

**Planning and Environment Act 1987**  
**Wyndham Planning Scheme**

**Approved Plan As Required**  
**under Condition 44**  
**Permit No WYP9879/17**  
**Date 07/07/2025**

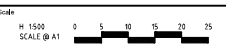
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N: 081219.68  
R: 4.78

TBM ID: 1  
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N: 081226.73  
R: 4.78

**WARNING**  
BEWARE OF UNDERGROUND/OVERHEAD SERVICES  
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.



| Rev | Amendments        | Approved | Date       |
|-----|-------------------|----------|------------|
| B   | RESERVE ADDED     | MR       | 01/07/25   |
| A   | ISSUED TO COUNCIL | MR       | 02/05/2025 |



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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE  
VICTORIA 8007 AUSTRALIA T 61 3 9993 7888  
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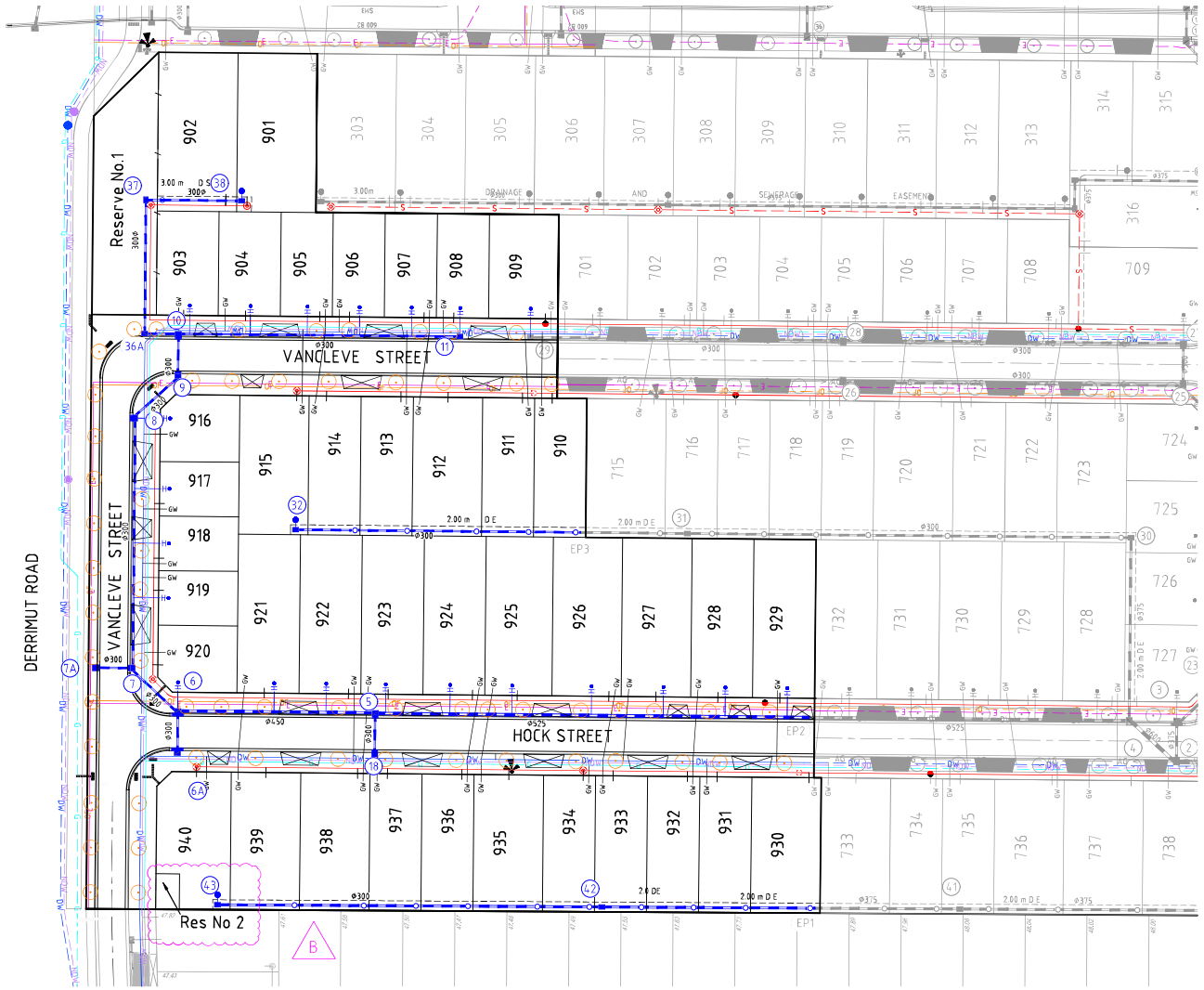
Designed  
**A. KHURSHID**  
Authorised  
**M. READMAN**

Checked  
**B. MUGRIDGE**  
Date  
**22/05/2025**

**BLUESTONE TARNEIT**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**ROAD LAYOUT PLANS - SHEET 1**  
**WYNDHAM CITY COUNCIL**  
**SATTERLEY PROPERTY GROUP**

Dwg No  
**323145-000CR200**  
Rev  
**B**

file name: 323145-000CR200.dwg, layout name: C200, plot/matrix by: Satterley, printer: Satterley, plot date: 22/05/2025, plot time: 10:51:11 AM, plot scale: 1:500, sheet: 2 of 15 sheets



**Planning and Environment Act 1987**  
**Wyndham Planning Scheme**  
  
**Approved Plan As Required**  
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**Permit No WYP9879/17**  
**Date 07/07/2025**

**WARNING**  
 BEWARE OF UNDERGROUND/OVERHEAD SERVICES  
 THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVIDED ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.



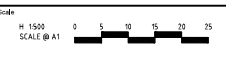
**SERVICE LOCATION TABLE**

| ROAD NAME                     | SEWER         |        | GAS   |        | NON-DRINKING WATER |        | DRINKING WATER |        | NBN (TELECOM) |        | ELECTRICITY    |        |
|-------------------------------|---------------|--------|-------|--------|--------------------|--------|----------------|--------|---------------|--------|----------------|--------|
|                               | SIDE          | OFFSET | SIDE  | OFFSET | SIDE               | OFFSET | SIDE           | OFFSET | SIDE          | OFFSET | U/G CABLE SIDE | OFFSET |
| HOCK STREET                   | NORTH - SOUTH | 1.00   | SOUTH | 2.1    | SOUTH              | 2.57   | SOUTH          | 3.05   | NORTH         | 1.85   | NORTH          | 2.35   |
| VANCLIVE STREET (EAST-WEST)   | NORTH - SOUTH | 1.00   | NORTH | 2.10   | NORTH              | 2.60   | NORTH          | 3.05   | SOUTH         | 1.85   | SOUTH          | 2.35   |
| VANCLIVE STREET (NORTH-SOUTH) | EAST          | 1.00   | EAST  | 2.25   | EAST               | 2.75   | EAST           | 3.25   | WEST          | 0.15   | WEST           | 0.45   |

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY'S STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.

File name: 323145-000CR201.dwg, Project: 323145-000CR201, Printed by: Samira Ibrahim, Date: 22/05/2025, Plot size: 350mm x 500mm, Scale: 1:1, Sheet: 3 of 11 sheets

| Rev | Description       | MR       | Date       |
|-----|-------------------|----------|------------|
| B   | RESERVE ADDED     | MR       | 01/07/25   |
| A   | ISSUED TO COUNCIL | MR       | 02/05/2025 |
|     | Amendments        | Approved | Date       |



System Certified

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**M. READMAN**

Checked  
**B. MUGRIDGE**  
 Date  
**22/05/2025**

**BLUESTONE TARNEIT**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**ROAD LAYOUT PLANS - SHEET 2**  
**WYNDHAM CITY COUNCIL**  
**SATTERLEY PROPERTY GROUP**

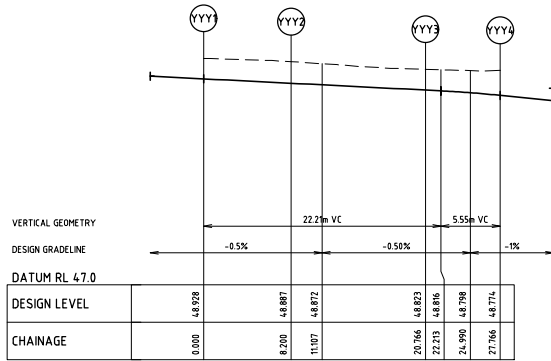
Dwg No  
**323145-000CR201**

Rev  
**B**









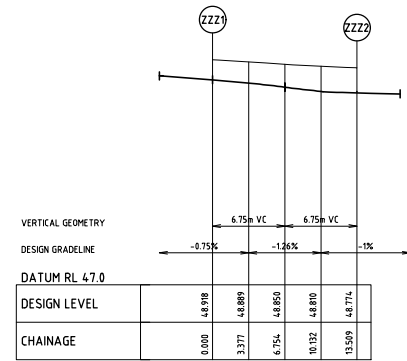
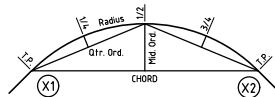
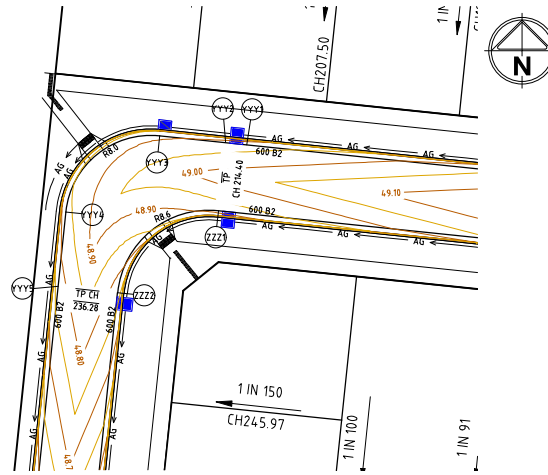
ALIGNMENT YYY

ALIGNMENT YYY

| POINT NO | EASTING    | NORTHING    | RL     |
|----------|------------|-------------|--------|
| YYY1     | 297095.232 | 5812177.422 | 48.928 |
| YYY2     | 297093.243 | 5812177.629 | 48.933 |
| YYY3     | 297087.076 | 5812178.270 | 48.995 |
| 1/4      | 297083.960 | 5812177.980 | 49.024 |
| 1/2      | 297081.207 | 5812176.524 | 49.027 |
| 3/4      | 297079.274 | 5812174.122 | 49.011 |
| YYY4     | 297078.292 | 5812173.139 | 48.995 |
| YYY5     | 297077.568 | 5812164.177 | 48.960 |

| CURVE     | RADIUS | ARC L  | CHORD  | MID ORD | QTR ORD |
|-----------|--------|--------|--------|---------|---------|
| YYY3-YYY4 | 8.000  | 12.566 | 11.314 | 2.343   | -0.609  |

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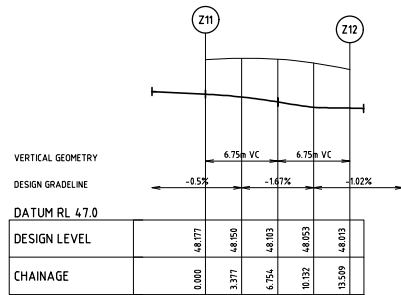


ALIGNMENT ZZZ

ALIGNMENT ZZZ

| POINT NO | EASTING    | NORTHING    | RL     |
|----------|------------|-------------|--------|
| ZZZ1     | 297092.581 | 5812171.263 | 48.918 |
| 1/4      | 297089.240 | 5812170.952 | 48.889 |
| 1/2      | 297086.272 | 5812169.386 | 48.850 |
| 3/4      | 297084.130 | 5812166.804 | 48.810 |
| ZZZ2     | 297083.138 | 5812163.598 | 48.774 |

| CURVE     | RADIUS | ARC L  | CHORD  | MID ORD | QTR ORD |
|-----------|--------|--------|--------|---------|---------|
| ZZZ1-ZZZ2 | 8.600  | 13.509 | 12.162 | 2.519   | -0.655  |

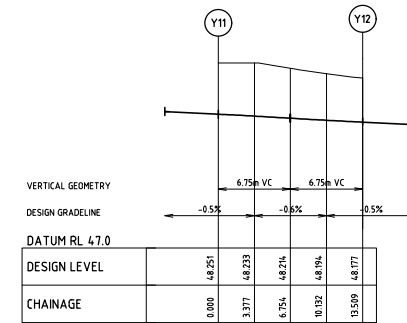
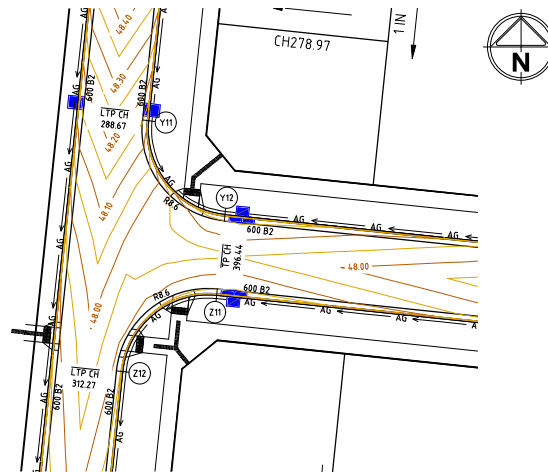


ALIGNMENT Z1

ALIGNMENT Z

| POINT NO | EASTING    | NORTHING    | RL     |
|----------|------------|-------------|--------|
| Z11      | 297084.725 | 5812095.670 | 48.177 |
| 1/4      | 297081.384 | 5812095.350 | 48.150 |
| 1/2      | 297078.416 | 5812093.793 | 48.103 |
| 3/4      | 297076.273 | 5812091.211 | 48.053 |
| Z12      | 297075.282 | 5812088.005 | 48.015 |

| CURVE   | RADIUS | ARC L  | CHORD  | MID ORD | QTR ORD |
|---------|--------|--------|--------|---------|---------|
| Z11-Z12 | 8.600  | 13.509 | 12.162 | 2.519   | -0.655  |



ALIGNMENT Y1

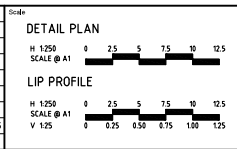
ALIGNMENT Y

| POINT NO | EASTING    | NORTHING    | RL     |
|----------|------------|-------------|--------|
| Y11      | 297077.722 | 5812114.479 | 48.251 |
| 1/4      | 297078.033 | 5812108.138 | 48.232 |
| 1/2      | 297079.598 | 5812105.170 | 48.214 |
| 3/4      | 297080.181 | 5812103.027 | 48.195 |
| Y12      | 297085.387 | 5812102.036 |        |

| CURVE   | RADIUS | ARC L  | CHORD  | MID ORD | QTR ORD |
|---------|--------|--------|--------|---------|---------|
| Y11-Y12 | 8.600  | 13.509 | 12.162 | 2.519   | -0.655  |

file name: 323145-000CR50.dwg, layout name: C500, plot style by: Satterley, Printer: HP DesignJet 2450, Plot Device: HP DesignJet 2450, Plot Date: 22/05/2025, 7 of 11 Sheets

| Rev | Amendments        | MR | 02/05/2025 |
|-----|-------------------|----|------------|
| A   | ISSUED TO COUNCIL |    |            |



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**Satterley**

Designed  
**A. KHURSHID**

Checked  
**B. MURGRIDGE**

Date  
**22/05/2025**

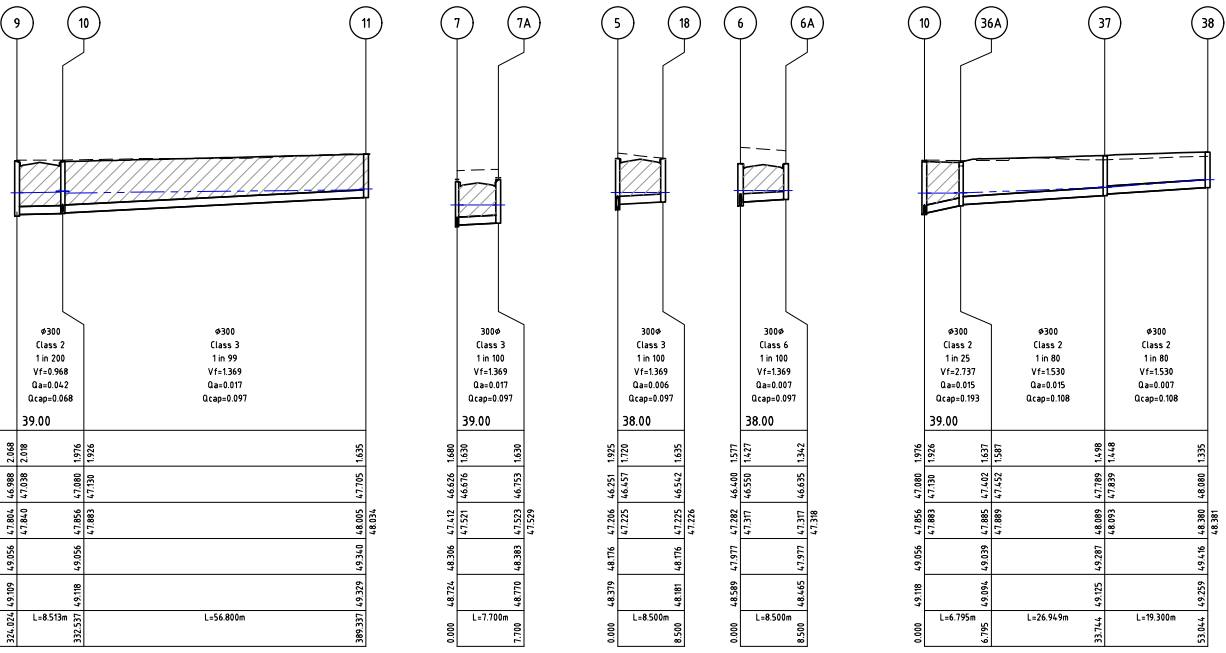
**BLUESTONE TARNEIT  
 STAGE 9  
 ROAD AND DRAINAGE  
 INTERSECTION DETAILS - SHEET 1  
 WYNDHAM CITY COUNCIL  
 SATTERLEY PROPERTY GROUP**

Dwg No  
**323145-000CR500**

Rev  
**A**

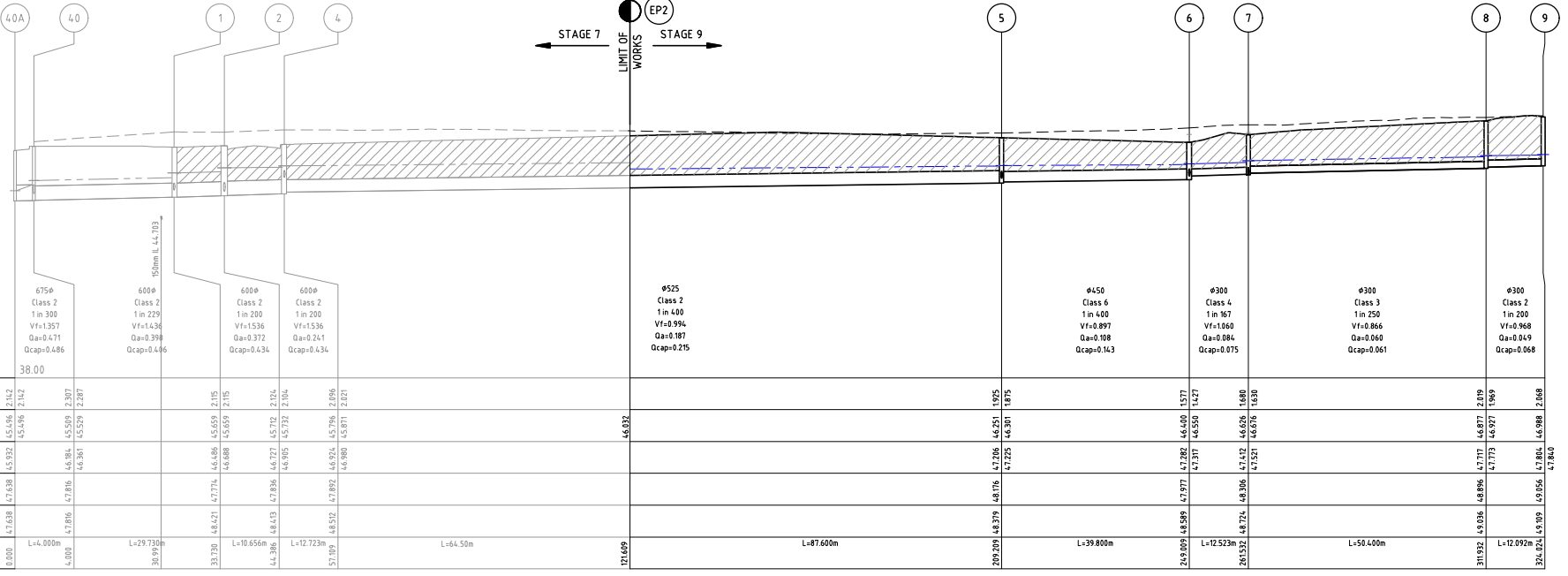


CRUSHED ROCK BACKFILL



| Chainage               | 9          | 10         | 11         | 7          | 7A         | 5          | 18         | 6          | 6A         | 10         | 36A        | 37         | 38         |
|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pipe Diameter          | ø300       | ø300       | ø300       | 300ø       | 300ø       | 300ø       | 300ø       | 300ø       | 300ø       | ø300       | ø300       | ø300       | ø300       |
| Pipe Class             | Class 2    | Class 3    | Class 3    | Class 3    | Class 3    | Class 3    | Class 3    | Class 6    | Class 6    | Class 2    | Class 2    | Class 2    | Class 2    |
| Pipe Grade             | 1 in 200   | 1 in 99    | 1 in 99    | 1 in 100   | 1 in 100   | 1 in 100   | 1 in 100   | 1 in 100   | 1 in 100   | 1 in 25    | 1 in 80    | 1 in 80    | 1 in 80    |
| Velocity (m/s)         | Vf=0.968   | Vf=1.369   | Vf=1.369   | Vf=1.369   | Vf=1.369   | Vf=1.369   | Vf=1.369   | Vf=2.737   | Vf=2.737   | Vf=1.060   | Vf=1.530   | Vf=1.530   | Vf=1.530   |
| Pipe Flow (m3/s)       | Qa=0.042   | Qa=0.017   | Qa=0.017   | Qa=0.017   | Qa=0.017   | Qa=0.017   | Qa=0.017   | Qa=0.007   | Qa=0.007   | Qa=0.015   | Qa=0.015   | Qa=0.015   | Qa=0.007   |
| Pipe Capacity (m3/s)   | Ocap=0.068 | Ocap=0.097 | Ocap=0.097 | Ocap=0.097 | Ocap=0.097 | Ocap=0.097 | Ocap=0.097 | Ocap=0.097 | Ocap=0.097 | Ocap=0.193 | Ocap=0.108 | Ocap=0.108 | Ocap=0.108 |
| DATUM                  | 39.00      | 39.00      | 39.00      | 39.00      | 39.00      | 38.00      | 38.00      | 38.00      | 38.00      | 39.00      | 39.00      | 39.00      | 39.00      |
| DEPTH TO INVERT        | 2.068      | 2.038      | 2.038      | 1.690      | 1.690      | 1.690      | 1.690      | 1.571      | 1.571      | 1.976      | 1.976      | 1.976      | 1.976      |
| DESIGN INVERT LEVEL    | 46.938     | 46.968     | 46.968     | 47.310     | 47.310     | 47.310     | 47.310     | 47.429     | 47.429     | 47.024     | 47.024     | 47.024     | 47.024     |
| HYDRAULIC GRADE LEVEL  | 47.804     | 47.804     | 47.804     | 47.804     | 47.804     | 47.804     | 47.804     | 47.804     | 47.804     | 47.804     | 47.804     | 47.804     | 47.804     |
| FINISHED SURFACE LEVEL | 48.056     | 48.056     | 48.056     | 48.056     | 48.056     | 48.056     | 48.056     | 48.056     | 48.056     | 48.056     | 48.056     | 48.056     | 48.056     |
| EXISTING SURFACE LEVEL | 49.109     | 49.109     | 49.109     | 49.109     | 49.109     | 49.109     | 49.109     | 49.109     | 49.109     | 49.109     | 49.109     | 49.109     | 49.109     |
| CHAINAGE               | L=8.513m   | L=56.800m  | L=38.337m  | L=7.700m   | L=7.700m   | L=8.500m   | L=8.500m   | L=8.500m   | L=8.500m   | L=6.795m   | L=26.949m  | L=33.744m  | L=19.300m  |

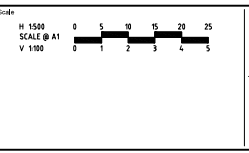
Planning and Environment Act 1987  
 Wyndham Planning Scheme  
 Approved Plan As Required  
 under Condition 44  
 Permit No WYP9879/17  
 Date 07/07/2025



| Chainage               | 4.0A       | 4.0        | 1          | 2          | 4          | 5          | 6          | 7          | 8          | 9          |
|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pipe Diameter          | 675ø       | 600ø       | 600ø       | 600ø       | 600ø       | ø525       | ø450       | ø300       | ø300       | ø300       |
| Pipe Class             | Class 2    | Class 2    | Class 2    | Class 2    | Class 2    | Class 2    | Class 6    | Class 4    | Class 3    | Class 2    |
| Pipe Grade             | 1 in 300   | 1 in 229   | 1 in 200   | 1 in 200   | 1 in 200   | 1 in 400   | 1 in 400   | 1 in 167   | 1 in 250   | 1 in 200   |
| Velocity (m/s)         | Vf=1.357   | Vf=1.436   | Vf=1.536   | Vf=1.536   | Vf=1.536   | Vf=0.996   | Vf=0.897   | Vf=1.060   | Vf=0.866   | Vf=0.968   |
| Pipe Flow (m3/s)       | Qa=0.271   | Qa=0.308   | Qa=0.372   | Qa=0.372   | Qa=0.372   | Qa=0.187   | Qa=0.198   | Qa=0.084   | Qa=0.060   | Qa=0.049   |
| Pipe Capacity (m3/s)   | Ocap=0.486 | Ocap=0.446 | Ocap=0.434 | Ocap=0.434 | Ocap=0.434 | Ocap=0.215 | Ocap=0.143 | Ocap=0.075 | Ocap=0.061 | Ocap=0.068 |
| DATUM                  | 38.00      | 38.00      | 38.00      | 38.00      | 38.00      | 46.832     | 46.832     | 46.832     | 46.832     | 46.832     |
| DEPTH TO INVERT        | 2.142      | 2.175      | 2.175      | 2.175      | 2.175      | 1.875      | 1.875      | 1.875      | 1.875      | 1.875      |
| DESIGN INVERT LEVEL    | 45.858     | 45.858     | 45.858     | 45.858     | 45.858     | 45.957     | 45.957     | 45.957     | 45.957     | 45.957     |
| HYDRAULIC GRADE LEVEL  | 46.804     | 46.804     | 46.804     | 46.804     | 46.804     | 46.804     | 46.804     | 46.804     | 46.804     | 46.804     |
| FINISHED SURFACE LEVEL | 47.638     | 47.638     | 47.638     | 47.638     | 47.638     | 47.638     | 47.638     | 47.638     | 47.638     | 47.638     |
| EXISTING SURFACE LEVEL | 48.786     | 48.786     | 48.786     | 48.786     | 48.786     | 48.786     | 48.786     | 48.786     | 48.786     | 48.786     |
| CHAINAGE               | L=4.000m   | L=29.730m  | L=33.730m  | L=10.656m  | L=12.723m  | L=64.50m   | L=87.600m  | L=39.800m  | L=50.400m  | L=12.092m  |

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|                   |                                  |
|-------------------|----------------------------------|
| Scale             | H 1:500<br>SCALE @ A1<br>V 1:100 |
| Issue             | A                                |
| Issued to Council | MR                               |
| Amendments        | 02/05/2025                       |
| Approved          | Date                             |

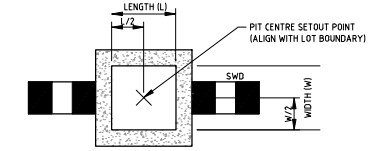


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**Satterley**  
 Designed  
 A. KHURSHID  
 Authorised  
 M. READMAN  
 Checked  
 B. MUGRIDGE  
 Date  
 22/05/2025

**BLUESTONE TARNEIT  
 STAGE 9  
 ROAD AND DRAINAGE  
 DRAINAGE LONG SECTIONS - SHEET 1  
 WYNDHAM CITY COUNCIL  
 SATTERLEY PROPERTY GROUP**  
 Draw No  
 323145-000CR600  
 Rev  
 A

Planning and Environment Act 1987  
 Wyndham Planning Scheme  
 Approved Plan As Required  
 under Condition 44  
 Permit No WYP9879/17  
 Date 07/07/2025



TYPICAL DRAINAGE PIT SETOUT POINT 'C'  
 JUNCTION PIT / EASEMENT PIT  
 NOT TO SCALE

|                                   | 30         | 31        | 32        |
|-----------------------------------|------------|-----------|-----------|
| Pipe Diameter                     | 300ø       |           |           |
| Pipe Class                        | Class 2    |           |           |
| Pipe Grade                        | 1 in 300   |           |           |
| Velocity (m/s)                    | Vf=0.790   |           |           |
| Pipe Flow (m <sup>3</sup> /s)     | Qa=0.071   |           |           |
| Pipe Capacity (m <sup>3</sup> /s) | Qcap=0.075 |           |           |
| DATUM                             | 39.00      |           |           |
| DEPTH TO INVERT                   | 1.310      | 1.267     | 0.897     |
| DESIGN INVERT LEVEL               | 47.228     | 47.865    | 48.128    |
| HYDRAULIC GRADE LEVEL             | 47.598     | 48.140    | 48.428    |
| FINISHED SURFACE LEVEL            | 48.538     | 49.081    | 49.024    |
| EXISTING SURFACE LEVEL            | 48.922     | 48.934    | 49.869    |
| CHAINAGE                          | L=89.492m  | L=21.492m | L=57.508m |

|                                   | 41         | 42        | 43        |
|-----------------------------------|------------|-----------|-----------|
| Pipe Diameter                     | 375ø       |           |           |
| Pipe Class                        | Class 2    |           |           |
| Pipe Grade                        | 1 in 300   |           |           |
| Velocity (m/s)                    | Vf=0.916   |           |           |
| Pipe Flow (m <sup>3</sup> /s)     | Qa=0.058   |           |           |
| Pipe Capacity (m <sup>3</sup> /s) | Qcap=0.101 |           |           |
| DATUM                             | 38.00      |           |           |
| DEPTH TO INVERT                   | 16.06      | 11.12     | 10.92     |
| DESIGN INVERT LEVEL               | 46.300     | 46.671    | 46.729    |
| HYDRAULIC GRADE LEVEL             | 46.755     | 47.044    | 47.074    |
| FINISHED SURFACE LEVEL            | 47.897     | 47.883    | 47.885    |
| EXISTING SURFACE LEVEL            | 47.993     | 47.883    | 47.722    |
| CHAINAGE                          | L=29.189m  | L=43.000m | L=77.501m |

DRAINAGE PIT SCHEDULE

| NAME | PIT TYPE              | COORDINATES |             | INTERNAL |        | INLET |           | OUTLET |           | PIT      |       | REMARKS               |
|------|-----------------------|-------------|-------------|----------|--------|-------|-----------|--------|-----------|----------|-------|-----------------------|
|      |                       | EASTING     | NORTHING    | WIDTH    | LENGTH | DIA   | INV LEVEL | DIA    | INV LEVEL | FS LEVEL | DEPTH |                       |
| 36A  | JUNCTION PIT          | 297087.582  | 581219.273  | 600      | 900    | 300   | 47.452    | 300    | 47.402    | 49.039   | 1.637 | STD DWG EDM 601 & 605 |
| 37   | JUNCTION PIT          | 297090.368  | 5812206.078 | 600      | 900    | 300   | 47.839    | 300    | 47.789    | 49.287   | 1.498 | STD DWG EDM 601 & 605 |
| 38   | JUNCTION PIT          | 297109.565  | 5812204.083 | 600      | 900    | 300   | 48.080    | 300    | 48.080    | 49.416   | 1.335 | STD DWG EDM 601 & 605 |
| 5    | SIDE ENTRY PIT        | 297126.703  | 5812098.797 | 750      | 900    | 450   | 46.301    | 525    | 46.251    | 48.176   | 1.925 | STD DWG EDM 601 & 605 |
| 6    | DOUBLE SIDE ENTRY PIT | 297087.087  | 5812102.915 | 600      | 900    | 300   | 46.550    | 450    | 46.400    | 47.977   | 1.577 | STD DWG EDM 601 & 605 |
| 7    | SIDE ENTRY PIT        | 297078.869  | 5812112.365 | 600      | 900    | 300   | 46.676    | 300    | 46.626    | 48.306   | 1.680 | STD DWG EDM 601 & 605 |
| 8    | SIDE ENTRY PIT        | 297084.079  | 5812162.495 | 600      | 900    | 300   | 46.927    | 300    | 46.877    | 48.896   | 2.019 | STD DWG EDM 601 & 605 |
| 9    | SIDE ENTRY PIT        | 297093.447  | 5812170.115 | 600      | 900    | 300   | 47.038    | 300    | 46.988    | 49.056   | 2.068 | STD DWG EDM 601 & 605 |
| 10   | SIDE ENTRY PIT        | 297094.346  | 5812178.570 | 600      | 900    | 300   | 47.130    | 300    | 47.080    | 49.056   | 1.976 | STD DWG EDM 601 & 605 |
| 11   | JUNCTION PIT          | 297150.842  | 5812172.698 | 600      | 900    | 300   | 47.105    | 300    | 47.105    | 49.340   | 1.635 | STD DWG EDM 601 & 605 |
| 7A   | SIDE ENTRY PIT        | 297071.211  | 5812113.161 | 600      | 900    | 300   | 46.753    | 300    | 46.753    | 48.383   | 1.630 | STD DWG EDM 601 & 605 |
| 6A   | DOUBLE SIDE ENTRY PIT | 297086.208  | 5812094.460 | 600      | 900    | 300   | 46.635    | 47.977 | 46.635    | 47.977   | 1.342 | STD DWG EDM 602 & 607 |
| 18   | SIDE ENTRY PIT        | 297125.795  | 5812090.346 | 600      | 900    | 300   | 46.542    | 300    | 46.542    | 48.176   | 1.635 | STD DWG EDM 601 & 605 |
| 42   | JUNCTION PIT          | 297168.525  | 5812055.532 | 600      | 900    | 300   | 46.721    | 375    | 46.671    | 47.813   | 1.142 | STD DWG EDM 605       |
| 43   | JUNCTION PIT          | 297091.410  | 5812063.255 | 600      | 900    | 300   | 46.979    | 300    | 46.979    | 47.885   | 0.906 | STD DWG EDM 605       |
| 32   | JUNCTION PIT          | 297114.160  | 5812137.049 | 600      | 900    | 300   | 48.128    | 300    | 48.128    | 49.024   | 0.897 | STD DWG EDM 601 & 605 |

file name: 323145-000CR601.dwg, project name: 323145-000, plotted by: Sammi Dwyer, date: 22/05/2025, scale: 1:1000, sheet: 9 of 11 sheets, title: 323145-000CR601.dwg, project name: 323145-000, plotted by: Sammi Dwyer, date: 22/05/2025, scale: 1:1000, sheet: 9 of 11 sheets

|                   |                                  |                              |
|-------------------|----------------------------------|------------------------------|
| Scale             | H 1:500<br>SCALE @ A1<br>V 1:100 | 0 5 10 15 20 25<br>1 2 3 4 5 |
| ISSUED TO COUNCIL | MR                               | 02/05/2025                   |
| Amendments        | Approved                         | Date                         |

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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE  
 VICTORIA 3007 AUSTRALIA T 61 3 9993 7888  
 spiire.com.au ABN 55 050 029 635

Designed  
 A. KHURSHID  
 Authorised  
 M. READMAN  
 Checked  
 B. MUGRIDGE  
 Date  
 22/05/2025

**BLUESTONE TARNEIT  
 STAGE 9  
 ROAD AND DRAINAGE  
 DRAINAGE LONG SECTIONS - SHEET 2  
 WYNDHAM CITY COUNCIL  
 SATTERLEY PROPERTY GROUP**
  
 Date  
 22/05/2025  
 Drawn  
 323145-000CR601  
 Rev  
 A

**DESIGN PAVEMENT PROFILE**

| PAVEMENT LAYER                                      | DESCRIPTION   | DEPTH (mm) |         |
|---|---|------------|---------|
|   |   | TYPE B*    | TYPE C* |
| ASPHALT (WEARING)                                   | SIZE 14 TYPE H (C320)   |            |         |
| ASPHALT (WEARING)                                   | SIZE 10 TYPE N (C320)   | 30         |         |
| ASPHALT (WEARING)                                   | SIZE 10 TYPE L (C320)   |            | 30      |
| ASPHALT (WEARING)                                   | SIZE 7 TYPE L (C320)  |            |         |
| ASPHALT (INTERMEDIATE)                              | SIZE 20 TYPE SI (C320)  |            |         |
| ASPHALT (BASE)                                      | SIZE 14 TYPE HP (A8E)   |            |         |
| ASPHALT (BASE)                                      | SIZE 20 TYPE SF (C320)  |            |         |
| ASPHALT (BASE)                                      | SIZE 10 TYPE N (C320)   | 30         | 30      |
| CONCRETE BASE                                       | N25 CONCRETE WITH S182 MESH TOP 50 COVER                                      |            |         |
| PRIMECOAT   | PRIME & 10mm SAM (S 18RF)   | 10         | 10      |
| BASE  | VICROADS CLASS 2 FCR (20mm)   | 130        | 130     |
| SUBBASE   | VICROADS CLASS 3 FCR (20mm)   |            | 150     |
| SUBBASE   | 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE MECHANICALLY COMPACTED  |            |         |
| UPPER SUBBASE                                       | VICROADS CLASS 3 FCR (20mm)   | 120        |         |
| LOWER SUBBASE                                       | VICROADS CLASS 3 FCR (20mm)   | 120        |         |
| CAPPING   | VICROADS TYPE A CAPPING LAYER OR APPROVED ALTERNATIVE AS PER TABLE 5 (CBR=8%) | 150        | 150     |
| CONSTRUCTION LAYER                                  | VICROADS TYPE A CAPPING LAYER OR APPROVED ALTERNATIVE AS PER TABLE 5 (CBR=8%) | 150        | 150     |
| SUBGRADE  | UNIT 3 NATURAL RESIDUAL CLAYS OR CONTROLLED (ENGINEERED) FILL (CBR>2.0%)      |            |         |
| TOTAL PAVEMENT DEPTH (Excluding Construction Layer) |   | 590        | 500     |

\* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES  
 \* PAVEMENT DEPTH - INCLUDES SAM LAYER & EXCLUDES CONSTRUCTION LAYER

**GENERAL NOTES:**

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAL LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCA4 "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.

| ROAD NAME      | TYPE |
|----------------|------|
| VANLEVE STREET | C    |
| HOCK STREET    | B    |

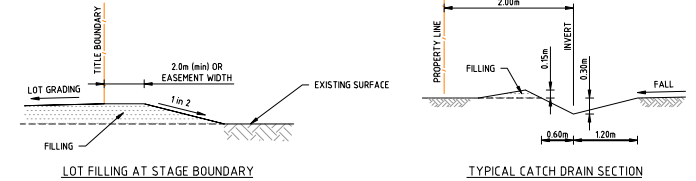


**PAVEMENT PLAN**

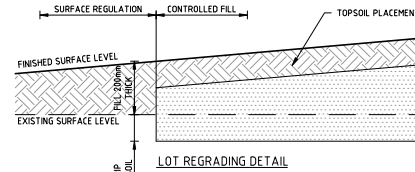
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SCALE @ A1



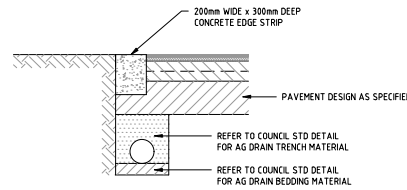
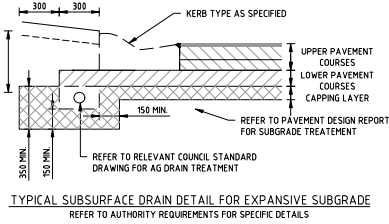
**Planning and Environment Act 1987  
 Wyndham Planning Scheme**  
**Approved Plan As Required  
 under Condition 44  
 Permit No WYP9879/17  
 Date 07/07/2025**



NOT TO SCALE



NOT TO SCALE



**LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL**

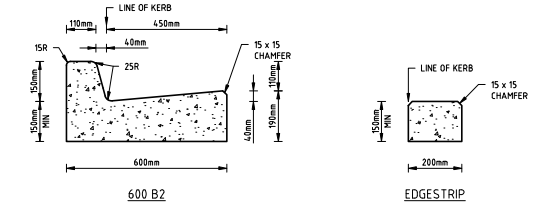
**PAVEMENT DETAILS**

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY GROUND SCIENCE WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF GROUND SCIENCE.

THE DESIGN HAS BEEN EXTRACTED FROM THE BLUESTONE ESTATE, 800 DERRIMUT ROAD, TARNEIT REPORT ON "GEOTECHNICAL INVESTIGATION FOR "BLUESTONE" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS.  
 ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO GROUND SCIENCE AND COPIED TO SPIIRE.



**STANDARD KERB PROFILES**

NOTE: ALL KERB & CHANNEL AS PER EDM STD DRAWING EDM3 301

H 1100  
SCALE @ A1

file name: 323145-000CR700.dwg, project name: C320, plotted by: A1, drawing title: ROAD AND DRAINAGE PAVEMENT AND TYPICAL DETAILS - SHEET 1 OF 11 SHEETS, plot date: 04/07/2025, 3:03 PM Sheet: 10 of 11 Sheets

| Rev | Amendments        | Approved | Date       |
|-----|-------------------|----------|------------|
| B   | PAVEMENT UPDATES  | MR       | 04/07/25   |
| A   | ISSUED TO COUNCIL | MR       | 02/05/2025 |



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Designed  
**A. KHURSHID**  
 Authorised  
**M. READMAN**

Checked  
**B. MURDIGE**  
 Date  
**22/05/2025**

**BLUESTONE TARNEIT  
 STAGE 9  
 ROAD AND DRAINAGE  
 PAVEMENT AND TYPICAL DETAILS - SHEET 1  
 WYNDHAM CITY COUNCIL  
 SATTERLEY PROPERTY GROUP**

Dwg No  
**323145-000CR700**  
 Rev  
**B**

SIGNAGE SCHEDULE

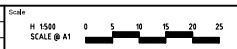
| REFERENCE NO. | SIGN  | COMMENTS   |
|---------------|---|--|
| S1            |  | STREET NAME PLATES TO BE IN ACCORDANCE WITH WCC SDR12, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE |
| S2            |  | G9-18  |
| S3            |  | G9-20  |
| S4            |  | D4-5   |
| S5            |  | D-4-2-1  |
| S6            |  | D-4-1-3 (L)  |
| S7            |  | D-4-1-3 (R)  |



Planning and Environment Act 1987  
Wyndham Planning Scheme  
Approved Plan As Required  
under Condition 44  
Permit No WYP9879/17  
Date 07/07/2025


file name: 323145-000CR800.dwg, layout: name: c8000, path: r:\p\323145-000CR800.dwg, plot date: 22/05/2025, 11 of 11 sheets

| Rev | Amendments        | Approved | Date       |
|-----|-------------------|----------|------------|
| A   | ISSUED TO COUNCIL | MR       | 02/05/2025 |




  
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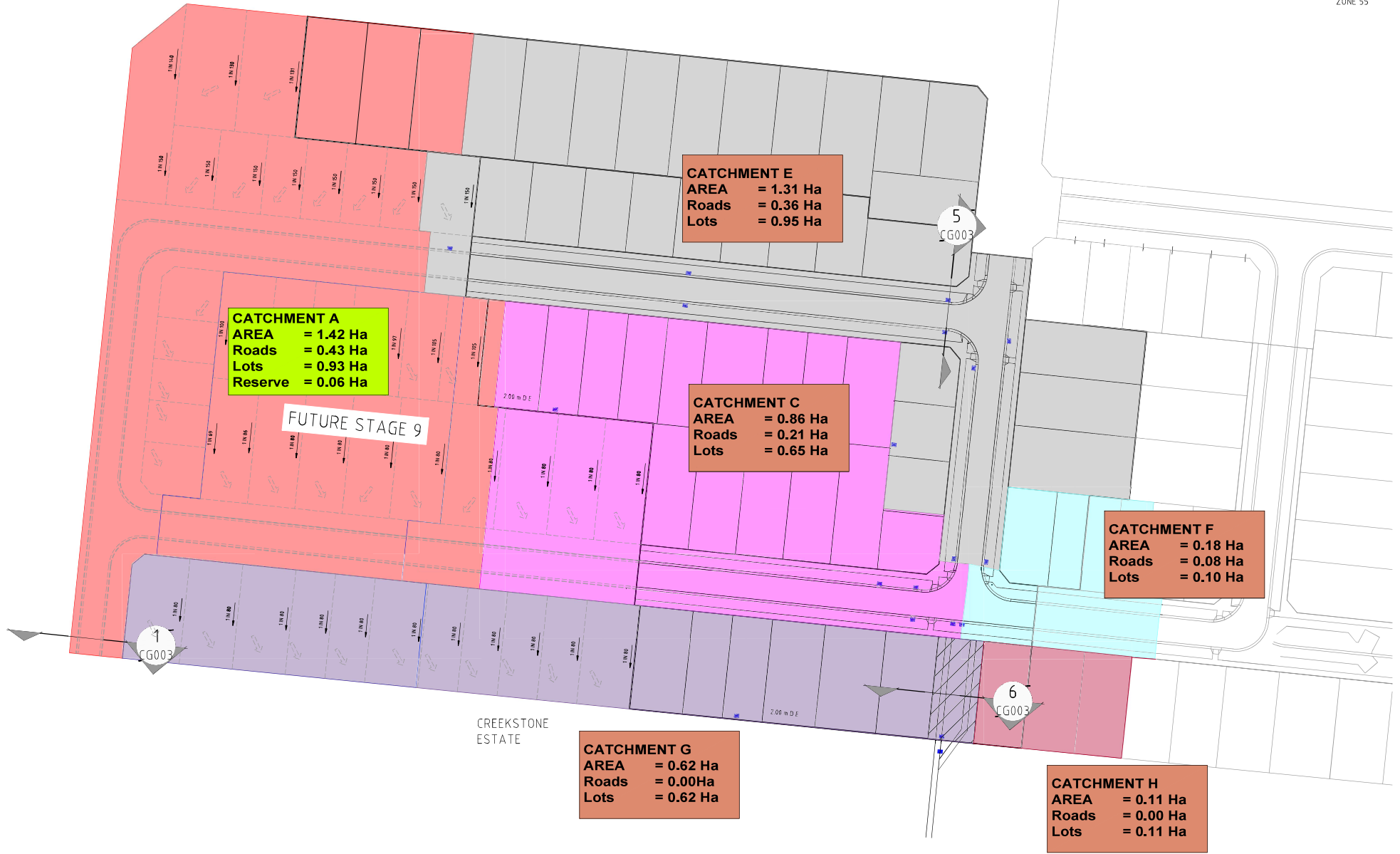

  
 Designed  
 A. KHURSHID
   
 Authorised  
 M. READMAN
   
 Checked  
 B. MUGRIDGE
   
 Date  
 22/05/2025

**BLUESTONE TARNEIT**  
**STAGE 9**  
**ROAD AND DRAINAGE**  
**SIGNAGE AND LINEMARKING - SHEET 1**  
 WYNDHAM CITY COUNCIL  
 SATTERLEY PROPERTY GROUP

Dig No  
**323145-000CR800**
  
 Rev  
**A**

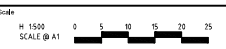






file name: 323145-000CG03A.dwg, Calculations.dwg, layout name: CG03A, plot by: A.Khurshid  
 Project: 323145-000CG03A, Client: WYNDHAM CITY COUNCIL, Date: 16/05/2025, P: 1/20

| Rev | Amendments        | Approved | Date       |
|-----|-------------------|----------|------------|
| A   | ISSUED TO COUNCIL | MR       | 16/05/2025 |



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 spiire.com.au ABN 55 050 029 635

Designed  
 A.KHURSHID  
 Authored  
 M.READMAN

Checked  
 B.MUGRIDGE  
 Date  
 16/05/2025

**BLUESTONE TARNEIT  
 STAGE 9**

CATCHMENT LAYOUT PLAN - SHEET 1  
 WYNDHAM CITY COUNCIL  
 SATTERLEY PROPERTY GROUP

Dwg No  
**323145-000CG03A** A

|               |                   |           |            |
|---------------|-------------------|-----------|------------|
| Project:      | Bluestone Stage 7 | Designed: | A.Khurshid |
| Reference No: | 308815            | Checked:  |            |

| Annual Exceedance Probability (%) | 63.20%     | 50%        | 20%         | 10%         | 5%         | 2%           | 1%           |
|-----------------------------------|------------|------------|-------------|-------------|------------|--------------|--------------|
| AEP Coefficients                  | 0.29334241 | 0.43072264 | 0.78221854  | 0.99974839  | 1.17511109 | 1.33958529   | 1.53339401   |
| C1                                | 0.10303016 | 0.0911002  | 0.09021729  | 0.0910605   | 0.04243305 | 0.01869348   | 0.09999704   |
| C2                                | 0.1251024  | 0.1371027  | 0.14867868  | 0.15972588  | 0.17254305 | 0.20252903   | 0.22353375   |
| C3                                | -0.1012086 | -0.1029764 | -0.10114869 | -0.10270637 | -0.1056522 | -0.11657296  | -0.12921071  |
| C4                                | 0.02238664 | 0.0224267  | 0.0204476   | 0.02016705  | 0.02056878 | 0.020271893  | 0.020376039  |
| C5                                | -0.0020249 | -0.0020634 | -0.00178173 | -0.00188361 | -0.001896  | -0.001937417 | -0.002174842 |
| C6                                | 7.27E-05   | 7.13E-05   | 5.48E-05    | 5.05E-05    | 5.01E-05   | 5.88E-05     | 6.63E-05     |

| AEP to ARI Conversion | AEP % | ARI  |
|-----------------------|-------|------|
| 63.20%                |       | 1    |
| 50%                   |       | 1.44 |
| 20%                   |       | 4.48 |
| 10%                   |       | 10   |
| 5%                    |       | 20   |
| 2%                    |       | 50   |
| 1%                    |       | 100  |

1% AEP URBAN ARI Drainage Calculations

| DEVELOPED CATCHMENT | Street | Area (ha) | IA (mm) | C 1% | C 20% | As 1% | IAe 1% | As 20% | IAe 20% | Flow Length (m) | Velocity 1% (m/s) | Velocity 20% (m/s) | Tc 1% (min) | Tc 20% (min) | It 1% (mm/h) | It 20% (mm/h) | Q 1% (m³/s) | Qpe 1% (m³/s) | Qpe 20% (m³/s) | Comments  |
|---------------------|--------|-----------|---------|------|-------|-------|--------|--------|---------|-----------------|-------------------|--------------------|-------------|--------------|--------------|---------------|-------------|---------------|----------------|-----------|
| A                   |        | 1.42      | 1.42    | 0.85 | 0.68  | 1.21  | 1.21   | 0.69   | 0.68    | 252             | 0.62              | 1.5                | 13.08       | 7.80         | 117.33       | 71.21         | 0.385       | 0.190         | 0.205          | SECTION 1 |
| C                   |        | 0.86      | 0.86    | 0.88 | 0.70  | 0.76  | 0.76   | 0.60   | 0.60    | 172             | 0.62              | 1.5                | 10.91       | 6.91         | 130.77       | 74.80         | 0.275       | 0.126         | 0.150          |           |
| E                   |        | 1.31      | 1.31    | 0.88 | 0.70  | 1.15  | 1.15   | 0.81   | 0.81    | 240             | 0.62              | 1.5                | 12.69       | 7.87         | 116.15       | 71.75         | 0.262       | 0.162         | 0.200          | SECTION 5 |
| F                   |        | 0.18      | 0.18    | 0.87 | 0.69  | 0.16  | 0.16   | 0.12   | 0.12    | 66              | 0.62              | 1.5                | 7.58        | 5.72         | 156.38       | 80.88         | 0.068       | 0.028         | 0.040          |           |
| G                   |        | 0.62      | 0.62    | 0.89 | 0.71  | 0.95  | 0.95   | 0.44   | 0.44    | 217             | 0.62              | 1.5                | 11.90       | 7.41         | 122.81       | 72.79         | 0.189       | 0.088         | 0.100          |           |
| H                   |        | 0.11      | 0.11    | 0.89 | 0.71  | 0.10  | 0.10   | 0.08   | 0.08    | 50              | 0.62              | 1.5                | 6.60        | 5.58         | 156.70       | 81.57         | 0.044       | 0.018         | 0.028          |           |
| G+E+F+G+H           |        | 3.08      | 3.08    | 0.89 | 0.71  |       | 2.79   |        | 2.18    | 280             | 0.62              | 1.5                | 13.97       | 8.11         | 113.33       | 70.01         | 0.890       | 0.423         | 0.442          | SECTION 6 |

|               |                   |
|---------------|-------------------|
| Project Name: | Bluestone Stage 7 |
| Date:         | 15-December-2023  |
| Designed:     | A.Khurshid        |
| Checked:      |                   |

|                      |      |
|----------------------|------|
| Over Runoff:         | 0.75 |
| Proposed Lot Runoff: | 0.5  |
| Open Space Runoff:   | 0.15 |

| Catchment | AREA (ha)    |      |            |       | Fraction Impervious (%) | Weighted Runoff |       |
|-----------|--------------|------|------------|-------|-------------------------|-----------------|-------|
|           | Road Reserve | Lots | Open Space | TOTAL |                         | C1%             | C30%  |
| A         | 0.43         | 0.83 | 0.06       | 1.42  | 0.76                    | 0.653           | 0.675 |
| C         | 0.21         | 0.65 | 0.00       | 0.86  | 0.79                    | 0.682           | 0.688 |
| E         | 0.26         | 0.95 | 0.00       | 1.31  | 0.79                    | 0.690           | 0.697 |
| F         | 0.08         | 0.10 | 0.00       | 0.18  | 0.78                    | 0.672           | 0.669 |
| G         | 0.20         | 0.62 | 0.00       | 0.82  | 0.80                    | 0.693           | 0.707 |
| H         | 0.00         | 0.11 | 0.00       | 0.11  | 0.80                    | 0.693           | 0.707 |

file name: 323145CG03A017\_V001\_Calculations.dwg, layout name: CG03A, plot by: A.Khurshid, plot time: 26/12/2023 12:12:12, user: A.Khurshid, path: C:\Users\A.Khurshid\AppData\Local\Temp\323145CG03A017\_V001\_Calculations.dwg

|             |                   |
|-------------|-------------------|
| Scale:      |                   |
| Issue No:   |                   |
| Issue Date: |                   |
| Rev         |                   |
| A           | ISSUED TO COUNCIL |
| Rev         | Amendments        |
| MR          | 16/05/25          |
| Approved    | Date              |



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|            |            |         |            |
|------------|------------|---------|------------|
| Designed   | A.KHURSHID | Checked | B.MUGRIDGE |
| Authorised | M.READMAN  | Date    | 16/05/2025 |

**BLUESTONE TARNEIT STAGE 9**

**CALCULATIONS - SHEET 2**  
WYNDHAM CITY COUNCIL  
SATTERLEY PROPERTY GROUP

Doc No  
**323145-000CG03BA**

Rev

