

Date: 15/01/2018
To: Mr Alec Palmer
Company:
Address: 6 7 Millennium Court
Silverwater, NSW 2128

ENQUIRY DETAILS

Location: Cudgegong Road, The Ponds, NSW 2769
Sequence No.: 67659633
DBYD Reference: 13528284

In relation to your enquiry of the above location, Optus advises as follows:

Optus records indicate that there ARE underground Optus FIBRE OPTIC TELECOMMUNICATIONS ASSETS in the vicinity of the above location as per the attached drawing(s).

This reply is valid for a period of 30 days from the date above.

IMPORTANT INFORMATION

Asset location drawings provided by Optus are reference diagrams and are provided as a guide only. The completeness of the information in these drawings cannot be guaranteed. Exact ground cover and alignments cannot be provided with any certainty as these may have altered over time. Depths of telecommunications assets vary considerably as do alignments. It is essential to identify the location of any Optus assets in the vicinity prior to engaging in any works.

All Optus assets in the vicinity of any planned works will need to be electronically located to ascertain their general location. Depending on the scope of planned works in the vicinity, the assets may also need to be physically located.

You MUST engage the services of one of the Optus Asset Accredited Locators to carry out asset location (refer to list of Accredited Locators at the end of this DYBD response).

Unless otherwise agreed with Optus, where an on-site asset location is required, the requestor is responsible for all costs associated with the locating service including (where required) physically exposing the Optus asset.

DUTY OF CARE

When working in the vicinity of telecommunications assets you have a legal "Duty of Care" and non-interference that must be observed.

It is your responsibility as the requesting party (as a landowner or any other party involved in the planned works) to design for minimal impact to any existing Optus asset. Optus can assist at the design stage through consultation.

It is also your, as the requesting party (or your representative's), responsibility to:

- a) Obtain location drawings (through the Dial Before You Dig process) of any existing Optus assets at a reasonable time before any planned works begin;
- b) Have an Optus Accredited Asset Locator identify the general location of the Optus asset and physically locate the asset where planned works may encroach on its alignment; and
- c) Contact Optus for further advice where requested to do so by this letter.

DAMAGE TO ANY OPTUS NETWORK MUST BE REPORTED TO 1800 500 253 IMMEDIATELY

You, your head contractor and any relevant subcontractor are all responsible for any Optus asset damage as a result of planned activities in the vicinity of Optus assets.

This applies where works commence prior to obtaining Optus drawings, where there is failure to follow instructions or during any construction activities.

Optus reserves the right to recover compensation for loss or damage to its assets including consequential loss. Also, you, your head contractor and any relevant subcontractor may also be liable for prosecution under the Criminal Code Act 1995 (Cth).

ASSET RELOCATIONS

You are not permitted by law to relocate, alter or interfere with any Optus asset under any circumstance. Any unauthorised interference with an Optus asset may lead to prosecution under the Criminal Code Act 1995 (Cth).

Enquiries relating to the relocation of Optus assets must be referred to the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

APPROACH DISTANCES

On receipt of Optus asset location drawings and prior to commencing any planned works near an Optus asset, engage an Optus Accredited Locator to undertake a general location of the Optus asset.

Physical location of the Optus asset by an Optus Accredited Locator will also be required where planned works are within the following approach distances of the general location of the Optus asset:

- a) In built up metropolitan areas where road and footpaths are well defined by kerbs or other features a minimum clear distance of 1 meter must be maintained from the general location of the Optus asset.
- b) In non-established or unformed metropolitan areas, a minimum clear distance of 3 meters must be maintained from the general location of the Optus asset.
- c) In country or rural areas where wider variations may exist between the general and actual location of an Optus asset may exist, then a minimum clear distance of 5 meters must be maintained from the general location of the Optus asset.

If planned works are parallel to the Optus asset, then the Optus asset must be physically located by an Optus Accredited Locator at a minimum of 5 meter intervals along the length of the parallel works prior to work commencing.

Under no circumstances is crossing of any Optus asset permitted without physical location of the asset being carried out by an Optus Accredited Locator. Depending on the asset involved an Optus representative may be required onsite.

The minimum clearances to the physical location of Optus assets for the following specific types of works must be maintained at all times.

Note: Where the clearances in the following table cannot be maintained or where the type of work differs from those listed then advice must be sought from the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

| Type of Works | Clearance to Physical Location of Optus Asset |
|--|--|
| Jackhammers / Pneumatic Breakers | Not within 1 meter. |
| Light duty Vibrating Plate or Wacker Packer type compactors (not heavy road construction vibrating rollers etc.) | 500mm compact clearance cover before a light duty compactor can be used over any Optus conduit. No compaction permitted over Optus direct buried cable without prior approval from Optus. |
| Boring Equipment (in-line, horizontal and vertical) | Not within 5 meters parallel of the Optus asset location without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite. Not to cross the Optus asset without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite. |

| Type of Works | Clearance to Physical Location of Optus Asset |
|--|--|
| Heavy vehicle Traffic (over 3 tonnes) | <p>Not to be driven across Optus conduits with less than 600mm of cover.</p> <p>Not to be driven across Optus direct buried cable with less than 1.2 meters of cover.</p> <p>Once off crossings permitted, multiple crossing (e.g. road construction or logging) will require Optus approval.</p> <p>Accredited Optus Asset Locator to physically expose the Optus asset to verify actual depth.</p> |
| Mechanical Excavators, Farm Ploughing, Vertical Hole installation for water bore or fencing etc. | <p>Not within 1 meter.</p> <p>Accredited Optus Asset Locator to physically expose the Optus asset to verify actual location.</p> |

ASSET CLEARANCES AFTER COMPLETION OF WORKS

All Optus pits and manholes must be a minimum of 1 meter from the back of any kerb, 3.5 meters of the road surface without a kerb or not within 15 meters of street intersection.

In urban areas Optus conduit must have the following minimum depth of cover:

- Footway 600mm;
- Roadway 1 meter at drain invert and at road centre crown.

In rural areas Optus conduit must have a minimum depth of cover of 1 meter and direct buried cable 1.2 meters.

In cases where it is considered that the above clearances cannot be maintained at the completion of works, advice must be sought from the relevant Optus Damages and Relocations Team (refer "Further Assistance").













FURTHER ASSISTANCE





Further assistance on asset clearances, protection works or relocation requirements can be obtained by contacting the relevant Optus Damages and Relocations Team on the following email address:


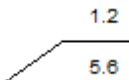
NFODamages&RelocationsDropbox@optus.com.au

Further assistance relating to asset location drawings etc. can be obtained by contacting the Optus Network Operations Asset Analysis Team on 1800 505 777.

OPTUS ENGINEERING DRAWING SYMBOLS

| | | | |
|---|--------------------------------------|--|---------------------------|
|  | Optus underground cable |  | Optus manhole/pit |
|  | Optus conduit |  | Other Utility manhole/pit |
|  | Optus fibre in Other Utility conduit |  | Optus marker post |
|  | Southern Cross conduit |  | Railway / Tram line |
|  | Uecomm conduit |  | Highway / Major Road |
| | |  | Arterial Road |
| | |  | Council Road - minor |

| | |
|---|---|
|  | Optus underground cable |
|  | Optus cable buried jointly with third party utility |
|  | Optus aerial cable |
|  | Optus cable in conduit with subducts |

| | |
|---|---|
|  | Optus marker post number Depth of Optus cable Offset to Optus cable |
|  | Optus cable depth (approximate) Optus cable offset (approximate) |



WARNING: This document is confidential and may also be privileged. Confidentiality nor privilege is not waived or destroyed by virtue of it being transmitted to an incorrect addressee. Unauthorised use of the contents is therefore strictly prohibited. Any information contained in this document that has been extracted from our records is believed to be accurate, but no responsibility is assumed for any error or omission. Optus Plans and information supplied are valid for 30 days from the date of issue. If this timeline has elapsed please raise a new enquiry.

Sequence Number: 67659633

Date Generated: 15/01/2018



For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208



Dear Sir / Madam,

Dial Before You Dig – Potential impact on Sydney Metro assets

Thank you for your Dial Before You Dig enquiry. We have identified that construction of Sydney Metro Northwest rail infrastructure is underway in the location the subject of your enquiry. The works currently under construction may include, but are not limited to:

- New station, car park or bridge structures;
- New or adjusted drainage;
- New or adjusted utility services; and/or
- New or adjusted roadworks.

Depending upon the location of your enquiry you may also receive separate notification of high voltage or tunnel assets that may also be impacted.

ATTENTION

- Sydney Metro Northwest is currently undertaking substantial modifications to existing assets and constructing significant new assets in the area covered by your enquiry.
- The location of any existing and proposed underground assets shown on the attached plan(s) is **indicative only**.
- The plan(s) is(are) **incomplete and subject to significant change**, including in relation to the following:
 - the movement of underground assets, infrastructure or utilities resulting from staging works; or
 - road widening or realignment.
- The plan(s) may not reflect the latest arrangement of existing or newly constructed underground assets, infrastructure or utilities as a result of 'live' construction and delays associated with publishing updated plans.
- Damage to Sydney Metro Northwest rail infrastructure and assets may cause serious injury or death.

The anticipated arrangement of utilities and other underground assets are shown on the attached plan(s). These plans are provided subject to the provisions set out below:

- The actual depth of existing underground assets is likely to vary significantly from the location shown on the attached plan(s) as a result of the construction works currently being undertaken;
- Any reliance placed on these plans by you is entirely at your risk. You must undertake your own investigations and enquiries to confirm the exact locations of underground assets.
- Sydney Metro is not responsible for any loss suffered by you or any other party (including indirect or consequential loss) in connection with the provision of these plans, however that loss may arise (including losses arising as a result of negligence by Sydney Metro and/or its employees, officers, consultants and contractors).

- Whilst Sydney Metro has taken all reasonable steps to ensure that the information contained in the indicative plans is as accurate as possible, Sydney Metro gives no guarantee, warranty or undertaking as to the accuracy, currency, adequacy, suitability or completeness of the plans and does not assume any duty of care to you or any third party nor accept any liability for inaccuracies in the information shown on these plans.
- As construction is currently underway and there are delays between the preparation and publishing of as-built plans, please contact the project via email smnwdbyd@transport.nsw.gov.au at least 14 days prior to your planned start date to obtain the most up-to-date information and discuss necessary safety aspects and coordination of works.

Any further information you require can be requested during this contact.

You must:

- provide Sydney Metro with information about the proposed works with sufficient time to allow for adjustments to meet Sydney Metro's requirements;
- not modify the nature or extent of works in the vicinity of the underground assets without prior notification to Sydney Metro;
- exercise due care and take all reasonable precautions in the vicinity where underground assets are indicated to avoid destroying, damaging or interfering with Sydney Metro assets and infrastructure;
- not relocate, alter or interfere with any Sydney Metro assets or infrastructure under any circumstances;
- immediately notify Sydney Metro of any damage or threat of damage to its infrastructure that occurs as a result of your work, by telephoning the emergency contact number 1800 019 989; and
- ensure information provided in this response is printed and available on-site at all times throughout your construction phase.

Due to the inherent dangers associated with excavation in the vicinity of underground assets and infrastructure, precautions should be taken in the undertaking of any excavation or underground works, including, but not limited to the following:

- all personnel must be properly briefed, particularly those associated with the use of earthmoving equipment, trenching, boring and pneumatic equipment; and
- all excavations by you must be undertaken in accordance with all relevant laws and regulations including, in accordance with but not limited to, Work Cover NSW "Work near underground assets: Guide" and "Work Cover NSW "Excavation work: Code of practice".

You will be held responsible for any damage to any of Sydney Metro's assets or infrastructure or other loss caused (including consequential loss) as a result of excavation or earthworks by you or on your behalf.

The provision of these drawings does not provide approval for your proposed works or diminish your obligations under NSW legislation. This includes the requirement to contact Sydney Metro prior to any work commencing to discuss necessary safety and design aspects as detailed above.

Yours sincerely,

Sydney Metro NorthWest

LEGEND

- BOUNDARY (PROJECT SITE)
- RAIL ALIGNMENT
- TYPE F BARRIER
- G4 BARRIER
- PROPOSED UTILITIES (BY DJV)
- PROPOSED WATER MAIN
- PROPOSED NON-POTABLE WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED STREET LIGHTING CONDUIT
- PROPOSED TRAFFIC SIGNAL CONDUIT
- PROPOSED ELECTRIC CAR CHARGING CONDUIT
- PROPOSED DRAINAGE PIPE AND PIT
- PROPOSED COMBINED SERVICES ROUTES (REFER TO DESIGN PACKAGE 221)
- PROPOSED UTILITIES (BY NRT - OTHERS)
- PROPOSED 132kV HV CONDUIT
- PROPOSED 132kV NRT COMMUNICATION CONDUIT
- EXISTING UTILITIES (UNVERIFIED)
- EXISTING POWER LINE
- EXISTING GAS MAIN
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING OPTUS LINE (UNDERGROUND)
- EXISTING OPTUS LINE (ABOVE GROUND)
- EXISTING TELSTRA LINE

EXISTING UTILITIES DISCLAIMER

REFER TO THE GENERAL NOTES AND THE NOTES BELOW REGARDING THESE UTILITIES DRAWINGS.

THE EXISTING SERVICES SHOWN ARE INDICATIVE ONLY. POSITIONS SHOWN ARE BASED ON SERVICE DIAGRAMS PROVIDED BY THE RELEVANT AUTHORITIES AND TFSNW. OTHER SERVICES MAY EXIST WHICH ARE NOT SHOWN.

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR WILL CONFIRM THE EXACT POSITION OF UTILITIES WITH THE RELEVANT AUTHORITIES.

ALL NECESSARY MEASURES SHALL BE PROVIDED TO PROTECT ALL UTILITIES/SERVICES DURING THE COURSE OF THE WORKS.

NOT ALL PUBLIC UTILITIES/SERVICES CONFLICTS HAVE NECESSARILY BEEN IDENTIFIED AND SHOWN ON THE DRAWINGS.

NOTES

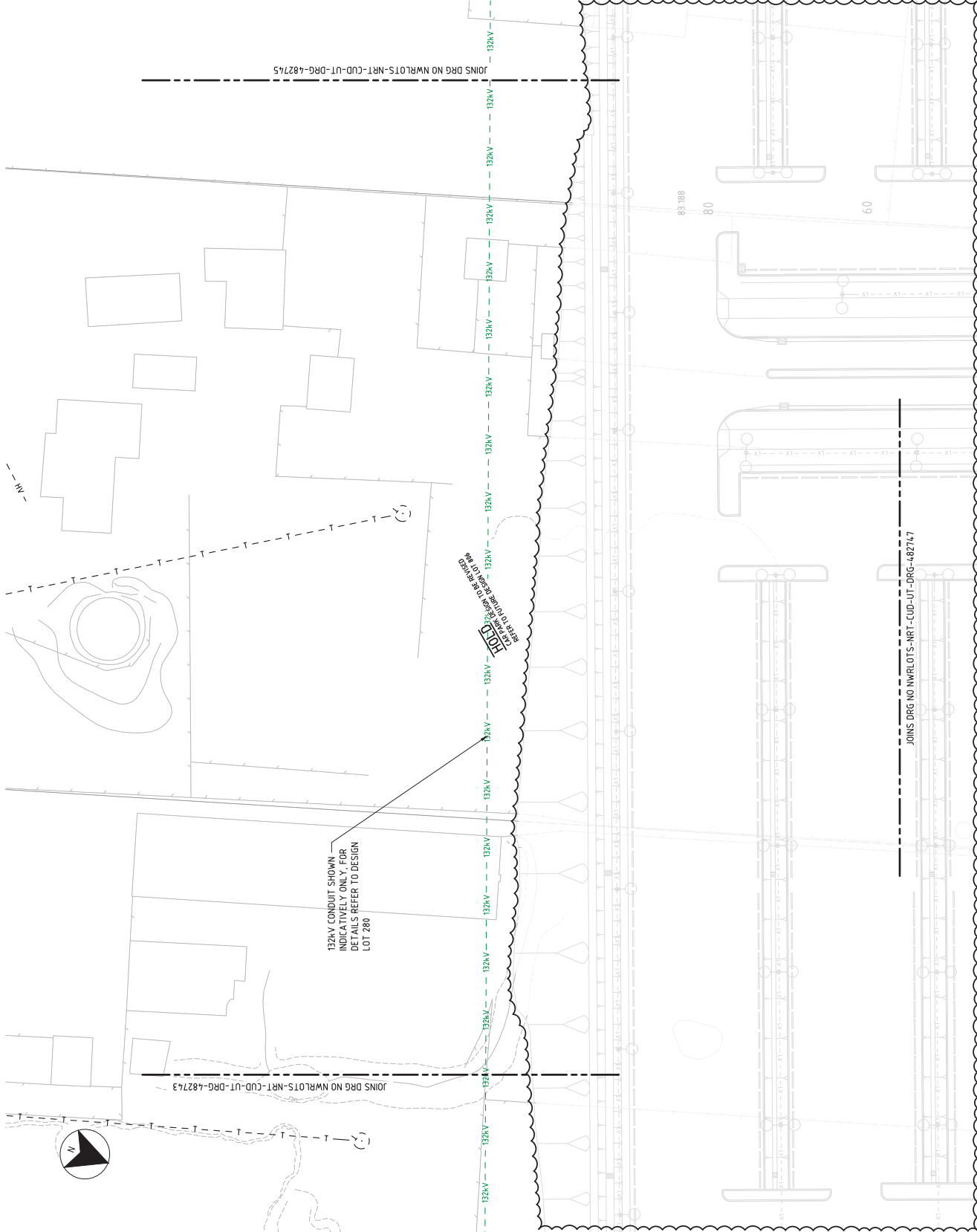
- FOR GENERAL NOTES REFER TO DRG NO. NWRL0TS-NRT-CUD-UT-DRG-482743 TO 482747.
- PROPOSED 132kV CONDUIT SHOWN INDICATIVELY ONLY. FOR DETAILS REFER TO DESIGN LOT 280.
- DESIGNWORKS AREA SHOWN IN GREY DENOTES WORKS TO BE COMPLETED AS PART OF DESIGN LOT 806.
- COMBINED SERVICES ROUTE SHOWN INDICATIVELY ONLY. FOR DETAILS REFER TO DESIGN LOT 221.
- 132kV ROUTE IS SHOWN INDICATIVELY ONLY. FOR DETAILS REFER TO DESIGN LOT 280.



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NORTH WEST RAIL LINK
CUDDEGO ROAD STATION
UTILITIES
INFORMATION PLAN
SHEET 14

STATUS: FOR CONSTRUCTION | SHEET 14 OF 23 | ©
DRG NO. NWRL0TS-NRT-CUD-UT-DRG-482744 | NWRL REV 00



THE INFORMATION CONTAINED ON THIS DRAWING IS FOR THE PURPOSES OF THE NORTH WEST RAIL LINK (NWRL) PROJECT ONLY. NO WARRANTY IS GIVEN BY NORTH WEST RAIL LINK (NWRL) FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE RELEVANT AUTHORITIES AND TFSNW.

Service Providers

Transport for NSW

CLIENT

DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING

INDEPENDENT CERTIFIED CERTIFICATE
NWRL0TS-OIC-CUD-CE-CER-000007

NOTES: Do not scale from this drawing.

SCALES

25 0 25 75m
FULL SIZE A1
A4
A40

DESIGN LOT 806 - APPROVED FOR CONSTRUCTION
DESIGN LOT 806 - APPROVED FOR CONSTRUCTION
DATE

4/12/2015

Co-ordinate System: MGA Zone 56 | Height Datum: A.H.D.

Original

REV

BY

DATE

LEGEND

- BOUNDARY (PROJECT SITE)
- RAIL ALIGNMENT
- TYPE F BARRIER
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- PROPOSED WATER MAIN
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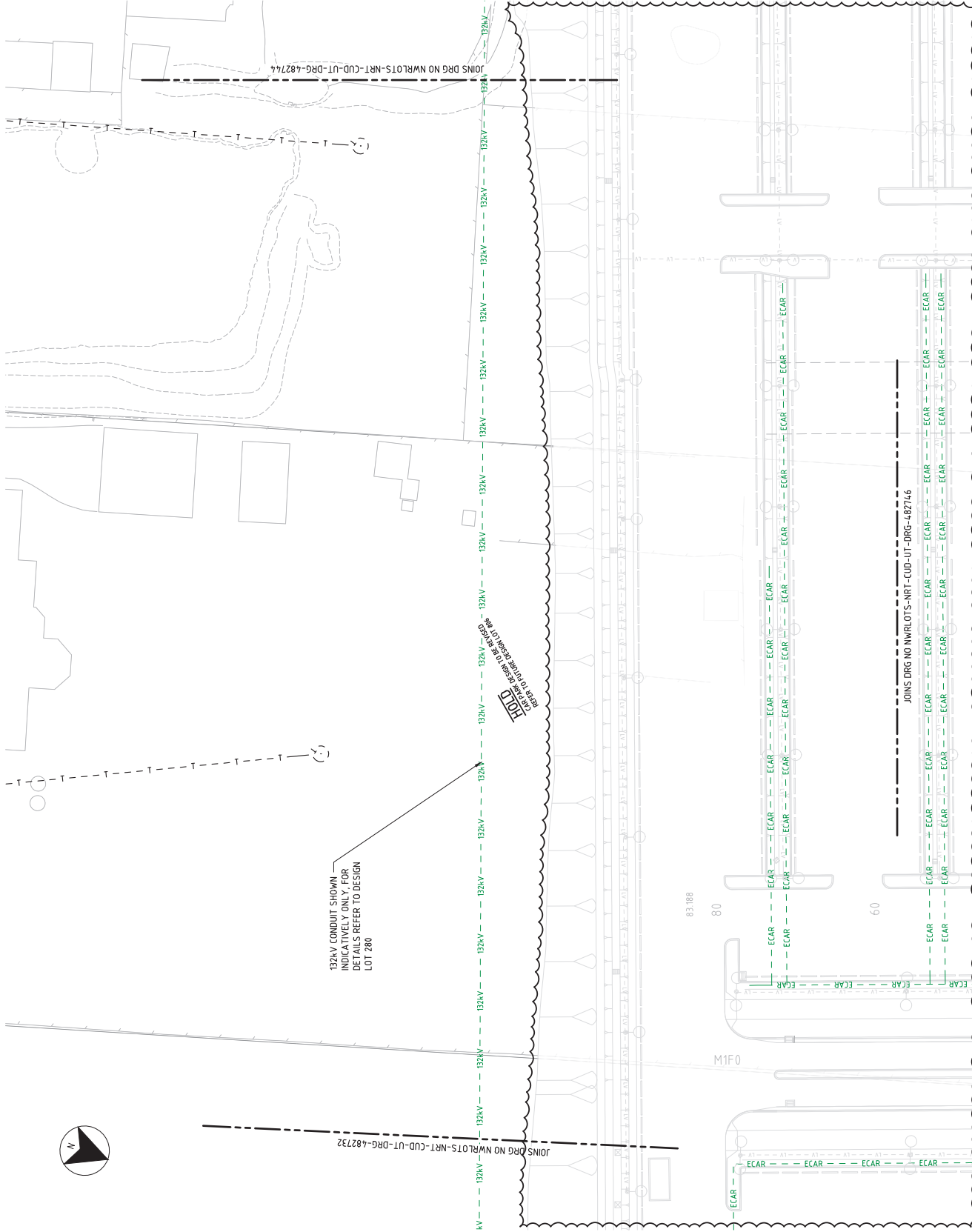
- FOR GENERAL NOTES REFER TO DRG NO. NWRL0TS-NRT-CUD-UT-DRG-487146.
- PROPOSED 132kV CONDUIT SHOWN INDICATIVELY ONLY. FOR DETAILS REFER TO DESIGN LOT 280.
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NORTH WEST RAIL LINK
CUDGEGONG ROAD STATION
UTILITIES
INFORMATION PLAN
SHEET 13

STATUS: FOR CONSTRUCTION | SHEET 13 OF 23 | © DRG No. NWRL0TS-NRT-CUD-UT-DRG-482743 | NWRL Rev 00



Transport for NSW
northwest rapid transit
DRAWN: M. JAMES
DESIGNED: A. JAMES
CHECKED: A. JAMES
DESIGN CHECK: A. JAMES
APPROVED: A. JAMES

CLIENT
DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING
INDEPENDENT CERTIFIED CERTIFICATE
NWRL0TS-OIC-CUD-CE-CEH-000007
NOTE: Do not scale from this drawing.

SCALES
25 0 25 75m
FULL SIZE A1
1:250
A1
A4/D1

REVISIONS

| REV | DATE | DESCRIPTION | BY | CHKD |
|-----|-----------|--|----|------|
| 00 | 4/12/2013 | DESIGN LOT 806 - APPROVED FOR CONSTRUCTION | | |

Co-ordinate System: MGA Zone 56 | Height Datum: A.H.D. | This sheet may be prepared using colour and may be incomplete if copied

LEGEND

- BOUNDARY (PROJECT SITE)
- RAIL ALIGNMENT
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- PROPOSED WATER MAIN
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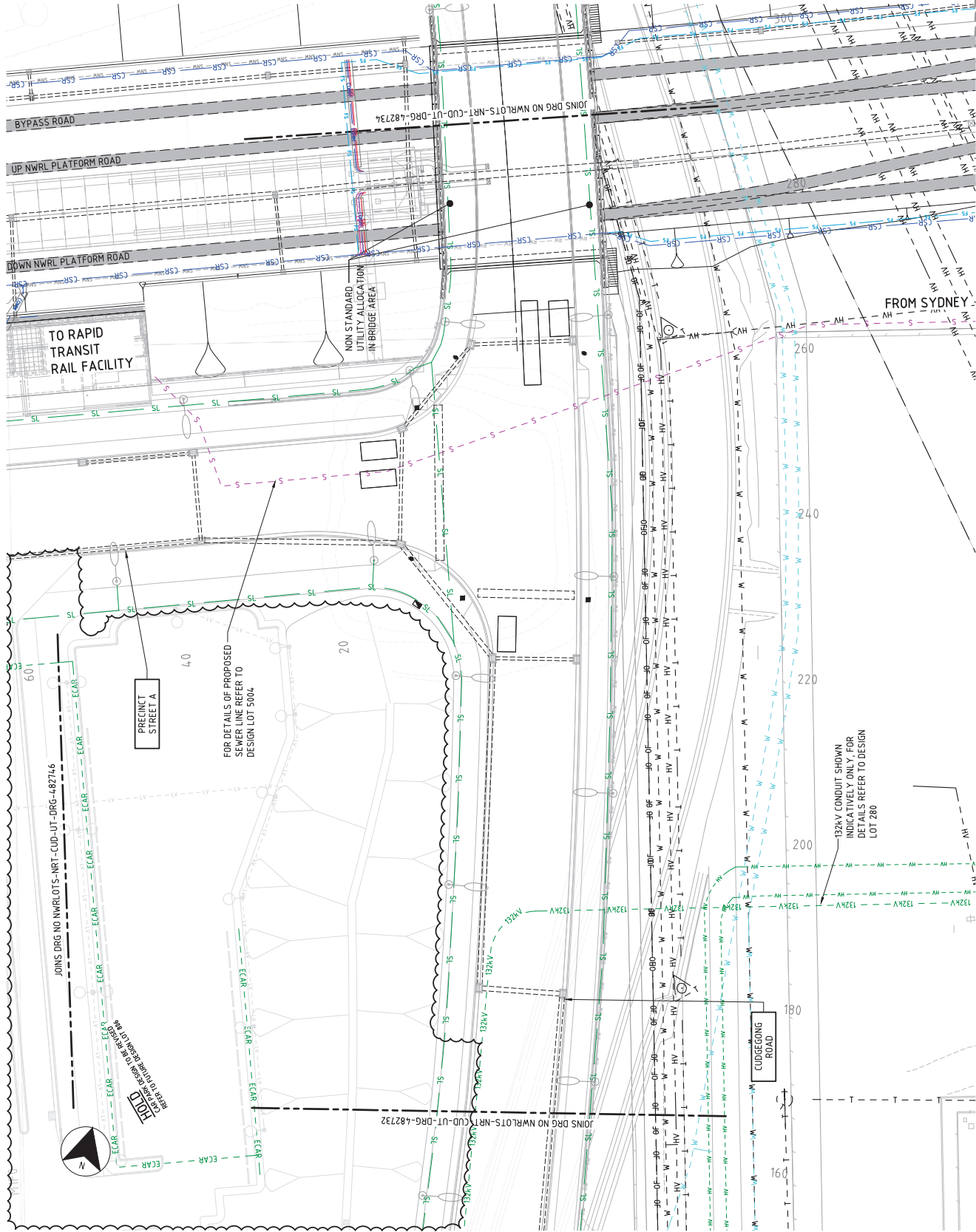
- FOR GENERAL NOTES REFER TO DRG NO. NWRL015-NRT-CUD-UT-DRG-482734.
- PROPOSED 132kV CONDUIT SHOWN INDICATIVELY ONLY. FOR DETAILS REFER TO DESIGN LOT 280.
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NORTH WEST RAIL LINK
CUDDEGO ROAD STATION
UTILITIES
INFORMATION PLAN
SHEET 3

STATUS FOR CONSTRUCTION | SHEET 3 OF 23 | ©
DRG NO. NWRL015-NRT-CUD-UT-DRG-482733 | NWRL REV 00



DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THE DRAWING

CLIENT

DESIGNER: J. JAMES
DRAWN: J. JAMES
CHECKED: J. JAMES
DESIGN CHECK: J. JAMES
APPROVED: J. JAMES

Transport for NSW

INDEPENDENT CERTIFIED CERTIFICATE
NWRL015-OIC-CUD-CE-CEH-000007

NOTE: Do not scale from this drawing.

SCALES

25 0 25 5 75m
FULL SIZE AT 1:250
A4
A40

DESIGN LOT 806 - APPROVED FOR CONSTRUCTION
DATE
REV

Co-ordinate System: MGA zone 56 | Height Datum: A.H.D. | This sheet may be prepared using colour and may be incomplete if copied

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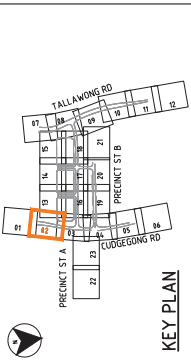
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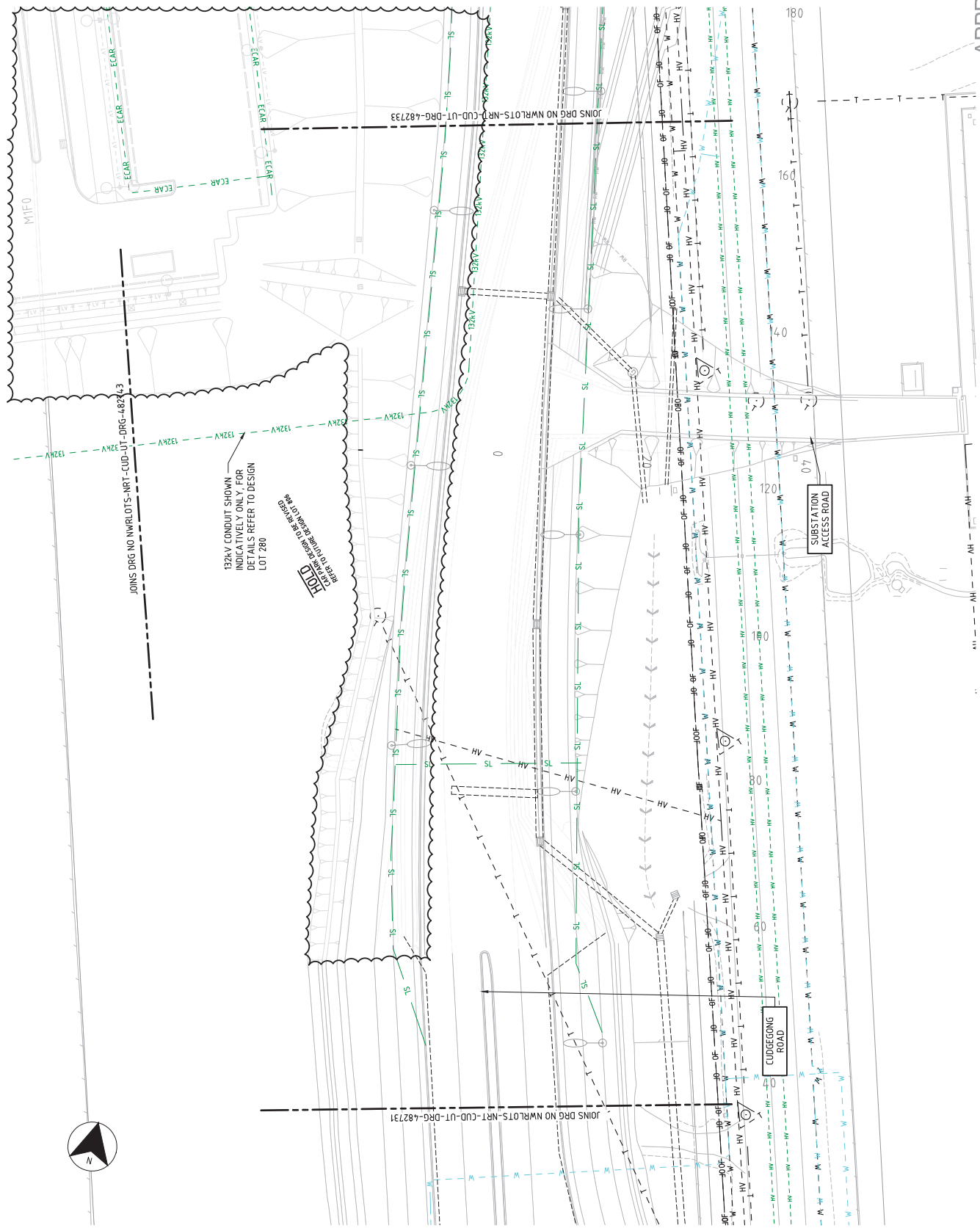
- FOR GENERAL NOTES REFER TO DRG NO. NWRL0TS-NRT-CUD-UT-DRG-482731 TO 482734.
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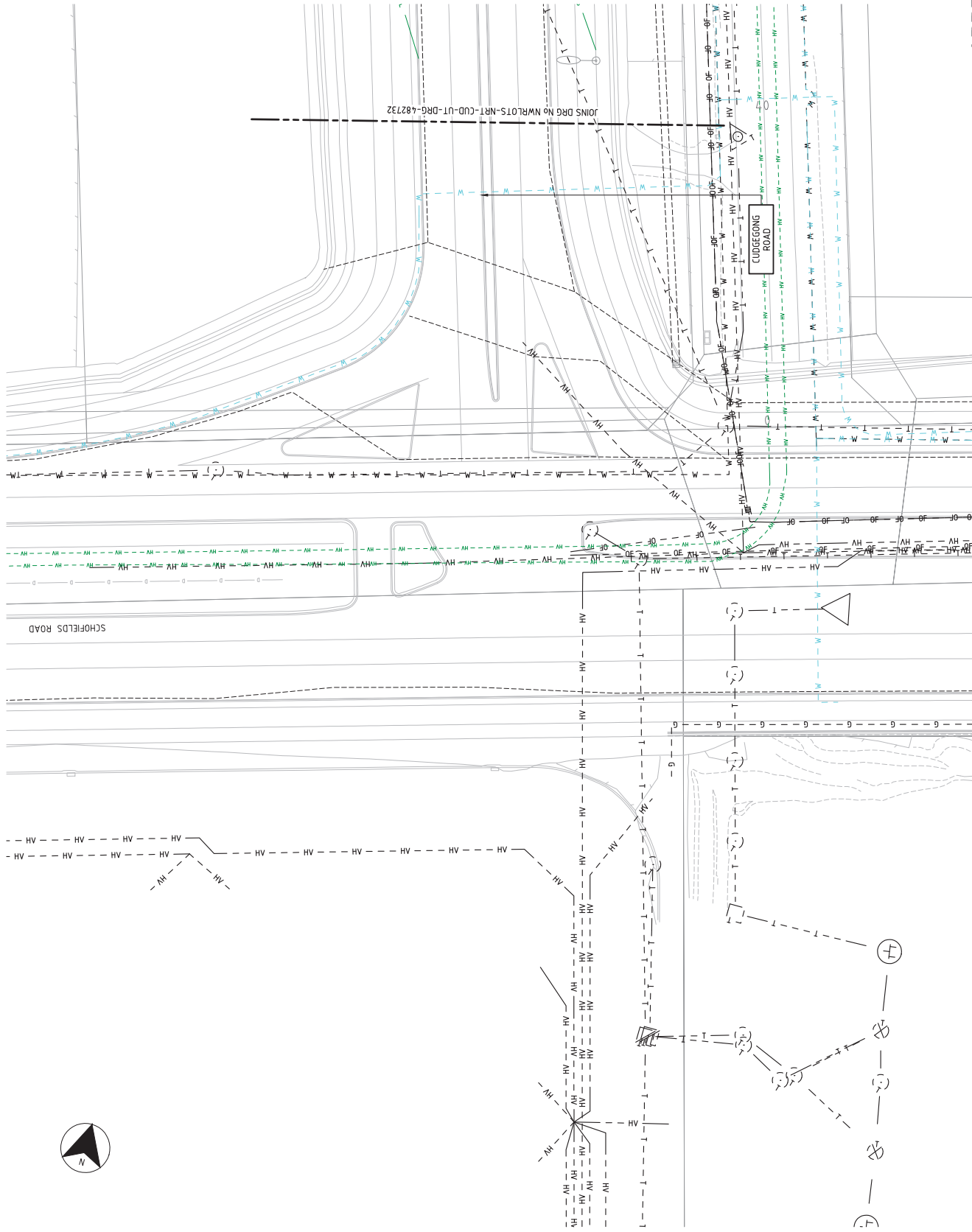
APPROVED FOR CONSTRUCTION

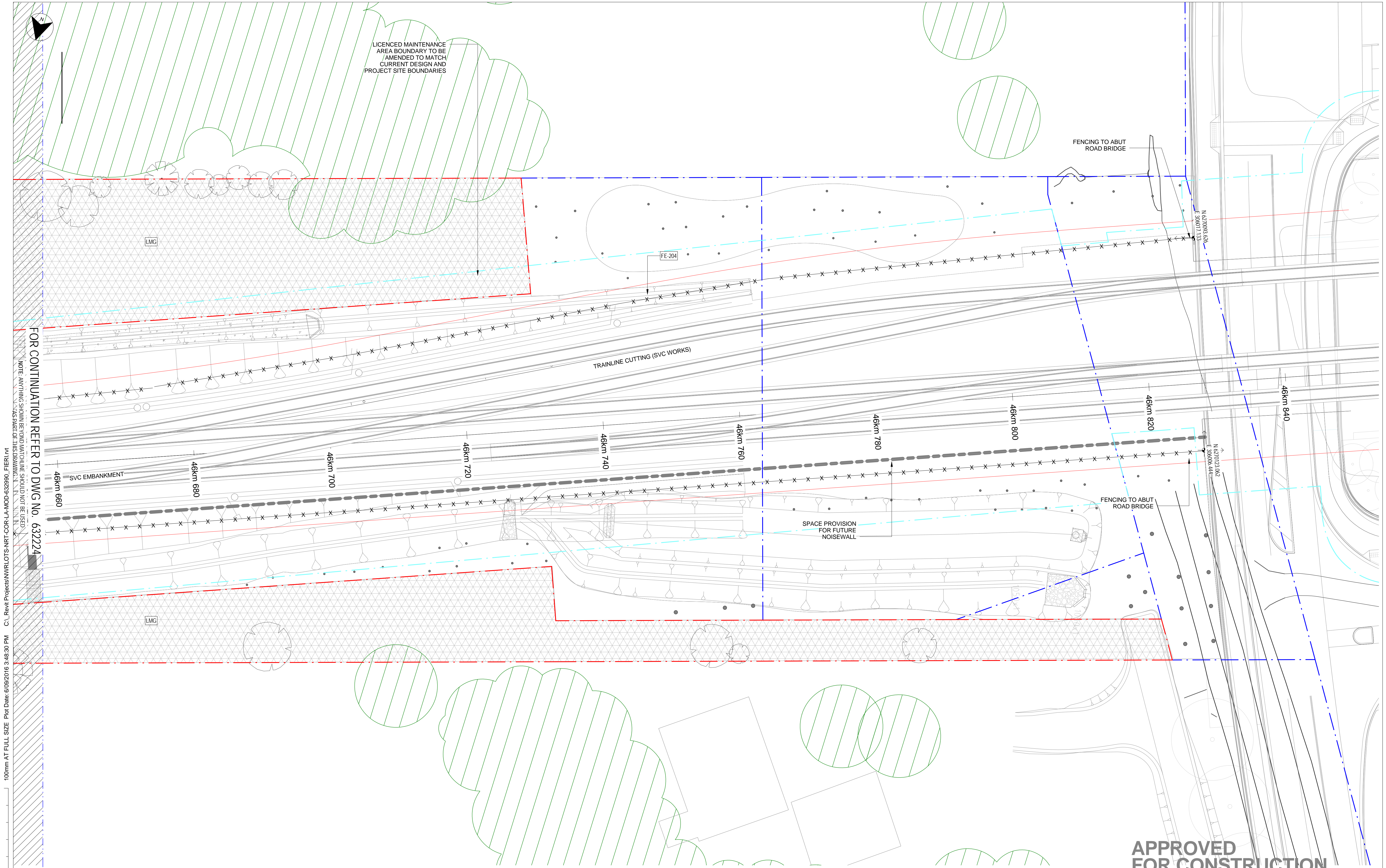
NORTH WEST RAIL LINK
CUDDEOGONG ROAD STATION
UTILITIES
INFORMATION PLAN
SHEET 2

STATUS FOR CONSTRUCTION | SHEET 2 OF 23 | ©
DRG NO. NWRL0TS-NRT-CUD-UT-DRG-482732 | NWRL REV 00



| DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING | | CLIENT | |
|---|--|---------------------------------------|--|
| NWRL0TS-OIC-CUD-CE-CEH-000007 | | Transport for NSW | |
| INDEPENDENT CERTIFIED CERTIFICATE | | northwest rapid transit | |
| NWRL0TS-OIC-CUD-CE-CEH-000007 | | DRAWN: M. J. JAMES | |
| NWRL0TS-OIC-CUD-CE-CEH-000007 | | DESIGNED: A. JAMES | |
| NWRL0TS-OIC-CUD-CE-CEH-000007 | | DRG CHECK: A. JAMES | |
| NWRL0TS-OIC-CUD-CE-CEH-000007 | | DESIGN CHECK: A. JAMES | |
| NWRL0TS-OIC-CUD-CE-CEH-000007 | | APPROVED: A. JAMES | |
| NWRL0TS-OIC-CUD-CE-CEH-000007 | | DATE: 4/12/2015 | |
| NWRL0TS-OIC-CUD-CE-CEH-000007 | | NOTE: Do not scale from this drawing. | |

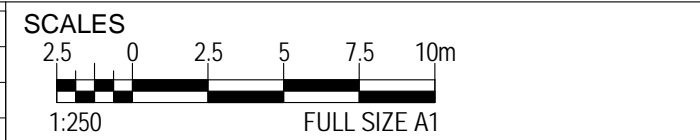
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FOR CONTINUATION REFER TO DWG No. 632224

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| 00 | AJ | 07/09/2016 | APPROVED FOR CONSTRUCTION ISSUE | AB | |
| REV | BY | DATE | DESCRIPTION | APPD | |
| A1 | Original | Co-ordinate System: MGA Zone 56 | Height Datum: A.H.D. | This sheet may be prepared using colour and may be incomplete if copied | |



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|---|
| DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING NWRLOTS-NRT-COR-LA-MOD.RVT |
| INDEPENDENT CERTIFIER CERTIFICATE NWRLOTS-OIC-SWD-LA-SWD-CER-000001 |
| NOTE: Do not scale from this drawing. |

CLIENT



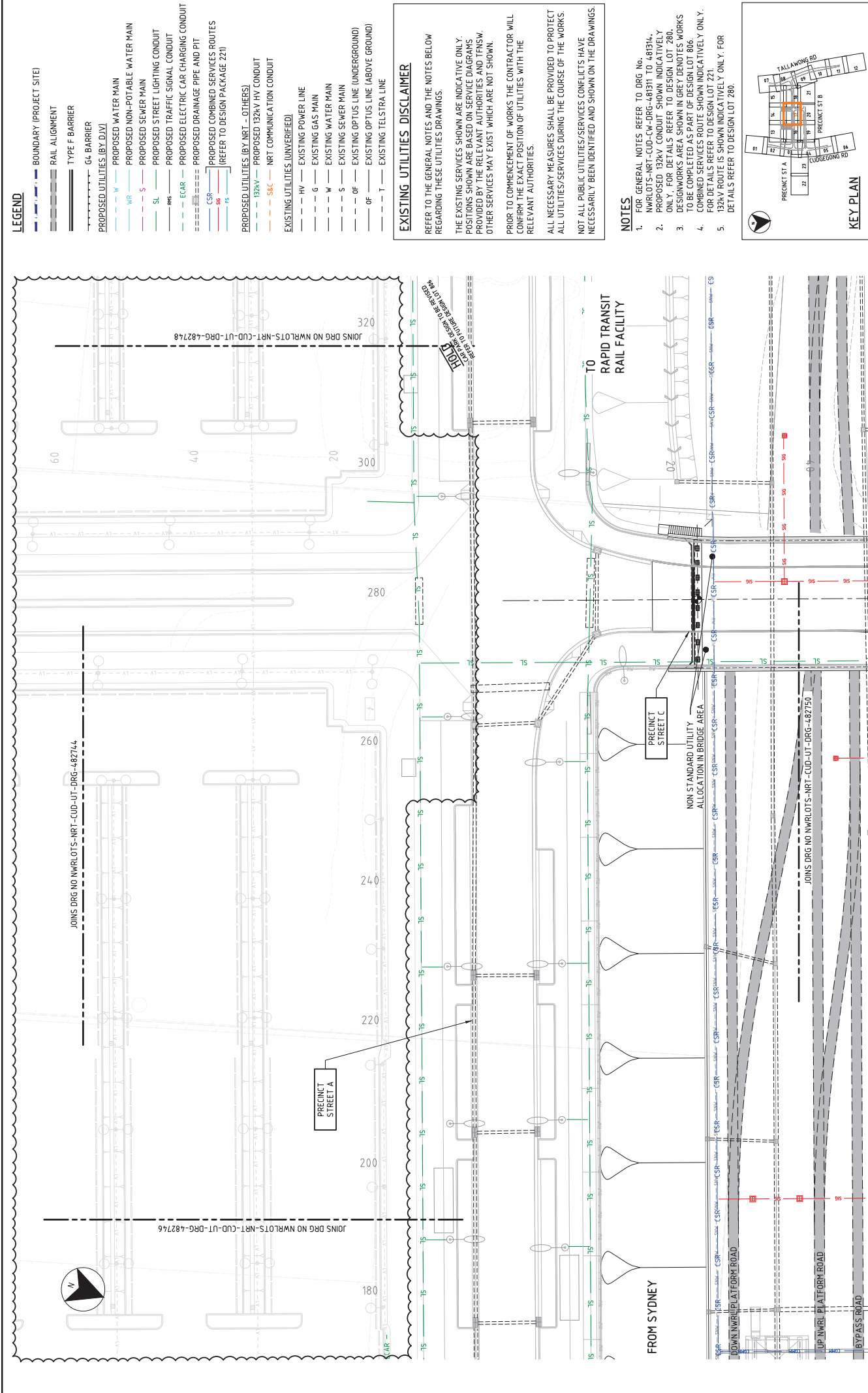
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|--|-------------|
| The information shown on this drawing is for the purposes of the North West Rail Link (NWRL) Project only. No warranty is given or implied as to its suitability for any other purpose. The Service Providers accept no liability arising from the use of this drawing and the information shown thereon for any purpose other than the North West Rail Link (NWRL) Project. | |
| SERVICE PROVIDERS | |
| DRAWN | A. JAFFRAY |
| DESIGNED | C. TIDSWELL |
| DRG CHECK | A. LUCAS |
| DESIGN CHECK | J. BOUSTEAD |
| APPROVED | A. BRUCE |
| | 18/07/2016 |

APPROVED FOR CONSTRUCTION

NORTH WEST RAIL LINK
CORRIDOR
LANDSCAPE ARCHITECTURE

GENERAL ARRANGEMENT SETOUT & FINISHES PLAN SHEET
26 OF 26

| | | |
|--------------------------------------|----------------|----|
| STATUS: FOR CONSTRUCTION | SHEET 26 OF 26 | © |
| DRG No NWRLOTS-NRT-RTC-LA-DRG-632225 | REV | 00 |



LEGEND

- BOUNDARY (PROJECT SITE)
- RAIL ALIGNMENT
- TYPE F BARRIER
- G4 BARRIER
- PROPOSED UTILITIES (BY DJV)
- PROPOSED WATER MAIN
- PROPOSED NON-POTABLE WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED STREET LIGHTING CONDUIT
- PROPOSED TRAFFIC SIGNAL CONDUIT
- PROPOSED ELECTRIC CAR CHARGING CONDUIT
- PROPOSED DRAINAGE PIPE AND PIT
- PROPOSED COMBINED SERVICES ROUTES (REFER TO DESIGN PACKAGE 221)
- PROPOSED UTILITIES (BY NRT - OTHERS)
- PROPOSED 132kV HV CONDUIT
- PROPOSED NRT COMMUNICATION CONDUIT
- EXISTING UTILITIES (UNVERIFIED)
- EXISTING POWER LINE
- EXISTING GAS MAIN
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING OPTUS LINE (UNDERGROUND)
- EXISTING OPTUS LINE (ABOVE GROUND)
- EXISTING TELSTRA LINE

EXISTING UTILITIES DISCLAIMER

REFER TO THE GENERAL NOTES AND THE NOTES BELOW REGARDING THESE UTILITIES DRAWINGS.

THE EXISTING SERVICES SHOWN ARE INDICATIVE ONLY. POSITIONS SHOWN ARE BASED ON SERVICE DIAGRAMS PROVIDED BY THE RELEVANT AUTHORITIES AND TFSW. OTHER SERVICES MAY EXIST WHICH ARE NOT SHOWN.

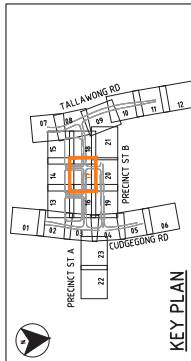
PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR WILL CONFIRM THE EXACT POSITION OF UTILITIES WITH THE RELEVANT AUTHORITIES.

ALL NECESSARY MEASURES SHALL BE PROVIDED TO PROTECT ALL UTILITIES/SERVICES DURING THE COURSE OF THE WORKS.

NOT ALL PUBLIC UTILITIES/SERVICES CONFLICTS HAVE NECESSARILY BEEN IDENTIFIED AND SHOWN ON THE DRAWINGS.

NOTES

- FOR GENERAL NOTES REFER TO DRG NO. NWRL015-NRT-CUD-UT-DRG-482714
- PROPOSED 132kV CONDUIT SHOWN INDICATIVELY ONLY. FOR DETAILS REFER TO DESIGN LOT 280.
- DESIGNWORKS AREA SHOWN IN GREY DENOTES WORKS TO BE COMPLETED AS PART OF DESIGN LOT 806.
- COMBINED SERVICES ROUTE SHOWN INDICATIVELY ONLY. FOR DETAILS REFER TO DESIGN LOT 221.
- 132kV ROUTE IS SHOWN INDICATIVELY ONLY. FOR DETAILS REFER TO DESIGN LOT 280.



APPROVED FOR CONSTRUCTION

NORTH WEST RAIL LINK
CUDGEOGONG ROAD STATION
UTILITIES
INFORMATION PLAN
SHEET 17

STATUS: FOR CONSTRUCTION | SHEET 17 OF 23 | © DRG NO. NWRL015-NRT-CUD-UT-DRG-482714 | NWRL REV 00

Transport for NSW

northwest rapid transit

DESIGN MODEL FILES USED FOR DOCUMENTATION OF THIS DRAWING

CLIENT

DESIGNER AUSTIN ASSOCIATES
DRAWN AUSTIN ASSOCIATES
CHECKED AUSTIN ASSOCIATES
APPROVED AUSTIN ASSOCIATES

INDEPENDENT CERTIFIED CERTIFICATE
NWRL015-01C-CUD-CE-CER-000007

NOTE: Do not scale from this drawing.

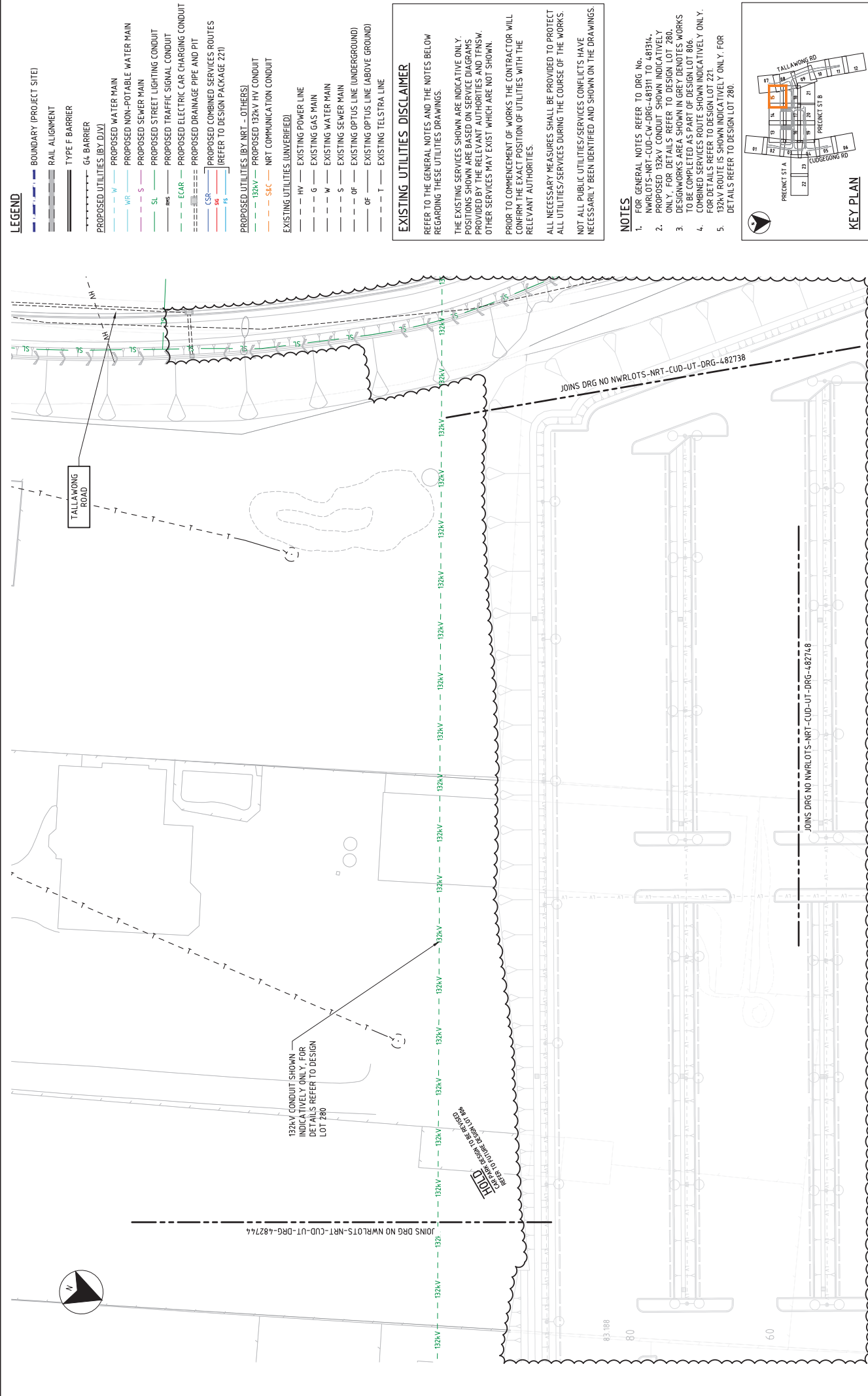
SCALE

25 0 25 75m
FULL SIZE A1
A4
A40

DATE 4/12/2015
DESIGN LOT 806 - APPROVED FOR CONSTRUCTION
DESIGNER AUSTIN ASSOCIATES

Co-ordinate System MGA Zone 56
Height Datum A.H.D.

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- LEGEND**
- BOUNDARY (PROJECT SITE)
 - RAIL ALIGNMENT
 - TYPE F BARRIER
 - G4 BARRIER
 - PROPOSED UTILITIES (BY DJV)
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 - EXISTING TELSTRA LINE

EXISTING UTILITIES DISCLAIMER

REFER TO THE GENERAL NOTES AND THE NOTES BELOW REGARDING THESE UTILITIES DRAWINGS.

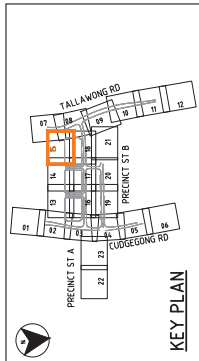
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 - PROPOSED 132kV CONDUIT SHOWN INDICATIVELY ONLY. FOR DETAILS REFER TO DESIGN LOT 280.
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APPROVED FOR CONSTRUCTION

NORTH WEST RAIL LINK
CUDGONG ROAD STATION
UTILITIES
INFORMATION PLAN
SHEET 15

STATUS: FOR CONSTRUCTION | SHEET 15 OF 23 | © DRG NO. NWRL0TS-NRT-CUD-UT-DRG-482745 | NWRL REV 00

Transport for NSW

northwest rapid transit

Service Providers

DESIGNED: A. JAMES
DRAWN: M. JAMES
CHECKED: A. JAMES
DESIGN CHECK: A. JAMES
APPROVED: A. JAMES

INDEPENDENT CERTIFIER CERTIFICATE
NWRL0TS-OIC-CUD-CE-CER-000007






























































NOTE: Do not scale from this drawing.

Co-ordinate System: MGA Zone 56 | Height Datum: A.H.D. | This sheet may be prepared using colour and may be incomplete if copied

Guide to reading Sydney Water DBYD Plans



Legend

| Sewer | | Property Details | |
|--|---|--|---|
| Sewer Main (with flow arrow & size type text) |  | Boundary Line |  |
| Disused Main |  | Easement Line |  |
| Rising Main |  | House Number |  |
| Maintenance Hole (with upstream depth to invert) |  | Lot Number |  |
| Sub-surface chamber |  | Proposed Land |  |
| Maintenance Hole with Overflow chamber |  | Sydney Water Heritage Site (please call 132 092 and ask for the Heritage Unit) |  |
| Ventshaft EDUCT |  | | |
| Ventshaft INDUCT |  | | |
| Property Connection Point (with chainage to downstream MH) |  | | |
| Concrete Encased Section |  | | |
| Terminal Maintenance Shaft |  | | |
| Maintenance Shaft |  | | |
| Rodding Point |  | | |
| Lamphole |  | | |
| Vertical |  | | |
| Pumping Station |  | | |
| Sewer Rehabilitation |  | | |
| Pressure Sewer | | Water | |
| Pressure Sewer Main |  | WaterMain - Potable (with size type text) |  |
| Pump Unit (Alarm, Electrical Cable, Pump Unit) |  | Disconnected Main - Potable |  |
| Property Valve Boundary Assembly |  | Proposed Main - Potable |  |
| Stop Valve |  | Water Main - Recycled |  |
| Reducer / Taper |  | Special Supply Conditions - Potable |  |
| Flushing Point |  | Special Supply Conditions - Recycled |  |
| Vacuum Sewer | | Restrained Joints - Potable |  |
| Pressure Sewer Main |  | Restrained Joints - Recycled |  |
| Division Valve |  | Hydrant |  |
| Vacuum Chamber |  | Maintenance Hole |  |
| Clean Out Point |  | Stop Valve |  |
| Stormwater | | Stop Valve with By-pass |  |
| Stormwater Pipe |  | Stop Valve with Tapers |  |
| Stormwater Channel |  | Closed Stop Valve |  |
| Stormwater Gully |  | Air Valve |  |
| Stormwater Maintenance Hole |  | Valve |  |
| | | Scour |  |
| | | Reducer / Taper |  |
| | | Vertical Bends |  |
| | | Reservoir |  |
| | | Recycled Water is shown as per Potable above. Colour as indicated |  |
| | | Private Mains | |
| | | Potable Water Main |  |
| | | Recycled Water Main |  |
| | | Sewer Main |  |
| | | Symbols for Private Mains shown grey | |

Pipe Types

| | | | |
|----------------|------------------------------------|----------------|---|
| ABS | Acrylonitrile Butadiene Styrene | AC | Asbestos Cement |
| BRICK | Brick | CI | Cast Iron |
| CICL | Cast Iron Cement Lined | CONC | Concrete |
| COPPER | Copper | DI | Ductile Iron |
| DICL | Ductile Iron Cement (mortar) Lined | DIPL | Ductile Iron Polymeric Lined |
| EW | Earthenware | FIBG | Fibreglass |
| FL BAR | Forged Locking Bar | GI | Galvanised Iron |
| GRP | Glass Reinforced Plastics | HDPE | High Density Polyethylene |
| MS | Mild Steel | MSCL | Mild Steel Cement Lined |
| PE | Polyethylene | PC | Polymer Concrete |
| PP | Polypropylene | PVC | Polyvinylchloride |
| PVC - M | Polyvinylchloride, Modified | PVC - O | Polyvinylchloride, Oriented |
| PVC - U | Polyvinylchloride, Unplasticised | RC | Reinforced Concrete |
| RC-PL | Reinforced Concrete Plastics Lined | S | Steel |
| SCL | Steel Cement (mortar) Lined | SCL IBL | Steel Cement Lined Internal Bitumen Lined |
| SGW | Salt Glazed Ware | SPL | Steel Polymeric Lined |
| SS | Stainless Steel | STONE | Stone |
| VC | Vitrified Clay | WI | Wrought Iron |
| WS | Woodstave | | |

Further Information

Please consult the [Dial Before You Dig enquiries](#) page on the Sydney Water website

For general enquiries please call the Customer Contact Centre on **132 092**

In an emergency, or to notify Sydney Water of damage or threats to its structures, call 13 20 90 (24 hours, 7 days)

DBYD Address:
n/a Cudgegong Road
The Ponds NSW 2769

DBYD Job No: 13528284

DBYD Sequence No: 67659635

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SYDNEY WATER CORPORATION

Scale: 1:1500

Date of Production: 15/01/2018



Plan 1 of 1

