

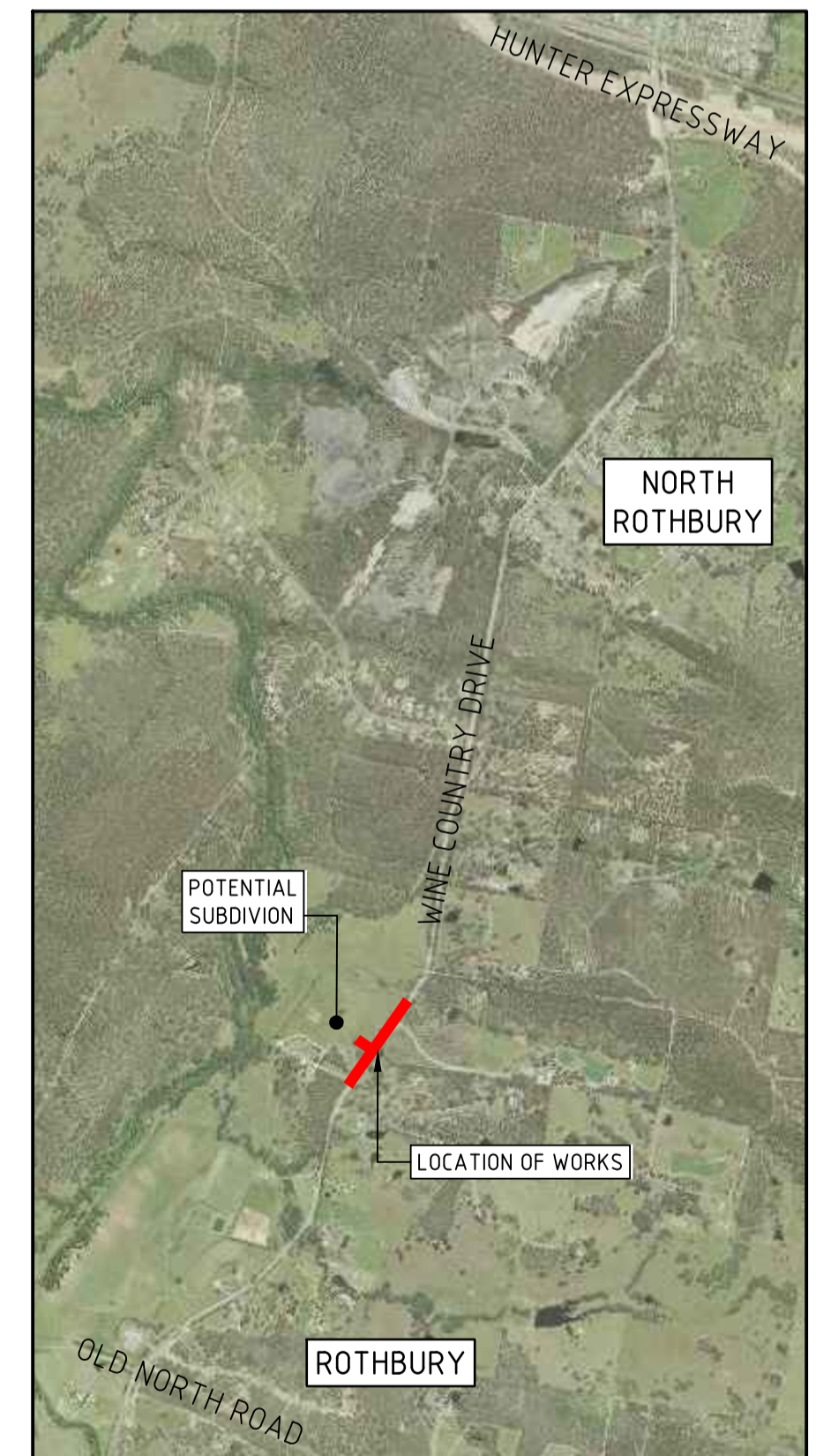
OVERVIEW 1:800

| LEGEND |                                      |
|--------|--------------------------------------|
|        | POTENTIAL SUBDIVISION BOUNDARY       |
|        | EXISTING BOUNDARY (CADASTRE)         |
| SA     | RMS KERB - TYPE SA                   |
| SF     | RMS KERB - TYPE SF                   |
|        | PROPOSED PAVEMENT                    |
|        | CONCRETE MEDIAN                      |
| eXX    | EXISTING LINEMARKING 'TYPE AS BELOW' |
| BB     | DOUBLE BARRIER LINES                 |
| E1     | LEFT HAND EDGE LINE                  |
| E4     | OUTLINE OF TRAFFIC ISLAND            |
| E5     | OUTLINE OF PAINTED MEDIAN            |
| TB     | GIVE WAY LINE                        |
| C1     | CONTINUITY LINE                      |
| C4     | BICYCLE LANE CONTINUITY LINE         |
| L7     | BICYCLE LANE LINE NEXT TO TRAFFIC    |

| NOTES                                     |  |
|---|--|
| WINE COUNTRY DRIVE POSTED SPEED = 90 km/h |  |
| DESIGN SPEED = 100 km/h                   |  |
| TURNING VEHICLE = 19m AV                  |  |



INSET 1:200



LOCALITY PLAN  
NOT TO SCALE

CONTINUES ON SHEET 2

**NOT FOR CONSTRUCTION**

DRAWN: R. GREVE  
DESIGNED: T. SOURES  
JOB MANAGER: B. CLARK  
VERIFIER:

| REVISION | DESCRIPTION                  | ISSUED | VER'D | APP'D | DATE     | CLIENT |
|----------|------------------------------|--------|-------|-------|----------|--------|
| 1        | ISSUED FOR STRATEGIC CONCEPT | TS     |       |       | 04.11.20 |        |

**LWP**  
bringing communities to life

DRAWING NOT TO BE USED FOR CONSTRUCTION  
UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

**Huntlee**

ARCHITECT

THE COPYRIGHT OF THIS DRAWING REMAINS WITH  
NORTHROP CONSULTING ENGINEERS PTY LTD

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.

SCALE 1:800@A1  
SCALE 1:200@A1

**NORTHROP**  
Newcastle

Level 1, 215 Pacific Hwy, Charlestown NSW 2290  
Ph (02) 4943 1777 Email newcastle@northrop.com.au  
ABN 81 094 433 100

PROJECT

**HUNTLEE  
LARGE LOT SUBDIVISION**

DRAWING TITLE

**CIVIL SKETCH**

PROPOSED CHR / CHL INTERSECTION  
ALONG WINE COUNTRY DRIVE  
SHEET 1

JOB NUMBER

**NL200554**

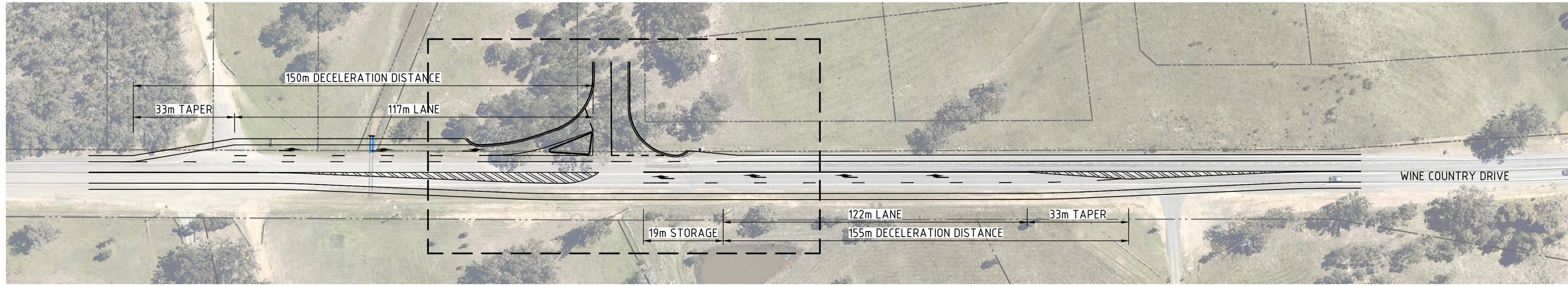
DRAWING NUMBER

**CSK02.01**

REVISION

**1**

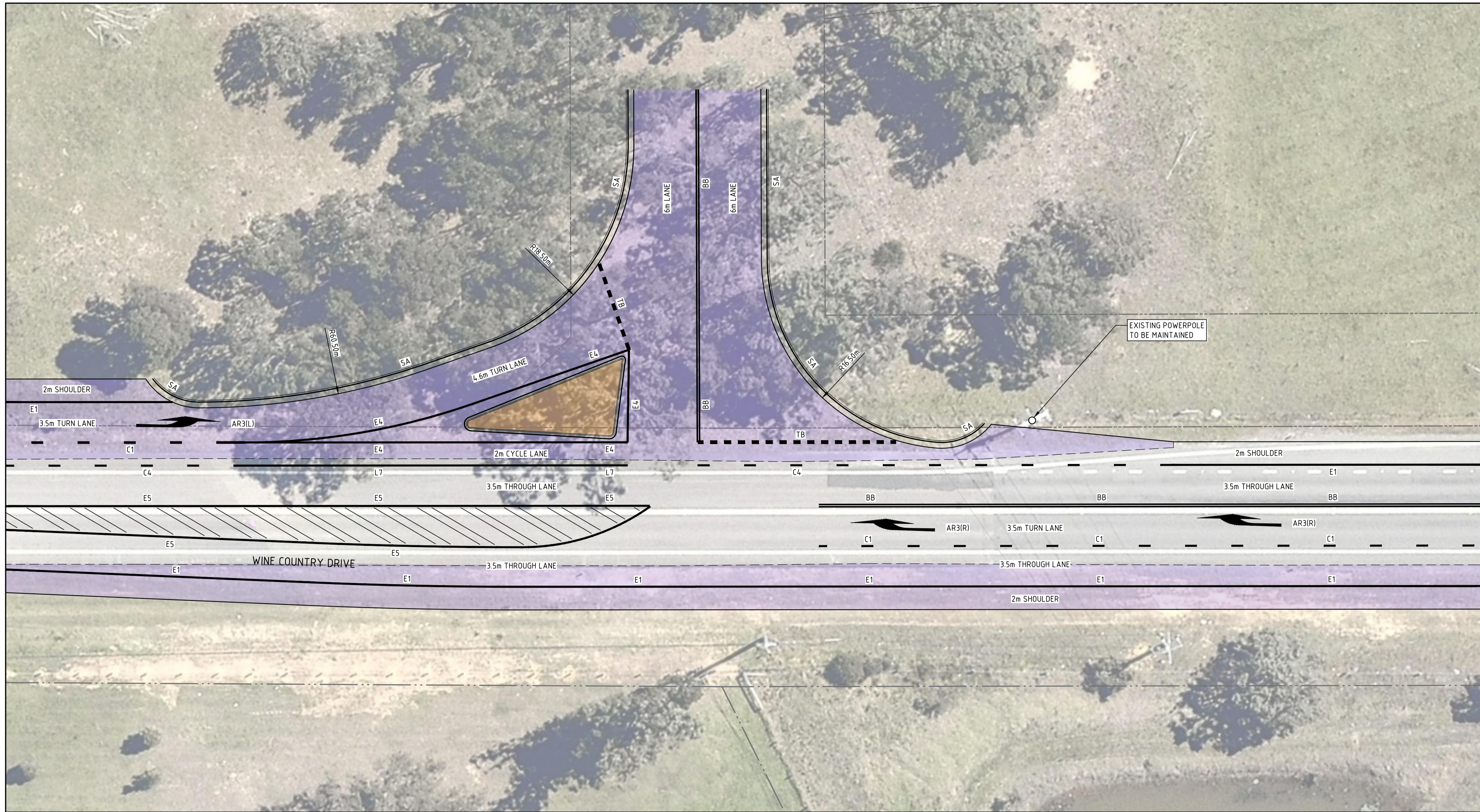
DRAWING SHEET SIZE = A1



OVERVIEW 1:800

| LEGEND |                                      |
|--------|--------------------------------------|
|        | POTENTIAL SUBDIVISION BOUNDARY       |
|        | EXISTING BOUNDARY (CADASTRE)         |
| SA     | RMS KERB - TYPE SA                   |
| SF     | RMS KERB - TYPE SF                   |
|        | PROPOSED PAVEMENT                    |
|        | CONCRETE MEDIAN                      |
| eXX    | EXISTING LINEMARKING 'TYPE AS BELOW' |
| BB     | DOUBLE BARRIER LINES                 |
| E1     | LEFT HAND EDGE LINE                  |
| E4     | OUTLINE OF TRAFFIC ISLAND            |
| E5     | OUTLINE OF PAINTED MEDIAN            |
| TB     | GIVE WAY LINE                        |
| C1     | CONTINUITY LINE                      |
| C4     | BICYCLE LANE CONTINUITY LINE         |
| L7     | BICYCLE LANE LINE NEXT TO TRAFFIC    |

| NOTES                                     |  |
|---|--|
| WINE COUNTRY DRIVE POSTED SPEED = 90 km/h |  |
| DESIGN SPEED = 100 km/h                   |  |
| TURNING VEHICLE = 19m AV                  |  |



INSET 1:200

DRAWN: R. GREVE  
DESIGNED: T. SOURES  
JOB MANAGER: B. CLARK  
VERIFIER: CONTINUES ON SHEET 1

CONTINUES ON SHEET 3

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION                  | ISSUED | VER'D | APP'D | DATE     | CLIENT |
|----------|------------------------------|--------|-------|-------|----------|--------|
| 1        | ISSUED FOR STRATEGIC CONCEPT | TS     |       |       | 04.11.20 |        |

CLIENT

DRAWING NOT TO BE USED FOR CONSTRUCTION  
UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

THE COPYRIGHT OF THIS DRAWING REMAINS WITH  
NORTHROP CONSULTING ENGINEERS PTY LTD

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.

SCALE 1:800@A1  
SCALE 1:200@A1

Level 1, 215 Pacific Hwy, Charlestown NSW 2290  
Ph (02) 4943 1777 Email newcastle@northrop.com.au  
ABN 81 094 433 100

PROJECT

**HUNTLEE  
LARGE LOT SUBDIVISION**

DRAWING TITLE

**CIVIL SKETCH**

PROPOSED CHR / CHL INTERSECTION  
ALONG WINE COUNTRY DRIVE  
SHEET 2

JOB NUMBER

**NL200554**

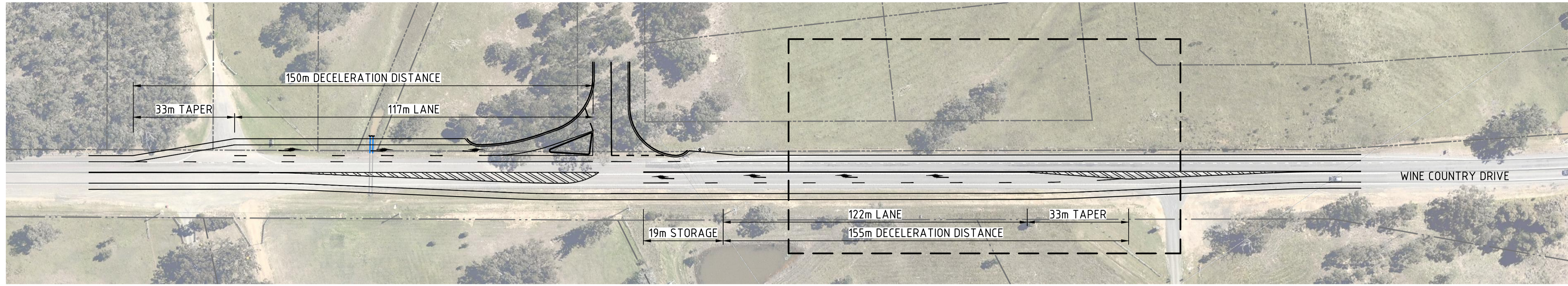
DRAWING NUMBER

**CSK02.02**

REVISION

**1**

DRAWING SHEET SIZE = A1



OVERVIEW 1:800

| LEGEND |                                      |
|--------|--------------------------------------|
|        | POTENTIAL SUBDIVISION BOUNDARY       |
|        | EXISTING BOUNDARY (CADASTRE)         |
| SA     | RMS KERB - TYPE SA                   |
| SF     | RMS KERB - TYPE SF                   |
|        | PROPOSED PAVEMENT                    |
|        | CONCRETE MEDIAN                      |
| eXX    | EXISTING LINEMARKING 'TYPE AS BELOW' |
| BB     | DOUBLE BARRIER LINES                 |
| E1     | LEFT HAND EDGE LINE                  |
| E4     | OUTLINE OF TRAFFIC ISLAND            |
| E5     | OUTLINE OF PAINTED MEDIAN            |
| TB     | GIVE WAY LINE                        |
| C1     | CONTINUITY LINE                      |
| C4     | BICYCLE LANE CONTINUITY LINE         |
| L7     | BICYCLE LANE LINE NEXT TO TRAFFIC    |

| NOTES                                     |  |
|---|--|
| WINE COUNTRY DRIVE POSTED SPEED = 90 km/h |  |
| DESIGN SPEED = 100 km/h                   |  |
| TURNING VEHICLE = 19m AV                  |  |



INSET 1:200

DRAWN: R. GREVE  
DESIGNED: T. SOURES  
JOB MANAGER: B. CLARK  
VERIFIER: B. CLARK  
CONTINUES ON SHEET 2

CONTINUES ON SHEET 4

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION                  | ISSUED | VER'D | APP'D | DATE     | CLIENT |
|----------|------------------------------|--------|-------|-------|----------|--------|
| 1        | ISSUED FOR STRATEGIC CONCEPT | TS     |       |       | 04.11.20 |        |

CLIENT

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.

SCALE 1:800@A1  
SCALE 1:200@A1

Level 1, 215 Pacific Hwy, Charlestown NSW 2290  
Ph (02) 4943 1777 Email newcastle@northrop.com.au  
ABN 81 094 433 100

PROJECT

**HUNTLEE  
LARGE LOT SUBDIVISION**

DRAWING TITLE

**CIVIL SKETCH**

**PROPOSED CHR / CHL INTERSECTION  
ALONG WINE COUNTRY DRIVE  
SHEET 3**

JOB NUMBER

**NL200554**

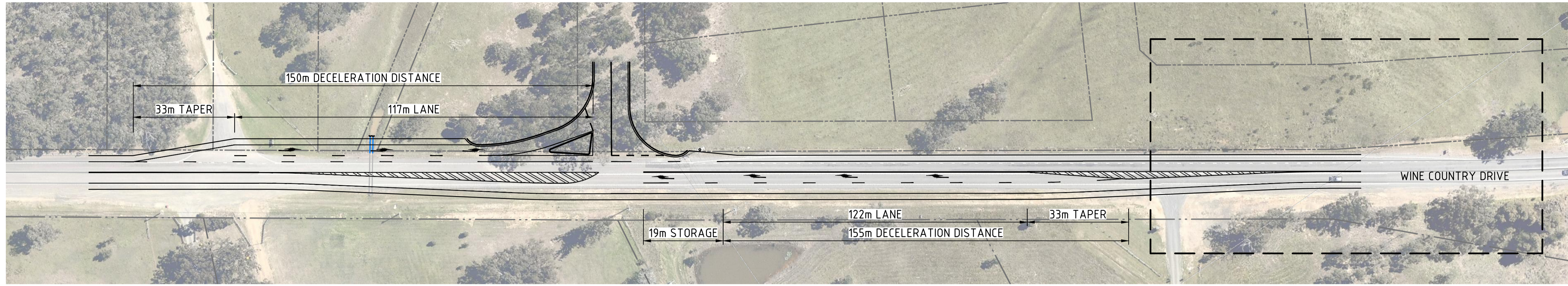
DRAWING NUMBER

**CSK02.03**

REVISION

**1**

DRAWING SHEET SIZE = A1



OVERVIEW 1:800

| LEGEND |                                      |
|--------|--------------------------------------|
|        | POTENTIAL SUBDIVISION BOUNDARY       |
|        | EXISTING BOUNDARY (CADASTRE)         |
| SA     | RMS KERB - TYPE SA                   |
| SF     | RMS KERB - TYPE SF                   |
|        | PROPOSED PAVEMENT                    |
|        | CONCRETE MEDIAN                      |
| eXX    | EXISTING LINEMARKING 'TYPE AS BELOW' |
| BB     | DOUBLE BARRIER LINES                 |
| E1     | LEFT HAND EDGE LINE                  |
| E4     | OUTLINE OF TRAFFIC ISLAND            |
| E5     | OUTLINE OF PAINTED MEDIAN            |
| TB     | GIVE WAY LINE                        |
| C1     | CONTINUITY LINE                      |
| C4     | BICYCLE LANE CONTINUITY LINE         |
| L7     | BICYCLE LANE LINE NEXT TO TRAFFIC    |

| NOTES                                     |  |
|---|--|
| WINE COUNTRY DRIVE POSTED SPEED = 90 km/h |  |
| DESIGN SPEED = 100 km/h                   |  |
| TURNING VEHICLE = 19m AV                  |  |



INSET 1:200

DRAWN: R. GREVE  
DESIGNED: T. SOUIRES  
JOB MANAGER: B. CLARK  
VERIFIER: CONTINUES ON SHEET 3

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION                  | ISSUED | VER'D | APP'D | DATE     |
|----------|------------------------------|--------|-------|-------|----------|
| 1        | ISSUED FOR STRATEGIC CONCEPT | TS     |       |       | 04.11.20 |

CLIENT

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.

SCALE 1:800@A1  
SCALE 1:200@A1

Level 1, 215 Pacific Hwy, Charlestown NSW 2290  
Ph (02) 4943 1777 Email newcastle@northrop.com.au  
ABN 81 094 433 100

PROJECT

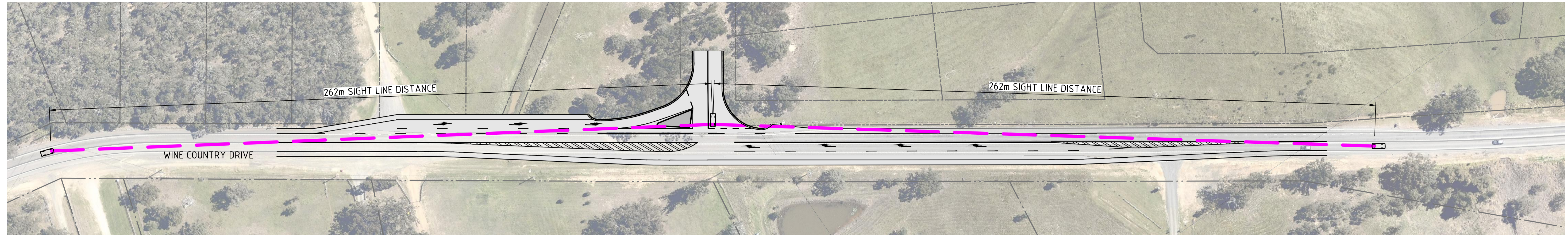
**HUNTLEE  
LARGE LOT SUBDIVISION**

DRAWING TITLE

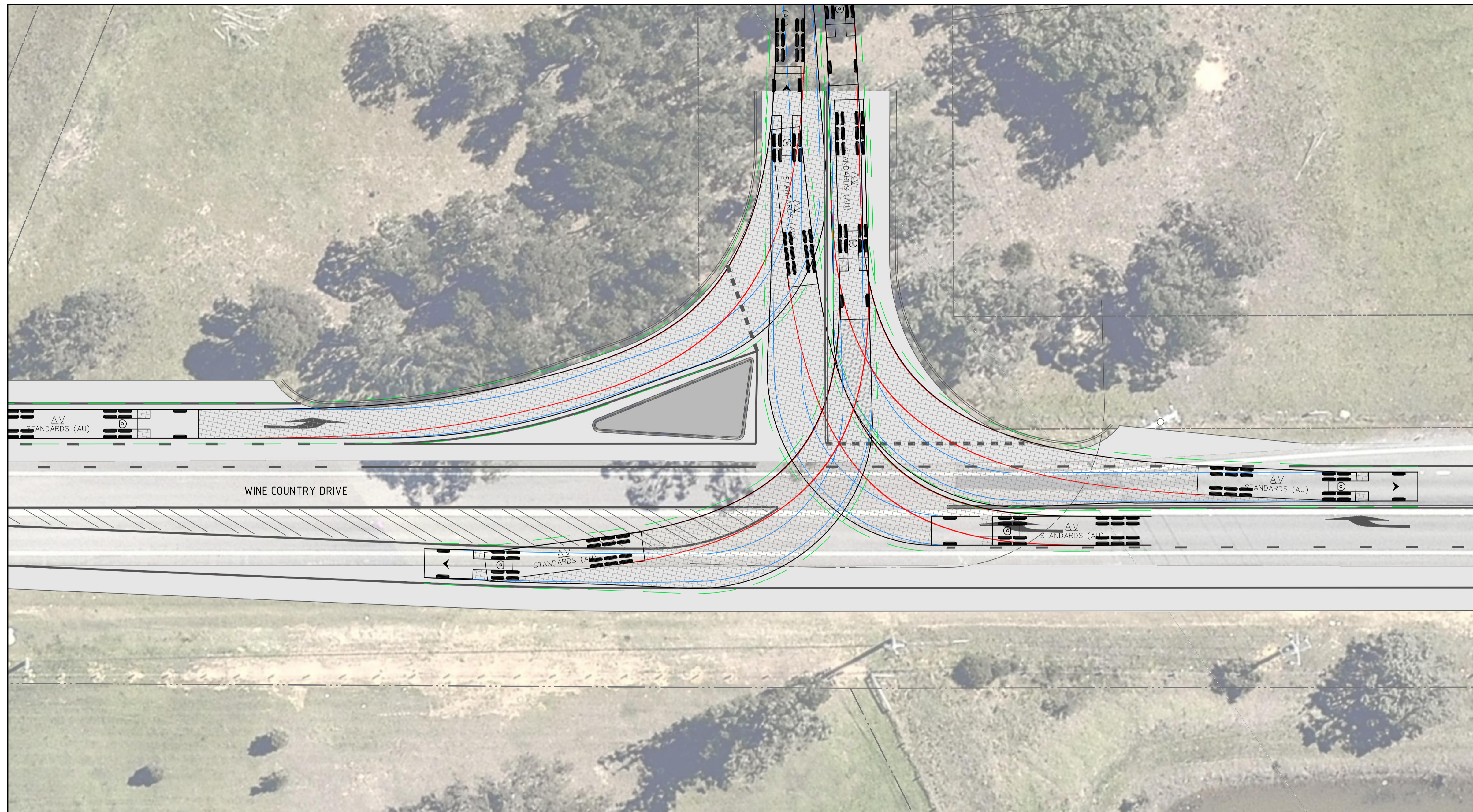
**CIVIL SKETCH**

**PROPOSED CHR / CHL INTERSECTION  
ALONG WINE COUNTRY DRIVE  
SHEET 4**

|                         |          |
|-------------------------|----------|
| JOB NUMBER              |          |
| <b>NL200554</b>         |          |
| DRAWING NUMBER          | REVISION |
| <b>CSK02.04</b>         | <b>1</b> |
| DRAWING SHEET SIZE = A1 |          |



OVERVIEW 1:800



INSET 1:200

### VEHICLE MOVEMENTS

FORWARD MOVEMENT

- VEHICLE BODY
- VEHICLE WHEELS
- VEHICLE LATERAL CLEARANCE (0.5m FROM BODY)

### DISCLAIMER

THE TURNING PATHS/TEMPLATES PROVIDED HAVE BEEN PRODUCED USING SIMULATION SOFTWARE AND ARE TO BE USED AS A GUIDE ONLY. THESE SIMULATIONS MAY NOT REFLECT ACTUAL DRIVER BEHAVIOUR AND/OR EXPERIENCE UNDER ACTUAL DRIVING CONDITIONS.

IT IS NORTHROP'S INTENTION TO UTILISE STANDARD VEHICLES NOMINATED IN AS2890.1 AND AS2890.2 FOR ALL DESIGN/CHECKING VEHICLE SIMULATIONS AT AN IDEAL MOVEMENT SPEED OF 10KM/H WITH A NOMINAL VEHICLE BODY OFFSET OF 500MM. WHERE MANOEUVRABILITY IS LIMITED AND SITE CONDITIONS ARE FAVOURABLE, AN ABSOLUTE MINIMUM SPEED OF 5KM/H WITH AN ABSOLUTE MINIMUM VEHICLE BODY CLEARANCE OF 300MM MAY BE ADOPTED.

IF THE USE OF SPECIFIC VEHICLES (NOT DETAILED UNDER AS2890) IS REQUESTED, IT IS TO BE NOTED THAT THEIR DIMENSIONS AND MANOEUVRING CHARACTERISTICS HAVE BEEN INTERPRETED INTO THE SIMULATION SOFTWARE FROM INFORMATION PROVIDED BY SERVICE PROVIDERS AND VEHICLE MANUFACTURERS. NORTHROP ACCEPTS NO RESPONSIBILITY OF THE ACCURACY THESE VEHICLE MOVEMENTS, AND ANY MANOEUVRES PROVIDED SHOULD ONLY BE USED AS A GUIDE WITH ACTUAL DESIGN BEING BASED AROUND ENGINEERING ADVICE AND AUSTRALIAN STANDARDS.

AT ALL TIMES, STANDARD VEHICLE TURNING PATHS/TEMPLATES ARE TO TAKE DESIGN PRECEDENCE OVER ALL SPECIFIC VEHICLES. UNDER NO CIRCUMSTANCE DOES THE SIMULATION PROVIDED RELIEVE ANY PARTY OF THEIR ROLE AND RESPONSIBILITY FOR PROVIDING DESIGN SOLUTIONS IN ACCORDANCE WITH GOOD DESIGN PRACTICES.

### VEHICLE PROFILE

PRIME MOVER AND SEMI TRAILER (19m)

|                             |         |
|-----------------------------|---------|
| OVERALL LENGTH              | 19.000m |
| OVERALL WIDTH               | 2.500m  |
| OVERALL BODY HEIGHT         | 4.300m  |
| MIN BODY GROUND CLEARANCE   | 0.540m  |
| TRACK WIDTH                 | 2.500m  |
| LOCK-TO-LOCK TIME           | 6.00s   |
| CURB TO CURB TURNING RADIUS | 12.500m |

**NOT FOR CONSTRUCTION**

DRAWN: R. GREVE DESIGNED: T. SOURES JOB MANAGER: B. CLARK VERIFIER:

| REVISION | DESCRIPTION                  | ISSUED | VER'D | APP'D | DATE     | CLIENT |
|----------|------------------------------|--------|-------|-------|----------|--------|
| 1        | ISSUED FOR STRATEGIC CONCEPT | TS     |       |       | 04.11.20 |        |

CLIENT

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.

SCALE 1:800@A1  
SCALE 1:200@A1

Level 1, 215 Pacific Hwy, Charlestown NSW 2290  
Ph (02) 4943 1777 Email newcastle@northrop.com.au  
ABN 81 094 433 100

PROJECT

**HUNTLEE  
LARGE LOT SUBDIVISION**

DRAWING TITLE

**CIVIL SKETCH  
SWEEP PATHS PLAN**

JOB NUMBER

**NL200554**

DRAWING NUMBER

**CSK02.11**

REVISION

**1**

DRAWING SHEET SIZE = A1