

PROPOSED DEVELOPMENT

84-88 PARKER ST, KINGSWOOD, NSW, 2747

CIVIL WORKS

NOTE:

THE FOLLOWING INSPECTIONS MUST BE COMPLETED BY ADG ENGINEERS BEFORE ENGINEERING CERTIFICATION WILL BE ISSUED. THE CONTRACTOR IS TO PROVIDE A MINIMUM OF 72 HOURS NOTICE TO ADG FOR REQUIRED INSPECTIONS. SHOULD THE CONTRACTOR FAIL TO REQUEST AN INSPECTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS TO ALLOW FOR THE WORKS TO BE INSPECTED TO THE SATISFACTION OF ADG. ANY INSPECTIONS THAT FAIL ARE TO BE RE-INSPECTED WITH ALL REINSPECTION COSTS TO BE PAID BY THE CONTRACTOR.

- PRESTART
- EARTHWORKS – FINAL STRIPPING OF TOPSOIL, INSTALLATION OF SEDIMENT AND EROSION CONTROL MEASURES
- UNSUITABLE GROUND
- SIDE AND CUT OFF DRAINS
- STORMWATER PIPE LAID ON BEDDING PRIOR TO BACKFILL
- STORMWATER TRENCH BACKFILLED PRIOR TO PAVEMENT PLACEMENT
- STORMWATER STRUCTURE BASE SLABS
- STORMWATER DETENTION TANKS

- i) BIO-RETENTION PRIOR TO INSTALLATION OF EACH LAYER
- j) PAVEMENT SUBGRADE
- k) PAVEMENT REINFORCING
- l) PAVEMENT PRIOR TO SEALING (PRESEAL)
- m) RETAINING WALL FOOTING REINFORCING
- n) RETAINING WALL BLOCKWORK PRIOR TO CORE FILL
- o) STEEL REINFORCEMENT OF CONCRETE STRUCTURES
- p) PRACTICAL COMPLETION
- q) ON MAINTENANCE
- r) OFF MAINTENANCE
- s) ANY OTHER INSPECTION AS SPECIFIED BY LOCAL COUNCIL (REFER DEVELOPMENT APPROVAL)
- t) ANY OTHER INSPECTION AS REQUIRED BY THE WATER AUTHORITY AND WHERE RELEVANT THEIR CERTIFICATION SCHEME

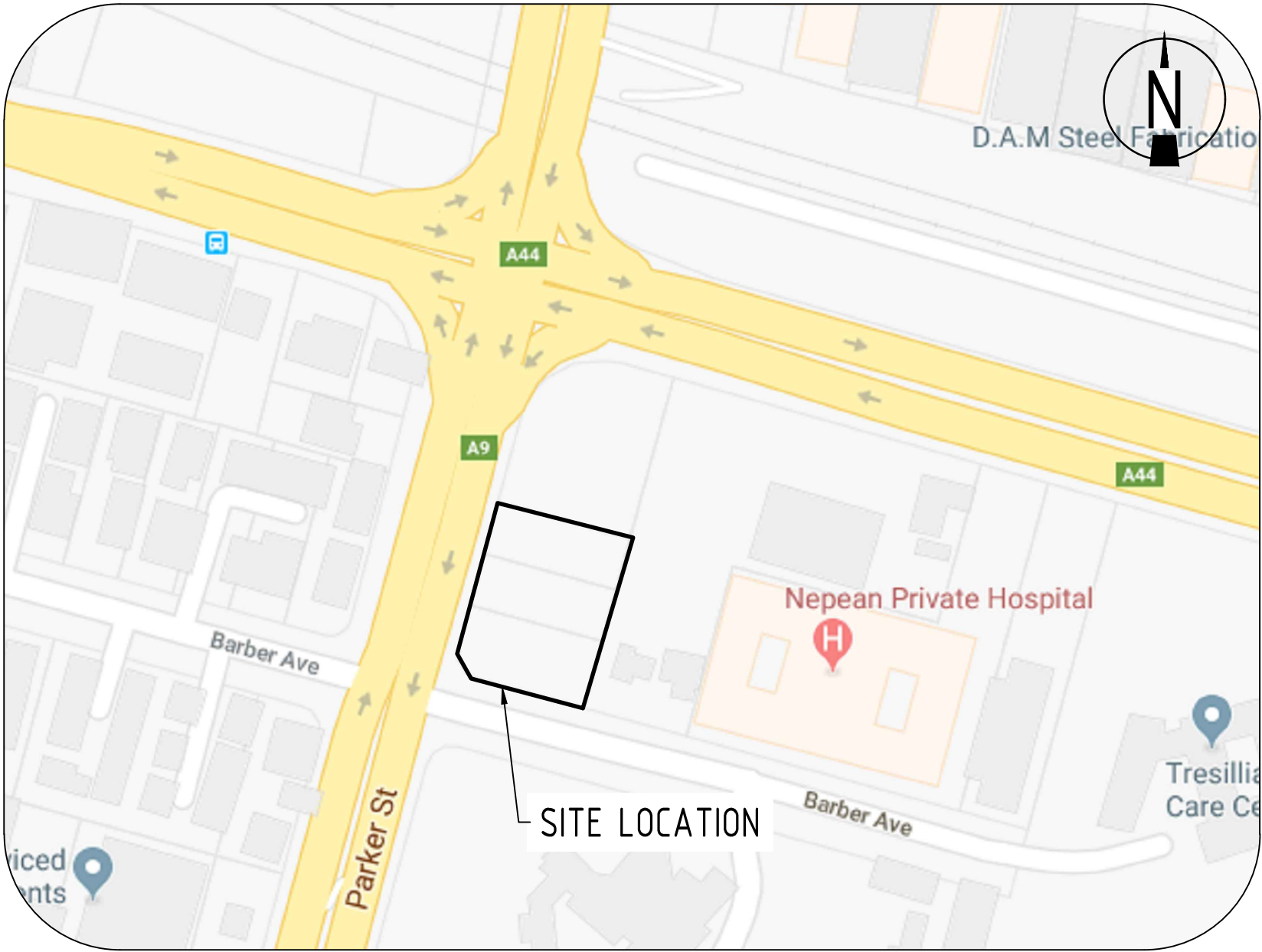
GENERAL NOTES:

- ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE SHOWN.
- G2. ALL SETOUT ON SITE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO ALLOW FOR ALL MEANS NECESSARY TO ACCURATELY SETOUT THE WORKS.
- G3. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND WHERE FURTHER DETAILS ARE REQUIRED THE CONTRACTOR SHALL REFER TO PENRITH CITY COUNCIL (PCC) DEVELOPMENT GUIDELINES, LOCAL WATER AUTHORITY GUIDELINES, ASSOCIATED STANDARD DRAWINGS & SPECIFICATIONS U.N.O.
- G4. SHOULD ANY OF THE CONSTRUCTED WORKS BE CONSTRUCTED OUTSIDE OF THE TOLERANCES SPECIFIED WITHIN THE PROJECT SPECIFICATION AND LOCAL AUTHORITY REQUIREMENTS, THE CONTRACTOR WILL RECTIFY AT THEIR COST INCLUSIVE OF ANY ADDITIONAL COSTS INCURRED BY ADG.
- G5. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. NO RESPONSIBILITY IS TAKEN BY ADG OR THE PRINCIPAL FOR THE ACCURACY AND COMPLETENESS OF THIS INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCURATELY ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CONTRACTOR TO LOCATE AND PROTECT SERVICES AS REQUIRED DURING PROPOSED WORKS.
- G6. THE CONTRACTOR IS TO CHECK THROUGH LOCATING, POTHOLING AND SURVEY ALL CRITICAL CONNECTION POINTS FOR ALL CIVIL WORKS SHOWN ON THE DRAWINGS INCLUDING ANY POTENTIAL EXISTING SERVICES CLASHES PRIOR TO COMMENCEMENT OF CIVIL WORKS. CONTRACTOR TO IMMEDIATELY REPORT AND DISCREPANCIES TO ADG AND AWAIT FORMAL DIRECTION PRIOR TO COMMENCING CIVIL WORKS.
- G7. ON COMPLETION OF SERVICES INSTALLATION, ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL LEVEL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
- G8. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO AUTHORITY/COUNCIL'S INFRASTRUCTURE. SUCH REPAIR OR REINSTATEMENT TO BE CARRIED OUT IMMEDIATELY TO THE SATISFACTION OF INFRASTRUCTURE OWNER/MANAGER / AUTHORITY/COUNCIL.
- G9. CONTRACTOR TO UNDERTAKE ALL WORKS IN ACCORDANCE WITH ALL WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
- G10. WHERE ANY EXCAVATION OR CONSTRUCTION WORKS ARE TO BE IN CLOSE PROXIMITY TO NEIGHBORING LOT BOUNDARIES OR INFRASTRUCTURE, CONTRACTOR TO ALLOW IN SCOPE OF WORKS TO PROVIDE ALL MEASURES NECESSARY TO ENSURE THE INTEGRITY OF EXISTING BOUNDARIES AND INFRASTRUCTURE. THIS MAY INCLUDE THE USE OF LOW VIBRATION EQUIPMENT, TRENCH SHORING ETC AS REQUIRED.
- G11. PRIOR TO THE CONTRACTOR COMMENCING ANY WORKS DETAILED ON THESE DRAWINGS, THE CONTRACTOR IS TO NOTIFY ADG ENGINEERS (AUST.) Pty. Ltd. AND RECEIVE WRITTEN CONFIRMATION THAT WORKS CAN COMMENCE
- G12. CONTRACTOR TO PROVIDE AS CONSTRUCTED DRAWINGS FOR ALL CONSTRUCTED WORKS IN ACCORDANCE WITH LOCAL GOVERNMENT REQUIREMENTS. UNLESS OTHERWISE ADVISED BY ADG ENGINEERS (AUST.) Pty. Ltd. CONTRACTOR TO NOTE COUNCILS ADAC REQUIREMENTS.
- G13. CONTRACTOR TO UNDERTAKE ALL WORKS IN ACCORDANCE WITH RELEVANT APPROVALS.
- G14. CONTRACTOR TO ALLOW TO LIASE/CO-ORDINATE WITH ELECTRICAL, LANDSCAPE & OTHER SERVICE CONTRACTORS THROUGHOUT CIVIL CONSTRUCTION.

- G5. CONTRACTOR TO ORGANIZE ALL DEMOLITION PERMITS PRIOR TO ANY DEMOLITION WORKS COMMENCING ON SITE.
- G6. CONTRACTOR TO ALLOW TO DEMOLISH ALL EXISTING STRUCTURES, ROADS AND SERVICES WITHIN LIMIT OF WORKS AND REMOVE FROM SITE U.N.O.
- G7. CONTRACTOR TO UNDERTAKE DILAPIDATION REPORT FOR ADJOINING PROPERTIES AND COUNCIL ROADS & VERGES PRIOR TO COMMENCEMENT OF ANY WORKS ON SITE.
- G8. CONTRACTOR TO CLEAR & GRUB ALL VEGETATION ON SITE AS IDENTIFIED IN THE APPROVED VEGETATION MANAGEMENT PLAN. CONTRACTOR TO ENSURE ALL TREE ROOTS AND STUMPS ARE COMPLETELY REMOVED AND BACKFILLED TO LEVEL 1 SUPERVISION. CONTRACTOR TO ALLOW TO MULCH ALL CLEARED VEGETATION AND STOCKPILE ON SITE OR REMOVE FROM SITE AS DIRECTED.
- G9. PRIOR TO THE CONTRACTOR COMMENCING ANY WORKS DETAILED ON THESE DRAWINGS, THE CONTRACTOR IS TO NOTIFY ADG ENGINEERS (AUST.) Pty. Ltd. AND RECEIVE WRITTEN CONFIRMATION THAT WORKS CAN COMMENCE.
- G20. DRAWINGS TO BE READ IN CONJUNCTION WITH THE FOLLOWING CONSULTANTS/CONTRACTORS DRAWINGS:
- SURVEYOR - MATTHEW FREEBURN SURVEYORS
- ARCHITECT - ASPECT ARCHITECTS
- HYDRAULICS - TBC
- STRUCTURAL - TBC
- ELECTRICAL - TBC
- COMMUNICATIONS - TBC
- MECHANICAL - TBC
- LANDSCAPE - TBC
- GAS - TBC
- G21. CONTRACTOR TO PREPARE AND HAVE APPROVED BY RELEVANT AUTHORITY: ROAD OPENING PERMIT AND TRAFFIC MANAGEMENT PLAN FOR ALL WORKS WITHIN COUNCIL ROAD RESERVES. CONTRACTOR TO ALLOW FOR ALL COSTS ASSOCIATED WITH IMPLEMENTATION OF THE TMP.
- G22. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH THE FOLLOWING LOCAL AUTHORITY APPROVALS: T.B.A
- G23. CONTRACTOR TO UNDERTAKE ALL WORKS IN ACCORDANCE WITH CONSTRUCTION CERTIFICATE APPROVALS BY COUNCIL.
- G24. NO WORKS ARE TO BE UNDERTAKEN ON LAND OUTSIDE OF THE SITE BOUNDARY WITHOUT FORMAL APPROVAL BY THE OWNER/CUSTODIAN OF THAT LAND INCLUDING BUT NOT LIMITED TO PRIVATE PROPERTY, ROAD RESERVE, PARKS/OPENSPACE, EASEMENTS.
- G25. THE CONTRACTOR SHALL HAVE AN APPROVED SET OF CONSTRUCTION DRAWINGS AND APPROVALS ON SITE AT ALL TIMES.
- G26. ALL WATER & SEWER RETICULATION WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE SYDNEY WATER SUPPLY & SEWERAGE DESIGN AND CONSTRUCTION CODE

LOCALITY PLAN

NOT TO SCALE



PROPERTY DESCRIPTION

LOT: 4, 5 & 6 ON DP29524, DP29524 & DP29524

DRAWING SCHEDULE	
DRAWING No.	DRAWING TITLE
C01	DRAWING SCHEDULE, NOTES & LOCALITY PLAN
C02	EXISTING FEATURES LAYOUT PLAN
C10	SEDIMENT & EROSION CONTROL LAYOUT PLAN
C11	SEDIMENT & EROSION CONTROL NOTES & DETAILS
C30	ROADWORKS & DRAINAGE LAYOUT PLAN
C31	ROADWORKS & DRAINAGE DETAILS
C32	DRIVEWAY CROSSOVER DETAILS

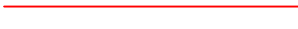
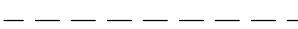

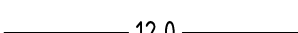













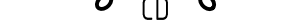


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FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

LEGEND

- | | |
|--|---|
|  | EXISTING PROPERTY BOUNDARY |
|  | EXISTING EASEMENT BOUNDARY |
|  | EXISTING SURFACE CONTOURS |
|  | BULK EARTHWORKS CONTOURS |
|  | EXISTING NOMINAL KERB LINE |
|  | EXISTING STORMWATER DRAINAGE |
|  | EXISTING STORMWATER DRAINAGE DBYD |
|  | PROPOSED NOMINAL KERB LINE |
|  | PROPOSED BATTER |
|  | PROPOSED STORMWATER DRAINAGE |
|  | FIELD INLET SEDIMENT BARRIER |
|  | GULLY PIT SEDIMENT BARRIER |
|  | PROPOSED SUMP PIT |
|  | SEDIMENT FENCE (INDICATIVE LOCATION) |
|  | CHECK DAM |
|  | 1.0m WIDE TURF STRIP BEHIND KERB |
|  | LIMIT OF WORKS |
|  | CONSTRUCTION ENTRY/EXIT SHAKEDOWN AREA |
|  | PROPOSED RETENTION SYSTEM.
REFER STRUCTURAL DRAWINGS |
|  | ROCK PITCHING SCOUR PROTECTION |

GENERAL NOTE:

1. FOR GENERAL NOTES REFER TO DRG No. C01, WHICH IS TO BE REQUESTED AND VIEWED PRIOR TO COMMENCEMENT OF CONSTRUCTION IF NOT SUPPLIED.

SEDIMENT RELEASE GUIDELINES

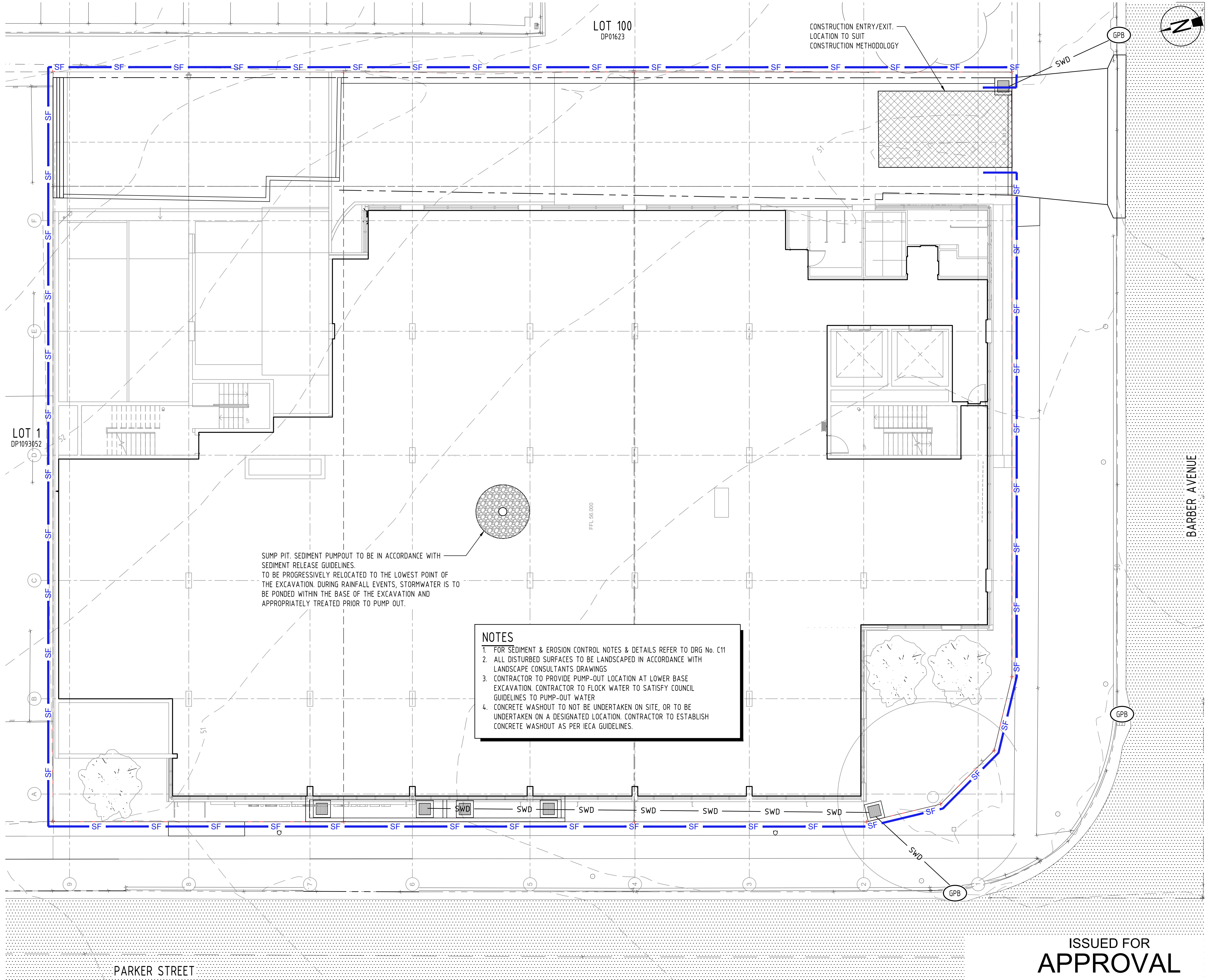
1. ALL RELEASES OF STORMWATER CAPTURED ONSITE, UNLESS OTHERWISE NOTED IN THIS STANDARD, MUST NOT EXCEED THE FOLLOWING LIMITS:
 - a. 50mg/L OF TOTAL SUSPENDED SOLIDS (TSS) AS A MAXIMUM CONCENTRATION;
 - b. TURBIDITY (NTU) VALUE LESS THAN 10% ABOVE BACKGROUND;
 - c. pH VALUE MUST BE IN THE RANGE 6.5 TO 8.5 EXCEPT WHERE, AND TO THE EXTENT THAT, THE NATURAL RECEIVING WATERS LIE OUTSIDE THIS RANGE.
2. THE CONCENTRATION OF TSS RELEASED BY DEWATERING MAY ONLY EXCEED 50mg/L WHERE IT CAN BE DEMONSTRATED AND SUPPORTED THROUGH DOCUMENTATION THAT:
 - a. FURTHER SIGNIFICANT RAINFALL IS FORECAST TO OCCUR BEFORE THE TSS CONCENTRATION IS LIKELY TO BE REDUCED TO 50mg/L;
 - b. RELEASING A HIGHER CONCENTRATION OF TOTAL SUSPENDED SOLIDS WILL RESULT IN A BETTER ENVIRONMENTAL OUTCOME BY PROVIDING STORAGE FOR THE CAPTURE AND TREATMENT OF RUN-OFF FROM THE IMMINENT RAINFALL AND RUN-OFF.
 - c. ALL REASONABLE AND PRACTICABLE STEPS HAVE BEEN TAKEN TO TREAT THE WATER WITHIN BEST-PRACTICE TIME FRAMES;
 - d. FLOCCULANT HAS BEEN APPROPRIATELY APPLIED AND THE CONCENTRATION OF TSS IN THE CAPTURED WATER HAS ALREADY SIGNIFICANTLY DECREASED.
3. FOR ALL OTHER STORMWATER RELEASES, FLOWS AND DISCHARGES FROM THE SITE, THE RELEASE LIMIT PRESCRIBED IN (1a) ABOVE MUST NOT BE EXCEEDED UNLESS THE DEVELOPMENT IS IN FULL COMPLIANCE WITH THIS STANDARD.

NOTE: IT IS RECOMMENDED THAT A SITE-SPECIFIC RELATIONSHIP BETWEEN TURBIDITY AND SUSPENDED SOLIDS IS DETERMINED FOR EACH SEDIMENT BASIN. ONCE A CORRELATION BETWEEN SUSPENDED SOLIDS AND TURBIDITY HAS BEEN ESTABLISHED FOR A SEDIMENT BASIN, TESTING STORMWATER FOR COMPLIANCE WITH RELEASE LIMITS, PRIOR TO RELEASE, CAN BE DONE ON SITE WITH A TURBIDITY TUBE OR CALIBRATED TURBIDITY METER. THIS HAS THE ADVANTAGE OF PROVIDING IMMEDIATE ASSESSMENT TO JUSTIFY A RELEASE RATHER THAN WAITING FOR LABORATORY RESULTS TO CONFIRM CONCENTRATION LEVELS AND COMPLIANCE. NOTE THAT POST-RELEASE TSS VALIDATION IS APPROPRIATE TO DEMONSTRATE THAT THE NTU/TSS CORRELATION IS BEING MAINTAINED.

NOTE: BACKGROUND REFERS TO RECEIVING WATER QUALITY IMMEDIATELY UPSTREAM OF THE SITE LOCATION RELEASE POINT AT THE TIME OF RELEASE. WHERE THERE IS NO IMMEDIATE UPSTREAM RECEIVING WATER AT THE LOCATION AND TIME OF RELEASE, THEN THE TURBIDITY RELEASE LIMIT (NTU) WILL BE EQUAL TO THE RELEASE LIMIT FOR 50mg/L TOTAL SUSPENDED SOLIDS (TSS) BASED UPON THE ONSITE CORRELATION BETWEEN TSS AND NTU.

EROSION AND SEDIMENT CONTROL:

CONTRACTOR TO ALLOW FOR PROVISION OF ALL REQUIRED EROSION
AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH IECA AND
PENRITH CITY COUNCIL POLICIES AND GUIDELINES

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SCALE 1:100
AT ORIGINAL SIZE (A1)



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Client	CORNERSTONE BUILDING DEVELOPMENTS
Project Name	NEPEAN SPECIALIST MEDICAL CENTRE & SUITES 84-88 PARKER STREET, KINGSWOOD NSW 2747

Designed By JH	Checked By JH
Project No. 21196	Drawn By LDV

Status	APPROVAL
Approved By	JH
Scale at A1	1:100

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Revisor
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FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

NOTES:

SEDIMENT CONTROL

1. ALL SEDIMENT & EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) AUSTRALIA GUIDELINES AND THE SPECIFICATIONS.
2. SEDIMENT & EROSION CONTROL DETAILS SHOWN ARE MINIMUM REQUIREMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY THROUGHOUT CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL SEDIMENT CONTROL DEVICES IN A FUNCTIONAL ORDER AND REPLACE ALL BLOCKED SEDIMENT DEVICES AS REQUIRED UNTIL SUCCESSFUL OFF MAINTENANCE OF WORKS.
4. CONSTRUCTION OF ALL SEDIMENT MANAGEMENT DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT. SHALL BE COMPLETED AND EFFECTIVE PRIOR TO:
 - a. STRIPPING OF TOPSOIL AND GRASS.
 - b. BULK EARTHWORKS TO THE SITE.
 - c. SERVICES INSTALLATION.
 - d. PAVEMENT CONSTRUCTION.
5. ALL SEDIMENT MANAGEMENT MEASURES ARE TO REMAIN IN PLACE UNTIL INSTRUCTION IS RECEIVED IN WRITING FROM THE SUPERINTENDENT TO REMOVE ALL OR PART OF THE SILT CONTROL APPLICATIONS.
6. THE BULK EARTHWORKS AND SEDIMENT CONTROL LAYOUT PLAN SHALL BE READ IN CONJUNCTION WITH THE APPROVED DRAWINGS.
7. PRIOR TO COMMENCEMENT OF CONSTRUCTION APPROVAL IS TO BE OBTAINED FROM THE SUPERINTENDENT FOR THE LOCATION OF THE SITE ACCESS POINT AND WASH DOWN AREA WHICH ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
8. IF EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN FOUND TO BE DIFFERENT OR FAILED IN SERVICE, CORRECTIVE ACTION IS TO BE UNDERTAKEN IMMEDIATELY WHICH MAY INCLUDE AMENDMENTS' ADDITIONS TO THE ORIGINAL APPROVED EROSION CONTROL PLANS. SUCH AMENDMENTS ARE TO BE APPROVED BY SUPERINTENDENT, IF DEEMED NECESSARY AND RELEVANT.

OVERALL

- a. TEMPORARY DRAINAGE CONTROL FLOW SHOULD BE DIVERTED AROUND THE WORK SITE WHERE POSSIBLE.
- b. ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND BE OPERATIONAL BEFORE COMMENCING UP-SLOPE EARTHWORKS.
- c. IN AREAS WHERE RUNOFF TURBIDITY IS TO BE CONTROLLED, EXPOSED SURFACES TO BE EITHER MULCHED, COVERED WITH EROSION CONTROL, BLANKETS OR TURFED IF EARTHWORKS ARE EXPECTED TO BE DELAYED FOR MORE THAN 14 DAYS.

SEDIMENT FENCE

10. FOR SEDIMENT FENCE STANDARD DETAIL AND SPECIFICATION REFER TO INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA (IECA) BEST PRACTICES STANDARD DRAWINGS SF-01 AND SF-02 SEDIMENT FENCE.

TEMPORARY CONSTRUCTION ENTRY/EXIT

11. FOR CONSTRUCTION ENTRY / EXIT STANDARD DETAIL AND SPECIFICATION REFER TO INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA (IECA) BEST PRACTICES STANDARD DRAWINGS EXIT-01 AND EXIT-02 CONSTRUCTION EXIT - ROCK PAD (CONSTRUCTION SITES ONLY), EXIT-03 - ROCK PADS FOR BUILDING SITES AND EXIT-04 AND EXIT-05 CONSTRUCTION EXIT - VIBRATION GRID.

KERB INLET

12. FOR KERB INLET STANDARD DETAIL AND SPECIFICATION REFER TO INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA (IECA) BEST PRACTICES STANDARD DRAWING ESC-03 KERB INLET SEDIMENT TRAPS.

CHECK DAMS

13. FOR CHECK DAM STANDARD DETAIL AND SPECIFICATION REFER TO INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA (IECA) BEST PRACTICES STANDARD DRAWING RCD-01 CHECK DAMS.

REVEGETATION

14. FOR REVEGETATION STANDARD SPECIFICATION REFER TO INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA (IECA) BEST PRACTICES STANDARD DRAWING R-01 REVEGETATION GENERAL.

FIELD INLET

15. FOR FIELD INLET STANDARD DETAIL AND SPECIFICATION REFER TO INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA (IECA) BEST PRACTICES STANDARD DRAWING ESC-02 GRATED STORMWATER (FIELD) INLET SEDIMENT TRAP.

16. OPERATION AND MAINTENANCE

17. IN ACCORDANCE WITH PCC ESC GUIDELINES, ALL ESC MEASURES SHALL BE INSPECTED:
 - AT LEAST DAILY (WHEN WORK IS OCCURRING ON SITE) OR WEEKLY (WHEN WORK IS NOT OCCURRING ON SITE)
 - WITHIN 24 HOURS OF EXPECTED RAIN; AND
 - WITHIN 18 HOURS OF A RAINFALL EVENT (I.E. AN EVENT OF SUFFICIENT INTENSITY AND DURATION TO MOBILISE SEDIMENT ON SITE).
17. IN ACCORDANCE WITH PCC ESC GUIDELINES, MAINTENANCE OF ESC MEASURES SHALL OCCUR IN ACCORDANCE WITH THE FOLLOWING TABLE:

MAINTENANCE SCHEDULE		
ESC MEASURE	MAINTENANCE TRIGGER	TIMEFRAME FOR COMPLETION OF MAINTENANCE
SEDIMENT BASINS	WHEN SETTLED SEDIMENT EXCEEDS THE VOLUME OF THE SEDIMENT STORAGE ZONE (SEE COUNCIL'S SEDIMENT BASIN DESIGN GUIDELINES)	WITHIN 7 DAYS OF THE INSPECTION
OTHER ESC MEASURES	THE CAPACITY OF ESC MEASURES FALLS BELOW 75%	BY THE END OF THE DAY

GENERAL

18. CIVIL CONTRACTOR IS TO PROVIDE AN UPDATED PROGRAM OF ESC MAINTENANCE AND CONTROL OF ALL STAGES OF WORK FOR APPROVAL BY THE SUPERINTENDENT.

PUMP-OUT NOTES:

OPTION 1:

PRINCIPLE CONTRACTOR TO MAKE NECESSARY ARRANGEMENTS WITH PCC IF THEY CHOOSE TO PUMP STORMWATER OUT OF THE SITE TO PCC SEWERAGE NETWORK. CONTRACTOR TO ENSURE ALL WATER QUALITY GUIDELINES AND SPECIFICATIONS ARE MET.

OPTION 2

COLLECTED STORMWATER IS TREATED WITH AN APPROPRIATE FLOCCULATING AGENT PRIOR TO PUMP OUT BY LICENSED CONTRACTOR AFTER EVERY RAIN EVENT. SEDIMENT TO BE CLEANED OUT ON REGULAR BASIS.

IECA STANDARD DRAWINGS REGISTER


DRAWING NUMBER	DRAWING DESCRIPTION
EXIT-01	CONSTRUCTION EXIT - ROCK PAD
EXIT-02	CONSTRUCTION EXIT - ROCK PAD
EXIT-03	ROCK PADS FOR BUILDING SITES
CD-01	CATCH DRAINS
CD-02	CATCH DRAINS [EARTH LINED]
RCD-01	CHECK DAMS
FF-01	FILTER FENCE
SF-01	SEDIMENT FENCE
SF-02	SEDIMENT FENCE
ESC-02	GRATED STORMWATER (FIELD) INLET SEDIMENT TRAP
ESC-03	KERB INLET SEDIMENT TRAPS
R-01	REVEGETATION - GENERAL
SP-01	SUMP PITS

*DRAWINGS TO BE READ IN CONJUNCTION WITH INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA (IECA) BEST PRACTICES STANDARD DRAWINGS AND SPECIFICATIONS.

NOTE

1. FOR SEDIMENT & EROSION CONTROL LAYOUT
PLAN REFER TO DRG No. C10
2. CONTRACTOR TO PROVIDE FINAL ESC DESIGN TO
SUIT PROPOSED CONSTRUCTION METHODOLOGY

A	23.11.18	ISSUED FOR APPROVAL - AMENDED AS PER COUNCIL COMMENTS		TL	JH
01	26.06.18	ISSUED FOR DA APPROVAL		LDV	JH
Rev	Date	Description		By	Chk

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	Project Name NEPEAN SPECIALIST MEDICAL CENTRE & SUITES 84-88 PARKER STREET, KINGSWOOD, NSW, 2747		Designed By JH	Checked By JH	Approved By JH		
	Project No. 21196		Drawn By LDV	Scale at A1 N.T.S			
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	Drawing No. C11					Revision A	

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FULL SIZE ON ORIGINAL 0 10 20 30 40 50 60 70 80 90 100mm

LEGEND

12.0	FINISHED SURFACE CONTOURS
---	SITE BOUNDARY
---	EXISTING PROPERTY BOUNDARY
---	EXISTING EASEMENT BOUNDARY
✕ 3.42	EXISTING SURFACE LEVEL
✕ 3.42	FINISHED SURFACE LEVEL
---	EXISTING NOMINAL KERB LINE
---	EXISTING EDGE OF BITUMEN
---	EXISTING ROAD CENTERLINE
-dSWd	EXISTING STORMWATER DRAINAGE (RECORDS)
-dS--dS-	EXISTING SEWER (RECORDS)
-dW--dW-	EXISTING WATER (RECORDS)
-dE--dE-	EXISTING UNDERGROUND ELECTRICITY (RECORDS)
-OE--	EXISTING OVERHEAD ELECTRICITY
-dG--dG-	EXISTING GAS (RECORDS)
-dT--dT-	EXISTING TELECOMMUNICATIONS (RECORDS)
---	EXISTING FENCE
---	LIMIT OF WORKS
SWD	PROPOSED STORMWATER DRAINAGE
KG	PROPOSED KERB & GUTTER IN ACCORDANCE WITH PCC STD DRG SD1003/1
1	DRAINAGE STRUCTURE LABEL
	PROPOSED 1.2m WIDE FOOTPATH IN ACCORDANCE WITH PCC STD DRG. SD1001
	PROPOSED DRIVEWAY HARSTAND
	PROPOSED TYPE 'INDUSTRIAL' DRIVEWAY CROSSOVER IN ACCORDANCE WITH PCC STD DRG. SD1004.
	EXISTING ROAD

STORMWATER STRUCTURE TABLE

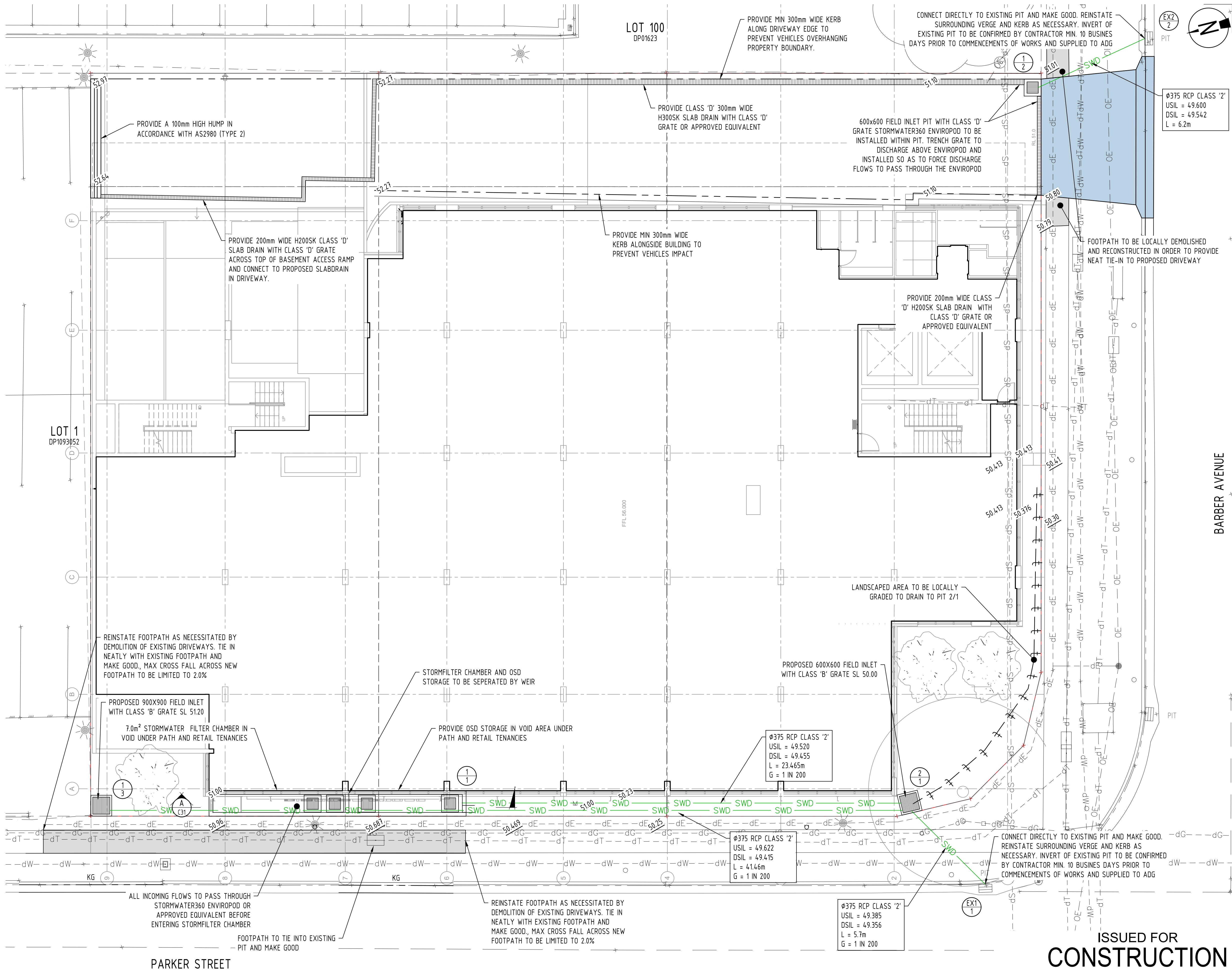
STRUCTURE ID	INVERT	SURFACE LEVEL	DESCRIPTION
1/1	49.520	VARIES	COMBINED STORMWATER TREATMENT / DETENTION TANK
2/1	49.385	50.000	600x600 FIELD INLET PIT WITH CLASS 'B' GRATE
EX/1	TBC	50.100	EXISTING KERB GULLY PIT
1/2	49.600	50.970	600X600 INLET PIT WITH CLASS 'D' GRATE
EX2/2	TBC	50.800	EXISTING KERB GULLY PIT
1 / 3	49.622	52.10	900X900 FIELD INLET PIT WITH CLASS 'B' GRATE

LANDSCAPE ARCHITECT COORDINATION

ALL STREETSCAPE AND CROSS LINK PATHWAY WORKS TO BE BUILT REFERENCING LANDSCAPE DRAWINGS. ANY DISCREPANCY BETWEEN CIVILS AND LANDSCAPE ARCHITECT DRAWINGS ARE TO BE HIGHLIGHTED TO SUPERINTENDENT PRIOR TO CONSTRUCTION.

NOTE

1. FOR TANK DETAIL REFER TO DRG No. C31



Rev	Date	Description	By	Chk
B	19.12.18	ISSUED FOR APPROVAL - AMENDED AS PER COUNCIL COMMENTS	TL	JH
A	23.11.18	ISSUED FOR APPROVAL - AMENDED AS PER COUNCIL COMMENTS	TL	JH
01	26.06.18	ISSUED FOR DA APPROVAL	LDV	JH

0 1 2 3 4 5m
SCALE 1:100
AT ORIGINAL SIZE (A1)



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Client	CORNERSTONE BUILDING DEVELOPMENTS
Project Name	NEPEAN SPECIALIST MEDICAL CENTRE & SUITES 84-88 PARKER STREET, KINGSWOOD, NSW, 2747

Discipline	CIVIL	Status	CONSTRUCTION
Designed By	JH/MB	Checked By	DS
Project No.	21196	Drawn By	LDV

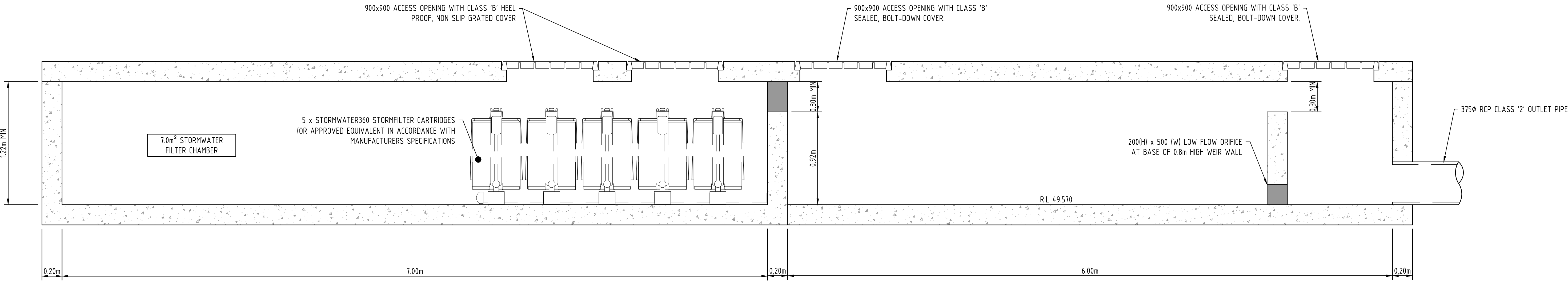
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Title	ROADWORK & DRAINAGE LAYOUT PLAN
Drawing No.	C30
Revision	B

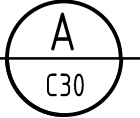
ROADWORKS & DRAINAGE NOTES

- FOR GENERAL NOTES REFER TO DRG No. C01, WHICH IS TO BE REQUESTED AND VIEWED PRIOR TO COMMENCEMENT OF CONSTRUCTION IF NOT SUPPLIED.
- REFER TO HYDRAULIC DRAWINGS FOR BASEMENT, ROOF AND UPPER LEVEL TERRACES DRAINAGE.
- ALL ROADWORKS & DRAINAGE (EXTERNAL TO SITE BOUNDARIES AND/OR COUNCIL OWNED DRAINAGE PIPES INTERNAL TO THE SITE BOUNDARIES) CONSTRUCTION AND TESTING TO BE IN ACCORDANCE WITH PENRITH CITY COUNCIL DEVELOPMENT GUIDELINES, DRAWINGS AND SPECIFICATIONS.
- ALL DRAINAGE CONSTRUCTION (PRIVATELY OWNED DRAINAGE LINES INTERNAL TO THE SITE BOUNDARIES) CONSTRUCTED AND TESTED TO BE IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- ALL ROOFWATER PITS SHALL BE PROVIDED WITH 150Ø STUB TO SERVICE THE LOT AT 50mm ABOVE INVERT OF PIT.
- DRAINAGE PITS TO BE PROVIDED WITH Ø150 STUB FOR FUTURE HYDRAULIC CONNECTION TO BE MINIMUM 50mm ABOVE INVERT OF PIT.
- UNLESS NOTED OTHERWISE, ALL STORMWATER DRAINAGE PIPES SHALL BE:
 - 225 DIA UPVC SN8 RUBBER RING JOINTED
 - 300 DIA AND GREATER CLASS 2 R.C. RUBBER RING JOINTED
- ALL STORMWATER DRAINAGE PIPES INTERNAL TO SITE SHALL BE:
 - 225 DIA TO 375 DIA UPVC SN8 RUBBER RING JOINTED, BLACKMAX OR APPROVED EQUIVALENT.
 - 450 DIA TO 600 DIA PP SN8 RUBBER RING JOINTED, BLACKMAX OR APPROVED EQUIVALENT.
- ALL STORMWATER DRAINAGE PIPES EXTERNAL TO SITE SHALL BE:
 - 300 DIA AND GREATER CLASS 2 OR 3 R.C. RUBBER RING JOINTED
- ALL STORMWATER PIPES ARE TO BE MANUFACTURED TO RELEVANT AUSTRALIAN STANDARDS INCLUDING BUT NOT LIMITED TO AS4058 & AS1992.
- STORMWATER DRAINAGE AND STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ONLY. CONTRACTOR TO CONSIDER CONSTRUCTION LOADINGS AND ENSURE NO EXCESSIVE LOADS ARE PLACED ON STORMWATER DRAINAGE OR STRUCTURES.
- ALL PRECAST END STRUCTURES TO BE CONSTRUCTED WITH REINFORCED CONCRETE END WALL.
- CONTRACTOR TO CONFIRM LOCATION AND LEVEL OF EXISTING STORMWATER DRAINAGE WHERE CONNECTING ON TO EXISTING.
- CONTRACTOR TO NOTIFY THE SUPERINTENDENT OF ANY UNSUITABLE FOUNDING MATERIAL WITHIN DRAINAGE TRENCH OR STORMWATER STRUCTURES AND AWAIT DIRECTION PRIOR TO LAYING OF PIPES.
- TRENCH BACKFILL UNDER PAVEMENT TO BE COMPACTED TO 100% STANDARD DRY DENSITY (AS1289 5.1.1) IN LAYERS NOT EXCEEDING 150mm OF CBR 15 MATERIAL OR APPROVED EQUIVALENT. TRENCH BACKFILL IN ROADS TO BE MINIMUM CBR15 MATERIAL UP TO ROAD SUBGRADE LEVEL.

- ALL STORMWATER GRATES/LIDS WITHIN TRAFFICABLE AREAS TO BE CLASS "D" IN ACCORDANCE WITH AS3996.
- ALL GRATES AND LIDS SHALL SIT FLAT WITH ITS SURROUND AND NOT BE LOOSE OR MOVE UNDER WHEEL LOADS.
- ALL STORMWATER STRUCTURES TO BE CONSTRUCTED IN ACCORDANCE WITH PROJECT SPECIFICATION, AND LOCAL AUTHORITY GUIDELINES AND SPECIFICATIONS. WHERE STRUCTURES EXCEED MAXIMUM DEPTH AS IDENTIFIED WITHIN STANDARD DRAWINGS THE CONTRACTOR WILL ENSURE AN ADEQUATE STRUCTURAL DESIGN IS UNDERTAKEN FOR THE SUBJECT STRUCTURE TO BE CONSTRUCTED TO.
- CONTRACTOR TO ENSURE ALL MANHOLE STRUCTURES COMPLY WITH THE MAXIMUM DEPTH SPECIFIED IN THE PROJECT SPECIFICATION OR LOCAL AUTHORITY FROM FINISHED SURFACE LEVEL TO UNDERSIDE OF ROOF SLAB. ANY NON CONFORMANCE IS TO BE RECTIFIED AT THE CONTRACTORS EXPENSE.
- CONTRACTOR TO INSTALL STEP IRONS WITHIN MANHOLES/FIELD INLETS WHERE REQUIRED BY LOCAL AUTHORITY.
- ALL FOOTPATHS TO BE CONSTRUCTED IN ACCORDANCE WITH ARCHITECTURAL/LANDSCAPING DRAWINGS AND RELEVANT AUTHORITY STANDARD DRAWINGS AND SPECIFICATIONS. FOOTPATHS TO BE CONSTRUCTED WITH MAXIMUM 2% CROSSFALL. SHOULD CONSTRUCTED FOOTPATHS EXCEED 2.5% CROSSFALL, THE CONTRACTOR WILL BE REQUIRED TO RECTIFY BY REMOVING AND REPLACING AT THEIR COST.
- WHERE A STORMWATER DRAINAGE TRENCH HAS BEEN CONSTRUCTED LONGITUDINALLY IN THE ROAD, THEN THE FINAL PAVEMENT SURFACE REPAIR WIDTH IS TO MATCH THE EXISTING LANE WIDTH AND TERMINATE 50mm CLEAR OF THE ROAD CENTERLINE OR LANE LINE LINEMARKING TO ALLOW FOR THE BITUMEN EMULSION JOINT SEAL. REINSTATEMENT OF SURFACE ADJACENT TO THE KERB OR ROAD PAVEMENT EDGE TO EXTEND FULLY TO THE KERB LINE OR EDGE OF PAVEMENT.
- THE CONTRACTOR IS TO CONFIRM THE LOCATION OF SERVICE CONDUITS WITH THE SUPERINTENDENT PRIOR TO LAYING STORMWATER DRAINAGE. ALL TRENCH EXCAVATION AND CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 2011.
- REMOVE ANY REDUNDANT DRAINAGE OUTLETS FROM THE KERB AND CHANNEL INCLUDING ANY ASSOCIATED PIPEWORK ACROSS THE FOOTWAY AND REINSTATE THE KERB AND CHANNEL AND THE FOOTWAY AREA IN ACCORDANCE WITH COUNCIL GUIDELINES.
- ALL STORMWATER PITS TO BE LINEMARKED "FLOWS TO CREEK".
- CONTRACTOR TO UNDERTAKE ROADWORKS TESTING IN ACCORDANCE WITH PCC GUIDELINES, DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR TO UNDERTAKE AND PROVIDE CCTV OF ALL STORMWATER LINES AT ON MAINTENANCE AND OFF MAINTENANCE. SHOULD THE CCTV IDENTIFY DAMAGE OR CRACKING WITHIN THE STORMWATER PIPES, THE CONTRACTOR WILL RECTIFY THE DAMAGE WITHIN THE PIPES BY MEANS DIRECTED BY THE SUPERINTENDENT WHICH MAY INCLUDE BUT NOT BE LIMITED TO PIPE RELINING OR PIPE REPLACEMENT.



SECTION
SCALE 1:50



A	23.11.18	ISSUED FOR APPROVAL - AMENDED AS PER COUNCIL COMMENTS		TL	JH
01	26.06.18	ISSUED FOR DA APPROVAL		LDV	JH
Rev	Date	Description		By	Chk



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Client CORNERSTONE BUILDING DEVELOPMENTS		Discipline CIVIL		Status APPROVAL		Title ROADWORK & DRAINAGE NOTES & DETAILS	
Project Name NEPEAN SPECIALIST MEDICAL CENTRE & SUITES 84-88 PARKER STREET, KINGSWOOD, NSW, 2747		Designed By JH	Checked By JH	Approved By JH			
		Project No. 21196	Drawn By LDV	Scale at A1 1:20			
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Drawing No. C31						Revision A	

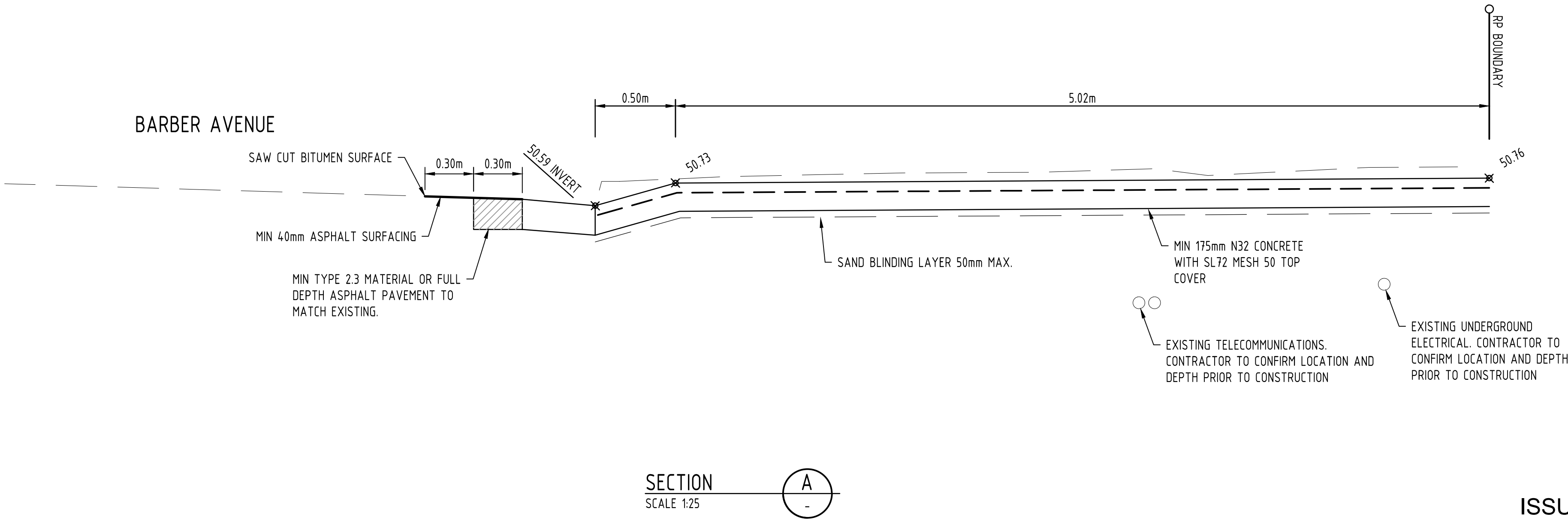
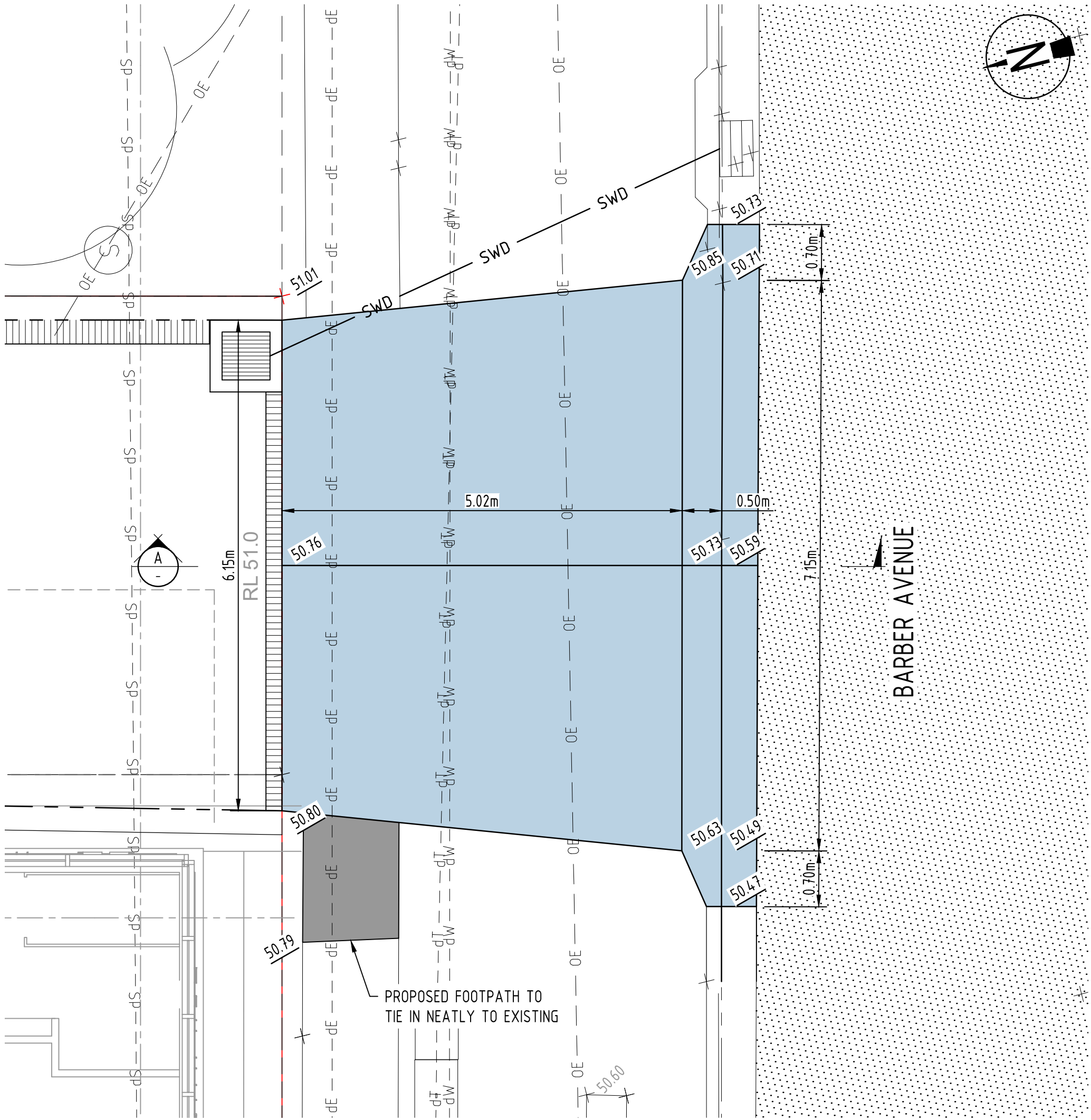
ISSUED FOR
APPROVAL

LEGEND

	12.0	FINISHED SURFACE CONTOURS
		SITE BOUNDARY
		EXISTING PROPERTY BOUNDARY
		EXISTING EASEMENT BOUNDARY
	3.42	EXISTING SURFACE LEVEL
	3.42	FINISHED SURFACE LEVEL
		EXISTING NOMINAL KERB LINE
		EXISTING EDGE OF BITUMEN
		EXISTING ROAD CENTERLINE
	dSWD	EXISTING STORMWATER DRAINAGE (RECORDS)
	dS	EXISTING SEWER (RECORDS)
	dW	EXISTING WATER (RECORDS)
	dE	EXISTING UNDERGROUND ELECTRICITY (RECORDS)
	OE	EXISTING OVERHEAD ELECTRICITY
	dG	EXISTING GAS (RECORDS)
	dT	EXISTING TELECOMMUNICATIONS (RECORDS)
		EXISTING FENCE
		LIMIT OF WORKS
	SWD	PROPOSED STORMWATER DRAINAGE
	KG	PROPOSED KERB & GUTTER IN ACCORDANCE WITH PCC STD DRG. SD1003/1
		PROPOSED 1.2m WIDE FOOTPATH IN ACCORDANCE WITH PCC STD DRG. SD1001
		PROPOSED DRIVEWAY HARDSTAND
		PROPOSED TYPE 'INDUSTRIAL' DRIVEWAY CROSSOVER IN ACCORDANCE WITH PCC STD DRG. SD1004.
		EXISTING ROAD

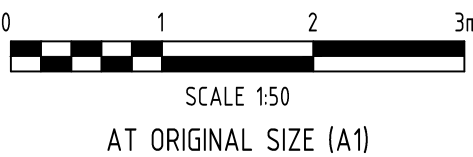
NOTES

- FOR GENERAL NOTES REFER TO DRG No. C01, WHICH IS TO BE REQUESTED AND VIEWED PRIOR TO COMMENCEMENT OF CONSTRUCTION IF NOT SUPPLIED.
- FOR ROADWORKS NOTES & DETAILS REFER TO DRG No. C30 & C31
- ALL ROADWORKS & DRAINAGE CONSTRUCTION AND TESTING TO BE IN ACCORDANCE WITH PENRITH CITY COUNCIL DEVELOPMENT GUIDELINES, DRAWINGS AND SPECIFICATIONS.
- TRENCH BACKFILL UNDER PAVEMENT TO BE COMPACTED TO 100% STANDARD DRY DENSITY (AS1289 5.1.1) IN LAYERS NOT EXCEEDING 150mm OF CBR 15 MATERIAL OR APPROVED EQUIVALENT.
- ALL FOOTPATHS TO BE CONSTRUCTED IN ACCORDANCE WITH ARCHITECTURAL/LANDSCAPING DRAWINGS PENRITH CITY COUNCIL STD DRG SD1001



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APPROVAL

01	26.06.18	ISSUED FOR DA APPROVAL	LDV	JH	
Rev	Date	Description	By	Chk	



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Client	CORNERSTONE BUILDING DEVELOPMENTS
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Discipline	CIVIL	Status	DA APPROVAL
Designed By	JH	Checked By	JH
Project No.	21196	Drawn By	LDV
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		Scale at A1	1:50

Title	DRIVEWAY CROSSOVER DETAILS
Drawing No.	C32
Revision	01