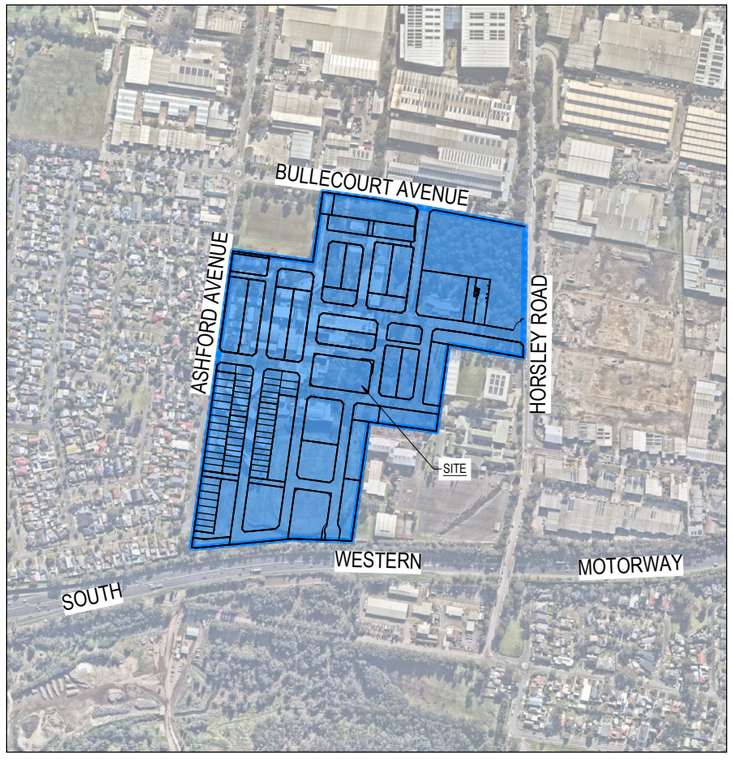
# WSU MILPERRA PROPOSED SUBDIVISON

## CIVIL ENGINEERING PLANS ISSUED FOR DEVELOPMENT APPLICATION

## 2A BULLECOURT AVENUE, MILPERRA (LOT 1 IN DP101147 AND LOT 2 IN DP1291984)

## CANTERBURY-BANKSTOWN COUNCIL

## MIRVAC RESIDENTIAL (NSW) DEVELOPMENTS PTY LTD




SITE PLAN

NOT TO SCALE

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | FINAL ISSUE FOR SSDA | 29.10.25 | GN | SG |
| B | CARPARK & SIGNAGE AMENDMENTS | 23.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| PS Number | - |

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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | COVER SHEET |

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|---|---|---|---|
| Sheet | 1 of 145 | | |
| Scale | AS SHOWN | | |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 001 | C |

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LEGEND - FUNCTIONAL LAYOUT PLAN

- PROPOSED SUPER LOTS
- PROPOSED HOUSING LOTS
- DENOTES COMMUNITY TITLE SCHEME LOTS
- ROADS DEDICATED TO COUNCIL
- DENOTES PUBLIC OPEN SPACE OR DRAINAGE RESERVE TO BE CONSTRUCTED AND DEDICATED TO COUNCIL UNDER THIS STAGE

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

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|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 29.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

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SCALE 1:1250 AT A1 SIZE

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: GENERAL ARRANGEMENT & STAGING PLAN

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Scale 1:1250 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 002 | B |

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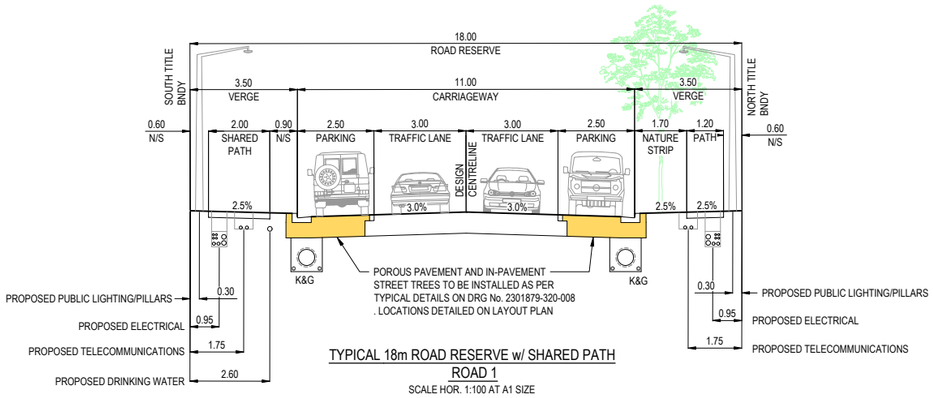


TYPICAL 18m ROAD RESERVE w/ SHARED PATH
ROAD 1
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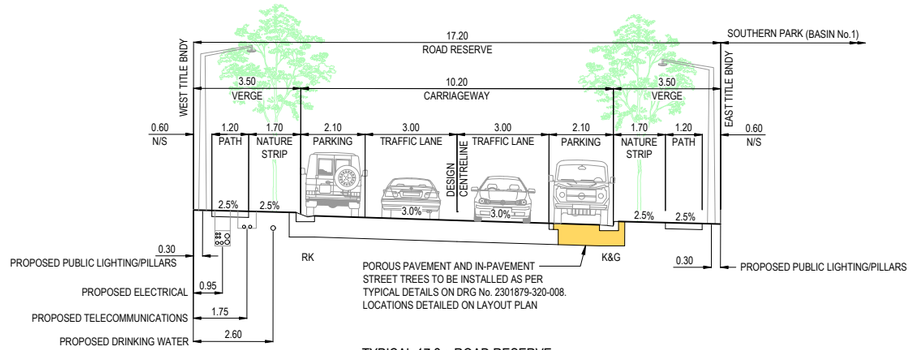


TYPICAL 17.2m ROAD RESERVE
ROAD 2A (CH366.58 - CH470.29)
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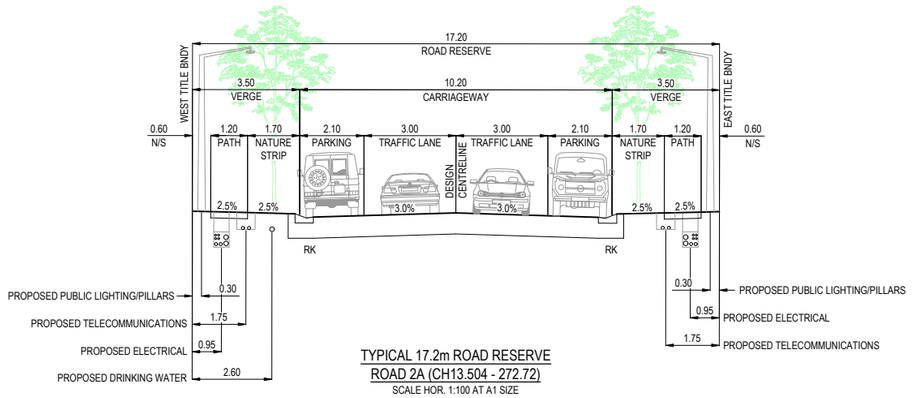


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ROAD 2A (CH13.504 - 272.72)
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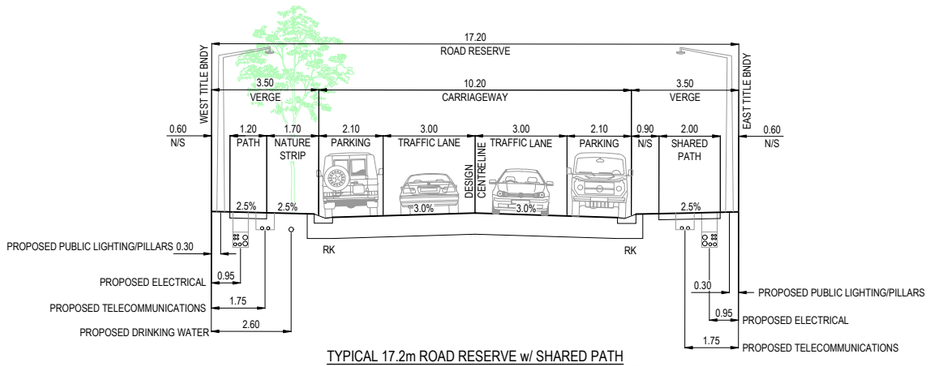


TYPICAL 17.2m ROAD RESERVE w/ SHARED PATH
ROAD 2A (CH470.29 - CH579.182 & CH675.59 - CH716.59)
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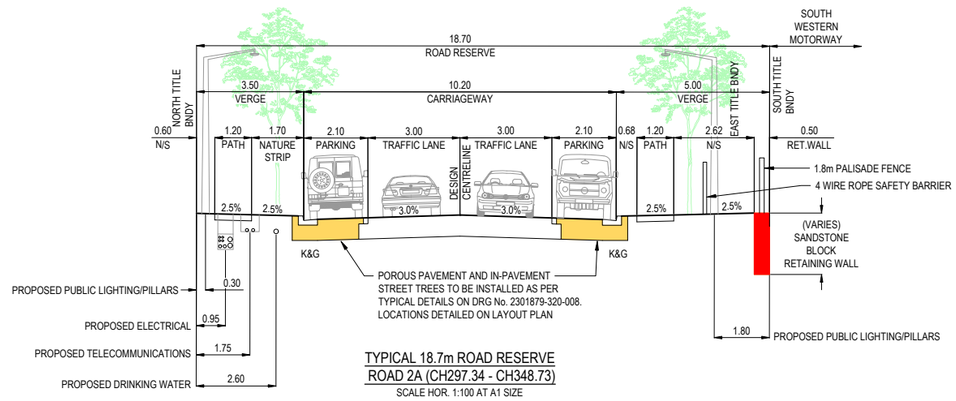


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ROAD 2A (CH297.34 - CH348.73)
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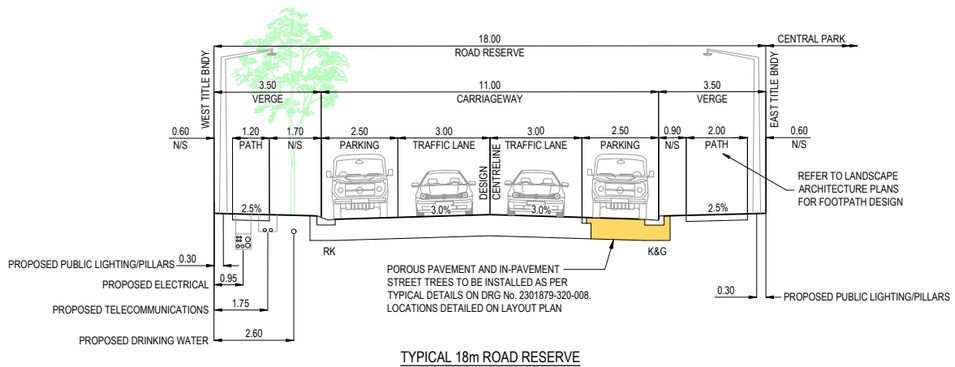


TYPICAL 18m ROAD RESERVE
ROAD 2A (CH610.32 - CH644.58)
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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
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| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| PS Number | - |

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TYPICAL ROAD CROSS SECTIONS
SHEET 1 OF 4

Sheet 3 of 145
Scale 1:100 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 003 | B |

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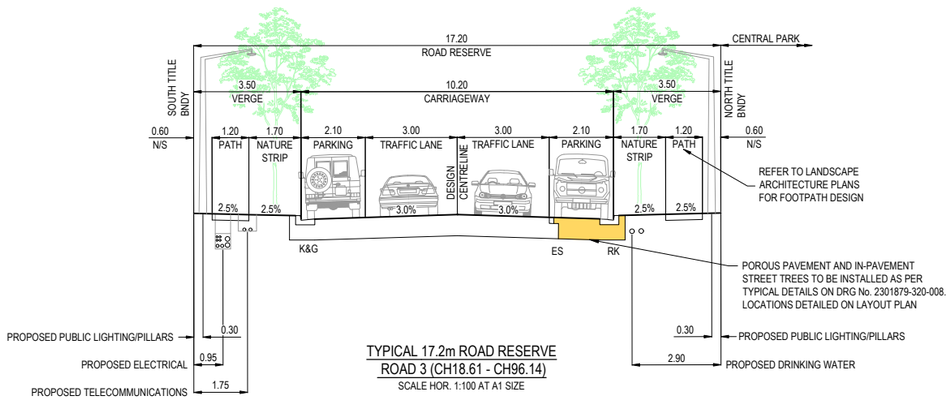


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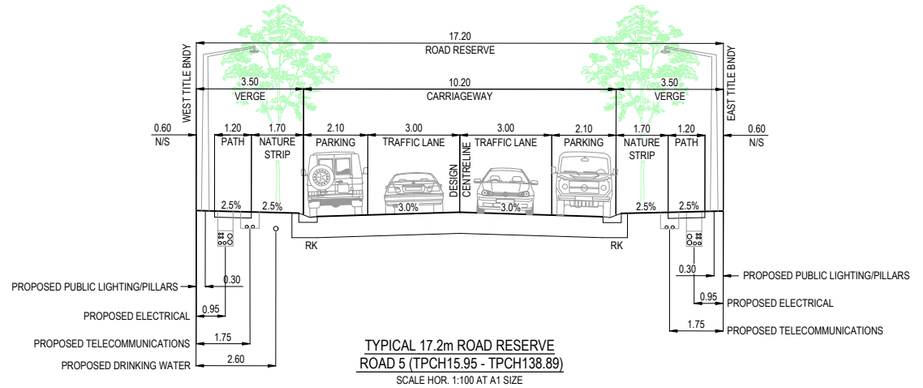


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ROAD 5 (TPCH15.95 - TPCH138.89)
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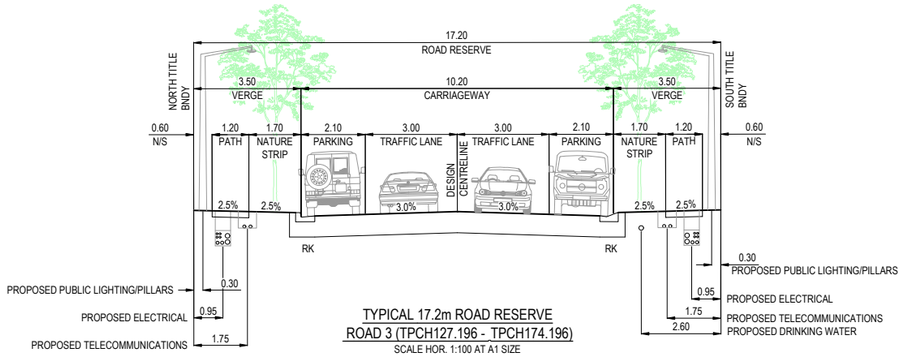


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ROAD 3 (TPCH127.196 - TPCH174.196)
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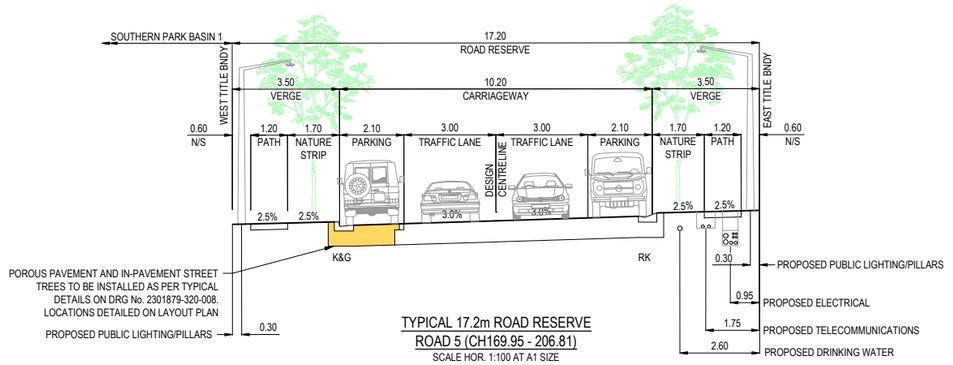


TYPICAL 17.2m ROAD RESERVE
ROAD 5 (CH169.95 - 206.81)
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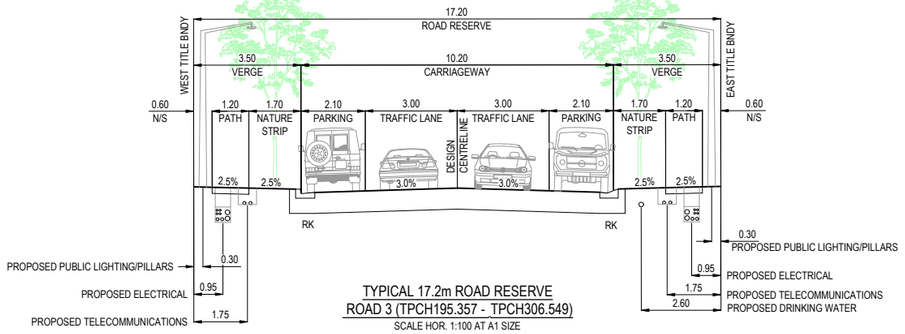
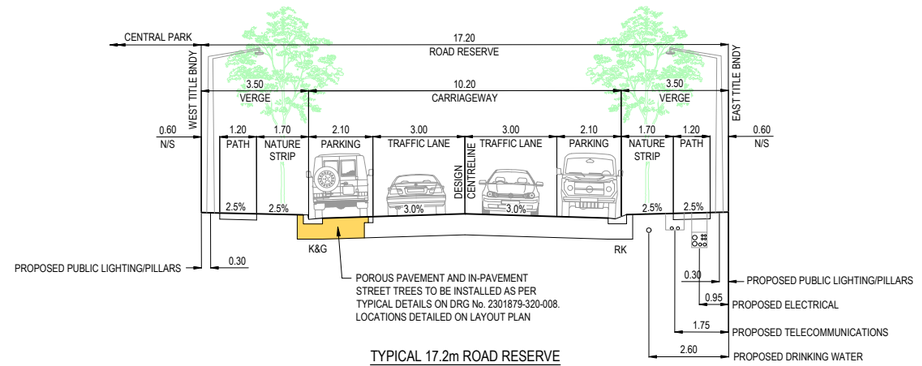
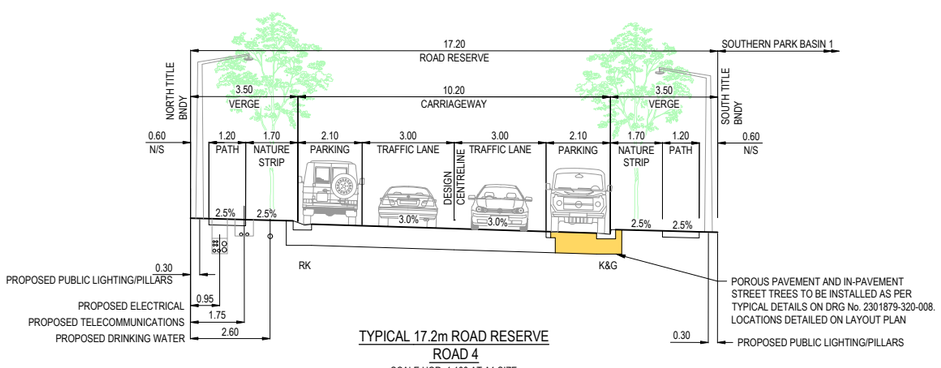


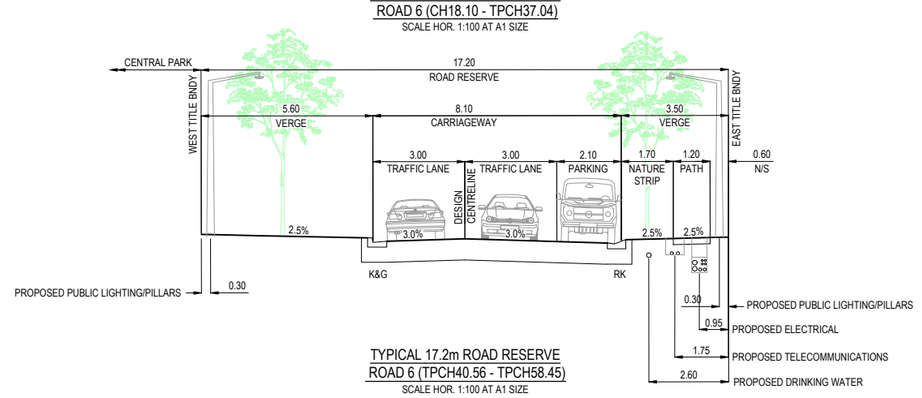

TYPICAL 17.2m ROAD RESERVE
ROAD 3 (TPCH195.357 - TPCH306.549)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE
ROAD 6 (CH18.10 - TPCH37.04)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE
ROAD 4
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE
ROAD 6 (TPCH40.56 - TPCH58.45)
SCALE HOR. 1:100 AT A1 SIZE

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

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SCALE 1:100 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| PS Number | PS |

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TYPICAL ROAD CROSS SECTIONS
SHEET 2 OF 4

Sheet 4 of145
Scale 1:100 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 004 | B |

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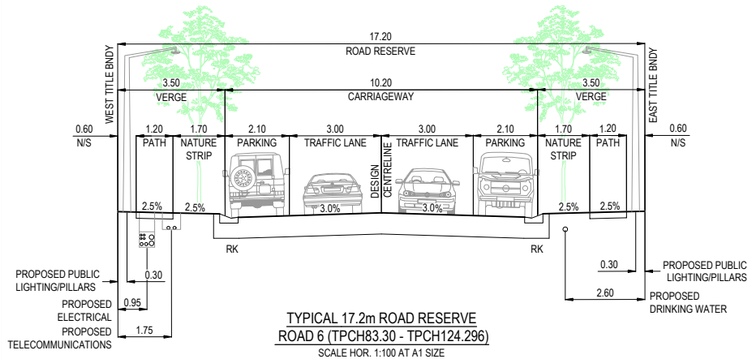
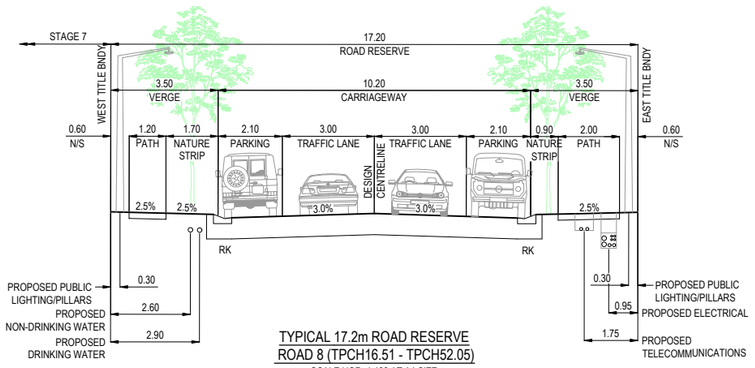
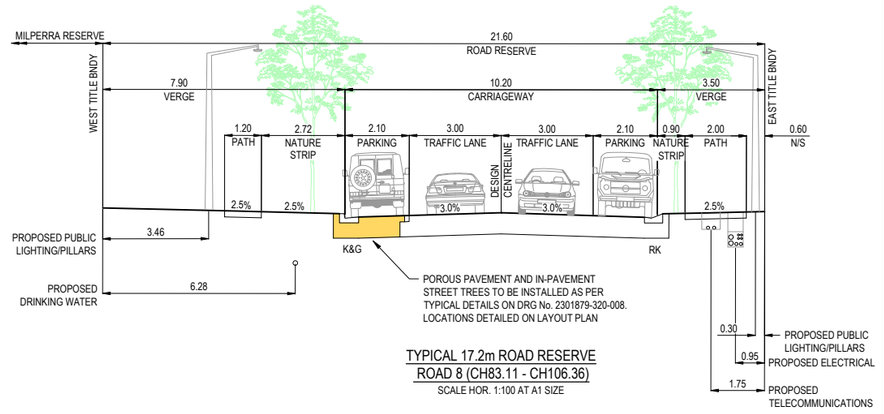


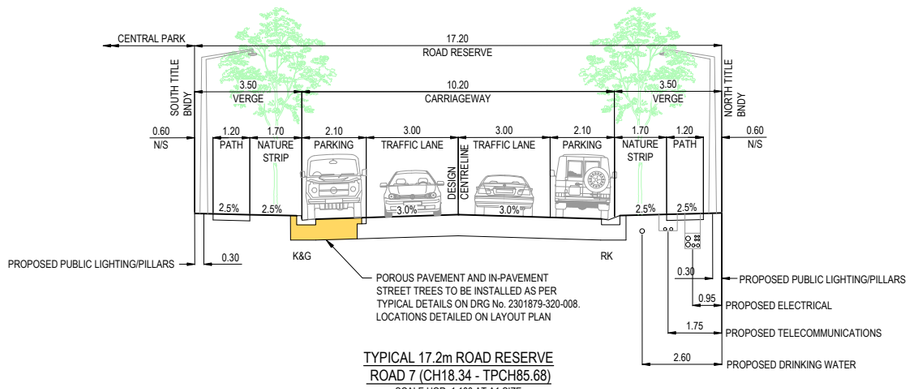

TYPICAL 17.2m ROAD RESERVE
ROAD 6 (TPCH83.30 - TPCH124.296)
SCALE HOR. 1:100 AT A1 SIZE



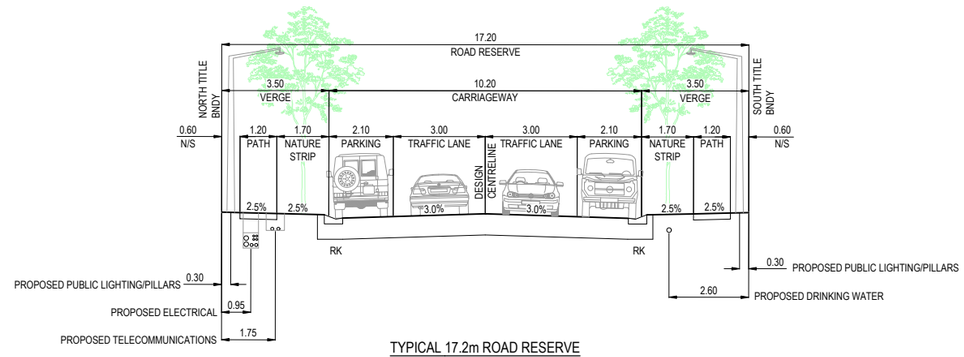

TYPICAL 17.2m ROAD RESERVE
ROAD 8 (TPCH16.51 - TPCH52.05)
SCALE HOR. 1:100 AT A1 SIZE



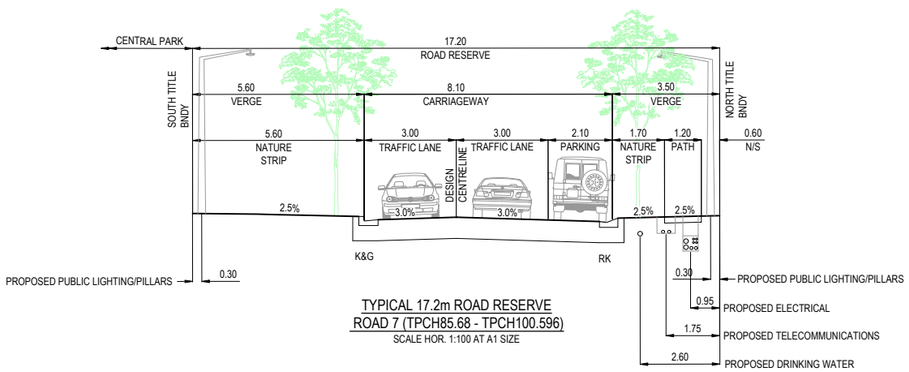

TYPICAL 17.2m ROAD RESERVE
ROAD 8 (CH83.11 - CH106.36)
SCALE HOR. 1:100 AT A1 SIZE



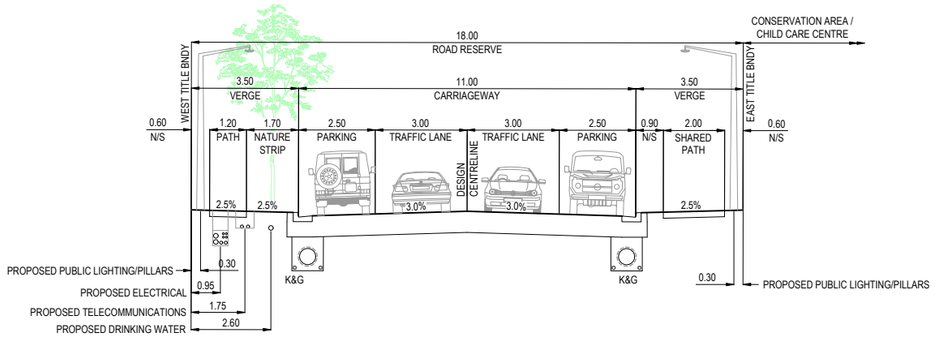

TYPICAL 17.2m ROAD RESERVE
ROAD 7 (CH18.34 - TPCH85.68)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE
ROAD 8 (CH128.67 - CH176.48 &
CH197.64 - CH288.64)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE
ROAD 7 (TPCH85.68 - TPCH100.596)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 18m ROAD RESERVE w/ SHARED PATH
ROAD 9 (CH13.50 - CH123.44)
SCALE HOR. 1:100 AT A1 SIZE

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0 1 2 4 6 8
SCALE 1:100 AT A1 SIZE

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| Date | 23.06.2025 |
| Drawn | G.N. |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TYPICAL ROAD CROSS SECTIONS
SHEET 3 OF 4

Sheet 5 of145
Scale 1:100 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 005 | B |

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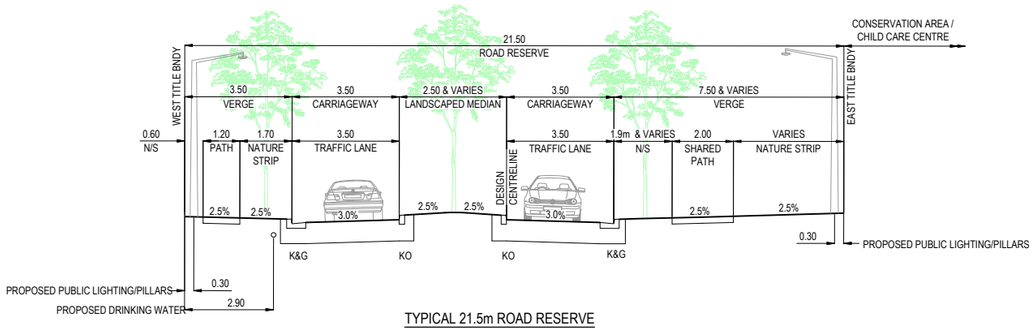
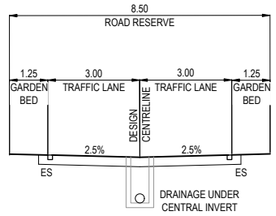
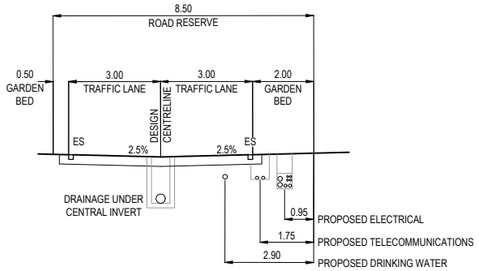


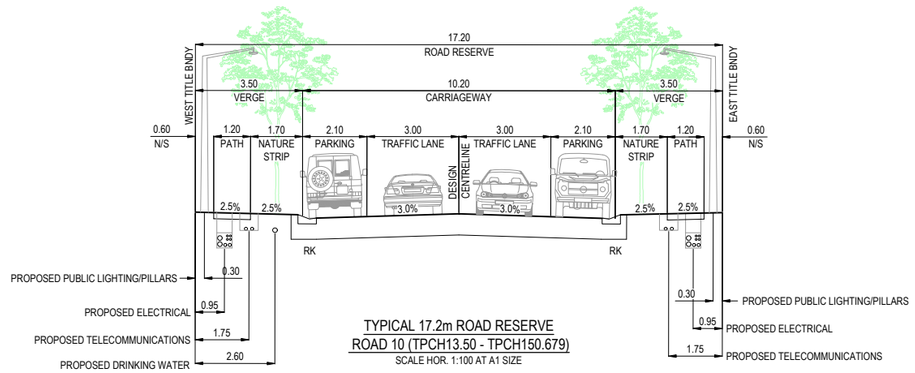

TYPICAL 21.5m ROAD RESERVE
ROAD 9 (CH123.44 & CH178.88)
SCALE HOR. 1:100 AT A1 SIZE



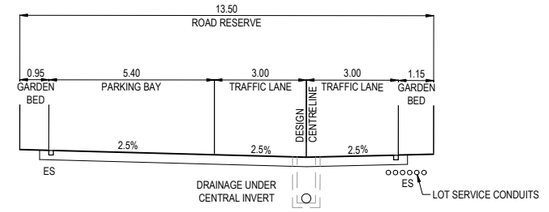

TYPICAL 8.5m ROAD RESERVE
LANE 1 & 3
SCALE HOR. 1:100 AT A1 SIZE



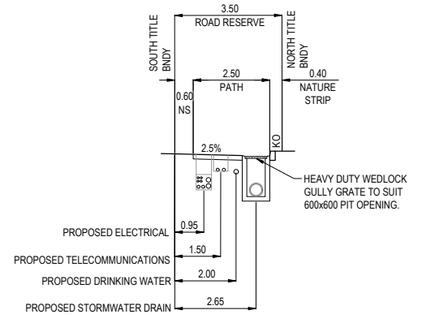

TYPICAL 8.5m ROAD RESERVE
LANE 5
SCALE HOR. 1:100 AT A1 SIZE



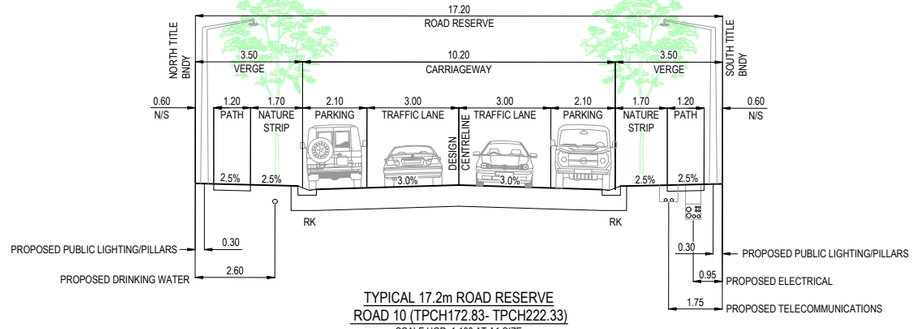

TYPICAL 17.2m ROAD RESERVE
ROAD 10 (TPCH13.50 - TPCH150.679)
SCALE HOR. 1:100 AT A1 SIZE



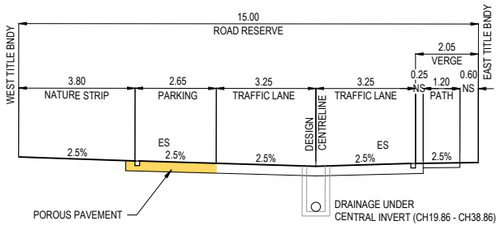

TYPICAL 13.5m ROAD RESERVE
LANE 2
SCALE HOR. 1:100 AT A1 SIZE



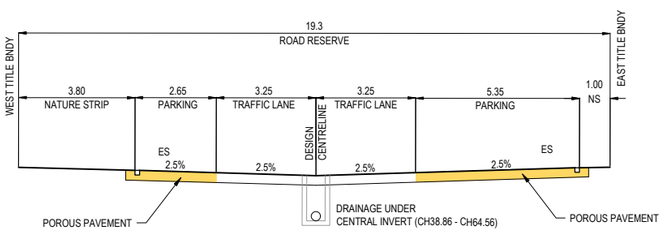

TYPICAL 3.5m
WALK 1
SCALE HOR. 1:100 AT A1 SIZE



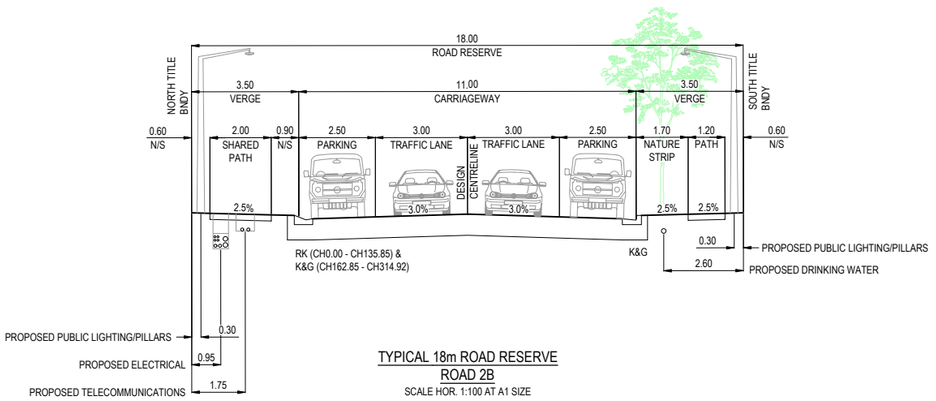

TYPICAL 17.2m ROAD RESERVE
ROAD 10 (TPCH172.83- TPCH222.33)
SCALE HOR. 1:100 AT A1 SIZE



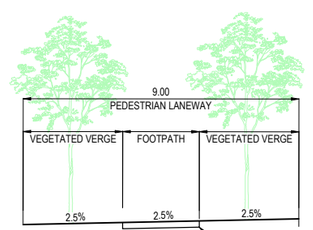

TYPICAL 15m ROAD RESERVE
LANE 4 (CH16.44 - CH38.86)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 19.3m ROAD RESERVE
LANE 4 (CH38.86 - CH72.858)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 18m ROAD RESERVE
ROAD 2B
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 9.0m PEDESTRIAN LINK
SCALE HOR. 1:100 AT A1 SIZE

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SCALE 1:100 AT A1 SIZE

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| Date | 23.06.2025 |
| Drawn | G.N. |
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| Reg. No. | PE0008347 |
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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TYPICAL ROAD CROSS SECTIONS SHEET 4 OF 4 |

| Sheet | 6 of145 | | |
|---|---|---|---|
| Scale | 1:100 @ A1 | | |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 006 | B |

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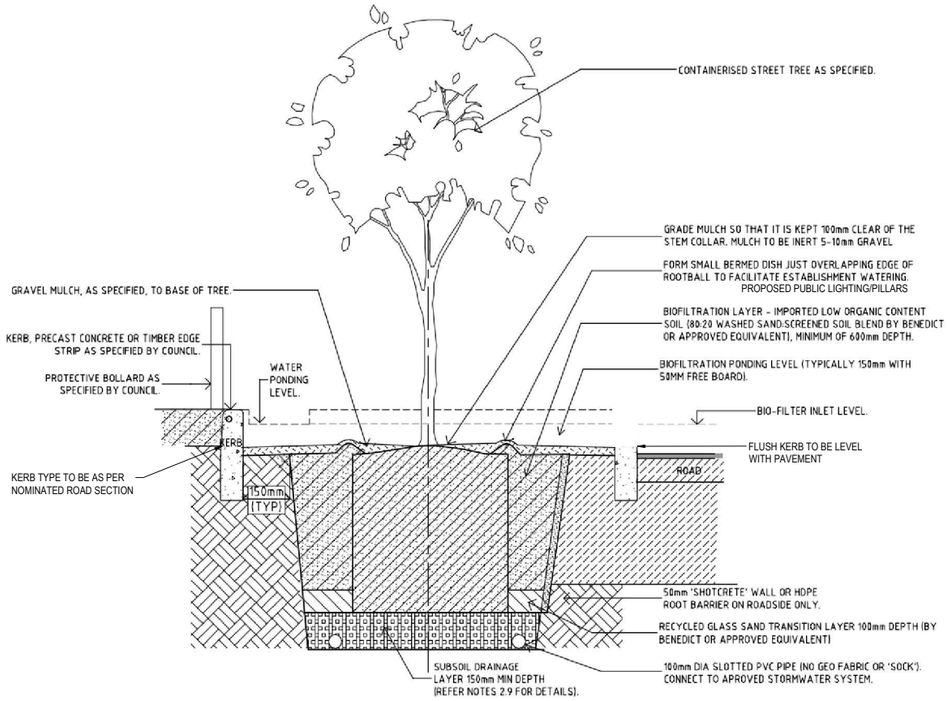
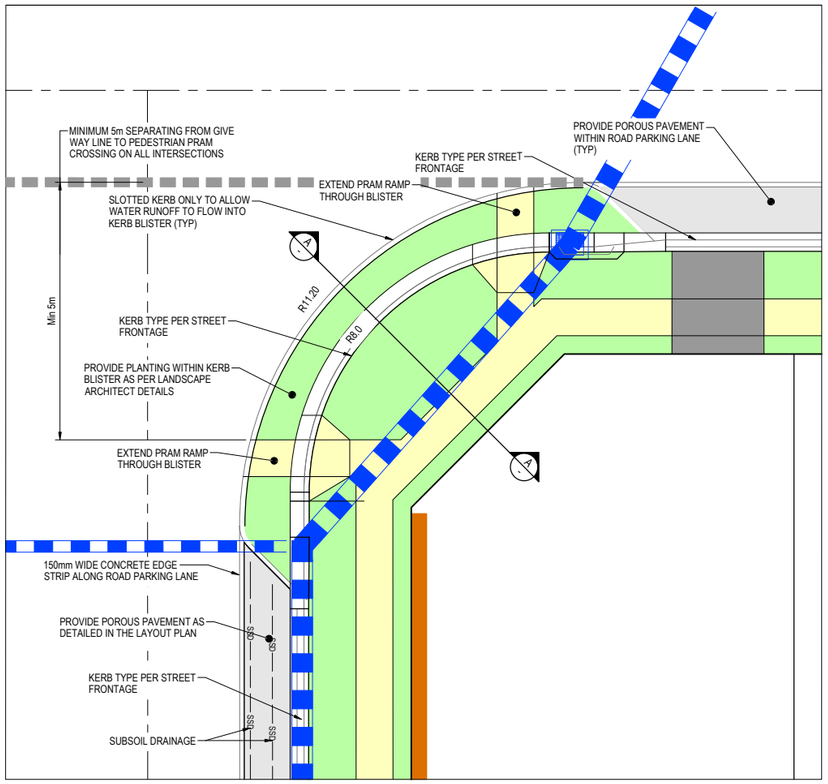



SECTION SCALE: NTS

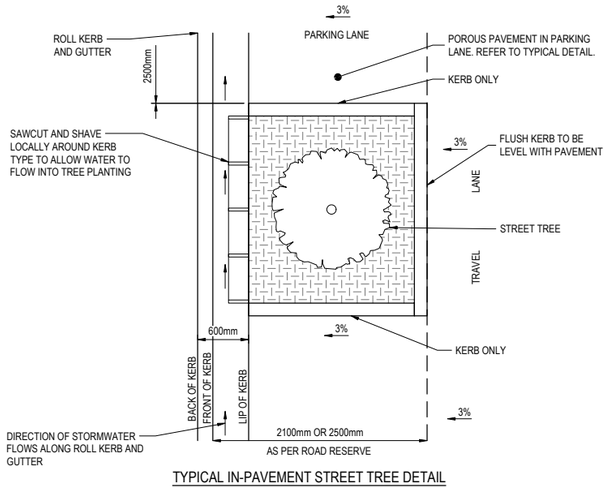
HOLD POINTS:

1. COUNCIL TO INSPECT AT COMPLETION OF CONCRETE KERB TO ALLOW CONFIRMATION OF CORRECT LEVELS/DEPTH.
2. COUNCIL TO INSPECT AT COMPLETION OF ALL LAYERS-DRAINAGE, TRANSITION OF BIOFILTER & DEPTH OF GRAVEL MULCH
3. COUNCIL TO INSPECT THE POSITIONING & COVERING OF SUB-SOIL DRAINAGE

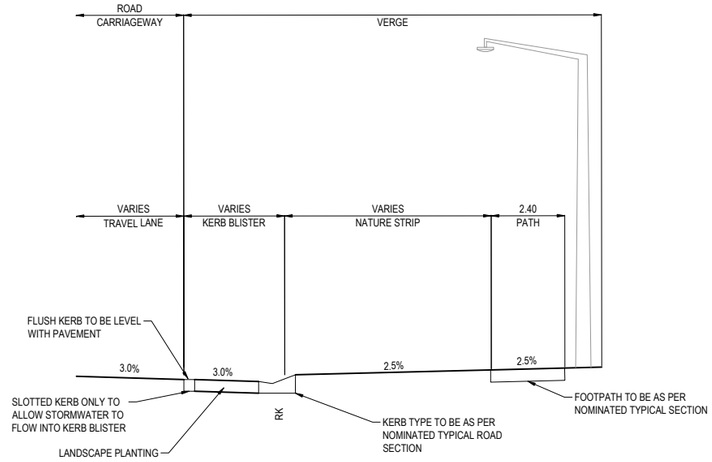
TYPICAL IN-PAVEMENT STREET TREE DETAIL
N.T.S




TYPICAL KERB BLISTER PLAN AND DETAILS
N.T.S




TYPICAL IN-PAVEMENT STREET TREE DETAIL
N.T.S




SECTION A: KERB BLISTER AT INTERSECTION
N.T.S

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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TYPICAL DETAILS<br>SHEET 1 OF 2 |

| Sheet | 7 of145 | | |
|---|---|---|---|
| Scale | AS SHOWN | | |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 007 | B |

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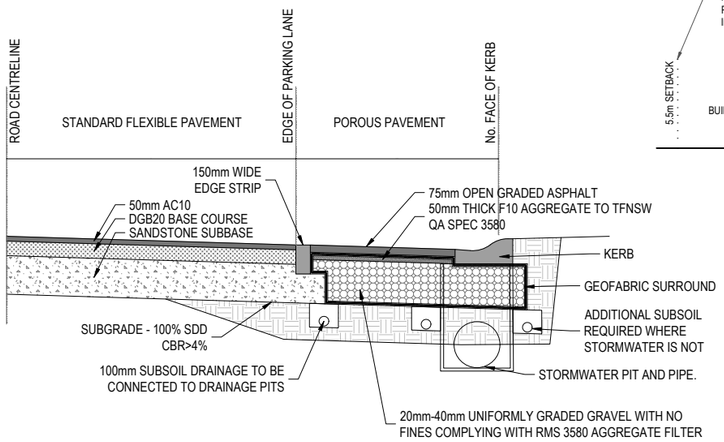
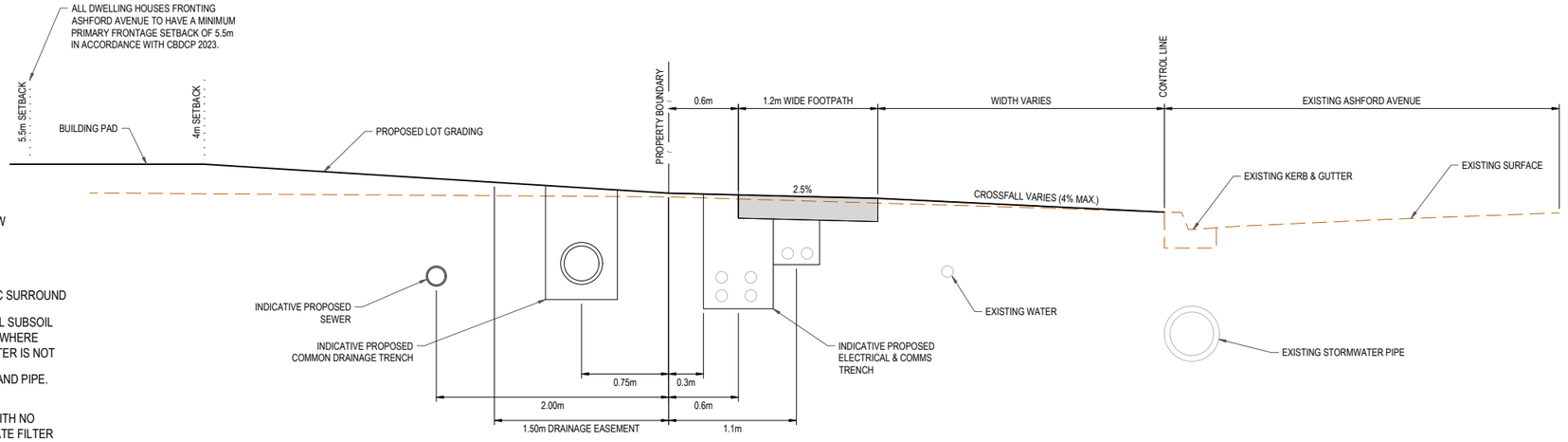
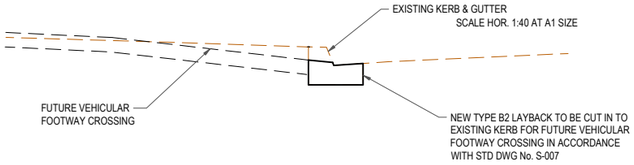



TYPICAL POROUS PAVEMENT DETAIL IN PARKING LANE
N.T.S




ASHFORD AVENUE TYPICAL CROSS SECTION




LAYBACK FOR VEHICULAR CROSSING TYPICAL SECTION
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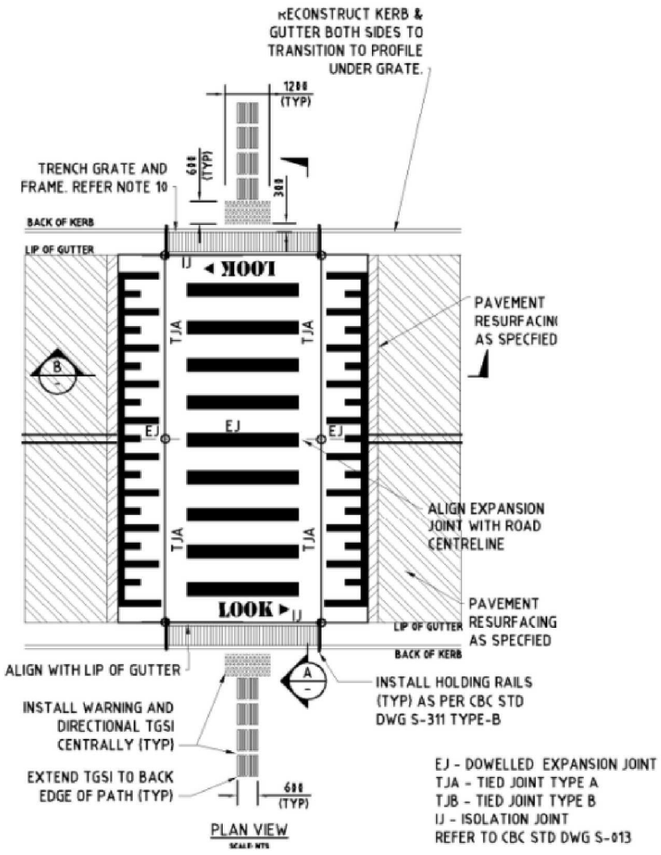
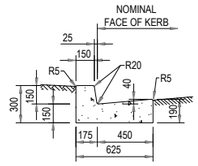
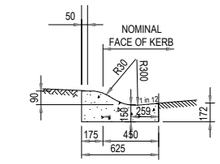



FOR DETAILS REFER TO CITY OF CANTERBURY BANKSTOWN STANDARD DWG No. S-306

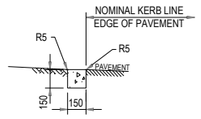
STANDARD RAISED PEDESTRIAN THRESHOLD WITH GRATED GUTTER BRIDGE: TYPE 1
N.T.S




TYPICAL KERB & GUTTER (K&G)
N.T.S




TYPICAL ROLL KERB AND GUTTER (RK)
N.T.S




150mm EDGE STRIP

TYPICAL 150mm EDGE STRIP (ES)
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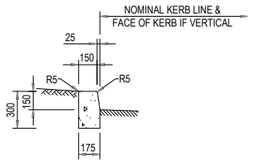
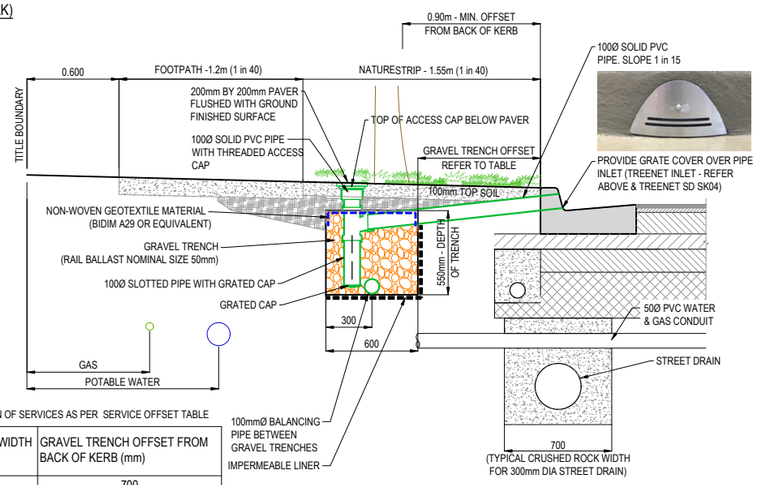



KERB ONLY

TYPICAL KERB ONLY (KO)
N.T.S




NOTE: LOCATION OF SERVICES AS PER SERVICE OFFSET TABLE

| NATURESTRIP WIDTH (m) | GRAVEL TRENCH OFFSET FROM BACK OF KERB (mm) |
|---|---|
| ≤ 2.50 | 700 |
| 2.80 | 800 |

ACCESS STREET LEVEL 1
SECTION A-A

## PASSIVE IN-VERGE STREET TREE IRRIGATION GRAVEL TRENCH (KERB INLET DIVERSION)

NOT TO SCALE

NOTES:

1. AT HIGHLY CONSTRAINED SITES, GRAVEL TRENCHES CAN BE MODIFIED IN THE FOLLOWING WAYS:
   - REDUCED OFFSET OF 0.75m FROM TREE CENTRELINE
   - DIMENSION 1.0m LONG x 0.6m WIDE x 0.75m DEEP
   - NATURESTRIP ≤ 2.5m DIMENSION CAN BE 1.5m LONG x 0.4m WIDE x 0.75m DEEP
2. PASSIVE IRRIGATION PLANS TO BE READ IN CONJUNCTION WITH LANDSCAPE PLANS.

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| Date | 23.06.2025 |
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| Checked | S. FERGUSON |
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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TYPICAL DETAILS SHEET 2 OF 2 |

| Sheet | 8 of145 | | |
|---|---|---|---|
| Scale | AS SHOWN | | |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 008 | B |

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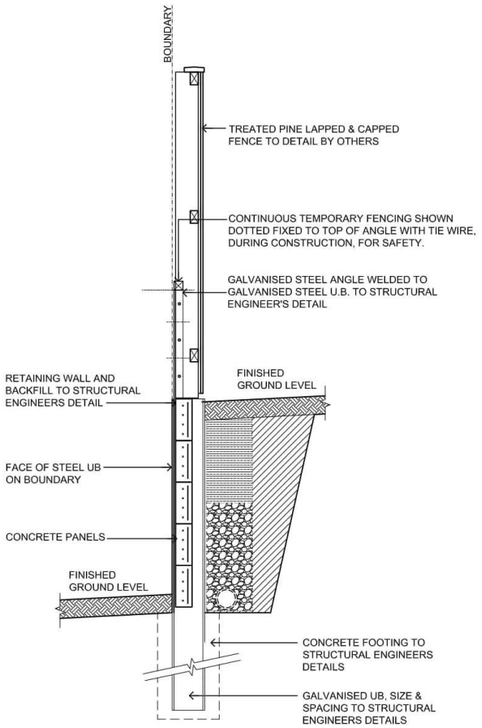
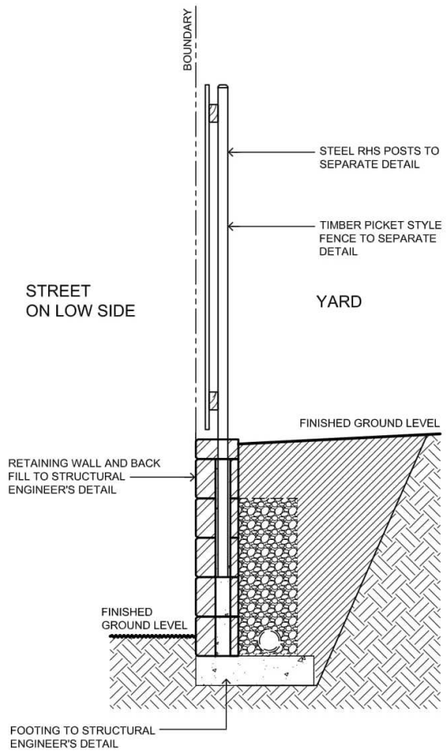
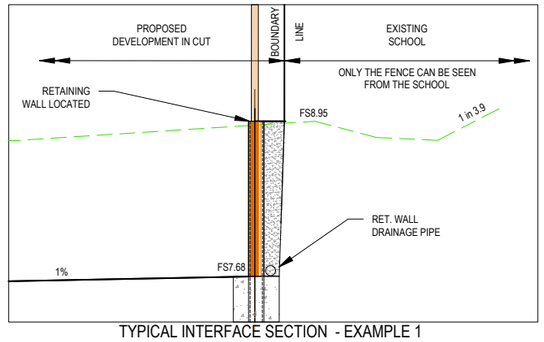


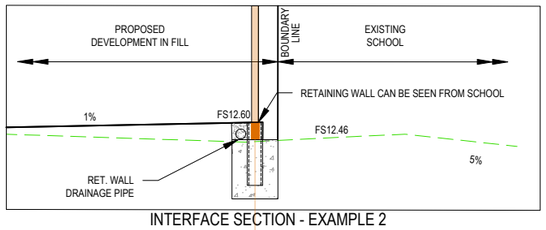

5.1 (a) RETAINING WALL STANDARD DETAIL:
POST AND CONCRETE SLEEPER WALL




5.1 (c) RETAINING WALL STANDARD DETAIL:
MASONRY BLOCK - STREET LOW SIDE



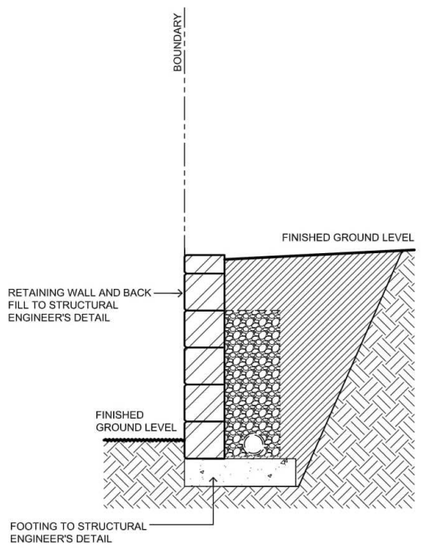

TYPICAL INTERFACE SECTION - EXAMPLE 1




INTERFACE SECTION - EXAMPLE 2

**EXAMPLE 1:** LAPPED AND CAPPED FENCE ON TOP OF POST AND SLEEPER MASONRY RETAINING WALL - VIEW FROM THE SCHOOL WHEN THE SITE IS IN CUT

**EXAMPLE 2:** LAPPED AND CAPPED FENCE ON TOP OF A POST AND SLEEPER MASONRY RETAINING WALL - VIEW FROM THE SCHOOL WHEN THE SITE IS IN FILL




5.1 (c) RETAINING WALL STANDARD DETAIL:
MASONRY BLOCK NO FENCE

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: RETAINING WALL DETAILS

Sheet 9 of145

Scale: AS SHOWN

| Project Ref | Stage No | Drawing No | Rev |
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| 2301879 | 321 | 009 | B |

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LEGEND - DEMOLITION PLAN PLAN

- EXISTING TREE TO BE REMOVED
- EXISTING TREE
- EXISTING TREE TO BE REMOVED DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS. REFER TO ARBORIST REPORT
- EXISTING TREE TO BE REMOVED UNDER CHAPTER 2.3 OF THE CANTERBURY-BANKSTOWN DCP (2023). REFER TO ARBORIST REPORT
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- EXISTING GAS VALVE TO BE REMOVED
- EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | OVERALL DEMOLITION PLAN |

Sheet 10 of 145
Scale 1:1500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 030 | B |

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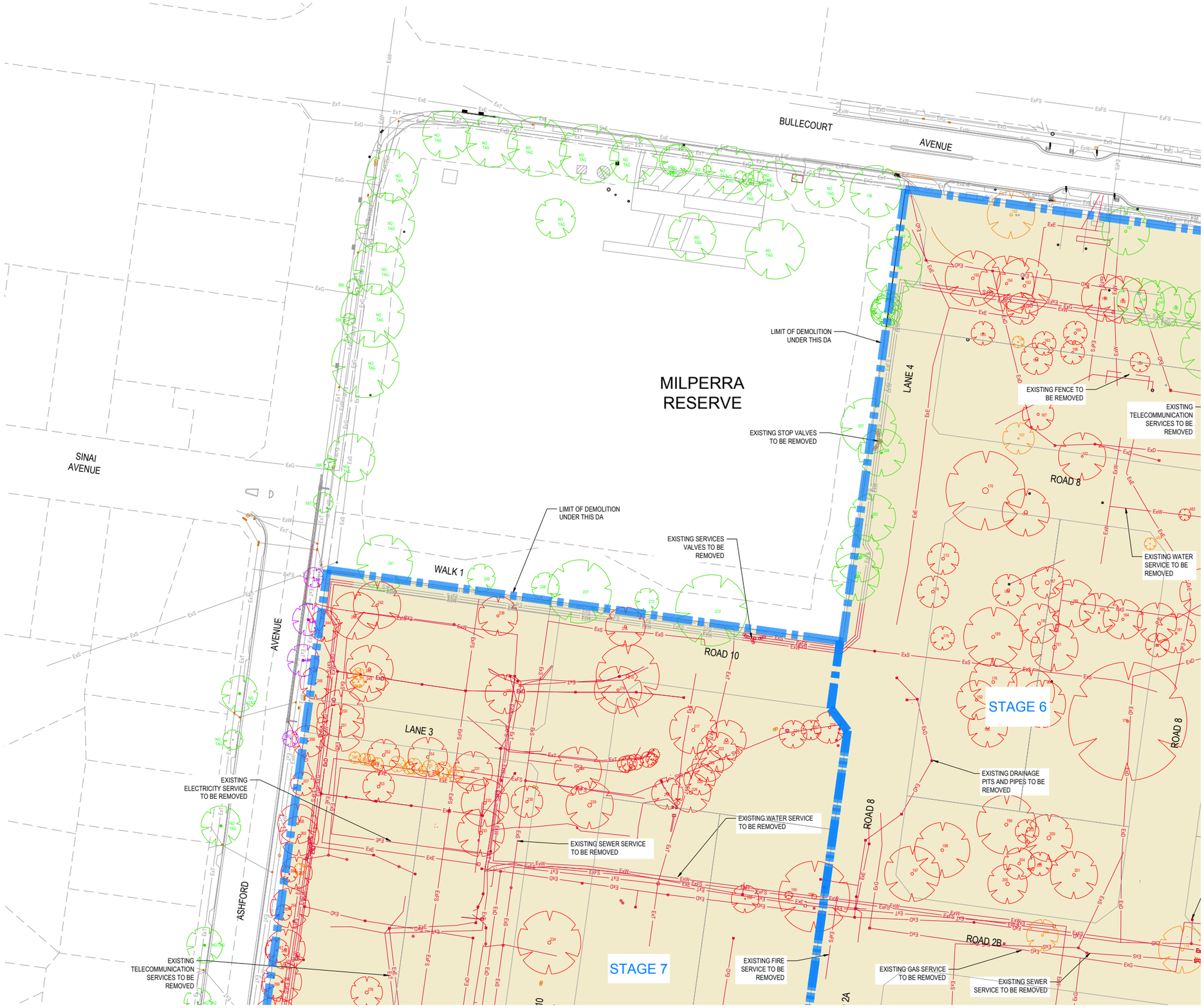


## LEGEND - DEMOLITION PLAN PLAN

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2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DEMOLITION PLAN
SHEET 1 OF 6

Sheet 11 of 145
Scale 1:500 @ A1

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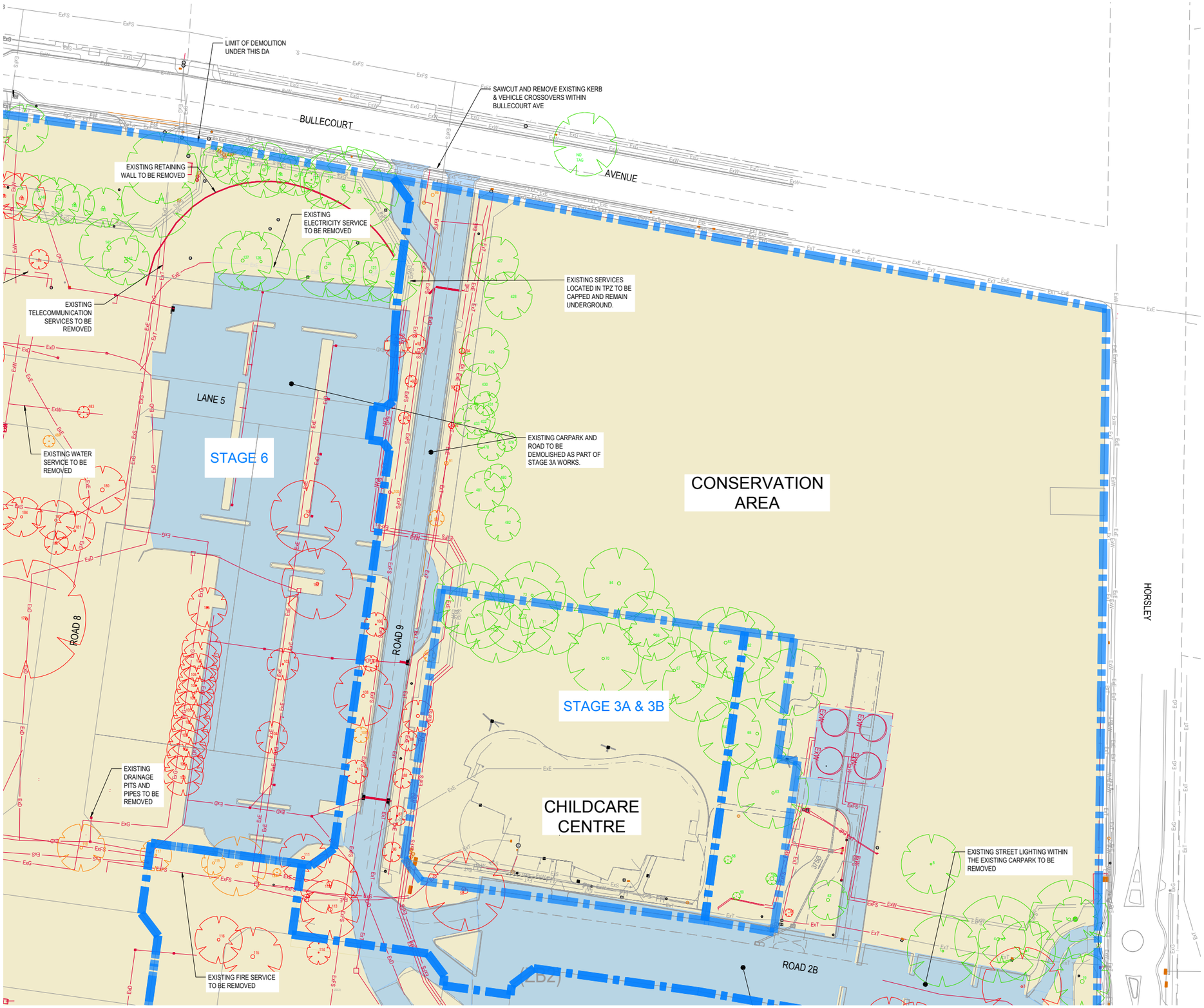


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Drawing Title: DEMOLITION PLAN
SHEET 2 OF 6

Sheet 12 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
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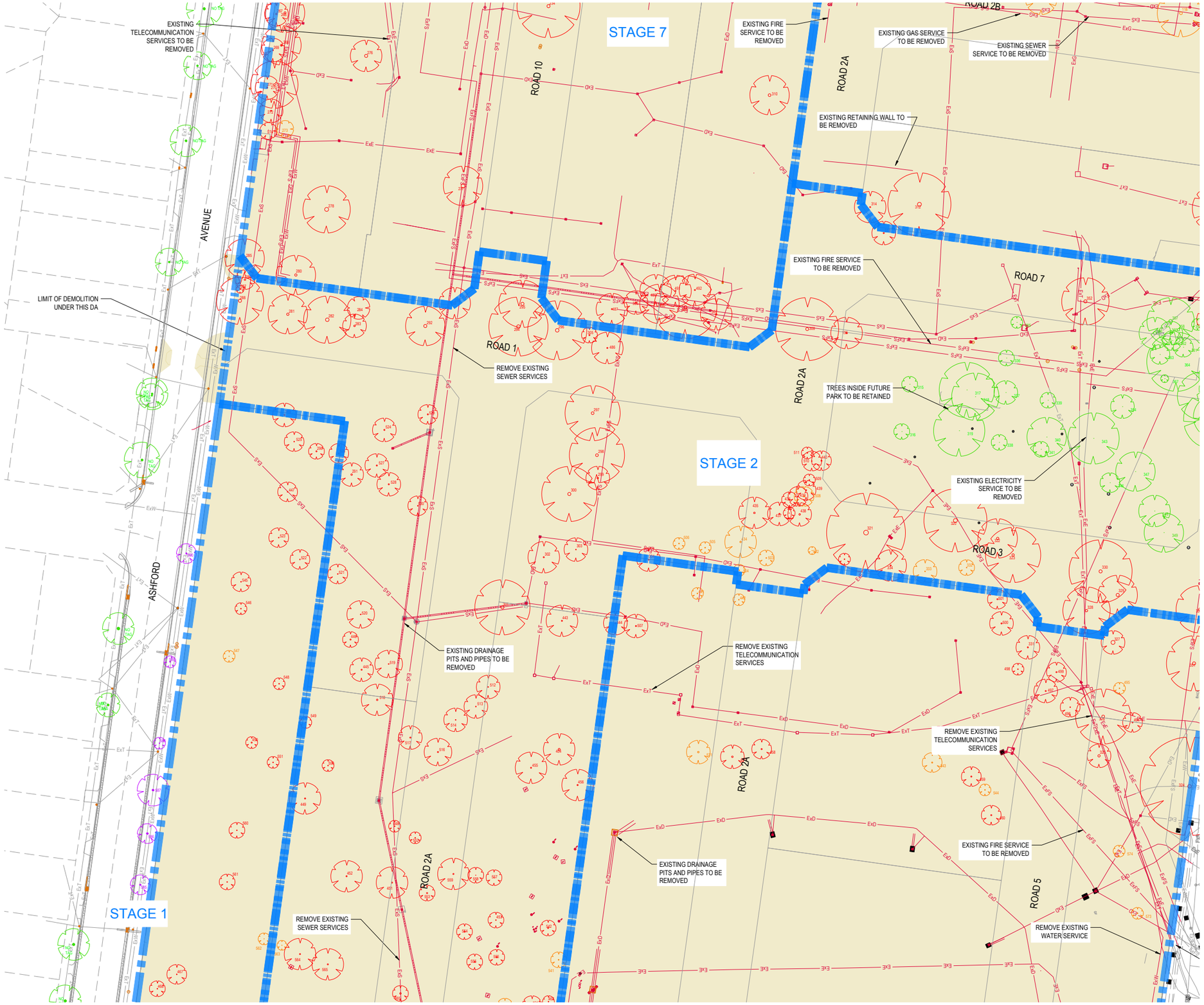


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2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DEMOLITION PLAN
SHEET 3 OF 6

Sheet 13 of 145

Scale 1:500 @ A1

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EXISTING FIRE SERVICE TO BE REMOVED

TO BE REMOVED AS PART OF STAGE 3 WORKS.

LANE 1

ROAD 6

ROAD 2B

(ZEBZ)

(ZEE3)

STAGE 5

EXISTING BOLLARDS TO BE REMOVED

EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

LIMIT OF DEMOLITION UNDER THIS DA

EXISTING STREET LIGHTING WITHIN THE EXISTING CARPARK TO BE REMOVED

NEIGHBOURING DRIVEWAY TO BE REMOVED UNDER SSD-51147710

UNDERGROUND TANKS TO BE REMOVED

EXISTING ENDEAVOUR ENERGY EASEMENTS TO BE EXTINGUISHED NOW THAT THE EXISTING SUBSTATIONS WERE DECOMMISSIONED AND REMOVED AS PART OF DA1512/2023.

EXISTING ASPHALT ROAD TO BE DEMOLISHED DURING STAGE 3A WORKS.

LIMIT OF DEMOLITION UNDER THIS DA

ROAD

MT ST JOSEPH HIGH SCHOOL

ROAD 3

LANE 2

LIMIT OF DEMOLITION UNDER THIS DA

CUT AND CAP REDUNDANT SERVICES AT BOUNDARY.

HORSLEY ROAD

## LEGEND - DEMOLITION PLAN PLAN

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DEMOLITION PLAN
SHEET 4 OF 6

Sheet 14 of 145

Scale 1:500 @ A1

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| Project Ref | Stage No | Drawing No | Rev |
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| 2301879 | 321 | 034 | B |

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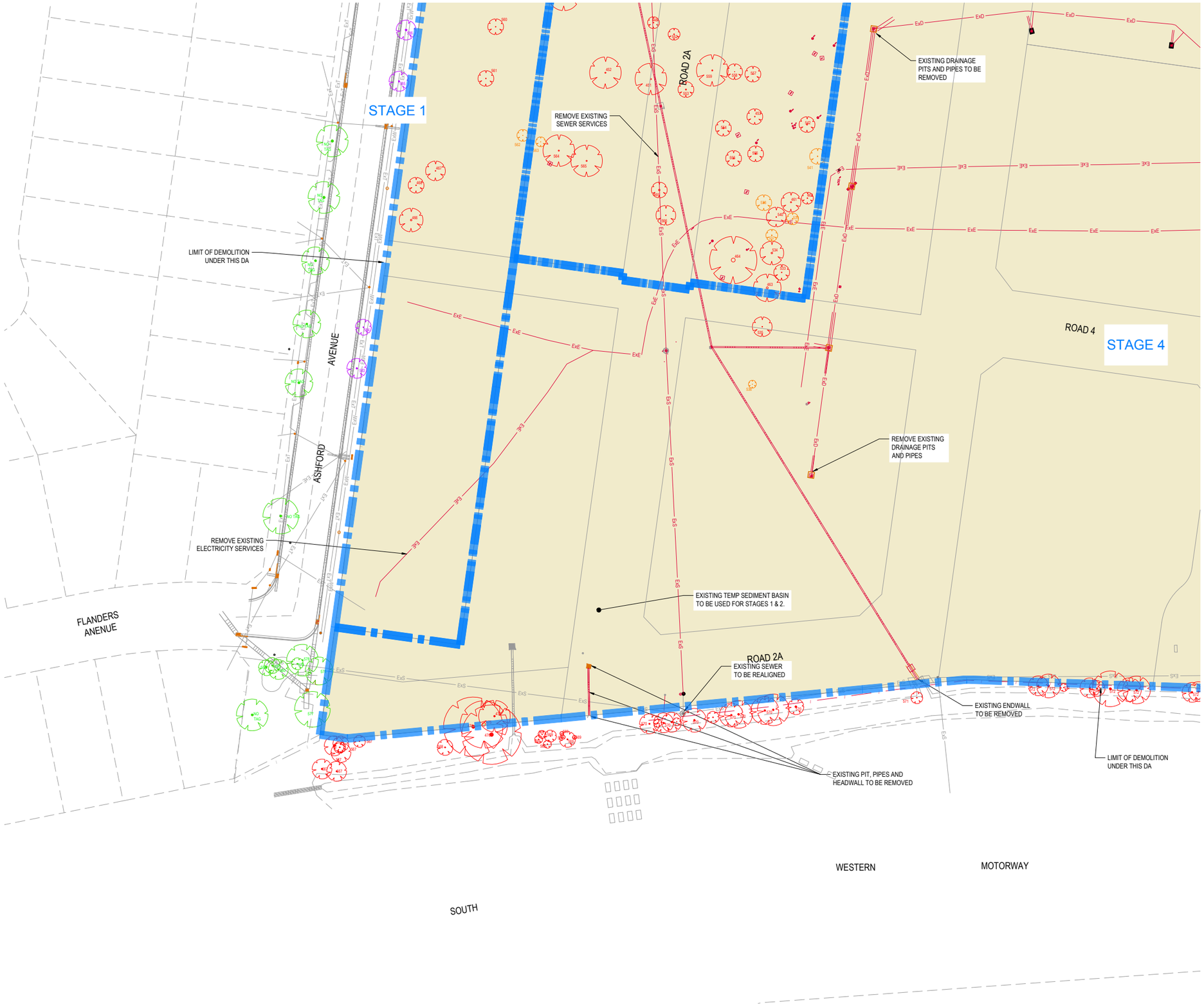


## LEGEND - DEMOLITION PLAN PLAN

- EXISTING TREE TO BE REMOVED
- EXISTING TREE
- EXISTING TREE TO BE REMOVED DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS. REFER TO ARBORIST REPORT
- EXISTING TREE TO BE REMOVED UNDER CHAPTER 2.3 OF THE CANTERBURY-BANKSTOWN DCP (2023). REFER TO ARBORIST REPORT
- EXTENT OF WORKS
- EXISTING STORMWATER PIT/PIPE TO BE REMOVED
- ExS — EXISTING SEWER TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- ExE — EXISTING ELECTRICITY (UNDERGROUND) TO BE REMOVED
- ExO/H E — EXISTING ELECTRICITY (OVERHEAD) TO BE REMOVED
- ExG — EXISTING GAS TO BE REMOVED
- ExT — EXISTING TELECOMMUNICATIONS TO BE REMOVED
- ExW — EXISTING WATER TO BE REMOVED
- ExFS — EXISTING FIRE SERVICE TO BE REMOVED
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING TELECOMMUNICATIONS PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING SEWER STRUCTURE TO BE REMOVED
- EXISTING STOP VALVE TO BE REMOVED
- EXISTING WATER HYDRANT TO BE REMOVED
- EXISTING GAS VALVE TO BE REMOVED
- EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
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mirvac

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SCALE 1:500 AT A1 SIZE

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DEMOLITION PLAN
SHEET 5 OF 6

Sheet 15 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 035 | B |

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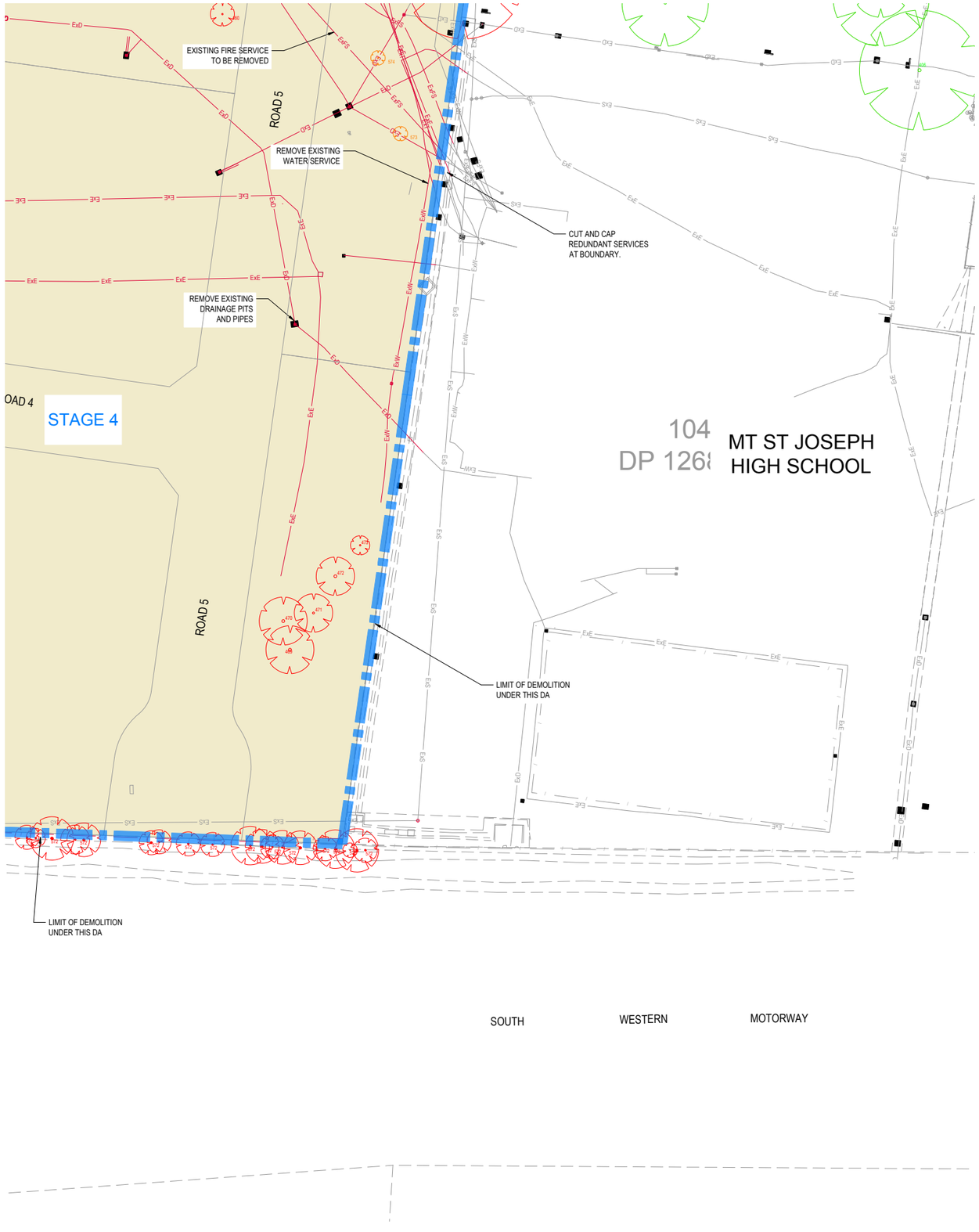


## LEGEND - DEMOLITION PLAN PLAN

- EXISTING TREE TO BE REMOVED
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- EXISTING TREE TO BE REMOVED DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS. REFER TO ARBORIST REPORT
- EXISTING TREE TO BE REMOVED UNDER CHAPTER 2.3 OF THE CANTERBURY-BANKSTOWN DCP (2023). REFER TO ARBORIST REPORT
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- EXISTING FENCE TO BE REMOVED
- ExE — EXISTING ELECTRICITY (UNDERGROUND) TO BE REMOVED
- ExO/H E — EXISTING ELECTRICITY (OVERHEAD) TO BE REMOVED
- ExG — EXISTING GAS TO BE REMOVED
- ExT — EXISTING TELECOMMUNICATIONS TO BE REMOVED
- ExW — EXISTING WATER TO BE REMOVED
- ExFS — EXISTING FIRE SERVICE TO BE REMOVED
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING TELECOMMUNICATIONS PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING SEWER STRUCTURE TO BE REMOVED
- EXISTING STOP VALVE TO BE REMOVED
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- EXISTING GAS VALVE TO BE REMOVED
- EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

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SCALE 1:500 AT A1 SIZE

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| Designed Date | R. GOVENDER 23.06.2025 |
| Drawn | G.N. |
| Checked Date | S. FERGUSON 29.10.25 |
| Approved Reg. No. Date | S. FERGUSON PE0008347 29.10.25 |
| DA Number | - |

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DEMOLITION PLAN
SHEET 6 OF 6

Sheet 16 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 036 | B |

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LEGEND - FUNCTIONAL LAYOUT PLAN

- PROPOSED SUPER LOT BOUNDARY
- PROPOSED INTERNAL LOT BOUNDARY
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL
- 11 SUPER LOT NUMBER
- *C1 INDICATES COMMUNITY TITLE SCHEME LOT NUMBER

**WARNING**

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL LOT LAYOUT PLAN

Sheet 17 of 145

Scale 1:1250 @ A1

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| Project Ref | Stage No | Drawing No | Rev |
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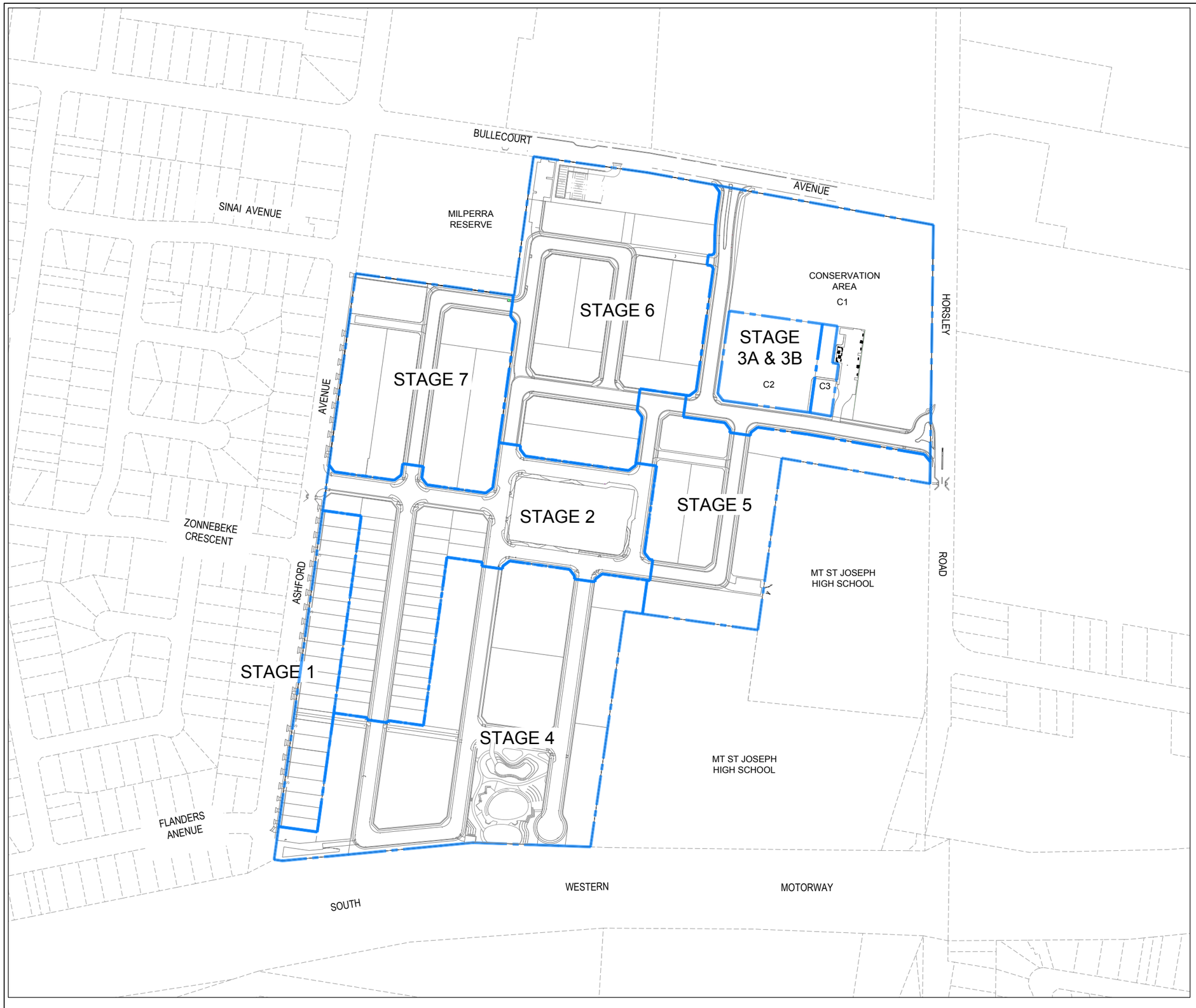


LEGEND

- E — ELECTRICITY (UNDERGROUND)
- O — OPTIC FIBRE
- T — TELECOMMUNICATION
- G — GAS
- DW — WATER
- NDW — RECYCLED WATER
- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- S — SEWER & MAINTENANCE STRUCTURES
- TACTILE PAVERS (INDICATIVE ONLY)
- Ex E — EXISTING ELECTRICITY (UNDERGROUND)
- O/H E — EXISTING ELECTRICITY (OVERHEAD)
- Ex G — EXISTING GAS
- Ex T — EXISTING TELECOMMUNICATION
- Ex DW — EXISTING WATER
- Ex NDW — EXISTING RECYCLED WATER
- Ex D — EXISTING STORMWATER DRAIN
- Ex S — EXISTING SEWER
- H — EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- RIDGE LINE
- RETAINING WALL
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

SITE PLAN

NOT TO SCALE

**WARNING**

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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | OVERALL LAYOUT PLAN |

Sheet 18 of 145

Scale 1:2000 @ A1

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| Project Ref | Stage No | Drawing No | Rev |
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| 2301879 | 321 | 050 | B |

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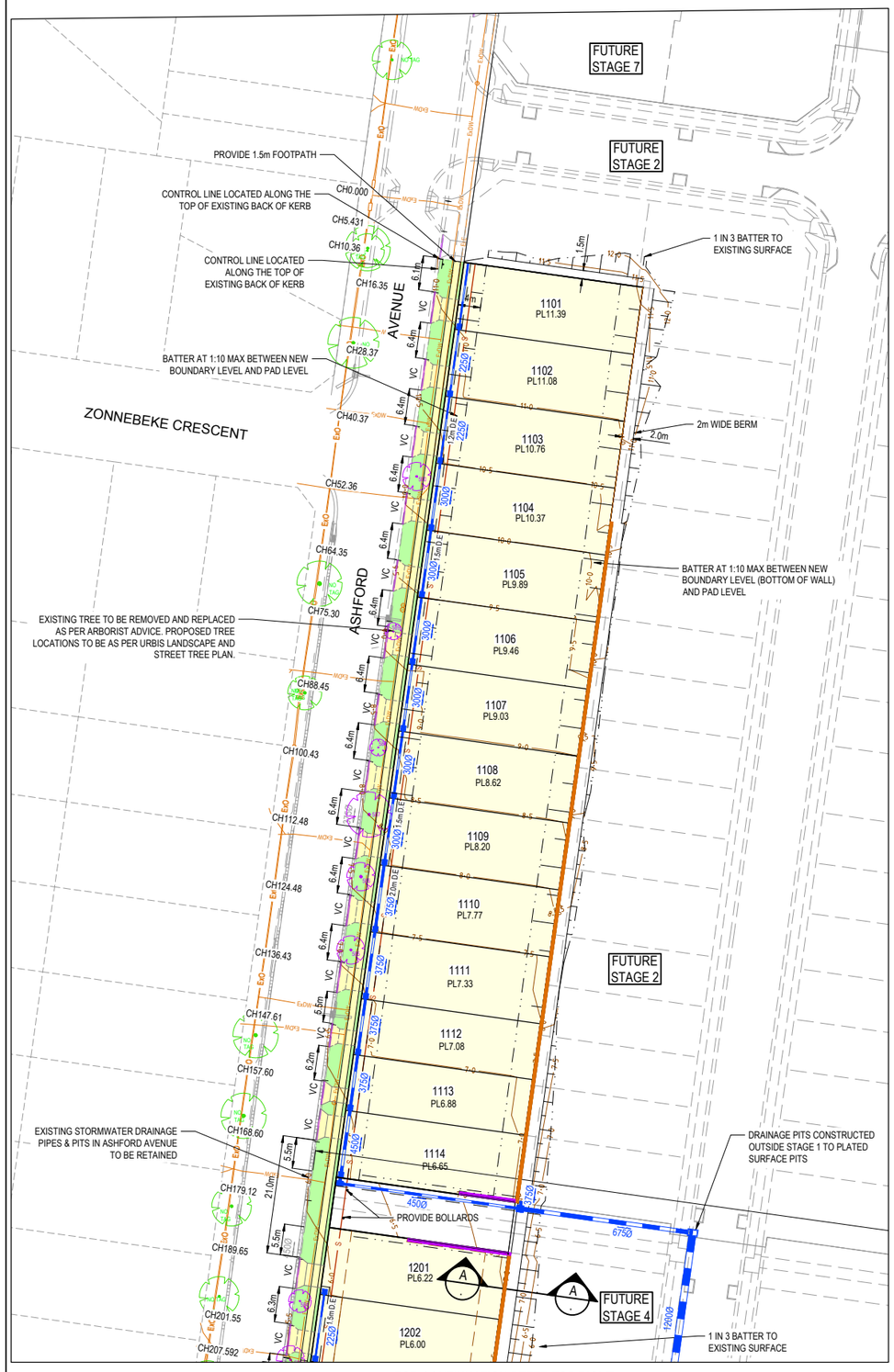
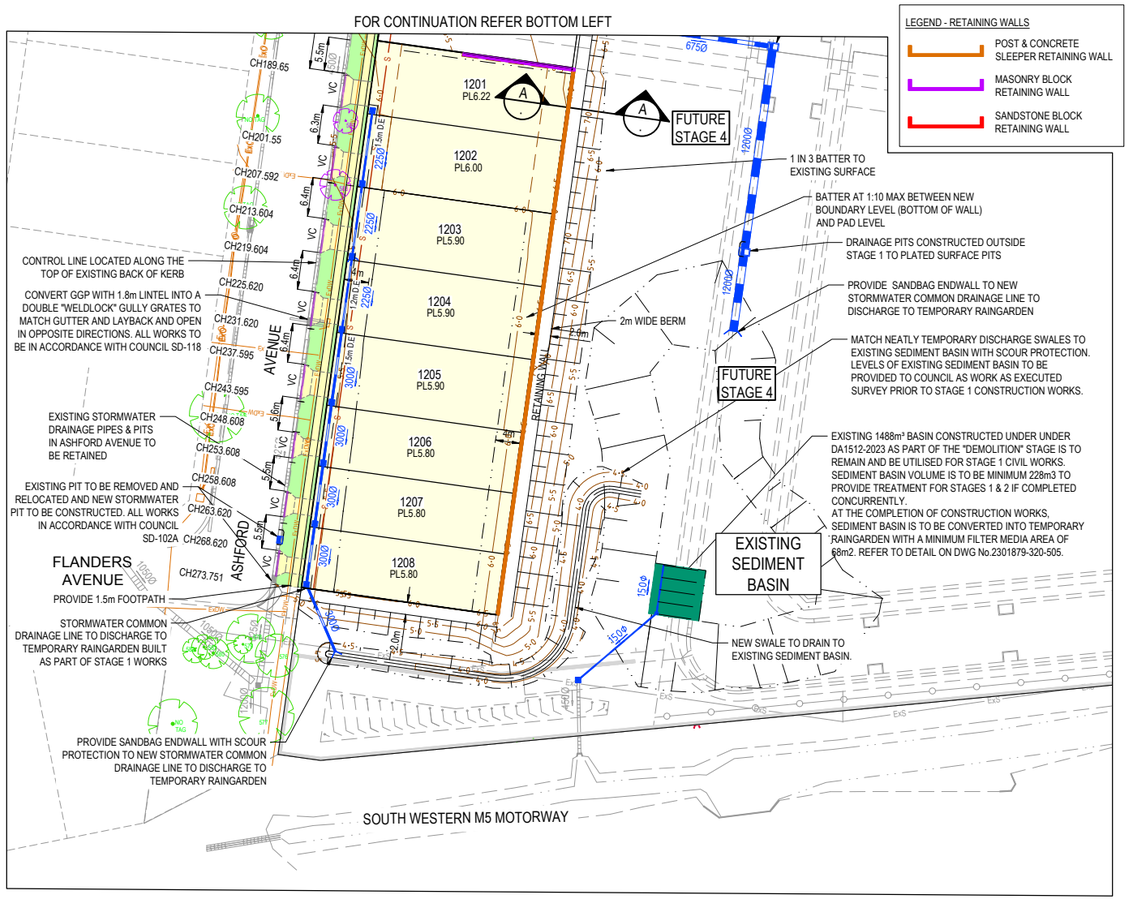


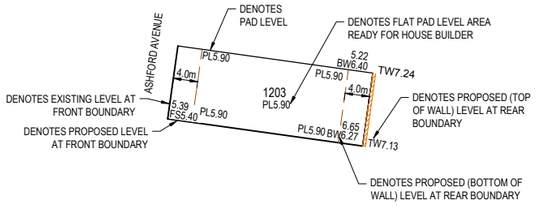




LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- SANDSTONE BLOCK RETAINING WALL

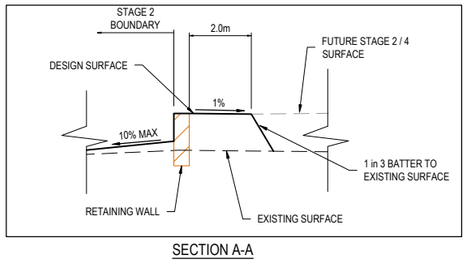
LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- 141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 BOTTOM OF RETAINING WALL
- PL11.08 PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




LOT LEVEL LEGEND

NOT TO SCALE




SECTION A-A

TYPICAL REAR LOTS INTERFACE

NOT TO SCALE

SITE PLAN

NOT TO SCALE

**WARNING**

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SCALE 1:500 AT A1 SIZE

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | LAYOUT PLAN<br>STAGE 1 |

Sheet 19 of 145

Scale 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 051 | B |

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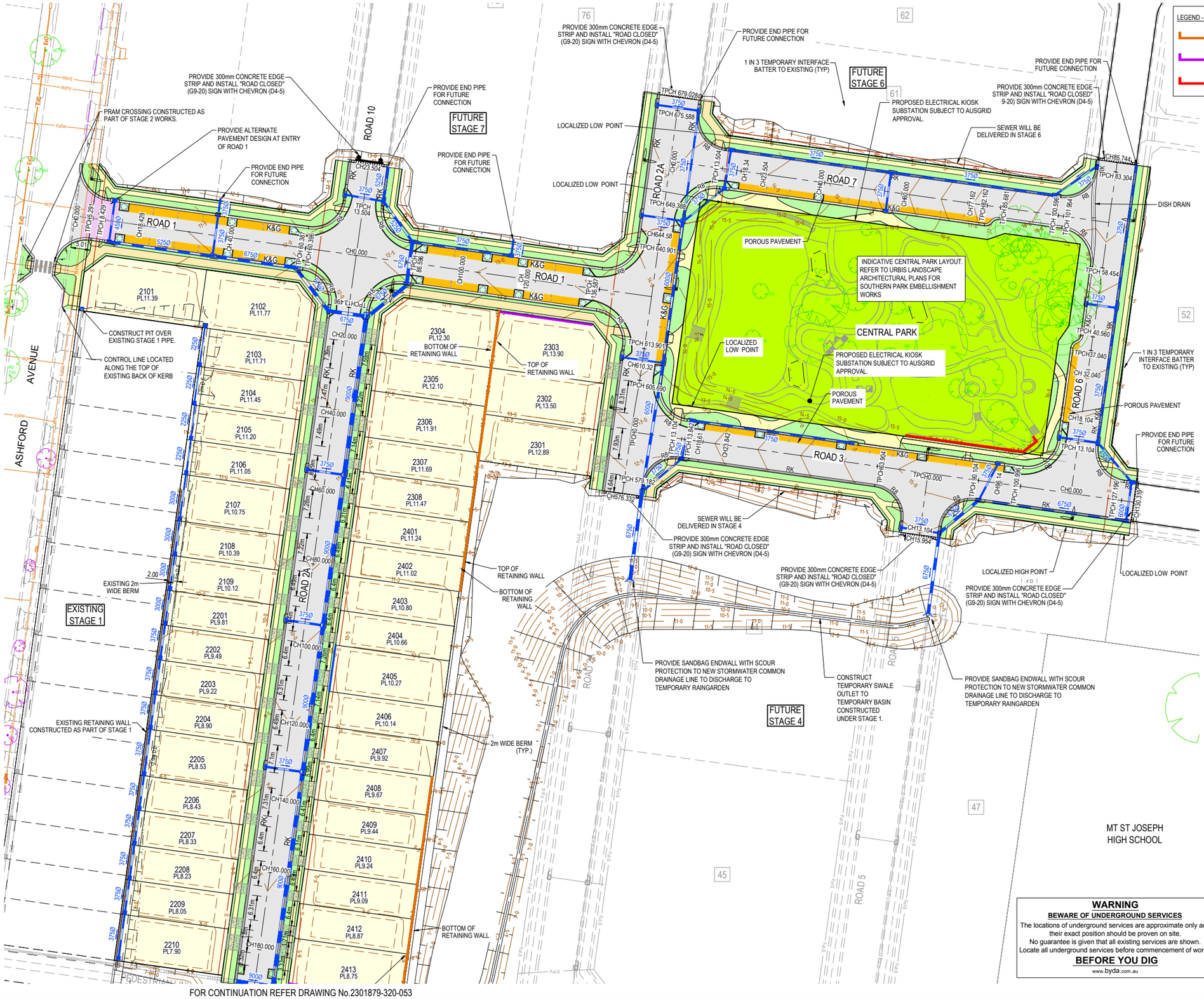


LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- SANDSTONE BLOCK RETAINING WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- 141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 BOTTOM OF RETAINING WALL
- PL11.08 PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
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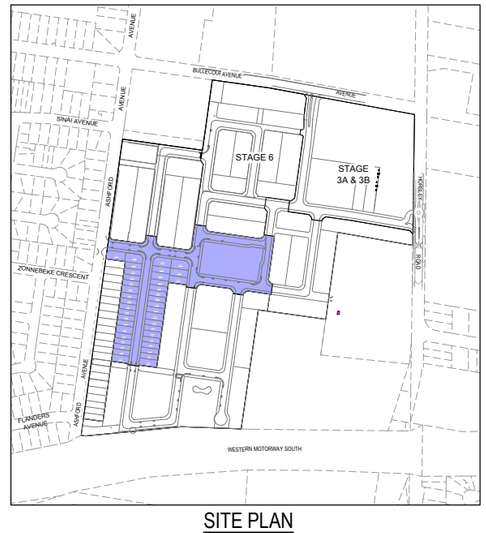
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SITE PLAN
NOT TO SCALE

**WARNING**
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SCALE 1:500 AT A1 SIZE

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| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | LAYOUT PLAN<br>STAGE 2<br>SHEET 1 OF 2 |

Sheet 20 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
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| 2301879 | 321 | 052 | B |

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FOR CONTINUATION REFER DRAWING No.2301879-320-052

LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- SANDSTONE BLOCK RETAINING WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
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- FR157.40 FINISHED RIDGE LINE LEVEL
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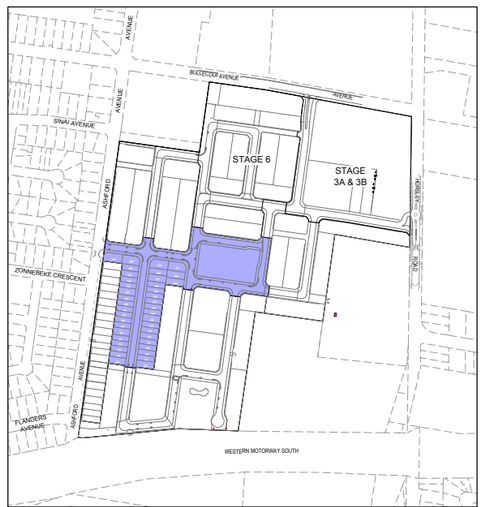
- BW159.30 BOTTOM OF RETAINING WALL
- PL11.08 PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SITE PLAN
NOT TO SCALE

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SCALE 1:500 AT A1 SIZE

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| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN
STAGE 2
SHEET 2 OF 2

Sheet 21 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 053 | B |

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NORTHERN PARK (FUTURE)

BULLECOURT AVENUE

PROVIDE ALTERNATE PAVEMENT DESIGN AT ENTRY OF ROAD 9

ROAD 9

FUTURE STAGE 6

SANDBAG HEADWALL

LANE 5

CONSTRUCT HEAVY DUTY VFC TO BE IN ACCORDANCE WITH COUNCIL STANDARDS S-008

CONSERVATION AREA

HIGH POINT

FUTURE STAGE 6

MAXIMUM 1 IN 3 TEMPORARY INTERFACE BATTER TO EXISTING (TYP).

ELECTRICAL SUBSTATION. LOCATION SUBJECT TO FINAL APPROVAL

CHILDCARE STORMWATER DISCHARGE POINT INTO COUNCIL' DRAINAGE SYSTEM.

TEMPORARY SEDIMENT BASIN TO BE CONVERTED TO A TEMPORARY RAINGARDEN ONCE STAGE 3A WORKS IS COMPLETED.

LOCALIZED LOW POINT

CHILDCARE CENTRE

EXISTING FOOTPATH TO MATCH INTO PROPOSED ROAD 2 SHARED PATH WITH NO STEP. EXISTING FOOTPATH LEVELS TO BE CONFIRMED.

LOCALIZED LOW POINT

APPROX. RL21.61

PROPOSED FOOTPATH

RL21.34

RL22.1

ROAD 2B

POROUS PAVEMENT

POROUS PAVEMENT TO BE COLLECTED IN SUBSOIL DRAINAGE AND CONVEYED TO DRAINAGE PITS

HIGH POINT

CONSTRUCTION OF VFC TO BE IN ACCORDANCE WITH COUNCIL'S STANDARD DRAWING SD-004

HORSLEY ROAD

EXISTING CONCRETE BARRIER TO BE REMOVED

DISH DRAIN

EXISTING SERVICES AND PITS TO BE DEEPENED OR REMOVED TO SUIT INTRODUCTION OF NEW INTERSECTION DESIGN

DISH DRAIN

NEIGHBOURING DRIVEWAY TO BE REMOVED UNDER SSD-51147710

PROVIDE 300mm CONCRETE EDGE STRIP AND INSTALL "ROAD CLOSED" (G9-20) SIGN WITH CHEVRON (D4-5)

MAXIMUM 1 IN 3 TEMPORARY INTERFACE BATTER TO EXISTING (TYP).

PROVIDE 300mm CONCRETE EDGE STRIP AND INSTALL "ROAD CLOSED" (G9-20) SIGN WITH CHEVRON (D4-5)

FUTURE STAGE 5

MAXIMUM 1 IN 3 TEMPORARY INTERFACE BATTER TO EXISTING (TYP).

HIGH POINT

PROVIDE ALTERNATE PAVEMENT DESIGN AT ENTRY OF ROAD 2B

FOR CONTINUATION REFER DRAWING No.2301879-320-055

## LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- SANDSTONE BLOCK RETAINING WALL

## LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
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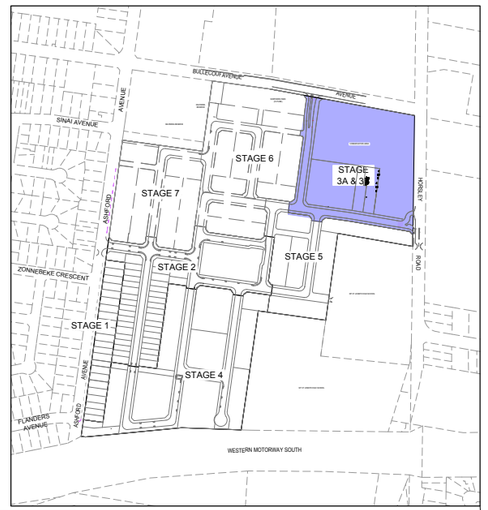


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## SITE PLAN

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mirvac

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SCALE 1:500 AT A1 SIZE

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| Checked | S. FERGUSON |
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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | LAYOUT PLAN STAGE 3A SHEET 1 OF 2 |

| Sheet | 22 of 145 | | |
|---|---|---|---|
| Scale | 1:500 @ A1 | | |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 054 | C |

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- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- SANDSTONE BLOCK RETAINING WALL

LEGEND - LAYOUT PLAN
- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
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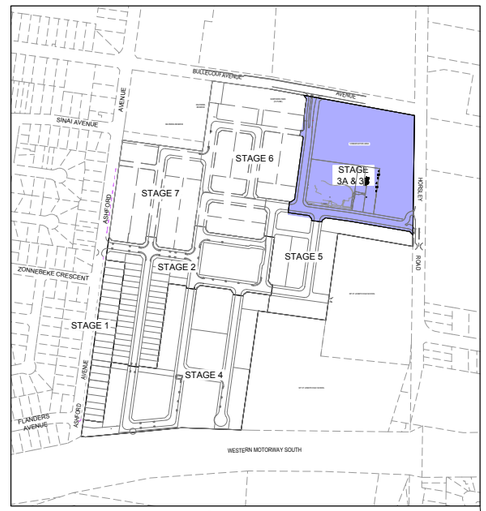
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

MILPERRA RESERVE
NORTHERN PARK (FUTURE)
BULLECOURT AVENUE
CONSERVATION AREA
FOR CONTINUATION REFER DRAWING No.2301879-320-054
LANE 4
LANE 5
ROAD 8
ROAD 9
ROAD 2A
ROAD 2B
FUTURE STAGE 6
FUTURE STAGE 7
FUTURE STAGE 5
CHILDCARE CENTRE
PROVIDE ALTERNATE PAVEMENT DESIGN AT ENTRY OF ROAD 9
CONSTRUCT HEAVY DUTY VFC TO BE IN ACCORDANCE WITH COUNCIL STANDARDS S-008
SANDBAG HEADWALL
TEMPORARY TAIL OUT SWALE
HIGH POINT
SEDIMENT BASIN
SOLID 150mm DIA. UPVC PIPE
SOLID 150mm DIA. UPVC PIPE GRADED AT 1% TO DRAIN TO EXISTING SURFACE LEVEL
DISCHARGE CONTROL PIT
PERMANENT DRAINAGE PIT
TEMPORARY SEDIMENT BASIN TO BE CONVERTED TO A TEMPORARY RAINGARDEN ONCE STAGE 3A WORKS IS COMPLETED.
PERMANENT DRAINAGE PIT AND PIPES CONSTRUCTED OUTSIDE OF STAGE 3 TO HAVE LINTELS PLATED OFF.
MAXIMUM 1 IN 3 TEMPORARY INTERFACE BATTER TO EXISTING (TYP).
CHILDCARE STORMWATER DISCHARGE POINT INTO COUNCIL' DRAINAGE SYSTEM.
ELECTRICAL SUBSTATION. LOCATION SUBJECT TO FINAL APPROVAL
EXISTING FOOTPATH TO MATCH INTO PROPOSED ROAD 2 SHARED PATH WITH NO STEP. EXISTING FOOTPATH LEVELS TO BE CONFIRMED.
LOCALIZED LOW POINT
PROPOSED FOOTPATH
APPROX. RL21.61
RL21.34
PROVIDE 300mm CONCRETE EDGE STRIP AND INSTALL "ROAD CLOSED" (G9-20) SIGN WITH CHEVRON (D4-5)
MAXIMUM 1 IN 3 TEMPORARY INTERFACE BATTER TO EXISTING (TYP).
PROVIDE 300mm CONCRETE EDGE STRIP AND INSTALL "ROAD CLOSED" (G9-20) SIGN WITH CHEVRON (D4-5)
CH0.000 CH20.000 CH40.000 CH60.000 CH80.000 CH100.000 CH120.000 CH140.000 CH160.000 CH175.878 CH863.685 CH872.580 CH877.361 CH897.799 CH940.000 CH960.000 CH980.000 CH1000.000
TPCH179.977 TPCH178.878 TPCH13.504 TPCH866.665 TPCH883.651 TPCH898.850 TPCH825.050 TPCH306.549 CH303.583
RL22.4 RL22.666 RL22.696 RL22.0 RL22.6 RL22.713 RL22.602 RL22.444 RL22.1




SITE PLAN
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| Date | 23.06.2025 |
| Drawn | G.N. |
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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | LAYOUT PLAN STAGE 3A SHEET 2 OF 2 |

| Sheet | Scale | Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|---|---|
| 23 of 145 | 1:500 @ A1 | 2301879 | 321 | 055 | C |

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FOR CONTINUATION REFER DRAWING No.2301879-320-057

EXISTING STAGE 1

EXISTING STAGE 2

PEDESTRIAN LINK 1

PEDESTRIAN LINK 2

ROAD 2A

ROAD 4

ROAD 5

AVENUE

ASHFORD

SOUTHERN PARK (BASIN No.1)

BASIN 2

MT ST JOSEPH HIGH SCHOOL

WESTERN MOTORWAY SOUTH

SOUTH WESTERN MOTORWAY

EXISTING SWALE TO BE DE-SLUDGED AND FILLED TO LEVEL 1 SUPERVISION AS PART OF STAGE 4 WORKS.

PROPOSED STANDARD RAISED PEDESTRAIN THRESHOLD WITH GRATED GUTTER BRIDGE: TYPE 1 REFER TO DETAILS ON DWG 027.

TOP OF Ex. RETAINING WALL

BOTTOM OF Ex. RETAINING WALL

REMOVE EXISTING EDGE STRIP, NO ROAD SIGN, TEMPORARY TURNING AREA & BARRIER AND MATCH NEATLY INTO EXISTING CONSTRUCTION

PROVIDE BOLLARDS

INDICATIVE SUBSTATION LOCATION WITHIN SOUTHERN PARK. FINAL LOCATION SUBJECT TO DETAILED DESIGN.

CONSTRUCT HEAVY DUTY VFC TO BE IN ACCORDANCE WITH COUNCIL STANDARDS S-008

BOTTOM OF RETAINING WALL (TYP)

TOP OF RETAINING WALL. (TYP.)

PROVIDE 1.8m DOUBLE LAPPED AND CAPPED FENCING ABOVE RETAINING WALL ALONGSIDE SCHOOL BOUNDARY

REMOVE EXISTING ENDWALL AND CONNECT NEW STORMWATER DRAIN.

EXISTING RETAINING WALL CONSTRUCTED AS PART OF STAGE 1.

EXISTING SEDIMENTATION BASIN TO BE DE-SLUDGED AND FILLED TO LEVEL 1 SUPERVISION AS PART OF STAGE 4 WORKS.

BOTTOM OF RETAINING WALL

TOP OF RETAINING WALL

DELIVERY OF THIS LOT IS TO ENSURE RE-GRADING ALONG ASHFORD AVENUE AND CONSTRUCT VC TO EXISTING KERB AND GUTTER

EXISTING SEWER TO BE REALIGNED AS PER OF SEPARATE SYDNEY WATER APPLICATION APPROVAL

PROVIDE HANDRAIL BALL FENCE ALONG THE RETAINING WALL.

PROPOSED 4 WIRE ROPE SAFETY BARRIER SYSTEM 3m FROM BACK OF KERB

PROPOSED NEW SEWER ALIGNMENT

EXISTING SEWER TO BE REALIGNED AS PER OF SEPARATE SYDNEY WATER APPLICATION APPROVAL

PROVIDE HANDRAIL BALL FENCE ALONG THE RETAINING WALL.

CONSTRUCT HEAVY DUTY VFC TO BE IN ACCORDANCE WITH COUNCIL STANDARDS S-008

PROVIDE 1.8m PALISADE FENCING ABOVE RETAINING WALL ALONGSIDE M5 BOUNDARY

REFER TO URBIS LANDSCAPE ARCHITECTURAL PLANS FOR SOUTHERN PARK EMBELLISHMENT WORKS

PROVIDE 1.8m DOUBLE LAPPED AND CAPPED FENCING ABOVE RETAINING WALL

LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
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LEGEND - LAYOUT PLAN

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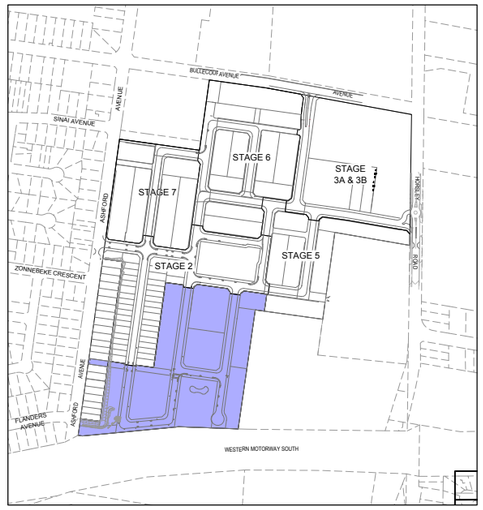


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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN
STAGE 4
SHEET 1 OF 2

Sheet 24 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 056 | B |

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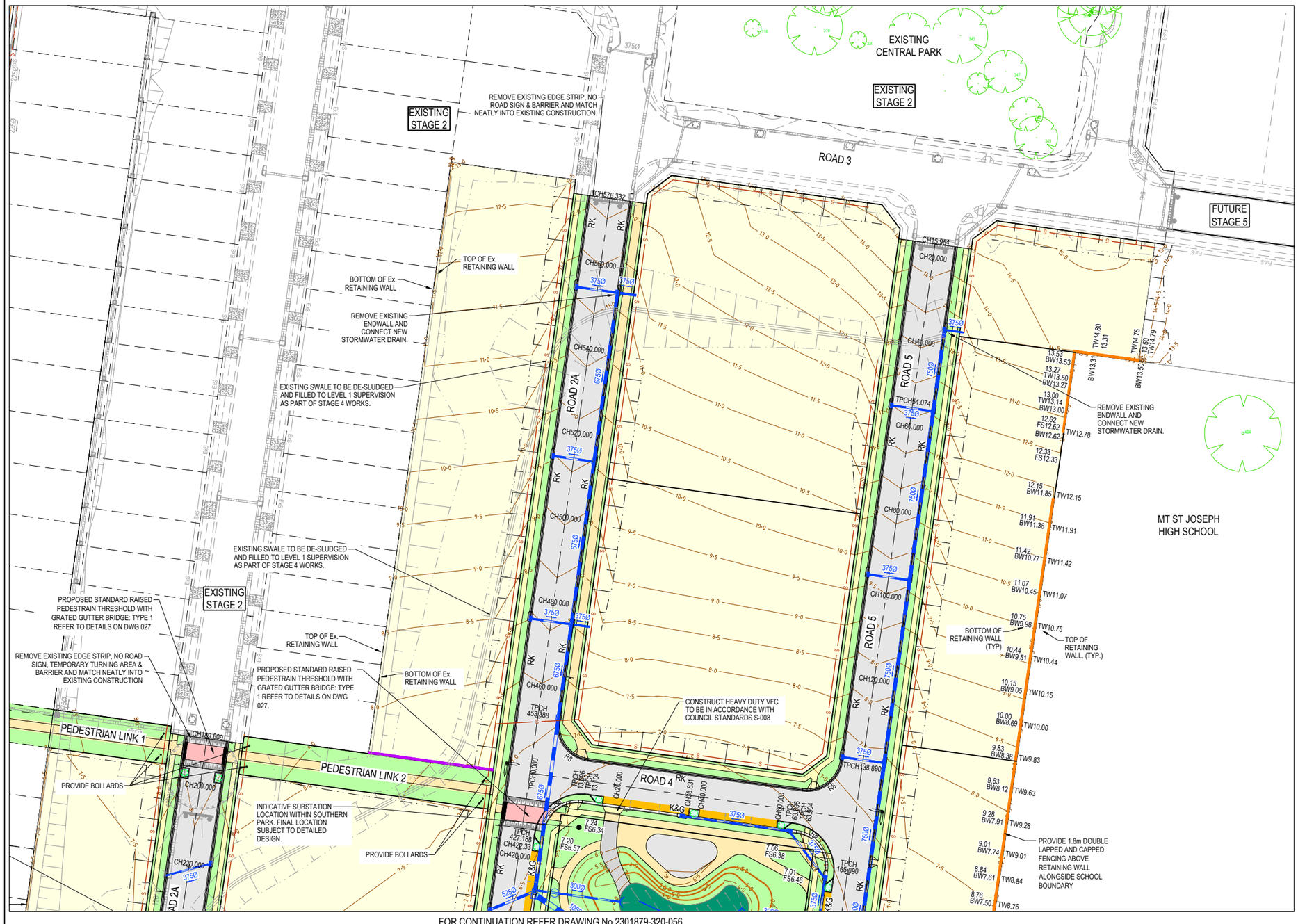


FOR CONTINUATION REFER DRAWING No.2301879-320-056

LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
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- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

SITE PLAN

NOT TO SCALE

**WARNING**

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | LAYOUT PLAN<br>STAGE 4<br>SHEET 2 OF 2 |

Sheet 25 of 145

Scale 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 057 | B |

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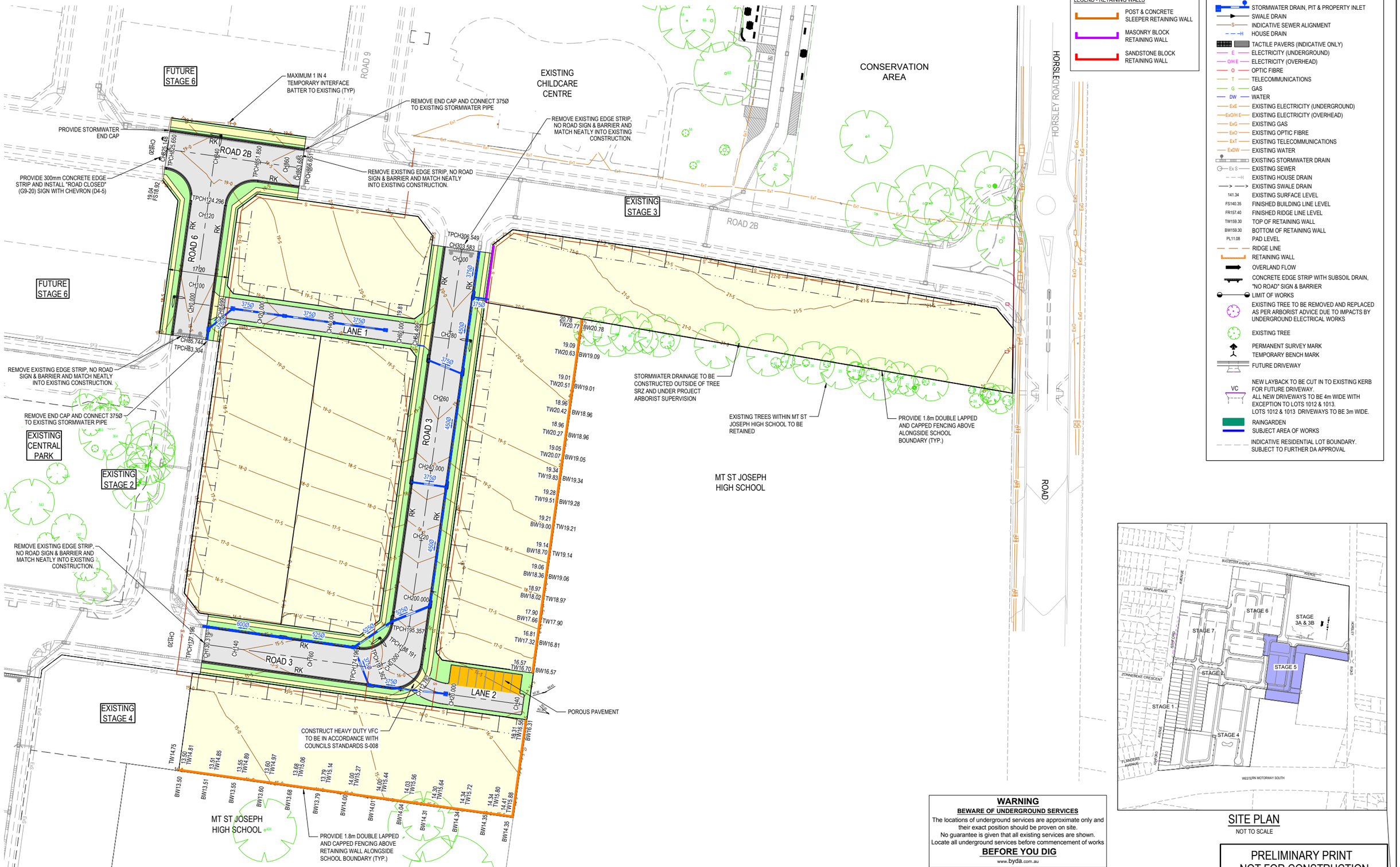


LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- SANDSTONE BLOCK RETAINING WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
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- EXISTING WATER
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- EXISTING SEWER
- EXISTING HOUSE DRAIN
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- 141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 BOTTOM OF RETAINING WALL
- PL11.08 PAD LEVEL
- RIDGE LINE
- RETAINING WALL
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- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
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- RAINGARDEN
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SITE PLAN
NOT TO SCALE

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SCALE 1:500 AT A1 SIZE

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| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
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ph: 02 46255055
www.beveridgewilliams.com.au

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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | LAYOUT PLAN STAGE 5 |

Sheet 26 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 058 | B |

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FOR CONTINUATION REFER DRAWING No.2301879-320-060

LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- SANDSTONE BLOCK RETAINING WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
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- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
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- ELECTRICITY (OVERHEAD)
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- TELECOMMUNICATIONS
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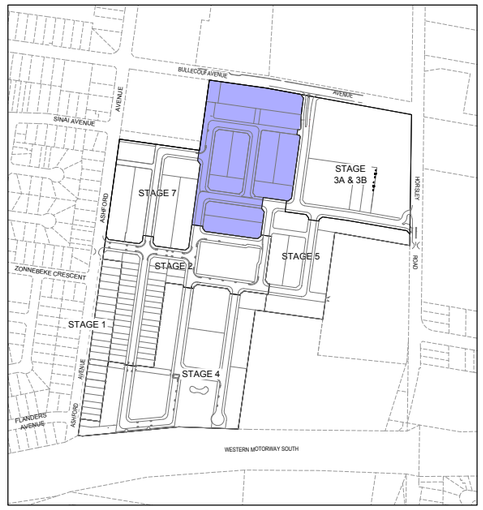


SITE PLAN
NOT TO SCALE

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN
STAGE 6
SHEET 1 OF 2

Sheet 27 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 059 | B |

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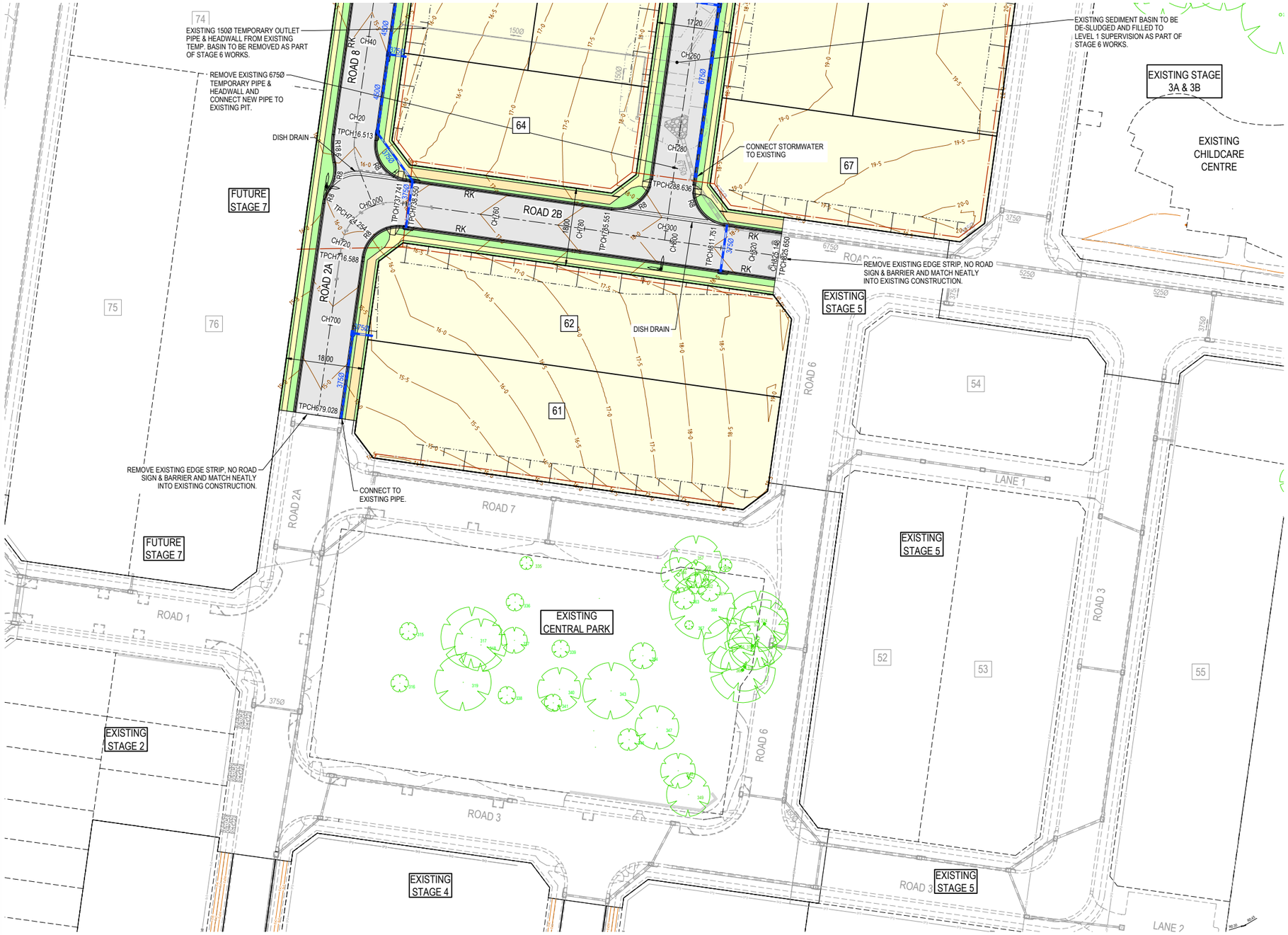
FOR CONTINUATION REFER DRAWING No.2301879-320-059




LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- SANDSTONE BLOCK RETAINING WALL

LEGEND - LAYOUT PLAN

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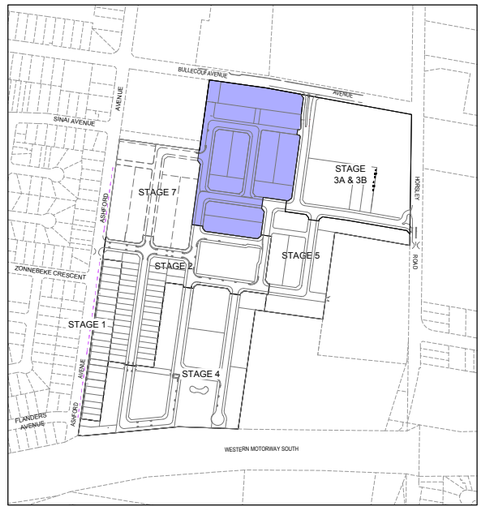


SITE PLAN

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SCALE 1:500 AT A1 SIZE

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | LAYOUT PLAN STAGE 6 SHEET 2 OF 2 |

Sheet 28 of 145

Scale 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 060 | B |

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LEGEND - RETAINING WALLS

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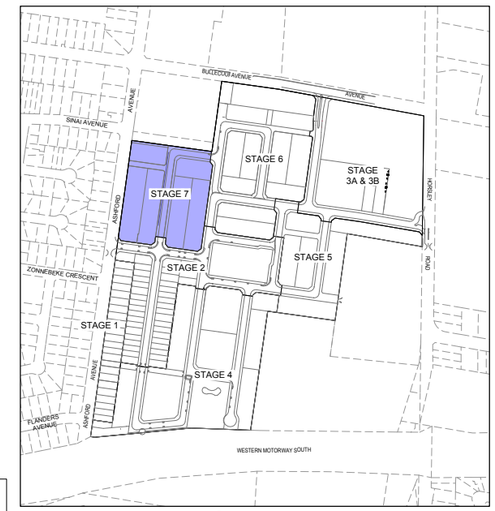


SITE PLAN

NOT TO SCALE

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mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | LAYOUT PLAN STAGE 7 |

| Sheet | 29 of 145 | | |
|---|---|---|---|
| Scale | 1:500 @ A1 | | N |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 061 | B |

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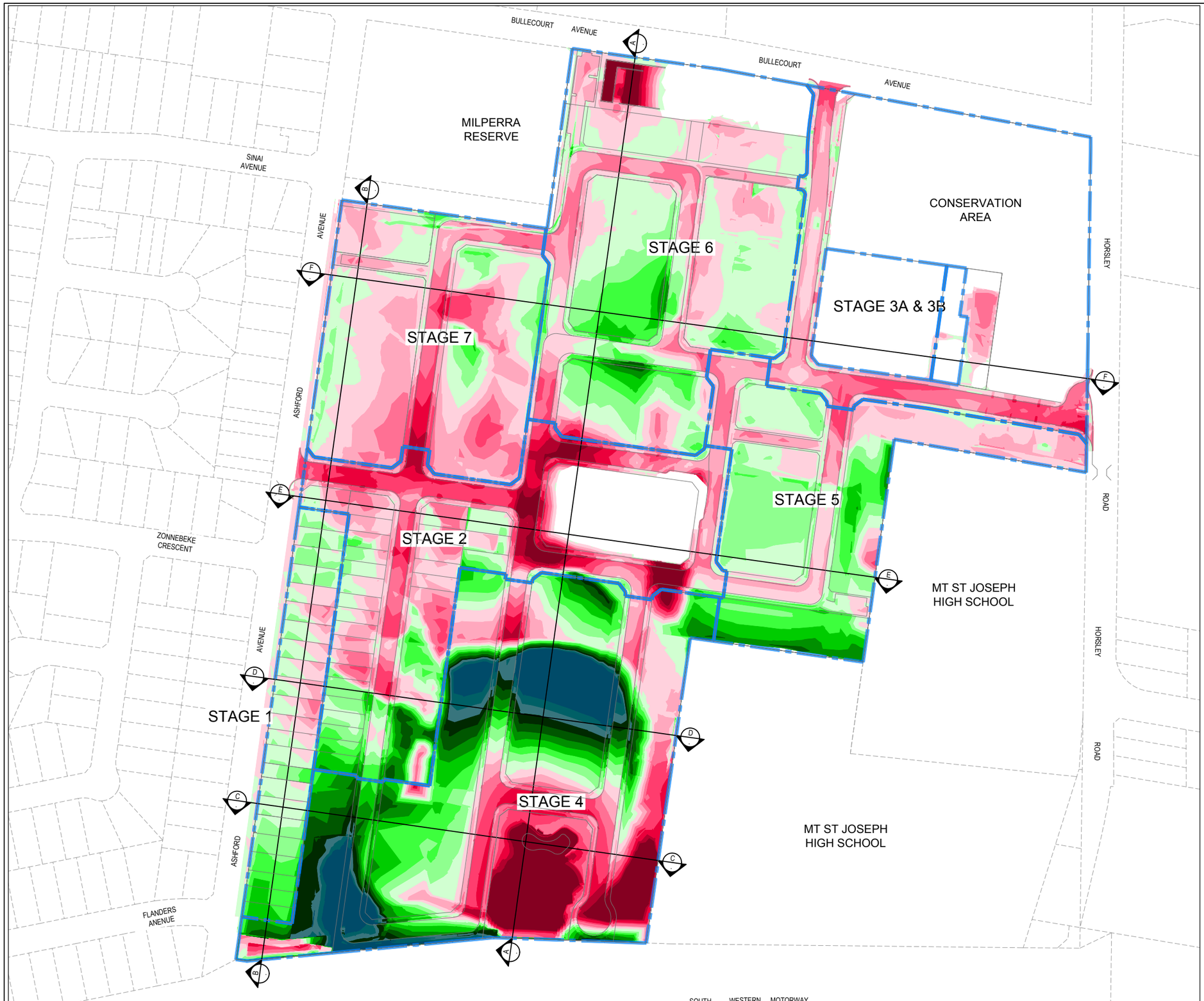


| CUT AND FILL LEGEND | | |
|---|---|---|
| DEPTH RANGE (m) | | COLOUR |
| >1.8m CUT | | |
| -1.8 | -1.5 | |
| -1.5 | -1.2 | |
| -1.2 | -0.9 | |
| -0.9 | -0.6 | |
| -0.6 | -0.3 | |
| -0.3 | 0.0 | |
| 0.0 | 0.3 | |
| 0.3 | 0.6 | |
| 0.6 | 0.9 | |
| 0.9 | 1.2 | |
| 1.2 | 1.5 | |
| 1.5 | 1.8 | |
| 1.8 | 2.1 | |
| 2.1 | 2.4 | |
| 2.4 | 2.7 | |
| >2.7m FILL | | |

APPROXIMATE EARTHWORKS VOLUMES:

CUT - 56,054m³
FILL - 58,823m³

BALANCE - 2,769m³ OF FILL

* THIS ESTIMATE IS BASED ON POST DEMOLITION EXISTING SURFACE TO BOXING DESIGN SURFACE

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0 12.5 25 50 75 100
SCALE 1:1250 AT A1 SIZE

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: BULK EARTHWORKS OVERALL PLAN

Sheet 30 of 145

Scale 1:1250 @ A1

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| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 070 | B |

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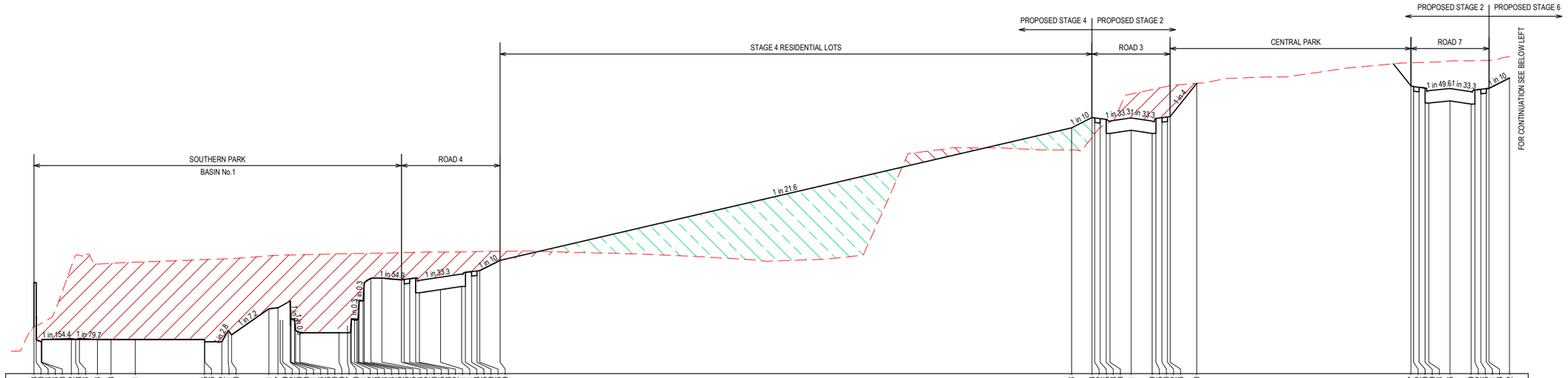


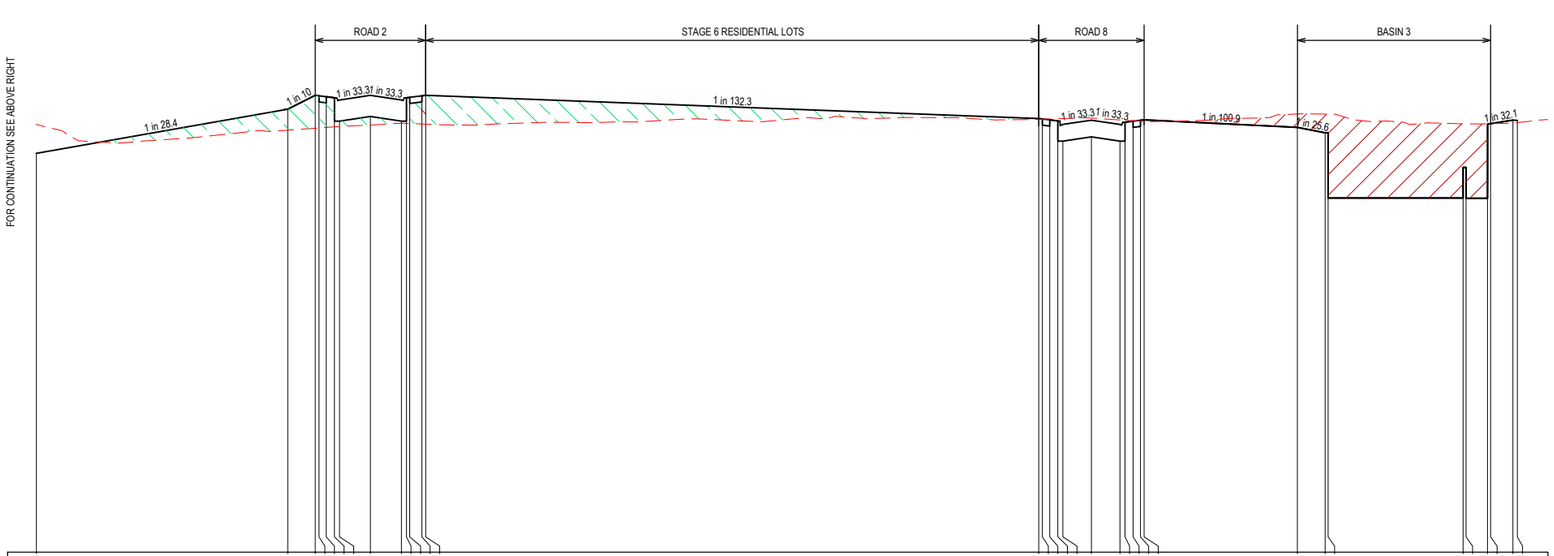


LEGEND
- EXISTING SURFACE
- DESIGN LINE
- FILL HATCH
- CUT HATCH

SECTION A-A
CROSS SECTIONS

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| REV | DESCRIPTION | DATE | DRN. | APP. |
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mirvac

HORIZ 1:500 0 5 10 20 30
VERT 1:100 0 1 2 4 6
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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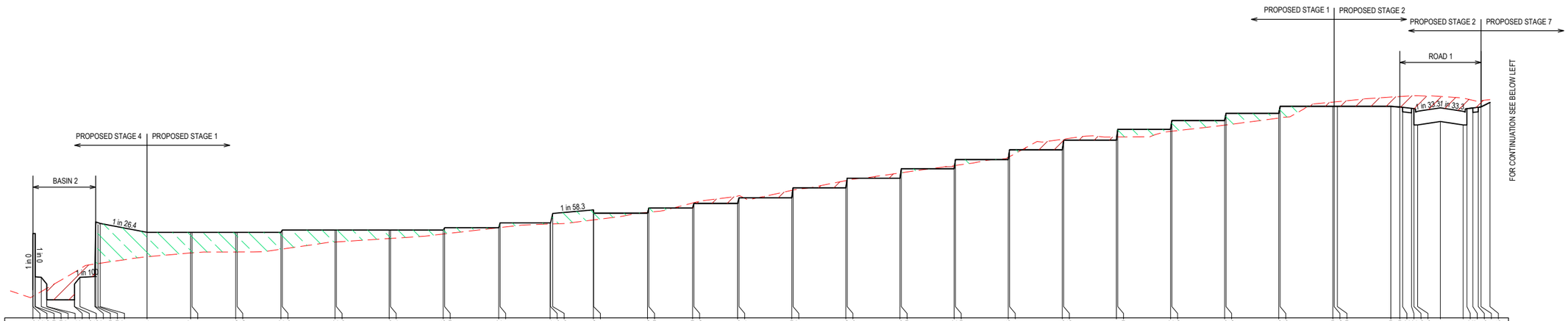
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | BULK EARTHWORKS<br>SECTION A |

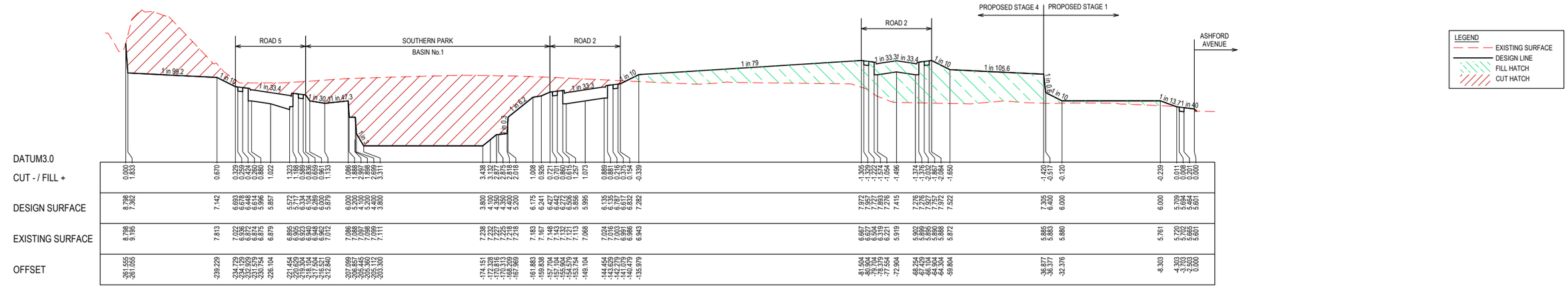
Sheet 31 of 145
Scale 1:500 H 1:100 V @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 071 | B |

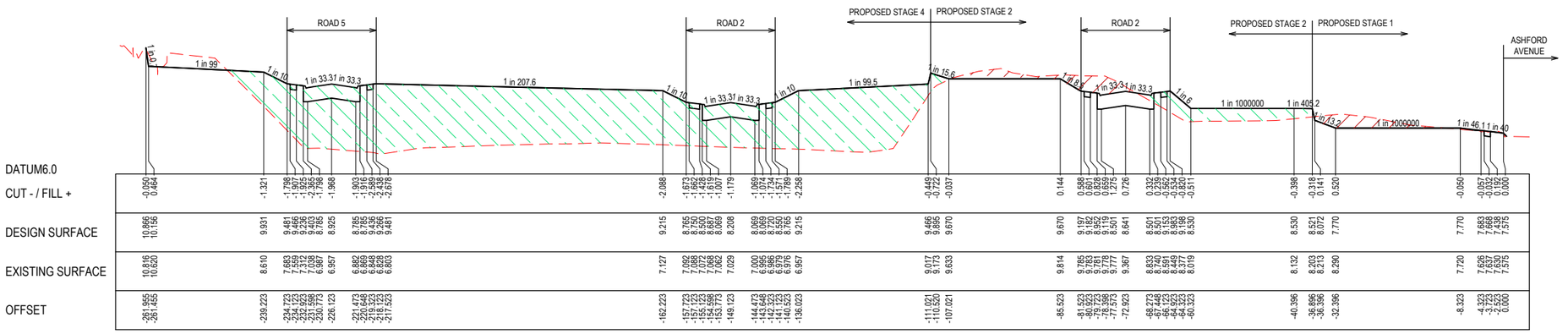
F:\synergytemp\12dSynergy\12dSynergyServerService\3192\e7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-070-BULK.dwg


PROPOSED STAGE 1
PROPOSED STAGE 2
PROPOSED STAGE 2
PROPOSED STAGE 7
ROAD 1
PROPOSED STAGE 4
PROPOSED STAGE 1
BASIN 2
1 in 0
0 in 1
1 in 26.4
1 in 10
1 in 58.3
1 in 33.31 in 33.3
FOR CONTINUATION SEE BELOW LEFT

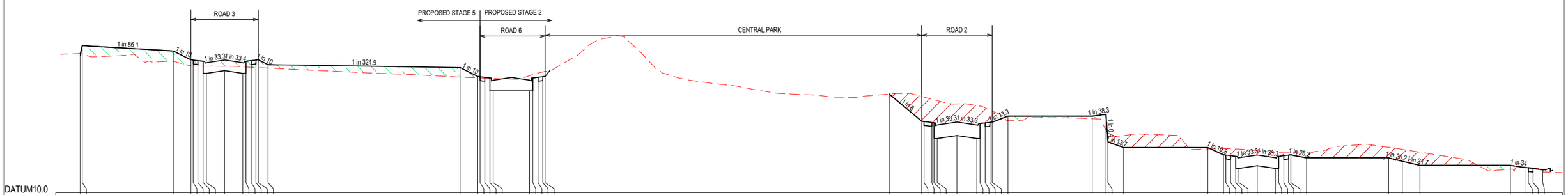
| | | |




SECTION C-C
CROSS SECTIONS




SECTION D-D
CROSS SECTIONS




SECTION E-E
CROSS SECTIONS

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

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| B | FINAL ISSUE FOR SSDA | 29.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

HORIZ 1:500 0 5 10 20 30
VERT 1:100 0 1 2 4 6
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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Development & Infrastructure Consultants
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ph: 02 46255055
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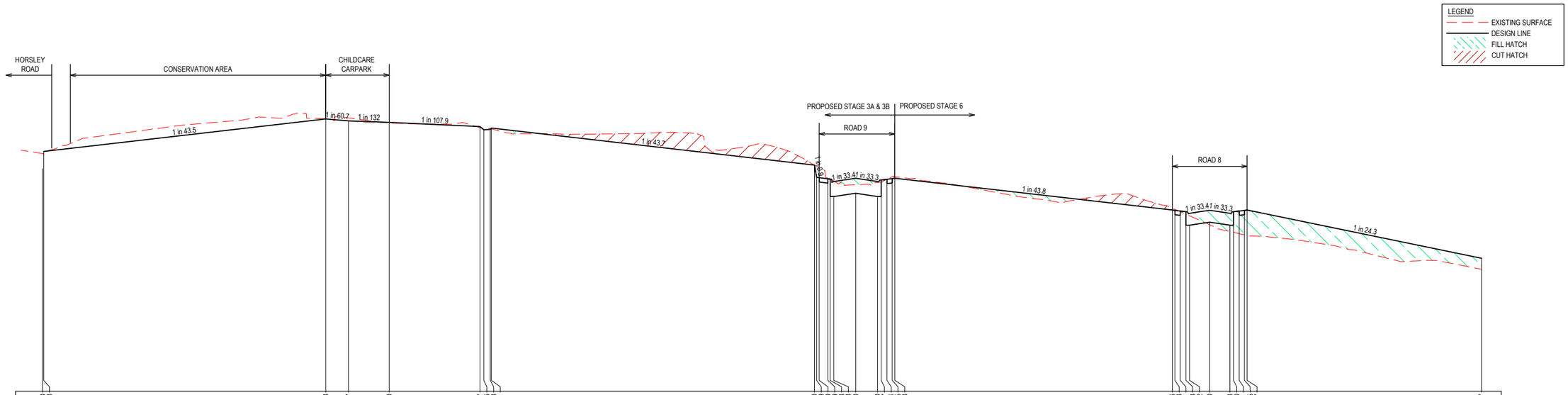
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: BULK EARTHWORKS SECTIONS C, D & E

Sheet 33 of 145
Scale 1:500 H 1:100 V @ A1

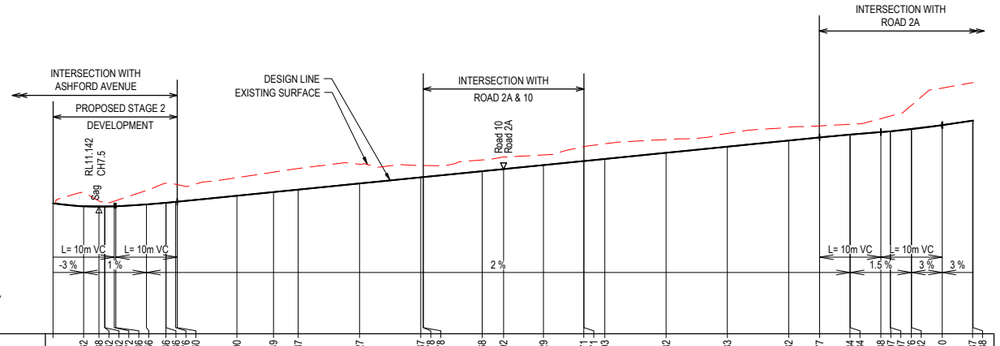
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 073 | B |

F:\synergyfiles\12dSynergy\12dSynergyServerService\3192ae7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-070-BULK.dwg


LEGEND
EXISTING SURFACE
DESIGN LINE
FILL HATCH
CUT HATCH
HORSLEY ROAD
CONSERVATION AREA
CHILDCARE CARPARK
PROPOSED STAGE 3A & 3B
PROPOSED STAGE 6
ROAD 9
ROAD 8
1 in 43.5
1 in 60.7
1 in 132
1 in 107.9
1 in 43.7
1 in 33.4
1 in 33.3
1 in 43.8
1 in 24.3

| | | |

LEGEND
EXISTING SURFACE
DESIGN LINE



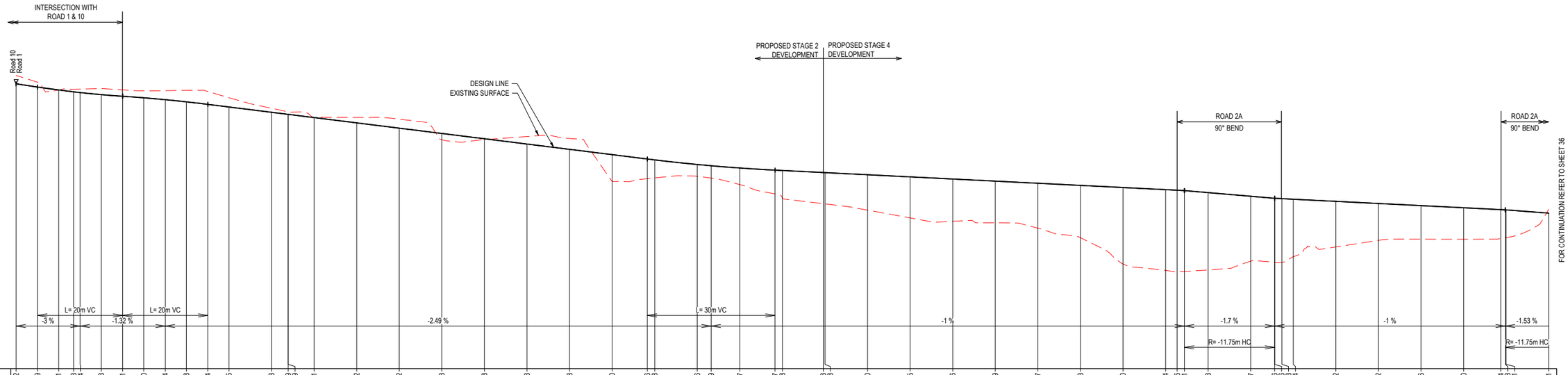

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL7

| CHAINAGE | 0.000 | 5.000 | 7.500 | 8.429 | 8.445 | 10.000 | 10.253 | 15.253 | 18.429 | 18.445 | 20.000 | 20.253 | 30.000 | 35.967 | 40.000 | 50.000 | 60.000 | 60.387 | 60.396 | 70.000 | 73.491 | 80.000 | 86.587 | 86.596 | 90.000 | 100.000 | 110.000 | 120.000 | 125.041 | 130.000 | 130.041 | 135.041 | 136.587 | 140.000 | 140.041 | 145.041 | 150.000 | 150.051 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | -0.462 | -0.188 | -0.132 | -0.132 | -0.172 | -0.186 | -0.456 | -0.636 | -0.636 | -0.575 | -0.560 | -0.590 | -0.649 | -0.687 | -0.627 | -0.387 | -0.378 | -0.378 | -0.368 | -0.392 | -0.329 | -0.471 | -0.471 | -0.493 | -0.432 | -0.433 | -0.432 | -0.377 | -0.334 | -0.334 | -0.438 | -0.497 | -0.576 | -0.782 | -1.210 | -1.237 | -1.238 |
| DESIGN CENTRELINE | 11.255 | 11.155 | 11.142 | 11.144 | 11.144 | 11.155 | 11.157 | 11.220 | 11.273 | 11.273 | 11.302 | 11.307 | 11.502 | 11.622 | 11.702 | 11.902 | 12.102 | 12.110 | 12.110 | 12.302 | 12.372 | 12.502 | 12.634 | 12.634 | 12.702 | 12.902 | 13.102 | 13.302 | 13.403 | 13.496 | 13.497 | 13.578 | 13.603 | 13.671 | 13.672 | 13.803 | 13.952 | 13.958 |
| EXISTING SURFACE | | 11.616 | 11.330 | 11.276 | 11.276 | 11.295 | 11.343 | 11.675 | 11.909 | 11.909 | 11.878 | 11.867 | 12.092 | 12.271 | 12.389 | 12.529 | 12.489 | 12.488 | 12.488 | 12.670 | 12.764 | 12.832 | 13.105 | 13.105 | 13.195 | 13.334 | 13.535 | 13.734 | 13.780 | 13.831 | 13.831 | 14.017 | 14.100 | 14.107 | 14.447 | 14.454 | 15.014 | 15.188 | 15.102 |

ROAD 1 LONGITUDINAL SECTION




VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL-1

| CHAINAGE | 0.000 | 5.041 | 10.000 | 13.504 | 15.041 | 20.000 | 25.041 | 30.000 | 35.041 | 40.000 | 45.041 | 50.000 | 60.000 | 63.896 | 63.904 | 70.000 | 80.000 | 90.000 | 100.000 | 110.000 | 120.000 | 130.000 | 140.000 | 148.265 | 150.000 | 160.000 | 163.265 | 170.000 | 178.265 | 180.000 | 189.609 | 190.000 | 200.000 | 210.000 | 220.000 | 230.000 | 240.000 | 250.000 | 260.000 | 270.000 | 272.723 | 274.451 | 280.000 | 290.000 | 295.630 | 296.651 | 297.340 | 300.000 | 310.000 | 320.000 | 330.000 | 340.000 | 348.734 | 349.801 | 350.000 | 360.000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | -0.392 | -0.229 | 0.001 | -0.123 | -0.164 | -0.283 | -0.301 | -0.330 | -0.424 | -0.538 | -0.604 | -0.435 | -0.188 | -0.119 | -0.119 | -0.011 | -0.252 | -0.422 | 0.293 | 0.048 | -0.353 | -0.508 | 1.260 | 0.926 | 0.848 | 0.556 | 0.579 | 0.777 | 1.117 | 1.288 | 1.463 | 1.468 | 1.660 | 1.925 | 1.986 | 1.959 | 2.107 | 2.453 | 3.590 | 3.794 | 3.825 | 3.791 | 3.633 | 3.047 | 3.016 | 2.983 | 2.704 | 2.142 | 1.732 | 1.576 | 1.480 | 1.354 | 1.308 | 1.301 | -0.181 |
| DESIGN CENTRELINE | 12.372 | 12.221 | 12.082 | 11.997 | 11.963 | 11.866 | 11.789 | 11.717 | 11.628 | 11.527 | 11.409 | 11.286 | 11.037 | 10.941 | 10.940 | 10.789 | 10.540 | 10.292 | 10.043 | 9.795 | 9.546 | 9.298 | 9.049 | 8.844 | 8.802 | 8.586 | 8.527 | 8.421 | 8.321 | 8.304 | 8.208 | 8.204 | 8.104 | 8.004 | 7.904 | 7.804 | 7.704 | 7.604 | 7.504 | 7.404 | 7.377 | 7.360 | 7.265 | 7.095 | 6.999 | 6.988 | 6.982 | 6.956 | 6.856 | 6.756 | 6.656 | 6.556 | 6.468 | 6.458 | 6.455 | 6.301 |
| EXISTING SURFACE | 12.764 | 12.450 | 12.082 | 12.121 | 12.127 | 12.149 | 12.090 | 12.047 | 12.052 | 12.065 | 12.013 | 11.721 | 11.225 | 11.059 | 11.059 | 10.800 | 10.732 | 10.714 | 9.750 | 9.747 | 9.900 | 9.806 | 7.789 | 7.918 | 7.954 | 8.031 | 7.947 | 7.644 | 7.205 | 7.016 | 6.745 | 6.736 | 6.444 | 6.079 | 5.918 | 5.845 | 5.597 | 5.151 | 3.914 | 3.610 | 3.552 | 3.568 | 3.632 | 4.048 | 3.983 | 3.983 | 3.999 | 4.252 | 4.714 | 5.024 | 5.080 | 5.075 | 5.114 | 5.149 | 5.153 | 6.483 |

ROAD 2A LONGITUDINAL SECTION

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

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0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

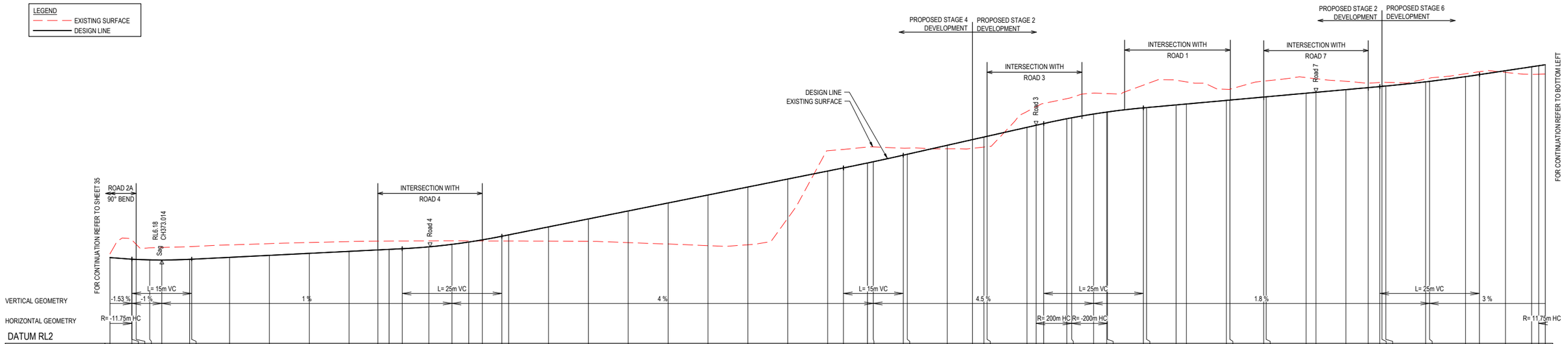
Drawing Title: ROAD LONGITUDINAL SECTIONS

Sheet 35 of 145

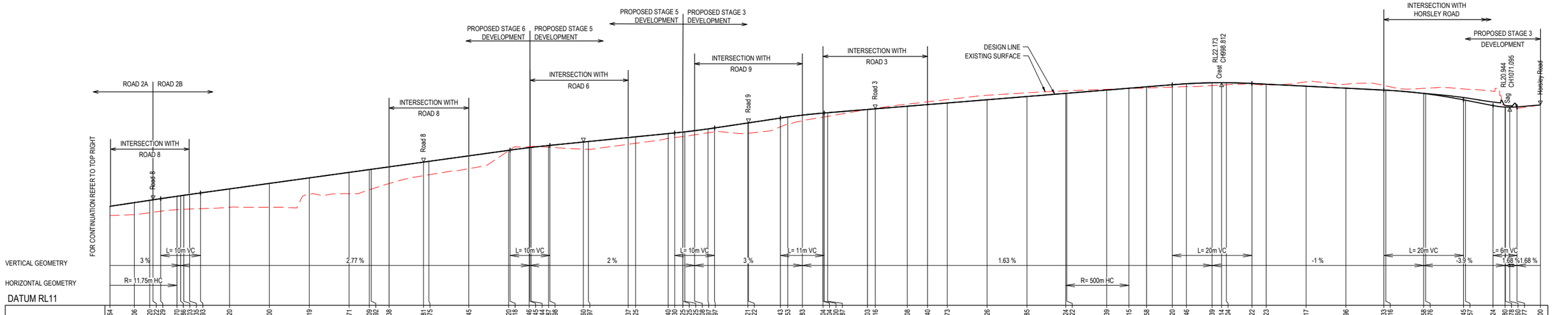
Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 101 | B |

F:\synergy\temp\12dSynergy\12dSynergyServerService\3192e7b132b3-de5d-411e-a345-45f57677ff7d\2301879-321-100-RLS.dwg




ROAD 2A LONGITUDINAL SECTION




ROAD 2A LONGITUDINAL SECTION ROAD 2B LONGITUDINAL SECTION ROAD 2B LONGITUDINAL SECTION

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|---|---|---|---|---|
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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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ph: 02 46255055
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

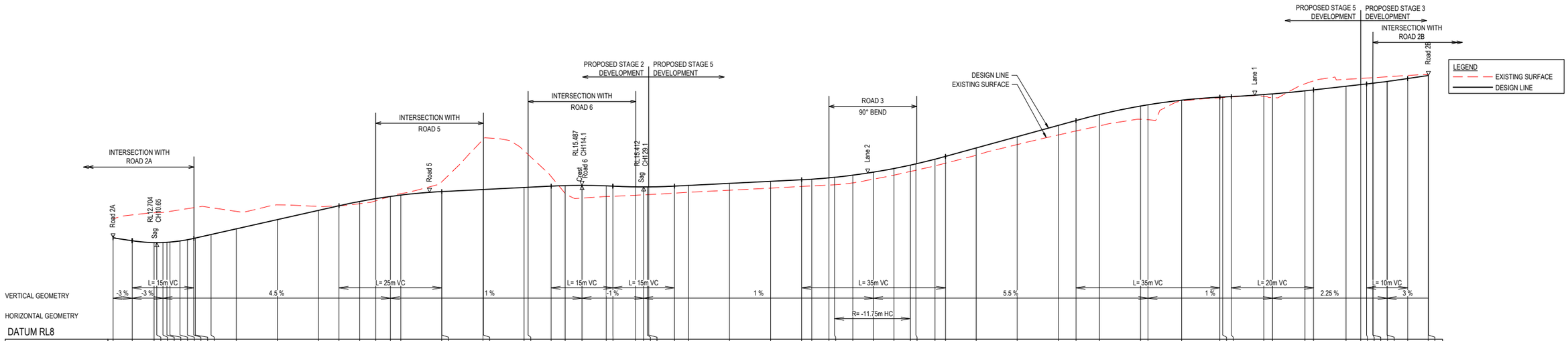
Drawing Title: ROAD LONGITUDINAL SECTIONS

Sheet 36 of 145

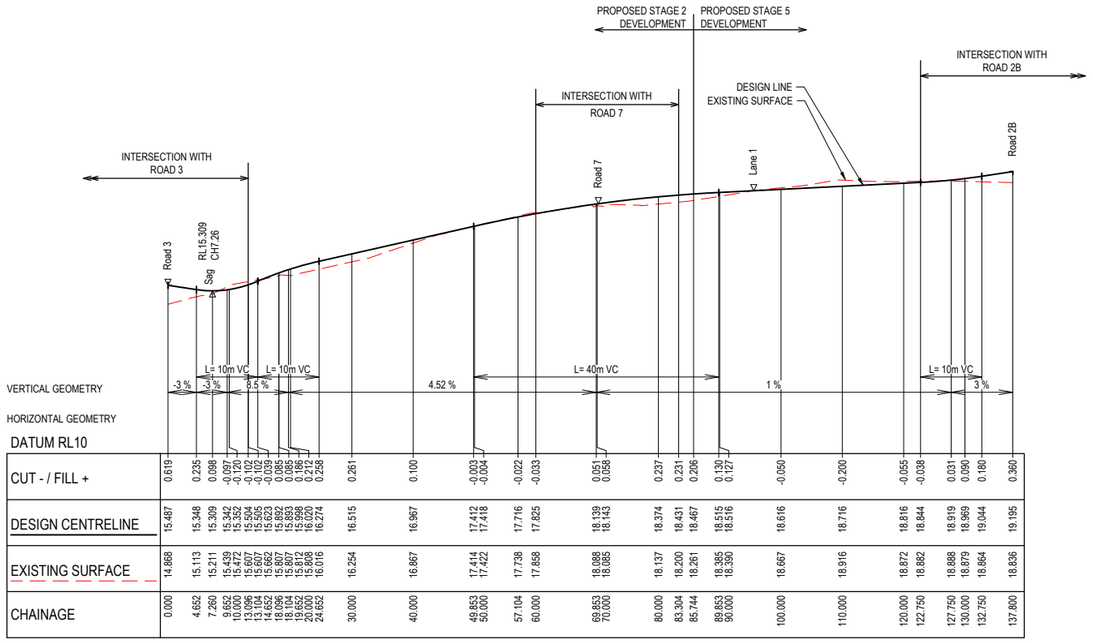
Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 102 | B |

F:\synergy\temp\12dSynergy\12dSynergyServerService\3192\e7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-100-RLS.dwg


PROPOSED STAGE 5 DEVELOPMENT
PROPOSED STAGE 3 DEVELOPMENT
INTERSECTION WITH ROAD 2B
Road 2B
LEGEND
EXISTING SURFACE
DESIGN LINE
PROPOSED STAGE 2 DEVELOPMENT
PROPOSED STAGE 5 DEVELOPMENT
DESIGN LINE EXISTING SURFACE
INTERSECTION WITH ROAD 6
INTERSECTION WITH ROAD 5
ROAD 3 90° BEND
INTERSECTION WITH ROAD 2A
Road 2A
RL12.704 CH10.65
Sag
Road 5
RL15.487 CH114.1
2nd Crest Road 6
RL15.412 CH129.1
Sag
Lane 2
Lane 1
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
L= 15m VC
L= 25m VC
L= 15m VC
L= 15m VC
L= 35m VC
L= 35m VC
L= 20m VC
L= 10m VC
-3 %
-3 %
4.5 %
1 %
-1 %
1 %
5.5 %
1 %
2.25 %
3 %
R= -11.75m HC
DATUM RL8

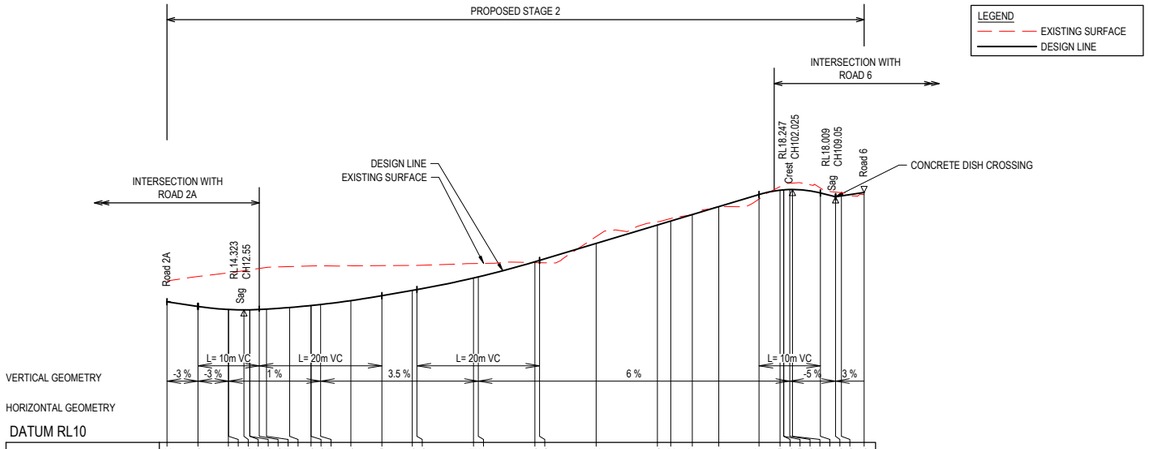
| | | |




DATUM RL10

| CHAINAGE | 0.000 | 4.652 | 7.260 | 9.652 | 10.000 | 13.104 | 14.652 | 15.000 | 18.104 | 19.652 | 20.000 | 24.652 | 30.000 | 40.000 | 49.853 | 50.000 | 57.104 | 60.000 | 69.853 | 70.000 | 80.000 | 83.304 | 85.744 | 89.853 | 90.000 | 100.000 | 110.000 | 120.000 | 122.750 | 127.750 | 130.000 | 132.750 | 137.800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING SURFACE | 14.868 | 15.113 | 15.211 | 15.439 | 15.472 | 15.607 | 15.622 | 15.807 | 15.893 | 15.812 | 15.808 | 16.016 | 16.254 | 16.867 | 17.414 | 17.422 | 17.738 | 17.858 | 18.088 | 18.085 | 18.137 | 18.200 | 18.261 | 18.385 | 18.380 | 18.667 | 18.916 | 18.872 | 18.882 | 18.888 | 18.879 | 18.864 | 18.836 |
| DESIGN CENTRELINE | 15.487 | 15.348 | 15.309 | 15.342 | 15.352 | 15.505 | 15.623 | 15.892 | 15.998 | 16.020 | 16.016 | 16.274 | 16.515 | 16.967 | 17.412 | 17.418 | 17.716 | 17.825 | 18.139 | 18.143 | 18.374 | 18.431 | 18.467 | 18.515 | 18.516 | 18.616 | 18.716 | 18.816 | 18.844 | 18.919 | 18.969 | 19.044 | 19.195 |
| CUT - / FILL + | 0.619 | 0.235 | 0.098 | -0.097 | -0.120 | -0.102 | -0.039 | 0.085 | 0.105 | 0.186 | 0.212 | 0.258 | 0.261 | 0.100 | -0.003 | -0.004 | -0.022 | -0.033 | 0.051 | 0.058 | 0.237 | 0.231 | 0.206 | 0.130 | 0.127 | -0.050 | -0.200 | -0.055 | -0.038 | 0.031 | 0.090 | 0.180 | 0.360 |

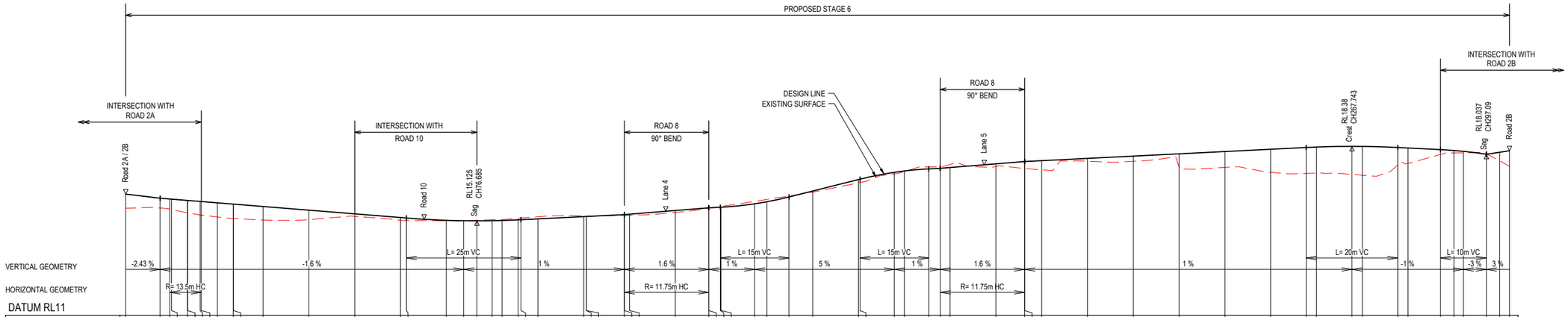
ROAD 6 LONGITUDINAL SECTION




DATUM RL10

| CHAINAGE | 0.000 | 5.050 | 10.000 | 10.050 | 12.550 | 13.946 | 15.050 | 16.241 | 20.000 | 23.496 | 23.504 | 25.050 | 30.000 | 35.050 | 40.000 | 40.774 | 50.000 | 50.774 | 60.000 | 60.774 | 70.000 | 80.000 | 82.162 | 85.681 | 85.861 | 90.000 | 96.571 | 100.000 | 100.696 | 101.571 | 102.025 | 105.513 | 109.050 | 110.000 | 113.700 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING SURFACE | 15.268 | 15.411 | 15.528 | 15.529 | 15.598 | 15.627 | 15.673 | 15.709 | 15.752 | 15.752 | 15.759 | 15.762 | 15.765 | 15.765 | 15.771 | 15.774 | 15.832 | 15.835 | 15.864 | 15.861 | 16.711 | 17.194 | 17.301 | 17.423 | 17.693 | 17.936 | 18.343 | 18.404 | 18.452 | 18.458 | 18.247 | 18.153 | 18.162 | 18.144 | 18.081 |
| DESIGN CENTRELINE | 14.586 | 14.435 | 14.336 | 14.335 | 14.323 | 14.324 | 14.335 | 14.348 | 14.400 | 14.464 | 14.464 | 14.498 | 14.624 | 14.785 | 14.968 | 14.965 | 15.361 | 15.398 | 15.889 | 15.935 | 16.489 | 17.089 | 17.219 | 17.430 | 17.689 | 18.083 | 18.224 | 18.236 | 18.246 | 18.247 | 18.153 | 18.009 | 18.038 | 18.149 | |
| CUT - / FILL + | -0.682 | -0.976 | -1.193 | -1.194 | -1.276 | -1.302 | -1.338 | -1.361 | -1.334 | -1.288 | -1.288 | -1.261 | -1.138 | -0.980 | -0.813 | -0.788 | -0.471 | -0.437 | 0.026 | 0.075 | -0.222 | -0.105 | -0.082 | 0.007 | -0.004 | 0.147 | -0.119 | -0.169 | -0.206 | -0.211 | -0.153 | -0.153 | -0.106 | 0.068 | |

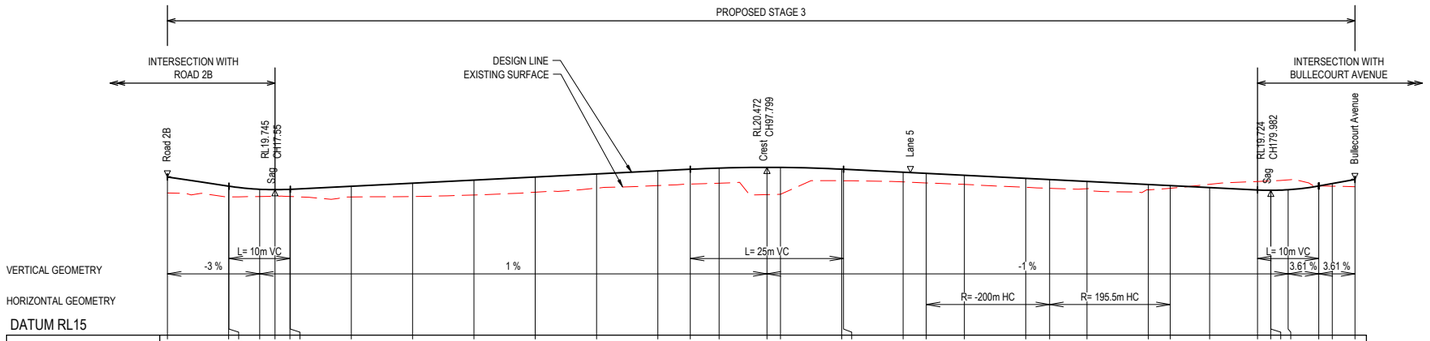
ROAD 7 LONGITUDINAL SECTION




DATUM RL11

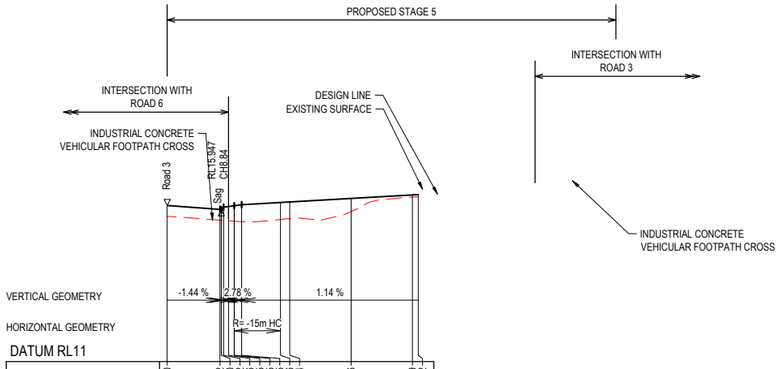
| CHAINAGE | 0.000 | 7.499 | 8.630 | 10.000 | 13.496 | 16.241 | 20.000 | 23.496 | 23.504 | 30.000 | 40.000 | 50.000 | 60.000 | 67.285 | 70.000 | 73.785 | 76.685 | 80.000 | 82.162 | 85.681 | 86.285 | 90.000 | 100.000 | 100.596 | 100.604 | 108.863 | 108.867 | 110.000 | 120.000 | 127.322 | 127.323 | 128.823 | 130.000 | 137.323 | 140.000 | 144.823 | 150.000 | 160.000 | 160.333 | 167.833 | 170.000 | 175.333 | 177.833 | 180.000 | 190.000 | 196.286 | 196.287 | 200.000 | 210.000 | 220.000 | 230.000 | 240.000 | 250.000 | 257.743 | 260.000 | 267.743 | 270.000 | 277.743 | 280.000 | 287.090 | 290.000 | 292.090 | 297.090 | 300.000 | 302.140 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

LEGEND
EXISTING SURFACE
DESIGN LINE




DATUM RL15

| | | |


PROPOSED STAGE 5
INTERSECTION WITH ROAD 6
INTERSECTION WITH ROAD 3
DESIGN LINE
EXISTING SURFACE
INDUSTRIAL CONCRETE VEHICULAR FOOTPATH CROSS
Road 3
RL15.947
CH8.84
Sag
INDUSTRIAL CONCRETE VEHICULAR FOOTPATH CROSS
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
-1.44 %
2.78 %
1.14 %
R= -15m HC

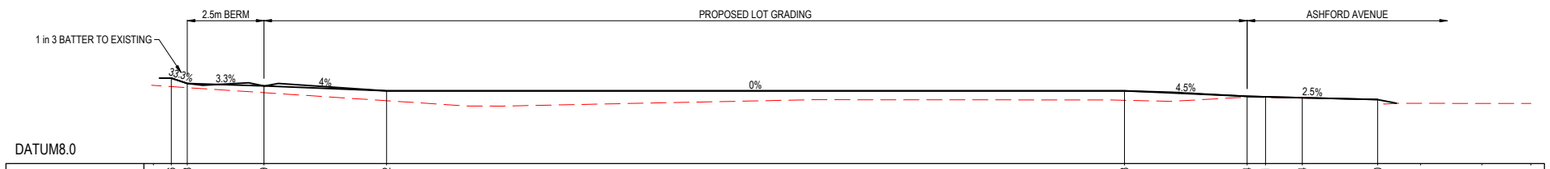
DATUM RL11

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



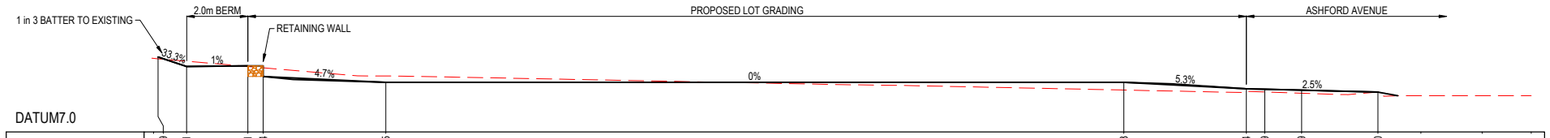

DATUM8.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



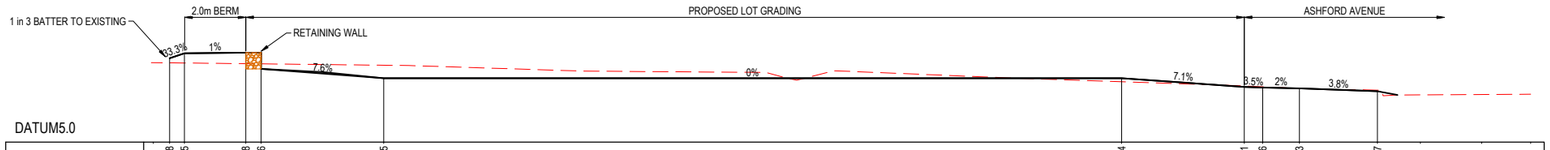

DATUM7.0

| | | |

LEGEND

EXISTING SURFACE

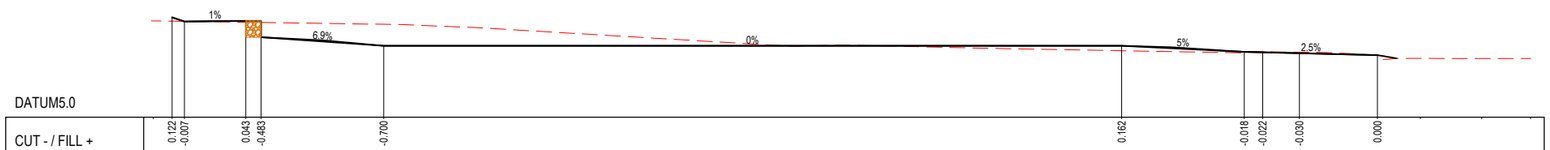
DESIGN SURFACE




DATUM5.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 0.148 | 0.315 | 0.358 | -0.166 | -0.425 | 0.114 | -0.031 | -0.026 | 0.003 | -0.037 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 7.732 | 7.894 | 7.914 | 7.384 | 7.080 | 7.080 | 6.798 | 6.777 | 6.753 | 6.656 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 7.591 | 7.584 | 7.578 | 7.556 | 7.550 | 7.505 | 6.966 | 6.829 | 6.803 | 6.750 | 6.693 | 6.534 | 6.537 | 6.540 | | | | | | | | | | |
| OFFSET | -40.000 | -39.403 | -38.919 | -36.919 | -36.419 | -32.419 | -8.346 | -4.346 | -3.746 | -2.545 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | |

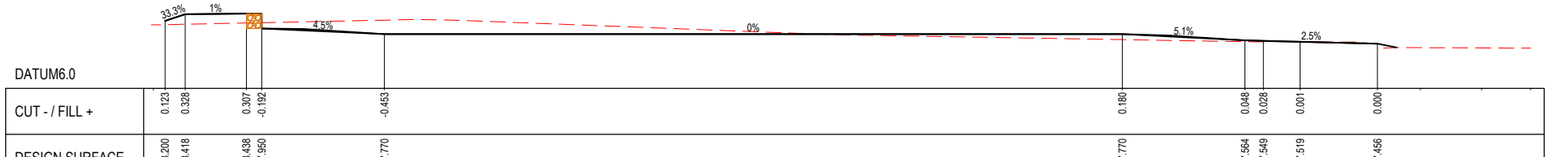
LOT 1112 CH 147.610




DATUM5.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 0.122 | -0.007 | 0.043 | -0.483 | -0.700 | 0.162 | -0.018 | -0.022 | -0.030 | 0.000 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 8.255 | 8.120 | 8.140 | 7.606 | 7.330 | 7.330 | 7.132 | 7.117 | 7.087 | 7.023 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 8.143 | 8.133 | 8.127 | 8.097 | 8.090 | 8.030 | 7.168 | 7.150 | 7.139 | 7.117 | 7.023 | 6.910 | 6.899 | 6.890 | | | | | | | | | | |
| OFFSET | -40.000 | -39.323 | -38.918 | -36.918 | -36.418 | -32.418 | -8.345 | -4.345 | -3.745 | -2.545 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | |

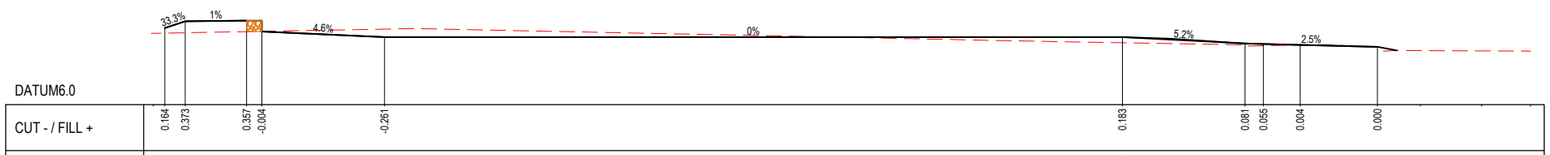
LOT 1111 CH 136.431




DATUM6.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 0.123 | 0.328 | 0.307 | -0.192 | -0.453 | 0.180 | 0.048 | 0.028 | 0.001 | 0.000 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 8.200 | 8.418 | 8.438 | 7.950 | 7.770 | 7.770 | 7.564 | 7.549 | 7.519 | 7.456 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 8.068 | 8.077 | 8.091 | 8.131 | 8.142 | 8.223 | 7.590 | 7.516 | 7.521 | 7.518 | 7.456 | 7.320 | 7.301 | 7.287 | | | | | | | | | | |
| OFFSET | -40.000 | -39.551 | -38.897 | -36.897 | -36.397 | -32.397 | -8.324 | -4.324 | -3.724 | -2.524 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | |

LOT 1110 CH 124.480




DATUM6.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 0.164 | 0.373 | 0.357 | -0.004 | -0.261 | 0.183 | 0.081 | 0.055 | 0.004 | 0.000 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 8.495 | 8.716 | 8.736 | 8.385 | 8.200 | 8.200 | 7.992 | 7.977 | 7.947 | 7.884 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 8.323 | 8.331 | 8.343 | 8.380 | 8.389 | 8.461 | 8.017 | 7.911 | 7.922 | 7.943 | 7.884 | 7.754 | 7.735 | 7.719 | | | | | | | | | | |
| OFFSET | -40.000 | -39.558 | -38.894 | -36.894 | -36.394 | -32.394 | -8.321 | -4.321 | -3.721 | -2.521 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | |

LOT 1109 CH 112.480

ASHFORD AVENUE - ROAD CROSS SECTIONS

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 29.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ. 1:100 0 1 2 4 6

VERT. 1:50 0 0.5 1 2 3

SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | ROAD CROSS SECTIONS STAGE 1 - ASHFORD AVENUE (SHEET 3 OF 6) |

Sheet 43 of 145

Scale 1:100 H 1:50 V @ A1

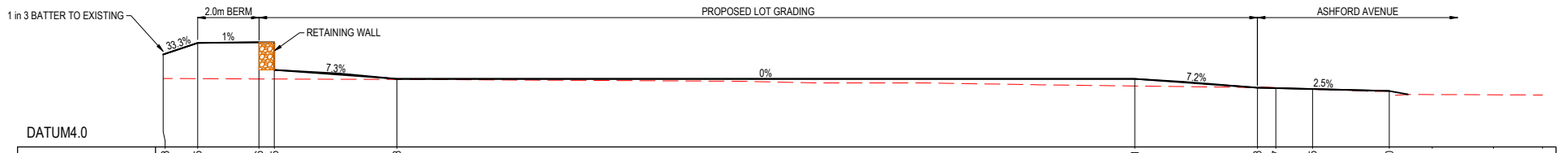
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 202 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192\e7b132b3-de5d-411e-a345-45f57677ff7d\2301879-321-200-RXS.dwg

LEGEND

EXISTING SURFACE

DESIGN SURFACE



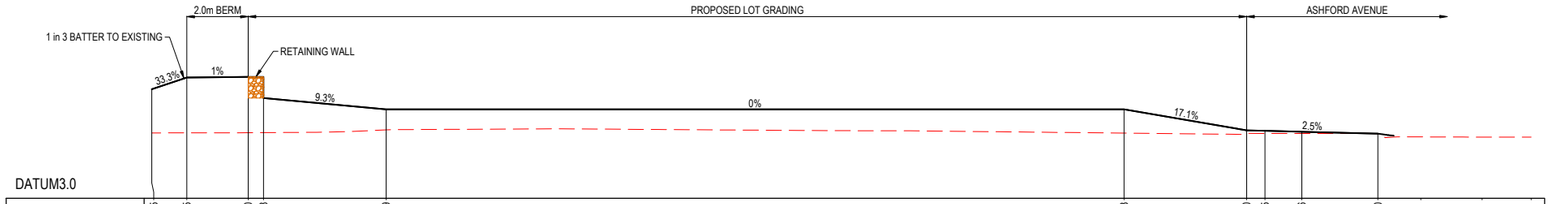

DATUM4.0

| | | |

LEGEND

EXISTING SURFACE

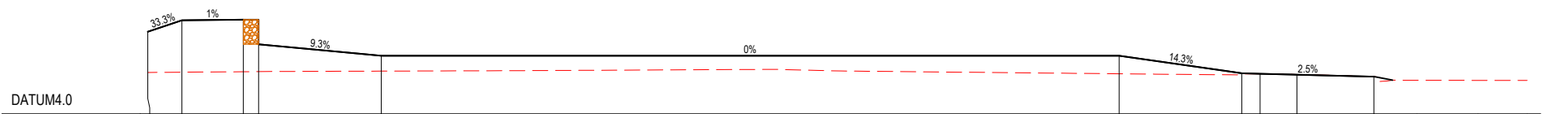
DESIGN SURFACE




DATUM3.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.425 | 1.805 | 1.820 | 1.128 | 0.669 | 0.773 | 0.100 | 0.085 | 0.056 | 0.000 | | | | | | | | | | | | |
| DESIGN SURFACE | 6.658 | 6.940 | 6.960 | 6.271 | 5.900 | 5.900 | 5.216 | 5.201 | 5.171 | 5.109 | | | | | | | | | | | | |
| EXISTING SURFACE | 5.133 | 5.135 | 5.140 | 5.143 | 5.231 | 5.127 | 5.117 | 5.116 | 5.115 | 5.109 | 5.002 | 4.994 | 4.991 | | | | | | | | | |
| OFFSET | -40.000 | -38.855 | -36.856 | -36.356 | -32.356 | -8.283 | -4.283 | -3.683 | -2.483 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | |

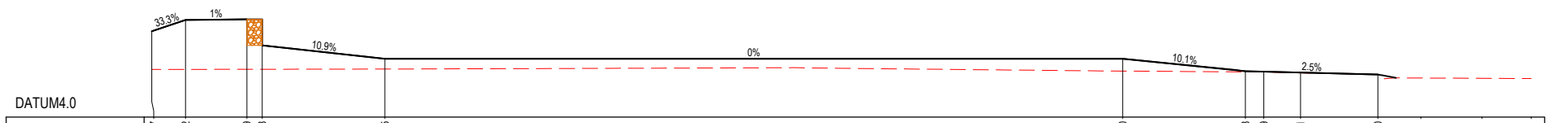
LOT 1205 CH 237.595




DATUM4.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.329 | 1.692 | 1.697 | 0.891 | 0.503 | 0.589 | 0.022 | 0.000 | -0.005 | 0.000 | | | | | | | | | | | | |
| DESIGN SURFACE | 6.683 | 7.055 | 7.075 | 6.272 | 5.900 | 5.900 | 5.326 | 5.311 | 5.281 | 5.219 | | | | | | | | | | | | |
| EXISTING SURFACE | 5.354 | 5.363 | 5.377 | 5.381 | 5.397 | 5.311 | 5.304 | 5.311 | 5.287 | 5.219 | 5.097 | 5.090 | 5.084 | | | | | | | | | |
| OFFSET | -40.000 | -38.865 | -36.886 | -36.386 | -32.385 | -8.312 | -4.312 | -3.712 | -2.512 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | |

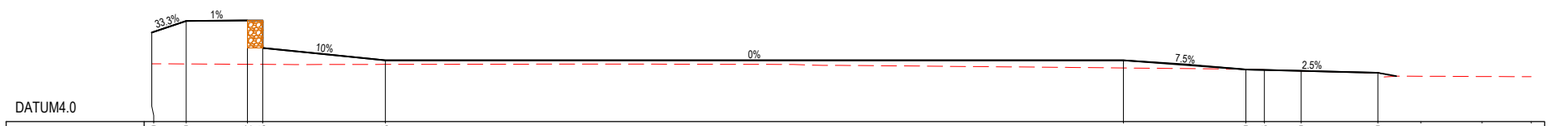
LOT 1204 CH 225.620




DATUM4.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.247 | 1.612 | 1.629 | 0.778 | 0.335 | 0.400 | 0.008 | 0.009 | 0.011 | 0.000 | | | | | | | | | | | | |
| DESIGN SURFACE | 6.799 | 7.166 | 7.187 | 6.336 | 5.900 | 5.900 | 5.496 | 5.481 | 5.451 | 5.387 | | | | | | | | | | | | |
| EXISTING SURFACE | 5.552 | 5.554 | 5.557 | 5.558 | 5.565 | 5.500 | 5.487 | 5.472 | 5.440 | 5.387 | 5.270 | 5.256 | 5.244 | | | | | | | | | |
| OFFSET | -40.000 | -38.898 | -36.898 | -36.398 | -32.398 | -8.325 | -4.325 | -3.725 | -2.525 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | |

LOT 1203 CH 213.604




DATUM4.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.020 | 1.400 | 1.432 | 0.535 | 0.135 | 0.251 | -0.009 | -0.006 | 0.000 | 0.000 | | | | | | | | | | | | |
| DESIGN SURFACE | 6.905 | 7.279 | 7.299 | 6.400 | 6.000 | 6.000 | 5.698 | 5.683 | 5.653 | 5.591 | | | | | | | | | | | | |
| EXISTING SURFACE | 5.885 | 5.879 | 5.868 | 5.865 | 5.865 | 5.749 | 5.708 | 5.689 | 5.653 | 5.591 | 5.475 | 5.461 | 5.450 | | | | | | | | | |
| OFFSET | -40.000 | -38.878 | -36.878 | -36.378 | -32.378 | -8.305 | -4.305 | -3.705 | -2.505 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | |

LOT 1202 CH 201.549

ASHFORD AVENUE - ROAD CROSS SECTIONS

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| REV | DESCRIPTION | DATE | DRN. | APP. |
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| B | FINAL ISSUE FOR SSDA | 29.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ. 1:100 0 1 2 4 6

VERT. 1:50 0 0.5 1 2 3

SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
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www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: ROAD CROSS SECTIONS
STAGE 1 - ASHFORD AVENUE
(SHEET 5 OF 6)

Sheet 45 of 145

Scale 1:100 H 1:50 V @ A1

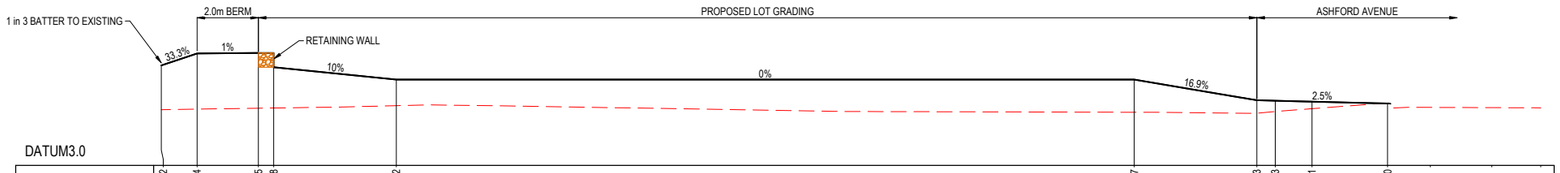
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 204 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192fe7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-200-RXS.dwg

LEGEND

EXISTING SURFACE

DESIGN SURFACE



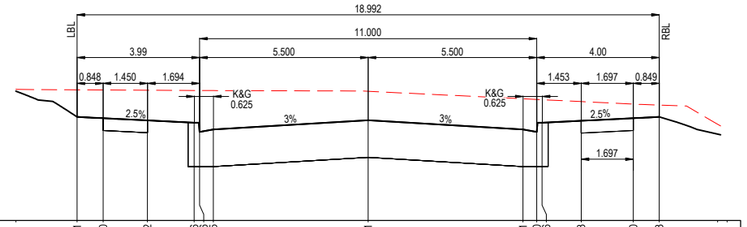

DATUM3.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



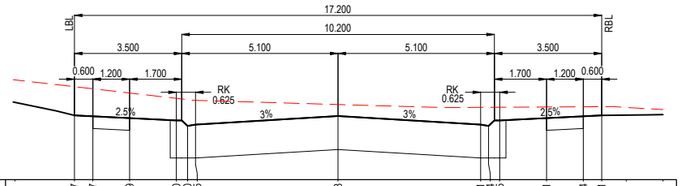

DATUM11.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



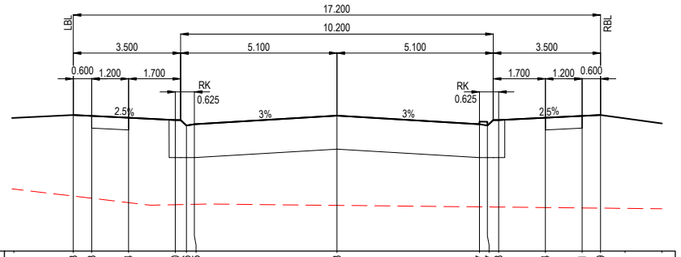

DATUM10.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



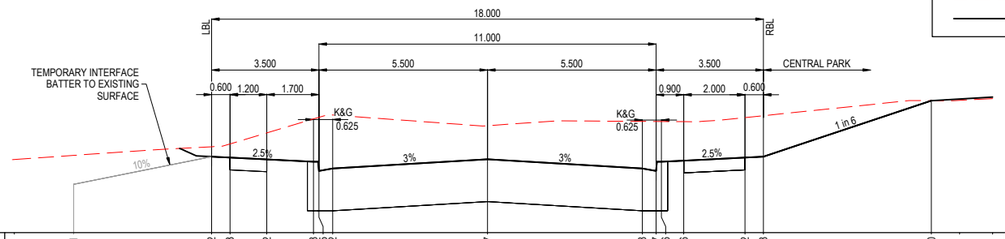

DATUM6.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



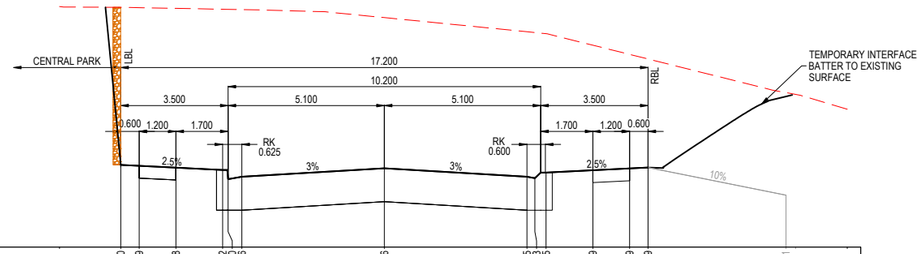

DATUM13.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



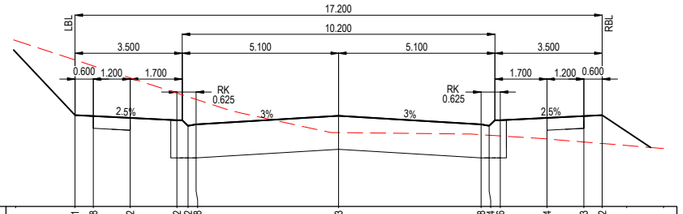

DATUM14.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



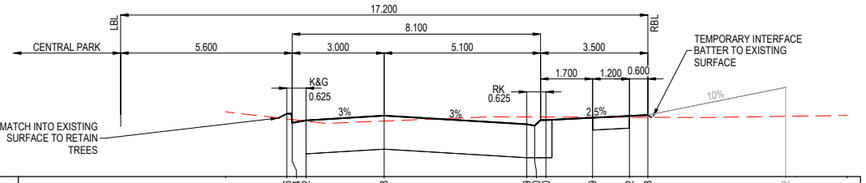

DATUM13.0

| | | |

LEGEND

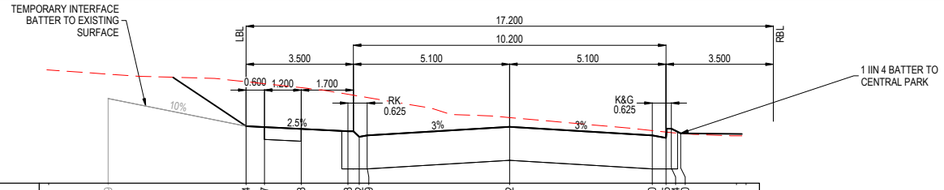
EXISTING SURFACE

DESIGN SURFACE




DATUM16.0

| | | |


TEMPORARY INTERFACE
BATTER TO EXISTING
SURFACE
LBL
RBL
17.200
10.200
3.500
5.100
5.100
3.500
0.600
1.200
1.700
RK
0.625
K&G
0.625
10%
2.5%
3%
3%
1 IIN 4 BATTER TO
CENTRAL PARK

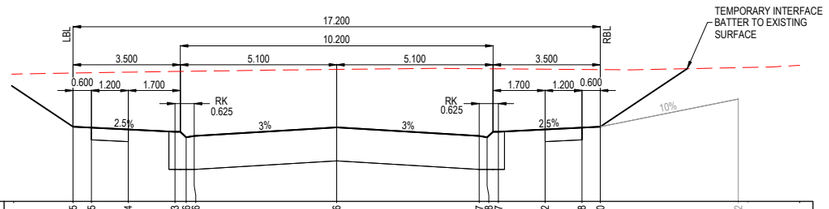
DATUM16.0

| | | |

LEGEND

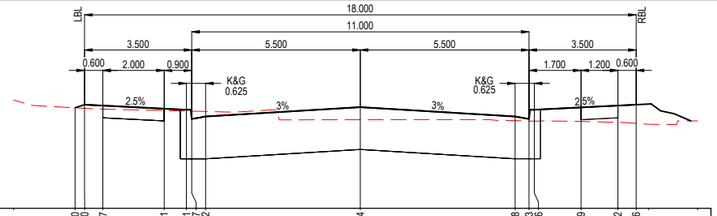
EXISTING SURFACE

DESIGN SURFACE




DATUM11.0

| | | |


LBL
RBL
18.000
11.000
3.500
5.500
5.500
3.500
0.600
2.000
0.900
1.700
1.200
0.600
K&G
0.625
K&G
0.625
2.5%
3%
3%
2.5%

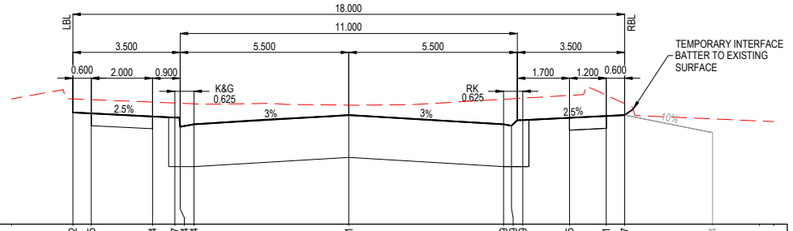
DATUM19.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



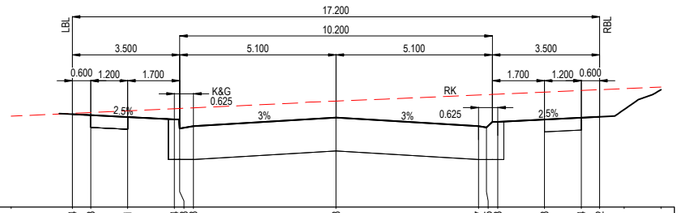

DATUM20.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



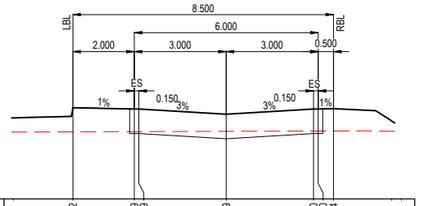

DATUM19.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



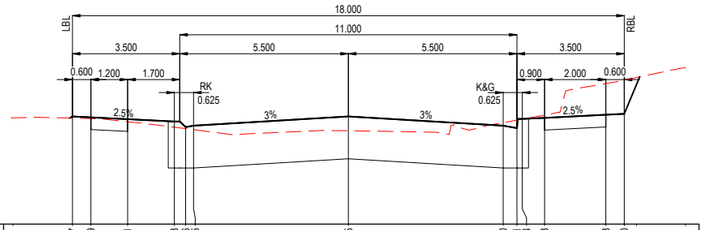

DATUM19.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



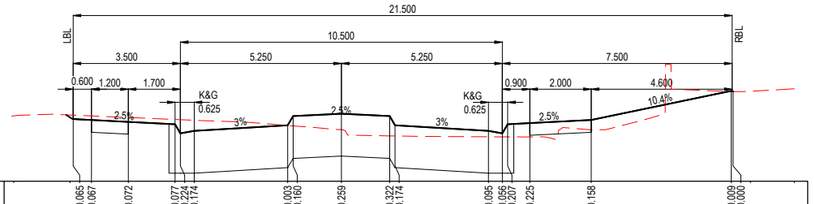

DATUM18.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



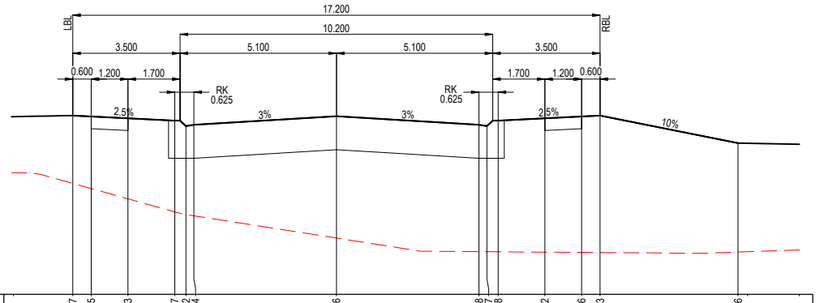

DATUM19.0

| | | |

LEGEND

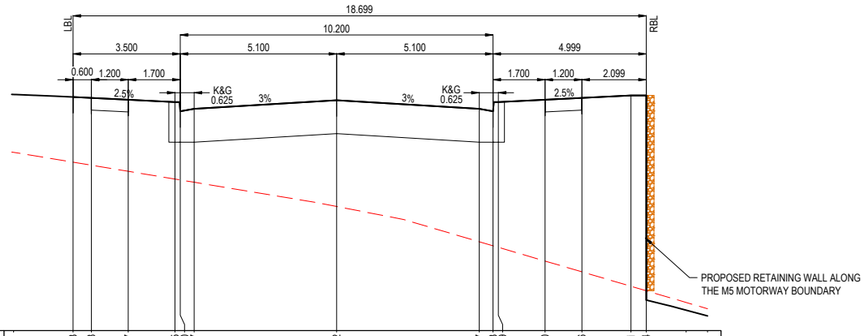
EXISTING SURFACE

DESIGN SURFACE




DATUM5.0

| | | |


LBL
RBL
18.699
10.200
3.500
5.100
5.100
4.999
0.600
1.200
1.700
1.700
1.200
2.099
2.5%
K&G
0.625
3%
3%
K&G
0.625
2.5%
PROPOSED RETAINING WALL ALONG
THE M5 MOTORWAY BOUNDARY

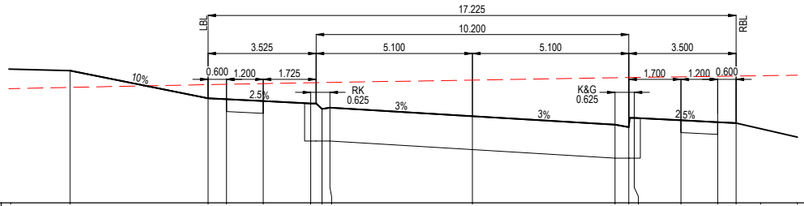
DATUM3.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



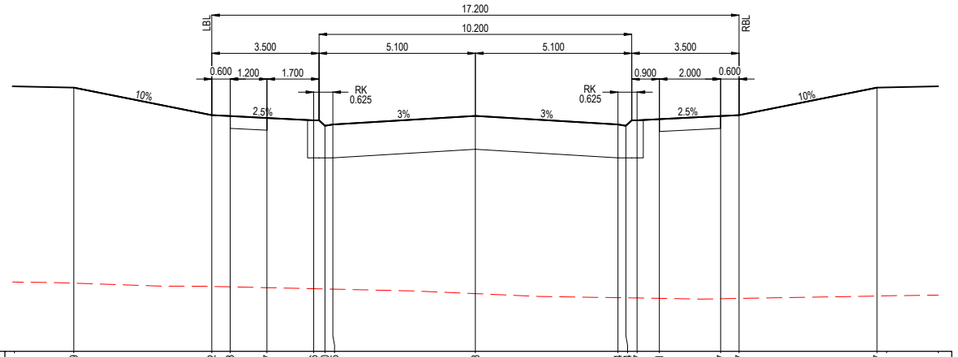

DATUM5.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



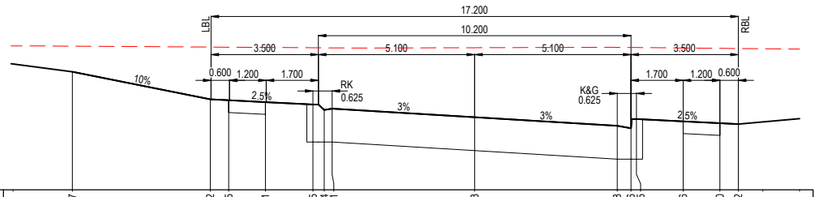

DATUM6.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



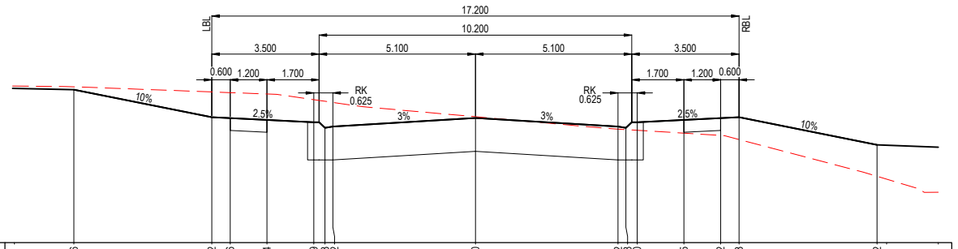

DATUM5.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



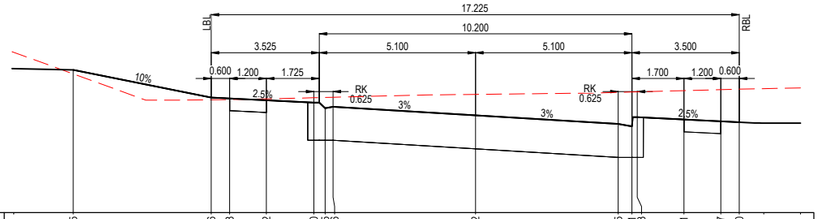

DATUM11.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



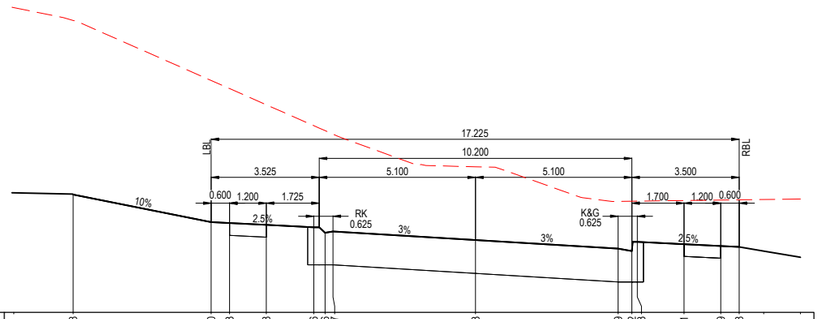

DATUM5.0

| | | |

LEGEND

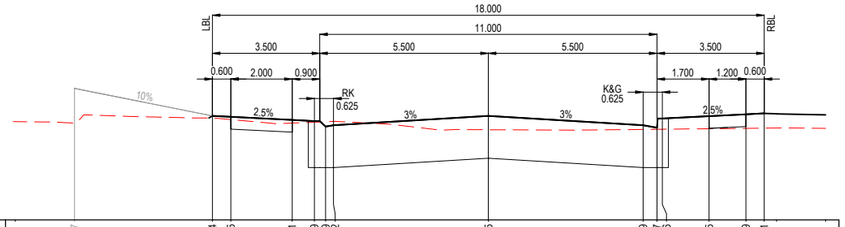
EXISTING SURFACE

DESIGN SURFACE




DATUM5.0

| | | |


LBL
RBL
18.000
11.000
3.500
5.500
5.500
3.500
0.600
2.000
0.900
RK
0.625
K&G
0.625
1.700
1.200
0.600
10%
2.5%
3%
3%
2.5%

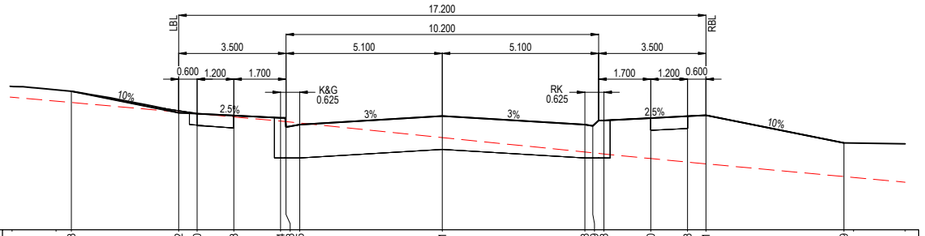
DATUM18.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



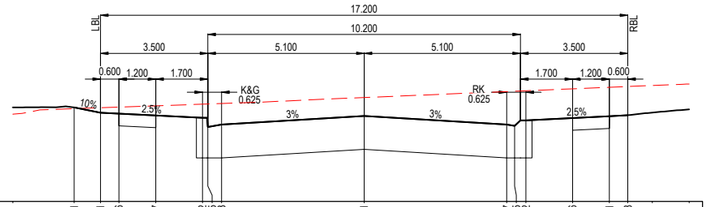

DATUM14.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



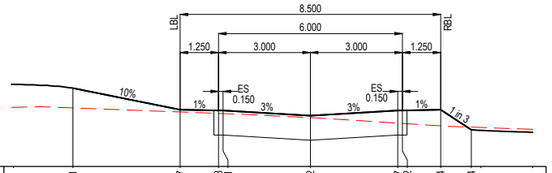

DATUM19.0

| | | |

LEGEND

EXISTING SURFACE

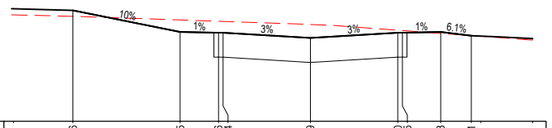
DESIGN SURFACE




DATUM19.0

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | 0.321 | | 0.037 | 0.048<br>0.051 | 0.032 | | 0.207<br>0.212 | 0.264 | -0.044 | | | | |
| DESIGN SURFACE | | 20.275 | | 19.925 | 19.912<br>19.912 | 19.827 | | 19.912<br>19.912 | 19.925 | 19.596 | | | | |
| EXISTING SURFACE | 19.963 | 19.953 | | 19.887 | 19.864<br>19.861 | 19.795 | | 19.705<br>19.701 | 19.661 | 19.640<br>19.637 | | 19.603 | | |
| OFFSET | -9.750 | -7.750 | | -4.250 | -3.000<br>-2.850 | 0.000 | | 2.850<br>3.000 | 4.250 | 5.250<br>5.400 | | 7.250 | | |

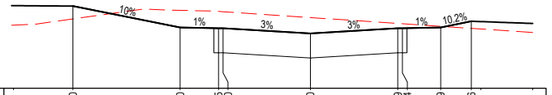
CH 60.000




DATUM18.0

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | 0.096 | | -0.195 | -0.186<br>-0.184 | -0.219 | | -0.040<br>-0.035 | 0.023 | -0.001 | | | | |
| DESIGN SURFACE | | 19.807 | | 19.457 | 19.445<br>19.445 | 19.359 | | 19.445<br>19.445 | 19.457 | 19.396 | | | | |
| EXISTING SURFACE | 19.736 | 19.711 | | 19.652 | 19.631<br>19.629 | 19.578 | | 19.485<br>19.480 | 19.434 | 19.397<br>19.392 | | 19.326 | | |
| OFFSET | -9.750 | -7.750 | | -4.250 | -3.000<br>-2.850 | 0.000 | | 2.850<br>3.000 | 4.250 | 5.250<br>5.400 | | 7.250 | | |

CH 40.000




DATUM18.0

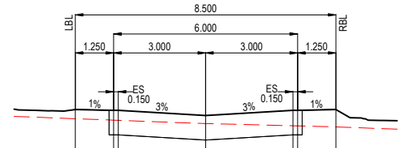
| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | 0.210 | | -0.280 | -0.275<br>-0.270 | -0.260 | | -0.079<br>-0.074 | -0.019 | 0.116 | | | | |
| DESIGN SURFACE | | 19.340 | | 18.990 | 18.977<br>18.977 | 18.892 | | 18.977<br>18.977 | 18.990 | 19.092 | | | | |
| EXISTING SURFACE | 19.027 | 19.130 | | 19.270 | 19.252<br>19.247 | 19.152 | | 19.056<br>19.051 | 19.009 | 18.976<br>18.971 | | 18.907 | | |
| OFFSET | -9.750 | -7.750 | | -4.250 | -3.000<br>-2.850 | 0.000 | | 2.850<br>3.000 | 4.250 | 5.250<br>5.400 | | 7.250 | | |

CH 20.000

DATUM18.0

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | | 0.018 | 0.027<br>0.029 | -0.135 | | -0.110<br>-0.106 | -0.058 | | | | | |
| DESIGN SURFACE | | | | 18.726 | 18.713<br>18.713 | 18.628 | | 18.713<br>18.713 | 18.726 | | | | | |
| EXISTING SURFACE | | 18.752 | | 18.714<br>18.708 | 18.687<br>18.684 | 18.763 | | 18.824<br>18.820 | 18.784 | 18.719 | | 18.668 | | |
| OFFSET | -6.250 | | -4.600<br>-4.250 | | -3.000<br>-2.850 | 0.000 | | 2.850<br>3.000 | 4.250 | 5.400 | | 6.250 | | |

CH 8.699




DATUM19.0

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | | 0.150 | 0.161<br>0.164 | 0.130 | | 0.253<br>0.254 | 0.283 | | | | | |
| DESIGN SURFACE | | | | 20.030 | 20.017<br>20.017 | 19.932 | | 20.017<br>20.017 | 20.030 | | | | | |
| EXISTING SURFACE | | 19.918 | | 19.887<br>19.880 | 19.857<br>19.854 | 19.801 | | 19.765<br>19.763 | 19.746 | 19.725 | | 19.710 | | |
| OFFSET | -6.250 | | -4.600<br>-4.250 | | -3.000<br>-2.850 | 0.000 | | 2.850<br>3.000 | 4.250 | 5.400 | | 6.250 | | |

CH 64.499

LANE 1 - ROAD CROSS SECTIONS

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 29.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ. 1:100 0 1 2 4 6

VERT. 1:50 0 0.5 1 2 3

SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND<br>LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | ROAD CROSS SECTIONS<br>STAGE 5 - LANE 1 |

Sheet 73 of 145

Scale 1:100 H 1:50 V @ A1

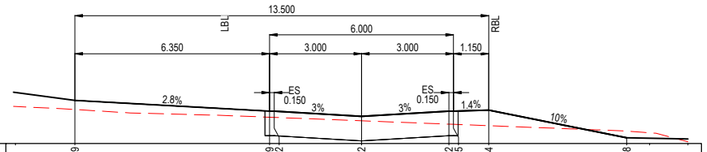
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 232 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192e7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-200-RXS.dwg

LEGEND

EXISTING SURFACE

DESIGN SURFACE



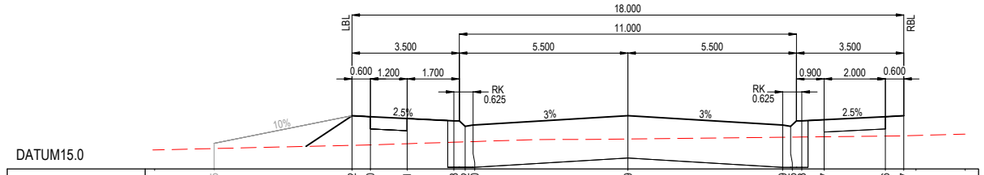

DATUM16.0

| | | |

LEGEND

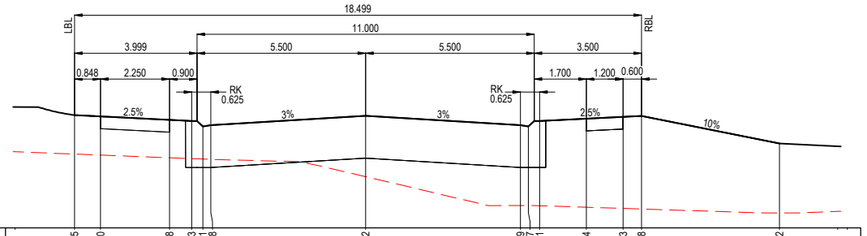
EXISTING SURFACE

DESIGN SURFACE




DATUM15.0

| | | |


18.499
11.000
LBL
RBL
3.999
5.500
5.500
3.500
0.848
2.250
0.900
1.700
1.200
0.600
RK 0.625
RK 0.625
2.5%
3%
3%
2.5%
10%

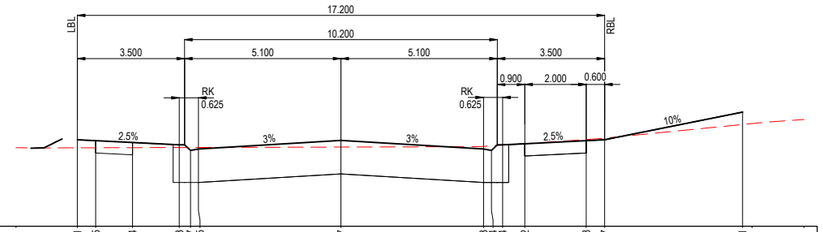
DATUM16.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



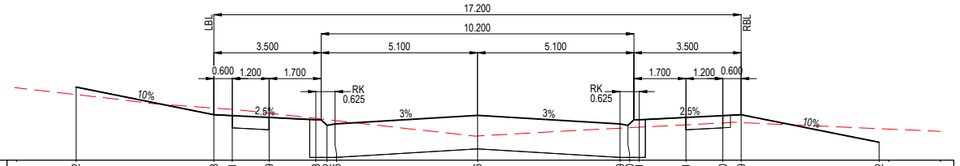

DATUM14.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



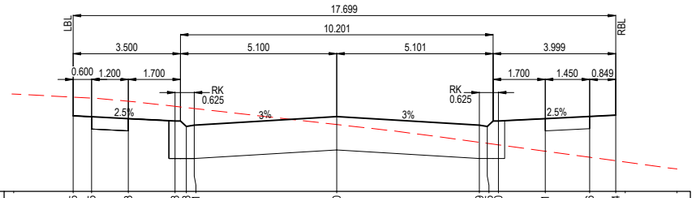

DATUM17.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



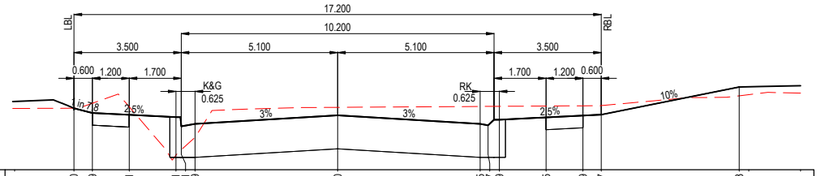

DATUM17.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



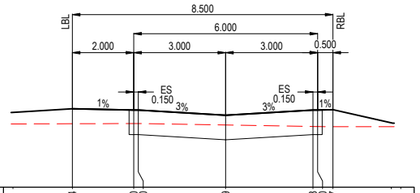

DATUM14.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



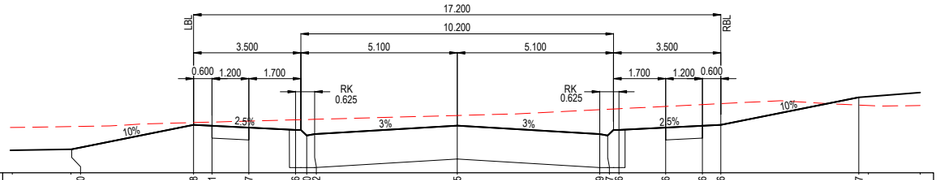

DATUM19.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



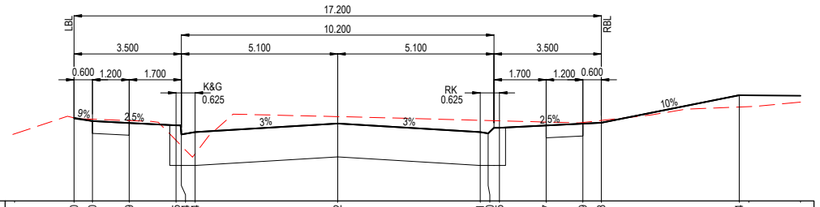

DATUM12.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



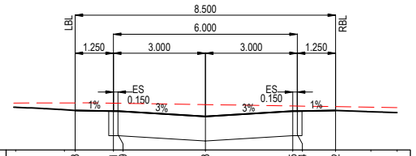

DATUM13.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE




DATUM11.0

| | | |

LEGEND:

INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 29.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 15 30 60 90 120
SCALE 1:1500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL SIGNAGE & LINE MARKING PLAN

Sheet 85 of 145

Scale 1:1500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 250 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192e7b132b3-de5d-411e-a345-45f576777fd\2301879-321-250-LMP.dwg

NOTES
1. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
2. LINEMARKING IN ACCORDANCE WITH AS1742.
3. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
4. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
5. ROAD CLOSED SIGNS ARE TEMPORARY AND TO BE REMOVED AS NEW STAGES ARE CONSTRUCTED

LEGEND:

INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

BULLECOURT AVENUE
SINAI AVENUE
ASHFORD AVENUE
MILPERRA RESERVE
NORTHERN PARK
LANE 4
WALK 1
ROAD 10
LANE 3
ROAD 8
ROAD 2B
ROAD 2
STAGE 6
STAGE 7
ROAD CLOSED G9-20
D4-5
D4-1-2A
W1-3(L)
W1-3(R)
G2-3 LANE 3 ROAD 10
G2-3 ROAD 8 LANE 5
G2-3 ROAD 8 ROAD 10
G2-3 ROAD 2 ROAD 2 ROAD 8
GIVE WAY R1-2A

**WARNING**
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| REV | DESCRIPTION | DATE | DRN. | APP. |
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mirvac

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SCALE 1:500 AT A1 SIZE

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| Designed Date | R. GOVENDER 23.06.2025 |
| Drawn | D.RAFTER |
| Checked Date | S. FERGUSON 29.10.25 |
| Approved Reg. No. Date | S. FERGUSON PE0008347 29.10.25 |
| DA Number | - |

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Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SIGNAGE & LINE MARKING PLANS SHEET 1 OF 5

Sheet 86 of 145

Scale 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 251 | B |

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NOTES
1. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
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LEGEND:

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SIGNAGE & LINE MARKING PLANS
SHEET 2 OF 5

Sheet 87 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 252 | B |

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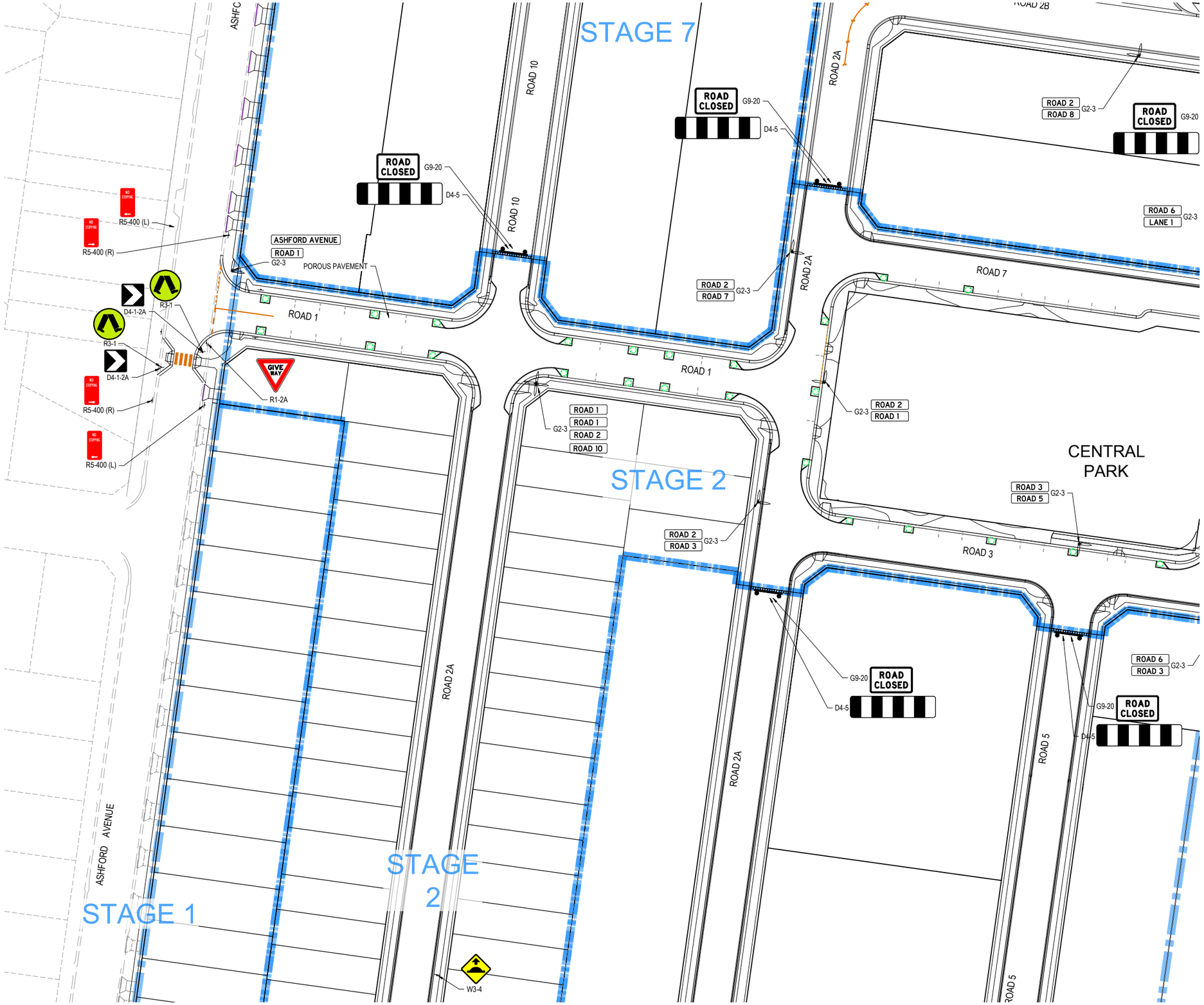


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LEGEND:

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SIGNAGE & LINE MARKING PLANS
SHEET 3 OF 5

Sheet 88 of 145

Scale 1:500 @ A1

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| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 253 | B |

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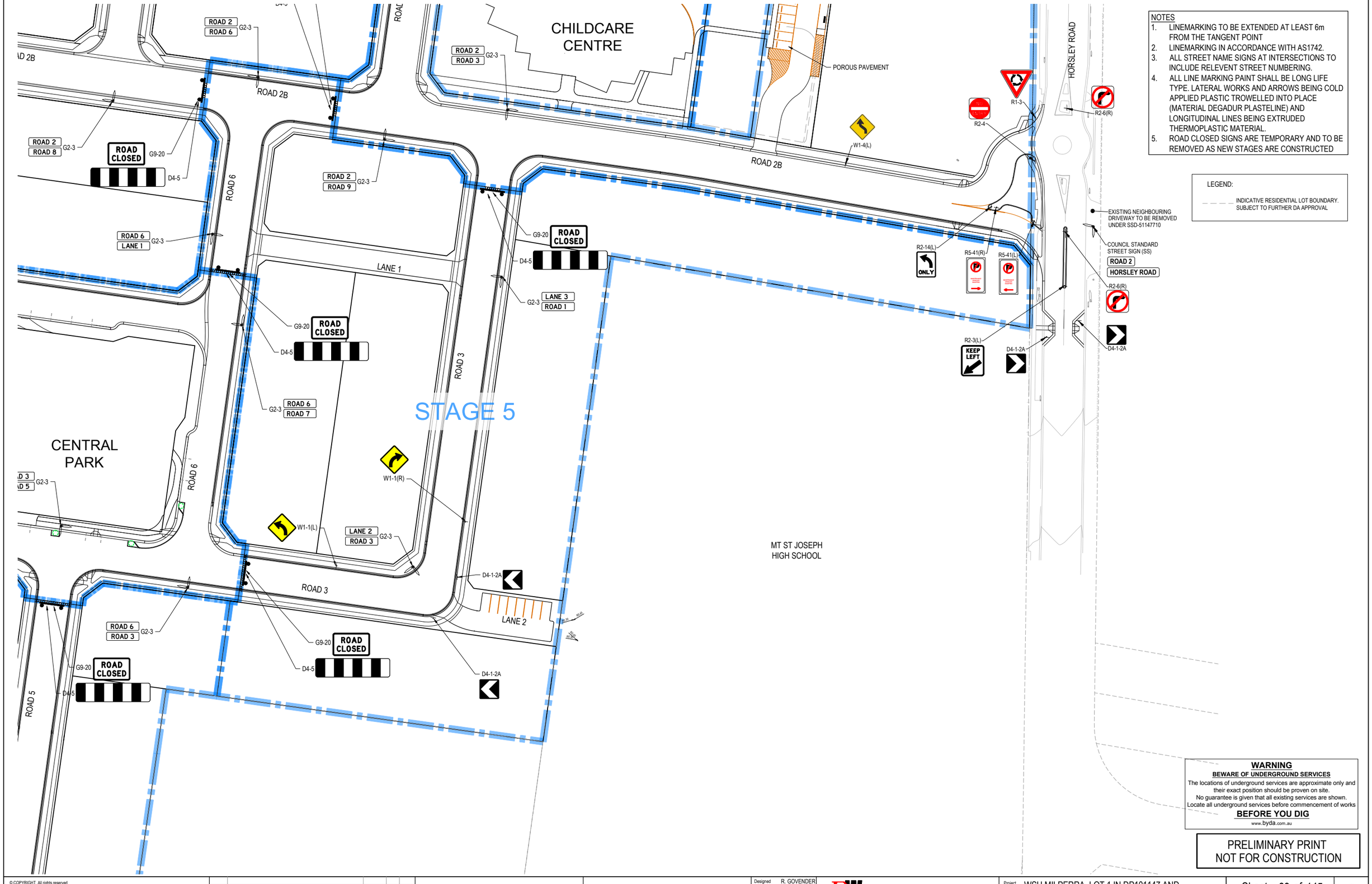


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| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Date | 29.10.25 |
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| Approved | S. FERGUSON |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SIGNAGE & LINE MARKING PLANS
SHEET 4 OF 5

Sheet 89 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No. | Rev |
|---|---|---|---|
| 2301879 | 321 | 254 | B |

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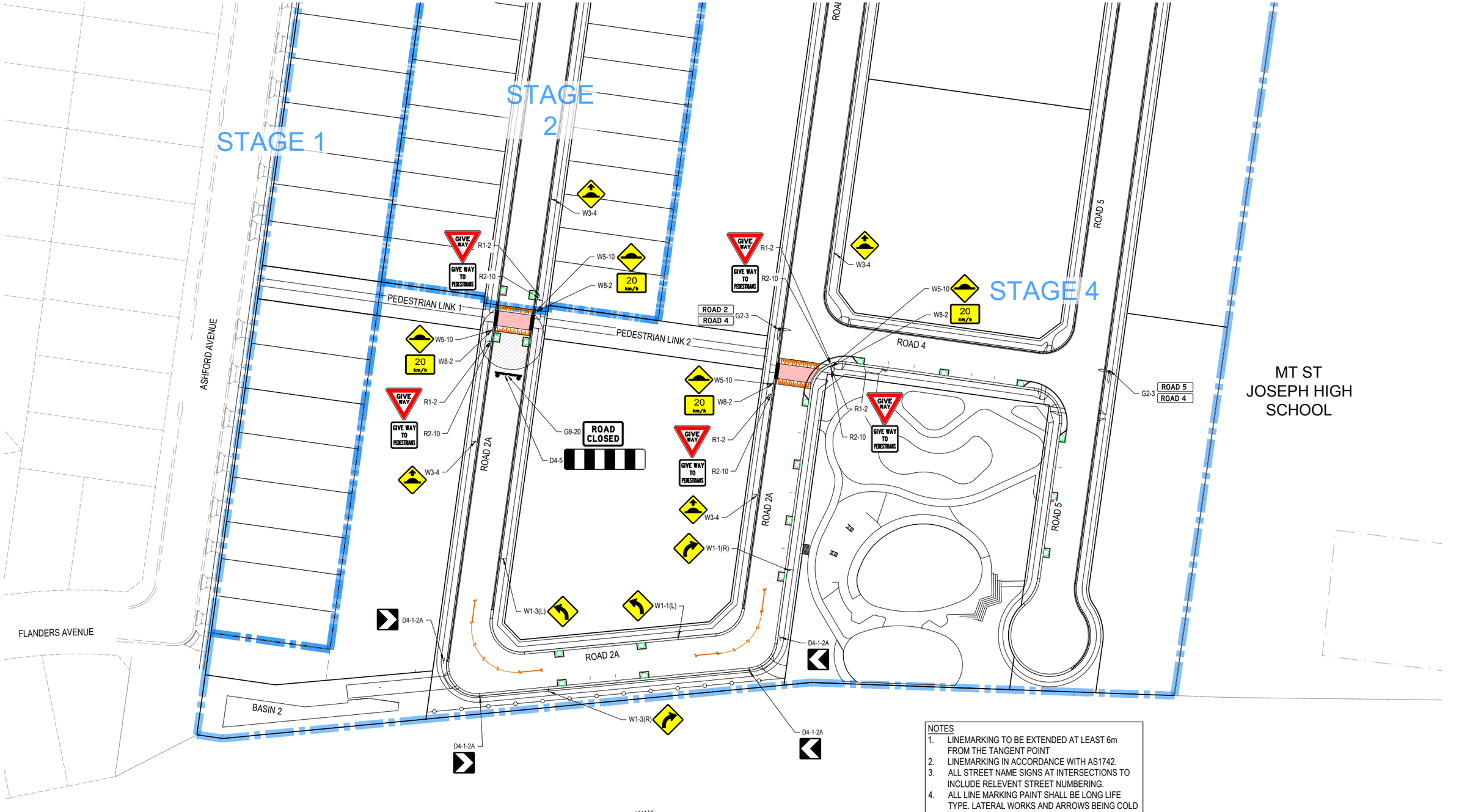


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| B | SIGNAGE ADDED | 23.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
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| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SIGNAGE & LINE MARKING PLANS
SHEET 5 OF 5

Sheet 90 of 145
Scale 1:500 @ A1
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| Project Ref | Stage No | Drawing No | Rev |
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| 2301879 | 321 | 255 | C |

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## LEGEND

- STORMWATER PIPE & PIT
- SEWER & MAINTENANCE STRUCTURES
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PROPOSED FOOTPATH
- PROPOSED NATURE STRIP
- ALTERNATIVE PAVEMENT DESIGN

LEGEND:

- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

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SCALE 1:200 AT A1 SIZE

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| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: INTERSECTION DETAILS
SHEET 1 OF 3

Sheet 91 of 145

Scale: 1:200 @ A1

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| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 300 | B |

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## LEGEND

- STORMWATER PIPE & PIT
- SEWER & MAINTENANCE STRUCTURES
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
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- PROPOSED FOOTPATH
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SCALE 1:250 AT A1 SIZE

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| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | INTERSECTION DETAILS<br>SHEET 2 OF 3 |

Sheet 92 of 145

Scale 1:250 @ A1

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| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 301 | B |

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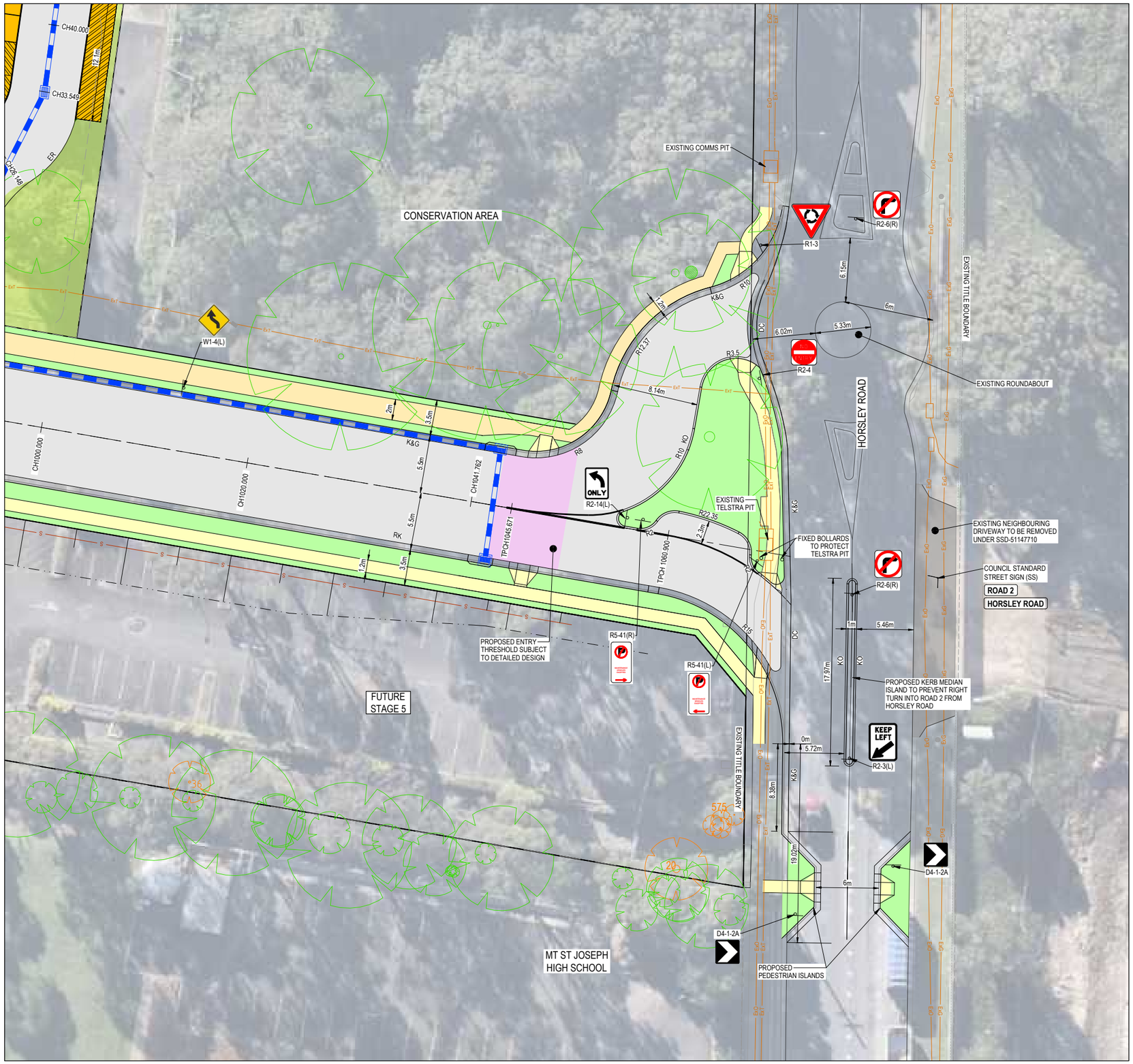


## LEGEND

- STORMWATER PIPE & PIT
- SEWER & MAINTENANCE STRUCTURES
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
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LEGEND:

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: INTERSECTION DETAILS
SHEET 3 OF 3

Sheet 93 of 145

Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
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| 2301879 | 321 | 302 | B |

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## LEGEND

- STORMWATER PIPE & PIT
- SEWER & MAINTENANCE STRUCTURES
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
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| C | FINAL ISSUE FOR SSDA | 29.10.25 | GN | SG |
| B | CARPARK AMENDED | 23.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: INTERSECTION DETAILS
CARPARK

Sheet 94 of 145

Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 303 | C |

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

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0 12.5 25 50 75 100
SCALE 1:1250 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL RETAINING WALLS

Sheet 95 of 145

Scale 1:1250 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 400 | B |

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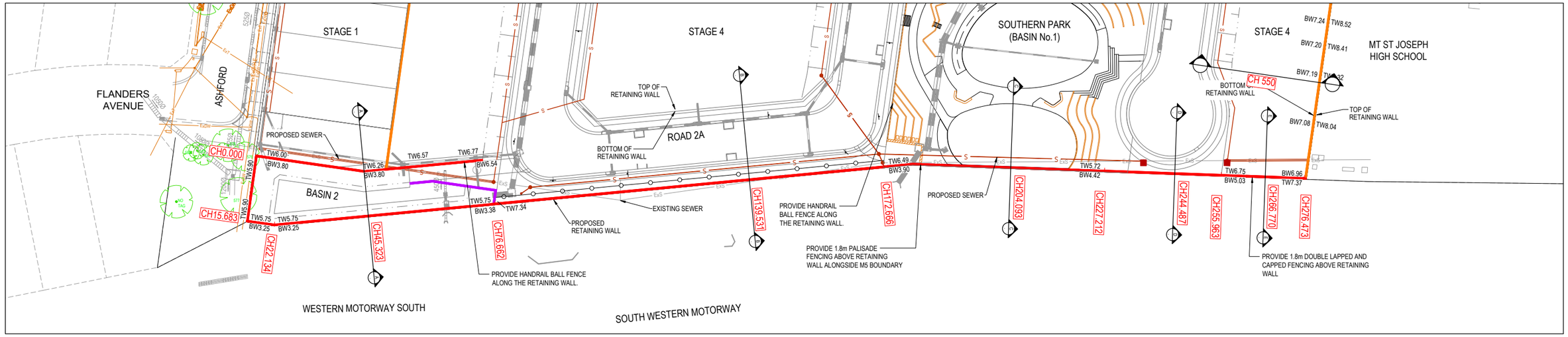
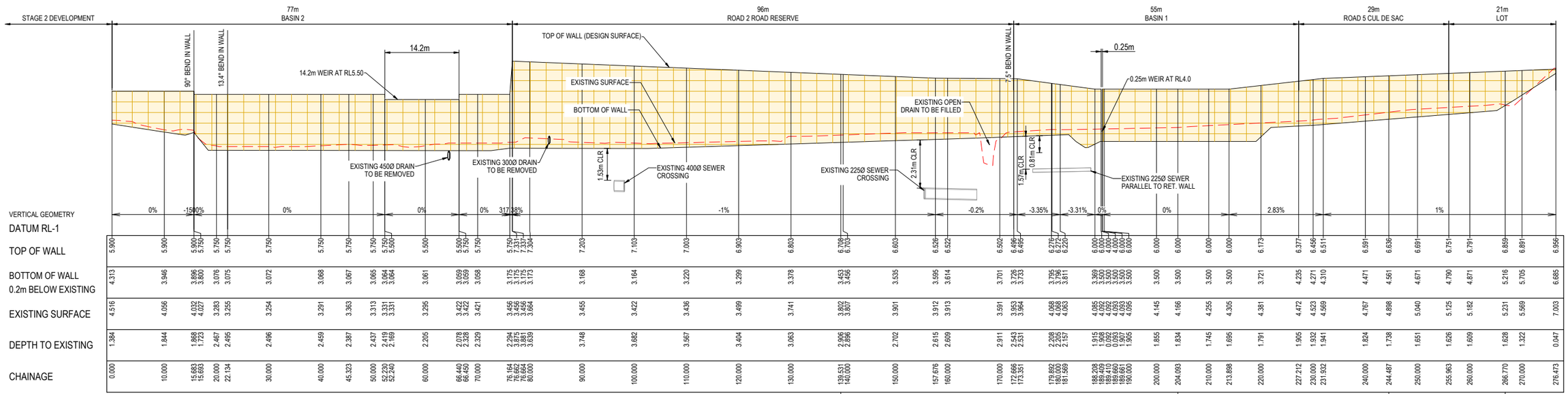



LAYOUT PLAN
SCALE 1:500 AT A1 SIZE

LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- SANDSTONE BLOCK RETAINING WALL




RETAINING WALL LONGITUDINAL SECTION
SCALE H1:400 V1:100AT A1 SIZE

HORIZ. 1:400 0 4 8 16 24 32
VERT. 1:100 0 1 2 4 6 8
SCALE AT A1 SIZE

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

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SCALE 1:500 AT A1 SIZE

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| Designed | R. GOVENDER |
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Oran Park NSW 2570
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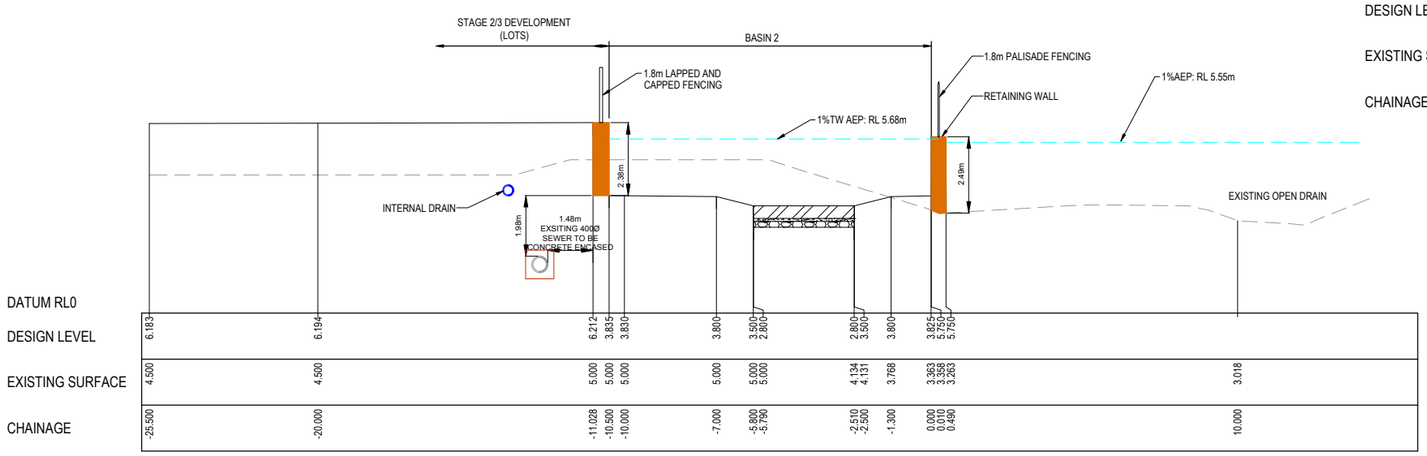
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: RETAINING WALL ALONG SOUTH WESTERN MORTORWAY LAYOUT & LONG-SECTION

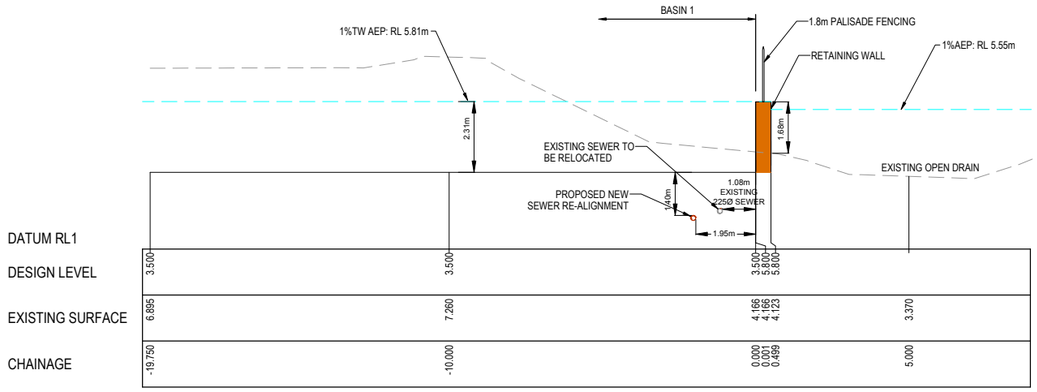
Sheet 96 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 401 | B |

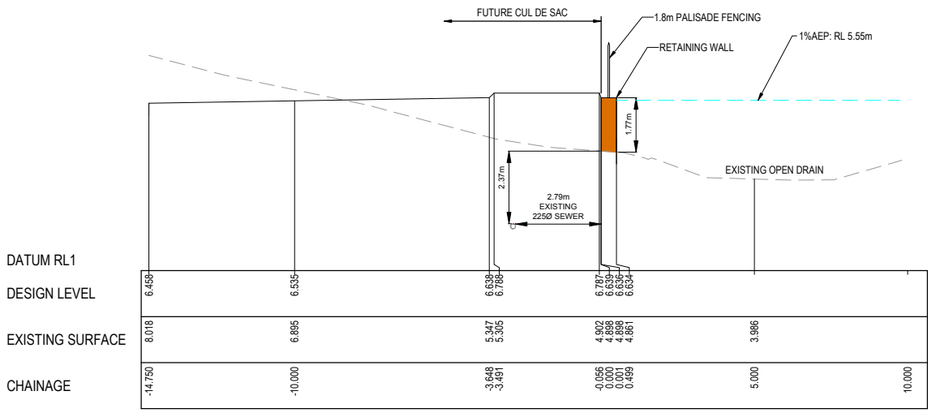
F:\synergytemp\12dSynergy\12dSynergyServerService\3192\e7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-401-RET.dwg



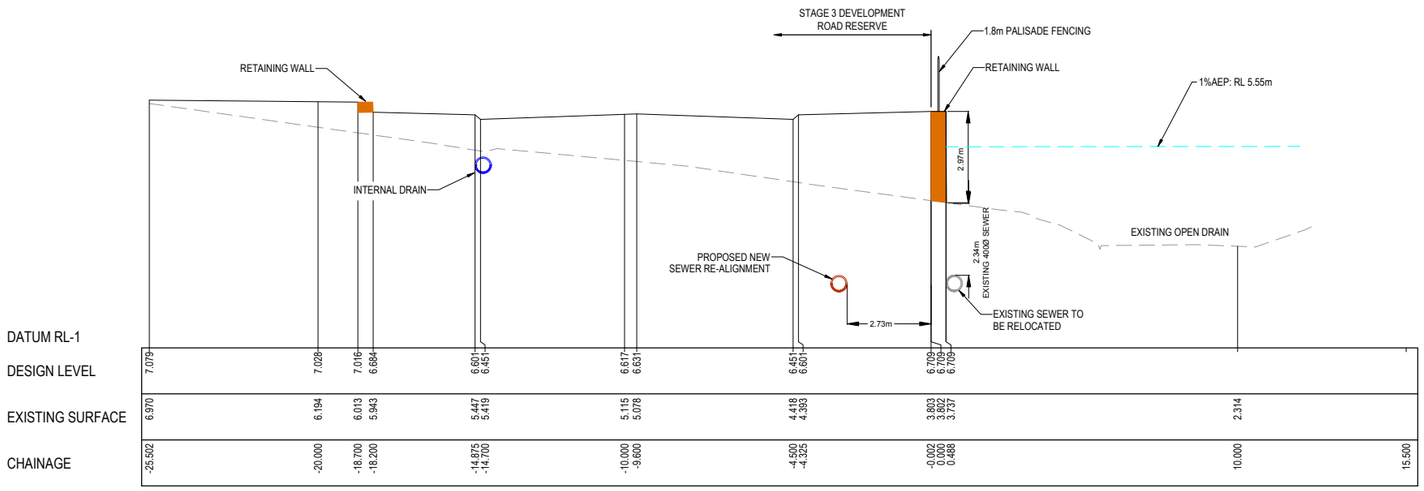

SECTION A-A - CH 45.323



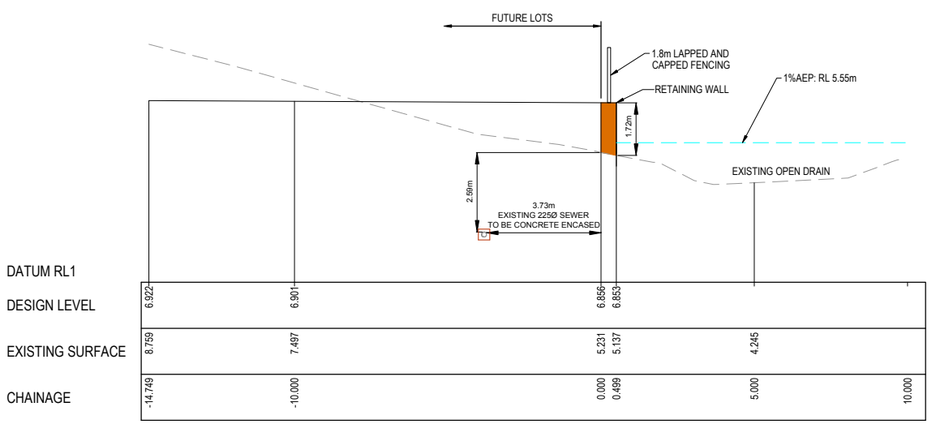

SECTION C-C - CH 204.093




SECTION D-D - CH 244.487




SECTION B-B - CH 139.531




SECTION E-E - CH 266.770

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|---|---|---|---|---|

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SCALE 1:500 AT A1 SIZE

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| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: RETAINING WALL CROSS SECTIONS

Sheet 97 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 402 | B |

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ASHFORD AVENUE

STAGE 1

STAGE 2

FUTURE STAGE 4

1.5m D.E

1.2m D.E

1.5m D.E

900Ø

1200Ø

1200Ø

300Ø

150Ø

450Ø

NOTE:
TEMPORARY OSD BASIN 1 TO BE CONSTRUCTED WITH STAGE 1 WORKS AND DECOMMISSIONED WITH STAGE 4 WORKS

TEMPORARY TURNING AREA WITH 1 IN 6 BATTERS PART OF STAGE 2 WORKS

1 IN 3 BATTER TO EXISTING

MINIMUM 500mm COVER TO PROVIDE TO PIPE

SWALE WITH 1 IN 3 BATTERS TO EXISTING PART OF STAGE 2 WORK

PROVIDE TEMPORARY SANDBAG ENDWALL TO NEW STORMWATER COMMON DRAINAGE LINE TO DISCHARGE TO TEMPORARY RAINGARDEN PART OF STAGE 1 WORKS

STAGE 1 BOUNDARY

EXISTING 1488m³ BASIN CONSTRUCTED UNDER UNDER DA1512-2023 AS PART OF THE "DEMOLITION" STAGE IS TO REMAIN AND BE UTILISED FOR STAGE 1 CIVIL WORKS. SEDIMENT BASIN VOLUME IS TO BE MINIMUM 228m3 TO PROVIDE TREATMENT FOR STAGES 1 & 2 IF COMPLETED CONCURRENTLY.

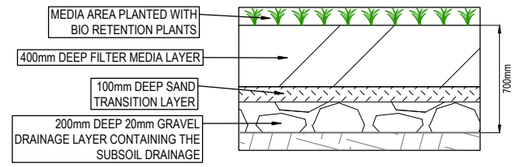
AT THE COMPLETION OF CONSTRUCTION WORKS, SEDIMENT BASIN IS TO BE CONVERTED INTO TEMPORARY RAINGARDEN WITH A MINIMUM FILTER MEDIA AREA OF 68m2. REFER TO DETAIL ON THIS SHEET.

PROPOSED RAINGARDEN

SWALE WITH 1 IN 3 BATTERS TO EXISTING PART OF STAGE 1 WORK

STAGE 4 BOUNDARY

SOUTH WESTERN M5 MOTORWAY




DETAIL B
TEMPORARY RAINGAREDEN DETAIL
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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

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0 2.5 5 10 15 20
SCALE 1:250 AT A1 SIZE

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
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| Date | 29.10.25 |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TEMPORARY OSD BASIN 1
SHEET 1 OF 2

Sheet 98 of 145
Scale 1:250 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 500 | B |

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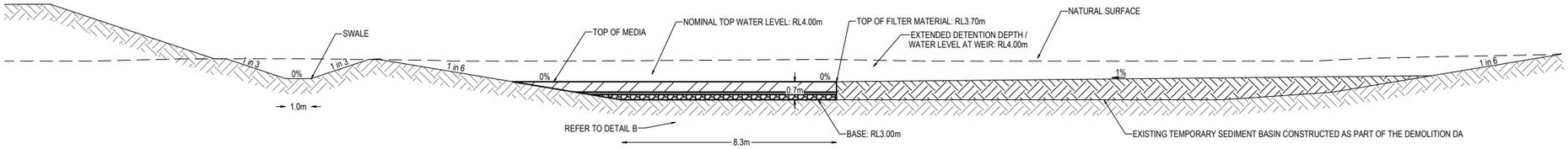
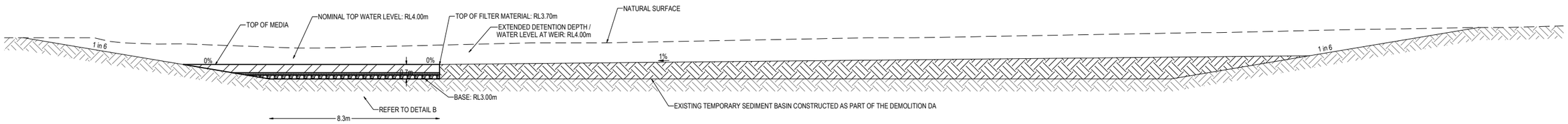
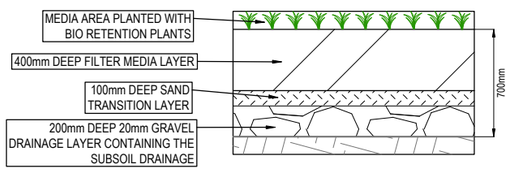



SECTION A-A
SEDIMENT BASIN TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE




SECTION B-B
SEDIMENT BASIN TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE




DETAIL B
TEMPORARY RAINGAREDEN DETAIL
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| REV | DESCRIPTION | DATE | DRN. | APP. |
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0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

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| Designed | R. GOVENDER |
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| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TEMPORARY OSD BASIN 1
SHEET 2 OF 2

Sheet 99 of 145
Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 501 | B |

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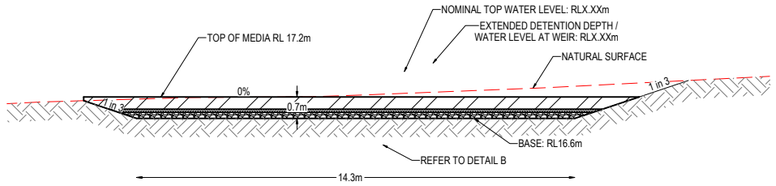



SECTION A-A
SEDIMENT BASIN TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE

PROVIDE TEMPORARY SANDBAG ENDWALL TO NEW STORMWATER COMMON DRAINAGE LINE TO DISCHARGE TO TEMPORARY RAINGARDEN PART OF STAGE 1 WORKS

375Ø

375Ø

PERMANENT DRAINAGE PIPE CONSTRUCTED OUTSIDE OF STAGE 3 TO HAVE LINTELS PLATED OFF

NOTE:
TEMPORARY OSD BASIN 2 TO BE CONSTRUCTED WITH STAGE 3 WORKS AND DECOMMISSIONED WITH STAGE 6 WORKS.

CONSERVATION AREA

FUTURE STAGE 6

TEMPORARY SWALE WITH 1 IN 3 BATTERS GRADED AT 0.5% TO BASIN

FUTURE STAGE 6

DISCHARGE CONTROL PIT

SEDIMENT BASIN TO BE CONSTRUCTED PRIOR TO COMMENCEMENT OF WORKS AND CLEANED AS NECESSARY FOR USE. SEDIMENT BASIN VOLUME IS TO BE MINIMUM 169m³ TO PROVIDE TREATMENT FOR DEVELOPMENT

AT THE COMPLETION OF CONSTRUCTION WORKS, SEDIMENT BASIN TO BE CONVERTED INTO TEMPORARY RAINGARDEN WITH A MINIMUM FILTER AREA OF 169m². REFER TO DETAIL ON THIS SHEET

STAGE 6 BOUNDARY

STAGE 3

STAGE 3A & 3B

150Ø

SOLID 150mm DIA. UPVC PIPE GRADED AT 1% TO DAYLIGHT

150Ø

1 IN 3 BATTERS

DISCHARGE CONTROL PIT

PROVIDE TEMPORARY SANDBAG ENDWALL TO TEMPORARY STORMWATER COMMON DRAINAGE LINE TO DISCHARGE TO TEMPORARY RAINGARDEN PART OF STAGE 3 WORKS

TEMPORARY DRAINAGE PIPE INTO SEDIMENT BASIN

675Ø

675Ø

PERMANENT DRAINAGE PIT AND PIPES CONSTRUCTED OUTSIDE OF STAGE 3 TO HAVE LINTELS PLATED OFF

ROAD 2B

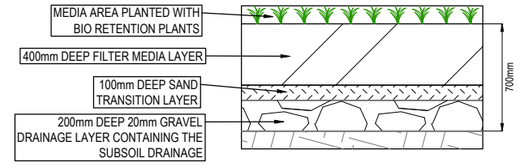
675Ø

FUTURE STAGE 5

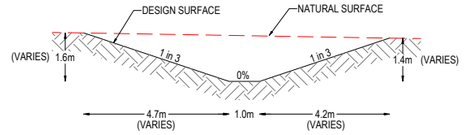
375Ø

375Ø

ROAD 9




DETAIL B
TEMPORARY RAINGAREDEN DETAIL
NOT TO SCALE




SECTION B-B
SWALE TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE

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0 2.5 5 10 15 20
SCALE 1:250 AT A1 SIZE

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|---|---|
| Designed Date | R. GOVENDER 23.06.2025 |
| Drawn | D.RAFTER |
| Checked Date | S. FERGUSON 29.10.25 |
| Approved Reg. No. Date | S. FERGUSON PE0008347 29.10.25 |
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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TEMPORARY OSD BASIN 2 |

Sheet 100 of 145

| Scale | Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|---|
| 1:250 @ A1 | 2301879 | 321 | 502 | B |

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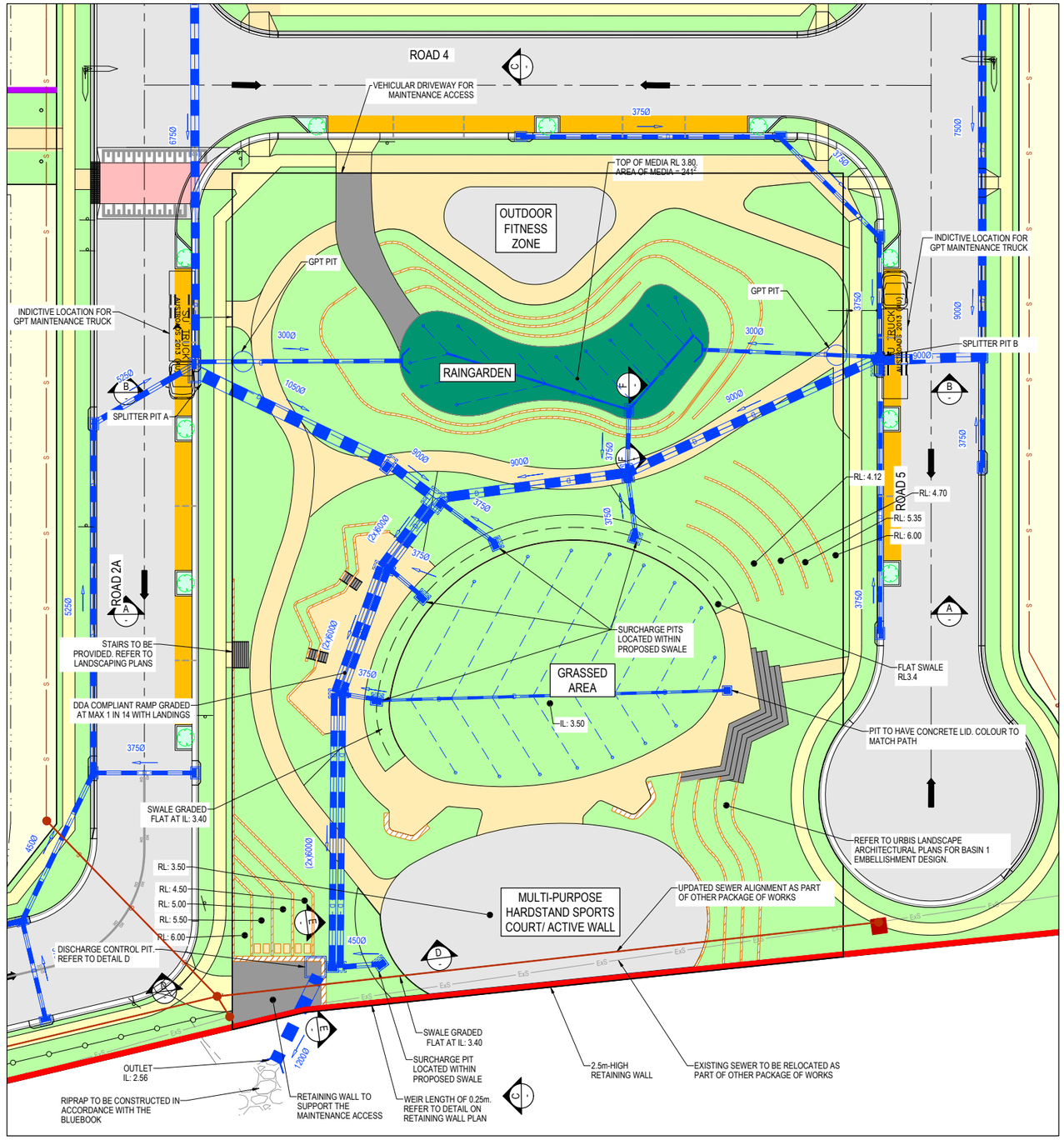
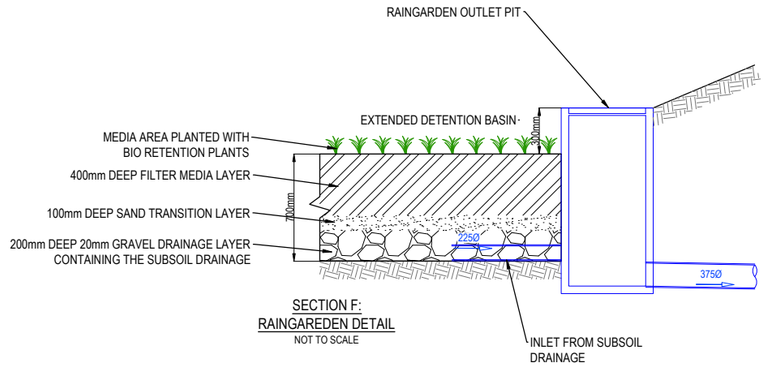



LEGEND:

INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

LEGEND - LAYOUT PLAN

- GRASSED AREA
- FOOTPATH
- CONCRETED AREA
- RETAINING WALL
- RAINGARDEN
- DRIVEWAY
- SUBSOIL DRAINAGE
- STORMWATER DRAIN & PIT




SECTION F:
RAINGAREDEN DETAIL
NOT TO SCALE

REFER TO URBIS LANDSCAPE ARCHITECTURAL PLANS FOR BASIN 1 EMBELLISHMENT DESIGN.

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SCALE 1:250 AT A1 SIZE

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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | OSD BASIN |

Sheet 101 of 145

Scale 1:250 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 505 | B |

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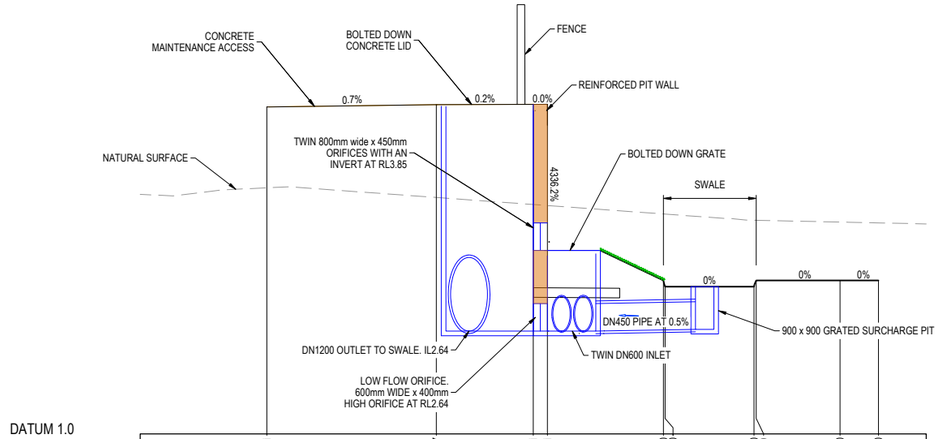


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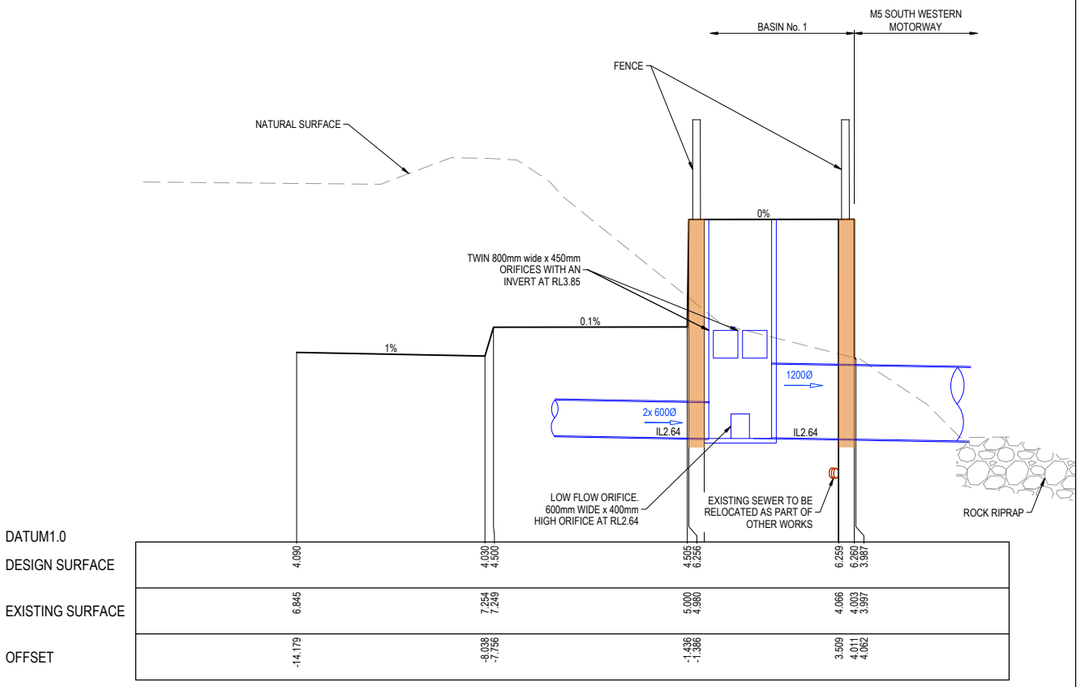
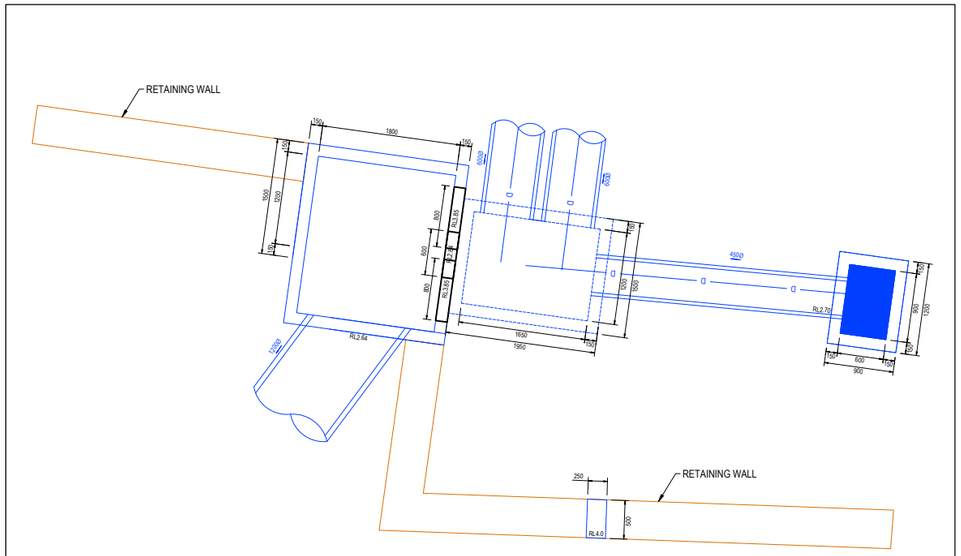
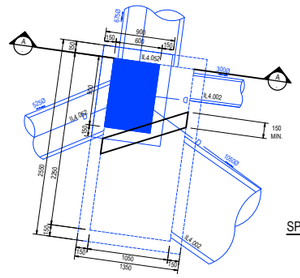


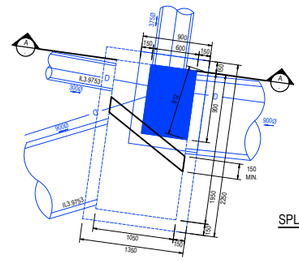

SECTION E



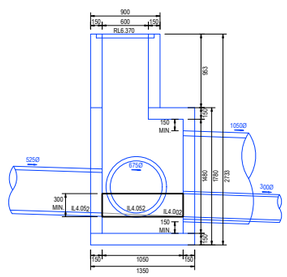

DISCHARGE CONTROL PIT D
PLAN
SCALE 1:50



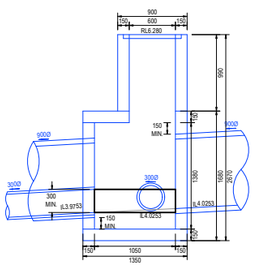

SPLITTER PIT A
PLAN
SCALE 1:50




SPLITTER PIT B
PLAN
SCALE 1:50




SPLITTER PIT A
DETAIL AA
SCALE 1:50




SPLITTER PIT B
DETAIL AA
SCALE 1:50

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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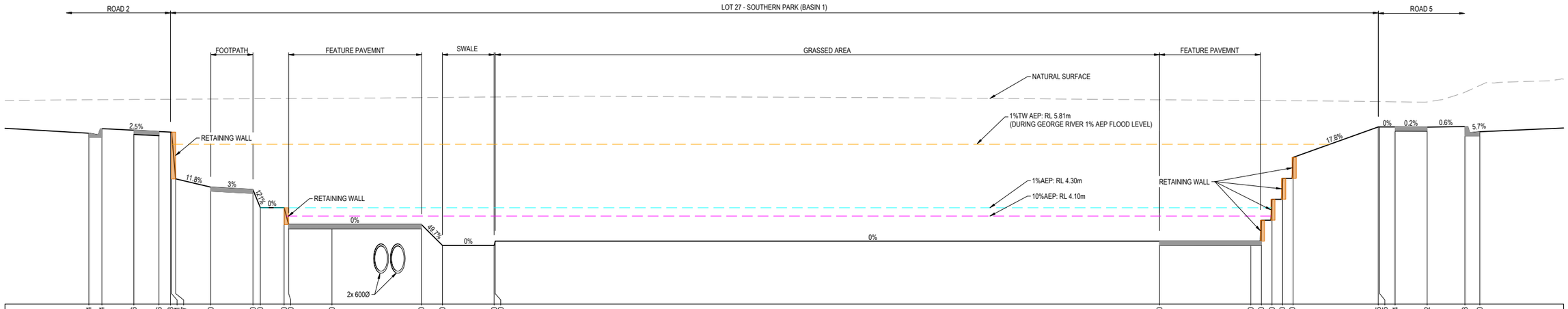
| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | OSD BASIN |

Sheet 102 of 145

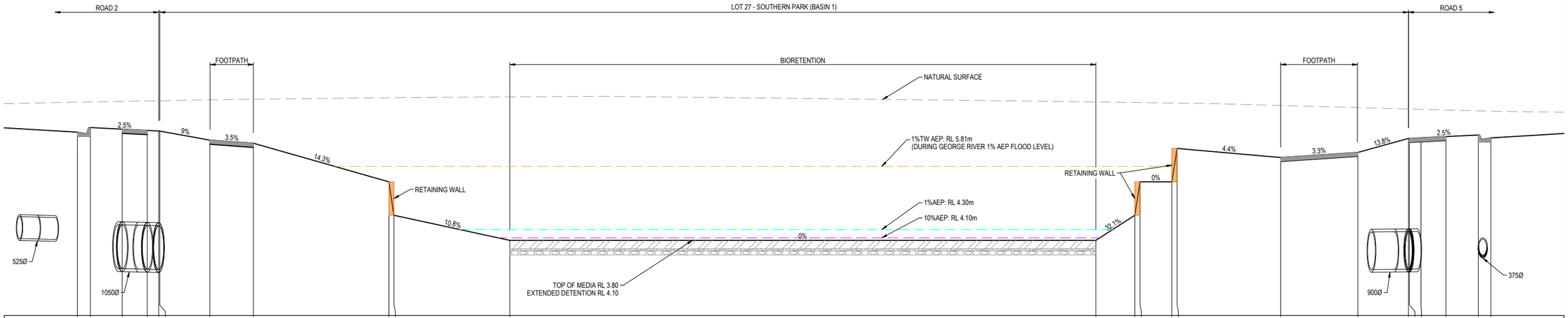
Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 506 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192\e7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-505-OSD.dwg




SECTION A




SECTION B

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
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| Date | 29.10.25 |
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ph: 02 46255055
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

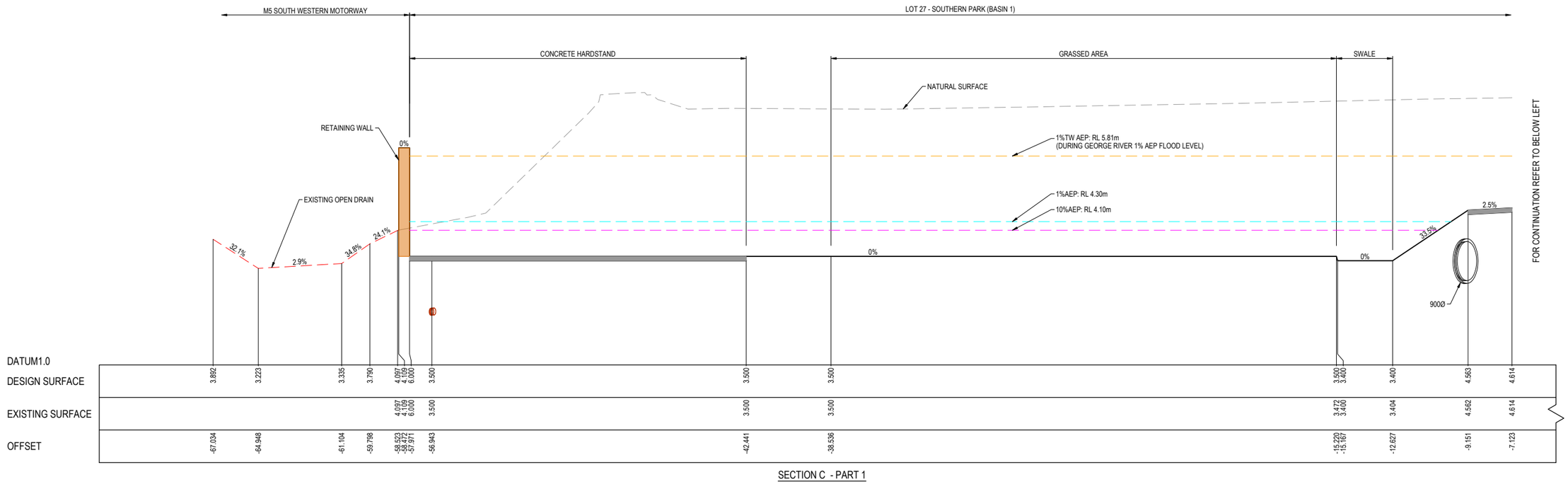
Drawing Title: OSD BASIN

Sheet 103 of 145

Scale: 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 507 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192\e7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-505-OSD.dwg

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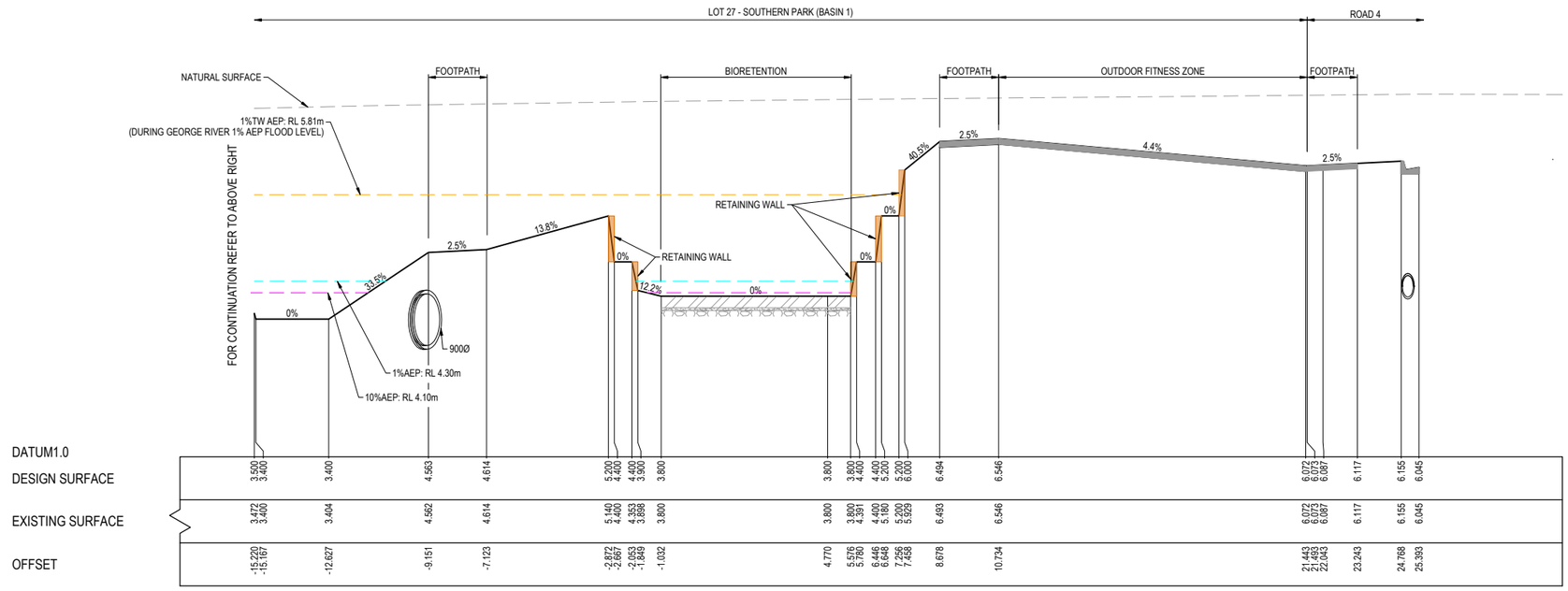


SECTION C - PART 2

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

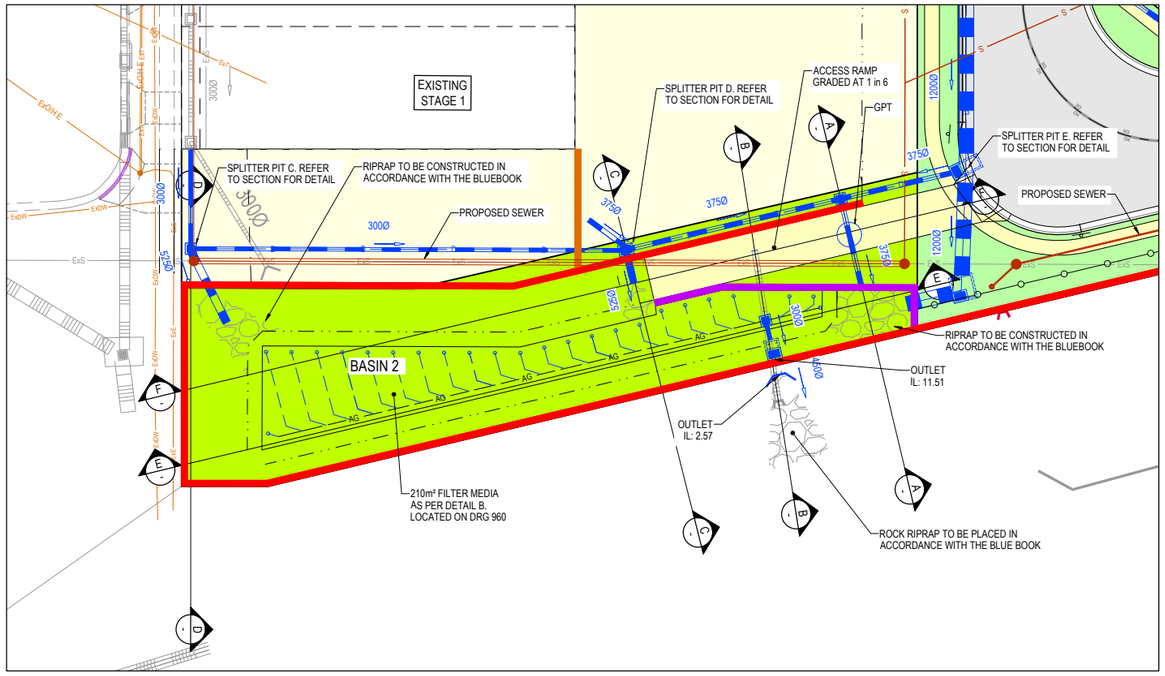
Drawing Title: OSD BASIN

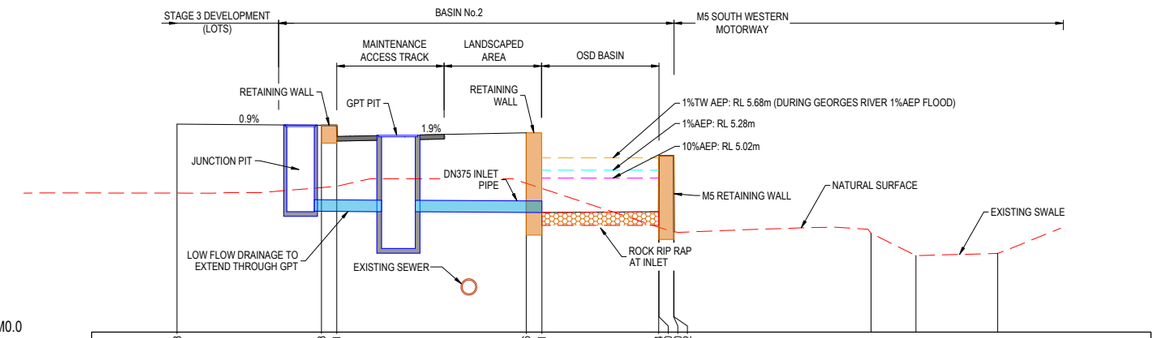
Sheet 104 of 145

Scale: 1:200 @ A1

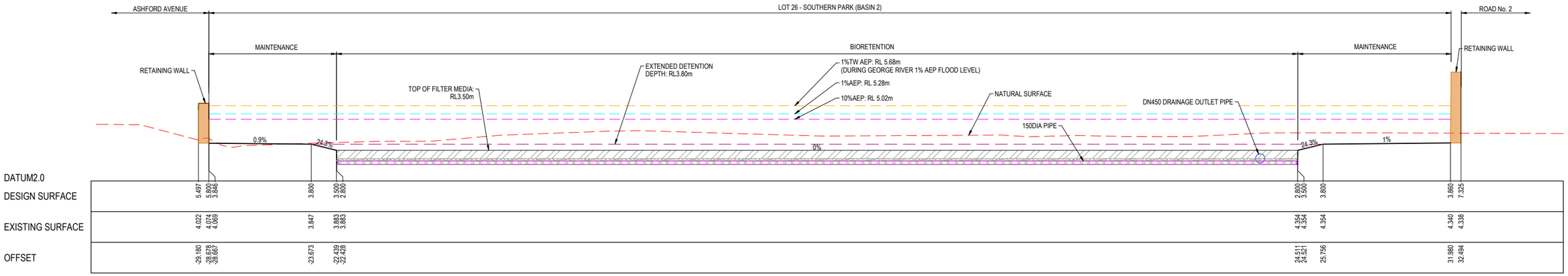
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 508 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192\e7b132b3-de5d-411e-a345-45f57677f7f5\2301879-321-505-OSD.dwg

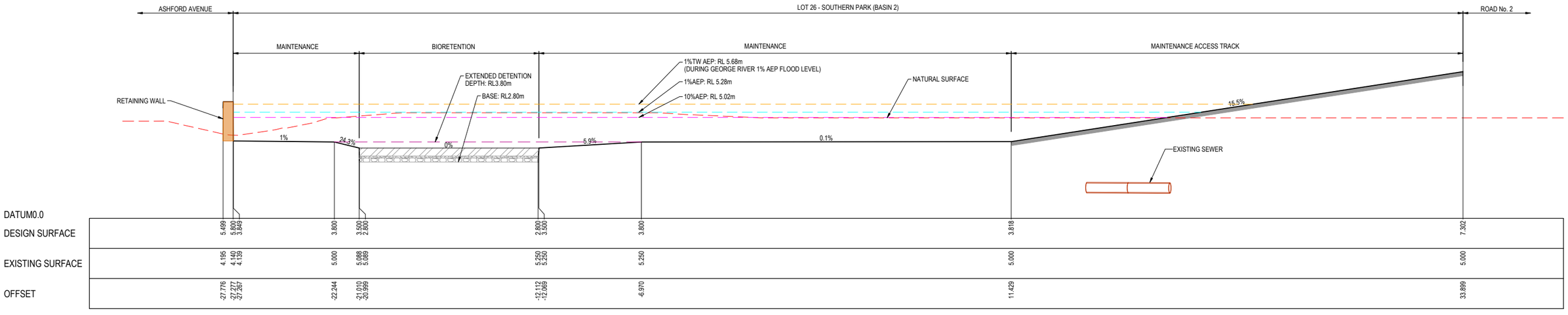

EXISTING STAGE 1
SPLITTER PIT C. REFER TO SECTION FOR DETAIL
RIPRAP TO BE CONSTRUCTED IN ACCORDANCE WITH THE BLUEBOOK
PROPOSED SEWER
SPLITTER PIT D. REFER TO SECTION FOR DETAIL
ACCESS RAMP GRADED AT 1 in 6
GPT
SPLITTER PIT E. REFER TO SECTION FOR DETAIL
PROPOSED SEWER
RIPRAP TO BE CONSTRUCTED IN ACCORDANCE WITH THE BLUEBOOK
BASIN 2
OUTLET IL: 11.51
OUTLET IL: 2.57
210m² FILTER MEDIA AS PER DETAIL B. LOCATED ON DRG 960
ROCK RIPRAP TO BE PLACED IN ACCORDANCE WITH THE BLUE BOOK


STAGE 3 DEVELOPMENT (LOTS)
BASIN No.2
M5 SOUTH WESTERN MOTORWAY
MAINTENANCE ACCESS TRACK
LANDSCAPED AREA
OSD BASIN
RETAINING WALL
GPT PIT
RETAINING WALL
0.9%
1.9%
1%TW AEP: RL 5.68m (DURING GEORGES RIVER 1%AEP FLOOD)
1%AEP: RL 5.28m
10%AEP: RL 5.02m
JUNCTION PIT
DN375 INLET PIPE
M5 RETAINING WALL
NATURAL SURFACE
EXISTING SWALE
LOW FLOW DRAINAGE TO EXTEND THROUGH GPT
EXISTING SEWER
ROCK RIP RAP AT INLET

| | | |




SECTION E




SECTION F

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

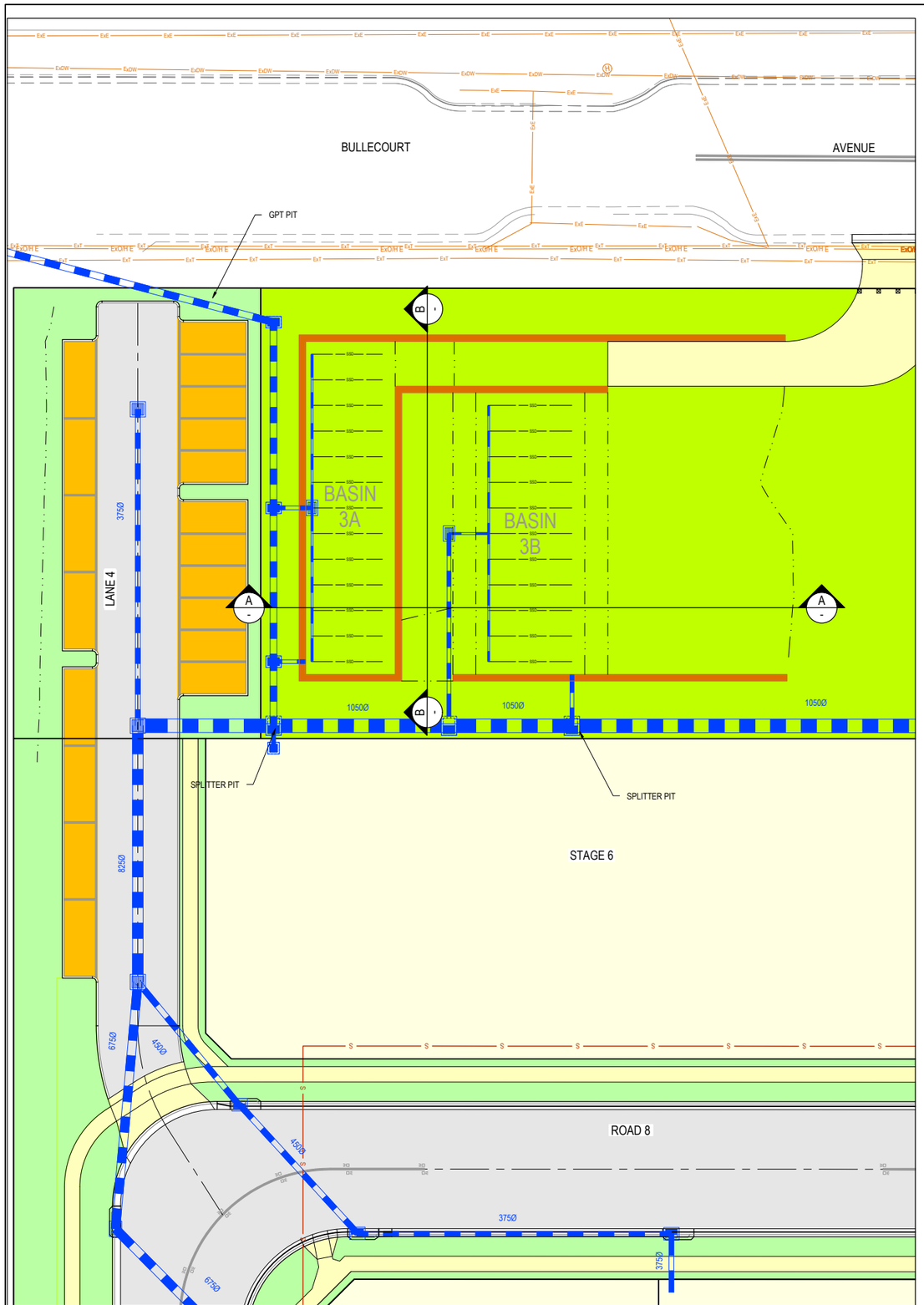
Drawing Title: OSD BASIN

Sheet 106 of 145

Scale: 1:200 @ A1

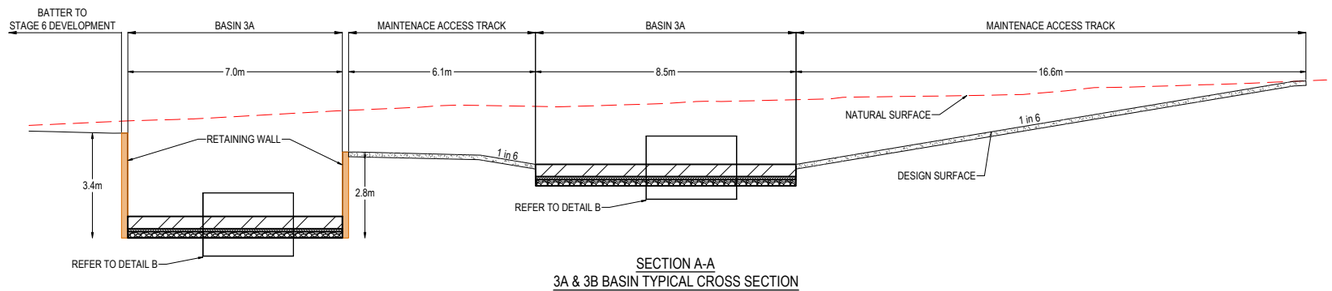
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 510 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192\e7b132b3-de5d-411e-a345-45f57677f7f5\2301879-321-505-OSD.dwg

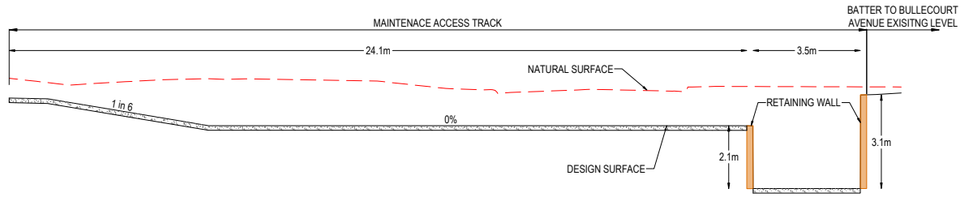



LEGEND:

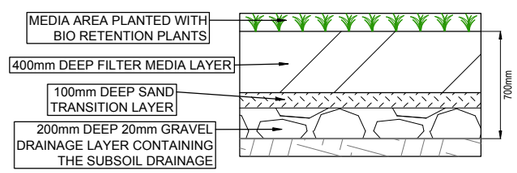
_ _ _ _ INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SECTION A-A
3A & 3B BASIN TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE




SECTION B-B
3A & 3B BASIN TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE




DETAIL B
TEMPORARY RAINGAREDEN DETAIL
NOT TO SCALE

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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Oran Park NSW 2570
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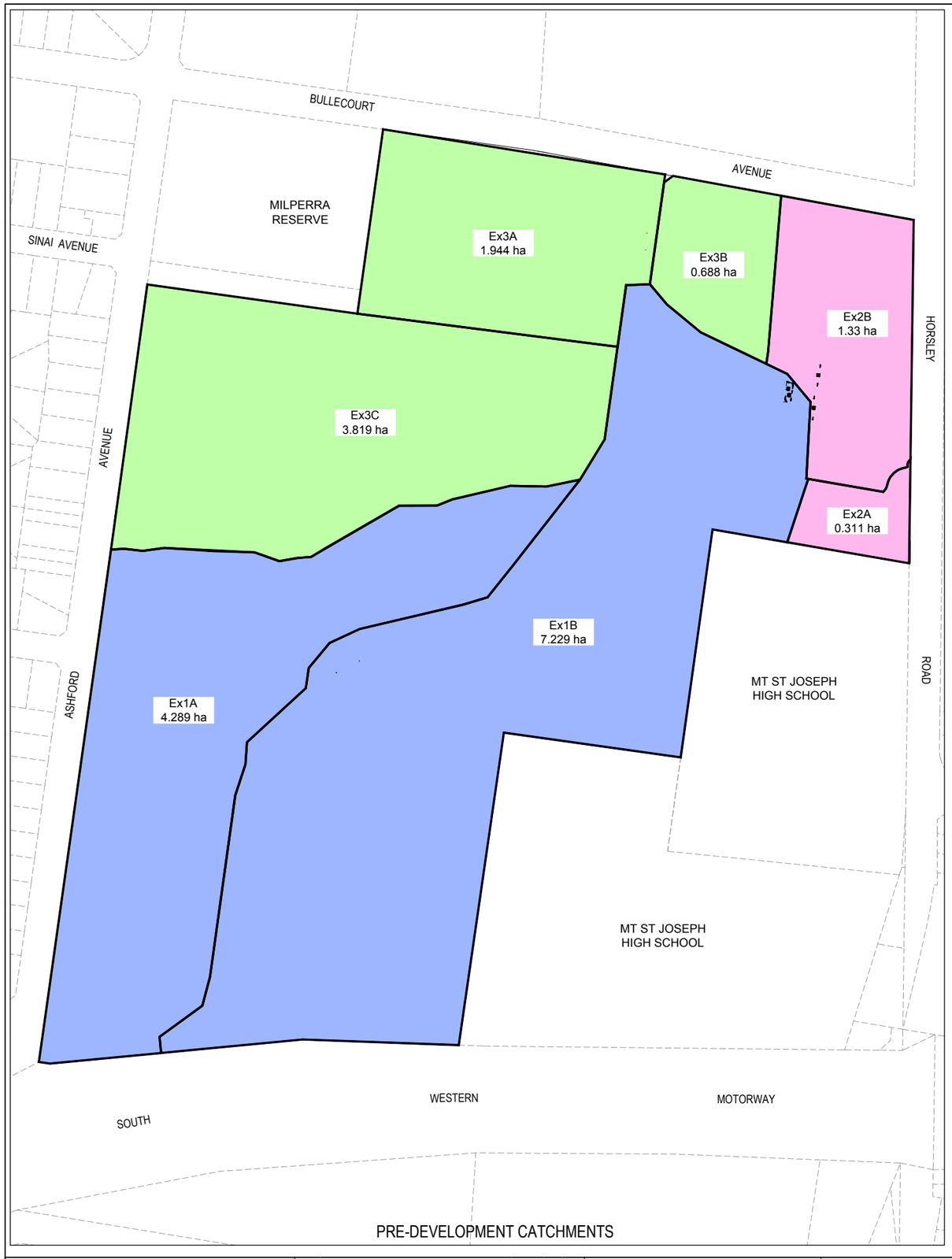
| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | OSD BASIN |

Sheet 107 of 145

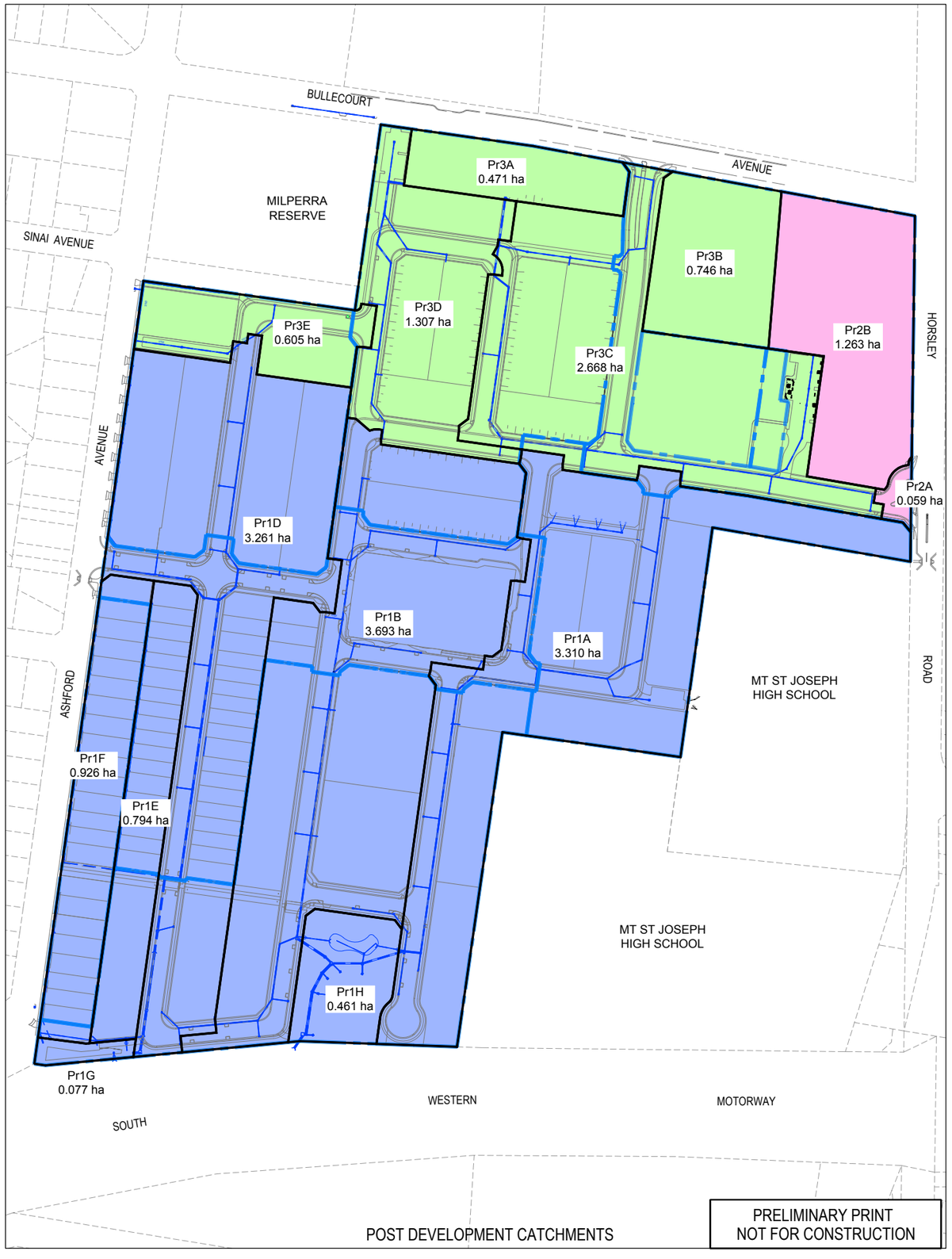
Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 511 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192\e7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-505-OSD.dwg




PRE-DEVELOPMENT CATCHMENTS




POST DEVELOPMENT CATCHMENTS

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 15 30 60 90 120
SCALE 1:1500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL CATCHMENT PLAN

Sheet 108 of 145

Scale: 1:1500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 550 | B |

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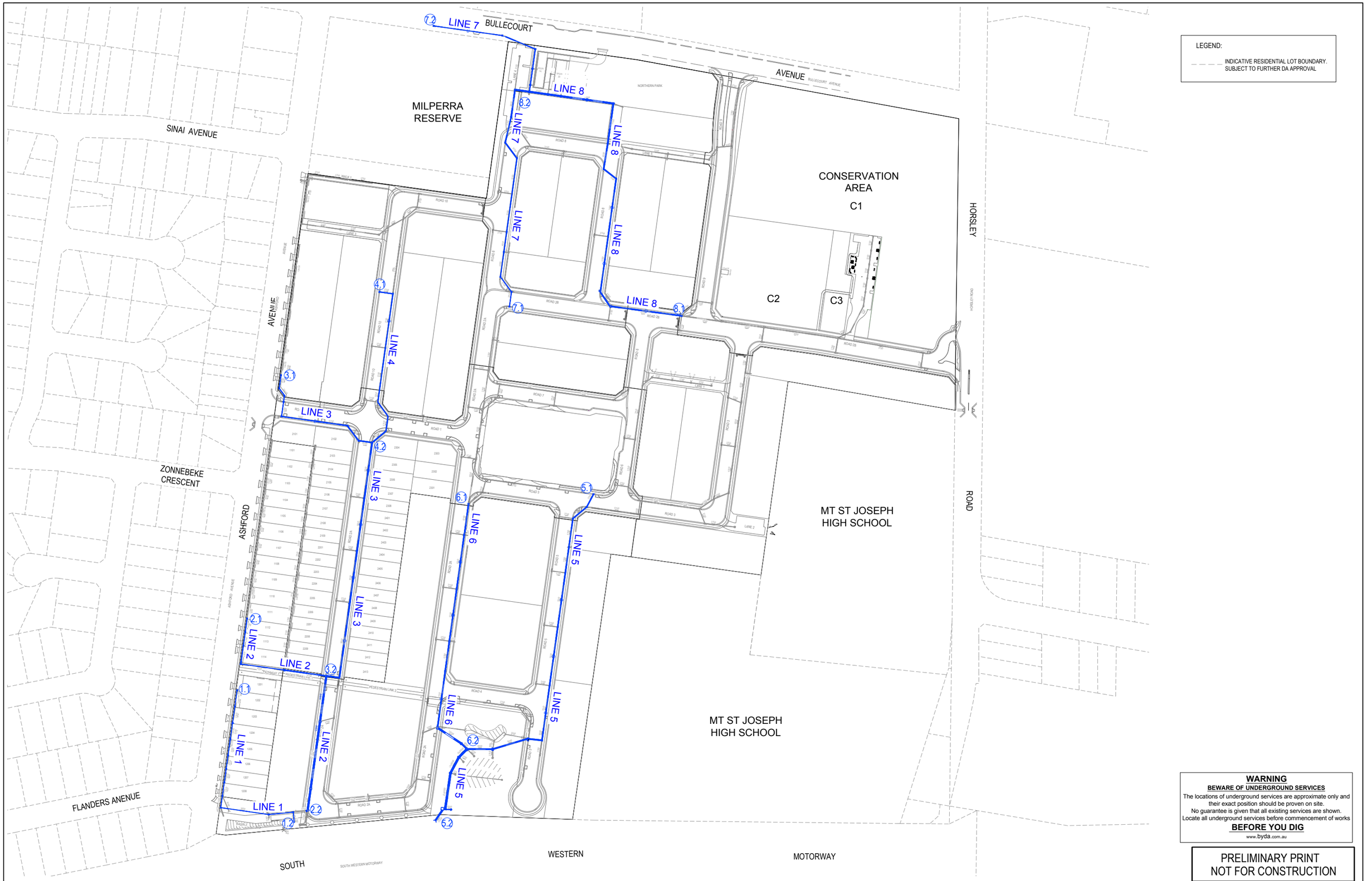


**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 12.5 25 50 75 100
SCALE 1:1250 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL TRUNK DRAINAGE LAYOUT PLAN

Sheet 109 of 145

Scale: 1:1250 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 600 | B |

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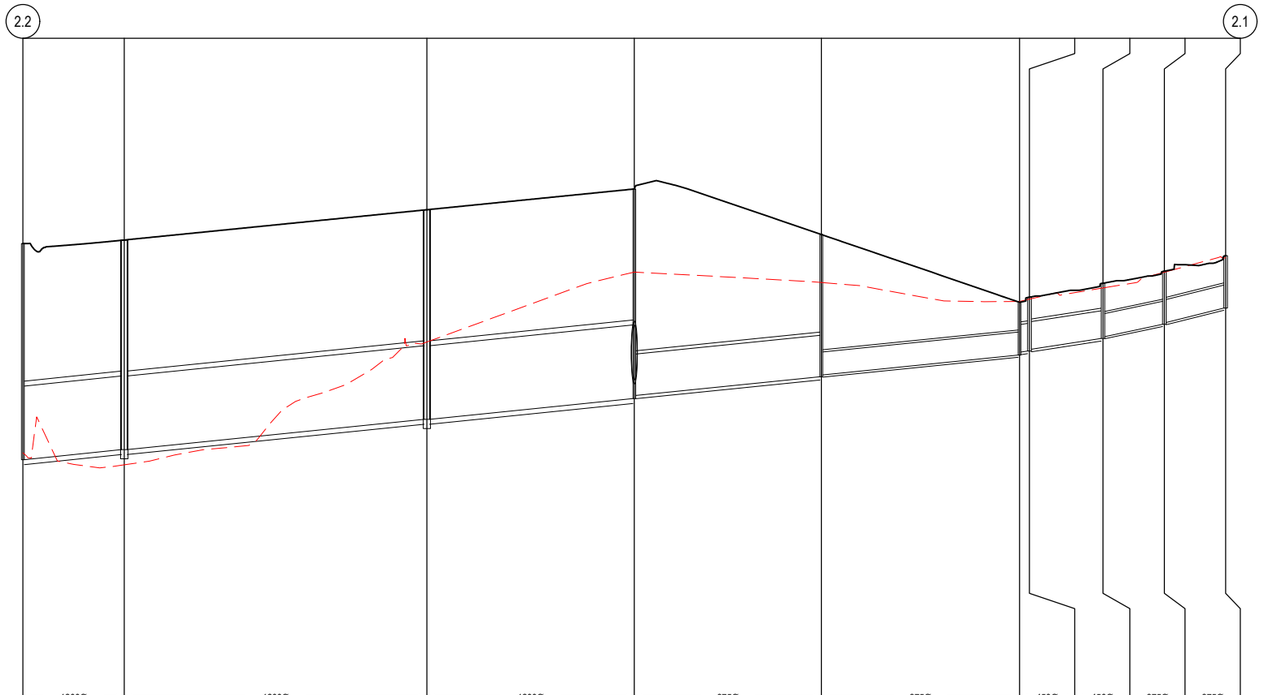
NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

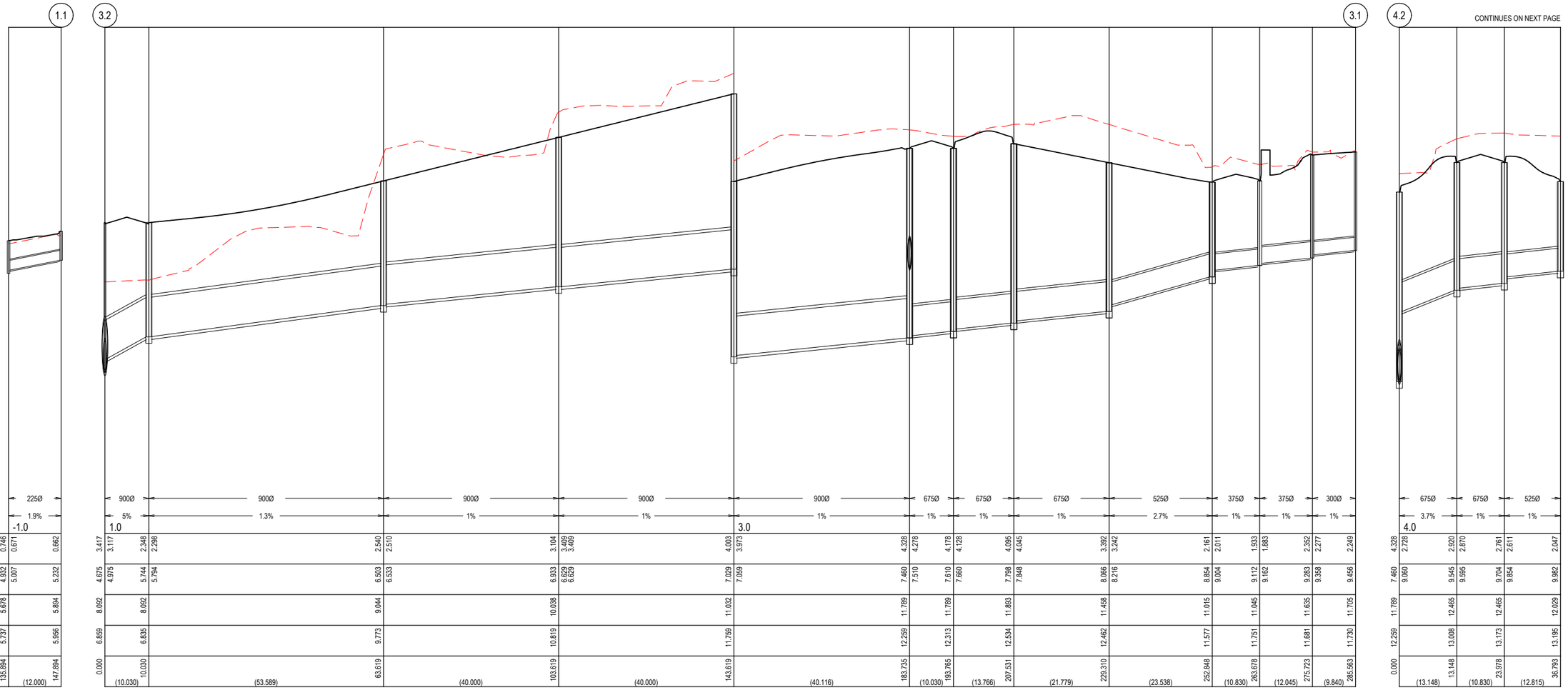
LEGEND
EXISTING SURFACE
DESIGN SURFACE




| | | |

NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

LEGEND
EXISTING SURFACE
DESIGN SURFACE




| | | |

NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

LEGEND
EXISTING SURFACE
DESIGN SURFACE

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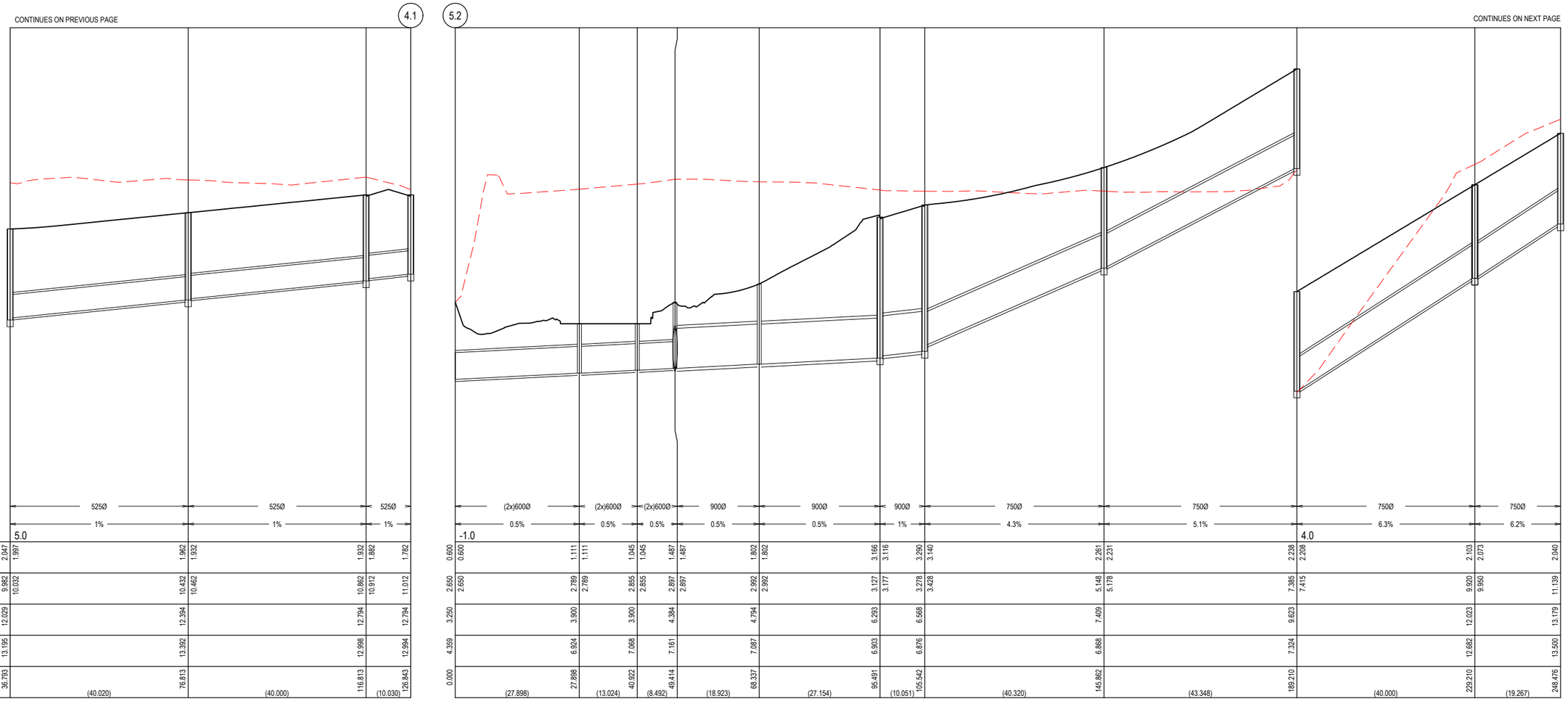
CONTINUES ON NEXT PAGE



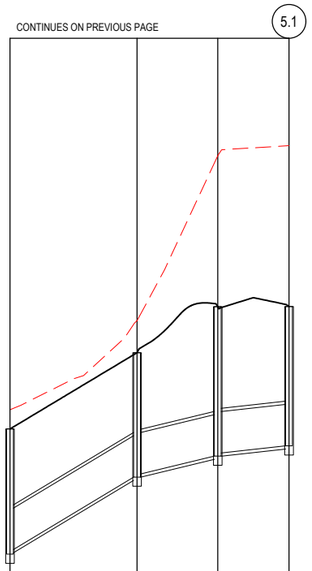

LINE 4

| | | |

NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

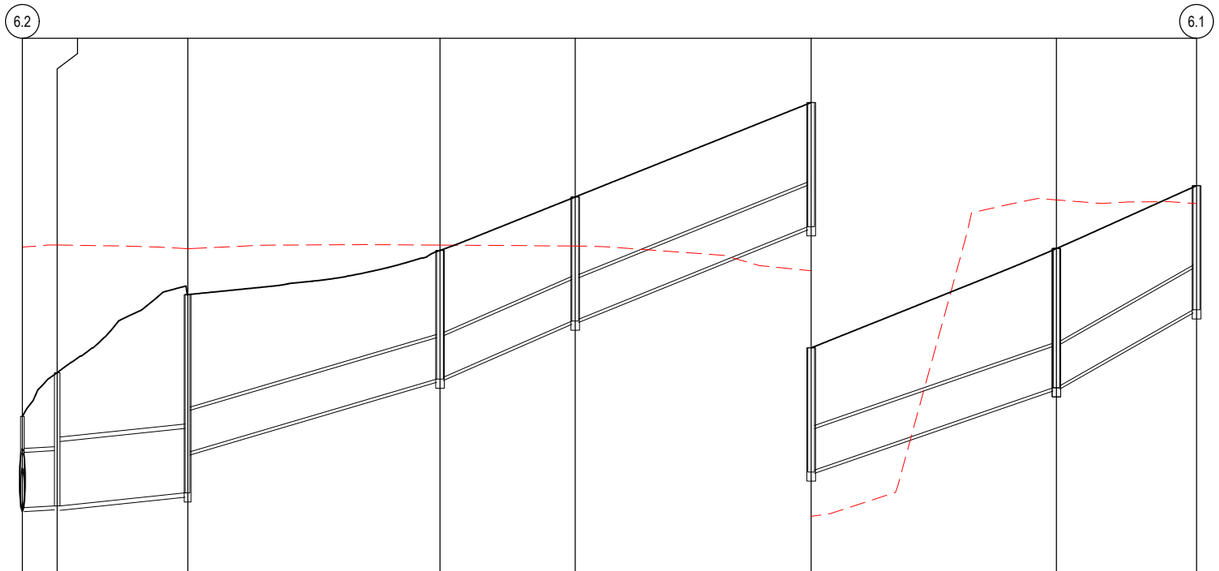
LEGEND
EXISTING SURFACE
DESIGN SURFACE

CONTINUES ON PREVIOUS PAGE



| | 5.1 | | | | |
|---|---|---|---|---|---|
| PIPE SIZE (mm) | | 675Ø | 675Ø | 675Ø | |
| PIPE GRADE (%) | | 5.7% | 2.2% | 1% | |
| DATUM | 8.0 | | | | |
| DEPTH TO INVERT | 2.040 | 1.965 | 2.028 | 1.978 | 2.436 | 2.386 | 2.272 |
| INVERT LEVEL | 11.139 | 11.214 | 12.395 | 12.445 | 12.737 | 12.787 | 12.904 |
| FINISHED SURFACE | 13.179 | | 14.423 | | 15.174 | | 15.176 |
| EXISTING SURFACE | 13.500 | | 14.945 | | 17.633 | | 17.798 |
| PIPE CHAINAGE | 248.476 | | 269.210 | | 282.358 | | 293.997 |
| (Reach Length) | | (20.733) | | (13.148) | | (11.639) | |

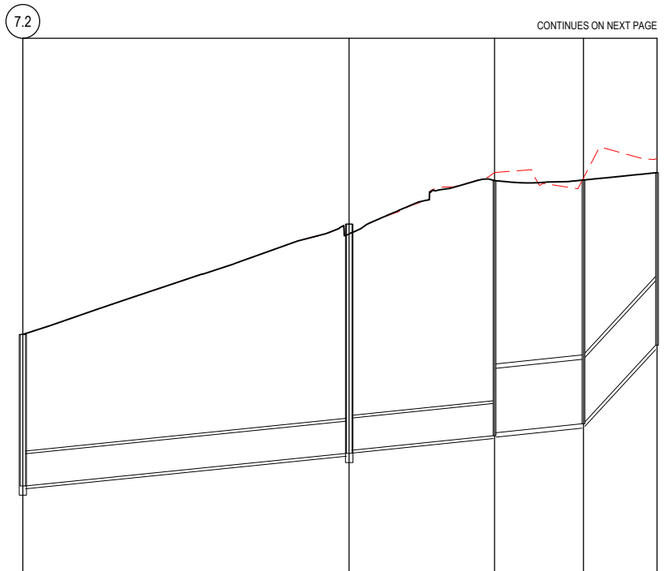
LINE 5



| | 6.2 | | | | | | | 6.1 |
|---|---|---|---|---|---|---|---|---|
| PIPE SIZE (mm) | | 900Ø | 1050Ø | 675Ø | 675Ø | 675Ø | 675Ø | 675Ø | |
| PIPE GRADE (%) | | 0.5% | 1% | 2.9% | 4.2% | 3.9% | 3.4% | 5.4% | |
| DATUM | -1.0 | | | | | | 3.0 | | |
| DEPTH TO INVERT | 1.487 | 1.487 | 2.171 | 3.231 | 2.563 | 2.098 | 2.068 | 2.024 | 1.994 | 2.270 | 2.240 | 2.024 |
| INVERT LEVEL | 2.897 | 2.897 | 2.925 | 3.139 | 3.808 | 4.993 | 5.023 | 5.938 | 5.968 | 7.478 | 7.508 | 8.852 | 8.882 | 10.122 |
| FINISHED SURFACE | 4.384 | | 5.096 | 6.370 | | 7.090 | | 7.962 | | 9.502 | | 11.121 | | 12.146 |
| EXISTING SURFACE | 7.161 | | 7.179 | 7.117 | | 7.177 | | 7.162 | | 6.757 | | 11.716 | | 11.994 |
| PIPE CHAINAGE | 0.000 | | 5.675 | 26.998 | | 68.121 | | 90.172 | | 128.668 | | 168.673 | | 191.515 |
| (Reach Length) | | (5.675) | | (21.323) | | (41.124) | | (22.050) | | (38.496) | | (40.005) | | (22.843) | |

LINE 6

CONTINUES ON NEXT PAGE



| | 7.2 | | | | | |
|---|---|---|---|---|---|---|
| PIPE SIZE (mm) | | 525Ø | 525Ø | 1050Ø | 1050Ø | |
| PIPE GRADE (%) | | 1% | 1% | 1% | 10.4% | |
| DATUM | 6.0 | | | | | |
| DEPTH TO INVERT | 2.471 | 2.471 | 3.738 | 3.688 | 4.160 | 4.110 | 3.974 | 3.944 | 2.813 |
| INVERT LEVEL | 10.250 | 10.250 | 10.782 | 10.832 | 11.069 | 11.119 | 11.264 | 11.294 | 12.545 |
| FINISHED SURFACE | 12.720 | | 14.520 | | 15.229 | | 15.238 | | 15.358 |
| EXISTING SURFACE | 12.720 | | 14.359 | | 15.449 | | 15.382 | | 15.596 |
| PIPE CHAINAGE | 0.000 | | 53.223 | | 76.945 | | 91.445 | | 103.445 |
| (Reach Length) | | (53.223) | | (23.722) | | (14.500) | | (12.000) | |

LINE 400

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mirvac

HORIZ 1:500 0 5 10 20 30
VERT 1:50 0 0.5 1 2 3
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
| DA Number | - |

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ph: 02 46255055
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| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | DRAINAGE LONGITUDINAL SECTIONS SHEET 4 OF 6 |

Sheet 113 of 145
Scale 1:500 H 1:50 V @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 604 | B |

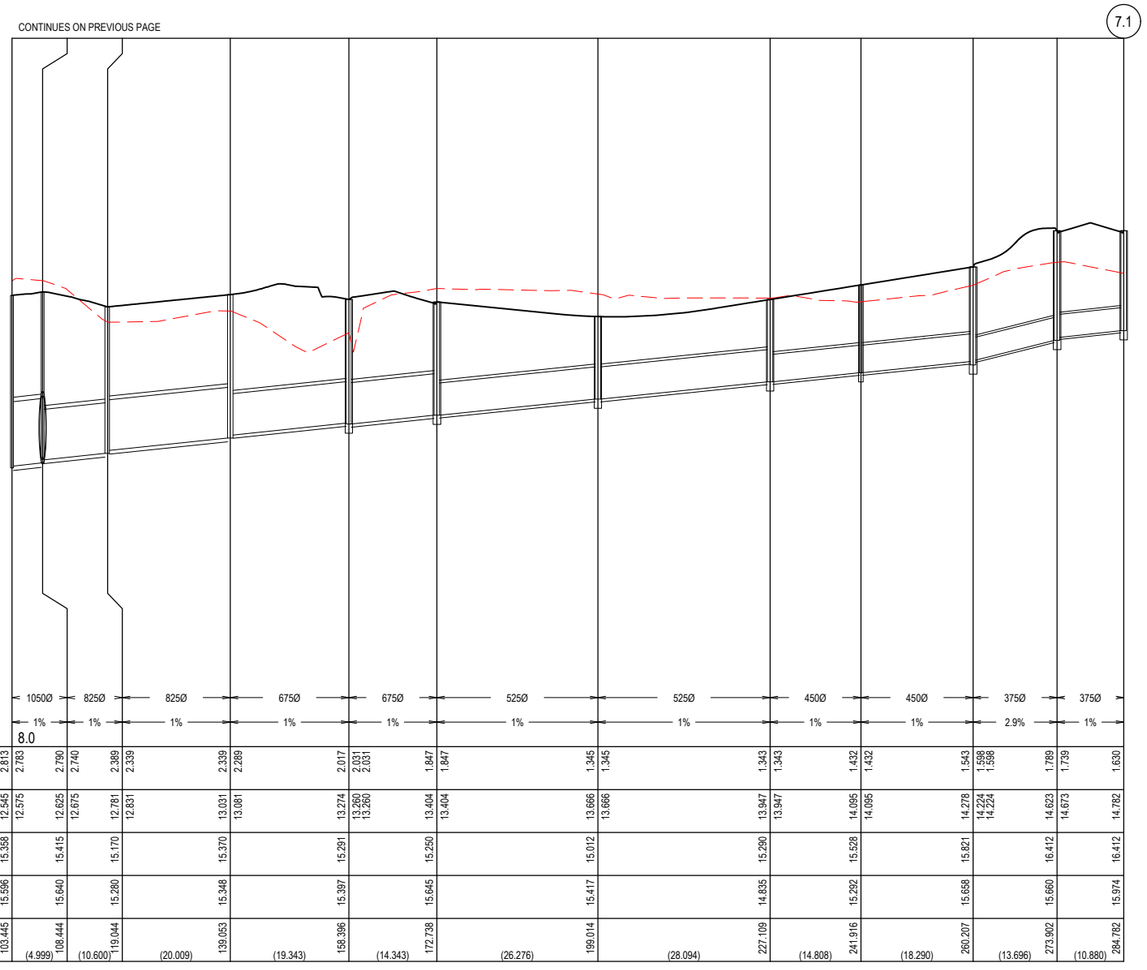
F:\synergytemp\12dSynergy\12dSynergyServerService\3192\e7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-600-DLS.dwg

NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

LEGEND
EXISTING SURFACE
DESIGN SURFACE

CONTINUES ON PREVIOUS PAGE

CONTINUES ON NEXT PAGE



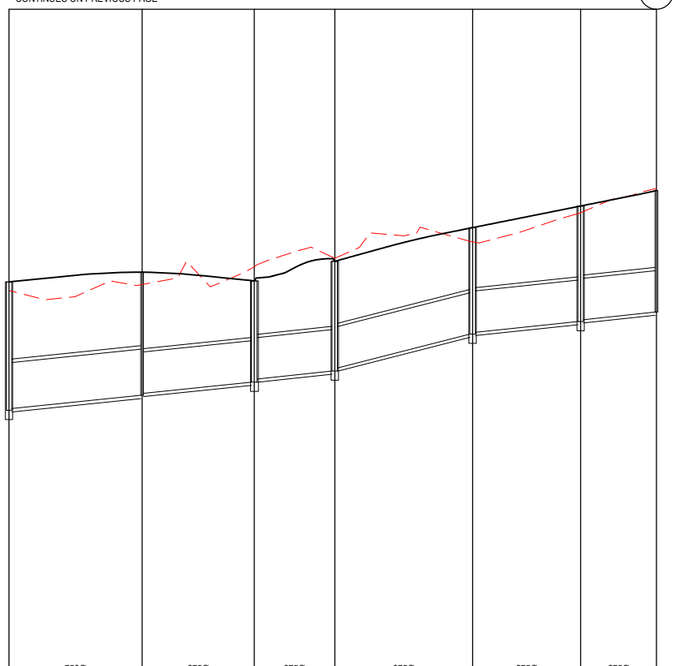

| | | |

NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

LEGEND
EXISTING SURFACE
DESIGN SURFACE

CONTINUES ON PREVIOUS PAGE

8.1



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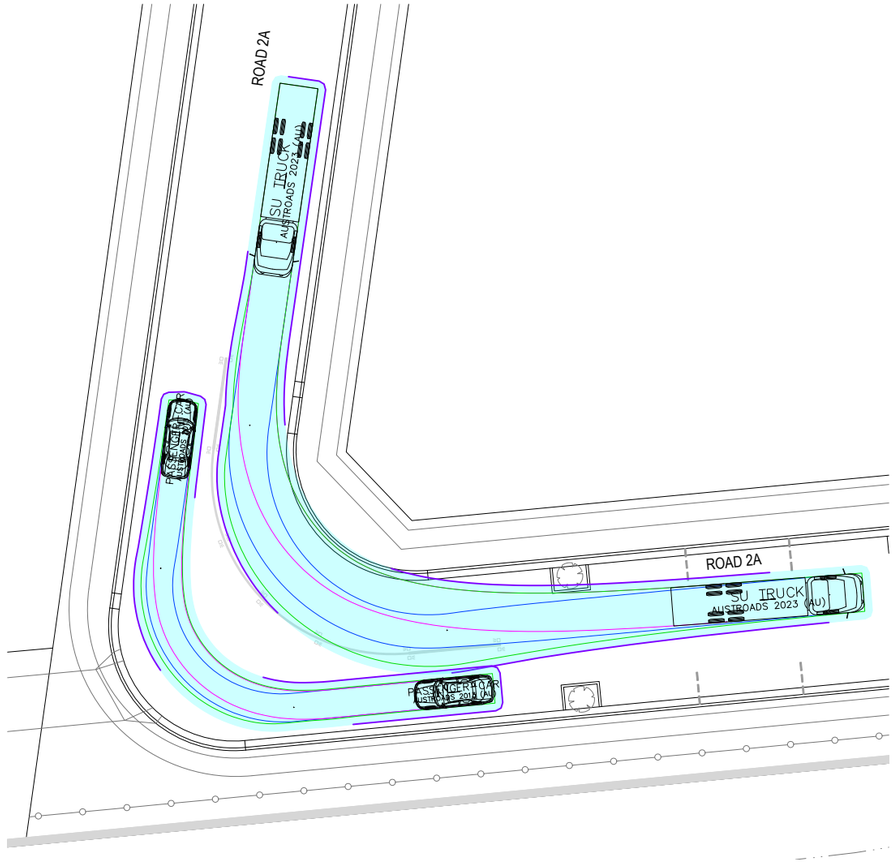
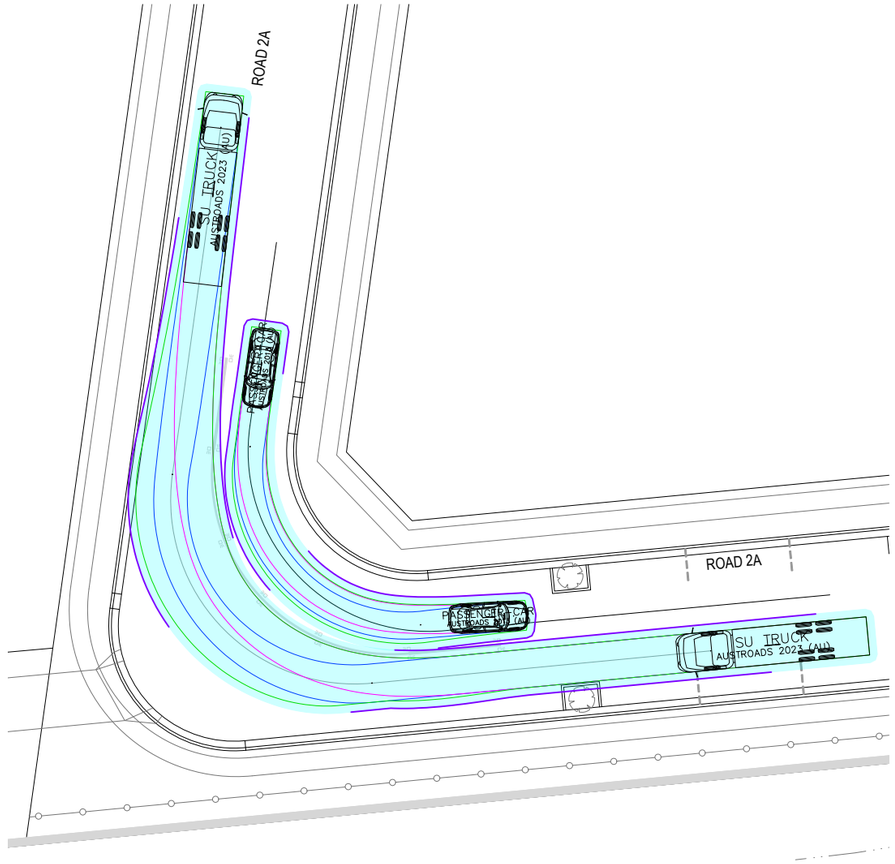



CAR OUTSIDE / SU TRUCK INSIDE

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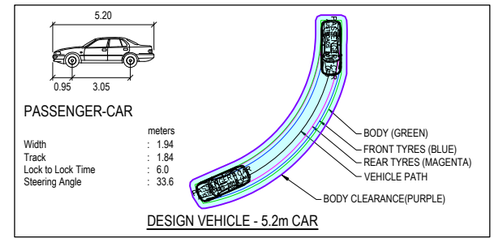
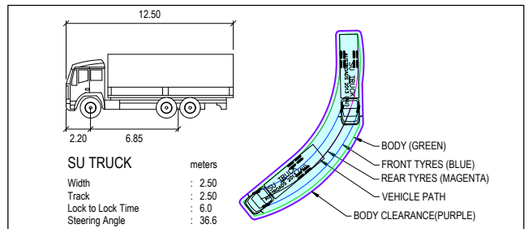
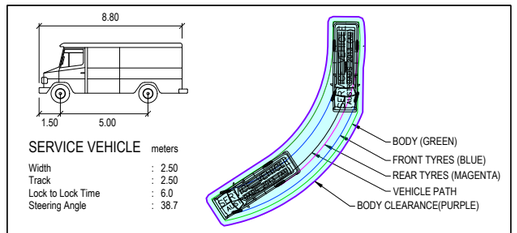


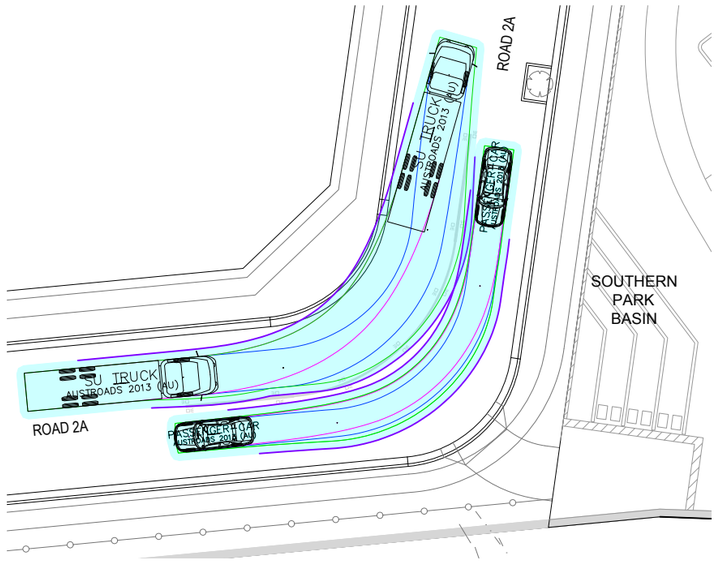

DESIGN VEHICLE - 5.2m CAR



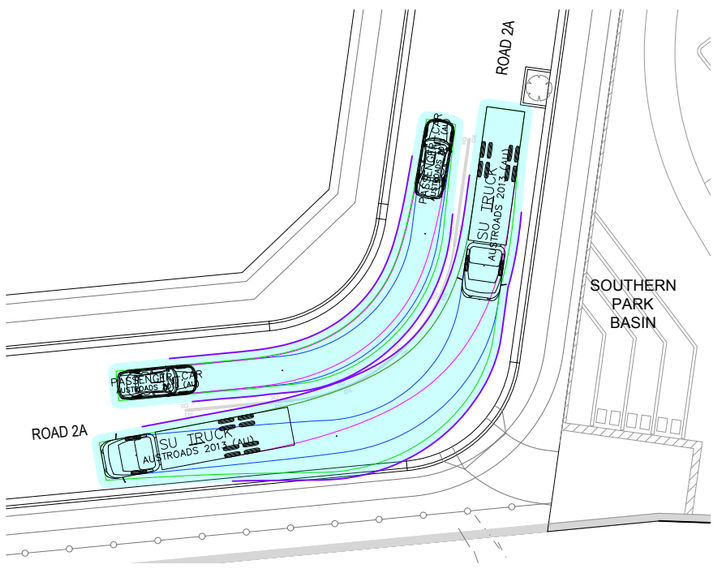

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




DESIGN VEHICLE - 8.8m SERVICE VEHICLE




CAR OUTSIDE / SU TRUCK INSIDE




CAR INSIDE / SU TRUCK OUTSIDE

SERVICE VEHICLE INTO SOUTHERN BASIN

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

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0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 29.10.25 |
| DA Number | - |

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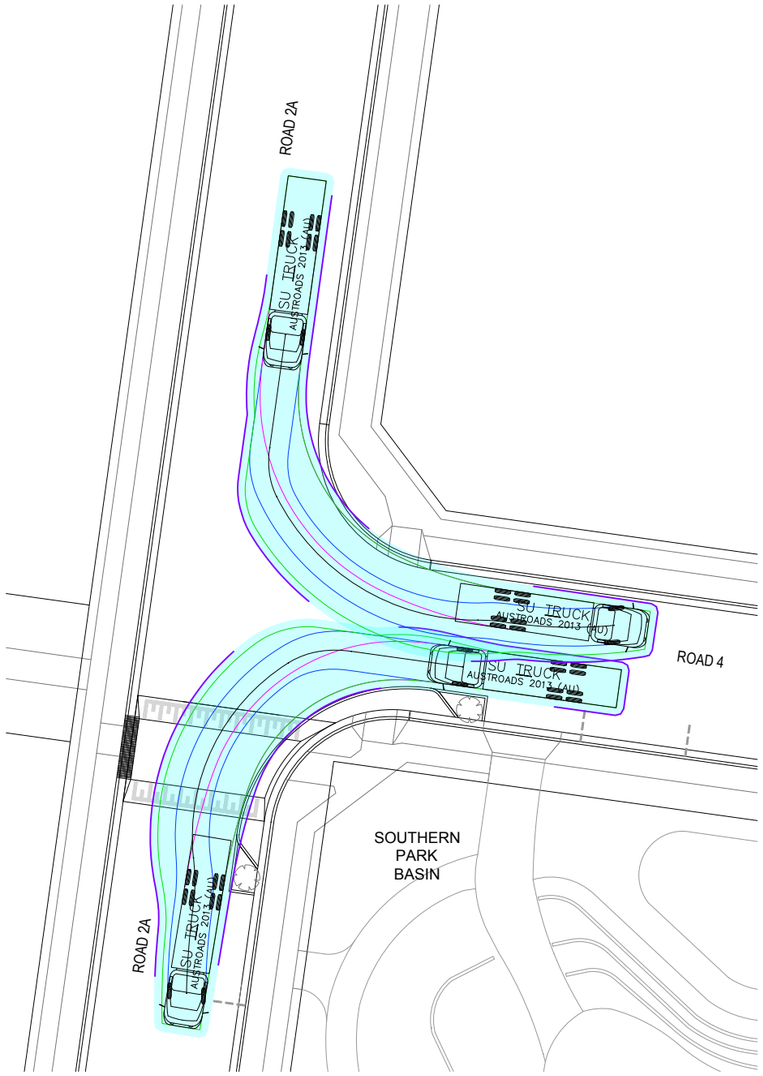
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 1 OF1 8

Sheet 116 of145
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 700 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192e7b132b3-de5d-411e-a345-45f5767f7ffd\2301879-321-700-TURN.dwg

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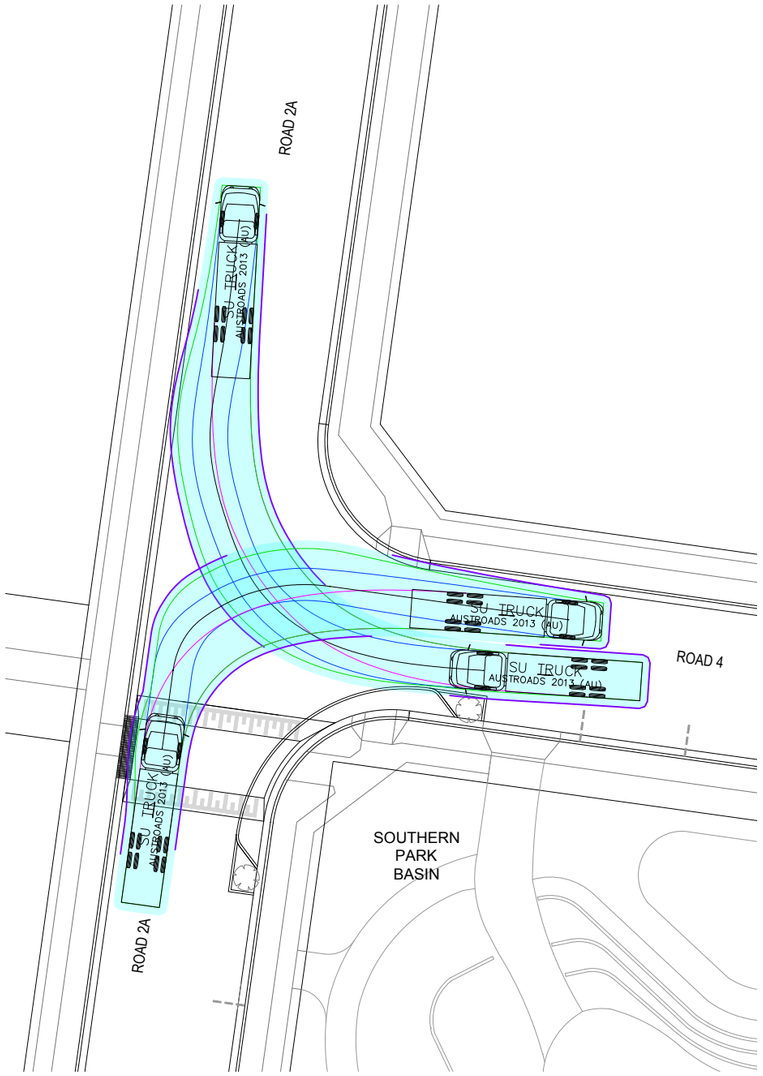


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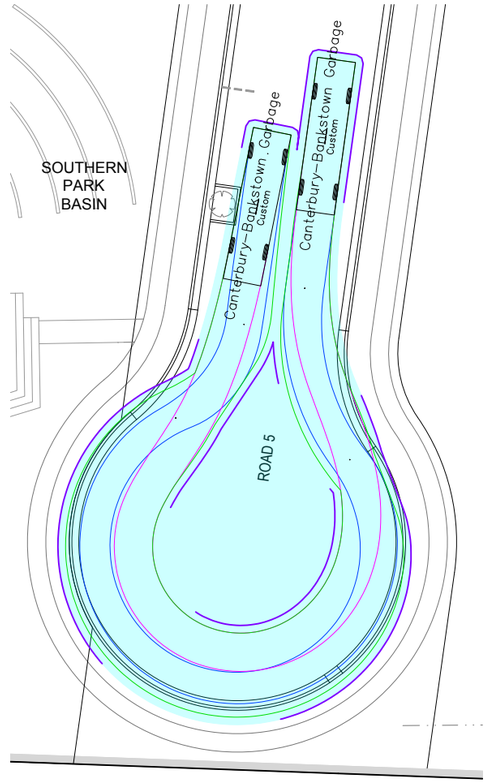
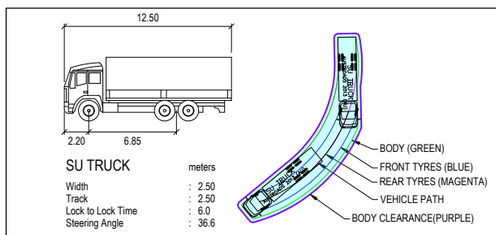
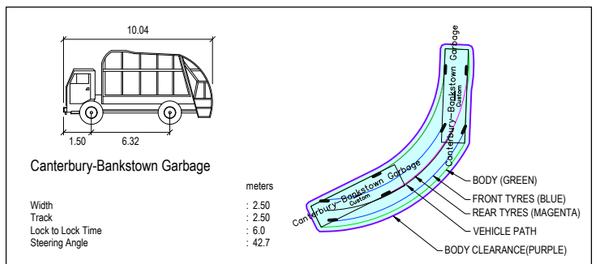



TURN AROUND AREA
(CANTERBURY-BANKSTOWN GARBAGE)




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




DESIGN VEHICLE - 10.04m CANTERBURY-BANKSTOWN GARBAGE

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| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 29.10.25 |
| DA Number | - |

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Oran Park NSW 2570
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 2 OF 18

Sheet 117 of145
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 701 | B |

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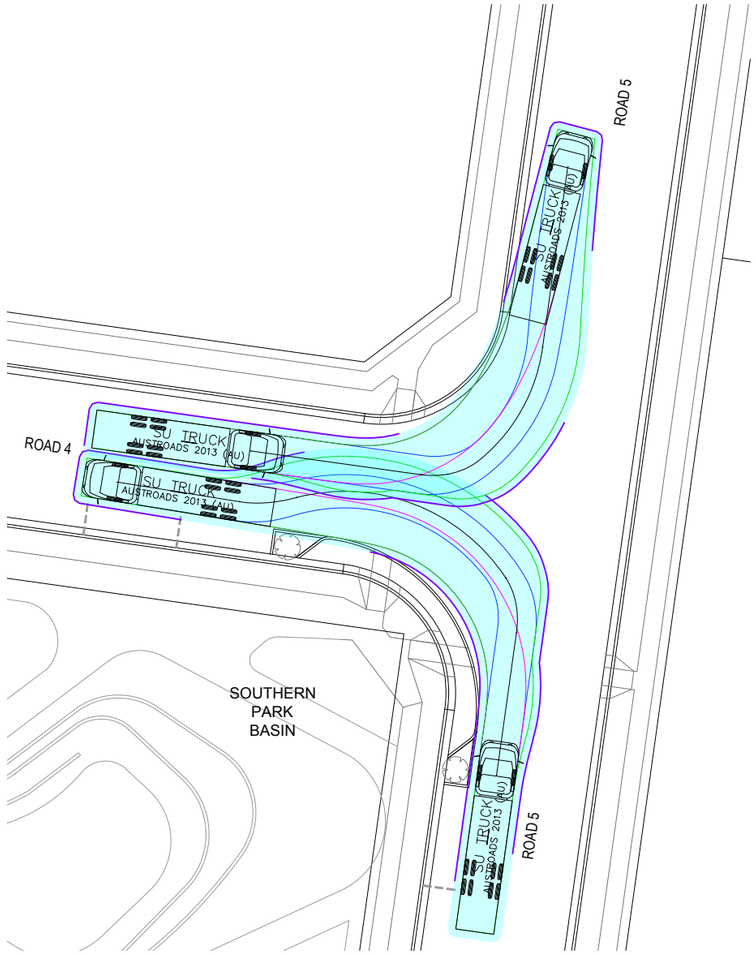


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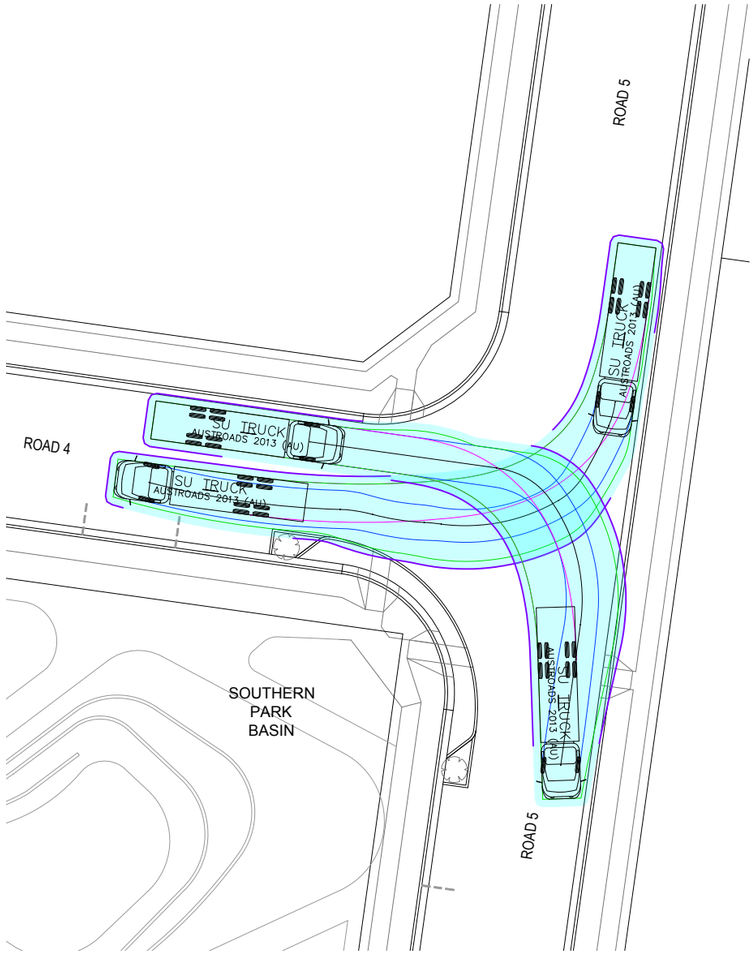
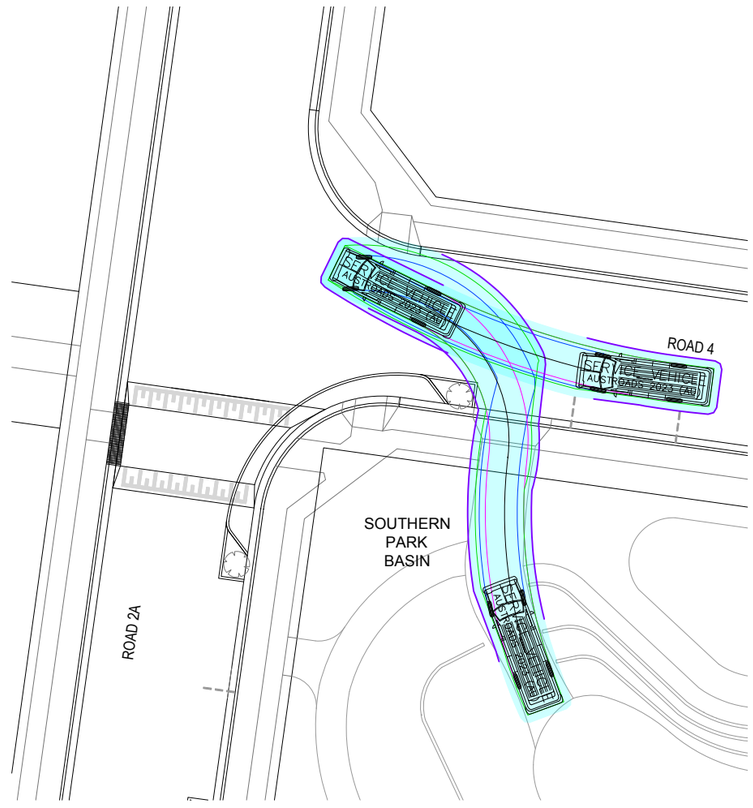
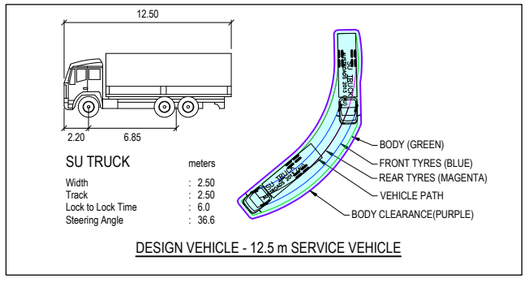


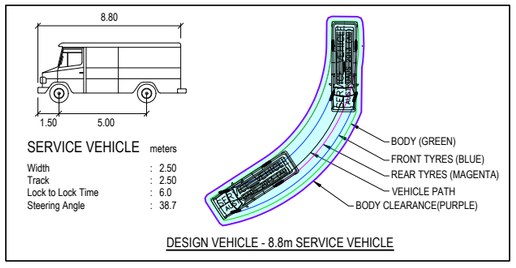

SU TRUCK - RIGHT IN / RIGHT OUT



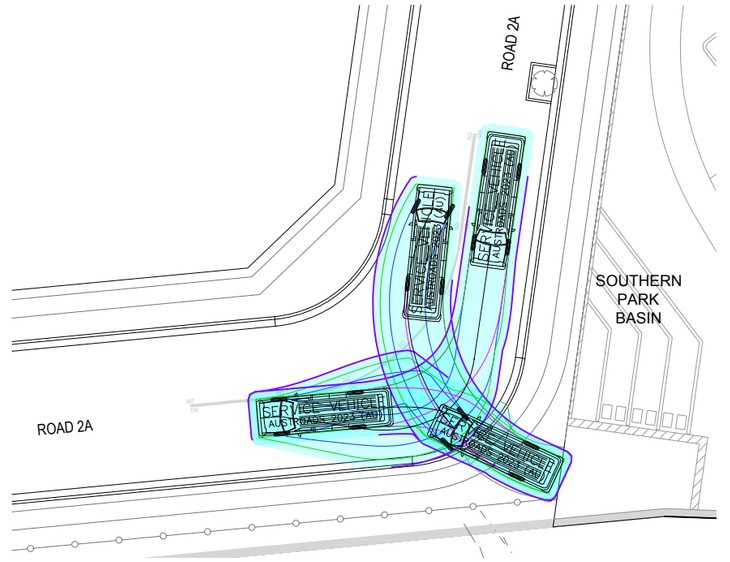

SERVICE VEHICLE INTO SOUTHERN BASIN




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




DESIGN VEHICLE - 8.8m SERVICE VEHICLE

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 29.10.25 |
| DA Number | - |

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Oran Park NSW 2570
ph: 02 46255055
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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS SHEET 3 OF 18 |

Sheet 118 of145

Scale 1:200 @ A1

N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 702 | B |

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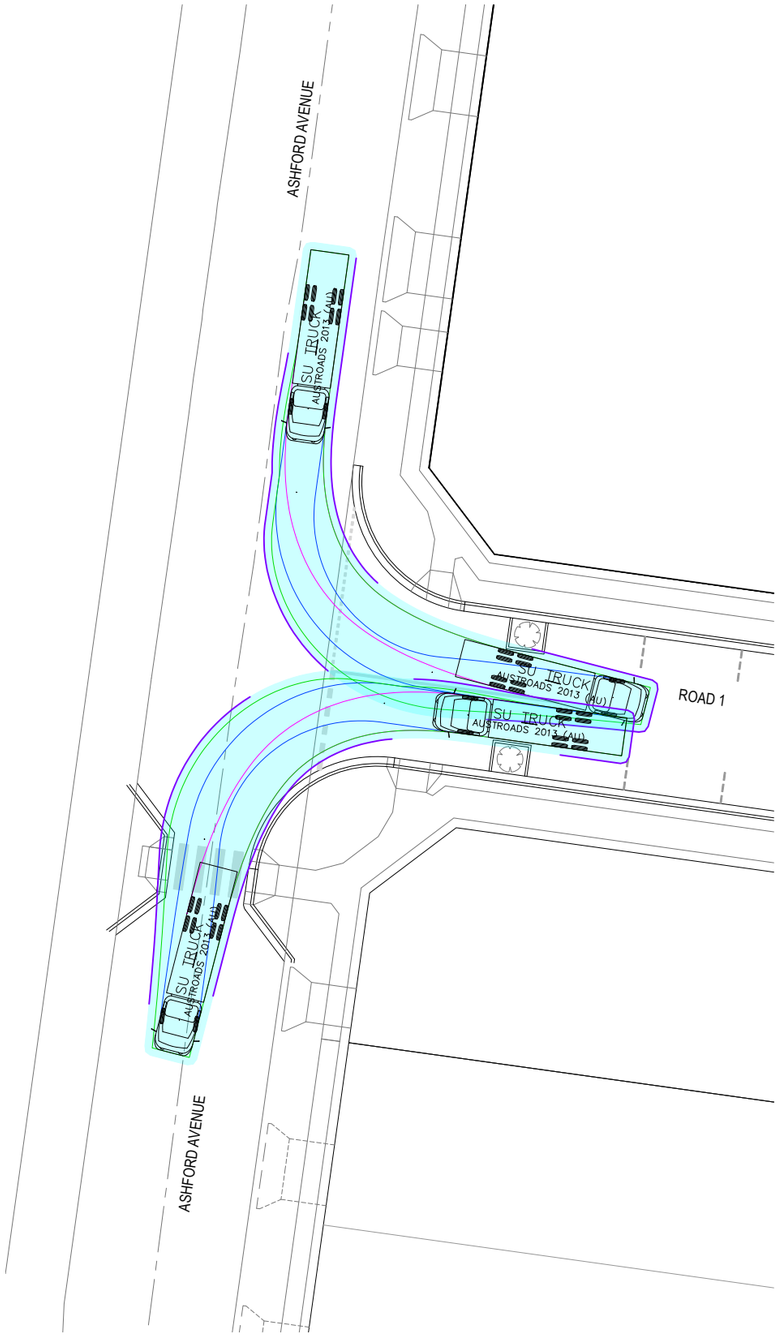


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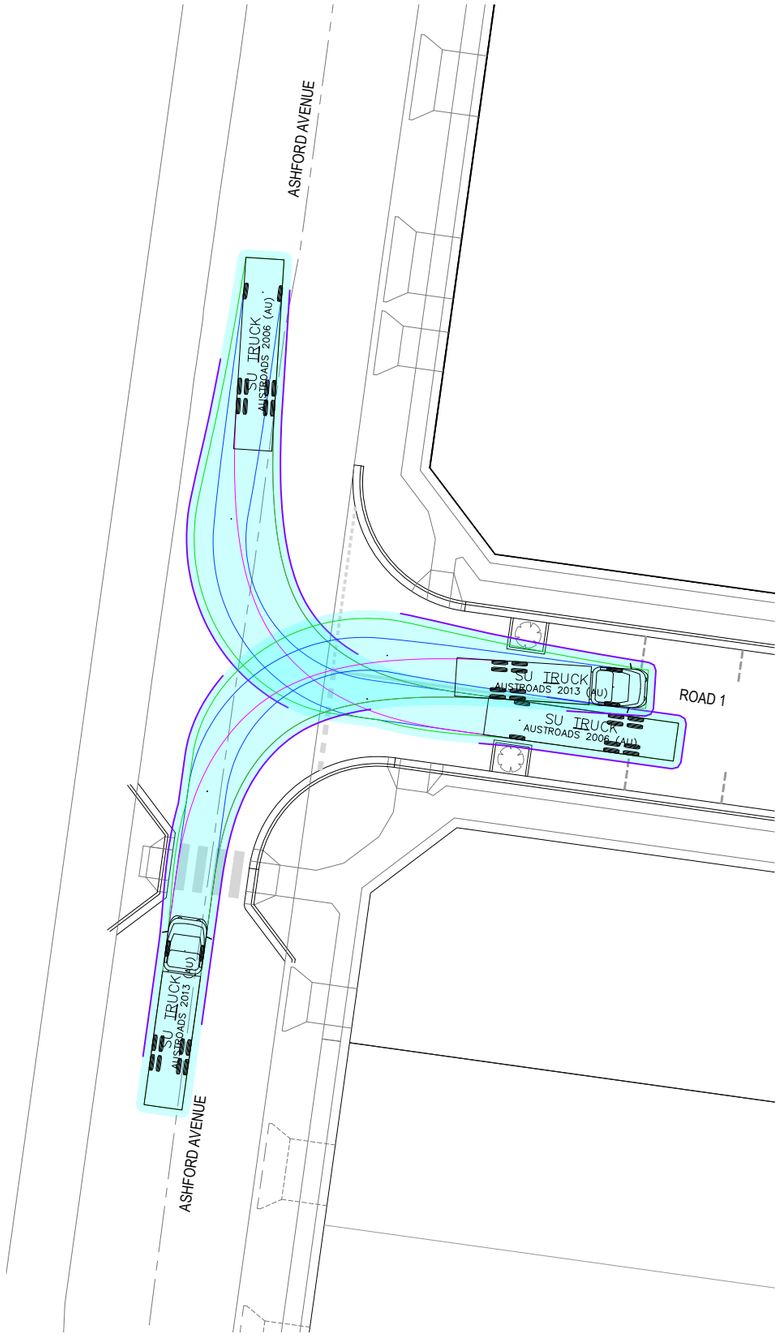


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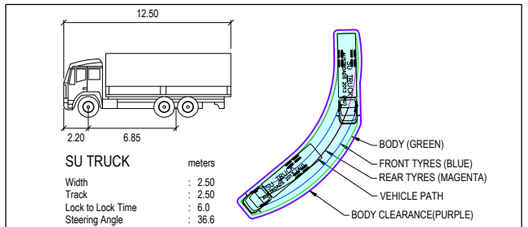


DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

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0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 29.10.25 |
| DA Number | - |

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Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS<br>SHEET 4 OF 18 |

Sheet 119 of145
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 703 | B |

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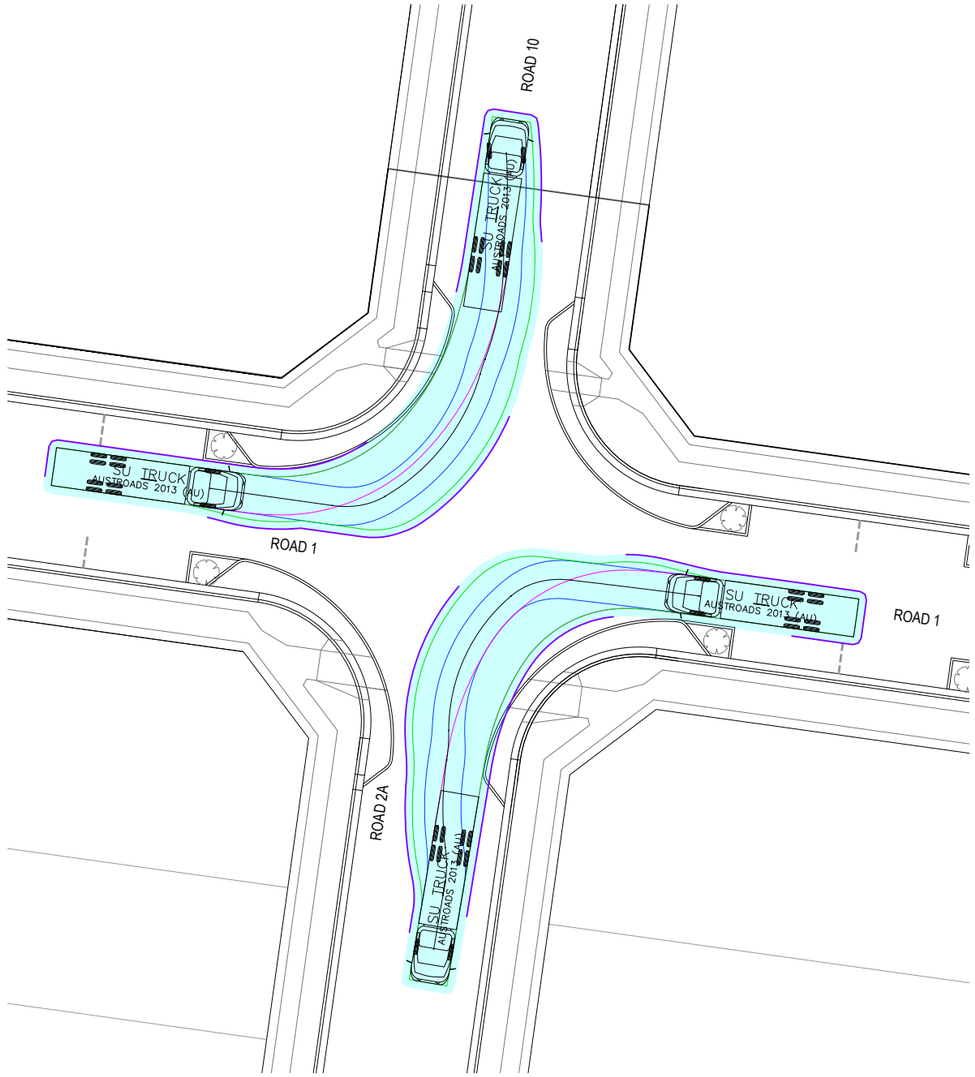


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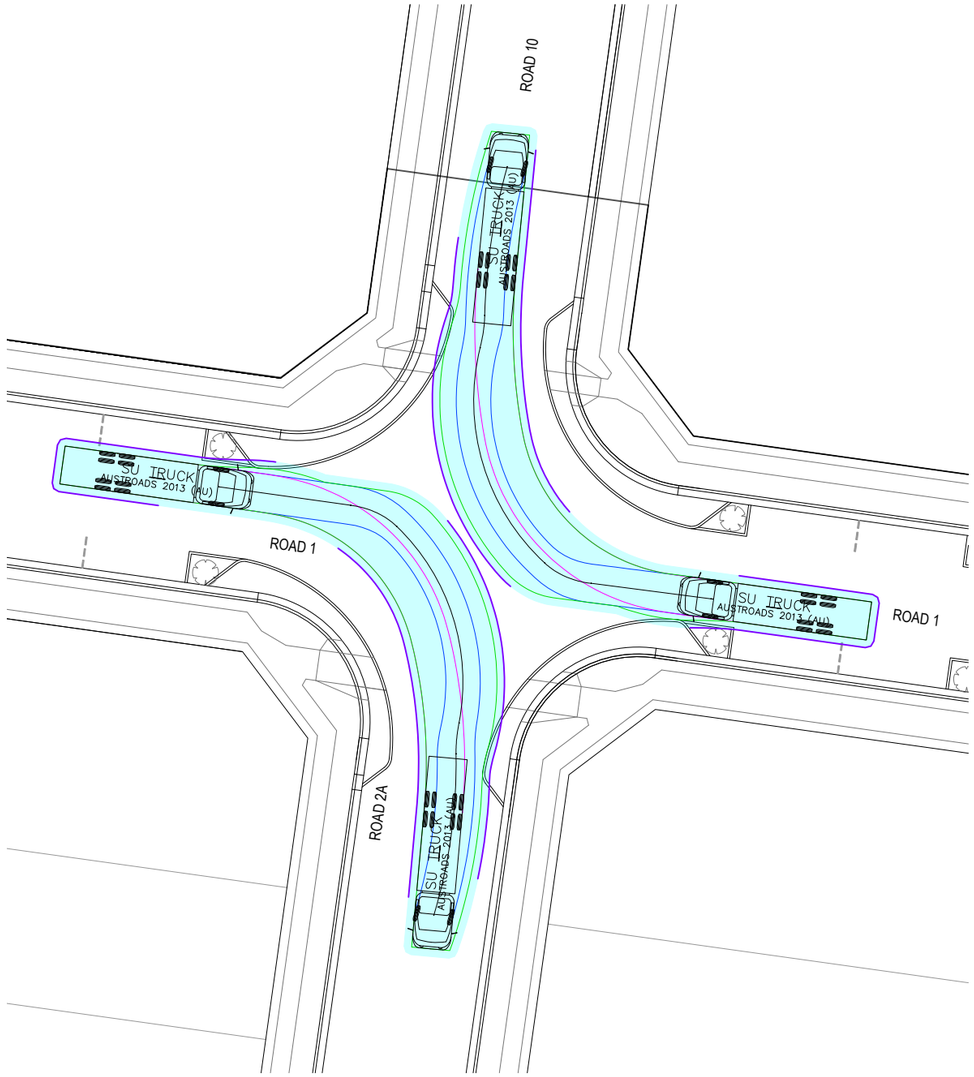
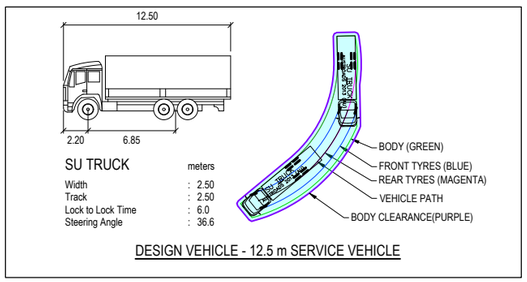



SU TRUCK - RIGHT IN / RIGHT OUT




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 29.10.25 |
| DA Number | - |

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Oran Park NSW 2570
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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS<br>SHEET 5 OF 18 |

Sheet 120 of145

Scale 1:200 @ A1

N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 704 | B |

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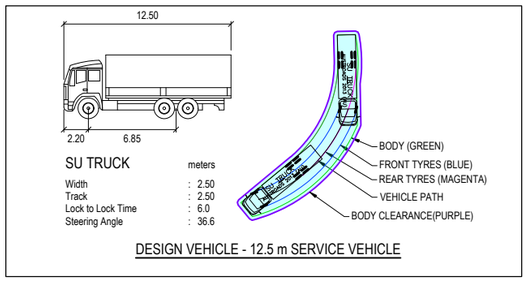
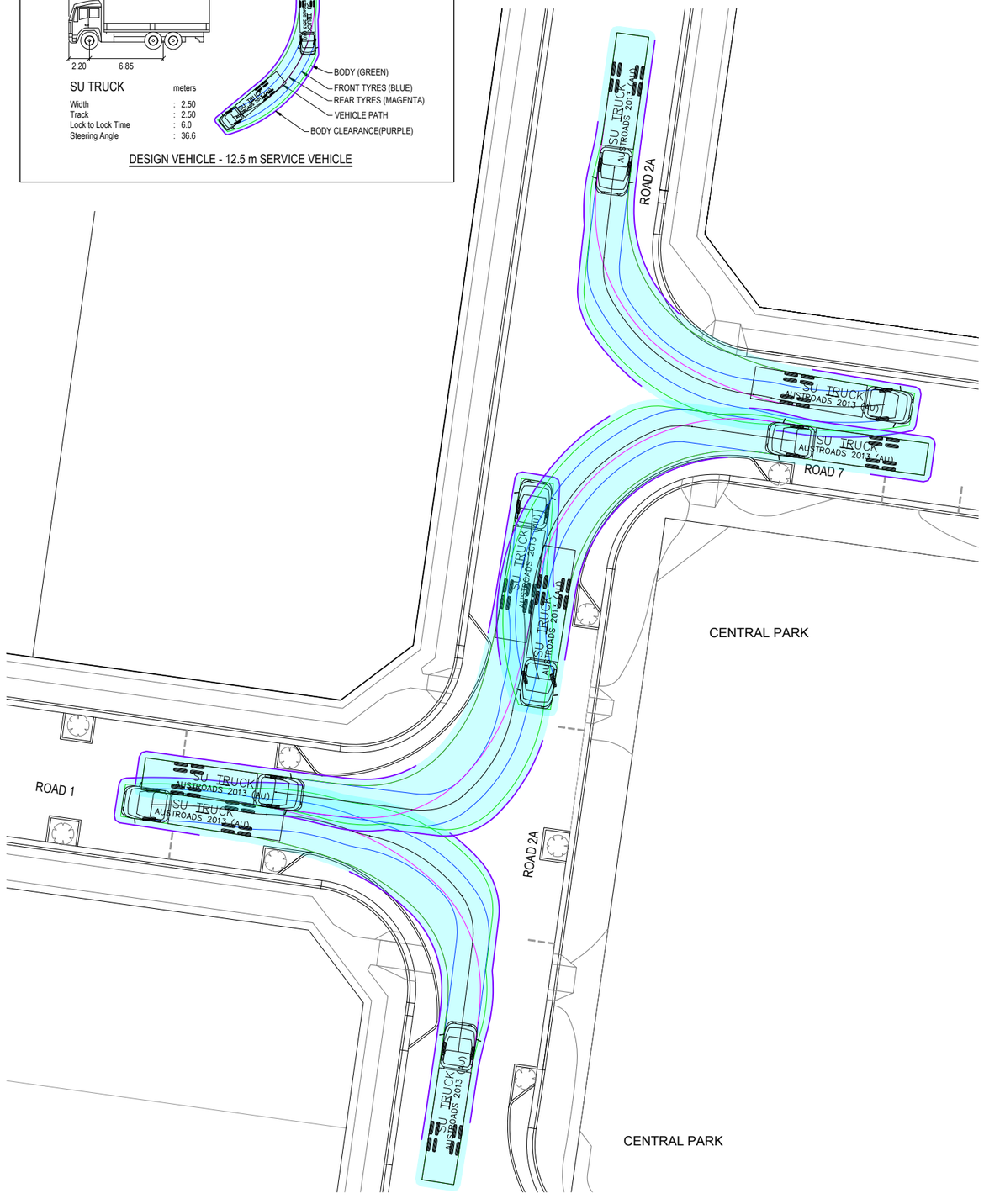


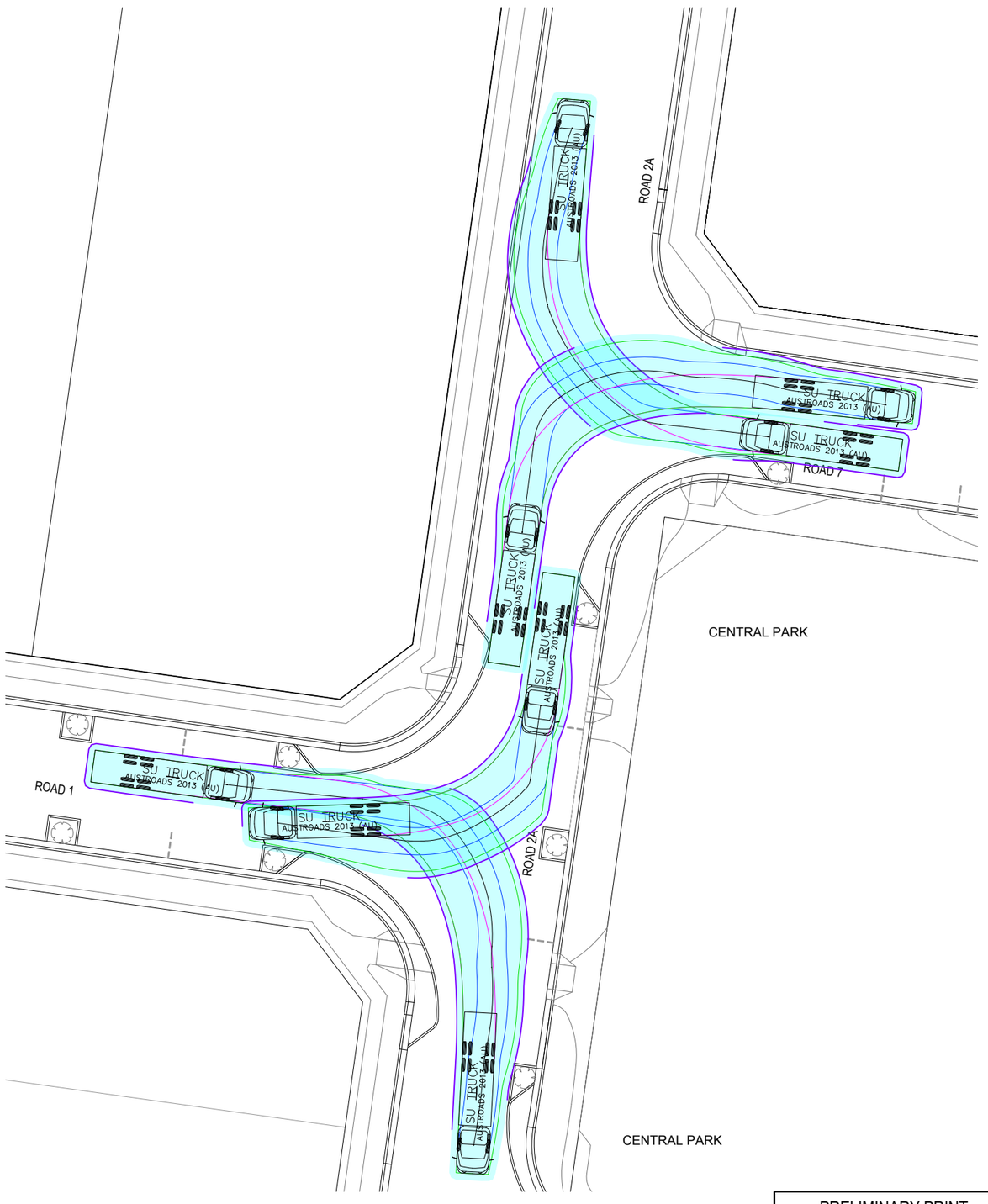

SU TRUCK meters

| | | |
|---|---|---|
| Width | : | 2.50 |
| Track | : | 2.50 |
| Lock to Lock Time | : | 6.0 |
| Steering Angle | : | 36.6 |

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




SU TRUCK - LEFT IN / LEFT OUT




SU TRUCK - RIGHT IN / RIGHT OUT

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 29.10.25 |
| DA Number | - |

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Development & Infrastructure Consultants
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Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 6 OF 18

Sheet 121 of145

Scale: 1:200 @ A1

N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 705 | B |

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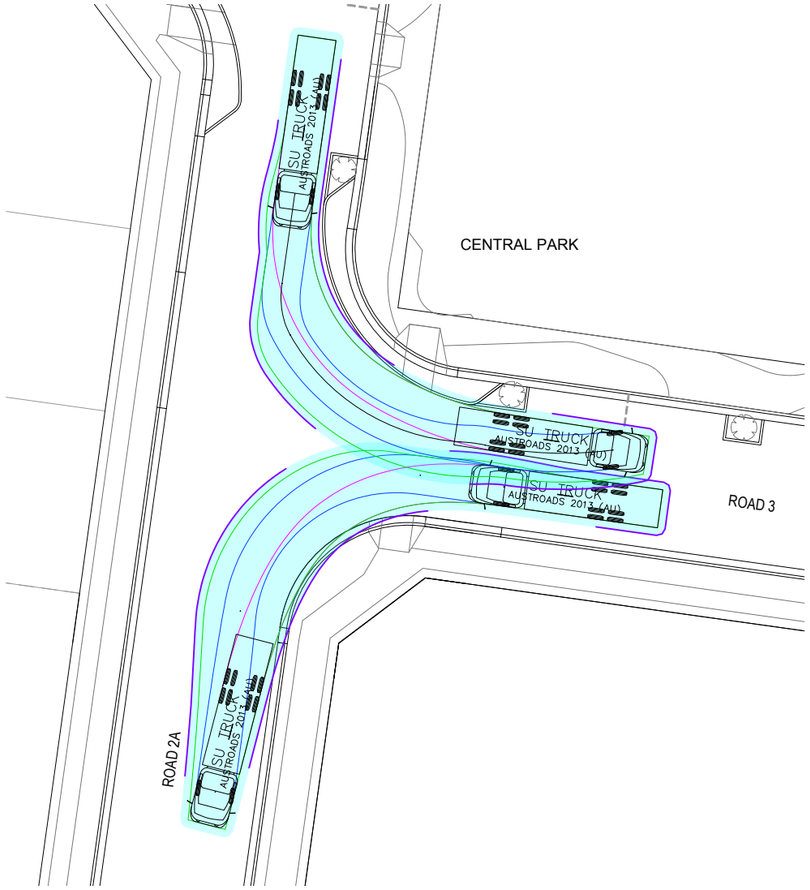
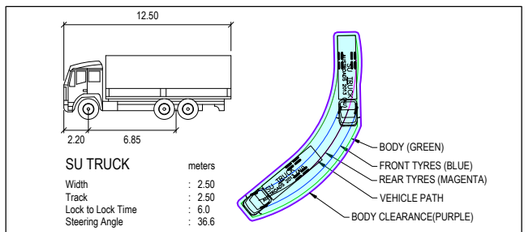
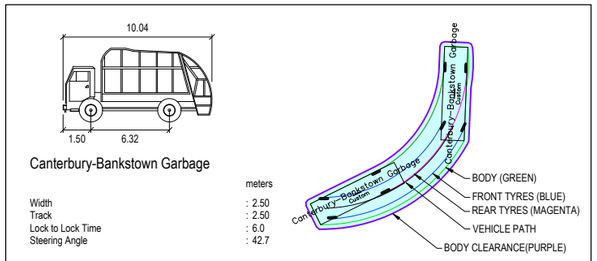


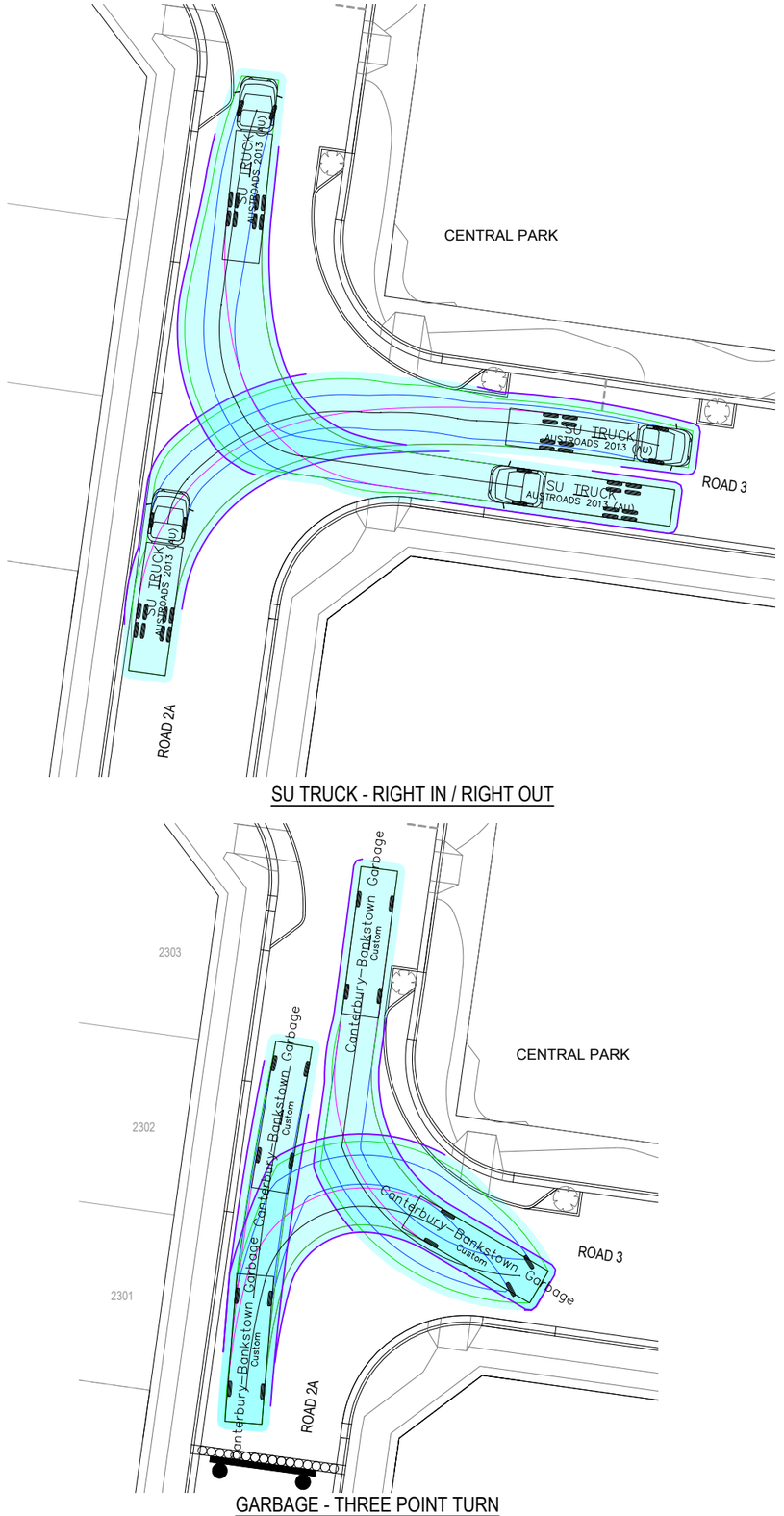

SU TRUCK - LEFT IN / LEFT OUT




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE



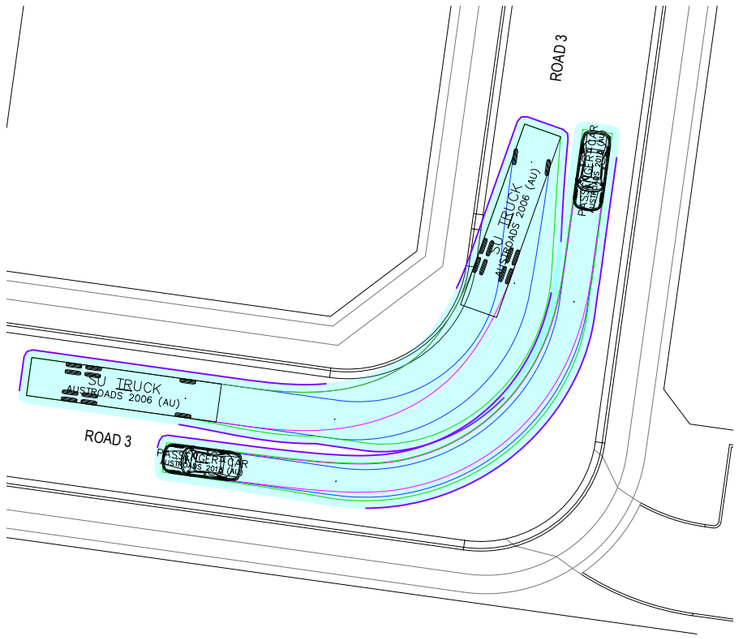

DESIGN VEHICLE - 10.04m Canterbury-Bankstown Garbage



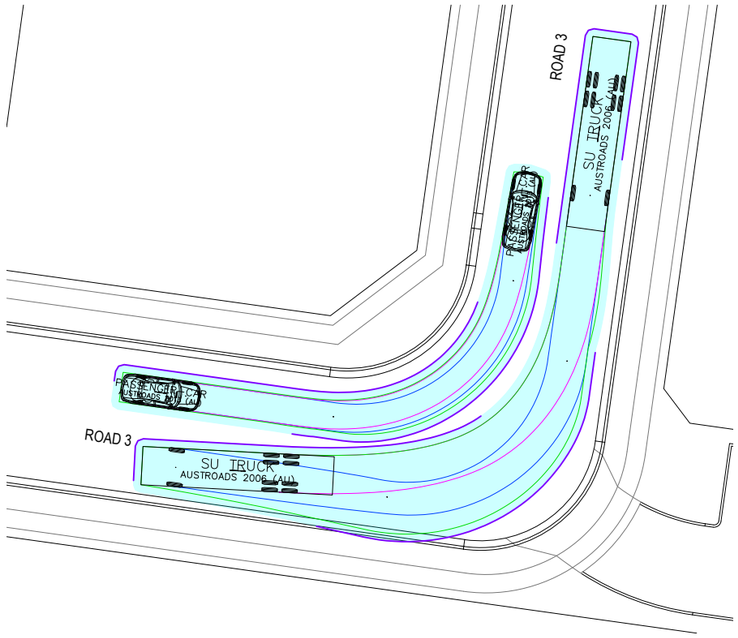

SU TRUCK - RIGHT IN / RIGHT OUT




GARBAGE - THREE POINT TURN




CAR OUTSIDE / SU TRUCK INSIDE




CAR INSIDE / SU TRUCK OUTSIDE

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 29.10.25 |
| DA Number | - |

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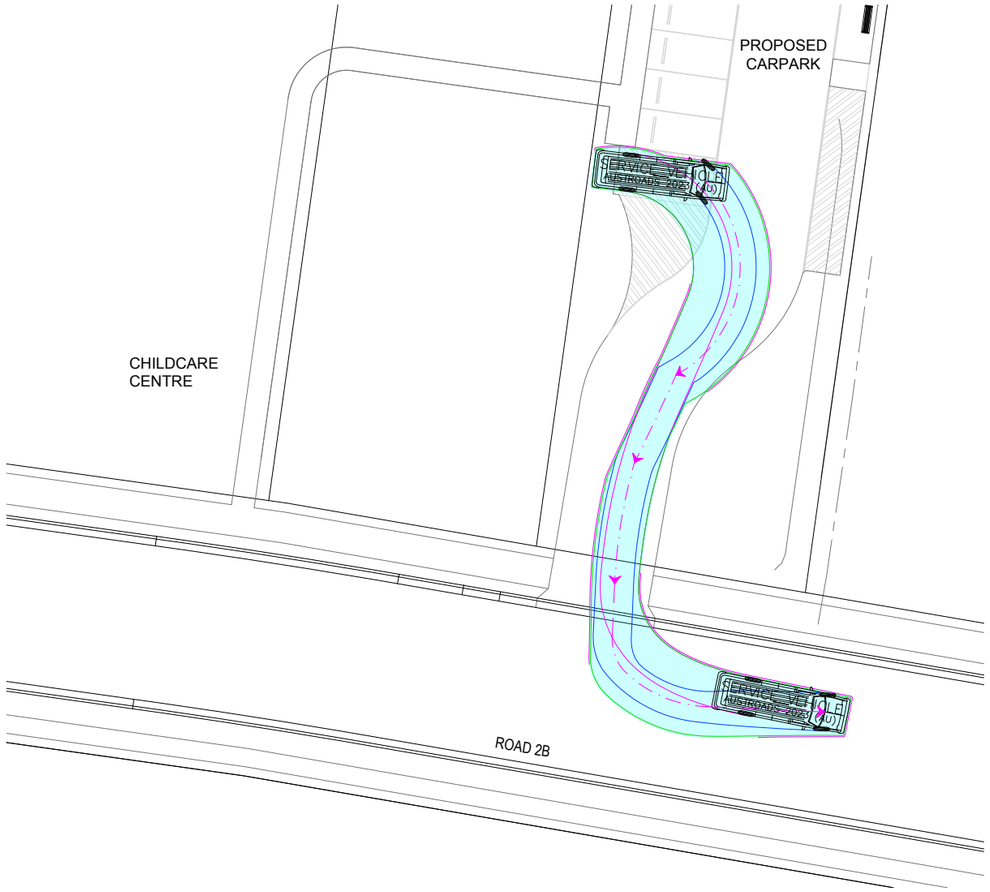
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 7 OF 18

Sheet 122 of145
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 706 | B |

F:\synergytemp\12dSynergy\12dSynergyServerService\3192e7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-700-TURN.dwg

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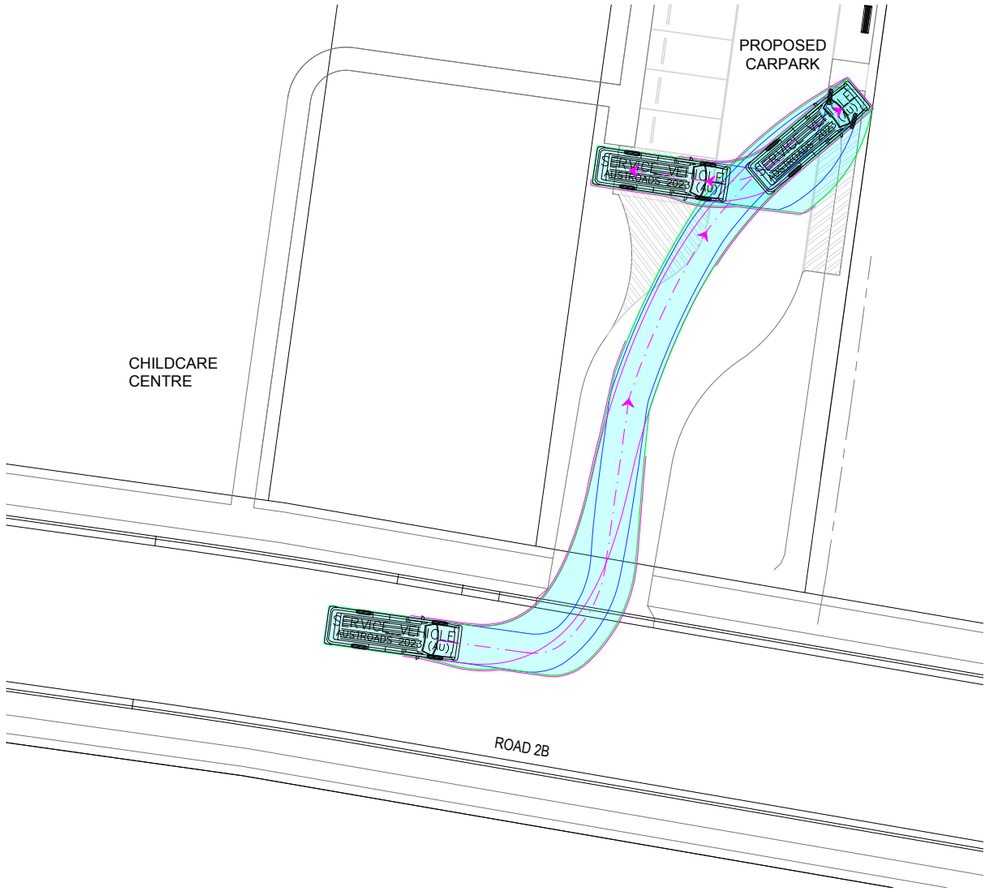
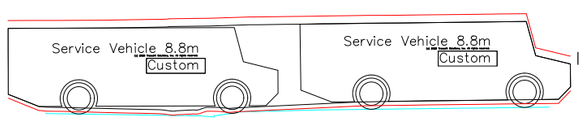


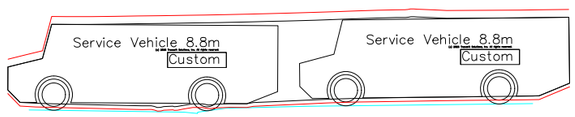

SV TRUCK - VEHICLE ENTERING




Ground Clearance (units: m)

| Part # | Front | Wheelbase | Rear |
|---|---|---|---|
| #1 | 0.25 | 0.25 | 0.25 |

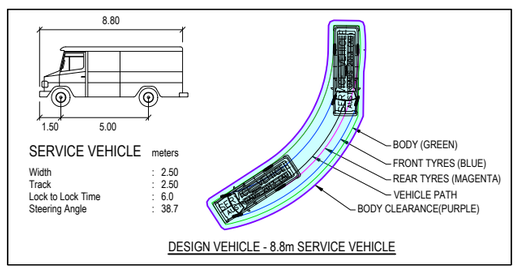
8.8m SERVICE VEHICLE - CHILDCARE CARPARK ENTRY VERTICAL CLEARANCE




Ground Clearance (units: m)

| Part # | Front | Wheelbase | Rear |
|---|---|---|---|
| #1 | 0.25 | 0.25 | 0.25 |

8.8m SERVICE VEHICLE - CHILDCARE CARPARK EXIT VERTICAL CLEARANCE




DESIGN VEHICLE - 8.8m SERVICE VEHICLE

LEGEND

ROAD ALIGNMENT

BODY CLEARANCE

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16

SCALE 1:200 AT A1 SIZE

Designed R. GOVENDER
Date 23.06.2025
Drawn D.RAFTER
Approved
Date 29.10.25
DA Number -

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 8 OF 18

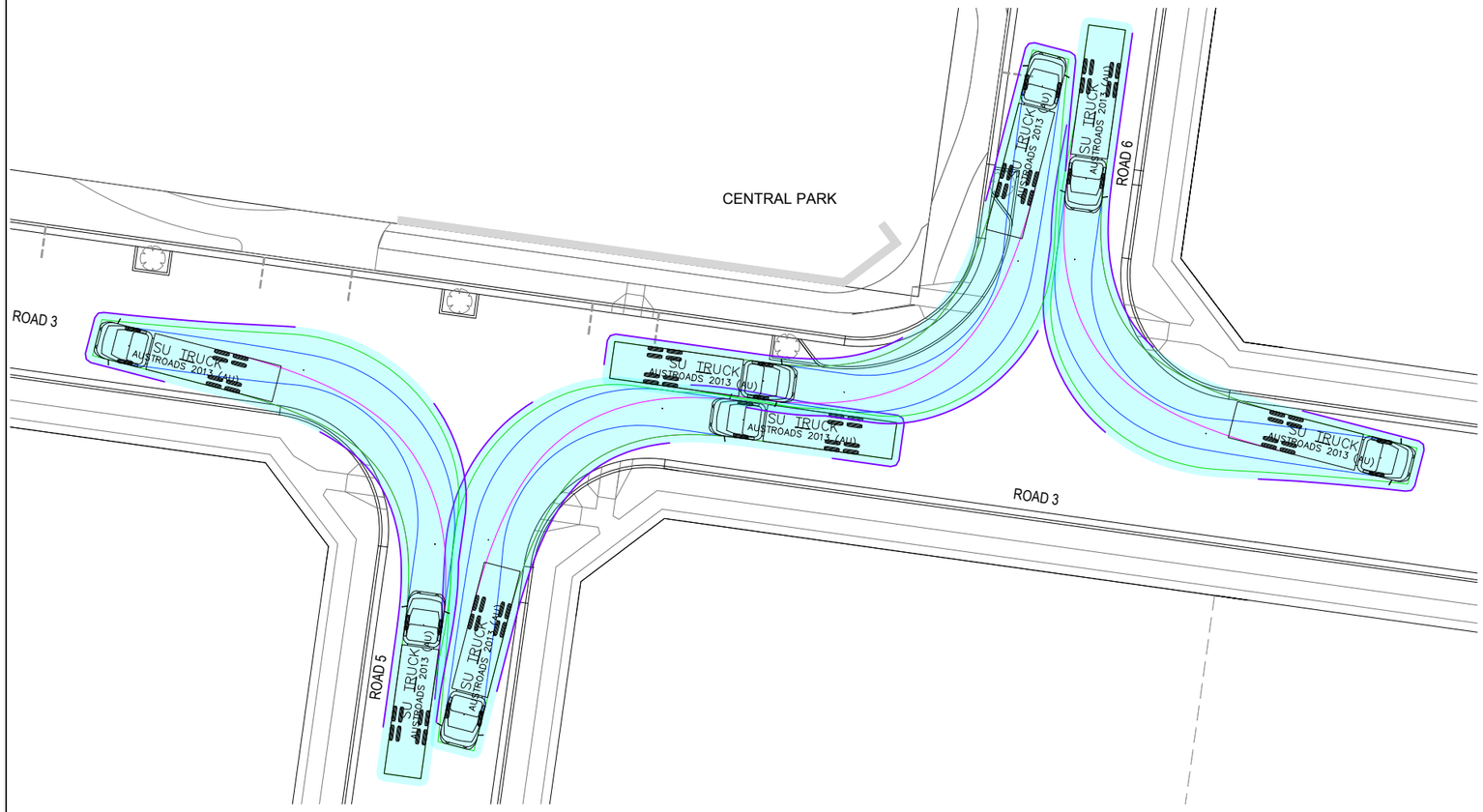
Sheet 123 of145

Scale 1:200 @ A1

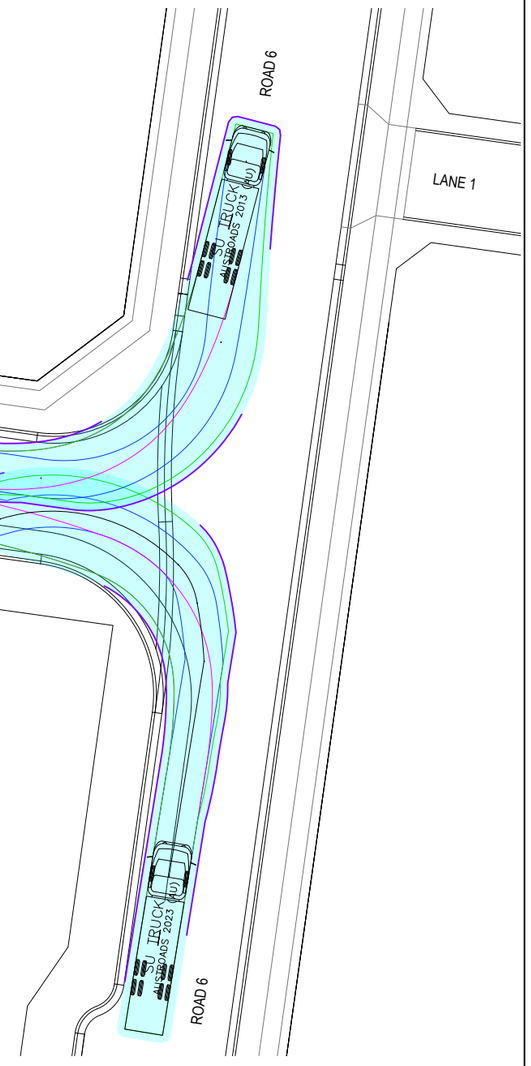
N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 707 | C |

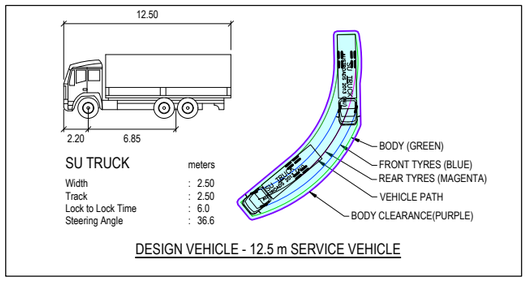
F:\synergy\temp\12dSynergy\12dSynergyServerService\3192e7b132b3-de5d-411e-a345-45f57677f7fd\2301879-321-700-TURN.dwg




SU TRUCK - LEFT IN / LEFT OUT




SU TRUCK - LEFT IN / LEFT OUT




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 29.10.25 |
| DA Number | - |

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ph: 02 46255055
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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS SHEET 9 OF 18 |

Sheet 124 of145

Scale 1:200 @ A1

N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 708 | B |

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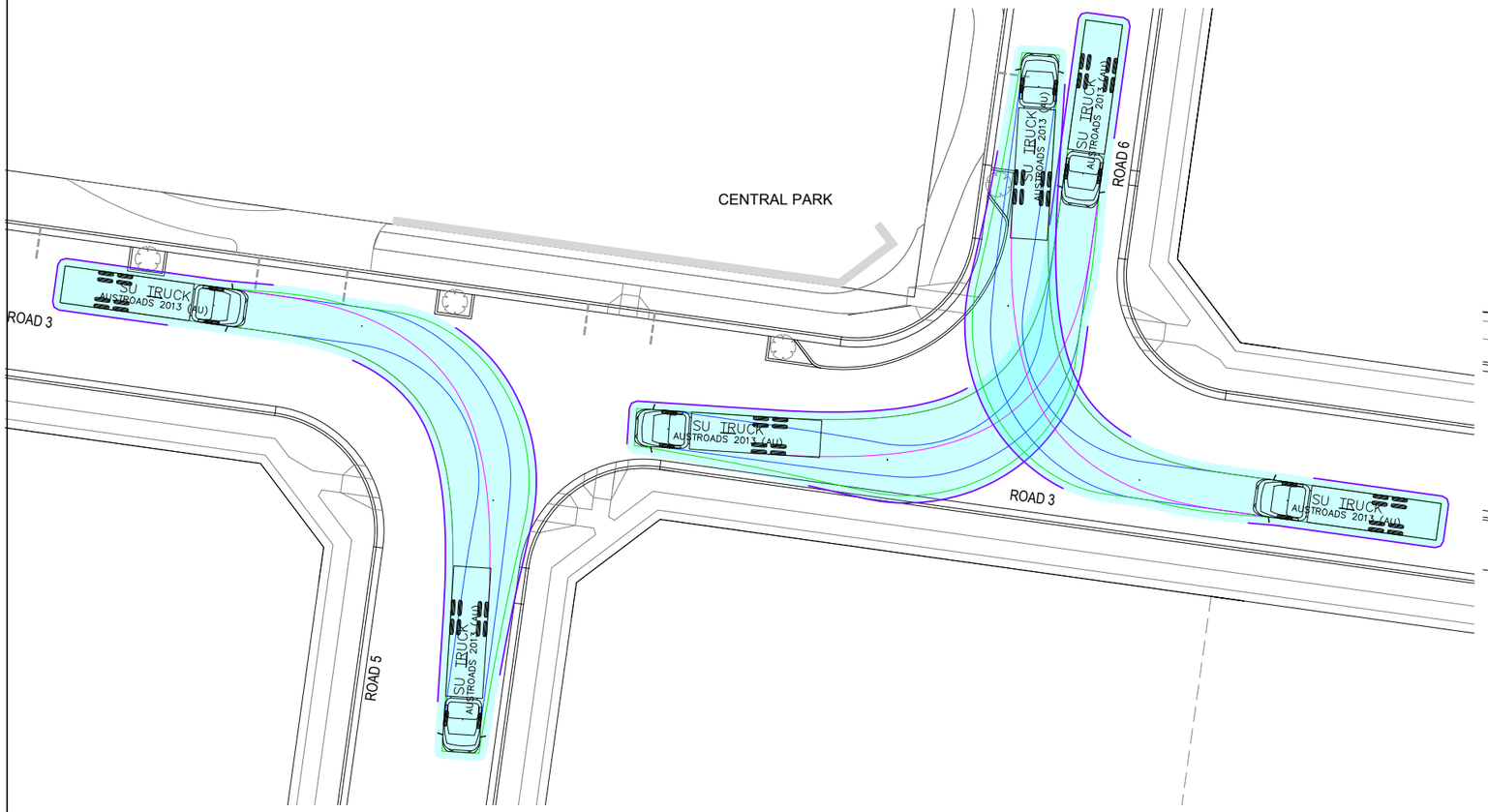
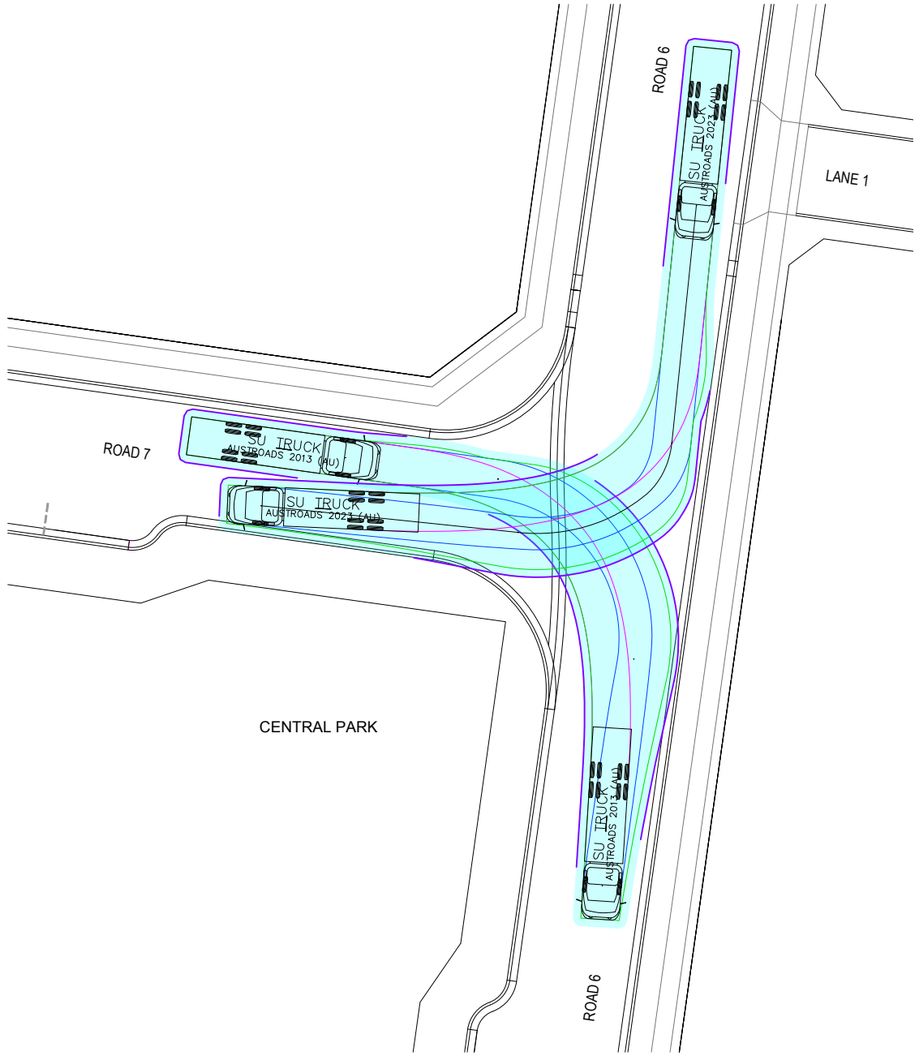
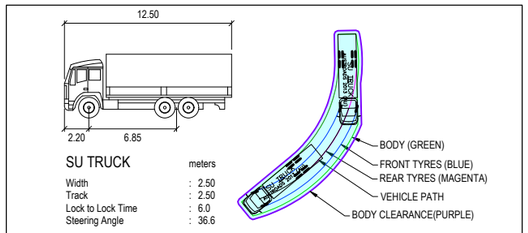



SU TRUCK - RIGHT IN / RIGHT OUT




SU TRUCK - RIGHT IN / RIGHT OUT




SU TRUCK meters

| | | |
|---|---|---|
| Width | : | 2.50 |
| Track | : | 2.50 |
| Lock to Lock Time | : | 6.0 |
| Steering Angle | : | 36.6 |

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 29.10.25 |
| DA Number | - |

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Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS SHEET 10 OF 18

Sheet 125 of145

Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 709 | B |

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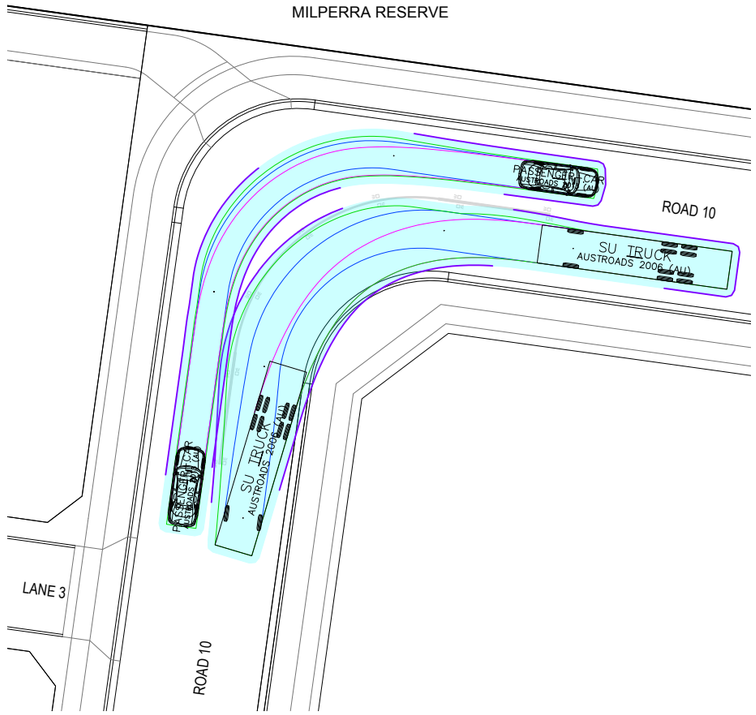
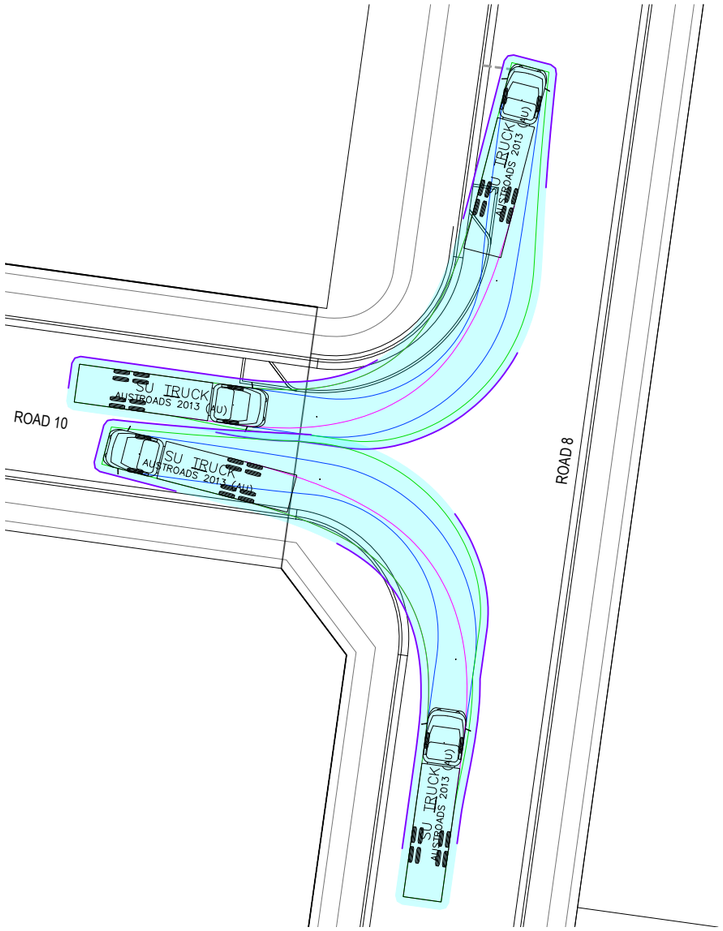
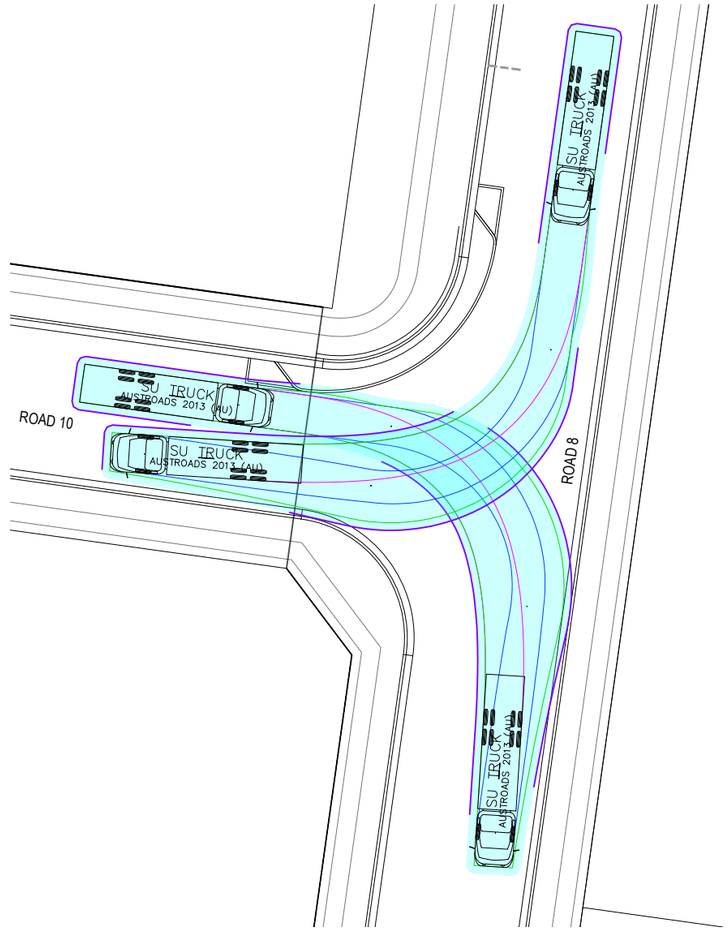


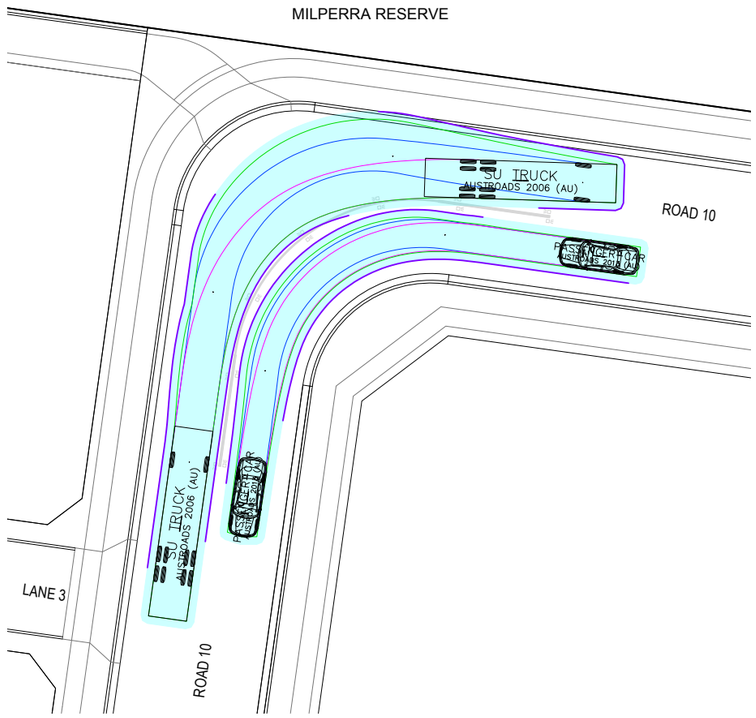

CAR OUTSIDE / SU TRUCK INSIDE



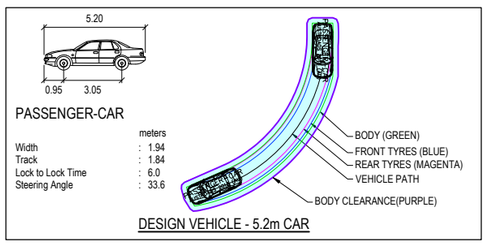

SU TRUCK - LEFT IN / LEFT OUT



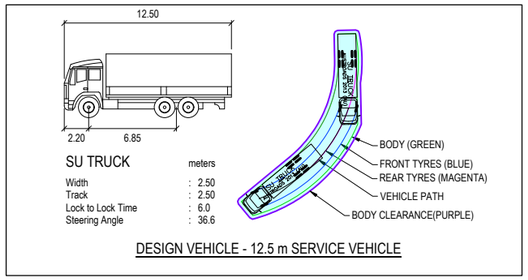

SU TRUCK - RIGHT IN / RIGHT OUT




CAR INSIDE / SU TRUCK OUTSIDE




DESIGN VEHICLE - 5.2m CAR




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

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| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 29.10.25 |
| DA Number | - |

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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS SHEET 11 OF 18 |

Sheet 126 of145

Scale 1:200 @ A1

N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 710 | B |

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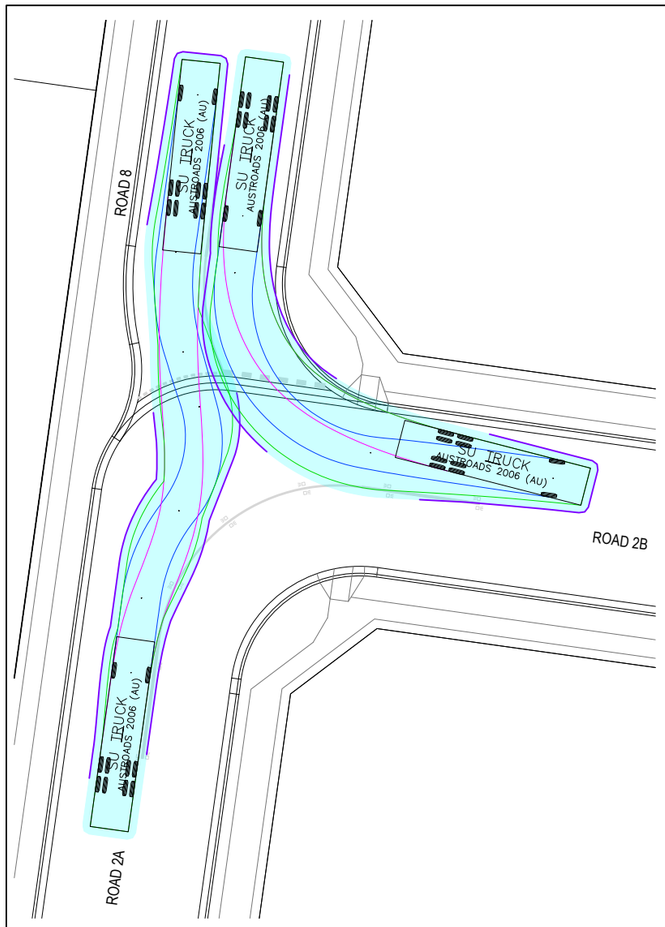
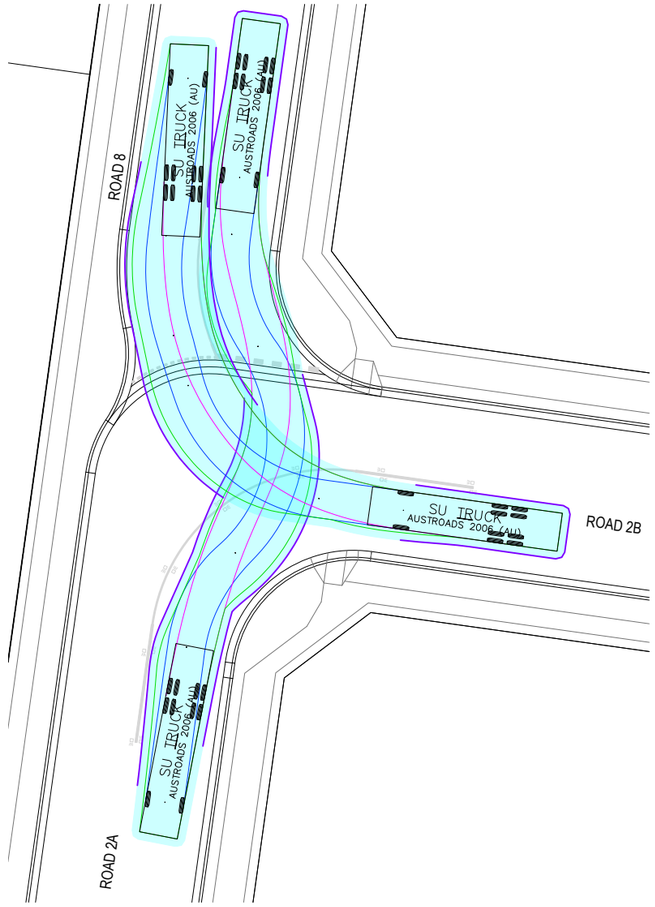
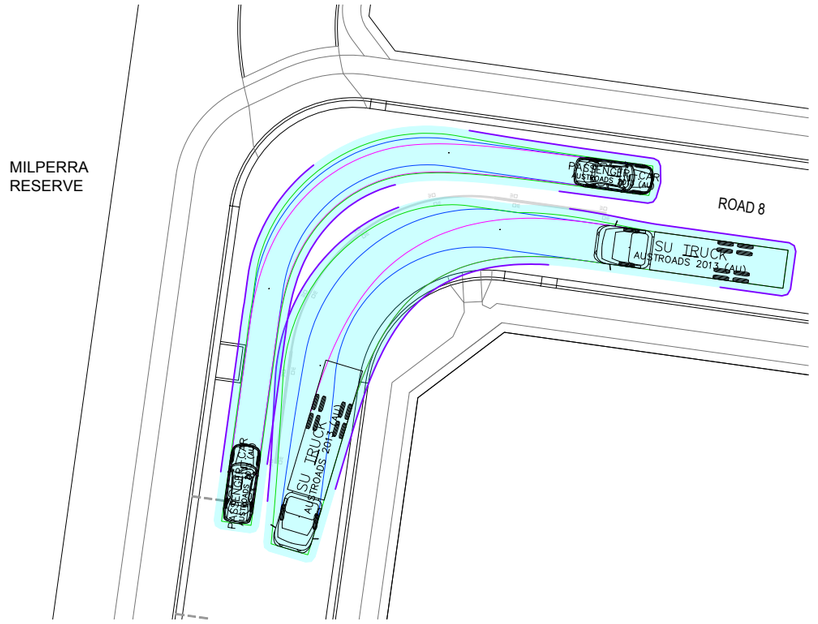


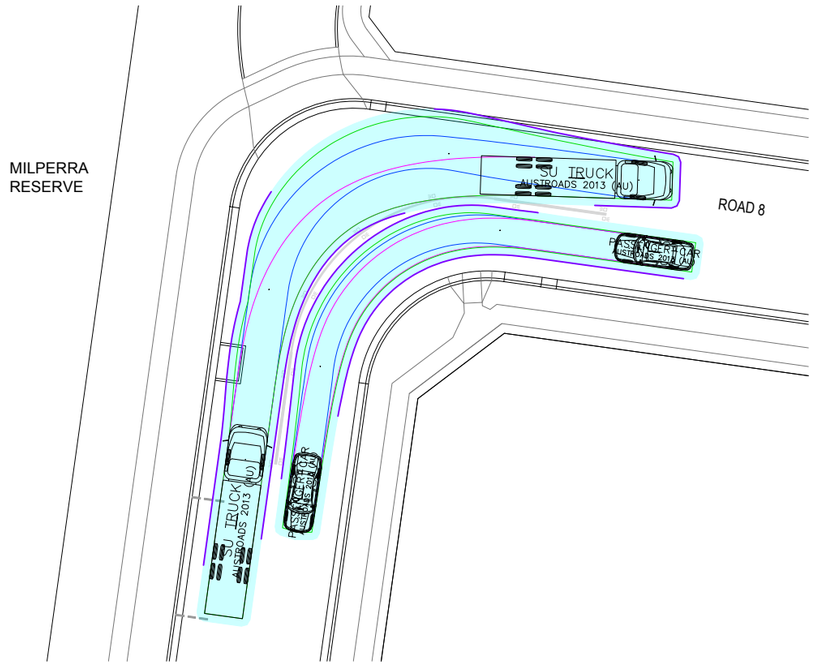

SU TRUCK - LEFT IN / LEFT OUT



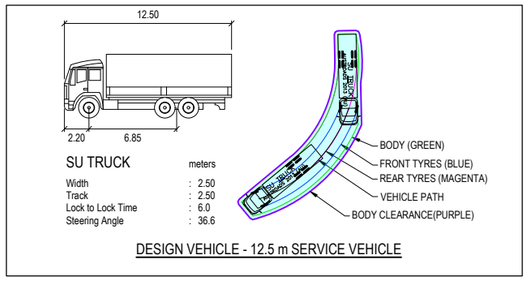

SU TRUCK - RIGHT IN / RIGHT OUT




CAR OUTSIDE / SU TRUCK INSIDE




CAR INSIDE / SU TRUCK OUTSIDE




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

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| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 29.10.25 |
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Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS SHEET 12 OF 18

Sheet 127 of145

Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 711 | B |

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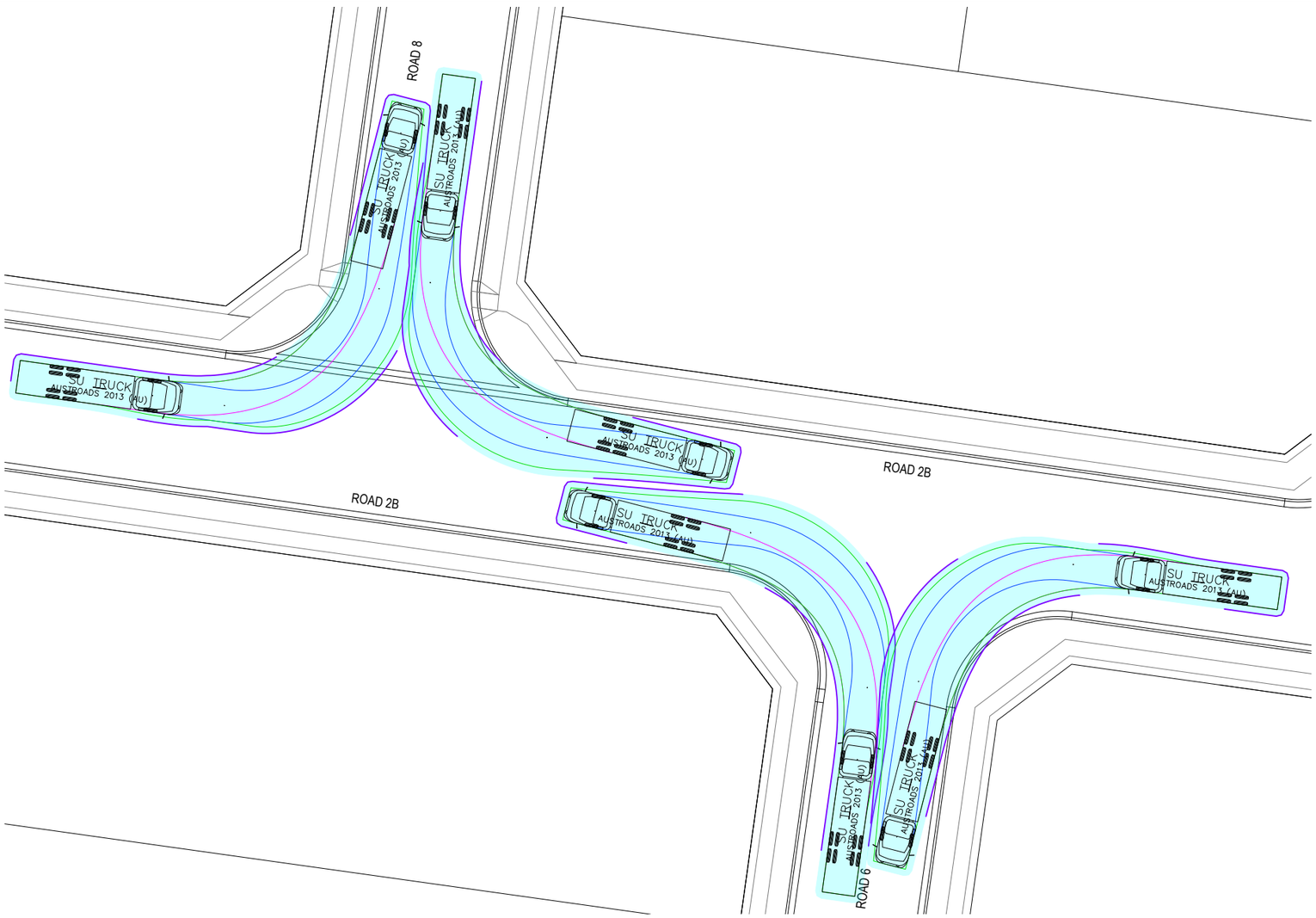
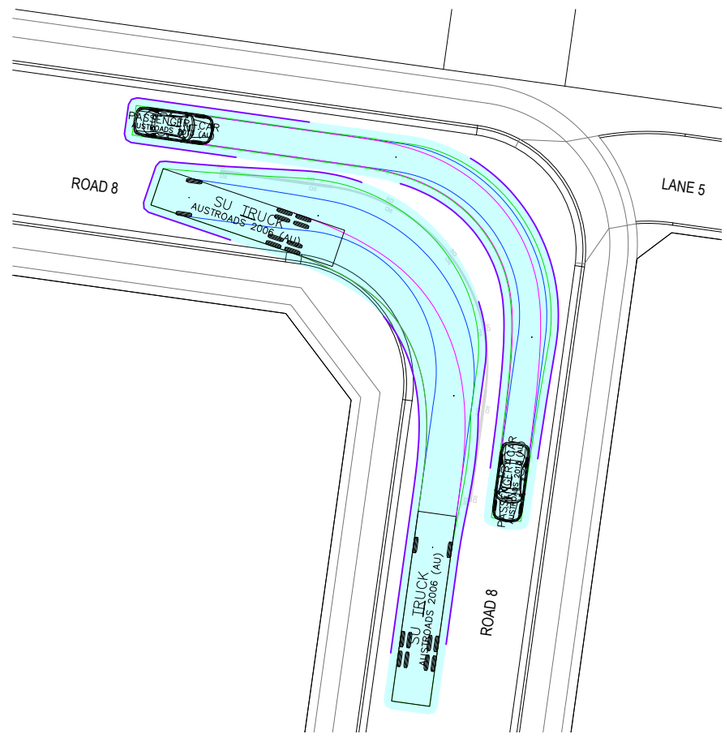
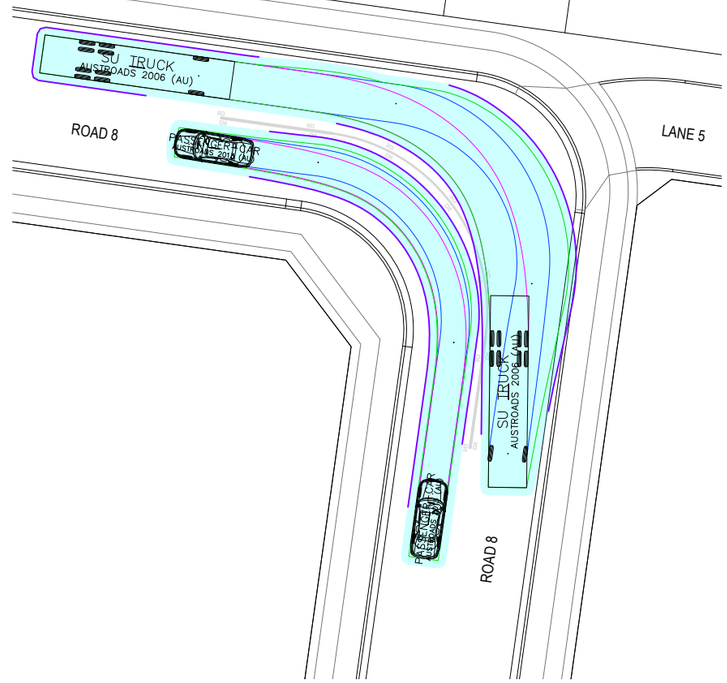


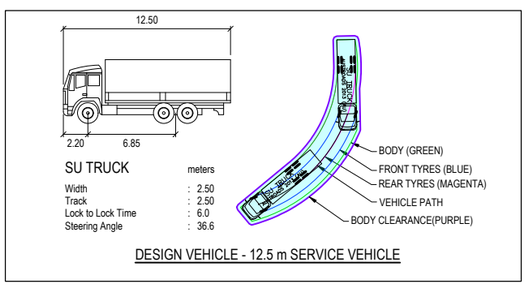

SU TRUCK - LEFT IN / LEFT OUT




CAR OUTSIDE / SU TRUCK INSIDE



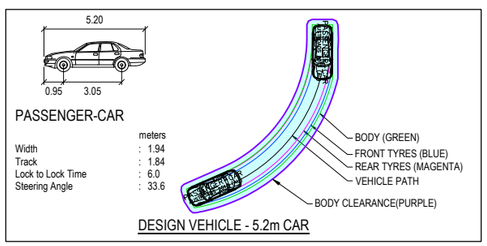

CAR INSIDE / SU TRUCK OUTSIDE




SU TRUCK

| | meters |
|---|---|
| Width | : 2.50 |
| Track | : 2.50 |
| Lock to Lock Time | : 6.0 |
| Steering Angle | : 36.6 |

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




PASSENGER-CAR

| | meters |
|---|---|
| Width | : 1.94 |
| Track | : 1.84 |
| Lock to Lock Time | : 6.0 |
| Steering Angle | : 33.6 |

DESIGN VEHICLE - 5.2m CAR

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| Drawing Title | TURNING MOVEMENTS<br>SHEET 13 OF 18 |

Sheet 128 of145
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 712 | B |

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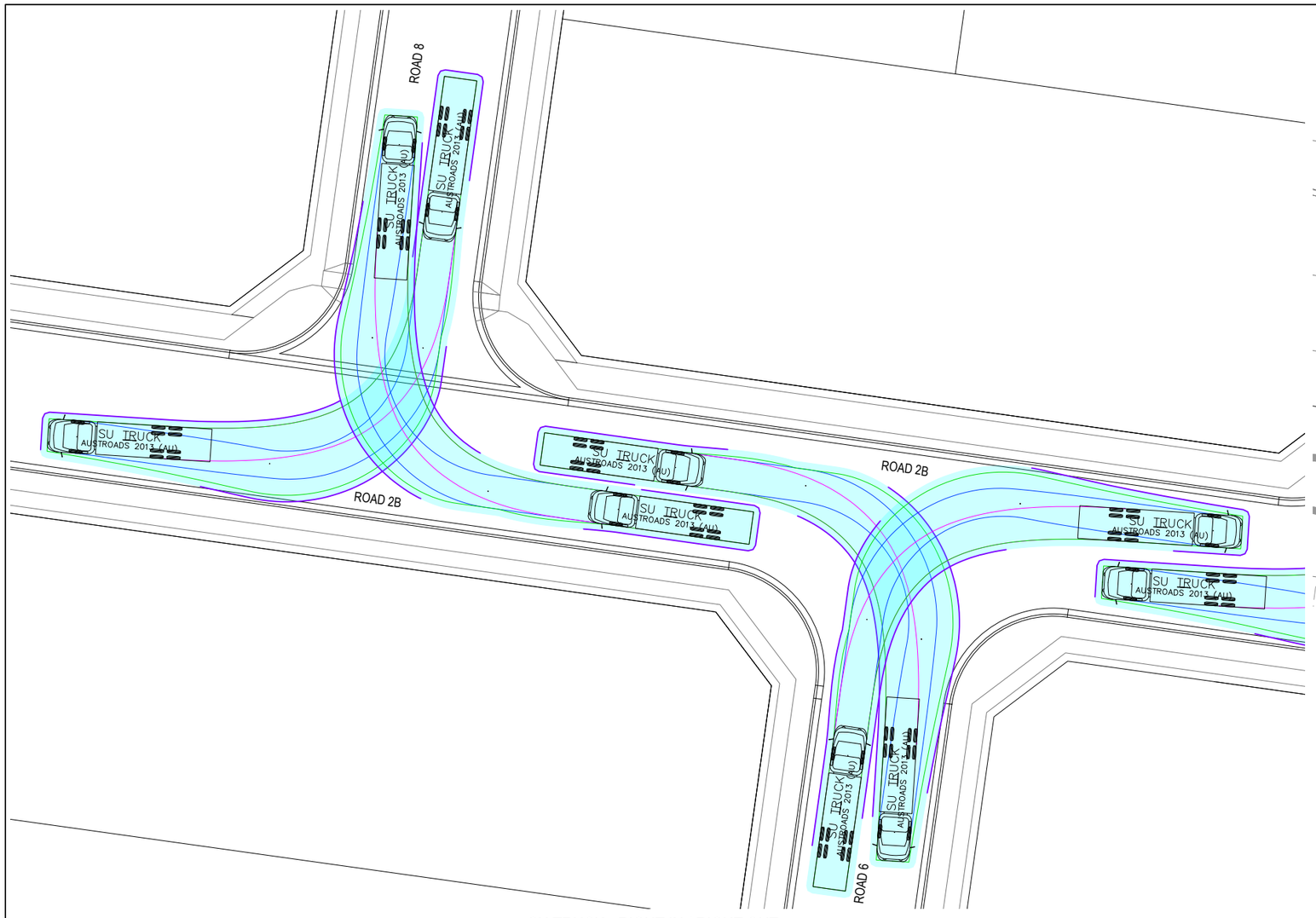
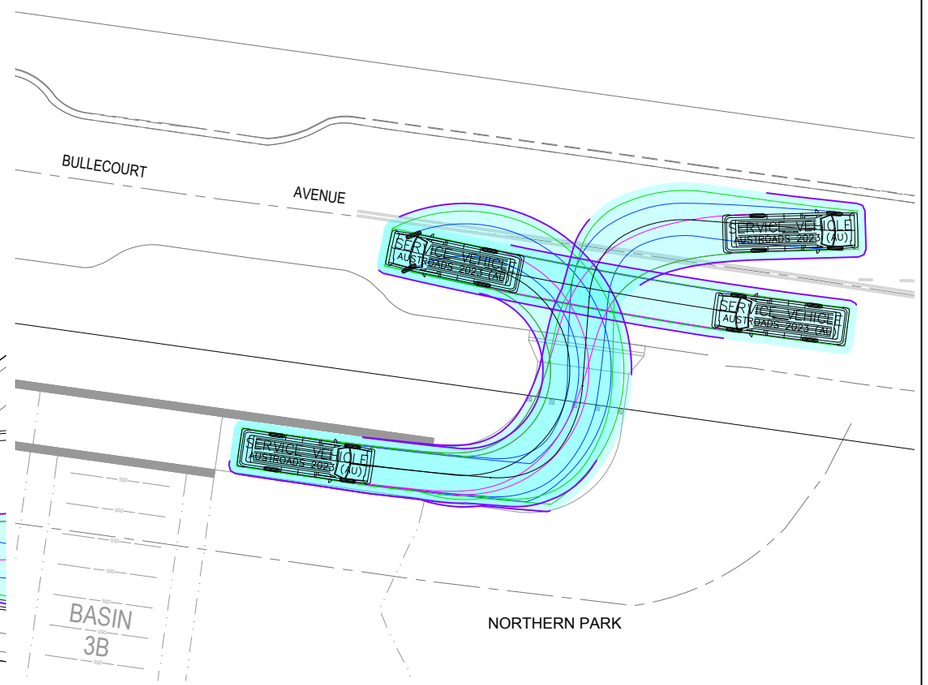
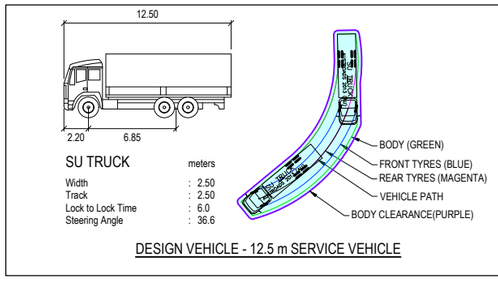



SU TRUCK - RIGHT IN / RIGHT OUT



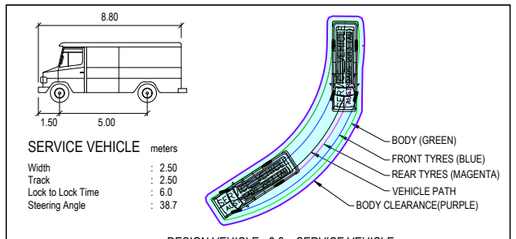

SERVICE VEHICLE INTO NORTHERN BASIN




SU TRUCK meters

| | | |
|---|---|---|
| Width | : | 2.50 |
| Track | : | 2.50 |
| Lock to Lock Time | : | 6.0 |
| Steering Angle | : | 36.6 |

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




SERVICE VEHICLE meters

| | | |
|---|---|---|
| Width | : | 2.50 |
| Track | : | 2.50 |
| Lock to Lock Time | : | 6.0 |
| Steering Angle | : | 38.7 |

DESIGN VEHICLE - 8.8m SERVICE VEHICLE

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| Drawing Title | TURNING MOVEMENTS<br>SHEET 14 OF 18 |

Sheet 129 of145
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 713 | B |

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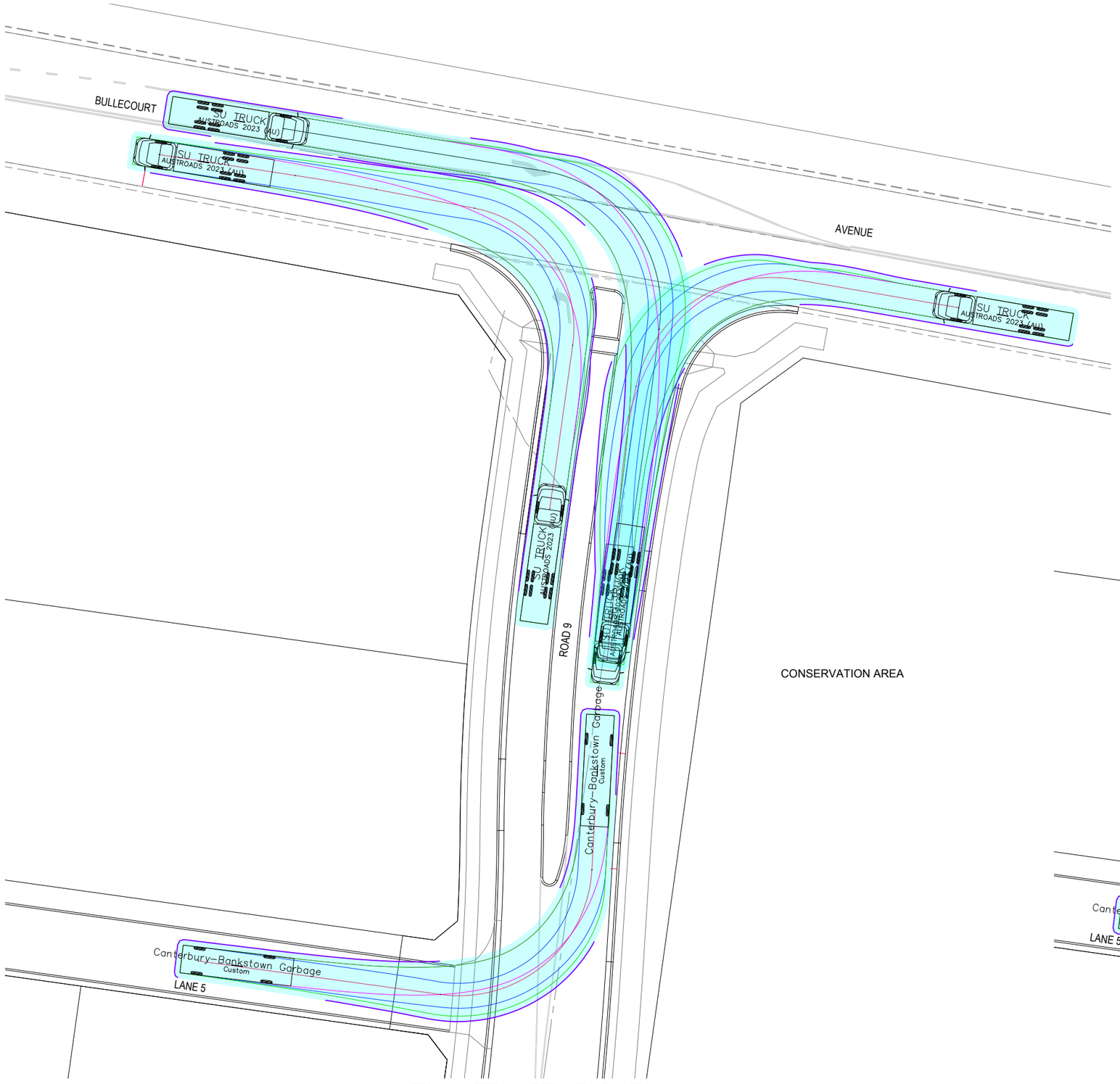
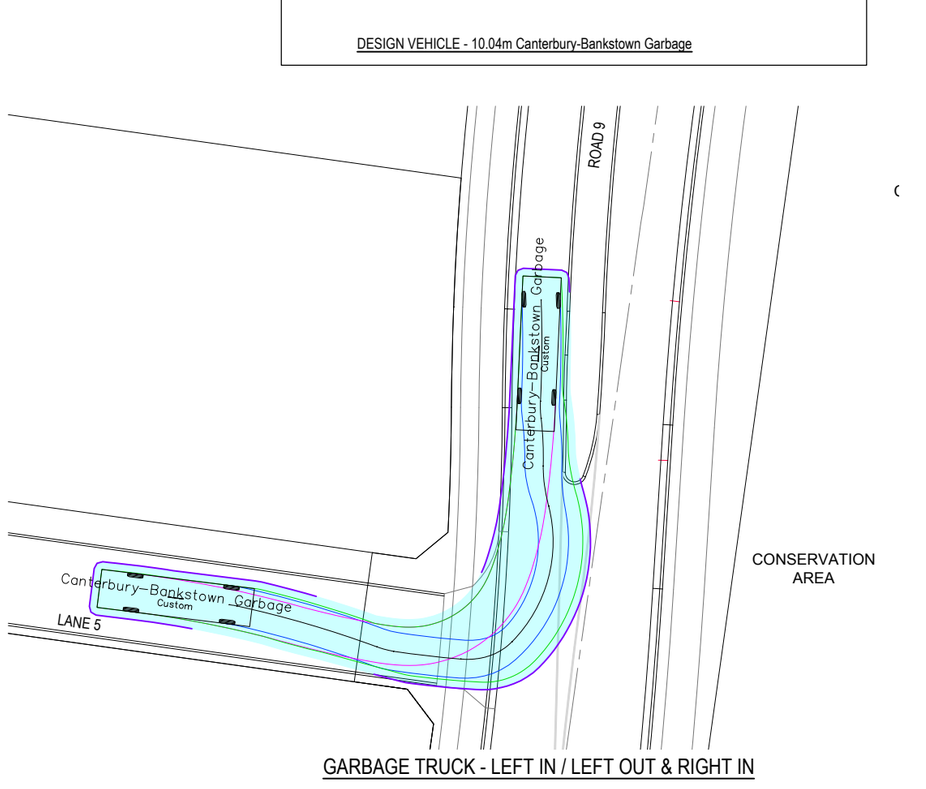
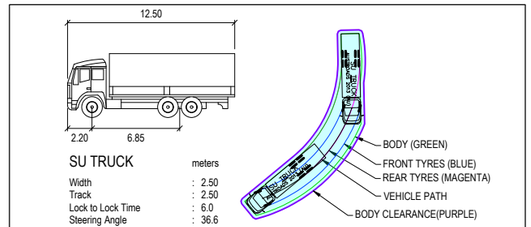



SU TRUCK - LEFT IN / LEFT OUT & RIGHT IN

CONSERVATION AREA



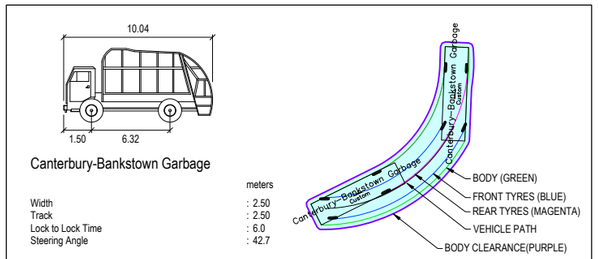

GARBAGE TRUCK - LEFT IN / LEFT OUT & RIGHT IN




SU TRUCK

| | meters |
|---|---|
| Width | : 2.50 |
| Track | : 2.50 |
| Lock to Lock Time | : 6.0 |
| Steering Angle | : 36.6 |

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




Canterbury-Bankstown Garbage

| | meters |
|---|---|
| Width | : 2.50 |
| Track | : 2.50 |
| Lock to Lock Time | : 6.0 |
| Steering Angle | : 42.7 |

DESIGN VEHICLE - 10.04m Canterbury-Bankstown Garbage

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2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 15 OF 18

Sheet 130 of145

Scale: 1:200 @ A1

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| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 714 | B |

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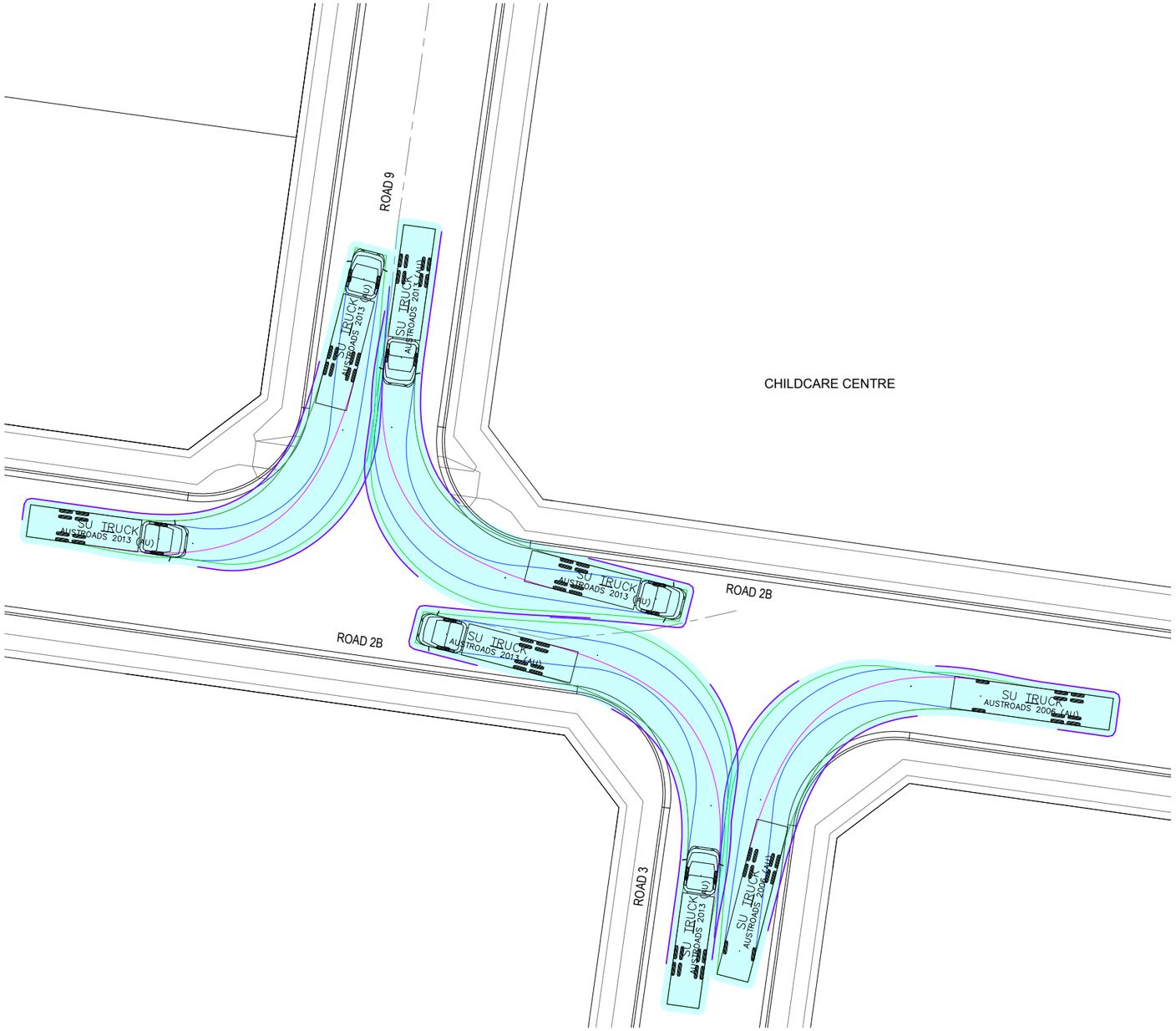
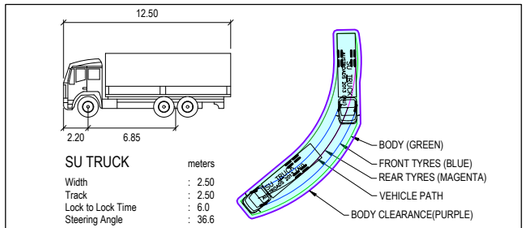



SU TRUCK - LEFT IN / LEFT OUT




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

SU TRUCK - LEFT IN / LEFT OUT & RIGHT IN

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SCALE 1:200 AT A1 SIZE

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|---|---|
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2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 16 OF 18

Sheet 131 of145

Scale: 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 715 | B |

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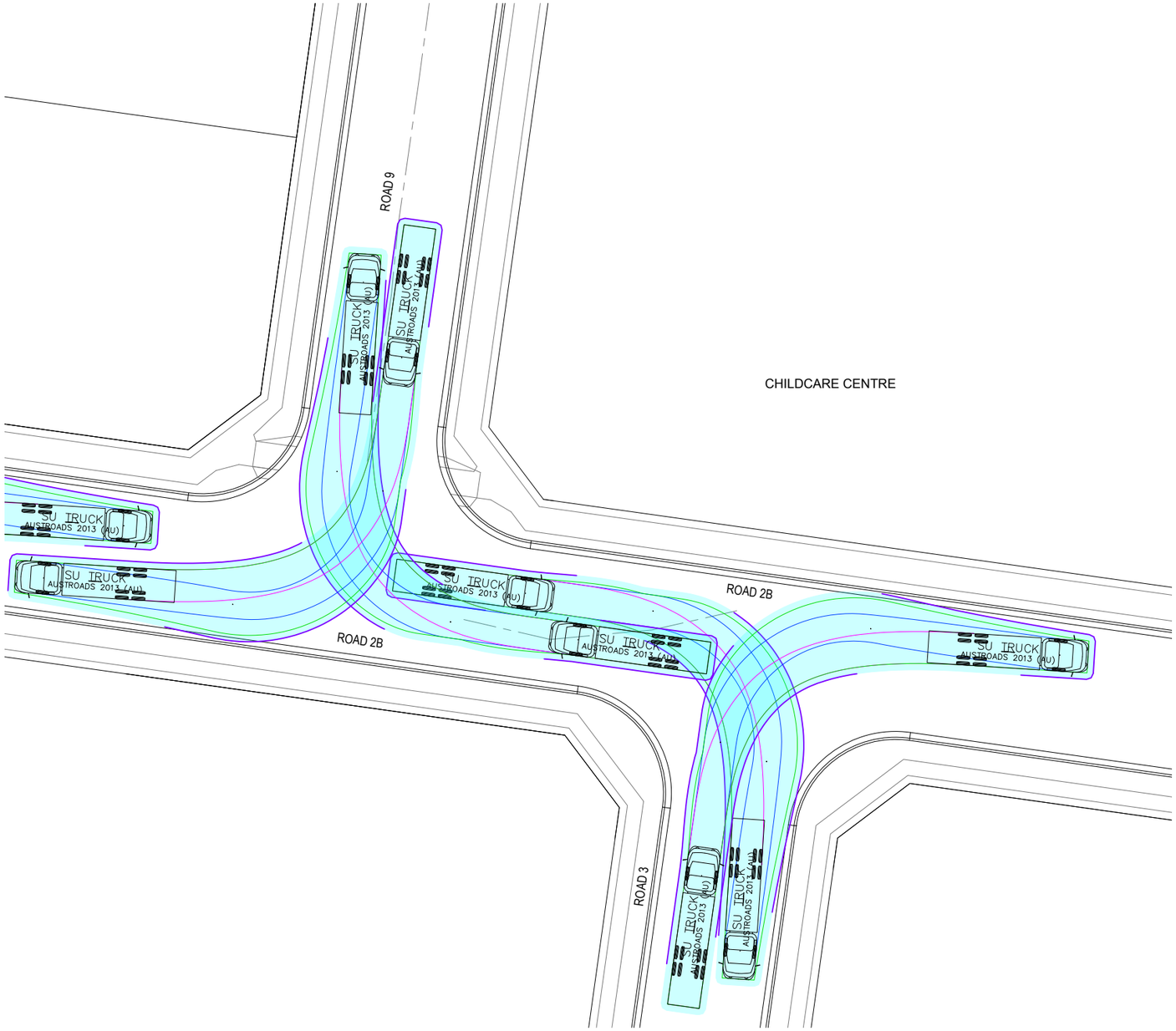
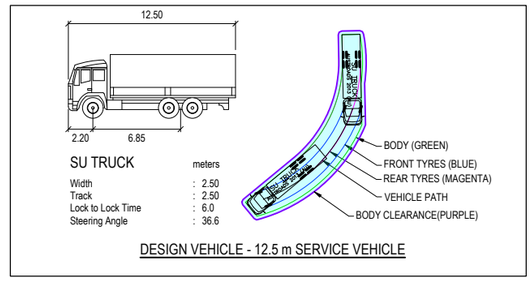



SU TRUCK - RIGHT IN / RIGHT OUT




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

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| REV | DESCRIPTION | DATE | DRN. | APP. |
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|---|---|
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Sheet 132 of145
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 716 | B |

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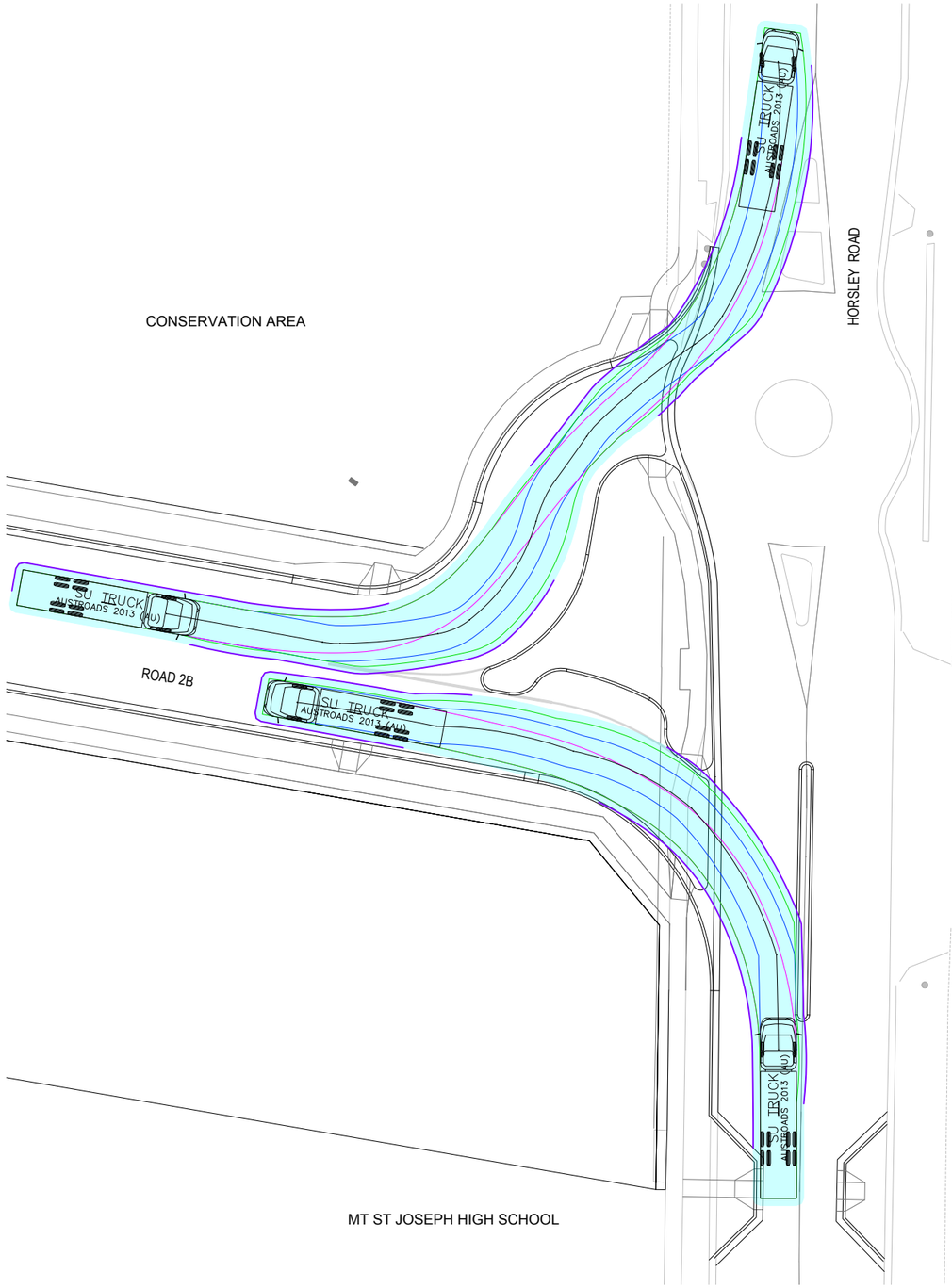
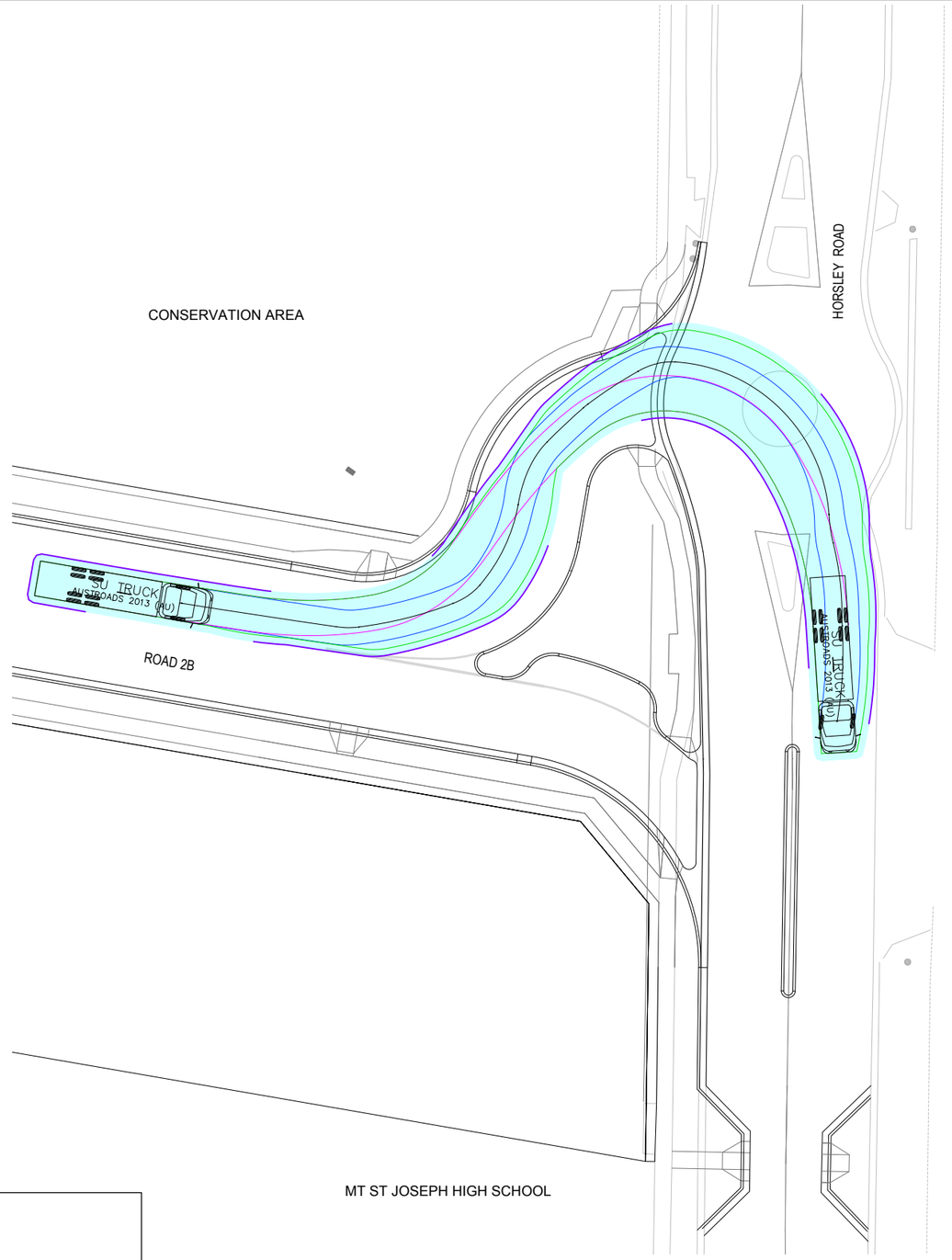
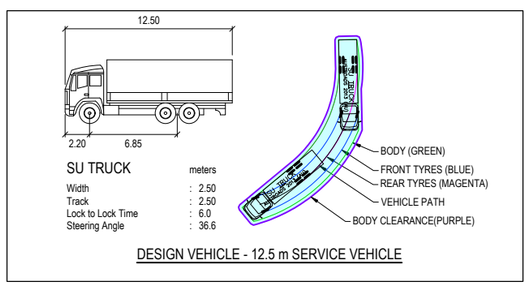



TRUCK - ENTRY AND EXIT - ROAD 2 & HORSLEY ROAD




TRUCK - EXIT - ROAD 2 & HORSLEY ROAD




| SU TRUCK | meters |
|---|---|
| Width | : 2.50 |
| Track | : 2.50 |
| Lock to Lock Time | : 6.0 |
| Steering Angle | : 36.6 |

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

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| Drawing Title | TURNING MOVEMENTS<br>SHEET 18 OF 18 |

Sheet 133 of145

Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 717 | B |

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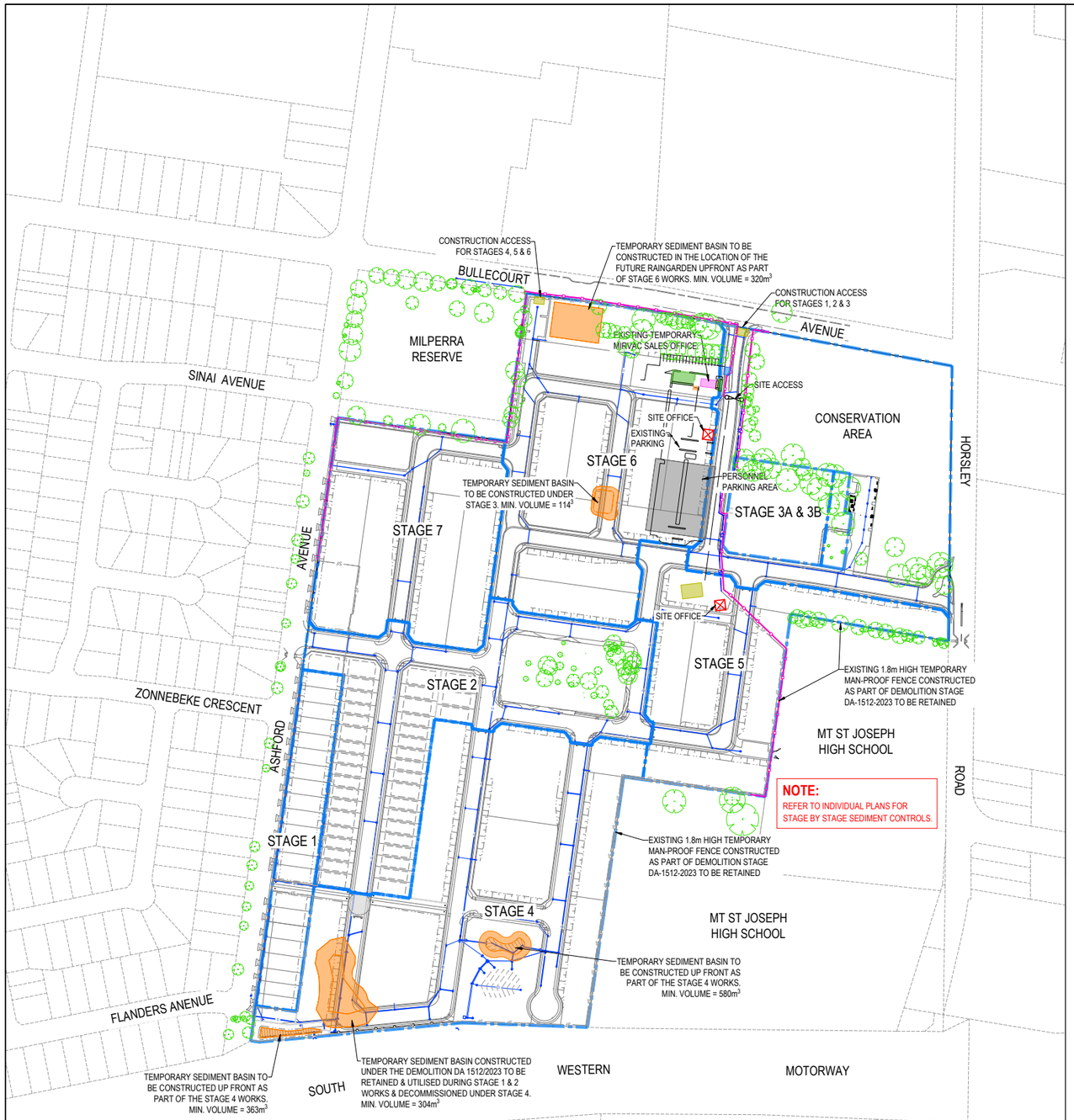


## 1. Erosion Hazard and Sediment Basins

**Site Name:** WSU Milperra

**Site Location:** 2 Bullecourt Ave, Milperra

**Precinct/Stage:** All Stages

**Other Details:** Stage 1 & 2 (Temp), 3 (Temp ), 4B & 5 (Temp in Permanent), 4A & 7 (Temp in Permanent), 6 & 3 (Temp in Permanent)

| Site area | Sub-catchment or Name of Structure | | | | | | Notes |
|---|---|---|---|---|---|---|---|
| | 1 & 2 | 3 | 4B & 5 | 4A & 7 | 6 & 3 | | |
| Total catchment area (ha) | 3.838 | 1.562 | 7.712 | 5.033 | 4.337 | | |
| Disturbed catchment area (ha) | 3.838 | 0.876 | 5.575 | 2.584 | 2.775 | | |
| **Soil analysis (enter sediment type if known, or laboratory particle size data)** | | | | | | | |
| Sediment Type (C , F or D) if known: | F | F | F | F | F | | From Appendix C (if known) |
| % sand (fraction 0.02 to 2.00 mm) | 33 | 33 | 33 | 33 | 33 | | Enter the percentage of each soil fraction. E.g. enter 10 for 10% |
| % silt (fraction 0.002 to 0.02 mm) | 33 | 33 | 33 | 33 | 33 | | |
| % clay (fraction finer than 0.002 mm) | 33 | 33 | 33 | 33 | 33 | | |
| Dispersion percentage | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | | E.g. enter 10 for dispersion of 10% |
| % of whole soil dispersible | 4.95 | 4.95 | 4.95 | 4.95 | 4.95 | | See Section 6.3.3(e). Auto-calculated |
| Soil Texture Group | F | F | F | F | F | | Automatic calculation from above |
| **Rainfall data** | | | | | | | |
| Design rainfall depth (no of days) | 5 | 5 | 5 | 5 | 5 | | See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25. |
| Design rainfall depth (percentile) | 75 | 75 | 75 | 75 | 75 | | |
| x-day, y-percentile rainfall event (mm) | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | | |
| Rainfall R-factor (if known) | 2600 | 2600 | 2600 | 2600 | 2600 | | Only need to enter one or the other here |
| IFD: 2-year, 6-hour storm (if known) | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | | |
| **RUSLE Factors** | | | | | | | |
| Rainfall erosivity (*R*-factor) | 2600 | 2600 | 2600 | 2600 | 2600 | | Auto-filled from above |
| Soil erodibility (*K*-factor) | 0.038 | 0.038 | 0.038 | 0.038 | 0.038 | | RUSLE LS factor calculated for a high rill/interrill ratio. |
| Slope length (m) | 300 | 150 | 220 | 130 | 180 | | |
| Slope gradient (%) | 2 | 2 | 2 | 2 | 2 | | |
| Length/gradient (*LS*-factor) | 0.68 | 0.52 | 0.61 | 0.49 | 0.56 | | |
| Erosion control practice (*P*-factor) | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | |
| Ground cover (*C*-factor) | 1 | 1 | 1 | 1 | 1 | 1 | |
| **Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins)** | | | | | | | |
| Storage (soil) zone design (no of months) | 2 | 2 | 2 | 2 | 2 | 2 | Minimum is generally 2 months |
| Cv (Volumetric runoff coefficient) | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | See Table F2, page F-4 in Appendix F |
| **Calculations and Type D/F Sediment Basin Volumes** | | | | | | | |
| Soil loss (t/ha/yr) | 88 | 67 | 78 | 63 | 72 | | |
| Soil Loss Class | 1 | 1 | 1 | 1 | 1 | | See Table 4.2, page 4-13 |
| Soil loss ($m^3$/ha/yr) | 68 | 51 | 60 | 49 | 55 | | Conversion to cubic metres |
| Sediment basin storage (soil) volume ($m^3$) | 43 | 8 | 56 | 21 | 26 | | See Sections 6.3.4(i) for calculations |
| Sediment basin settling (water) volume ($m^3$) | 261 | 106 | 524 | 342 | 294 | | See Sections 6.3.4(i) for calculations |
| Sediment basin total volume ($m^3$) | 304 | 114 | 580 | 363 | 320 | | |

### CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

### SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS 50 *milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum*. OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

### LEGEND

- EXISTING SURFACE CONTOURS (45.5)
- PROPOSED DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 1 LIMITS
- SFS — SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SEDIMENT FENCING
- STRAW BALE
- TEMPORARY MOUND TO DIVERT DIRTY WATER TO TEMPORARY SEDIMENT BASIN
- TEMPORARY SEDIMENT BASIN
- SITE OFFICE
- PERSONNEL PARKING AREA

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

LEGEND:

_ _ _ _ _ _ INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL SOIL & WATER MANAGEMENT PLAN

Sheet 134 of 145

Scale 1:2000 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 800 | B |

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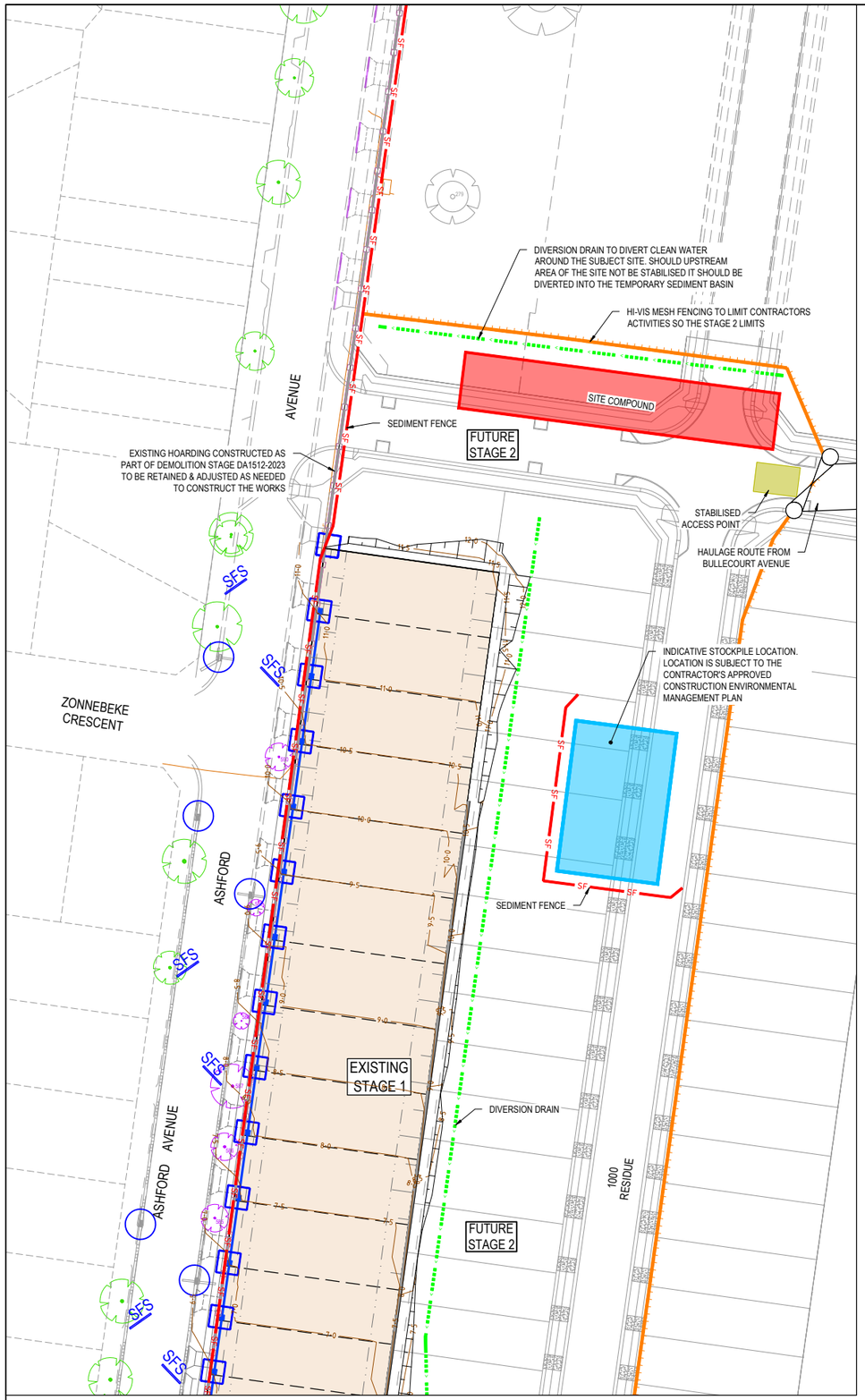


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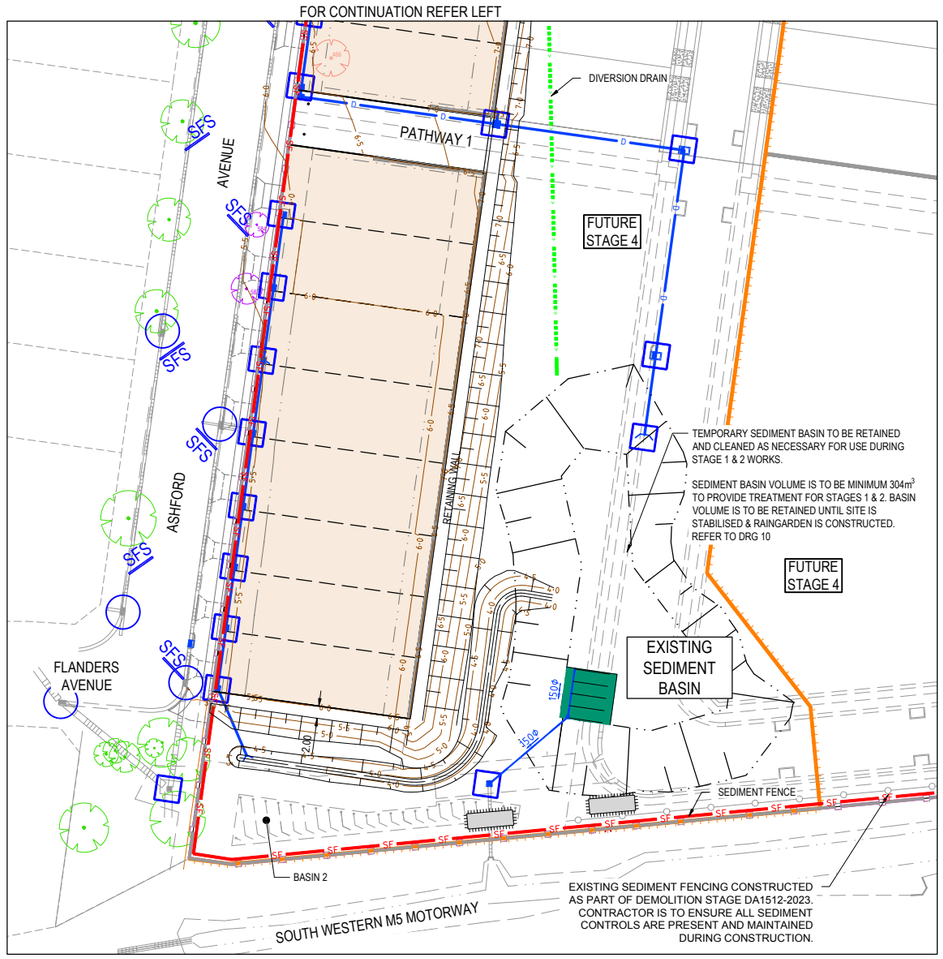


## LEGEND

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- STRAW BALE
- DIVERSION DRAIN
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

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| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN STAGE 1

Sheet 135 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 801 | B |

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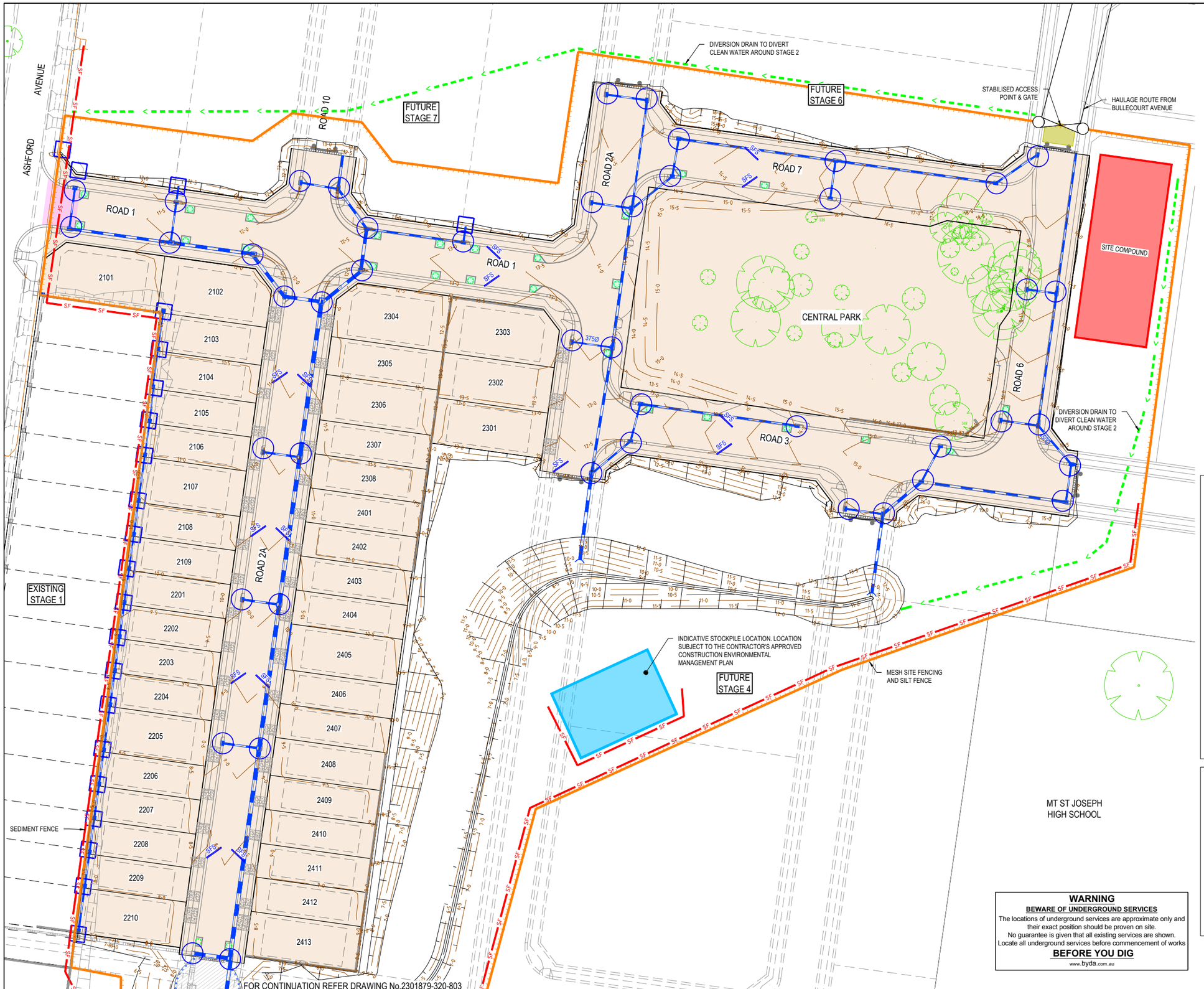


## LEGEND

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- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

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## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
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## SEDIMENT BASIN

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2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | SOIL & WATER MANAGEMENT PLAN<br>STAGE 2<br>SHEET 1 OF 2 |

Sheet 136 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
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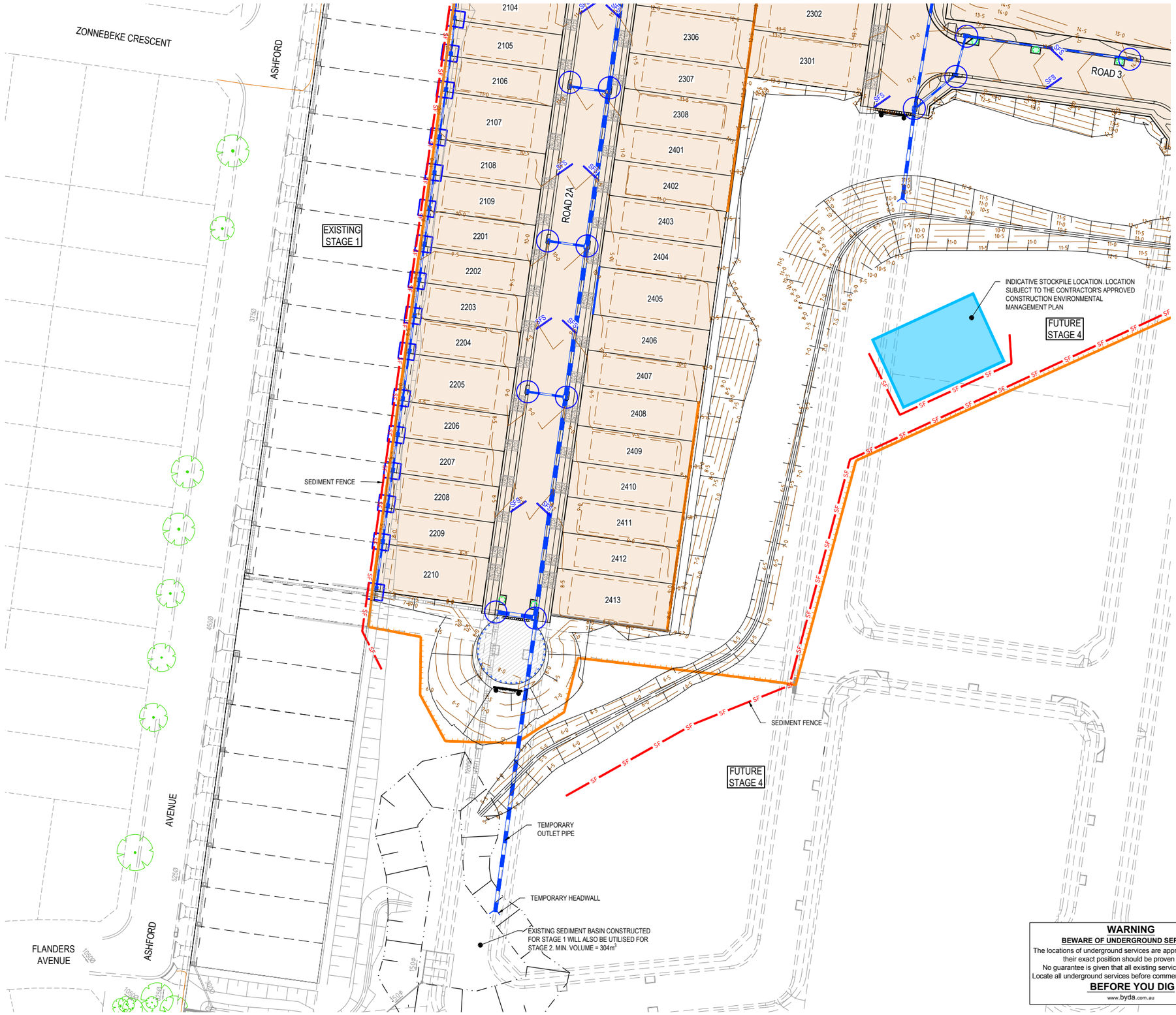


## LEGEND

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4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS 50 *milligrams per litre.* SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum.* OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
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SCALE 1:500 AT A1 SIZE

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|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 29.10.25 |
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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | SOIL & WATER MANAGEMENT PLAN<br>STAGE 2<br>SHEET 2 OF 2 |

Sheet 137 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 803 | B |

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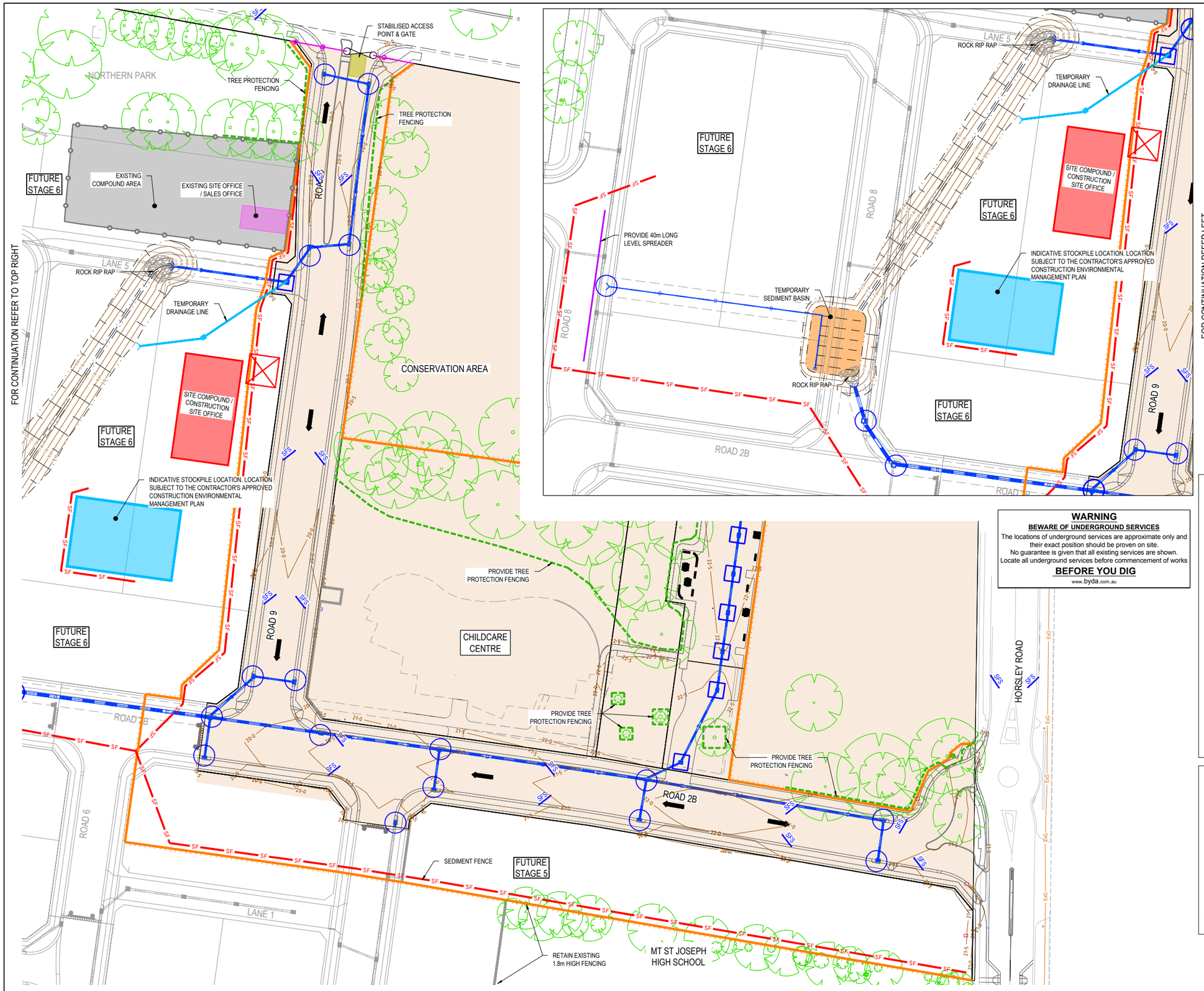


## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- TEMPORARY DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 2 LIMITS
- SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SEDIMENT FENCING
- STRAW BALE
- DIVERSION DRAIN
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

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2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
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| Designed Date | R. GOVENDER 23.06.2025 |
| Drawn | D.RAFTER |
| Checked Date | S. FERGUSON 29.10.25 |
| Approved Reg. No. Date | S. FERGUSON PE0008347 29.10.25 |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN
STAGE 3

Sheet 138 of 145

Scale 1:500 @ A1

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| Project Ref | Stage No | Drawing No | Rev |
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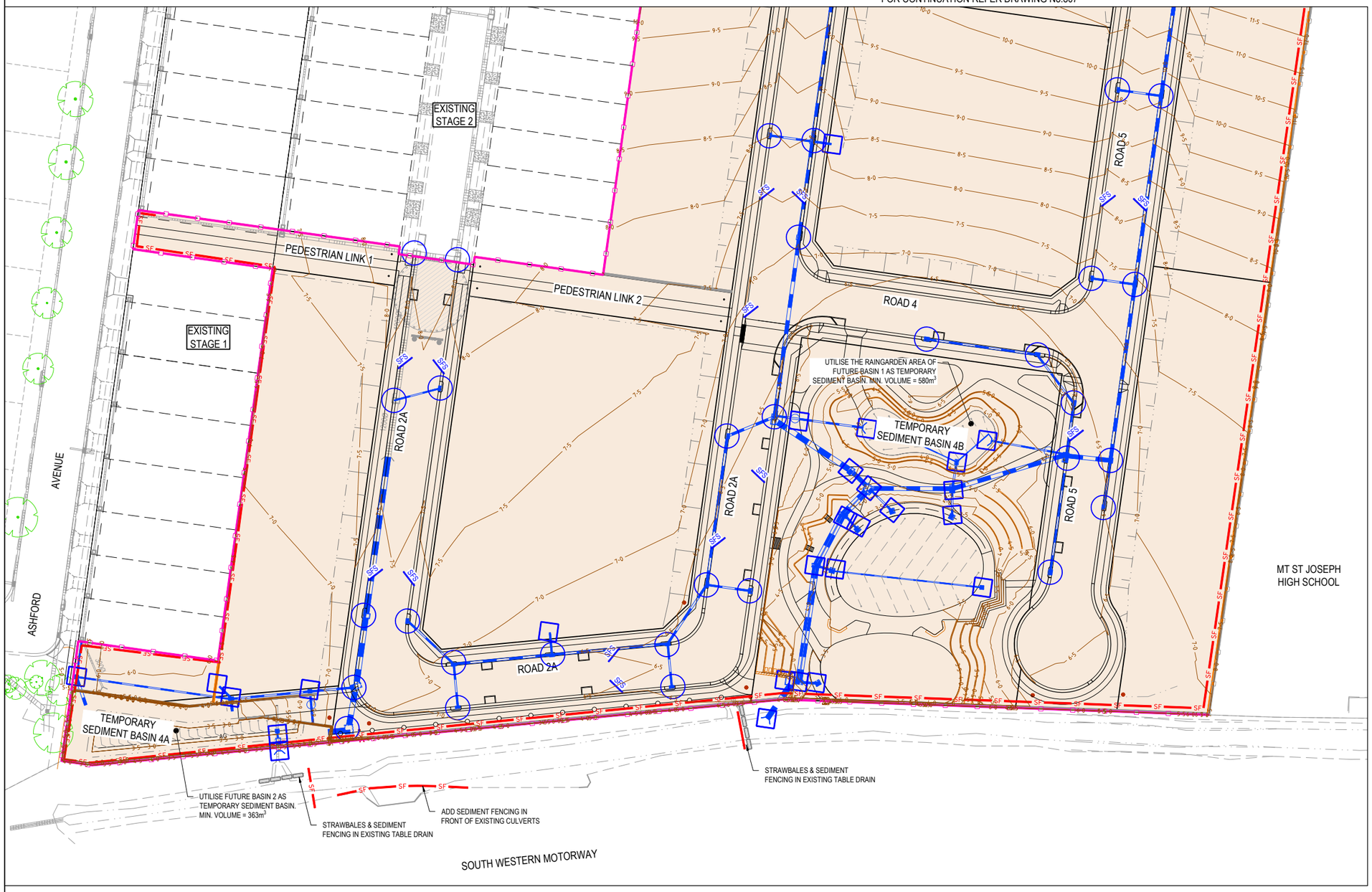
FOR CONTINUATION REFER DRAWING No.807

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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN
STAGE 4
SHEET 1 OF 2

Sheet 139 of 145

Scale: 1:500 @ A1

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| Project Ref | Stage No | Drawing No | Rev |
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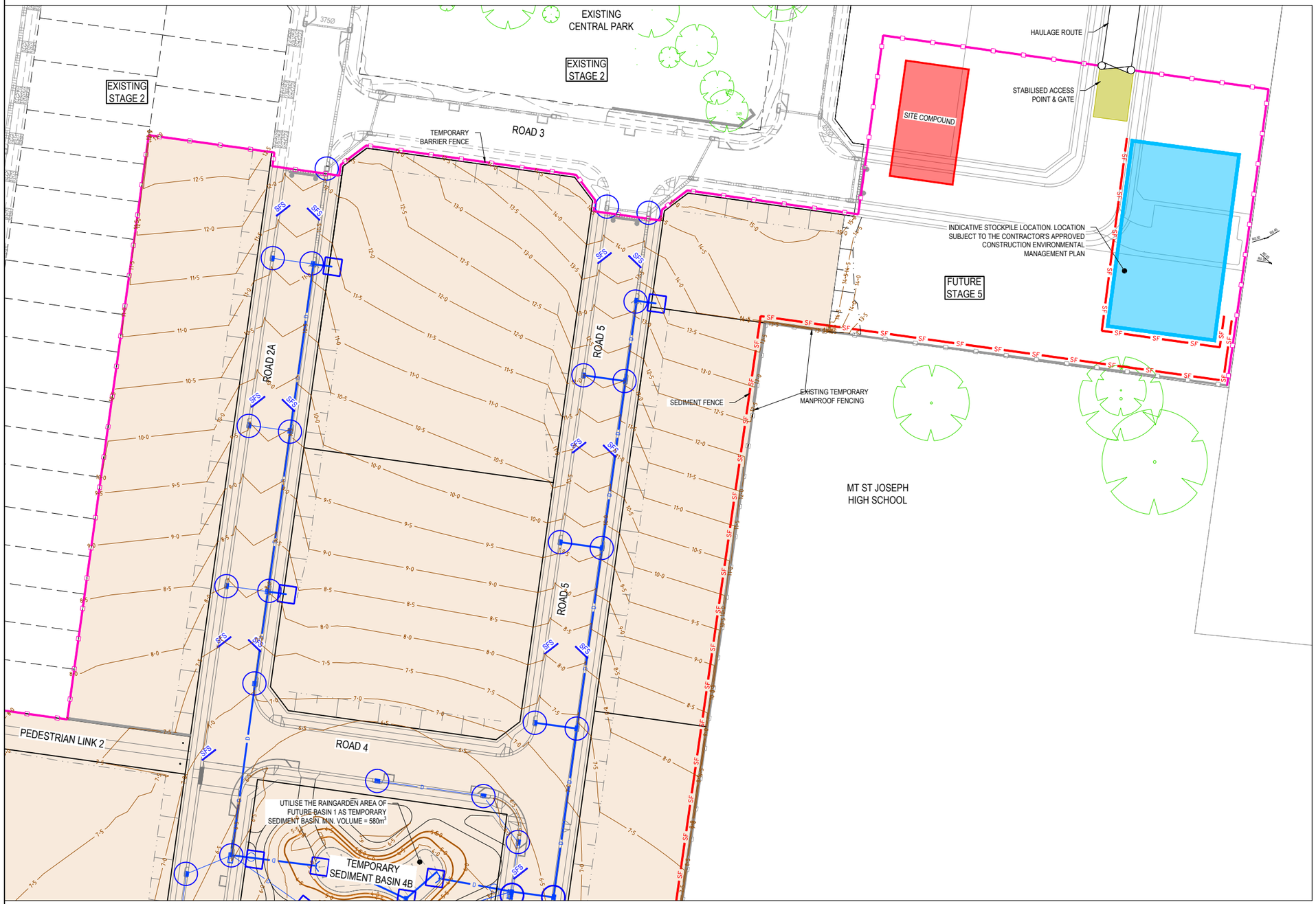


FOR CONTINUATION REFER DRAWING No.806

## LEGEND

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Drawing Title: SOIL & WATER MANAGEMENT PLAN
STAGE 4
SHEET 2 OF 2

Sheet 140 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
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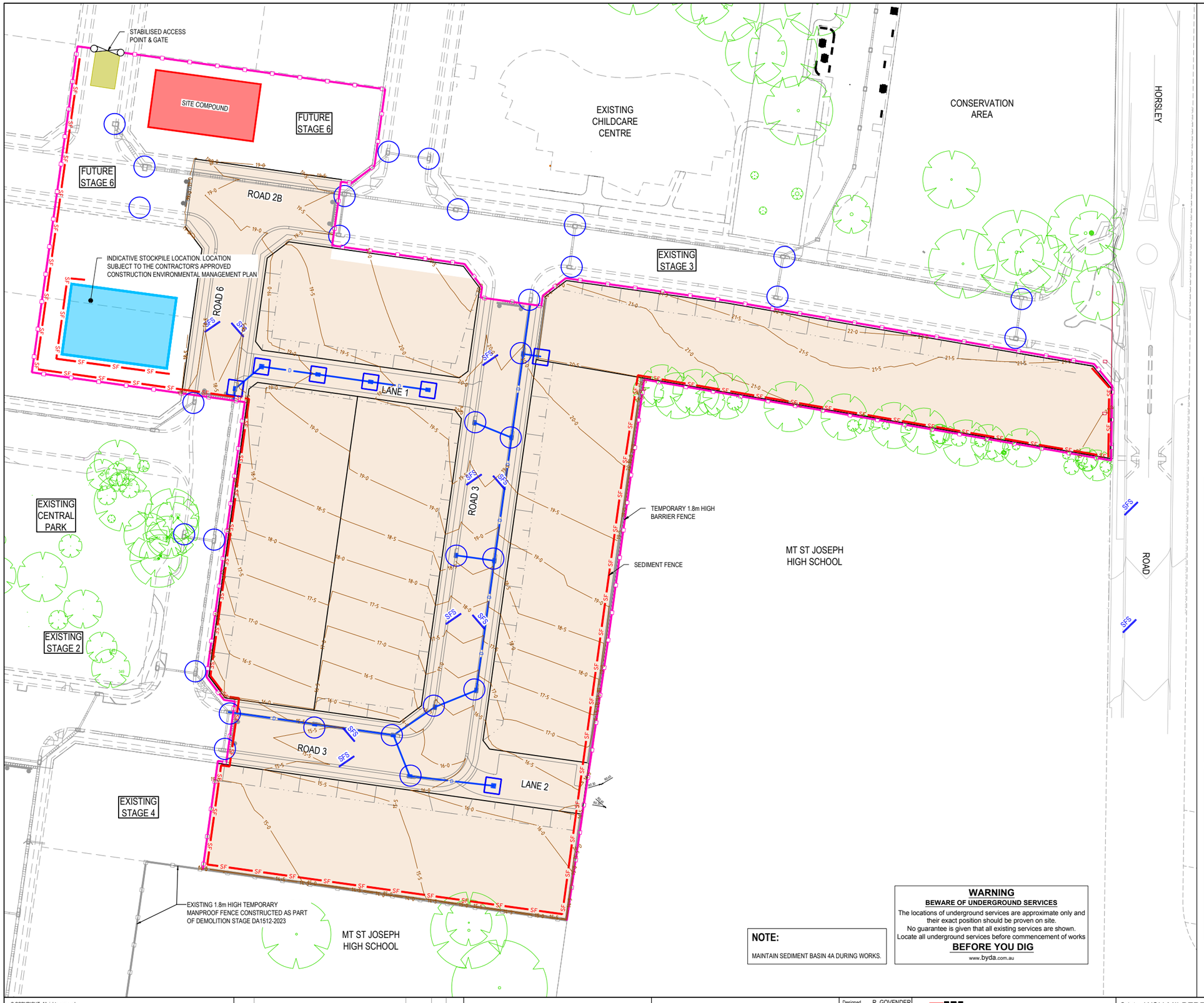


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NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

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## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
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2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS *50 milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum.* OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

**NOTE:**

MAINTAIN SEDIMENT BASIN 4A DURING WORKS.

**WARNING**

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| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
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|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | SOIL & WATER MANAGEMENT PLAN STAGE 5 |

Sheet 141 of 145

Scale 1:500 @ A1

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| Project Ref | Stage No | Drawing No | Rev |
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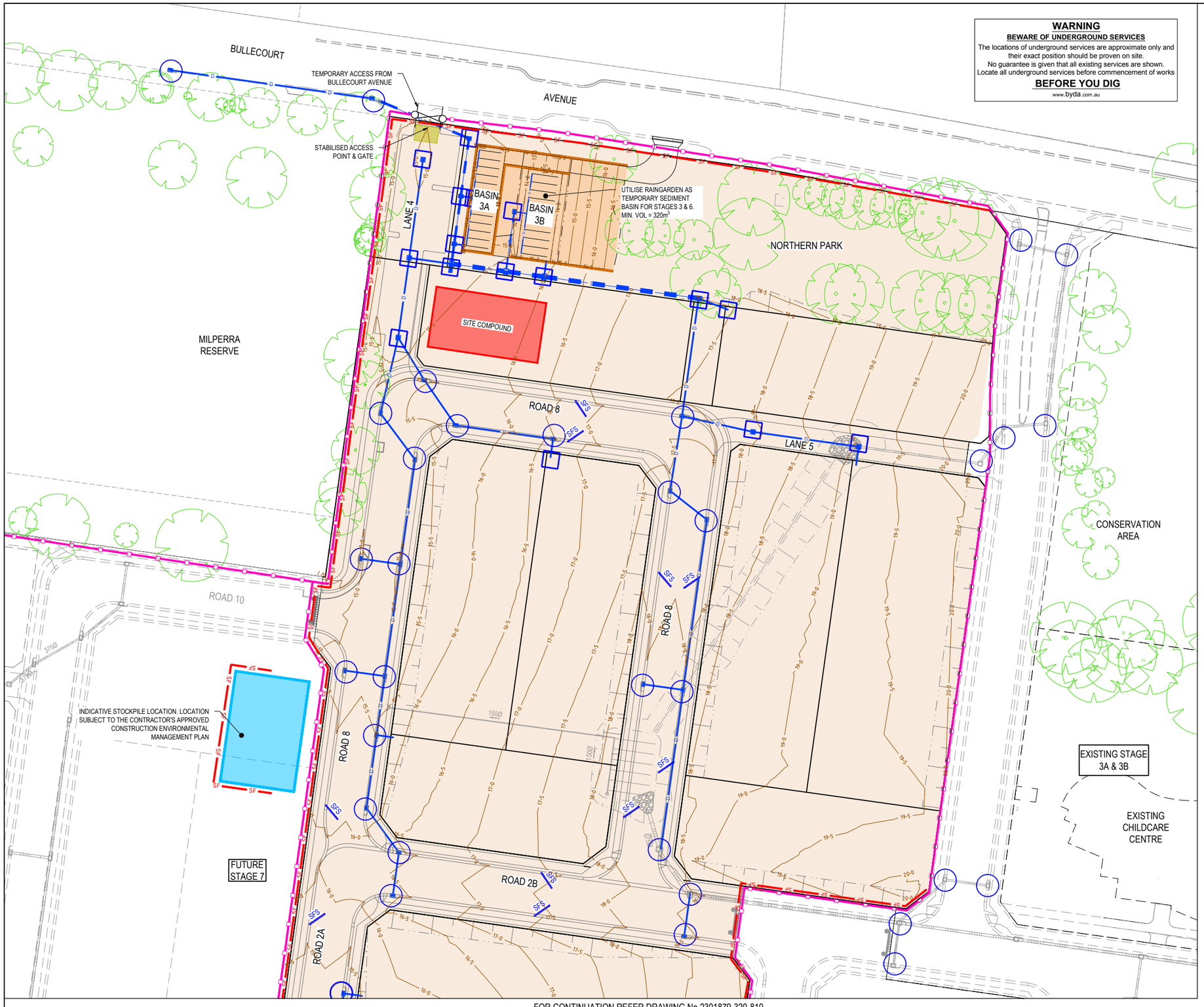


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- PROPOSED DRAINAGE PIPE AND PIT
- TEMPORARY DRAINAGE PIPE AND PIT
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- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 6 LIMITS
- LEVEL SPREADER
- SFS — SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SF — SEDIMENT FENCING
- STRAW BALE
- TREE PROTECTION FENCING
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4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS 50 *milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum*. OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
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FOR CONTINUATION REFER DRAWING No.2301879-320-810

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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | SOIL & WATER MANAGEMENT PLAN<br>STAGE 6<br>SHEET 1 OF 2 |

Sheet 142 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
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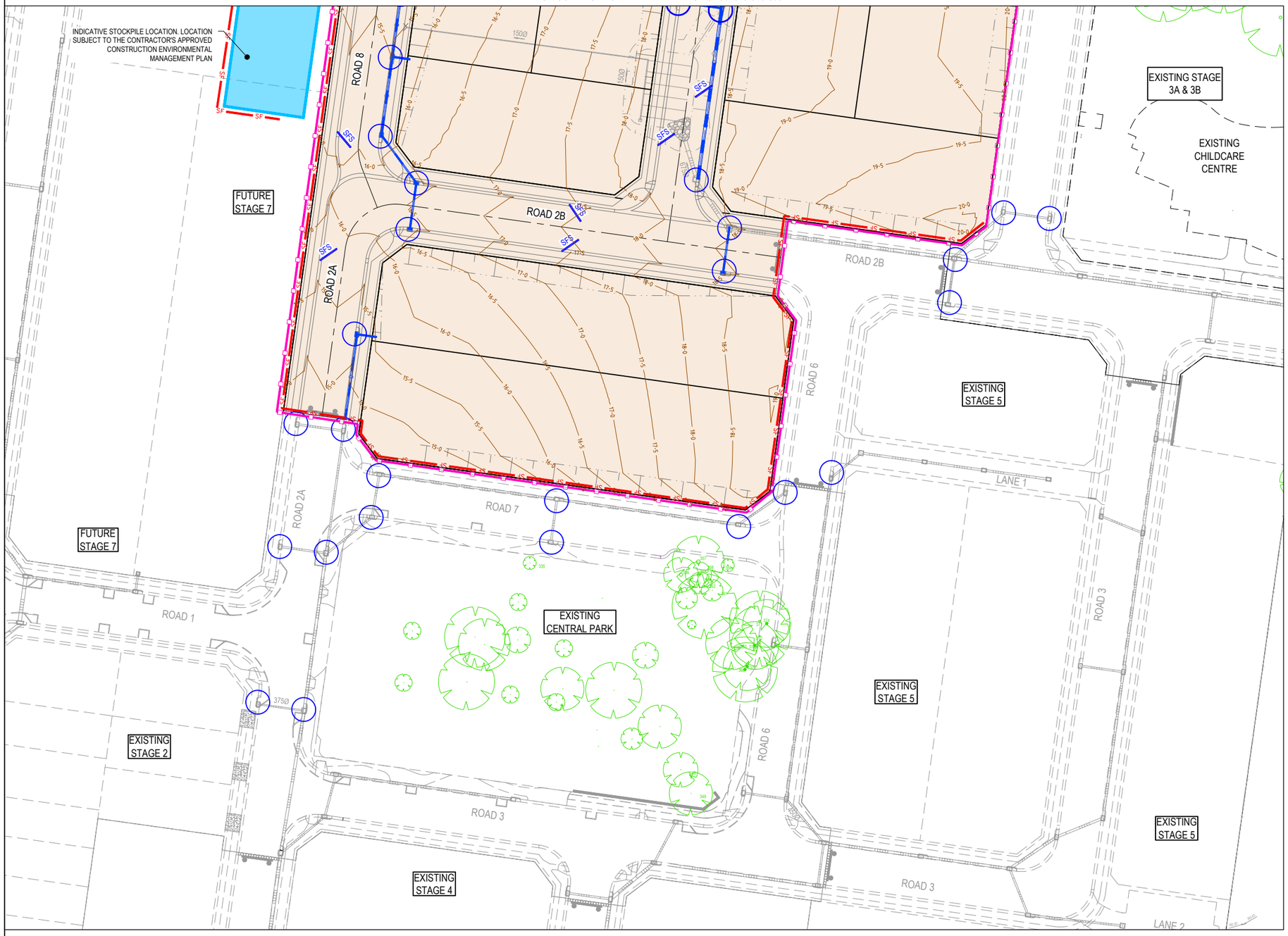


## LEGEND

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## SEDIMENT BASIN

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| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | SOIL & WATER MANAGEMENT PLAN STAGE 6 SHEET 2 OF 2 |

Sheet 143 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
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## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
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- GRAVEL KERB INLET SEDIMENT TRAP
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| Drawing Title | SOIL & WATER MANAGEMENT PLAN<br>STAGE 7 |

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Scale 1:500 @ A1

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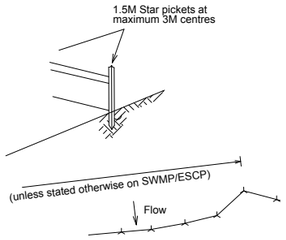
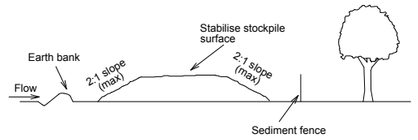



Star pickets at maximum 3M spacings

1. Construct sediment fence as close as possible to parallel to the contours of the site
2. Drive 1.5 metre long star pickets into ground, 3 metres apart.
3. Dig a 150MM deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched
5. Fix self supporting geotextile to upslope side of posts with wire ties or as recommended by geotextile manufacturer
6. Join sections of fabric at a support post with a 150mm overlap

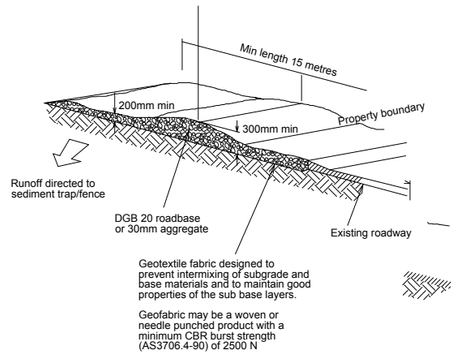
SEDIMENT FENCE




Construction Notes

1. Locate stockpile at least 5 metres from existing vegetation, concentrated water flows, roads and hazard areas.
2. Construct on the contour as a low, flat elongated mound.
3. All stockpiles shall be less than 2 metres in height
4. Rehabilitate in accordance with the SWMP/ESCP.
5. Construct earth bank (Standard Drawing 5-2) on the upslope side to divert run off around the stockpile and a sediment fence (standard Drawing 6-7) 1 to 2 metres downslope of stockpile.
6. Seeded areas to be watered twice weekly until established. Substantial growth required within 14 days or bitumen straw mulch to be placed.
7. Dust to be controlled by watering

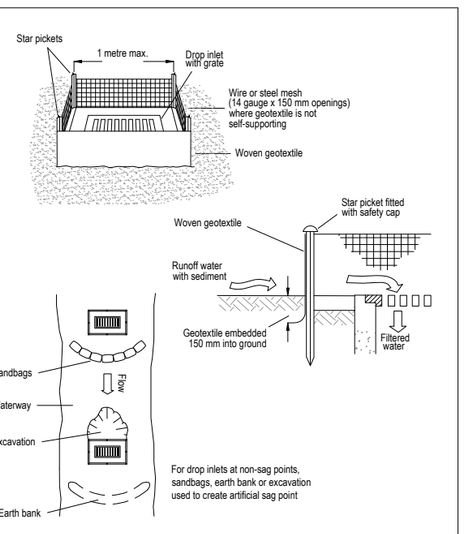
STOCKPILES




Construction Notes

1. Strip topsoil and level site.
2. Compact subgrade
3. Cover area with needle punch geotextile.
4. Construct 200mm thick pad over geotextile using roadbase or 30mm aggregate. Minimum length 15 metres or to building alignment width 3 metres
5. Construct hump immediately within boundary to divert water to a sediment fence or other sediment trap.

STABILISED SITE ACCESS

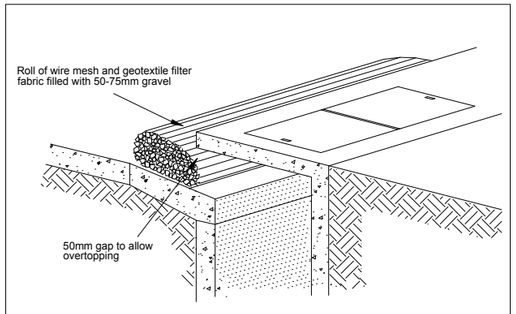



GEOTEXTILE INLET FILTER (SD 6-12)

NTS

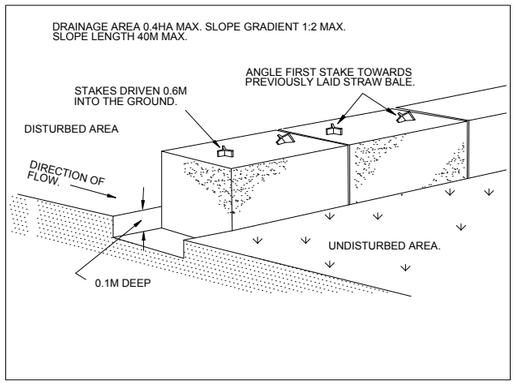
Construction Notes

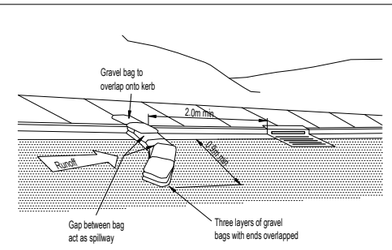
1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.




Portable Gravel Kerb Inlet

Sediment Trap




KERB INLET CONTROL - ON GRADE

Gravel Bag Check Dam

SFS

## NOTES

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LANDCOM'S MANUAL "MANAGING URBAN STORMWATER" 4TH EDITION AUGUST 2004.

WORKS SHALL BE UNDERTAKEN AS OUTLINED ON PLANS EROSION AND SEDIMENT CONTROL MEASURES AFFECTED BY WORKS ARE TO BE RE-ESTABLISHED PRIOR TO THE COMPLETION OF EACH DAY'S WORK.

THE CONTRACTOR IS TO STABILISE ALL STOCKPILES AND DISTURBED AREAS AS SOON AS THEY ARE FORMED TO FINAL LEVELS. STABILISATION TO BE BY HYDROSEEDING / SPRAY GRASS, OR AS DIRECTED BY COUNCIL ENGINEER.

SEED MIXTURE FOR FOOTWAYS AND OTHER AREAS UNDER THE CONTROL OF COUNCIL ARE TO BE IN ACCORDANCE WITH COUNCIL'S SPECIFICATION. FOR OTHER AREAS, THE LIST OF PLANT SPECIES FOR TEMPORARY COVER IS:-

JAPANESE MILLET AND OATS(RYECORN) AT 25kg/ha EACH - SPRING/SUMMER
JAPANESE MILLET AT 10kg/ha AND OATS(RYECORN) AT 30kg/ha - AUTUMN/WINTER

ALL SEEDED AREAS ARE TO BE WATERED TWICE WEEKLY.

WHERE SURFACE SLOPES ARE MORE THAN 4H:1V BATTER THEY SHALL BE TURFED.

DUST CONTROL MEASURES SHALL BE IMPLEMENTED CONTINUOUSLY DURING CONSTRUCTION WORKS. SUCH MEASURES ARE TO BE TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCIL.

TOPSOIL SHALL BE RESPREAD ON CONSTRUCTION AREAS AND STABILISED AS SOON AS POSSIBLE WITHIN 60 DAYS OF DISTURBANCE. ALL DISTURBED AREAS ARE TO BE LEFT WITH A SCARIFIED SURFACE AT ALL TIMES TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING OF TOPSOIL.

FOLLOWING COMPLETION OF WORKS AND STABILISATION OF ALL DISTURBED SURFACES, ALL MATERIALS AND CONTROL MEASURES ARE TO BE REMOVED FROM SITE AND TEMPORARY BASINS FILLED, COMPACTED AND STABILISED.

ALL SITE ACCESS TO BE ACHIEVED FROM DESIGNATED SITE ACCESS. SITE ACCESS TO BE PROTECTED BY THE INSTALLATION OF AN APPROVED SHAKER RAMP. SHAKER RAMP TO BE REGULARLY MAINTAINED TO ENSURE EFFECTIVENESS.

UPON COMPLETION OF FINAL EARTHWORKS OR AFTER WRITTEN DIRECTION OF COUNCIL, IMMEDIATE SILT CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.

ALL DISTURBED OVER ALL STORMWATER, POWER, TELEPHONE, GAS AND SEWER LINES NOT WITHIN STREETS IS TO BE SPRAY GRASSED AS SOON AS POSSIBLE BUT NO LATER THAN WITHIN 14 DAYS AFTER BACKFILL.

NO MORE THAN 150m OF TRENCH IS TO BE OPEN AT ANY ONE TIME. ALL TEMPORARY EARTH BERMS, DIVERSION AND SEDIMENT BASIN EMBANKMENTS ARE TO BE TRACK ROLLED, SEEDED OR MULCHED OR SPRAYED WITH BITUMEN AS SOON AS THEY HAVE BEEN FORMED.

ALL FILLS ARE TO BE LEFT WITH A WINDROW AT LEAST 20cm HIGH AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S EARTHWORKS AMD ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO "SEAL" THE EARTHWORKS.

STABILISATION OF ALL CUT AND FILL SLOPES SHALL BE COMMENCED WITHIN 14 DAYS OF COMPLETION OF FORMATION.

THE CONTRACTOR SHALL MAINTAIN AND PRODUCE ON REQUEST A LOGBOOK ON SITE DETAILING THE FOLLOWING:-

- RECORDS OF ALL RAINFALL
- DAILY CONDITION OF ALL EROSION AND SEDIMENT CONTROL MEASURES
- ANY APPLICATION OF FLOCCULATION AGENTS TO BASINS
- VOLUMES OF WATER DISCHARGED FROM BASINS
- METHOD OF DISPOSAL OF WATER FROM BASINS
- ANY ADDITIONAL REMEDIAL WORKS REQUIRED.

THE ORIGINAL LOGBOOK SHALL BE ISSUED TO THE PROJECT MANAGER ON COMPLETION OF THE WORKS. SEDIMENT CONTROL MEASURES TO BE MONITORED ONCE A WEEK AND AFTER EVERY STORM EVENT.

STOCKPILES TO BE MAX 2 METRE HIGH WITH SEDIMENT FENCING TO LOW SIDE LOCATED CLEAR OF WATERCOURSES

ALL STORMWATER PITS TO BE BLOCKED DURING CONSTRUCTION UNTIL SITE STABILISED.

DURING CONSTRUCTION WORKS ANY WORK AND STORAGE AREAS WHERE SPILLAGE MAY OCCUR MUST BE BUNDED. THE SIZE OF THE AREA TO BE BUNDED AND HEIGHT OF THE BUND WALLS MUST BE CALCULATED AS BEING EQUAL TO 110% OF THE TOTAL VOLUME STORED OR EQUAL TO THE LARGEST STORAGE CONTAINER, WHICH EVER IS GREATER. ALL PIPE WORK EXTENDING FROM THE BUNDED AREA MUST BE DIRECTED OVER THE BUND WALL AND HOSE COUPLINGS MUST BE PLACED SUCH THAT LEAKS AND SPILLAGE'S ARE CONTAINED. THE AREAS MUST BE GRADED TO A PIT/SUMP TO FACILITATE EMPTYING.

ANY IMPORTED FILL USED MUST BE VALIDATED & SUITABLE & FREE OF SALINE & CONTAMINATION

## SEDIMENT & EROSION CONTROL

SE1. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO DISTURBANCE OF THE WORK AREA & TO BE CARRIED OUT IN ACCORDANCE WITH LANDCOM'S "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION" VOLUME 1.

SE2. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES BEFORE MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT REMOVED SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT. NO SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED AND LONGER AS MAY BE DIRECTED BY THE SUPERINTENDENT OR COUNCIL.

SE3. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS.

SE4. WHEN ANY DEVICES ARE TO BE HANDED OVER TO COUNCIL, THEY SHALL BE IN A CLEAN & STABLE CONDITION.

SE5. THE CONTRACTOR SHALL MAINTAIN ALL REVEGETATED AREAS INCLUDING WATERING UNTIL FINAL COMPLETION OF WORKS.

SE6. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL UNTIL FINAL COMPLETION OF WORKS.

SE7. THE CONTRACTOR'S RESPONSIBILITY IS TO ENSURE ALL NECESSARY MEASURES SO AS TO PROTECT ALL DISTURBED AREAS AS PER NOTE SE1. ALL ADDITIONAL COSTS ARE TO BE REFLECTED IN TENDER PRICE EVEN IF SUCH MEASURES ARE NOT INDICATED ON THE SEDIMENT AND EROSION CONTROL PLAN.

SE8. THE CONTRACTOR MUST COMMENCE REHABILITATION WITHIN 5 DAYS OF ANY SITE REGRADING & BATTER FORMATION.

SE9. A 0.3m WIDE STRIP OF TURF TO BE PLACED BEHIND NEW ROADS.

SE10. PROVIDE TURF AROUND ALL SURFACE INLET PITS IN ADDITION TO THE GEOTEXTILE INLET FILTER.

SE11. STOCKPILES TO BE STABILISED WITHIN 14 DAYS OF COMPLETING THE STOCKPILE.

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| B | FINAL ISSUE FOR SSDA | 29.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

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| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 29.10.25 |
| Approved | S. FERGUSON |
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Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN DETAILS AND NOTES

Sheet 145 of 145
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
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