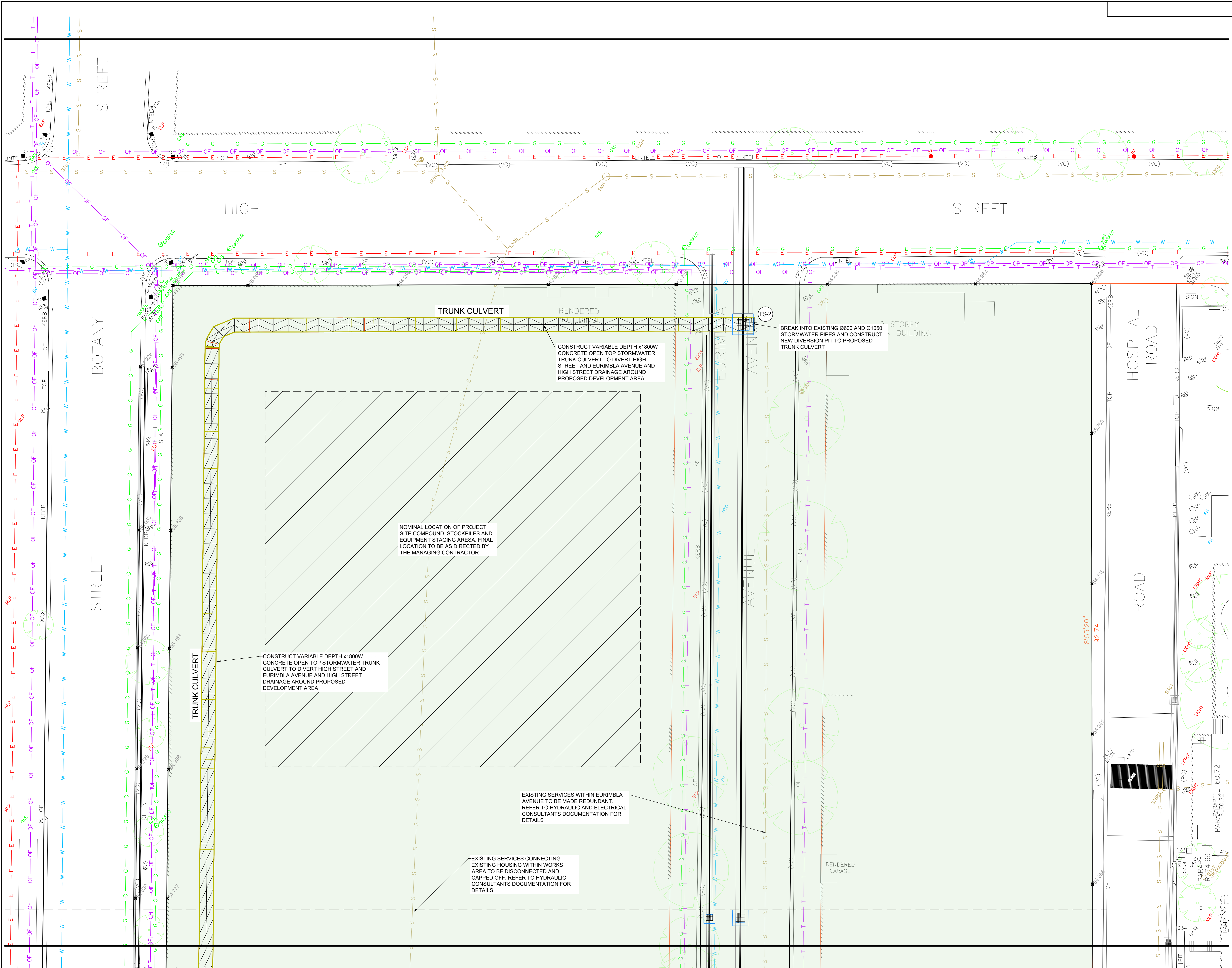




NOTE:
REFER TO DRAWING SERIES
900 FOR STORMWATER
DRAINAGE GRADING DETAILS

enstruct
enstruct group pty ltd
Level 4, 2 Glen Street
Milsoms Point NSW 2061
Australia
Telephone (02) 8904 1444
Facsimile (02) 8904 1555
http://www.enstruct.com.au

NOTE
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DO NOT SCALE THIS DRAWING

ISSUE	DATE	FOR
B	17.09.29	VM ISSUE FOR 70%
C	17.10.11	70% ISSUE
D	17.11.13	80% ISSUE
E	17.11.30	85% ISSUE
F	18.01.31	INFORMATION
G	06.02.18	100% SD ISSUE
H	28.02.18	100% SD ISSUE
I	19.03.18	100% SD ISSUE UPDATE

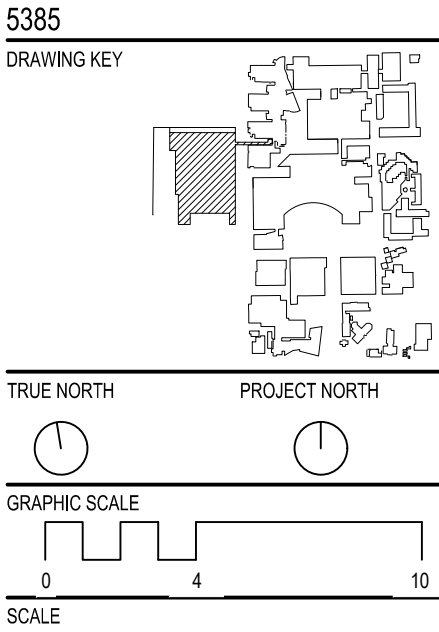
- PROPOSED BUILDING FOOTPRINT
 - CONCRETE VEHICULAR PAVEMENT
 - CONCOURSE PAVEMENT
 - PEDESTRIAN PAVEMENT
 - LANDSCAPE AREAS
 - EXISTING ROAD RECONSTRUCTION
 - PROPOSED SITE AREA
- INCLUDES STRIP TOPSOIL AND DEMOLISH WITHIN EXISTING SITE TO 1M BELOW EXISTING SITE LEVELS
- SW PROPOSED STORMWATER DRAINAGE

CONSTRUCTION WORKS

CONSULTANT
CONSULTANT
CONSULTANT
CONSULTANT
CONSULTANT
PROJECT MANAGER
CLIENT



CLIENT NUMBER
PROJECT
POW - REDEVELOPMENT ACUTE SERVICES BUILDING
RANDWICK NSW AUSTRALIA
ENSTRUCT PROJECT NUMBER

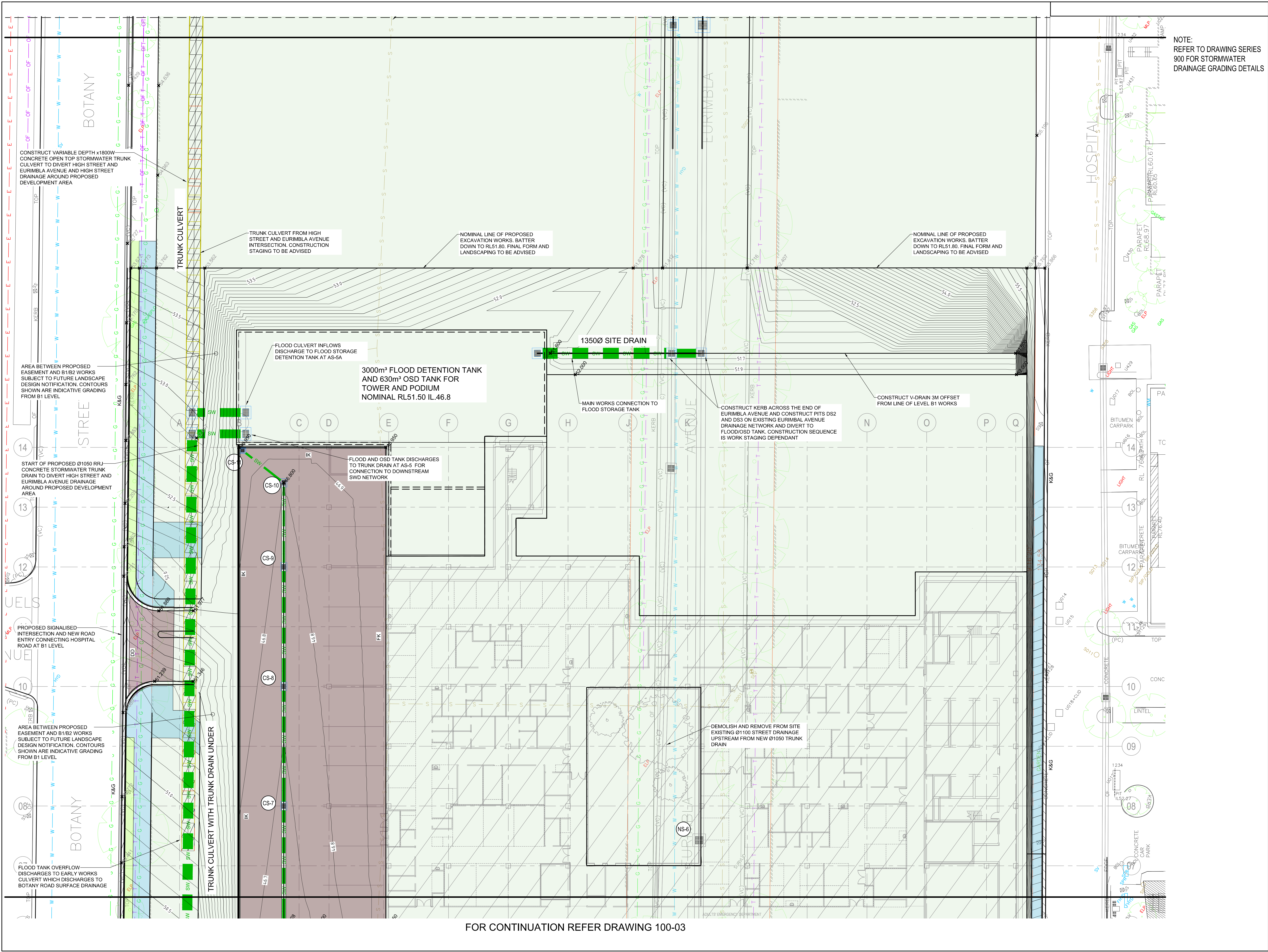


FOR INFORMATION

DRAWING
STATUS
SITEWORKS AND GRADING
LEVEL B2 - PLAN SHEET 1

DRAWING NUMBER	ISSUE
RCR-ENS-CV-50-DWG-100-01	I

FOR CONTINUATION REFER DRAWING 100-02



FOR CONTINUATION REFER DRAWING 100-03

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PROPOSED BUILDING
FOOTPRINT

CONCRETE VEHICULAR
PAVEMENT

CONCOURSE PAVEMENT

PEDESTRIAN PAVEMENT

LANDSCAPE AREAS

EXISTING ROAD
RECONSTRUCTION

PROPOSED
SITE AREA

INCLUDES STRIP TOPSOIL AND
DEMOLISH WITHIN EXISTING SITE TO 1M
BELOW EXISTING SITE LEVELS

PROPOSED STORMWATER
DRAINAGE

CONSTRUCTION WORKS

CONSULTANT

CONSULTANT

CONSULTANT

CONSULTANT

CONSULTANT

PROJECT MANAGER

CLIENT



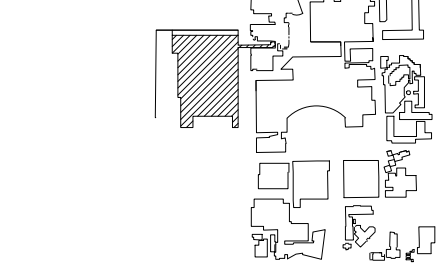
CLIENT NUMBER

PROJECT

POW - REDEVELOPMENT ACUTE
SERVICES BUILDING
RANDWICK NSW AUSTRALIA
ENSTRUCT PROJECT NUMBER

5385

DRAWING KEY



TRUE NORTH

PROJECT NORTH

GRAPHIC SCALE

SCALE

1:200@B1

DO NOT SCALE

FOR INFORMATION

DRAWING

SITWORKS AND GRADING

LEVEL B2 - PLAN SHEET 2

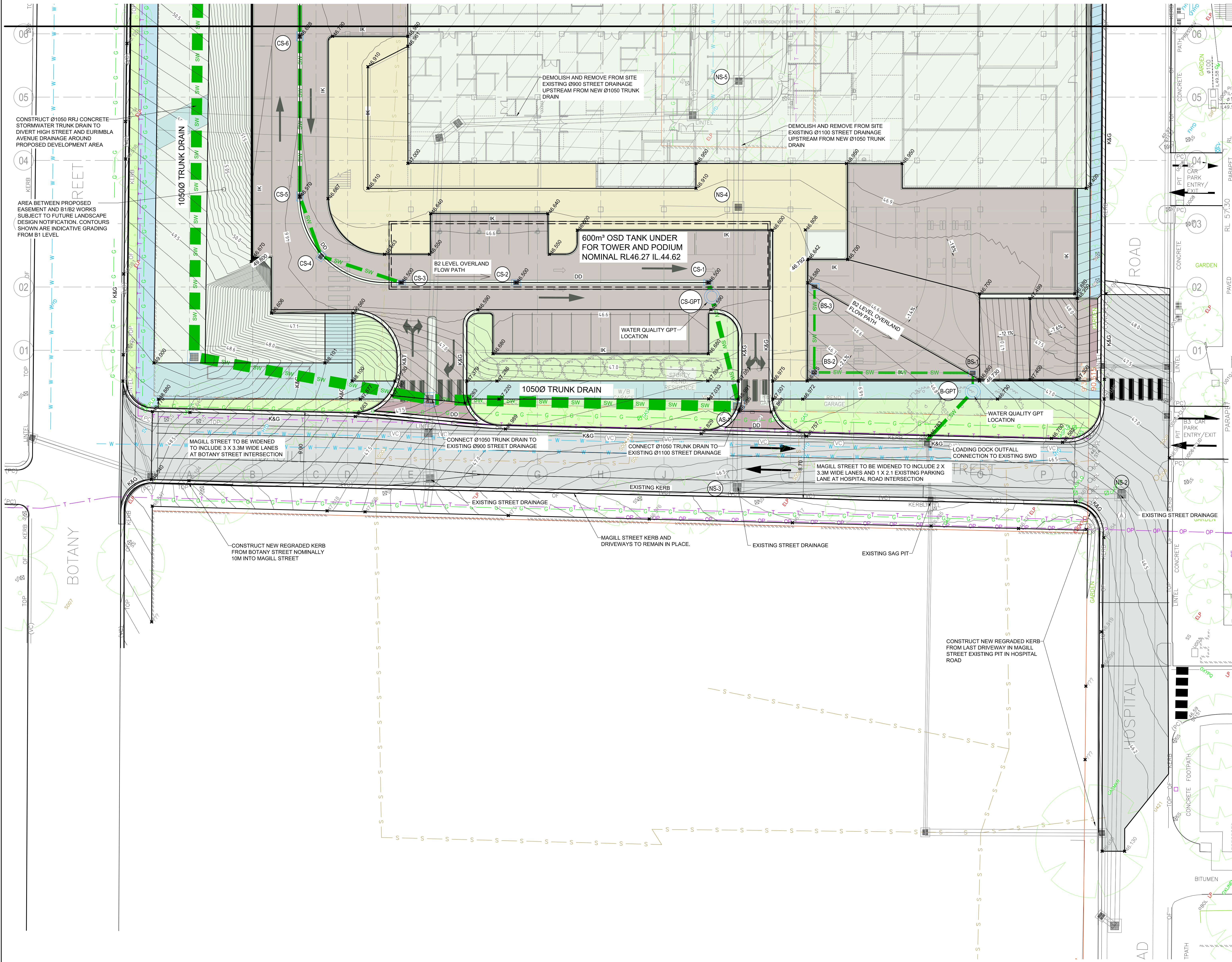
DRAWING NUMBER

ISSUE

RCR-ENS-CV-50-DWG-100-02

I

FOR CONTINUATION REFER DRAWING 100-02



NOTE:
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DRAINAGE GRADING DETAILS

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Level 4, 2 Glen Street
Milsions Point NSW 2061
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B	17.09.29	VM ISSUE FOR 70%
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F	18.01.31	INFORMATION
G	06.02.18	100% SD ISSUE
H	28.02.18	100% SD ISSUE
I	19.03.18	100% SD ISSUE UPDATE

- PROPOSED BUILDING FOOTPRINT
- CONCRETE VEHICULAR PAVEMENT
- CONCOURSE PAVEMENT
- PEDESTRIAN PAVEMENT
- LANDSCAPE AREAS
- EXISTING ROAD RECONSTRUCTION
- PROPOSED SITE AREA
- INCLUDES STRIP TOPSOIL AND DEMOLISH WITHIN EXISTING SITE TO 1M BELOW EXISTING SITE LEVELS
- SW PROPOSED STORMWATER DRAINAGE

CONSTRUCTION WORKS

CONSULTANT

CONSULTANT

CONSULTANT

CONSULTANT

CONSULTANT

PROJECT MANAGER

CLIENT

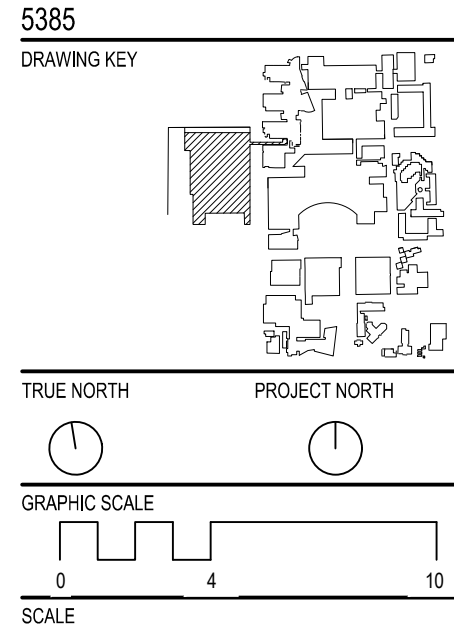
NSW Health
GOVERNMENT Infrastructure

CLIENT NUMBER

PROJECT

POW - REDEVELOPMENT ACUTE SERVICES BUILDING
RANDWICK NSW AUSTRALIA

ENSTRUCT PROJECT NUMBER



1:200@B1 DO NOT SCALE
STATUS

FOR INFORMATION

DRAWING
SITEWORKS AND GRADING
LEVEL B2 - PLAN SHEET 3

DRAWING NUMBER
RCR-ENS-CV-50-DWG-100-03

ISSUE
1



Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Site Bulk Strip	1.000	1.000	32176.830sq.m	32176.830 Cu. M.	0.000 Cu. M.	32176.830 Cu. M.<Cut>
Totals			32176.830sq.m	32176.830 Cu. M.	0.000 Cu. M.	32176.830 Cu. M.<Cut>

Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Red	-1.000	-1.000

NOTE:
THE VOLUMES REPRESENTED ON THIS PLAN ARE
BASED ON THE FOLLOWING CRITERIA:

- STRIP 1.0m FROM FULL EXTENT OF THE SITE AREA
- WORKS WITHIN SITE BOUNDARY ONLY BASED ON SUPPLIED SURVEY EXTRAPOLATED ACROSS SITE BETWEEN STREET FRONTAGES

NOTE
CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR
TO COMMENCEMENT OF WORK OR PREPARATION OF 4:30 DRAWINGS.
DO NOT SCALE THIS DRAWING.

ISSUE	DATE	FOR
B	17.08.26	1M ISSUE FOR 70%
C	17.10.11	70% ISSUE
D	17.11.13	85% ISSUE
E	17.11.30	95% ISSUE
F	06.02.18	100% SD ISSUE
G	23.02.18	100% SD ISSUE UPDATE
H	19.03.18	100% SD ISSUE UPDATE

CONSTRUCTION WORKS

CONSULTANT

CONSULTANT

CONSULTANT

CONSULTANT

CONSULTANT

PROJECT MANAGER

CLIENT



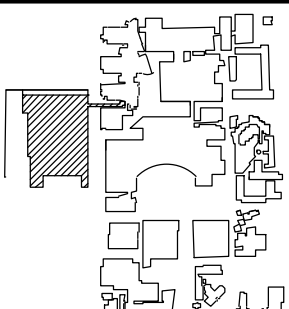
CLIENT NUMBER

PROJECT

POW - REDEVELOPMENT ACUTE
SERVICES BUILDING
RANDWICK NSW AUSTRALIA
ENSTRUCT PROJECT NUMBER

5385

DRAWING KEY



TRUE NORTH

PROJECT NORTH

GRAPHIC SCALE

SCALE

1:500@B1
STATUS

DO NOT SCALE
FOR INFORMATION

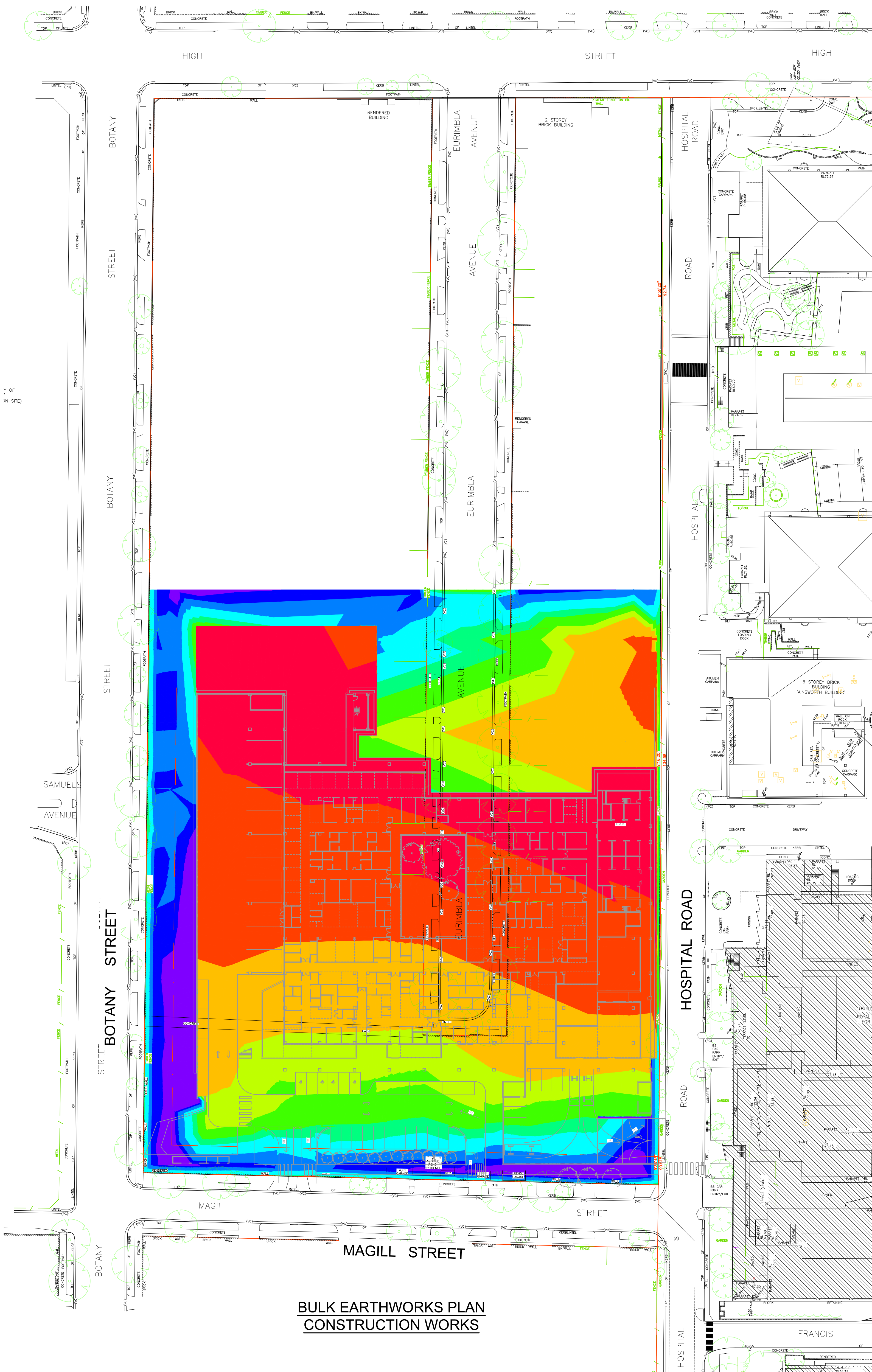
DRAWING
BUILDING 50
BULK EARTHWORKS PLAN
EARLY WORKS

DRAWING NUMBER

RCR-ENS-CV-50-DWG-300-01

ISSUE

H



BULK EARTHWORKS PLAN
CONSTRUCTION WORKS

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Site Bulk B2	1.000	1.000	17552.707sq.m	42409.372 Cu. M.	2216.092 Cu. M.	40193.280 Cu. M.<Cut>
Totals			17552.707sq.m	42409.372 Cu. M.	2216.092 Cu. M.	40193.280 Cu. M.<Cut>

Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Red	-7.802	-5.000
2	Orange	-5.000	-2.900
3	Yellow	-2.900	-1.500
4	Light Green	-1.500	-1.000
5	Green	-1.000	-0.500
6	Light Blue	-0.500	-0.200
7	Blue	-0.200	0.300
8	Dark Blue	0.300	0.700
9	Very Dark Blue	0.700	0.900
10	Purple	0.900	3.200

NOTE:
THE VOLUMES REPRESENTED ON THIS PLAN ARE
BASED ON THE FOLLOWING CRITERIA:

- STRIP 1.0m FROM FULL EXTENT OF THE WORKS AREA.
- EXCAVATE FOR B2 LEVEL AND NORTH FLOOD AND OSD TANK AT B2 LEVEL FSL -0.3m
- WORKS WITHIN SITE BOUNDARY ONLY BASED ON SUPPLIED SURVEY EXTRAPOLATED ACROSS SITE BETWEEN STREET FRONTAGES

NOTE		
CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORK OR PREPARATION OF SHOP DRAWINGS. DO NOT SCALE THIS DRAWING.		
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E	17.11.30	90% ISSUE
F	06.02.18	100% SD ISSUE
G	23.02.18	100% SD ISSUE UPDATE
H	19.03.18	100% SD ISSUE UPDATE

CONSTRUCTION WORKS

CONSULTANT
CONSULTANT
CONSULTANT
CONSULTANT
CONSULTANT
PROJECT MANAGER
CLIENT



CLIENT NUMBER
PROJECT

POW - REDEVELOPMENT ACUTE
SERVICES BUILDING
RANDWICK NSW AUSTRALIA
ENSTRUCT PROJECT NUMBER

5385
DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE

0 10 25
SCALE

1:500@B1 DO NOT SCALE
STATUS

FOR INFORMATION

DRAWING
BUILDING 50
BULK EARTHWORKS PLAN
PROPOSED BUILDING

DRAWING NUMBER	ISSUE
RCR-ENS-CV-50-DWG-301-01	H

DESIGN FINISHED SURFACE LEVEL

170mm THICK CONCRETE (32MPa) WITH SL92 MESH TOP AND BTM (50 COVER)

200MM COMPACTED THICKNESS SUBBASE (DGB 20) 98% STANDARD DRY COMPACTION

COMPACTED SUBGRADE, MINIMUM SUBGRADE CBR $\geq$ 3% TO 98% SMDD COMPACTION

DESIGN FINISHED SURFACE LEVEL

GRANITIC PAVING REFER TO LANDSCAPE ARCHITECTS PLANS

30mm BEDDING SAND

125mm 32MPa CONCRETE WITH 15mm MESH TOP (40 COVER)

MIN 50MM COMPACTED THICKNESS SUBBASE (DGB 20) 98% STANDARD DRY COMPACTION

COMPACTED SUBGRADE, MINIMUM SUBGRADE CBR $\geq 3\%$ TO 98% SMD COMPACTION

125mm 32MPa CONCRETE WITH SL
MESH TOP (40 COVER)

MIN 50MM COMPACTED THICKNESS
SUBBASE (DGB 20) 98% STANDARD
DRY COMPACTION

COMPACTED SUBGRADE. MINIMUM
SUBGRADE CBR $\geq$ 3% TO 98% SMD
COMPACTION

DESIGN FINISHED SURFACE LEVEL

- 25 AC10 WEARING COURSE
- 50 AC10 ON AR450 BINDER
- 250mm COMPACTED THICKNESS BASECOURSE (DGS 20)
- 200mm COMPACTED THICKNESS SUBBASE (DGS 40)
- COMPACTED SUBGRADE. MINIMUM SUBGRADE CBR $\geq$ 3% TO 98% SMDC COMPACTION

1. PAVEMENT DETAIL SUBJECT TO FINAL DESIGN AND LANDSCAPE TREATMENT SCHEDULES.
2. ASSUMED DESIGN VEHICLE IS A 30t (GROSS VEHICLE WEIGHT) PORTABLE CRANE WITH A HEAVIEST AXLE LOAD OF 20t.
3. TOTAL REPETITIONS = 3.0×10^5 .
4. PAVEMENT IS FOR VEHICLE ACCESS/ EGRESS ONLY.
5. ASSUMES MINIMUM SUBGRADE CBR 3% TO BE CONFIRMED BY GEOTECH.
6. MAXIMUM SPACING BETWEEN EXPANSION JOINTS = 10m
7. PAVER SPECIFICATION TO BE VERIFIED BY LANDSCAPE ARCHITECT.
8. SUBSOIL DRAINAGE, WATER SERVICE, GAS SERVICE, ELECTRICAL SERVICE AND LIGHT POLES SHOWN FOR CONTINUITY ONLY.

1. ALL EXPOSED EDGES TO BE ROUNDED TO 20mm RADIUS EXCEPT THAT THE BACK OF KERB ARE ROUNDED TO A MAXIMUM OF 5mm RADIUS.
2. CONCRETE SURFACES ARE TO BE SMOOTH WOOD/STEEL FLOAT FINISH.
3. PROVIDE BEDDING 'd' WITH MIN. 100mm THICK LAYER OF DG20 COMPACTED TO 98% MODIFIED MAX. DRY DENSITY. BASE SHALL EXTEND AT LEAST 150mm BEHIND THE BACK OF KERB.
4. KERB NEXT TO CONCRETE/TILED FOOTPATH SHALL BE PROVIDED WITH 10mm WIDE MASTIC JOINT NEXT TO FOOTPATH.
5. MINIMUM CONCRETE STRENGTH TO BE 32MPa.
6. MASTIC EXPANSION JOINTS TO BE PLACED AT NO MORE THAN 6m AND NOT LESS THAN 4m INTERVALS.
7. CONCRETE TO BE PLACED AT A MINIMUM SLUMP OF 80mm.
8. REFER TO RANDWICK COUNCIL STANDARD DRAWINGS FOR ADDITIONAL INFORMATION

Figure 1 consists of two diagrams, STEP 1 and STEP 2, illustrating the installation of a round closed-cell polyurethane backing rod. In STEP 1, a vertical hole is shown with a depth labeled 'DEPTH' and a diameter labeled '3-5mm'. A 'ROUND CLOSED-CELL POLYURETHANE BACKING ROD' is being inserted into the hole. In STEP 2, the backing rod is fully seated at the bottom of the hole. A 'SEALANT' bead is applied around the top edge of the hole, with a width of '2mm' and a length labeled 'W'. A 'BOND BREAKER TAPE' is applied over the rod, with a width labeled 'W'. The rod is labeled 'BACKING ROD'.

The diagram illustrates a cross-section of a concrete joint between two slabs. The joint is filled with a material labeled 'SEALANT'. A 'BOND BREAKER TAPE' is applied to the bottom of the joint. Dimensions are indicated: '2mm' for the sealant thickness on the left, '4-5mm' for the sealant thickness on the right, 'W' for the width of the joint, and 'D' for the depth of the joint. The slabs are labeled 'SLAB 1 (FIRST POUR)' and 'SLAB 2 (SECOND POUR)'.

Figure 10: Detail of a slab penetration. The diagram shows a cross-section of a concrete slab with a vertical penetration. The slab thickness is 13mm. The penetration has a top width of 20mm and a bottom width of 10mm. A 5mm gap is shown between the slab and the penetration. The text "REDUCE TO 10mm WIDE AT SLAB PENETRATIONS" is present.

STEPS:

1. CLOSED CELL POLYURETHANE (FULL DEPTH) CUT HOLES IN FILLER TO FIT CLOSELY AROUND DOWELS.
2. FROM GROOVE IN SLAB 2 AND AGAINST FACE OF SLAB 1.
3. JET WASH AND DRY GROOVE AFTER SLAB CURING PERIOD WITH FOSROC PRIMER10.
4. BOND BREAKER TAPE.
5. INSTALLATION SEALANT PARBURY EMER-ROADSEAL OR APPROVED EQUIVALENT WITH MOVEMENT ACCOMMODATION FACTOR $\geq 50\%$ IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

150
COG
TO SLAB.
U.N.O.

1 N12 HORIZ. CORNER BAR TOP & BOTTOM. LAP 400 WHERE REQUIRED. TYPICAL. U.N.O.

150

170

PROPOSED SLAB
AS PER PAVEMENT DETAIL

Figure 10 is a technical cross-section diagram of a curb and gutter. The diagram shows a concrete curb on the left, with a height of 150mm. The top of the curb is 25mm wide. The gutter is formed by a sloped curb on the right, with a minimum depth of 100mm. The gutter is 40mm deep at the curb lip and 75mm deep at the bottom. The gutter width is 450mm. The diagram also shows the 'PAVEMENT AS SPECIFIED' on the left, the 'EXTEND EDGE OF KERB CROSSING TO LINE OF PROPOSED FOOTPATH AND GRADE TO LEVELS SHOWN ON PLAN' on the right, the 'OUTLINE OF KERB BEYOND' on the right, the 'SETOUT POINT AT LIP OF KERB' on the right, the 'SETOUT POINT AT LIP OF KERB' on the right, and the 'SL72 FABRIC CENTRAL' on the right.

SHOWN AS 'TJ' ON "TYPICAL JOINT PLAN FOR
FOOTPATHS" DETAIL
SCALE 1:20

SHOWN AS 'EJ' ON "TYPICAL JOINT PLAN
FOR FOOTPATHS" DETAIL
SCALE 1:20

SAWCUT EXISTING PAVEMENT

EXISTING PAVEMENT

150

300

PAVEMENT AS SPECIFIED

LIMIT OF WORKS

COAT VERTICAL SAWCUT FACE WITH TWO COATS OF BITUMEN, SCARBLE EXISTING AC, TACK COAT AND RESURFACE

Diagram illustrating the cross-section of a 4-lane road. The total width is $W \times 4$. The width of each lane is $W \times 1$. The road is divided into four lanes by three vertical lines. The outer edges are labeled 'EJ' and the inner edges are labeled 'TJ'. The width of the road is labeled 'W x 4' and the width of each lane is labeled 'W x 1'.

SHOWN AS 'CJ2' ON PLAN
SCALE 1:10

SHOWN AS 'CJ1' ON PLAN
SCALE 1:10

CONSTRUCTION AT POUR END
SHOWN AS 'EJ' ON PLAN
SCALE 1:10

Technical drawing of a concrete pavement cross-section. The drawing shows a concrete slab with a fabric reinforcement layer. Dowels are shown at the bottom of the slab. A sealant reservoir and sealant are shown at the joint. A bond breaker is shown at the joint. The drawing includes labels for 'DOWELS 380 x 450 LONG AT 300 CTRS. REFER CONCRETE PAVEMENT NOTES', 'FABRIC AS SPECIFIED', 'SEALANT RESERVOIR AND SEALANT REFER DETAIL 'A' (NO INITIAL SAWCUT IS REQUIRED)', and 'BOND BREAKER REFER CONCRETE PAVEMENT NOTES'. Dimensions are indicated as 'SPECIFIED' for the slab thickness and '11' for the joint width.

COVER (WITH SUITABLE LIFTING HOLES) OR GRATE & FRAME AS SPECIFIED. INSTALL TO MANUFACTURER SPECIFICATION

PAVEMENT AS SPECIFIED

FABRIC WHERE SPECIFIED

CONSTRUCT SLIP JOINT

PIT WALL REINFORCED AS SPECIFIED

SUBGRADE LEVEL

900

500

90 MIN

1500