

- LEGEND**
- PROPOSED EXTENT OF AC
 - PROPOSED FOOTPATH / SHARED ZONE
 - PROPOSED BIO RETENTION
 - PROPOSED VEHICLE CROSSING TO COUNCIL STANDARDS
 - PROPOSED ARCHITECT'S BUILDING
 - K&G
 - PROPOSED KERB & GUTTER
 - PROPOSED DISH DRAIN
 - KO
 - PROPOSED KERB ONLY
 - VC
 - PROPOSED VEHICLE CROSSING
 - 55.40
 - PROPOSED MAJOR CONTOUR
 - 55.0
 - PROPOSED MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING LEVELS
 - 56.0 (EX)
 - RL 56.0
 - PROPOSED LEVELS
 - PROPOSED KERB RAMP
 - PROPOSED BOLLARDS
 - PROPOSED STREET LIGHT POLE
 - EXISTING TITLES / BOUNDARY
 - EXISTING EASEMENTS/ STRATUMS

NOTE:
LIGHTING AND ELECTRICAL POLE
CONFIGURATION TO BE
CONFIRMED.



NSW GOVERNMENT
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 6256

granted on the 18 December 2014

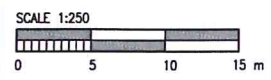
Signed AWaban

Sheet No. 9 of 16

**PRINT DRAWING
IN COLOUR**



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Rev	Revision Description	By	App	Date
1	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LWM	11.02.14
2	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LWM	17.02.14
3	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LWM	05.03.14
4	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LWM	11.06.14
5	ISSUED FOR DEVELOPMENT APPROVAL	ACH	RL	27.08.14

Rev	Revision Description	By	App	Date
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3	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LWM	05.03.14
4	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LWM	11.06.14
5	ISSUED FOR DEVELOPMENT APPROVAL	ACH	RL	27.08.14

Structural, Civil & Construction
Engineering Consultant

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ACH 010 582 216

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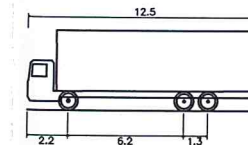
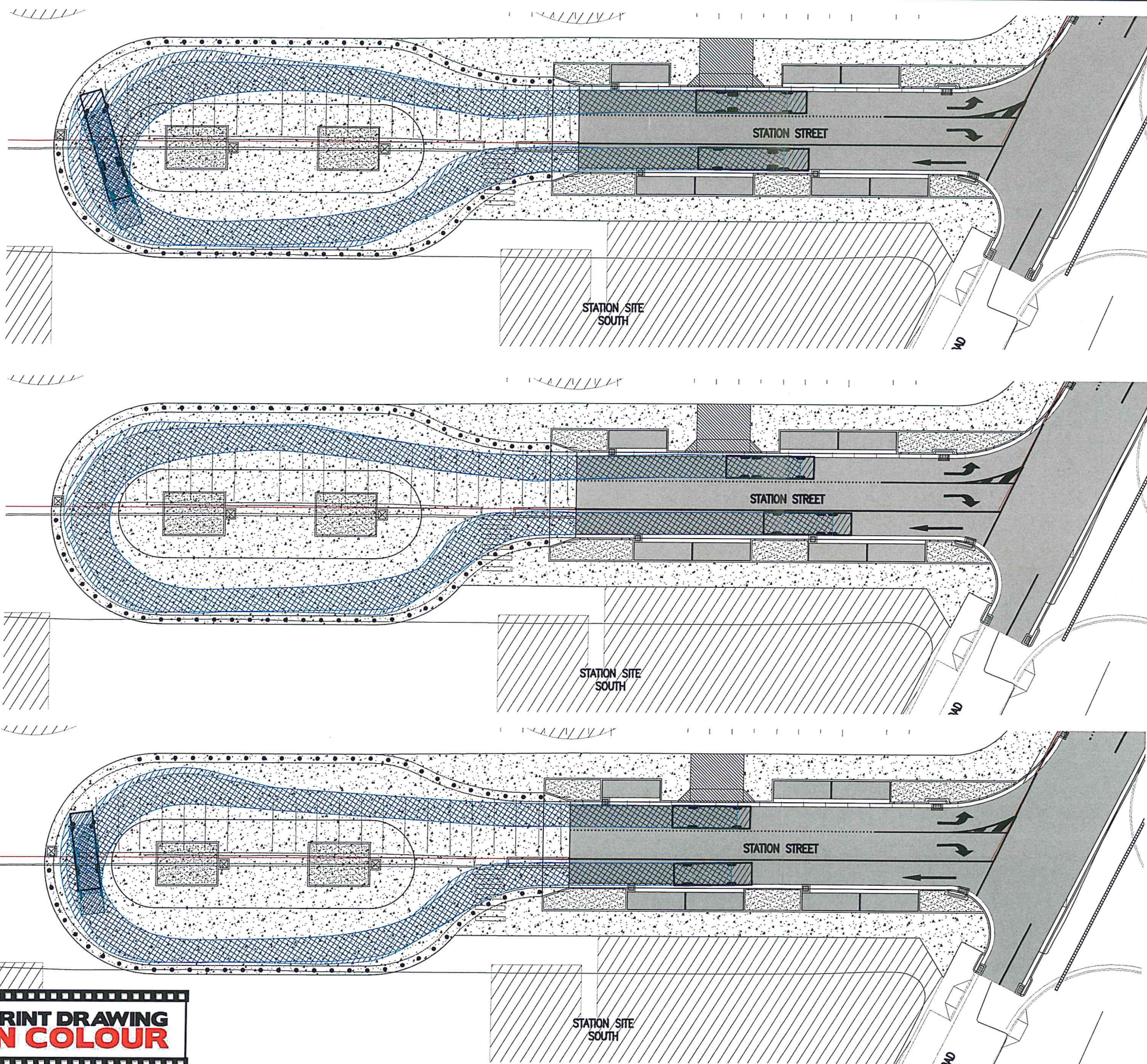


Title
SITE LAYOUT AND GRADING PLAN

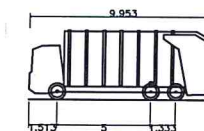
Project
**NORTH RYDE STATION SITE NORTH
DEVELOPMENT APPROVAL**

NOT FOR CONSTRUCTION			
Date	27.08.14	Designer	L. RUSSELL
Scale at A1	AS SHOWN	Drawn	SMANWADHAR
Job Number	13656	Drawing Number	C3-02
		Principle/Project Owner	R. LUCKS
		Revision	5

1 2 3 4 5 6 7 8 9 10 11 12



Single Unit Truck/Bus (12.5 m)
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.490m
Track Width 2.500m
Lock to Lock Time 6.00s
Curb to Curb Turning Radius 12.500m



Iveco ACCO 6x4
Overall Length 9.953m
Overall Width 2.500m
Overall Body Height 3.751m
Min Body Ground Clearance 0.304m
Track Width 2.500m
Lock to Lock Time 4.00s
Curb to Curb Turning Radius 9.903m



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Signed A. Alurhan

Sheet 10 of 16

Service Vehicle (8.8 m)
Overall Length 8.800m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.427m
Track Width 2.500m
Lock to Lock Time 4.00s
Curb to Curb Turning Radius 12.500m

**PRINT DRAWING
IN COLOUR**



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SCALE 1:250
5 0 5 10m

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Web Site: www.robertbird.com

Client
URBAN GROWTH

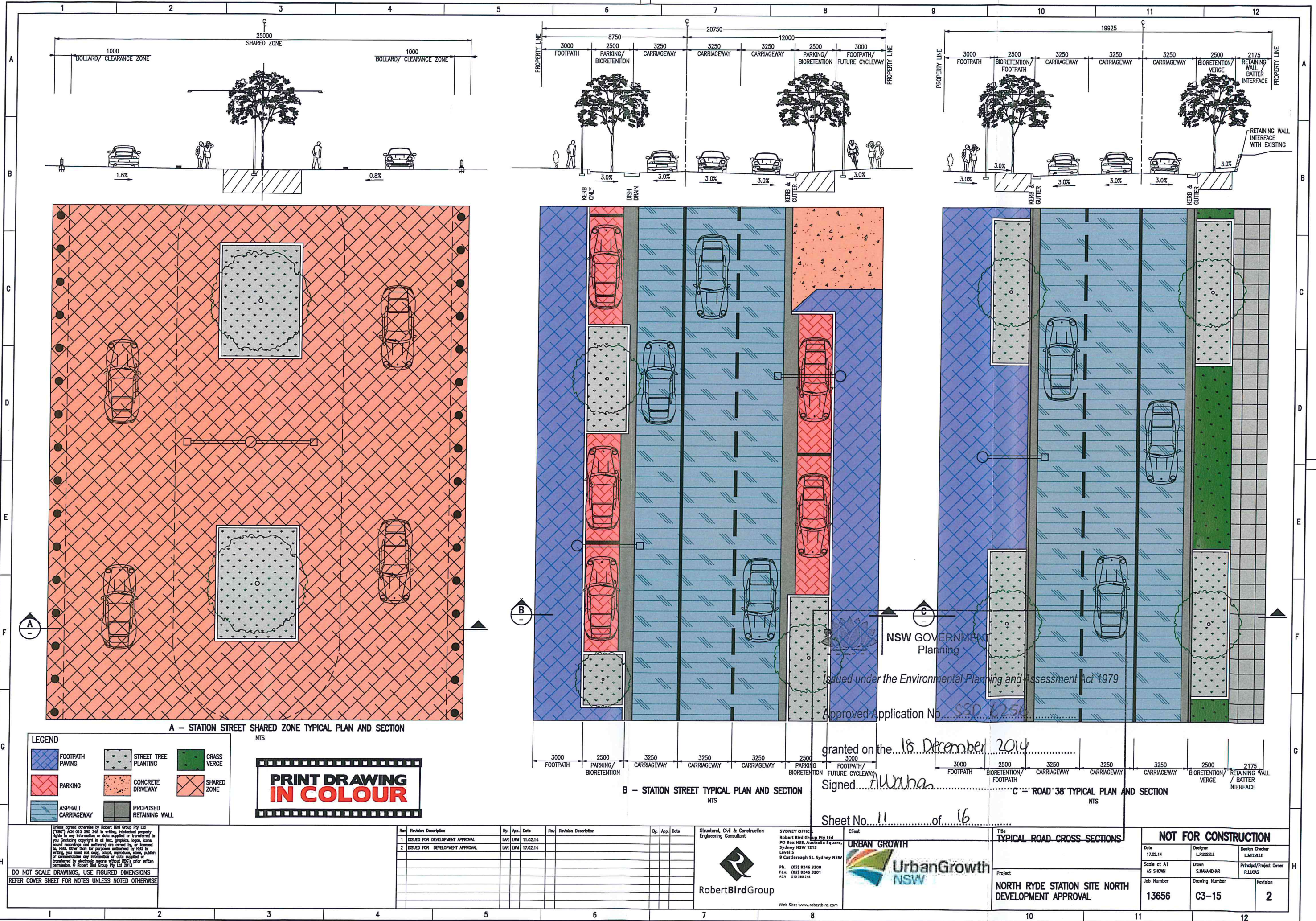
UrbanGrowth
NSW

Title
SWEEP PATH ANALYSIS PLAN
Project
**NORTH RYDE STATION SITE NORTH
DEVELOPMENT APPROVAL**

NOT FOR CONSTRUCTION
Date
17.02.14
Scale at A1
AS SHOWN
Job Number
13656
Designer
L. RUSSELL
Drawn
S. MANANDEHAR
Drawing Number
C3-03
Design Checker
L. MELVILLE
Principal/Project Owner
R. LUCAS
Revision
2

1 2 3 4 5 6 7 8 9 10 11 12

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LEGEND

FOOTPATH PAVING	STREET TREE PLANTING	GRASS VERGE
PARKING	CONCRETE DRIVEWAY	SHARED ZONE
ASPHALT CARRIAGEWAY	PROPOSED RETAINING WALL	

**PRINT DRAWING
IN COLOUR**

Rev	Revision Description	By	App.	Date	Rev	Revision Description	By	App.	Date
1	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LMM	11.02.14					
2	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LMM	17.02.14					

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Engineering Consultant

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Web Site: www.robertbird.com

Client

URBAN GROWTH

**UrbanGrowth
NSW**

Title

TYPICAL ROAD CROSS SECTIONS

Project

**NORTH RYDE STATION SITE NORTH
DEVELOPMENT APPROVAL**

NOT FOR CONSTRUCTION

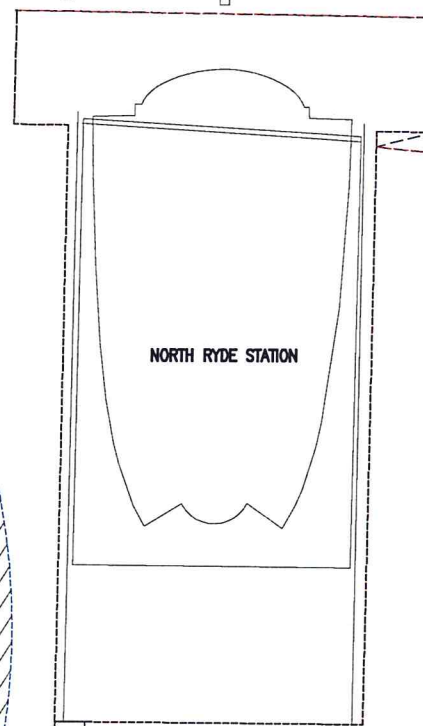
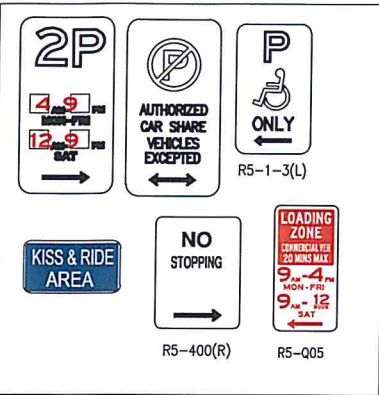
Date	17.02.14	Designer	L. RUSSELL	Design Checker	L. MELVILLE
Scale	at A1 AS SHOWN	Drawn	S. MANAKHAR	Principal/Project Owner	R. LILLY
Job Number	13656	Drawing Number	C3-15	Revision	2

granted on the 18 December 2014

Signed *AW*

Sheet No. 11 of 16

SIGNAGE AND LINE MARKING NOTES
SIGNAGE AND LINE MARKING SHALL BE IN ACCORDANCE WITH RTA (RMS) "GUIDE TO SIGNS AND MARKINGS" AND ALL RELEVANT CODES AND SPECIFICATION.



KISS & RIDE AREA

KISS & RIDE AREA

STATION SITE SOUTH

ECRL SERVICES BUILDING

NO STOPPING

NO STOPPING

NO STOPPING

NO STOPPING

2P
4.9
12.5
SAT

2P
4.9
12.5
SAT

LOADING ZONE
COMMERCIAL VEH
20 MINS MAX
9.4-4 PM
MON-FRI
9.4-12 PM
SAT

LOADING ZONE
COMMERCIAL VEH
20 MINS MAX
9.4-4 PM
MON-FRI
9.4-12 PM
SAT

AUTHORIZED CAR SHARE VEHICLES EXCEPTED

AUTHORIZED CAR SHARE VEHICLES EXCEPTED

NO STOPPING

NO STOPPING

LOADING ZONE
COMMERCIAL VEH
20 MINS MAX
9.4-4 PM
MON-FRI
9.4-12 PM
SAT

LOADING ZONE
COMMERCIAL VEH
20 MINS MAX
9.4-4 PM
MON-FRI
9.4-12 PM
SAT

2P
4.9
12.5
SAT

2P
4.9
12.5
SAT

NO STOPPING

NO STOPPING

NO STOPPING

KISS & RIDE AREA

KISS & RIDE AREA

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SCALE 1:250
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Rev	Revision Description	By	App	Date	Rev	Revision Description	By	App	Date
1	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LNM	11.02.14					
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Web Site: www.robertbird.com

NOT FOR CONSTRUCTION		
Date 17.02.14	Designer L. RUSSELL	Design Checker L. M. LITTLE
Scale at A1 AS SHOWN	Drawn S. MANWANEHR	Principal/Project Owner R. LUCAS
Job Number 13656	Drawing Number C5-01	Revision 2

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Planning

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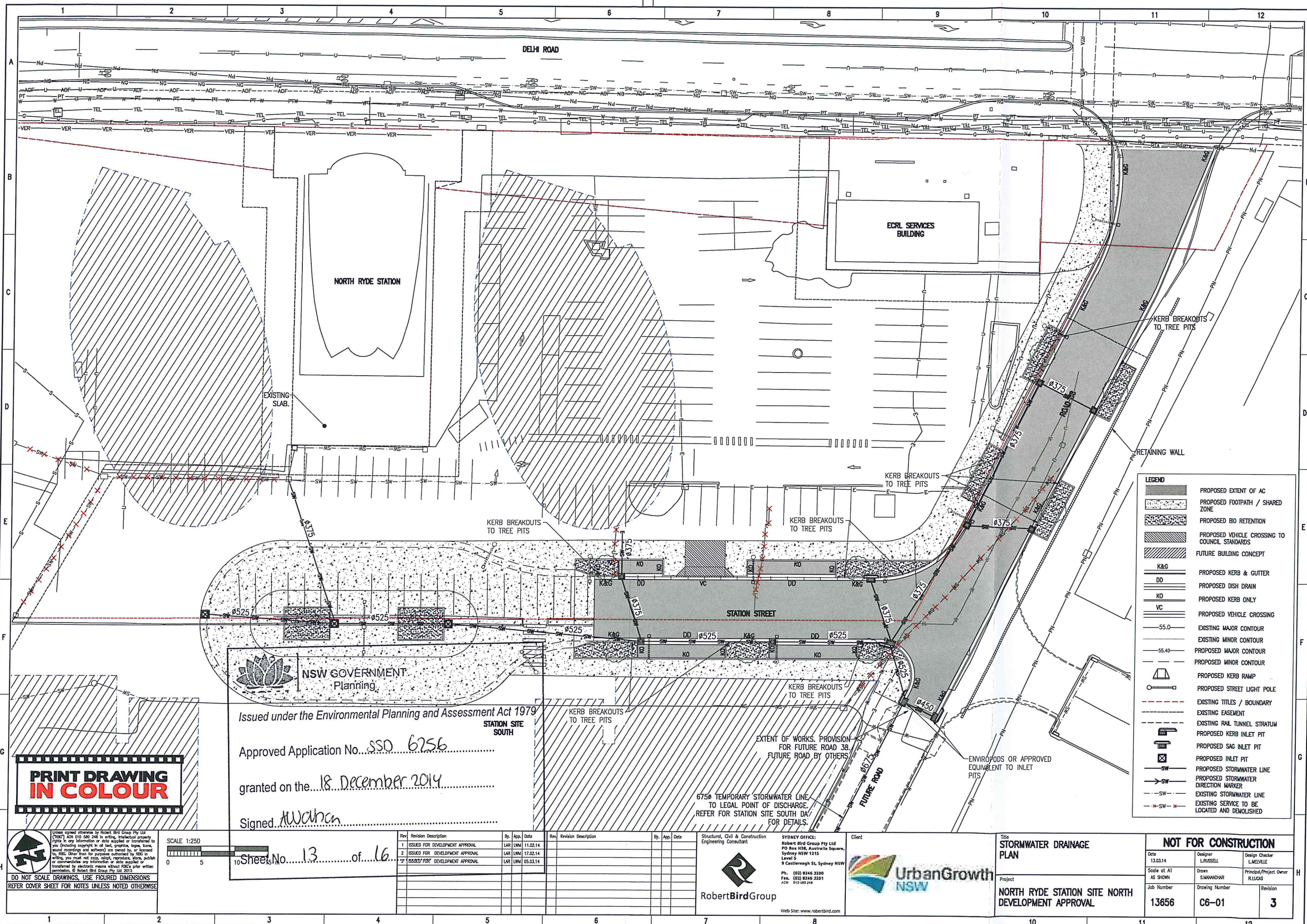
Approved Application No. SSD 6256

granted on the 18 December 2014

Signed: *Aurthor*

Sheet No. 12 of 16

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- LEGEND**
- PROPOSED EXTENT OF AC
 - PROPOSED FOOTPATH / SHARED ZONE
 - PROPOSED BIO RETENTION
 - PROPOSED VEHICLE CROSSING TO COUNCIL STANDARDS
 - FUTURE BUILDING CONCEPT
 - PROPOSED KERB & GUTTER
 - PROPOSED DISH DRAIN
 - PROPOSED KERB ONLY
 - PROPOSED VEHICLE CROSSING
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED KERB RAMP
 - PROPOSED STREET LIGHT POLE
 - EXISTING TITLES / BOUNDARY
 - EXISTING EASEMENT
 - EXISTING RAIL TUNNEL STRUTUM
 - PROPOSED KERB INLET PIT
 - PROPOSED SAG INLET PIT
 - PROPOSED INLET PIT
 - PROPOSED STORMWATER LINE
 - PROPOSED STORMWATER DIRECTION MARKER
 - EXISTING STORMWATER LINE
 - EXISTING SERVICE TO BE LOCATED AND DEMOLISHED

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NSW GOVERNMENT
Planning

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Approved Application No. SSD 6756

granted on the 18 December 2014

Signed AWachen

SCALE 1:250

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Sheet No. 13 of 16

Rev	Revision Description	By	App	Date
1	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LMA	11.02.14
2	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LMA	17.02.14
3	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LMA	05.03.14

Rev	Revision Description	By	App	Date
1	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LMA	11.02.14
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Client

UrbanGrowth
NSW

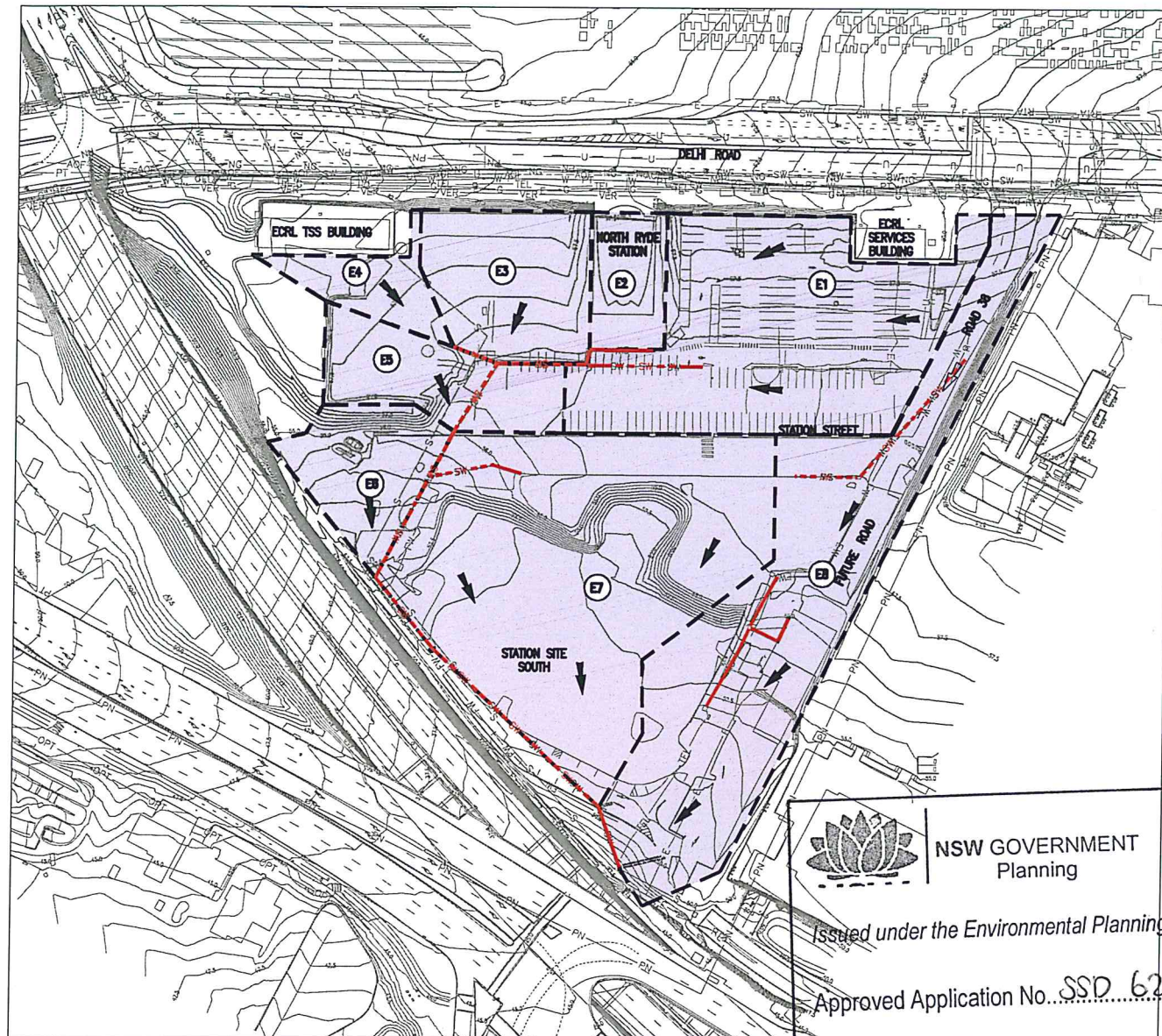
Web Site: www.robertbird.com

**STORMWATER DRAINAGE
PLAN**

Project

**NORTH RYDE STATION SITE NORTH
DEVELOPMENT APPROVAL**

NOT FOR CONSTRUCTION			
Date	13.03.14	Designer	L. RUSSELL
Scale at A1	AS SHOWN	Drawn	S. MANANDHAR
Job Number	13656	Drawing Number	C6-01
		Revision	3

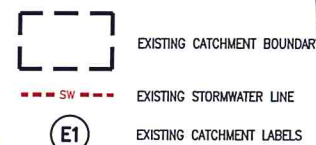


EXISTING STORMWATER CATCHMENT PLAN
SCALE 1:1000

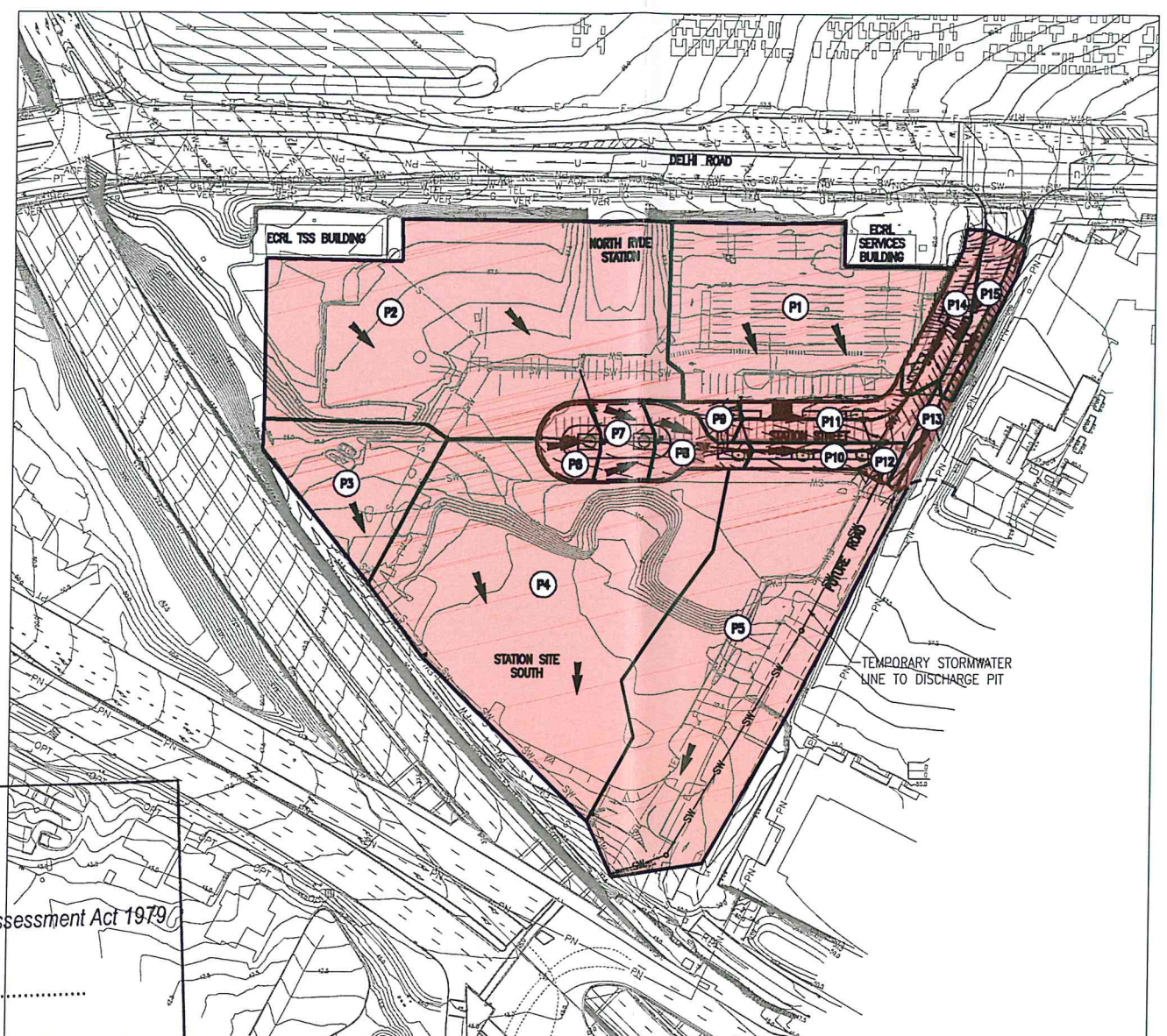
EXISTING CATCHMENT TABLE

CATCHMENT	AREA (HA)
E1	0.626
E2	0.159
E3	0.239
E4	0.090
E5	0.153
E6	0.132
E7	0.789
E8	0.669

LEGEND



NOTES:
• TOTAL CATCHMENTS:
NORTH: 1.267HA
SOUTH: 1.590HA
TOTAL: 2.857HA

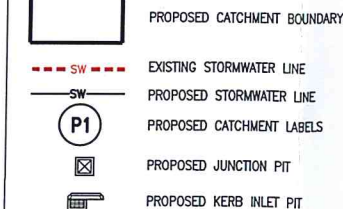


PROPOSED STORMWATER CATCHMENT PLAN
SCALE 1:1000

PROPOSED CATCHMENT TABLE

CATCHMENT	AREA (HA)	CATCHMENT	AREA (HA)
P1	0.385	P9	0.016
P2	0.717	P10	0.031
P3	0.160	P11	0.076
P4	0.719	P12	0.009
P5	0.596	P13	0.019
P6	0.038	P14	0.053
P7	0.043	P15	0.045
P8	0.046		

LEGEND



NOTES:
• TOTAL CATCHMENTS:
NORTH: 1.478HA
SOUTH: 1.475HA
TOTAL: 2.953HA

ASSUMPTIONS:

- FOR STORMWATER INFRASTRUCTURE AND WSUD DETAIL REFER TO RBG SBSMP REPORT.
- PERCENTAGE PERVIOUS/IMPERVIOUS FOR EACH CATCHMENT AREA HAS BEEN APPROXIMATED USING EXISTING SURVEY DATA AND SITE CONDITIONS.

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SCALE 1:1000
10 0 10 20 30 40m

Rev	Revision Description	By	App	Date	Rev	Revision Description	By	App	Date
1	ISSUED FOR DEVELOPMENT APPROVAL	LAR	UNM	11.02.14					
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Client
**URBAN GROWTH
NSW**

Title
**STORMWATER CATCHMENT
PLAN**
Project
**NORTH RYDE STATION SITE NORTH
DEVELOPMENT APPROVAL**

NOT FOR CONSTRUCTION
Date
17.02.14
Scale at A1
AS SHOWN
Job Number
13656
Designer
L.RUSSELL
Drawn
S.MANANDHAR
Drawing Number
C6-50
Design Checker
L.MEUVILLE
Principal/Project Owner
R.LUCAS
Revision
2

- NOTES:**
1. SERVICING STRATEGY AND UTILITY CONFIGURATIONS ARE INDICATIVE ONLY AND SUBJECT TO UTILITY PROVIDER APPROVALS.
 2. SERVICES AND SURVEY INFORMATION COMPILED FROM SURVEY INFORMATION BY WHEELANS INSTES, SEPTEMBER 2012 (ADP-1207-SUR-7000). ROBERT BIRD GROUP DOES NOT GUARANTEE THAT THE SURVEY INFORMATION IS ACCURATE, AND ACCEPTS NO LIABILITY FOR INACCURACIES.
 3. FOR DETAILS ON PROPOSED UTILITY LEADING WORKS REFER NORMAN DISNEY YOUNG, ELECTRICAL, COMMS AND LIGHTING REPORT (NOV 2012) AND LANDPARTNERS, WATER, WASTEWATER AND GAS SERVICING REPORT (NOV 2012).

PROPOSED SERVICES

- E — PROPOSED ELECTRICITY
- G — PROPOSED GAS
- W — PROPOSED WATER
- S — PROPOSED SEWER
- T — PROPOSED TELECOMMS
- SL — PROPOSED STREET LIGHT
- SW — PROPOSED STORMWATER
- PROPOSED KERB INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED SERVICE DEMOLITION



NSW GOVERNMENT
Planning

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Approved Application No. SSD 6256

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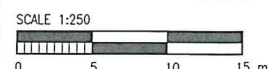
Signature: M. Baha
EXISTING REDUNDANT UTILITIES
LOCATED, AND REMOVED
TO AUTHORITY REQUIREMENTS

Sheet No. 13 of 16

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2	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LWM	17.02.14					
3	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LWM	05.03.14					

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Web Site: www.robertbird.com



Client

Title
**COMBINED SERVICES LAYOUT PLAN
- CONCEPT SERVICING STRATEGY**

Project
**NORTH RYDE STATION SITE NORTH
DEVELOPMENT APPROVAL**

NOT FOR CONSTRUCTION

Date 13.03.14	Designer D MITCHELL	Design Checker L MELVILLE
Scale at A1 AS SHOWN	Drawn S. MANANDHAR	Principal/Project Owner R. LUCAS
Job Number 13656	Drawing Number C9-01	Revision 3

NOTES:

1. STREET SPECIES SHALL BE IN ACCORDANCE WITH RYDE CITY COUNCIL STREET TREE MASTER PLAN.
2. BIO-RETENTION PIT PLANTING SHALL BE SUITABLE FOR WSUD AND SELECTED TO OPTIMISE WATER QUALITY TREATMENT.

NORTH RYDE STATION

ECRL SERVICES BUILDING



NSW GOVERNMENT
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No...SSD...6256.....

granted on the...18 December 2014.....

Signed...ALWahan.....

Sheet No...16.....of...16.....

GRASS TURFING TO VERGE

STATION STREET

FUTURE ROAD

STATION SITE SOUTH

**PRINT DRAWING
IN COLOUR**

SCALE 1:250
5 0 5 10m

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2	ISSUED FOR DEVELOPMENT APPROVAL	LAR	LHM	17.02.14					

Structural, Civil & Construction
Engineering Consultant

RobertBirdGroup

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Fax: (02) 8246 3201
ACN: 010 580 248
Web Site: www.robertbird.com

Client
URBAN GROWTH

NOT FOR CONSTRUCTION			
Title LANDSCAPING PLAN	Date 17.02.14	Designer L.RUSSELL	Design Checker L.MELVILLE
Project NORTH RYDE STATION SITE NORTH DEVELOPMENT APPROVAL	Scale at A1 AS SHOWN	Drawn S.MANANDHAR	Principal/Project Owner R.LUCAS
	Job Number 13656	Drawing Number C10-01	Revision 2