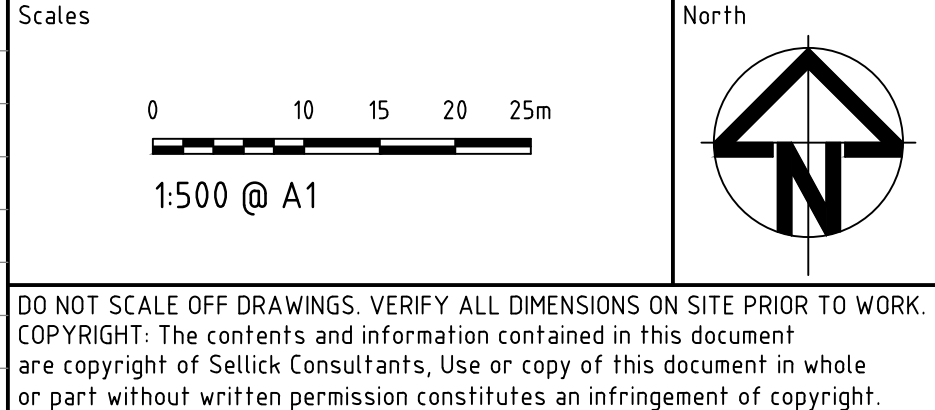




|                   |                      |                    |                      |
|-------------------|----------------------|--------------------|----------------------|
| Status            | NOT FOR CONSTRUCTION |                    |                      |
| Original Size     | A1                   | Drawn By<br>DM     | Drafting Check<br>LT |
| Date Plotted      | 7-Jul-23             | Designed By<br>LT  | Design Check<br>JM   |
| Coordinate System | STROMLO GRID         | Approved<br>BC     | Approved Date        |
| Height Datum      | AHD                  | Approved Signature |                      |

|                           |      |            |                |         |     |  |
|---------------------------|------|------------|----------------|---------|-----|--|
| Project Name and Location |      |            |                |         |     |  |
| TOWNHOUSE DEVELOPMENT     |      |            |                |         |     |  |
| LOT 601, GOOGONG, NSW     |      |            |                |         |     |  |
| Drawing Title             |      |            |                |         |     |  |
| GENERAL ARRANGEMENT       |      |            |                |         |     |  |
| PLAN SHEET 1              |      |            |                |         |     |  |
| Project Number            | Type | Discipline | Sub-Discipline | Drg No. | Rev |  |
| 220879                    | DRG  | CIV        | AL             | 0101    | C   |  |

|                                                                                                                                                                                                                                                                                                                                         |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <p><b>Scales</b></p>  <p>0      10      15      20      25m</p> <p>1:500 @ A1</p>                                                                                                                                                                   | <p><b>North</b></p>  |
| <p><b>DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK.</b><br/> <b>COPYRIGHT:</b> The contents and information contained in this document<br/> are copyright of Sellick Consultants, Use or copy of this document in whole<br/> or part without written permission constitutes an infringement of copyright.</p> |                                                                                                           |



canberra | sydney

ABN 82 634 296 629

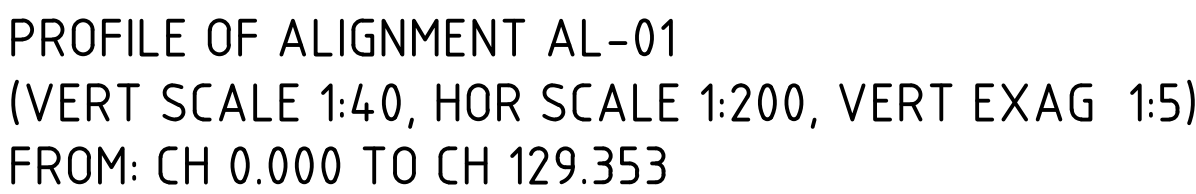
Client Logo

**dna**  
**ARCHITECTS**

|                   |                      |                    |                      |
|-------------------|----------------------|--------------------|----------------------|
| Status            | NOT FOR CONSTRUCTION |                    |                      |
| Original Size     | A1                   | Drawn By<br>DM     | Drafting Check<br>LT |
| Date Plotted      | 7-Jul-23             | Designed By<br>LT  | Design Check<br>JM   |
| Coordinate System | STROMLO GRID         | Approved<br>BC     | Approved Date        |
| Height Datum      | AHD                  | Approved Signature |                      |

|                           |      |            |                |        |     |  |
|---------------------------|------|------------|----------------|--------|-----|--|
| Project Name and Location |      |            |                |        |     |  |
| TOWNHOUSE DEVELOPMENT     |      |            |                |        |     |  |
| LOT 601, GOONGONG, NSW    |      |            |                |        |     |  |
| Drawing Title             |      |            |                |        |     |  |
| ALIGNMENT                 |      |            |                |        |     |  |
| CONTROL AND GRADING PLAN  |      |            |                |        |     |  |
| Project Number            | Type | Discipline | Sub-Discipline | Drg No | Rev |  |
| 220879                    | DRG  | CIV        | AL             | 0121   | C   |  |

1. FOR COVER SHEET, DRAWING INDEX AND LOCALITY PLAN REFER DRAWING GN-0001
2. FOR GENERAL NOTES AND LEGEND REFER DRAWING GN-0002
3. FOR ALIGNMENT CONTROL AND GRADING PLAN REFER DRAWING AL-0121
4. FOR PAVEMENT PLAN REFER DRAWING PV-0301
5. FOR STORMWATER AND SUBSOIL DRAINAGE PLAN REFER DRAWING DR-0401
6. FOR UTILITIES PLAN REFER DRAWING UT-0501

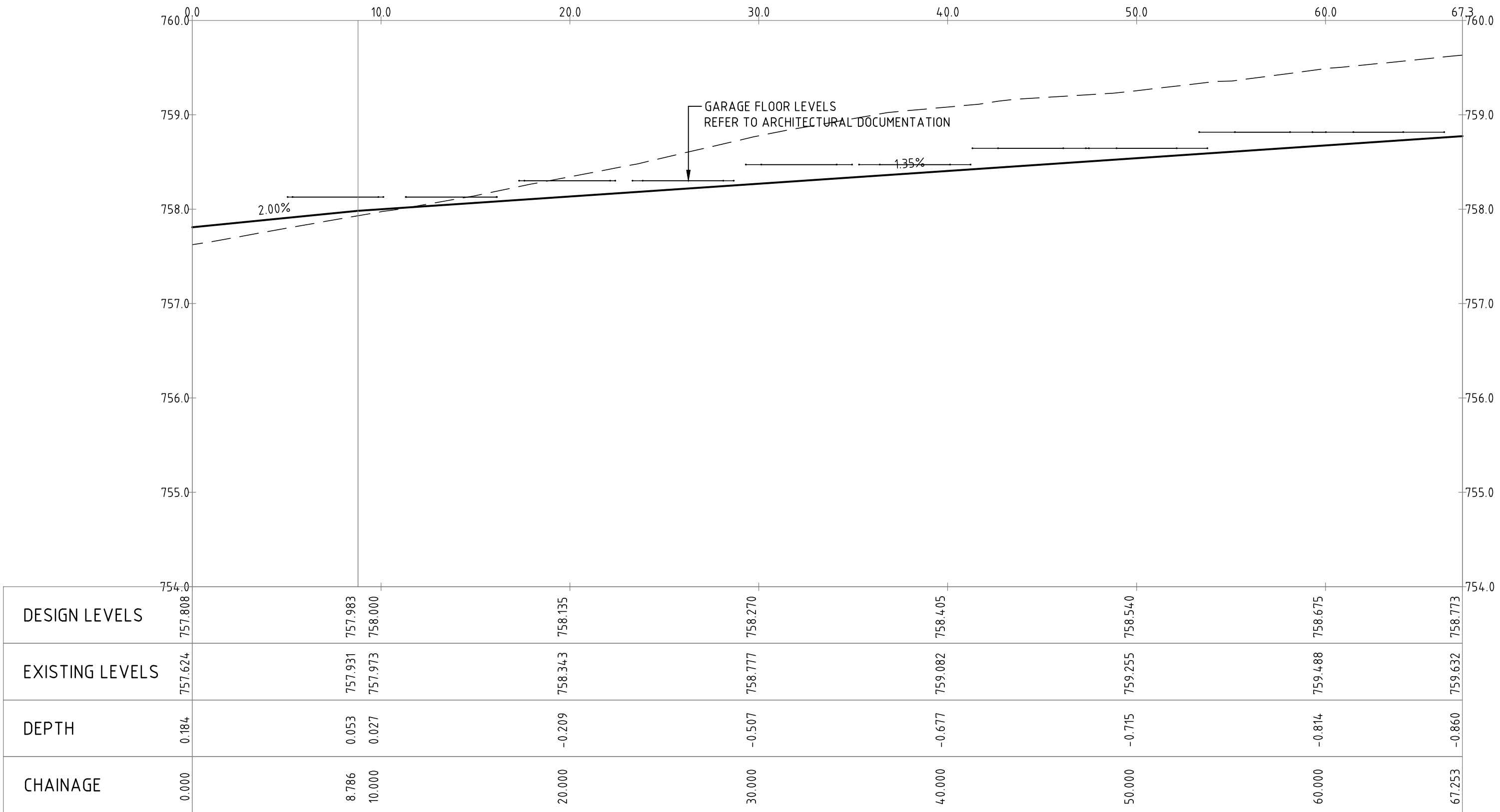


canberra | sydney

ABN 82 634 296 629

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|----------------------|--|--------------|--|---------------------------|--|----------------|--|------------------|--|-----------------------------|--|--|
| Status               |  |              |  | Project Name and Location |  |                |  |                  |  |                             |  |  |
| NOT FOR CONSTRUCTION |  |              |  | TOWNHOUSE DEVELOPMENT     |  |                |  |                  |  |                             |  |  |
| Original Size        |  |              |  | LOT 601, GOOGONG, NSW     |  |                |  |                  |  |                             |  |  |
| A1                   |  | Drawn By     |  | DM                        |  | Drafting Check |  | LT               |  |                             |  |  |
| Date Plotted         |  | 7-Jul-23     |  | Designed By               |  | LT             |  | Design Check     |  | JM                          |  |  |
| Coordinate System    |  | STROMLO GRID |  | Approved                  |  | BC             |  | Approved Date    |  | ALIGNMENT ROAD LONGITUDINAL |  |  |
| Height Datum         |  | AHD          |  | Approved Signature        |  |                |  | Project Number   |  | 220879                      |  |  |
|                      |  |              |  |                           |  |                |  | Type             |  | DRG                         |  |  |
|                      |  |              |  |                           |  |                |  | Discipline       |  | CIV                         |  |  |
|                      |  |              |  |                           |  |                |  | Sub-Discipline   |  | AL                          |  |  |
|                      |  |              |  |                           |  |                |  | Drg No.          |  | 0141                        |  |  |
|                      |  |              |  |                           |  |                |  | Rev              |  | C                           |  |  |
|                      |  |              |  |                           |  |                |  | SECTIONS SHEET 1 |  |                             |  |  |

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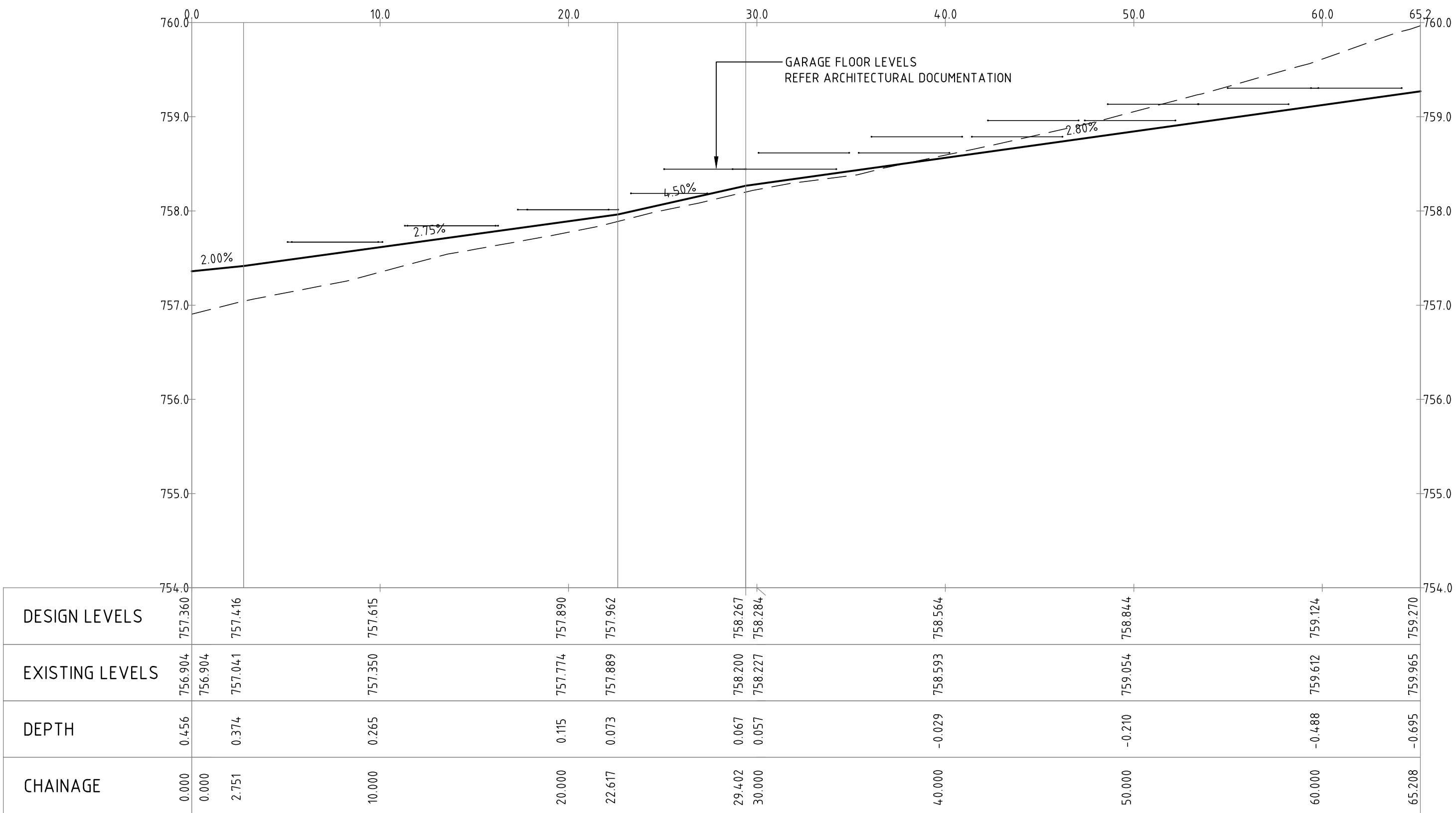


PROFILE OF ALIGNMENT AL-02  
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)  
FROM: CH 0.000 TO CH 67.253

| AL-02 SETOUT |            |             |        |        |              |
|--------------|------------|-------------|--------|--------|--------------|
| CHAINAGE     | EASTING    | NORTHING    | LENGTH | RADIUS | BEARING      |
| 0.000        | 701764.050 | 6077888.579 | 67.253 |        | 264° 59' 54" |
| 67.253       | 701697.053 | 6077882.716 |        |        |              |

|  |  |  |  |                                                                       |                  |                                                                                                                                               |                                                                                             |
|--|--|--|--|-----------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|  |  |  |  | <div>Scales</div> <div><div>057.510m</div><div>1:200 @ A1</div></div> | <div>North</div> | <div><div><div><div></div><div>sellick</div><div>consultants</div></div><div>canberra   sydney</div><div>ABN 82 634 296 629</div></div></div> | <div>Client Logo</div> <div><div><div></div><div>dna</div><div>ARCHITECTS</div></div></div> |
|--|--|--|--|-----------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|

File Name: P:\2022\220879\_L601-Googong\04\_CAD\4.2\_Drawings\CIV\220879-drg-civ-al-0143.dwg

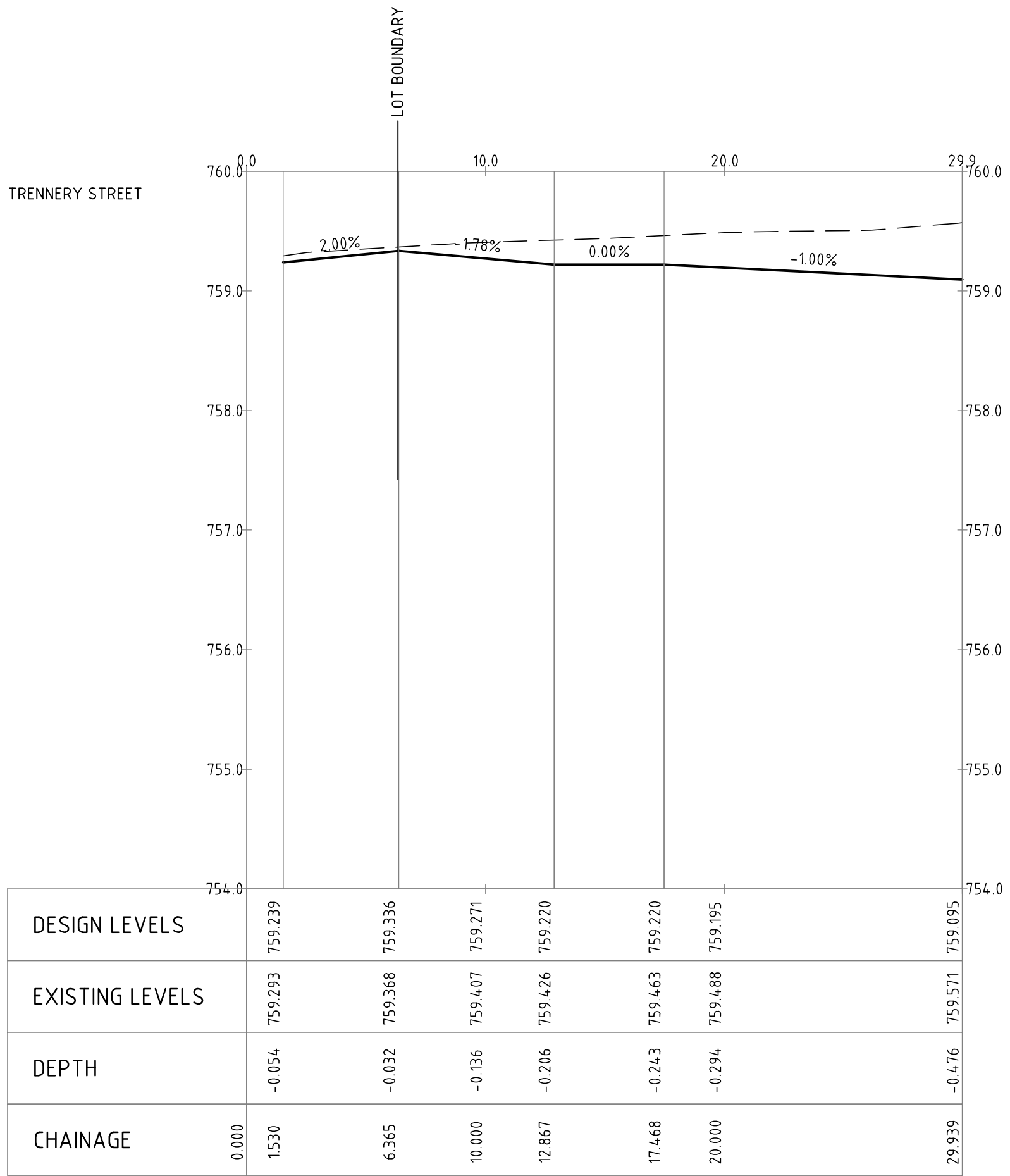


PROFILE OF ALIGNMENT AL-03  
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)  
FROM: CH 0.000 TO CH 65.208

| AL-03 SETOUT     |                          |                            |        |        |              |
|------------------|--------------------------|----------------------------|--------|--------|--------------|
| CHAINAGE         | EASTING                  | NORTHING                   | LENGTH | RADIUS | BEARING      |
| 0.000<br>23.510  | 701758.087<br>701734.666 | 6077956.741<br>6077954.692 | 23.510 |        | 265° 00' 00" |
| 23.510<br>29.398 | 701734.666<br>701728.800 | 6077954.692<br>6077955.199 | 5.888  |        | 274° 56' 22" |
| 29.398<br>65.208 | 701728.800<br>701693.126 | 6077955.199<br>6077952.078 | 35.810 |        | 265° 00' 00" |

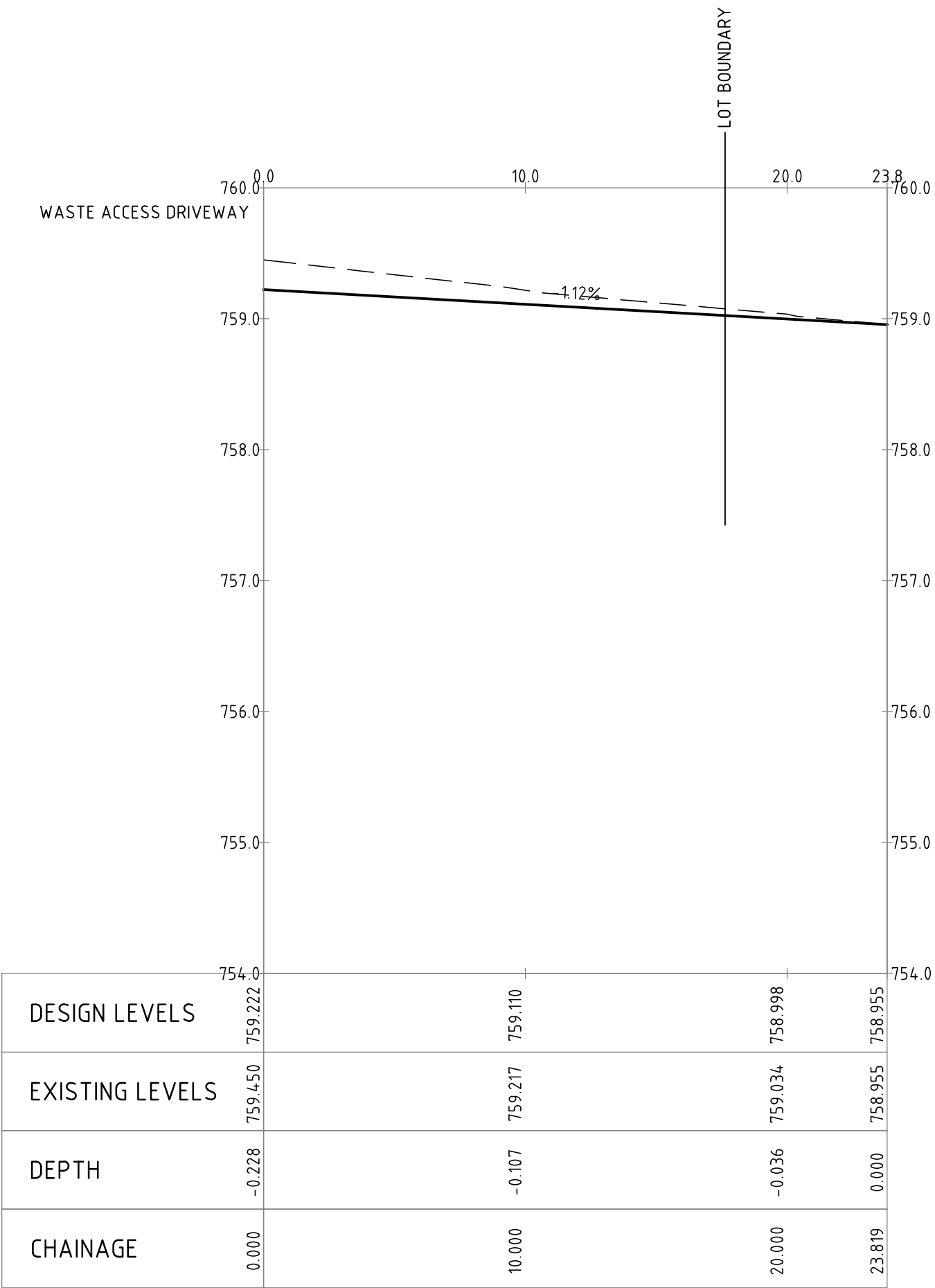
|     |                          |            |          |                                                                                                                        |                  |                                                                                                                                                                                                                                                             |                                                                                                                  |                                                                                                                                                                                                                        |  |  |                                                                                                         |  |  |  |  |  |
|-----|--------------------------|------------|----------|------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------------------------|--|--|--|--|--|
|     |                          |            |          | <div>Scales</div> <div><div>057.510m</div><div>1:200 @ A1</div></div>                                                  | <div>North</div> | <div><div><div><div><div></div><div>sellick</div><div>consultants</div></div><div><div>canberra</div><div> </div><div>sydney</div></div><div>ABN 82 634 296 629</div></div></div><div><div><div></div><div>dna</div><div>ARCHITECTS</div></div></div></div> | <div>Status</div> <div>NOT FOR CONSTRUCTION</div>                                                                |                                                                                                                                                                                                                        |  |  | <div>Project Name and Location</div> <div>TOWNHOUSE DEVELOPMENT</div> <div>LOT 601, GOOGGONG, NSW</div> |  |  |  |  |  |
| C   | FOR DEVELOPMENT APPROVAL | 06.07.2023 | DM       |                                                                                                                        |                  |                                                                                                                                                                                                                                                             | <div>Original Size</div> <div>A1</div> <div>Drawn By</div> <div>DM</div> <div>Drafting Check</div> <div>LT</div> |                                                                                                                                                                                                                        |  |  | <div>Drawing Title</div> <div>ALIGNMENT ROAD LONGITUDINAL</div> <div>SECTIONS SHEET 3</div>             |  |  |  |  |  |
| B   | FOR DEVELOPMENT APPROVAL | 18.10.2022 | DM       | <div>Date Plotted</div> <div>7-Jul-23</div> <div>Designed By</div> <div>LT</div> <div>Design Check</div> <div>JM</div> |                  |                                                                                                                                                                                                                                                             |                                                                                                                  | <div>Project Number</div> <div>220879</div> <div>Type</div> <div>DRG</div> <div>Discipline</div> <div>CIV</div> <div>Sub-Discipline</div> <div>AL</div> <div>Drg No.</div> <div>0143</div> <div>Rev</div> <div>C</div> |  |  |                                                                                                         |  |  |  |  |  |
| A   | FOR REVIEW               | 17.10.2022 | DM       | <div>Coordinate System</div> <div>STROMLO GRID</div> <div>Approved</div> <div>BC</div> <div>Approved Date</div>        |                  |                                                                                                                                                                                                                                                             |                                                                                                                  |                                                                                                                                                                                                                        |  |  |                                                                                                         |  |  |  |  |  |
| Rev | Description              | Date       | Drawn By | <div>Height Datum</div> <div>AHD</div> <div>Approved Signature</div>                                                   |                  |                                                                                                                                                                                                                                                             |                                                                                                                  |                                                                                                                                                                                                                        |  |  |                                                                                                         |  |  |  |  |  |

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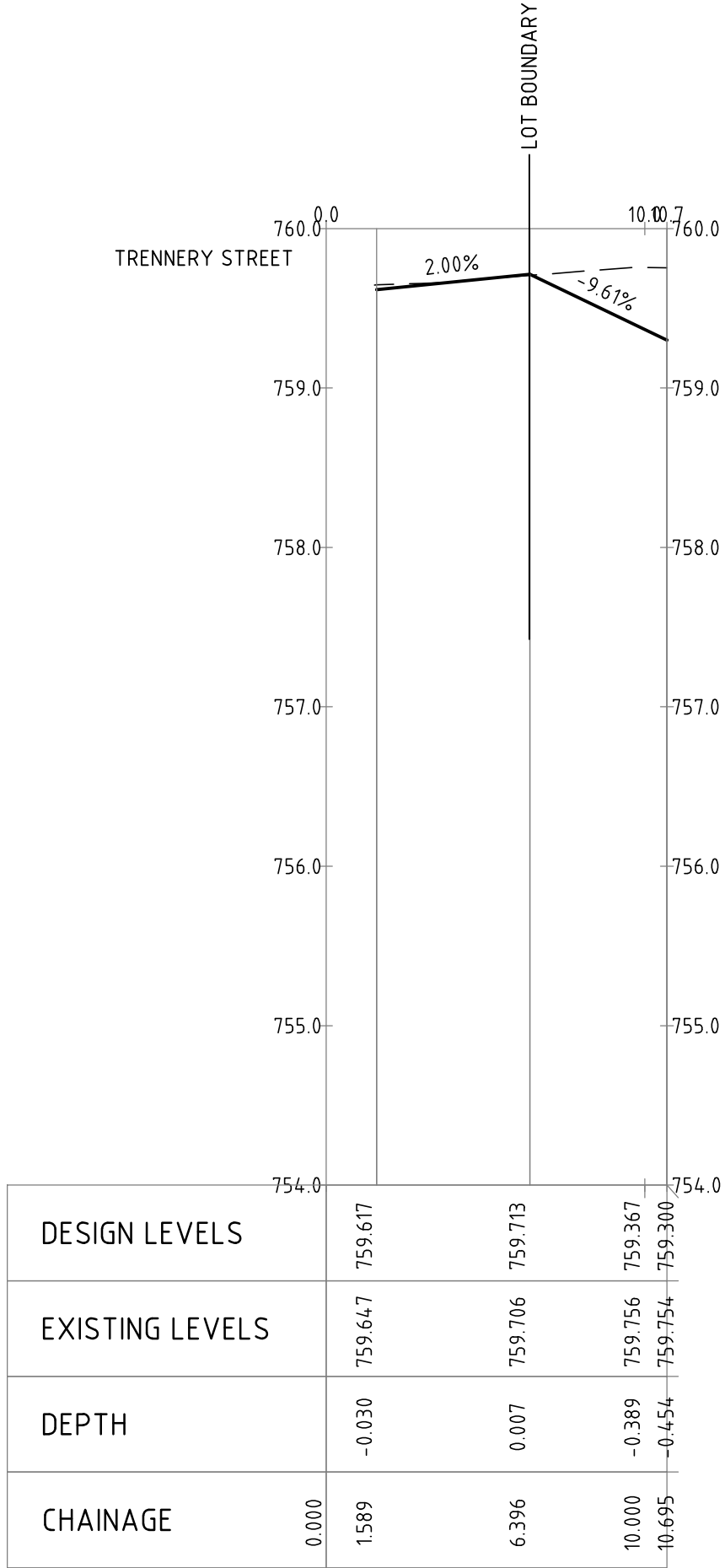
PROFILE OF ALIGNMENT AL-04  
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)  
FROM: CH 0.000 TO CH 29.939

| AL-04 SETOUT |            |             |        |        |              |
|--------------|------------|-------------|--------|--------|--------------|
| CHAINAGE     | EASTING    | NORTHING    | LENGTH | RADIUS | BEARING      |
| 0.000        | 701697.643 | 6077830.512 |        |        |              |
| 29.939       | 701695.033 | 6077860.336 | 29.939 |        | 355° 00' 00" |



PROFILE OF ALIGNMENT AL-05  
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)  
FROM: CH 0.000 TO CH 23.819

| AL-05 SETOUT |            |             |        |        |              |
|--------------|------------|-------------|--------|--------|--------------|
| CHAINAGE     | EASTING    | NORTHING    | LENGTH | RADIUS | BEARING      |
| 0.000        | 701696.238 | 6077846.565 |        |        |              |
| 23.819       | 701719.966 | 6077848.641 | 23.819 |        | 085° 00' 00" |



PROFILE OF ALIGNMENT AL-06  
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)  
FROM: CH 0.000 TO CH 10.695

| AL-06 SETOUT |            |             |        |        |              |
|--------------|------------|-------------|--------|--------|--------------|
| CHAINAGE     | EASTING    | NORTHING    | LENGTH | RADIUS | BEARING      |
| 0.000        | 701678.868 | 6077828.839 |        |        |              |
| 10.695       | 701677.914 | 6077839.492 | 10.695 |        | 354° 52' 50" |

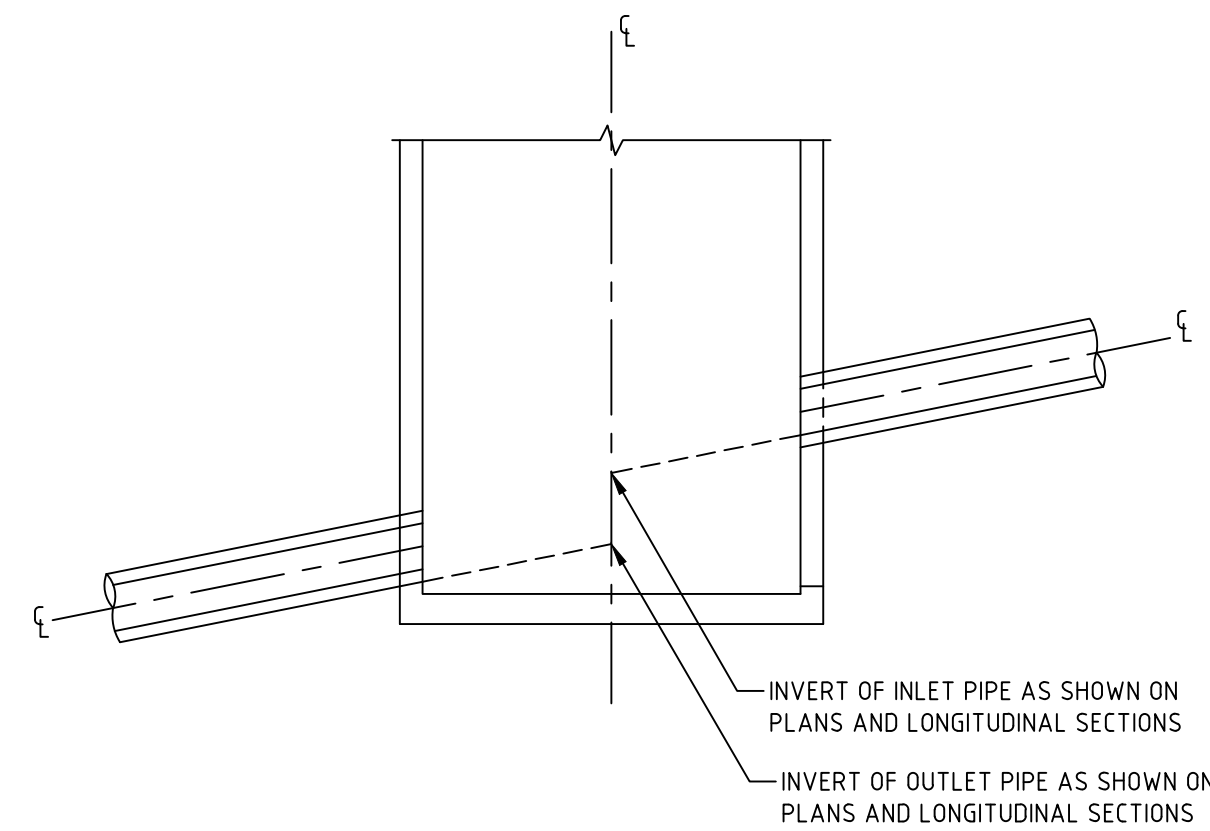
|     |                          |            |          |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                   |                                   |                    |                      |                                                                              |             |                   |                      |                 |          |
|-----|--------------------------|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------|----------------------|------------------------------------------------------------------------------|-------------|-------------------|----------------------|-----------------|----------|
|     |                          |            |          | <div>05m</div>                                                                                                                                                                                                                                                                                         | North | <div><div><div><div></div><div>sellick</div><div>consultants</div></div><div>canberra   sydney</div><div>ABN 82 634 296 629</div></div><div><div><div></div><div>dna</div><div>ARCHITECTS</div></div></div></div> | NOT FOR CONSTRUCTION              |                    |                      | Project Name and Location<br>TOWNHOUSE DEVELOPMENT<br>LOT 601, GOOGGONG, NSW |             |                   |                      |                 |          |
|     |                          |            |          |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                   | Original Size<br>A1               | Drawn By<br>DM     | Drafting Check<br>LT | Drawing Title<br>ALIGNMENT ROAD LONGITUDINAL<br>SECTIONS SHEET 4             |             |                   |                      |                 |          |
|     |                          |            |          |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                   | Date Plotted<br>7-Jul-23          | Designed By<br>LT  | Design Check<br>JM   |                                                                              |             |                   |                      |                 |          |
|     |                          |            |          |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                   | Coordinate System<br>STROMLO GRID | Approved<br>BC     | Approved Date        |                                                                              |             |                   |                      |                 |          |
|     |                          |            |          |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                   | Height Datum<br>AHD               | Approved Signature |                      | Project Number<br>220879                                                     | Type<br>DRG | Discipline<br>CIV | Sub-Discipline<br>AL | Drg No.<br>0144 | Rev<br>C |
| C   | FOR DEVELOPMENT APPROVAL | 06.07.2023 | DM       |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                   |                                   |                    |                      |                                                                              |             |                   |                      |                 |          |
| B   | FOR DEVELOPMENT APPROVAL | 18.10.2022 | DM       |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                   |                                   |                    |                      |                                                                              |             |                   |                      |                 |          |
| A   | FOR REVIEW               | 17.10.2022 | DM       |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                   |                                   |                    |                      |                                                                              |             |                   |                      |                 |          |
| Rev | Description              | Date       | Drawn By | DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK.<br>COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright. |       |                                                                                                                                                                                                                   |                                   |                    |                      |                                                                              |             |                   |                      |                 |          |

1. ALL STORMWATER DRAINAGE WORKS TO BE COMPLETED IN ACCORDANCE WITH ACT GOVERNMENT STANDARD DRAWINGS AND SPECIFICATION FOR URBAN INFRASTRUCTURE SECTION 3.
2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO ANY CIVIL WORKS COMMENCING.
3. COVER LEVELS OF STORMWATER STRUCTURES ARE PROVISIONAL ONLY AND SHALL BE ADJUSTED TO SUIT THE FINISHED SURFACE LEVELS IN ACCORDANCE WITH DRAWINGS AND CONSTRUCTED KERB PROFILES.
4. WHERE PROPOSED STORMWATER PIPES CROSS EXISTING UTILITIES TO BE RETAINED, THE CONTRACTOR SHALL LOCATE, POTHOLE SURVEY (LINE AND LEVEL) AND ADVISE THE SUPERINTENDENT OF ANY POTENTIAL CLASHES AT LEAST 7 DAYS PRIOR TO UNDERTAKING THE WORKS.
5. ALL CURVED ALIGNMENTS TO BE ACHIEVED THROUGH PIPE DEFLECTIONS AT PIPE JOINTS IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
6. BACKFILL TRENCHES IN ACCORDANCE WITH CONTRACT SPECIFICATIONS .
7. MINIMUM GRADES ON STORMWATER PIPES SHALL BE 1.0% UNLESS NOTED OTHERWISE.
8. ALL PIPE LENGTHS, PIPE INVERTS AND GRADES ARE MEASURED FROM THE CENTRE OF STORMWATER STRUCTURES OR FACE OF HEADWALLS. AS DETAILLED OR UNLESS NOTED OTHERWISE.
9. ALL PIPES EXCEEDING 7.0%, SCOUR STOPS SHALL BE CONSTRUCTED AT 5.0m MAXIMUM SPACING.
10. PIPES ARE DESIGNED FOR OPERATIONAL LOADS ONLY. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PROTECT PIPES DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL UNDERTAKE ANY TEMPORARY DIVERSION WORKS TO ENSURE THE EXISTING STORMWATER DRAINAGE SYSTEM IS ABLE TO CHANNEL STORMWATER FLOWS DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL PROVIDE TEMPORARY DIVERSION MEASURES TO PROTECT WORKS IN PROGRESS UNTIL SUCH TIME AS THE WORKS ARE DEEMED FINISHED BY THE SUPERINTENDENT. ANY DAMAGE TO WORKS CAUSED BY STORMWATER FLOWS OR FLOODING IS AT RISK TO THE CONTRACTOR AND SHALL BE RECTIFIED PRIOR TO HANDOVER.
13. THE CONTRACTOR IS TO PROVIDE ALL QUALITY RECORDS AS REQUIRED UNDER THE SPECIFICATION FOR STORMWATER PRIOR TO PLACING THE FINAL ROAD PAVEMENT.
14. 'WORKS AS EXECUTED' DOCUMENTATION IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE AGREED. WORKS AS EXECUTED RECORDS ARE TO BE PROVIDED IN ACCORDANCE WITH ACT GOVERNMENT REF DOC 8.

| PIPE INFORMATION BOX |                                                   |
|----------------------|---------------------------------------------------|
| 612.400              | UPSTREAM INVERT LEVEL                             |
| 300mm                | PIPE INTERNAL DIAMETER                            |
| RCP CL2              | PIPE MATERIAL RCP,FCP, HDPE OR uPVC/ PIPE CLASS 2 |
| 40.2m                | PIPE LENGTH                                       |
| 1.2%                 | PIPE GRADE                                        |
| 611.930              | DOWNSSTREAM INVERT LEVEL                          |

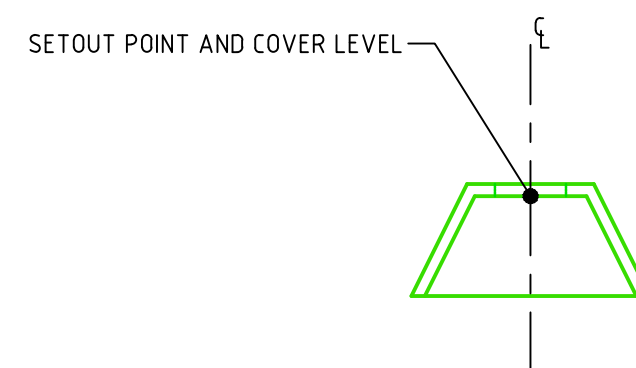
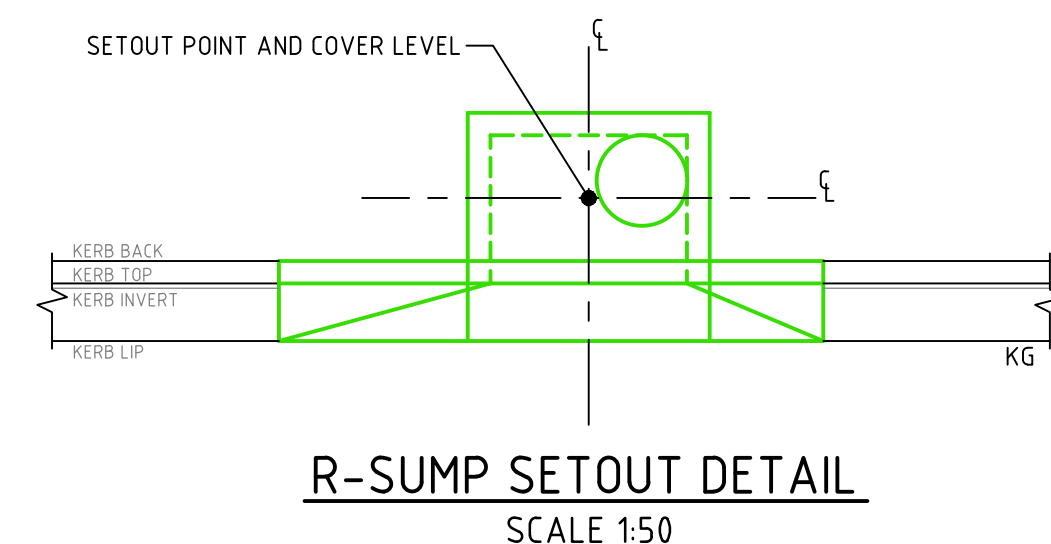
OR

SW1-6 STORMWATER LINE SW1, STORMWATER STRUCTURE '6'

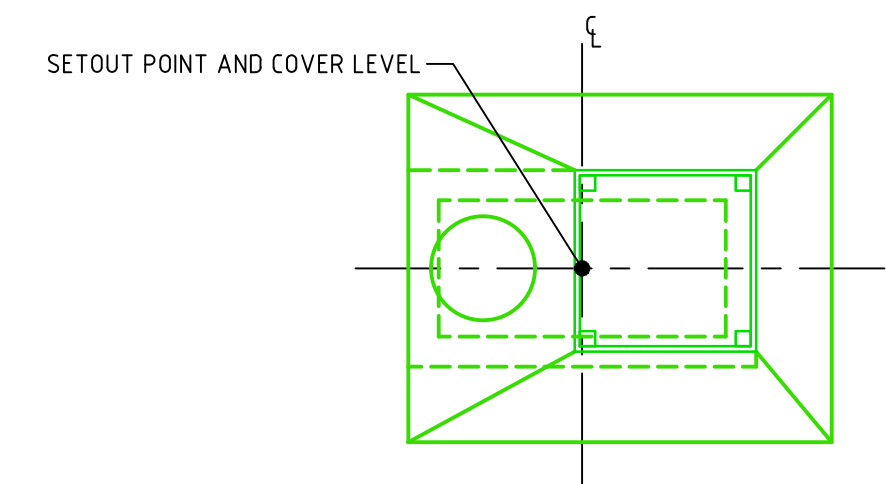


## SCALE 1:50

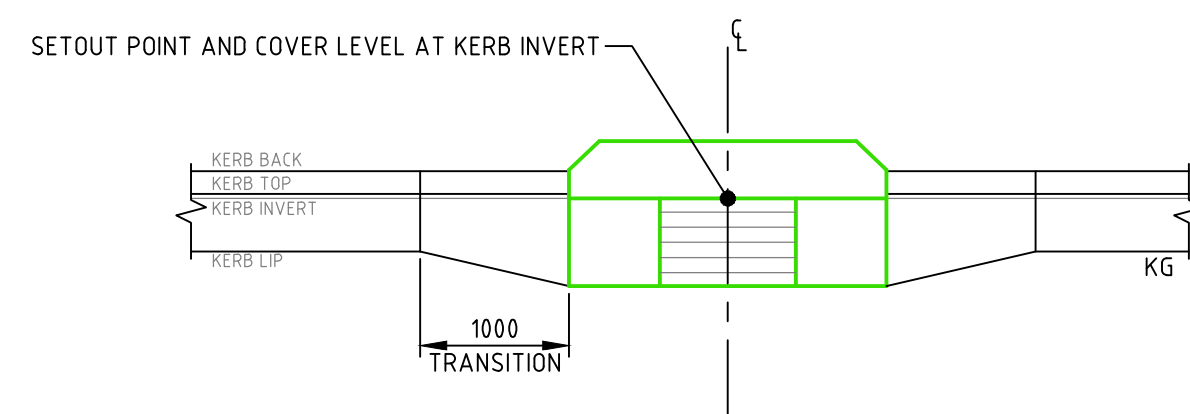
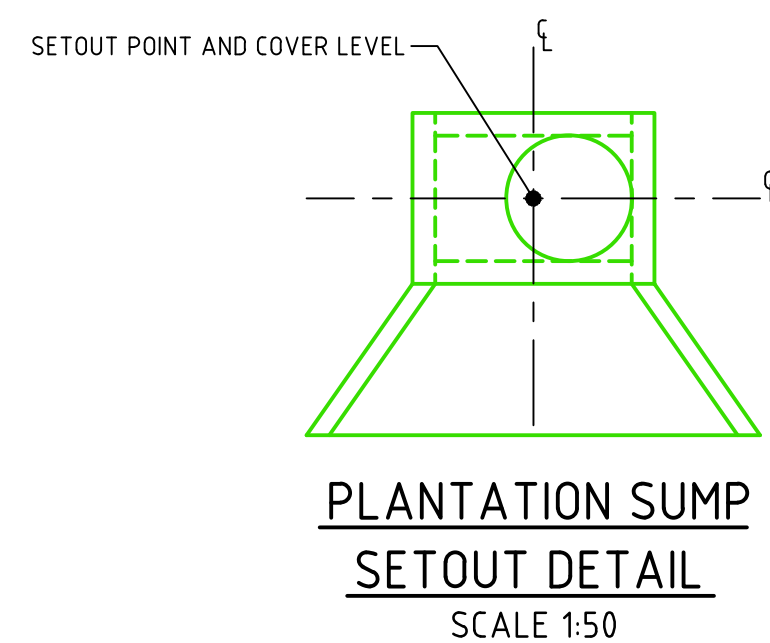
Diagram illustrating the Manhole Setout. It shows a central point (Manhole) surrounded by concentric circles. The circles represent the Manhole Cover (outermost), the Manhole Chamber (middle), and the Manhole Inlet (innermost). The diagram is labeled with 'SETOUT POINT AND COVER LEVEL' and 'SCALE 1:50'.



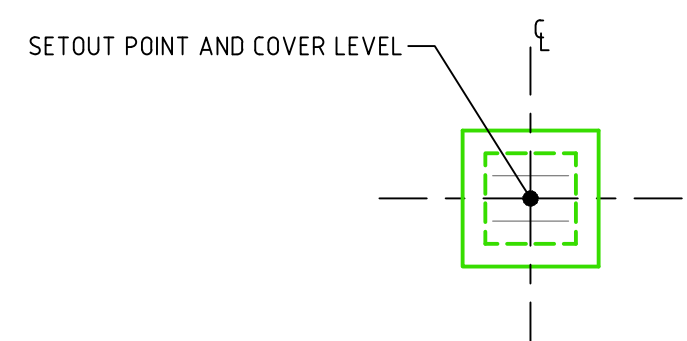
SCALE 1:50



SCALE 1:50



SCALE 1:50



SCALE 1:50

**sellick**  
**consultants**  
*Est. 1965*  
perth | sydney  
N 82 634 296 629

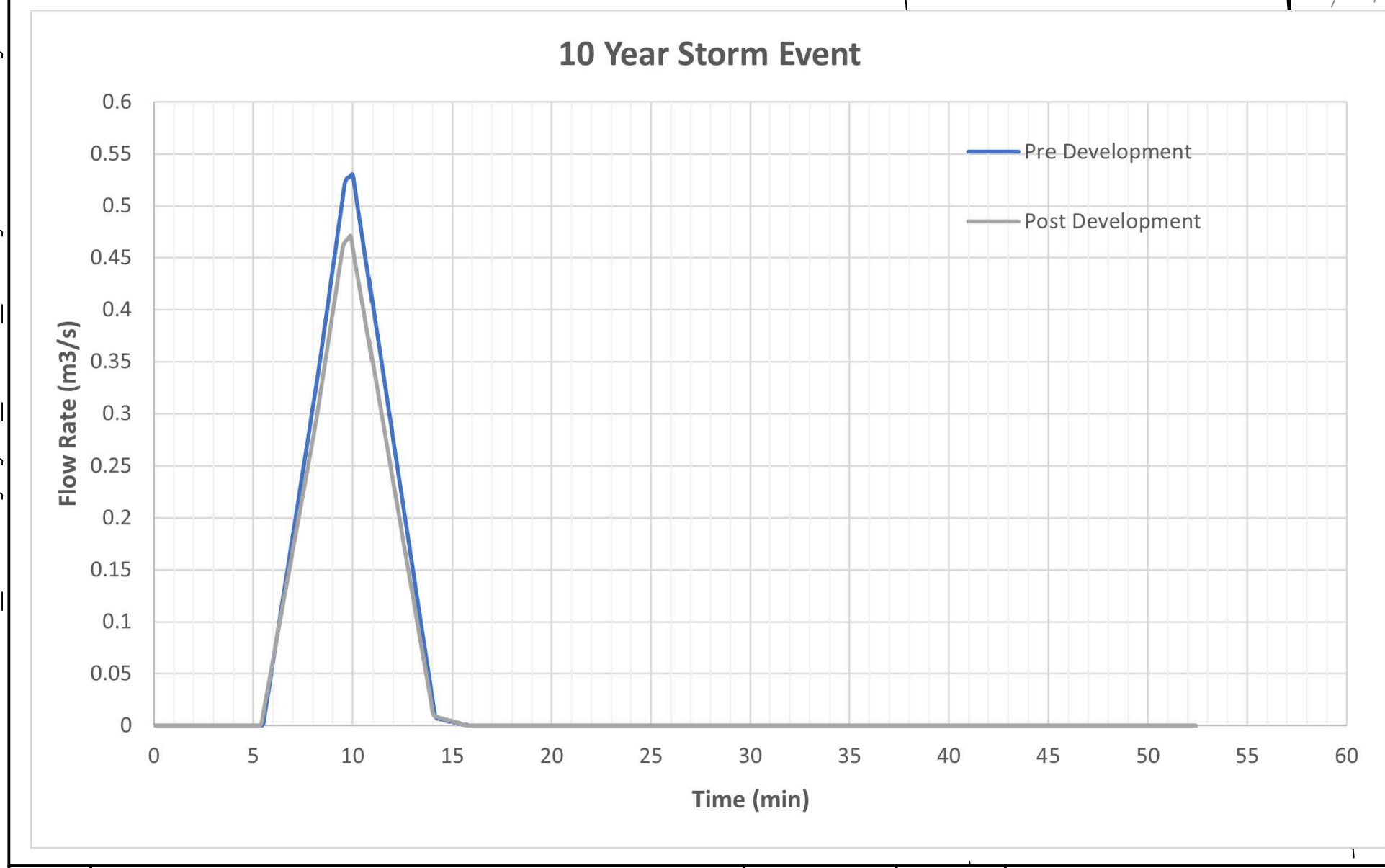
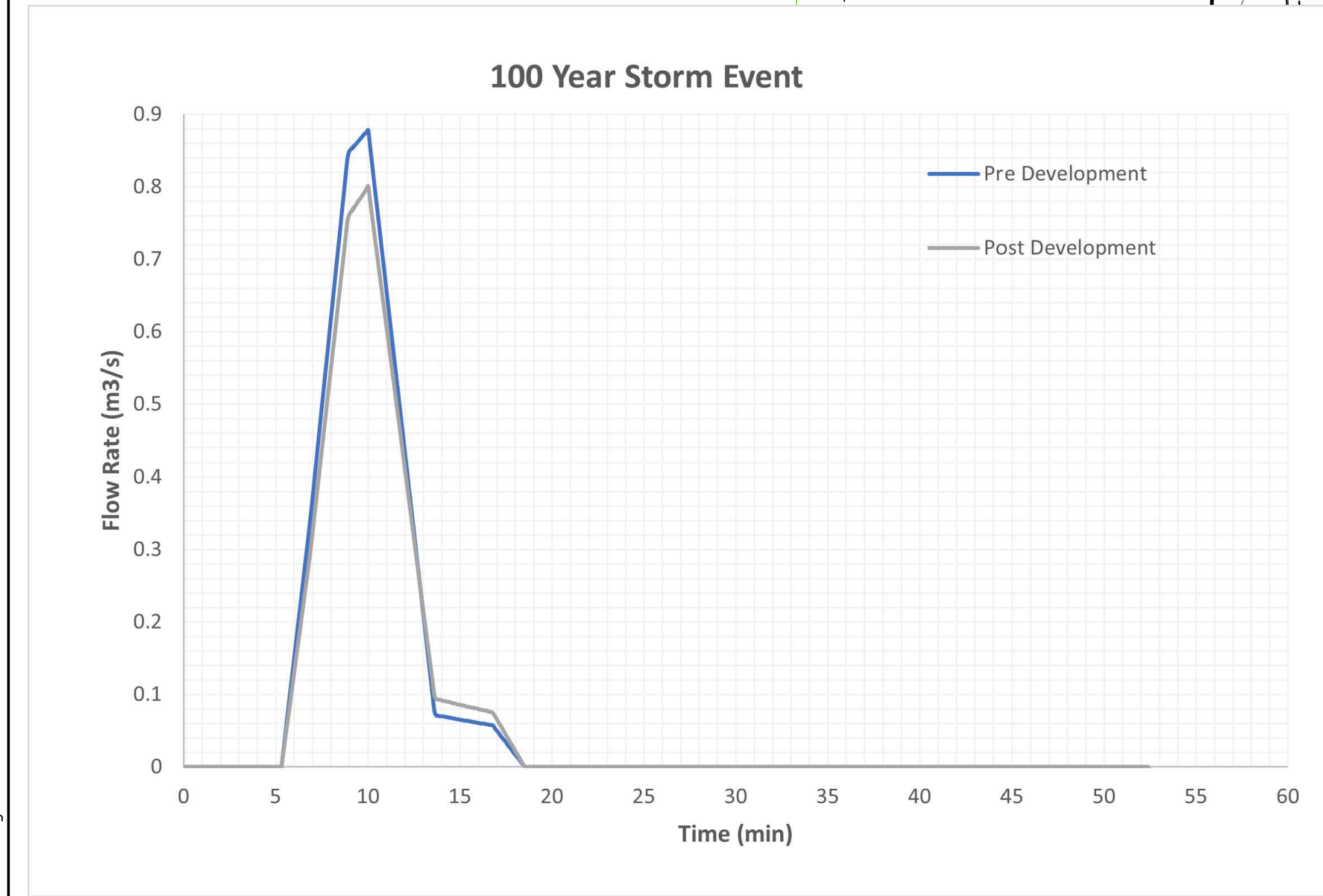
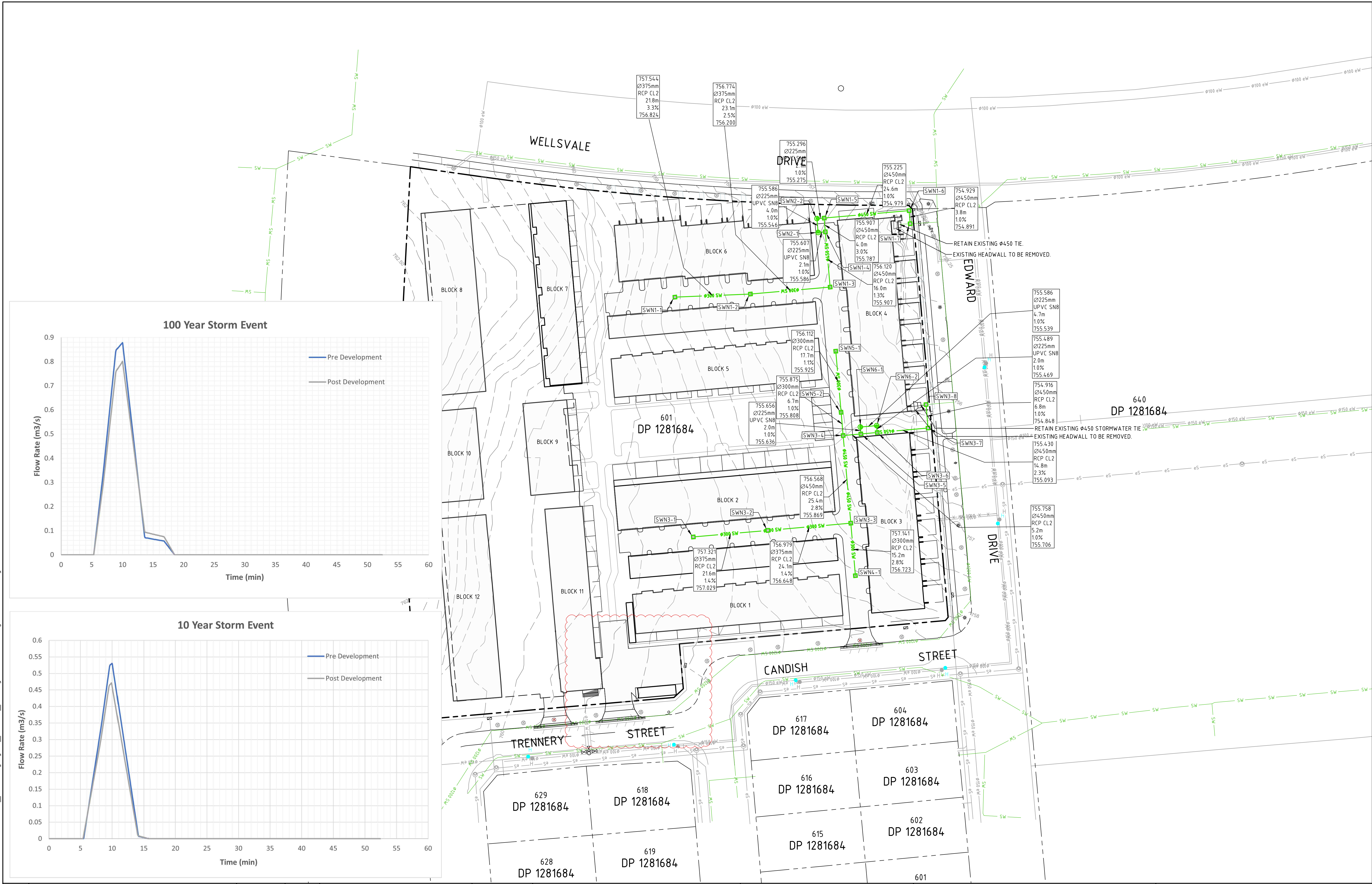


|                      |              |                    |                      |
|----------------------|--------------|--------------------|----------------------|
| Status               |              |                    |                      |
| NOT FOR CONSTRUCTION |              |                    |                      |
| Original Size        | A1           | Drawn By<br>DM     | Drafting Check<br>LT |
| Date Plotted         | 7-Jul-23     | Designed By<br>LT  | Design Check         |
| Coordinate System    | STROMLO GRID | Approved<br>BC     | Approved Date        |
| Height Datum         | AHD          | Approved Signature |                      |

**REFERENCE**  
FOR GENERAL NOTES AND LEGEND REFER DRAWING No. GN-0002

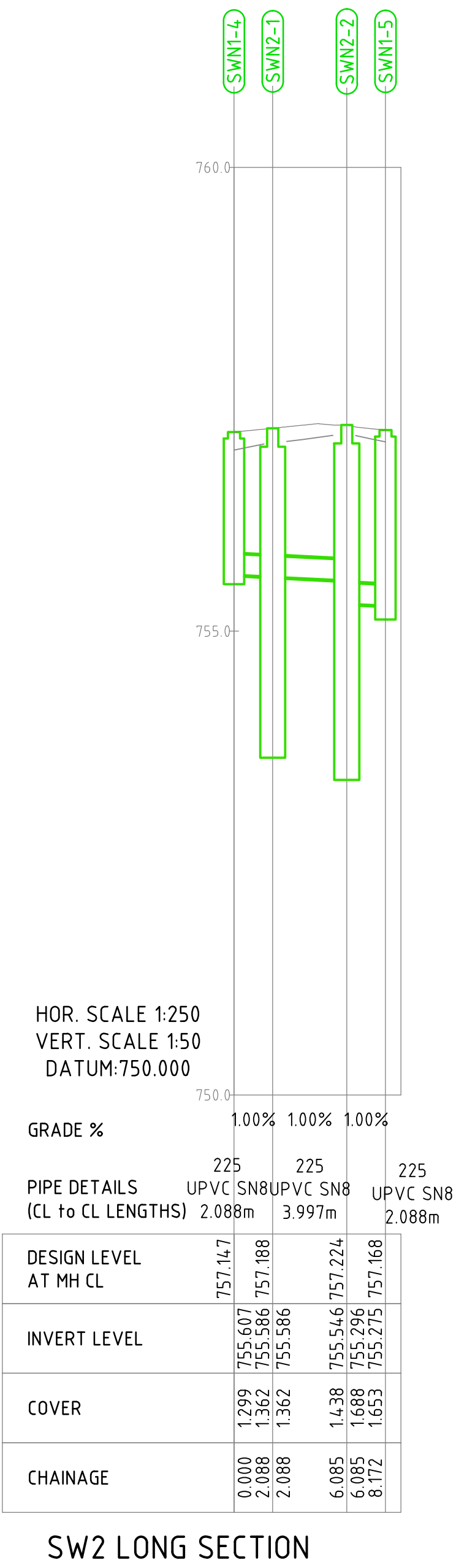
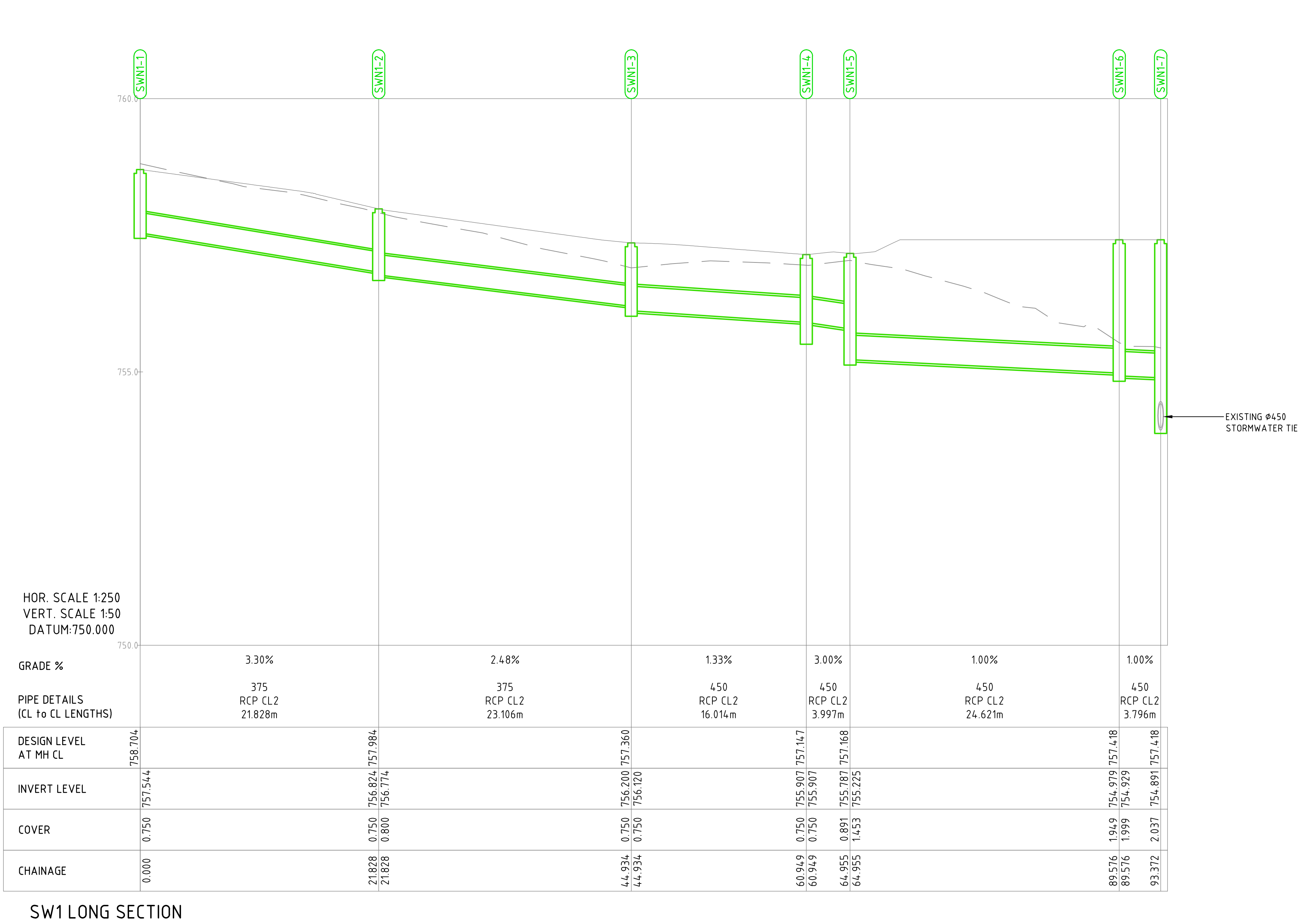
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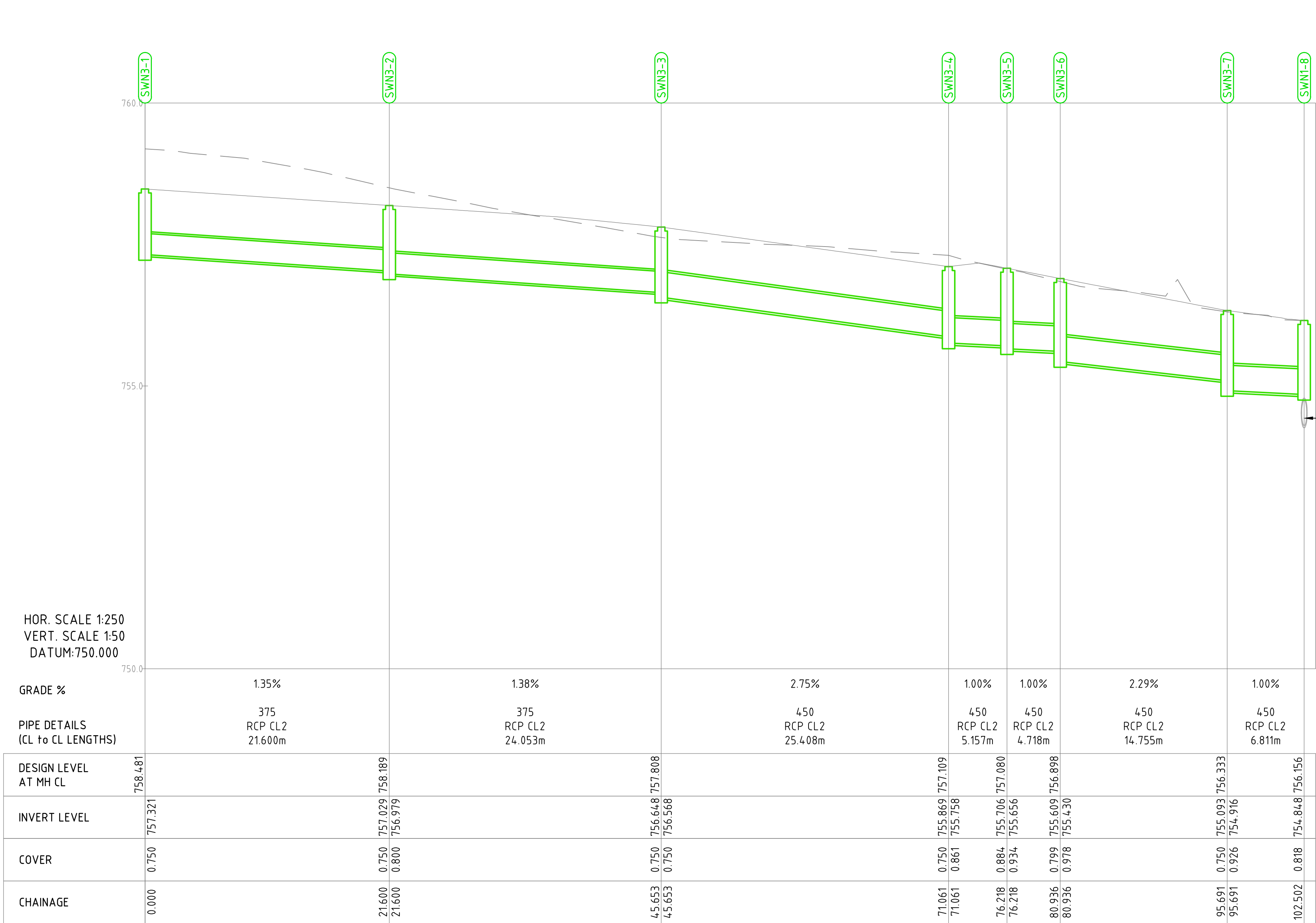
|     |                          |            |          |                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                              |  |                                                   |  |                                             |  |                                                                                                          |                                      |                                         |                                    |                             |  |
|-----|--------------------------|------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|---------------------------------------------|--|----------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------|------------------------------------|-----------------------------|--|
|     |                          |            |          | <div>Scales</div> <div><div><div>010152025m</div><div>1:500 @ A1</div></div></div> <div><div>North</div><div></div></div>                                                                                                                                                                                                 |  | <div>Client Logo</div> <div><div><div>canberra   sydney</div><div>ABN 82 634 296 629</div></div><div><div></div></div></div> |  | <div>Status</div> <div>NOT FOR CONSTRUCTION</div> |  |                                             |  | <div>Project Name and Location</div> <div>TOWNHOUSE DEVELOPMENT</div> <div>LOT 601, GOONGGONG, NSW</div> |                                      |                                         |                                    |                             |  |
| D   | FOR DEVELOPMENT APPROVAL | 06.07.2023 | DM       | <div>DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK.</div> <div>COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright.</div> |  | <div>Original Size</div> <div>A1</div>                                                                                       |  | <div>Drawn By</div> <div>DM</div>                 |  | <div>Drafting Check</div> <div>LT</div>     |  | <div>Drawing Title</div> <div>STORMWATER AND SUBSOIL DRAINAGE</div> <div>PLAN SHEET 1</div>              |                                      |                                         |                                    |                             |  |
| C   | FOR DEVELOPMENT APPROVAL | 18.10.2022 | DM       |                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                              |  |                                                   |  |                                             |  |                                                                                                          |                                      |                                         |                                    |                             |  |
| B   | FOR REVIEW               | 17.10.2022 | DM       |                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                              |  |                                                   |  |                                             |  |                                                                                                          |                                      |                                         |                                    |                             |  |
| A   | FOR DESIGN COORDINATION  | 30.09.2022 | DM       |                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                              |  |                                                   |  |                                             |  |                                                                                                          |                                      |                                         |                                    |                             |  |
| Rev | Description              | Date       | Drawn By |                                                                                                                                                                                                                                                                                                                           |  | <div>Height Datum</div> <div>AHD</div>                                                                                       |  | <div>Approved Signature</div>                     |  | <div>Project Number</div> <div>220879</div> |  | <div>Type</div> <div>DRG</div>                                                                           | <div>Discipline</div> <div>CIV</div> | <div>Sub-Discipline</div> <div>DR</div> | <div>Drg No.</div> <div>0401</div> | <div>Rev</div> <div>D</div> |  |

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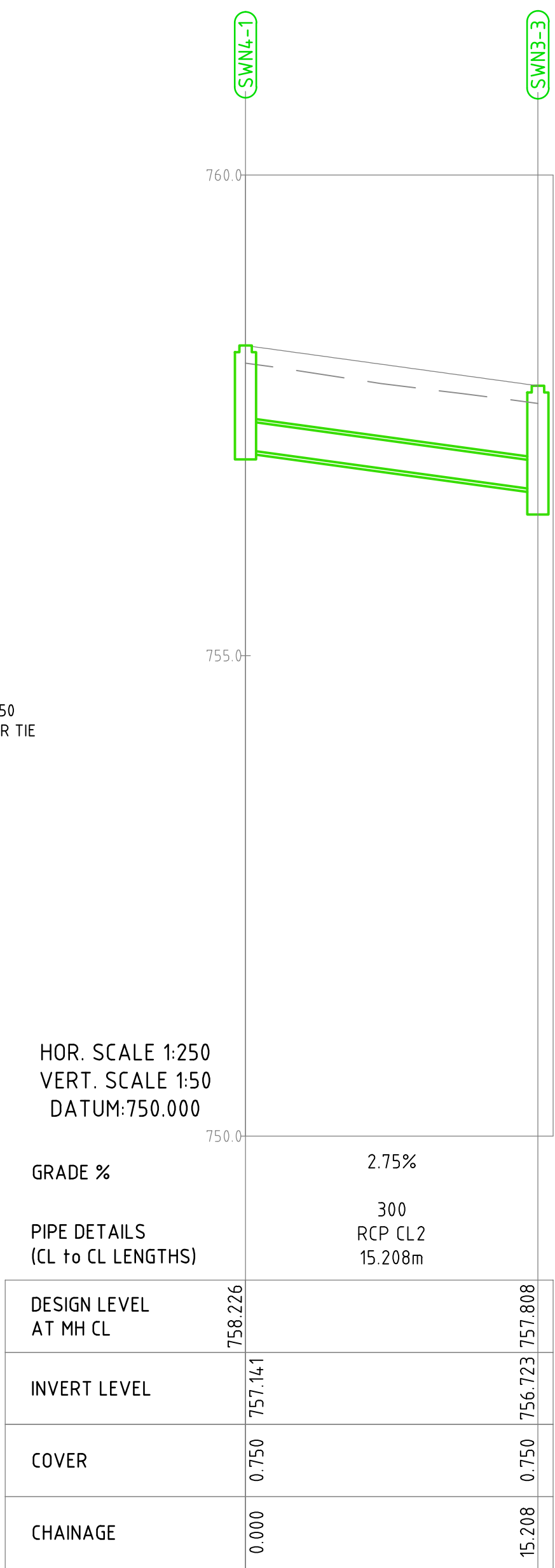


|     |                          |            |          |                                                                                                                                                              |                                                                                                                                                                                                   |                                                                                             |                                                                                                                                                                                                                                                                                                                    |                                   |                                         |                                                                              |                                                                                                         |                                      |                          |                                             |  |  |  |  |
|-----|--------------------------|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|---------------------------------------------|--|--|--|--|
|     |                          |            |          | <div>Scales</div> <div><div><div><div>0</div><div>5</div><div>7.5</div><div>10</div><div>12.5m</div></div><div>1:250 @ A1</div></div></div> <div>North</div> | <div><div><div><div><div></div><div></div></div><div><div>sellick</div><div>consultants</div></div><div><div>canberra</div><div>sydney</div></div></div><div>ABN 82 634 296 629</div></div></div> | <div>Client Logo</div> <div><div><div></div><div>dna</div><div>ARCHITECTS</div></div></div> | <div>Status</div> <div>NOT FOR CONSTRUCTION</div>                                                                                                                                                                                                                                                                  |                                   |                                         |                                                                              | <div>Project Name and Location</div> <div>TOWNHOUSE DEVELOPMENT</div> <div>LOT 601, GOOGGONG, NSW</div> |                                      |                          |                                             |  |  |  |  |
| C   | FOR DEVELOPMENT APPROVAL | 06.07.2023 | DM       |                                                                                                                                                              |                                                                                                                                                                                                   |                                                                                             | <div>Original Size</div> <div>A1</div>                                                                                                                                                                                                                                                                             | <div>Drawn By</div> <div>DM</div> | <div>Drafting Check</div> <div>LT</div> | <div>Drawing Title</div> <div>STORMWATER LONGITUDINAL SECTIONS SHEET 1</div> |                                                                                                         |                                      |                          |                                             |  |  |  |  |
| B   | FOR DEVELOPMENT APPROVAL | 18.10.2022 | DM       |                                                                                                                                                              |                                                                                                                                                                                                   |                                                                                             | <div>DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK.<br/>COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright.</div> |                                   |                                         |                                                                              | <div>Date Plotted</div> <div>7-Jul-23</div>                                                             | <div>Designed By</div> <div>LT</div> | <div>Design Check</div>  | <div>Project Number</div> <div>220879</div> |  |  |  |  |
| A   | FOR REVIEW               | 17.10.2022 | DM       |                                                                                                                                                              |                                                                                                                                                                                                   |                                                                                             |                                                                                                                                                                                                                                                                                                                    |                                   |                                         |                                                                              | <div>Coordinate System</div> <div>STROMLO GRID</div>                                                    | <div>Approved</div> <div>BC</div>    | <div>Approved Date</div> |                                             |  |  |  |  |
| Rev | Description              | Date       | Drawn By |                                                                                                                                                              |                                                                                                                                                                                                   |                                                                                             |                                                                                                                                                                                                                                                                                                                    |                                   |                                         |                                                                              | <div>Height Datum</div> <div>AHD</div>                                                                  | <div>Approved Signature</div>        |                          |                                             |  |  |  |  |

File Name: P:\2022\220879\_L601-Googong\04\_CAD\4.2\_Drawings\CIV\220879-drg-civ-dr-0422.dwg



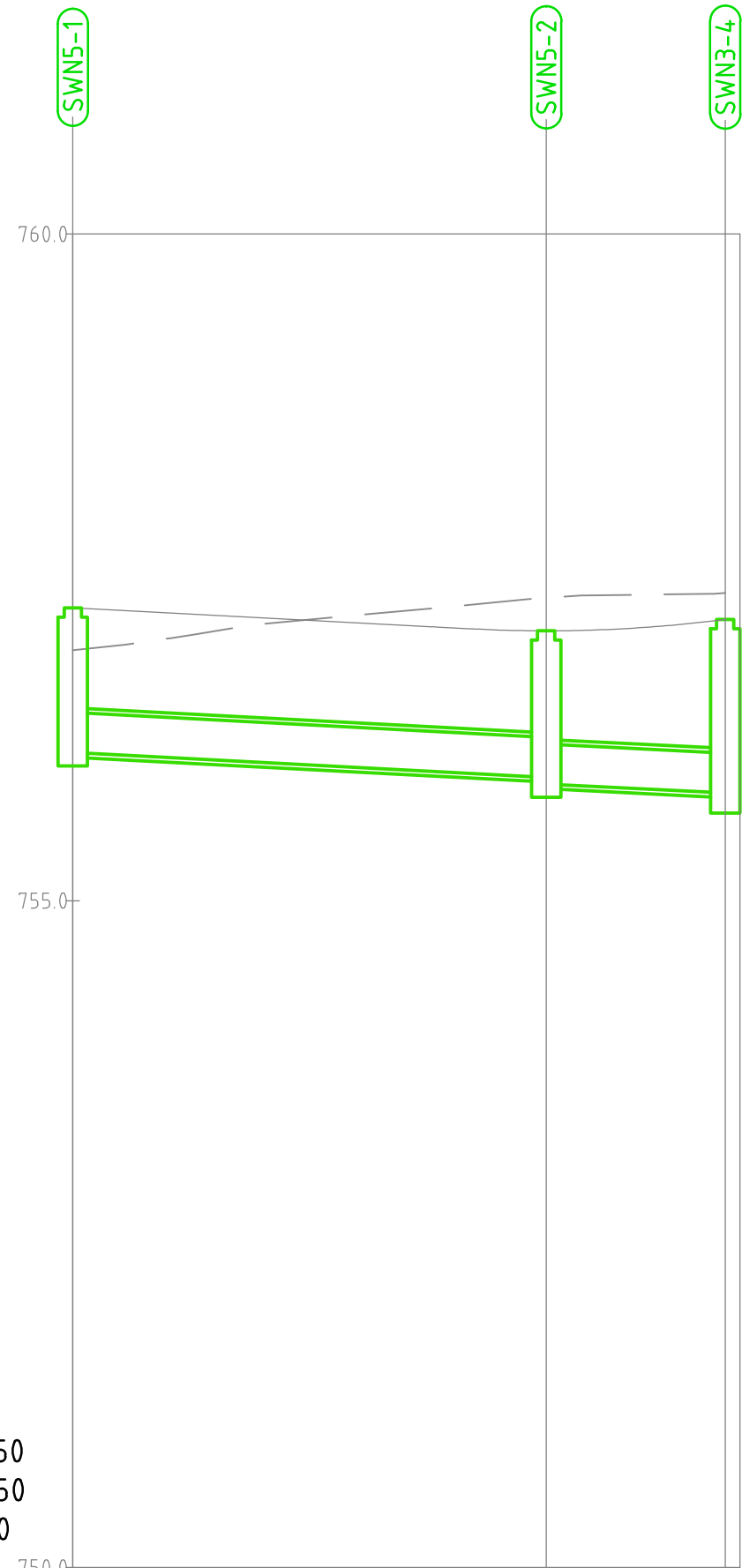
SW3 LONG SECTION



SW4 LONG SECTION

|     |                          |            |          |                                                                                                       |                                                                                                                                                                                |                                                                                                        |                                                   |                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |                                          |      |            |                |         |     |
|-----|--------------------------|------------|----------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|------------------------------------------|------|------------|----------------|---------|-----|
|     |                          |            |          | <div>Scales</div> <div><div><div>057.51012.5m</div><div>1:250 @ A1</div></div></div> <div>North</div> | <div><div><div><div><div></div><div>sellick</div><div>consultants</div></div><div><div>canberra   sydney</div></div></div><div><div>ABN 82 634 296 629</div></div></div></div> | <div>Client Logo</div> <div><div><div><div></div><div>dna</div><div>ARCHITECTS</div></div></div></div> | <div>Status</div> <div>NOT FOR CONSTRUCTION</div> | Project Name and Location                                                                                                                                                                                                                                                                              |  |  |  |  |  |                                          |      |            |                |         |     |
| C   | FOR DEVELOPMENT APPROVAL | 06.07.2023 | DM       |                                                                                                       |                                                                                                                                                                                |                                                                                                        |                                                   | TOWNHOUSE DEVELOPMENT                                                                                                                                                                                                                                                                                  |  |  |  |  |  |                                          |      |            |                |         |     |
| B   | FOR DEVELOPMENT APPROVAL | 18.10.2022 | DM       |                                                                                                       |                                                                                                                                                                                |                                                                                                        |                                                   | DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK.<br>COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright. |  |  |  |  |  | Drawing Title                            |      |            |                |         |     |
| A   | FOR REVIEW               | 17.10.2022 | DM       |                                                                                                       |                                                                                                                                                                                |                                                                                                        |                                                   |                                                                                                                                                                                                                                                                                                        |  |  |  |  |  | STORMWATER LONGITUDINAL SECTIONS SHEET 2 |      |            |                |         |     |
| Rev | Description              | Date       | Drawn By |                                                                                                       |                                                                                                                                                                                |                                                                                                        |                                                   |                                                                                                                                                                                                                                                                                                        |  |  |  |  |  | Project Number                           | Type | Discipline | Sub-Discipline | Drg No. | Rev |
|     |                          |            |          |                                                                                                       |                                                                                                                                                                                |                                                                                                        |                                                   |                                                                                                                                                                                                                                                                                                        |  |  |  |  |  | 220879                                   | DRG  | CIV        | DR             | 0422    | C   |

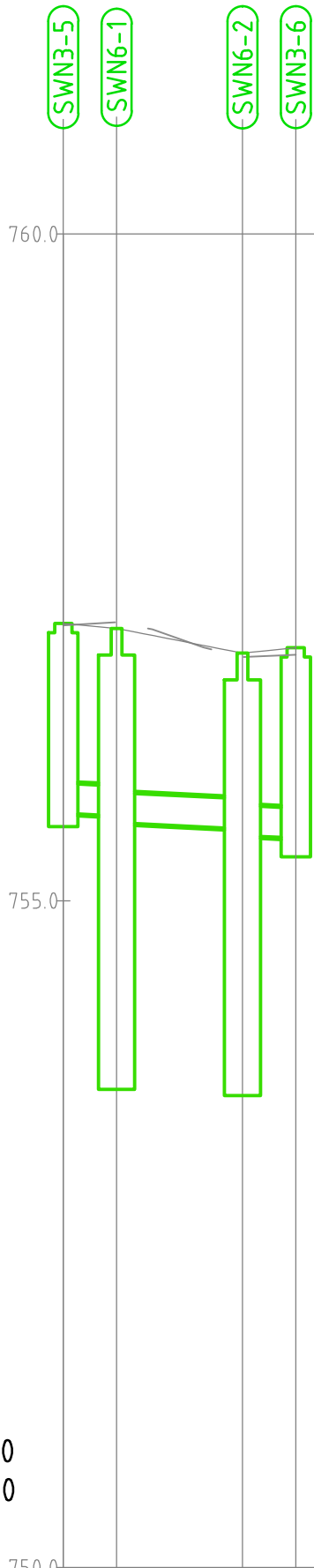
File Name: P:\2022\220879\_L601-Goongong\04\_CAD\4.2\_Drawings\CIV\220879-drg-civ-dr-0423.dwg



HOR. SCALE 1:250  
VERT. SCALE 1:50  
DATUM:750.000

|                                    |                           |                  |                          |        |
|------------------------------------|---------------------------|------------------|--------------------------|--------|
| GRADE %                            | 1.05%                     |                  | 1.00%                    |        |
| PIPE DETAILS<br>(CL to CL LENGTHS) | 300<br>RCP CL2<br>17.740m |                  | 300<br>RCP CL2<br>6.709m |        |
| DESIGN LEVEL<br>AT MH CL           | 757.197                   |                  | 757.024                  |        |
| INVERT LEVEL                       | 756.112                   | 755.925<br>0.814 | 755.875                  |        |
| COVER                              | 0.750                     | 0.764            | 0.814                    | 0.966  |
| CHAINAGE                           | 0.000                     | 17.740           | 17.740                   | 24.449 |

SW5 LONG SECTION



HOR. SCALE 1:250  
VERT. SCALE 1:50  
DATUM:750.000

|                                    |                           |                           |                           |
|------------------------------------|---------------------------|---------------------------|---------------------------|
| GRADE %                            | 1.00%                     | 1.00%                     | 1.00%                     |
| PIPE DETAILS<br>(CL to CL LENGTHS) | 225<br>UPVC SN8<br>2.000m | 225<br>UPVC SN8<br>4.716m | 225<br>UPVC SN8<br>1.999m |
| DESIGN LEVEL<br>AT MH CL           | 757.080                   |                           | 756.857                   |
| INVERT LEVEL                       | 756.656<br>1.183          | 755.636<br>1.166          | 755.586<br>1.216          |
| COVER                              | 1.183                     | 1.166                     | 1.216                     |
| CHAINAGE                           | 0.000                     | 2.000                     | 6.716                     |

SW6 LONG SECTION

STRUCTURE SCHEDULE FOR: STORMWATER

| NAME   | TYPE                 | SETOUT<br>COORDS                | COVER<br>LEVEL | PIT<br>DEPTH [m] | COVER<br>TYPE  |
|--------|----------------------|---------------------------------|----------------|------------------|----------------|
| SWN1-1 | 900SQ SWP            | E: 701713.258<br>N: 6077953.839 | 758.704        | 1.160            | CLASS D GRATED |
| SWN1-2 | 900SQ SWP            | E: 701735.068<br>N: 6077954.727 | 757.984        | 1.210            | CLASS D GRATED |
| SWN1-3 | 900SQ SWP            | E: 701758.086<br>N: 6077956.741 | 757.360        | 1.240            | CLASS D GRATED |
| SWN1-4 | 900SQ SWP            | E: 701756.687<br>N: 6077972.694 | 757.147        | 1.540            | CLASS D GRATED |
| SWN1-5 | 900SQ SWP            | E: 701756.351<br>N: 6077976.677 | 757.168        | 1.943            | CLASS D COVER  |
| SWN1-6 | 900SQ SWP            | E: 701780.878<br>N: 6077978.823 | 757.418        | 2.489            | CLASS B COVER  |
| SWN1-7 | 900SQ SWP            | E: 701781.210<br>N: 6077975.041 | 757.418        | 3.444            | CLASS B GRATED |
| SWN2-1 | SPEL ECOCEPTOR 4000  | E: 701754.607<br>N: 6077972.518 | 757.188        | 3.402            | CLASS D COVER  |
| SWN2-2 | SPEL HYDROSYSTEM1200 | E: 701754.271<br>N: 6077976.501 | 757.224        | 3.678            | CLASS D COVER  |
| SWN3-1 | 900SQ SWP            | E: 701718.571<br>N: 6077884.599 | 758.481        | 1.160            | CLASS D GRATED |
| SWN3-2 | 900SQ SWP            | E: 701740.089<br>N: 6077886.482 | 758.189        | 1.210            | CLASS D GRATED |
| SWN3-3 | 900SQ SWP            | E: 701764.050<br>N: 6077888.578 | 757.808        | 1.240            | CLASS D GRATED |
| SWN3-4 | 900SQ SWP            | E: 701761.836<br>N: 6077913.889 | 757.109        | 1.351            | CLASS D GRATED |
| SWN3-5 | 900SQ SWP            | E: 701766.973<br>N: 6077914.340 | 757.080        | 1.424            | CLASS D COVER  |
| SWN3-6 | 900SQ SWP            | E: 701771.673<br>N: 6077914.752 | 756.898        | 1.468            | CLASS D COVER  |
| SWN3-7 | 900SQ SWP            | E: 701786.372<br>N: 6077916.042 | 756.333        | 1.416            | CLASS B COVER  |
| SWN3-8 | 900SQ SWP            | E: 701785.778<br>N: 6077922.828 | 756.156        | 1.308            | CLASS B GRATED |
| SWN4-1 | 900SQ SWP            | E: 701765.376<br>N: 6077873.427 | 758.226        | 1.085            | CLASS D GRATED |
| SWN5-1 | 900SQ SWP            | E: 701759.705<br>N: 6077938.244 | 757.197        | 1.085            | CLASS D GRATED |
| SWN5-2 | 900SQ SWP            | E: 701761.251<br>N: 6077920.572 | 757.024        | 1.149            | CLASS D GRATED |
| SWN6-1 | SPEL ECOCEPTOR 4000  | E: 701766.801<br>N: 6077916.332 | 757.042        | 3.256            | CLASS D COVER  |
| SWN6-2 | SPEL HYDROSYSTEM1200 | E: 701771.499<br>N: 6077916.743 | 756.857        | 3.118            | CLASS D COVER  |

STORMWATER

| PIPE NAME | SIZE | LENGTH | SLOPE |
|-----------|------|--------|-------|
| SWP1-1    | 375  | 21.828 | 3.30% |
| SWP1-2    | 375  | 23.106 | 2.48% |
| SWP1-3    | 450  | 16.014 | 1.33% |
| SWP1-4    | 450  | 3.997  | 3.00% |
| SWP1-5    | 450  | 24.621 | 1.00% |
| SWP1-6    | 450  | 3.796  | 1.00% |
| SWP2-0    | 225  | 2.088  | 1.00% |
| SWP2-1    | 225  | 3.997  | 1.00% |
| SWP2-2    | 225  | 2.088  | 1.00% |
| SWP3-1    | 375  | 21.600 | 1.35% |
| SWP3-2    | 375  | 24.053 | 1.38% |
| SWP3-3    | 450  | 25.408 | 2.75% |
| SWP3-4    | 450  | 5.157  | 1.00% |
| SWP3-5    | 450  | 4.718  | 1.00% |
| SWP3-6    | 450  | 14.755 | 2.29% |
| SWP3-7    | 450  | 6.811  | 1.00% |
| SWP4-1    | 300  | 15.208 | 2.75% |
| SWP5-1    | 300  | 17.740 | 1.05% |
| SWP5-2    | 300  | 6.709  | 1.00% |
| SWP6-0    | 225  | 2.000  | 1.00% |
| SWP6-1    | 225  | 4.716  | 1.00% |
| SWP6-2    | 225  | 1.999  | 1.00% |

|     |                          |            |          |
|-----|--------------------------|------------|----------|
|     |                          |            |          |
|     |                          |            |          |
|     |                          |            |          |
| C   | FOR DEVELOPMENT APPROVAL | 06.07.2023 | DM       |
| B   | FOR DEVELOPMENT APPROVAL | 18.10.2022 | DM       |
| A   | FOR REVIEW               | 17.10.2022 | DM       |
| Rev | Description              | Date       | Drawn By |

|                                                                                                                                                                                                                                                                                                              |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Scales                                                                                                                                                                                                                                                                                                       | North |
| 0 5 7.5 10 12.5m<br>1:250 @ A1                                                                                                                                                                                                                                                                               |       |
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|                      |              |                    |    |
|----------------------|--------------|--------------------|----|
| NOT FOR CONSTRUCTION |              |                    |    |
| Original Size        | A1           | Drawn By           | DM |
| Date Plotted         | 7-Jul-23     | Designed By        | LT |
| Coordinate System    | STROMLO GRID | Approved           | BC |
| Height Datum         | AHD          | Approved Signature |    |

|                           |      |            |                |         |     |
|---------------------------|------|------------|----------------|---------|-----|
| Project Name and Location |      |            |                |         |     |
| TOWNHOUSE DEVELOPMENT     |      |            |                |         |     |
| LOT 601, GOONGGONG, NSW   |      |            |                |         |     |
| Drawing Title             |      |            |                |         |     |
| STORMWATER LONGITUDINAL   |      |            |                |         |     |
| SECTIONS SHEET 3          |      |            |                |         |     |
| Project Number            | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 220879                    | DRG  | CIV        | DR             | 0423    | C   |

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POLLUTION CONTROL NOTES

DEVELOPMENT CONTACT DETAILS

PROJECT MANAGER: TBC

SITE MANAGER: TBC

TOTAL SITE AREA: 21,172m<sup>2</sup>  
AVERAGE EXISTING SITE SLOPE: 3.8%

SEDIMENT CONTROL NOTES

- SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH "ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT" (ENVIRONMENT PROTECTION AUTHORITY MARCH 2011) AND FULLY OPERATIONAL PRIOR TO STRIPPING OF SITE TOP SOIL.
- STOCK PILE/S TO BE LOCATED AWAY FROM DRAINAGE LINES AND SURFACE FLOW PATHS. CONTOURED STRIATIONS OR FURROWS TO BE PROVIDED TO STOCK PILES TO MINIMISE EROSION.
- STABILISED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PRIOR TO ACCESS TO SITE BY CONSTRUCTION VEHICLES. AGGREGATE TO BE TURNED WHEN SEDIMENT BUILDS UP AND RENEWED WHEN REQUIRED.
- WHERE UNDERGROUND STORMWATER DRAINAGE IS INSTALLED TO INTERNAL ROADWORKS, PROVIDE INLET FILTER.
- ENVIRONMENT PROTECTION AGREEMENT TO BE TAKEN OUT BY CONTRACTOR WITH ENVIRONMENT PROTECTION AUTHORITY. (TELEPHONE 132 281)
- ALL NEW CONSTRUCTION WORK MUST BE CONTAINED WITHIN THE SITE EXCEPT FOR APPROVED SERVICE CONNECTIONS AND ROADWORKS.
- LIMIT ACCESS TO SITE DURING AND IMMEDIATELY AFTER WET WEATHER.
- REGULARLY REMOVE ANY SOIL FROM ROADS ADJACENT TO THE SITE.
- NO STORAGE OF CONSTRUCTION MATERIALS, PARKING OF VEHICLES NOR EQUIPMENT PERMITTED OUTSIDE OF BLOCK WITHOUT QPRC APPROVAL.
- NO SITE SHEDS, STORAGE SHEDS OR SITE AMENITIES TO BE ERECTED OUTSIDE OF BLOCK WITHOUT QPRC APPROVAL.
- PROVIDE KERBSIDE FILTER ROLL TO EXISTING SUMPS WHERE INDICATED.
- KERBSIDE FILTER ROLLS TO BE REMOVED, CLEANED AND REINSTATED ON A WEEKLY BASIS AT A MINIMUM. TRAPPED SEDIMENT ABOUT SUMPS ALSO TO BE REMOVED. CLEANING IS ALSO TO TAKE PLACE IMMEDIATELY AFTER PERIODS OF RAINFALL DURING CONSTRUCTION.
- ALL SERVICE TRENCHES TO BE BACK FILLED WITHIN 24 HOURS OF INSPECTION.
- EXCESS SOIL IS TO BE DISPOSED AT AN ENVIRONMENT PROTECTION AUTHORITY APPROVED LOCATION.
- THE SITE FOREMAN IS TO CONTACT THE ENVIRONMENT PROTECTION AUTHORITY (132281) TO ARRANGE A SITE INSPECTION AND ENDORSEMENT OF SEDIMENT AND EROSION CONTROL MEASURES PRIOR TO WORKS COMMENCING.
- THE SITE FOREMAN IS TO CONTACT THE ENVIRONMENT PROTECTION AUTHORITY (132281) TO DISCUSS ANY PROPOSED MAJOR CHANGES TO SEDIMENT AND EROSION CONTROLS ON SITE PRIOR TO IMPLEMENTING THE CHANGES.
- THE SITE FOREMAN IS TO ENSURE CONTRACTOR'S ACCESS AND EXIT THE SITE USING ONLY ENVIRONMENT PROTECTION AUTHORITY APPROVED STABILISED ACCESS/EXIT POINTS AS DETAILED ON ENDORSED SEDIMENT AND EROSION CONTROL PLANS.
- FOR SITES 1 HECTARE OR GREATER, A TEMPORARY SEDIMENT POND SHALL BE CONSTRUCTED. THE SEDIMENT POND SHALL BE SIZED TO HOLD 150m<sup>3</sup> PER HECTARE IN ACCORDANCE WITH LANDCOM'S MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION (THE BLUE BOOK). DISCHARGE FROM THE POND IS PERMISSIBLE WHEN THE WATER pH IS 6.5-8.5 AND IS CLARIFIED TO OR AT BELOW 60mg/L (50NTU). IF SEDIMENT LEVEL IS GREATER, THEN PRIOR TO DISCHARGE, THE DAM MUST BE DOSED WITH EITHER ALUM OR GYPSUM AND ALLOWED TO SETTLE UNTIL THE SEDIMENT IS LESS THAN 60mg/L (50NTU).
- WATER LEVEL TO BE MAINTAINED AT LESS THAN 20% OF CAPACITY TO ALLOW RUNOFF STORAGE DURING A RAIN EVENT.
- REGULAR DREDGING OF THE DAM MUST BE CARRIED OUT TO REMOVE SILT.
- SITE DRAWING AND DETAILS MUST BE PROVIDED TO ENVIRONMENT PROTECTION AUTHORITY, FOR APPROVAL PRIOR TO WORKS COMMENCING.

WASTE NOTES

- WASTE ENCLOSURE(S) ARE TO BE USED FOR ALL RUBBISH ON SITE AND RUBBISH REMOVED FROM ENCLOSURE(S) WHEN REQUIRED OR FULL.

DISPOSAL OF SPOIL

PRIOR TO ANY WORKS COMMENCING INVOLVING EXPORT OF SPOIL GREATER THAN 100m<sup>3</sup>, THE FOLLOWING INFORMATION MUST BE PROVIDED TO THE ENVIRONMENT PROTECTION AUTHORITY VIA EMAIL (COUNCIL@QPRC.NSW.GOV.AU):

- WHERE THE SPOIL WILL ORIGINATE FROM: WHO IS DISPOSING OF THE SPOIL: WHERE THE SPOIL WILL BE TAKEN: THE AMOUNT OF SPOIL TO BE TAKEN AWAY;
- MOVEMENT DATES AND CONTACT DETAILS: DESCRIPTION OF THE TYPE OF SPOIL TAKEN AWAY: DETAILS OF HOW RECORDS WILL BE KEPT; AND
- TIME FRAME TO COMPLETE THE WORKS TO THE SATISFACTION OF THE ENVIRONMENT PROTECTION AUTHORITY.

SPOIL MAY BE TAKEN TO AN APPROVED LANDFILL SITE WITHOUT APPROVAL, IF THE SPOIL IS TO BE TAKEN TO AN AREA OTHER THAN AN APPROVED LANDFILL SITE, ENSURE THE ACCEPTOR OF THE SPOIL IS AWARE OF THE QPRC REQUIREMENTS

NOISE

ENSURE ALL BUILDING WORK THAT GENERATES NOISE IS CONDUCTED WITHIN THE TIME PERIODS DETAILED IN SCHEDULE 2 OF THE ENVIRONMENT PROTECTION REGULATIONS 2005.

| BUILDING WORK DETAILS                                 | MONDAY TO SATURDAY | SUNDAY AND PUBLIC HOLIDAYS                       |
|-------------------------------------------------------|--------------------|--------------------------------------------------|
| INDUSTRIAL, CITY AND TOWN CENTRE AREAS                | 6AM TO 8PM         | 6AM TO 8PM                                       |
| ANY OTHER AREA WHEN WORK COMPLETED WITHIN 2 WEEKS     | 7AM TO 6PM         | 8AM TO 8PM                                       |
| ANY OTHER AREA WHEN WORK NOT COMPLETED WITHIN 2 WEEKS | 7AM TO 6PM         | CONSTRUCTION WORK MUST NOT EXCEED NOISE STANDARD |

IN ADDITION:

- SCHEDULE NOISY ACTIVITIES FOR THE LEAST SENSITIVE TIMES OF THE DAY SUCH AS MID-MORNING AND MID-AFTERNOON.
- SELECT MACHINERY THAT PRODUCE LESS NOISE; AND
- ENSURE MACHINERY IS WELL MAINTAINED.

DUST MANAGEMENT

WHERE BUILDING WORK GENERATES DUST, ALL REASONABLE AND PRACTICABLE MEASURES SHOULD BE TAKEN TO MINIMISE THAT DUST. THIS CAN OFTEN BE ACHIEVED BY:

- RETAINING EXISTING VEGETATION WHERE POSSIBLE.
- STRIPPING AREAS PROGRESSIVELY AND ONLY WHERE IT IS NECESSARY FOR WORKS TO OCCUR.
- EMPLOYING STABILISING METHODS SUCH AS MATTING, GRASSING OR MULCH.
- DAMPENING THE GROUND WITH A LIGHT WATER SPRAY (CONTACT THE ENVIRONMENT PROTECTION AUTHORITY FOR REQUIREMENTS DURING EXTREME DROUGHT CONDITIONS).
- ROUGHENING SURFACE OF EXPOSED SOIL.
- COVERING STOCKPILES AND LOCATING THEM WHERE THEY ARE PROTECTED FROM THE WIND.
- RESTRICTING VEHICLE MOVEMENTS.
- COVERING THE LOAD WHEN TRANSPORTING MATERIAL.
- CONSTRUCTING WIND BREAKS SUCH AS WIND FENCES IN ACCORDANCE WITH THE BLUE BOOK.
- A WATER CART OR SUFFICIENT WATER SPRAYS SHALL BE MADE AVAILABLE AT ALL TIMES. IN ADVERSE CONDITIONS WHEN DUST CANNOT BE ADEQUATELY CONTROLLED WHEN WORKS ARE BEING UNDERTAKEN, WORKS WILL CEASE IN THESE AREAS UNTIL CONDITIONS IMPROVE.
- WATER SHALL BE APPLIED TO SUPPRESS DUST FROM OPEN EARTHWORKS AS WELL AS UNPROTECTED STOCKPILES.
- AREAS OF COMPLETED EARTHWORKS SHALL BE PROGRESSIVELY REHABILITATED WITH DRYLAND GRASS AND FENCED OFF AS SOON AS PRACTICABLE TO PREVENT FURTHER EROSION.
- THE CONTRACTOR IS TO CONTACT THE WATER RESOURCES UNIT TO OBTAIN AN EXEMPTION TO USE NON-POTABLE WATER FROM ON OR OFF THE SITE IF REQUIRED.
- DURING WINDY CONDITIONS, THE CONTRACTOR IS TO MINIMISE DUST GENERATING ACTIVITIES AND REGULARLY APPLY DUST SUPPRESSING MEASURES. IF DUST SUPPRESSION MEASURES FAIL THE CONTRACTOR IS TO CEASE DUST GENERATING ACTIVITIES.

FIRE

- BURNING OF WASTE MATERIALS ON THE SITE, SUCH AS PLASTICS, CHEMICALS OR WOOD THAT MAY BE PAINTED, CHEMICALLY TREATED OR CONTAMINATED WITH CHEMICALS IS ILLEGAL.
- A FIRE MAY BE PERMITTED FOR HEATING PURPOSES PROVIDED IT IS IN A BRAZIER OR CONSTRUCTED FIREPLACE. ONLY SEASONED, UNTREATED TIMBER CAN BE BURNED FOR HEATING PURPOSES.

MAINTENANCE SCHEDULE

DAILY:

- CHECK AND REINSTATE SILT CONTROL FENCES.
- SWEEP AND REMOVE DIRT AND ANY OTHER BUILDING MATERIAL FROM GUTTERS, FOOTPATHS AND ROADWAYS ADJACENT TO THE SITE BY CLOSE OF BUSINESS AND PRIOR TO RAIN AND AS REQUIRED. ALL NECESSARY STEPS SHOULD BE TAKEN THAT ARE PRACTICAL AND REASONABLE TO MINIMISE DUST POLLUTION.

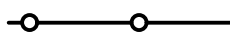
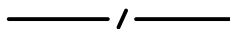
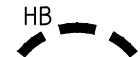
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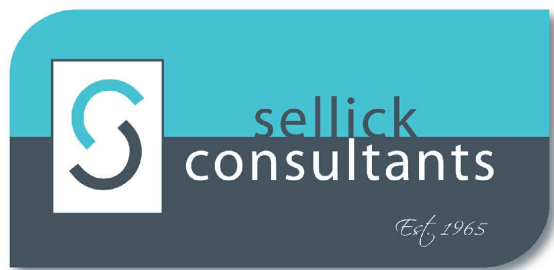
- STABILISED CONSTRUCTION ENTRANCE AGGREGATE TO BE TURNED AND RENEWED.

DURING/AFTER WET WEATHER:

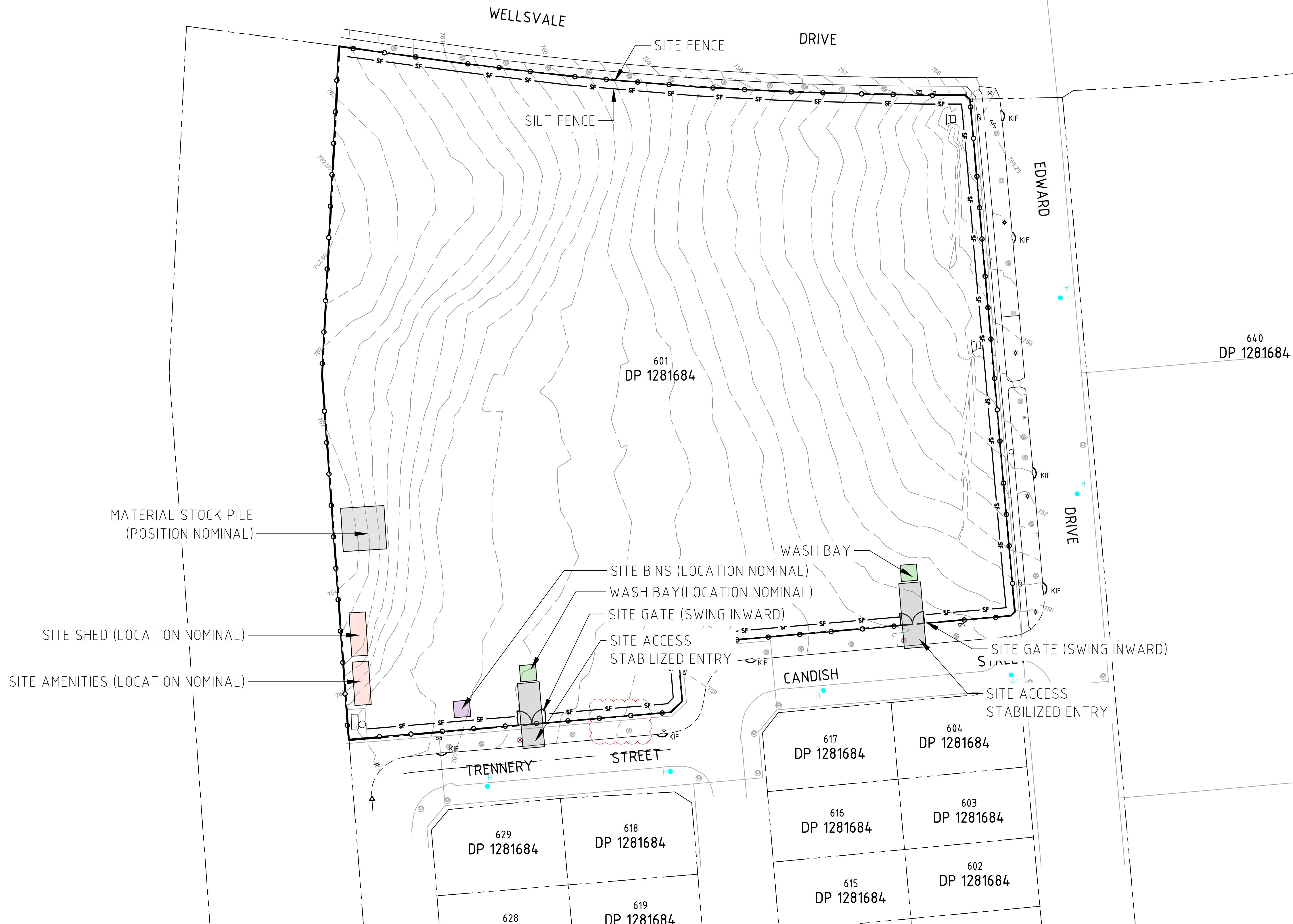
- LIMIT CONSTRUCTION VEHICLE ACCESS TO SITE DURING AND IMMEDIATELY FOLLOWING WET WEATHER. CHECK AND REINSTATE SEDIMENT EROSION CONTROL MEASURES AND CHECK ROAD.

LEGEND

- 
- SITE BOUNDARY
- 
- SITE / SECURITY FENCE
- 
- VERGE FENCE
- 
- SITE GATES (INDICATIVE)  
-GATES TO OPEN INTO SITE
- 
- STABILISED CONSTRUCTION  
ENTRANCE LOCATION
- 
- SITE SHEDS (INDICATIVE)
- 
- EXISTING CONTOUR
- 
- EXISTING TREE TO BE RETAINED  
>(INDICATIVE SYMBOL SHOWN)
- 
- EXISTING TREE TO BE REMOVED
- 
- SILT FENCE (PRIOR TO ANY EXCAVATION)
- 
- KERB INLET FILTER
- 
- SEDIEMNT & EROSION CONTROL POND
- 
- HAY BALES

|     |                             |            |          |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                  |                                                                                       |                                |              |                    |    |                                                                              |        |                                                               |     |            |     |                |    |         |      |     |   |
|-----|-----------------------------|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------|--------------|--------------------|----|------------------------------------------------------------------------------|--------|---------------------------------------------------------------|-----|------------|-----|----------------|----|---------|------|-----|---|
|     |                             |            |          | Scales                                                                                                                                                                                                                                                                                                 | North | <br>canberra   sydney<br>ABN 82 634 296 629 |  | Status<br>NOT FOR CONSTRUCTION |              |                    |    | Project Name and Location<br>TOWNHOUSE DEVELOPMENT<br>LOT 601, GOOGGONG, NSW |        |                                                               |     |            |     |                |    |         |      |     |   |
|     |                             |            |          |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                  |                                                                                       | Original Size                  | A1           | Drawn By           | DM | Drafting Check                                                               | LT     | Drawing Title<br>SEDIMENT EROSION CONTROL<br>NOTES AND LEGEND |     |            |     |                |    |         |      |     |   |
|     |                             |            |          |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                  |                                                                                       | Date Plotted                   | 7-Jul-23     | Designed By        | LT | Design Check                                                                 | JM     |                                                               |     |            |     |                |    |         |      |     |   |
|     |                             |            |          |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                  |                                                                                       | Coordinate System              | STROMLO GRID | Approved           | BC | Approved Date                                                                |        |                                                               |     |            |     |                |    |         |      |     |   |
| C   | FOR DEVELOPMENT APPROVAL    | 06.07.2023 | DM       | DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK.<br>COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright. |       |                                                                                                                                  |                                                                                       | Height Datum                   | AHD          | Approved Signature |    | Project Number                                                               | 220879 | Type                                                          | DRG | Discipline | CIV | Sub-Discipline | EV | Drg No. | 0910 | Rev | C |
| B   | FOR DEVELOPMENT APPLICATION | 18.10.2022 | DM       |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                  |                                                                                       |                                |              |                    |    |                                                                              |        |                                                               |     |            |     |                |    |         |      |     |   |
| A   | FOR REVIEW                  | 17.10.2022 | DM       |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                  |                                                                                       |                                |              |                    |    |                                                                              |        |                                                               |     |            |     |                |    |         |      |     |   |
| Rev | Description                 | Date       | Drawn By |                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                  |                                                                                       |                                |              |                    |    |                                                                              |        |                                                               |     |            |     |                |    |         |      |     |   |

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|     |  |  |                             |            |          |                                                                                                                                                                                                                                                                                                        |             |  |  |                                |  |  |                           |  |  |  |  |  |
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|     |  |  | Scales                      |            | North    |                                                                                                                                                                                                                                                                                                        | Client Logo |  |  | Status                         |  |  | Project Name and Location |  |  |  |  |  |
|     |  |  |                             |            |          |                                                                                                                                                                                                                                                                                                        |             |  |  | <b>NOT FOR CONSTRUCTION</b>    |  |  | TOWNHOUSE DEVELOPMENT     |  |  |  |  |  |
|     |  |  |                             |            |          |                                                                                                                                                                                                                                                                                                        |             |  |  | Original Size A1               |  |  | LOT 601, GOOGGONG, NSW    |  |  |  |  |  |
| C   |  |  | FOR DEVELOPMENT APPROVAL    | 06.07.2023 | DM       | DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK.<br>COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright. |             |  |  | Date Plotted 7-Jul-23          |  |  | SEDIMENT EROSION CONTROL  |  |  |  |  |  |
| B   |  |  | FOR DEVELOPMENT APPLICATION | 18.10.2022 | DM       |                                                                                                                                                                                                                                                                                                        |             |  |  | Designed By LT                 |  |  | PLAN                      |  |  |  |  |  |
| A   |  |  | FOR REVIEW                  | 17.10.2022 | DM       |                                                                                                                                                                                                                                                                                                        |             |  |  | Coordinate System STROMLO GRID |  |  |                           |  |  |  |  |  |
| Rev |  |  | Description                 | Date       | Drawn By |                                                                                                                                                                                                                                                                                                        |             |  |  | Approved BC                    |  |  | Project Number 220879     |  |  |  |  |  |
|     |  |  |                             |            |          |                                                                                                                                                                                                                                                                                                        |             |  |  | Approved Signature             |  |  | Type DRG                  |  |  |  |  |  |
|     |  |  |                             |            |          |                                                                                                                                                                                                                                                                                                        |             |  |  |                                |  |  | Discipline CIV            |  |  |  |  |  |
|     |  |  |                             |            |          |                                                                                                                                                                                                                                                                                                        |             |  |  |                                |  |  | Sub-Discipline EV         |  |  |  |  |  |
|     |  |  |                             |            |          |                                                                                                                                                                                                                                                                                                        |             |  |  |                                |  |  | Drg No. 0911              |  |  |  |  |  |
|     |  |  |                             |            |          |                                                                                                                                                                                                                                                                                                        |             |  |  |                                |  |  | Rev C                     |  |  |  |  |  |

|                           |      |            |                |         |     |
|---------------------------|------|------------|----------------|---------|-----|
| Project Name and Location |      |            |                |         |     |
| TOWNHOUSE DEVELOPMENT     |      |            |                |         |     |
| LOT 601, GOOGONG, NSW     |      |            |                |         |     |
| Drawing Title             |      |            |                |         |     |
| EARTHWORKS                |      |            |                |         |     |
| CUT AND FILL VOLUMES PLAN |      |            |                |         |     |
| Project Number            | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 20879                     | DRG  | CIV        | EW             | 0201    | A   |

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REFERENCES:

1. FOR PAVEMENT CONCRETE JOINTING PLAN REFER DRAWING PV-0311
2. FOR PAVEMENT DRIVEWAY JOINTING PLAN REFER DRAWING PV-0321
3. FOR PAVEMENT DETAILS REFER DRAWINGS PV-0331 TO PV-0333

| Rev | Description                | Date       | Drawn By |
|-----|----------------------------|------------|----------|
| D   | FOR DEVELOPMENT APPROVAL   | 06.07.2023 | DM       |
| C   | ARCHITECTURAL BASE UP DATE | 27.10.2022 | DM       |
| B   | FOR DEVELOPMENT APPROVAL   | 18.10.2022 | DM       |
| A   | FOR REVIEW                 | 17.10.2022 | DM       |

Scales

010152025m

1:500 @ A1

North

DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK.

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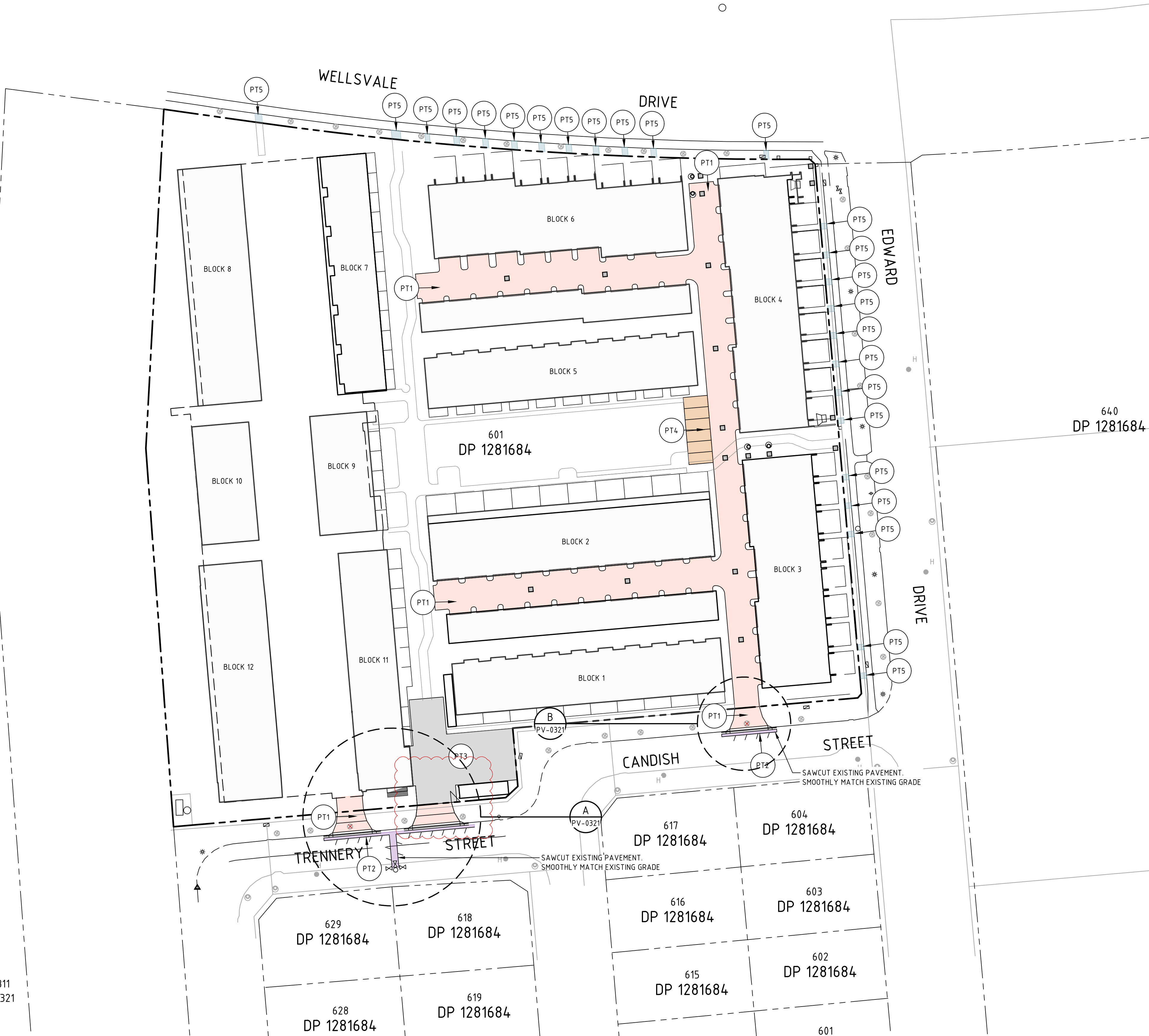


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| Date Plotted         | 7-Jul-23     | Designed By        | LT |
| Coordinate System    | STROMLO GRID | Approved           | BC |
| Height Datum         | AHD          | Approved Signature |    |

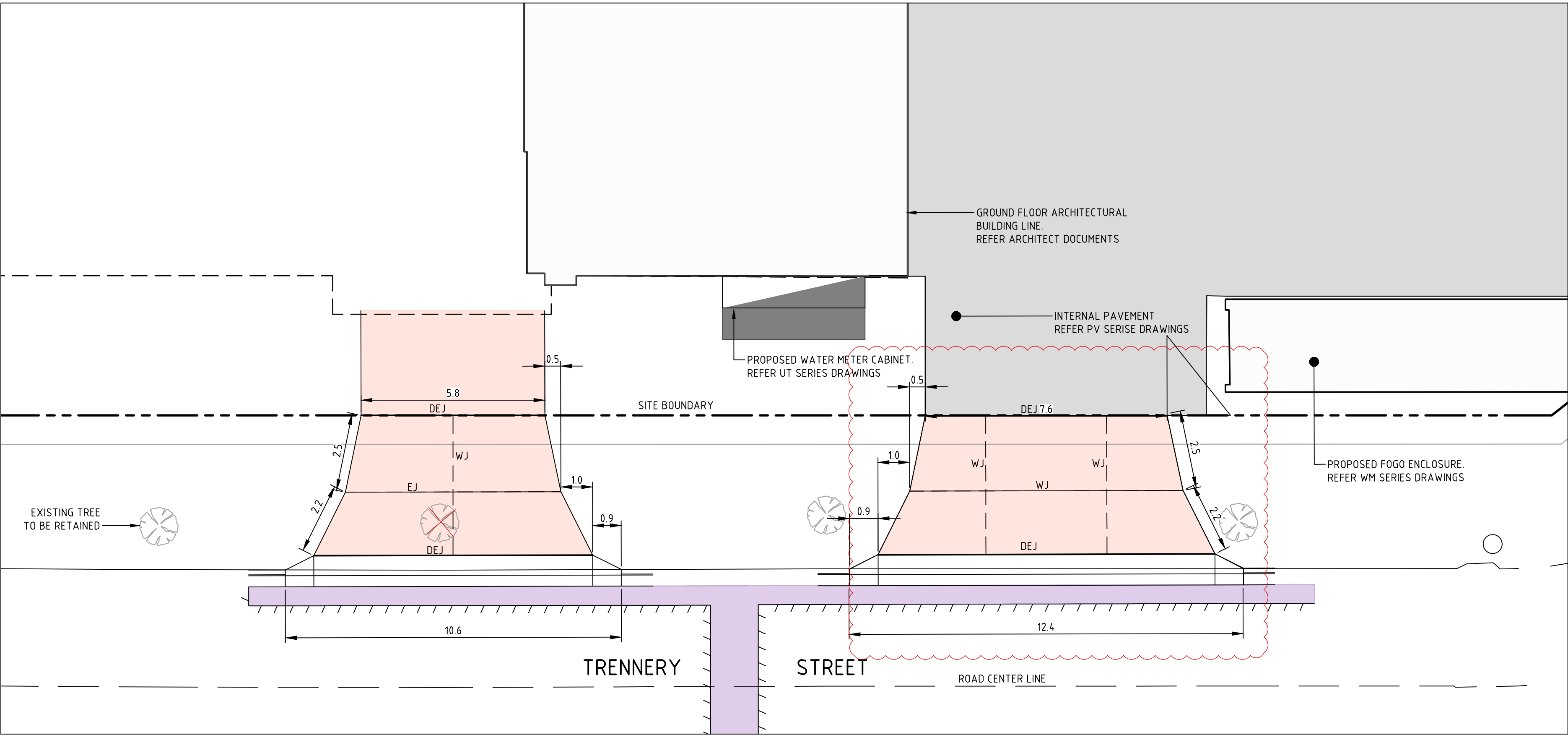
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| LOT 601, GOOGGONG, NSW    |      |            |                |         |     |  |
| Drawing Title             |      |            |                |         |     |  |
| PAVEMENT PLAN             |      |            |                |         |     |  |
| SHEET 1                   |      |            |                |         |     |  |
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| 220879                    | DRG  | CIV        | PV             | 0301    | D   |  |

LEGEND

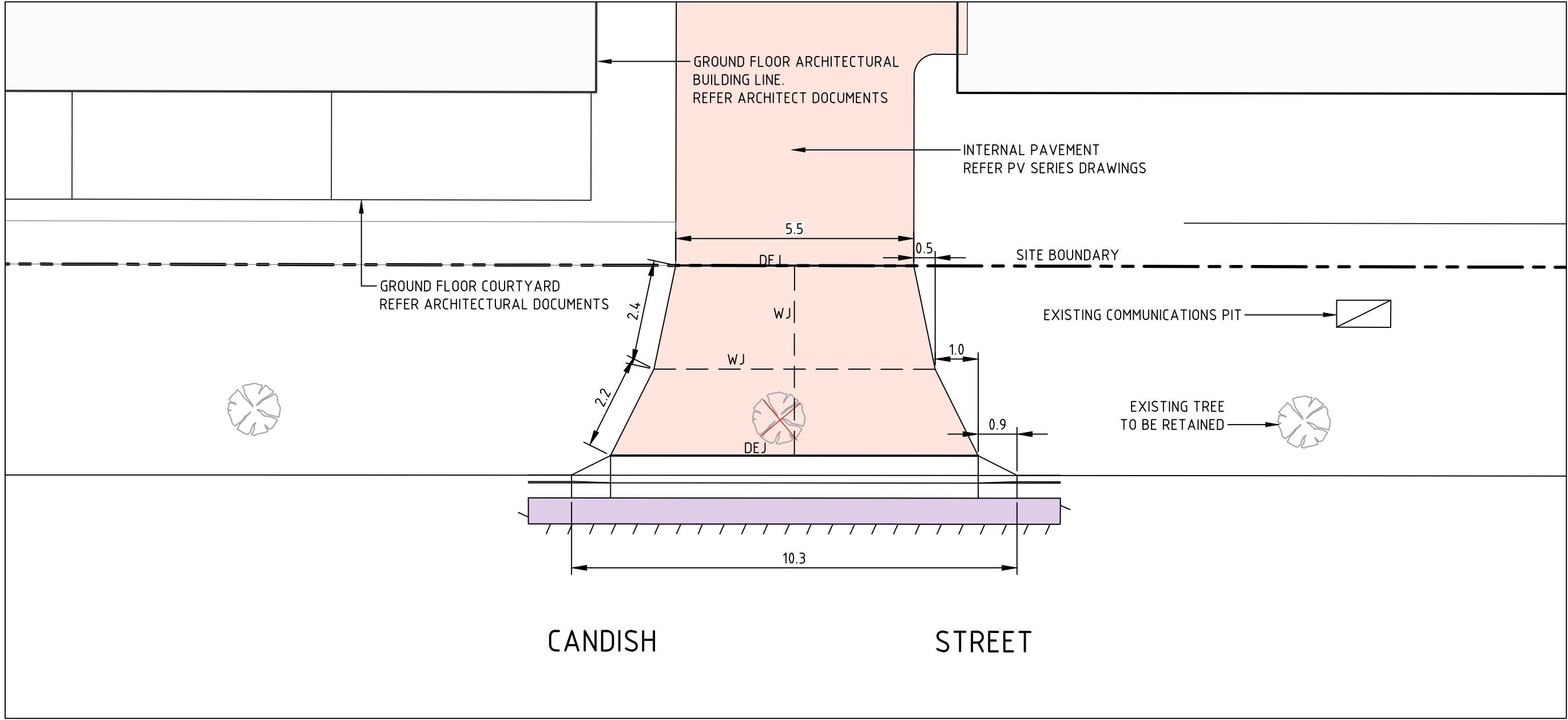
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150 THICK RC
- PAVEMENT TYPE 02  
REINSTATE AC
- PAVEMENT TYPE 03  
FOOTPATH 100 THICK RC
- PAVEMENT TYPE 04  
REFER ARCHITECT DOCUMENTATION
- PAVEMENT TYPE 05  
REFER ARCHITECT DOCUMENTATION
- FOR ALL OTHER PAVEMENT TYPES AND FINISHES REFER ARCHITECTS DOCUMENTATION



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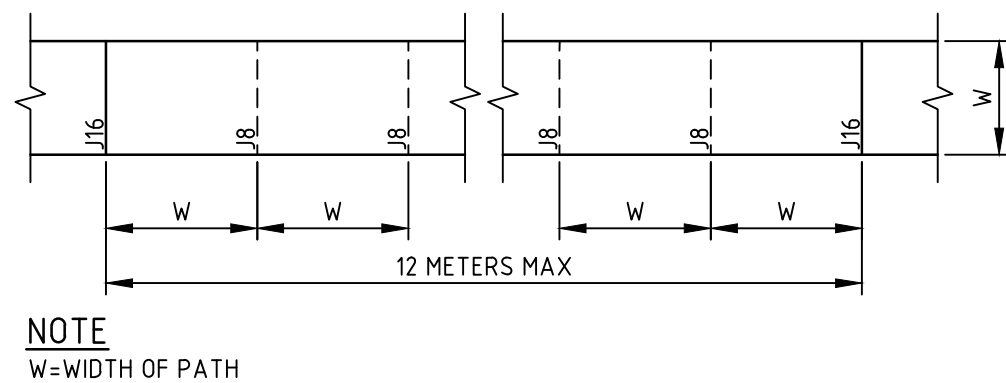
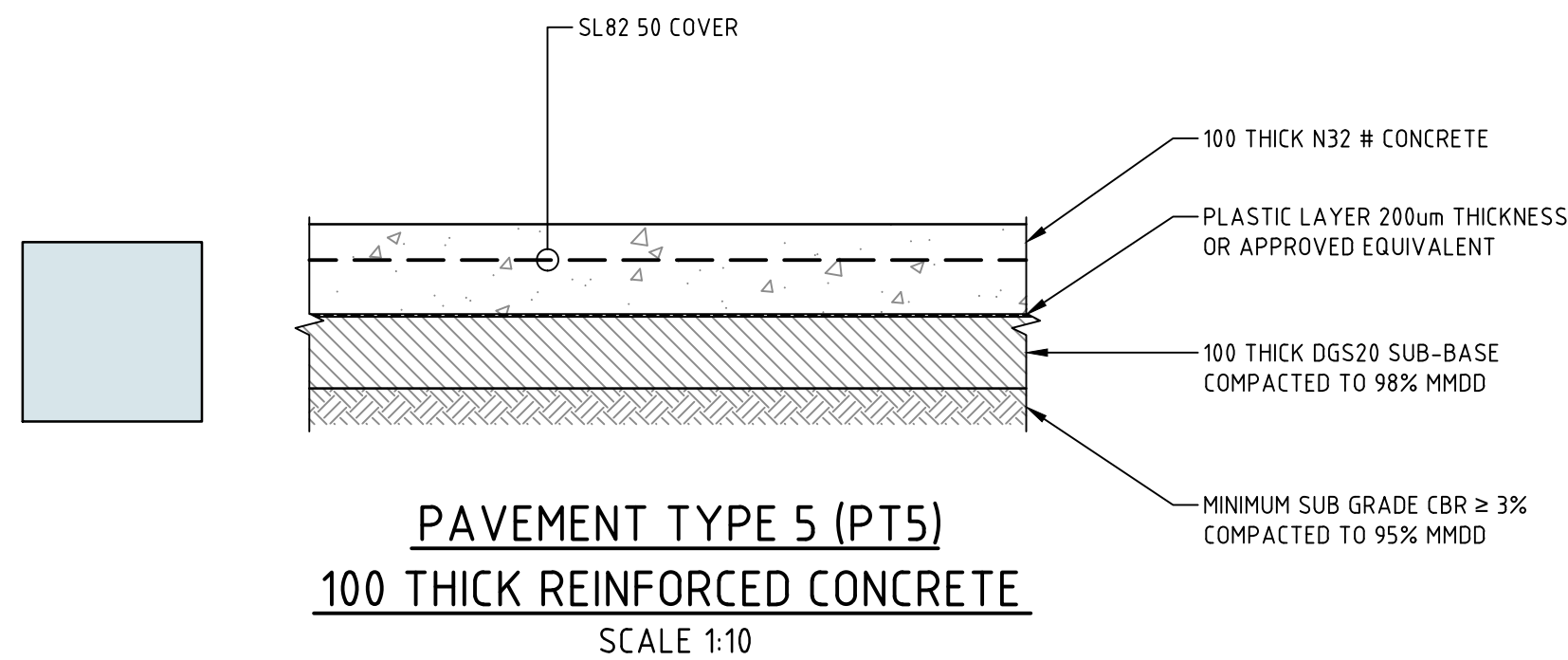
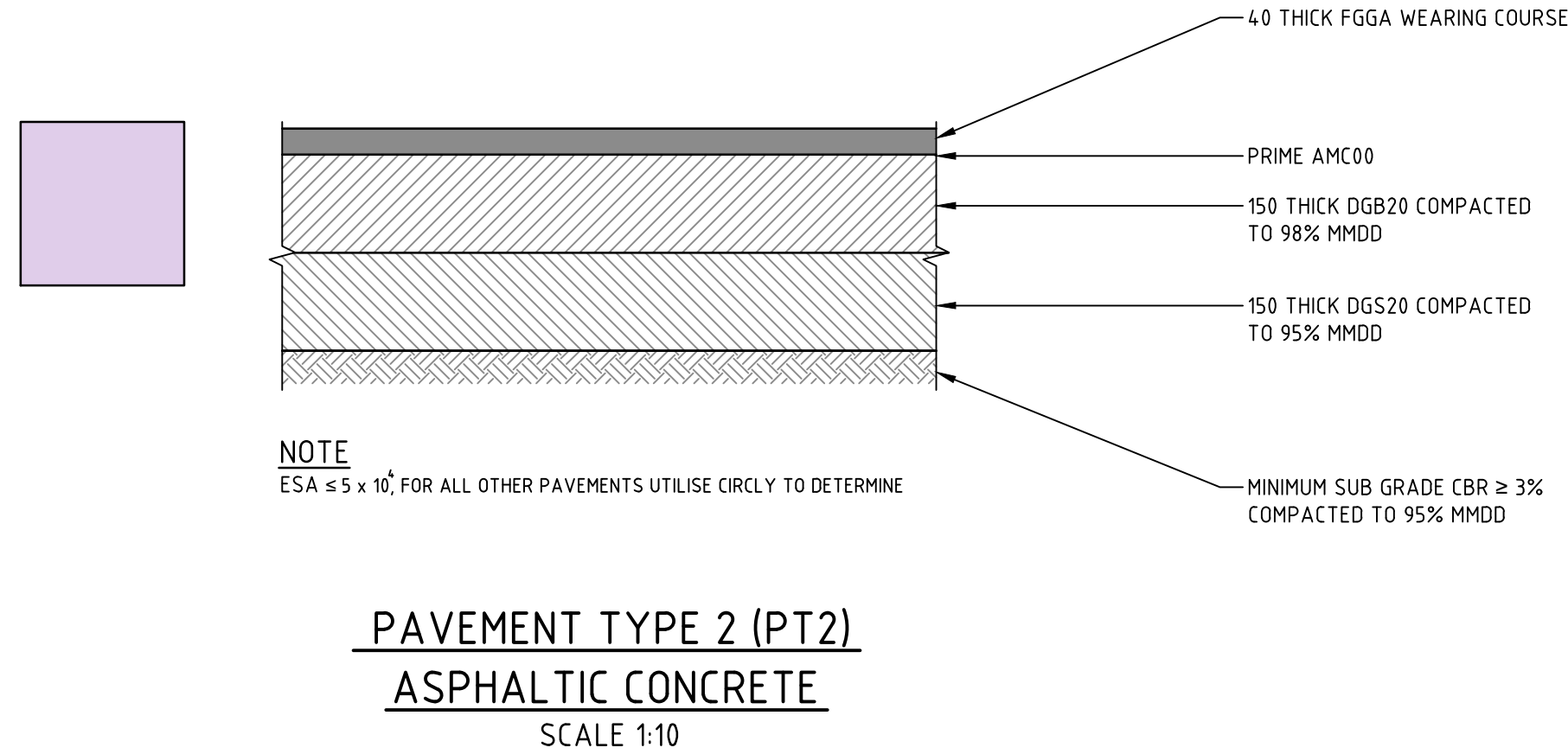
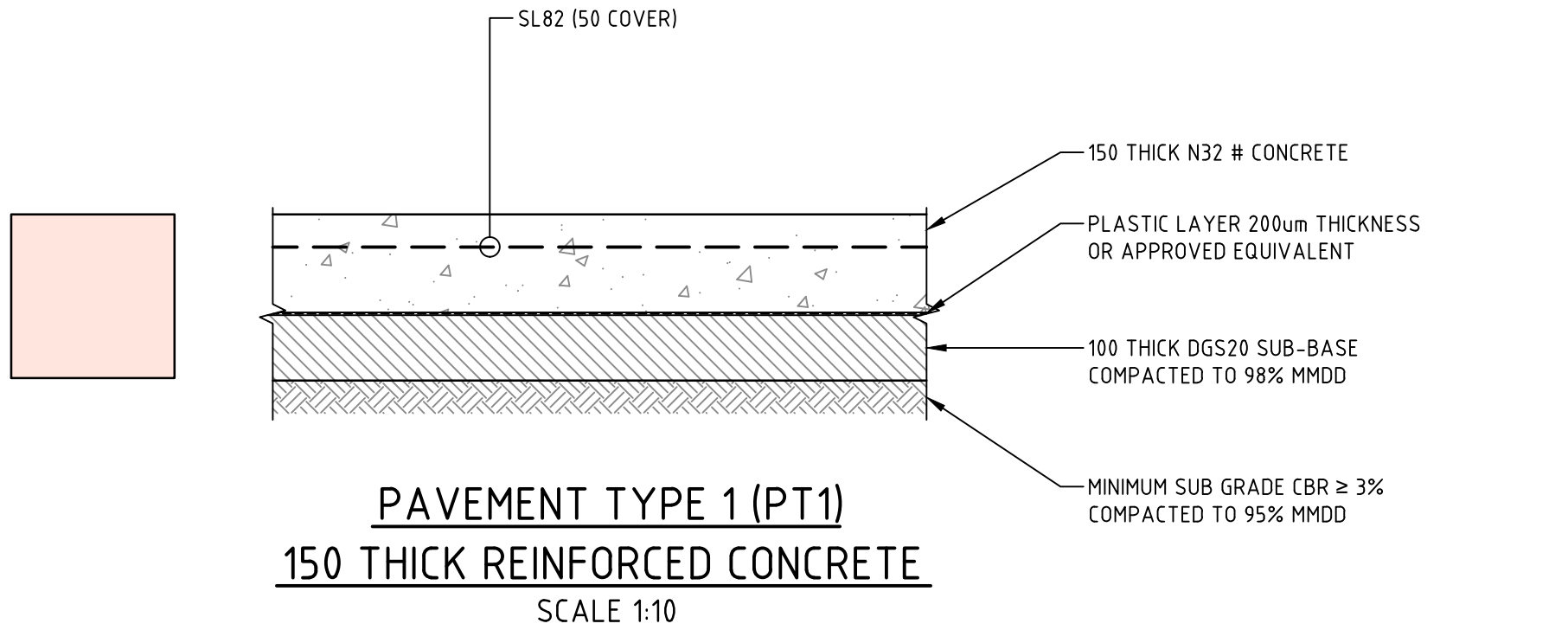
DETAIL A  
SCALE 1:100  
PV-0301



DETAIL B  
SCALE 1:100  
PV-0301

|     |                          |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----|--------------------------|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                          |            |          | <div>Scales</div> <div><div><div>010152025m</div><div>1:500 @ A1</div></div><div><div>North</div><div></div></div></div> <div><div><div><div></div><div>sellick</div><div>consultants</div></div><div>canberra   sydney</div><div>ABN 82 634 296 629</div></div><div><div><div>Client Logo</div><div><div></div><div><div>dna</div><div>ARCHITECTS</div></div></div></div></div><div><div>Status</div><div>NOT FOR CONSTRUCTION</div><div><div><div>Original Size</div><div>A1</div></div><div><div>Drawn By</div><div>DM</div></div><div><div>Drafting Check</div><div>LT</div></div></div><div><div>Date Plotted</div><div>7-Jul-23</div><div><div>Designed By</div><div>LT</div></div><div><div>Design Check</div><div>JM</div></div></div><div><div>Coordinate System</div><div>STROMLO GRID</div><div><div>Approved</div><div>BC</div></div><div><div>Approved Date</div><div></div></div></div><div><div>Height Datum</div><div>AHD</div><div><div>Approved Signature</div><div></div></div></div></div><div><div><div>Project Name and Location</div><div>TOWNHOUSE DEVELOPMENT<br/>LOT 601, GOOGGONG, NSW</div></div><div><div>Drawing Title</div><div>PAVEMENT DRIVEWAY JOINTING<br/>PLAN</div></div><div><div><div>Project Number</div><div>220879</div></div><div><div>Type</div><div>DRG</div></div><div><div>Discipline</div><div>CIV</div></div><div><div>Sub-Discipline</div><div>PV</div></div><div><div>Drg No.</div><div>0321</div></div><div><div>Rev</div><div>C</div></div></div></div></div> |
| C   | FOR DEVELOPMENT APPROVAL | 06.07.2023 | DM       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| B   | FOR DEVELOPMENT APPROVAL | 18.10.2022 | DM       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| A   | FOR REVIEW               | 17.10.2022 | DM       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rev | Description              | Date       | Drawn By |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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**PAVEMENT NOTES**

- # FOR CONCRETE PAVEMENTS SUBJECT TO FORKLIFT LOADS, CONCRETE SHALL BE N40 MPa TO ACHIEVE DURABILITY UNDER THE AUSTRALIAN STANDARD.
- ★ AISE PMB SHALL BE ADDED AT ALL INTERSECTIONS AND ROUNDABOUTS (TO THE TP ON ALL LEGS)
- FOR CONCRETE NOTES REFER GN-0003

**PATH NOTES**

- EXPANSION JOINTS (J16) ARE TO BE SEALED WITH 12mm JOINTEX FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EJ's TO BE LOCATED AT ALL DRAINAGE STRUCTURES (BOTH SIDES). ON TP's OF CURVES AND ELSEWHERE AT MAXIMUM 6.0m CENTRES
- WEAKENED PLANE JOINTS (J8) ARE TO BE 3mm WIDE TO  $\frac{1}{4}$  DEPTH FOR EXTRUDE WORK AND TO THE FULL DEPTH OF FORMED SECTIONS.
- BRUSH FINISH "NON-SKID" TO ALL PRAM RAMPs AND VEHICULAR CROSSINGS. ALL OTHER KERBING OF OPEN DRAINS TO BE STEEL FLOAT FINISHED.
- ALL JOINTS TO BE PERPENDICULAR TO THE PATH EDGE AND FINISHED WITH 5.0mm EDGE TOOL.
- WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING OR ADJACENT PAVEMENT JOINTS.
- ALL SUB-BASE LAYERS SHALL BE FINISHED TO ENSURE A TIGHT LEVEL SURFACE. MAXIMUM DEVIATION IS TO BE 5.0mm OVER A 3.0m STRAIGHT EDGE.
- ALL TEST HOLES IN THE SUB-BASE/ BASE LAYERS ARE TO BE RIPPED AND RE-COMPACTED TO ENSURE A HOMOGENOUS LAYER.
- PATH WIDTH (W) SHALL BE MEASURED FROM THE BACK OF KERB WHEN THE PATH IS DESIGNED TO BE AGAINST THE BACK OF KERB.
- FOR CONCRETE NOTES REFER GN-0003

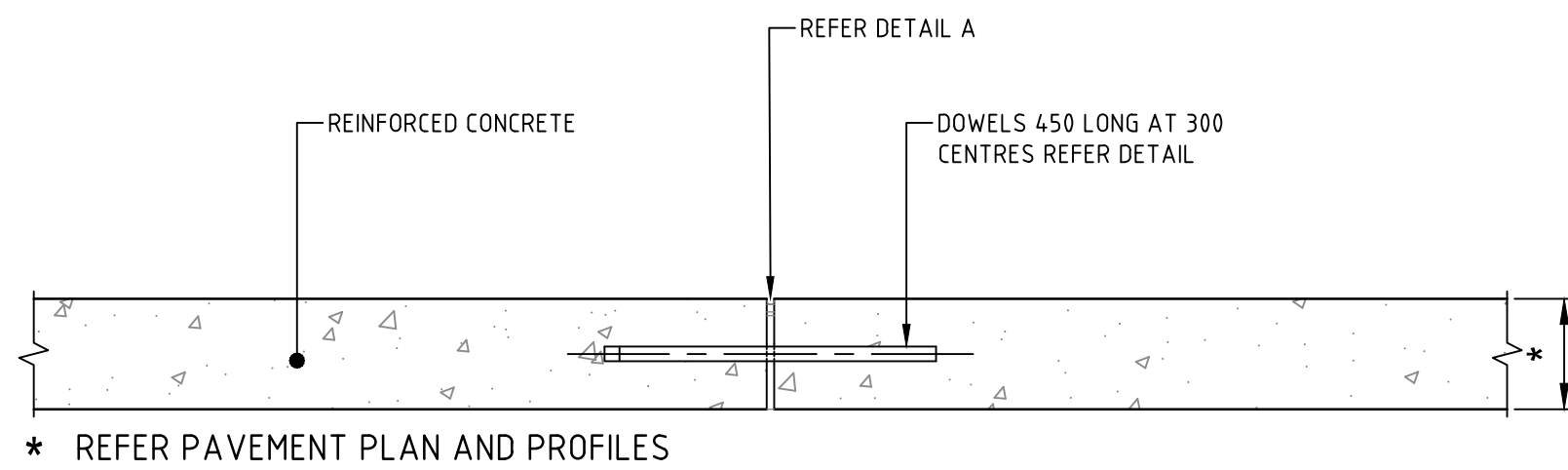
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|     |                          |            |          | Scales                                                                                                                                                                                                                                                                                              | North |  |  | Status            | NOT FOR CONSTRUCTION |                    | Project Name and Location |                |    |                        |        |            |
|     |                          |            |          | 0 2 3 4 5m                                                                                                                                                                                                                                                                                          |       |  |  | Original Size     | A1                   | Drawn By           | DM                        | Drafting Check | LT | LOT 601, GOOGGONG, NSW |        |            |
|     |                          |            |          | 1:100 @ A1                                                                                                                                                                                                                                                                                          |       |  |  | Date Plotted      | 7-Jul-23             | Designed By        | LT                        | Design Check   |    | Drawing Title          |        |            |
|     |                          |            |          |                                                                                                                                                                                                                                                                                                     |       |  |  | Coordinate System | STROMLO GRID         | Approved           | BC                        | Approved Date  |    | PAVEMENT DETAILS       |        |            |
|     |                          |            |          |                                                                                                                                                                                                                                                                                                     |       |  |  | Height Datum      | AHD                  | Approved Signature |                           |                |    | Project Number         | Type   | Discipline |
|     |                          |            |          |                                                                                                                                                                                                                                                                                                     |       |  |  |                   |                      |                    |                           |                |    | 220879                 | DRG    | CIV        |
|     |                          |            |          |                                                                                                                                                                                                                                                                                                     |       |  |  |                   |                      |                    |                           |                |    | Sub-Discipline         | Dr No. | Rev        |
|     |                          |            |          |                                                                                                                                                                                                                                                                                                     |       |  |  |                   |                      |                    |                           |                |    | PV                     | 0331   | C          |
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| B   | FOR DEVELOPMENT APPROVAL | 18.10.2022 | DM       |                                                                                                                                                                                                                                                                                                     |       |  |  |                   |                      |                    |                           |                |    |                        |        |            |
| A   | FOR REVIEW               | 17.10.2022 | DM       |                                                                                                                                                                                                                                                                                                     |       |  |  |                   |                      |                    |                           |                |    |                        |        |            |
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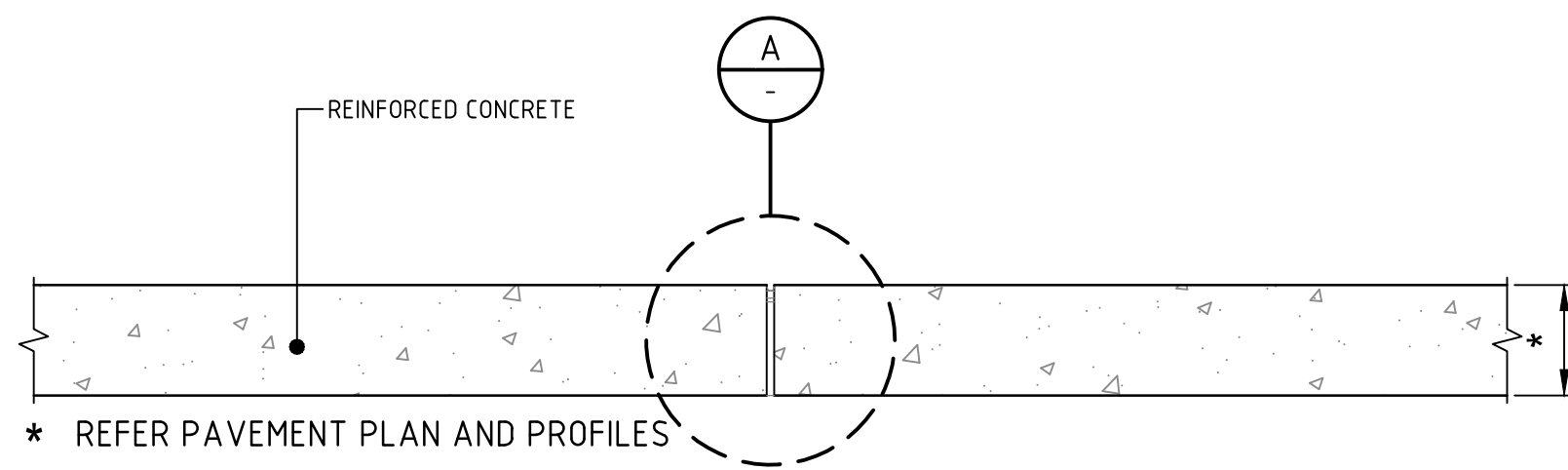
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File Name: P:\2022\220879\_L601-Googong\04\_CAD\4.2\_Drawings\CIV\220879-drg-civ-pv-0333.dwg



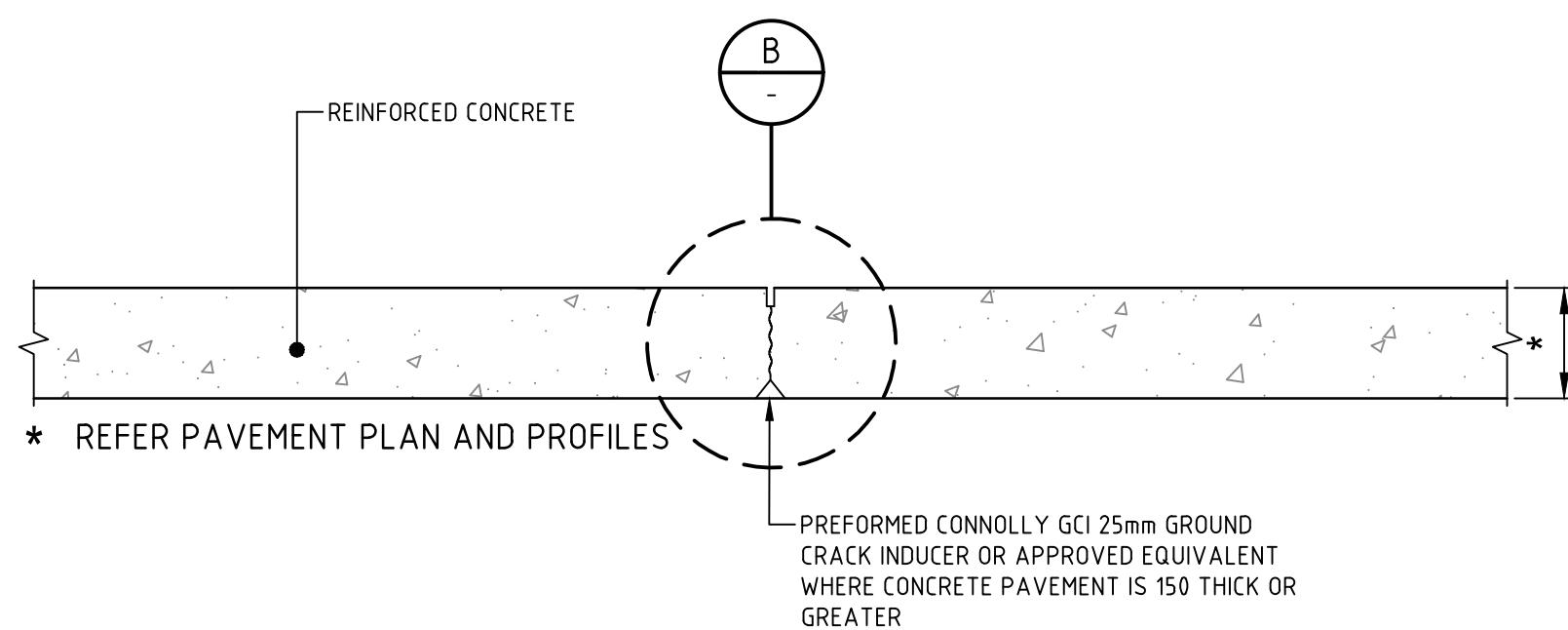
- NOTES:
1. CONNOLLY EXPANSION JOINT ACCEPTED OR APPROVED EQUIVALENT
  2. FOR 175 THICK REINFORCED CONCRETE PAVEMENT, THICKEN EDGE TO 200 FOR USE OF CONNOLLY EXPANSION JOINT. REFER GIVEN DETAIL.

**(J16) DOWELED EXPANSION JOINT**  
SCALE 1:10



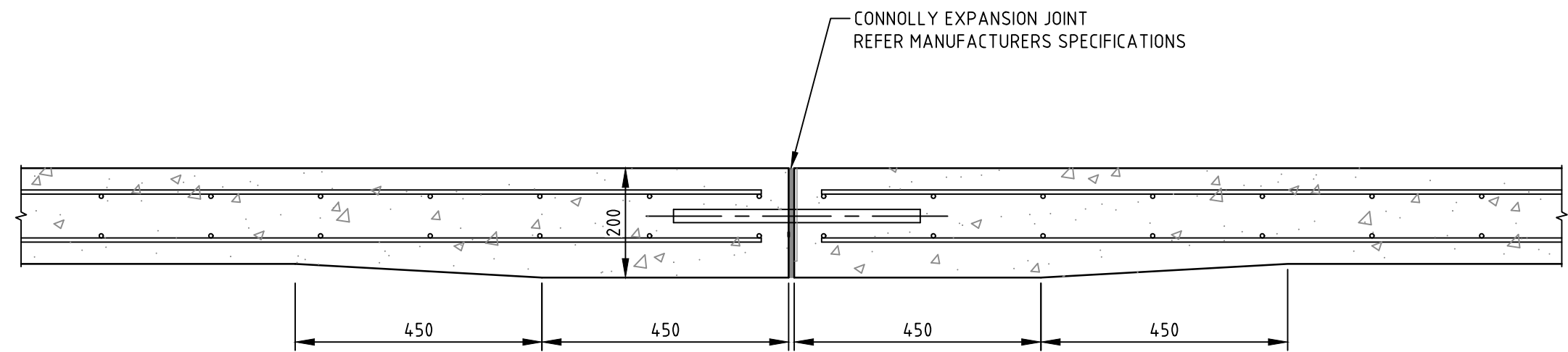
- NOTE:
- CONNOLLY EXPANSION JOINT ACCEPTED OR APPROVED EQUIVALENT

**(J16A) EXPANSION JOINT**  
SCALE 1:10

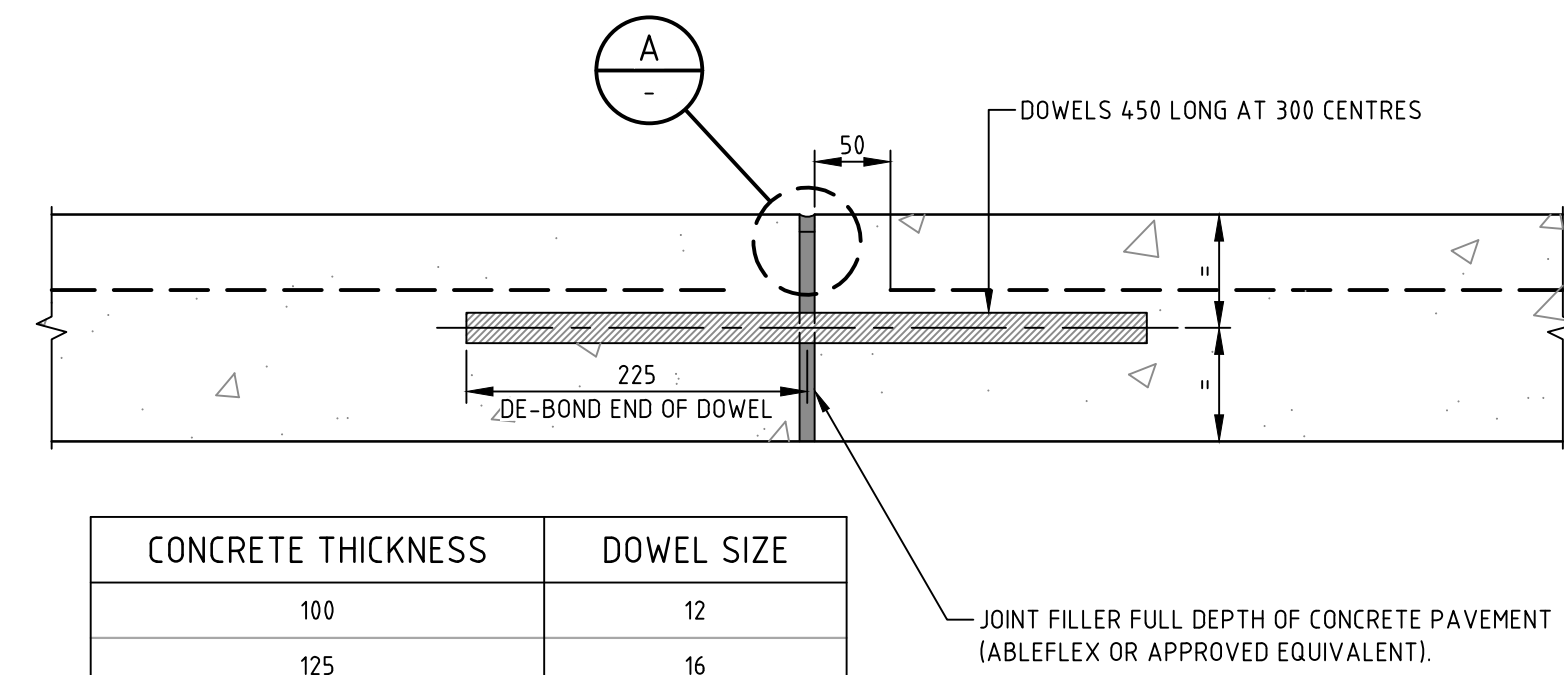


- NOTE:
- CONNOLLY CRACK INDUCED JOINT ACCEPTED OR APPROVED EQUIVALENT

**(J8) CRACK INDUCED JOINT**  
SCALE 1:10

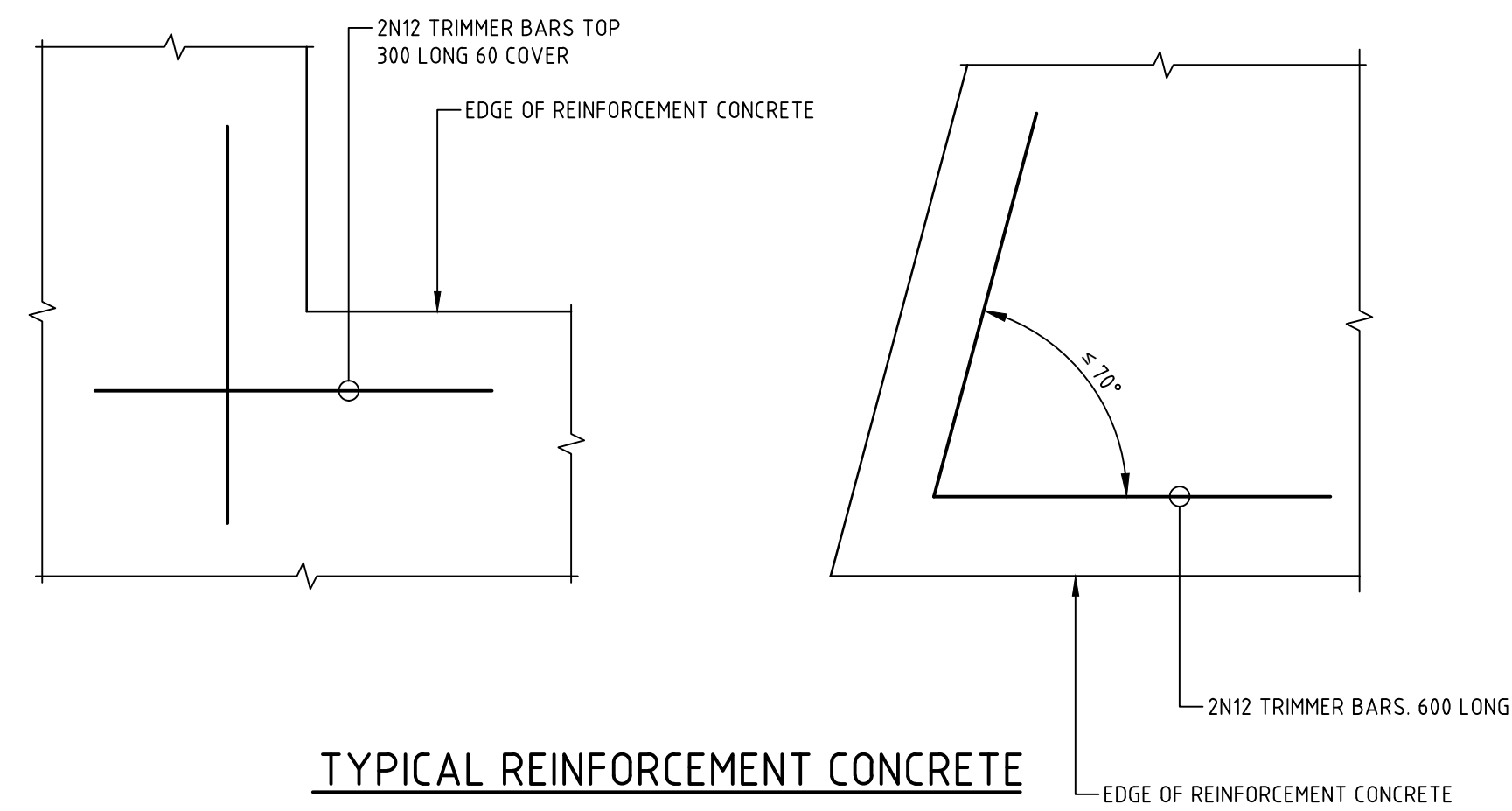


**175 THICK REINFORCED CONCRETE EDGE THICKENING  
FOR THE USE OF CONNOLLY JOINT**  
SCALE 1:5



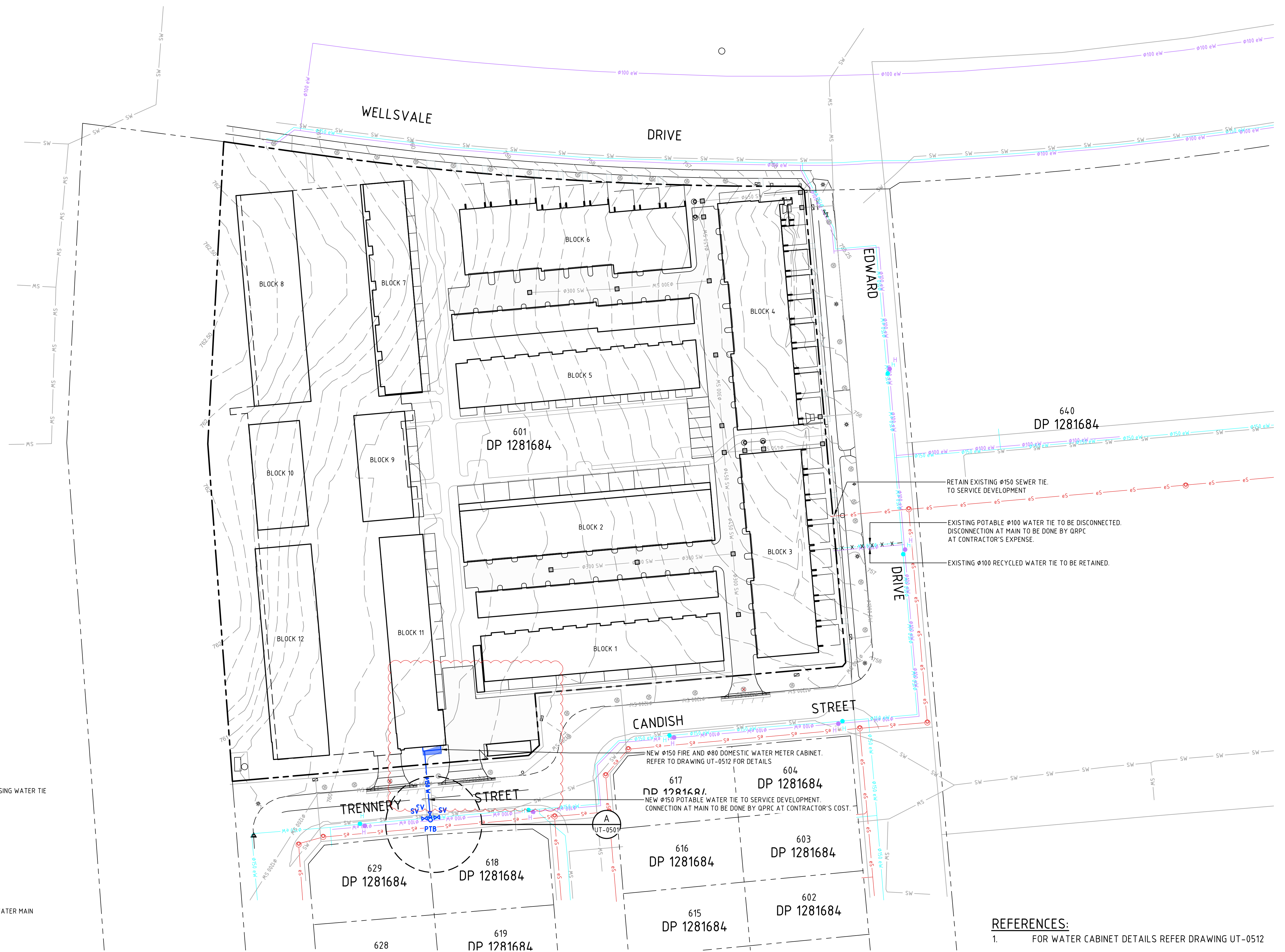
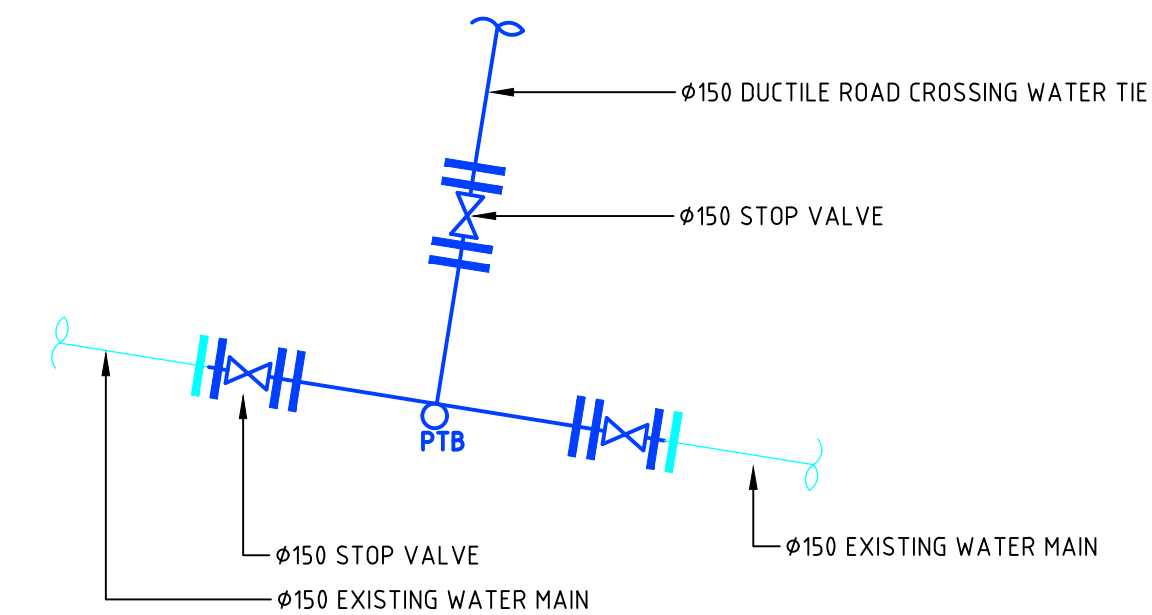
| CONCRETE THICKNESS | DOWEL SIZE |
|--------------------|------------|
| 100                | 12         |
| 125                | 16         |
| 150                | 20         |
| 175                | 24         |
| 200                | 28         |

**DOWEL JOINT DETAIL**  
SCALE 1:5



**TYPICAL REINFORCEMENT CONCRETE  
PAVEMENT ON GROUND**  
SCALE 1:5

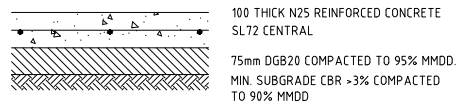
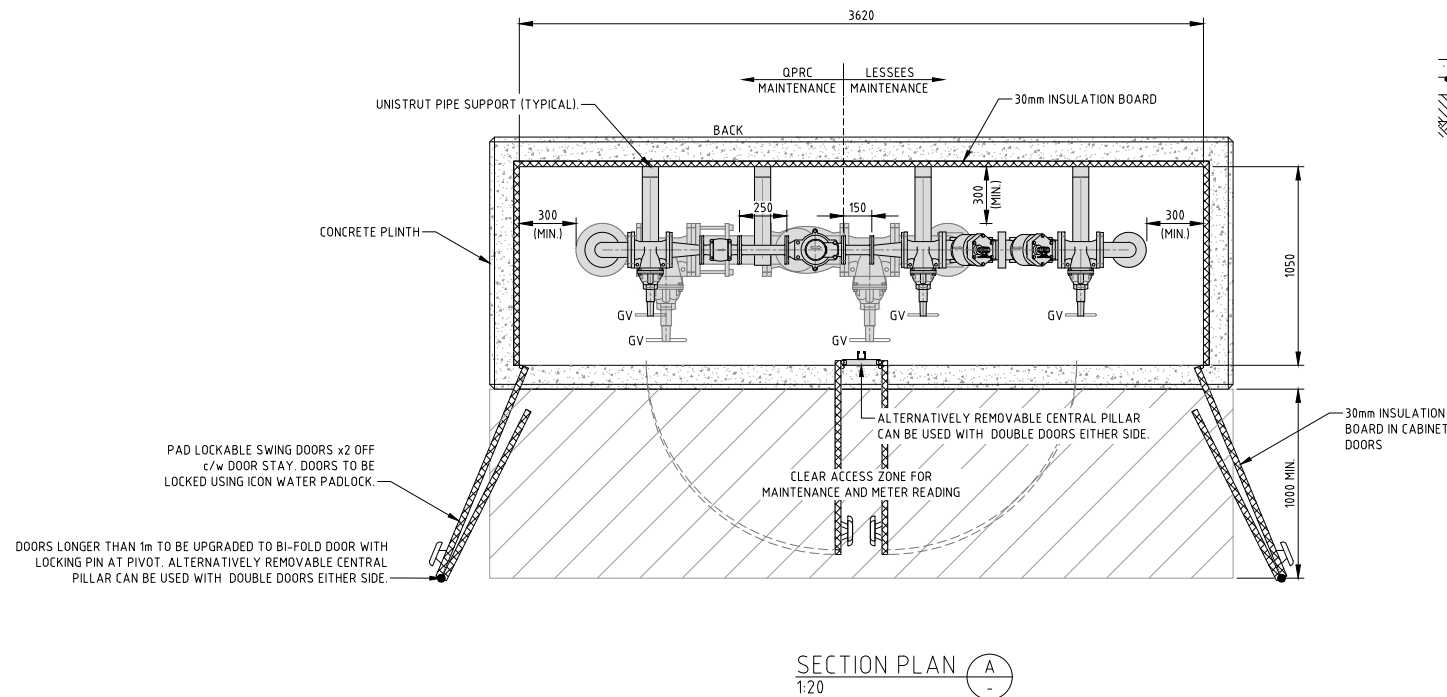
|     |                          |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                          |            |    |   |                          |            |    |   |            |            |    |     |             |      |          |
|-----|--------------------------|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------|------------|----|---|--------------------------|------------|----|---|------------|------------|----|-----|-------------|------|----------|
|     |                          |            |          | <div><div>Scales</div><div><div><div>050100150200250mm</div><div>1:5@A1</div><div>0100200300400500mm</div><div>1:10 @ A1</div></div></div><div>North</div></div> <div><div><div><div><div></div><div></div></div><div><div>sellick</div><div>consultants</div></div></div><div><div>canberra</div><div>sydney</div></div></div><div><div>ABN 82 634 296 629</div></div></div> <div><div>Client Logo</div><div><div><div></div><div></div></div><div><div>dna</div><div>ARCHITECTS</div></div></div></div> <div><div><div>Status</div><div>NOT FOR CONSTRUCTION</div></div><div><div><div>Original Size</div><div>A1</div></div><div><div>Drawn By</div><div>DM</div></div><div><div>Drafting Check</div><div>LT</div></div></div><div><div><div>Date Plotted</div><div>7-Jul-23</div></div><div><div>Designed By</div><div>LT</div></div><div><div>Design Check</div><div></div></div></div><div><div><div>Coordinate System</div><div>STROMLO GRID</div></div><div><div>Approved</div><div>BC</div></div><div><div>Approved Date</div><div></div></div></div><div><div><div>Height Datum</div><div>AHD</div></div><div><div>Approved Signature</div><div></div></div></div></div> <div><div><div>Project Name and Location</div><div>TOWNHOUSE DEVELOPMENT<br/>LOT 601, GOOGGONG, NSW</div></div><div><div>Drawing Title</div><div>PAVEMENT DETAILS<br/>SHEET 3</div></div><div><div><div>Project Number</div><div>220879</div></div><div><div>Type</div><div>DRG</div></div><div><div>Discipline</div><div>CIV</div></div><div><div>Sub-Discipline</div><div>PV</div></div><div><div>Drg No.</div><div>0333</div></div><div><div>Rev</div><div>C</div></div></div></div> <tr><td>C</td><td>FOR DEVELOPMENT APPROVAL</td><td>06.07.2023</td><td>DM</td></tr> <tr><td>B</td><td>FOR DEVELOPMENT APPROVAL</td><td>18.10.2022</td><td>DM</td></tr> <tr><td>A</td><td>FOR REVIEW</td><td>17.10.2022</td><td>DM</td></tr> <tr><td>Rev</td><td>Description</td><td>Date</td><td>Drawn By</td></tr> | C | FOR DEVELOPMENT APPROVAL | 06.07.2023 | DM | B | FOR DEVELOPMENT APPROVAL | 18.10.2022 | DM | A | FOR REVIEW | 17.10.2022 | DM | Rev | Description | Date | Drawn By |
| C   | FOR DEVELOPMENT APPROVAL | 06.07.2023 | DM       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                          |            |    |   |                          |            |    |   |            |            |    |     |             |      |          |
| B   | FOR DEVELOPMENT APPROVAL | 18.10.2022 | DM       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                          |            |    |   |                          |            |    |   |            |            |    |     |             |      |          |
| A   | FOR REVIEW               | 17.10.2022 | DM       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                          |            |    |   |                          |            |    |   |            |            |    |     |             |      |          |
| Rev | Description              | Date       | Drawn By |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                          |            |    |   |                          |            |    |   |            |            |    |     |             |      |          |



1. FOR WATER CABINET DETAILS REFER DRAWING UT-0512

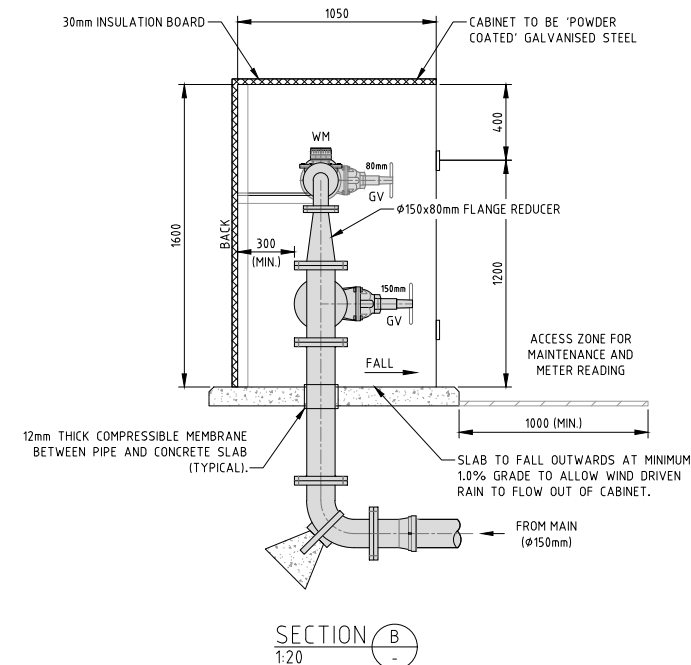
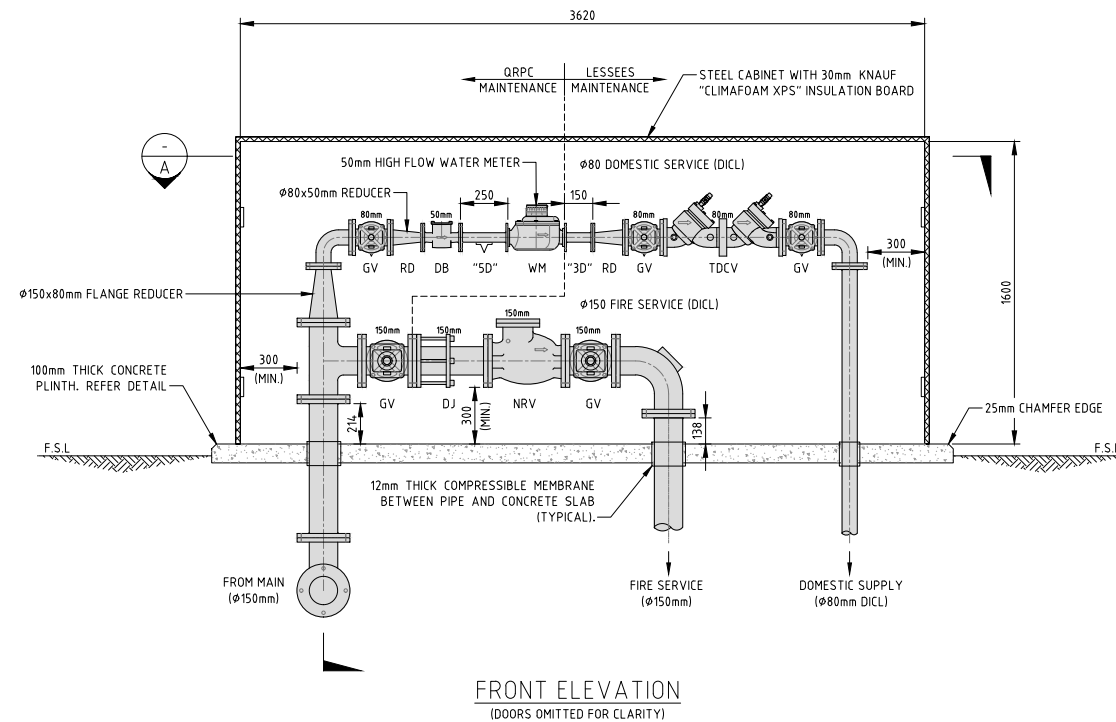
|     |                             |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|-----|-----------------------------|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|     |                             |            |          | <div><div>Scales</div><div><div><div>010152025m</div><div>1:500 @ A1</div></div><div><div>North</div><div></div></div></div></div> <div><div><div><div><div></div><div></div></div><div><div>sellick</div><div>consultants</div></div><div><div>canberra   sydney</div><div>ABN 82 634 296 629</div></div></div><div><div><div>Client Logo</div><div><div><div><div></div><div></div></div><div><div>dna</div><div>ARCHITECTS</div></div></div></div></div></div><div><div><div>Status</div><div>NOT FOR CONSTRUCTION</div><div><div><div>Original Size</div><div>A1</div></div><div><div>Drawn By</div><div>DM</div></div><div><div>Drafting Check</div><div>LT</div></div></div><div><div>Date Plotted</div><div>7-Jul-23</div></div><div><div>Designed By</div><div>LT</div></div><div><div>Design Check</div><div>JM</div></div><div><div>Coordinate System</div><div>STROMLO GRID</div></div><div><div>Approved</div><div>BC</div></div><div><div>Approved Date</div><div></div></div><div><div>Height Datum</div><div>AHD</div></div><div><div>Approved Signature</div><div></div></div></div></div><div><div><div>Project Name and Location</div><div>TOWNHOUSE DEVELOPMENT</div><div>LOT 601, GOOGGONG, NSW</div><div><div>Drawing Title</div><div>UTILITIES PLAN</div><div>SHEET 1</div></div><div><div>Project Number</div><div>220879</div><div><div>Type</div><div>DRG</div><div><div>Discipline</div><div>CIV</div><div><div>Sub-Discipline</div><div>UT</div><div><div>Org No</div><div>0501</div><div>Rev</div><div>D</div></div></div></div></div></div></div></div></div></div> |  |  |  |
| D   | FOR DEVELOPMENT APPROVAL    | 06.07.2023 | DM       | <div>DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK.<br/>COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |
| C   | FOR DEVELOPMENT APPLICATION | 18.10.2022 | DM       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| B   | FOR REVIEW                  | 17.10.2022 | DM       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| A   | FOR DESIGN COORDINATION     | 30.09.2022 | DM       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
| Rev | Description                 | Date       | Drawn By |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |

File Name: P:\2022\220879\_L601-Googong\04\_CAD\4.2\_Drawings\CIV\220879-drg-civ-ut-0512.dwg



#### LEGEND

|       |                              |
|-------|------------------------------|
| ACP   | ASBESTOS CEMENT PIPE         |
| AV    | AIR VALVE                    |
| BV    | BALL VALVE                   |
| BFV   | BUTTERFLY VALVE              |
| CICL  | CAST IRON CEMENT LINED       |
| CTB   | CONCRETE THRUST BLOCK        |
| Cu    | COPPER                       |
| DB    | DIRT BOX                     |
| DI    | DUCTILE IRON                 |
| DICL  | DUCTILE IRON CEMENT LINED    |
| DJ    | DISMANTLING JOINT            |
| FL    | FLANGE PIECE                 |
| FM    | FLOW METER                   |
| F.S.L | FINISHED SURFACE LEVEL       |
| GV    | GATE VALVE                   |
| HC    | HOSE COCK                    |
| HYD   | HYDRANT                      |
| MV    | MASTER VALVE                 |
| NRV   | NON RETURN VALVE             |
| PG    | PRESSURE GAUGE               |
| PLV   | PRESSURE LIMITING VALVE      |
| PRV   | PRESSURE REDUCING VALVE      |
| PTB   | PIERED THRUST BLOCK          |
| RD    | REDUCER                      |
| RPZ   | REDUCED PRESSURE ZONE DEVICE |
| RSR   | RISER                        |
| SC    | STOP COCK                    |
| SP    | SPIGOT                       |
| SOC   | SOCKET                       |
| ST    | IN-LINE STRAINER             |
| SV    | SLUICE VALVE                 |
| SWM   | SUB-WATER METER              |
| TDCV  | TESTABLE DOUBLE CHECK VALVE  |
| TW    | THRUST WALL                  |
| TX    | TRANSMITTER                  |
| WM    | WATER METER                  |
| "3D"  | LENGTH OF PIPING 3xØ         |
| "5D"  | LENGTH OF PIPING 5xØ         |



| Rev | Description                 | Date       | Drawn By |
|-----|-----------------------------|------------|----------|
| C   | FOR DEVELOPMENT APPROVAL    | 06.07.2023 | DM       |
| B   | FOR DEVELOPMENT APPLICATION | 18.10.2022 | DM       |
| A   | FOR REVIEW                  | 17.10.2022 | DM       |

Scales  
0 500 750 1000mm  
1:20 @ A1

North

DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK.  
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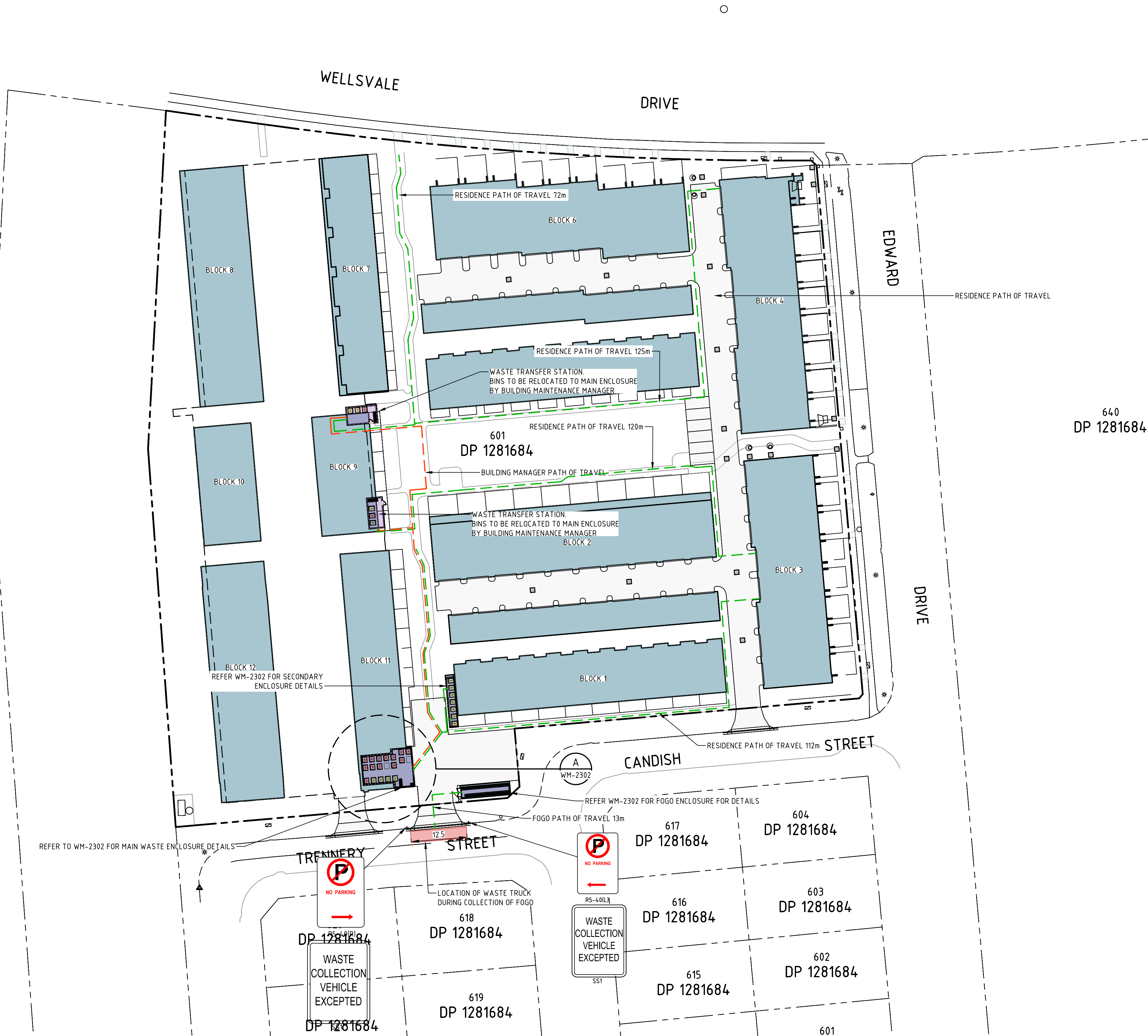
Client Logo



|                   |                      |                    |    |
|-------------------|----------------------|--------------------|----|
| Status            | NOT FOR CONSTRUCTION |                    |    |
| Original Size     | A1                   | Drawn By           | DM |
| Date Plotted      | 7-Jul-23             | Designed By        | LT |
| Coordinate System | STROMLO GRID         | Approved           | BC |
| Height Datum      | AHD                  | Approved Signature |    |

|                           |      |            |                |         |     |
|---------------------------|------|------------|----------------|---------|-----|
| Project Name and Location |      |            |                |         |     |
| TOWNHOUSE DEVELOPMENT     |      |            |                |         |     |
| LOT 601, GOOGGONG, NSW    |      |            |                |         |     |
| Drawing Title             |      |            |                |         |     |
| UTILITIES                 |      |            |                |         |     |
| WATER CABINET DETAILS     |      |            |                |         |     |
| Project Number            | Type | Discipline | Sub-Discipline | Drp No. | Rev |
| 220879                    | DRG  | CIV        | UT             | 0512    | C   |

File Name: P:\2022\220879\_L601-Googong\04\_CAD\4.2\_Drawings\CIV\220879-drg-civ-wm-2301.dwg



|     |  |  |  |                |  |       |  |                                                                                       |  |  |  |                      |  |  |  |                           |  |  |  |  |  |
|-----|--|--|--|----------------|--|-------|--|---------------------------------------------------------------------------------------|--|--|--|----------------------|--|--|--|---------------------------|--|--|--|--|--|
|     |  |  |  | Scales         |  | North |  | Client Logo                                                                           |  |  |  | Status               |  |  |  | Project Name and Location |  |  |  |  |  |
|     |  |  |  | 0 10 15 20 25m |  |       |  |  |  |  |  | NOT FOR CONSTRUCTION |  |  |  | TOWNHOUSE DEVELOPMENT     |  |  |  |  |  |
| C   |  |  |  | 1:500 @ A1     |  |       |  |                                                                                       |  |  |  | Original Size        |  |  |  | LOT 601, GOOGGONG, NSW    |  |  |  |  |  |
| B   |  |  |  |                |  |       |  |                                                                                       |  |  |  | Date Plotted         |  |  |  | Drawing Title             |  |  |  |  |  |
| A   |  |  |  |                |  |       |  |                                                                                       |  |  |  | 7-Jul-23             |  |  |  | WASTE MANAGEMENT PLAN     |  |  |  |  |  |
| Rev |  |  |  | Description    |  | Date  |  | Drawn By                                                                              |  |  |  | Coordinate System    |  |  |  | Project Number            |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  | STROMLO GRID         |  |  |  | 220879                    |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  | Height Datum         |  |  |  | Type                      |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  | AHD                  |  |  |  | DRG                       |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  | Approved Signature   |  |  |  | Discipline                |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  |                      |  |  |  | CIV                       |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  |                      |  |  |  | Sub-Discipline            |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  |                      |  |  |  | WM                        |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  |                      |  |  |  | Drg No.                   |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  |                      |  |  |  | 2301                      |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  |                      |  |  |  | Rev                       |  |  |  |  |  |
|     |  |  |  |                |  |       |  |                                                                                       |  |  |  |                      |  |  |  | C                         |  |  |  |  |  |

1. WASTE ENCLOSURE FLOORS AND HOPPER PADS ARE TO BE CONSTRUCTED OF FORMED CONCRETE WITH SLIP RESISTANCE FINISH.
2. EDGES OF DOORWAYS OR CORNERS OF WALLS WITHIN THE WASTE ENCLOSURE ARE TO BE FITTED WITH GALVANISED STEEL ANGLES.
3. PROTECTIVE STEEL SHEETING MUST BE INSTALLED FLUSH ON THE INSIDE OF ENCLOSURE WALLS.
4. DOORWAYS FOR HOPPER TRANSFER MUST HAVE A MINIMUM CLEAR WIDTH OF 2.5M, UNLESS OTHERWISE APPROVED BY OPRC.
5. DOORWAYS FOR HOPPER TRANSFER MUST HAVE A MINIMUM CLEAR HEIGHT OF 2.5M, UNLESS OTHERWISE APPROVED BY OPRC.
6. DOORS TO THE WASTE ENCLOSURE MUST BE DURABLE AND SELF-CLOSING.
7. WHERE ROLLER DOORS ARE USED THEY MUST HAVE SIGNAGE STATING, "DOOR TO BE KEPT SHUT WHEN NOT IN USE".
8. SUITABLE PROTECTION MUST BE PROVIDED TO ALL FITTINGS OR SERVICES WITHIN THE WASTE ROOM OR AROUND THE DESIGNATED HOPPER PAD TO PREVENT DAMAGE FROM BIN MOVEMENTS.
9. RAILS FOR ROLLER DOORS MUST BE SET INTO THE WALL OR PROTECTED BY BOLLARDS TO PREVENT THEM BEING DAMAGED.
10. ALL DRAINS WITHIN WASTE ENCLOSURE ARE TO BE DESIGNED TO PREVENT THE CATCHING OF BIN WHEELS. SLOTTED GRATES ARE NOT PERMITTED.
11. GRADES INSIDE THE WASTE ENCLOSURE ARE NOT TO EXCEED 2% (1:50) AND FALL TOWARDS AN INTERNAL FLOOR WASTE WITH SILT TRAP (IF PRESENT) OR OTHERWISE THE DOORWAY.
12. GRADES OF THE HOPPER COLLECTION PAD AND THE PATH OF TRAVEL BETWEEN THE HOPPER PAD AND WASTE ROOM ARE NOT TO EXCEED 4.17% (1:24).
13. FINISHED FLOOR LEVEL BETWEEN HOPPER PAD AND WASTE ROOM MUST BE FLUSH WITH NO LIP.
14. ALL COMMERCIAL ENCLOSURES TO INCLUDE ROOF, FLOOR WASTE AND WATER SUPPLY.
15. ALL RESIDENTIAL ENCLOSURES WITHIN THE FABRIC OF THE BUILDING TO INCLUDE FLOOR WASTE AND WATER SUPPLY.
16. ALL BINS PROVIDED FOR THE DEVELOPMENT ARE TO COMPLY WITH AUSTRALIAN STANDARD 4123



WASTE/RECYCLING/FOGO GENERATION RATES ADOPTED FROM TABLE F2: BETTER PRACTICE GUIDE FOR RESOURCE RECOVERY IN RESIDENTIAL DEVELOPMENTS (NSW, EPA 2019)

|     |                             |  |  |            |          |                                                                                                                                               |                                                                                                                         |                             |              |                    |    |                                                                              |    |                                        |  |  |  |  |
|-----|-----------------------------|--|--|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------|--------------------|----|------------------------------------------------------------------------------|----|----------------------------------------|--|--|--|--|
|     |                             |  |  | Scales     | North    | <div><br/>canberra   sydney<br/>ABN 82 634 296 629</div> | <div>Client Logo</div> <div></div> | Status NOT FOR CONSTRUCTION |              |                    |    | Project Name and Location<br>TOWNHOUSE DEVELOPMENT<br>LOT 601, GOOGGONG, NSW |    |                                        |  |  |  |  |
|     |                             |  |  |            |          |                                                                                                                                               |                                                                                                                         | Original Size               | A1           | Drawn By           | DM | Drafting Check                                                               | LT | Drawing Title<br>WASTE MANAGEMENT PLAN |  |  |  |  |
| C   | FOR DEVELOPMENT APPROVAL    |  |  | 06.07.2023 | DM       |                                                                                                                                               |                                                                                                                         | Date Plotted                | 7-Jul-23     | Designed By        | LT | Design Check                                                                 | JM |                                        |  |  |  |  |
| B   | FOR DEVELOPMENT APPLICATION |  |  | 27.04.2023 | DM       |                                                                                                                                               |                                                                                                                         | Coordinate System           | STROMLO GRID | Approved           | BC | Approved Date                                                                |    |                                        |  |  |  |  |
| A   | FOR REVIEW                  |  |  | 17.10.2022 | DM       |                                                                                                                                               |                                                                                                                         | Height Datum                | AHD          | Approved Signature |    |                                                                              |    |                                        |  |  |  |  |
| Rev | Description                 |  |  | Date       | Drawn By |                                                                                                                                               |                                                                                                                         |                             |              |                    |    |                                                                              |    |                                        |  |  |  |  |