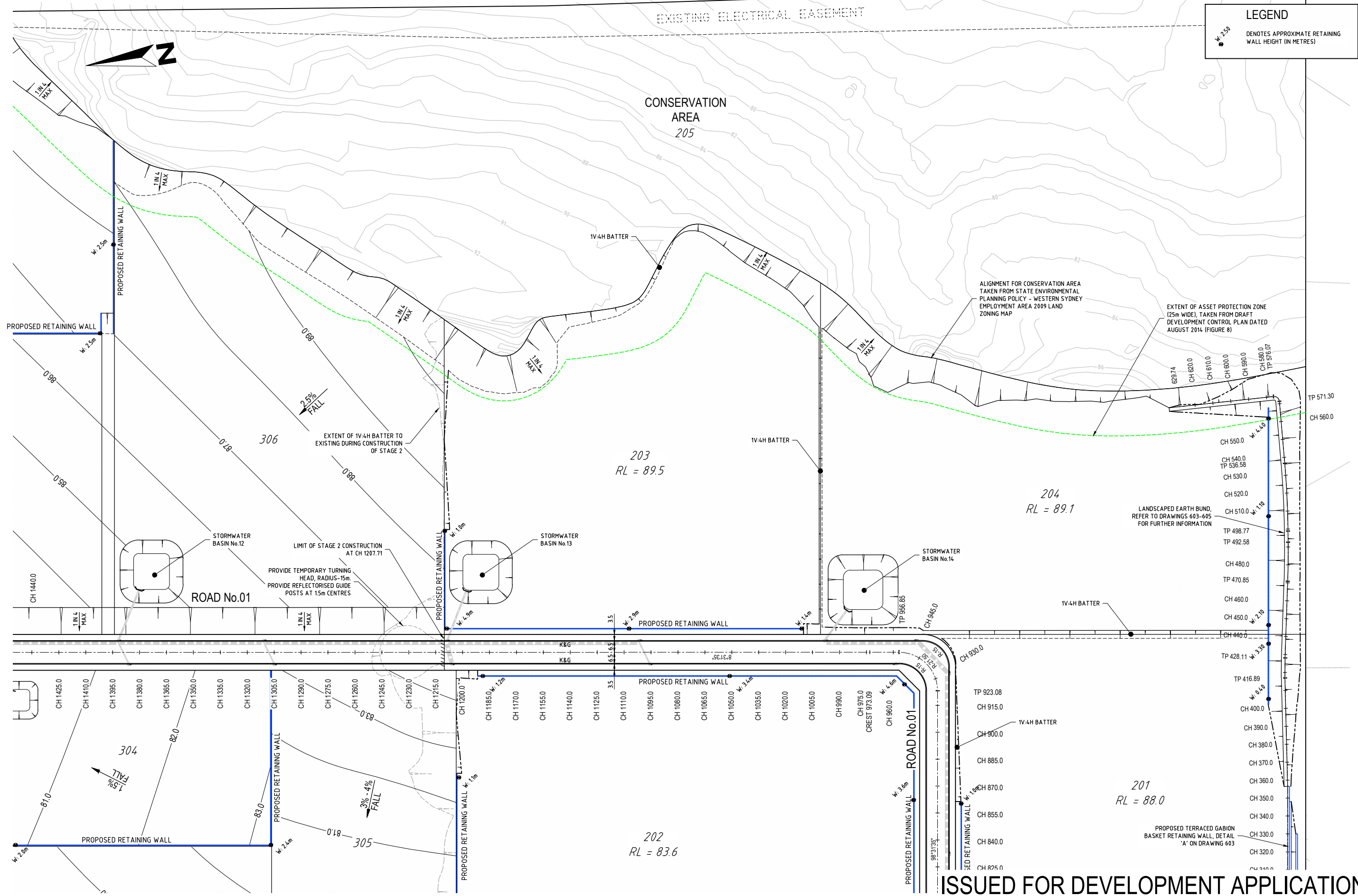
© Brown Consulting Pty Ltd

Authorised for Issue:
BY: STUART GREEN
FIEAust. CP Eng.
Manager - Urban Development
SIGN:
DATE: 6/12/15

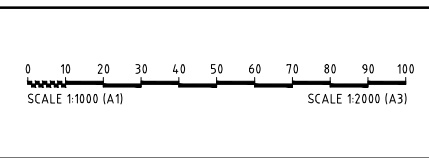
Client: CSR LIMITED
Project: 327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN

BROWN
Smart Consulting
© 2014
www.brownconsulting.com.au

Drawing Title: ENGINEERING PLAN
SHEET 01 OF 04
Project No.: X13044.002
Stage: 1, 2 & 3 DA
Milestone: 101
Dwg No.: 07
Revision: 07



| | | | | | |
|------------------|----|--------|-------|------------|---|
| 02 | JM | JM | | 5/12/2014 | ISSUED FOR CLIENT REVIEW |
| 03 | JM | JM | TW | 12/12/2014 | ISSUED FOR CLIENT REVIEW |
| 04 | JM | JM | SG | 17/12/2014 | ISSUED FOR CLIENT REVIEW |
| 05 | JM | JM | TW | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| 06 | JM | JM | SG | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL |
| 07 | JM | JM | SG | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL |
| First Issue | JM | JM | CB | 6/12/2013 | |
| Drawn | JM | Design | Check | Appd. | Date |
| Revision Details | | | | | |



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY
CONTRACTOR PRIOR TO CONSTRUCTION. USE
WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

CONSULT AUSTRALIA
Member Firm

Quality System
Quality Endorsed
Company

© Brown Consulting Pty Ltd

Authorised for Issue:
BY: STUART GREEN
FIEAust. CPEng,
Manager - Urban Development
SIGN: [Signature]
DATE: 6/12/15

Client: CSR LIMITED
Project: 327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN

BROWN
Smart Consulting
© 2014
www.brownconsulting.com.au

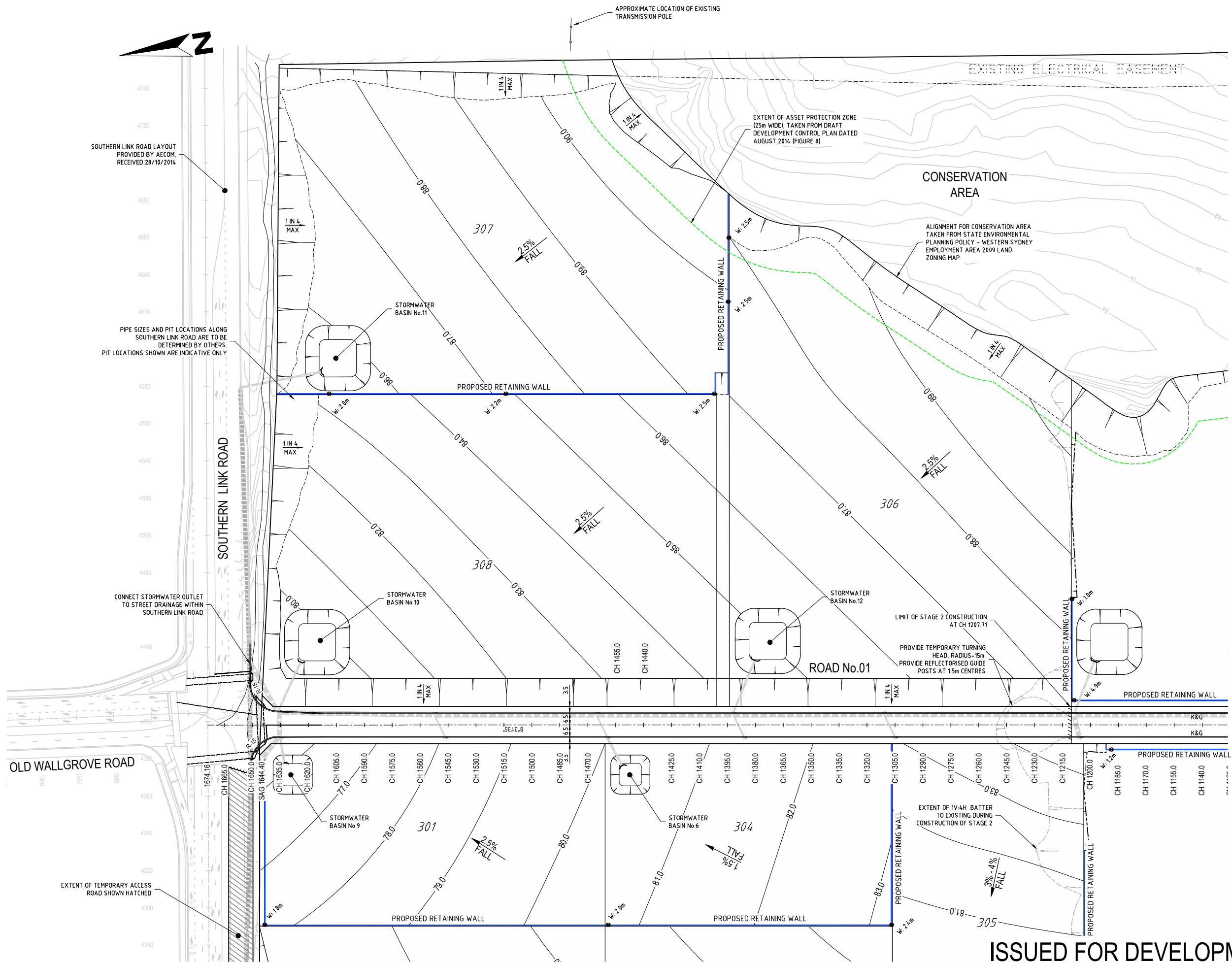
Drawing Title:
ENGINEERING PLAN
SHEET 03 OF 04
Project No.: X13044.002
Stage: 1, 2 & 3 DA
Milestone: 103
Dwg No.: 07
Revision: 07



LEGEND

W: 2.50

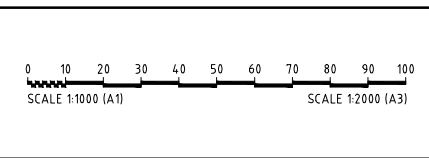
DENOTES APPROXIMATE RETAINING WALL HEIGHT (IN METRES)



ISSUED FOR DEVELOPMENT APPLICATION

| Revisions | | Date | Description |
|-------------|----|------|---|
| 02 | JM | JM | 5/12/2014 ISSUED FOR CLIENT REVIEW |
| 03 | JM | JM | 12/12/2014 ISSUED FOR CLIENT REVIEW |
| 04 | JM | JM | 17/12/2014 ISSUED FOR CLIENT REVIEW |
| 05 | JM | JM | 18/12/2014 ISSUED FOR DEVELOPMENT APPLICATION |
| 06 | JM | JM | 4/03/2015 AMENDED SOUTHERN BOUNDARY RETAINING WALL |
| 07 | JM | JM | 6/03/2015 AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL |
| First Issue | JM | JM | 6/12/2013 |
| Drawn | JM | CB | |
| Design | JM | SG | |
| Check | JM | SG | |
| Appd. | JM | SG | |
| Date | JM | SG | |

Revision Details



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

CONSULT AUSTRALIA
Member Firm

© Brown Consulting Pty Ltd

Authorised for Issue:
BY: STUART GREEN
FIEAust. CPEng.
Manager - Urban Development

SIGN:

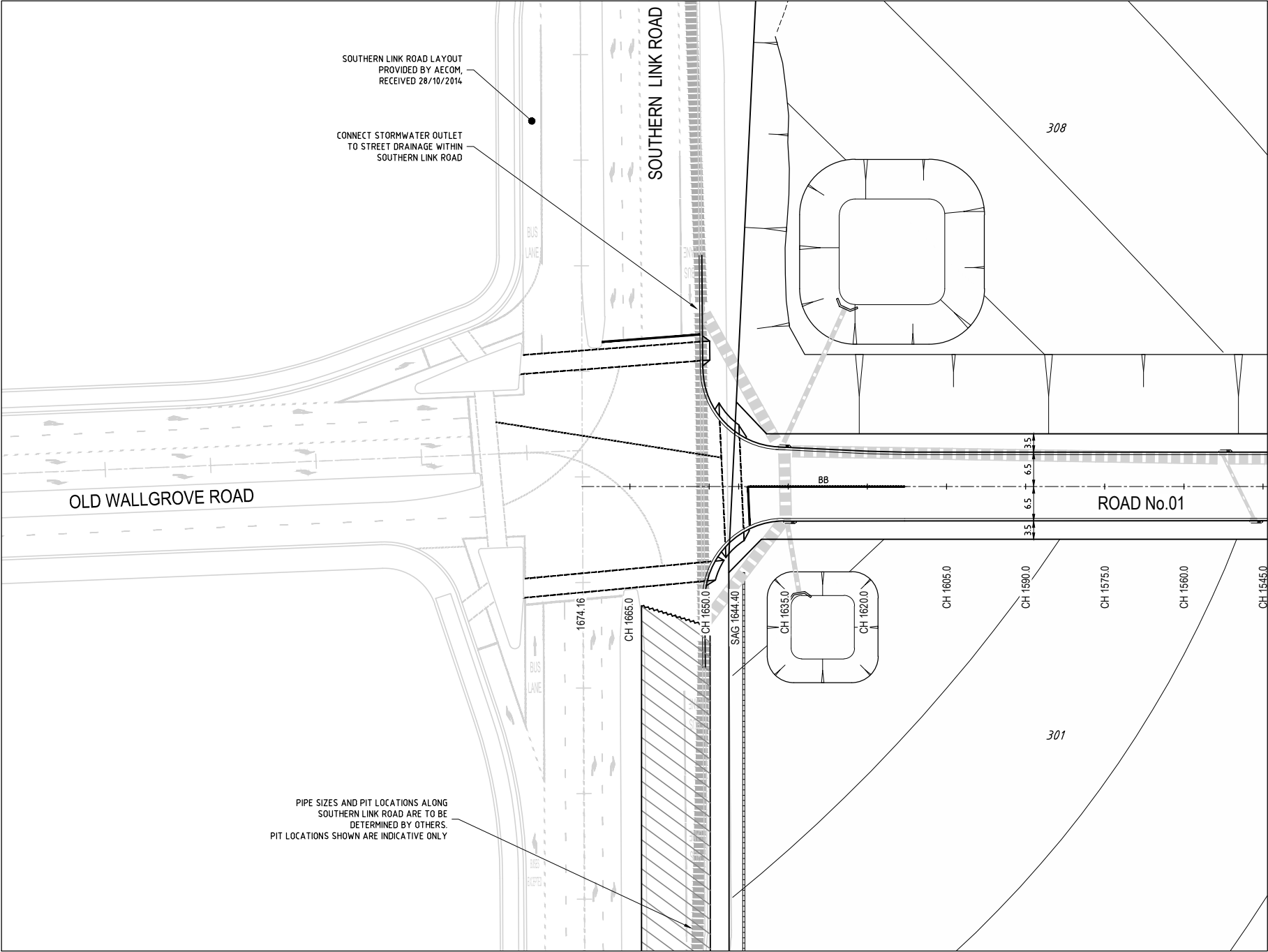
DATE: 6/12/13

Client:
CSR LIMITED

Project:
327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN

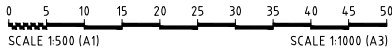
BROWN
Smart Consulting
© 2014
www.brownconsulting.com.au

| | | | |
|----------------|-------------|------------------|----------|
| Drawing Title: | | ENGINEERING PLAN | |
| | | SHEET 04 OF 04 | |
| Project No.: | Stage: | Milestone: | Dwg No.: |
| X13044.002 | 1, 2 & 3 DA | 104 | 07 |



ISSUED FOR DEVELOPMENT APPLICATION

| Revisions | | Drawn | Design | Check | Appd. | Date | Revision Details |
|-------------|----|-------|--------|-------|-------|------------|---|
| 02 | JM | JM | | | | 5/12/2014 | ISSUED FOR CLIENT REVIEW |
| 03 | JM | JM | TW | | | 12/12/2014 | ISSUED FOR CLIENT REVIEW |
| 04 | JM | JM | SG | | | 17/12/2014 | ISSUED FOR CLIENT REVIEW |
| 05 | JM | JM | TW | SG | | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| 06 | JM | JM | SG | SG | | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL |
| 07 | JM | JM | SG | SG | | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL |
| First Issue | JM | JM | CB | SG | | 6/12/2013 | |



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY
CONTRACTOR PRIOR TO CONSTRUCTION. USE
WRITTEN DIMENSIONS ONLY, DO NOT SCALE.



© Brown Consulting Pty Ltd

Authorised for Issue:
BY: STUART GREEN
FIEAust. CPEng.
Manager - Urban Development

SIGN:

DATE:

Client:

CSR LIMITED

Project:

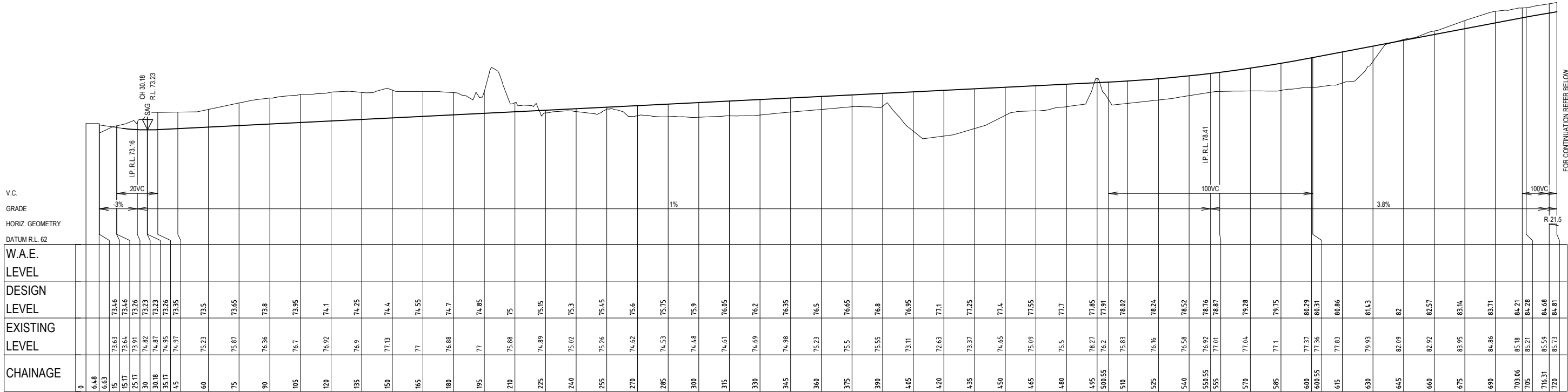
327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN



Drawing Title:

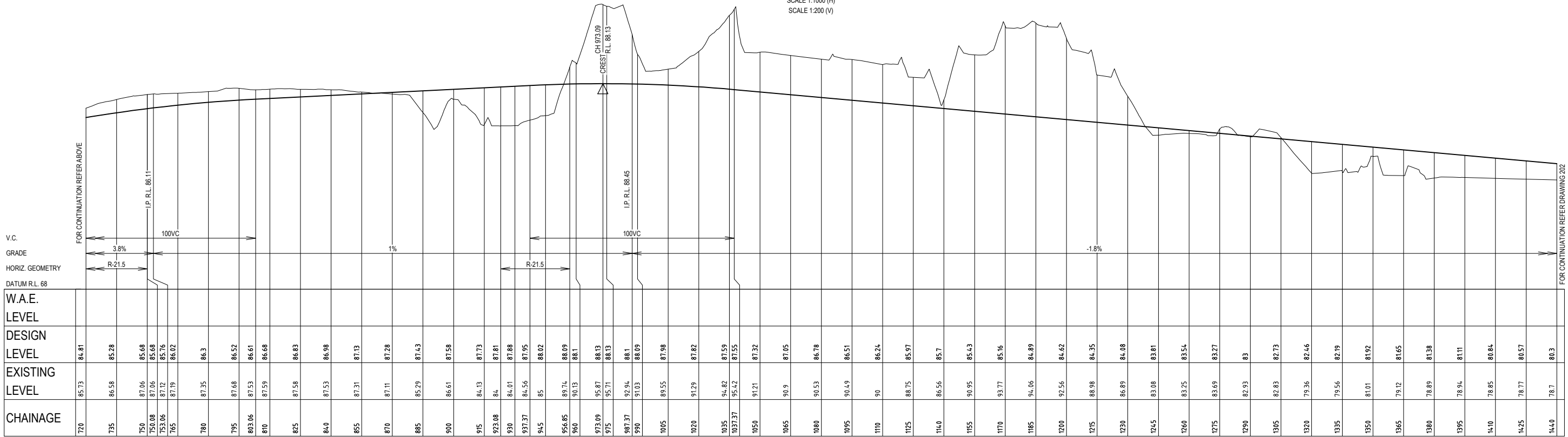
INTERSECTION PLAN

| Project No.: | Stage: | Milestone: | Dwg No.: | Revision: |
|--------------|-------------|------------|----------|-----------|
| X13044.002 | 1, 2 & 3 DA | | 105 | 07 |



LONGITUDINAL SECTION CENTRELINE - ROAD No.01

SCALE 1:1000 (H)
SCALE 1:200 (V)

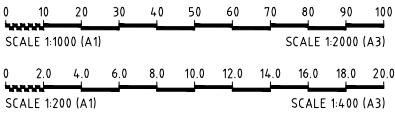


LONGITUDINAL SECTION CENTRELINE - ROAD No.01 CONT.

SCALE 1:1000 (H)
SCALE 1:200 (V)

ISSUED FOR DEVELOPMENT APPLICATION

| | | | | | |
|-------------|--------|-------|-------|------------|---|
| 02 | JM | JM | | 5/12/2014 | ISSUED FOR CLIENT REVIEW |
| 03 | JM | JM | TW | 12/12/2014 | ISSUED FOR CLIENT REVIEW |
| 04 | JM | JM | SG | 17/12/2014 | ISSUED FOR CLIENT REVIEW |
| 05 | JM | JM | TW | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| 06 | JM | JM | SG | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL |
| 07 | JM | JM | SG | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL |
| First Issue | JM | JM | CB | 6/12/2013 | |
| Drawn | Design | Check | Appd. | Date | Revision Details |



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY
CONTRACTOR PRIOR TO CONSTRUCTION. USE
WRITTEN DIMENSIONS ONLY, DO NOT SCALE.



© Brown Consulting Pty Ltd



Authorised for Issue:
BY: STUART GREEN
FIEAust. CPEng.
Manager - Urban Development

SIGN: [Signature]
DATE: [Date]

Client:

CSR LIMITED

Project:

327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN

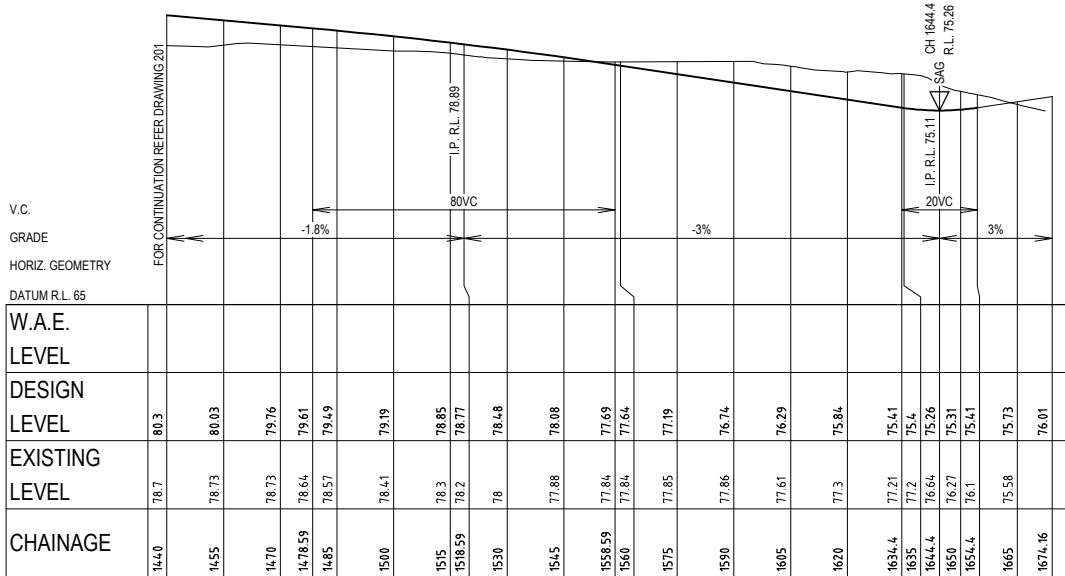


Drawing Title:

ROAD No.01 LONGITUDINAL
SECTION

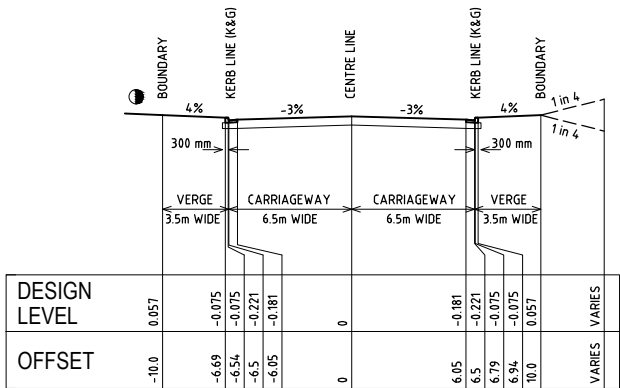
Project No.: X13044.002
Stage: 1, 2 & 3 DA
Milestone: 201
Dwg No.: 07
Revision:

● DENOTES REGRADING AREA, REFER TO SITE REGRADING PLAN ON DWG No. 601.



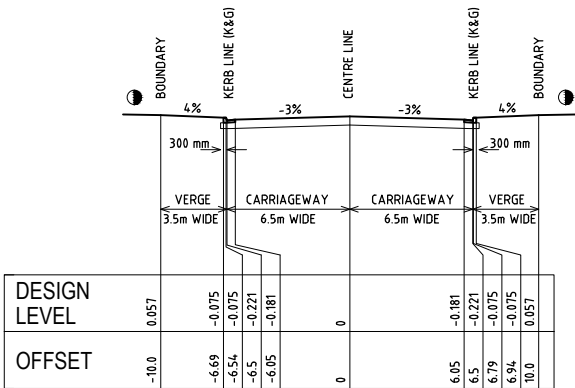
LONGITUDINAL SECTION CENTRELINE - ROAD No.01 CONT.

SCALE 1:1000 (H)
SCALE 1:200 (V)



TYPICAL CROSS SECTION - ROAD No.01
CH 0 to CH 720 & CH 998.03 to END

SCALE 1:100 (NATURAL)

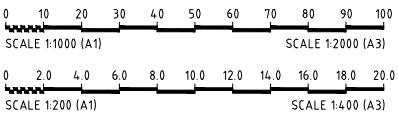


TYPICAL CROSS SECTION - ROAD No.01
CH 720 to CH 998.03

SCALE 1:100 (NATURAL)

ISSUED FOR DEVELOPMENT APPLICATION

| Rev | Issue | Drawn | Design | Check | Appd. | Date | Revision Details |
|-----|-------|-------|--------|-------|-------|------------|---|
| 02 | JM | JM | | | | 5/12/2014 | ISSUED FOR CLIENT REVIEW |
| 03 | JM | JM | TW | | | 12/12/2014 | ISSUED FOR CLIENT REVIEW |
| 04 | JM | JM | SG | | | 17/12/2014 | ISSUED FOR CLIENT REVIEW |
| 05 | JM | JM | TW | SG | | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| 06 | JM | JM | SG | SG | | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL |
| 07 | JM | JM | SG | SG | | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL |



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY
CONTRACTOR PRIOR TO CONSTRUCTION. USE
WRITTEN DIMENSIONS ONLY. DO NOT SCALE.



© Brown Consulting Pty Ltd



Authorised for Issue:
BY: STUART GREEN
FIE Aust. CP Eng.
Manager - Urban Development

SIGN:

DATE:

Client:

CSR LIMITED

Project:

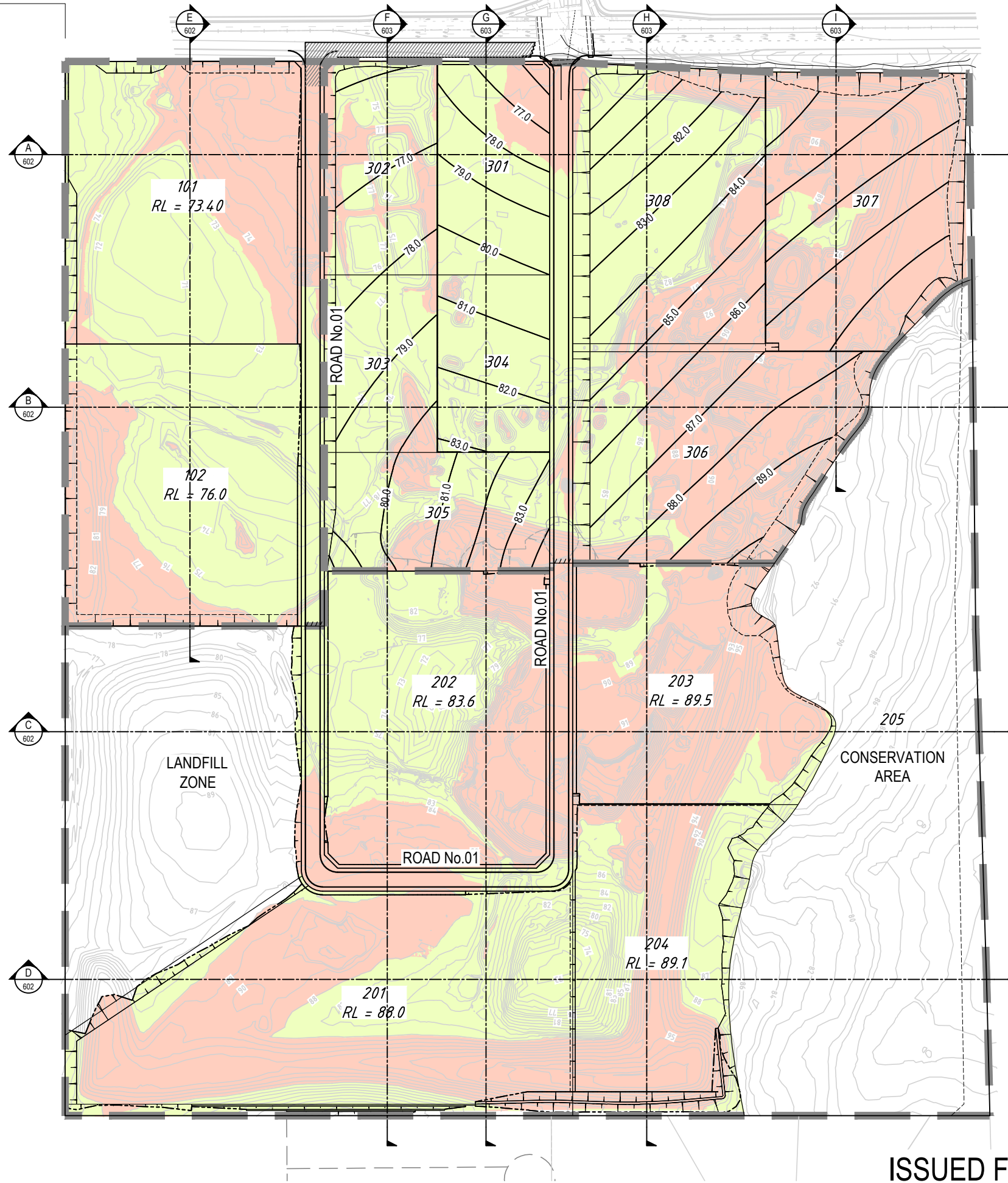
327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN



Drawing Title:

ROAD No.01 LONGITUDINAL &
TYPICAL CROSS SECTIONS

Project No.: X13044.002
Stage: 1, 2 & 3 DA
Milestone: 202
Dwg No.: 07
Revision:



| LEGEND | |
|--------|------------------|
| 116.0 | EXISTING CONTOUR |
| 118.5 | DESIGN CONTOUR |
| | CUT AREA |
| | FILL AREA |

| VOLUMES: | |
|-----------|-----------|
| STAGE 1: | |
| CUT - | 88,790m³ |
| FILL - | 142,215m³ |
| DEFICIT - | 53,515m³ |
| STAGE 2: | |
| CUT - | 435,580m³ |
| FILL - | 390,340m³ |
| SURPLUS - | 45,240m³ |
| STAGE 3: | |
| CUT - | 360,515m³ |
| FILL - | 249,345m³ |
| SURPLUS - | 111,170m³ |

ISSUED FOR DEVELOPMENT APPLICATION

| Revisions | |
|------------------|-------------------------------|
| 02 | JM JM |
| 03 | JM JM TW |
| 04 | JM JM SG |
| 05 | JM JM TW SG |
| 06 | JM JM SG SG |
| 07 | JM JM SG SG |
| First | JM JM CB SG |
| Issue | Drawn Design Check Appd. Date |
| Revision Details | |

| |
|---------------------------------------|
| 0 20 40 60 80 100 120 140 160 180 200 |
| SCALE 1:2000 (A1) |
| SCALE 1:4000 (A3) |

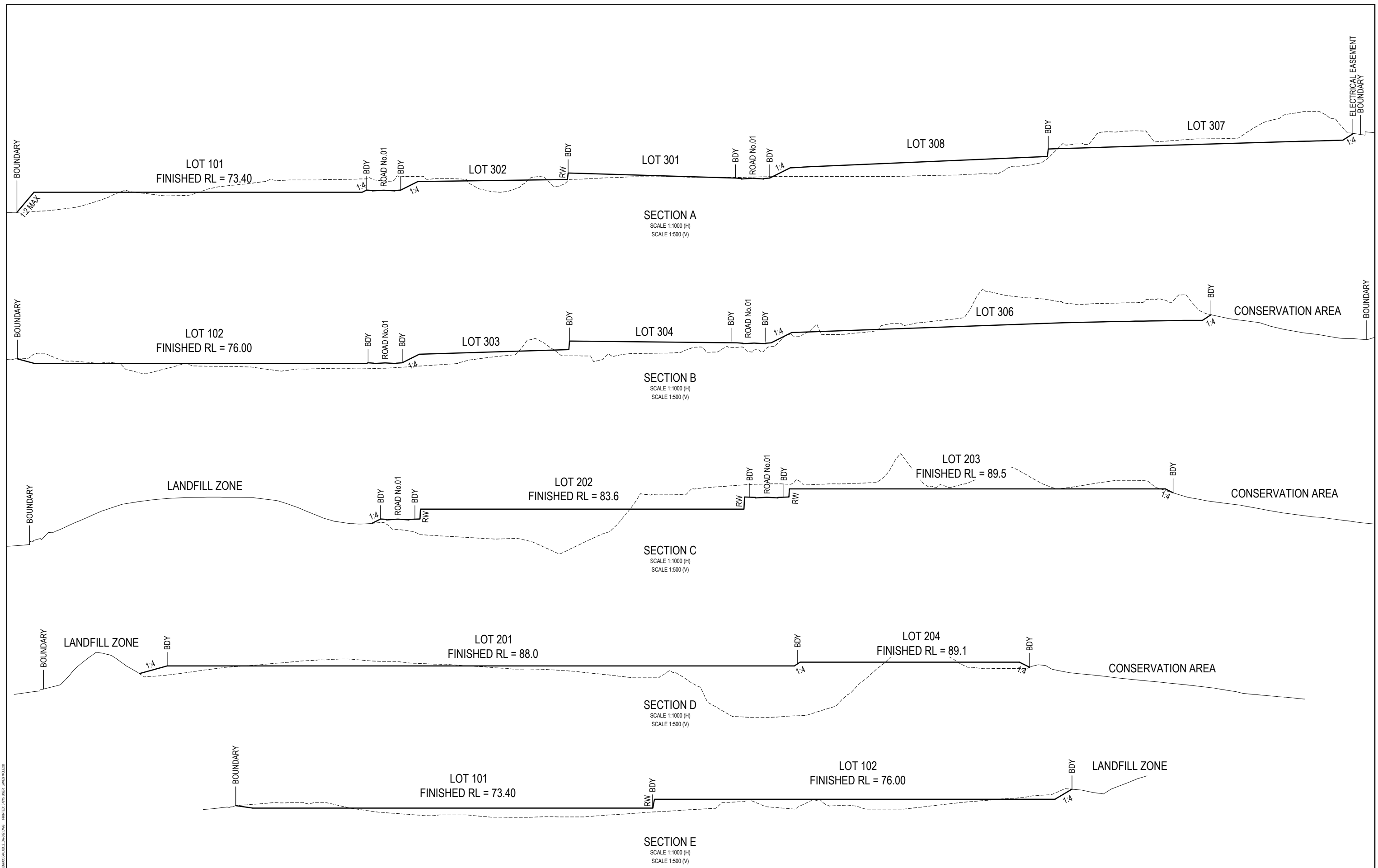
| |
|---|
| Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. |
| CONSULT AUSTRALIA Member Firm |
| © Brown Consulting Pty Ltd |

| |
|--|
| Authorised for Issue: BY: STUART GREEN FIEAust. CP Eng. Manager - Urban Development |
| SIGN: |
| DATE: |

| |
|---|
| Client: |
| CSR LIMITED |
| Project: |
| 327-335 BURLEY ROAD, HORSLEY PARK ROAD & DRAINAGE DESIGN |

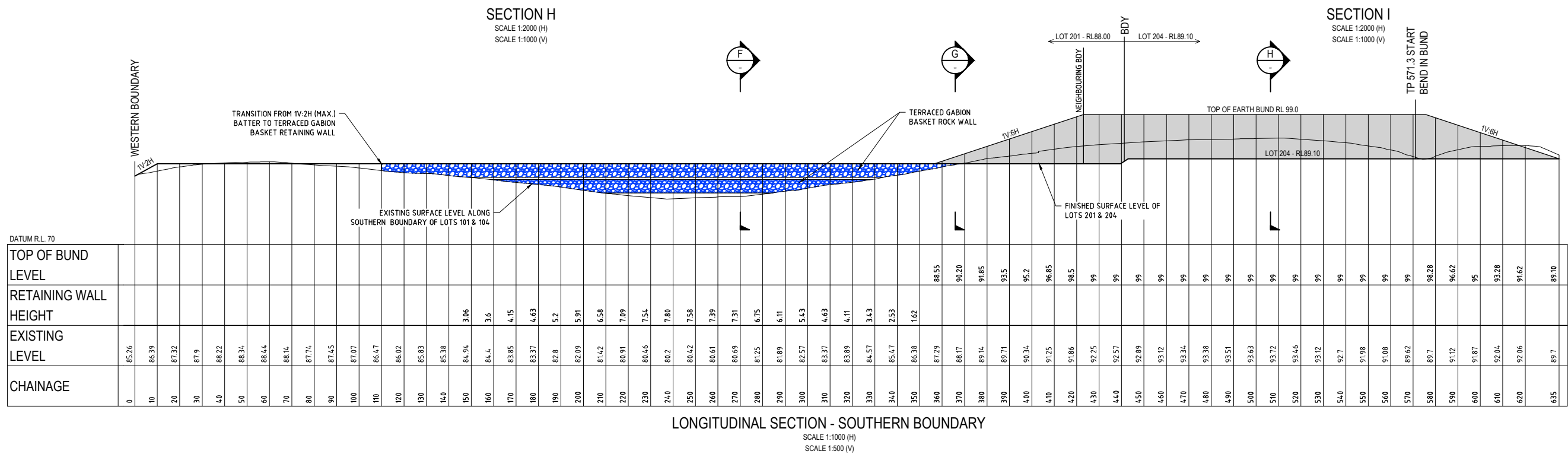
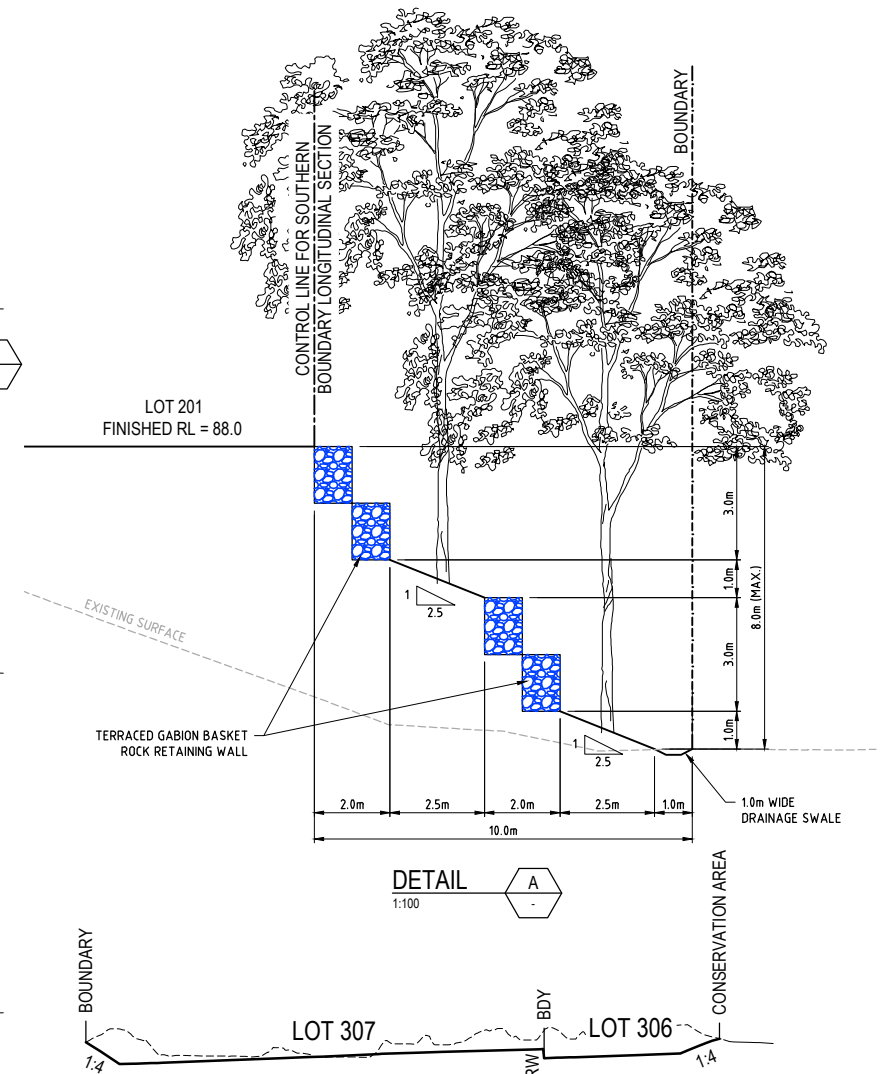
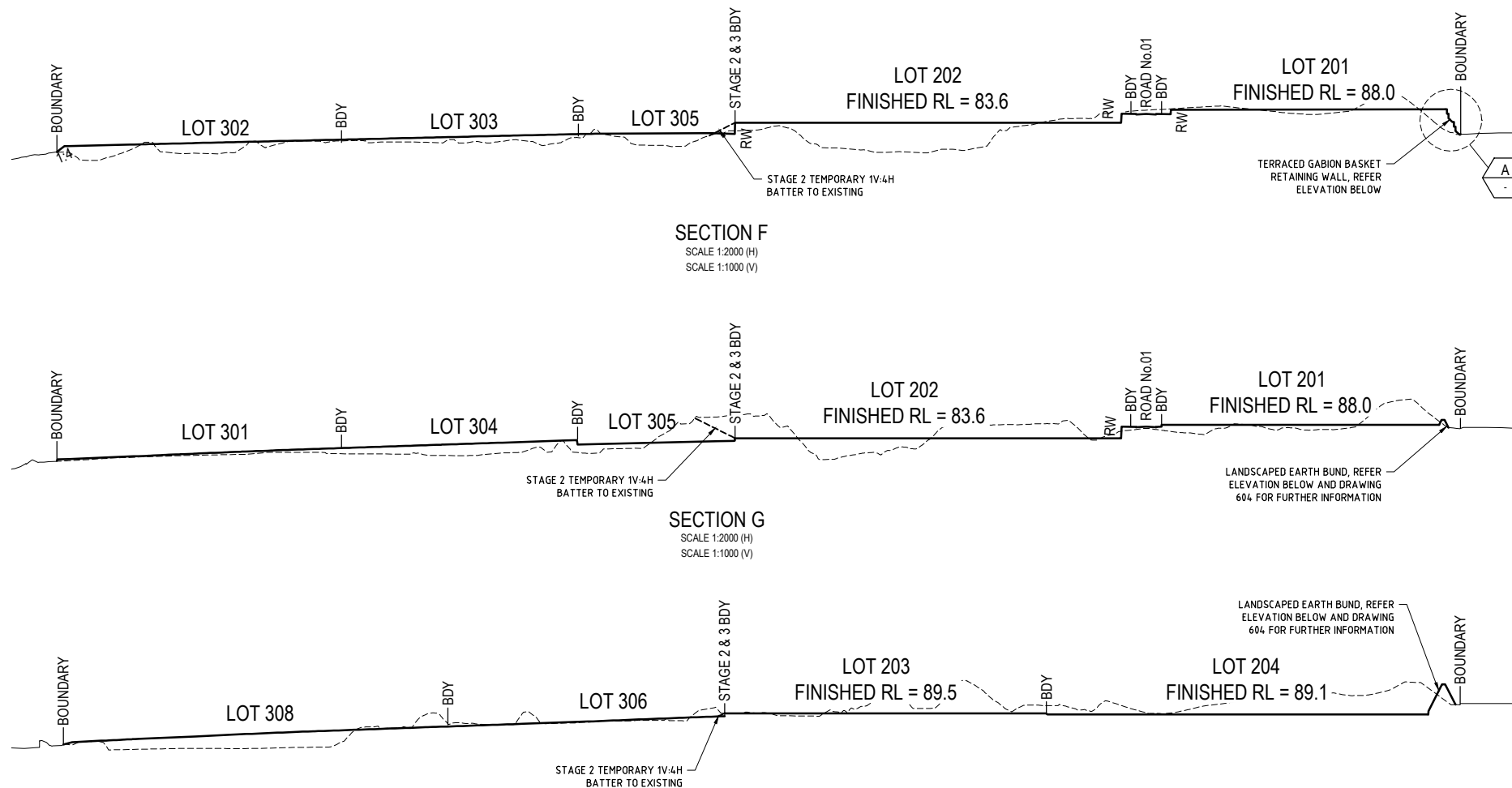
| |
|--------------------------------------|
| BROWN |
| Smart Consulting |
| © 2014 www.brownconsulting.com.au |

| |
|---------------------|
| Drawing Title: |
| SITE REGRADING PLAN |
| Project No.: |
| X13044.002 |
| Stage: |
| 1, 2 & 3 DA |
| Milestone: |
| 601 |
| Dwg No.: |
| 07 |
| Revision: |



ISSUED FOR DEVELOPMENT APPLICATION

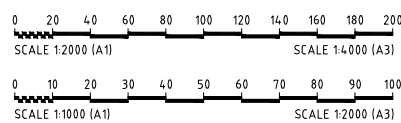
| <table><tr><td>02</td><td>JM</td><td>JM</td><td></td><td></td><td>5/12/2014</td><td>ISSUED FOR CLIENT REVIEW</td></tr><tr><td>03</td><td>JM</td><td>JM</td><td>TW</td><td></td><td>12/12/2014</td><td>ISSUED FOR CLIENT REVIEW</td></tr><tr><td>04</td><td>JM</td><td>JM</td><td>SG</td><td></td><td>17/12/2014</td><td>ISSUED FOR CLIENT REVIEW</td></tr><tr><td>05</td><td>JM</td><td>JM</td><td>TW</td><td>SG</td><td>18/12/2014</td><td>ISSUED FOR DEVELOPMENT APPLICATION</td></tr><tr><td>06</td><td>JM</td><td>JM</td><td>SG</td><td>SG</td><td>4/03/2015</td><td>AMENDED SOUTHERN BOUNDARY RETAINING WALL</td></tr><tr><td>07</td><td>JM</td><td>JM</td><td>SG</td><td>SG</td><td>6/03/2015</td><td>AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL</td></tr><tr><td>First Issue</td><td>JM</td><td>JM</td><td>CB</td><td>SG</td><td>6/12/2013</td><td></td></tr></table> <table><tr><th>Drawn</th><th>Design</th><th>Check</th><th>Appd.</th><th>Date</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> <p>Revision Details</p> | 02 | JM | JM | | | 5/12/2014 | ISSUED FOR CLIENT REVIEW | 03 | JM | JM | TW | | 12/12/2014 | ISSUED FOR CLIENT REVIEW | 04 | JM | JM | SG | | 17/12/2014 | ISSUED FOR CLIENT REVIEW | 05 | JM | JM | TW | SG | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION | 06 | JM | JM | SG | SG | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL | 07 | JM | JM | SG | SG | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL | First Issue | JM | JM | CB | SG | 6/12/2013 | | Drawn | Design | Check | Appd. | Date | | | | | | <div><div>0 10 20 30 40 50 60 70 80 90 100</div><p>SCALE 1:1000 (A1)</p><div>0 5 10 15 20 25 30 35 40 45 50</div><p>SCALE 1:500 (A1)</p></div> <div><p>SCALE 1:2000 (A3)</p><p>SCALE 1:1000 (A3)</p></div> | <p>Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.</p> <div><p>Member Firm</p></div> <div><p>Quality Endorsed Company</p></div> <p>© Brown Consulting Pty Ltd</p> | <p>Authorised for Issue: BY: STUART GREEN FIEAust. CPEng, Manager - Urban Development</p> <p>SIGN: </p> <p>DATE: 6/12/15</p> | <p>Client: CSR LIMITED</p> <p>Project: 327-335 BURLEY ROAD, HORSLEY PARK ROAD & DRAINAGE DESIGN</p> | <div><p>Smart Consulting</p><p>©2014 www.brownconsulting.com.au</p></div> | <p>Drawing Title: SITE SECTIONS SHEET 01 OF 02</p> <table><tr><td>Project No.:</td><td>Stage:</td><td>Milestone:</td><td>Dwg No.:</td><td>Revision:</td></tr><tr><td>X13044.002</td><td>1, 2 & 3 DA</td><td>602</td><td>07</td><td></td></tr></table> | Project No.: | Stage: | Milestone: | Dwg No.: | Revision: | X13044.002 | 1, 2 & 3 DA | 602 | 07 | |
|--|-------------|------------|----------|-----------|------------|---|--------------------------|----|----|----|----|--|------------|--------------------------|----|----|----|----|--|------------|--------------------------|----|----|----|----|----|------------|------------------------------------|----|----|----|----|----|-----------|--|----|----|----|----|----|-----------|---|-------------|----|----|----|----|-----------|--|-------|--------|-------|-------|------|--|--|--|--|--|--|--|--|---|---|---|--------------|--------|------------|----------|-----------|------------|-------------|-----|----|--|
| 02 | JM | JM | | | 5/12/2014 | ISSUED FOR CLIENT REVIEW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 03 | JM | JM | TW | | 12/12/2014 | ISSUED FOR CLIENT REVIEW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 | JM | JM | SG | | 17/12/2014 | ISSUED FOR CLIENT REVIEW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | JM | JM | TW | SG | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 | JM | JM | SG | SG | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 07 | JM | JM | SG | SG | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| First Issue | JM | JM | CB | SG | 6/12/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drawn | Design | Check | Appd. | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project No.: | Stage: | Milestone: | Dwg No.: | Revision: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X13044.002 | 1, 2 & 3 DA | 602 | 07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



ISSUED FOR DEVELOPMENT APPLICATION

PLANNING CONSULTING ENGINEERING ARCHITECTURE LANDSCAPE DESIGN ENVIRONMENTAL ENGINEERING SURVEYING

| Revision | Drawn | Design | Check | Appd. | Date | Revision Details |
|-------------|-------|--------|-------|-------|------------|---|
| 02 | JM | JM | | | 5/12/2014 | ISSUED FOR CLIENT REVIEW |
| 03 | JM | JM | TW | | 12/12/2014 | ISSUED FOR CLIENT REVIEW |
| 04 | JM | JM | SG | | 17/12/2014 | ISSUED FOR CLIENT REVIEW |
| 05 | JM | JM | TW | SG | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| 06 | JM | JM | SG | SG | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL |
| 07 | JM | JM | SG | SG | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL |
| First Issue | JM | JM | CB | SG | 6/12/2013 | |



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY
CONTRACTOR PRIOR TO CONSTRUCTION. USE
WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

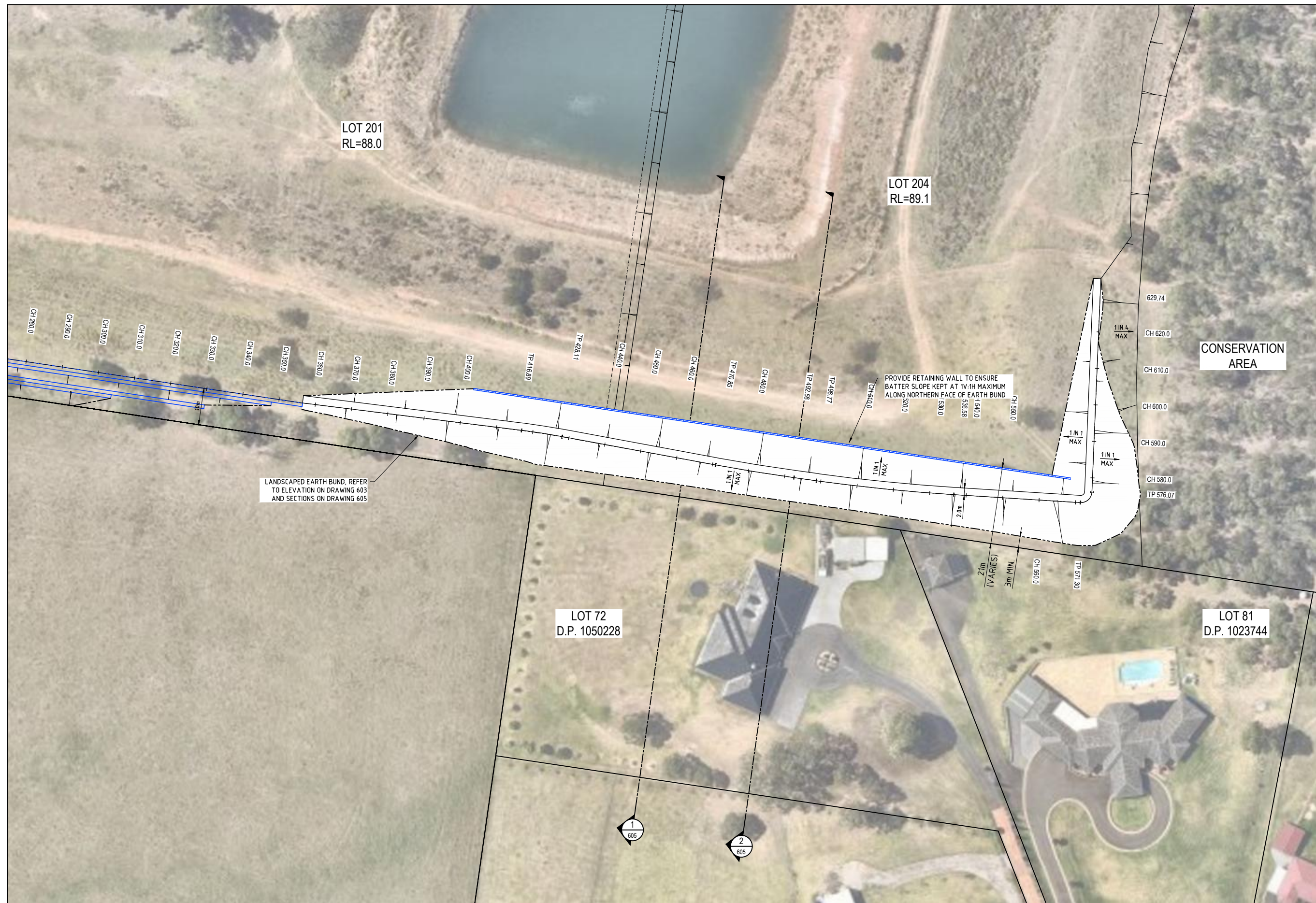


Authorised for Issue:
BY: STUART GREEN
FIEAust, CPEng,
Manager - Urban Development
SIGN:
DATE:

Client: **CSR LIMITED**
Project: **327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN**



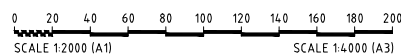
Drawing Title: **SITE SECTIONS
SHEET 02 OF 02**
Project No.: **X13044.002** Stage: **1, 2 & 3 DA** Milestone: **603** Dwg No.: **07** Revision: **07**



SOURCE OF AERIAL IMAGE: NEARMAP, DATED: 21/11/2014

ISSUED FOR DEVELOPMENT APPLICATION

| Revisions | | Issue | Drawn | Design | Check | Appd. | Date | Revision Details |
|-----------|----|-------|-------|--------|-------|-------|------------|---|
| 04 | JM | JM | SG | | | | 17/12/2014 | ISSUED FOR CLIENT REVIEW |
| 05 | JM | JM | TW | SG | | | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| 06 | JM | JM | SG | SG | | | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL |
| 07 | JM | JM | SG | SG | | | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL |



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY
CONTRACTOR PRIOR TO CONSTRUCTION. USE
WRITTEN DIMENSIONS ONLY, DO NOT SCALE.



© Brown Consulting Pty Ltd

Authorised for Issue:
BY: STUART GREEN
FIEAust. CPEng.
Manager - Urban Development
SIGN:
DATE: 6/3/15

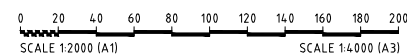
Client: CSR LIMITED
Project: 327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN



Drawing Title: EARTH BUND LAYOUT PLAN
Project No.: X13044.002
Stage: 1, 2 & 3 DA
Milestone: 604
Dwg No.: 07
Revision: 07




ISSUED FOR DEVELOPMENT APPLICATION

[illegible]

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY
CONTRACTOR PRIOR TO CONSTRUCTION. USE
WRITTEN DIMENSIONS ONLY, DO NOT SCALE.



© Brown Consulting Pty Ltd

Authorised for Issue:
BY: **STUART GREEN**
FIEAust. CPEng,
Manager - Urban Development
SIGN: 

DATE _____

| | |
|---------|--|
| Client: | |
|---------|--|

CSR LIMITED

Project

327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN



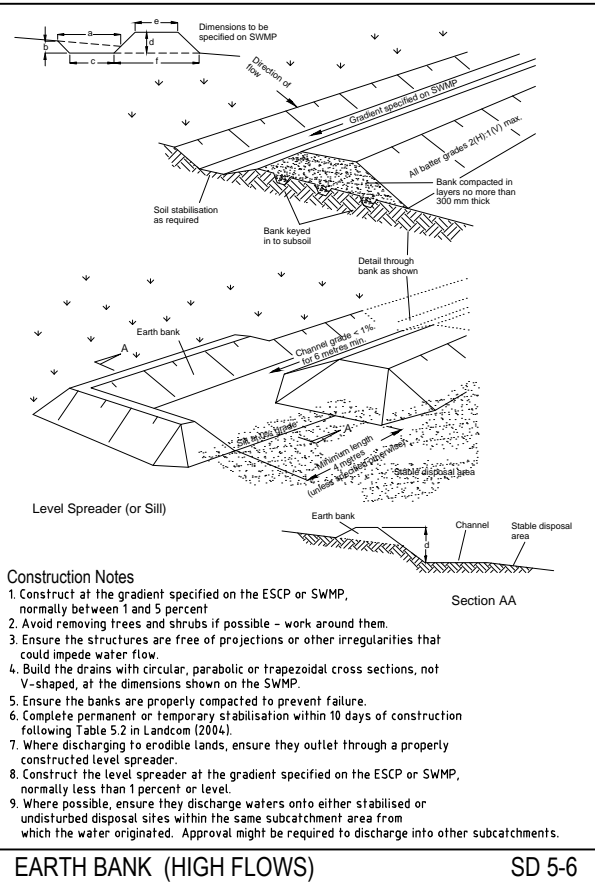
Drawing Title:

EARTH BUND SECTIONS

| | | | | |
|--------------|----------|------------|----------|-----------|
| Project No.: | Stage: | Milestone: | Dwg No.: | Revision: |
| X13044.002 | 1, 2 & 3 | DA | 605 | 07 |

SEDIMENT & EROSION CONTROL NOTES

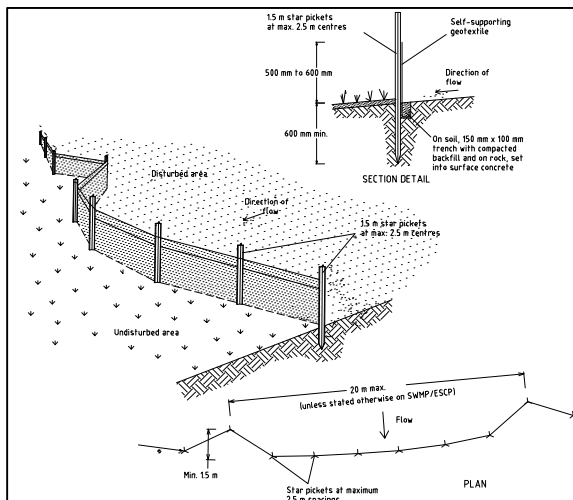
- THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE COMMENCEMENT OF ANY WORKS BEING CARRIED OUT. ALL SOIL AND EROSION MEASURES SHALL BE MAINTAINED AND KEPT IN PLACE FOR THE FULL DURATION OF THE WORKS AND SHALL ONLY BE REMOVED AT FINAL STABILISATION OF THE WORKS, WHERE IT IS NECESSARY TO UNDERTAKE STRIPPING IN ORDER TO CONSTRUCT A SEDIMENT CONTROL DEVICE ONLY SUFFICIENT GROUND SHALL BE STRIPPED TO ALLOW CONSTRUCTION.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AS INDICATED ON THESE DRAWINGS. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT.
- CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY NECESSARY CONTROL IS IN PLACE EVEN THOUGH SUCH CONTROL MAY NOT BE SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS AND ALL EMPLOYEES OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSTREAM AREAS
- APART FROM SEDIMENT BASINS, THE CONTRACTOR SHALL REGULARLY MAINTAIN SEDIMENT AND EROSION CONTROL STRUCTURES AND DESILT SUCH STRUCTURES PRIOR TO THE REDUCTION IN CAPACITY OF 30% DUE TO ACCUMULATED SEDIMENT. THE SEDIMENT SHALL BE DISPOSED OF ON SITE IN A MANNER APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL TEMPORARILY REHABILITATE WITHIN TEN (10) DAYS ANY DISTURBED AREAS PROVIDING A MINIMUM 60% COVER. FINAL REHABILITATION IS TO BE PROVIDED WITHIN A FURTHER 60 DAYS WITH A MINIMUM 70% COVER.
- THE CONTRACTOR SHALL PROVIDE WATERING OF THE VEGETATED BATTERS FOR MAINTENANCE PERIOD. PLANT, MACHINERY AND VEHICLES SHALL NOT BE DRIVEN OVER GRASSED AREAS UNLESS ON AN APPROVED HAULAGE ROUTE.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS QUICKLY AS POSSIBLE TO MINIMISE RISK OF EROSION.
- SITE ACCESS SHALL BE RESTRICTED TO THE NOMINATED POINTS. THE CONTRACTOR SHALL PROVIDE STABILISED SITE ACCESS.
- DUST AND SITE DISTURBANCE MUST BE KEPT TO A MINIMUM. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS MUST BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO REDUCE WIND EROSION. ERECT BARRIER FENCING TO MINIMISE LAND DISTURBANCE BY PREVENTING VEHICULAR AND PEDESTRIAN ACCESS TO AREAS BEING REHABILITATED AND LANDS THAT DO NOT NEED TO BE DISTURBED BY THIS PROJECT.
- STOCKPILE TOPSOILS, SUBSOILS AND OTHER MATERIALS SEPARATELY.
- TOPSOIL SHALL BE STORED IN LOW MOUNDS NO MORE THAN 2 METRES HIGH AND RE-USED WITHIN TWO MONTHS TO MAINTAIN ACTIVE POPULATIONS OF BENEFICIAL SOIL MICROBES AND SEED.
- PLACE ALL STOCKPILES AT LEAST FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS, ESPECIALLY EARTH BANKS AND ROADS. IF NECESSARY, EARTH BANKS OR DRAINS WILL BE CONSTRUCTED TO DIVERT LOCALISED RUN-ON.
- TURN TOPSOIL STOCKPILES OVER TO AERATE THEM AT MONTHLY INTERVALS. ENSURE VEGETATION IS NOT INCORPORATED INTO THE SOIL.



EARTH BANK (HIGH FLOWS)

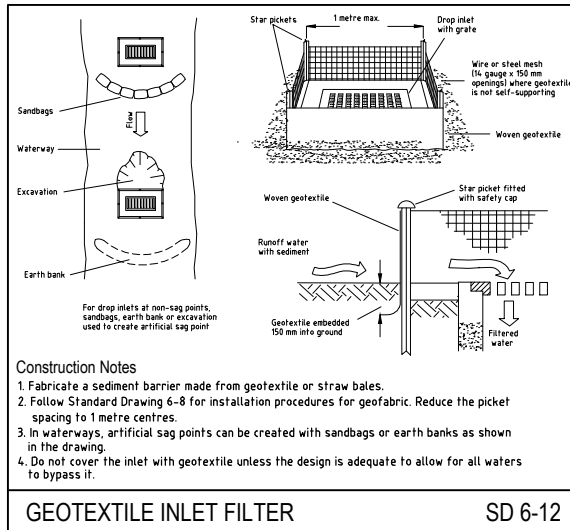
SD 5-6

- AVOID REVERSING THE SOIL PROFILE MATERIALS DURING FILL OPERATIONS – REPLACE DISTURBED SOILS IN THEIR ORIGINAL ORDER.
- ON COMPLETION OF MAJOR EARTHWORKS AND BEFORE ADDING TOPSOIL, LEAVE DISTURBED LANDS WITH A LOOSE SURFACE. ALTERNATELY, DISTURBED AREAS PREVIOUSLY COMPACTED BY CONSTRUCTION WORKS WILL BE RIPPED TO MORE THAN 200-MM ALONG THE CONTOUR BEFORE APPLYING TOPSOIL.
- PROVIDING MATERIALS ARE AVAILABLE, SPREAD TOPSOIL TO A MINIMUM DEPTH OF 75mm IN REVEGETATION AREAS ON SLOPES OF 4(H):1(V) OR LESS AND TO A DEPTH OF 40 TO 60mm IN REVEGETATION AREAS STEEPER THAN 4:1.
- LEAVE TOPSOIL IN A SCARIFIED OR ROUGH CONDITION ONCE REPLACED TO HELP MOISTURE INFILTRATION AND REDUCE SOIL EROSION.
- ENSURE SOIL IS THOROUGHLY SOAKED TO A DEPTH OF 75mm (RAIN OR IRRIGATION) IMMEDIATELY BEFORE PLANTING.
- HANDLE TOPSOIL ONLY WHEN IT IS MOIST (NOT WET OR DRY) TO AVOID DECLINE OF SOIL STRUCTURE
- THE CONTRACTOR SHALL MAINTAIN A LOG BOOK DETAILING:
 - RECORDS OF ALL RAINFALL
 - CONDITION OF SOIL AND WATER MANAGEMENT STRUCTURES
 - ANY APPLICATION OF FLOCCULATING AGENTS TO SEDIMENT BASIN
 - VOLUMES OF ALL WATER DISCHARGED FROM SEDIMENT BASINS
 - ANY ADDITIONAL REMEDIAL WORKS REQUIRED.
- THE LOG BOOK SHALL BE MAINTAINED ON A WEEKLY BASIS AND BE MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. THE ORIGINAL LOG BOOK SHALL BE ISSUED TO THE PROJECT MANAGER AT THE COMPLETION OF WORKS
- ALL ROAD EMBANKMENTS TO BE STABILISED AS PER LANDSCAPE ARCHITECTS DETAILS.
- A SELF AUDITING PROGRAM SHOULD BE ESTABLISHED BASED ON A CHECK SHEET DEVELOPED FOR THE SITE. A SITE INSPECTION USING THE CHECK SHEET SHOULD BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE AND IMMEDIATELY FOLLOWING RAINFALL EVENTS THAT CAUSE RUNOFF.
- UNDERTAKE THE SELF AUDIT BY:
 - WALKING AROUND THE SITE SYSTEMATICALLY (E.G. CLOCKWISE)
 - RECORDING THE CONDITION OF EVERY BMP EMPLOYED
 - RECORDING MAINTENANCE REQUIREMENTS (IF ANY) FOR EACH BMP
 - RECORDING THE SITE WHERE SEDIMENT IS DISPOSED
 - FORWARDING A SIGNED DUPLICATE OF THE COMPLETED CHECK SHEET TO THE PROJECT MANAGER/DEVELOPER/SITE OPERATOR FOR THEIR INFORMATION
- IN PARTICULAR, INSPECT:
 - LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE
 - ALL INSTALLED EROSION AND SEDIMENT CONTROL MEASURES, ENSURING THEY ARE OPERATING CORRECTLY
 - AREAS THAT MIGHT SHOW WHETHER SEDIMENT OR OTHER POLLUTANTS ARE LEAVING THE SITE OR HAVE POTENTIAL TO DO SO
 - ALL DISCHARGE POINTS, TO ASSESS WHETHER THE EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO THE RECEIVING WATERS
- A SITE INSPECTION USING THE CHECK SHEET WILL BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE, AND IMMEDIATELY FOLLOWING RAINFALL EVENTS GREATER THAN 5mm IN 24 HOURS.



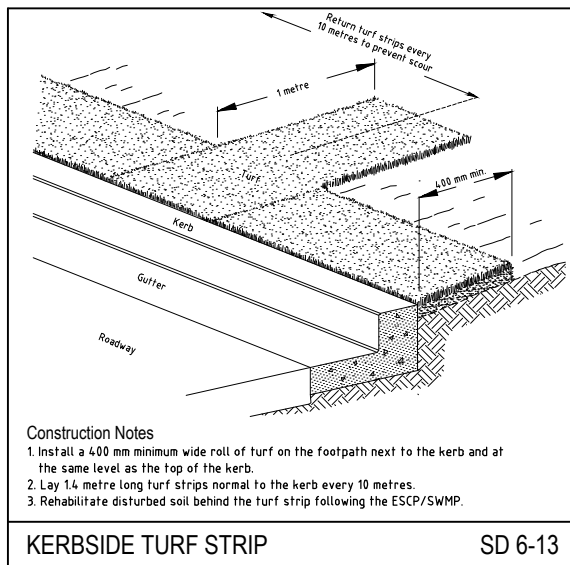
SEDIMENT FENCE

SD 6-8



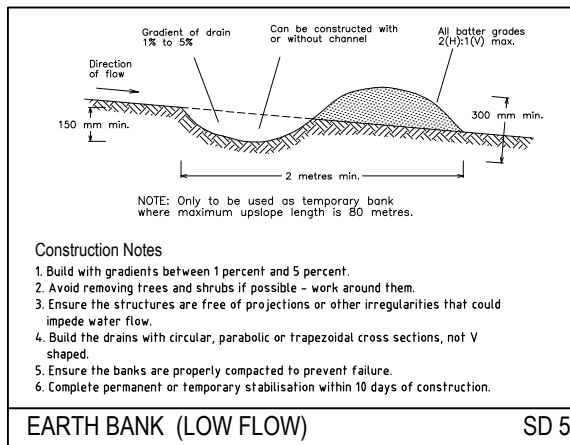
GEOTEXTILE INLET FILTER

SD 6-12



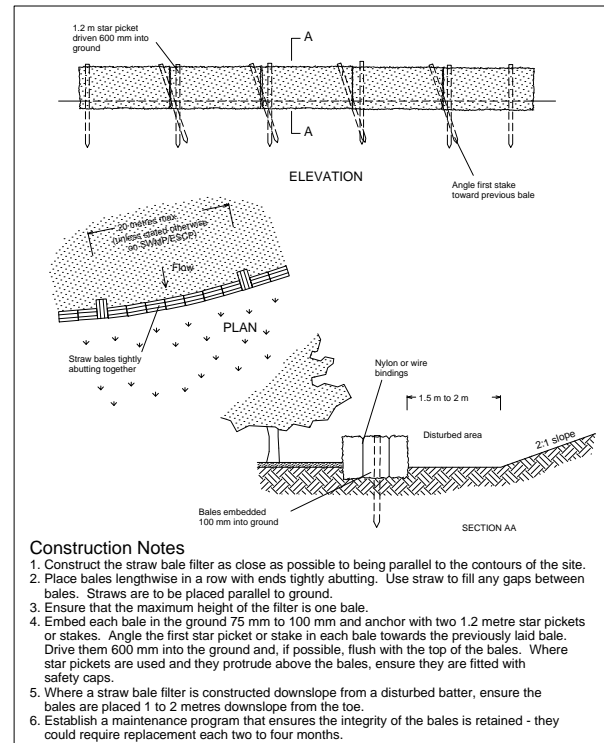
KERBSIDE TURF STRIP

SD 6-13



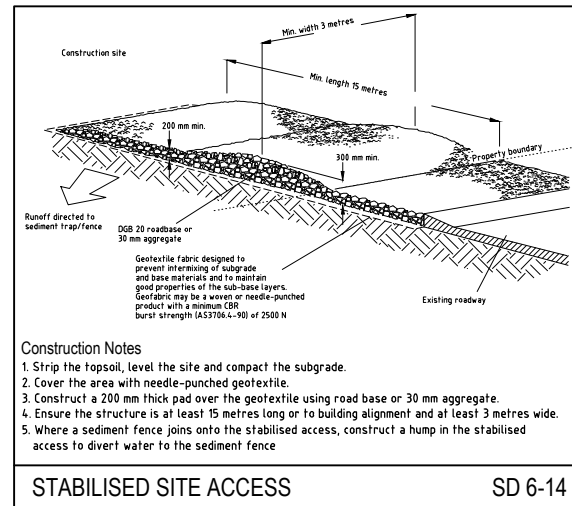
EARTH BANK (LOW FLOW)

SD 5-5



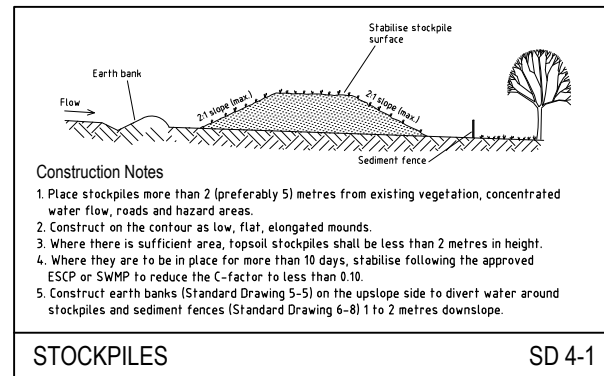
STRAW BALE FILTER

SD 6-7



STABILISED SITE ACCESS

SD 6-14



STOCKPILES

SD 4-1

ISSUED FOR DEVELOPMENT APPLICATION

| | | | | | | |
|-------------|--------|-------|-------|------|------------|---|
| 02 | JM | JM | | | 5/12/2014 | ISSUED FOR CLIENT REVIEW |
| 03 | JM | JM | TW | | 12/12/2014 | ISSUED FOR CLIENT REVIEW |
| 04 | JM | JM | SG | | 17/12/2014 | ISSUED FOR CLIENT REVIEW |
| 05 | JM | JM | TW | SG | 18/12/2014 | ISSUED FOR DEVELOPMENT APPLICATION |
| 06 | JM | JM | SG | SG | 4/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL |
| 07 | JM | JM | SG | SG | 6/03/2015 | AMENDED SOUTHERN BOUNDARY RETAINING WALL DETAIL |
| First Issue | JM | JM | CB | SG | 6/12/2013 | |
| Drawn | Design | Check | Appd. | Date | | Revision Details |

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY
SUPERINTENDENT PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT
SCALE.



© Brown Consulting Pty Ltd



Approval:
BY: STUART GREEN
FIEAust. CPEng.
Manager - Urban Development

SIGN:

DATE:

Client:

CSR LIMITED

Project:

327-335 BURLEY ROAD, HORSLEY PARK
ROAD & DRAINAGE DESIGN



Drawing Title:

SEDIMENT & EROSION CONTROL
NOTES & DETAILS

Project No.:

X13044.002

Stage:

1, 2 & 3 DA

Milestone:

702

Dwg No.:

07

Revision: