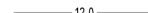
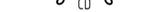




**LEGEND**

-  SITE BOUNDARY
-  EXISTING PROPERTY BOUNDARY
-  EXISTING EASEMENT BOUNDARY
-  12.0 EXISTING SURFACE CONTOURS
-  12.0 BULK EARTHWORKS CONTOURS
-  EXISTING NOMINAL KERB LINE
-  SWD EXISTING STORMWATER DRAINAGE
-  dSWD EXISTING STORMWATER DRAINAGE OBYD
-  PROPOSED NOMINAL KERB LINE
-  PROPOSED BATTER
-  SWD PROPOSED STORMWATER DRAINAGE
-  FIELD INLET SEDIMENT BARRIER
-  GPB GULLY PIT SEDIMENT BARRIER
-  PROPOSED SUMP PIT
-  SF SEDIMENT FENCE (INDICATIVE LOCATION)
-  CD 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:**

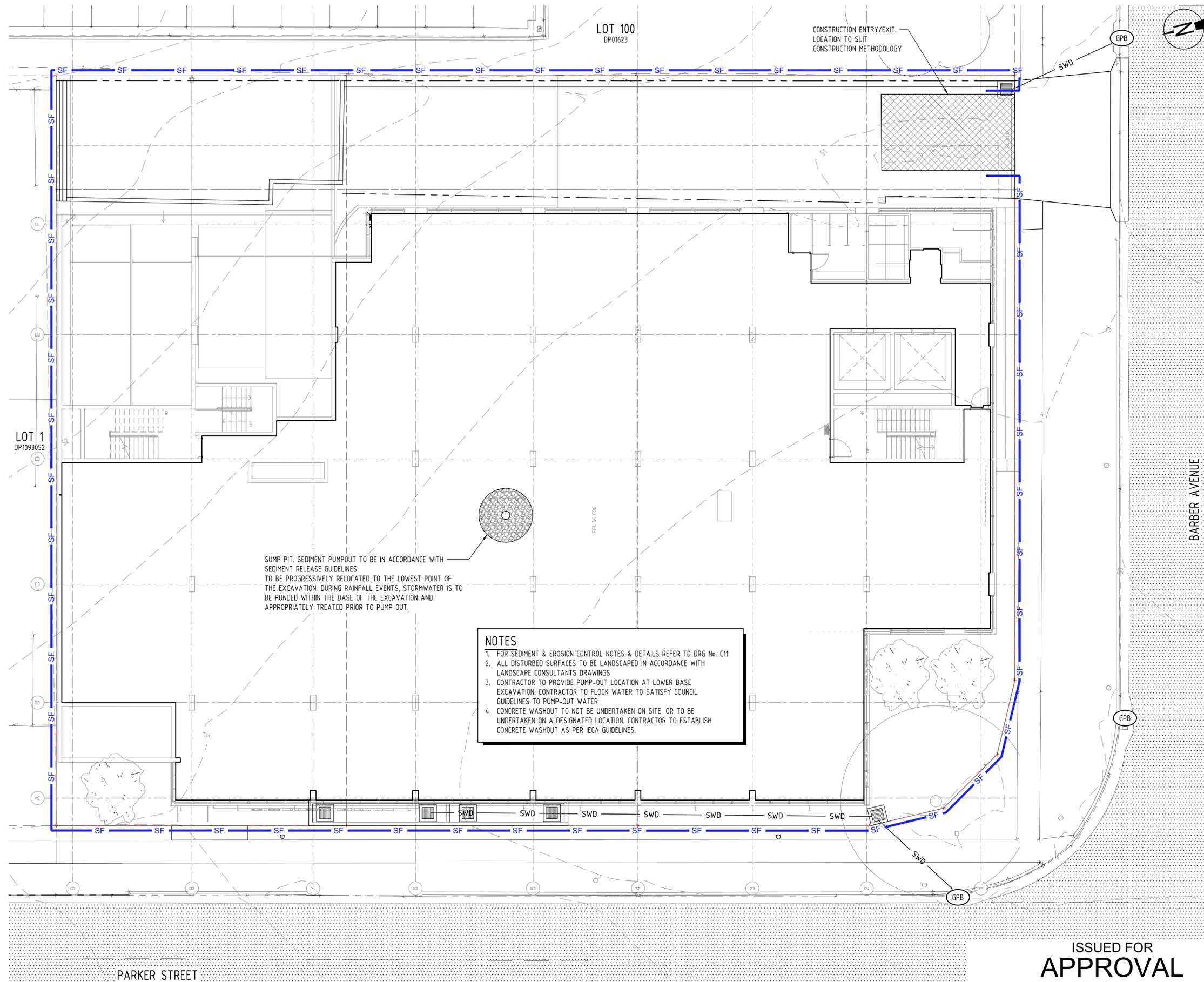
1. ALL RELEASES OF STORMWATER CAPTURED ONSITE, UNLESS OTHERWISE NOTED IN THIS STANDARD, MUST NOT EXCEED THE FOLLOWING LIMITS:
  - a. 50mg/L OF TOTAL SUSPENDED SOLIDS (TSS) AS A MAXIMUM CONCENTRATION;
  - b. TURBIDITY (NTU) VALUE LESS THAN 10% ABOVE BACKGROUND;
  - c. pH VALUE MUST BE IN THE RANGE 6.5 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. FLOCCULENT 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



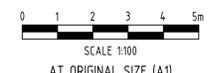
SUMP PIT. SEDIMENT PUMP-OUT TO BE IN ACCORDANCE WITH SEDIMENT RELEASE GUIDELINES. TO BE PROGRESSIVELY RELOCATED TO THE LOWEST POINT OF THE EXCAVATION. DURING RAINFALL EVENTS, STORMWATER IS TO BE PONDED WITHIN THE BASE OF THE EXCAVATION AND APPROPRIATELY TREATED PRIOR TO PUMP OUT.

**NOTES**

1. FOR SEDIMENT & EROSION CONTROL NOTES & DETAILS REFER TO DRG No. C11
2. ALL DISTURBED SURFACES TO BE LANDSCAPED IN ACCORDANCE WITH LANDSCAPE CONSULTANTS DRAWINGS
3. CONTRACTOR TO PROVIDE PUMP-OUT LOCATION AT LOWER BASE EXCAVATION. CONTRACTOR TO FLOCK WATER TO SATISFY COUNCIL GUIDELINES TO PUMP-OUT WATER
4. CONCRETE WASHOUT TO NOT BE UNDERTAKEN ON SITE, OR TO BE UNDERTAKEN ON A DESIGNATED LOCATION. CONTRACTOR TO ESTABLISH CONCRETE WASHOUT AS PER IECA GUIDELINES.

**ISSUED FOR APPROVAL**

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



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Client <b>CORNERSTONE BUILDING DEVELOPMENTS</b>	Discipline <b>CIVIL</b>	Status <b>APPROVAL</b>	Title <b>SEDIMENT &amp; EROSION CONTROL LAYOUT PLAN</b>
Project Name <b>NEPEAN SPECIALIST MEDICAL CENTRE &amp; SUITES 84-88 PARKER STREET, KINGSWOOD, NSW, 2747</b>	Designed By <b>JH</b>	Checked By <b>JH</b>	Approved By <b>JH</b>
Project No. <b>21196</b>	Drawn By <b>LDV</b>	Scale at A1 <b>1:100</b>	Drawing No. <b>C10</b>
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**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**

9.
  - 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

ISSUED FOR  
**APPROVAL**

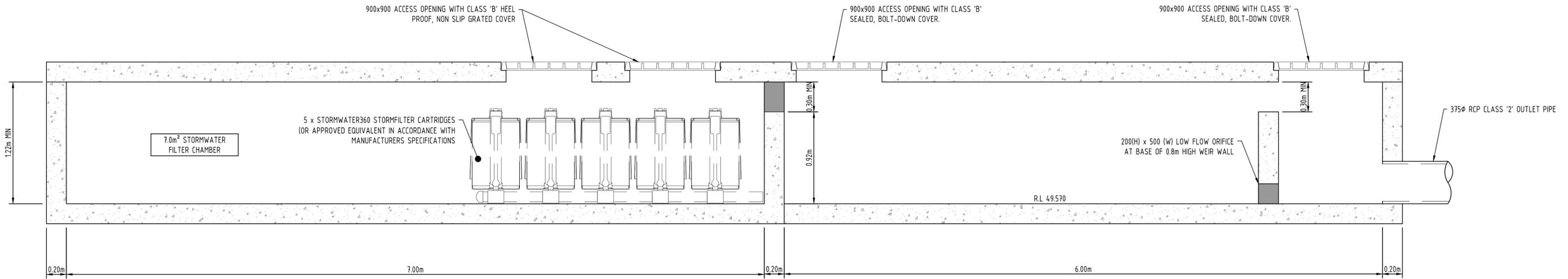
						 <p><b>Sydney Office</b> Suite 802, Level 8, 181 Miller Street North Sydney, New South Wales 2060, Australia</p> <p>T 1300 657 402 F +617 3871 2266 E info@adgce.com W www.adgce.com</p> <p>BRISBANE / SYDNEY / MELBOURNE / GOLD COAST / SUNSHINE COAST / DARWIN / PERTH</p>		Client CORNERSTONE BUILDING DEVELOPMENTS	Discipline CIVIL	Status APPROVAL	Title SEDIMENT & EROSION CONTROL 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 N.T.S			
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A	23.11.18	ISSUED FOR APPROVAL - AMENDED AS PER COUNCIL COMMENTS					TL	JH				
01	28.06.18	ISSUED FOR DA APPROVAL					LDV	JH				
Rev	Date	Description					By	Chk				



**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 A  
SCALE 1:50

ISSUED FOR APPROVAL

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



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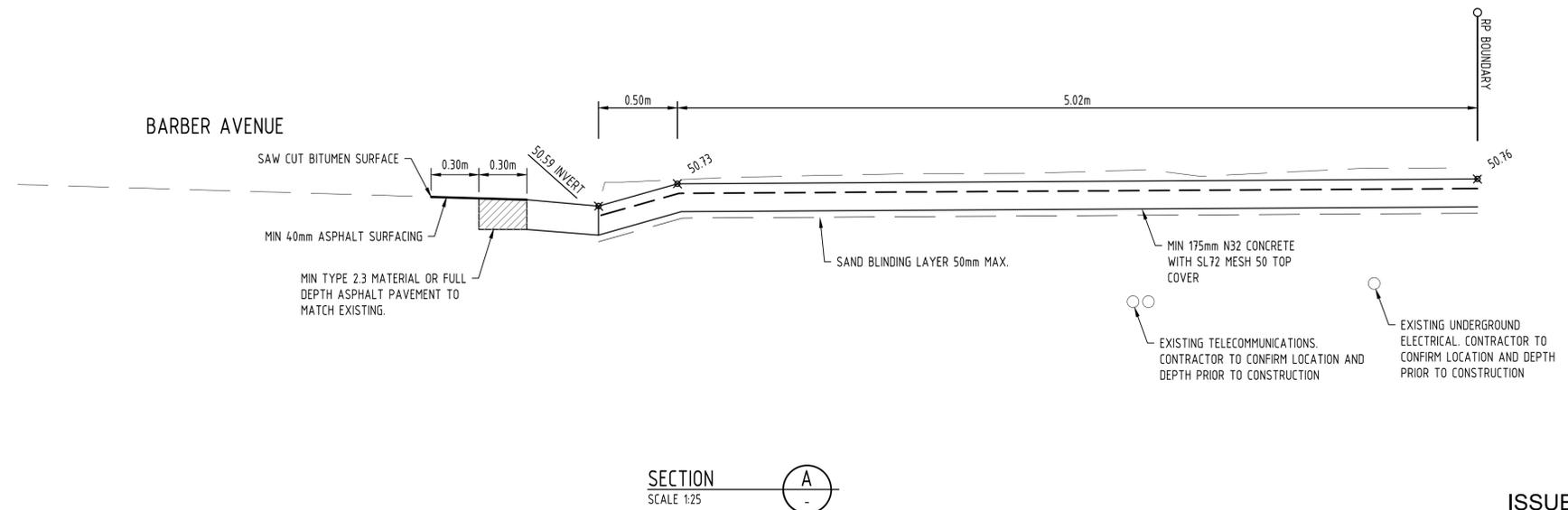
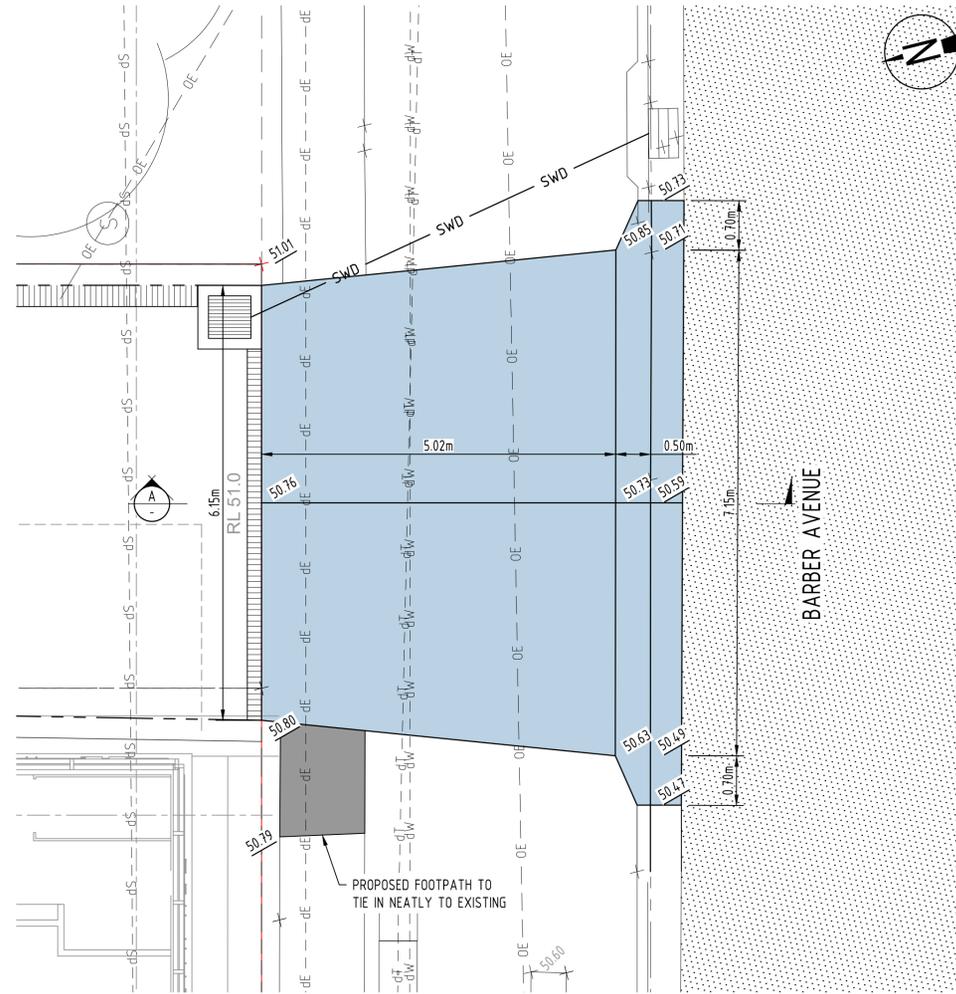
Client CORNERSTONE BUILDING DEVELOPMENTS	Discipline CIVIL	Status APPROVAL	Title ROADWORK & DRAINAGE NOTES & DETAILS
Project Name NEPEAN SPECIALIST MEDICAL CENTRE & SUITES 84-88 PARKER STREET, KINGSWOOD, NSW, 2747	Designed By JH	Checked By JH	Approved By JH
Project No. 21196	Drawn By LDV	Scale at A1 1:20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

	FINISHED SURFACE CONTOURS
	SITE BOUNDARY
	EXISTING PROPERTY BOUNDARY
	EXISTING EASEMENT BOUNDARY
	EXISTING SURFACE LEVEL
	FINISHED SURFACE LEVEL
	EXISTING NOMINAL KERB LINE
	EXISTING EDGE OF BITUMEN
	EXISTING ROAD CENTERLINE
	EXISTING STORMWATER DRAINAGE (RECORDS)
	EXISTING SEWER (RECORDS)
	EXISTING WATER (RECORDS)
	EXISTING UNDERGROUND ELECTRICITY (RECORDS)
	EXISTING OVERHEAD ELECTRICITY
	EXISTING GAS (RECORDS)
	EXISTING TELECOMMUNICATIONS (RECORDS)
	EXISTING FENCE
	LIMIT OF WORKS
	PROPOSED STORMWATER DRAINAGE
	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



**ISSUED FOR APPROVAL**

Rev	Date	Description	By	Chk
01	28.06.18	ISSUED FOR DA APPROVAL	LDV	JH



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 BRISBANE / SYDNEY / MELBOURNE / GOLD COAST / SUNSHINE COAST / DARWIN / PERTH

Client <b>CORNERSTONE BUILDING DEVELOPMENTS</b>		Discipline CIVIL	Status DA APPROVAL
Project Name <b>NEPEAN SPECIALIST MEDICAL CENTRE &amp; SUITES 84-88 PARKER STREET, KINGSWOOD, NSW, 2747</b>		Designed By JH	Checked By JH
Project No. 21196	Drawn By LDV	Approved By JH	
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Title <b>DRIVEWAY CROSSOVER DETAILS</b>		Revision <b>01</b>
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