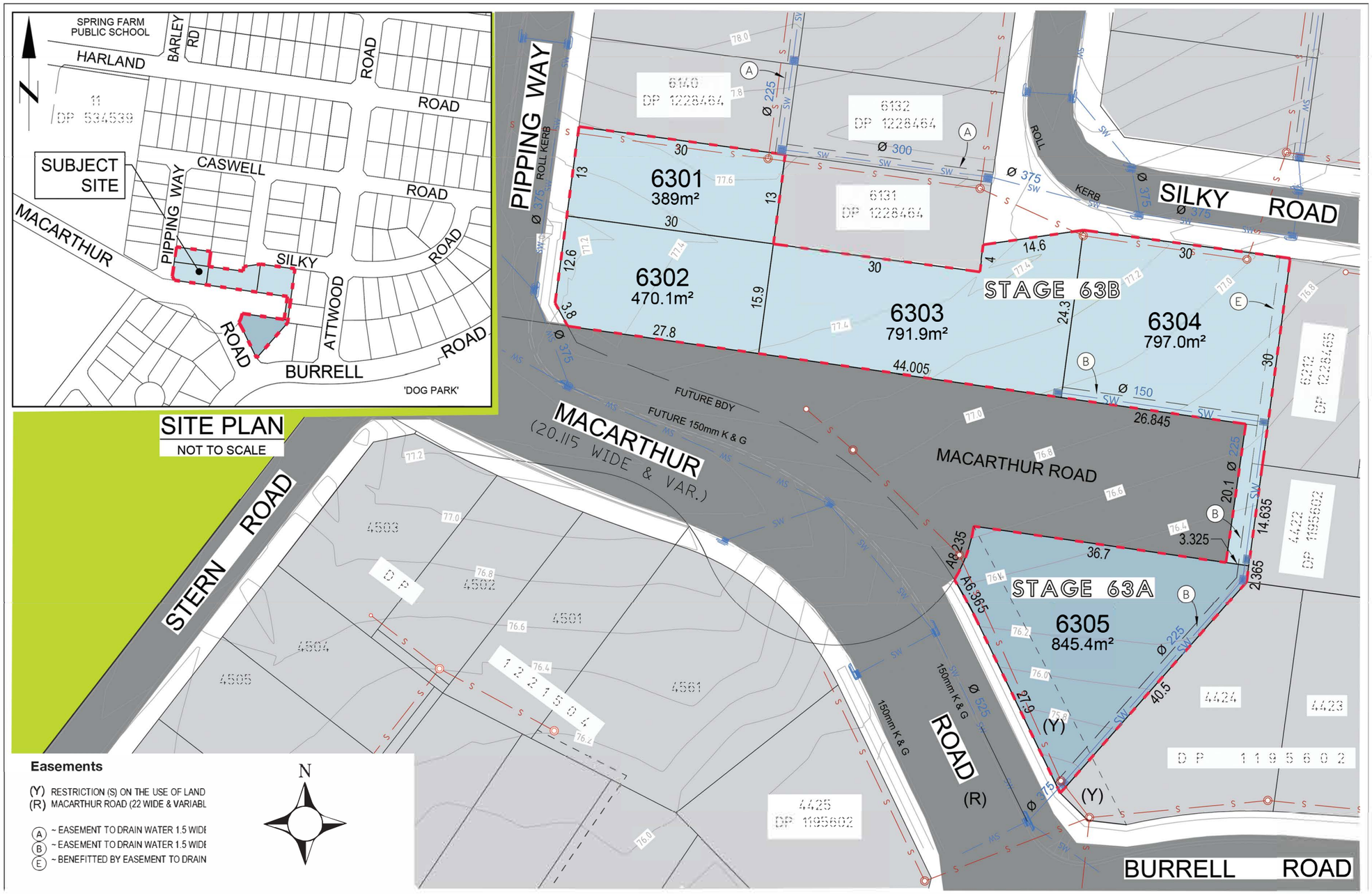
# Riverside Stage 63

cornish group

SPRING FARM
RIVERSIDE
Prestige. Picturesque. Perfect.




**Key**

- Riverside Stage 63A
- Riverside Stage 63B
- Existing Subdivision
- Denotes Subject Boundary
- Denotes Proposed Lot Boundary
- Denotes Cadastral Boundary
- Denotes Easement
- Denotes Sewer Access Chamber
- Denotes Approximate Location Of Sewer & Stormwater Pit
- Denotes Stormwater Pipe Diameter

0 5 10 15
SCALE 1:500 (A3)
ORIGINAL SHEET SIZE A3

**Disclaimer:** This is a sales plan only. The dimensions, areas, easements and other details shown on this plan are approximate only and are subject to field survey and the final approvals of Camden Council and servicing authorities. Purchasers should refer to the registered plan of subdivision for final dimensions and other details. Purchasers should examine the full range of easements & restrictions set out in the 88B instrument accompanying the linen plan. Lots may be subject to future services and streen landscaping design.

# The Masterplan


SPRING FARM
RIVERSIDE
Prestige. Picturesque. Perfect.

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Proposed Masterplan subject to final approval


1. VIEW CORRIDOR MAINTAINED FROM ROAD WITH CLEAN TRUNKED HIGH CANOPY TREES
2. BOARDWALK THROUGH RIPARIAN VEGETATION
3. ACCESS ACROSS LAKE. BRIDGE ACTS AS WATER CONTROL TO UPPER AREA
4. GRASS PLANTED OVERLAND FLOW PATHS
5. BOARDWALK THROUGH OPEN TREES
6. PICNIC AREA TERRACED TO CREATE LOOKOUT
7. DECK STAGE ON WATERFRONT
8. PATH THROUGH OPEN GRASSLANDS - LENGTH OF PATH TO INCLUDE INTERPRETIVE AREAS
9. OPEN PARK / PICNIC AREA
10. PLAYGROUND AREA / PICNIC SHELTERS
11. MAJOR BBQ / PICNIC FACILITIES ON WATERFRONT DECK
12. PUMP STATION SCREENED WITH TREES
13. SCULPTURAL ELEMENTS TERMINATE VIEWS FROM THE STREET
14. BRIDGE ACROSS LAKE WALL ACTS AS LOOKOUT
15. SPILLWAY TO RIVER IN ROCK LINED SWALE
16. EMBANKMENT PLANTING WITH ROCKS FORMING LAKE BANK
17. INFORMAL BUSH & RIVERINE PLANTING IN OPEN SPACE
18. AMENITIES BLOCK FOR SPORTS FIELDS
19. SPORTS FIELDS
20. PARKING AREA FOR FIELDS - 100 CARS
21. DOG CAFE & OFF-LEASH AREA IN PARKLAND
22. TERRACED GRASSED & PAVED WATERFRONT PLAZA
23. EMBANKMENT PLANTING & BUSH ROCK BOULDERS
24. RAINGARDENS / DETENTION BASIN
25. BOARDWALK OVER RAINGARDENS
26. LAKE
27. WILDLIFE CORRIDOR LINKING CREEK TO RIVER
28. INFORMAL WALKING TRACK TO NEPEAN RIVER

context
52-58 William Street East Sydney NSW 2011
PO Box A866 Sydney South NSW 1235
T. 8244 8900 F. 8244 8988 E. context@context.net.au

Scale: 1:4000 @ A3
Scale: 1:2000 @ A1

Dwg Ref No: LSK 10609-001-B
Date: September, 2010
Client: Cornish Group

# Landscape Concept Plan
***Spring Farm***

# SPRING FARM STAGE 63B
# PROPOSED SUBDIVISION OF LOT 6306 DP...
# (BEING SUB OF LOT 6213 IN DP1228465)
## ISSUED FOR CONSTRUCTION CERTIFICATION

| SCHEDULE OF DRAWINGS | | |
|---|---|---|
| DRAWING | TITLE | REVISION |
| C001 | COVER SHEET - SITE LOCALITY AND SCHEDULE OF DRAWINGS | 2 |
| C002 | GENERAL NOTES & LEGEND | 2 |
| C040 | EXISTING SITE LAYOUT PLAN | 2 |
| C050 | STAGING PLAN | 2 |
| C200 | ROAD LAYOUT PLAN | 2 |
| C600 | PRE & POST DEVELOPMENT CATCHMENT PLAN | 2 |
| C610 | STORMWATER DRAINAGE LAYOUT PLAN | 2 |
| C650 | STORMWATER DRAINAGE LONGITUDINAL SECTION AND PIT SCHEDULE | 2 |
| C680 | STORMWATER DRAINAGE CALCULATION SHEET | 2 |
| C900 | EROSION AND SEDIMENT CONTROL PLAN | 2 |
| C950 | EROSION AND SEDIMENT CONTROL FIGURES | 2 |


LOCALITY PLAN

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**FOR CONSTRUCTION**

| DATE | REV | DESCRIPTION | REC | APP |
|---|---|---|---|---|
| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |

REVISIONS


Premise
ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au


DESIGNED: N. TRANG
CHECKED: R. BARGER
PROJECT MANAGER: M. ZESCHKE
ENGINEERING CERTIFICATION

SCALE
0 20 40 60m
SCALE 1:1000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: CORNISH GROUP
PROJECT: PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B
LOCATION: MACARTHUR ROAD, SPRING FARM
SHEET TITLE: COVER SHEET - SITE LOCALITY AND SCHEDULE OF DRAWINGS

JOB CODE: 316019-09
SHEET NUMBER: C001
REV: 2

## GENERAL NOTES:

1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CAMDEN CITY COUNCIL ENGINEERING DESIGN AND ENGINEERING CONSTRUCTION SPECIFICATIONS AND TO THE REQUIREMENTS OF THE CERTIFYING AUTHORITY.
2. ALL BUILDING WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL CONSTRUCTION CODE.
3. INSPECTIONS BY CERTIFYING AUTHORITY ARE REQUIRED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO CONTINUANCE OF ANY FUTURE WORK:
   A. FOLLOWING INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES/MEASURES.
   B. PRIOR TO BACKFILLING PIPELINES, SUBSOIL DRAINS AND DAMS.
   C. PRIOR TO CASTING OF PITS AND OTHER CONCRETE STRUCTURES, INCLUDING KERB AND GUTTER BUT FOLLOWING PLACEMENT OF FOOTINGS, FORMWORK, AND REINFORCEMENT.
   D. PRIOR TO PLACEMENT OF SUB BASE AND ALL SUBSEQUENT PAVEMENT LAYERS, A PROOF ROLLER TEST OF EACH PAVEMENT LAYER IS REQUIRED.
   E. FORMWORK PRIOR TO POURING CONCRETE IN PARKING AREA FOR FOOTPATH CROSSING AND OTHER ASSOCIATED WORK.
   F. PRIOR TO BACKFILLING PUBLIC UTILITY CROSSINGS IN ROAD RESERVES.
   G. FINAL INSPECTIONS AFTER ALL WORKS ARE COMPLETED AND WORKS AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL.
4. NO TREES ARE TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCIL'S LANDSCAPE COMPLIANCE OFFICER OR AS AUTHORISED BY DEVELOPMENT CONSENT.
5. MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
6. NO WORK IS TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.
7. VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
8. ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.

## SERVICES & UTILITIES NOTES

1. ALL SERVICES SHOWN ON THESE PLANS HAVE BEEN PREPARED FROM A COMBINATION OF FIELD SURVEY & EXISTING DATA COLLECTED FROM DBYD ENQUIRIES AUTHORITIES MUST BE CONTACTED & SERVICE LOCATIONS CHECKED PRIOR TO WORK COMMENCING. CONTRACTOR IS TO ADEQUATELY LOCATE & INFORM THEMSELVES AS TO THE DEPTH AND LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ANY WORK TO EXISTING SERVICES THAT REQUIRE RELOCATION BY AUTHORITIES SHALL BE CARRIED OUT BY THE RELEVANT AUTHORITY BUT WITHIN THE TERMS OF THE CONTRACT AND SHALL BE CO-ORDINATED BY THE CONTRACTOR.
3. SERVICE CONDUITS TO BE PLACED AS DIRECTED BY UTILITY AUTHORITIES.
4. PUBLIC UTILITY SERVICES ARE TO BE ADJUSTED AS NECESSARY.
5. ALL PROPOSED SERVICE CROSSINGS TO BE THRUST BORED UNDER EXISTING ROAD PAVEMENTS. CONTRACTOR TO REPAIR ANY DAMAGE TO EXISTING SURFACE.
6. CONTRACTOR TO INSTALL ELECTRICAL, TELCO AND GAS DUCT CROSSINGS TO RELEVANT AUTHORITY STANDARDS. CONTRACTOR TO SURVEY & CERTIFY COVER TO EACH ROAD DUCT CROSSING.

DIAL 1100
BEFORE YOU DIG

## STORMWATER:

1. ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED, U.N.O.
2. ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
3. DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.
4. ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.
5. ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2-METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
6. CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPA AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
7. ALL INTER-ALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
8. ALL INTER-ALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS MUST BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
9. INTER-ALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTER-ALLOTMENT DRAINAGE LINES.
10. 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.
11. ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP AND PMF WHERE APPLICABLE.
12. ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
13. CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY THE APPROVED PLANS OR THE PRINCIPAL CERTIFYING AUTHORITY.
14. SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.

## ROADWORKS:

1. SUBGRADES AND SUB BASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
2. SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE.
3. 150 x 50 H.D. GALVANISED STEEL KERB OUTLETS TO BE PLACED IN ALL KERB TYPES ON LOW SIDE OF LOTS. PROVIDE SUITABLE ADAPTOR TO ALLOW CONNECTION OF STORMWATER PIPE.
4. LIPLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS AND WHERE REQUIRED BY COUNCIL.
5. SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING INTEGRAL ENERGY, TELSTRA AND SYDNEY WATER
6. PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS NOT TO DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750mm.
7. CONCRETE FOOTPATH CONSTRUCTION IS TO BE BONDED WITH COUNCIL PENDING COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.
8. ALL TEMPORARY ROADS MUST BE TEMPORARILY SEALED WITH A SINGLE COAT FLUSH SEAL.
9. SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE'. RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1906 'RETRO-REFLECTIVE MATERIALS AND DEVICES FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE PLAN APPROVED BY THE LOCAL TRAFFIC COMMITTEE.
10. ALL LOT AND HOUSE NUMBERS MUST BE STENCILLED ON KERB FACE.
11. STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE CONTRACTOR.

## EARTHWORKS

1. EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
2. COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 95% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS.1289.5.1.1. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. WHERE IT IS PROPOSED TO USE TEST METHOD AS1289.5.8.1 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.
3. THE SUITABLE QUALIFIED GEOTECHNICAL ENGINEER, SHALL HAVE A LEVEL 1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS', AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.
4. IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL. TEMPORARY BATTERS TO BE STABILISED TO COUNCIL ENGINEERS SATISFACTION.
5. ALL EXPOSED AREAS TO BE COATED BY COUNCIL APPROVED SUPERSKIN OR APPROVED EQUIVALENT.
6. PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL ON FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 14 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
7. THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PRODUCED BY LANDCOM.
8. A MINIMUM 1m WIDE, CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS & OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED DURING THE CONSTRUCTION MAINTENANCE PERIOD.

## SEDIMENT & EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO SITE DISTURBANCE OF THE RELATED CATCHMENT AREA TO *LANDCOM* (BLUE BOOK) "MANAGING URBAN STORMWATER : SOILS AND CONSTRUCTION VOL.1, 4TH EDITION MARCH 2004.
2. ALL EROSION AND SEDIMENT CONTROL STRUCTURES MUST BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO THE SOIL STOCKPILE SITE.
3. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY, AND TO THE SATISFACTION OF COUNCIL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION. MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL IS TO BE UNDERTAKEN ON A REGULAR BASIS & AS PER COUNCIL'S DIRECTION AND IN ACCORDANCE WITH COUNCIL CONSTRUCTION SPECIFICATIONS.
4. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL UNTIL FINAL COMPLETION OF WORKS.
5. REVEGETATION AREAS WILL BE REGULARLY MAINTAINED UNTIL EFFECTIVE COVER HAS PROPERLY ESTABLISHED. THIS WILL INCLUDE REGULAR WATERING, FERTILISING, WEED CONTROL AND RE-SEEDING/SPRIGGING AS NECESSARY.
6. DISTURBED AREAS ARE TO BE REVEGETATED WITHIN 7 DAYS OF THE COMPLETION OF EARTHWORKS IN ACCORDANCE WITH CAMDEN CITY COUNCIL.

## WASTE CONTROL:

1. SITE CONTRACTOR TO BE RESPONSIBLE FOR WASTE DISPOSAL.
2. ALL BUILDING PRODUCTS AND CLEARED VEGETATION TO BE REMOVED OFF SITE IN AN APPROVED MANNER TO A LICENSED LAND FILL.
3. ALL HAZARDOUS AND ENVIRONMENTALLY NOXIOUS SPILLS ARE TO BE CLEARED UP IMMEDIATELY IN ACCORDANCE WITH COUNCIL GUIDELINES.

## KERBING NOTES:

4. ALL CONCRETE KERBS TO HAVE A MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH F'c 25MPa (UNO).
5. ALL DISH DRAINS, ETC TO BE CONSTRUCTED ON 75mm MINIMUM BASE COURSE. (UNO ON THE DRAWING.)
6. KERB EXPANSION JOINTS SHALL BE FORMED FROM 10mm ABLEFLEX (OR APPROVED EQUIVALENT ) FOR THE FULL DEPTH OF THE SECTION.
7. EXPANSION JOINTS SHALL BE LOCATED AT DRAINAGE PITS.
8. TOOLED JOINTS SHALL BE 3mm WIDE AND LOCATED AT MAXIMUM 3m SPACING.
9. INTEGRAL KERB JOINTS SHALL MATCH THE LOCATION OF THE PAVEMENT JOINTING.

## LEGEND

| DESCRIPTIONS | EXISTING | PROPOSED | FUTURE |
|---|---|---|---|
| 150mm KERB & GUTTER | EXIST. K&G | K&G | FUT. K ERB |
| ROLL TYPE KERB | EXIST. RK | RK | FUT. K ERB |
| EDGE STRIP | EXIST. ES | ES | FUT. ES |
| KERB ONLY | EXIST. KERB | KO | FUT. K ERB |
| MOUNTABLE SF TYPE KERB | EXIST. SF | SF TYPE | FUT. K ERB |
| DISH CROSSING | EXIST. DC | DC | FUT. DC |
| VEHICULAR CROSSING | VC | VC | FUT. VC |
| KERB / PEDESTRIAN RAMP | | PR | |
| EDGE OF BITUMEN | E.O.B. | | |
| ROAD PAVEMENT | EXIST. PAVEMENT | | FUT. PAVEMENT |
| PATH PAVING | EXIST. PATH | 1.2m PATH PAVING | FUT. PATH |
| BATTERS /TOP & BOTTOM OF BANKS | T.O.B. B.O.B. | | |
| SPOT LEVEL | | × RL28.5 | |
| CONTOURS | 100.0 | 100.0 | 100.0 |
| SITE REGRADING AREA | | CUT FILL | |
| RETAINING WALL | EXIST. RW | RW1 | FUT. RW |
| ROCK GABION WALL | EXIST. RW | ROCK WALL | FUT. RW |
| STORMWATER DRAINAGE PIPE | SW | DN225 SW | FUT. PIPE |
| STORMWATER DRAINAGE PIT | | | |
| DRAINAGE LINES & PIT NUMBERS | | 1/1 | |
| CONCRETE HEADWALL | SW | SW | |
| SUB-SOIL & FLUSH POINTS | SS SS | FP SS | SS SS |
| KERB OUTLETS | KO | KO | |
| PIPE CONNECTIONS/JUNCTIONS | SW | SW | |
| ACO GRATED DRAIN OR SIMILAR | | | |
| LIMIT OF WORKS | | L.O.W. | |
| LIMIT OF STAGE | | | |
| LOT NUMBERS | 10 DP1199011 | 10 | |
| BOUNDARY | | | |
| FENCE | / | / | / |
| BUILDING / STRUCTURES | BLD | 10 | |
| TREE | | | |
| SEWER & MANHOLES | MH S | S | S |
| WATER / HYDRANTS & STOP VALVES | SV W W | W W | W W |
| ELECTRICITY / POWER & LIGHT POLES | PP E LP | E | E |
| GAS / GAS METERS | G G | G G | G G |
| TELSTRA / FIBRE OPTIC / NBN | T TFO TW T TFO TW | T T TFO TW TW | T T TFO TW TW |

## FOR CONSTRUCTION

| DATE | REV | DESCRIPTION | REC | APP |
|---|---|---|---|---|
| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |

REVISIONS

Premise
ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED N. TRANG
CHECKED R. BARGER
PROJECT MANAGER M. ZESCHKE
ENGINEERING CERTIFICATION

SCALE
ORIGINAL SHEET SIZE A1

CLIENT CORNISH GROUP
PROJECT PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B
LOCATION MACARTHUR ROAD, SPRING FARM
SHEET TITLE GENERAL NOTES & LEGEND

JOB CODE 316019-09
SHEET NUMBER C002
REV 2

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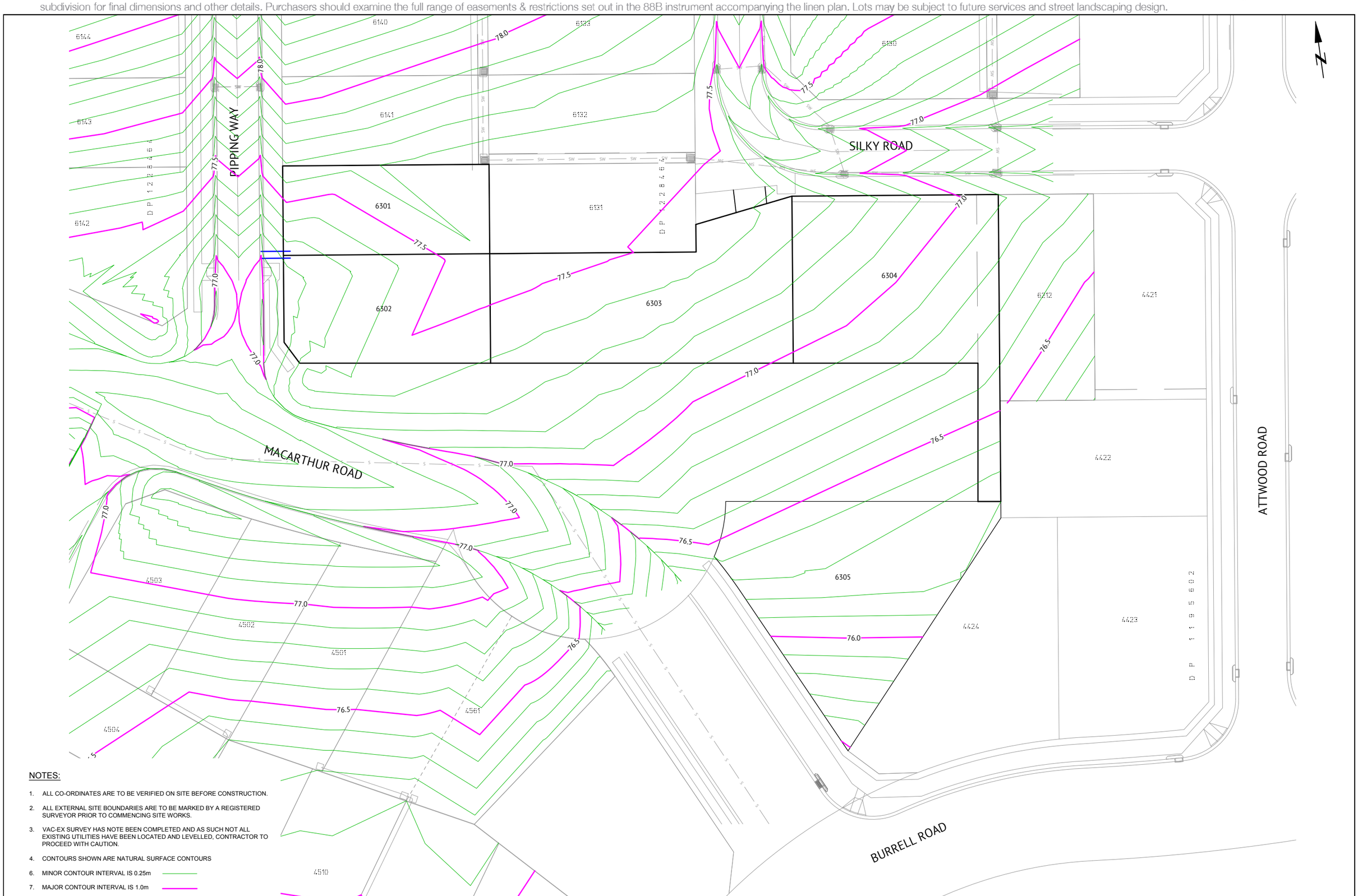


NOTES:

1. ALL CO-ORDINATES ARE TO BE VERIFIED ON SITE BEFORE CONSTRUCTION.
2. ALL EXTERNAL SITE BOUNDARIES ARE TO BE MARKED BY A REGISTERED SURVEYOR PRIOR TO COMMENCING SITE WORKS.
3. VAC-EX SURVEY HAS NOTE BEEN COMPLETED AND AS SUCH NOT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND LEVELLED, CONTRACTOR TO PROCEED WITH CAUTION.
4. CONTOURS SHOWN ARE NATURAL SURFACE CONTOURS
6. MINOR CONTOUR INTERVAL IS 0.25m
7. MAJOR CONTOUR INTERVAL IS 1.0m

**FOR CONSTRUCTION**

| DATE | REV | DESCRIPTION | REC | APP |
|---|---|---|---|---|
| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |

REVISIONS


Premise
ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au


DESIGNED: N. TRANG
CHECKED: R. BARGER
PROJECT MANAGER: M. ZESCHKE
ENGINEERING CERTIFICATION:

SCALE: 0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: CORNISH GROUP
PROJECT: PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B
LOCATION: MACARTHUR ROAD, SPRING FARM
SHEET TITLE: EXISTING SITE LAYOUT PLAN

JOB CODE: 316019-09
SHEET NUMBER: C040
REV: 2

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| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |

REVISIONS


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351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
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DESIGNED: N. TRANG
CHECKED: R. BARGER
PROJECT MANAGER: M. ZESCHKE
ENGINEERING CERTIFICATION

SCALE
0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: CORNISH GROUP
PROJECT: PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B
LOCATION: MACARTHUR ROAD, SPRING FARM
SHEET TITLE: STAGING PLAN

JOB CODE: 316019-09
SHEET NUMBER: C050
REV: 2

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B85 VEHICLE (REALISTIC MIN RADIUS) (2004)

| | |
|---|---|
| OVERALL LENGTH | 4.910m |
| OVERALL WIDTH | 1.870m |
| OVERALL BODY HEIGHT | 1.421m |
| MIN BODY GROUND CLEARANCE | 0.159m |
| TRACK WIDTH | 1.770m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 5.750m |

## VEHICLE PROFILE

N.T.S.

## FOR CONSTRUCTION

| DATE | REV | DESCRIPTION | REC | APP |
|---|---|---|---|---|
| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |

REVISIONS

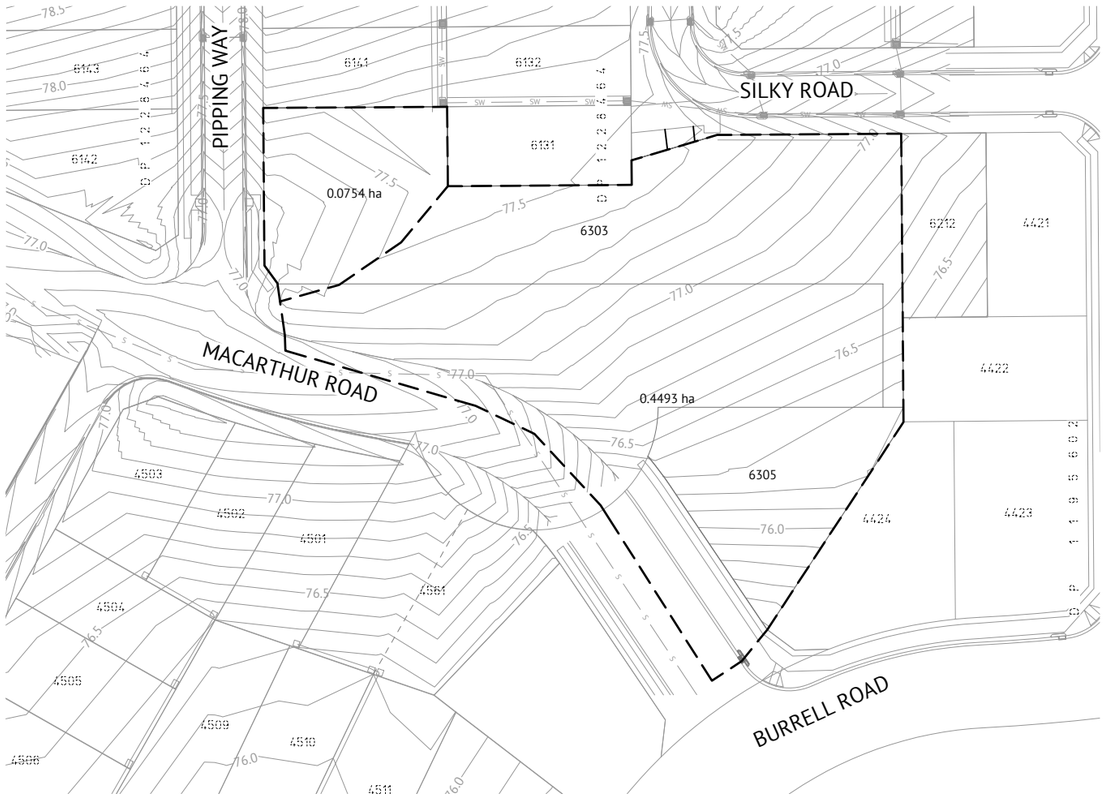

Premise
ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au


DESIGNED: N. TRANG
CHECKED: R. BARGER
PROJECT MANAGER: M. ZESCHKE
ENGINEERING CERTIFICATION

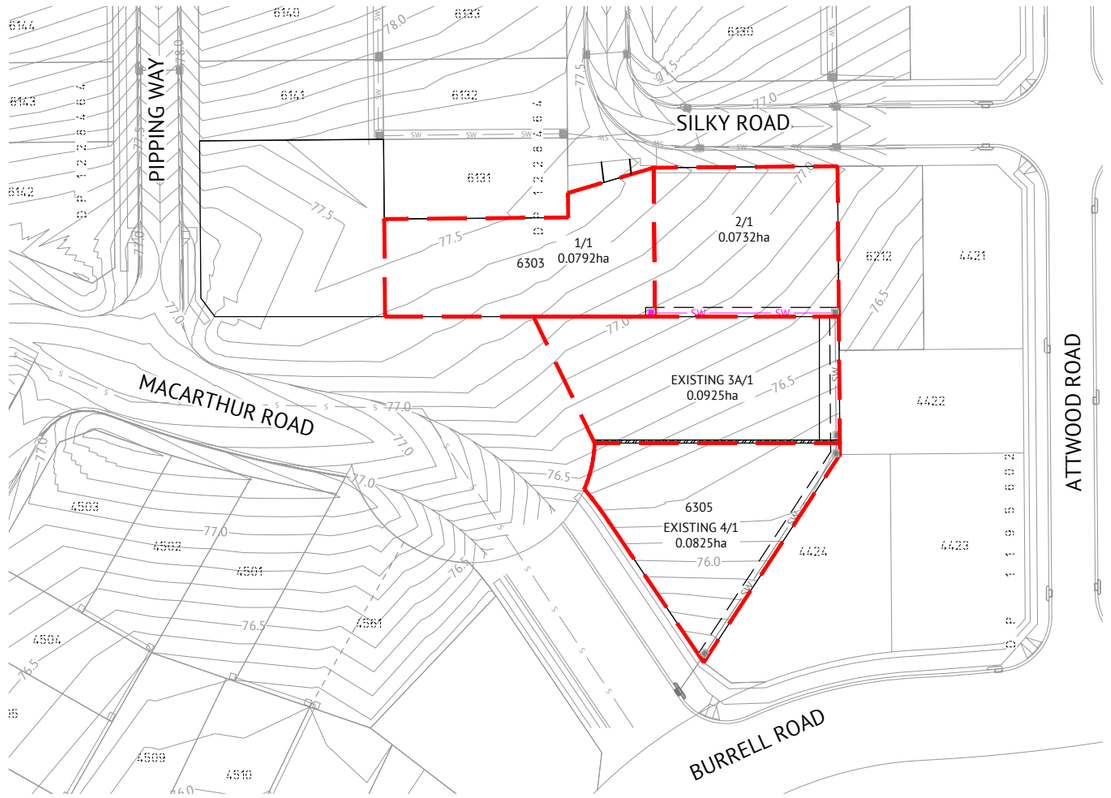
SCALE
0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: CORNISH GROUP
PROJECT: PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B
LOCATION: MACARTHUR ROAD, SPRING FARM
SHEET TITLE: ROAD LAYOUT PLAN

JOB CODE: 316019-09
SHEET NUMBER: C200
REV: 2




PRE-DEVELOPED CATCHMENT PLAN
SCALE 1:500




POSTED-DEVELOPED CATCHMENT PLAN
SCALE 1:500

## FOR CONSTRUCTION

| DATE | REV | DESCRIPTION | REC | APP |
|---|---|---|---|---|
| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |

REVISIONS

Premise
ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

DESIGNED: N. TRANG
CHECKED: R. BARGER
PROJECT MANAGER: M. ZESCHKE
ENGINEERING CERTIFICATION

SCALE
0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: CORNISH GROUP
PROJECT: PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B
LOCATION: MACARTHUR ROAD, SPRING FARM
SHEET TITLE: PRE & POST DEVELOPMENT CATCHMENT PLAN

JOB CODE: 316019-09
SHEET NUMBER: C600
REV: 2


## FOR CONSTRUCTION

| DATE | REV | DESCRIPTION | REC | APP |
|---|---|---|---|---|
| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |

REVISIONS

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ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

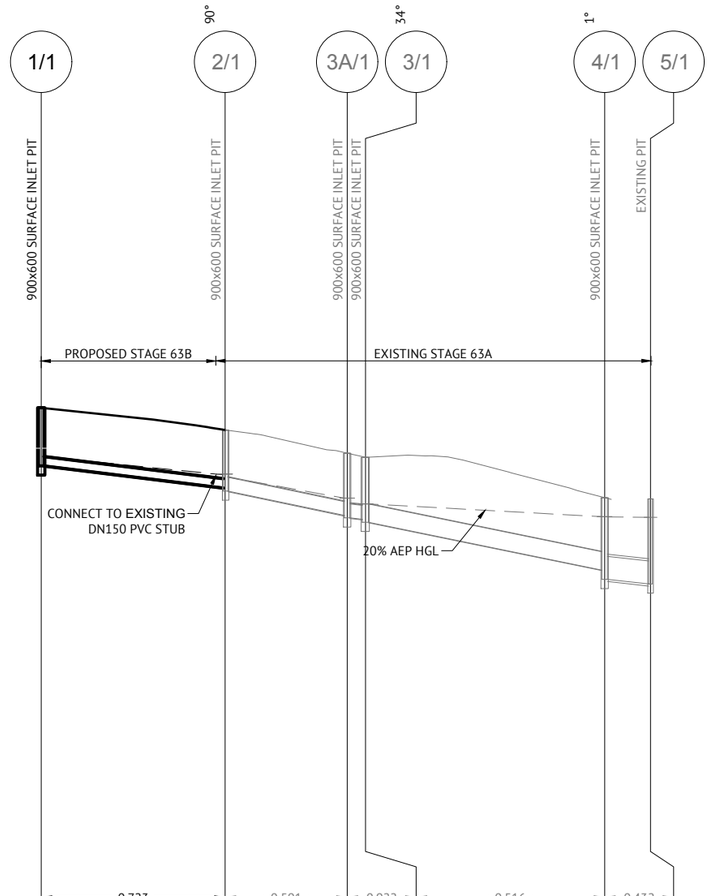
DESIGNED: N. TRANG
CHECKED: R. BARGER
PROJECT MANAGER: M. ZESCHKE
ENGINEERING CERTIFICATION

SCALE
0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: CORNISH GROUP
PROJECT: PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B
LOCATION: MACARTHUR ROAD, SPRING FARM
SHEET TITLE: STORMWATER DRAINAGE LAYOUT PLAN

JOB CODE: 316019-09
SHEET NUMBER: C610
REV: 2

| STORMWATER PIT SETOUT COORDINATES | | | |
|---|---|---|---|
| NAME | EASTING | NORTHING | TYPE |
| 1/1 | 289316.3227 | 6227450.676 | 900x600 SURFACE INLET PIT |




| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VELOCITY (m/s) | 0.723 | | 0.591 | | 0.922 | 0.516 | | 0.432 | | |
| PIPE FLOW (m3/s) | 0.013 | | 0.023 | | 0.037 | 0.036 | | 0.048 | | |
| GRADE % | 1.20% | | 2.00% | | 0.77% | 2.00% | | 1.00% | | |
| PIPE DIAMETER (mm) AND TYPE | 150uPVC | | 225uPVC | | 225uPVC | 300uPVC | | 375 RCP CLASS 2 | | |
| LINEAL DISTANCE | 30.001m | | 19.903m | | 3.000m | 38.995m | | 7.492m | | |
| DATUM R.L. | 66.000 | | | | | | | | | |
| DEPTH FROM LID TO INVERT | 0.947 | 0.945 | 0.995 | 1.015 | 1.054 | 1.009 | 1.059 | 1.181 | 1.331 | 1.387 | 1.387 |
| HYDRAULIC GRADE LINE | 76.187 | 75.893 | 75.852 | 75.512 | 75.438 | 75.418 | 75.418 | 75.209 | 75.206 | 75.200 | 75.200 |
| INVERT LEVEL | 76.037 | 75.677 | 75.627 | 75.230 | 75.191 | 75.168 | 75.118 | 74.338 | 74.188 | 74.113 | 74.113 |
| FINISHED LID/GRATE LEVEL | 76.985 | | 76.622 | | 76.245 | 76.177 | | 75.519 | | 75.500 | 75.500 |
| FINISHED SURFACE LEVEL | 76.985 | | 76.622 | | 76.245 | 76.177 | | 75.519 | | 75.500 | 75.500 |
| CHAINAGE | 0.000 | | 30.001 | | 49.904 | 52.904 | | 91.899 | | 99.391 | |

1

**FOR CONSTRUCTION**

| DATE | REV | DESCRIPTION | | |
|---|---|---|---|---|
| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |

REVISIONS

Premise

**ORAN PARK OFFICE**
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
**WEB: www.premise.com.au**

DESIGNED N. TRANG
CHECKED R. BARGER
PROJECT MANAGER M. ZESCHKE
ENGINEERING CERTIFICATION

SCALE
HORIZONTAL 1:500 (A1)
0 10 20 30m
0 2 4 6m
VERTICAL 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT CORNISH GROUP
PROJECT PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B
LOCATION MACARTHUR ROAD, SPRING FARM
SHEET TITLE STORMWATER DRAINAGE LONGITUDINAL SECTION AND PIT SCHEDULE

JOB CODE 316019-09
SHEET NUMBER C650
REV 2

## 20% AEP CALCULATION TABLE

| LOCATION | | | TIME | | | SUB-CATCHMENT RUNOFF | | | | INLET DESIGN | | | | | | | | DRAIN DESIGN | | | | | | | | | | HEADLOSSES | | | | | | | | | | | | PART FULL | | DESIGN LEVELS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | tc | I | C | A | CA | Q | | | | | | Qg | Qb | | tc | I | CA | | Qp | L | S | | | Vf=Q/A | | | STRUCTURE RATIOS | | | V2/2g | Ku | hu | Kw | hw | Sf | hf | dn | Vn | Vn | | | | | | | |
| STRUCTURE NUMBER | DOWNSTREAM STRUCTURE | SUB-CATCHMENTS CONTRIBUTING | SUB-CATCHMENT TIME OF CONCENTRATION | RAINFALL INTENSITY | CO-EFFICIENT OF RUNOFF | SUB-CATCHMENT AREA | EQUIVALENT AREA | SUB-CATCHMENT DISCHARGE | FLOW IN K&C (INC. BYPASS) | FLOW WIDTH | FLOW DEPTH | ROAD GRADE AT INLET | HALF ROAD CAPACITY | FLOW INTO INLET | BYPASS FLOW | BYPASS STRUCTURE NUMBER | CRITICAL TIME OF CONCENTRATION | RAINFALL INTENSITY | TOTAL (C x A) | SUM ADDITIONAL PIPE FLOW | PIPE FLOW | REACH LENGTH | PIPE GRADE | PIPE/BOX DIMENSIONS | CLASS | FULL PIPE VELOCITY | TIME OF FLOW IN REACH | CHARTS USED | Qg/Qo | Du/Do | S/Do | VELOCITY HEAD | UPSTREAM HEADLOSS CO-EFFICIENT | UPSTREAM HEADLOSS | W.S.E. CO-EFFICIENT | CHANGE IN W.S.E. | PIPE FRICTION SLOPE | PIPE FRICTION HEADLOSS (L x Sf) | NORMAL DEPTH | NORMAL DEPTH VELOCITY (MINOR STORM) | NORMAL DEPTH VELOCITY (1 YEAR STORM) | UPSTREAM OBVERT LEVEL | DOWNSTREAM OBVERT LEVEL | UPSTREAM H.G.L. | DOWNSTREAM H.G.L. | W.S.E. | SURFACE OR GRATE LEVEL | STRUCTURE NUMBER |
| | | | min | mm/h | | ha | ha | l/s | l/s | m | m | % | l/s | l/s | l/s | | min | mm/h | ha | l/s | l/s | m | % | mm | | m/s | min | | | | | | m | | | | m | | | m | m/s | m/s | m | m | m | m | m | m | |
| 1/1 | 2/1 | | 6.00 | 120 | 0.82 | 0.079 | 0.065 | 22 | 22 | | | | | 13 | 9 | LOST | 6.00 | 120 | 0.065 | 0 | 13 | 30.001 | 1.200 | 150 | uPVC | 0.72 | 0.53 | 32 | 1.00 | | 1.92 | 0.027 | 5.16 | 0.138 | | 0.138 | 0.98 | 0.294 | 0.098 | 1.04 | 1.04 | 76.187 | 75.827 | 76.187 | 75.893 | 76.325 | 76.985 | 1/1 |
| 2/1 | 3A/1 | 1/1 | 6.00 | 120 | 0.82 | 0.073 | 0.060 | 20 | 20 | | | | | 12 | 8 | LOST | 6.53 | 117 | 0.124 | 0 | 23 | 19.903 | 1.996 | 225 | uPVC | 0.59 | 0.21 | 44 46 45 47 | 0.48 | 0.67 | 1.22 | 0.018 | 2.29 | 0.041 | 2.84 | 0.051 | 1.71 | 0.340 | 0.095 | 1.48 | 1.48 | 75.852 | 75.393 | 75.852 | 75.512 | 75.903 | 76.622 | 2/1 |
| 3A/1 | 3/1 | 1/1 2/1 | 6.00 | 120 | 0.82 | 0.092 | 0.075 | 25 | 25 | | | | | 15 | 11 | LOST | 6.21 | 119 | 0.194 | 0 | 37 | 3.000 | 0.767 | 225 | uPVC | 0.92 | 0.05 | | 0.38 | 1.00 | 1.43 | 0.043 | 1.72 | 0.075 | | 0.075 | 0.67 | 0.020 | 0.172 | 1.12 | 1.13 | | | 75.438 | 75.418 | 75.512 | 76.245 | 3A/1 |
| 3/1 | 4/1 | 1/1 2/1 3A/1 | | | | | | | | | | | | | | | 6.26 | 118 | 0.194 | 0 | 36 | 38.995 | 2.000 | 300 | uPVC | 0.52 | 0.34 | 34 37 | 0.00 | 0.75 | 1.00 | 0.014 | 0.00 | 0.000 | | 0.000 | 0.53 | 0.208 | 0.106 | 1.64 | 1.65 | 75.343 | 74.563 | 75.418 | 75.209 | 75.418 | 76.177 | 3/1 |
| 4/1 | 5/1 | 1/1 2/1 3A/1 | 6.00 | 120 | 0.82 | 0.082 | 0.067 | 22 | 22 | | | | | 13 | 9 | LOST | 6.59 | 116 | 0.261 | 0 | 48 | 7.492 | 1.000 | 375 | RCP CLAS S 2 | 0.43 | 0.08 | 33 34 | 0.27 | 0.80 | 2.72 | 0.010 | 0.40 | 0.004 | | 0.004 | 0.07 | 0.006 | 0.134 | 1.35 | 1.37 | 74.563 | 74.488 | 75.206 | 75.200 | 75.209 | 75.519 | 4/1 |
| 5/1 | | 1/1 2/1 3A/1 4/1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 75.200 | 75.500 | 5/1 |

## 1% AEP CALCULATION TABLE

| LOCATION | | | TIME | | | SUB-CATCHMENT RUNOFF | | | | INLET DESIGN | | | | | DRAIN DESIGN | | | | | | | | | | | HEADLOSSES | | | | | | | | | | | | PART FULL | | DESIGN LEVELS | | | | | | RUNOFF | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | tc | I | C | A | CA | Q | | | Qg | Qb | | tc | I | CA | | Qp | L | S | | | Vf=Q/A | | | STRUCTURE RATIOS | | | V2/2g | Ku | hu | Kw | hw | Sf | hf | dn | Vn | | | | | | | | | | |
| STRUCTURE NUMBER | DOWNSTREAM STRUCTURE | SUB-CATCHMENTS CONTRIBUTING | SUB-CATCHMENT TIME OF CONCENTRATION | RAINFALL INTENSITY | CO-EFFICIENT OF RUNOFF | SUB-CATCHMENT AREA | EQUIVALENT AREA | SUB-CATCHMENT DISCHARGE | FLOW IN K&C (INC. BYPASS) | ROAD GRADE AT INLET | FLOW INTO INLET | BYPASS FLOW | BYPASS STRUCTURE NUMBER | CRITICAL TIME OF CONCENTRATION | RAINFALL INTENSITY | TOTAL (C x A) | SUM ADDITIONAL PIPE FLOW | PIPE FLOW | REACH LENGTH | PIPE GRADE | PIPE/BOX DIMENSIONS | CLASS | FULL PIPE VELOCITY | TIME OF FLOW IN REACH | CHARTS USED | Qg/Qo | Du/Do | S/Do | VELOCITY HEAD | UPSTREAM HEADLOSS CO-EFFICIENT | UPSTREAM HEADLOSS | W.S.E. CO-EFFICIENT | CHANGE IN W.S.E. | PIPE FRICTION SLOPE | PIPE FRICTION HEADLOSS (L x Sf) | NORMAL DEPTH | NORMAL DEPTH VELOCITY | UPSTREAM OBVERT LEVEL | DOWNSTREAM OBVERT LEVEL | UPSTREAM H.G.L. | DOWNSTREAM H.G.L. | W.S.E. | SURFACE OR GRATE LEVEL | MAJOR SURFACE FLOW CAPACITY | MAJOR SURFACE FLOW | DEPTH x VELOCITY PRODUCT | STRUCTURE NUMBER |
| | | | min | mm/h | | ha | ha | l/s | l/s | % | l/s | l/s | | min | mm/h | ha | l/s | l/s | m | % | mm | | m/s | min | | | | | m | | | | m | | | m | m/s | m | m | m | m | m | m | l/s | l/s | $m^2/s$ | |
| 1/1 | 2/1 | | 6.00 | 205 | 1.00 | 0.079 | 0.079 | 45 | 45 | | 19 | 26 | LOST | 6.00 | 205 | 0.079 | 0 | 19 | 30.001 | 1.200 | 150 | uPVC | 1.09 | 0.53 | 32 | 1.00 | | 3.62 | 0.060 | 2.72 | 0.163 | | 0.163 | 1.58 | 0.475 | 0.150 | 1.09 | 76.187 | 75.827 | 76.417 | 75.941 | 76.580 | 76.985 | | 45 | | 1/1 |
| 2/1 | 3A/1 | 1/1 | 6.00 | 205 | 1.00 | 0.073 | 0.073 | 42 | 42 | | 18 | 23 | LOST | 6.53 | 199 | 0.152 | 0 | 35 | 19.903 | 1.996 | 225 | uPVC | 0.87 | 0.21 | 44 46 45 47 | 0.49 | 0.67 | 1.49 | 0.039 | 2.29 | 0.089 | 2.84 | 0.110 | 1.26 | 0.251 | 0.119 | 1.63 | 75.852 | 75.393 | 75.852 | 75.601 | 75.963 | 76.622 | | 42 | | 2/1 |
| 3A/1 | 3/1 | 1/1 2/1 | 6.00 | 205 | 1.00 | 0.092 | 0.092 | 53 | 53 | | 22 | 31 | LOST | 6.21 | 203 | 0.237 | 0 | 53 | 3.000 | 0.767 | 225 | uPVC | 1.34 | 0.05 | | 0.38 | 1.00 | 1.82 | 0.092 | 1.54 | 0.141 | | 0.141 | 1.41 | 0.042 | 0.225 | 1.34 | | | 75.460 | 75.418 | 75.601 | 76.245 | | 53 | | 3A/1 |
| 3/1 | 4/1 | 1/1 2/1 3A/1 | | | | | | | | | | | | 6.26 | 202 | 0.237 | 0 | 53 | 38.995 | 2.000 | 300 | uPVC | 0.75 | 0.34 | 34 37 | 0.00 | 0.75 | 1.00 | 0.029 | 0.00 | 0.000 | | 0.000 | 0.51 | 0.198 | 0.130 | 1.81 | 75.343 | 74.563 | 75.418 | 75.220 | 75.418 | 76.177 | | | | 3/1 |
| 4/1 | 5/1 | 1/1 2/1 3A/1 | 6.00 | 205 | 1.00 | 0.082 | 0.082 | 47 | 47 | | 20 | 27 | LOST | 6.59 | 198 | 0.319 | 0 | 69 | 7.492 | 1.000 | 375 | RCP CLAS S 2 | 0.62 | 0.08 | 33 34 | 0.27 | 0.80 | 2.75 | 0.020 | 0.42 | 0.008 | | 0.008 | 0.15 | 0.011 | 0.163 | 1.49 | 74.563 | 74.488 | 75.211 | 75.200 | 75.220 | 75.519 | | 47 | | 4/1 |
| 5/1 | | 1/1 2/1 3A/1 4/1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 75.200 | 75.500 | | | | 5/1 |

**FOR CONSTRUCTION**

| DATE | REV | DESCRIPTION | | |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |
| DATE | REV | DESCRIPTION | REC | APP |

REVISIONS

Premise

ORAN PARK OFFICE
SUITE 301, LEVEL 3 ORAN PARK PODIUM
351 ORAN PARK DRIVE
ORAN PARK, NSW 2570
PH: (02) 4632 6500
WEB: www.premise.com.au

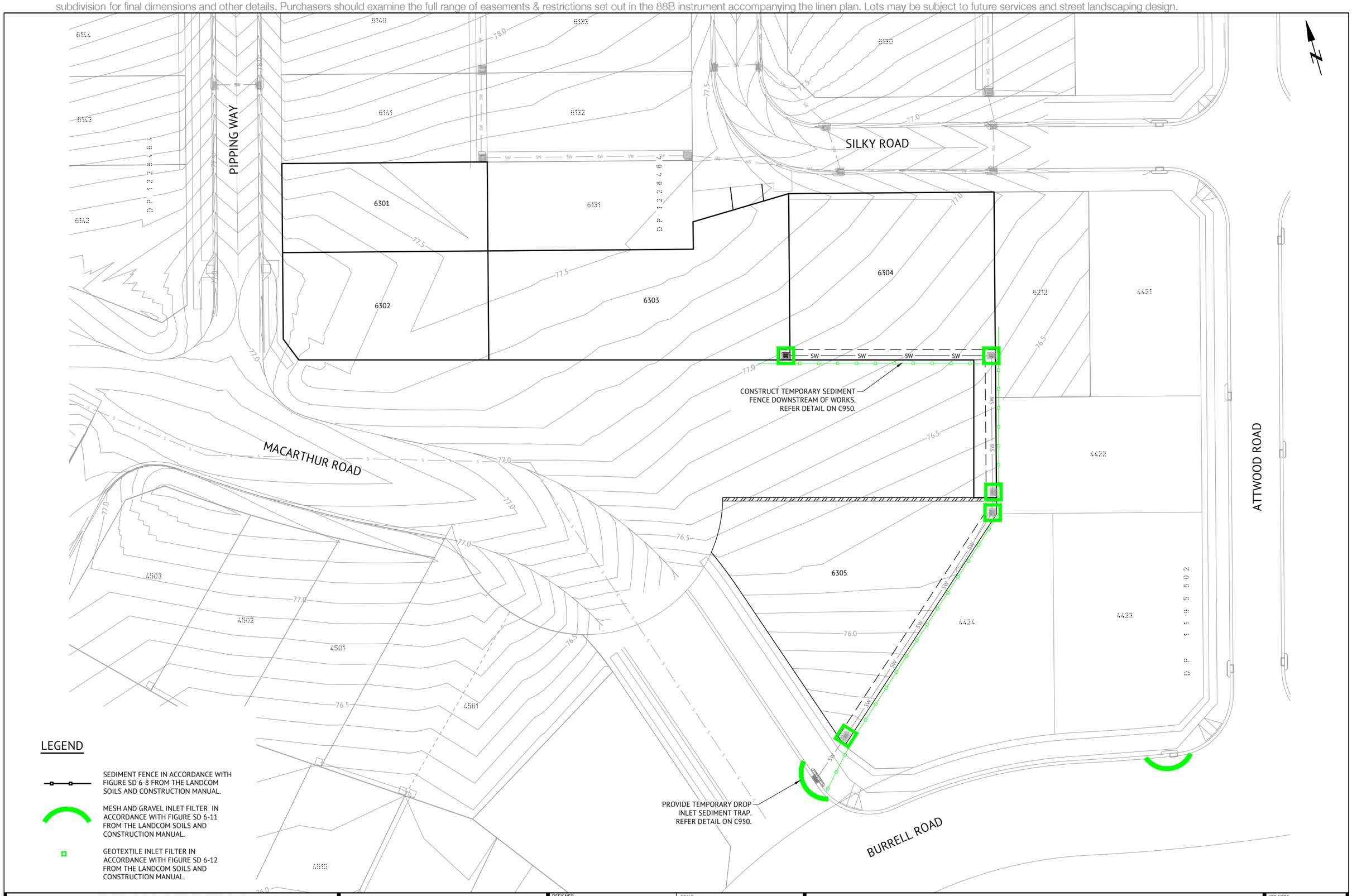
DESIGNED: N. TRANG
CHECKED: R. BARGER
PROJECT MANAGER: M. ZESCHKE
ENGINEERING CERTIFICATION

SCALE

ORIGINAL SHEET SIZE A1

CLIENT: CORNISH GROUP
PROJECT: PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B
LOCATION: MACARTHUR ROAD, SPRING FARM
SHEET TITLE: STORMWATER DRAINAGE CALCULATION SHEET

JOB CODE: 316019-09
SHEET NUMBER: C680
REV: 2




## LEGEND

- SEDIMENT FENCE IN ACCORDANCE WITH FIGURE SD 6-8 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- MESH AND GRAVEL INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-11 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.
- GEOTEXTILE INLET FILTER IN ACCORDANCE WITH FIGURE SD 6-12 FROM THE LANDCOM SOILS AND CONSTRUCTION MANUAL.

## FOR CONSTRUCTION

| DATE | REV | DESCRIPTION | | |
|---|---|---|---|---|
| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |

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Premise
ORAN PARK OFFICE
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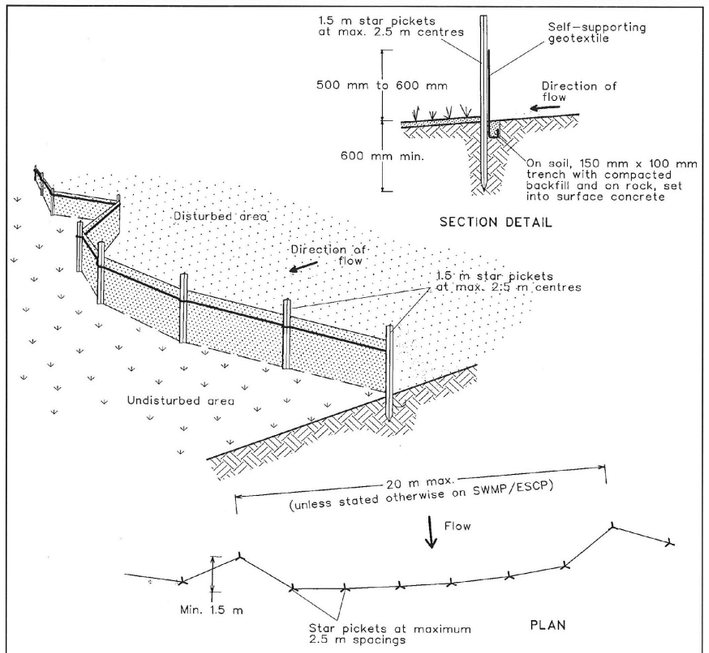
WEB: www.premise.com.au

DESIGNED: N. TRANG
CHECKED: R. BARGER
PROJECT MANAGER: M. ZESCHKE
ENGINEERING CERTIFICATION

SCALE
0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: CORNISH GROUP
PROJECT: PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B
LOCATION: MACARTHUR ROAD, SPRING FARM
SHEET TITLE: EROSION AND SEDIMENT CONTROL PLAN

JOB CODE: 316019-09
SHEET NUMBER: C900
REV: 2




## Construction Notes

1. Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
2. Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
3. Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
4. Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
5. Join sections of fabric at a support post with a 150-mm overlap.
6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

**SEDIMENT FENCE** **SD 6-8**

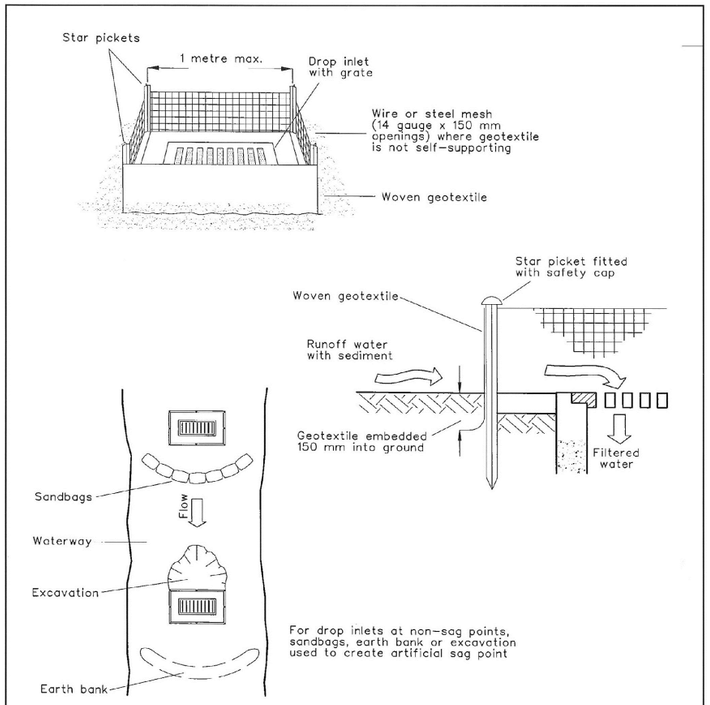



NOTE: This practice only to be used where specified in an approved SWMP/ESCP.

## Construction Notes

1. Install filters to kerb inlets only at sag points.
2. Fabricate a sleeve made from geotextile or wire mesh longer than the length of the inlet pit and fill it with 25 mm to 50 mm gravel.
3. Form an elliptical cross-section about 150 mm high x 400 mm wide.
4. Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks.
5. Form a seal with the kerb to prevent sediment bypassing the filter.
6. Sandbags filled with gravel can substitute for the mesh or geotextile providing they are placed so that they firmly abut each other and sediment-laden waters cannot pass between.

**MESH AND GRAVEL INLET FILTER** **SD 6-11**




## Construction Notes

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

**GEOTEXTILE INLET FILTER** **SD 6-12**

**FOR CONSTRUCTION**

| DATE | REV | DESCRIPTION | | |
|---|---|---|---|---|
| 13/10/20 | 2 | FOR CONSTRUCTION APPROVAL | NTT | MZ |
| 28/09/20 | 1 | FOR REVIEW | NTT | MZ |

REVISIONS

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351 ORAN PARK DRIVE
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WEB: www.premise.com.au

DESIGNED N. TRANG
CHECKED R. BARGER
PROJECT MANAGER M. ZESCHKE
ENGINEERING CERTIFICATION

SCALE

ORIGINAL SHEET SIZE A1

CLIENT CORNISH GROUP

PROJECT PROPOSED SUBDIVISION OF LOT 6213 IN DP1228465 - STAGE 63B

LOCATION MACARTHUR ROAD, SPRING FARM

SHEET TITLE EROSION AND SEDIMENT CONTROL FIGURES

JOB CODE 316019-09

SHEET NUMBER C950

REV 2