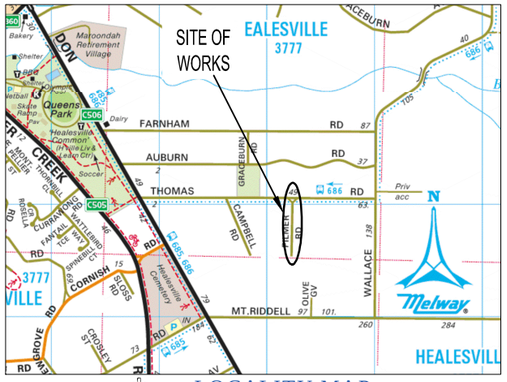
ROAD & DRAINAGE RECONSTRUCTION WORKS

PILMER ROAD, HEALESVILLE



LOCALITY MAP

NOT TO SCALE

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WARNING
BEWARE OF UNDERGROUND SERVICES
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DRAWING INDEX

SHEET No.	TITLE
1	LOCALITY PLAN, GENERAL NOTES, DETAILS & DRAWING INDEX
2	OVERALL PLAN
3	SECTIONS A-A, B-B, C-C & D-D
4	GENERAL LAYOUT PLAN
5	GENERAL LAYOUT PLAN
6	SWEPT PATH ANALYSIS PLAN - YRSC WASTE VEHICLE
7	SWEPT PATH ANALYSIS PLAN - B85 VEHICLE

NOTES

GENERAL

1. THE CONTRACTOR IS TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITY SERVICES PRIOR TO CARRYING OUT WORKS BY TELEPHONING 1100 "DIAL BEFORE YOU DIG".
2. DISCREPANCIES BETWEEN PLANS AND EXISTING CONDITIONS ARE TO BE REPORTED IMMEDIATELY TO THE COUNCIL'S SUPERVISING ENGINEER.
3. ALL SURPLUS EXCAVATED MATERIAL REMAINS THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE OR ADVISED BY THE COUNCIL'S SUPERVISING ENGINEER.
4. "REMOVE" SHALL MEAN REMOVE OFF-SITE AND DISPOSE OF AT AN APPROVED DISPOSAL SITE AT THE CONTRACTOR'S EXPENSE, UNLESS SPECIFIED OTHERWISE.
5. ON COMPLETION OF CONSTRUCTION ALL WORK AREA ARE TO BE CLEANED UP & REINSTATED TO THE SATISFACTION OF THE COUNCIL'S SUPERVISING ENGINEER.

PAVEMENT

6. ROAD CROSSFALL TO BE 1 in 36 FALLING TOWARDS THE TABLE DRAIN OR KERB AND CHANNEL UNLESS SPECIFIED OTHERWISE.
7. AT NEW FILL AREAS THE TOPSOIL SHALL BE STRIPPED AND FILLING MATERIAL PLACED IN 150mm THICK LAYER AND COMPACTED TO 95% A.A.S.H.O. COMPACTION TEST, THE TOPSOIL IS THEN RE-SPREAD ON THE BATTER AREAS.
8. NEW CONCRETE FOOTPATH PAVING TO BE 32 MPa STRENGTH.
9. TACTILE GROUND SURFACE INDICATOR (TGSI) PAVERS ARE TO BE 300mm x 300mm x 40mm PRE-CAST CONCRETE PAVERS AND SHALL HAVE A MINIMUM LUMINANCE CONTRAST OF 30% COMPARED TO THE AMOUNT OF LIGHT REFLECTED FROM THE ADJACENT SURFACE.

ROADSIDE

10. EXISTING DRIVEWAY ENTRANCES TO BE REINSTATED AND SEALED FOR 1.0m FROM EDGE OF SEAL WITH 50mm COMPACTED DEPTH 10mm TYPE N ASPHALT ON A BASE OF 100mm COMPACTED DEPTH CLASS 2 FINE CRUSHED ROCK.
11. EXISTING DRIVEWAYS ARE TO BE REINSTATED FROM BACK OF KERB OR EDGE OF SEAL AT A MAXIMUM GRADE OF 1 in 8 FOR 2.0m THEN 1 in 4 THEREAFTER WITH A TRANSITION OF 1 in 6 FOR 2.0m IS PREFERRED WHERE POSSIBLE AS PER:

11.a. GRAVEL DRIVEWAY WITH 50mm COMPACTED DEPTH OF 3% CEMENT TREATED CRUSHED ROCK UNLESS SPECIFIED OTHERWISE.

11.b. ASPHALT DRIVEWAYS WITH 50mm COMPACTED DEPTH 10mm NOMINAL SIZE ASPHALT ON A BASE OF 100mm COMPACTED DEPTH CLASS 2 FINE CRUSHED ROCK.

11.c. CONCRETE DRIVEWAYS WITH 150mm DEPTH CONCRETE PAVING ON A BASE OF 50mm COMPACTED DEPTH CLASS 2 FINE CRUSHED ROCK.

11.d. BRICK PAVER DRIVEWAYS WITH SUITABLE HEAVY DUTY BRICK PAVERS ON 30mm OF BEDDING SAND ON A BASE OF 100mm COMPACTED DEPTH CLASS 2 FINE CRUSHED ROCK.

12. TABLE DRAIN TO BE CLEANED, REDEFINED OR DEFINED AS NECESSARY ALONG THE HIGH SIDE OF THE ROADWAY, REFER TO TYPE OF SECTION FOR TABLE DRAIN PROFILE, MINIMUM DEPTH 300mm.

DRAINAGE

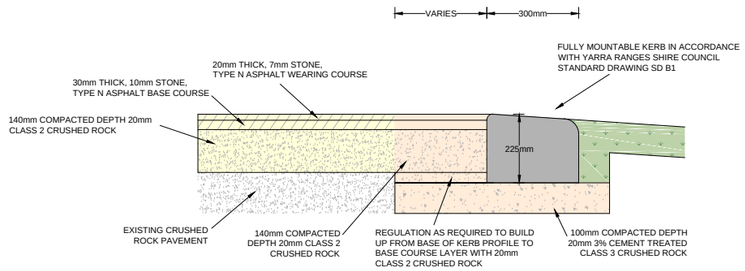
13. ALL DRAINAGE PIPES TO BE CLASS 2 RUBBER RING JOINTED SPIGOT AND SOCKET UNLESS SPECIFIED OTHERWISE.
14. ALL PROPERTY STORM WATER OUTLETS WITHIN 3.0m OF THE NEW DRAIN OR KERB ARE TO BE CONNECTED TO UNDERGROUND DRAINAGE PIPES WHERE AVAILABLE, OR BACK OF KERB WHERE UNDERGROUND DRAINAGE PIPES ARE NOT AVAILABLE.
15. DRAINAGE PITS GREATER THAN 1.0m IN DEPTH TO BE PROVIDED WITH STEP IRONS AT 300mm CENTRES VERTICALLY.
16. A.G. DRAIN PLACED BEHIND KERB AND CHANNEL AS SHOWN ON PLAN IF WITHIN 3.0m OF ANY TREE EXCAVATION TO BE HAND DUG OR BORED TO MINIMISE ROOT DAMAGE OF TREE.

VEGETATION

17. TREE PROTECTION ZONES (TPZ) HAVE BEEN SHOWN FOR ALL TREES LOCATED CLOSE TO THE WORKS AREA. WORKS AND ANY STOCKPILES OF CONSTRUCTION EQUIPMENT AND MATERIAL ARE TO BE CONTAINED OUTSIDE THE TPZ UNLESS SPECIFICALLY APPROVED BY THIS PLAN. PRIOR APPROVAL MUST BE SOUGHT FOR ANY WORKS NOT SPECIFIED AND APPROVED BY THIS PLAN THAT ARE TO BE CONDUCTED WITHIN THE TPZ OF ANY TREE.
18. ONLY TREES SHOWN TO BE REMOVED ON THIS PLAN CAN BE REMOVED. ANY DAMAGE TO THE BARK, BRANCHES, TRUNKS OR ROOTS OF OTHER TREES SHOULD BE IMMEDIATELY REPORTED TO COUNCIL'S CONSTRUCTION SURVEILLANCE OFFICER BEFORE ANY WORKS CONTINUE AROUND THE SUBJECT VEGETATION.

ANCILLARY

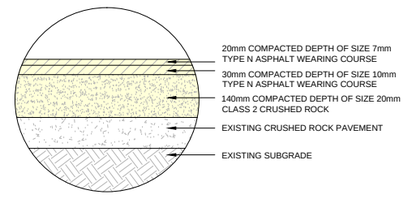
19. ALL EXISTING SIGNS AND POSTS REMAIN THE PROPERTY OF THE COUNCIL.



FULLY MOUNTABLE KERB DETAIL

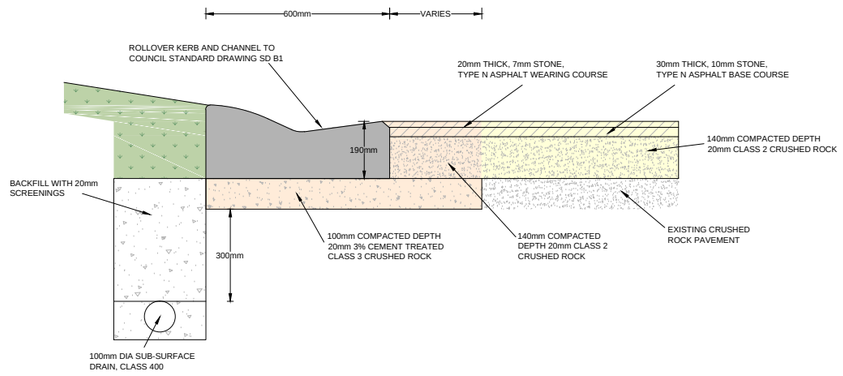
GENERALLY IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL DRAWING SD / D5

NOT TO SCALE



OVERLAY EXISTING PAVEMENT DETAIL

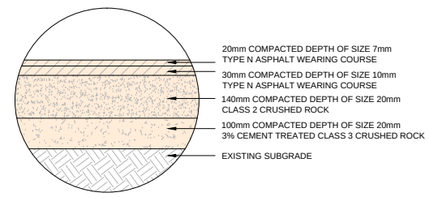
NOT TO SCALE



ROLLOVER KERB AND CHANNEL DETAIL

GENERALLY IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL DRAWING SD / D5

NOT TO SCALE



FULL DEPTH PAVEMENT DETAIL

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VER	DESCRIPTION	DATE
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CIVIL ENGINEERING DESIGN: LUKE WHITFIELD
TECHNICAL PEER REVIEW: CHRIS PROCTOR
REGISTERED & CHARTERED PROFESSIONAL ENGINEER: CHRIS PROCTOR

ORIENTATION: OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE: AS SHOWN @ A1
HEIGHT DATUM: AHD
COORDINATE DATUM: MGA 94 ZONE 55
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AERIAL IMAGE DATE: 30-11-2017

LOCAL GOVERNMENT AREA: SHIRE OF YARRA RANGES
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CLIENT PROJECT MANAGER / CONTACT: JONATHAN PRAVIN | GRANT McCARTHY

FUNCTIONAL DESIGN

ROAD & DRAINAGE RECONSTRUCTION WORKS

PILMER ROAD, HEALESVILLE

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TITLE SHEET - LOCALITY PLAN, GENERAL NOTES, DETAILS & DRAWING INDEX

PROJECT No. PC20007A
SHEET No. 01 OF 07
VERSION 00
DWG No. PC20007A-01-00

Document Set ID: 7034124
Version: 1, Version Date: 29/03/2022

OVERALL PLAN

10 5 0 10 20 1:500 @ A1
1:1,000 @ A3

VER	DESCRIPTION	DATE
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OVERALL PLAN

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SHEET No. 02 OF 07
VERSION 00
DWG No. PC20007A-02-00

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Version: 1, Version Date: 29/03/2022

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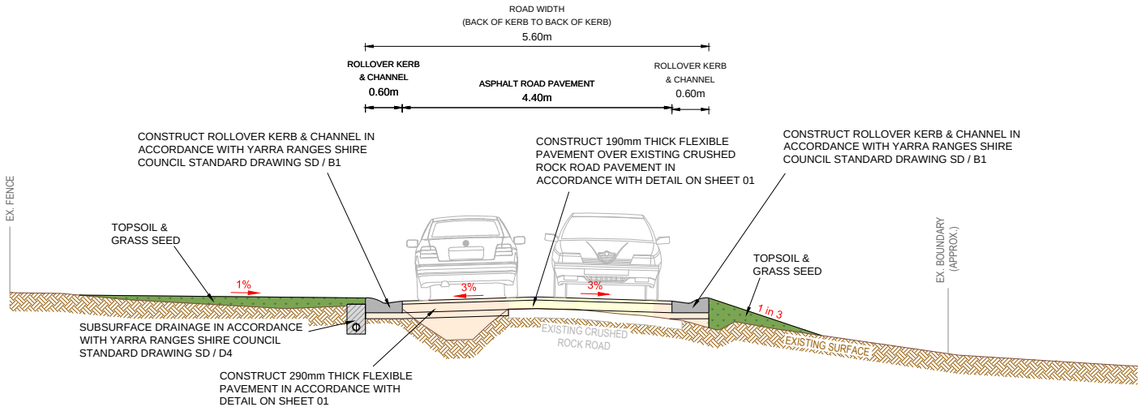

SECTION A-A

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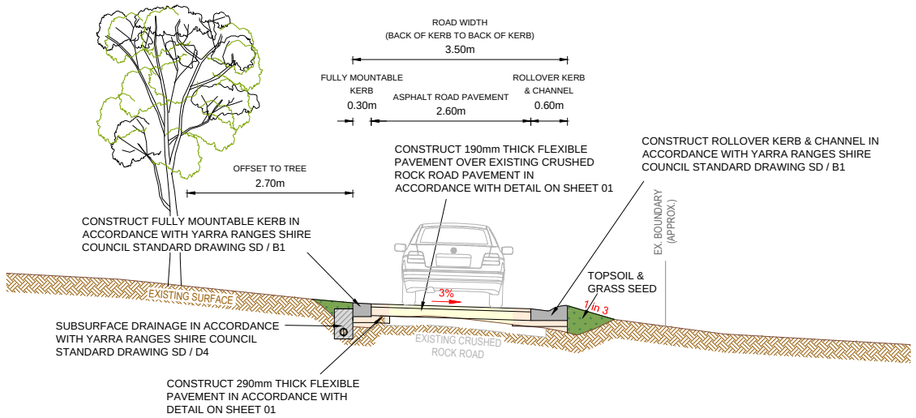

SECTION B-B

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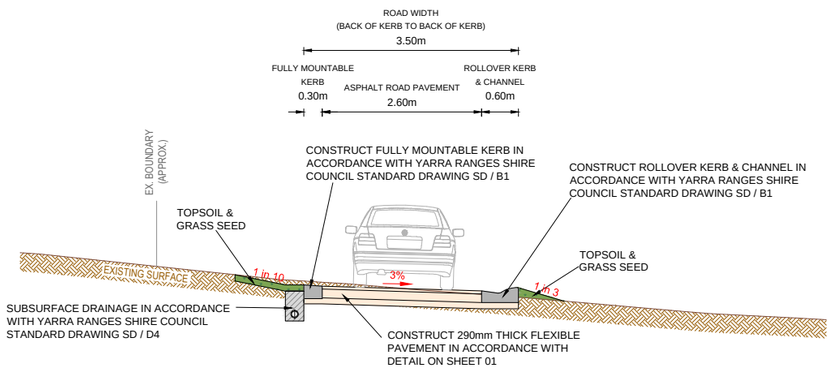

SECTION C-C

1 0.5 0 1 2 — 1:50 @ A1

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FUNCTIONAL DESIGN

ROAD & DRAINAGE RECONSTRUCTION WORKS

PILMER ROAD, HEALESVILLE

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SECTIONS A-A, B-B & C-C

PROJECT No. PC20007A
SHEET No. 03 OF 07
VERSION 00
DWG No. PC20007A-03-00

Document Set ID: 7034124
Version: 1, Version Date: 29/03/2022

LEGEND

- OVERLAY EXISTING PAVEMENT - 190mm THICK FLEXIBLE PAVEMENT IN ACCORDANCE WITH DETAIL ON SHEET 01
- FULL DEPTH PAVEMENT - 290mm THICK FLEXIBLE PAVEMENT IN ACCORDANCE WITH DETAIL ON SHEET 01
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- 150mm MINIMUM THICKNESS CONCRETE VEHICLE CROSSING GENERALLY IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / C2
- 100mm MINIMUM THICKNESS CLASS 2 CRUSHED ROCK VEHICLE CROSSING GENERALLY IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / C2
- PROPOSED PAVEMENT GRADE
- EXISTING DRAINAGE PIPE
- NEW DRAINAGE PIT WITH PIT NUMBER AND PIPE
- DIRECTION OF CHANNEL FLOW
- SD — SUBSURFACE DRAINAGE IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / D4
- SWALE INVERT
- PAVEMENT LINE MARKING
- NEW CONCRETE KERB AND CHANNEL IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / B1
- NEW CONCRETE SLEEPER RETAINING WALL GENERALLY IN ACCORDANCE WITH YARRA RANGES SHIRE COUNCIL STANDARD DRAWING SD / F5
- EX W — EXISTING WATER
- EX G — EXISTING GAS
- EX S — EXISTING SEWER
- EX T — EXISTING TELECOMMUNICATIONS
- EX E — EXISTING UNDERGROUND ELECTRICITY
- EXISTING CONTOUR MAJOR (1.0m)
- EXISTING CONTOUR MINOR (0.2m)
- FINISHED SURFACE CONTOUR MAJOR (1.0m)
- FINISHED SURFACE CONTOUR MINOR (0.2m)
- FILL BATTER EXTENT
- CUT BATTER EXTENT
- REMOVE EXISTING DRAINAGE PIPE
- TREE CONSIDERED FOR REMOVAL

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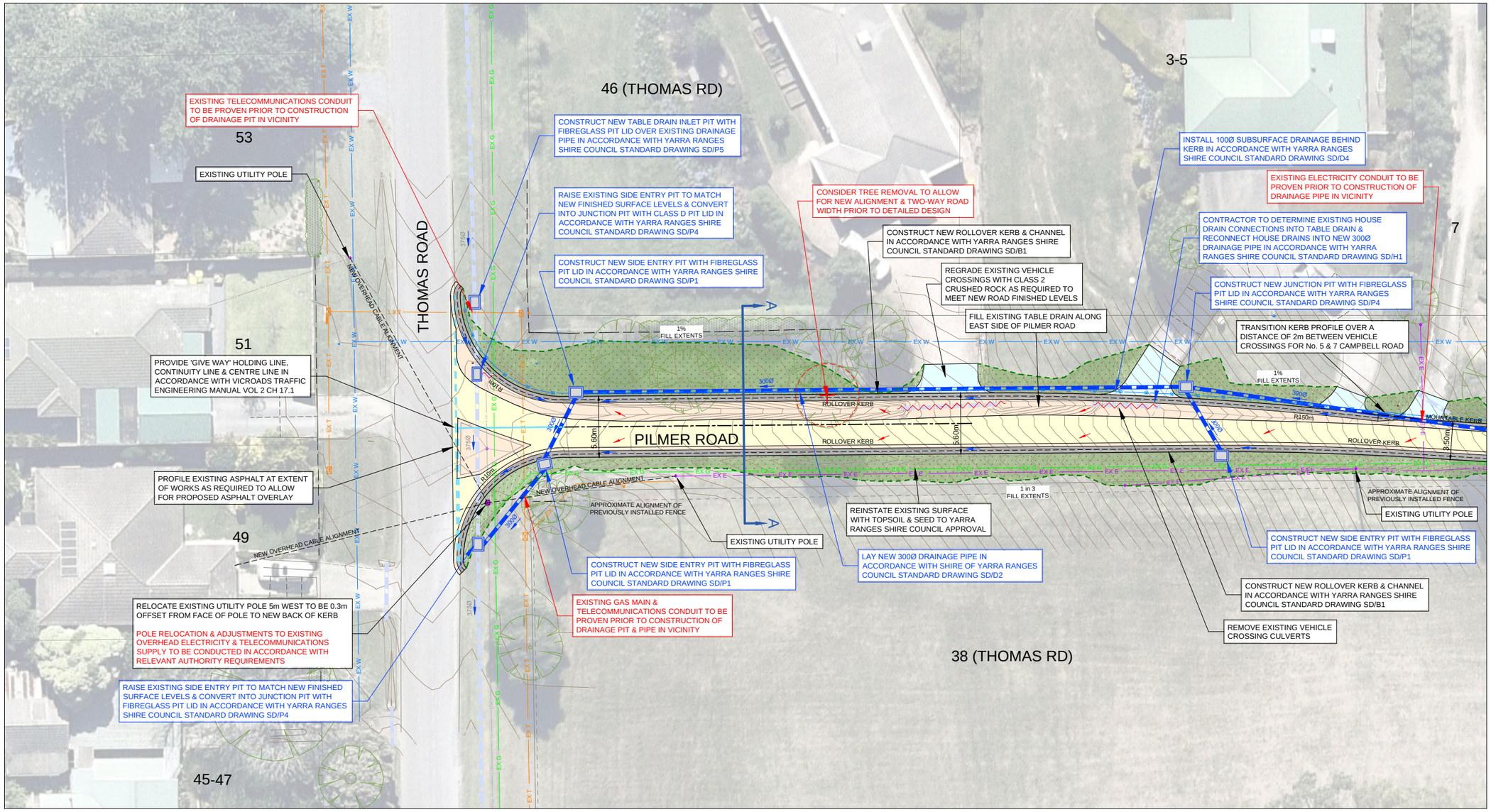

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GENERAL LAYOUT PLAN

4 2 0 4 8 1:200 @ A1 1:400 @ A3

VER	DESCRIPTION	DATE
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HEIGHT DATUM: AHD
COORDINATE DATUM: MGA 94 ZONE 55
SURVEY DATE: 22-09-2020
AERIAL IMAGE DATE: 30-11-2017

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FUNCTIONAL DESIGN

ROAD & DRAINAGE RECONSTRUCTION WORKS

PILMER ROAD, HEALESVILLE

-

GENERAL LAYOUT PLAN

PROJECT No. PC20007A
SHEET No. 04 OF 07
VERSION 00
DWG No. PC20007A-04-00

Document Set ID: 7034124
Version: 1, Version Date: 29/03/2022

LEGEND

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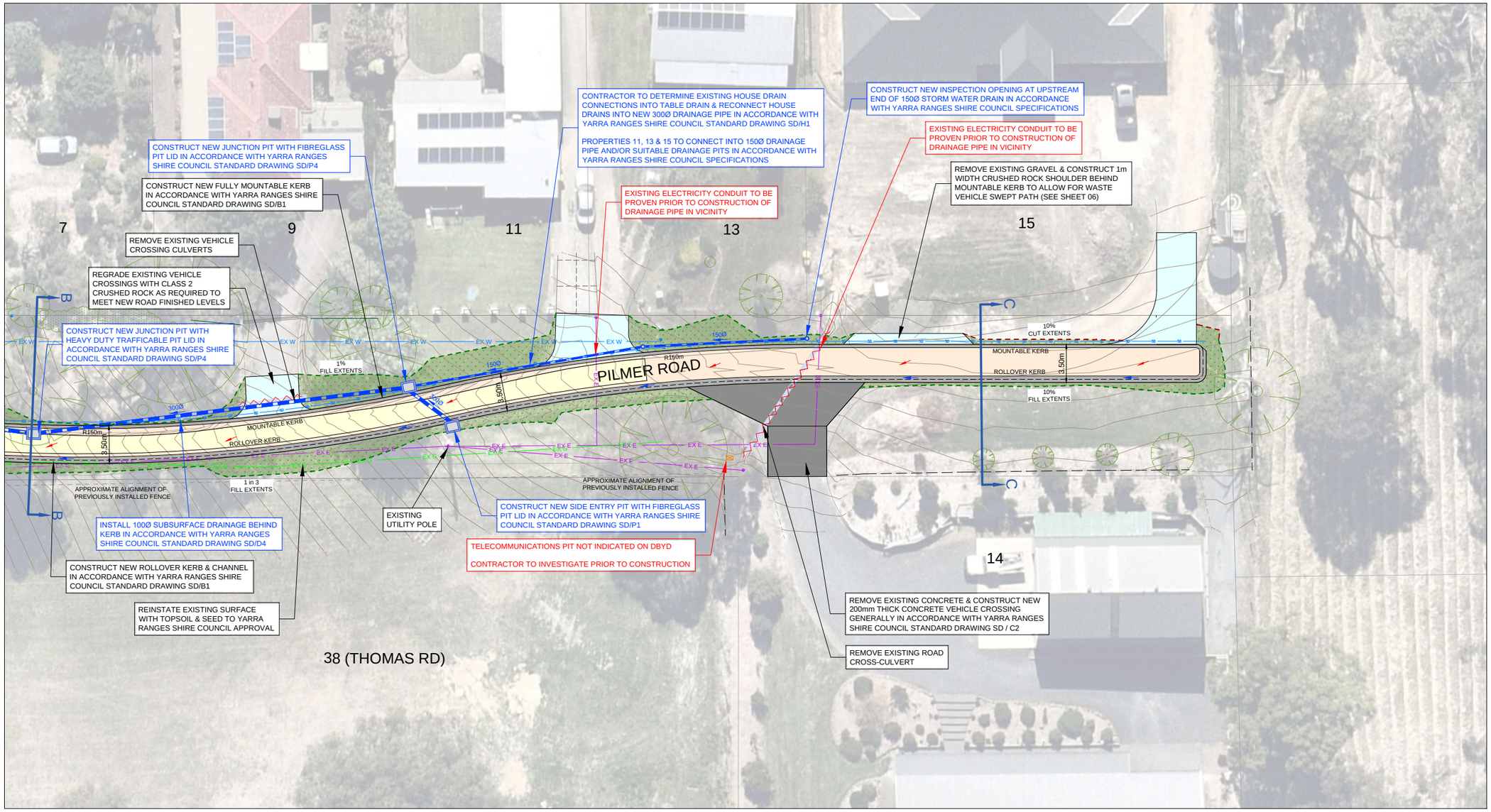
CONTINUED ON SHEET 04



GENERAL LAYOUT PLAN

4 2 0 4 8 — 1:200 @ A1, 1:400 @ A3

VER	DESCRIPTION	DATE
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FUNCTIONAL DESIGN

ROAD & DRAINAGE RECONSTRUCTION WORKS

PILMER ROAD, HEALESVILLE

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GENERAL LAYOUT PLAN

PROJECT No. PC20007AA
SHEET No. 05 OF 07
VERSION 00
DWG No. PC20007A-05-00

Document Set ID: 7034124
Version: 1, Version Date: 29/03/2022

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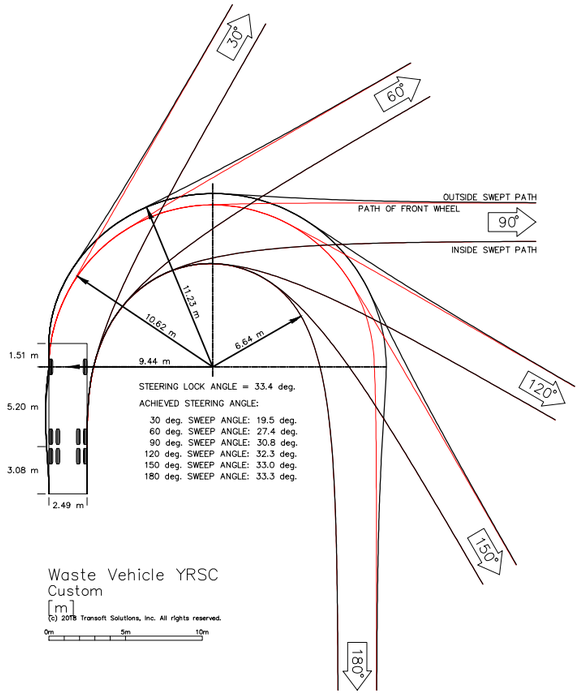

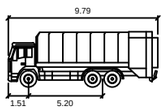

Waste Vehicle YRSC

		meters
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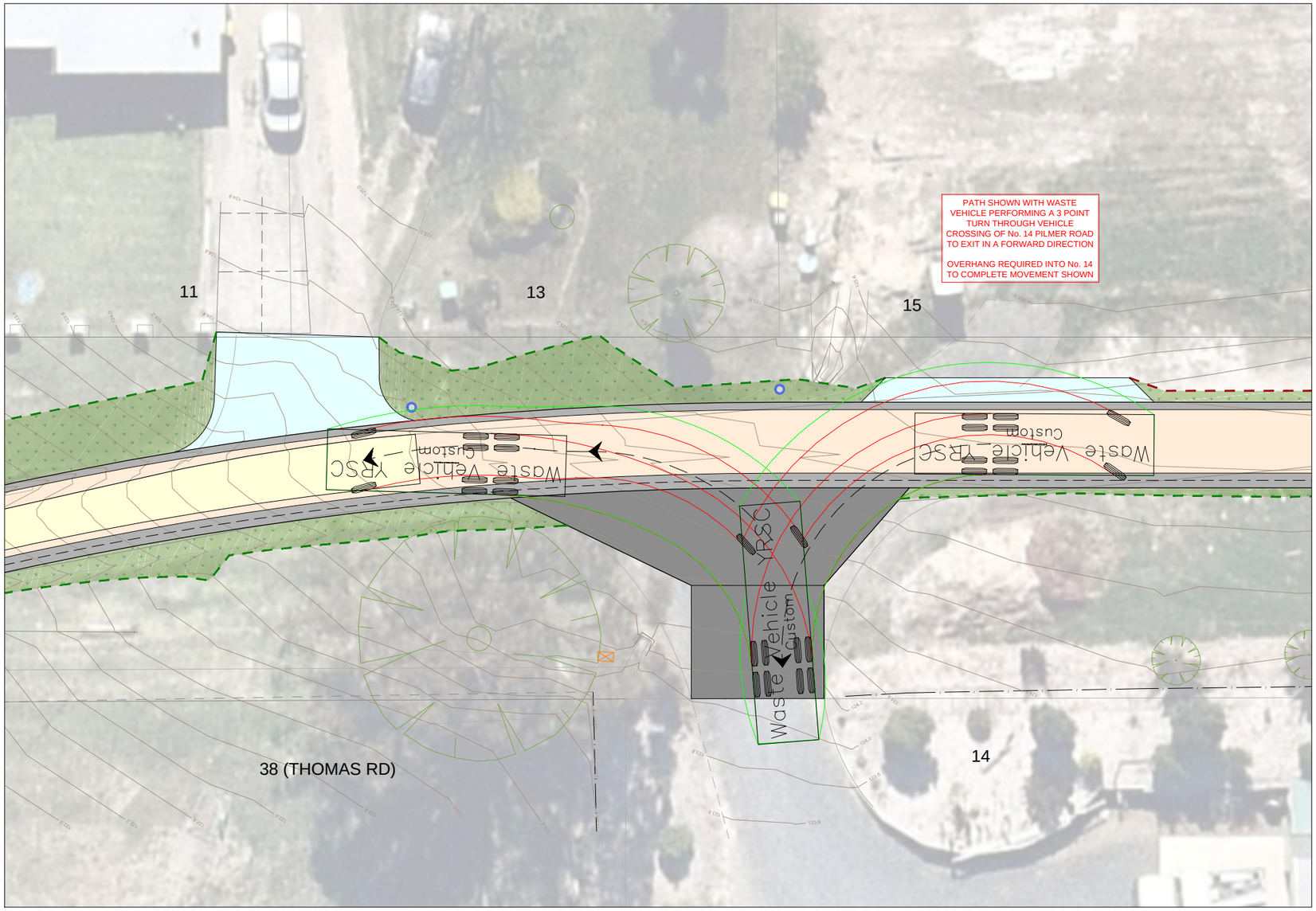
Track	:	2.50
Lock to Lock Time	:	6.0
Steering Angle	:	33.4



SWEPT PATH ANALYSIS PLAN - YRSC WASTE VEHICLE

2 1 0 2 4 1:100 @ A1
1:200 @ A3

VER	DESCRIPTION	DATE
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PILMER ROAD, HEALESVILLE
-
SWEPT PATH ANALYSIS PLAN - YRSC WASTE VEHICLE

PROJECT No. PC20007A
SHEET No. 06 OF 07
VERSION 00
DWG No. PC20007A-06-00

Document Set ID: 7034124
Version: 1, Version Date: 29/03/2022

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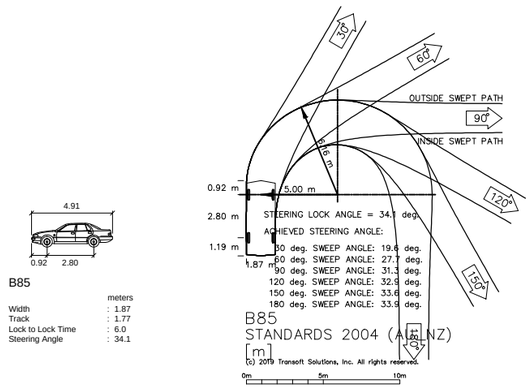
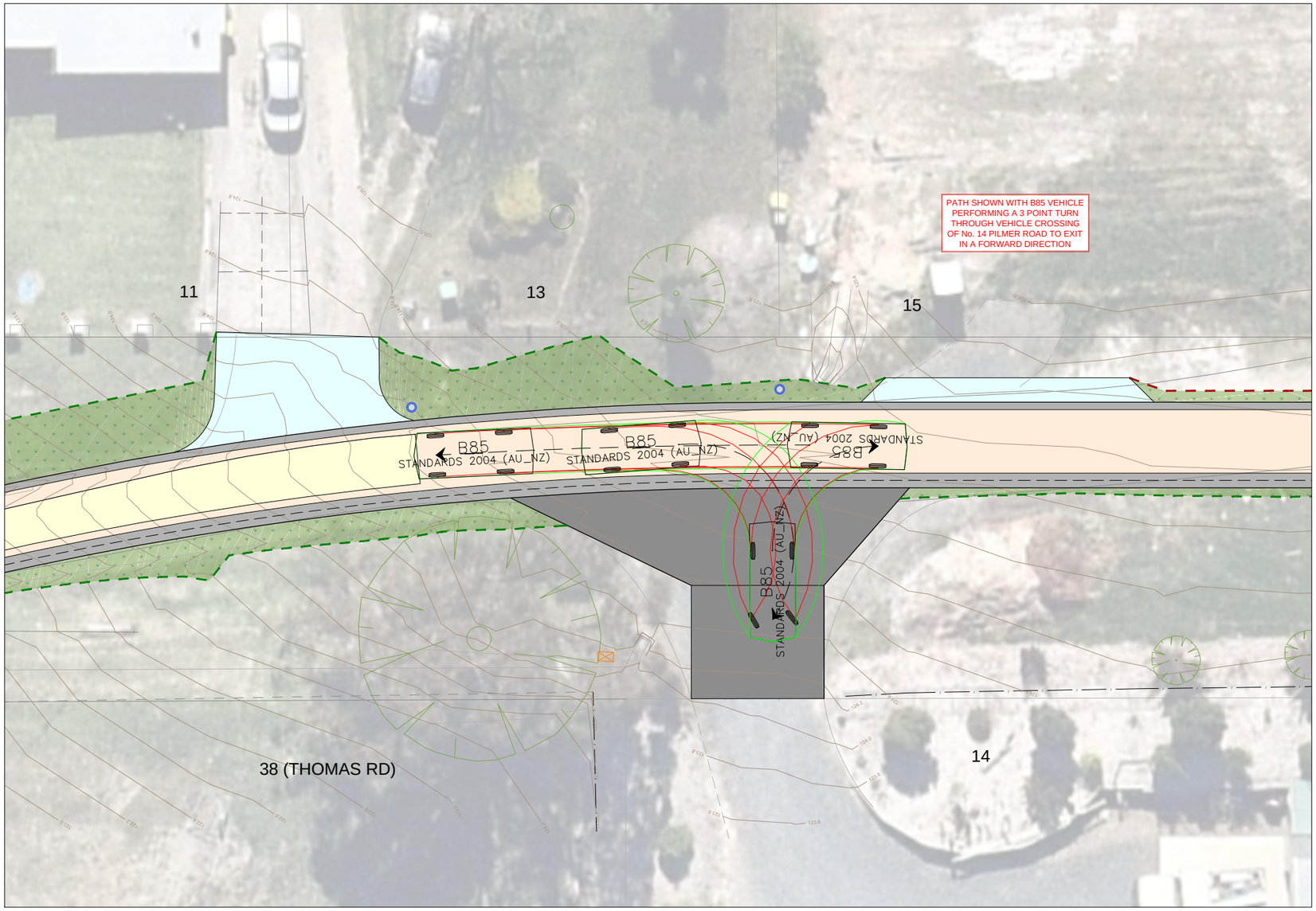
The Essential First Step

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.





SWEPT PATH ANALYSIS PLAN - B85 VEHICLE

2 1 0 2 4
1:100 @ A1
1:200 @ A3

VER	DESCRIPTION	DATE
00	FUNCTIONAL DESIGN - FOR REVIEW	29-04-2021

CONSULTANT ENGINEER
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www.procivil.com.au

CIVIL ENGINEERING DESIGN: LUKE WHITFIELD
TECHNICAL PEER REVIEW: CHRIS PROCTOR
REGISTERED & CHARTERED PROFESSIONAL ENGINEER: CHRIS PROCTOR

ORIENTATION: OR AS SHOWN

ORIGINAL SCALE & SHEET SIZE: AS SHOWN @ A1
HEIGHT DATUM: AHD
COORDINATE DATUM: MGA 94 ZONE 55
SURVEY DATE: 22-09-2020
AERIAL IMAGE DATE: 30-11-2017

LOCAL GOVERNMENT AREA: SHIRE OF YARRA RANGES
CLIENT: Yarra Ranges Council
CLIENT PROJECT MANAGER / CONTACT: JONATHAN PRAVIN | GRANT McCARTHY

FUNCTIONAL DESIGN

ROAD & DRAINAGE RECONSTRUCTION WORKS

PILMER ROAD, HEALESVILLE

-

SWEPT PATH ANALYSIS PLAN - B85 VEHICLE

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