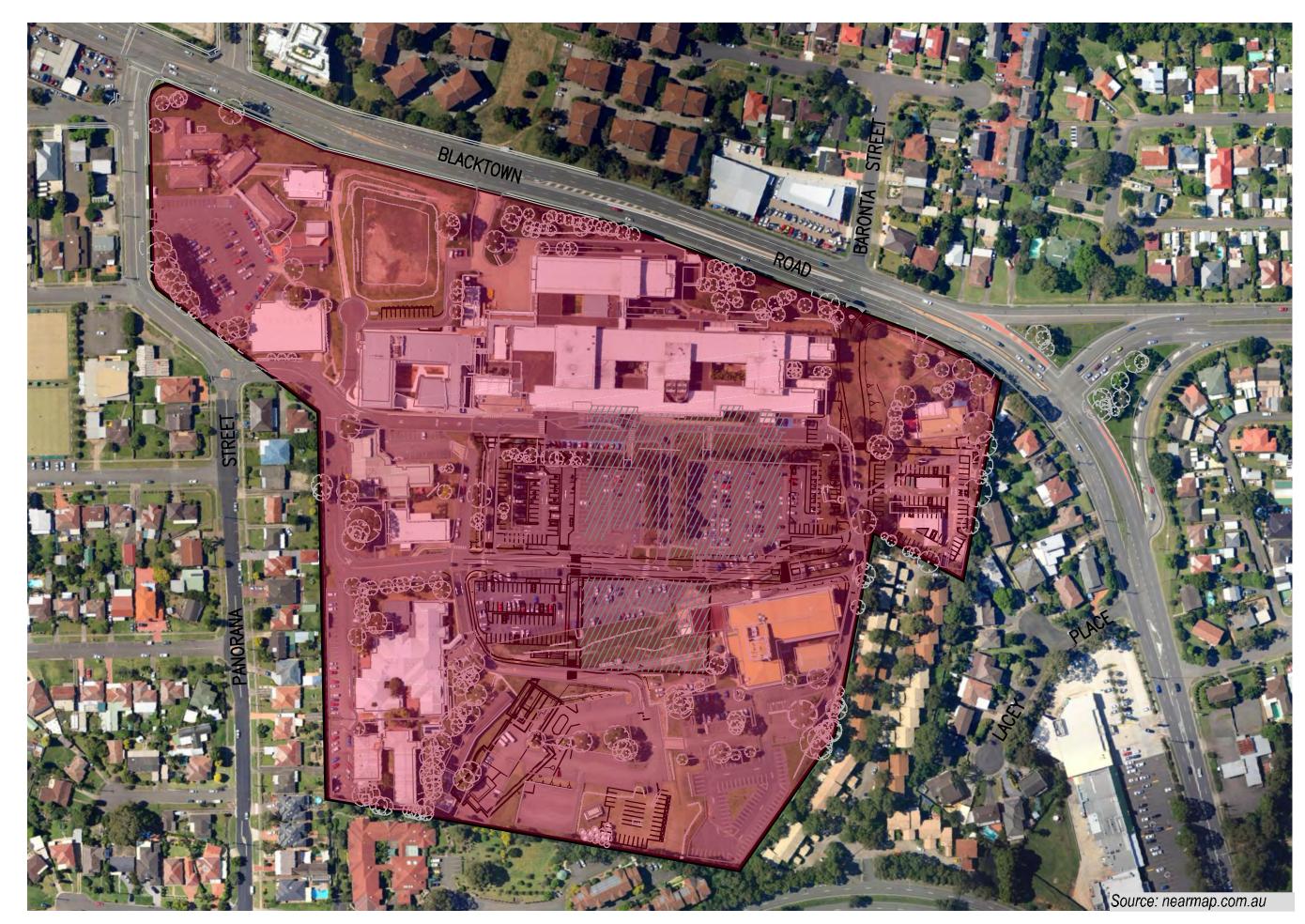
BLACKTOWN HOSPITAL CIVIL WORKS DRAWINGS



LOCATION PLAN
SCALE: NTS

DRAWING LISTS

RAWING TITLE
OVER SHEET
ENERAL NOTES
VERALL SITE PLAN
ENERAL ARRANGEMENT PLAN SHEET 1 OF 2
ENERAL ARRANGEMENT PLAN SHEET 2 OF 2
AVEMENT LAYOUT PLAN SHEET 1 OF 6
AVEMENT LAYOUT PLAN SHEET 2 OF 6
AVEMENT LAYOUT PLAN SHEET 3 OF 6
AVEMENT LAYOUT PLAN SHEET 4 OF 6
AVEMENT LAYOUT PLAN SHEET 5 OF 6
AVEMENT LAYOUT PLAN SHEET 6 OF 6
11 CARPARK BULK EARTHWORKS PLAN
EW BUILD BULK EARTHWORKS PLAN
11 CARPARK BULK EARTHWORKS SECTIONS SHEET 1 OF 2
11 CARPARK BULK EARTHWORKS SECTIONS SHEET 2 OF 2
EW BUILD CARPARK EARTHWORKS SECTIONS SHEET 1 OF 2
EW BUILD CARPARK EARTHWORKS SECTIONS SHEET 2 OF 2



CONTRACTOR SHALL CALL;

DIAL BEFORE YOU

DIG 1100

PRIOR TO COMMENCEMENT OF WORK TO OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS

SCALE 1:500

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REVW'D APP'D APP'D AMENDMENT
BY BY P.DIR

REFER COVER SHEET FOR NOTES UNLESS NOTED OTHERWISE

Date generated Drawn
L. DOAN/
Checked Approved
J. HILL/
L. MELVILLE

Structural & Civil
Engineering Consultant

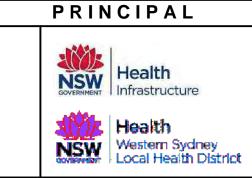
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PROJECT MANAGER



BLACKTOWN MT DRUITT HOSPITAL STAGE 1 EXPANSION AND SUB ACUTE BEDS PROJECTS

BLACKTOWN CAMPUS: BLACKTOWN ROAD, NSW2148
MT DRUITT CAMPUS: 75 RAILWAY STREET, NSW2770

DN AND BIN-BLACKTOWN INFRASTRUCTURE COVER SHEET

SCALE (@B1) AS NOTED DRAWING No.

PROJECT No. NB11472 BIN-CV-DG-DA0000

3. ALL PROPOSED CIVIL WORKS DESIGNED IN ACCORDANCE WITH AUSTRALIAN STANDARDS

 AS 1289 METHODS OF TESTING SOILS FOR ENGINEERING PURPOSES - AS 3798 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS - PAVEMENT DESIGN - 'APRG REPORT NO. 21 - A GUIDE TO THE DESIGN OF NEW PAVEMENTS AND LIGHT TRAFFIC'

 AUSTROADS GUIDE TO TRAFFIC ENGINEERING PRACTICE AS 2890.1 2004 PARKING FACILITIES - OFF STREET PARKING

- AS 1742 PARTS 1 TO 14 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS 1348 GLOSSARY OF TERMS ROADS AND TRAFFIC ENGINEERING

 AS 3600 CONCRETE STRUCTURES AS 1428 DESIGN FOR ACCESS AND MOBILITY

5. WORK SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS, UNLESS NOTED OTHERWISE.

6. IF EXISTING SITE CONDITIONS DIFFER FROM THE DESIGN PARAMETERS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. THE ENGINEER SHALL VERIFY AND APPROVE THE WORKS PRIOR TO CONSTRUCTION.

7. ALL MATERIALS SHALL COMPLY WITH WHAT IS SHOWN ON THE PROJECT DRAWINGS AND IN THE PROJECT SPECIFICATIONS.

8. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING SERVICES WITH ALL RELEVANT SERVICE AUTHORITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. A COPY OF THE LOCATIONS OF THE EXISTING SERVICES IS TO BE PROVIDED TO THE MANAGING CONTRACTOR BY THE SERVICES ENGINEER. CONTRACTOR TO NOTIFY MANAGING CONTRACTOR OF ANY POTENTIAL CLASHES.

9. THE CONTRACTOR SHALL VERIFY OFFSET PEGS AND BENCHMARK LEVELS, AND ADVISE THE MANAGING CONTRACTOR OF ANY DISCREPANCY PRIOR TO COMMENCING CONSTRUCTION.

10. THE CONTRACTOR SHALL VERIFY THE EXISTING LEVELS WHERE NEW WORKS ARE TO JOIN TO EXISTING WORKS, AND ADVISE THE MANAGING CONTRACTOR OF ANY DISCREPANCY PRIOR TO COMMENCING CONSTRUCTION.

11. A COPY OF "APPROVED" DRAWINGS AND ANY APPROVAL CONDITIONS ARE TO BE KEPT ON-SITE AT ALL TIMES. FURTHERMORE A COPY OF "CONSTRUCTION ISSUE" DRAWINGS ARE ALSO TO BE KEPT ON-SITE AT ALL TIMES.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING A SIGN AT EACH SITE ENTRANCE THAT VISIBLY DISPLAYS THE CONTRACTOR'S NAME. CONTACT DETAILS FOR COMPLAINT RESPONSE, AND CONTACT DETAILS FOR EMERGENCY CONTACT. ANY SIGNAGE SHALL BE ERECTED IN ACCORDANCE WITH DEPARTMENT OF DEFENCE

13. CONTRACTOR TO ALLOW FOR SITE ESTABLISHMENT COSTS, INCLUDING; STRIPPING, EXCLUSION FENCE, SILT FENCE, SANDBAGING ETC.

14. SAFETY FENCING SHALL BE PROVIDED AT RETAINING WALLS WITH VERTICAL DROPS OF 1.0m OR GREATER HANDRAILS TO BE PROVIDED ON STAIRS/STEPS AS REQUIRED TO ARCHITECT DETAIL & SPECIFICATION.

15. CONTRACTOR TO CONFIRM EXISTING STORMWATER NETWORK DETAILS (I.E. INVERTS, PITS ETC.) PRIOR TO

16. TRAFFIC GUARD RAIL TO BE SUPPLIED AND INSTALLED TO MANUFACTURER'S REQUIREMENTS. 'INGAL', ARMCO TYPE OR SIMILAR APPROVED.

17. ALL PROPOSED CAR PARKING BAYS TO BE 5.4m x 2.5m AS PER AS 2890.1, UNLESS NOTED OTHERWISE.

18. PROPOSED BATTERS TO BE TREATED AS SPECIFIED BY LANDSCAPE ARCHITECT.

19. THE STABILITY OF ALL BATTER SLOPES AND ALLOWABLE BEARING CAPACITIES SHALL BE CONFIRMED ON SITE BY A GEOTECHNICAL ENGINEER AT THE CONTRACTOR'S COST.

20. CONTRACTOR TO ENSURE ALL EXISTING BUILDINGS AND STRUCTURES ARE PROTECTED AT ALL TIMES. CONTRACTOR TO ADVISE MANAGING CONTRACTOR OF ANY POTENTIAL IMPACTS ON STRUCTURES PRIOR TO COMMENCING WORK.

SURVEY

REQUIREMENTS.

THE CIVIL DOCUMENTATION HAS BEEN PREPARED BASED ON SURVEY PREPARED BY CRAIG & RHODES DETAIL SURVEY & UNDERGROUND SERVICES LOCATIONS OVER BLACKTOWN DISTRICT HOSPITAL FOR HEALTH INFRASTRUCTURE NSW DRAWINGS 23910T02 ISSUE 05 DATED 8 APRIL 2012. THIS IS A COMPILATION OF THE TOPOGRAPHICAL SURVEY UNDERTAKE BY CRAIG & RHODES AND SERVICES INVESTIGATION BY DUDS.

INVESTIGATION HAS ALSO BEEN UNDERTAKEN BY DUDS ON 3 MAY 2012 OF THE TELSTRA SERVICES WITHIN THE FOOTWAY OF BLACKTOWN ROAD IN THE AREA OF THE TEMPORARY ENTRY CROSSINGS AND ON 15 MAY 2012 OF THE IT COMMUNICATIONS AND FIBRE OPTIC CABLING ADJACENT TO THE PROPOSED MENTAL HEALTH UNIT.

INVESTIGATION HAS ALSO BEEN UNDERTAKEN BY STOWE ELECTRICAL AS THE LEVEL 3 DESIGNER OF THE HIGH AND LOW VOLTAGE NETWORK. THIS INFORMATION IS PROVIDED AS PART OF THE SINCLAIR KNIGHT MERZ ELECTRICAL PACKAGE OF DOCUMENTS.

BULK EARTHWORKS NOTES

1. THESE NOTES SHALL BE READ IN CONJUNCTION WITH: A. GENERAL NOTES AND DISCLAIMERS FOR THE PROJECT

B. EROSION AND SEDIMENT CONTROL NOTES FOR THE PROJECT, AND C. SPECIFICATIONS FOR THE PROJECT.

2. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, COMPACTION AND DISPOSAL OF ALL EXCAVATED

3. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING A GEOTECHNICAL ENGINEER TO UNDERTAKE THE FOLLOWING: A. CARRY OUT LEVEL 1 SUPERVISION FOR ALL EARTHWORKS IN ACCORDANCE WITH AUSTRALIAN STANDARD

B. TO VERIFY THE STABILITY OF ALL BATTERS AS EXCAVATION PROCEEDS, AND

TO DESIGN ALL TEMPORARY BATTERS AND TEMPORARY SHORING. D. VERIFY THE STABILITY AND SUITABILITY OF EXCAVATIONS AND/OR FILLING, PARTICULARLY WITH RESPECT

TO EFFECTS ON EXISTING BUILDINGS OR STRUCTURES. E. TO CONFIRM THE ALLOWABLE BEARING CAPACITY OF FOUNDATION SOILS FOR RETAINING STRUCTURES.

4. ALL EARTHWORKS AREAS ARE TO BE LEFT IN A FREE DRAINING STATE.

STORMWATER DRAINAGE NOTES

1. THESE NOTES SHALL BE READ IN CONJUNCTION WITH: A. GENERAL NOTES AND DISCLAIMERS FOR THE PROJECT, AND

ROADWORKS NOTES FOR THE PROJECT. C. SPECIFICATIONS FOR THE PROJECT.

2. STORMWATER DRAINAGE PIPES UP TO 3000 SHALL BE uPVC PIPES (CLASS 2).

3. STORMWATER DRAINAGE PIPES 300Ø OR GREATER SHALL BE RC-RRJ (CLASS 2).

4. OUTLET LOCATIONS AND DETAILS ARE TO BE CONFIRMED ON SITE BY THE MANAGING CONTRACTOR PRIOR TO THE COMMENCEMENT OF STORMWATER DRAINAGE CONSTRUCTION.

5. ALL PROPOSED STORMWATER WORKS DESIGNED IN ACCORDANCE WITH A. AUSTRALIAN RAINFALL AND RUNOFF (1987 EDITION) VOLUMES 1 AND 2. B. AS 3500 NATIONAL PLUMBING CODE PART 3 — STORMWATER DRAINAGE.

6. CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR ALL BUILDING DOWN PIPE LOCATIONS AND ALLOW FOR CONNECTION FROM DOWN PIPE TO IN-GROUND STORMWATER NETWORK

PAVEMENT NOTES

1. THESE NOTES SHALL BE READ IN CONJUNCTION WITH:

GENERAL NOTES AND DISCLAIMERS FOR THE PROJECT ROADWORKS NOTES FOR THE PROJECT, AND

C. SIGNS AND PAVEMENT MARKING NOTES FOR THE PROJECT.

2. PAVEMENT SHALL BE BOXED OUT TO THE DEPTHS HAS SHOWN ON THE PAVEMENT DRAWINGS, AND SUBGRADE TESTING IS TO BE UNDERTAKEN. SUBGRADE TESTING RESULTS ARE TO BE FORWARDED TO THE MANAGING CONTRACTOR FOR CONFIRMATION OF PAVEMENT DEPTHS PRIOR TO PAVEMENT CONSTRUCTION COMMENCING.

3. THE PAVEMENT SUBGRADE SHALL EXTEND 100mm MINIMUM BELOW, AND 150mm BEHIND THE REAR OR ANY KERB / KERB AND GUTTER ON ALL PAVEMENTS.

4. CONTRACTOR TO ALLOW FOR SITE ESTABLISHMENT COSTS, INCLUDING; STRIPPING, EXCLUSION FENCE, SILT FENCE, SANDBAGING ETC.

5. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND IDENTIFY POTENTIAL CLASHES AND NOTIFY THE MANAGING CONTRACTOR.

6. INTERNAL ROADS TO HAVE A DESIGN LIFE OF 40 YEARS.

LINE MARKING AND SIGNAGE NOTES

1. GENERALLY PAVEMENT MARKING SHALL BE THERMOPLASTIC TYPE LINEMARKING PAINT IN ACCORDANCE WITH RMS "INTERIM GUIDE TO SIGNS AND MARKINGS" AND WHERE APPLICABLE A.S. 1742.2 UNLESS OTHERWISE APPROVED ON THE ENGINEERING PLANS.

2. THE RMS DOCUMENT SHALL SUPERSEDE A.S. 1742.2 WHERE DISCREPANCIES BETWEEN THE DOCUMENTS OCCUR.

3. SIGHT DISTANCE WARRANTS SHALL BE IN ACCORDANCE WITH AUSTROADS AND WHERE ON CLASSIFIED ROADS THE RMS REQUIREMENTS FOR CENTRAL PAVEMENT MARKING.

4. LINE TYPE WARRANTS SHALL BE IN ACCORDANCE WITH NOTE 1.

5. ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH A.S., 1742.2 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) PART 2 TRAFFIC CONTROL DEVICES FOR GENERAL USE.

6. THESE NOTES SHALL BE READ IN CONJUNCTION WITH: A. GENERAL NOTES AND DISCLAIMERS FOR THE PROJECT

B. ROADWORKS NOTES FOR THE PROJECT, AND C. PAVEMENT NOTES FOR THE PROJECT.

ROADWORKS NOTES

1. THESE NOTES SHALL BE READ IN CONJUNCTION WITH:

GENERAL NOTES AND DISCLAIMERS FOR THE PROJECT

PAVEMENT NOTES FOR THE PROJECT, AND C. SIGNS AND PAVEMENT MARKING NOTES FOR THE PROJECT.

2. PAVEMENT SURFACING SHALL BE IN ACCORDANCE WITH APRG REPORT NO. 21 - 'A GUIDE TO THE DESIGN OF NEW PAVEMENTS FOR LIGHT TRAFFIC'.

3. ALL NEW WORK SHALL NEATLY JOIN TO AND MATCH EXISTING WORK.

GEOTECHNICAL NOTES

THE CIVIL DOCUMENTATION HAS BEEN PREPARED BASED ON GEOTECHNICAL INVESTIGATION UNDERTAKEN BY COFFEY GEOTECHNICS — GEOTECHNICAL INVESTIGATION AND PRELIMINARY CONTAMINATION ASSESSMENT PROPOSED ADDITIONS TO BLACKTOWN HOSPITAL, BLACKTOWN FOR NSW HEALTH INFRASTRUCTURE NSW GEOTLCOV24207AB-AB DATED 10 MAY 2012.

SERVICES NOTES

1. OTHER CONSULTANTS ARE RESPONSIBLE FOR THE COORDINATION OF ALL EXISTING AND PROPOSED UTILITY SERVICES FOR THIS PROJECT.

STRUCTURAL NOTES

REFER TO ROBERT BIRD GROUP (RBG) STRUCTURAL DRAWINGS DETAILS.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:

(A) LOCAL AUTHORITY REQUIREMENTS, (B) EPA — POLLUTION CONTROL MANUAL FOR URBAN STORMWATER, (C) DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT MANUAL—"URBAN EROSION & SEDIMENT

(D) LANDCOM - MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION

2. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE WORKS. SHOULD THE CONTRACTOR STAGE THESE WORKS THEN THE DESIGN MAY REQUIRE TO BE MODIFIED. VARIATION TO THESE DETAILS MAY REQUIRE TO BE APPROVED BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADOPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.

3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE MANAGING CONTRACTOR AND THE LOCAL AUTHORITY.

4. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.

5. MINIMIZE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.

6. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.

7. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS.

8. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.

9. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE APPROVED CONSTRUCTION ENTRY/EXIT ROUTE.

10. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.

11. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.

12. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.

13. ALL DISTURBED AREAS SHALL BE REVEGETATED AS SOON AS THE RELEVANT WORKS HAVE BEEN COMPLETED.

14. KERB INLET SOCKS (OR OTHER MEASURE) TO BE PROVIDED ON ALL INLET PITS IMMEDIATELY

DOWNSTREAM OF CONSTRUCTION ACTIVITIES OR STOCKPILES.

SCALE 1:500

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PROJECT MANAGER





PRINCIPAL



SUB ACUTE BEDS PROJECTS BLACKTOWN CAMPUS: BLACKTOWN ROAD, NSW2148 MT DRUITT CAMPUS: 75 RAILWAY STREET, NSW2770

GENERAL NOTES

CIVIL

SCALE (@B1) AS NOTED	DRAWING No.
PROJECT No. NB11472	BIN-CV-DG-DA0001

