



Ref: BMY/LF 300001 (2)

18th February 2022

General Manager
Ryde City Council
Locked Bag 2069
NORTH RYDE NSW 1670

Noted on Lidia P-18/02/2022

Attention: Gasan Mohamad

Dear Gasan,

IVANHOE ESTATE SECTION 138 WORKS – CIVIL DESIGN STATEMENT

We hereby certify that the civil design depicted on the drawings in the register below, comply with all conditions of consent SSD 8903 and is generally in accordance with Council's DCP 2014 Part 4.5 Macquarie Park Corridor, Part 8.5 Public civil Works, Part 8.2 Stormwater Management, Public Domain Technical Manual Section 6 – Macquarie Park Corridor and all relevant Australian Standards.

Drawing No.	Name
300001(S138)-ENG-001	COVER SHEET, INDEX OF DRAWINGS & LOCALITY SKETCH
300001(S138)-ENG-002	GENERAL NOTES
300001(S138)-ENG-003	OVERALL SITE PLAN
300001(S138)-ENG-101	DETAIL PLAN
300001(S138)-ENG-151	PAVEMENT PLAN & DETAILS
300001(S138)-ENG-201	ROAD LONGITUDINAL SECTION - ROAD No.01
300001(S138)-ENG-202	DRIVEWAY LONGITUDINAL SECTION - DRIVEWAY No.3
300001(S138)-ENG-211	KERB RETURN LONGITUDINAL SECTIONS - KR103 & KR103A
300001(S138)-ENG-212	KERB RETURN LONGITUDINAL SECTIONS - KR10 & KR11
300001(S138)-ENG-401	STORMWATER CATCHMENT PLAN
300001(S138)-ENG-411	STORMWATER CALCULATION CHARTS - 20 & 100 YEAR A.R.I & PIT LPR 1\1 SETOUT PLAN
300001(S138)-ENG-701	PROPOSED VEHICLE SWEPT PATH PLAN - SHEET 1
300001(S138)-ENG-702	PROPOSED VEHICLE SWEPT PATH PLAN - SHEET 2
300001(S138)-ENG-703	PROPOSED VEHICLE SWEPT PATH PLAN - SHEET 3
300001(S138)-ENG-751	LINEMARKING & SIGNAGE PLAN
300001(S138)-ENG-901	SERVICES RELOCATION PLAN
300001(S138)-ENG-902	SERVICES RELOCATION SECTIONS

ADW JOHNSON PTY LIMITED

ABN 62 129 445 398

Central Coast

5 Pioneer Avenue, Tuggerah NSW 2259
PO Box 3717, Tuggerah NSW 2259
Ph. 02 4305 4300
Fax. 02 4305 4399
Video. 02 43054374
Email. coast@adwjohnson.com.au

Hunter Region

7/335 Hillsborough Road, Warners Bay NSW 2282
Ph. 02 4978 5100
Fax. 02 4978 5199
Video. 02 4954 3948
Email. hunter@adwjohnson.com.au

www.adwjohnson.com.au



Should you have any queries, please do not hesitate to contact the undersigned.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'N Delaney', is written in a cursive style.

Nathan Delaney
Senior Civil Engineer
MIEAust CPENG NER
ADW Johnson Pty Ltd
Central Coast

ADW JOHNSON PTY LIMITED

ABN 62 129 445 398

Central Coast

5 Pioneer Avenue, Tuggerah NSW 2259
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Email. hunter@adwjohnson.com.au

www.adwjohnson.com.au

Appendix B Public Lighting Form - Contestable Projects Only (Illumination Design Certificate & Agreement To Pay Residual Value) AUSPL CON F01A

PUBLIC LIGHTING FORM –Contestable Projects | AUSPL – CON F01A

Public Lighting Customer: A Public Lighting Customer is a Council (as defined by the Local Government Act 1993) or a Local, State or Federal Government Agency that has authority over areas of Public Lighting. There are other existing Public Lighting Customers who are not a government agency and do not have a responsibility over public lighting in public areas to whom this form is not applicable.

Customer: For the purposes of this document a Customer is a person who proposes to connect to Ausgrid’s distribution network (or who is modifying an existing connection) where the connection works include the establishment of public lighting infrastructure. A Customer can be a property developer, a builder or a construction company or a member of the general public.

Illumination Design Certificate This form is for Customer Initiated and funded Contestable Public Lighting Projects only. All fields are mandatory. The original copy with all appropriate signatures should be sent back to Ausgrid – Contestability Group.
Ausgrid ABN 78 508 211 731

Project details *To be filled by Ausgrid*

Ausgrid Project No <input style="width: 90%;" type="text"/>	Project name/location <input style="width: 90%;" type="text"/>
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Customer details *To be filled by Customer*

Name <input style="width: 95%;" type="text"/>	Address <input style="width: 95%;" type="text"/>
<i>(Public Lighting Customer /Developer / Builder or member of the General Public)</i>	
Phone <input style="width: 95%;" type="text"/>	Email <input style="width: 95%;" type="text"/>

SECTION 1 Customer or ASP/3 *To be filled by Customer funding the project or the Accredited Service Provider Level 3 authorised by the Customer*

To: Ausgrid

The attached project (*electrical connection design*) package has been prepared to meet Ausgrid’s connection requirements and the associated Illumination Design (*if applicable*) has been prepared to meet the requirements of the Public Lighting Customer and is submitted on behalf of the Customer. The following Option applies to this package. (*Tick Option 1 or 2*)

<input type="checkbox"/> Option 1 ASP/3 Electrical Connection Design package only is attached. Illumination Design is not required for whatever reason. Note: Ausgrid is not responsible for non compliance with the Australian Standard AS / NZS 1158 series on Road Lighting. <i>Complete Sections 2, 3 and 5.</i>	<input checked="" type="checkbox"/> Option 2 ASP/3 Electrical Connection Design package and the Illumination Design prepared by <u>Shelmerdines Consulting Engineers</u> (<i>state name of Lighting Designer/Consultant</i>) are attached. <i>Complete Sections 2,3,4 and 5</i>
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The Lighting Designer / Consultant, should ensure that the illumination design meets the requirements of AS / NZS 1158 series as per compliance certificate and declaration below (*if applicable*). The appropriate lighting level below is per the

requirements determined by the Public Lighting Customer or the Department of Planning or other State Agency in the Development Application (DA) or any other directive received.

SECTION 2 Existing Ausgrid Public Lighting Assets *To be filled by Accredited Service Provider Level 3*

Please indicate if existing public lighting assets are being removed below.

The design package does / does not (*circle as appropriate*) require the early removal or replacement of public lighting assets constructed and maintained by Ausgrid.

SECTION 3 ASP/3 Details *To be filled by Accredited Service Provider Level 3*

Company name	SHELMERDINES CONSULTING ENGINEERS	ABN	40 003 331 879
Phone	02 9436 3021	Address	PO BOX 1345 CROWS NEST NSW 1585
Email	Elbert@Shelmerdines.com.au		
ASP/3 Contact	ELBERT WANG <i>Print Name</i>	Signature	
Date	17 / 01 / 2022		

SECTION 4 Compliance Certificate from Lighting Designer/Consultant

I *(name)* ELBERT WANG *(position)* ELECTRICAL ENGINEER
of *(company)* SHELMERDINES CONSULTING ENGINEERS

Confirm that:

1. I carried out the illumination design work required for AN12710, LOCATED AT LYONPARK RD MACQUARIE PARK, *(Project name/location)* to achieve compliance with Australian Standard AS/NZS 1158 series.

2. The illumination design achieves compliance / does not achieve compliance (*circle as appropriate*) with Australian Standard AS/NZS 1158 series for: (*tick the relevant category*)

Category V Lighting for vehicular traffic
V1 V2 V3 V4 V5
(circle sub-category)

Category P Lighting for pedestrian traffic and pedestrian crossings P1 P2 P3 P4 P5 PR3
(circle sub-category)

3. The street lighting assets chosen are from the Standard List of Assets - Ausgrid's Network Standard NS119

Designer/consultant details

Name	ELBERT WANG	Phone	02 9436 3021
Email	Elbert@Shelmerdines.com.au	ABN	40 003 331 879
Address	PO BOX 1345 CROWS NEST NSW 1585	Signature	

[Empty box]

[Empty box]

Date 17 / 01 / 2022

SECTION 5 Public Lighting Customer Section (Local, State or Federal Government Agency that has the authority over areas with Public Lighting).

To: Ausgrid

I (Name of authorised Public Lighting Customer Representative) Wayne Rylands

on behalf of

(Name of Public Lighting Customer) City Of Ryde

acknowledge and make the following declarations

For all options:

- 1. The Public Lighting Customer is responsible for the provision of public lighting in the location of the project and for determining whether or not the public lighting included in this project should achieve compliance with AS/NZS 1158 series.
- 2. The Public Lighting Customer has determined that the public lighting included in the project should/should not (circle as appropriate) achieve compliance with AS/NZS 1158 series and agrees that the project design package has been prepared in a manner which achieves the Public Lighting Customers requirements in this regard.
- 3. The Public Lighting Customer accepts the attached ASP/3 Electrical Connection Design package AN-12710 (insert design number) and the attached Illumination Design, as applicable, and accepts the lighting levels as set out in the sections above.
- 4. Where the project requires the early replacement or removal of public lighting assets constructed and maintained by Ausgrid:
 - a. the Public Lighting Customer agrees to the Customer’s proposal and requests the early removal or replacement of those assets The assets which are to be removed early are specified in the project design and are referred to here as the “Early Replacement Assets”.
 - b. The Public Lighting Customer is currently responsible for the payment of annual charges in relation to the services provided by Ausgrid in relation to the Early Replacement Assets.
 - c. The Public Lighting Customer has agreed to the early removal of Early Replacement Assets and has requested Ausgrid to allow the early removal of those assets.
 - d. The AER Determination for Public Lighting Services provides for Ausgrid to charge for the residual value of assets removed early at the Public Lighting Customer’s request.
 - e. Ausgrid has agreed to the early removal of the public lighting assets and in consideration of that agreement, the Public Lighting Customer agrees to pay the Residual Value Payable in respect of the Early Replacement Assets.
 - f. The Residual Value Payable has been calculated by Ausgrid in accordance with the AER Determination for Public Lighting Services at \$ 615.25 (excluding GST). Ausgrid will invoice the Public Lighting Customer for the Residual Value for projects completed between 1 April through to the 31 March the following year. The invoice will be sent to the Public Lighting Customer for the Residual Value after 30 June in the same calendar year as the 31 March (as stated above) and the Public Lighting Customer will pay the invoice by the due date specified.

Where Option 2 has been checked:

The Public Lighting Customer has determined that the public lighting included in the project should achieve compliance with AS/NZS 1158 series. The Public Lighting Customer accepts responsibility for the lighting design levels achieved where:

- 1. The certification provided to it by the Lighting Designer / Consultant meets the requirements of AS/NZS 1158 as per the compliance certificate in Section 4 of this form.
- 2. The lighting levels are to be achieved irrespective of whether it was instructed as a pre-condition for approval of the Development Application or any other directive issued.

Ongoing Annual Charges for New Public Lighting (PL) Assets

Once the public lighting infrastructure has been commissioned, the responsibility for the ongoing maintenance of the public lighting infrastructure will then be assumed by Ausgrid.

Ausgrid will charge the Public Lighting Customer an annual charge for any new (*including altered*) public lighting assets as per the rates set out on Ausgrid's website.

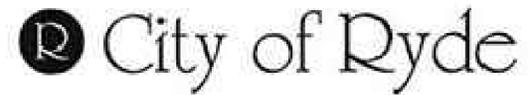
[Link to the price list on Ausgrid's website](#)

The signature below is an approval of the lighting and connection design works only. The public lighting charges have already been approved by the AER.

Signature of public lighting customer representative

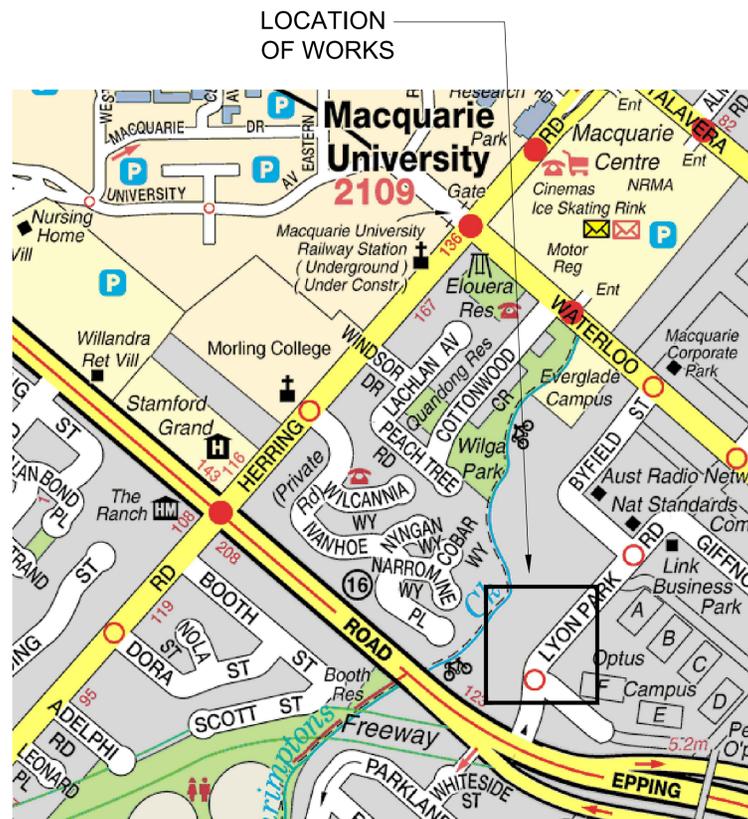
Wayne Rylands

Date
04 / 02 / 2022



**PUBLIC LIGHTING DESIGN
IVANHOE ESTATE
MACQUARIE PARK**

**LYONPARK ROAD
DETAILED LIGHTING DESIGN
SSDA - 8903**



SHEET INDEX		
SHEET NUMBER	DESCRIPTION	REV
6820-ES-601	COVER SHEET	G
6820-ES-602	SITE PLAN	G
6820-ES-603	COLUMN AND FOUNDATION DETAILS	C
6820-ES-604	SINGLE LINE DIAGRAMS, SWITCHBOARD AND WIRING DETAILS	E
6820-ES-605	GENERAL NOTES	C
6820-ES-606	LIGHTING CALCULATIONS SHEET 1	D
6820-ES-607	LIGHTING CALCULATIONS SHEET 2 AND LIGHTING CERTIFICATION	E
6820-ES-608	CIRCUIT DIAGRAM	C

CITY OF RYDE
APPROVED FOR CONSTRUCTION
LDA..... **SSDA - 8903**
Signed.....
Date..... **18 FEB 2022**
Subject to the Conditions
of Development Consent



No.	Description	Drn	Ckd	Date
A	FOR APPROVAL	EW	DT	04.11.21
B	SHEET INDEX UPDATED	EW	DT	24.11.21
C	SHEET INDEX UPDATED	EW	DT	03.12.21
D	SHEET INDEX UPDATED	EW	DT	17.12.21
E	SHEET INDEX UPDATED	EW	DT	14.01.22
F	SHEET INDEX UPDATED	EW	DT	24.01.22

CLIENT:



ELECTRICAL CONSULTING ENGINEERS



ABN 40 003 331 679 Telephone: (02) 9436 3021
55 Hume Street Email: mail@shelmerdines.com.au
Crowns Nest NSW 2065 Web: www.shelmerdines.com.au

PROJECT

**DETAILED LIGHTING DESIGN
LYONPARK ROAD,
MACQUARIE PARK**

DRAWING

**ELECTRICAL SERVICES
COVER SHEET**

DATE

NOV 2021

DRAWN

EW

DRAWING NUMBER
6820-ES-601

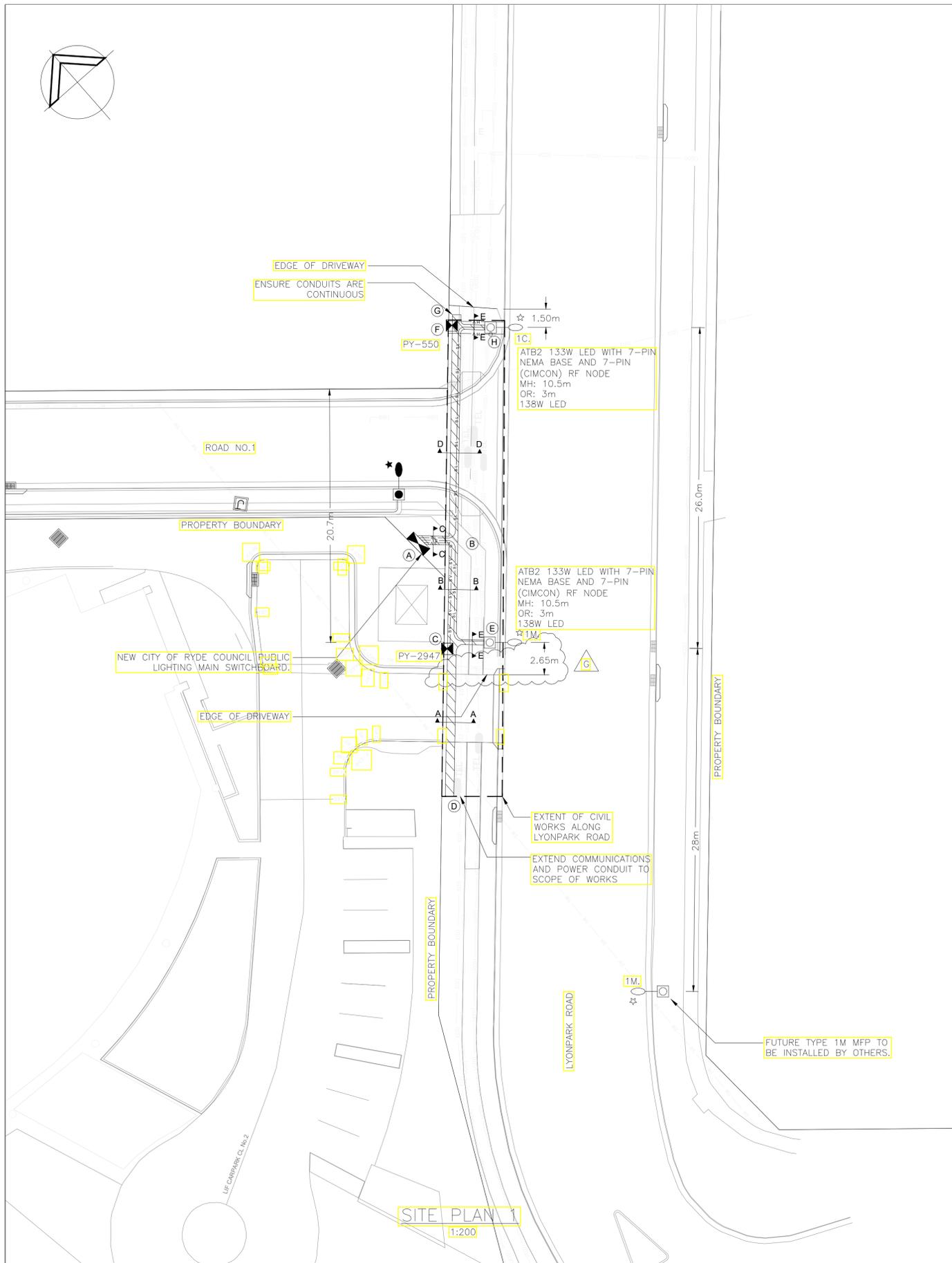
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NTS @ A1

CHECKED

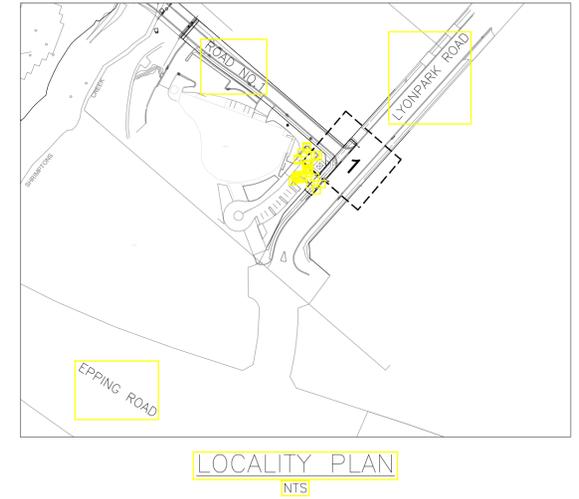
DT

ISSUE NUMBER
F



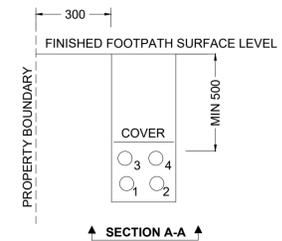
LEGEND:

- NEW RYDE COUNCIL PUBLIC LIGHTING MAIN SWITCHBOARD
- EXISTING MFP
- EXISTING SUPPLY AUTHORITY TIMBER POLE AND LUMINAIRE
- TYPE 1C MFP - NEW 133 WATT 4000°K LED STREETLIGHT EQUAL TO GERARD LIGHTING ATB2 R3 IN SELECTED COLOUR. LUMINAIRE SHALL HAVE A 7-PIN PHOTO RECEPTACLE AND RF NODE IN ORDER TO SUPPORT A 'SMART CONTROL' SYSTEM. INSTALL A CIMCON MODEL NODE (SLC-3100-7P-S-xxx-A-G-10-CATB-05 AND PLAY WIRELESS LIGHTING CONTROLLER. LUMINAIRE TO BE MOUNTED AT 10.5m AFFL ON MFP SYSTEMS (SUPPLIER) 12m ALUMINIUM CORNER BLOCK POLE (P/N: MFP-015) AND OFF A 3m OUTREACH ARM. 1.5m BANNER ARMS SHALL BE PROVIDED AND MOUNTED AT 10m AFFL. POLE TO BE INSTALLED 1000 FROM FACE OF KERB TO FACE OF POLE UNLESS OTHERWISE SPECIFIED.
- TYPE 1M MFP EQUAL TO TYPE 1C WITH 12m ALUMINIUM MID-BLOCK POLE (P/N: MFP-048).
- EXISTING SUPPLY AUTHORITY LV PILLAR
- NEW PVC CONDUITS/TRENCH
- EXISTING PVC CONDUITS/TRENCH
- NEW STREET LIGHTING CIRCUIT
- EXISTING STREET LIGHTING CIRCUIT
- NEW SERVICE MAIN

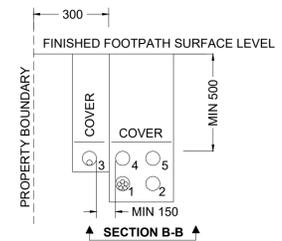


CONSTRUCTION SCHEDULE

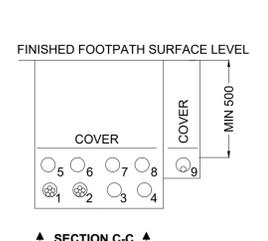
REF. IDENTIFIER	ROUTE DISTANCE (m)	CONDUCTOR OR ASSET DETAIL	CONSTRUCTION DETAIL
A	-	RYDE COUNCIL PUBLIC LIGHTING SWITCHBOARD	EXCAVATE AND INSTALL NEW RYDE COUNCIL PUBLIC LIGHTING SWITCHBOARD.
A - B	3.0	8 x 63mm CONDUITS 1 x 50mm CONDUIT	TRENCH AND INSTALL CONDUIT AS PER ASSOCIATED TRENCH CROSS SECTION
B - C	8.5	4 x 63mm CONDUITS 1 x 50mm CONDUIT	TRENCH AND INSTALL CONDUIT AS PER ASSOCIATED TRENCH CROSS SECTION
C - D	12.5	4 x 63mm CONDUITS	TRENCH AND INSTALL CONDUIT AS PER ASSOCIATED TRENCH CROSS SECTION
C - E	3.0	4 x 63mm CONDUITS	TRENCH AND INSTALL CONDUIT AS PER ASSOCIATED TRENCH CROSS SECTION
B - F	17.5	4 x 63mm CONDUITS	TRENCH AND INSTALL CONDUIT AS PER ASSOCIATED TRENCH CROSS SECTION
F - G	1.0	4 x 63mm CONDUITS	TRENCH AND INSTALL CONDUIT AS PER ASSOCIATED TRENCH CROSS SECTION
F - H	3.0	4 x 63mm CONDUITS	TRENCH AND INSTALL CONDUIT AS PER ASSOCIATED TRENCH CROSS SECTION
A - C	11.5	4 x 16mm ² CU1 PVC/PVC + 1x6mm ² EARTH CABLE	INSTALL 4x16mm ² CU1 PVC/PVC + 1x6mm ² EARTH CABLE AS PER ASSOCIATED TRENCH CROSS SECTION
A - E	13.0	4 x 16mm ² CU1 PVC/PVC + 1x6mm ² EARTH CABLE	INSTALL 4x16mm ² CU1 PVC/PVC + 1x6mm ² EARTH CABLE AS PER ASSOCIATED TRENCH CROSS SECTION
A - H	22.5	4 x 16mm ² CU1 PVC/PVC + 1x6mm ² EARTH CABLE	INSTALL 4x16mm ² CU1 PVC/PVC + 1x6mm ² EARTH CABLE AS PER ASSOCIATED TRENCH CROSS SECTION



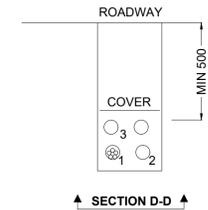
- 1 - NEW SPARE 63mm CONDUIT
- 2 - NEW SPARE 63mm CONDUIT
- 3 - NEW SPARE 63mm CONDUIT
- 4 - NEW SPARE 63mm CONDUIT



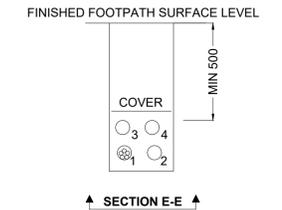
- 1 - PROPOSED LV 4x16mm² CU1 PVC/PVC + 1x6mm² EARTH CABLE IN NEW 63mm CONDUIT
- 2 - NEW SPARE 63mm CONDUIT
- 3 - NEW SERVICE MAIN IN NEW 50mm CONDUIT
- 4 - NEW SPARE 63mm CONDUIT
- 5 - NEW SPARE 63mm CONDUIT



- 1 - PROPOSED LV 4x16mm² CU1 PVC/PVC + 1x6mm² EARTH CABLE IN NEW 63mm CONDUIT
- 2 - PROPOSED LV 4x16mm² CU1 PVC/PVC + 1x6mm² EARTH CABLE IN NEW 63mm CONDUIT
- 3 - NEW SPARE 63mm CONDUIT
- 4 - NEW SPARE 63mm CONDUIT
- 5 - NEW SPARE 63mm CONDUIT
- 6 - NEW SPARE 63mm CONDUIT
- 7 - NEW SPARE 63mm CONDUIT
- 8 - NEW SPARE 63mm CONDUIT
- 9 - NEW SERVICE MAIN IN NEW 50mm CONDUIT



- 1 - PROPOSED LV 4x16mm² CU1 PVC/PVC + 1x6mm² EARTH CABLE IN NEW 63mm CONDUIT
- 2 - NEW SPARE 63mm CONDUIT
- 3 - NEW SPARE 63mm CONDUIT
- 4 - NEW SPARE 63mm CONDUIT



- 1 - PROPOSED LV 4x16mm² CU1 PVC/PVC + 1x6mm² EARTH CABLE IN NEW 63mm CONDUIT
- 2 - NEW SPARE 63mm CONDUIT
- 3 - NEW SPARE 63mm CONDUIT
- 4 - NEW SPARE 63mm CONDUIT

CITY OF RYDE
APPROVED FOR CONSTRUCTION
 SSSA - 8903
 LDA.....
 Signed.....
 Date..... 18 FEB 2022
 Subject to the Conditions of Development Consent

No.	Description	Drn	Ckd	Date	No.	Description	Drn	Ckd	Date
A	FOR APPROVAL	EW	DT	04.11.21	E	REVISED AS PER COUNCIL REQ	EW	DT	14.01.22
B	FUTURE MFP BY OTHERS ADDED. SCOPE OF CIVIL WORKS ADDED. CROSS SECTIONS UPDATED. EXISTING SERVICES SHOWN.	EW	DT	24.11.21	F	EARTH CABLE SIZE AMENDED MFP DRIVEWAY CLEARANCE ADDED	EW	DT	24.01.22
C	SPARE CONDUITS EXTENDED	EW	DT	03.12.21	G	DRIVEWAY SPLAY REMOVED DISTANCE FROM DRIVEWAY UPDATED	EW	DT	17.02.22
D	REVISED AS PER COUNCIL REQ	EW	DT	17.12.21					

CLIENT:

ELECTRICAL CONSULTING ENGINEERS

Shelmerdines Consulting Engineers
 ABN 40 003 331 679
 55 Hume Street, Crows Nest NSW 2065
 Telephone: (02) 9436 3021
 Email: mail@shelmerdines.com.au
 Web: www.shelmerdines.com.au

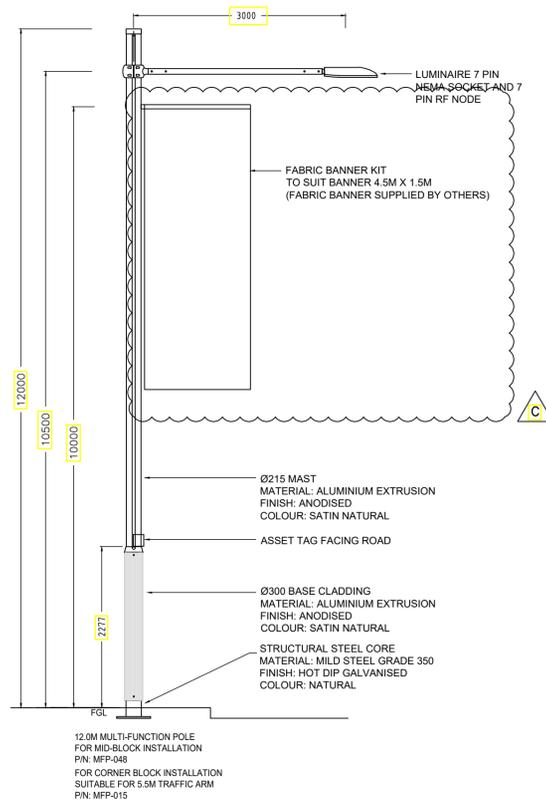
PROJECT

DETAILED LIGHTING DESIGN
LYONPARK ROAD,
MACQUARIE PARK

DRAWING

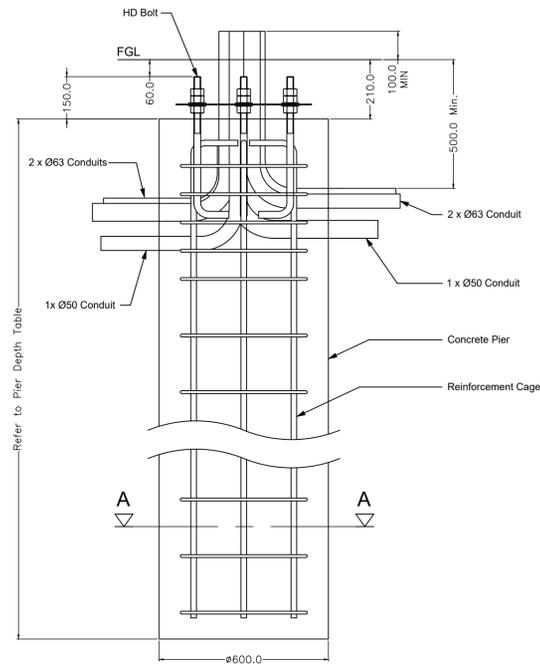
ELECTRICAL SERVICES
SITE PLAN

DATE	SCALE
NOV 2021	AS SHOWN @ A1
DRAWN	CHECKED
EW	DT
DRAWING NUMBER	ISSUE NUMBER
6820-ES-602	G



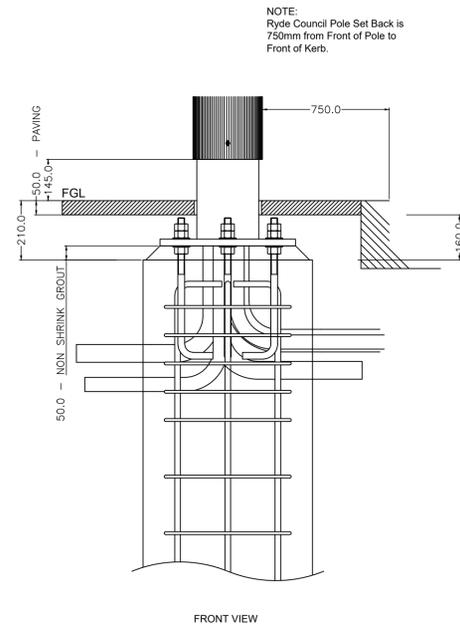
MULTIFUNCTION POLE – TYPE 1M AND TYPE 1C

NOTE: CLEARANCE FROM FACE OF KERB TO FACE OF POLE TO BE 750mm FOR MID-BLOCK POLES AND 1000mm FOR CORNER BLOCK POLES (POLES SUPPLIED BY MFP SYSTEMS) CONTACT: ADAM SMITH 0429 814 471

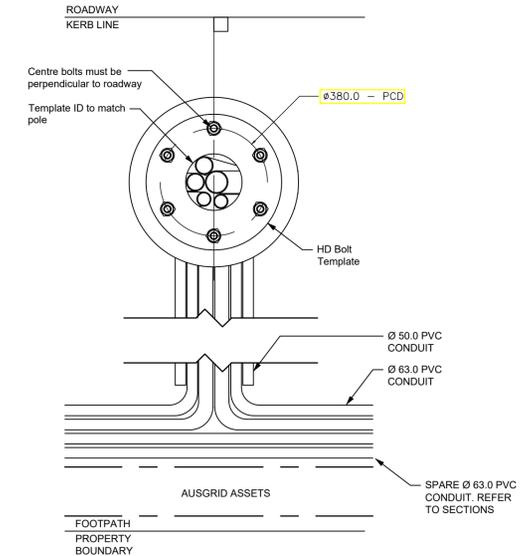


TYPICAL FOOTING ELEVATION & DETAIL

NOTE: FINAL FOOTING DETAILS & ARRANGEMENT TO BE SPECIFIED BY STRUCTURAL ENGINEER TO SUIT LOCAL ENVIRONMENTAL CONDITIONS.

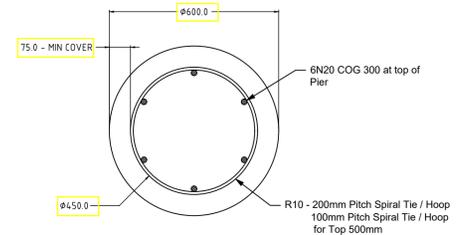


TYPICAL INSTALLATION DETAIL MULTI-FUNCTION POLE



TYPICAL CONDUIT ARRANGEMENT PLAN VIEW

ULIMATE BASE REACTIONS					PIER DEPTH TABLE	
PART No.	POLE TYPE	Axial - P (kN)	Shear - V (kN)	Torque - T (kNm)	PIER DEPTH	
MFP-016	M2B - 9.6m	3	12	3	2.6m	
MFP-022	M2A - 9.6m	10	15	27	3.3m	
MFP-015	M2A - 12.0m	10	15	27	3.3m	
MFP-007	M2A2 - 12.0m	5	9	2	2.6m	
MFP-009	M2B - 6.5m	2	7	3	2.0m	
MFP-010	M2B - 5.0m	2	6	1	1.8m	
MFP-014	M2B - 8.0m	3	7	3	2.5m	
MFP-020	M2B3 - 11.0m	3	13	7	3.0m	
MFP-048	M2A2 - 12.0m	5	8	7	2.6m	



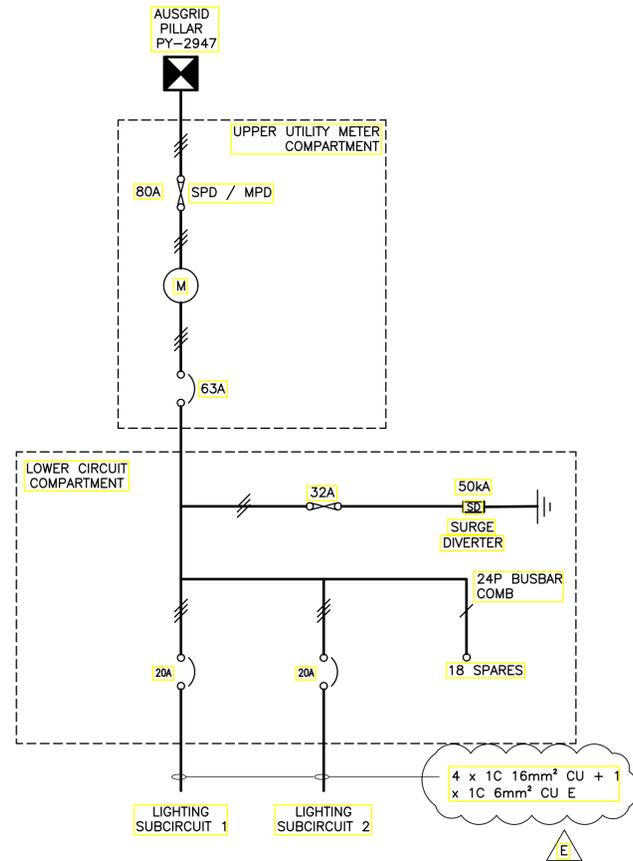
SECTION A-A

NOTES GENERAL

- Minimum clearance to existing Gas Mains to be 300mm. Minimum clearance to existing Water Mains to be 150mm.
- The generic foundation design shown is for reference ONLY.
- A site specific foundation will need to be designed and certified by an engineer after a Geotechnical Survey has been completed.

CITY OF RYDE
APPROVED FOR CONSTRUCTION
 LDA: SSSA - 8903
 Signed: [Signature]
 Date: 18 FEB 2022
 Subject to the Conditions of Development Consent

No.	Description	Drn	Ckd	Date	No.	Description	Drn	Ckd	Date	CLIENT:	ELECTRICAL CONSULTING ENGINEERS	PROJECT	DRAWING	DATE	SCALE
A	FOR APPROVAL	EW	DT	04.11.21						FRASERS PROPERTY	Shelmerdines Consulting Engineers	DETAILED LIGHTING DESIGN LYONPARK ROAD, MACQUARIE PARK	ELECTRICAL SERVICES COLUMN AND FOUNDATION DETAILS	NOV 2021	AS SHOWN @ A1
B	MID-BLOCK MFP DETAIL ADDED	EW	DT	24.11.21					EW					DT	
C	BANNER ARM ADDED, AERIAL CABLE REMOVED	EW	DT	17.12.21					DRAWING NUMBER 6820-ES-603					ISSUE NUMBER C	



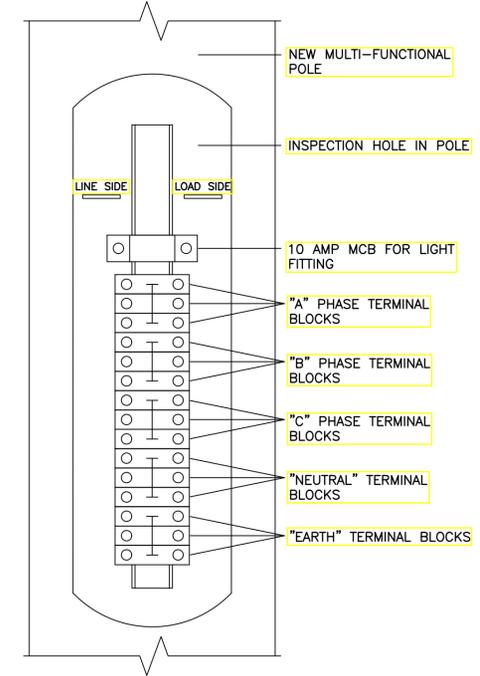
EXISTING CITY OF RYDE COUNCIL MAIN SWITCHBOARD SINGLE LINE DIAGRAM

NOT TO SCALE

LEGEND

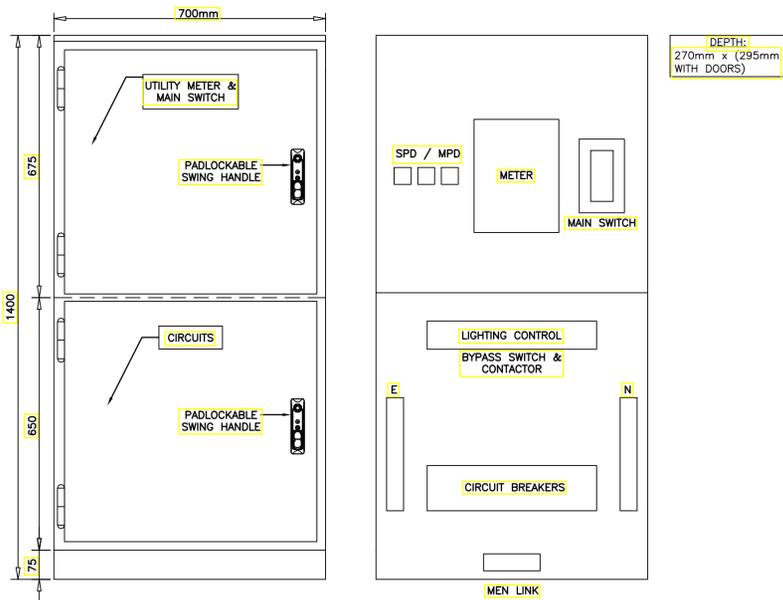
- NEW ENERGY SUPPLIER WHOLE CURRENT METERING EQUIPMENT
- CABLE OR BUSBAR
No OF STROKES DENOTES No. OF PHASES
- EXISTING CABLE OR BUSBAR
No OF STROKES DENOTES NUMBER OF PHASES
- NEW TYPE 'B' CIRCUIT BREAKER RCBO - COMPLETE WITH INTEGRAL 30mA RESIDUAL CURRENT DEVICE
- NORMALLY OPEN CONTACT
- SWITCH
- NEW FUSE WITH LOAD / LINE SIDE AND RATING
- SURGE DIVERTERS

NOTE:
SWITCHBOARDS TO SIT ON A SINGLE CONCRETE PLINTH SEPARATED BY 100mm. SPARE 63mm CONDUIT TO BE PROVIDED BETWEEN SWITCHBOARDS



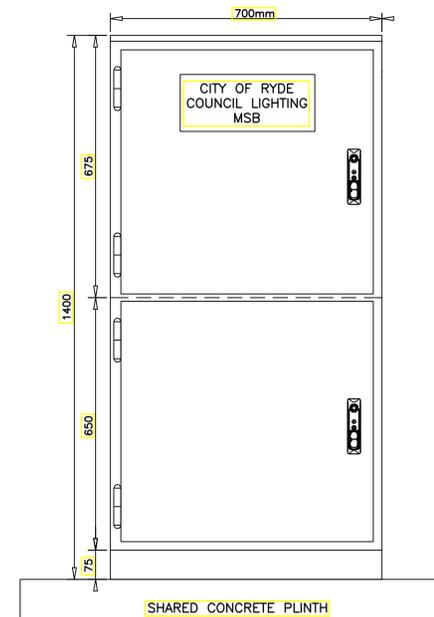
INTERNAL ELECTRICAL LAYOUT FOR MFP

NOT TO SCALE



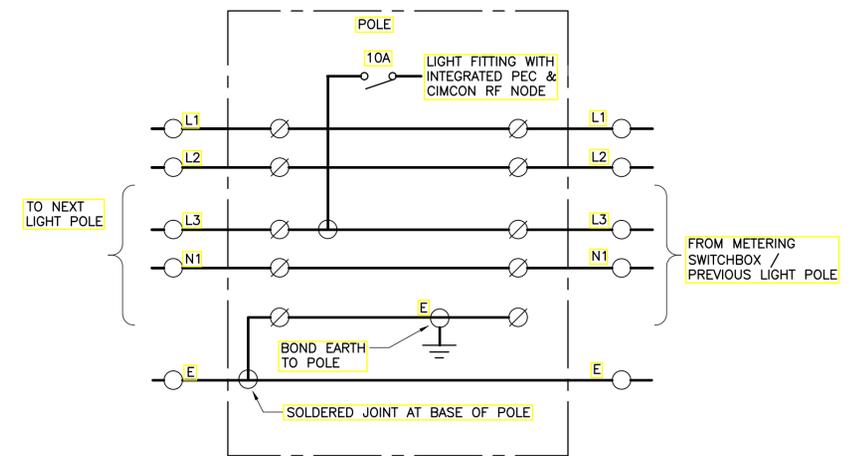
TYPICAL SWITCHBOARD DETAIL

NOT TO SCALE



SWITCHBOARD ELEVATION DETAIL

NOT TO SCALE



TYPICAL NEW POLE WIRING

NOT TO SCALE

CITY OF RYDE
APPROVED FOR CONSTRUCTION
LDA: SSSA - 8903
Signed:
Date: 18 FEB 2022
Subject to the Conditions of Development Consent

No.	Description	Drn	Ckd	Date
A	FOR APPROVAL	EW	DT	04.11.21
B	AUSGRID PILLAR NUMBER ADDED	EW	DT	24.11.21
C	EXISTING SWITCHBOARD DETAILS REMOVED, NEW SWITCHBOARD DETAILS ADDED	EW	DT	17.12.21
D	SWITCHBOARD SINGLE LINE REVISED	EW	DT	14.01.22
E	EARTH CABLE SIZE REVISED	EW	DT	24.01.22

CLIENT:



ELECTRICAL CONSULTING ENGINEERS



ABN 40 003 331 679 Telephone: (02) 9436 3021
55 Hume Street Email: mail@shelmerdines.com.au
Crows Nest NSW 2065 Web: www.shelmerdines.com.au

PROJECT

DETAILED LIGHTING DESIGN
LYONPARK ROAD,
MACQUARIE PARK

DRAWING

ELECTRICAL SERVICES
SINGLE LINE DIAGRAMS,
SWITCHBOARD AND WIRING
DETAILS

DATE

NOV 2021

DRAWN

EW

DRAWING NUMBER

6820-ES-604

SCALE

AS SHOWN @ A1

CHECKED

DT

ISSUE NUMBER

E

GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR IS TO VISIT THE SITE PRIOR TO PRICING TO SATISFY THEMSELVES OF THE SCOPE OF WORKS.
2. PLANS HAVE BEEN PREPARED BASED ON SITE INVESTIGATION. DETAILED SURVEY HAS NOT BEEN UNDERTAKEN.
3. UPON COMPLETION OF WORKS, THE CONTRACTOR IS TO SUPPLY COUNCIL WITH A COPY OF THE WORKS AS EXECUTED (WAE) DRAWINGS. IN PROGRESS WAE DRAWINGS MAY ALSO BE REQUESTED FROM TIME TO TIME BY RYDE COUNCIL FOR CO-ORDINATION PURPOSES.
4. ALL REMOVED & REDUNDANT MATERIALS TO BE APPROPRIATELY DISPOSED OF BY THE CONTRACTOR.
5. WHILE NO RECORDS EXIST TO THE CONTRARY, THE CONTRACTOR SHALL ENSURE APPROPRIATE WORKPLACE SAFETY MEASURES ARE UTILISED IN REGARDS TO WORKING WITH ASBESTOS AND/OR ASBESTOS CONTAINING MATERIALS.
6. ALL WORKS IS TO BE COMPLETED IN A PROFESSIONAL AND TRADESMAN LIKE QUALITY.
7. ELECTRICAL AUTHORITY IS AUSGRID
8. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT REVISION OF THE BCA/NCC , AS/NZS 3000, AS/ACIF S009, NSW SERVICE AND INSTALLATION RULES, AUSTRALIAN STANDARDS.
9. THE CONTRACTOR SHALL UNDERTAKE A "DIAL BEFORE YOU DIG" SEARCH FOR EXISTING IN-GROUND SERVICES NO MORE THAN 20 BUSINESS DAYS PRIOR TO EXCAVATION ON SITE. ANY DAMAGE TO EXISTING IN-GROUND SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
10. THE EXISTING SERVICES SHOWN IN THE DRAWING PACKAGE HAVE BEEN DOCUMENTED FROM THE SUPPLIES DATA BY THE COUNCIL. SHELMEARDINES CONSULTING ENGINEERS DOES NOT GUARANTEE OR TAKE RESPONSIBILITY OF THE ACCURACY OF THIS INFORMATION.
11. DESIGNER IS TO BE CONTACTED REGARDING ISSUES RAISED WITH THIS DESIGN.
12. THE DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
13. THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, INCLUDING AUSGRID'S NETWORK, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCES BY CONTACTING DIAL-BEFORE-YOU-DIG BY TELEPHONE ON 1100 OR WWW.1100.COM.AU
14. FOR DETAILS PLEASE REFER TO CITY OF RYDE DESIGN GUIDE, COUNCIL-OWNED STREET LIGHTING.
15. THE CONTRACTOR TO DISCUSS WITH THE COUNCIL'S MAINTENANCE CONTRACTOR BEFORE INSTALLATION.
16. STAGE 2 LIGHTING CANNOT BE CONSTRUCTED UNTIL PUBLIC DOMAIN CIVIL WORKS HAVE BEEN APPROVED BY THE ACCREDITED CERTIFIER.
17. FUTURE CONSULTATION WITH THE COUNCIL IS REQUIRED FOR THE RELOCATION OF STREET LIGHTING COLUMNS DUE TO ANY CHANGES TO THE CIVIL LAYOUT SHOWN IN THIS DESIGN. A REVISED DESIGN WILL BE REQUIRED.

LIGHTING DESIGN

1. ALL LUMINAIRES TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENT AND SPECIFICATIONS.
2. LIGHTING EQUIPMENT, LOCATION AND TYPES MAY NOT BE SUBSTITUTED WITHOUT PRIOR CONSENT AND APPROVAL OF THE DESIGNER. REFER IMAGE OF PROPOSED LUMINAIRE TO RIGHT.
3. COLOUR/FINISH OF ALL LIGHT FITTINGS, TRIMS, LENSES AND ACCESSORIES TO BE APPROVED BY THE COUNCIL. CONTRACTOR SHALL PROVIDE SAMPLES OF LIGHT FITTINGS PRIOR TO PROCUREMENT.
4. NEW POLE LUMINAIRES ARE TO BE LOCATED TO AVOID CLASHES WITH EXISTING TREES. CONFIRM LOCATION WITH LIGHTING DESIGNER PRIOR TO INSTALLATION. WHERE TREE BRANCHES ARE REQUIRED TO BE TRIMMED, THE AUTHORISED PERSON IS TO BE ADVISED PRIOR TO ANY WORKS.
5. 3 PHASE WIRING REQUIRED.
6. "PERMANENT POWER" AVAILABLE ON EACH MFP FOR THE SMART CONTROL TO FUNCTION.



PROPOSED LUMINAIRE
1.33W GERARD LIGHTING ARTERIAL 2

TRENCHING AND CABLING

1. 63mm DIAMETER CONDUITS INCLUDING A SPARE CONDUIT SHALL BE INSTALLED.
2. ADDITIONAL CONDUIT SHALL ALSO BE PROVIDED FOR FUTURE COMMUNICATION CABLING.
3. THE CONDUITS SHALL EXTEND TO THE LIMITS OF THE WORKS OR BOUNDARIES OF THE DEVELOPMENT SITE.
4. THE CONDUITS SHALL BE CAPPED FOR FUTURE EXPANSION. THIS WILL ALSO MINIMISE THE NEED TO EXCAVATE THE NEWLY LAID FOOTPATHS ADJACENT TO THE DEVELOPMENT SITE.
5. ELECTRICAL CONTRACTORS SHALL SAW CUT & EXCAVATE THE EXISTING SURFACE TO INSTALL NEW POLE LUMINAIRES. REINSTATE TRENCH WITH APPROPRIATE BACK FILL & COMPACTION, INCLUDING FINISHING OF TRENCH WITH COLD MIX ASPHALT OR TO MATCH WITH EXISTING FINISH. ALLOW FOR SLIGHT OVER FILL TO AVOID SAGGING, ALLOW FOR THESE WORKS TO BE UNDERTAKEN TO AVOID DISRUPTION DURING NORMAL WORKING DAYS/HOURS.
6. CONTRACTOR TO CO-ORDINATE WITH COUNCIL THE TRENCH ALLOCATION FOR THE NEW SMART POLES.
7. STREET LIGHT MAINS TO HAVE 500mm COVER IN FOOTWAY AND 750mm IN ROADWAY.
8. CONTRACTOR TO LIAISE WITH COUNCIL AND AUTHORITIES ON THE UNDERGROUNDING PLACEMENT OF ELECTRICAL CONDUITS.
9. ALL CONDUITS MUST COMPLY WITH RELEVANT SECTIONS OF AS/NZS 2053 AND COUNCIL REQUIREMENTS.
10. ALL THE CABLE LAYING TO BE RECORDED IN COMPLIANCE WITH AS/NZS 3000.
11. RADIUS OF BEND OF CABLE TO COMPLY WITH CABLE MANUFACTURE AND COUNCIL REQUIREMENTS.
12. IF ANY EXCAVATION OR U/G WORKS ARE TO BE DONE ALL SURFACES MUST BE RESTORED TO ORIGINAL STATE UPON COMPLETION OF THE PROJECT.
13. LOCATION OF CONDUITS ON FOOTPATH IS AS PER COUNCIL REQUIREMENTS.
14. CONTRACTOR TO LOCATE COMMS CONDUITS AS PER AUSTRALIAN STANDARD AND CITY OF RYDE COUNCIL'S REQUIREMENT.

FOUNDATION & COLUMN

1. STRAIGHT PILES IS STANDARD. THIS FOOTING MUST BE PREPARED BY A QUALIFIED STRUCTURAL ENGINEER REFERRED ON THE NER OF AUSTRALIA AND PROVIDED TO COUNCIL FOR REVIEW AND APPROVAL PRIOR TO THE INSTALLATION.
2. ALL LIGHTS TO SIT 750 BEHIND THE KERB OTHER THAN LIGHTS AT INTERSECTIONS WHERE SHALL BE LOCATED 1000 BEHIND THE KERB OR OTHERWISE NOTED ON THE DESIGN.

SWITCHBOARD

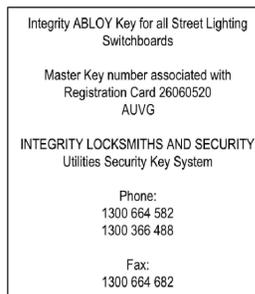
- CUBICLE:
1. 2.0mm FOLDED AND WELDED STAINLESS STEEL SHEET CONSTRUCTION, SWITCHBOARD CABINET IS TO BE BASE MOUNTED VIA HOT DIPPED GALVANISED CHANNEL IRON PLINTH.
 2. ESCUTCHEON SECURED TO CABINET WITH DOME NUTS.
 3. DOORS ARE SWUNG ON CHROME PLATED HINGES AND FIXED WITH SWING HANDLES.
 4. 3mm ALUMINIUM GLAND PLATES FITTED TO BASE OF SWITCHBOARD.
- FINISH:
1. SHEET METAL TO BE DEGREASED WITH SOLVENT, PHOPHORIC ACID WASHED, AND CLEANED WITH 180 GRIT PAPER. ELECTROSTATIC POLYESTER POWDER TO BE APPLIED AS FOLLOWS:
CABINET EXTERIOR – ORBITAL FINISH
CABINET INTERIOR – GLOSS WHITE
ESCUTCHEONS – GLOSS WHITE
PLINTH – 75mm HOT DIPPED GALVANISED
- LABELS:
1. LABELS ARE TO BE MACHINE ENGRAVED FROM GRAVOPLY LAMINATE AND FIXED TO THE SWITCHBOARD METALWORK USING M3 SCREWS.
- BUSBARS:
1. NEUTRAL AND EARTH BARS TO BE LOCATED IN A POSITION WHERE THEY WILL NOT BE OBSTRUCTED BY SUBMAIN CABLES.
 2. NEUTRAL BAR TO BE FULL RATING OF ACTIVES.
 3. NEUTRAL AND EARTH TERMINATIONS TO BE NUMBERED TO CORESPOND WITH RESPECTIVE SUBCIRCUIT NUMBERS THAT APPEAR ON LABELS.
- SPECIFICATIONS:
1. SWITCHBOARD MANUFACTURED TO AS 61439.2.
 2. FORM 2B SEPARATION TO AS 61439.2.
 3. IP66 CONSTRUCTION TO AS 60529.
 4. FAULT LEVEL – 10KA FOR 1 SEC COMMERCIAL & INDUSTRIAL AREAS REQUIRE 25KA AS PER NSW SIR.
 5. 415 VOLT, 50Hz M.E.N LINK SYSTEM.
 6. MAINS CABLES – BOTTOM ENTRY VIA 3mm ALUMINIUM GLAND PLATE.
 7. SUBMAIN CABLES – BOTTOM EXCIT VIA 3mm ALUMINIUM GLAND PLATE.

SUBCIRCUITS

1. 3-PHASE CB OR LINKED 1-PHASE CBS MUST BE UTILISED. THE USE OF UNLINKED 1-PH CBS IS NOT PERMITTED BY AS 3000.

LOCKING

1. ALL STREET LIGHT SWITCHBOARDS SHALL BE LOCKED WITH UNIQUE ABLOY KEY PADLOCK, AS DETAILED BELOW:

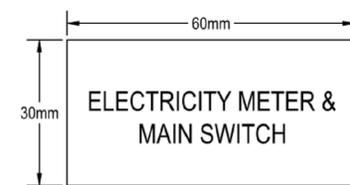


PUBLIC LIGHTING SWITCHBOARD TAG SPECIFICATION

1. THE SIZE OF THE PLATE SHALL BE 200mm (LENGTH) x 60mm (HEIGHT).
2. THE TEXT SIZE FOR THE STREET NAME AND FOR "PUBLIC LIGHTING SWITCHBOARD" IS TO BE 13mm TALL AND THE TEXT SIZE FOR "PROPERTY OF CITY OF RYDE, ENQUIRIES: 9952 8222" IS TO BE 5mm. THE "CITY OF RYDE" LOGO IS TO BE 10mm TALL.
3. THE PLATE IS TO HAVE A SILVER (STAINLESS STEEL) BACKGROUND WITH BLACK TEXT AND LOGO PRINT.
4. THE LOGO AND TEXT ARE NO TO BE STICKER LETTERING.
5. THE MATERIAL OF THE PLATE AND THE ADHESIVE BACKING SHALL COMPLY WITH THE REQUIREMENTS OF THE DISTRIBUTION BOARD (GENERALLY STAINLESS STEEL).
6. THE STREET NAME SHALL BE PRINTED WITHOUT ANY ABBREVIATIONS. IF THE STREET NAME IS TOO LONG IT CAN BE PRINTED IN TWO LINES.
7. "PUBLIC LIGHTING SWITCHBOARD" IS TO BE PRINTED IN THE CENTRE OF THE TAG.



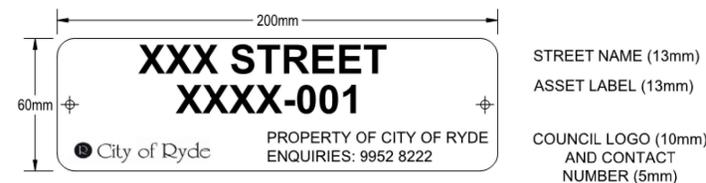
8. THE TAG BELOW WITH DIMENSIONS 60mm (LENGTH) x 30mm (HEIGHT) WITH "ELECTRICITY METER & MAIN SWITCH" IS TO BE PLACED ON THE DOOR WITH THE METER WITHIN (THERE MAY BE TWO SEPARATE DOORS – ONE FOR THE METER AND THE OTHER FOR THE DISTRIBUTION BOARD).



LIGHTING POLE TAG SPECIFICATION

- GENERAL:
1. THE SIZE OF THE PLATE SHALL BE 200mm (LENGTH MEASURED ALONG THE CURVATURE OF THE POLE) x 60mm (HEIGHT).
 2. THE PLATE IS TO HAVE A SILVER (ALUMINIUM) BACKGROUND WITH BLACK TEXT AND LOGO PRINT.
 3. THE LOGO AND TEXT ARE NOT TO BE STICKER LETTERING.
 4. THE PLATE SHALL BE CURVED TO SUIT THE CURVATURE OF THE POLE.
 5. THE MATERIAL OF THE PLATE AND RIVETS SHALL COMPLY WITH THE REQUIREMENTS OF THE MFP MANUFACTURER (GENERALLY ANODISED ALUMINIUM).
 6. THE STREET NAME SHALL BE PRINTED WITHOUT ANY ABBREVIATIONS. IF THE STREET NAME IS TOO LONG, IT CAN BE PRINTED ON TWO LINES.
 7. THE TEXT SIZE FOR THE STREET NAME AND FOR "POLE/ASSET NUMBER" IS TO BE 13mm TALL. THE TEXT SIZE FOR "PROPERTY OF CITY OF RYDE AND ENQUIRIES: 9952 8222" IS TO BE 5mm.
 8. THE "CITY OF RYDE" LOGO IS TO BE 10mm TALL.
 9. THE ASSET INDEX IS COMPILED VIA THE FOLLOWING RULES:

- STREET LIGHTS
ASSET INDEX (STREET INDEX – 000) IS MADE UP BY COMBINING THE FOLLOWING TWO:
1. STREET INDEX – IS A FOUR-DIGIT NUMBER GIVEN TO EACH STREET BY COUNCIL'S ASSET SYSTEMS DEPARTMENT.
 2. 000 – A THREE-DIGIT SEQUENTIAL NUMBER PROVIDED BY COUNCIL'S ASSET SYSTEMS DEPARTMENT.

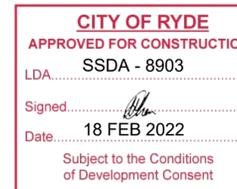


ASSET HANDOVER

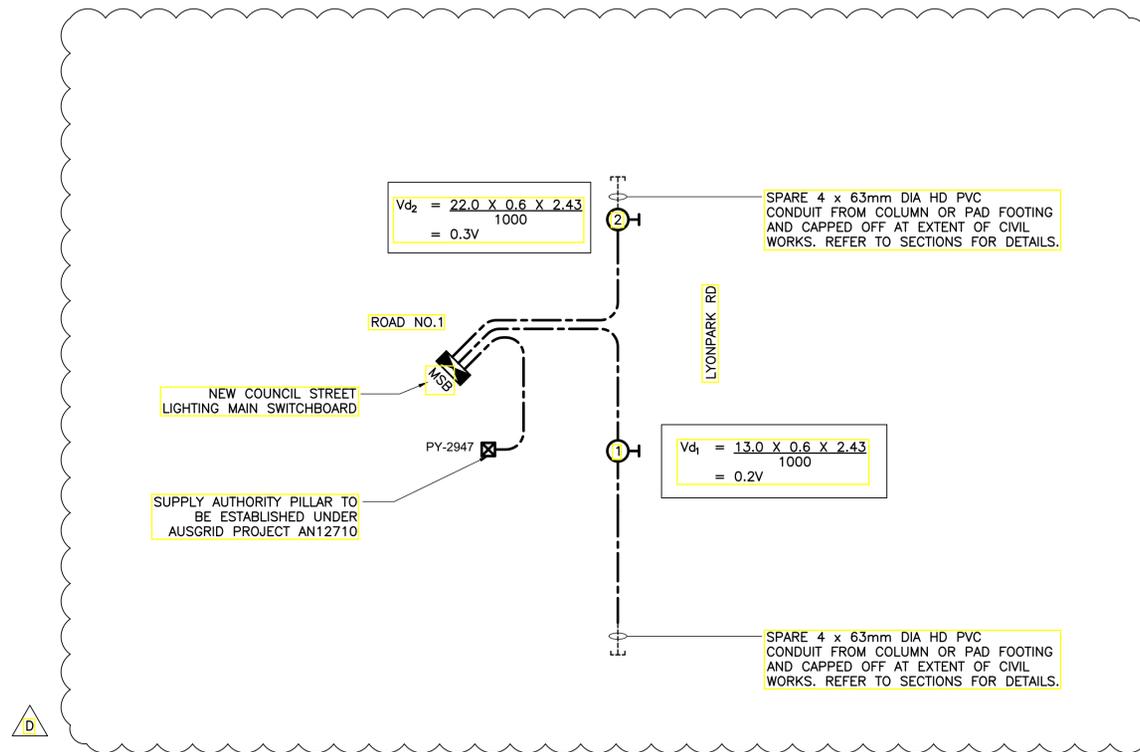
THE FOLLOWING SHALL BE PROVIDED TO COUNCIL PRIOR TO THE HANDOVER OF THE STREET LIGHTING INSTALLATION AND TRANSFER OF ENERGY ACCOUNT FROM THE DEVELOPER TO COUNCIL:

1. CERTIFICATION FROM A CHARTERED STRUCTURAL ENGINEER (REGISTERED ON THE NER OF ENGINEERS AUSTRALIA) CONFIRMING THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH COUNCIL-APPROVED DRAWINGS AND CITY OF RYDE'S STANDARDS AND SPECIFICATIONS. THE CERTIFICATE SHALL CONTAIN PHOTOGRAPHS OF THE WORKS IN PROGRESS AND A COMMENTARY OF THE INSPECTED WORKS, INCLUDING ANY DEFICIENCIES AND RECTIFICATIONS THAT WERE UNDERTAKEN;
2. WORKS AS EXECUTED DRAWINGS;
3. A SET OF ACCESS KEYS
4. MANUFACTURER'S WARRANTIES AND CERTIFICATES;
5. ASSET TAGS ON POLES AND METER BOX AS PER COUNCIL REQUIREMENTS;
6. METER INFORMATION (NMI FROM AUSGRID) AND RELEVANT DETAILS FOR THE TRANSFER OF THE ENERGY ACCOUNT TO COUNCIL NEEDS TO BE COMPLETED ON CCEW;
7. MAC ID FROM NEW 7 PIN NOTE AND WHICH ASSET NUMBER IT HAS BEEN INSTALLED ON IS TO BE RECORDED AND SUPPLIED TO RYDE COUNCIL BEFORE HANDOVER IS COMPLETED.

NOTE: A FINAL INSPECTION FOR THE PURPOSE OF HANDOVER TO COUNCIL SHALL BE CONDUCTED IN CONJUNCTION WITH COUNCIL'S ENGINEER, FOLLOWING THE COMPLETION OF THE WORKS. ADDITIONAL INSPECTIONS, IF REQUIRED, ARE SUBJECT TO ADDITIONAL FEES PAYABLE IN ACCORDANCE WITH COUNCIL'S CURRENT SCHEDULE OF FEES AND CHARGES.



No.	Description	Drn	Ckd	Date	No.	Description	Drn	Ckd	Date	CLIENT:	ELECTRICAL CONSULTING ENGINEERS	PROJECT	DRAWING	DATE	SCALE
A	FOR APPROVAL	EW	DT	04.11.21							 ABN 40 003 331 679 55 Hume Street Crows Nest NSW 2065 Telephone: (02) 9436 3021 Email: mail@shelmerdines.com.au Web: www.shelmerdines.com.au	DETAILED LIGHTING DESIGN LYONPARK ROAD, MACQUARIE PARK	DRAWING ELECTRICAL SERVICES GENERAL NOTES	NOV 2021	AS SHOWN @ A1
B	SWITCHBOARD NOTES DELETED NOTES FROM SHT 6 TRANSFERRED	EW	DT	24.11.21					EW					DT	
C	SWITCHBOARD NOTES ADDED	EW	DT	17.12.21					DRAWING NUMBER 6820-ES-605					ISSUE NUMBER C	



LEGEND

⊗ NEW CITY OF RYDE MFP
No DENOTES ID NUMBER

--- NEW CABLE AND/OR CONDUIT

CIRCUIT DIAGRAM
NOT TO SCALE

CITY OF RYDE
APPROVED FOR CONSTRUCTION
SSDA - 8903
LDA.....
Signed.....
Date..... 18 FEB 2022
Subject to the Conditions
of Development Consent

No.	Description	Drn	Ckd	Date	No.	Description	Drn	Ckd	Date	CLIENT:	ELECTRICAL CONSULTING ENGINEERS	PROJECT	DRAWING	DATE	SCALE
A	FOR APPROVAL	EW	DT	04.11.21							 <small>ABN 40 003 331 679 55 Hume Street Crows Nest NSW 2065</small>	DETAILED LIGHTING DESIGN LYONPARK ROAD, MACQUARIE PARK	ELECTRICAL SERVICES CIRCUIT DIAGRAM	NOV 2021	AS SHOWN @ A1
B	AUSGRID PILLAR NUMBER ADDED	EW	DT	24.11.21					CHECKED						
C	REVISED CIRCUIT DIAGRAM	EW	DT	17.12.21					DT						
D	REVISED CIRCUIT DIAGRAM	EW	DT	14.01.22					ISSUE NUMBER						
														6820-ES-608	D

NOTICE OF INTENTION TO COMMENCE PUBLIC DOMAIN WORKS

About this form

Use this form to advise Council of your intention to commence public domain works.

Before commencing public domain works you must:

- Obtain a development consent and a construction certificate
- Complete this form and give to Council not less than **7 working days** before you intend to start work in the public domain
- Obtain approval from Council's City Works and Infrastructure Directorate, all design drawings for the public domain works
- Obtain the relevant Road Activity Permits under Section 138 of the Roads Act, 1993
- Supply Council with the following documents (at time of submission of this form):
 - Pre-Construction Dilapidation Survey Report of the public infrastructure surrounding the development as required by the DA consent
 - A certified copy of your Principal Contractor's Certificate of Currency (valid for at least 3 months) verifying Public Liability Insurance of at least \$20,000,000
 - A copy of your Principal Contractor's Safety Management Plan
 - A copy of your Principal Contractor's Environmental Management Plan

Lodgement and Fees

There is no fee to lodge this form with Council. The completed form and all required documents are to be forwarded to Council's City Works and Infrastructure Directorate.

Council Contact Details

Customer Service 1 Pope Street, Ryde NSW
Post Locked Bag 2069, North Ryde NSW 1670
Email cityofryde@ryde.nsw.gov.au
Phone (02) 9952 8222
TTY (02) 9952 8470
Fax (02) 9952 8070

PART 1 : APPLICANT DETAILS It is important that we are able to contact you if we need more information.

Company / Organisation	<input type="text"/>	ACN	<input type="text"/>
Title*	<input type="checkbox"/> Mr <input type="checkbox"/> Mrs <input type="checkbox"/> Ms <input type="checkbox"/> Miss	Other	<input type="text"/>
Given Name*	<input type="text"/>	Family Name*	<input type="text"/>
Postal address*	<input type="text"/>		
Suburb*	<input type="text"/>	Postcode*	<input type="text"/>
Mobile	<input type="text"/>	Phone	<input type="text"/>
Email	<input type="text"/>		

PART 2 : SITE DETAILS

Location of Property:			
Unit No.	<input type="text"/>	House No.	<input type="text"/>
Street*	<input type="text"/>		
Suburb*	<input type="text"/>	Postcode*	<input type="text"/>

PART 3 : APPROVED DEVELOPMENT

3. a) Development Consent

LDA No:

Date Approved:

3. b) Construction certificate

Council CC No:

Date Issued:

Certifier CC No:

Date Issued:

3. c) Description of the public domain works

3. d) Date public domain works is to commence

3. e) Expected completion date

PART 4 : COMPLIANCE WITH DEVELOPMENT CONSENT Declaration by the applicant

Public domain works cannot commence until all relevant conditions of the development consent have been met.

I certify that all the conditions required to be satisfied prior to the commencement of works have been satisfied.

Name*

Signature*

Date

PART 5 : SUPERVISING ENGINEER DETAILS

Engineer name*

Company*

Engineer address*

Suburb*

Postcode*

Mobile

Phone

Email

Confirm that Supervising Engineer is registered on the Engineers Australia National Engineering Register

Yes

PART 6 : PRINCIPAL CONTRACTOR DETAILS

Contractor name*

Contractor address*

Suburb*

Postcode*

Mobile

Phone

Email

Contractor License Number:

Public Liability Insurance /Certificate of Currency details:

Policy Holder:

Policy No.:

Principal Contractor's Representative:

Name*

Mobile

Phone

Fax

Public Domain Construction Compliance Checklist

LDA No.		Development Site	
---------	--	------------------	--

Commencement date of public domain works	
Date of public domain compliance inspection	

Developer / Representative Name:	
----------------------------------	--

Organisation:		Contact Phone:	
		E-mail:	

Road Activity permits

Road Opening

Permit No.		Expiry Date:	
------------	--	--------------	--

Road Use

Permit No.		Expiry Date:	
------------	--	--------------	--

Other Permit Permit Type:

Permit No.		Expiry Date:	
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Pedestrian Management

A continuous pedestrian footway along the development frontage has been provided.	YES	NO	N/A
Temporary footways have been appropriately delineated, including appropriate signage in place.	YES	NO	N/A
The development site and any areas within the road reserve which have been closed, have been appropriately barricaded.	YES	NO	N/A
The temporary pedestrian footway along the frontage is clear of obstructions. Eg. Vehicles, construction debris, materials, machinery.	YES	NO	N/A
The pedestrian footway is free of all pedestrian trip hazards, and provides for adequate transition to existing adjacent footways.	YES	NO	N/A
Where applicable, pedestrian management is coordinated with any adjoining development works.	YES	NO	N/A
Where applicable, the pedestrian footway arrangements and signage are in accordance with the approved Pedestrian Management Plan (PMP).	YES	NO	N/A

Traffic Control

Any obstructions to the traffic flow are appropriately managed in accordance with the Traffic Management Plan. (TMP)	YES	NO	N/A
Any permitted road or footpath closures are appropriately barricaded and sign posted.	YES	NO	N/A
The road pavement within the vicinity of the development site is adequately maintained to provide for safe and functional use by road users.	YES	NO	N/A

Construction Traffic Management

Construction vehicles are observed to be entering and exiting the site in accordance with the route specified within Construction Traffic Management Plan (CTMP)	YES	NO	N/A
Pedestrians and construction vehicles are adequately separated. There are no construction vehicles obstructing the dedicated pedestrian footway or roadway.	YES	NO	N/A

Environmental Management

Sediment and erosions controls are in place as specified within the Environmental Management Plan. (EMP)	YES	NO	N/A
There is no significant migration of construction residue beyond the construction site.			

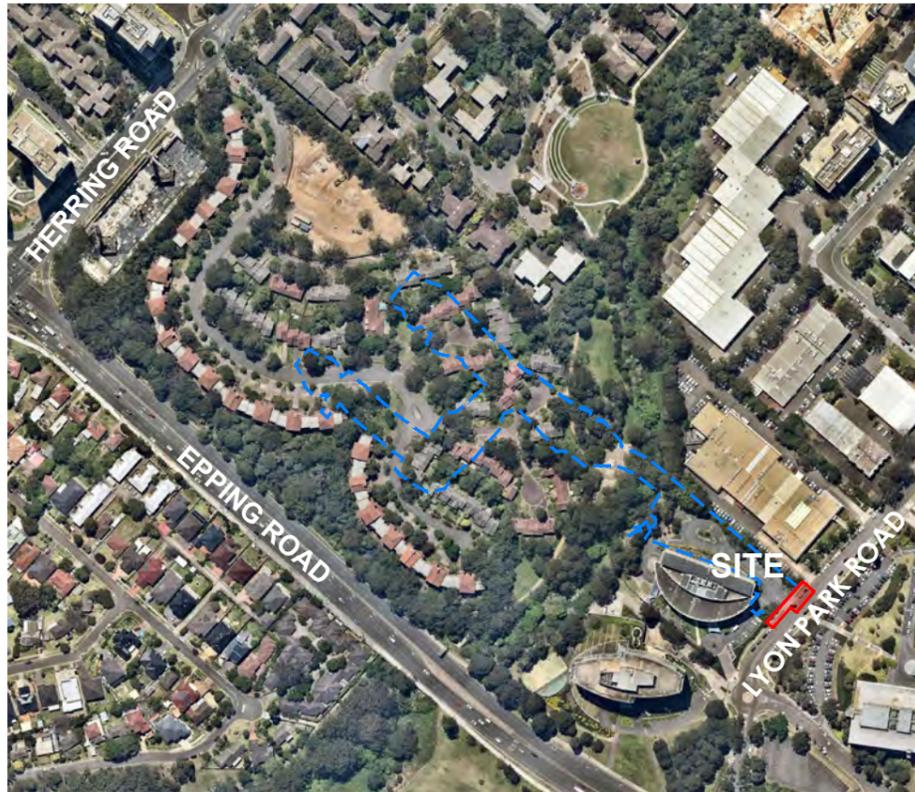
Details of Non-Compliance:

Rectifications Works Required / Timeframes:

Referral of Non-Compliances

Council Team	Date of Referral	Document Reference No.
Transport		
Rangers		
Building Compliance		

ENGINEERING PLANS OF INFRASTRUCTURE WORKS S138 ROADS ACT APPROVAL LYONPARK ROAD, MACQUARIE PARK, SSDA 8903



LOCALITY SKETCH
NOT TO SCALE

INDEX OF DRAWINGS

DRAWING No.	NAME
300001(S138)-ENG-001	COVER SHEET, INDEX OF DRAWINGS & LOCALITY SKETCH
300001(S138)-ENG-002	GENERAL NOTES
300001(S138)-ENG-003	OVERALL SITE PLAN
300001(S138)-ENG-004	SURVEY SETOUT PLAN
300001(S138)-ENG-101	DETAIL PLAN
300001(S138)-ENG-151	PAVEMENT PLAN & DETAILS
300001(S138)-ENG-201	ROAD LONGITUDINAL SECTION - ROAD No.01
300001(S138)-ENG-202	DRIVEWAY LONGITUDINAL SECTION - DRIVEWAY No.3
300001(S138)-ENG-211	KERB RETURN LONGITUDINAL SECTIONS - KR103 & KR103A
300001(S138)-ENG-212	KERB RETURN LONGITUDINAL SECTIONS - KR10 & KR11
300001(S138)-ENG-401	STORMWATER CATCHMENT PLAN
300001(S138)-ENG-411	STORMWATER CALCULATION CHARTS - 20 & 100 YEAR A.R.I. & PIT LPR 111 SETOUT PLAN
300001(S138)-ENG-701	PROPOSED VEHICLE SWEEP PATH PLAN - SHEET 1
300001(S138)-ENG-702	PROPOSED VEHICLE SWEEP PATH PLAN - SHEET 2
300001(S138)-ENG-703	PROPOSED VEHICLE SWEEP PATH PLAN - SHEET 3
300001(S138)-ENG-751	LINEMARKING & SIGNAGE PLAN
300001(S138)-ENG-901	SERVICES RELOCATION PLAN
300001(S138)-ENG-902	SERVICES RELOCATION SECTIONS

CITY OF RYDE
APPROVED FOR CONSTRUCTION

Signed.....*[Signature]*.....
Date.....18/02/2022.....

**Subject to the Conditions
of Development Consent**

SSD 8903



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	14.02.2022	CONSTRUCTION ISSUE	B.M.	J.J.	N.D.	B.M.	

adw
Johnson

Central Coast
5 Pioneer Avenue,
P.O. Box 3717,
Tuggerah N.S.W. 2259
Phone: (02) 4305 4300
Fax: (02) 4305 4399
email: coast@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398



PROPERTY DESCRIPTION	
LYONPARK ROAD, MACQUARIE PARK SSDA 8903	
SURVEYED	DATUM
ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT			
NEW ROAD CONNECTION			
PLAN TITLE			
COVER SHEET, INDEX OF DRAWINGS & LOCALITY SKETCH			
PROJECT No.	DISCIPLINE	NUMBER	REV.
300001(S138) -	ENG	001	1

RYDE CITY COUNCIL

GENERAL:

- ALL MATERIALS AND PRODUCTS FOR INSTALLATION AND CONSTRUCTION SHALL COMPLY WITH AUSTRALIAN STANDARDS. MONITORING TESTING ("STRING LINE" AND "ROLL") WHERE SPECIFIED BY COUNCIL'S MANUAL OF ENGINEERING STANDARDS, TO BE PERFORMED BY COUNCIL, SHALL BE ARRANGED **24 HOURS** IN ADVANCE. WHERE A COUNCIL OFFICER IS NOT AVAILABLE, A GEOTECHNICAL ENGINEER MAY PERFORM SUCH TESTS.
- ALL TREES WITHIN THE ALLOTMENT AND RESERVES (OTHER THAN ROAD RESERVES) SHALL BE RETAINED, UNLESS OTHERWISE NOMINATED.

TRAFFIC CONTROL:

- TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE RMS DOCUMENT "TRAFFIC CONTROL AT WORKSITES".

PAVEMENT:

- PROVISION SHOULD BE MADE FOR SUITABLE PROTECTION OF THE EXISTING ROAD PAVEMENTS, KERB AND GUTTER AND FOOTPATH FORMATION. VEHICULAR ACCESS TO ALL SERVICES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS, SHALL BE MAINTAINED AT ALL TIMES.

STORMWATER:

- SUBSOIL DRAINS SHALL BE PROVIDED IN ACCORDANCE WITH COUNCILS STANDARDS, ADDITIONAL DRAINS SHALL BE PROVIDED WHERE CONSIDERED NECESSARY, BY COUNCIL OR A GEOTECHNICAL ENGINEER.

SEDIMENT & EROSION CONTROL:

- ALL SILT CONTROL MEASURES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF EARTHWORKS. SUCH MEASURES SHALL BE SUBJECT TO FURTHER ADDITIONS, WHERE CONSIDERED NECESSARY, AS DIRECTED BY THE PROJECT MANAGER OR COUNCIL, DURING THE PROGRESSIONS OF WORKS. ALL FINAL EROSION PREVENTION MEASURES INCLUDING ESTABLISHMENT OF GRASS SHALL BE COMPLETED PRIOR TO THE "FINAL" INSPECTION.

GENERAL

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED PLANS, SUBJECT TO RYDE COUNCIL DCP 2014 SECTIONS 8.1, 8.2 + 8.5, MACQUARIE PARK CORRIDOR TECHNICAL MANUAL, COUNCIL STANDARD DRAWINGS AND RELEVANT AUSTRALIAN STANDARDS.
- SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS, AND ELECTRONIC 12d DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY, THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION WILL BE PROVIDED IN WRITING BEFORE PROCEEDING.
- THE DRAWINGS ARE A DIAGRAMMATIC REPRESENTATION OF THE WORK TO BE CARRIED OUT ONLY, AND DIMENSIONS SHALL NOT BE OBTAINED BY SCALING.
- ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCHMARKS TO THE **AUSTRALIAN HEIGHT DATUM (A.H.D.)**.
- POINTS OF CONFLICT BETWEEN NEW CONSTRUCTION AND EXISTING UTILITY SERVICE MAINS SHALL BE IDENTIFIED, EXPOSED AND REPORTED TO THE PROJECT MANAGER PRIOR TO CONSTRUCTION. SERVICE CONDUITS SHALL BE LAID IN POSITIONS AS APPROVED BY THE RELEVANT AUTHORITY.
- ALL MATERIALS AND PRODUCTS FOR INSTALLATION AND CONSTRUCTION SHALL COMPLY WITH AUSTRALIAN STANDARDS.
- THE INSPECTION, SUPERVISION AND REPORTING REQUIREMENTS OF A SUITABLY QUALIFIED ECOLOGIST REGARDING THE REMOVAL AND RELOCATION OF ANY THREATENED FAUNA SPECIES SHALL BE UNDERTAKEN AS PER RELEVANT CONDITIONS OF CONSENT.
- SAFE OPERATION OF EXISTING PROPERTIES TO BE MAINTAINED AT ALL TIMES.

SURVEYING

- SURVEY BY: ADW JOHNSON PTY LTD
- ORIGIN OF COORDINATES: GDA94 MGA56 BENCH MARK P.M.50023 E:325216.337 N:6260317.86 RL:80.785 AHD
- ALL LEVELS SHOWN ARE A.H.D. GDA94

GEOTECHNICAL

1. GEOTECHNICAL INVESTIGATION PERFORMED BY:
DOUGLAS PARTNERS - REFERENCE 86043.01
DATED: DECEMBER 2019

REFER TO THE AFOREMENTIONED REPORT DURING CONSTRUCTION.

EARTHWORKS & REGRADING

- SITE REGRADE AREA IS TO BE DRAINED IF REQUIRED AND ALL EXISTING VEGETATION REMOVED.
- ALL TOPSOIL AND UNSUITABLE MATERIAL WILL BE REMOVED PRIOR TO PLACEMENT OF EXCESS MATERIAL FROM ROAD EXCAVATION IN ACCORDANCE WITH DIRECTIONS FROM GEOTECHNICAL ENGINEER.
- MAXIMUM NOMINATED THICKNESS OF FILL LAYER
 - 150mm IN ROAD RESERVE AREAS
 - 300mm IN OTHER AREAS
- MINIMUM NOMINATED COMPACTION OF FILL
 - 98% STANDARD IN ROAD RESERVE AREAS
 - 95% STANDARD IN OTHER AREAS
- COMPACTION OF EARTHWORKS ASSOCIATED WITHIN LOTS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH **AS 3798-1996** AND A REPORT SUBMITTED TO THE PRINCIPAL CERTIFYING AUTHORITY WITH DOCUMENTATION ACCOMPANYING THE RESPECTIVE COMPLIANCE CERTIFICATE APPLICATION.
- ALL SITE REGRADE TO BE CONTROL FILL IN ACCORDANCE WITH GEOTECHNICAL ENGINEERS DIRECTION.
- WHERE PRACTICAL CATCHDRAINS ARE TO BE CONSTRUCTED UPLOPE OF THE SITE REGRADE TO DIVERT CLEAN SURFACE WATER.

STORMWATER

- ALL STORMWATER PITS DEEPER THAN 1.0m TO HAVE STEP IRONS.
- PRECAST PITS TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATION.
- ALL INTERALLOTMENT DRAINAGE PITS TO BE PROVIDED WITH HINGED, LOCKABLE GRATES.
- ALL RCP STORMWATER PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS INDICATED OTHERWISE.
- ALL STORMWATER PITS AND PIPES TO BE INSTALLED IN ACCORDANCE WITH RYDE COUNCIL STANDARD DRAWINGS.
- ALL STORMWATER PITS TO HAVE MINIMUM 35mm MASS CONCRETE BENCH AS PER COUNCIL STANDARD DRAWING.

EROSION & SEDIMENT CONTROL

- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSISTENT WITH THE NSW GOVERNMENT'S "MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION".
- THE ARRANGEMENT SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. AMENDMENTS MAY NEED TO BE MADE DURING CONSTRUCTION.
- ALL SEDIMENT AND EROSION CONTROL MEASURES, INCLUDING BASINS AND DIVERSION DRAINS, ARE TO BE IN PLACE PRIOR TO STRIPPING OF SITE.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL COMPLETE REHABILITATION IS ACHIEVED.
- STOCKPILE AREA TO BE FULLY FENCED WITH SILT PROOF FABRIC AT ALL TIMES.
- IMPORTED MATERIAL TO BE PLACED DIRECTLY INTO SITE REGRADING AREAS. IMPORTED MATERIAL IS NOT TO BE STOCKPILED.
- STOCKPILES ARE TO BE REMOVED AS SOON AS PRACTICABLE AND SITES REINSTATED AS SOON AS POSSIBLE.
- STOCKPILES OF MATERIAL ARE TO BE PLACED AWAY FROM DRAINAGE FLOW PATHS AND HEAVILY TRAFFICABLE AREAS AND ARE TO BE SURROUNDED BY SILT FENCING AT ALL TIMES.
- PROTECT ALL DISTURBED AREAS FROM EROSION.
- MINIMISE SEDIMENTATION.
- CONSTRUCT STABILISED EARTH BERMS TO DIRECT CLEAN RUNOFF FROM ENTERING THE DISTURBED SITE
- CONSTRUCT STABILISED DIVERSION BANKS TO COLLECT RUNOFF FROM DISTURBED AREAS AND DIRECT IT TO A SEDIMENT CONTROL PIT.
- ERECT AND MAINTAIN SILT FENCES AT THE DOWNSLOPE SIDE OF DISTURBED AREAS DURING CONSTRUCTION.
- PLACE SEDIMENT INLET TRAPS AROUND ALL PITS WITHIN, AND DOWNSTREAM OF, THE DEVELOPMENT.
- PROVIDE GRAVEL BAGS AS REQUIRED.
- SILT FENCES AND HAY BALING TO BE PLACED WHERE DIRECTED BY COUNCIL'S ENGINEER AND MAINTAINED AT ALL TIMES.
- ALL DISTURBED AREAS ARE TO BE STABILISED IMMEDIATELY UPON FINISHING CONSTRUCTION ON THAT AREA WITH BITUMEN STABILIZED STRAW MULCH.
- WHERE EVIDENCE OF SILT LEAVING THE SITE IS FOUND, CONTRACTOR IS TO CLEAR ALL SEDIMENT (INCLUDING THAT IN STORMWATER INFRASTRUCTURE) AT THEIR OWN COST.
- FOLLOWING RAIN EVENTS, ALL SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE AUDITED AND REINSTATED IF NECESSARY.
- CONTROL CLEAN WATER FROM ABOVE THE SITE, THROUGH THE SITE.
- KEEP CLEAN WATER SEPARATE FROM DIRTY WATER.
- KEEP RUNOFF FROM DISTURBED AREAS, WHERE POSSIBLE, SEPARATE FROM DIRTY WATER.
- ALL DISTURBED AREAS ARE TO BE RE-VEGETATED OR OTHERWISE PROTECTED AS SOON AS PRACTICAL.
- AREAS OUTSIDE THE BOUNDARIES OF THE PROPOSED DEVELOPMENT WILL BE FENCED WITH NO GO FENCING TO KEEP THE AREAS FREE FROM DISTURBANCE OF MACHINERY, PARKED VEHICLES AND WASTE MATERIAL.

CITY OF RYDE
APPROVED FOR CONSTRUCTION

Signed.....*[Signature]*.....
Date.....18/02/2022.....

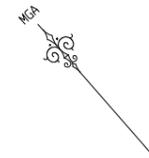
**Subject to the Conditions
of Development Consent**

SSD 8903



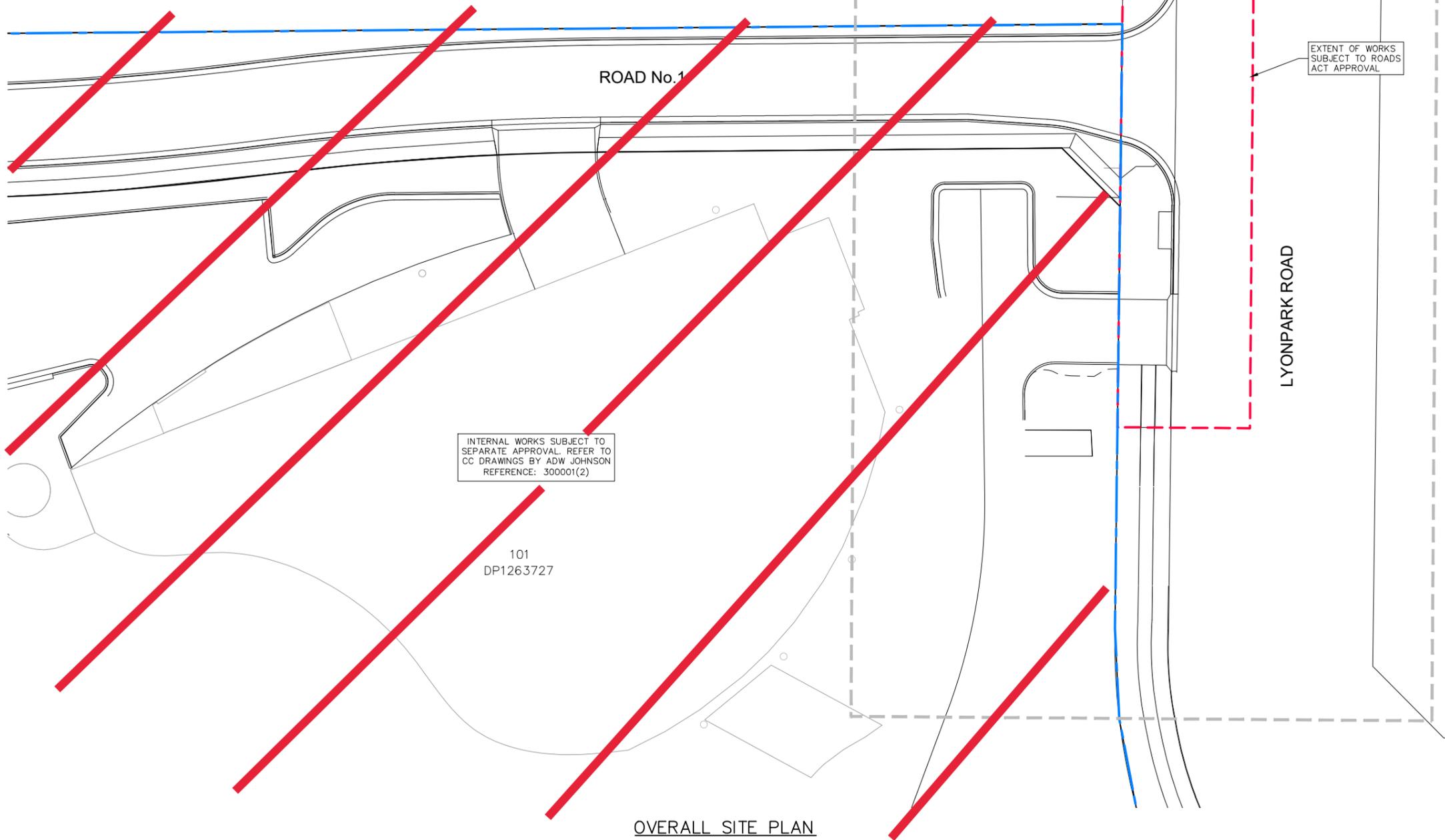
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES				
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Plotted By: Jacob Jackson Plot Date: 14/02/22 1:49:05PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\S138\300001(S138)-ENG-002.DWG						Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398				CLIENT LYONPARK ROAD, MACQUARIE PARK SSDA 8903	
PROPERTY DESCRIPTION			PROJECT			NEW ROAD CONNECTION					
			PLAN TITLE			GENERAL NOTES					
SURVEYED			DATUM			PROJECT No.		DISCIPLINE		NUMBER	REV.
ADW Johnson			GDA94 M.G.A. ZONE 56 A.H.D.			300001(S138) -		ENG -		002	1



LEGEND	
	SITE BOUNDARY
	LIMIT OF WORKS BOUNDARY
	PROPOSED LOT BOUNDARY
	EXISTING LOT BOUNDARY
	FUTURE WORKS

INTERNAL DETAILS NOT PART OF THIS APPROVAL



OVERALL SITE PLAN
SCALE 1:200

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed:
Date: 18/02/2022
Subject to the Conditions
of Development Consent

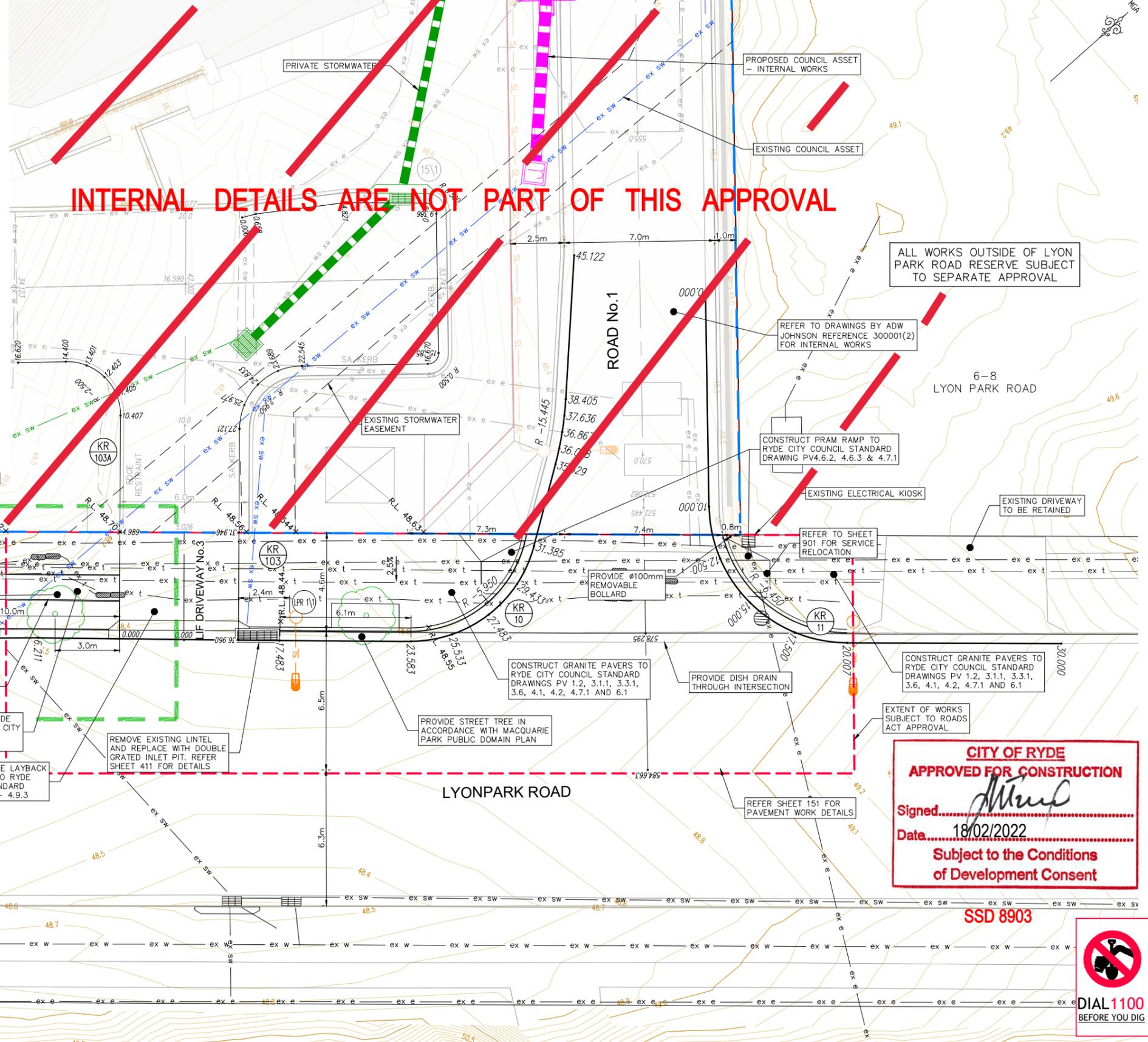
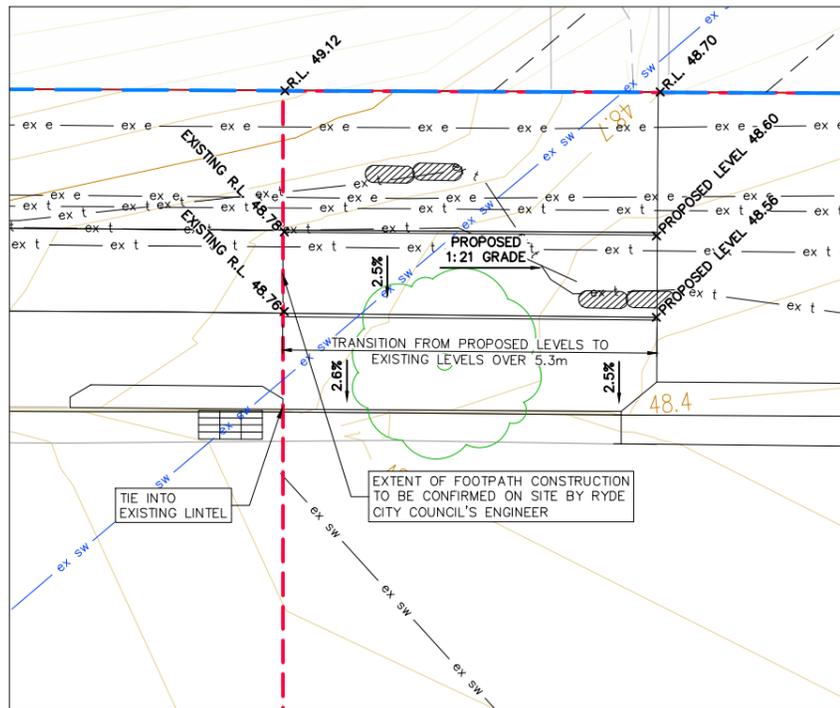


SSD 8903

CONSTRUCTION ISSUE

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT	 FRASERS PROPERTY	PROPERTY DESCRIPTION		PROJECT				
1	14.02.2022	CONSTRUCTION ISSUE	B.M.	J.J.	N.D.	B.M.	 A1 1:200 A3 1:400		Central Coast		LYONPARK ROAD, MACQUARIE PARK SSDA 8903	NEW ROAD CONNECTION					
											PLAN TITLE		OVERALL SITE PLAN				
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Plotted By: Jacob Jackson Plot Date: 14/02/22 1:49:25PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\138\300001(S138)-ENG-003.DWG						ADW Johnson		GDA94 M.G.A. ZONE 56 A.H.D.		300001(S138) -		ENG -		003		1	



CAUTION:
1. IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.

LEGEND

- LIMIT OF WORKS BOUNDARY
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- MAJOR CONTOURS
- MINOR CONTOURS
- PROPOSED KERB
- EXISTING KERB
- EXTENTS OF BATTER
- PROPOSED PAVED FOOTPATH
- PROPOSED CONCRETE FOOTPATH
- PROPOSED RETAINING WALL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- PRIVATE STORMWATER
- PRIVATE STORMWATER
- EXISTING COUNCIL ASSET
- PROPOSED COUNCIL ASSET - INTERNAL WORKS
- EXISTING STORMWATER EASEMENT
- PROPOSED SW PIT
- PROPOSED LINTEL
- PROPOSED HEADWALL
- PIT LABEL
- PROPOSED TREE TO RYDE CITY COUNCIL STANDARDS

IDENTIFIED RISK/HAZARD

1. CONTRACTOR IS TO IDENTIFY AND RELOCATE ANY SERVICES WITHIN CARPARK AREA.

CITY OF RYDE
APPROVED FOR CONSTRUCTION

Signed.....
Date..... 18/02/2022

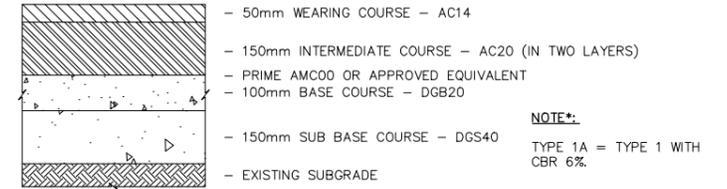
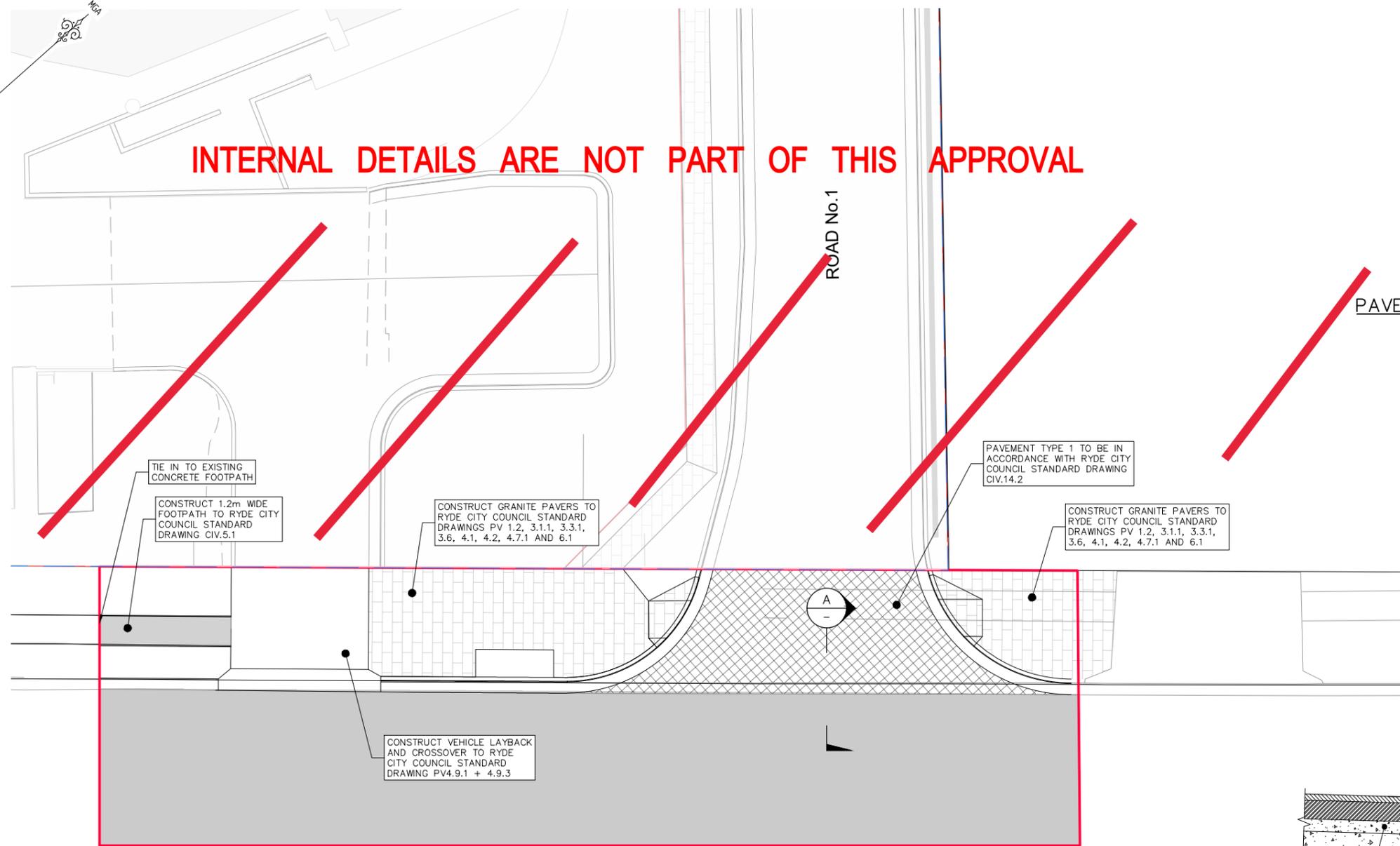
Subject to the Conditions of Development Consent



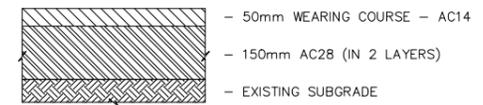
REV. 1	DATE 14.02.2022	AMENDMENT CONSTRUCTION ISSUE	DESIGN B.M.	DRAWN J.J.	CHECKED N.D.	APPROVED B.M.	SCALES	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 CLIENT LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROPERTY DESCRIPTION	PROJECT	PROJECT No.	DISCIPLINE	NUMBER	REV.
							A1 1:100 0 2.5 5.0m A3 1:200 A1 1:50 0 1.25 2.5m A3 1:100			SURVEYED ADW Johnson DATUM GDA94 M.G.A. ZONE 56 A.H.D.	NEW ROAD CONNECTION DETAIL PLAN	300001(S138) - ENG - 101 1			

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

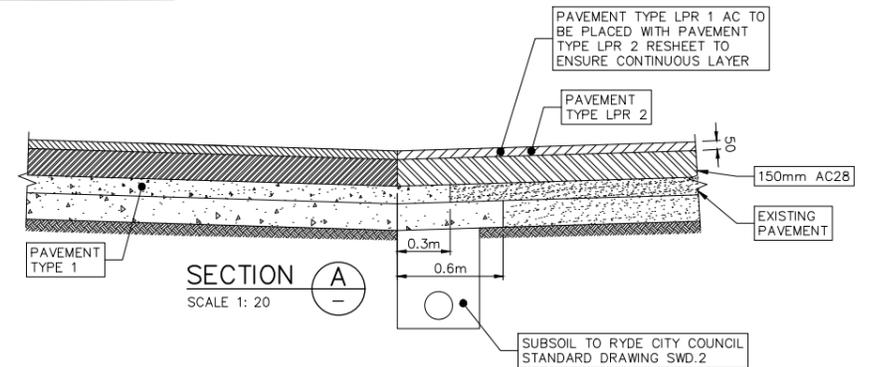
INTERNAL DETAILS ARE NOT PART OF THIS APPROVAL



PAVEMENT TYPE 1 – STANDARD ROAD PAVEMENT*
N.T.S.



PAVEMENT TYPE LPR 2
N.T.S.



LYONPARK ROAD

PAVEMENT PLAN
SCALE 1:100

LEGEND

- LIMIT OF WORKS BOUNDARY
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- PROPOSED KERB
- EXISTING KERB
- PROPOSED PAVED FOOTPATH
- PROPOSED CONCRETE FOOTPATH
- PROPOSED RETAINING WALL
- PAVEMENT TYPE 1 EXTENT STANDARD ROAD PAVEMENT
- PAVEMENT TYPE LPR 1 EXTENT STANDARD ROAD PAVEMENT
- PAVEMENT TYPE LPR 2 EXTENT MILL AND RESHEET

- GENERAL NOTES: -**
- SETOUT INFORMATION IS TO BE VERIFIED BY THE CONTRACTOR AGAINST THE PLAN VIEW, LONGITUDINAL SECTIONS AND ELECTRONIC 12D DATA BEFORE BEING USED. IF THERE IS A DISCREPANCY THE SUPERINTENDENT IS TO BE NOTIFIED AND DIRECTION TO BE PROVIDED IN WRITING BEFORE PROCEEDING.
 - PAVEMENT DESIGNS BASED UPON REPORTS PREPARED BY DOUGLAS PARTNERS REFERENCES "86043.10" DATED JUNE 2021 "86043.03" DATED 13 AUGUST 2020 & "86043.11.Rev0" DATED 12TH AUGUST 2021.
 - PAVEMENT TO BE CONSTRUCTED IN ACCORDANCE WITH THE ABOVEMENTIONED REPORT. SUBJECT TO ONSITE TESTING AND VERIFICATION.

NOTE:
A15 POLYMER BINDER TO BE APPLIED TO ALL NEW AC WORKS.

CITY OF RYDE
APPROVED FOR CONSTRUCTION

Signed.....*[Signature]*.....
Date.....18/02/2022.....

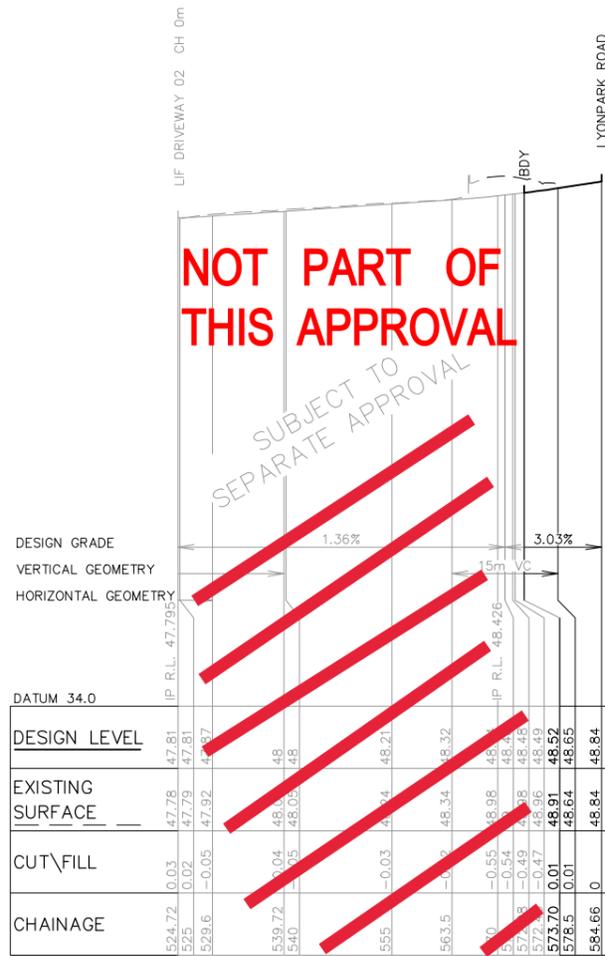
Subject to the Conditions of Development Consent



SSD 8903 CONSTRUCTION ISSUE

REV. 1	DATE 14.02.2022	AMENDMENT CONSTRUCTION ISSUE	DESIGN B.M.	DRAWN J.J.	CHECKED N.D.	APPROVED B.M.	SCALES A1 1:100 A3 1:200 A1 1:20 A3 1:40	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT NEW ROAD CONNECTION	PLAN TITLE PAVEMENT PLAN & DETAILS	SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(S138) -	DISCIPLINE ENG	NUMBER 151	REV. 1
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LONGITUDINAL SECTION ROAD No.1
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

CITY OF RYDE
APPROVED FOR CONSTRUCTION

Signed.....*[Signature]*.....
Date.....18/02/2022.....

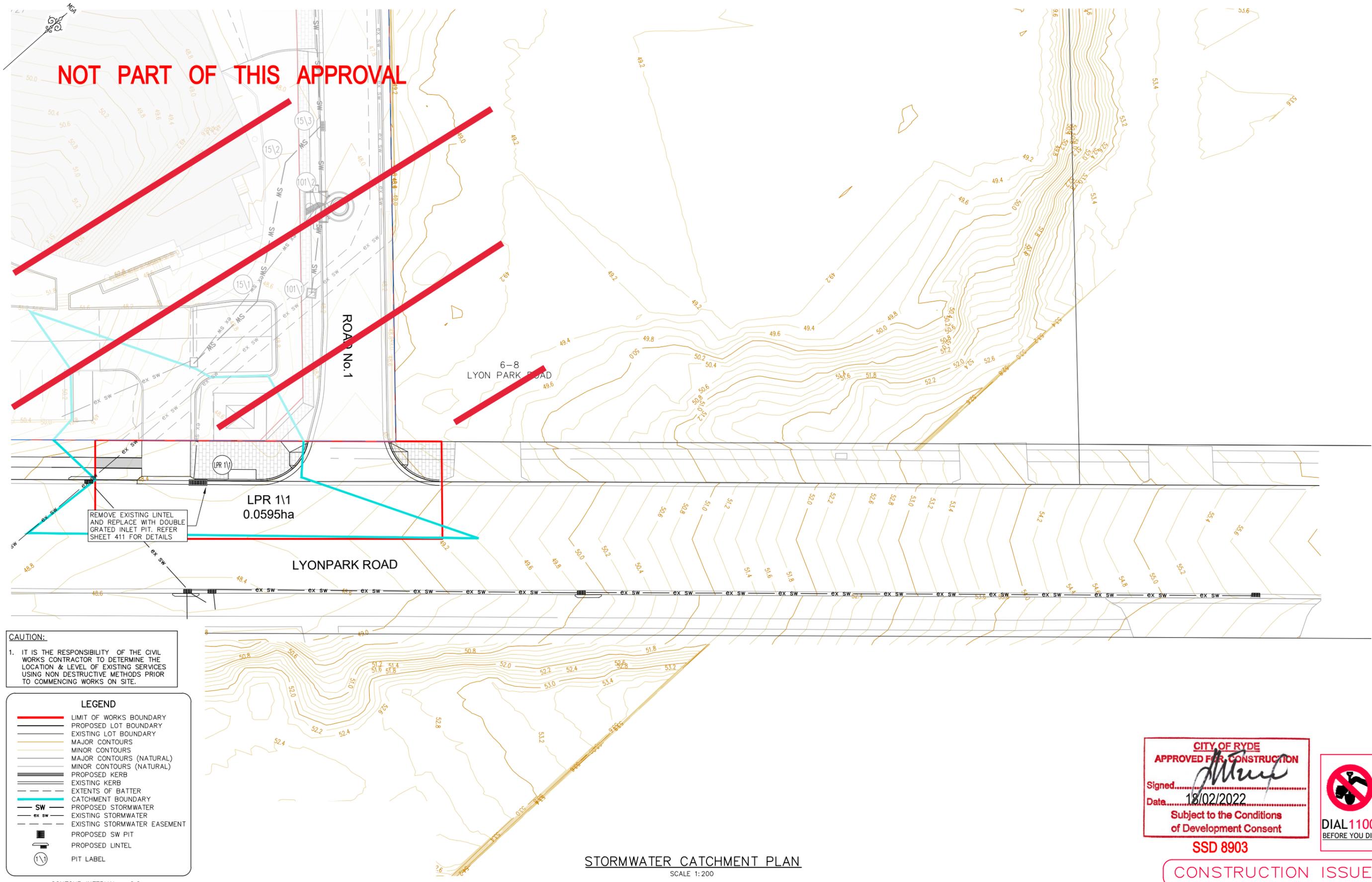
**Subject to the Conditions
of Development Consent**

SSD 8903



CONSTRUCTION ISSUE

REV. 1	DATE 14.02.2022	AMENDMENT CONSTRUCTION ISSUE	DESIGN B.M.	DRAWN J.J.	CHECKED N.D.	APPROVED B.M.	SCALES A1 1:500 A3 1:1000 A1 1:100 A3 1:200	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 CLIENT	PROPERTY DESCRIPTION LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT NEW ROAD CONNECTION	PLAN TITLE ROAD LONGITUDINAL SECTION ROAD No.01				
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STORMWATER CATCHMENT PLAN
SCALE 1:200

CAUTION:
1. IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.

LEGEND	
	LIMIT OF WORKS BOUNDARY
	PROPOSED LOT BOUNDARY
	EXISTING LOT BOUNDARY
	MAJOR CONTOURS
	MINOR CONTOURS
	MAJOR CONTOURS (NATURAL)
	MINOR CONTOURS (NATURAL)
	PROPOSED KERB
	EXISTING KERB
	EXTENTS OF BATTER
	CATCHMENT BOUNDARY
	PROPOSED STORMWATER
	EXISTING STORMWATER
	EXISTING STORMWATER EASEMENT
	PROPOSED SW PIT
	PROPOSED LINTEL
	PIT LABEL

CITY OF RYDE
APPROVED FOR CONSTRUCTION
Signed: *[Signature]*
Date: 18/02/2022
Subject to the Conditions
of Development Consent



SSD 8903

CONSTRUCTION ISSUE

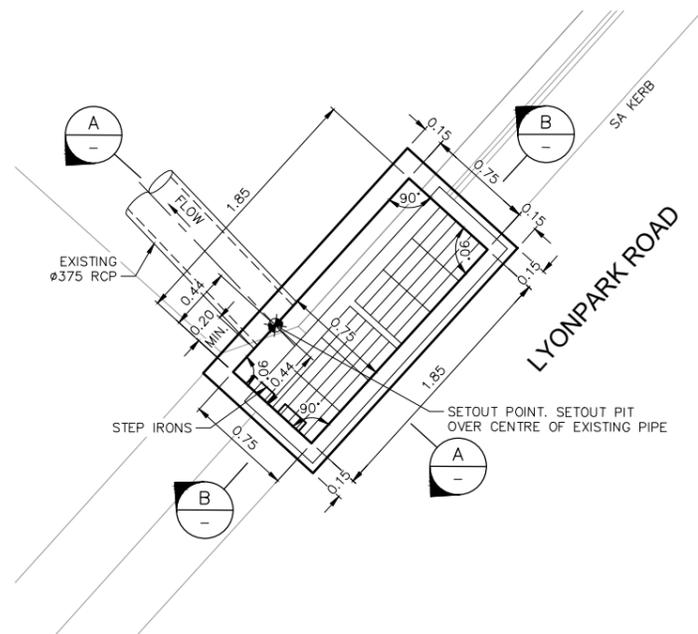
REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT							
1	14.02.2022	CONSTRUCTION ISSUE	B.M.	J.J.	N.D.	B.M.	A1 1:200			 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LYONPARK ROAD, MACQUARIE PARK SSDA 8903	NEW ROAD CONNECTION					
												PLAN TITLE STORMWATER CATCHMENT PLAN					
DESIGN FILE		S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE\project		ALL DIMENSIONS ARE IN METRES. DO NOT SCALE						PROJECT No.		DISCIPLINE		NUMBER		REV.	
Plotted By: Jacob Jackson		Plot Date: 14/02/22 1:52:25PM		Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\S138\300001(S138)-ENG-401.DWG				ADW Johnson		GDA94 M.G.A. ZONE 56 A.H.D.		300001(S138) - ENG		- 401		1	

20 YEAR HYDROLOGICAL DESIGN																							
PIT NAME	PIT DETAILS	AREA	MPER	PER	ICIMPER	ICPER	INTENSITY	RUNOFF C IMPER	RUNOFF C PER	CRITICAL SUM CATCHMENT CA	BYPASS ARRIVING	TOTAL FLOW @ PIT	PIT INLET FLOW	PIT BYPASS FLOW	BYPASS PIT	Ku	GLITTER SLOPE	FLOODED DEPTH	FLOW WIDTH	VELOCITY	MAX POND DEPTH	CHOKI FACTOR	NOTES
		ha	%	%	min	min	mm/hr			L/s	L/s	L/s	L/s	L/s		%	m	m	m	m/s	m		
LPR 1\1	900 x 900 VGRATE	0.0595	75	25	5	5	195	0.945	0.9367	0.05	27	0	27	27	0	3.6	0.06	0.4	0.14			1	

100 YEAR HYDROLOGICAL DESIGN																							
PIT NAME	PIT DETAILS	AREA	MPER	PER	ICIMPER	ICPER	INTENSITY	RUNOFF C IMPER	RUNOFF C PER	CRITICAL SUM CATCHMENT CA	BYPASS ARRIVING	TOTAL FLOW @ PIT	PIT INLET FLOW	PIT BYPASS FLOW	BYPASS PIT	Ku	GLITTER SLOPE	FLOODED DEPTH	FLOW WIDTH	VELOCITY	MAX POND DEPTH	CHOKI FACTOR	NOTES
		ha	%	%	min	min	mm/hr			L/s	L/s	L/s	L/s	L/s		%	m	m	m	m/s	m		
LPR 1\1	900 x 900 VGRATE	0.0595	75	25	5	5	247	1	0.6128	0.054	37	0	37	37	0	3.6	0.06	0.45	0.16			0.8	

NOTES: -

1. ALL STORMWATER PITS TO BE CONSTRUCTED IN ACCORDANCE WITH RYDE COUNCILS ENGINEERING CONSTRUCTION SPECIFICATION.
2. ALL PITS DEEPER THAN 1.0m TO HAVE STEP IRONS.
3. ALL STORMWATER PIPE CLASSES ARE TO COMPLY WITH COUNCILS DESIGN AND CONSTRUCTION SPECIFICATIONS. IF THERE ARE DISCREPANCIES BETWEEN COUNCILS SPECIFICATIONS AND THE APPROVED CONSTRUCTION CERTIFICATE PLANS PLEASE NOTIFY THE SUPERINTENDENT IMMEDIATELY. IT IS THE CONTRACTORS RESPONSIBILITY TO USE THE APPROPRIATE CONSTRUCTION METHODOLOGY TO COMPACT AROUND/OVER STORMWATER PIPES AND ENSURE NO CRACKING OF THE STORMWATER PIPES OCCURS.
4. PITS DEEPER THAN 2.5m TO BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL ENGINEERS DESIGN.
5. REFER TO DRAWINGS PREPARED BY RARI FOR SEWER DETAILS.
6. ALL GRATES TO HAVE CHILD PROOF LOCK DOWN SYSTEM INSTALLED.

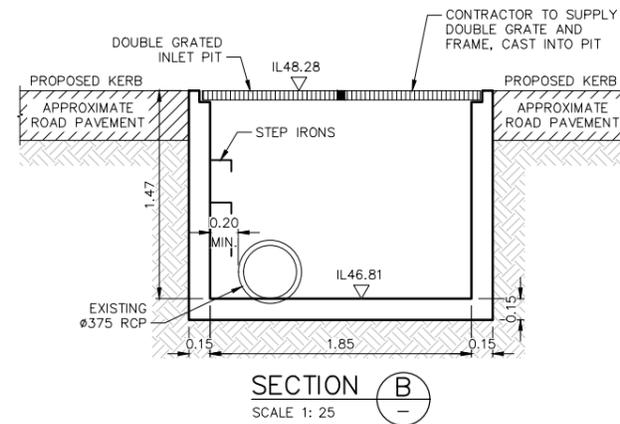


SETOUT PLAN - PIT LPR 1\1

SCALE 1:25

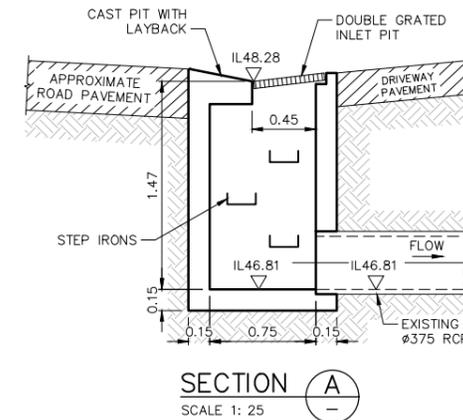
NOTE:

1. REINFORCEMENT OF PIT TO BE IN ACCORDANCE WITH RYDE CITY COUNCIL STD DRAWING SWD.1.2.1.



SECTION B

SCALE 1:25



SECTION A

SCALE 1:25

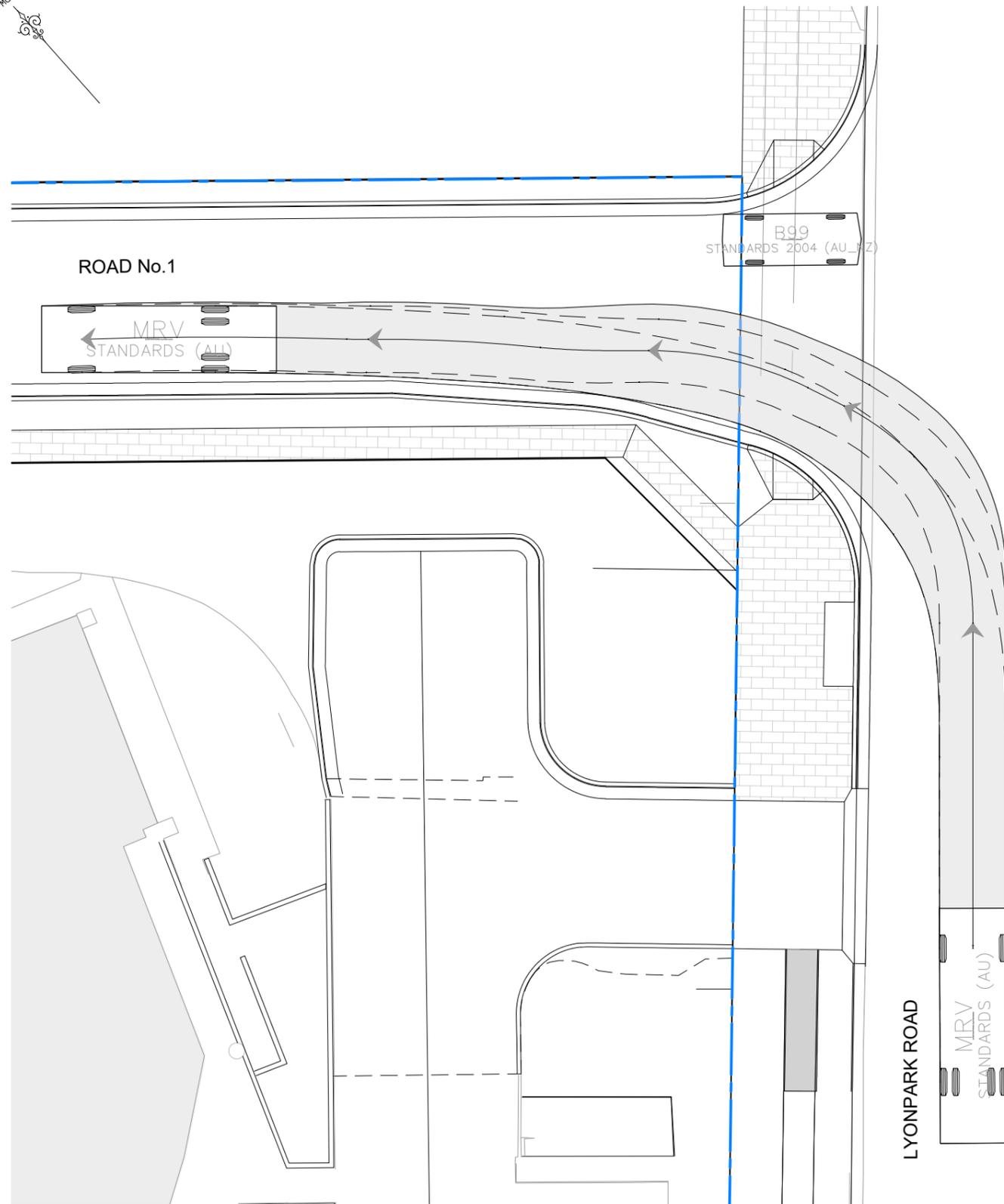
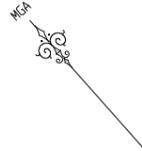
CITY OF RYDE
APPROVED FOR CONSTRUCTION
 Signed: *[Signature]*
 Date: 18/02/2022
 Subject to the Conditions of Development Consent



SSD 8903

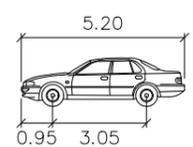
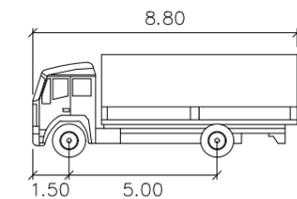
CONSTRUCTION ISSUE

REV. 1	DATE 14.02.2022	AMENDMENT CONSTRUCTION ISSUE	DESIGN B.M.	DRAWN J.J.	CHECKED N.D.	APPROVED B.M.	SCALES A1 1:25, A3 1:50		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION LYONPARK ROAD, MACQUARIE PARK SSSA 8903	PROJECT NEW ROAD CONNECTION PLAN TITLE STORMWATER CALCULATION CHARTS 20 & 100 YEAR A.R.I. & CUSTOM PIT LPR 111 SETOUT PLAN	PROJECT No. 300001(S138) - ENG - 411 DISCIPLINE - NUMBER - REV. 1
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LEGEND	
	LIMIT OF WORKS BOUNDARY
	PROPOSED LOT BOUNDARY
	EXISTING LOT BOUNDARY
	PROPOSED KERB
	EXISTING KERB

CAUTION:
 1. SWEEP PATHS BASED UPON DRIVING SPEED OF 10KM/H.



MRV	units	B99	units
Width	: 2.50	Width	: 1.94
Track	: 2.50	Track	: 1.84
Lock to Lock Time	: 6.0	Lock to Lock Time	: 6.0
Steering Angle	: 34.0	Steering Angle	: 33.9

PROPOSED SWEEP PATH PLAN – MRV + B99
 SCALE 1:100

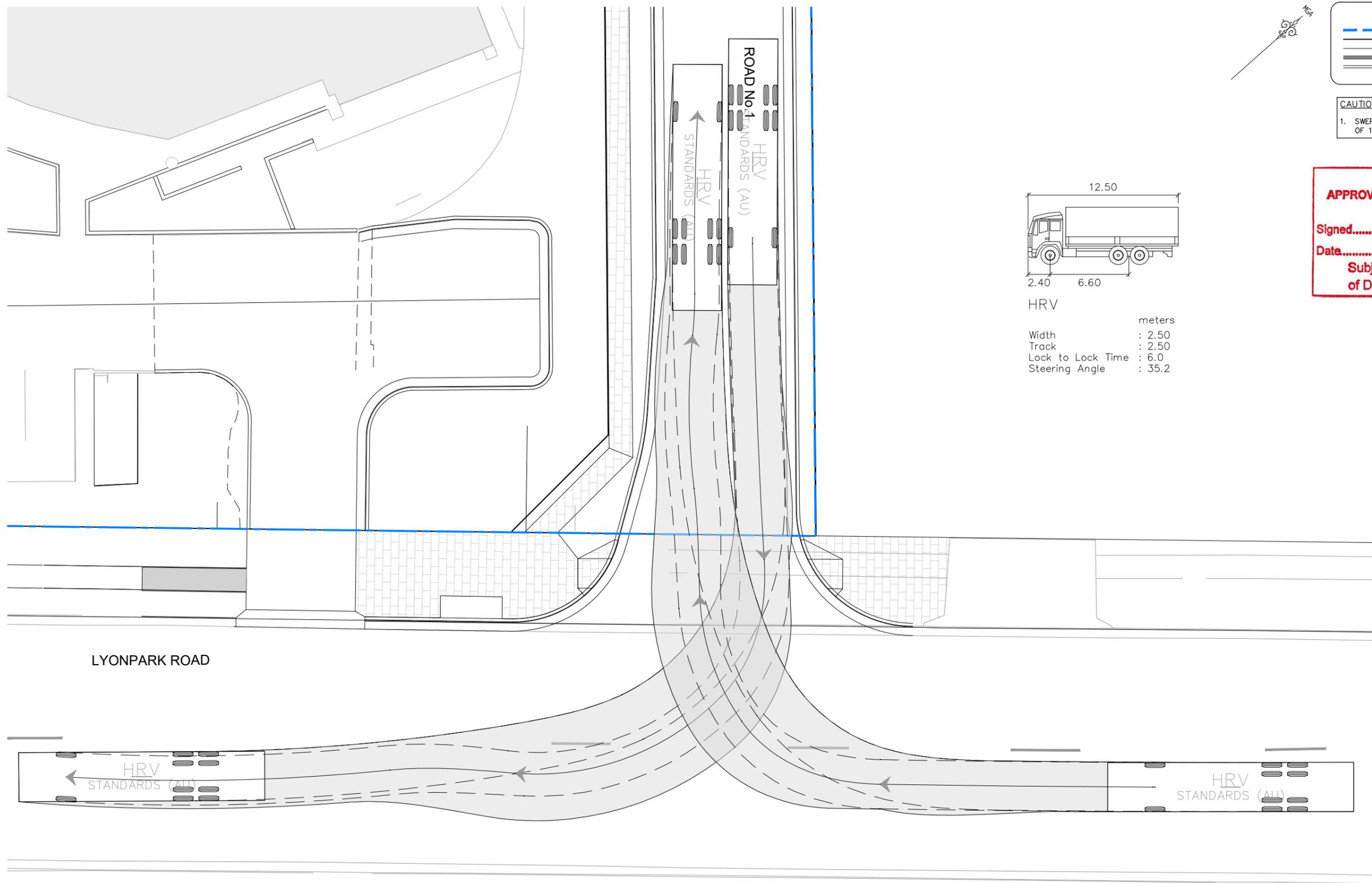
CITY OF RYDE
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SSD 8903
CONSTRUCTION ISSUE

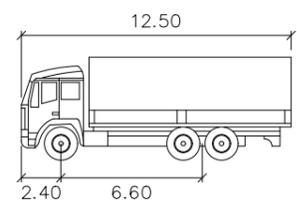
100mm AT FULL SIZE
 This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT	 FRASERS PROPERTY	PROPERTY DESCRIPTION		PROJECT		
1	14.02.2022	CONSTRUCTION ISSUE	B.M.	J.J.	N.D.	B.M.			Central Coast		LYONPARK ROAD, MACQUARIE PARK SSDA 8903	NEW ROAD CONNECTION	PLAN TITLE PROPOSED VEHICLE SWEEP PATH PLAN SHEET 1		
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			SURVEYED		DATUM		PROJECT No.	DISCIPLINE	NUMBER	REV.		
Plotted By: Jacob Jackson Plot Date: 14/02/22 1:53:07PM Cad File: S:\300001\DRAWINGS\ENGINEERING\CIVIL\S138\300001(S138)-ENG-701.DWG			ADW Johnson		GDA94 M.G.A. ZONE 56 A.H.D.		300001(S138) -		ENG		701		1		



LEGEND	
	LIMIT OF WORKS BOUNDARY
	PROPOSED LOT BOUNDARY
	EXISTING LOT BOUNDARY
	PROPOSED KERB
	EXISTING KERB

CAUTION:
1. SWEEP PATHS BASED UPON DRIVING SPEED OF 10KM/H.



HRV

Width	: 2.50	meters
Track	: 2.50	
Lock to Lock Time	: 6.0	
Steering Angle	: 35.2	

CITY OF RYDE
APPROVED FOR CONSTRUCTION

Signed.....
Date..... 18/02/2022

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of Development Consent

SSD 8903

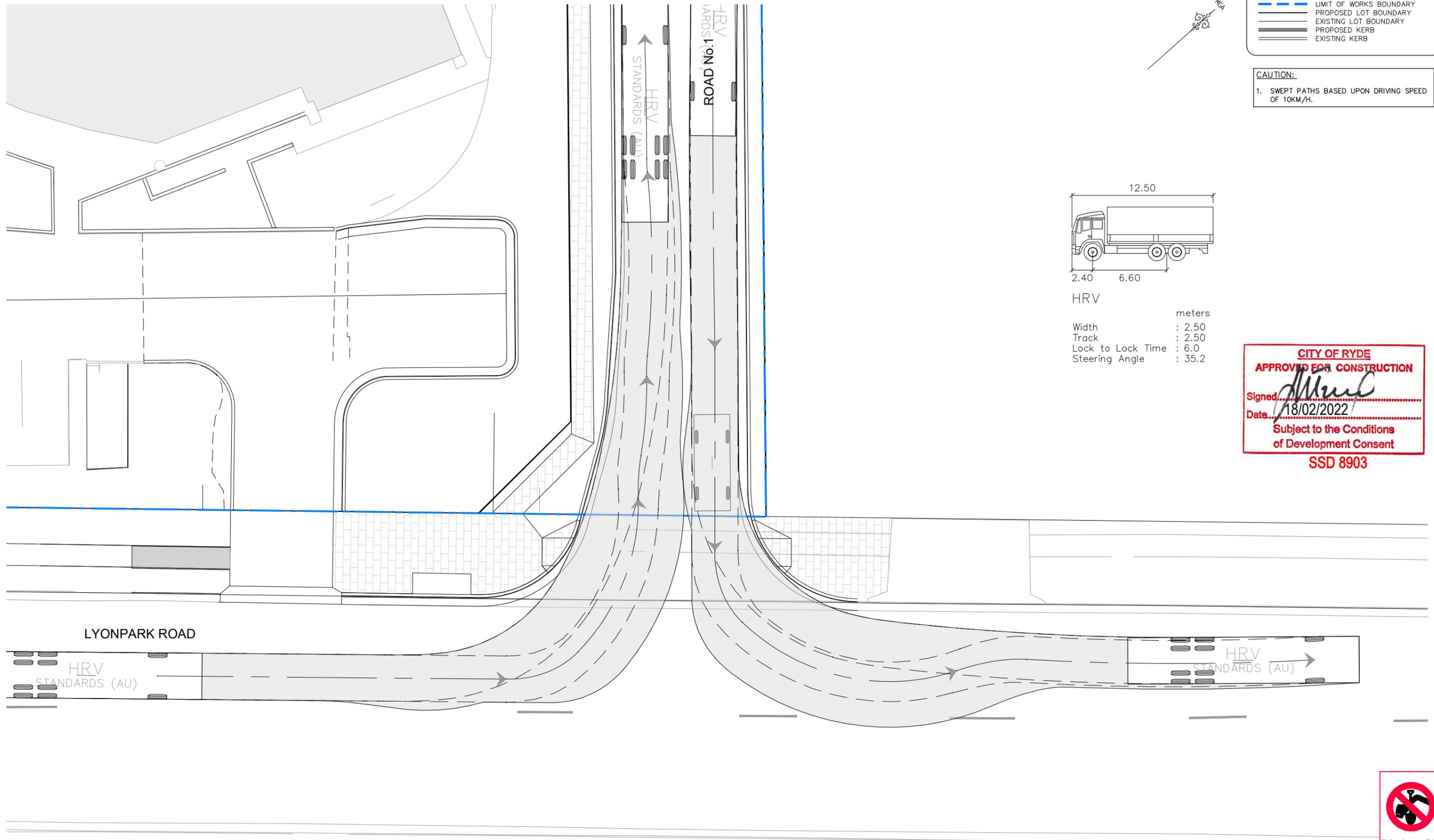
LYONPARK ROAD

PROPOSED SWEEP PATH PLAN – HRV 1
SCALE 1:100



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT		PROPERTY DESCRIPTION		PROJECT		
1	14.02.2022	CONSTRUCTION ISSUE	B.M.	J.J.	N.D.	B.M.		 Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		 LYONPARK ROAD, MACQUARIE PARK SSDA 8903		NEW ROAD CONNECTION PLAN TITLE PROPOSED VEHICLE SWEEP PATH PLAN SHEET 2		
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project		ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.						PROJECT No. 300001(S138) -		DISCIPLINE ENG

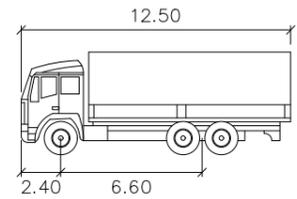


LEGEND

- LIMIT OF WORKS BOUNDARY
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- PROPOSED KERB
- EXISTING KERB

CAUTION:

1. SWEEP PATHS BASED UPON DRIVING SPEED OF 10KM/H.



HRV

meters

Width : 2.50
Track : 2.50
Lock to Lock Time : 6.0
Steering Angle : 35.2

CITY OF RYDE

APPROVED FOR CONSTRUCTION

Signed: *[Signature]*

Date: 18/02/2022

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SSD 8903

PROPOSED SWEEP PATH PLAN – HRV 2
SCALE 1:200

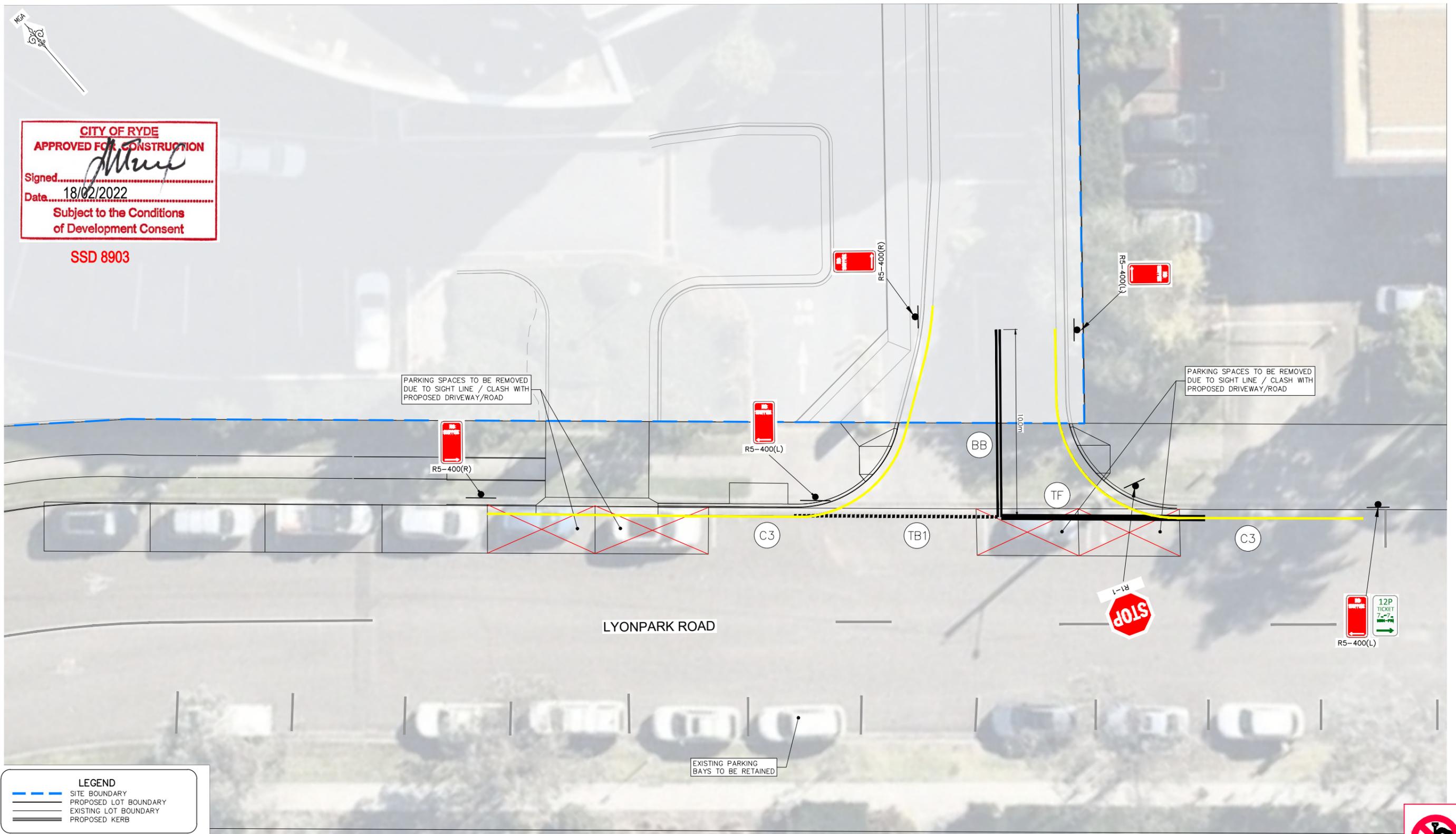


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES		CLIENT	PROPERTY DESCRIPTION	PROJECT				
1	14.02.2022	CONSTRUCTION ISSUE	B.M.	J.J.	N.D.	B.M.	A1 1:200, A3 1:400		Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LYONPARK ROAD, MACQUARIE PARK SSDA 8903	NEW ROAD CONNECTION				
											PLAN TITLE				
											PROPOSED VEHICLE SWEEP PATH PLAN SHEET 3				
									SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(S138) -	DISCIPLINE ENG	NUMBER 703	REV. 1

CITY OF RYDE
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100mm AT FULL SIZE
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LEGEND
 - - - - - SITE BOUNDARY
 - - - - - PROPOSED LOT BOUNDARY
 _____ EXISTING LOT BOUNDARY
 _____ PROPOSED KERB

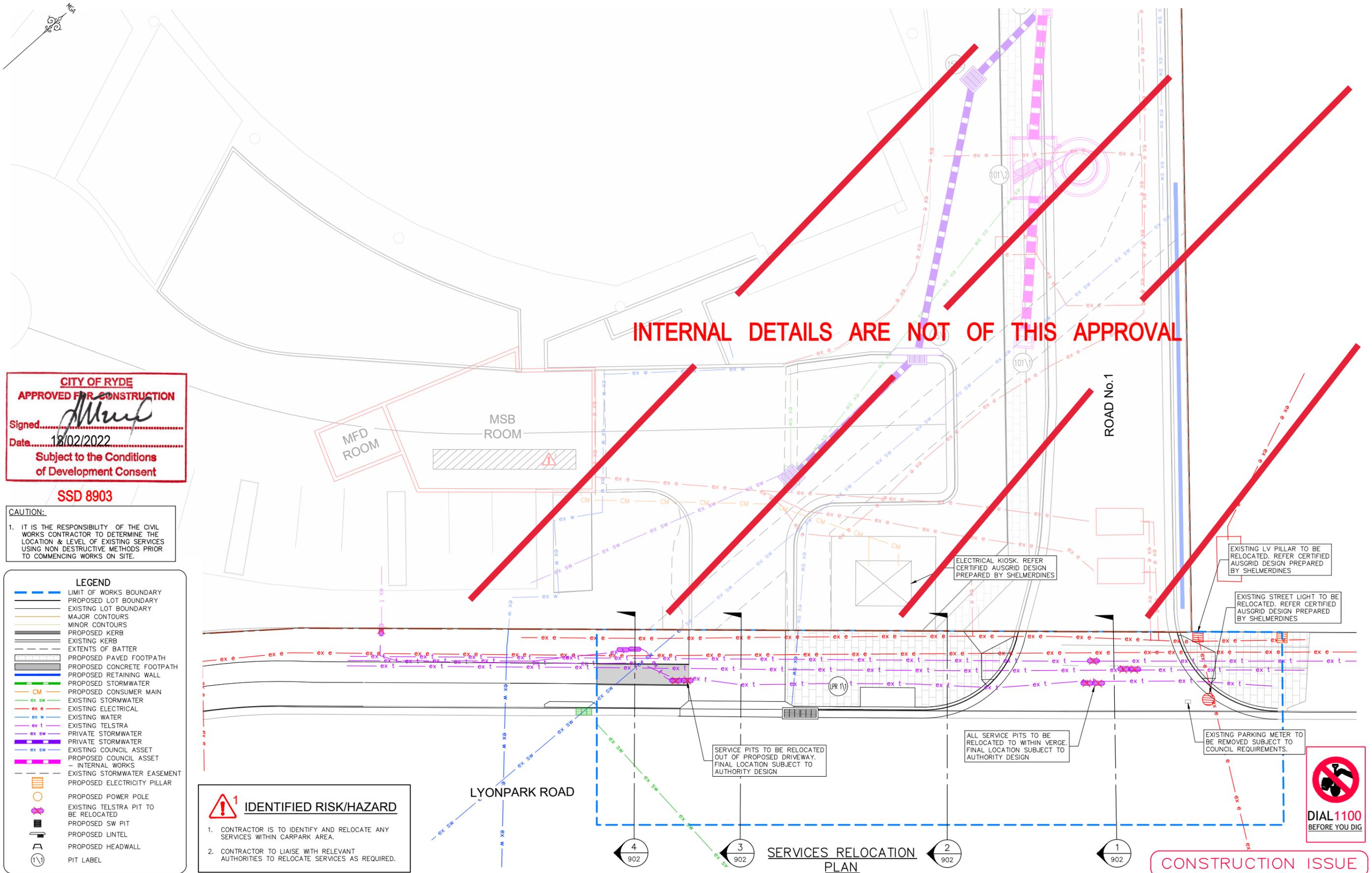
NOTE:
 1. REFER TO ESTATE WIDE APPROVAL SIGNAGE + LINEMARKING DRAWINGS FOR ROAD LINEMARKING.
 2. CAR SHARE ZONE TO BE CONFIRMED BY LTC.
 3. INSTALL LINEMARKING AND SIGNAGE IN ACCORDANCE WITH AS1742 AND RMS DELINEATION GUIDELINES.

LINEMARKING & SIGNAGE PLAN
 SCALE 1:100

CONSTRUCTION ISSUE



REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
1	14.02.2022	CONSTRUCTION ISSUE	B.M.	J.J.	N.D.	B.M.	A1 0 2.5 5.0m A3 1:100 1:200	Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	LYONPARK ROAD, MACQUARIE PARK SSDA 8903	NEW ROAD CONNECTION LINEMARKING & SIGNAGE PLAN
DESIGN FILE S:\300001\DESIGN\12\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE						SURVEYED ADW Johnson DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 300001(S138) - DISCIPLINE ENG NUMBER 751 REV. 1



CITY OF RYDE
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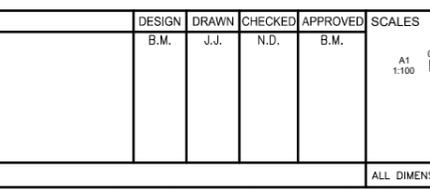
CAUTION:
 1. IT IS THE RESPONSIBILITY OF THE CIVIL WORKS CONTRACTOR TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES USING NON DESTRUCTIVE METHODS PRIOR TO COMMENCING WORKS ON SITE.

- LEGEND**
- LIMIT OF WORKS BOUNDARY
 - PROPOSED LOT BOUNDARY
 - EXISTING LOT BOUNDARY
 - MAJOR CONTOURS
 - MINOR CONTOURS
 - PROPOSED KERB
 - EXISTING KERB
 - EXTENTS OF BATTER
 - PROPOSED PAVED FOOTPATH
 - PROPOSED CONCRETE FOOTPATH
 - PROPOSED RETAINING WALL
 - PROPOSED STORMWATER
 - CM --- PROPOSED CONSUMER MAIN
 - ex sw --- EXISTING STORMWATER
 - ex e --- EXISTING ELECTRICAL
 - ex w --- EXISTING WATER
 - ex t --- EXISTING TELSTRA
 - ex sw --- PRIVATE STORMWATER
 - ex sw --- PRIVATE STORMWATER
 - ex sw --- EXISTING COUNCIL ASSET
 - --- PROPOSED COUNCIL ASSET
 - --- INTERNAL WORKS
 - --- EXISTING STORMWATER EASEMENT
 - --- PROPOSED ELECTRICITY PILLAR
 - --- PROPOSED POWER POLE
 - --- EXISTING TELSTRA PIT TO BE RELOCATED
 - --- PROPOSED SW PIT
 - --- PROPOSED LINTEL
 - --- PROPOSED HEADWALL
 - --- PIT LABEL

IDENTIFIED RISK/HAZARD

- CONTRACTOR IS TO IDENTIFY AND RELOCATE ANY SERVICES WITHIN CARPARK AREA.
- CONTRACTOR TO LIAISE WITH RELEVANT AUTHORITIES TO RELOCATE SERVICES AS REQUIRED.

REV.	DATE	AMENDMENT	DESIGN	DRAWN	CHECKED	APPROVED	SCALES
1	14.02.2022	CONSTRUCTION ISSUE	B.M.	J.J.	N.D.	B.M.	A1 1:100, A3 1:200



adw Johnson

Central Coast
 5 Pioneer Avenue,
 P.O. Box 3717,
 Tuggerah N.S.W. 2259
 Phone: (02) 4305 4300
 Fax: (02) 4305 4399
 email: coast@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

FRASERS PROPERTY

PROPERTY DESCRIPTION		
LYONPARK ROAD, MACQUARIE PARK SSSA 8903		
SURVEYED	DATUM	A.H.D.
ADW Johnson	GDA94 M.G.A. ZONE 56	

PROJECT			
NEW ROAD CONNECTION			
PLAN TITLE			
SERVICES RELOCATION PLAN			
PROJECT No.	DISCIPLINE	NUMBER	REV.
300001(S138) -	ENG	901	1

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CITY OF RYDE
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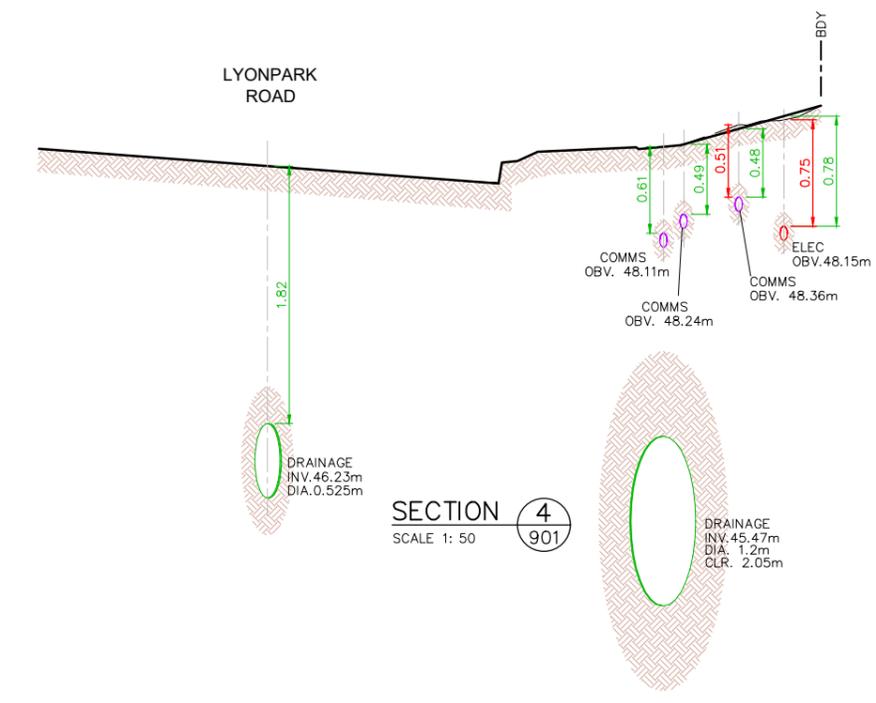
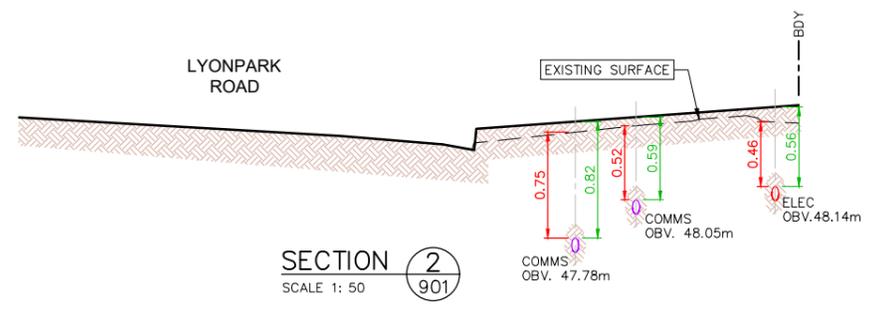
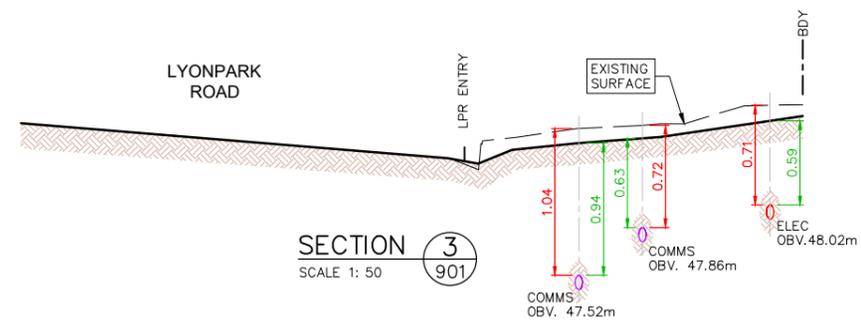
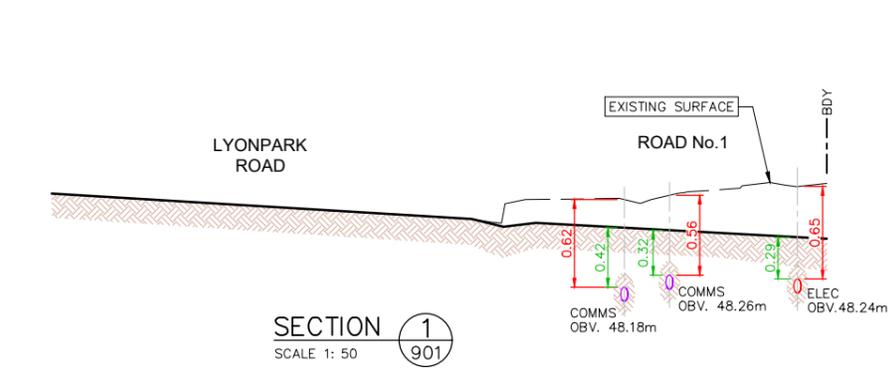
SSD 8903

LEGEND

COVER TO EXISTING SERVICES BASED UPON PROPOSED DESIGN LEVELS

EXISTING COVER

NOTE:
 ALL SERVICES TO BE LOWERED TO STANDARD COVER WHERE REQUIRED. FINAL LOCATIONS SUBJECT TO AUTHORITY DESIGN



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CONSTRUCTION ISSUE

REV. 1	DATE 14.02.2022	AMENDMENT CONSTRUCTION ISSUE	DESIGN B.M.	DRAWN J.J.	CHECKED N.D.	APPROVED B.M.	SCALES			Central Coast 5 Pioneer Avenue, P.O. Box 3717, Tuggerah N.S.W. 2259 Phone: (02) 4305 4300 Fax: (02) 4305 4399 email: coast@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION LYONPARK ROAD, MACQUARIE PARK SSDA 8903	PROJECT NEW ROAD CONNECTION			
PLAN TITLE SERVICES RELOCATION SECTIONS																
DESIGN FILE S:\300001\DESIGN\12D\STAGE 2 CC\DESIGN FILE.project			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 300001(S138) -		DISCIPLINE ENG	NUMBER 902	REV. 1