



Our Reference: 5837647

6 February 2020

Jennie Mongan  
Beveridge Williams  
1-11 Glenferrie Road  
Malvern VIC 3144

**Dear Jennie**

**PA 2018/6004 Botania Estate Stage 1A – Engineering Plans Approval**

The above mentioned plans, received by Council on 28 January 2020, are approved. Please find attached the approved stamped road & drainage plans.

Council believes the list below represents the latest amended engineering plan submission:

**Project Reference: 1700987**

| <b>Drawing No.</b> | <b>Revision</b> |
|--------------------|-----------------|
| 001 to 002         | P3              |
| 003 and 010        | P4              |
| 011                | P5              |
| 100 to 102         | P3              |
| 200 to 201         | P2              |
| 202 to 203         | P3              |
| 300                | P4              |
| 301 and 350        | P3              |
| 400                | P4              |
| 401 to 402         | P3              |

The approval is subject to compliance of all statutory and legal obligations and granted with the understanding that the engineering consultant, developer and land owner take full responsibility for the design contained in the conditionally approved engineering plans.

**Please note the following:**

- The approval of these plans is valid for one year. Where construction does not commence within that time, the plans must be resubmitted to Council for assessment using applicable engineering standards at the time of resubmission. New plan checking fees will also be applicable.
- No construction works can commence outside the development's property boundaries unless or until consent is provided by the adjoining land owner.

A thriving community  
where everyone belongs

**Civic Centre**  
232 High Street  
Melton VIC 3337

**Postal Address**  
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03 9747 7200  
 [csu@melton.vic.gov.au](mailto:csu@melton.vic.gov.au)  
 [melton.vic.gov.au](http://melton.vic.gov.au)  
 [cityofmelton](https://www.facebook.com/cityofmelton)

- A 'Consent to Work Within a Road Reserve' must be applied for where works will be done on an existing road. The form is available on Melton Council's website link <https://www.melton.vic.gov.au/Services/Building-Planning-Transport/Engineering/Engineering-applications>
- A Traffic Management Plan must be submitted where works will occur on existing roads, and where the works are traffic impact works, it must be approved by Council's Traffic team before works commence. The form is available on Melton Council's website link <https://www.melton.vic.gov.au/Services/Building-Planning-Transport/Engineering/Engineering-applications>
- Construction works must not commence on site until all relevant planning permit conditions have been satisfied. Email queries to [planningsupport@melton.vic.gov.au](mailto:planningsupport@melton.vic.gov.au) T: 9747 7200.
- All Service Authority plans must be approved by the responsible authorities prior to the subbase of the road pavement being constructed. Included plans are:
  - Water main reticulation plans including the location and capacity (pressure and flow) of fire hydrants and hydrant mains;
  - Sewer main reticulation plans;
  - Recycled water reticulation plans (where applicable);
  - Public Lighting plans, utilising Public Lighting Guidelines and form on [www.melton.vic.gov.au/Infrastructure-Planning](http://www.melton.vic.gov.au/Infrastructure-Planning); and
  - Other relevant service plans, as applicable.

The above plans must be submitted in PDF format (one email per type of plan) to [serviceauthority@melton.vic.gov.au](mailto:serviceauthority@melton.vic.gov.au)

- If required as part of the planning permit conditions for the above mentioned project, Construction Environmental Management plans (CEMP) must be submitted to Council *prior* to requesting a Civil Works pre-commencement meeting. Please note that plans should:
  - Include Planning Permit Application and Planning Permit Condition # - PA2018/6004
  - Adhere to requirements of endorsed planning permit conditions.
  - Be simply presented and easy to understand.
  - Include an overall site context plan which shows where the site is located  
*E.g. roads labelled*
  - Address all relevant environmental risks of the works.
  - Include haulage route.
  - **Include statements:**
    - A water truck will be available for dust suppression on site *at all times* and at the direction of the Council Construction Supervisor.
    - Working hours will be 7.00am or sunrise, whichever is the latter to 5.00pm week days.
  - Exclude any reference to use of straw bales, as not best practice.
  - Be In PDF format (to appropriate scale) from original document.  
**Note:** do not scan document into PDF, as can be illegible.

Please submit CEMP with relevant information to Email: [emp@melton.vic.gov.au](mailto:emp@melton.vic.gov.au)

- A Pre-commencement Meeting Application must be emailed to Council to request approval to start work via Email: [construction@melton.vic.gov.au](mailto:construction@melton.vic.gov.au)
- As Constructed (As Con) plans must be received by Council prior to requesting a Practical Completion (PC) Inspection. To proceed, submit a PC Application form to Email: [construction@melton.vic.gov.au](mailto:construction@melton.vic.gov.au)
- Where required by planning permit conditions, A-SPEC digital data should be submitted and *verified* as correct by Council's Asset Management/GIS team prior to the Statement of Compliance (SOC) being issued. Submit A-Spec data to Email: [assetspecs@melton.vic.gov.au](mailto:assetspecs@melton.vic.gov.au)

All correspondence submitted to Council must include a covering letter detailing:

- ✓ Full business name, address, contact name, email and telephone number for responses;
- ✓ Planning Application Number (PA2018/6004);
- ✓ Estate name and Stage # or Project Name and address;
- ✓ Description of submission (E.g. Construction Environmental Management Plan) and any changes/ response to prior Council correspondence;

Submissions should follow processes outlined above and utilise forms on website [www.melton.vic.gov.au/Infrastructure-Planning](http://www.melton.vic.gov.au/Infrastructure-Planning) unless another web link is listed.

Should you have any queries, please contact me at Email: [nihalj@melton.vic.gov.au](mailto:nihalj@melton.vic.gov.au) or T: 9747 7101

Regards,



Nihal Jayasekara  
**DEVELOPMENT ENGINEER**

# BOTANIA ESTATE - STAGE 1A

## GROWLAND

### MELTON COUNCIL

# DETAIL DESIGN PLANS

  
**APPROVED**  
**DETAILED ENGINEERING PLANS**  
**Nihal Jayasekara**  
**ENGINEERING SERVICES**  
**Date: 6/2/2020**

#### CONSTRUCTION NOTES

##### SITE MANAGEMENT

- A1. Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health & Safety Act 2004, including all relevant regulations, have been addressed. In particular, the required notifications must be conveyed to the Victorian Workcover Authority - Health & Safety division with respect to trenching operations. Details of the contractors occupational health & safety procedures must be lodged with the superintendent prior to commencement of works.
- A2. All native trees & shrubs to be retained unless road construction necessitates their removal or removal is directed by the engineer. A town planning permit is required for the removal of native trees & / or vegetation. The removal or retention of any existing trees must be in accordance with the approved landscape plan, or else approval will be required from the Melton City Council landscape approvals officer.
- A3. Existing dam or watercourses to be excavated to a firm base & backfilled as specified. Consulting engineer to be notified when the dam or watercourses are excavated to a firm base. No filling is to be placed prior to dams being inspected & levels taken. Backfilling is to be carried out to the satisfaction of the Council supervising engineer.
- A4. Prior to commencement of works, the contractor must submit a Site Management Plan (SMP) to the consultant for approval. The contractor must comply with the recommendations of the Environment Protection Authority publication No 275 "Construction techniques for sediment pollution control". Appropriate siltation control is to be maintained throughout the construction & maintenance period of the works.
- A5. Provide temporary safety barrier fence (Farm Fence as per MW Std Dwg 72514/203) along extent of outfall drain where the drain is greater than 1.5m in depth & side slopes are steeper than 1 in 3. Safety fence to remain until permanent underground drainage is installed.
- A6. Contractor to remove existing irrigation & drainage pipes & pits encountered on site. Trenches to be backfilled in accordance with notes C2 & C3.

##### GENERAL

- B1. All works to be carried out in accordance with AS2124-1992 general conditions of contract & the Melton City Council current specification & standard drawings & to the satisfaction of the Melton City Council works supervisor.
- B2. Council to be notified two (2) clear days prior to commencement of works.
- B3. Before commencement of works on trenches in excess of 1.5m deep, the civil contractors construction supervisor must give notice in writing of such proposals to Worksafe Victoria in accordance with Part 5.1, Division 4 of the Occupational Health & Safety regulations (2007) & undertake safety precautions in trenching operations in accordance with Workcover's code of practice (1988).
- B4. Lots to be graded (1 in 150 min slope) & left clean to the satisfaction of the engineer. Finished levels to be compatible with lots adjoining this stage.
- B5. On completion the contractor is responsible for the removal of all rubbish & spoil from site. No surplus trees, vegetation or other material is to be burnt on site.
- B6. Reserves to be free draining & to be left in a condition satisfactory to the Melton City Council works supervisor.
- B7. Where works are in the vicinity of existing services these services are to be located & the various authorities notified prior to the commencement of works.
- B8. All TBM's & control points are to be maintained & protected at all times during construction. Should any marks be disturbed, the contractor will immediately notify the consultant to arrange re-instatement at the contractors expense.
- B9. Provide painted paling fence along any boundary common to lots & municipal reserves as per Council Std. Dwg. S-706. Palings to be on the reserve side.

##### ROADWORKS

- C1. 100e agricultural pipe drains (MPA standard drawing EDCM 202) to be placed behind all kerb & channel & buffer pitches & where directed by the engineer.
- C2. Filling in all properties & road reserves is to be carried out using approved clay fill. Top soil & all vegetable matter to be stripped from site prior to filling. All filling to be carried out in accordance with AS3798-2007 and the geotechnical report. Level 1 inspection and testing to be carried out in accordance with AS3798-2007 Section 8.2. A fill report must be submitted to the Consultant, showing from a NATA registered soil testing laboratory.
- C3. Importing Fill:- All imported fill must be tested by a NATA approved laboratory to ensure it is suitable for use on site, & any contaminants are within accepted levels. Under no circumstances should fill material enter or leave the site without the permission of the supervising engineer & Council works supervisor, prior to it being appropriately tested. All vehicles transporting fill material to & from the site must have appropriate measures in place to ensure that material does not get onto roads & into stormwater systems & natural waterways.
- C4. Batters to be 1 in 5 for fill & 1 in 3 for cut unless noted otherwise.
- C5. Cut batters are to be grassed & mulched with a mixture of chopped grass, straw & bitumen emulsion.
- C6. Where cut batters exceed 700mm an additional 300mm berm shall be formed behind footpath.
- C7. Access ramps are to be constructed where cut batters exceed 1.0m. They are to be graded 1 in 10 for the first 2.5m from the back of path & then at a maximum of 1 in 4 to natural surface.
- C8. The water conduit offset from the lot boundary is given on the water reticulation plan. The contractor must construct conduits to accord with the given offset & ensure that the concreter marks the kerb & footpath exactly above the conduit.
- C9. All footpaths are to be 125mm thick 25MPa concrete with SL72 mesh centrally located in accordance with the MPA standard drawing EDCM 401.

- C10. NBN Co to be notified seven (7) days prior to concrete works being placed.
- C11. Electrical distribution pits within footpaths are to be a minimum of 300mm within the edge of the path. Concrete is to be placed around distribution pits to a minimum depth of 200mm.
- C12. All street signs to be constructed & erected to current Melton City Council standards including logo. Court street names are to show court name only.
- C13. Traffic control signs, markings & delineators to be installed in accordance with AS1742.2. All line marking is to be long life road marking, with longitudinal lines in thermoplastic & transverse markings in cold applied.
- C14. Driveways to be constructed in accordance with the MPA standard drawings EDCM 501 & EDCM 502. Single driveways to be a minimum 3.5m wide & to be offset 0.75m from side boundary or easement unless otherwise shown.
- C15. Kerb transition to take place in the minor street over a 2.0m length from either the tangent point or TP pit.
- C16. Existing road works to be reconstructed as required to provide, without discontinuity, a connection in accordance with design levels & grades.
- C17. Provide 2.5m wide shared footpath through reserves as shown on a curvilinear alignment to the satisfaction of the engineer.
- C18. Tactile ground surface indicators (TGS) are to be installed at all pram crossings & pedestrian cross points in accordance with AS1428.4 - 2002 & MPA standard drawing EDCM 403.

##### DRAINAGE

- D1. Drainage & pits to be set out from offsets shown rather than from centreline pipe chainages. Centreline of pits at TP's to be offset 1.00m.
- D2. Terra Firma or fibreglass type pit lids are required for all drainage pits & all grates for pits are to be Class D, to comply with AS3996 unless otherwise shown. All drainage works are to be constructed to council specifications.
- D3. All pipes up to and including 750mm in diameter shall be rubber ring jointed (RRJ). Pipes above this size may be flush jointed with external sealing bands. For pipes greater than 900mm and changes in direction between 2 connecting pipes exceeding 10° construct segmented curves using splayed pipes with bandage joints, having deflections within the manufacturer's specification. All pipes under roadways to be RRJ.
- D4. All pipes to be Class 2 R.C. rubber ring joint unless noted otherwise. PVC pipes to be Class SH unless specified.
- D5. Pipe trenches beneath the road pavement, footpath or within 150mm of the kerb & channel to be backfilled with 20mm Class 3 FCR in 150mm layers.
- D6. Property inlets to be constructed as per MPA standard drawing EDCM 701 - EDCM 704.
- D7. All proposed drainage stubs to be blanked off at end of pipe with timber planks to the satisfaction of the supervising engineer.

##### PAVEMENT

- E1. Modification of the pavement requires approval by the Melton City Council works supervisor.

#### DRAWING INDEX

| DRAWING No.     | TITLE  |
|-----------------|--|
| 1700987-01A-001 | COVER SHEET  |
| 1700987-01A-002 | TYPICAL ROAD CROSS SECTIONS                                    |
| 1700987-01A-003 | PAVEMENT MAKEUP & GENERAL DETAILS                              |
| 1700987-01A-010 | LAYOUT PLAN  |
| 1700987-01A-011 | INTEGRATED WATER MANAGEMENT PLAN                               |
| 1700987-01A-100 | ROAD LONGITUDINAL SECTIONS ELM DRIVE                           |
| 1700987-01A-101 | ROAD LONGITUDINAL SECTIONS LILYBLOOM WAY & AGONIS STREET       |
| 1700987-01A-102 | ROAD LONGITUDINAL SECTIONS GINKGO STREET                       |
| 1700987-01A-200 | ROAD CROSS SECTIONS ELM DRIVE (SHEET 1 OF 2)                   |
| 1700987-01A-201 | ROAD CROSS SECTIONS ELM DRIVE (SHEET 2 OF 2)                   |
| 1700987-01A-202 | ROAD CROSS SECTIONS LILYBLOOM WAY & AGONIS STREET              |
| 1700987-01A-203 | ROAD CROSS SECTIONS GINKGO STREET                              |
| 1700987-01A-300 | INTERSECTION DETAILS (SHEET 1 OF 2)                            |
| 1700987-01A-301 | INTERSECTION DETAILS (SHEET 2 OF 2)                            |
| 1700987-01A-350 | SIGNAGE & LINE MARKING PLANS                                   |
| 1700987-01A-400 | DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 3)                  |
| 1700987-01A-401 | DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 3)                  |
| 1700987-01A-402 | DRAINAGE LONGITUDINAL SECTIONS (SHEET 3 OF 3) AND PIT SCHEDULE |
| 1700987-01A-450 | PLAN OF SUBDIVISION  |



#### SITE PLAN

NOT TO SCALE

MELWAY REF: 355 HS


**PRELIMINARY PRINT**  
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| REV | DESCRIPTION        | DATE     | DRN. | APP. | REV | DESCRIPTION | DATE | DRN. | APP. |
|-----|--------------------|----------|------|------|-----|-------------|------|------|------|
| P3  | ROAD NAMES AMENDED | 30.09.19 | DC   | TN   |     |             |      |      |      |
| P2  | COUNCIL ISSUE      | 10.07.19 | CC   | TN   |     |             |      |      |      |
| P1  | TENDER ISSUE       | 02.06.19 | JM   | TN   |     |             |      |      |      |

| DESIGNED | DATE       | DRAWN    | DATE | APPROVED  | DATE       |
|----------|------------|----------|------|-----------|------------|
| J.MONGAN | 31.10.2018 | J.MONGAN |      | T.NAMAR   | 31.10.2018 |
|          |            |          |      | PS Number | PS823199J  |

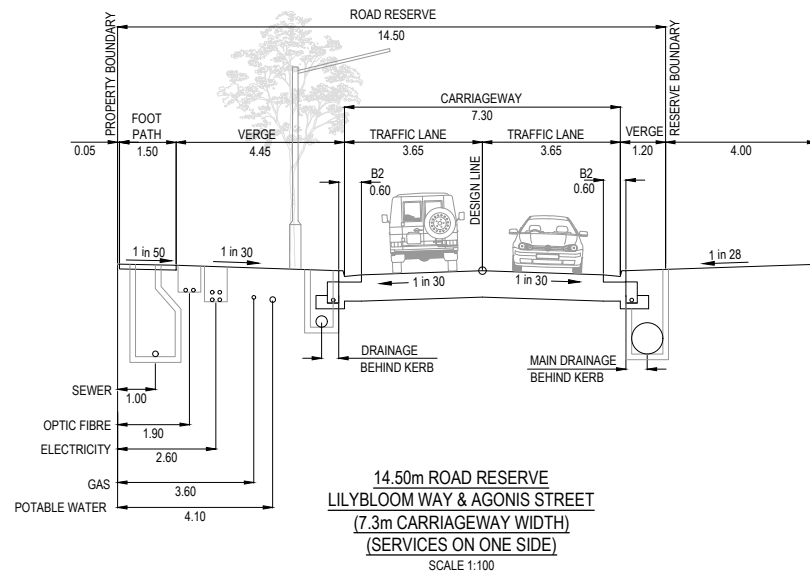
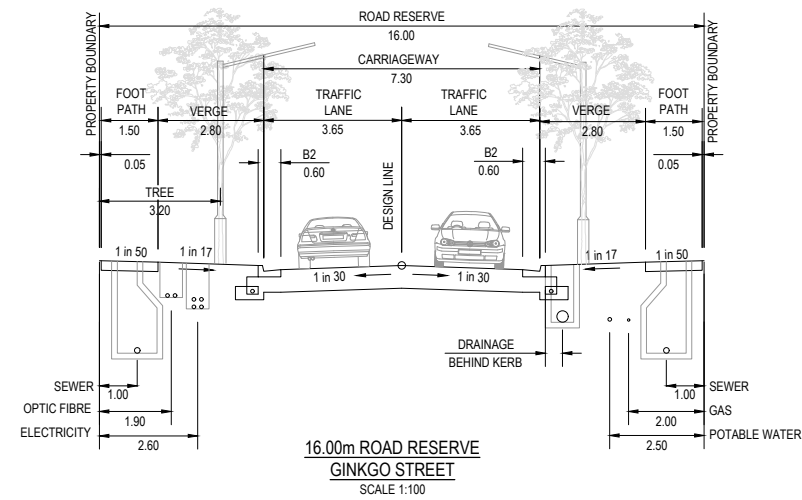
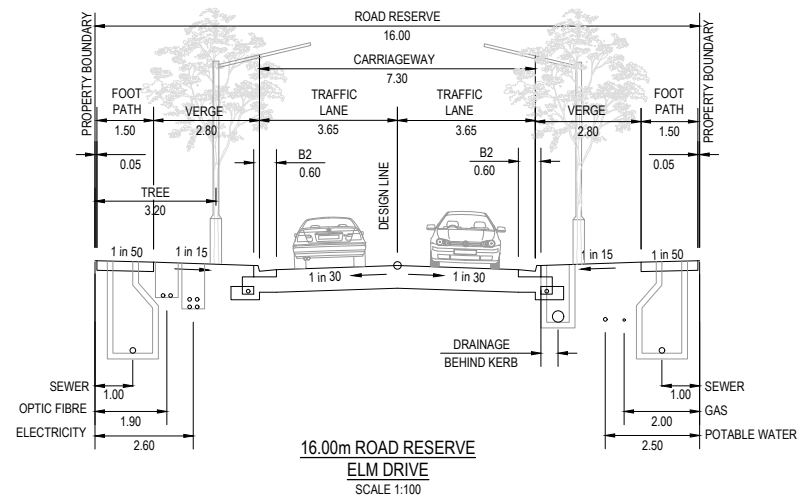

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|                 |  |            |     |
|-----------------|--|------------|-----|
| Project Details | BOTANIA ESTATE<br>STAGE 01A<br>MELTON CITY COUNCIL |            |     |
| Project Ref     | Stage No   | Drawing No | Rev |
| 1700987         | 01A  | 001        | P3  |

|                       |  |   |
|-----------------------|--|---|
| Sheet 01 of 20        |  |  |
| Scale<br>NOT TO SCALE |  |   |



**APPROVED**  
**DETAILED ENGINEERING PLANS**  
**Nihal Jayasekara**  
**ENGINEERING SERVICES**  
**Date: 6/2/2020**



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| REV | DESCRIPTION        | DATE     | DRN. | APP. | REV | DESCRIPTION | DATE | DRN. | APP. |
|-----|--------------------|----------|------|------|-----|-------------|------|------|------|
| P3  | ROAD NAMES AMENDED | 30.09.19 | DC   | TN   |     |             |      |      |      |
| P2  | COUNCIL ISSUE      | 10.07.19 | CC   | TN   |     |             |      |      |      |
| P1  | TENDER ISSUE       | 02.05.19 | JM   | TN   |     |             |      |      |      |

Designed  
 Date  
 Drawn  
 Approved  
 Date  
 PS Number

J.MONGAN  
 31.10.2018  
 J.MONGAN  
 T.NAMAR  
 31.10.2018  
 PS823199J

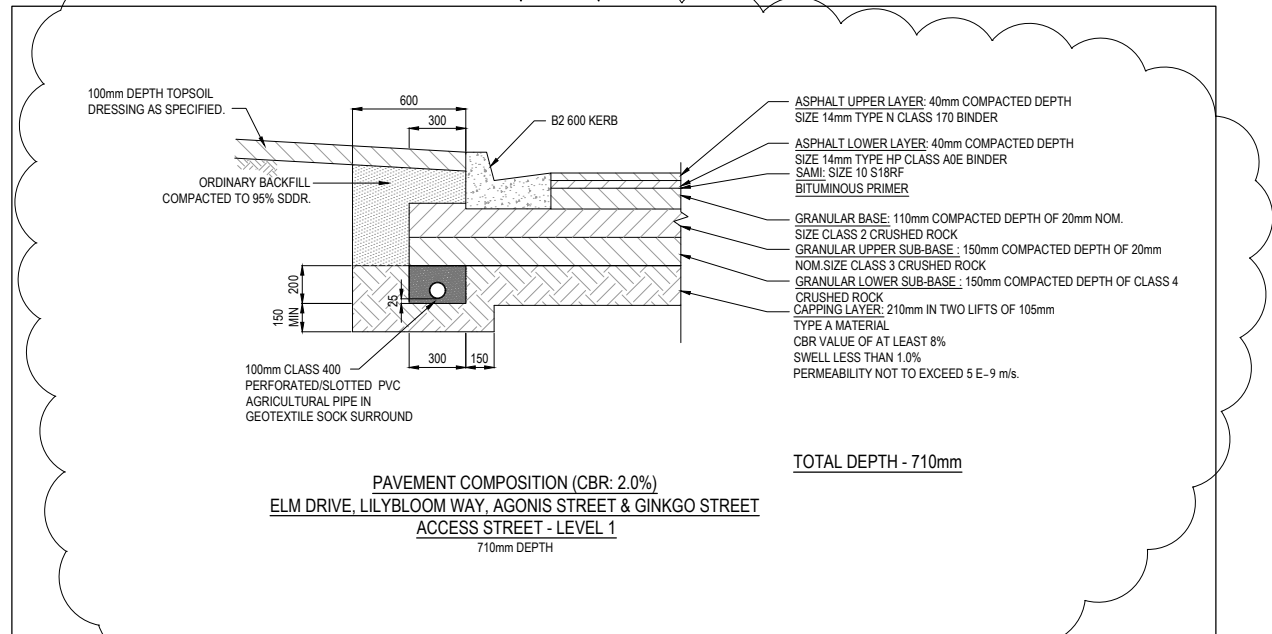


Project Details  
 BOTANIA ESTATE  
 STAGE 01A  
 MELTON CITY COUNCIL  
 Drawing Title  
 TYPICAL ROAD CROSS SECTIONS

Sheet 02 of 20

Scale  
 NOT TO SCALE

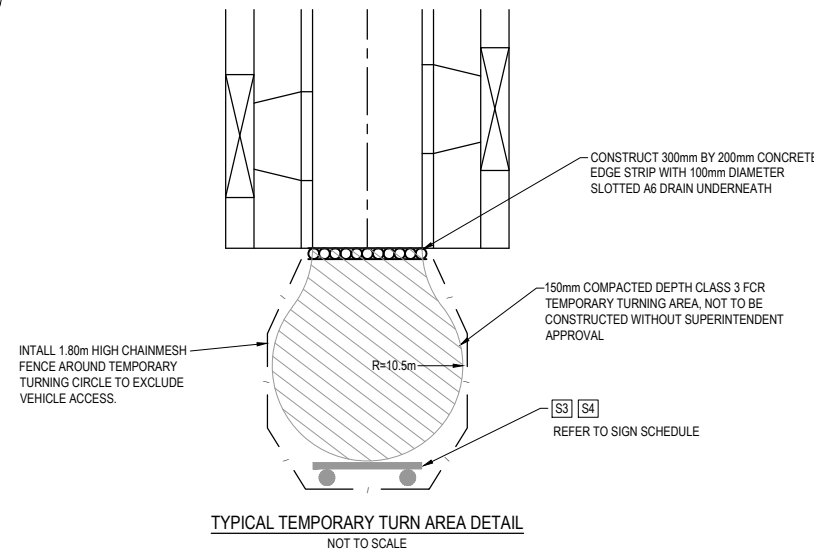
Project Ref  
 1700987  
 Stage No  
 01A  
 Drawing No  
 002  
 Rev  
 P3



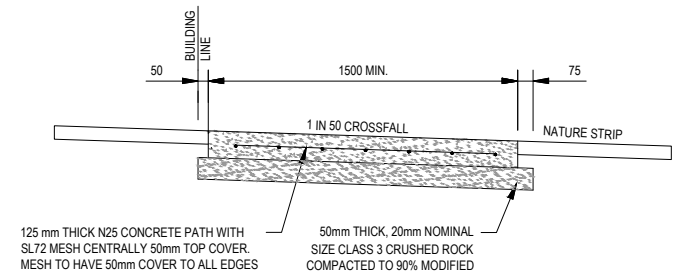
PAVEMENT COMPOSITION (CBR: 2.0%)  
ELM DRIVE, LILYBLOOM WAY, AGONIS STREET & GINKGO STREET  
ACCESS STREET - LEVEL 1  
710mm DEPTH

**SIGN SCHEDULE**

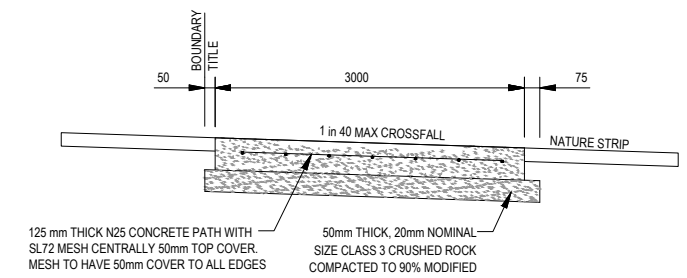
| IDENTIFIER | NUMBER | SIGN |
|------------|--------|------|
| S3         | D4-5   |      |
| S4         | G9-20  |      |



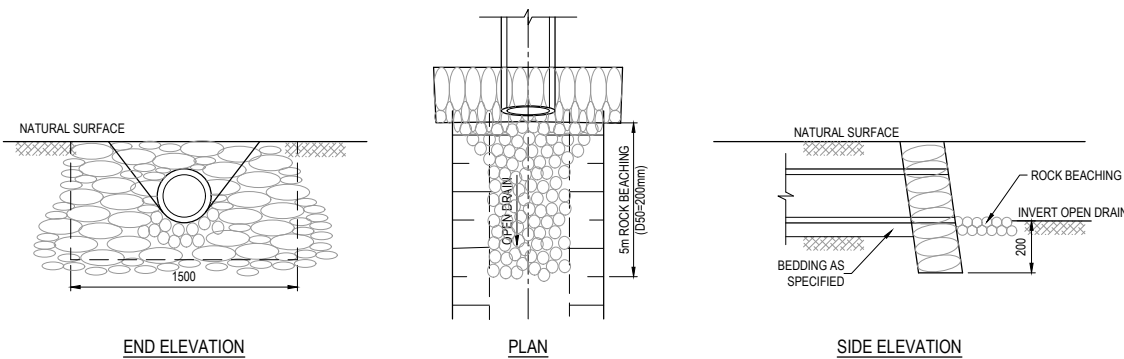
TYPICAL TEMPORARY TURN AREA DETAIL  
NOT TO SCALE



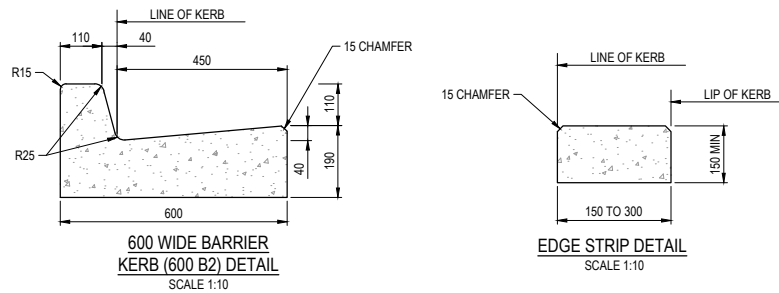
TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION



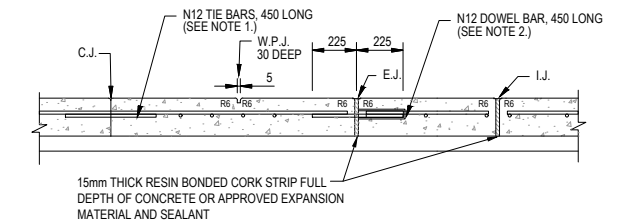
TYPICAL SHARED PATH CROSS SECTION  
NOT TO SCALE



SANDBAG ENDWALL DETAIL  
NOT TO SCALE

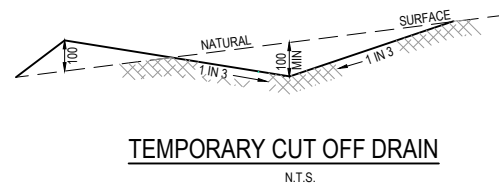


ALL DIMENSIONS IN MILLIMETRES. REFER STANDARD DRAWING EDCM 301 & 302 FOR KERB DETAILS.

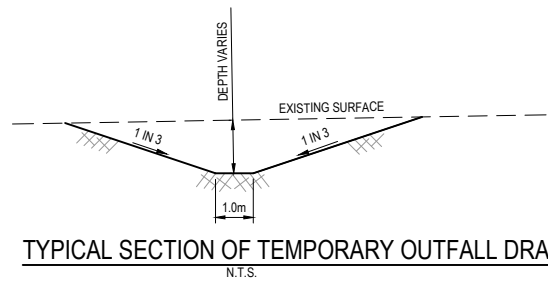


CONSTRUCTION JOINT (C.J.) (NOTE 1)  
CONTROL JOINT / WEAKENED PLANE JOINT (W.P.J.) (NOTE 4)  
EXPANSION JOINT (E.J.) (NOTE 2)  
ISOLATION JOINT (I.J.)

CONCRETE JOINT DETAILS



TEMPORARY CUT OFF DRAIN  
N.T.S.



TYPICAL SECTION OF TEMPORARY OUTFALL DRAIN  
N.T.S.

NOTE:  
MINIMUM LONGITUDINAL GRADE OF 1 IN 300.  
TEMPORARY SWALE TO BE CONSTRUCTED WITH ENVIRONMENTAL CONTROLS, SAFE BATTERS & FENCING, IF REQUIRED.

**CITY OF MELTON**

**APPROVED DETAILED ENGINEERING PLANS**

**Nihal Jayasekara**  
ENGINEERING SERVICES  
Date: 6/2/2020

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| REV | DESCRIPTION             | DATE     | DRN. | APP. | REV | DESCRIPTION | DATE | DRN. | APP. |
|-----|-------------------------|----------|------|------|-----|-------------|------|------|------|
| P4  | ROAD NAMES AMENDED      | 30.09.19 | DC   | TN   |     |             |      |      |      |
| P3  | PAVEMENT DESIGN UPDATED | 22.08.19 | JM   | JM   |     |             |      |      |      |
| P2  | COUNCIL ISSUE           | 10.07.19 | CC   | TN   |     |             |      |      |      |
| P1  | TENDER ISSUE            | 02.05.19 | JM   | TN   |     |             |      |      |      |

Designed Date: J.MONGAN 31.10.2018  
Drawn: J.MONGAN  
Approved Date: T.NAMAR 31.10.2018  
PS Number: PS823199J

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Project Details: BOTANIA ESTATE STAGE 01A MELTON CITY COUNCIL  
Drawing Title: PAVEMENT MAKEUP & GENERAL DETAILS

Sheet 03 of 20  
Scale: NOT TO SCALE  
Project Ref: 1700987 Stage No: 01A Drawing No: 003 Rev: P4



**LEGEND - LAYOUT PLAN**

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- RECYCLED WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- RIDGE LINE
- RETAINING WALL
- ZERO LOT LINES
- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN
- DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN
- "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- TREE PROTECTION ZONE (TPZ)

**CITY OF MELTON**

**APPROVED  
DETAILED ENGINEERING PLANS**  
Nihal Jayasekara  
ENGINEERING SERVICES  
Date: 6/2/2020

**WARNING  
BEWARE OF UNDERGROUND SERVICES**  
The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works  
**DIAL 1100 BEFORE YOU DIG**  
www.1100.com.au

**PRELIMINARY PRINT  
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**SERVICE OFFSET TABLE**

| Location      | Gas  |            | Water |            | Electricity |            | Telecommunication |            | Sewer |            | Branch Sewer |            |
|---------------|------|------------|-------|------------|-------------|------------|-------------------|------------|-------|------------|--------------|------------|
|               | Side | Offset (m) | Side  | Offset (m) | Side        | Offset (m) | Side              | Offset (m) | Side  | Offset (m) | Side         | Offset (m) |
| LILYBLOOM WAY | N    | 3.60       | N     | 4.10       | N           | 2.60       | N                 | 1.90       | N     | 1.00       | -            | -          |
| AGONIS STREET | N    | 3.60       | N     | 4.10       | N           | 2.90       | N                 | 2.20       | N     | 1.00       | -            | -          |
| ELM DRIVE     | E    | 2.00       | E     | 2.50       | W           | 2.60       | W                 | 1.90       | E     | 1.00       | W            | 1.00       |
| GINKGO STREET | N    | 2.00       | N     | 2.50       | S           | 2.60       | S                 | 1.90       | N & S | 1.00       | -            | -          |

NOTE: STREET TREES ARE TO BE PLANTED IN THE CENTRE OF ALL NATURE STRIPS

**ROAD LAYOUT TABLE**

| Road Name     | Road Classification | Reserve Width (m) | Road Width (m) |            |              | Kerb Type |          | Verge Width (m) |          |
|---------------|---------------------|-------------------|----------------|------------|--------------|-----------|----------|-----------------|----------|
|               |                     |                   | Lip to Lip     | Inv to Inv | Back to Back | Nth/West  | Sth/East | Nth/West        | Sth/East |
| LILYBLOOM WAY | ACCESS ROAD         | 14.50             | 6.40           | 7.30       | 7.60         | 600 B2    | 600 B2   | 4.45            | 1.20     |
| AGONIS STREET | ACCESS ROAD         | 14.50             | 6.40           | 7.30       | 7.60         | 600 B2    | 600 B2   | 4.45            | 1.20     |
| ELM DRIVE     | ACCESS ROAD         | 16.00             | 6.40           | 7.30       | 7.60         | 600 B2    | 600 B2   | 2.80            | 2.80     |
| GINKGO STREET | ACCESS ROAD         | 16.00             | 6.40           | 7.30       | 7.60         | 600 B2    | 600 B2   | 2.80            | 2.80     |

| REV | DESCRIPTION                                      | DATE     | DRN. | APP. | REV | DESCRIPTION | DATE | DRN. | APP. |
|-----|--|----------|------|------|-----|-------------|------|------|------|
| P4  | ROAD NAMES AMENDED                               | 30.09.19 | DC   | TN   |     |             |      |      |      |
| P3  | BOLLARD NOTE UPDATED, DRAINAGE ALIGNMENT AMENDED | 22.08.19 | JM   | JM   |     |             |      |      |      |
| P2  | COUNCIL ISSUE                                    | 10.07.19 | CC   | TN   |     |             |      |      |      |
| P1  | TENDER ISSUE                                     | 02.06.19 | JM   | TN   |     |             |      |      |      |

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| Date      | 31.10.2018 |
| Drawn     | J.MONGAN   |
| Approved  | T.NAMAR    |
| Date      | 31.10.2018 |
| PS Number | PS823199J  |

**BW Beveridge Williams**

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Project Details  
**BOTANIA ESTATE  
STAGE 01A  
MELTON CITY COUNCIL**

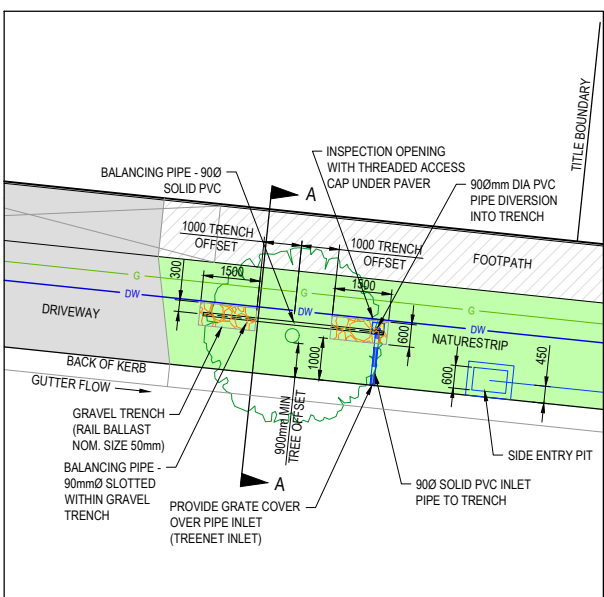
Drawing Title  
**LAYOUT PLAN**

Sheet 04 of 20

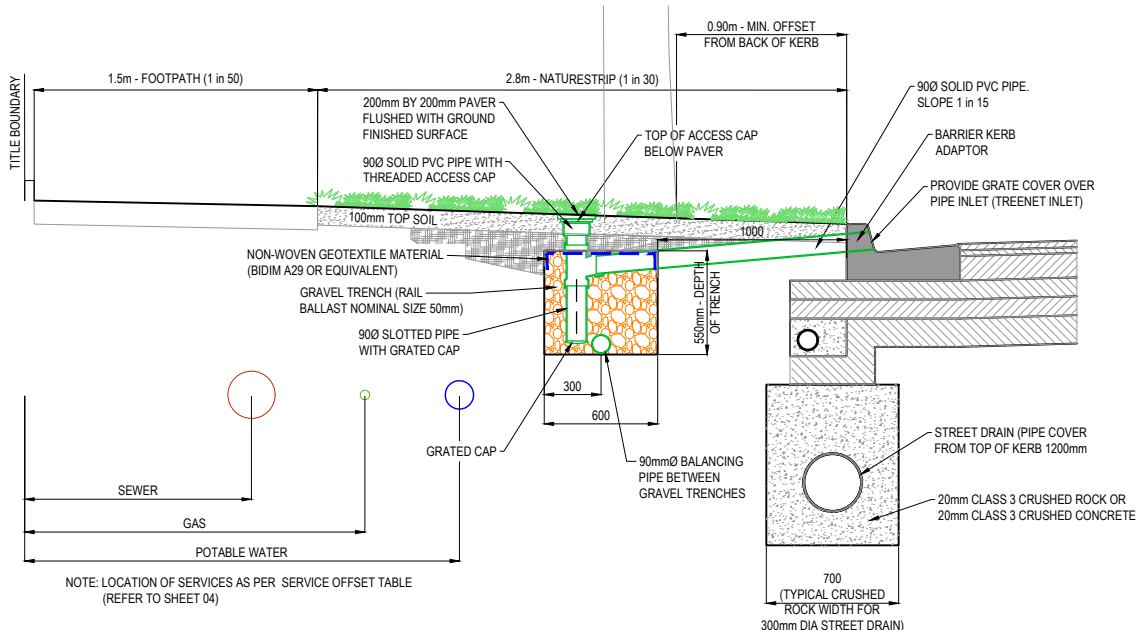
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Project Ref Stage No Drawing No Rev  
**1700987 01A 010 P4**

  
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**Nihal Jayasekara**  
**ENGINEERING SERVICES**  
**Date: 6/2/2020**



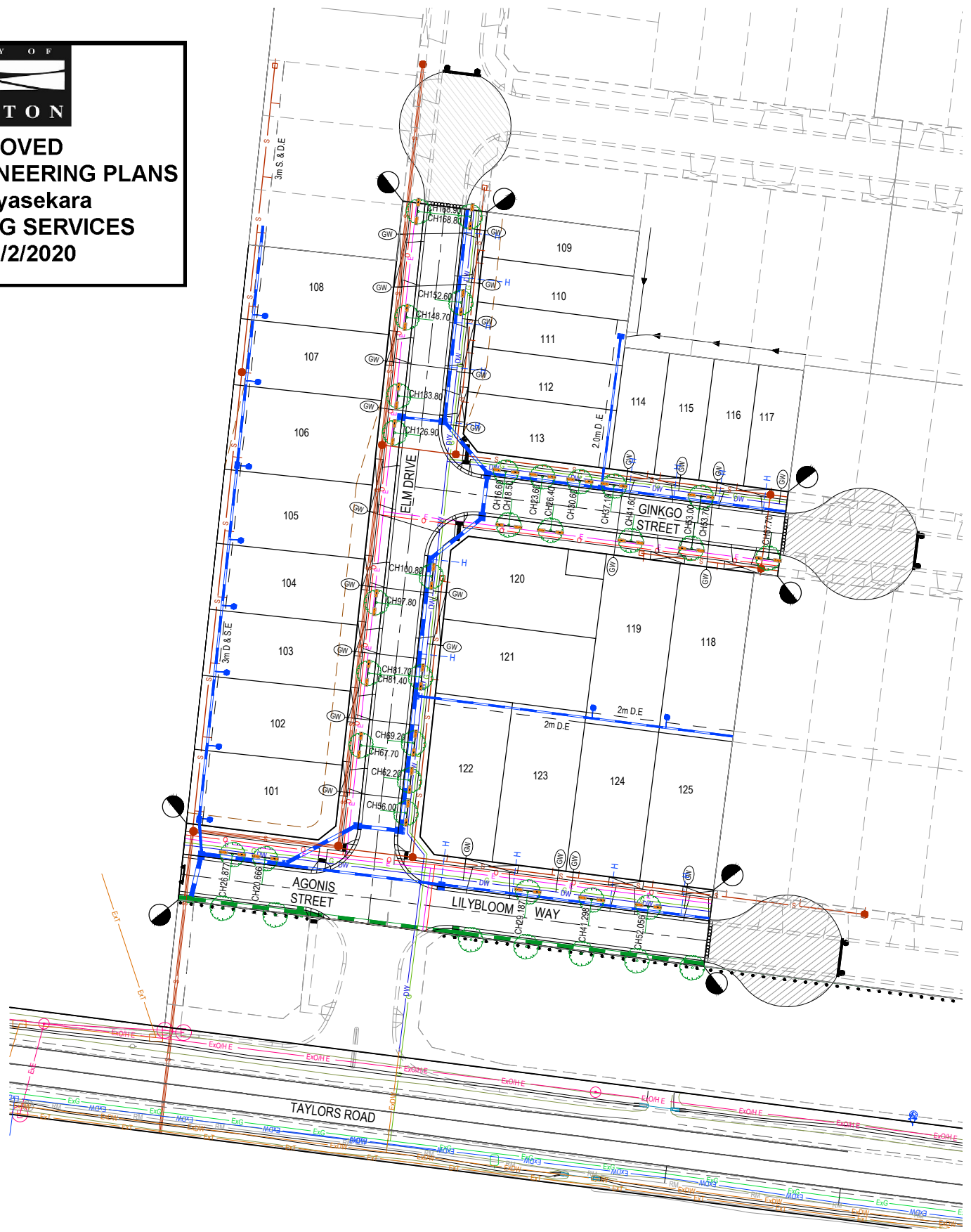
**PASSIVE STREET TREE IRRIGATION GRAVEL TRENCH**  
**(KERB INLET DIVERSION)**  
**PLAN**  
**N.T.S.**



**PASSIVE STREET TREE IRRIGATION GRAVEL TRENCH**  
**(KERB INLET DIVERSION)**  
**CROSS SECTION A-A**  
**N.T.S.**

| NATURESTRIP WIDTH (m) | GRAVEL TRENCH OFFSET FROM BACK OF KERB (mm) |
|-----------------------|---|
| ≤ 2.50                | 700   |
| 2.80                  | 800   |
| ≥ 4.35                | 1000  |

- GENERAL NOTES**
- AT HIGHLY CONSTRAINED SITES, GRAVEL TRENCHES CAN BE MODIFIED IN THE FOLLOWING WAYS:
    - REDUCED OFFSET OF 0.75m FROM TREE CENTRELINE
    - DIMENSION 1.0m LONG x 0.6m WIDE x 0.75m DEEP
    - NATURESTRIP ≤ 2.5m DIMENSION CAN BE 1.5m LONG x 0.4m WIDE x 0.75m DEEP
- NOTES:**
- FOR PASSIVE STREET TREE IRRIGATION DETAIL REFER TO MELTON CITY COUNCIL STANDARD DRAWING: PASSIVE STREET TREE IRRIGATION GRAVEL TRENCH (KERB INLET DIVERSION)
  - PASSIVE IRRIGATION PIPES AND FITTINGS TO BE Ø90mm PVC SEWER CLASS
  - ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT
  - ALL GRASSED AREAS TO BE TOP DRESSED WITH 100mm TOPSOIL AND SEEDED AS SPECIFIED



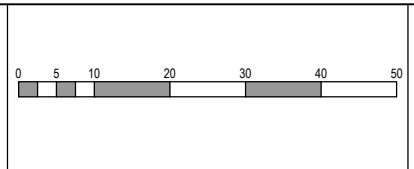
**LEGEND - LAYOUT PLAN**

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- RECYCLED WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- RIDGE LINE
- RETAINING WALL
- ZERO LOT LINES
- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- TREE PROTECTION ZONE (TPZ)
- PASSIVE STREET TREE IRRIGATION

**WARNING**  
**BWARE OF UNDERGROUND SERVICES**  
 The locations of underground services are approximate only and their exact position should be proven on site.  
 No guarantee is given that all existing services are shown.  
 Locate all underground services before commencement of works  
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|-----|---|----------|--------|------|-----|-------------|------|------|------|
| P5  | TREE LOCATIONS AMENDED TO MATCH LANDSCAPE | 28.01.20 | JM     | JM   |     |             |      |      |      |
| P4  | STREET TREE RELOCATION                    | 03.10.19 | M.F.J. | TN   |     |             |      |      |      |
| P3  | ROAD NAMES AMENDED                        | 30.09.19 | DC     | TN   |     |             |      |      |      |
| P2  | COUNCIL ISSUE                             | 10.07.19 | CC     | TN   |     |             |      |      |      |
| P1  | TENDER ISSUE                              | 02.06.19 | JM     | TN   |     |             |      |      |      |



Designed: J.MONGAN  
 Date: 31.10.2018  
 Drawn: J.MONGAN  
 Approved: T.NAMAR  
 Date: 31.10.2018  
 PS Number: PS823199J



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Project Details: BOTANIA ESTATE  
 STAGE 01A  
 MELTON CITY COUNCIL  
 Drawing Title: INTEGRATED WATER MANAGEMENT PLAN

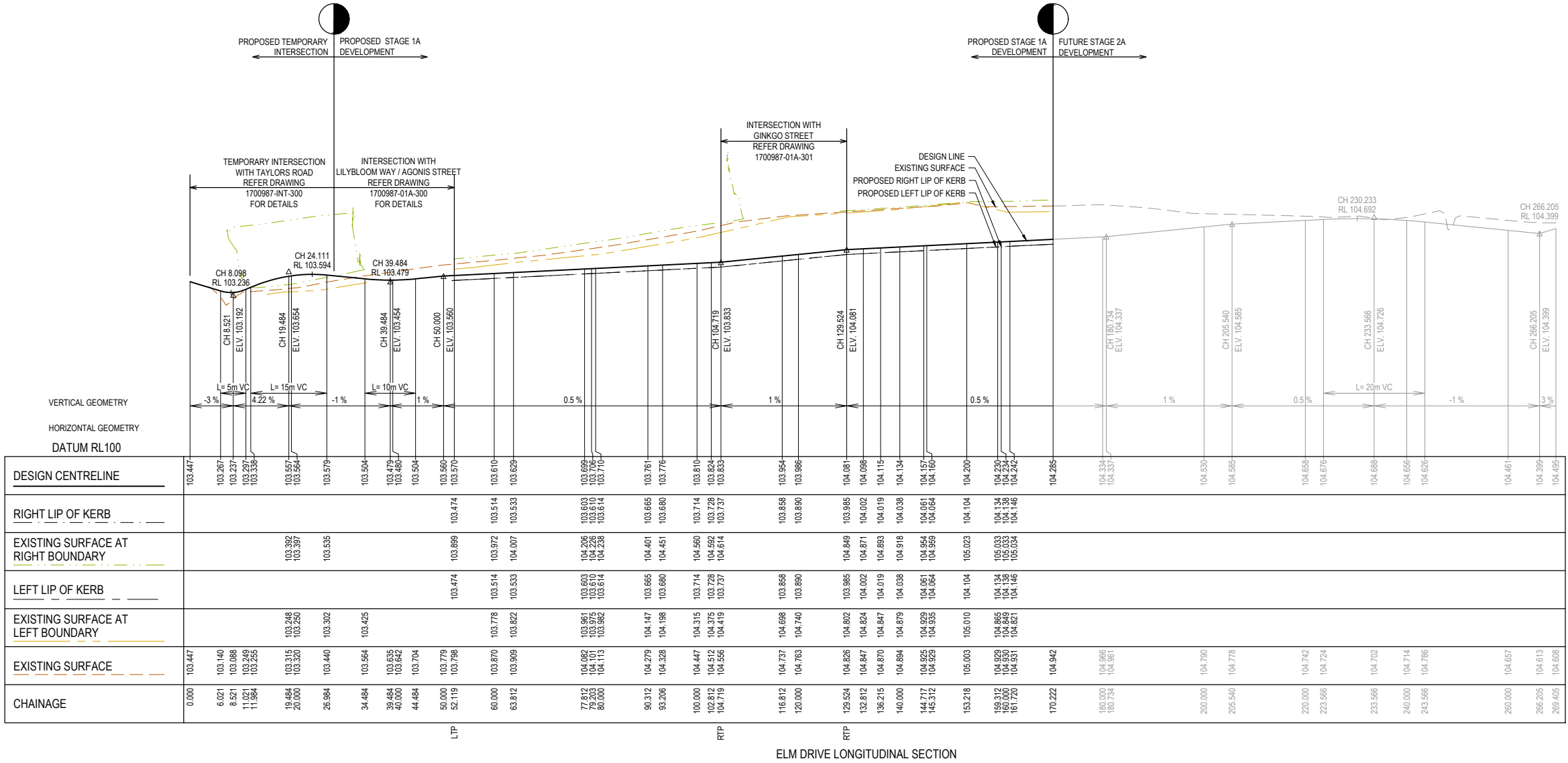
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 Stage No: 01A  
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 Rev: P5

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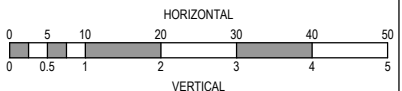
  
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 Nihal Jayasekara  
 ENGINEERING SERVICES  
 Date: 6/2/2020

| LEGEND |                     |
|--------|---------------------|
|        | EXISTING SURFACE    |
|        | DESIGN LINE         |
|        | FUTURE DESIGN LINE  |
|        | RIGHT BUILDING LINE |
|        | RIGHT LIP OF KERB   |
|        | LEFT BUILDING LINE  |
|        | LEFT LIP OF KERB    |



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|-----|--------------------|----------|-----|-----|-----|-------------|------|-----|-----|
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| P2  | COUNCIL ISSUE      | 10.07.19 | CC  | TN  |     |             |      |     |     |
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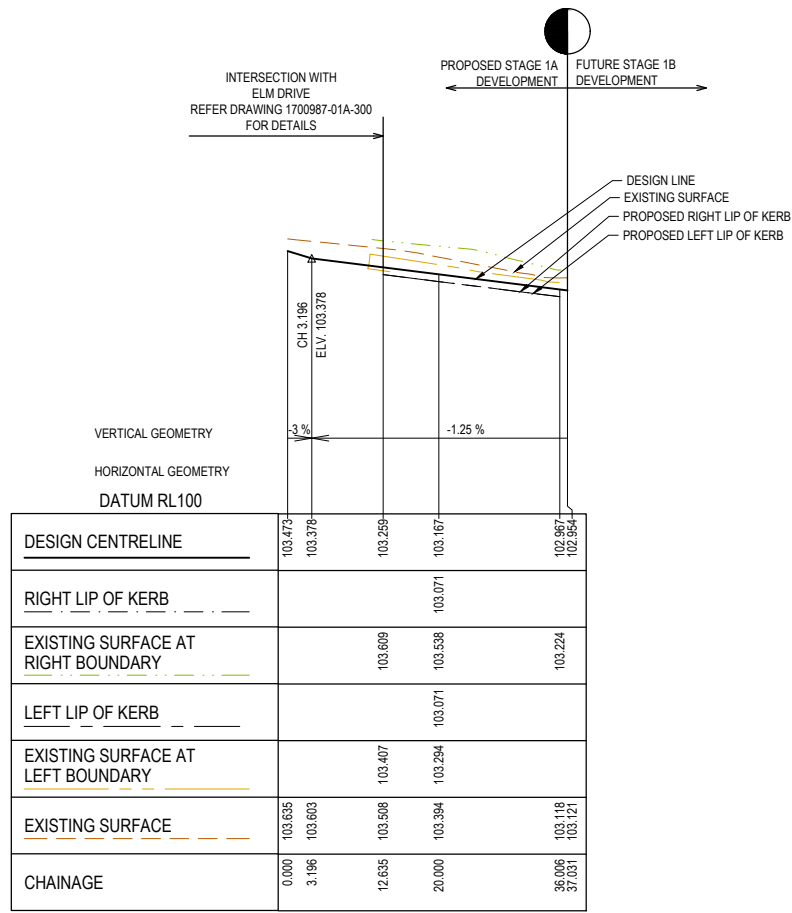
Designed Date: J.MONGAN 31.10.2018  
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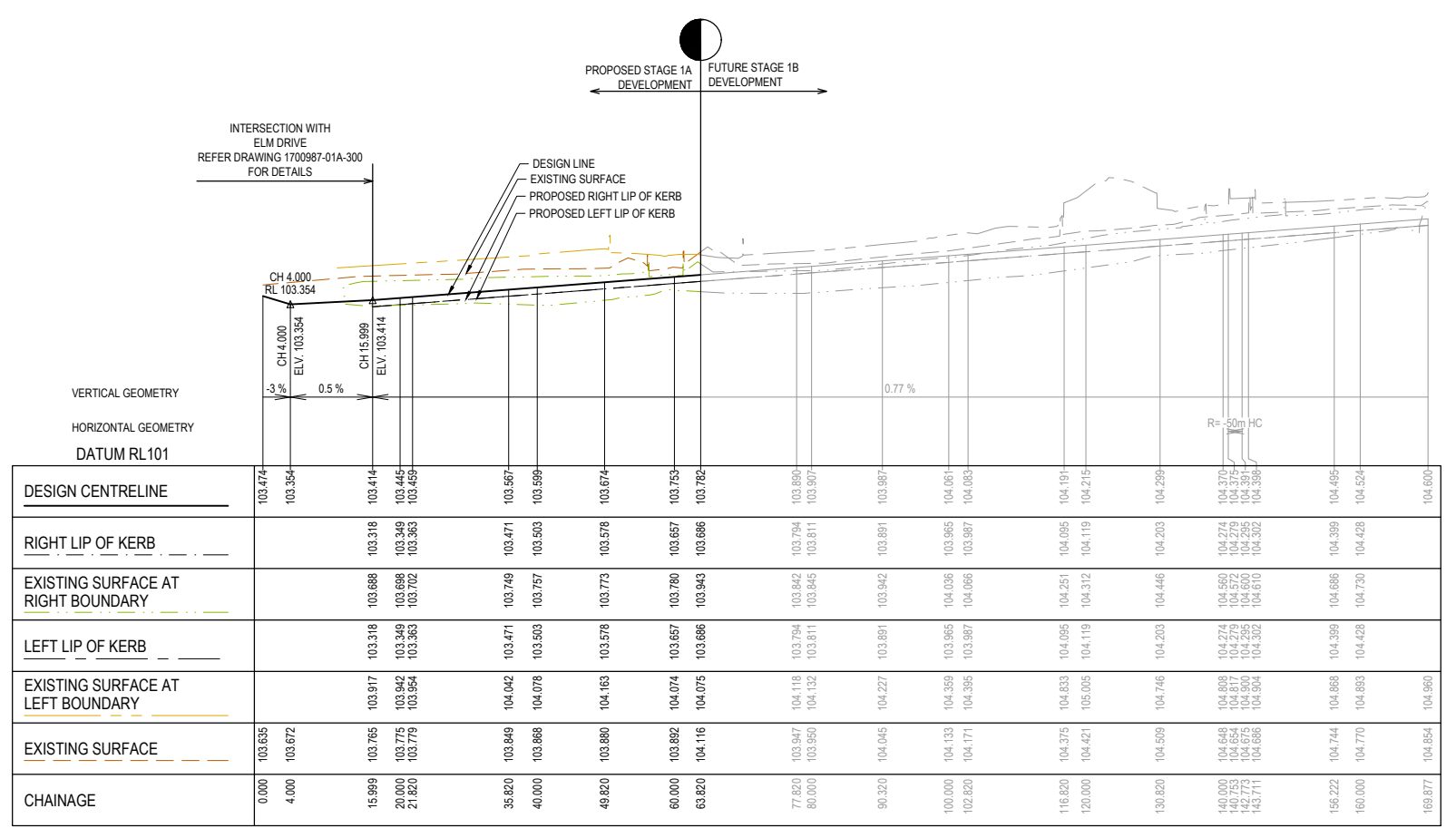
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 Drawing Title: ROAD LONGITUDINAL SECTIONS ELM DRIVE  
 Project Ref: 1700987 01A  
 Stage No: 100  
 Drawing No: 100  
 Rev: P3

Sheet 06 of 20  
 Scale: 1:500 H 1:50 V @ A1

  
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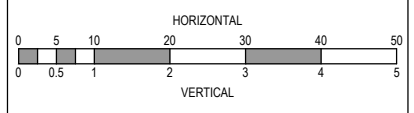
AGONIS STREET LONGITUDINAL SECTION



LILYBLOOM WAY LONGITUDINAL SECTION

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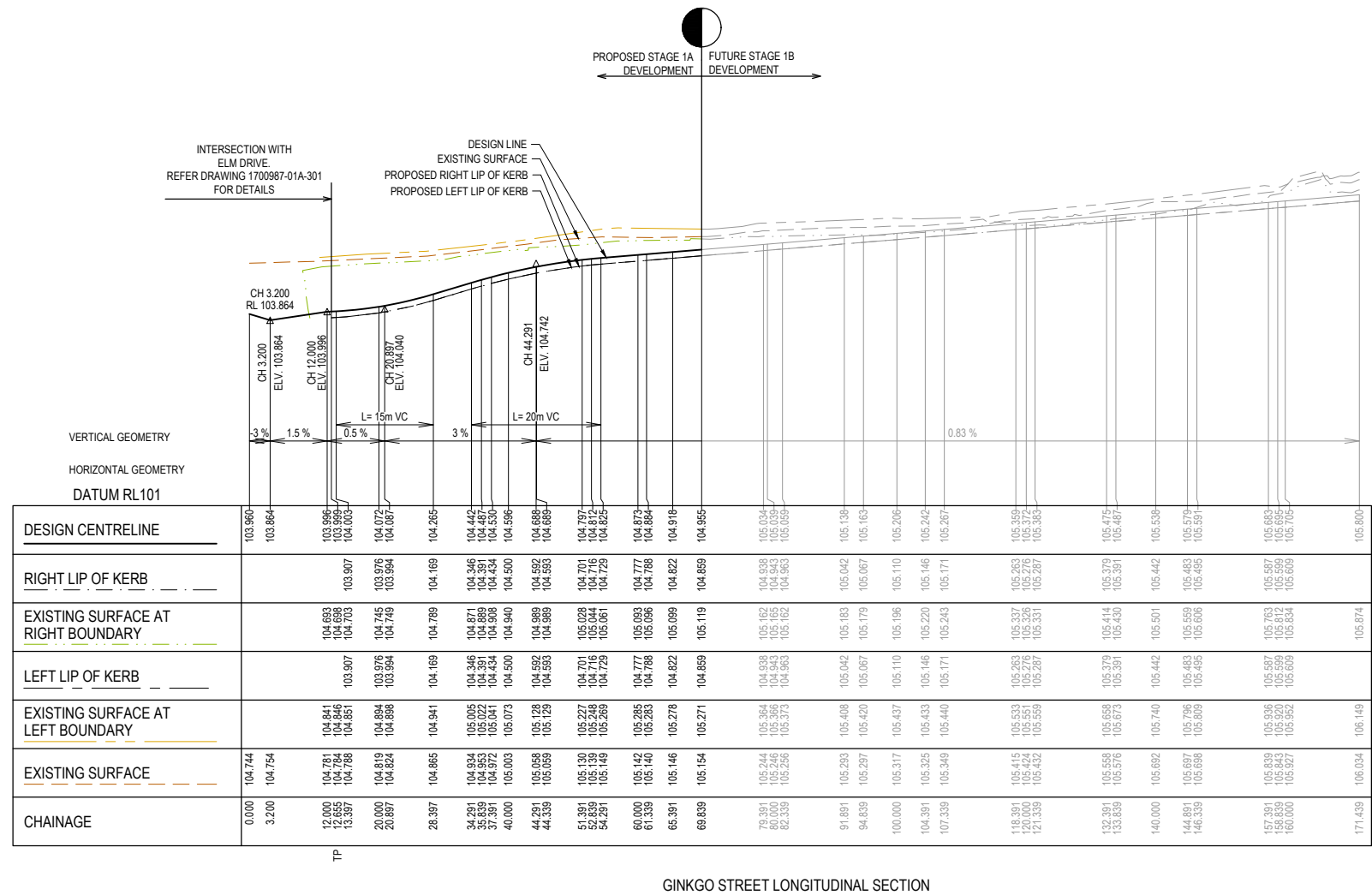
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Project Details: BOTANIA ESTATE STAGE 01A MELTON CITY COUNCIL  
 Drawing Title: ROAD LONGITUDINAL SECTIONS LILYBLOOM WAY & AGONIS STREET

Sheet 07 of 20  
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 Project Ref: 1700987 01A 101 P3

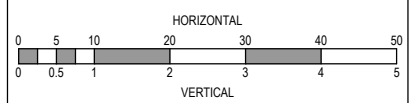
  
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GINKGO STREET LONGITUDINAL SECTION

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| P3  | ROAD NAMES AMENDED | 30.09.19 | DC   | TN   |     |             |      |      |      |
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| P1  | TENDER ISSUE       | 02.05.19 | JM   | TN   |     |             |      |      |      |



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 Drawing Title: ROAD LONGITUDINAL SECTIONS GINKGO STREET

Sheet 08 of 20  
 Scale: 1:500 H 1:50 V @ A1  
 Project Ref: 1700987 Stage No: 01A Drawing No: 102 Rev: P3

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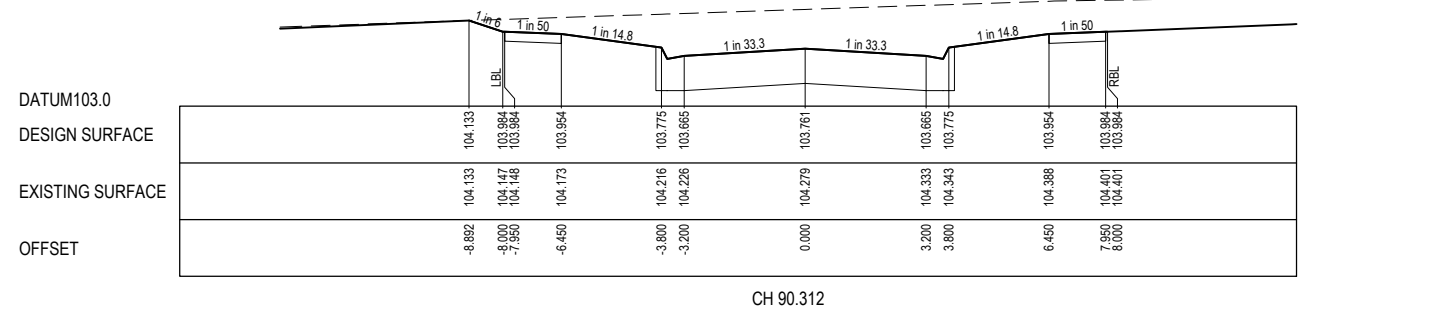
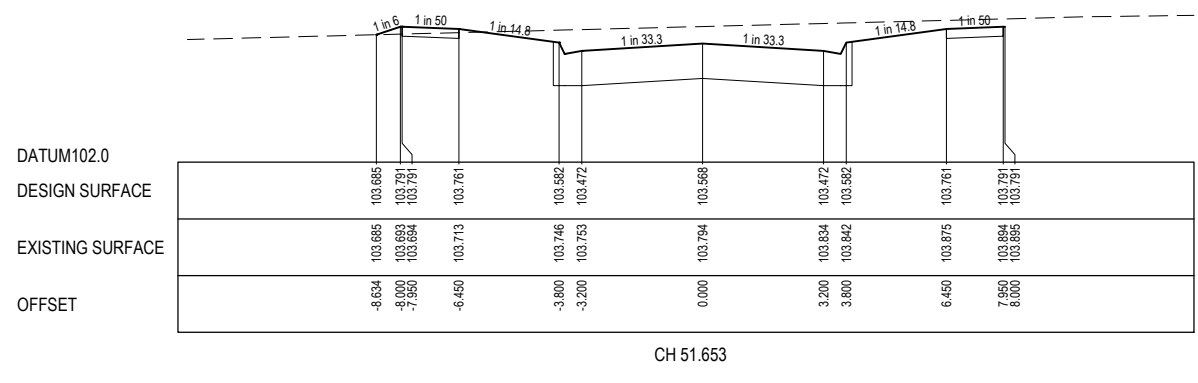
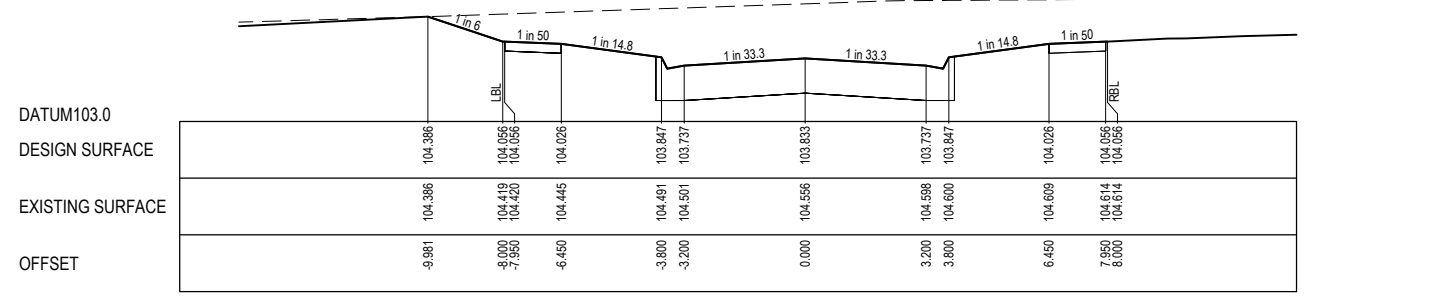
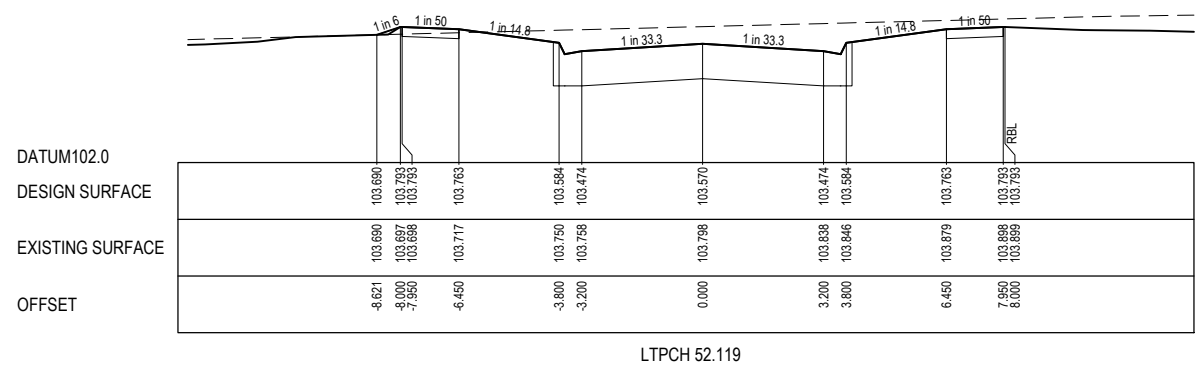
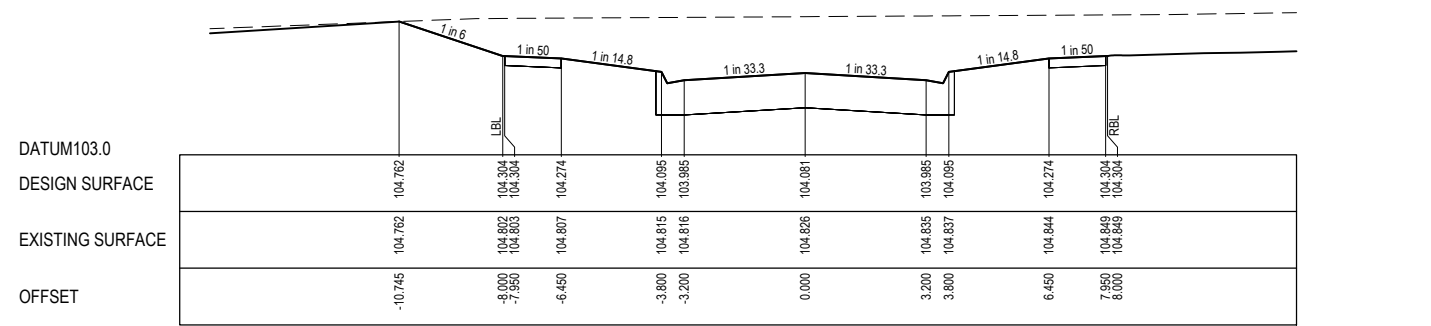
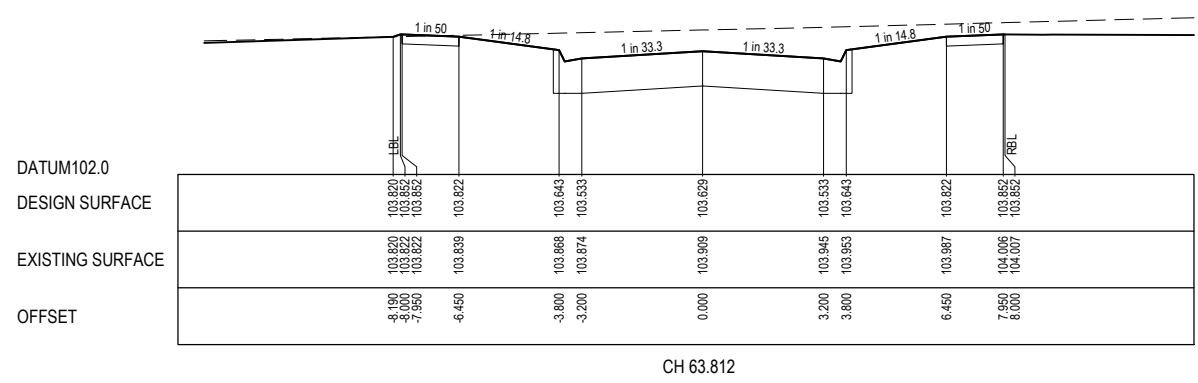
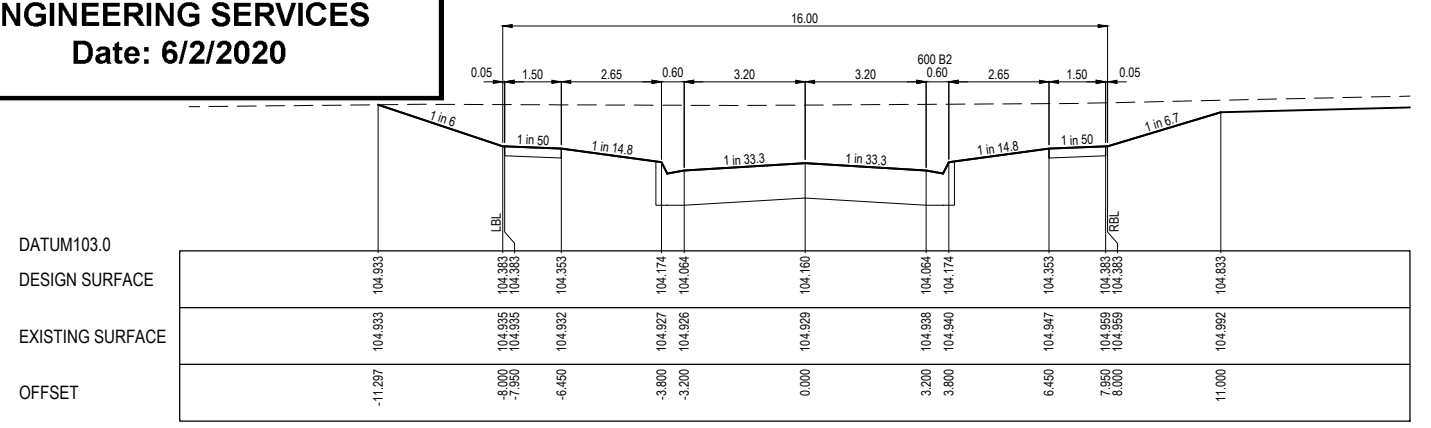
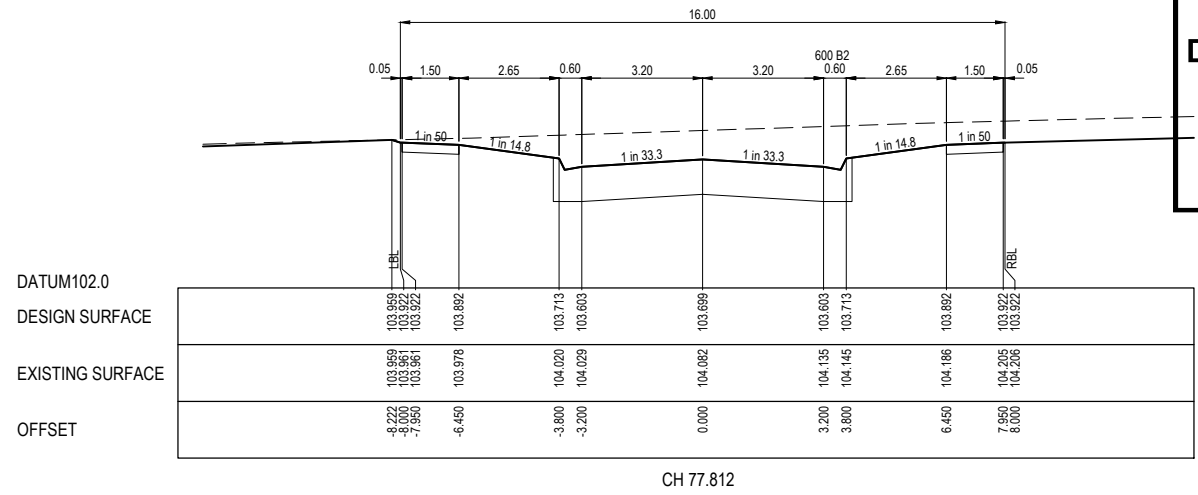


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Date: 6/2/2020**

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

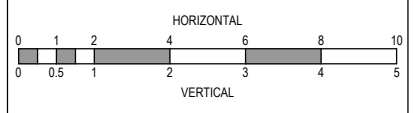
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- EXISTING SURFACE
- DESIGN SURFACE
- STRUCTURAL FILL



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 Approved: T.NAMAR 31.10.2018  
 PS Number: PS823199J

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Project Details: BOTANIA ESTATE STAGE 01A MELTON CITY COUNCIL  
 Drawing Title: ROAD CROSS SECTIONS ELM DRIVE (SHEET 1 OF 2)

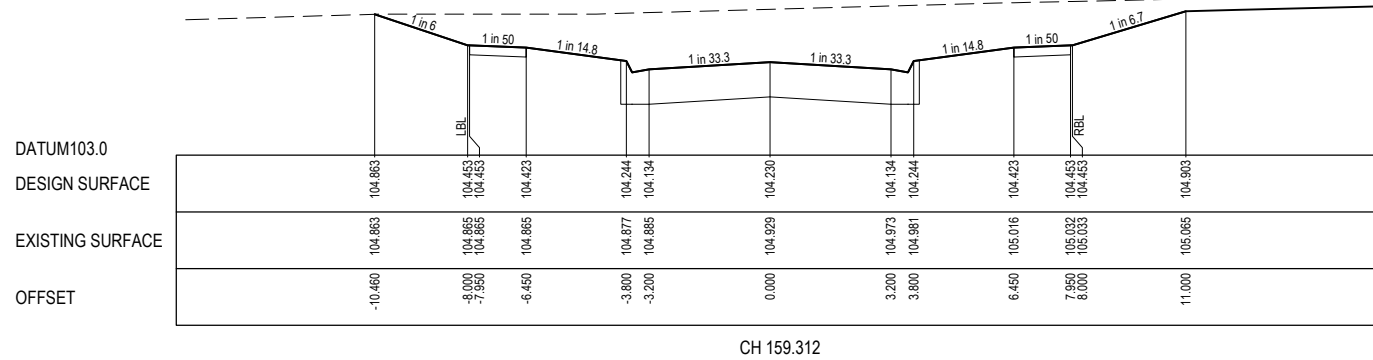
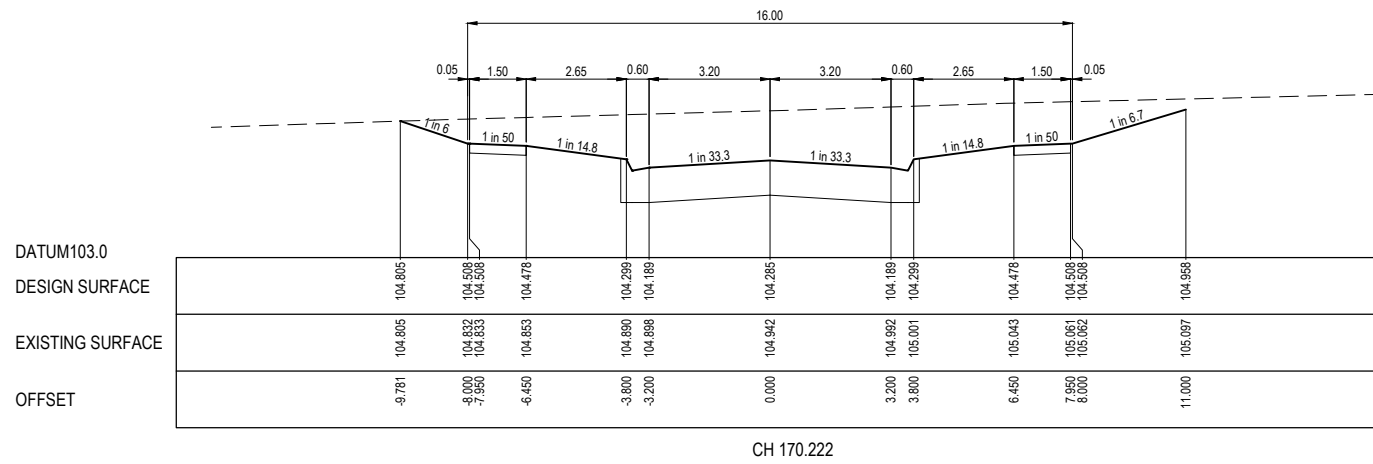
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 Stage No: 01A  
 Drawing No: 200  
 Rev: P2

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**Date: 6/2/2020**

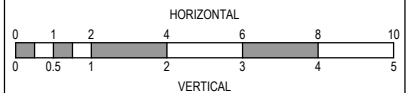
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

**LEGEND**  
 - - - - - EXISTING SURFACE  
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Project Details: BOTANIA ESTATE STAGE 01A MELTON CITY COUNCIL  
 Drawing Title: ROAD CROSS SECTIONS ELM DRIVE (SHEET 2 OF 2)

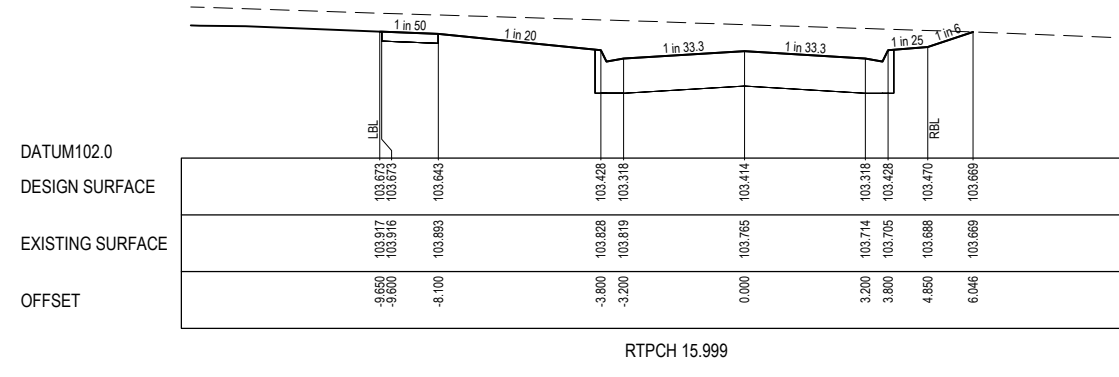
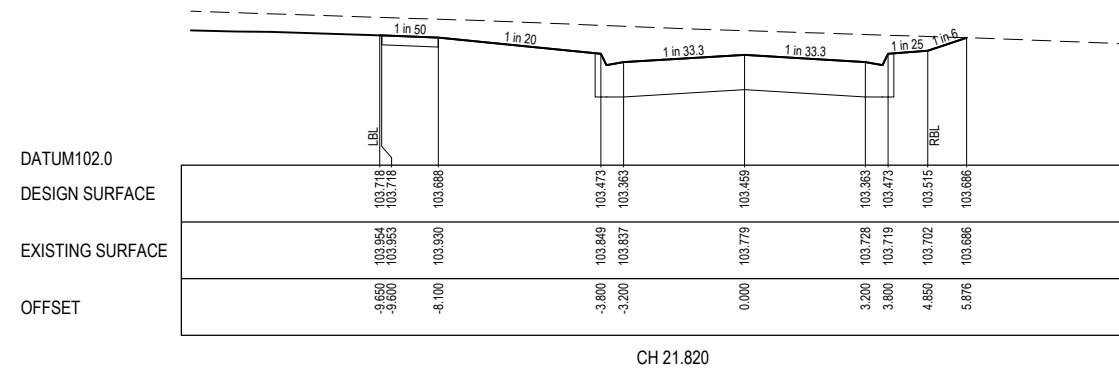
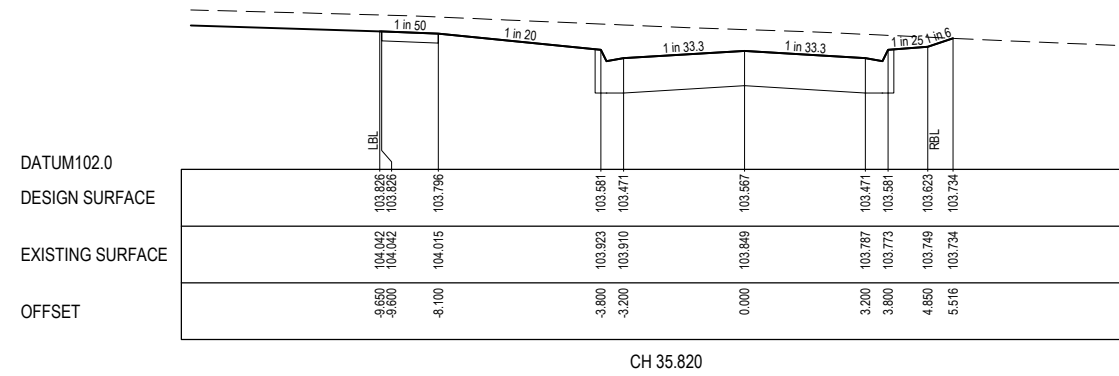
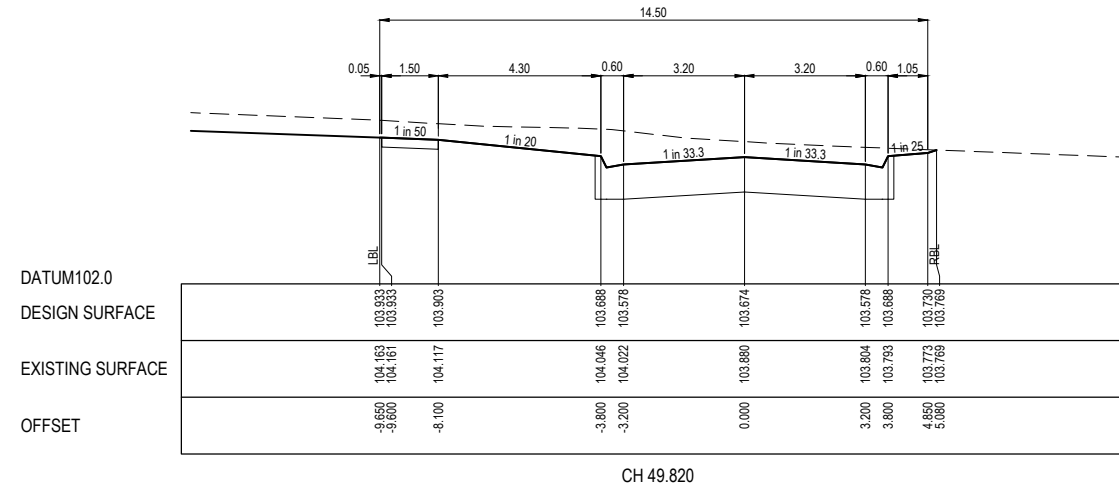
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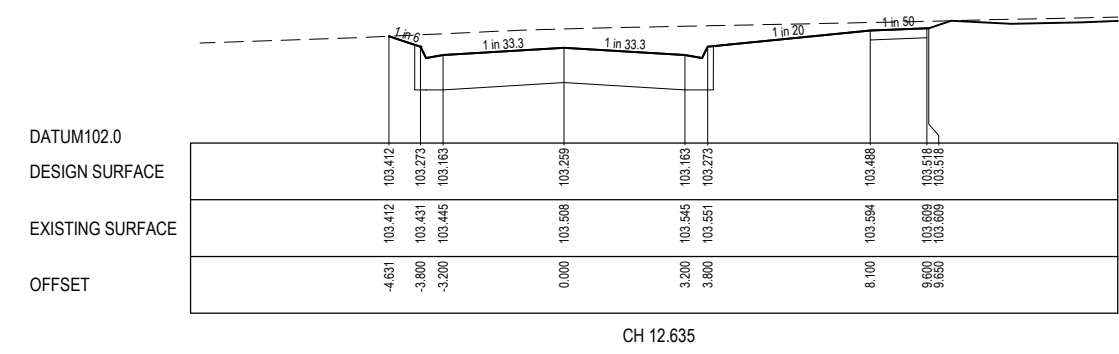
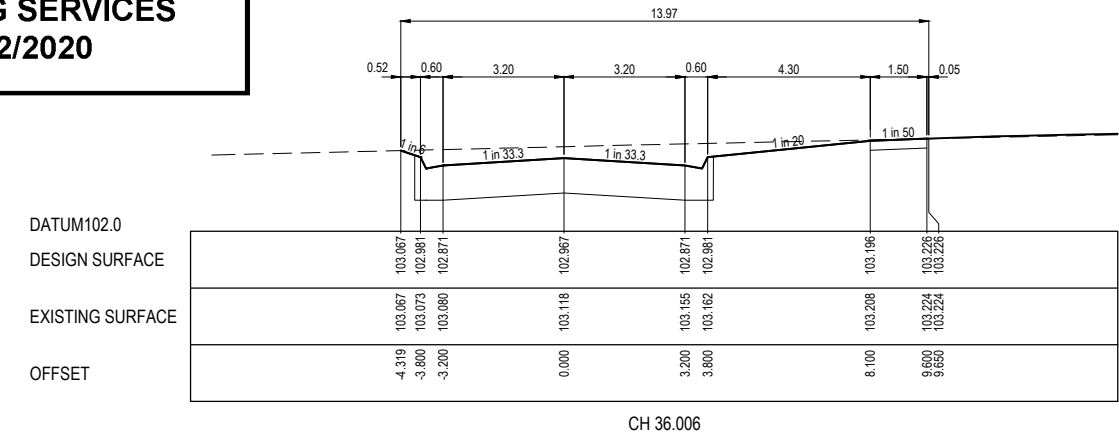
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Nihal Jayasekara  
ENGINEERING SERVICES  
Date: 6/2/2020**

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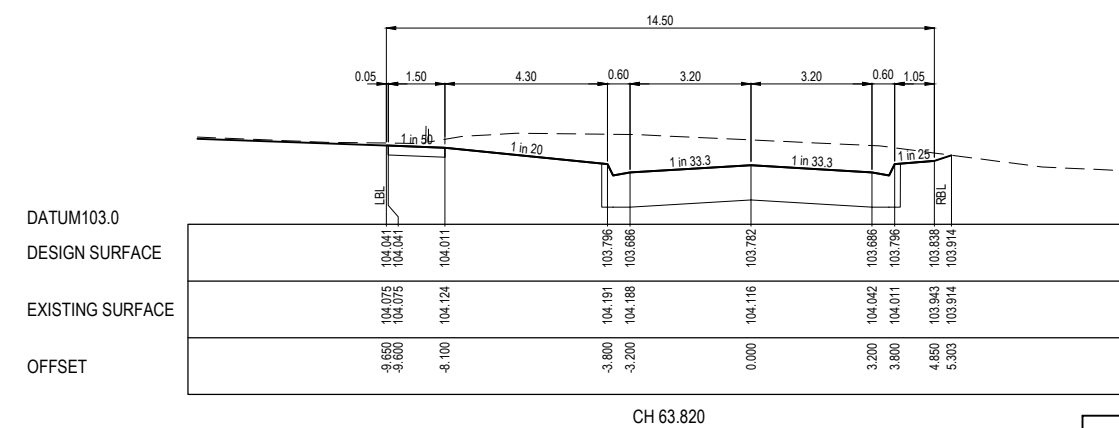
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|        | DESIGN SURFACE   |



LILYBLOOM WAY - ROAD CROSS SECTIONS



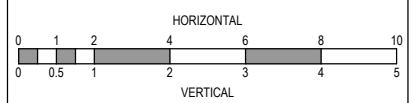
AGONIS STREET - ROAD CROSS SECTIONS



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|   |                    |          |     |      |     |
|---|--------------------|----------|-----|------|-----|
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| P3  | ROAD NAMES AMENDED | 30.09.19 | DC  | TN   |     |
| P2  | COUNCIL ISSUE      | 10.07.19 | CC  | TN   |     |
| P1  | TENDER ISSUE       | 02.05.19 | JM  | TN   |     |
| REV   | DESCRIPTION        | DATE     | DRN | APP. | REV |

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



|               |                        |
|---------------|------------------------|
| Designed Date | J.MONGAN<br>31.10.2018 |
| Drawn         | J.MONGAN               |
| Approved Date | T.NAMAR<br>31.10.2018  |
| PS Number     | PS823199J              |

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|-----------------|--|
| Project Details | BOTANIA ESTATE<br>STAGE 01A<br>MELTON CITY COUNCIL   |
| Drawing Title   | ROAD CROSS SECTIONS<br>LILYBLOOM WAY & AGONIS STREET |

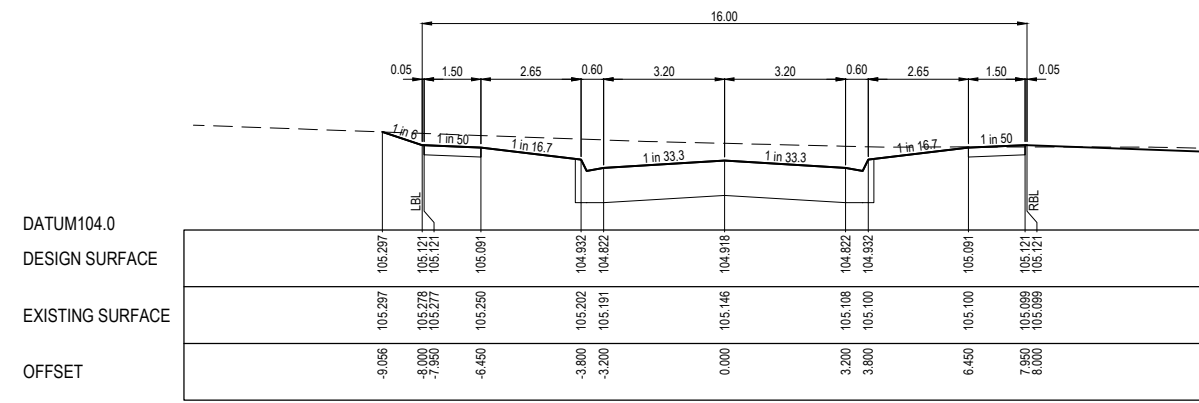
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| Sheet 11 of 20               |          |            |
| Scale<br>1:100 H 1:50 V @ A1 |          |            |
| Project Ref                  | Stage No | Drawing No |
| 1700987                      | 01A      | 202        |
|                              |          | P3         |

K:\Jobs Data\1700987 - 1152-1174 Taylors Road & 451-471 Beattys, Plumpton\_Eng\Stage 01A\Drawings\1700987-01A-200-RXS.dwg

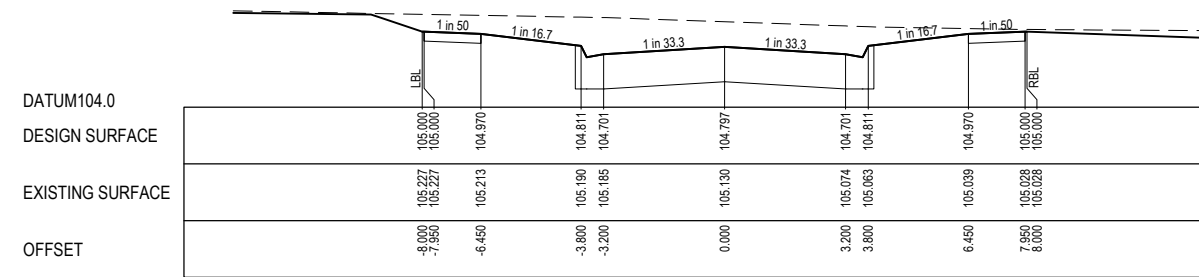
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

**LEGEND**  
 - - - - - EXISTING SURFACE  
 \_\_\_\_\_ DESIGN SURFACE

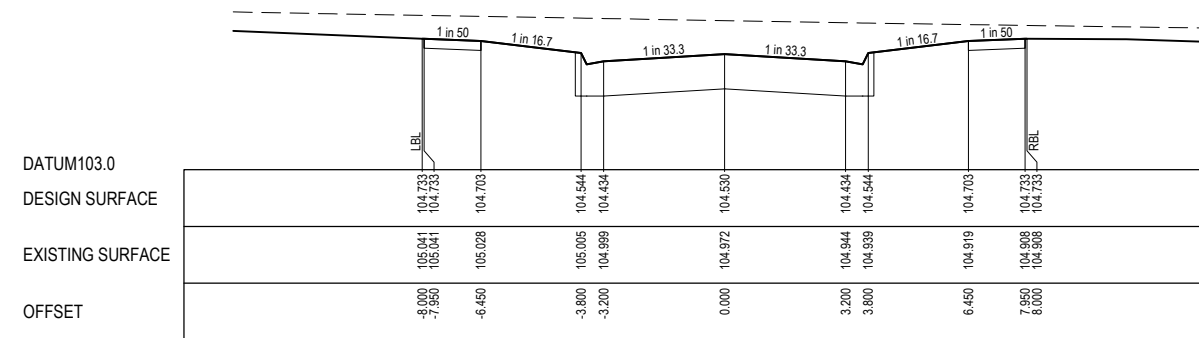
  
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**DETAILED ENGINEERING PLANS**  
**Nihal Jayasekara**  
**ENGINEERING SERVICES**  
**Date: 6/2/2020**



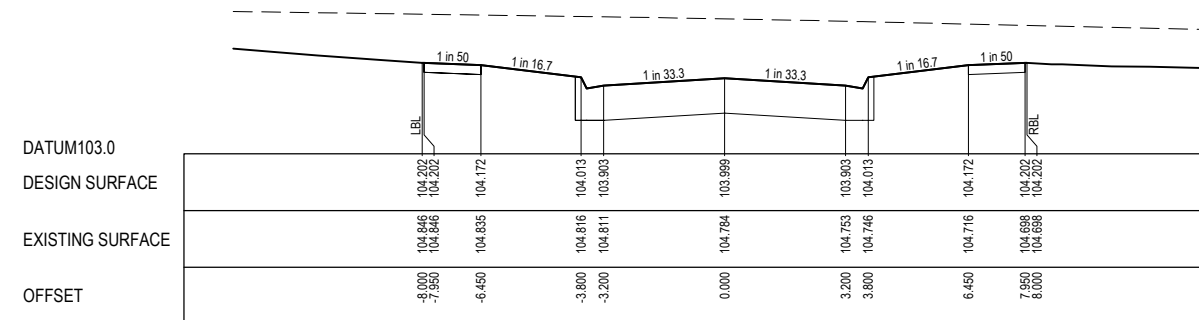
CH 65.391



CH 51.391



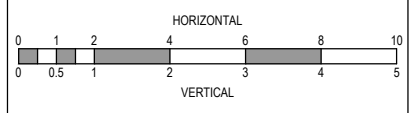
CH 37.391



RTPCH 12.655

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|--|--------------------|----------|------|------|-----|-------------|------|------|------|--|
| P3   | ROAD NAMES AMENDED | 30.09.19 | DC   | TN   |     |             |      |      |      |  |
| P2   | COUNCIL ISSUE      | 10.07.19 | CC   | TN   |     |             |      |      |      |  |
| P1   | TENDER ISSUE       | 02.05.19 | JM   | TN   |     |             |      |      |      |  |
| REV  | DESCRIPTION        | DATE     | DRN. | APP. | REV | DESCRIPTION | DATE | DRN. | APP. |  |

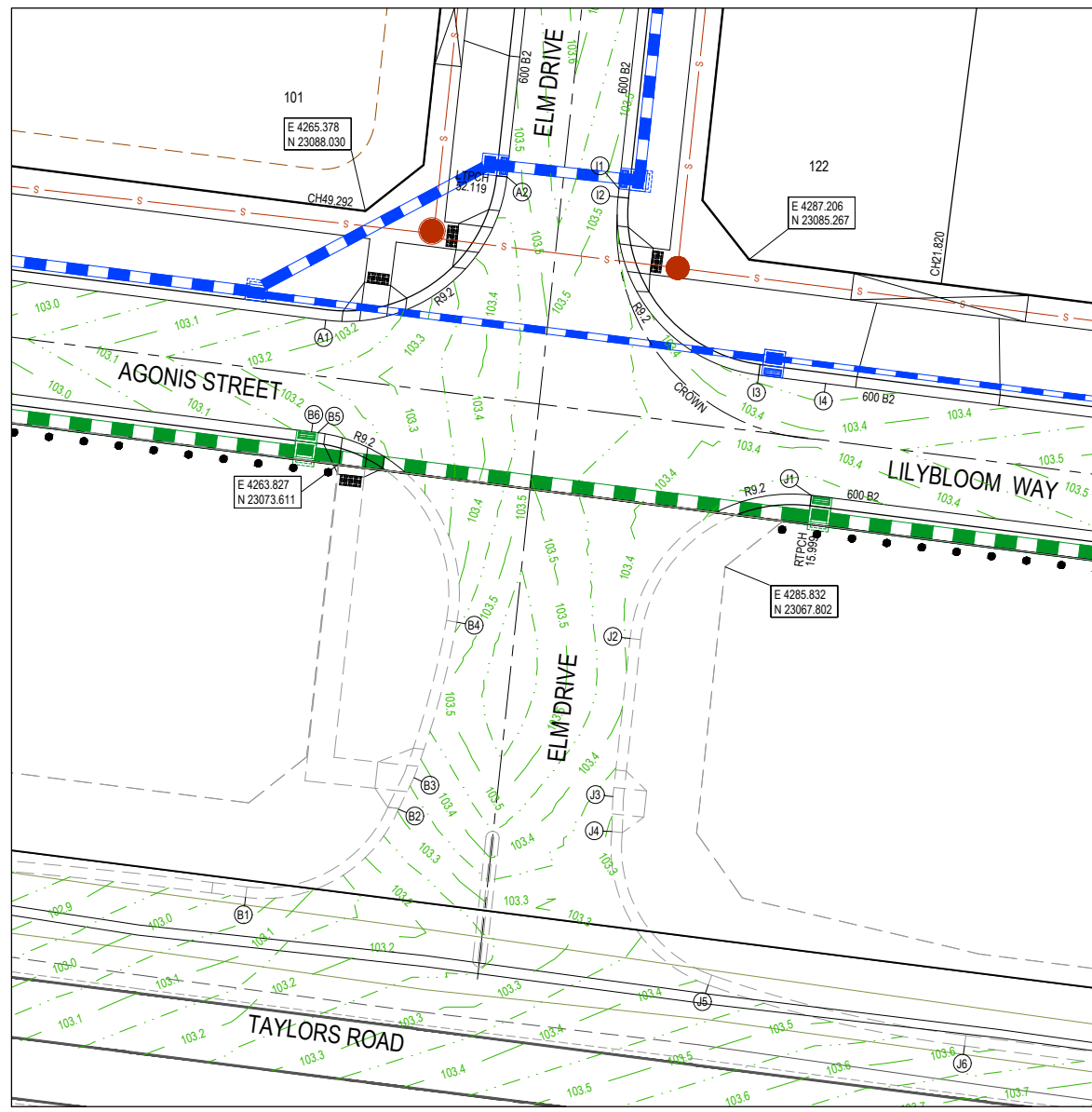


Designed Date: J.MONGAN 31.10.2018  
 Drawn: J.MONGAN  
 Approved Date: T.NAMAR 31.10.2018  
 PS Number: PS823199J

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Project Details: BOTANIA ESTATE STAGE 01A MELTON CITY COUNCIL  
 Drawing Title: ROAD CROSS SECTIONS GINKGO STREET

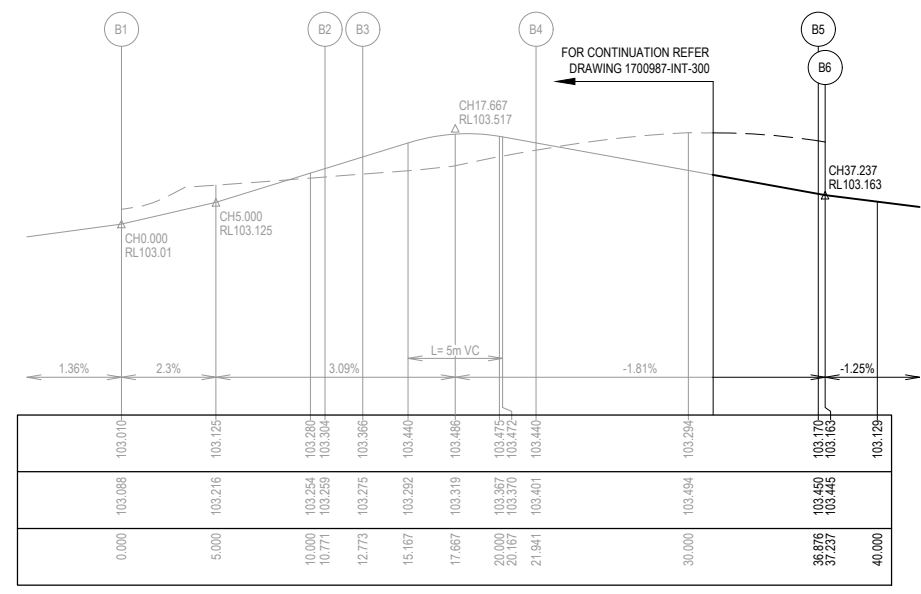
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 Project Ref: 1700987  
 Stage No: 01A  
 Drawing No: 203  
 Rev: P3



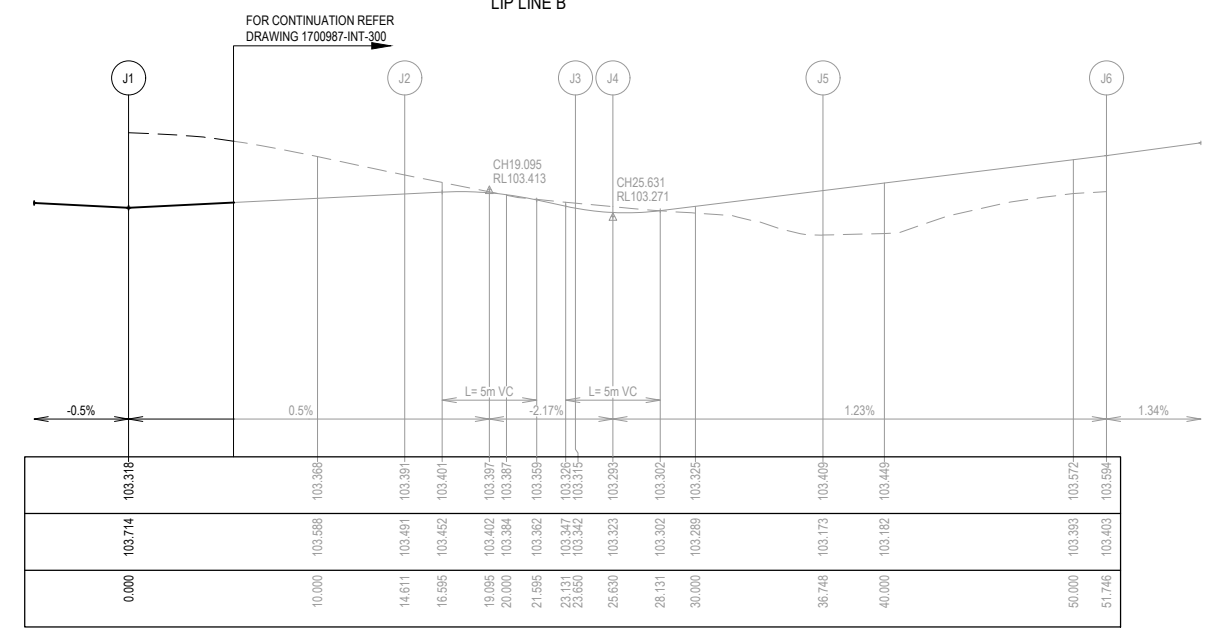
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DETAILED ENGINEERING PLANS**  
Nihal Jayasekara  
ENGINEERING SERVICES  
Date: 6/2/2020

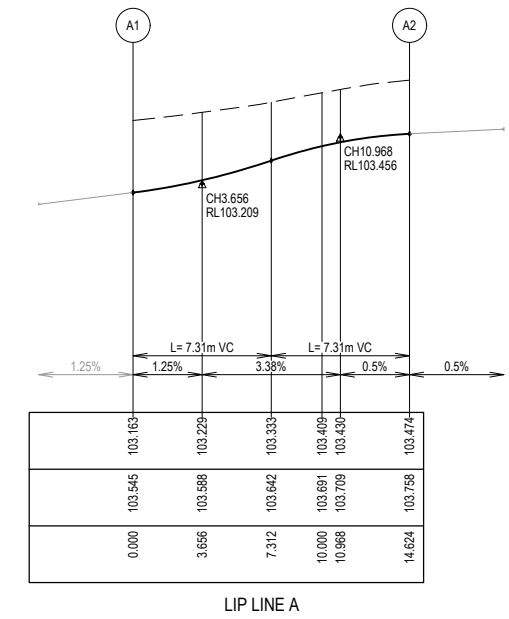
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DATUM RL102  
DESIGN LEVEL  
EXISTING SURFACE  
CHAINAGE



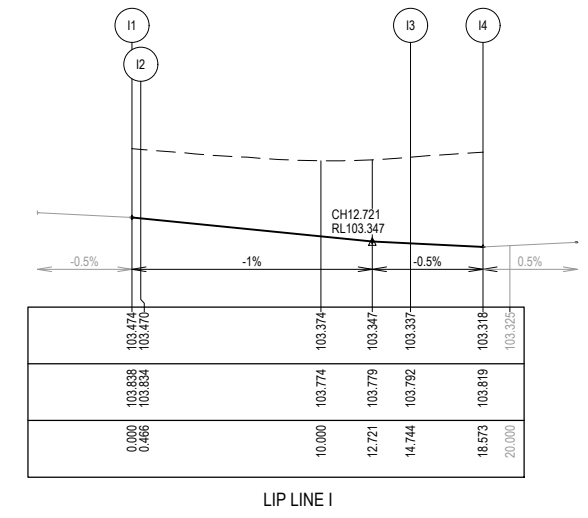
VERTICAL GEOMETRY  
DATUM RL102  
DESIGN LEVEL  
EXISTING SURFACE  
CHAINAGE



VERTICAL GEOMETRY  
DATUM RL102  
DESIGN LEVEL  
EXISTING SURFACE  
CHAINAGE



VERTICAL GEOMETRY  
DATUM RL103  
DESIGN LEVEL  
EXISTING SURFACE  
CHAINAGE



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Alignment A

| Point no | Easting  | Northing  | RL      |
|----------|----------|-----------|---------|
| A1       | 4263.127 | 23081.813 | 103.163 |
| A2       | 4273.429 | 23089.957 | 103.474 |

Alignment B

| Point no | Easting  | Northing  | RL      |
|----------|----------|-----------|---------|
| B1       | 4258.571 | 23049.031 | 103.010 |
| B2       | 4267.265 | 23054.035 | 103.304 |
| B3       | 4268.145 | 23055.833 | 103.366 |
| B4       | 4270.580 | 23064.659 | 103.440 |
| B5       | 4262.681 | 23075.419 | 103.170 |
| B6       | 4262.323 | 23075.464 | 103.163 |

| Curve no | I      | Radius | Arc    | A     | B     | X     | Y     | I     | Mid point RL |
|----------|--------|--------|--------|-------|-------|-------|-------|-------|--------------|
| A1 - A2  | 91.076 | 9.200  | 14.624 | 2.756 | 2.039 | 3.561 | 3.006 | 3.656 | 103.333      |
| B1 - B2  | 74.351 | 8.300  | 10.771 | 1.687 | 1.254 | 2.646 | 2.370 | 2.693 | 103.137      |
| B3 - B4  | 10.412 | 50.450 | 9.168  | 0.208 | 0.156 | 2.291 | 2.286 | 2.292 | 103.484      |
| B4 - B5  | 93.009 | 9.200  | 14.934 | 2.868 | 2.120 | 3.632 | 3.042 | 3.734 | 103.305      |

Alignment I

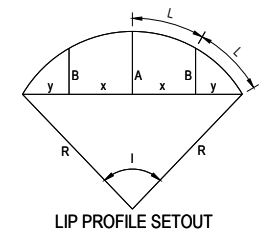
| Point no | Easting  | Northing  | RL      |
|----------|----------|-----------|---------|
| I1       | 4279.793 | 23089.273 | 103.474 |
| I2       | 4279.743 | 23088.810 | 103.470 |
| I3       | 4287.735 | 23078.699 | 103.337 |
| I4       | 4291.534 | 23078.218 | 103.318 |

| Curve no | I      | Radius | Arc    | A     | B     | X     | Y     | I     | Mid point RL |
|----------|--------|--------|--------|-------|-------|-------|-------|-------|--------------|
| I2 - I3  | 88.924 | 9.200  | 14.279 | 2.634 | 1.950 | 3.481 | 2.963 | 3.570 | 103.398      |

Alignment J

| Point no | Easting  | Northing  | RL      |
|----------|----------|-----------|---------|
| J1       | 4290.730 | 23071.869 | 103.318 |
| J2       | 4280.429 | 23063.738 | 103.391 |
| J3       | 4279.450 | 23054.752 | 103.315 |
| J4       | 4279.386 | 23052.773 | 103.293 |
| J5       | 4284.870 | 23044.049 | 103.409 |
| J6       | 4299.434 | 23040.590 | 103.594 |

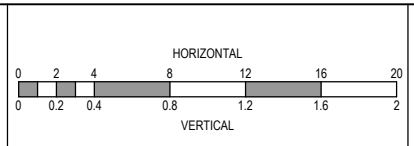
| Curve no | I      | Radius | Arc    | A     | B     | X     | Y     | I     | Mid point RL |
|----------|--------|--------|--------|-------|-------|-------|-------|-------|--------------|
| J1 - J2  | 90.995 | 9.200  | 14.611 | 2.751 | 2.036 | 3.558 | 3.004 | 3.653 | 103.354      |
| J4 - J5  | 76.745 | 8.300  | 11.117 | 1.793 | 1.332 | 2.728 | 2.425 | 2.779 | 103.340      |
| J5 - J6  | 12.223 | 70.300 | 14.998 | 0.400 | 0.300 | 3.748 | 3.737 | 3.749 | 103.501      |



**LEGEND**

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY

| REV | DESCRIPTION                | DATE     | DRN. | APP. | REV | DESCRIPTION | DATE | DRN. | APP. |
|-----|----------------------------|----------|------|------|-----|-------------|------|------|------|
| P4  | ROAD NAMES AMENDED         | 30.09.19 | DC   | TN   |     |             |      |      |      |
| P3  | DRAINAGE ALIGNMENT AMENDED | 22.08.19 | JM   | JM   |     |             |      |      |      |
| P2  | COUNCIL ISSUE              | 10.07.19 | CC   | TN   |     |             |      |      |      |
| P1  | TENDER ISSUE               | 02.05.19 | JM   | TN   |     |             |      |      |      |



Designed Date: J.MONGAN 31.10.2018  
Drawn: J.MONGAN  
Approved Date: T.NAMAR 31.10.2018  
PS Number: PS823199J

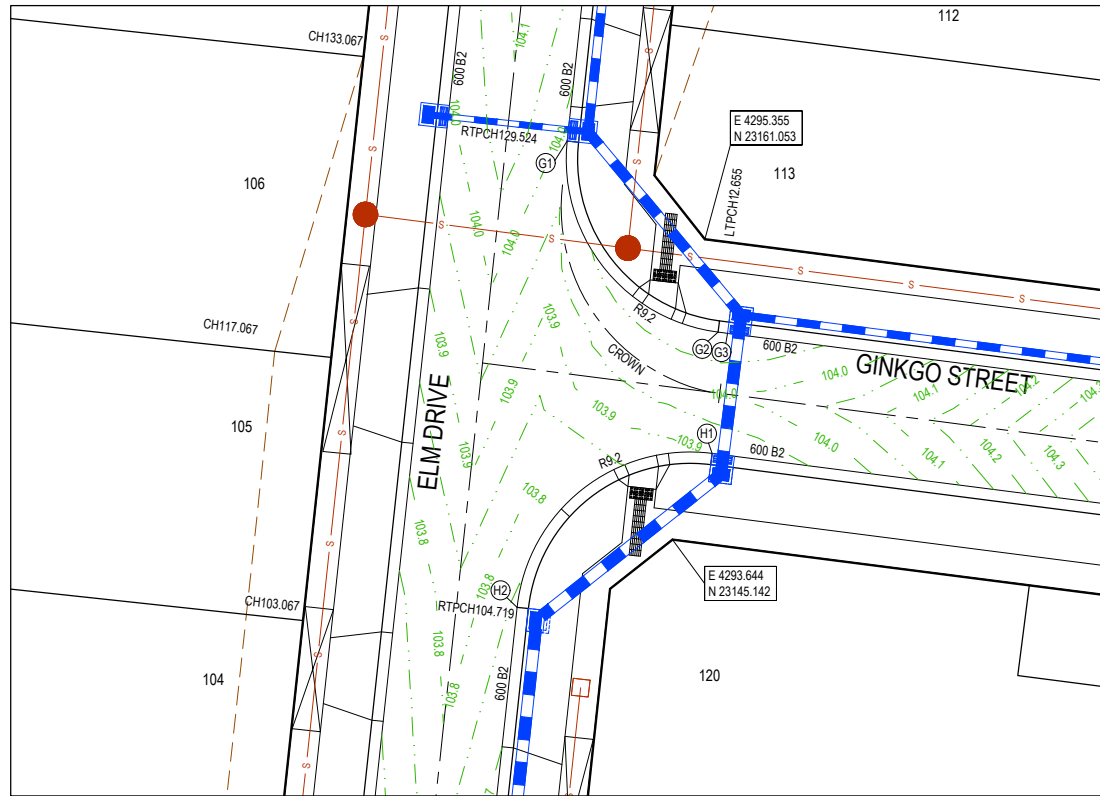
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Malvern VIC 3144  
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Project Details: BOTANIA ESTATE STAGE 01A MELTON CITY COUNCIL  
Drawing Title: INTERSECTION DETAILS (SHEET 1 OF 2)

Sheet 13 of 20  
Scale: 1:200 H 1:20 V @ A1  
Project Ref: 1700987 01A Stage No: 300 Rev: P4

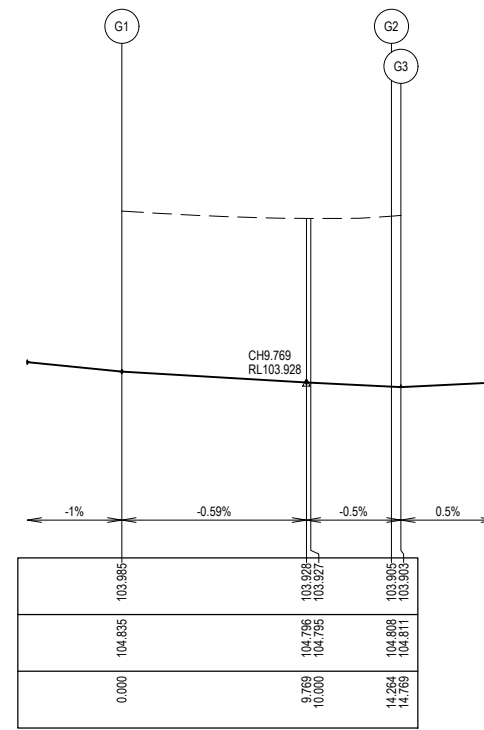
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**Nihal Jayasekara**  
**ENGINEERING SERVICES**  
**Date: 6/2/2020**

VERTICAL GEOMETRY  
 DATUM RL103  
 DESIGN LEVEL  
 EXISTING SURFACE  
 CHAINAGE

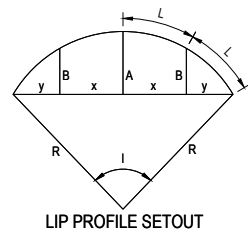


Alignment G

| Point no | Easting  | Northing  | RL      |
|----------|----------|-----------|---------|
| G1       | 4288.067 | 23166.234 | 103.985 |
| G2       | 4296.045 | 23156.125 | 103.905 |
| G3       | 4296.546 | 23156.061 | 103.903 |

| Curve no | I      | Radius | Arc    | A     | B     | X     | Y     | I     | Mid point RL |
|----------|--------|--------|--------|-------|-------|-------|-------|-------|--------------|
| G1 - G2  | 88.833 | 9.200  | 14.264 | 2.629 | 1.946 | 3.477 | 2.961 | 3.566 | 103.943      |

LIP LINE G



LIP PROFILE SETOUT

**LEGEND**

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN.
- "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY

VERTICAL GEOMETRY  
 DATUM RL103  
 DESIGN LEVEL  
 EXISTING SURFACE  
 CHAINAGE



Alignment H

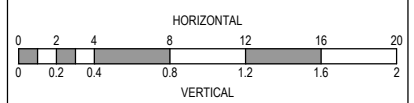
| Point no | Easting  | Northing  | RL      |
|----------|----------|-----------|---------|
| H1       | 4295.732 | 23149.713 | 103.903 |
| H2       | 4285.416 | 23141.571 | 103.737 |

| Curve no | I      | Radius | Arc    | A     | B     | X     | Y     | I     | Mid point RL |
|----------|--------|--------|--------|-------|-------|-------|-------|-------|--------------|
| H1 - H2  | 91.167 | 9.200  | 14.639 | 2.761 | 2.043 | 3.564 | 3.007 | 3.660 | 103.820      |

LIP LINE H

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| REV | DESCRIPTION        | DATE     | DRN. | APP. | REV | DESCRIPTION | DATE | DRN. | APP. |
|-----|--------------------|----------|------|------|-----|-------------|------|------|------|
| P3  | ROAD NAMES AMENDED | 30.09.19 | DC   | TN   |     |             |      |      |      |
| P2  | COUNCIL ISSUE      | 10.07.19 | CC   | TN   |     |             |      |      |      |
| P1  | TENDER ISSUE       | 02.05.19 | JM   | TN   |     |             |      |      |      |

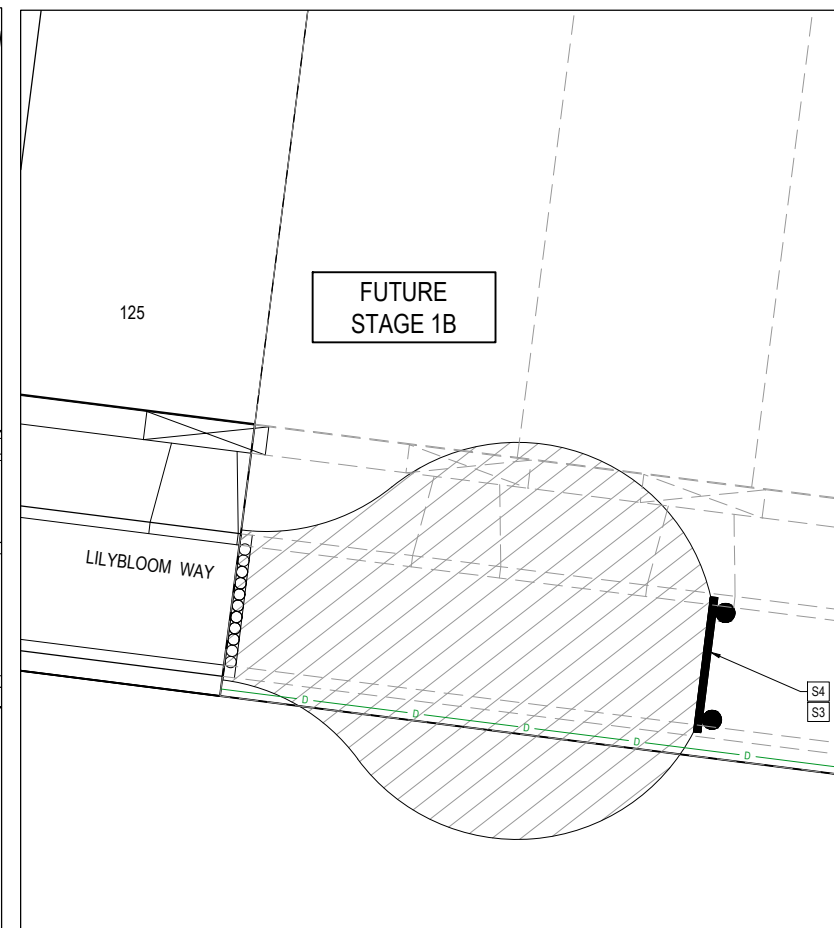
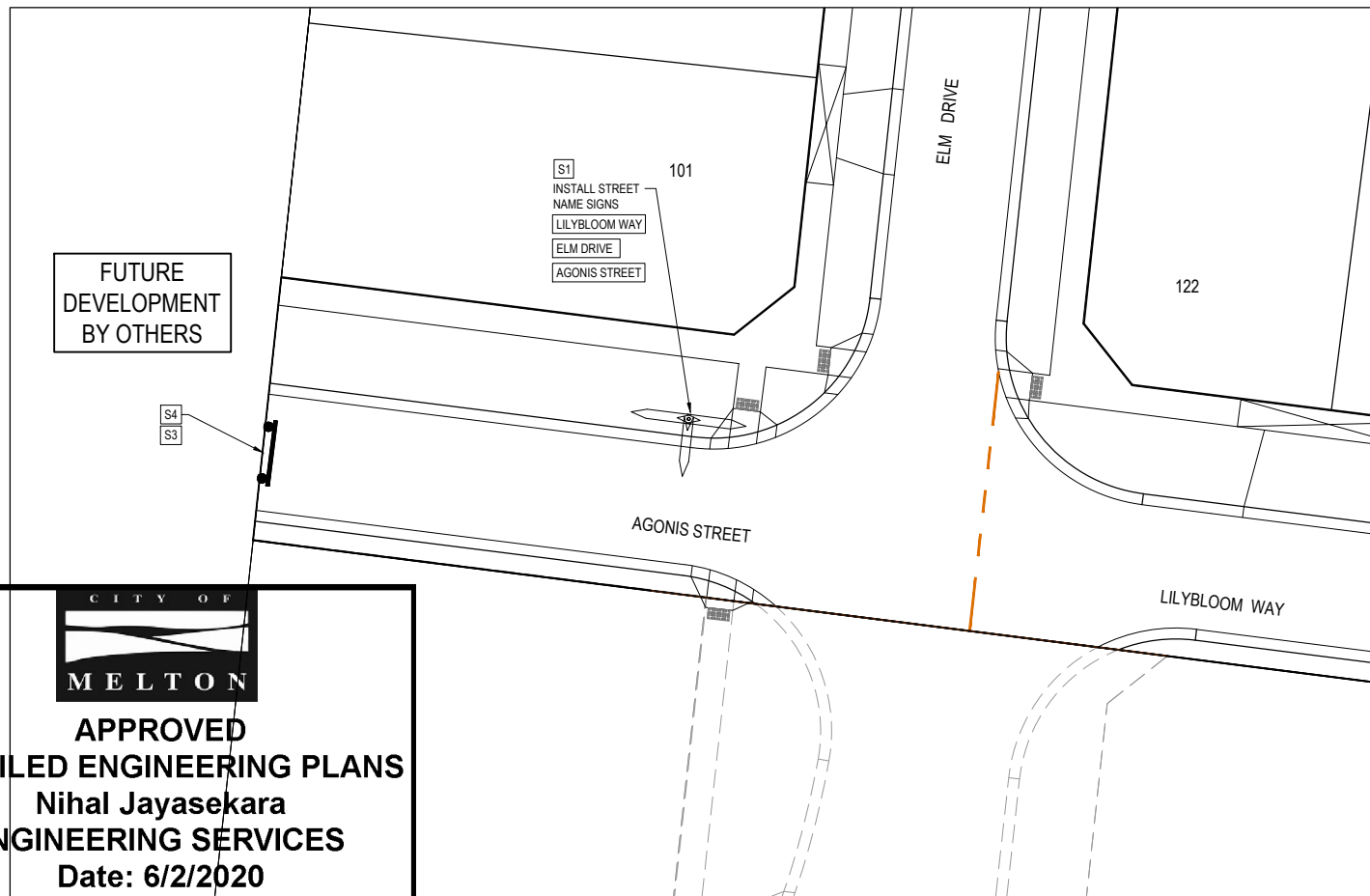
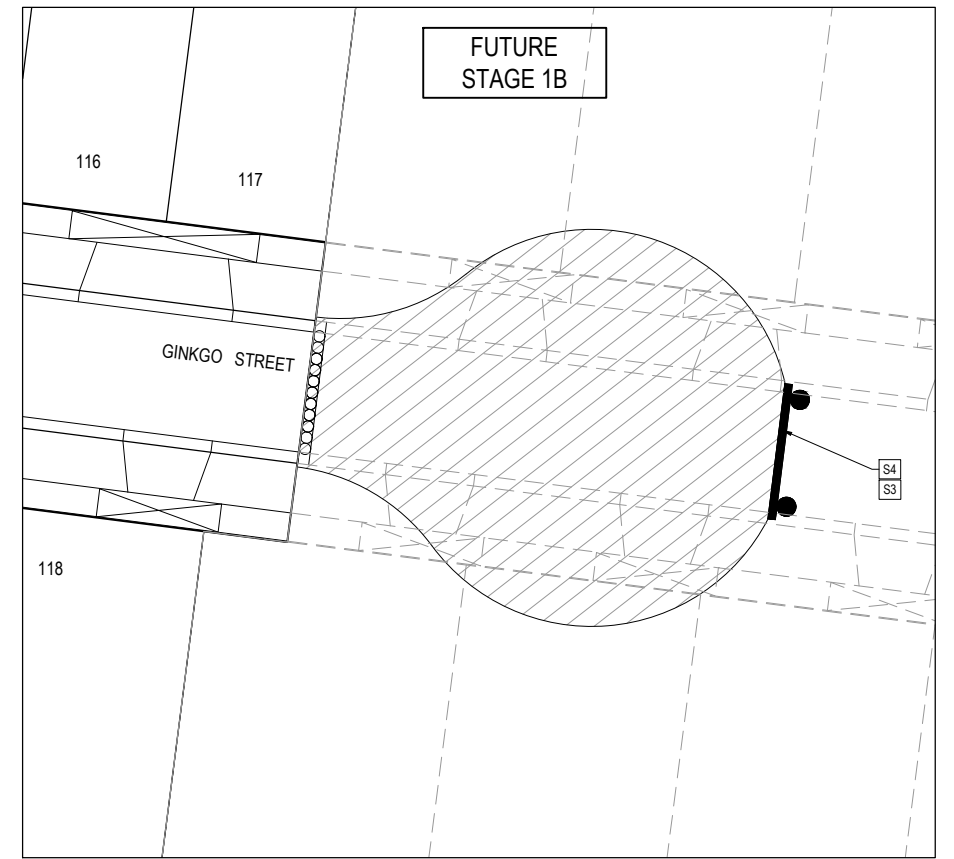
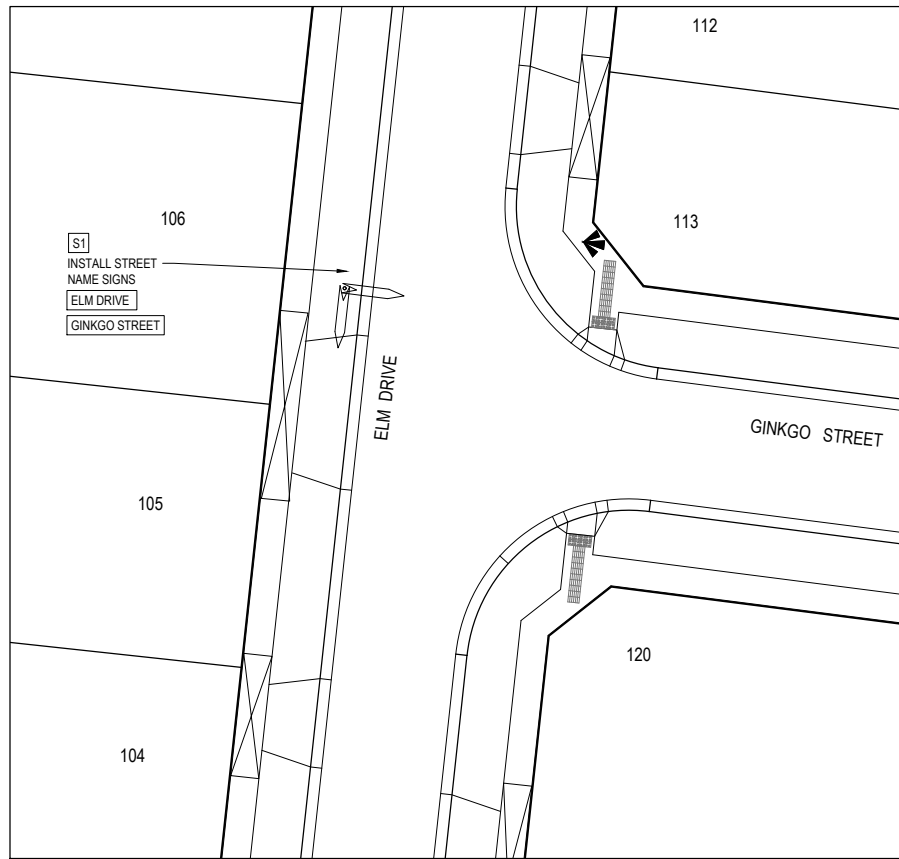
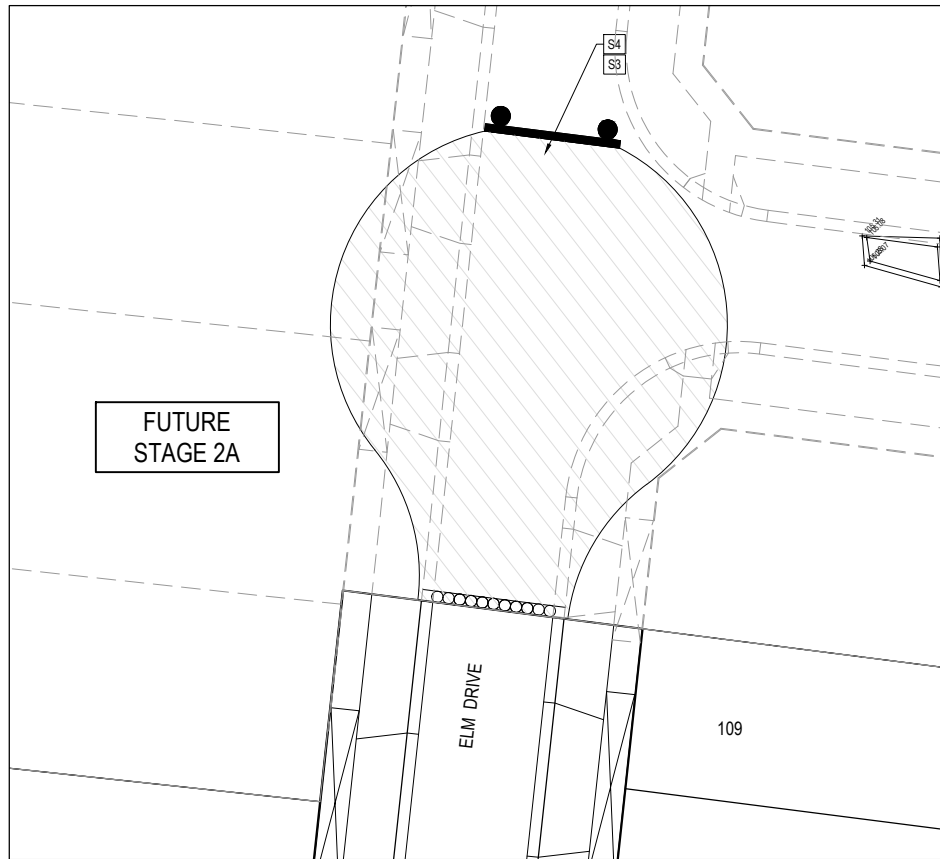


Designed Date: J.MONGAN 31.10.2018  
 Drawn: J.MONGAN  
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 PS Number: PS823199J

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Project Details: BOTANIA ESTATE STAGE 01A MELTON CITY COUNCIL  
 Drawing Title: INTERSECTION DETAILS (SHEET 2 OF 2)

Sheet 14 of 20  
 Scale: 1:200 H 1:20 V @ A1  
 Project Ref: 1700987 Stage No: 01A Drawing No: 301 Rev: P3



**SIGN SCHEDULE**

| IDENTIFIER | NUMBER           | SIGN |
|------------|------------------|------|
| S1         | STREET NAME SIGN |      |
| S2         | R1-2             |      |
| S3         | D4-5             |      |
| S4         | G9-20            |      |

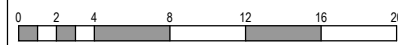
**NOTES**

- RRPM'S AT MAX 6m SPACING.
- LINEMARKING TO BE EXTENDED AT LEAST 5m FROM THE TANGENT POINT
- LINEMARKING IN ACCORDANCE WITH AS1742.
- TGSI TO BE INSTALLED IN ACCORDANCE WITH VICROADS RDN 06-06 - JULY2010

**CITY OF MELTON**  
**APPROVED**  
**DETAILED ENGINEERING PLANS**  
**Nihal Jayasekara**  
**ENGINEERING SERVICES**  
**Date: 6/2/2020**

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| REV | DESCRIPTION        | DATE     | DRN | APP | REV | DESCRIPTION | DATE | DRN | APP |
|-----|--------------------|----------|-----|-----|-----|-------------|------|-----|-----|
| P3  | ROAD NAMES AMENDED | 30.09.19 | DC  | TN  |     |             |      |     |     |
| P2  | COUNCIL ISSUE      | 10.07.19 | CC  | TN  |     |             |      |     |     |
| P1  | TENDER ISSUE       | 02.05.19 | JM  | TN  |     |             |      |     |     |



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 Drawn: J.MONGAN  
 Approved Date: T.NAMAR 31.10.2018  
 PS Number: PS823199J

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Project Details: **BOTANIA ESTATE STAGE 01A MELTON CITY COUNCIL**  
 Drawing Title: **SIGNAGE & LINE MARKING PLANS**

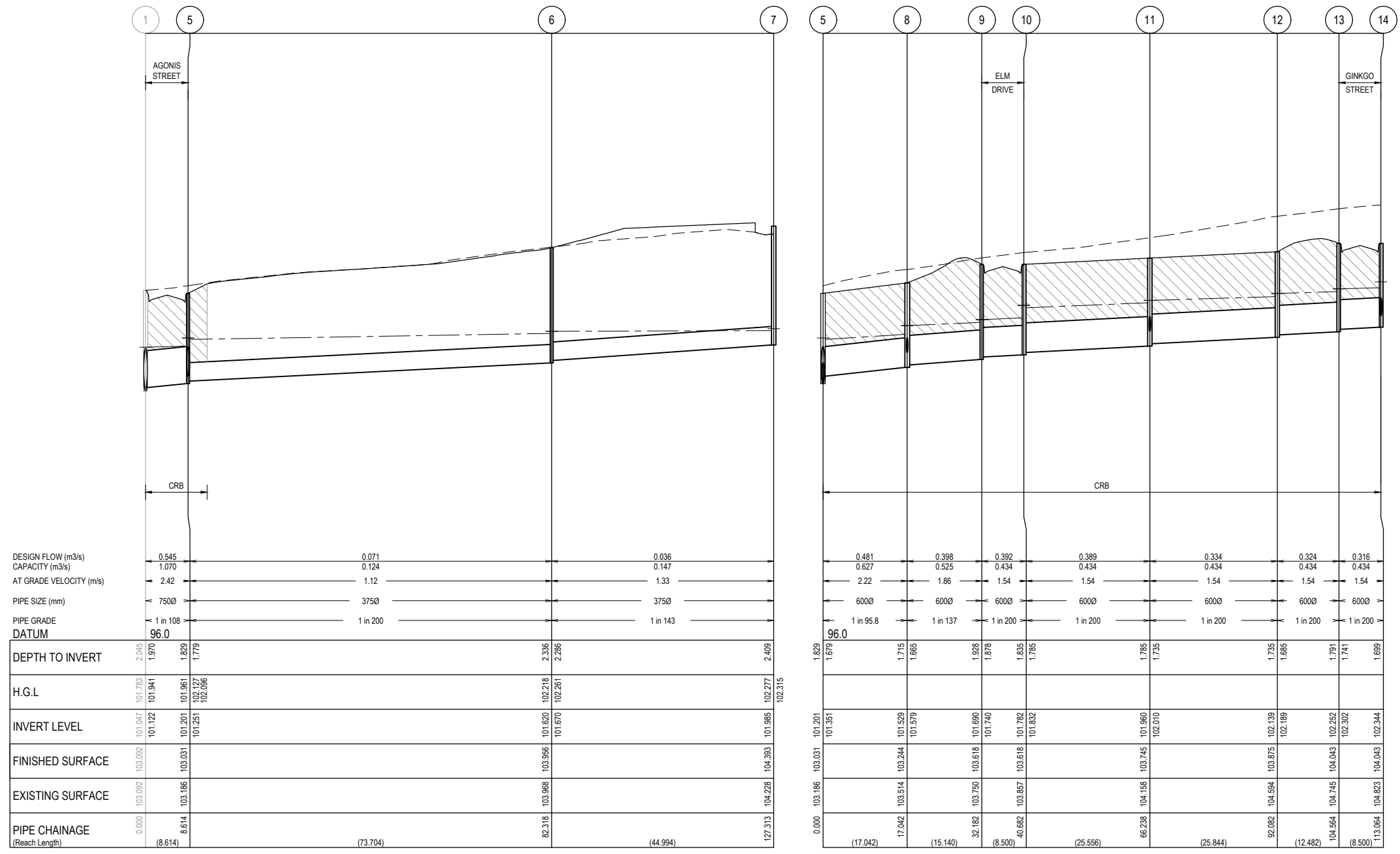
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 Project Ref: 1700987 Stage No: 01A Drawing No: 350 Rev: P3

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**Nihal Jayasekara**  
**ENGINEERING SERVICES**  
**Date: 6/2/2020**

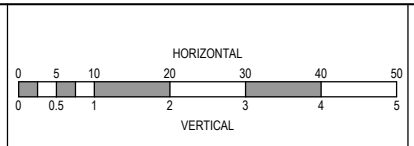
**NOTES:**  
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

| LEGEND |                                   |
|--------|-----------------------------------|
|        | EXISTING SURFACE                  |
|        | DESIGN SURFACE                    |
|        | DRAINAGE PIPE/PIT                 |
|        | EXISTING DRAINAGE PIPE/PIT        |
|        | HYDRAULIC GRADE LINE              |
|        | DENOTES 20mm CLASS 3 FCR BACKFILL |



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| REV | DESCRIPTION        | DATE     | DRN.   | APP. | REV | DESCRIPTION | DATE | DRN. | APP. |
|-----|--------------------|----------|--------|------|-----|-------------|------|------|------|
| P4  | ROAD NAMES AMENDED | 30.09.19 | DC     | TN   |     |             |      |      |      |
| P3  | DRAINAGE AMENDMENT | 22.08.19 | M.F.J. | T.N. |     |             |      |      |      |
| P2  | COUNCIL ISSUE      | 10.07.19 | CC     | TN   |     |             |      |      |      |
| P1  | TENDER ISSUE       | 02.05.19 | JM     | TN   |     |             |      |      |      |



Designed Date: J.MONGAN 31.10.2018  
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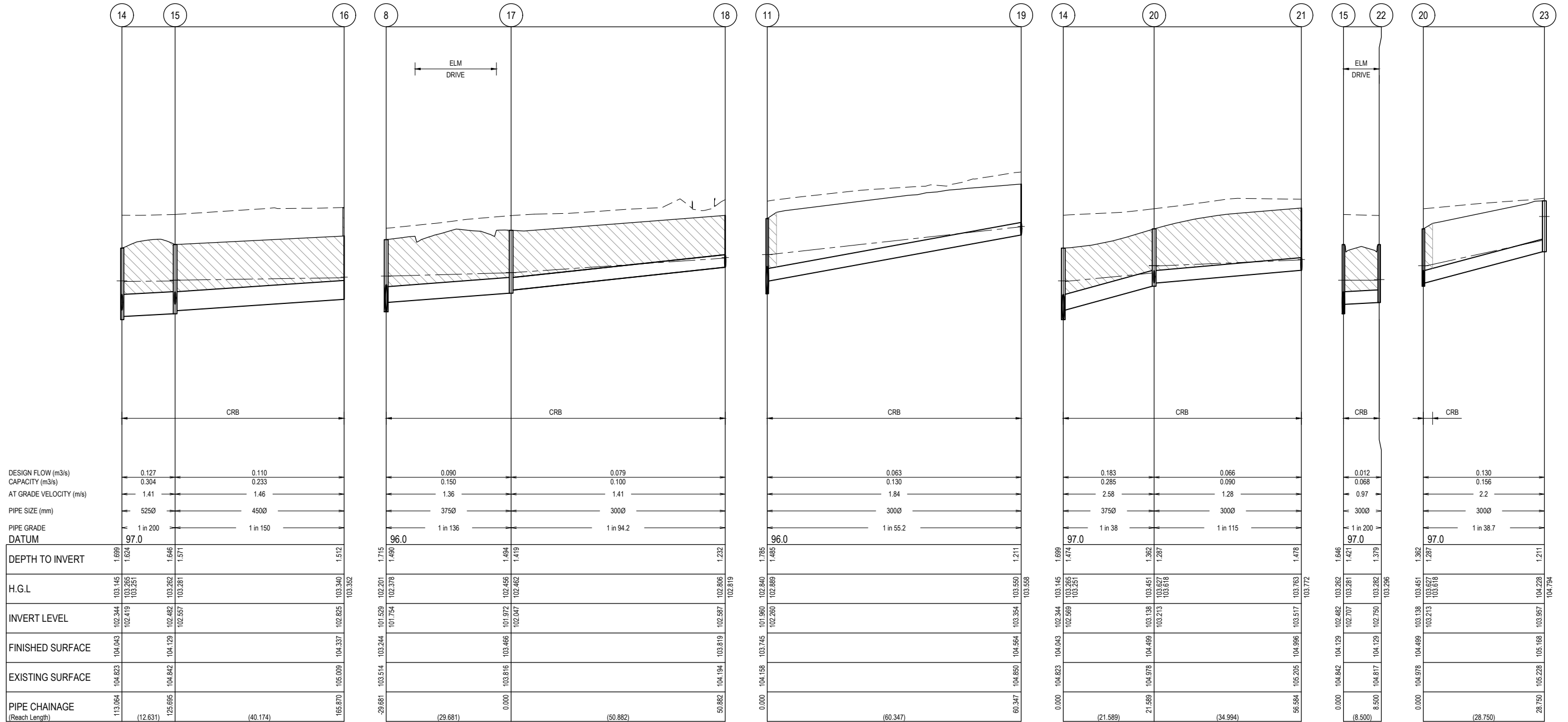
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| Project Details |          | BOTANIA ESTATE<br>STAGE 01A<br>MELTON CITY COUNCIL |     | Sheet 16 of 20               |  |
| Drawing Title   |          | DRAINAGE LONGITUDINAL SECTIONS<br>(SHEET 1 OF 2)   |     | Scale<br>1:500 H 1:50 V @ A1 |  |
| Project Ref     | Stage No | Drawing No   | Rev |                              |  |
| 1700987         | 01A      | 400  | P4  |                              |  |



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Nihal Jayasekara  
ENGINEERING SERVICES  
Date: 6/2/2020

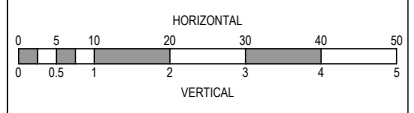
**NOTES:**  
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

| LEGEND |                                   |
|--------|-----------------------------------|
|        | EXISTING SURFACE                  |
|        | DESIGN SURFACE                    |
|        | DRAINAGE PIPE/PIT                 |
|        | EXISTING DRAINAGE PIPE/PIT        |
|        | HYDRAULIC GRADE LINE              |
|        | DENOTES 20mm CLASS 3 FCR BACKFILL |



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| REV | DESCRIPTION        | DATE     | DRN. | APP. | REV | DESCRIPTION | DATE | DRN. | APP. |
|-----|--------------------|----------|------|------|-----|-------------|------|------|------|
| P3  | DRAINAGE AMENDMENT | 22.08.19 | J.M. | T.N. |     |             |      |      |      |
| P2  | COUNCIL ISSUE      | 10.07.19 | CC   | TN   |     |             |      |      |      |
| P1  | TENDER ISSUE       | 02.05.19 | JM   | TN   |     |             |      |      |      |



Designed Date: J.MONGAN 31.10.2018  
Drawn: J.MONGAN  
Approved Date: T.NAMAR 31.10.2018  
PS Number: PS823199J



Project Details: BOTANIA ESTATE STAGE 01A MELTON CITY COUNCIL  
Drawing Title: DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 2)

Sheet 17 of 20  
Scale: 1:500 H 1:50 V @ A1  
Project Ref: 1700987 Stage No: 01A Drawing No: 401 Rev: P3

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**APPROVED  
DETAILED ENGINEERING PLANS**  
Nihal Jayasekara  
ENGINEERING SERVICES  
Date: 6/2/2020

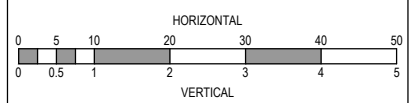
**NOTES:**  
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

| LEGEND |                                   |
|--------|-----------------------------------|
|        | EXISTING SURFACE                  |
|        | DESIGN SURFACE                    |
|        | DRAINAGE PIPE/PIT                 |
|        | EXISTING DRAINAGE PIPE/PIT        |
|        | HYDRAULIC GRADE LINE              |
|        | DENOTES 20mm CLASS 3 FCR BACKFILL |

| PIT SCHEDULE |                |                  |                  |            |                    |        |         |               |       |  |
|--------------|----------------|------------------|------------------|------------|--------------------|--------|---------|---------------|-------|--|
| PIT NAME     | TYPE           | INTERNAL         |                  | INLET      |                    | OUTLET |         | PIT SETOUT RL | DEPTH | REMARKS  |
|              |                | WIDTH            | LENGTH           | DIA        | INV LEV            | DIA    | INV LEV |               |       |  |
| 5            | SIDE ENTRY PIT | 600(t)<br>900(b) | 900(t)<br>900(b) | 375        | 101.251<br>101.351 | 750    | 101.201 | 103.031       | 1.829 | HAUNCHED - REFER TO EDCM FIGURE 601 FOR STANDARD DRAWING |
| 6            | JUNCTION PIT   | 600              | 900              | 375        | 101.670            | 375    | 101.620 | 103.956       | 2.336 | REFER TO EDCM FIGURE 605 FOR STANDARD DRAWING            |
| 7            | END PIPE       | 600              | 900              |            |                    | 375    | 101.985 | 104.393       | 2.409 | PIPE TO BE CAPPED  |
| 8            | JUNCTION PIT   | 600(t)<br>900(b) | 900(t)<br>900(b) | 600<br>375 | 101.579<br>101.754 | 600    | 101.529 | 103.244       | 1.715 | HAUNCHED - REFER TO EDCM FIGURE 605 FOR STANDARD DRAWING |
| 9            | SIDE ENTRY PIT | 600              | 900              | 600        | 101.740            | 600    | 101.690 | 103.618       | 1.928 | REFER TO EDCM FIGURE 601 FOR STANDARD DRAWING            |
| 10           | SIDE ENTRY PIT | 600              | 900              | 600        | 101.832            | 600    | 101.782 | 103.618       | 1.835 | REFER TO EDCM FIGURE 601 FOR STANDARD DRAWING            |
| 11           | JUNCTION PIT   | 600              | 900              | 600<br>300 | 102.010<br>102.260 | 600    | 101.960 | 103.745       | 1.785 | REFER TO EDCM FIGURE 605 FOR STANDARD DRAWING            |
| 12           | JUNCTION PIT   | 600              | 900              | 600        | 102.189            | 600    | 102.139 | 103.875       | 1.735 | REFER TO EDCM FIGURE 605 FOR STANDARD DRAWING            |
| 13           | SIDE ENTRY PIT | 600              | 900              | 600        | 102.302            | 600    | 102.252 | 104.043       | 1.791 | REFER TO EDCM FIGURE 601 FOR STANDARD DRAWING            |
| 14           | SIDE ENTRY PIT | 600              | 900              | 525<br>375 | 102.419<br>102.569 | 600    | 102.344 | 104.043       | 1.699 | REFER TO EDCM FIGURE 601 FOR STANDARD DRAWING            |
| 15           | SIDE ENTRY PIT | 600              | 900              | 450<br>300 | 102.557<br>102.707 | 525    | 102.482 | 104.129       | 1.646 | REFER TO EDCM FIGURE 601 FOR STANDARD DRAWING            |
| 16           | END PIPE       | 100              | 100              |            |                    | 450    | 102.825 | 104.337       | 1.512 | PIPE TO BE CAPPED  |
| 17           | SIDE ENTRY PIT | 600              | 900              | 300        | 102.047            | 375    | 101.972 | 103.466       | 1.494 | REFER TO EDCM FIGURE 601 FOR STANDARD DRAWING            |
| 18           | END PIPE       | 100              | 100              | 300        | 102.587            | 300    | 102.587 | 103.819       | 1.232 | PIPE TO BE CAPPED  |
| 19           | END PIPE       | 100              | 100              | 300        | 103.354            | 300    | 103.354 | 104.564       | 1.211 | PIPE TO BE CAPPED  |
| 20           | JUNCTION PIT   | 600              | 900              | 300<br>300 | 103.213<br>103.213 | 375    | 103.138 | 104.499       | 1.362 | REFER TO EDCM FIGURE 605 FOR STANDARD DRAWING            |
| 21           | END PIPE       | 100              | 100              | 300        | 103.517            | 300    | 103.517 | 104.996       | 1.478 | PIPE TO BE CAPPED  |
| 22           | SIDE ENTRY PIT | 600              | 900              |            |                    | 300    | 102.750 | 104.129       | 1.379 | REFER TO EDCM FIGURE 601 FOR STANDARD DRAWING            |
| 23           | JUNCTION PIT   | 600              | 900              |            |                    | 300    | 103.957 | 105.168       | 1.211 | REFER TO EDCM FIGURE 605 FOR STANDARD DRAWING            |

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| P3  | DRAINAGE AMENDMENT | 22.08.19 | M.F.J. | T.N. |     |             |      |      |      |  |
| P2  | COUNCIL ISSUE      | 10.07.19 | CC     | TN   |     |             |      |      |      |  |
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| REV   | DESCRIPTION        | DATE     | DRN.   | APP. | REV | DESCRIPTION | DATE | DRN. | APP. |  |



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PS Number: PS823199J

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Project Details: BOTANIA ESTATE STAGE 01A MELTON CITY COUNCIL  
Drawing Title: PIT SCHEDULE  
Project Ref: 1700987  
Stage No: 01A  
Drawing No: 402  
Rev: P3

Sheet 18 of 20  
Scale: 1:500 H 1:50 V @ A1