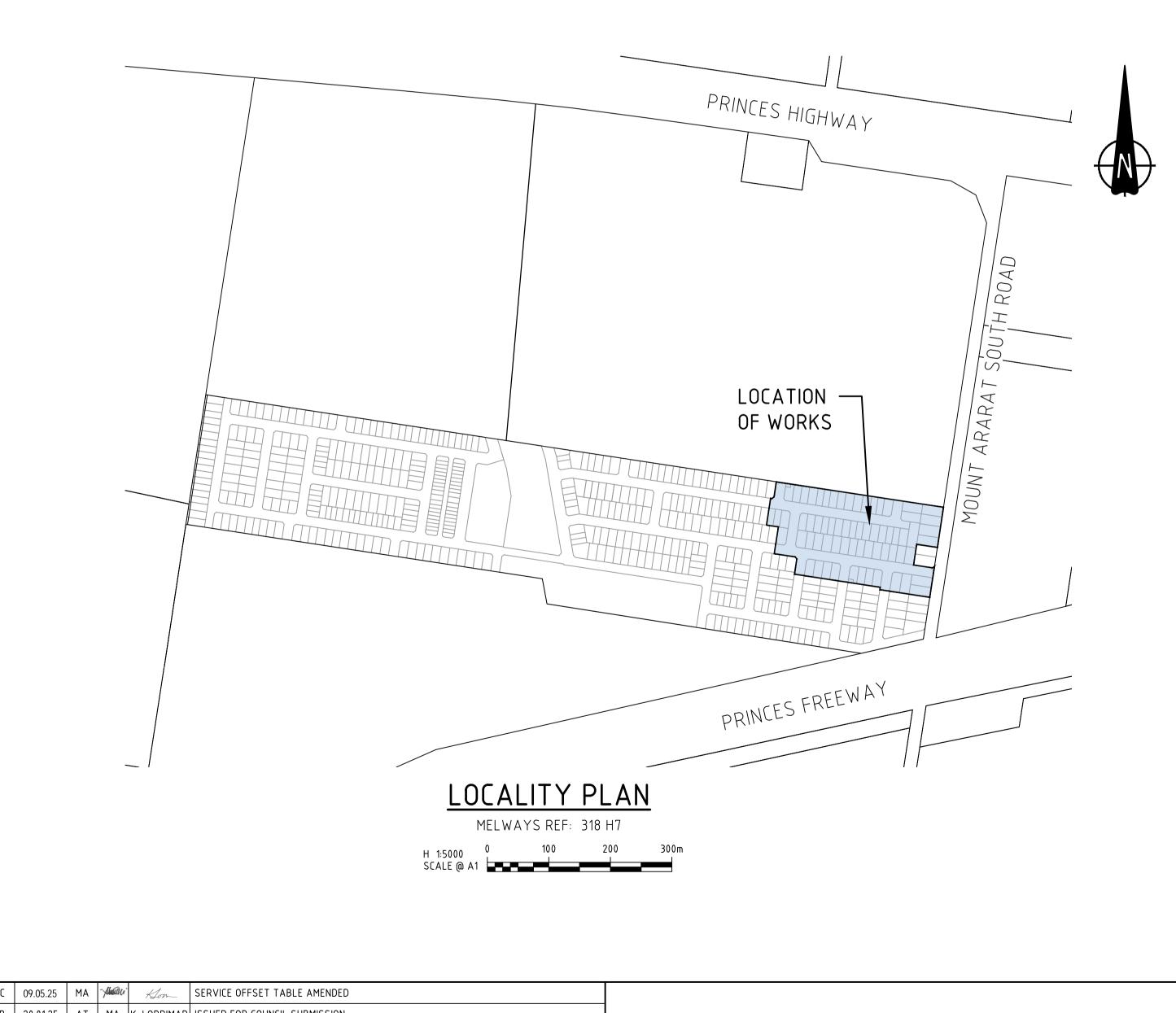
KALA ESTATE STAGE 01 SUBDIVISIONAL WORKS FOR SIG GROUP



| L | 09.05.25 | MA | /output/o | KLon | SERVICE OFFSET TABLE AMENDED |
|-----|----------|-----|-----------|-------------|-------------------------------|
| В | 20.01.25 | AT | MA | K. LORRIMAR | ISSUED FOR COUNCIL SUBMISSION |
| А | 13.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
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| REV | DATE | DRN | CKD | APP | AMENDMENT |

| SHEET LIST TABLE | | | | |
|------------------|---|--|--|--|
| SHEET NUMBER | DESCRIPTION | | | |
| 3086-01-001 | COVER SHEET | | | |
| 3086-01-010 | GENERAL NOTES AND PAVEMENT DETAILS | | | |
| 3086-01-011 | STANDARD DETAILS | | | |
| 3086-01-020 | TYPICAL CROSS SECTIONS (SHEET 1 OF 2) | | | |
| 3086-01-021 | TYPICAL CROSS SECTIONS (SHEET 2 OF 2) | | | |
| 3086-01-100 | LAYOUT PLAN (SHEET 1 OF 2) | | | |
| 3086-01-101 | LAYOUT PLAN (SHEET 2 OF 2) | | | |
| 3086-01-102 | OUTLET SWALE SETOUT (SHEET 1 OF 4) | | | |
| 3086-01-103 | OUTLET SWALE SETOUT (SHEET 2 OF 4) | | | |
| 3086-01-104 | OUTLET SWALE SETOUT (SHEET 3 OF 4) | | | |
| 3086-01-105 | OUTLET SWALE SETOUT (SHEET 4 OF 4) | | | |
| 3086-01-150 | EARTHWORKS PLAN | | | |
| 3086-01-200 | ROAD LONGITUDINAL SECTIONS (SHEET 1 OF 3) | | | |
| 3086-01-201 | ROAD LONGITUDINAL SECTIONS (SHEET 2 OF 3) | | | |
| 3086-01-202 | ROAD LONGITUDINAL SECTIONS (SHEET 3 OF 3) | | | |
| 3086-01-250 | ROAD CROSS SECTIONS (SHEET 1 OF 6) | | | |

| STREET NAME | G | GAS | | NON-DRINKING WATER | | G WATER | TELCO | | ELECTRICITY | | SEWER | |
|-----------------------------|------|--------|------|-----------------------|------|---------|-------|--------|-------------|--------|-------|--------|
| | SIDE | OFFSET | SIDE | OFFSET | SIDE | OFFSET | SIDE | OFFSET | SIDE | OFFSET | SIDE | OFFSET |
| KALAMATA BOULEVARD | - | - | Ν | 2.30 | Ν | 2.80 | S | 1.85 | S | 2.60 | S | 1 |
| BRANCH ROAD | _ | - | W | 2.30 | W | 2.80 | E | 1.85 | E | - | _ | - |
| DELPHI ROAD | _ | - | W | 2.30 | W | 2.80 | E | 1.85 | E | - | _ | - |
| LESTRA WAY | _ | - | W | 2.30 | W | 2.80 | E | 1.85 | E | 2.60 | E | 1 |
| MT ARARAT SOUTH ROAD | - | - | W | 2.30 | W | 2.80 | W | 3.80 | W | 4.30 | _ | - |
| OLEA WAY | _ | - | E | 2.30 | E | 2.80 | W | 1.85 | W | 2.60 | _ | - |
| OLIVE GROVE | _ | - | E | 2.30 | E | 2.80 | W | 1.85 | W | 2.60 | _ | _ |
| TART STREET | _ | - | S | 2.30 | S | 2.80 | Ν | 1.85 | Ν | 2.60 | Ν | 1 |
| TART STREET (LOT 123 & 124) | _ | _ | E | 2.30 | E | 2.80 | W | 1.85 | W | 2.60 | _ | - |
| TART STREET (LOT 126 & 127) | _ | _ | S | 2.30 | S | 2.80 | Ν | 0.50 | S | 1.00 | _ | _ |

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| SHEET NUMBER | DESCRIPTION |
|--------------|---|
| 3086-01-251 | ROAD CROSS SECTIONS (SHEET 2 OF 6) |
| 3086-01-252 | ROAD CROSS SECTIONS (SHEET 3 OF 6) |
| 3086-01-253 | ROAD CROSS SECTIONS (SHEET 4 OF 6) |
| 3086-01-254 | ROAD CROSS SECTIONS (SHEET 5 OF 6) |
| 3086-01-255 | ROAD CROSS SECTIONS (SHEET 6 OF 6) |
| 3086-01-300 | INTERSECTION DETAILS (SHEET 1 OF 4) |
| 3086-01-301 | INTERSECTION DETAILS (SHEET 2 OF 4) |
| 3086-01-302 | INTERSECTION DETAILS (SHEET 3 OF 4) |
| 3086-01-303 | INTERSECTION DETAILS (SHEET 4 OF 4) |
| 3086-01-350 | SIGNAGE AND LINEMARKING PLAN |
| 3086-01-400 | DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 4) |
| 3086-01-401 | DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 4) |
| 3086-01-402 | DRAINAGE LONGITUDINAL SECTIONS (SHEET 3 OF 4) |
| 3086-01-403 | DRAINAGE LONGITUDINAL SECTIONS (SHEET 4 OF 4) |
| 3086-01-420 | DRAINAGE PIT SCHEDULE |

SHEET LIST TABLE

| I | KALA ESTATE - STAGE 01 | | | | | | | |
|------------------------------|-------------------------------------|-------------|-------------|---------------|-----------------|--|--|--|
| | COVER SHEET | - | | | \triangleleft | | | |
| ^{gned} I. SANSOM | MUNICIPALITY CARDINIA SHIRE COUNCIL | | | | | | | |
| e AS SHOWN | ^{рр №.} Т220227 | DRAWING No. | 3086-01-001 | REVISION C | Ö | | | |

NOTES:

- GENERAL
- 1. ALL LEVELS SHOWN ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.) AND ALL CO-ORDINATES ARE TO MAP GRID AUSTRALIA (MGA) ZONE 55
- 2. THE PLAN OF SUBDIVISION PREPARED BY MNG WILL BE PEGGED BY THE SURVEYOR. FOR SPECIFIC LOT DIMENSIONS REFER TO PLAN OF SUBDIVISION NO: <u>PS 908880E</u> LATEST VERSION.
- 3. ALL ROAD AND DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH AS2124–1992, THE ROAD & DRAINAGE SPECIFICATION, STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCIL.
- 4. THE CONTRACTOR IS TO CHECK BENCH MARKS PRIOR TO THE COMMENCEMENT OF WORKS AND IMMEDIATELY REPORT ANY DISCREPANCIES. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM's THEREAFTER.
- 5. FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED TO WITHIN 100mm OF REQUIRED LEVEL AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. FILLING UNDER LEVEL 1 SUPERVISION TO BE CLEAN CLAY COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1289.5.1.1-1993. TESTING TO COMPLY WITH AS1289.0-2000.
- 6. EXISTING DAMS ARE TO BE BREACHED, DRAINED, DE-SLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED APPROVED AND LEVELLED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. FILL IS TO BE PLACED AND COMPACTED AS SPECIFIED AND TO LEVEL 1 SUPERVISION. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS OF BETWEEN 85% AND 125% OF OPTIMUM AND APPROPRIATE TO THE TYPE OF COMPACTION EQUIPMENT USED. THE FILL SHALL BE UNIFORMLY COMPACTED IN LAYERS NOT EXCEEDING 300mm DEPTH TO A MINIMUM OF 95% STANDARD DRY DENSITY.
- 7. BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5M DEEP, NOTICE OF SUCH PROPOSAL IS TO BE SENT TO THE CHIEF MINING INSPECTOR OCCUPATIONAL HEALTH & SAFETY AUTHORITY IN ACCORDANCE WITH THE WORK SAFE REGULATIONS – "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" CODE OF PRACTICE № 8 1988 . A FOREMAN QUALIFIED AS A MINES MANAGER MUST BE IN ATTENDANCE AT ALL TIMES DURING SUCH EXCAVATIONS
- 8. THE CONTRACTOR SHALL COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND ASSOCIATED CODE OF PRACTICE.
- 9. PRIOR TO WORKS BEING PLACED ON MAINTENANCE ALL AREAS OF THE SUBDIVISION EXPOSED BY DE-VEGETATION INCLUDING NATURE STRIPS, LOTS AND RESERVES ARE TO BE HYDRO-SEEDED UNLESS OTHERWISE SPECIFIED.
- 10. ALL CONCRETE TO BE 32MPa FOR PITS AND 25 MPa IN OTHER APPLICATIONS UNLESS SPECIFIED OTHERWISE. ALL CONCRETE OVER 125mm THICK TO BE VIBRATED USING MECHANICAL VIBRATORS.
- 11. FOR CONCRETE ROAD PAVEMENTS, CONCRETE JOINTING DETAILS ARE TO BE PROVIDED IN ACCORDANCE WITH "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" (1997-CCAA).
- 12. ALL CHAINAGES REFER TO ROAD RESERVE CENTRELINES EXCEPT, IN COURT HEADS, DRAINAGE OUTFALLS AND KERB RETURNS CHAINAGES REFER TO LIP OF KERB.
- 13. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD TO A STANDARD ACCEPTABLE BY THE SUPERINTENDENT.
- 14. ANY BUILDINGS, TROUGHS, FENCES, DEBRIS AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER OR UNLESS OTHERWISE SPECIFIED. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- 15. NO TOPSOIL IS TO BE REMOVED FROM SITE WITHOUT THE CONSENT OF THE SUPERINTENDENT.
- 16. FOR PAVEMENT RECOMMENDATIONS AND SOIL CONDITIONS REFER TO GEOTECH REPORT
- 17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SITE GRADING AND DRAINAGE AND TO PROTECT AND MAINTAIN SUBGRADES IN A SUITABLE CONDITION IN ORDER TO ACHIEVE THE COMPACTIONS SPECIFIED. SHOULD SUBGRADES BECOME SATURATED ANY UNSUITABLE MATERIAL IS TO BE REMOVED AND MADE GOOD WITH TYPE B GENERAL FILL AT THE CONTRACTORS COST.
- 18. IN NEW LANDSCAPE AREAS ALL REDUNDANT PAVEMENT MATERIAL SHALL BE REMOVED & REINSTATED WITH CLEAN FILL TO FINISHED SUBFACE LEVEL LINESS NOTED OTHERWISE ON THE LANDSCAPE PLANS REINSTATEMENT OF A MINIMUM 150mm OF CLEAN TOPSOIL SHALL BE PROVIDED TO ALL NATURE STRIP, LOT AND RESERVE.
- 19. ALL EXISTING TREES IN THE VICINITY OF THE TRAFFICABLE AREAS THAT ARE TO BE RETAINED SHALL BE PRUNED. ROOTS CUT AND SEALED WHERE THEY EXTEND BENEATH NEW WORKS, BY APPROPRIATELY QUALIFIED PERSONNEL. TREES TO BE REMOVED SHALL HAVE ALL ROOTS GRUBBED OUT AND BE MADE GOOD WITH COMPACTED FILL.
- 20. PRIOR TO COMPLETION, THE CONTRACTOR SHALL ENSURE THE SITE OF WORKS IS TIDIED AND OBTAIN A CLEARANCE FROM THE SUPERINTENDENT.
- 21. CONDITION OF EXISTING PAVEMENT SURROUNDING THE DEVELOPMENT TO BE RECORDED. ANY DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO BE REPAIRED TO COUNCIL'S SATISFACTION.
- 22. PRIOR TO PC, PROVIDE ALLOCATED STREET NUMBER ON THE KERB IN FRONT OF EACH LOT. THE KERBSIDE NUMBERS MUST BE 100mm WHITE LETTERING ON A BLACK BACKGROUND LOCATED ON THE FRONT OF KERB AT THE PROPERTY FRONTAGE TO COUNCIL SATISFACTION.
- 23. UPON COMPLETION OF CIVIL WORKS, CONTRACTOR SHALL PROVIDE AS CONSTRUCTED PLANS IN AutoCAD, D-SPEC AND R-SPEC IN DIGITAL FORMAT TO COUNCIL'S REQUIREMENT AND TO THE SATISFACTION OF ALL PARTIES.

ROADWORKS

- 24. FILL BATTERS SHALL GENERALLY BE 1 IN 6 AND CUT BATTERS 1 IN 6 MAXIMUM CUT BATTERS ARE TO BE STABILISED TO THE SATISFACTION OF THE ENGINEER. ALL NATURE STRIPS AND BATTERS SHALL BE COVERED WITH 100mm MIN. DEPTH TOPSOIL AND SEEDED WITH AN APPROVED SEED AND FERTILIZER MIXTURE AS PER EDCM GUIDELINES.
- 25. FOOTPATH EXPANSION JOINTS SHALL BE PLACED ON EITHER SIDE OF DRIVEWAY CROSSINGS. EACH JOINT IS TO BE DOWELLED WITH 3x10mm DIAMETER DOWELS WHICH ARE TO HAVE A GREASED SLEEVE OVER ONE END TO PERMIT SLIP. JOINTS ARE TO BE FILLED WITH AN APPROVED COMPOSITE MATERIAL OR PLASTIC FILLER.
- 26. ALL LINE MARKING IS TO BE APPLIED USING LONG LIFE THERMOPLASTIC PAINT, IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1742-1 AND AS 1742-2 AND COUNCIL REQUIREMENTS UNLESS OTHERWISE SPECIFIED. RRPM'S ARE TO BE INSTALLED IN ACCORDANCE WITH VICROADS AND/OR COUNCIL SPECIFICATIONS.
- 27. ALL TEMPORARY WARNING SIGNS DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS1742-3.
- 28. CONTRACTOR TO CONFIRM STREET NAME WITH COUNCIL/SUPERINTENDENT PRIOR TO MANUFACTURE OF STREET SIGNS
- 29. ANY WORKS WITHIN ROADWAYS SHALL SATISFY COUNCILS REQUIREMENTS FOR OCCUPANCY OF ROAD RESERVES.
- 30. WHERE PAVEMENT (INCLUDING FOOTPATHS AND VEHICLE CROSSINGS) IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL; AND CONSTRUCTED IN ACCORDANCE WITH AS1289.0-2000.
- 31. WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUBGRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL
- 32. WHEN WORKS ARE ON AN EXISTING ROAD THE CONTRACTOR SHALL OBTAIN ALL NECESSARY ROAD OPENING PERMITS AND AUTHORITY APPROVALS PRIOR TO COMMENCING WORKS.

DRAINAGE

33. DRAINAGE PITS ARE TO BE SET OUT FROM OFFSETS AND CO-ORDINATES. 34. PITS AT TANGENT POINTS OF KERB RADIALS ARE TO BE LOCATED IMMEDIATELY ADJACENT TO T.P

- 35. ALL DRAINS WITHIN ROAD RESERVE SHALL BE BACKFILLED WITH 20mm FCR CLASS 3. DRAINS UNDER ROAD PAVEMENT TO BE BACKFILLED WITH 20mm FCR CLASS 2 AS SHOWN ON THE DRAWINGS. COMPACTION SHALL BE IN ACCORDANCE WITH SPECIFICATION.
- 36. ALL DRAINAGE PIPE CLASSES ARE TO BE AS PER THE DRAINAGE LONGITUDINAL SECTIONS.
- 37. ALL PIPES ARE TO BE RUBBER RING JOINTED REINFORCED CONCRETE UNLESS OTHERWISE NOTED.
- 38. 100mm DIAMETER CORRUGATED AGRICULTURAL PIPE DRAINS (AG'S) ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, EDGE STRIP AND OTHER LOCATIONS WHERE SHOWN AND/OR DIRECTED BY THE ENGINEER.
- 39. PROPERTY INLETS WITHIN DRAINAGE EASEMENT ARE TO BE PLACED 1.00m FROM LOW CORNERS OF ALLOTMENTS UNLESS OTHERWISE SPECIFIED.
- 40.100mm DIA HOUSE DRAINS IN ROADS TO BE PLACED 5.5m FROM LOW CORNER OF ALLOTMENT UNLESS OTHERWISE SPECIFIED. HOUSE DRAINS MARKED "H" STENCILLED ON FACE OF KERB.
- 41. HOUSE DRAINS PASSING UNDERNEATH OR ADJACENT TO RETAINING WALLS SHALL BE CONSTRUCTED TO ACCOMMODATE INSPECTION OPENINGS AT APPROPRIATE INTERVALS, ENSURING EASY ACCESS FOR INSPECTION AND MAINTENANCE PURPOSES. CONTRACTOR SHALL ENSURE THAT THE INSPECTION OPENINGS UNDERNEATH RETAINING WALLS REMAIN ACCESSIBLE AND UNOBSTRUCTED.
- 42. PIPES LAID AT MINIMUM DEPTH ARE TO BE PROTECTED DURING CONSTRUCTION USING ADDITIONAL COVER OR A HIGHER CLASS PIPE IS TO BE INSTALLED.
- ENVIRONMENTAL CONTROL MEASURES 43.NO NATIVE VEGETATION SHALL BE DESTROYED, FELLED, LOPPED RING BARKED OR UPROOTED WITHOUT THE CONSENT OF THE RESPONSIBLE AUTHORITY.
- 44.ALL TREES ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS UNLESS OTHERWISE SPECIFIED.
- 45. PERMISSION IN WRITING IS REQUIRED FROM THE SUPERINTENDENT PRIOR TO THE REMOVAL OF ANY TREE EVEN IF MARKED FOR REMOVAL ON PLANS.
- 46. PRIOR TO REMOVAL, TREES ARE TO BE MARKED BY CONTRACTOR AND APPROVED BY COUNCIL OR SUPERINTENDENT.
- 47. CONTRACTOR TO PROVIDE ADEQUATE PROTECTION AGAINST SILT RUNOFF FROM THE SITE AS PART OF THE ENVIRONMENTAL MANAGEMENT PLAN (EMP).
- 48. NO POLLUTED AND/OR SEDIMENT LADEN RUNOFF IS TO BE DISCHARGED, DIRECTLY OR INDIRECTLY, INTO COUNCIL OR MELBOURNE WATER DRAINS OR WATERCOURSES.

SERVICES

- 49. WATER CONDUITS ARE TO BE INSPECTED BY THE SUPERVISING ENGINEER PRIOR TO BACKFILLING. CONDUITS TO EXTEND ON BOTH SIDES WHERE APPLICABLE TO 500mm BEYOND THE BUILDING LINE. ALL TRENCHES SHALL BE BACKFILLED WITH 20mm CLASS "2" FCR. WATER CONDUITS ARE TO BE LOCATED 1.4m FROM THE TITLE BOUNDARY OPPOSITE THE CROSSOVER OR 5.0m FROM THE TITLE BOUNDARY ADJACENT TO THE CROSSOVER, UNLESS OTHERWISE NOTED.
- 50. ELECTRICAL AND TELECOMMUNICATIONS CONDUITS TO EXTEND 500mm BEYOND BOTH SIDES OF KERB.
- 51. CONDUITS FOR TELECOMMUNICATIONS, GAS AND WATER SERVICES ARE TO BE POSITIONED TO AN APPROVED LOCATION UNLESS OTHERWISE NOTED AND ARE TO BE PLACED AT RIGHT ANGLES TO THE KERB AND SERVICE ALIGNMENT. TELECOMMUNICATIONS, GAS AND WATER CONDUITS ARE TO BE 50mm DIA PVC PIPES, CLASS 12. CONDUITS UNDER FOOTPATHS TO BE REFERENCED ON BACK OF PATH.
- 52. SERVICE TRENCHES NEAR FOOTPATH SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL
- 53. ALL EXCAVATION FOR SERVICES MUST BE CONTAINED WITHIN EASEMENTS OR ROAD RESERVES. ANY EXCAVATION OUTSIDE THESE LIMITS MUST BE BACKFILLED WITH CLASS 3 OR CLASS 2 FCR AT 95% MODIFIED COMPACTION UNLESS NOTED OTHERWISE.
- 54. BACKFILL MATERIAL FOR CONDUITS UNDER ROADS SHALL BE CLASS 3 OR CLASS 2 FCR (20 MM NOMINAL SIZE) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 55. ALL SERVICE TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH COMPACTED CLASS 3 OR CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND K&CH AND PARKING BAYS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- 56. EXISTING SERVICE LOCATIONS SHOWN HAVE BEEN OBTAINED FROM DIAL BEFORE YOU DIG RECORDS AND/OR SITE PLANS. EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT. PRIOR TO THE COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES IN THE VICINITY OF PROPOSED WORKS AND UNDERTAKE ANY ON SITE INSPECTION WITH SERVICE AUTHORITIES AS NECESSARY. ANY DAMAGE CAUSED TO SERVICE AUTHORITIES ASSETS WHETHER SHOWN ON CONSTRUCTION PLANS OR NOT IS TO BE THE RESPONSIBILITY OF THE CONTRACTOR
- 57. ALL EXISTING PITS AND SERVICE FITTINGS THAT ARE TO REMAIN WITHIN THE PAVEMENT AREAS SHALL BE REBUILT TO MATCH PROPOSED LEVELS AND WHERE APPLICABLE FITTED WITHIN AN APPROPRIATE HEAVY DUTY. AUTHORITY APPROVED COVER. ELSEWHERE EXISTING SERVICES SHALL BE ADJUSTED TO SUIT NEW ADJACENT LEVELS. THE RELEVANT AUTHORITY IS TO BE NOTIFIED PRIOR TO ANY WORKS ON THEIR ASSETS AND SERVICES ARE TO BE ADJUSTED TO THE RELEVANT AUTHORITY REQUIREMENTS.

CONSTRUCTION MANAGEMENT

- 58. CONTRACTOR SHALL BE REQUIRED PRIOR TO COMMENCING WORKS TO SUBMIT THE FOLLOWING DOCUMENTS:
- PROJECT CONSTRUCTION PLAN
- ENVIRONMENTAL MANAGEMENT PLAN OH&S RISK ASSESSMENT
- SITE MANAGEMENT PLAN
- PROGRAM OF WORKS
- COMPACTION TEST PLAN FOR ALL PAVEMENTS, FILLED AREAS AND DRAINAGE WORKS AND ALL OTHER RELEVANT INSPECTION AND TEST PLANS

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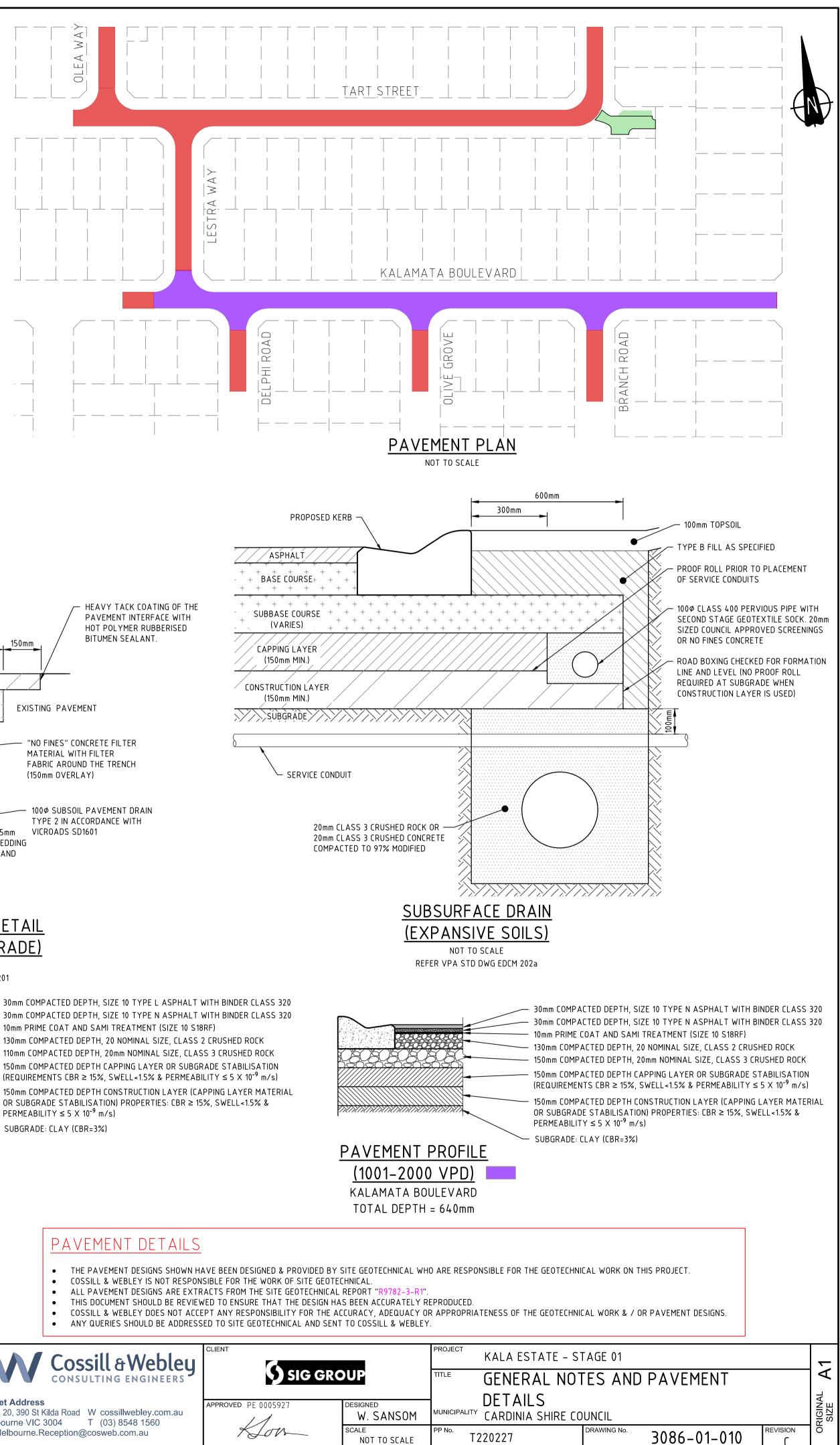
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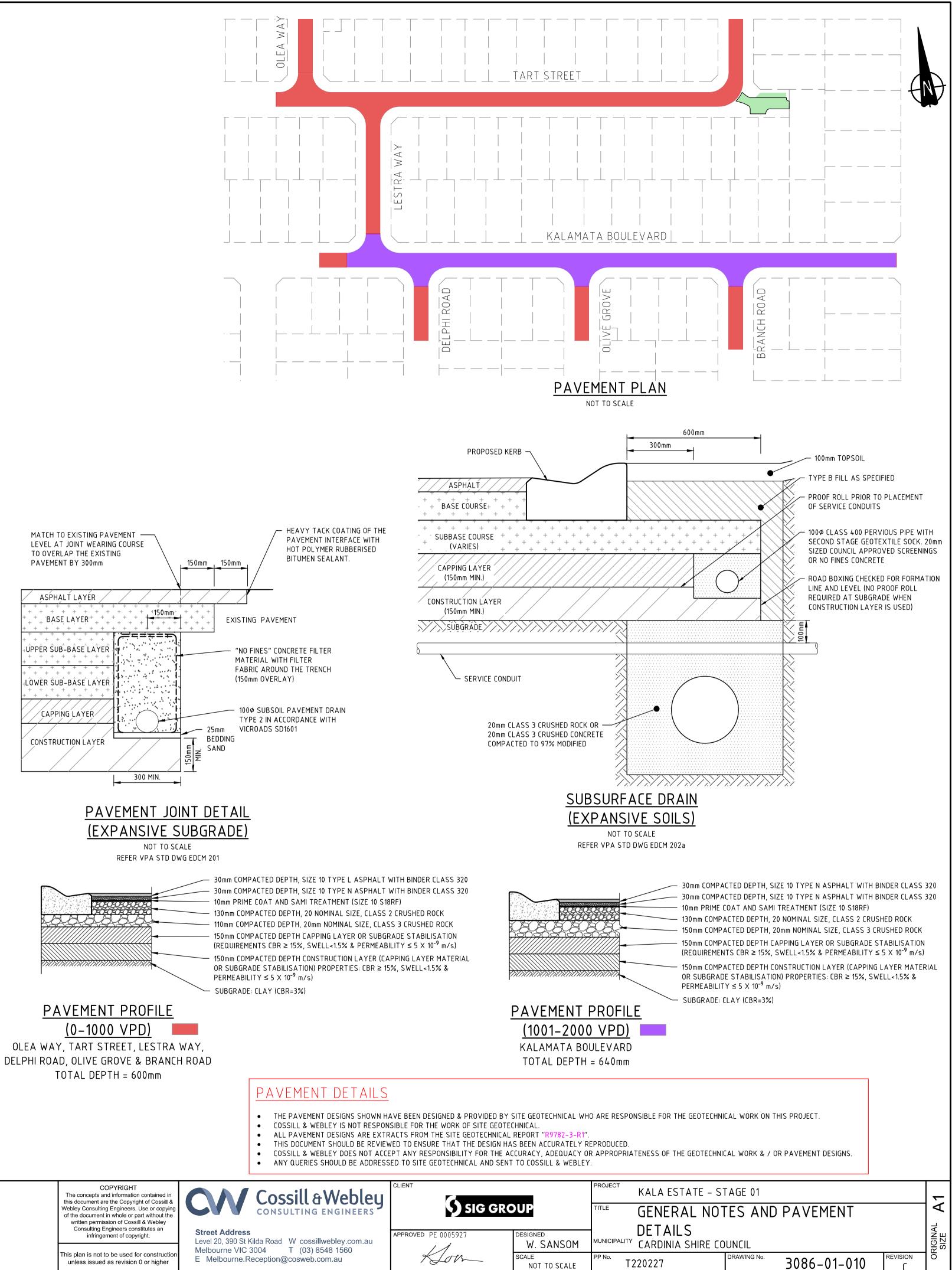


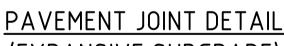
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| | 20.01.25 | AT | MA | K. LORRIMAR | ISSUED FOR COUNCIL SUBMISSION |
| | 13.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
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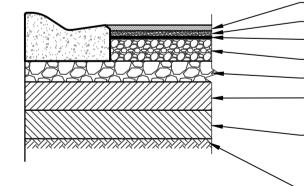
nm THICK CONCRETE (f'c = 32MPa, f'cf = 4MPa) mm THICK, 20mm NOMINAL SIZE CEMENT ATED CRUSHED ROCK (E=500MPa)

mm THICK (THICKNESS TO BE CONFIRMED DURING ISTRUCTION) CONSTRUCTION LAYER (CAPPING (ER MATERIAL OR SUBGRADE STABILISATION) PERTIES: CBR \geq 15.0%, SWELL < 1.5%, $\mathsf{MEABILITY} \leq 5 \times 10^{-9} \text{ m/s}$ GRADE: CLAY (CBR=3%)







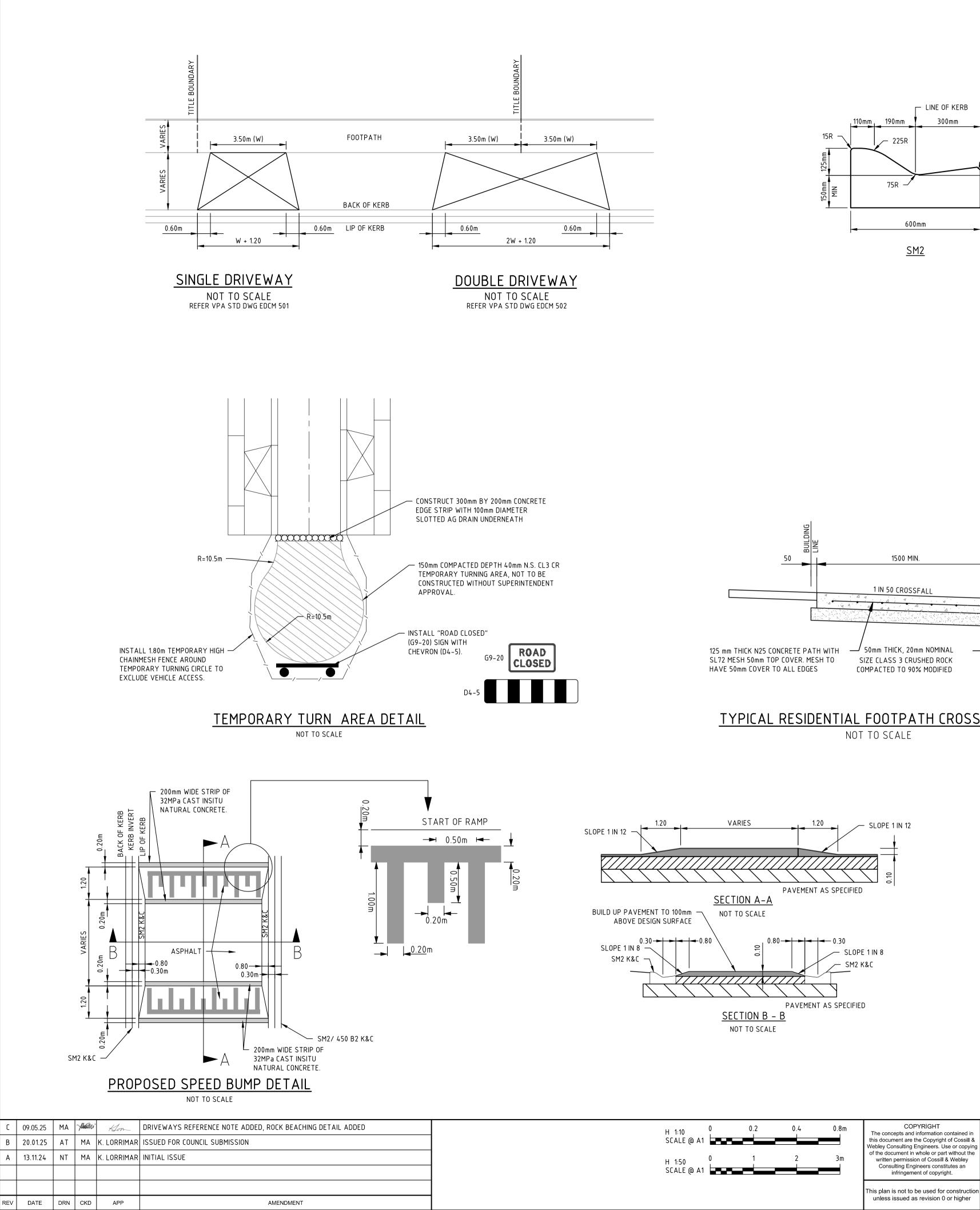


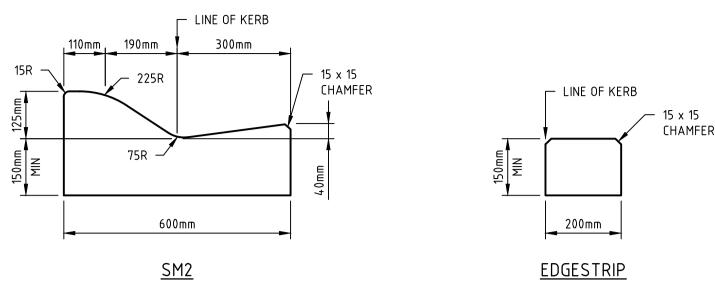




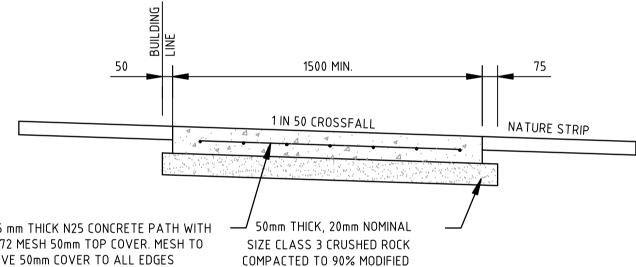




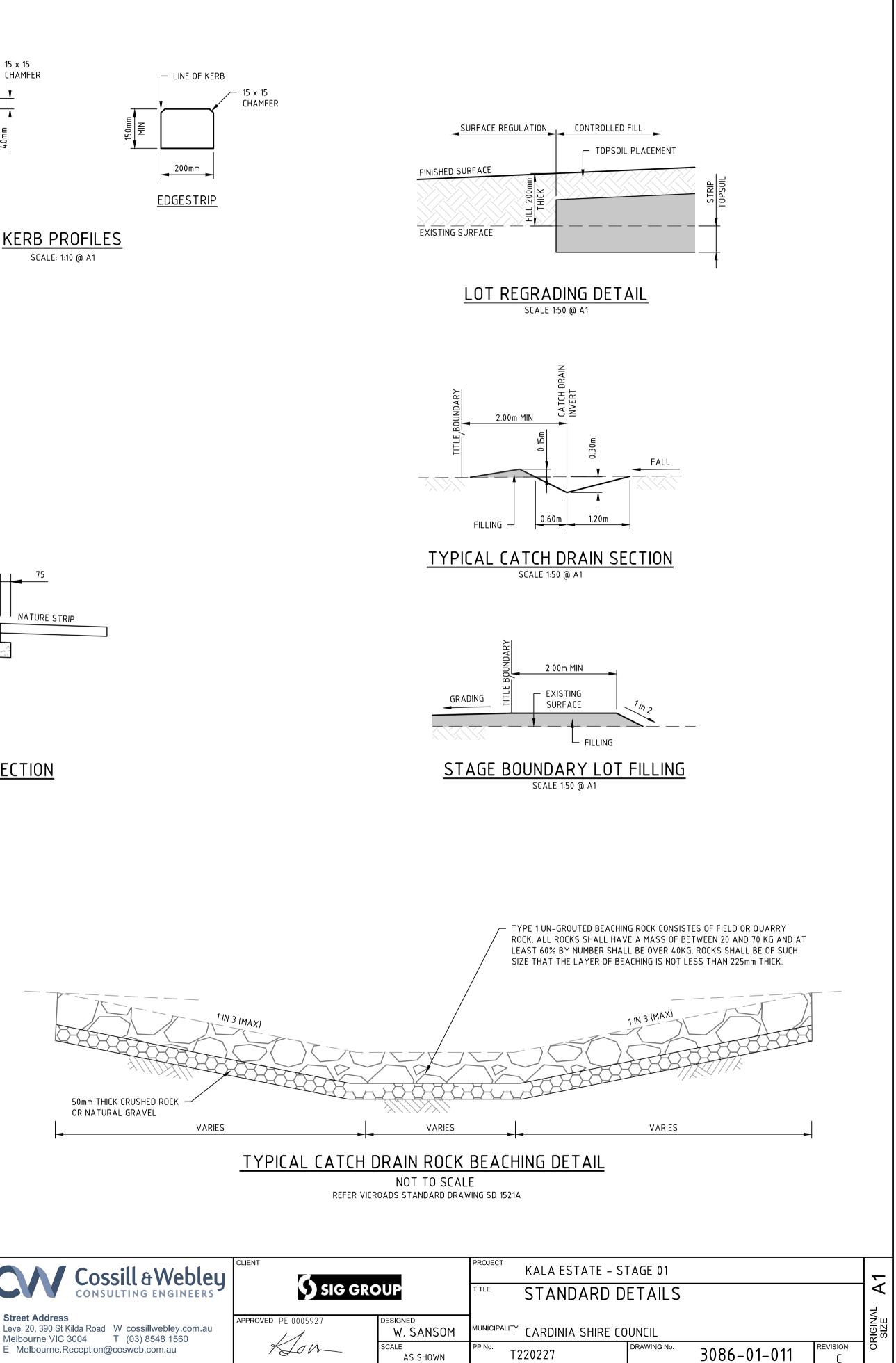






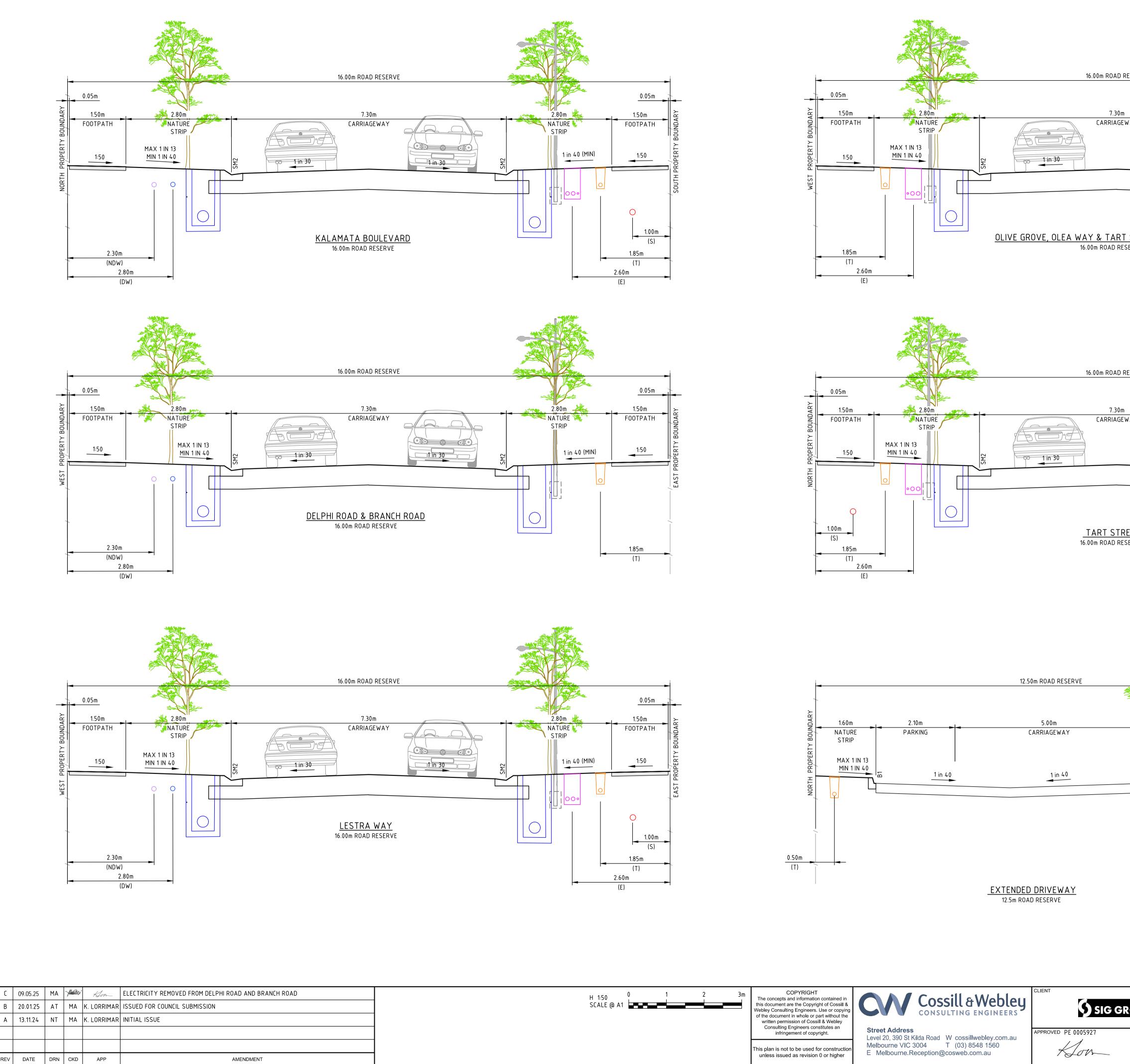


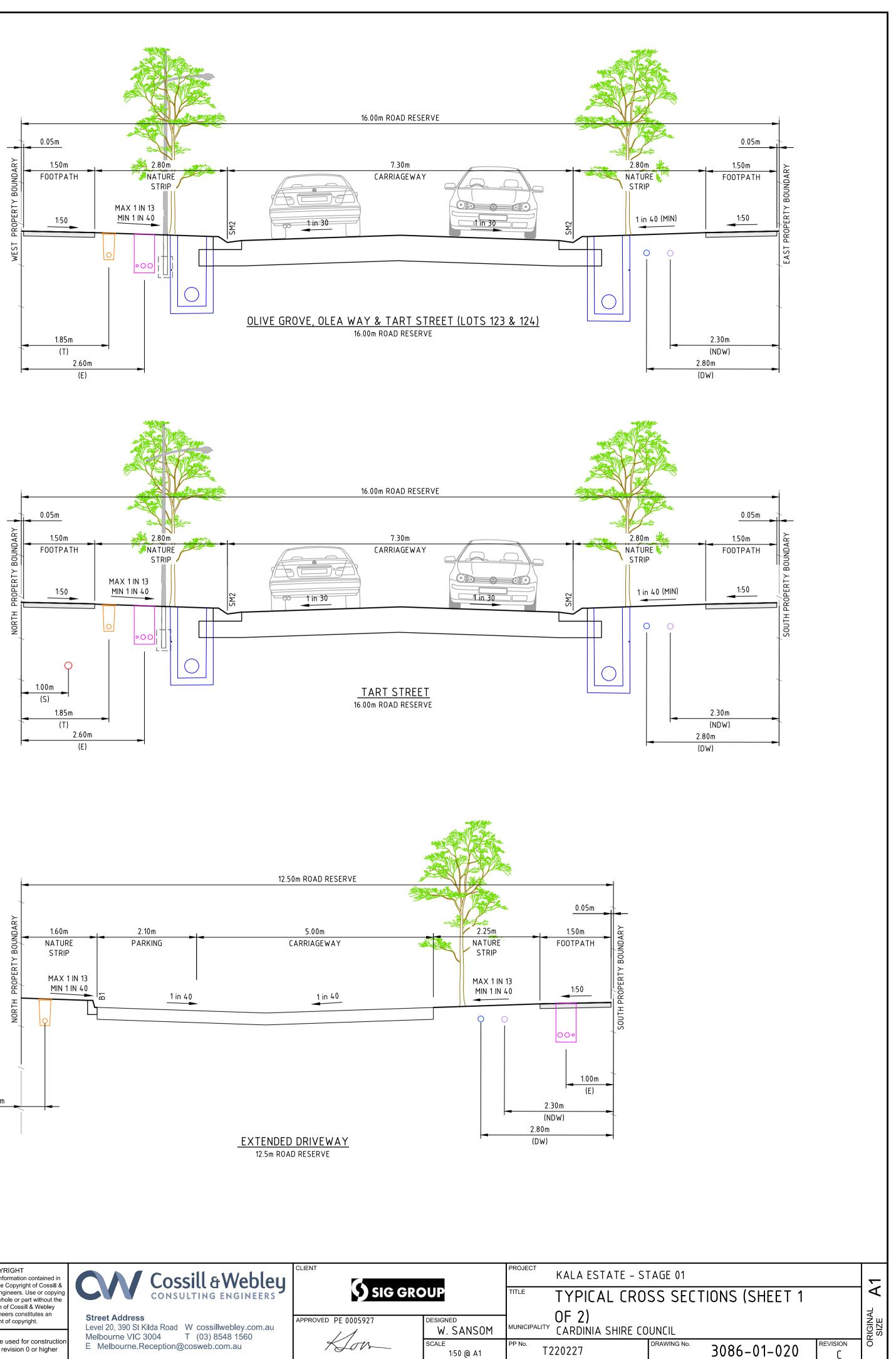


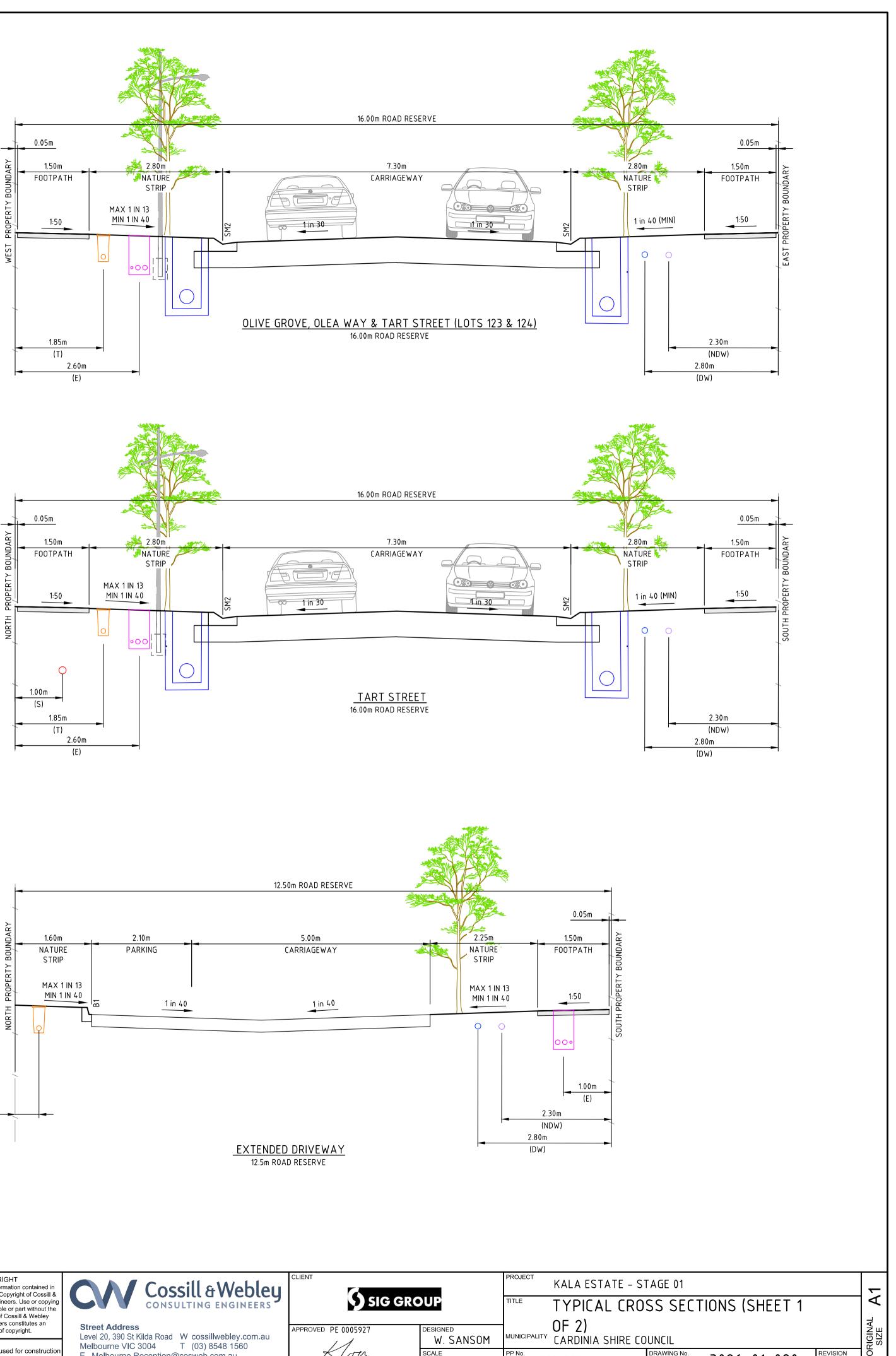


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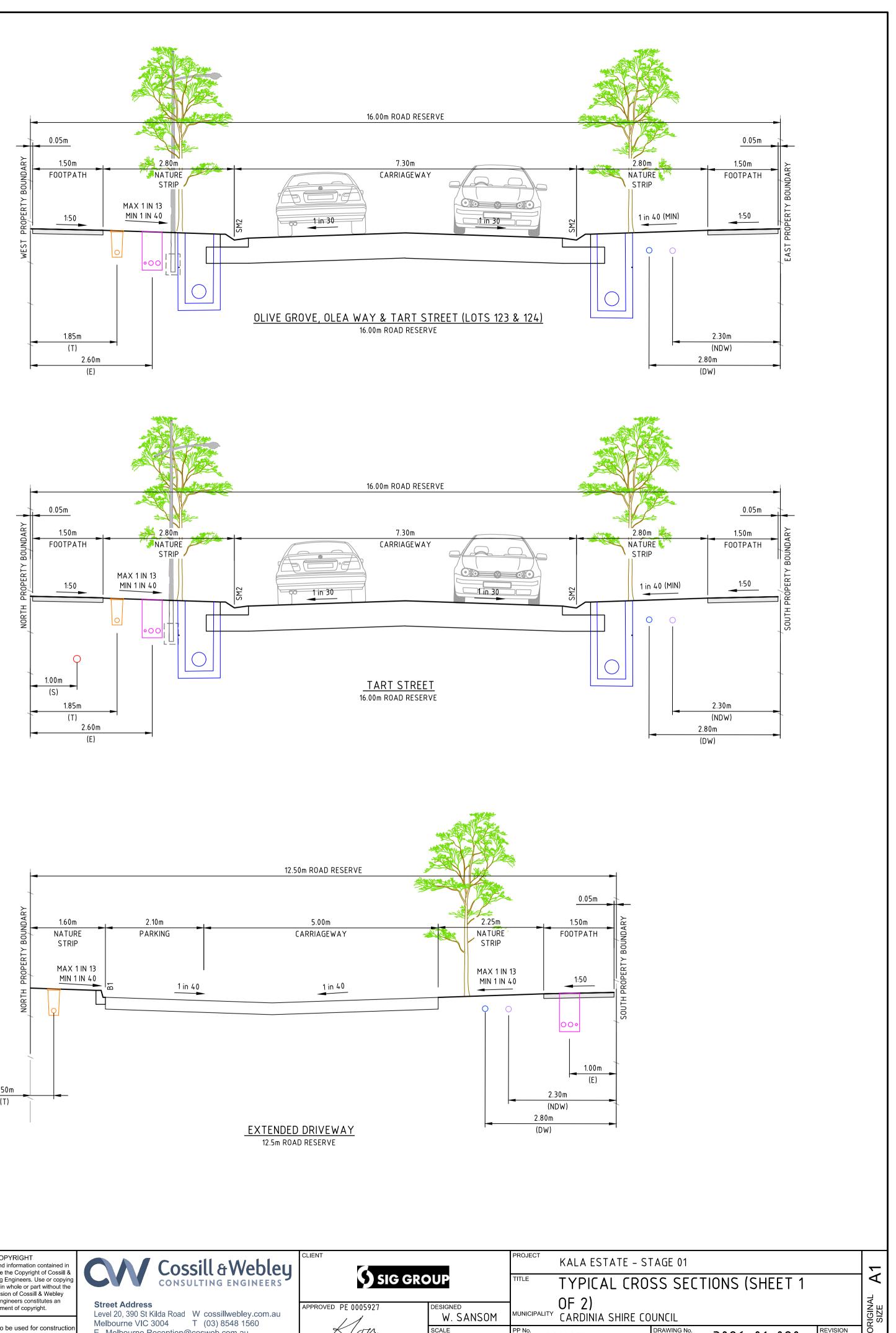


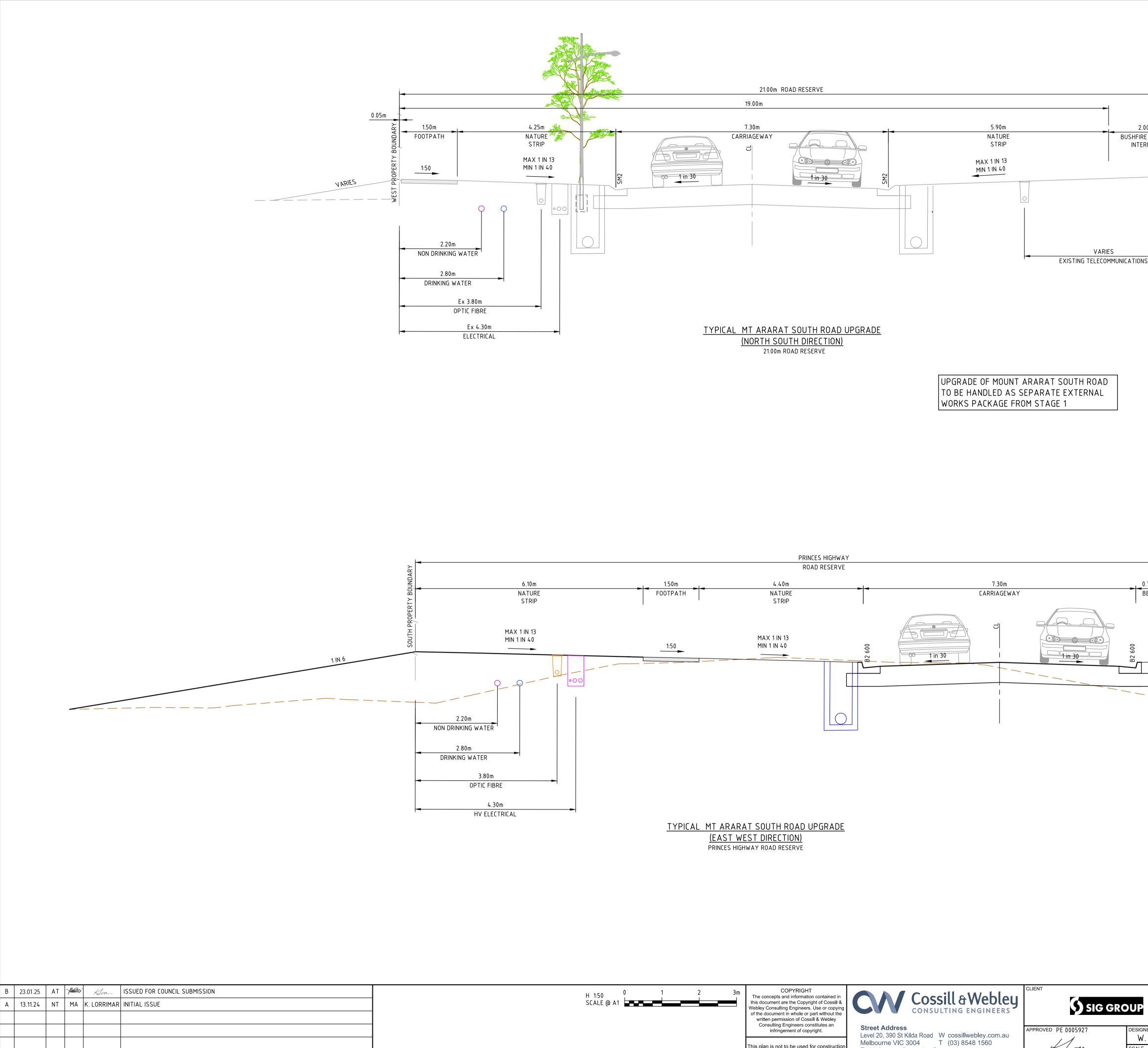






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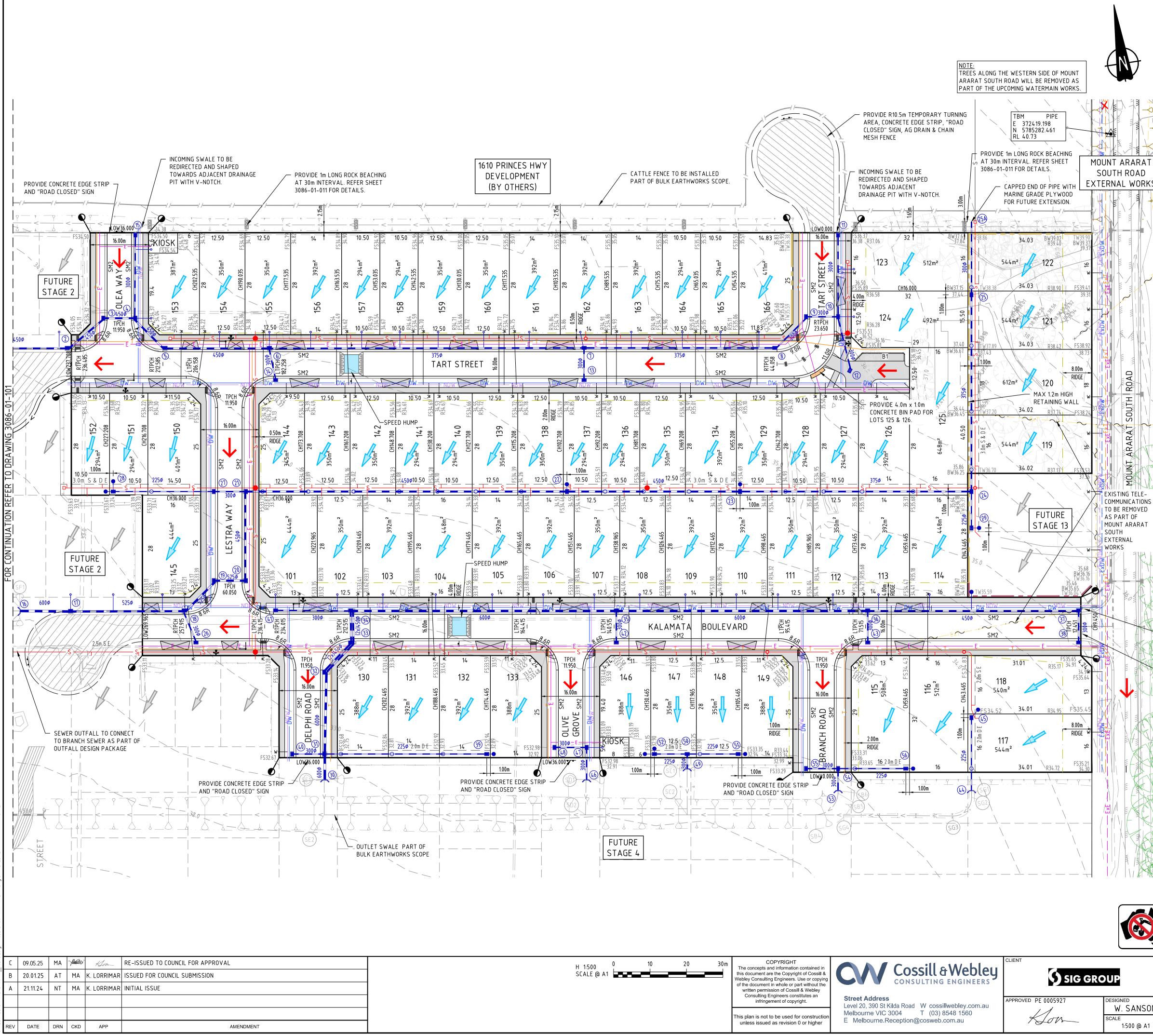
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AMENDMENT

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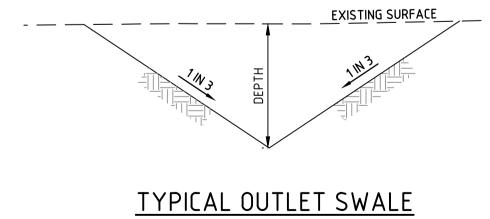
| | LEGEND | | | | | | |
|---|---|--|--|--|--|--|--|
| | DESCRIPTION | EXISTING | PROPOSED | | | | |
| \boldsymbol{h} | WATER MAIN – DRINKING WATER | ExDW | DW | | | | |
| ∇ | WATER MAIN - NON-DRINKING WATER | — — — Exndw — — — | NDW | | | | |
| | WATER CONDUITS | w | w | | | | |
| | OVERHEAD ELECTRICITY | — — — Ex0E —⊗— — | | | | | |
| | UNDERGROUND ELECTRICITY TELECOMMUNICATION & SERVICE PIT | — — — ExE — — — | | | | | |
| | SEWER & MANHOLE | — — — Ext — — — | | | | | |
| | CENTRAL INVERT | | | | | | |
| RARAT ROAD WORKS | COUNCIL STORMWATER DRAIN, PIT & HOUSE DRAIN/PROPERTY INLET | | | | | | |
| | RIDGE / CHANGE OF GRADE LINE | | _ · · · · · · | | | | |
| | SURFACE LEVEL | 43.21 | FS44.33 | | | | |
| | RIDGE LEVEL | | R43.55 | | | | |
| | TOP OF WALL LEVEL | | T 4 3.55 | | | | |
| | BOTTOM OF WALL LEVEL | | B42.55 | | | | |
| - ENDE | | | | | | | |
| | | E4.20 | | | | | |
| | SURFACE CONTOUR PERMANENT SURVEY MARK | <u> </u> | | | | | |
| | TEMPORARY BENCH MARK | | | | | | |
| | BOLLARD | + | | | | | |
| | ROAD CHAINAGES | CH <u>36</u> .20 (L/ <u>R</u>)TP CH36.20 | CH <u>36</u> .20 (L/ <u>R</u>)TP CH36.20 | | | | |
| SOAD | LOT CHAINAGE | CH28.50 | CH28.50 | | | | |
| H L | SIGN AND POST | | | | | | |
| T SOUTH ROAD | FALL OF DESIGN SURFACE | | | | | | |
| MOUNT ARARAT | 100 YEAR OVERLAND FLOW PATH | | \rightarrow | | | | |
| H I I I I I I I I I I I I I I I I I I I | LIMIT OF WORKS | | | | | | |
| NOW | RETAINING WALL - CONCRETE SLEEPER | | | | | | |
| G TELE- | RETAINING WALL - ROCK/STONE | | | | | | |
| EMOVED T OF | BATTER | | | | | | |
| ARARAT | SERVICE TO BE | | | | | | |
| | REMOVED/ABANDONED | | \sim \sim \sim \sim | | | | |
| R.L.N. | TREE TO BE RETAINED | Ê | | | | | |
| | TREE REMOVED BY OTHERS | E D | | | | | |
| | TREE REMOVED BY OTHERS CONNECT TO MOUNT ARARAT SOUTH ROAD DRAINAGE REMOVE TEMPORARY CONCRETE EDGE STRIP AND "ROAD CLOSED" SIGN. NOTE I. EXTERNAL WORKS - UPGRADE OF MOUNT ARARAT SOUTH ROAD FRONTING STAGE 1 TO INCLUDE THE NECESSARY DRIVEWAYS, FOOTPATHS, AND SERVICE WORKS RECUIRED FOR THE DEVELOPMENT OF LOTS 117. 118 & 119 TO 122. HOUSE DRAINS MARKED "H" STENCILLED ON FACE OF KIRB. PROT DPC, PROVIDE THE ALLOCATED STREET NUMBER ON THE KERB IN FRONT OF EACH LOT.THE KERBSIDE NUMBERS MUST BE TOOMM WHITE LETTERING ON A BLACK BACKGROUND LOCATED ON THE FRONT AGE TO COUNCIL SATISFACTION. WRACH DRAINS MARKED THE STENCILLED ON FACE OF KIRB. PROTE DPC, PROVIDE THE ALLOCATED STREET NUMBER ON THE KERB IN FRONT OF EACH LOT.THE KERBSIDE NUMBERS MUST BE TOOMM WHITE LETTERING ON A BLACK BACKGROUND LOCATED ON THE FRONT AGE TO COUNCIL SATISFACTION. WRACH DRAINS MARKED THE STENCILLED ON FACE OF KIRB. BEVERE OF UNDERGROUND/OVERHEAD SERVICES THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE GRVEN NO SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES. | | | | | | |
| TI | LAYOUT PLAN | (SHEET 1 OF 2) | | | | | |
| | | ורוו | ORIGINAL SIZE | | | | |
| | | NLIL ^{AWING №.} 3086-01- | | | | | |
| 500 @ A1 | | -10-00/ | | | | | |



NOTES:

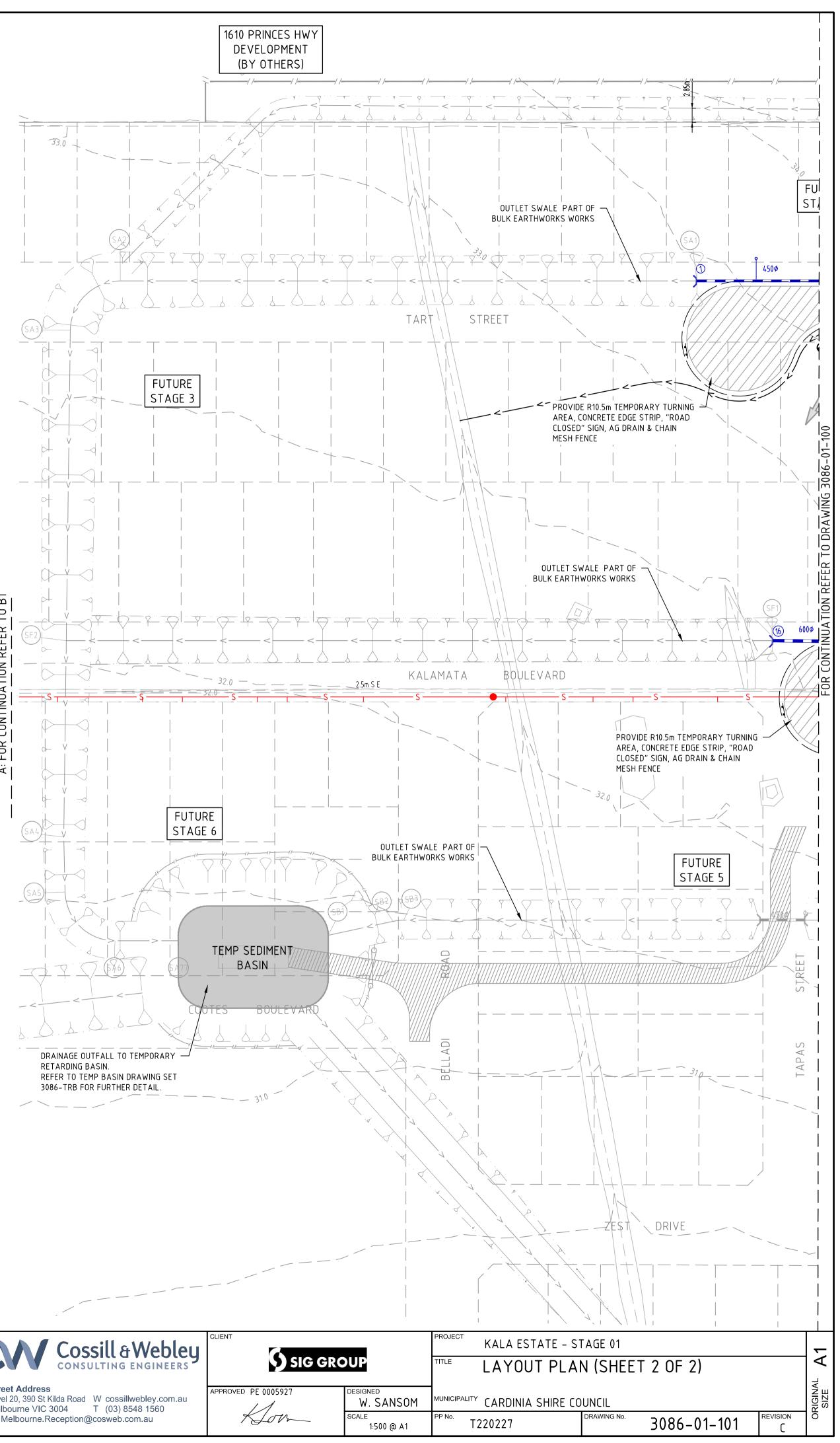
DRAINAGE OUTFALL CHANNELS ARE PART OF THE BULK EARTHWORKS PACKAGE. REFER TO DRAWINGS 3086-01-800 TO 808 FOR FURTHER DETAILS.

| LEGEND | | | | | |
|---|-----------------|----------|--|--|--|
| DESCRIPTION | EXISTING | PROPOSED | | | |
| SEWER & MANHOLE | — — — ExS — — — | s | | | |
| CENTRAL INVERT | > > _ | >> | | | |
| COUNCIL STORMWATER DRAIN, PIT & HOUSE DRAIN/PROPERTY INLET | | | | | |
| SURFACE CONTOUR | <u> </u> | | | | |
| SIGN AND POST | | | | | |
| TREE TO BE RETAINED | Ê | | | | |

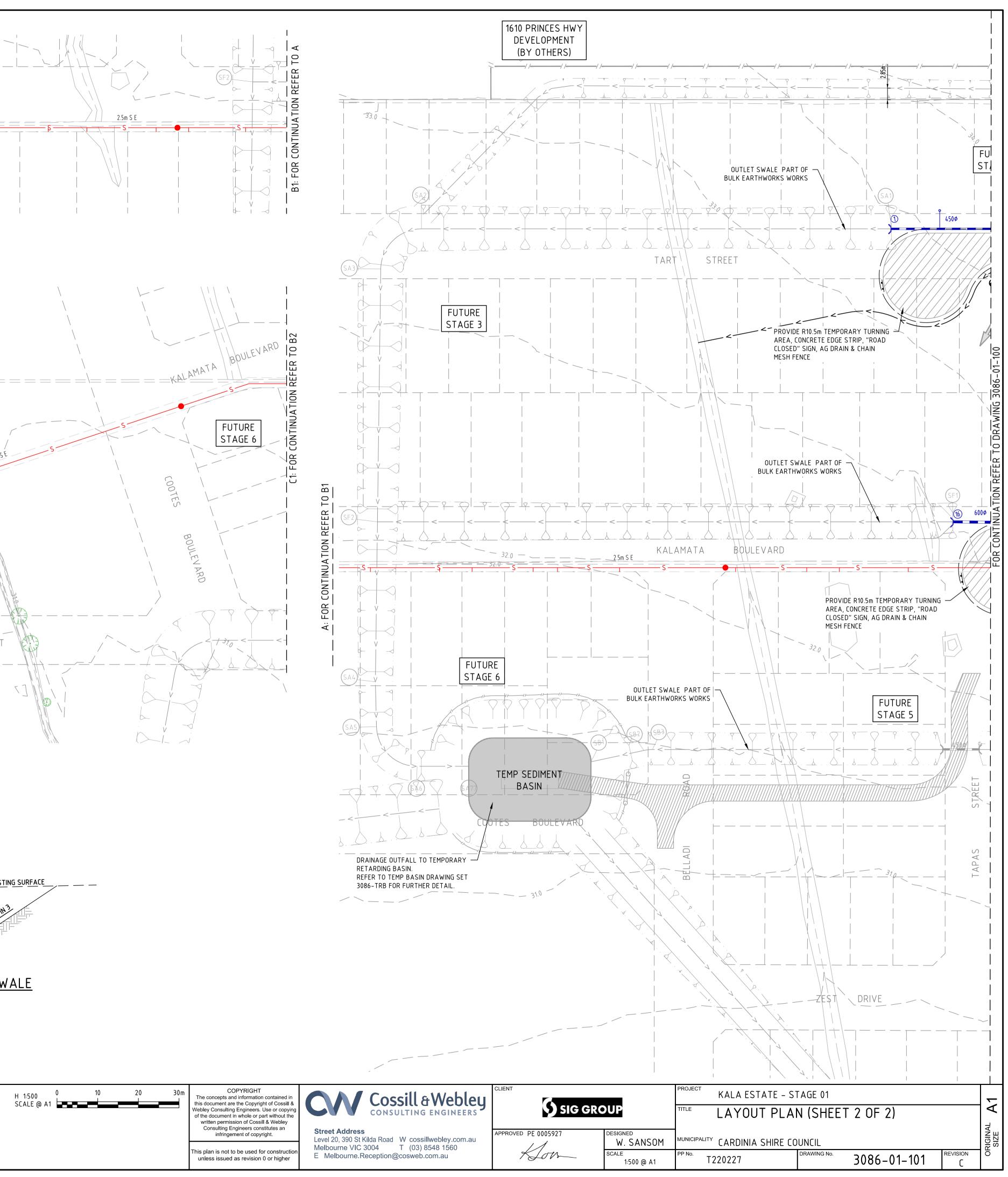


NOT TO SCALE

| С | 09.05.25 | MA | Alastici | Hor | RE-ISSUED TO COUNCIL FOR APPROVAL |
|-----|----------|-----|----------|-------------|-----------------------------------|
| В | 20.01.25 | AT | MA | K. LORRIMAR | ISSUED FOR COUNCIL SUBMISSION |
| А | 21.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
| | | | | | |
| | | | | | |
| REV | DATE | DRN | СКД | APP | AMENDMENT |







| | | L CHANNELS ARE PART OF THE B | | |
|---|------------------------------------|------------------------------|--|----------|
| | PACKAGE. REFER 1 | O DRAWINGS 3086-01-800 TO 80 | 8 FOR FURTHER DETAILS. | |
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| (SA1) | | | | |
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| CH0 RL31.5 | 79 | | | |
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| | | | | |
| VERTICAL GEOMETRY | | | | |
| DATUM RL30 | <u>60</u> | -5 ⁻ | 96 | <u>ل</u> |
| DESIGN LEVEL | 31.518 | 31.457 | 31.396- | 31.335 |
| EXISTING SURFACE | 33.264 | 33.153 | 33.067 | 32.959 |
| CHAINAGE | 10.000 | 20.000 | 0000 8 | 40.000 |
| | ~ | 5 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 4 |
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| ABOVE RIGHT | | | | |
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| FOR CONTINUATION REFER | | | | |
| OR CC | | | | |
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| | | | | |
| VERTICAL GEOMETRY | | | -0.61% | |
| DATUM RL29 | | | t 2 | |
| DESIGN LEVEL | 30.664- | 30.60 | 30.54 | 30.48 |
| EXISTING SURFACE | 32.487 | 32.375 | 32.253 | 32.177 |
| | | | | |
| CHAINAGE | 150.000 | 160.000 | 170.000 | 180.000 |
| | | | | |
| C 09.05.25 MA Augu Kor | DRAINAGE OUTFALL LONG SECTIONS AND |) SETOUT SHOWN AS EXISTING | | |
| B 20.01.25 AT MA K. LORRIMA A 13.11.24 NT MA K. LORRIMA | R ISSUED FOR COUNCIL SUBMISSION | | | |
| | | | | |
| REV DATE DRN CKD APP | A | MENDMENT | | |

| | | ALIGNMEN | NT SA | | | |
|-------|--|---|--|---|--|---|
| | | Point no SA1 SA2 SA3 SA4 SA5 SA6 SA7 | E a s t i n g 3 7 2 0 9 9 . 4 5 0 3 7 1 9 8 5 . 2 9 8 3 7 1 9 7 3 . 9 2 5 3 7 1 9 5 7 . 3 3 0 3 7 1 9 5 5 . 9 3 0 3 7 1 9 6 4 . 3 4 2 3 7 1 9 7 6 . 8 6 2 | 5 7 8 5 2 7 1 . 7 4 6 3 5 7 8 5 2 8 9 . 1 6 4 3 5 7 8 5 2 8 0 . 9 1 5 3 5 7 8 5 1 8 0 . 8 6 8 3 5 7 8 5 1 6 9 . 9 0 7 3 5 7 8 5 1 5 8 . 7 5 5 3 | R L 1 . 5 7 9 0 . 8 7 4 0 . 7 7 9 0 . 2 5 0 0 . 2 0 8 0 . 1 4 8 0 . 1 0 0 | |
| | | Curve no SA2 - SA3 SA5 - SA6 | | Arc A 15.578 2.883 15.463 2.843 | | Y l Mid point R 3.228 3.895 30.827 3.214 3.866 30.178 |
| | | | 61% | | | |
| | | -0. | .ψ 1/o | | | |
| 12010 | 5 . 2 4 | | 31.152 | 20.12 20.12 | 31.030 | 30.969 |
| 10000 | 1 C 0. 2 C C C 0 1 C 0 2 C C C 0 2 C C C 0 2 C C C 0 2 C C C 0 2 C C C 0 2 C C C C | | 32.795 | 32.113 | 32.778 | 32.759 |
| | | | 70.000 | 000 | 90.000 | 100.000 |



| H 1:200 SCALE @ A1 V 1:20 | 0 | 0.4 | 8 0.8 | 12 m 1.2 m | COPYRIGHT The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright. | Street Address Level 20, 390 St Kilda Road W cossillwebley.com.au | CLIENT SIG GRO APPROVED PE 0005927 |
|---------------------------------|-------|-----|----------|---------------|--|---|--|
| | | | | | This plan is not to be used for construction | Melbourne VIC 3004 T (03) 8548 1560 | |

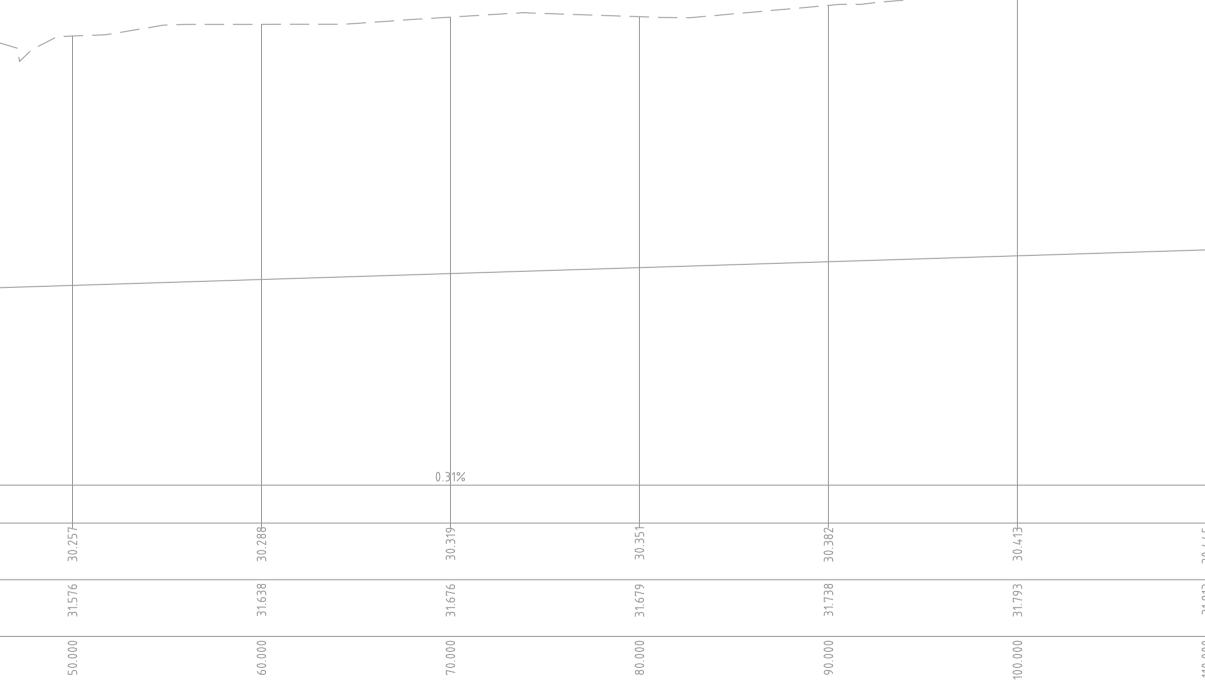
| С | 09.05.25 | MA | Alastici | Gor | DRAINAGE OUTFALL LONG SECTIONS AND SETOUT SHOWN AS EXISTING |
|----|----------|-----|----------|-------------|---|
| В | 20.01.25 | AT | MA | K. LORRIMAR | ISSUED FOR COUNCIL SUBMISSION |
| А | 13.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
| | | | | | |
| | | | | | |
| EV | DATE | DRN | CKD | APP | AMENDMENT |

| (| SB1 | SB | 32) (SB | 33 | | ~ ~ |
|---------------------------------|---------------------|------------------|---------|----|------------|--------|
| | | | | | | |
| | д СН0 RL 30.1 | | | | | |
| vertical geometry DATUM RL29 | | | | 2 | | |
| DESIGN LEVEL | 30.100 | 30.131- | 30.148 | | 30.194- | 30.225 |
| EXISTING SURFACE | 31.379 | 31.449 | 31.477 | | 31.497 | 31.504 |
| CHAINAGE | 0.000 | 10.000 13.300 | 15.431 | | 30.000 | 40.000 |
| | | | | | | |

| | | | , , | | |
|--|---|---|---------------------------------------|--------------------------------|--------------------------------|
| | ELS ARE PART OF THE BULK EA NGS 3086-01-800 TO 808 FOR F | | | RADIUS SETOUT D N.T.S. | RADUS |
| 2006.721 578 2019.995 578 2022.120 578 2310.960 578 2317.944 578 2318.046 578 Radius 210 10.000 2 | orthing RL 5153.401 30.1 5154.222 30.1 5154.127 30.1 5110.070 31.4 5115.072 31.4 5115.739 31.4 Arc A .131 0.057 0 .465 1.704 1 | 4 2 4 8 2 5 8 0 8 4 B X . 0 4 3 0 . 5 3 2 | Y L Mic 0.531 0.533 1.985 2.366 | d point RL 30.145 31.453 | |
| | | | | | FOR CONTINUATION REFER SHEET 3 |
| 30.382 | 30.413 | 30.445 | 30.476 | 30.508 | 30.539 |
| 90.000 31.738 | 100.000 31.793 3 | 110.000 31.813 | 120.000 31.888 | 130.000 31.953 | 14.0.000 32.029 |

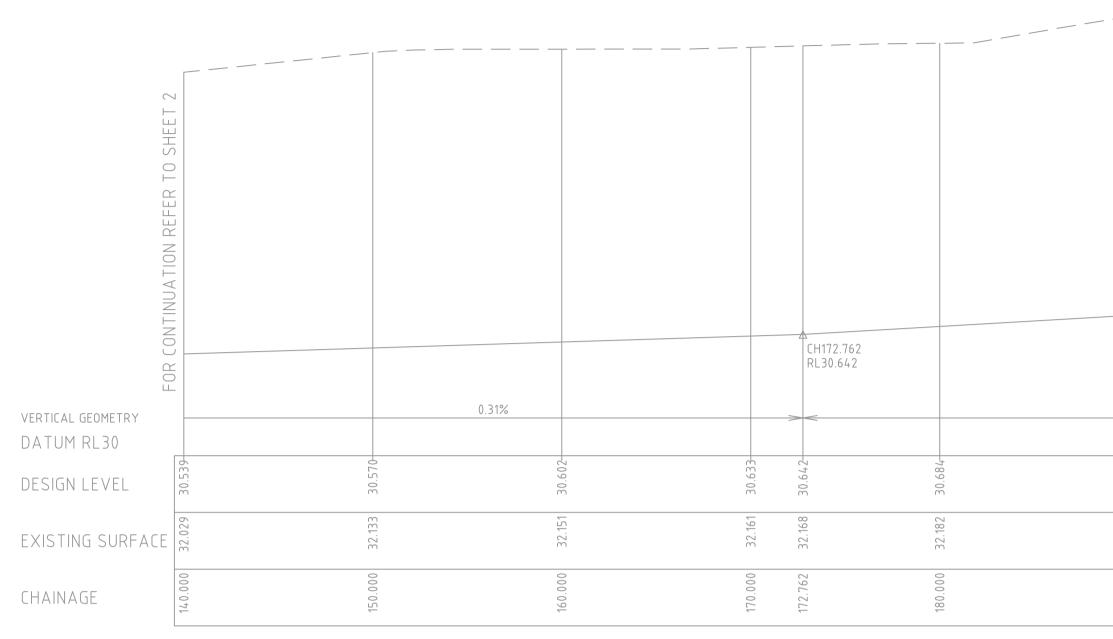
ALIGNMENT

| Point no | E a s t i n g | Northing | 1 30.100 2 30.142 7 30.148 0 31.425 2 31.425 2 31.480 |
|-----------|---------------------|------------|---|
| SB1 | 3 7 2 0 0 6 . 7 2 1 | 5785153.40 | |
| SB2 | 3 7 2 0 1 9 . 9 9 5 | 5785154.22 | |
| SB3 | 3 7 2 0 2 2 . 1 2 0 | 5785154.12 | |
| SB4 | 3 7 2 3 1 0 . 9 6 0 | 5785110.07 | |
| SB5 | 3 7 2 3 1 7 . 9 4 4 | 5785115.07 | |
| SB6 | 3 7 2 3 1 8 . 0 4 6 | 5785115.73 | |
| Curveno | 12.210 10. | ius Arc | A B |
| SB2 – SB3 | | 000 2.131 | 0.057 0.043 |
| SB4 – SB5 | | 265 9.465 | 1.704 1.263 |



OUTLET SWALE SB







| 0 | 09.05.25 | MA | Mantei | Don | DRAINAGE OUTFALL LONG SECTIONS AND SETOUT SHOWN AS EXISTING |
|----|----------|-----|--------|-------------|---|
| E | 20.01.25 | AT | MA | K. LORRIMAR | ISSUED FOR COUNCIL SUBMISSION |
| 4 | 13.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
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| RE | V DATE | DRN | СКД | APP | AMENDMENT |

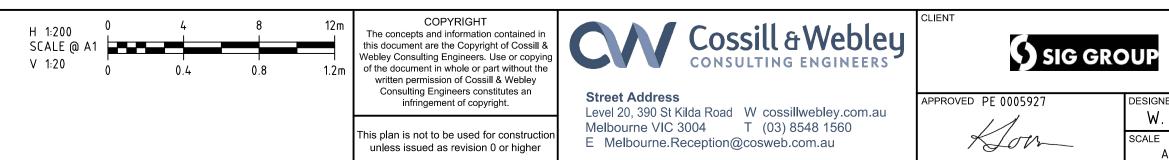
| | | | | Λ | | | | | | L L L L |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------------------|
| 32.324 30. 32.524 30. 32.524 30. 32.555 31.553 32.556 31.553 32.556 31.553 32.556 31.553 32.556 31.553 | | | | | 0.58% | | | | | FOR CONTINUATION REFER BELOW |
| 32.524 32.516 32.5560 32.5560 32.5560 32.5560 32.5560 | .742 | 00 | | | | .032 | 060. | | .207 | .265 |
| | 24 30 | \cap | \cap | | | | | | 5.5 | |
| 190.000 190.000 200.000 250.000 230.000 230.000 230.000 230.000 | | | | | | | | | | |
| | 190.000 | 200.000 | 210.000 | 220.000 | 230.000 | 240.000 | 250.000 | 260.000 | 270.000 | 280.000 |

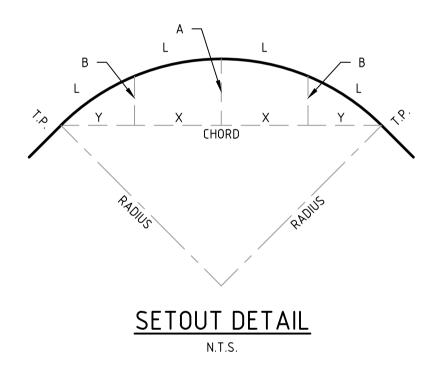
OUTLET SWALE SB

NOTES: 1. DRAINAGE OUTFALL CHANNELS ARE PART OF THE BULK EARTHWORKS PACKAGE. REFER TO DRAWINGS 3086-01-800 TO 808 FOR FURTHER DETAILS.

<u>ALIGNMENT SB</u>

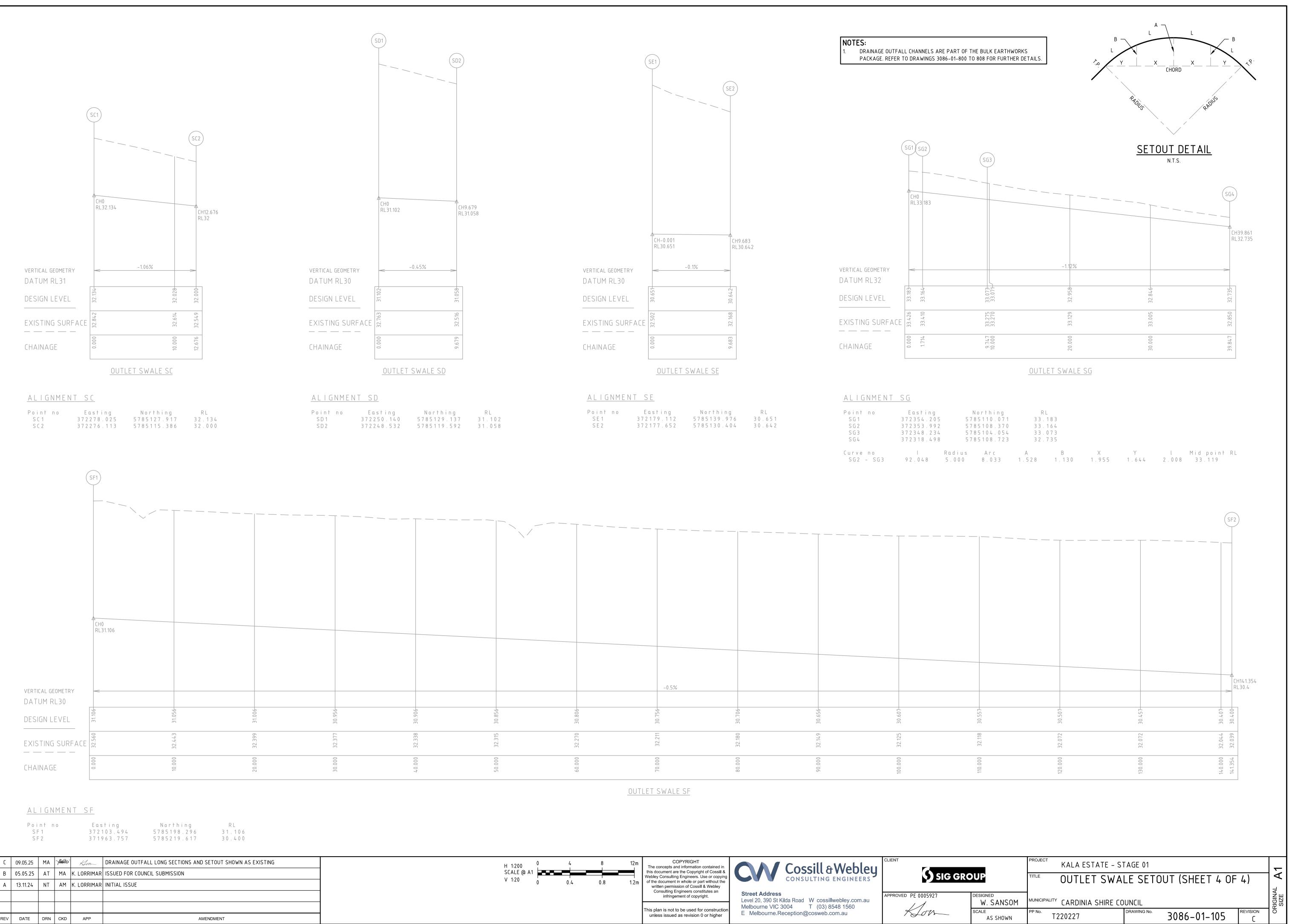
| Point no | Eastir | ŋ | Northin | g | RL | | | |
|-----------|--------|---------|-----------|-------|--------|-------|-------|------|
| S B 1 | 372006 | . 7 2 1 | 5785153.4 | 0 1 | 30.100 | | | |
| S B 2 | 372019 | . 995 | 5785154.2 | 22 | 30.142 | | | |
| SB3 | 372022 | . 120 | 5785154.1 | 27 | 30.148 | | | |
| S B 4 | 372310 | . 960 | 5785110.0 | 70 | 31.425 | | | |
| SB5 | 372317 | . 944 | 5785115.0 | 72 | 31.480 | | | |
| S B 6 | 372318 | . 046 | 5785115.7 | 39 | 31.484 | | | |
| Curve no | | Radius | Arc | A | В | X | Y | l |
| SB2 - SB3 | 12.210 | 10.000 | 2.131 | 0.057 | 0.043 | 0.532 | 0.531 | 0.53 |
| SB4 - SB5 | 86.562 | 6.265 | 9.465 | 1.704 | 1.263 | 2.310 | 1.985 | 2.36 |
| | | | | | | | | |

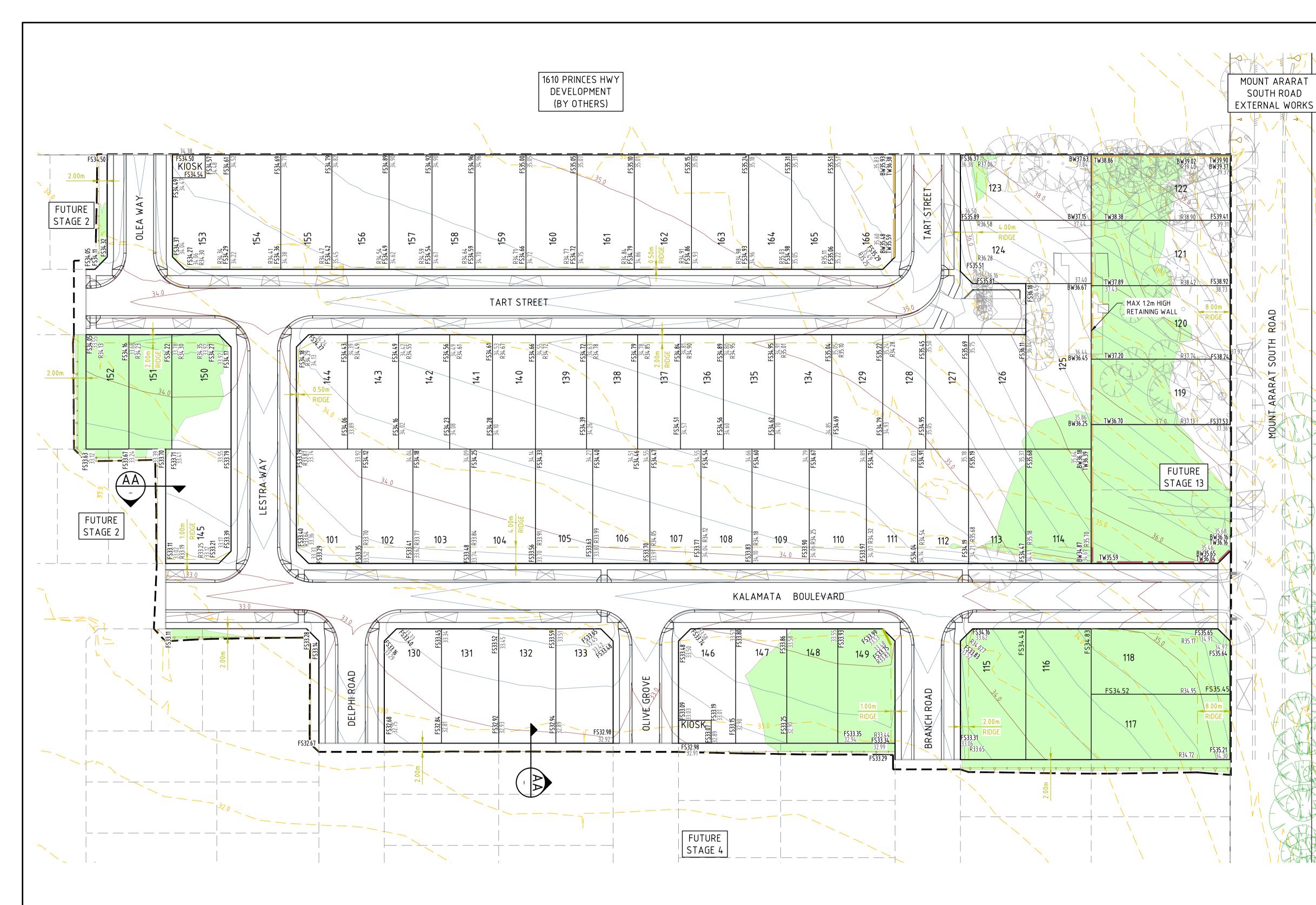




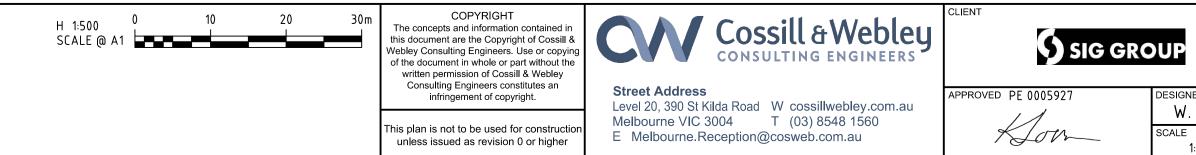
l MidpointRL .533 30.145 .366 31.453

| I | KALA ESTATE - STAGE 01 | - | | | | | |
|------------------------------|--|---|--|--|--|--|--|
| | UTLET SWALE SETOUT (SHEET 3 OF | | | | | | |
| ^{sned} 1. SANSOM | 4) MUNICIPALITY CARDINIA SHIRE COUNCIL | | | | | | |
| E AS SHOWN | PP No. T220227 DRAWING No. 3086-01-104 | ö | | | | | |





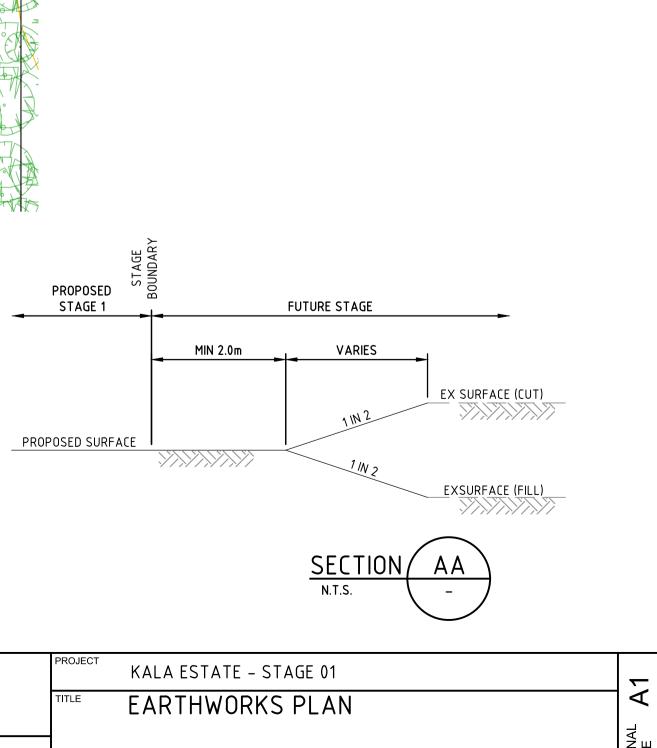
| | В | 23.01.25 | AT | Abalanci | Hor | ISSUED FOR COUNCIL SUBMISSION | |
|---|----|----------|-----|----------|-------------|-------------------------------|---|
| ' | A | 16.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE | |
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| R | EV | DATE | DRN | СКД | APP | AMENDMENT |] |





<u>LEGEND</u>

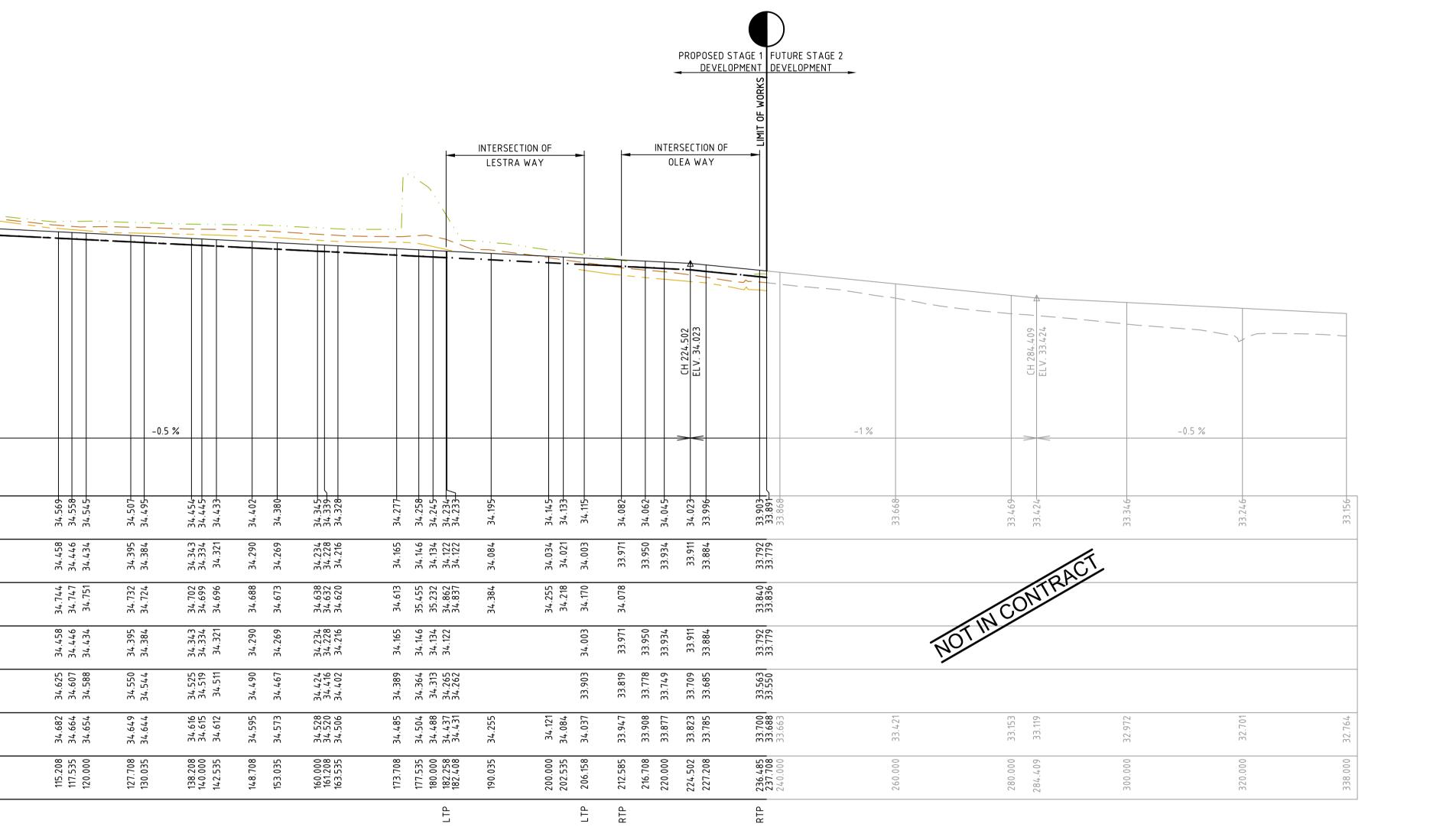
| DESCRIPTION | EXISTING | PROPOSED |
|--------------------------------------|----------|-----------|
| BOUNDARY OF WORKS | | |
| SURFACE CONTOUR MAJOR | <u> </u> | <u> </u> |
| SURFACE CONTOUR MINOR | | |
| FINISHED SURFACE LEVEL | 43.21 | FS44.33 |
| RIDGE LEVEL | | R43.55 |
| TOP OF WALL LEVEL | | T43.55 |
| BOTTOM OF WALL LEVEL | | B42.55 |
| RIDGE / CHANGE OF GRADE LINE | | _ · · · · |
| FILLING GREATER THAN 300mm | | |
| RETAINING WALL – CONCRETE SLEEPER | | |
| RETAINING WALL - ROCK/STONE | | |
| TREE TO BE RETAINED | | |
| TREE REMOVED BY OTHERS | ÊÐ | |



| 1:500 @ A1 T220227 T220227 T220227 T220227 | SANSOM | MUNICIPALITY CARDINIA SHIRE CO | UNCIL | | | |
|--|--------|--------------------------------|-------------|-------------|---------------|--|
| | | ^{рр №.} Т220227 | DRAWING No. | 3086-01-150 | REVISION B | |

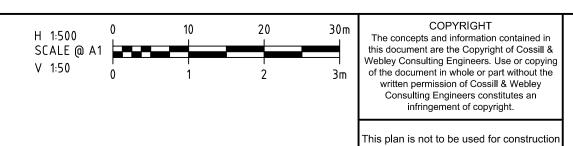
| В | 23.01.25 | AT | Alastici | Gor | ISSUED FOR COUNCIL SUBMISSION |
|-----|----------|-----|----------|-------------|-------------------------------|
| А | 14.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | DRN | CKD | APP | AMENDMENT |

| | RE PROPOSED STAGE 1 NT DEVELOPMENT | | | | | | |
|--|---|---|---|--|----------------------------|--|---|
| | LIMIT OF WORKS | | | | | | |
| | | ROAD BEND | | | | | |
| | 0.000 . 36.220 | | 42.985 <u></u> | | | | |
| VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM RL30 | CH CH | -3 % | L= 40m VC | | | | |
| DESIGN CENTRELINE | 36.220- | 35.620 1 35.530 1 35.514 35.4434 | 35.110 35.078 35.078 35.0760 35.060 35.040 37.0400 37.0400 37.0400 37.0400 37.0400 37.0400 37.0400 37.0400 37.0400 37.0400 37.0400 37.0400 37.0400 37.0400 37.04000 37.04000 37.0400000000000000000000000000000000000 | 34.895 34.888 34.888 34.830 34.830 34.820 34.799 | 34.737- 34.737- | 34.69 8- 34.684 - | 34.645 - 34.632- 34.628- |
| RIGHT LIP OF KERB | 36.108 35.628 | 35.508 35.419 35.399 | 34.925 | 34.783 34.777 34.777 34.719 34.719 34.688 | 34.656 34.634 34.625 | 34.586 34.573 | 34.534 34.520 34.516 |
| EXISTING SURFACE AT RIGHT BOUNDARY | 35.834 35.834 | 35.671 35.633 35.624 35.621 | 35.489 35.482 35.460 35.456 | 35.216 35.204 35.120 35.078 35.049 35.015 | 34.964 34.927 34.925 | 34.927 34.933 | 34.890 34.869 34.860 |
| LEFT LIP OF KERB | 36.108 36.208 35.628 | 35.508 35.419 35.399 | 34.925 | 34.783 34.777 34.719 34.719 34.709 34.688 | 34.656 34.634 34.625 | 34.586 34.573 | 34.534 34.520 34.516 |
| EXISTING SURFACE AT LEFT BOUNDARY | 36.378 86.378 | 36.520 36.520 36.520 36.521 | 35.333 35.262 35.244 35.239 35.223 35.220 | 35.055 35.049 35.005 34.969 34.940 34.906 | 34.845 34.802 34.800 | 34.800 34.806 | 34.811 34.785 34.774 |
| EXISTING SURFACE | 36.060 | 35.887 35.887 35.793 35.793 35.725 | 35.438 35.371 35.371 35.371 35.374 35.343 35.339 | 35.131 35.122 35.054 35.012 34.983 34.948 | 34.900 34.862 34.859 | 34.874 34.880 | 34.844 34.818 34.808 |
| CHAINAGE | 0.000 000 000 000 000 000 000 000 000 0 | 20.000 23.650 23.850 26.000 | 40.000 41.708 42.708 42.985 42.985 42.985 44.058 | 54.535 55.208 60.000 62.985 65.035 69.208 | 75.535 80.000 81.708 | 89.535 92.208 | 100.000 102.708 103.535 |
| L | 1 | RTP | RTP | | | | |



TART STREET LONGITUDINAL SECTION

unless issued as revision 0 or higher







Level 20, 390 St Kilda Road W cossillwebley.com.au Melbourne VIC 3004 T (03) 8548 1560 E Melbourne.Reception@cosweb.com.au APPROVED PE 0005927

LIENT



| LEGEND | | | | | | | |
|------------------------------------|-----------|--|--|--|--|--|--|
| DESCRIPTION | LINETYPE | | | | | | |
| EXISTING SURFACE | | | | | | | |
| DESIGN LINE | | | | | | | |
| FUTURE DESIGN LINE | | | | | | | |
| EXISTING SURFACE AT RIGHT BOUNDARY | · · · · · | | | | | | |
| RIGHT LIP OF KERB | <u> </u> | | | | | | |
| EXISTING SURFACE AT LEFT BOUNDARY | | | | | | | |
| LEFT LIP OF KERB | | | | | | | |

| | KALA ESTATE - S | TAGE 01 | | - | | | | |
|------------------------------|---|-------------------------|----------|----------------|--|--|--|--|
| | TITLE ROAD LONGITUDINAL SECTIONS | | | | | | | |
| ^{gned} V. SANSOM | (SHEET 1 OF 3 MUNICIPALITY CARDINIA SHIRE CO | | | IGINAL SIZE | | | | |
| E :500 V 1:50 @ A1 | PP No. T220227 | DRAWING No. 3086-01-200 | REVISION | OR \$ | | | | |

| | 23.01.25 | AT | Alaster | Hor | ISSUED FOR COUNCIL SUBMISSION |
|---|----------|-----|---------|-------------|-------------------------------|
| | 14.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
| | | | | | |
| | | | | | |
| | | | | | |
| / | DATE | DRN | CKD | APP | AMENDMENT |

OLEA WAY LONGITUDINAL SECTION

| | | DEVELO | PMENT DE | |
|--|--------------------------|--------|-----------------------|-------|
| INTERSECTION OF TART STREET | | | LIMIT OF WORKS | |
| | CH 11.901 ELV. 34.180 | | CH 36.000 ELV. 34.300 | |
| VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM RL31 | < | 0.5 % | ~> | |
| | 34.180 | 34.220 | 34.3007 | |
| RIGHT LIP. OF KERB. | 34.068 | 34.108 | 34.188 34.188 | |
| EXISTING SURFACE AT RIGHT BOUNDARY | 34.042 | 34.199 | 34.384 34.384 | , |
| LEFT LIP OF KERB | 34.068 | 34.108 | 34.188 34.188 | |
| EXISTING SURFACE AT LEFT BOUNDARY | 33.917 | 34.063 | 34.228 34.228 | |
| EXISTING SURFACE | 33.975 | 34.149 | 34.314 34.314 | |
| CHAINAGE | 11.950 | 20.000 | 35.999 36.000 | |
| | d | | | |

| | \square |
|------------------|-----------|
| PROPOSED STAGE 1 | FUTURE |
| DEVELOPMENT | |
| | |

| INTERSECTION OF MOUNT ARARAT SOUTH ROAD |) | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------|--------------------|-------------------------------|--|----------------------------|--|---------------------|-------------------------------|--------------------|--------------------------------------|------------------------|-------------------------------|--------------------|-------------------------------|----------------------|----------------------|------------------|------------------------------|----------------------------|--|--------------------|--------------|---------------------------|
| | | | | | ERSECTION OF | | | | | | | | | | | | | | | | | | TURE STAGE 2 VELOPMENT |
| | | | | | | | | | | - | INTERSECTI OLIVE GR | | | | | | | | INTERSECTION DELPHI ROA | AD | _ | 41T OF WORKS | |
| | | | | | | | | | | | | | | | | | · | | ···· ··· = | INTERSECTION O | | | |
| | | | | CH 75.000 .LV. 33.925 | | | | | | | | | | | | | | | | | | | |
| | | -2.5 % | < | L= 30m VC | > | | | | | | | | | | | | | | 5 % | | | | |
| VERTICAL GEOMETRY HORIZONTAL GEOMETRY | < | -2.5 % | | >< | | | | | | | | | | | | | | -0. | <u> </u> | | | | |
| DATUM RL30 | | | | | | | | | | | | | | | | | | | | | | | |
| DESIGN CENTRELINE | 35.48 9 35.300- | 34.71 3 | 34.31 3 34.300- | 34.05 6 34.024- 34.000- | | 33.82 3 33.80 8 33.800 | 33.77 3- | 33.738- 33.710- 33.700- | 33.668 33.648 | 33.605 33.600 33.597 | 33.543- | 33.500- 33.478- 33.473- | 33.42 8 | 33.40 3 33.400- | 33.35 8 - | -53.32 3 | 33.288 | 33.23 7 33.237 | 33.200- 33.190- | 33.130- 33.11 8 33.100- | 33.010- 33.000- | 32.950- | 32.900- |
| RIGHT LIP OF KERB | 35.377 | 34.688 34.602 | 34.202 34.188 | 33.945 33.912 33.888 33.888 | 33.822 33.764 33.738 | 33.711 33.696 33.688 | 33.661 | 33.626 33.599 33.588 | 33.556 33.556 | 33.494 33.488 33.486 | 33.431 | 33.388 33.366 33.361 | 33.316 | 33.291 33.288 | 33.246 | 33.211 | 33.176 | 33.141 33.126 | 33.088 33.079 | 33.018 33.006 32.988 | 32.899 32.888 | 32.839 | |
| EXISTING SURFACE AT RIGHT BOUNDARY | 35.463 35.468 | 34.677 34.677 | 34.413 34.408 | 34.256 34.213 34.170 | 34.145 34.145 34.133 | 34.114 34.074 34.054 | 34.056 | 34.059 34.064 34.064 | 34.101 34.117 | 34.042 34.031 34.020 | 33.905 | 33.841 33.802 33.795 | 33.732 | 33.701 33.699 | 33.658 | 33.740 | 33.689 | 33.625 33.592 | 33.531 33.517 | 33.384 | 33.118 33.104 | 33.021 | |
| LEFT LIP OF KERB | 35.377 | 34.688 34.602 | 34.202 34.188 | 33.945 33.912 33.888 33.888 | 33.738 33.764 33.738 | 33.711 33.696 33.688 | 33.661 | 33.626 33.599 33.588 | 33.556 33.536 | 33.494 33.488 33.486 | 33.431 | 33.388 33.366 33.361 | 33.316 | 33.291 33.288 | 33.246 | 33.211 | 33.176 33.176 | 33.141 33.126 | 33.088 33.079 | 33.018 33.006 32.988 | 32.899 32.888 | 32.839 | |
| EXISTING SURFACE AT LEFT BOUNDARY | 34.911 | 34.116 34.116 | 33.842 33.825 | 33.638 | | 33.534 33.541 33.544 | 33.548 | 33.559 33.575 33.575 | 33.579 33.570 | 33.573 33.576 33.576 33.578 | | 33.456 33.466 | 33.513 | 33.495 33.493 | 33.445 | 33.415 , 15 c c c | 33.340 33.340 | 33.328 33.333 | | 33.163 33.143 | 32.910 32.872 | 32.643 | |
| EXISTING SURFACE | 35.217 34.894 | 34.424 34.353 | 34.065 34.058 | 33.887 33.857 33.858 33.838 | 33.757 33.757 | 33.761 33.765 33.768 | 33.777 | 33.787 33.802 33.802 | 33.836 33.848 | | 33.679 | 33.646 33.619 33.615 | 33.576 | 33.567 33.566 | 33.532 | 33.494 | 33.453 | 33.4 <i>21</i> 33.415 | 33.378 33.364 | 33.311 33.286 33.241 | 33.057 33.033 | 32.900 | 32.772 |
| CHAINAGE | 12.451 20.000 | 4.0.000 4.3.465 | 59.465 60.000 | 71.515 73.465 75.000 | 85.965 90.000 | 95.415 98.465 100.000 | 105.465 | 112.465 117.965 120.000 | 126.465 130.465 | 138.965 140.000 140.515 | 151.465 | 160.000 164.415 165.465 | 174.465 | 179.465 180.000 | 188.465 | 195.465 | 202.465 | 209.465 212.515 | 220.000 221.965 | 234.015 236.415 240.000 | 257.915 260.000 | 269.965 | 280.000 |
| | ط ط | | | LTP | | LTP | | | | LTP | (| | | יח ו חמ | NGITI | | ו כברו | | | КТР LTP | RTP | | |

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DESIGN CENTRELINE

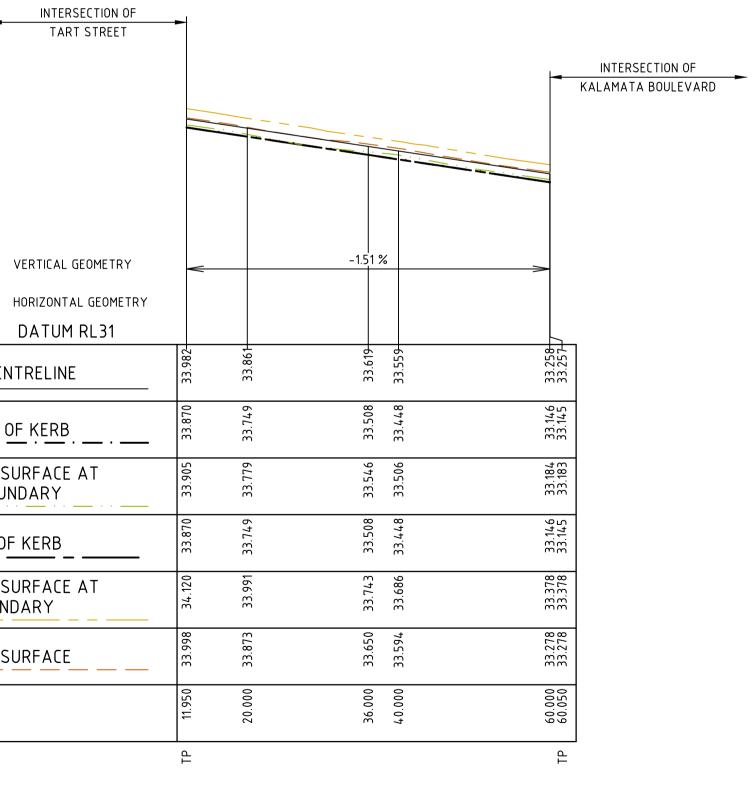
RIGHT LIP OF KERB EXISTING SURFACE AT RIGHT BOUNDARY LEFT LIP OF KERB

EXISTING SURFACE AT LEFT BOUNDARY

EXISTING SURFACE

CHAINAGE





LESTRA WAY LONGITUDINAL SECTION

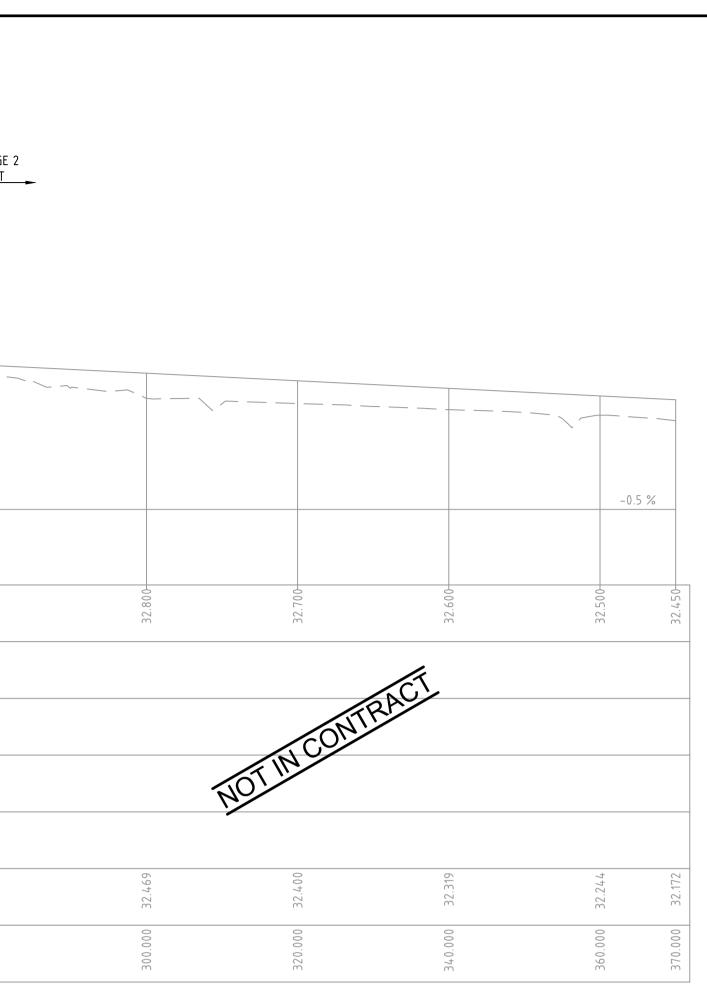
| H 1:500 SCALE @ A1 V 1:50 | 0 | 10 | 20 | 30m 3m | COPYRIGHT The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley Consulting Engineers constitutes an infringement of copyright. | Street Address Level 20, 390 St Kilda Road W cossillwebley.com.au |
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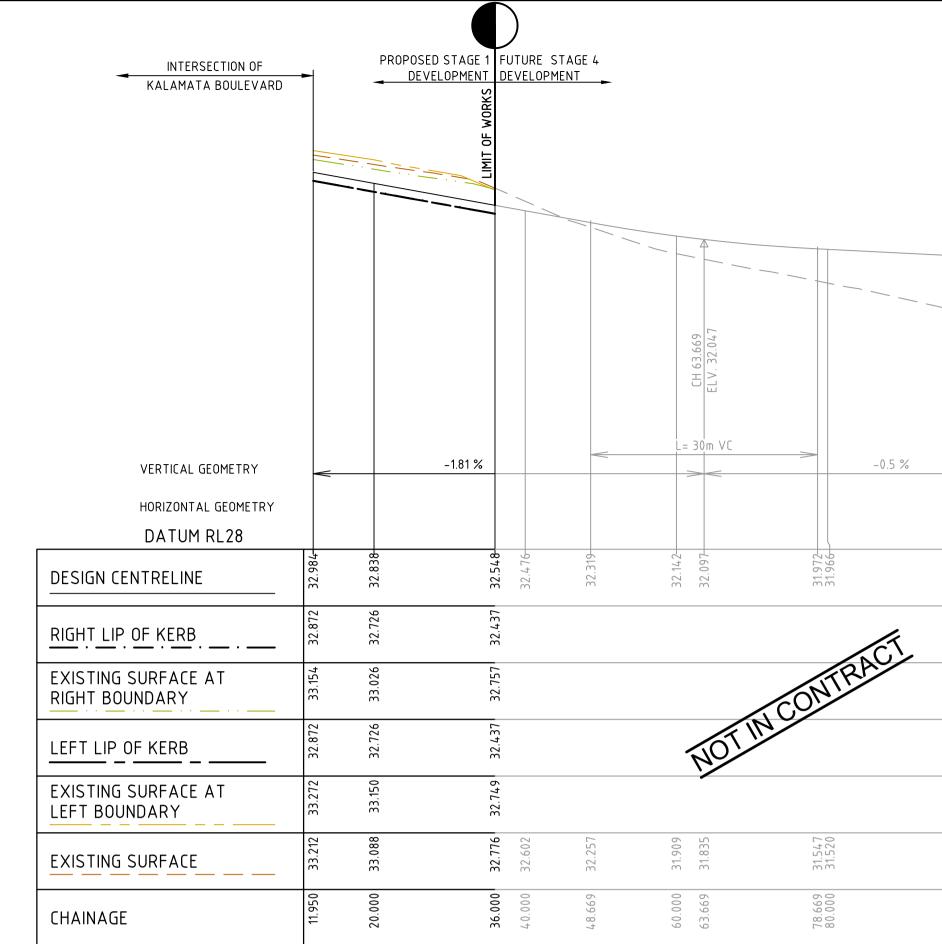
| LEGEND | | | | | | | | |
|------------------------------------|-----------|--|--|--|--|--|--|--|
| DESCRIPTION | LINETYPE | | | | | | | |
| EXISTING SURFACE | | | | | | | | |
| DESIGN LINE | | | | | | | | |
| FUTURE DESIGN LINE | | | | | | | | |
| EXISTING SURFACE AT RIGHT BOUNDARY | · · · · · | | | | | | | |
| RIGHT LIP OF KERB | <u> </u> | | | | | | | |
| EXISTING SURFACE AT LEFT BOUNDARY | | | | | | | | |
| LEFT LIP OF KERB | | | | | | | | |

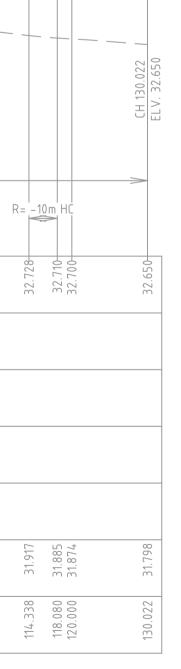
| KALA ESTATE - STAGE 01 | | | | | | | | |
|--|---|---|---|--|--|--|--|--|
| TITLE ROAD LONGIT | UDINAL SECTIONS | | ∢ | | | | | |
| (SHEET 2 OF 3) CARDINIA SHIRE COUNCIL | | | | | | | | |
| РР №. Т220227 | ^{DRAWING No.} 3086−01−201 | REVISION B | Ю | | | | | |
| | TITLE ROAD LONGIT (SHEET 2 OF CARDINIA SHIRE CO | TITLE ROAD LONGITUDINAL SECTIONS (SHEET 2 OF 3) MUNICIPALITY CARDINIA SHIRE COUNCIL | TITLE ROAD LONGITUDINAL SECTIONS (SHEET 2 OF 3) MUNICIPALITY CARDINIA SHIRE COUNCIL | | | | | |

| В | 23.01.25 | AT | Abasence | Hor | ISSUED FOR COUNCIL SUBMISSION |
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| А | 14.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
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| REV | DATE | DRN | CKD | APP | AMENDMENT |

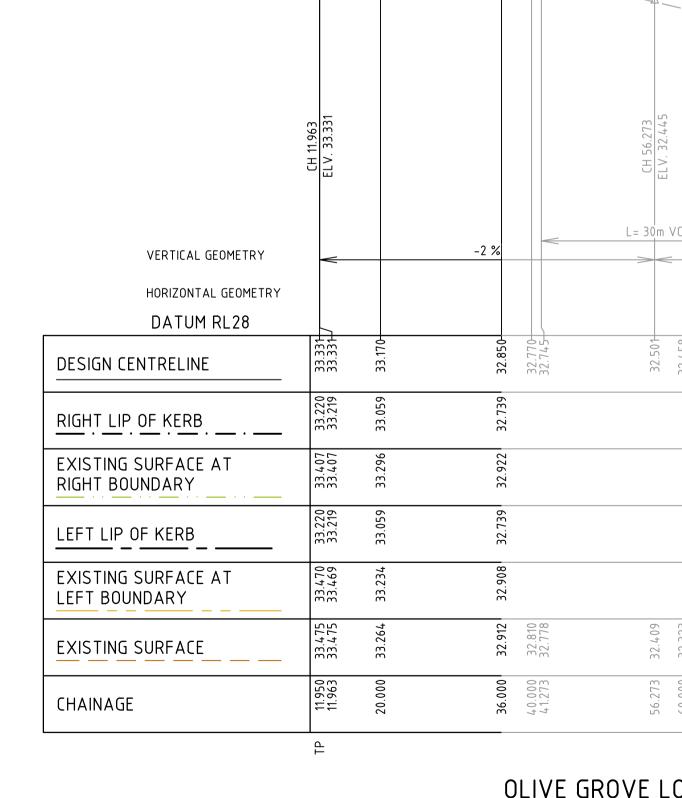
BRANCH ROAD LONGITUDINAL SECTION

| ING SURFA AGE CTION OF BOULEVARD | | -1.63 % | | LOPMENT I | | ie 4 | 1 ROAD | 600.00 LONGIT | | 23:547 80.000 31:520 |
|---|---------|----------------------|----------------------|--|--|--|--|---|---|--|
| CTION OF BOULEVARD | | | PROPOSED DE VE | STAGE 1 F | D UTURE STAG DEVELOPMENT | <u>ΕLPH</u> | | | | |
| BOULEVARD | | | PROPOSED | LOPMENT I | CUTURE STAG | ie 4 | IROAD | LONGIT | | SECTION |
| BOULEVARD | | | DEVE | LOPMENT I | DE VELOPMENT | | | | | |
| OMETRY | | -1.63 % | | | ELV | | | | | |
| | | -1.63 % | 6 | | | > | > | | | |
| GEOMETRY | | | • | | >< | | | | -0.5 % | |
| | 33.614 | 33.482 | 33.320 | 33.175 | 33.117 | | 33.0007 | | 200 200 200 | 32.800 |
| · | 33.502 | 33.371 | 33.208 | 33.064 | | | | | | RACT |
| .T | 33.459 | 33.315 | 33.106 | 32.927 | | | | | NCON | |
| | 33.502 | 33.371 | 33.208 | 33.064 | | | | NU | | |
| T | 33.500 | 33.355 | 33.192 | 33.059 | | | | | | |
| | 33.465 | 33.318 | 33.133 | 32.971 | 32.895 | | 32.649 32.649 | 0 FC CC | 61 C.7C | 32.101 |
| | 11.950 | 20.000 | 29.997 | 000.0 | 766. | | .000 000 | | 000.000 | 100.000 |
| | · · · · | 33.465 33.500 33.502 | 33.318 33.355 33.371 | 33.465 33.500 33.502 33.318 33.355 33.371 33.133 33.192 33.208 | 33.465 33.500 33.502 33.318 33.355 33.371 33.133 33.192 33.208 33.971 33.059 33.064 | 33.465 33.500 33.502 33.318 33.355 33.371 33.133 33.192 33.208 32.971 33.059 33.064 32.895 33.059 33.064 | 33.465 33.500 33.502 33.318 33.355 33.371 33.133 33.192 33.208 32.971 33.059 33.064 32.895 33.059 33.064 | 33.465 33.500 3 33.465 33.500 3 33.313 33.355 3 33.133 33.192 3 33.133 33.192 3 32.971 33.059 3 32.649 32.649 3 | 33.465 33.465 33.465 33.465 33.500 33.313 33.192 33.355 33.350 33.465 33.500 33.465 33.500 32.649 32.649 32.649 32.649 32.649 32.649 32.649 32.649 32.649 32.649 32.649 32.649 32.649 32.649 32.649 32.649 32.649 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.5000 33.50000 33.50000 33.50000 33.50000 33.50000000000 | 33.465 33.500 33.502 33.465 33.500 33.502 33.313 33.192 33.208 32.971 33.059 33.064 32.649 32.649 32.649 32.649 32.649 32.649 |



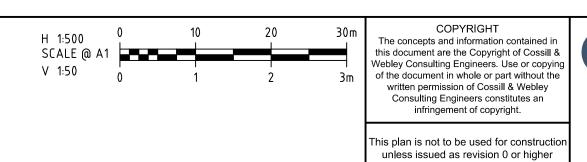






INTERSECTION OF KALAMATA BOULEVARD

OLIVE GROVE LONGITUDINAL SECTION





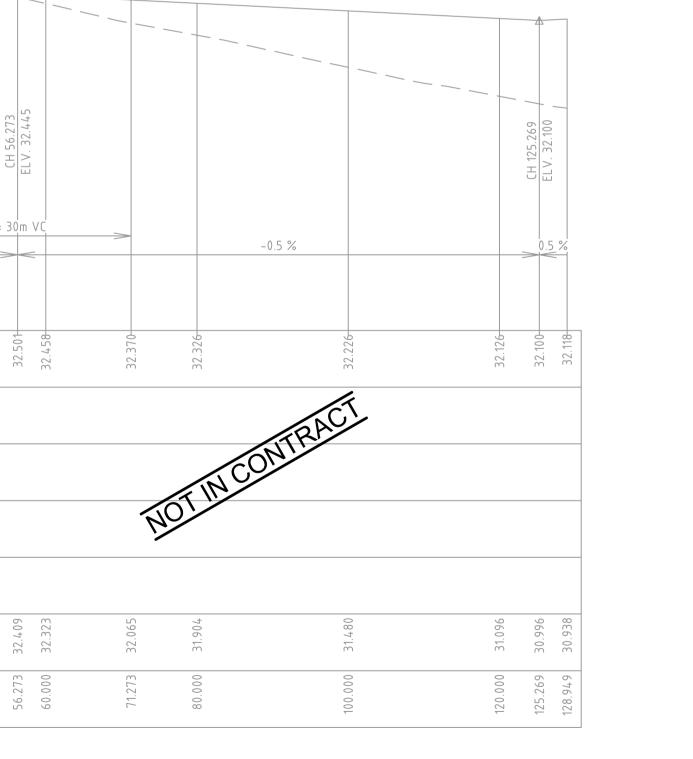


Street Address Level 20, 390 St Kilda Road W cossillwebley.com.au Melbourne VIC 3004 T (03) 8548 1560 E Melbourne.Reception@cosweb.com.au PPROVED PE 0005927

PROPOSED STAGE 1 FUTURE STAGE 4 DEVELOPMENT DEVELOPMENT



| LEGEND | |
|------------------------------------|----------|
| DESCRIPTION | LINETYPE |
| EXISTING SURFACE | |
| DESIGN LINE | |
| FUTURE DESIGN LINE | |
| EXISTING SURFACE AT RIGHT BOUNDARY | |
| RIGHT LIP OF KERB | <u> </u> |
| EXISTING SURFACE AT LEFT BOUNDARY | |
| LEFT LIP OF KERB | |



| I | KALA ESTATE - S | TAGE 01 | | 1 | | | |
|-----------------|-------------------|-----------------|----------|-----------------|--|--|--|
| | TITLE ROAD LONGIT | UDINAL SECTIONS | | \triangleleft | | | |
| ^{GNED} | (SHEET 3 OF 3) | | | | | | |
| | PP No. | | REVISION | ORI S | | | |
| 500 V 1:50 @ A1 | T220227 | 3086-01-202 | В | | | | |

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| А | 14.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE | |
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| REV | DATE | DRN | CKD | APP | AMENDMENT | |

| DATUM RL35.0 DESIGN SURFACE | 36.975 | 1 in 6.7 1 ir 39:312 39:312 | n 50 <u>1 in 16.8</u> 275 295 | 36.193 | 05 20 20 20 20 20 20 20 20 20 20 20 20 20 | 36.193 |
|--------------------------------|----------|--------------------------------------|-------------------------------------|------------------|--|------------------|
| EXISTING SURFACE | 36.537 | 36.378 36.376 | 36.317 | 36.217 36.193 | 36.060 | 35.958 35.942 |
| OFFSET | - 12.000 | -8.000 - 7.950 | -6.450 | -3.950 -3.350 | 0.000 | 3.350 3.950 |

| | | ä | 1 in 50 | <u>1 in 16.8</u> | | 1 in 30 | 1 in 30 | | |
|------------------|-------|----------------------|--------------------|------------------|--------------------|---------|---------|---------|----------|
| DATUM RL34.0 | | ړ ۱ | | 2 | | | | | <u> </u> |
| DESIGN SURFACE | | -06-4-05 -06-4-05 | 35.895- 35.892- | .700.00 | 35.713- 35.628- | | 35.740- | 35.628- | 35.713- |
| EXISTING SURFACE | 06376 | 42C.0E | 36.498 36.492 | 061.90 | 36.043 36.027 | | 35.941 | 35.854 | 35.835 |
| OFFSET | | - 12.000 | -7.950 | 004.0- | -3.950 -3.350 | | 0.000 | 3.350 | 3.950 |
| | | | | | | | | | |

| DATUM RL34.0 | BL 32 | \mathbf{N} | | 484 | אריין ארי אריין אריין ארי | | 66 | |
|------------------|------------------------------|---------------------------------|---|--------------------|--|--------|---------|---------|
| DESIGN SURFACE | 76.26 262.26 252.25 | 35.663 5663 5663 55653 | | 35.484. 35.399. | | | 35.399- | 35.484. |
| EXISTING SURFACE | לטכ.05 מכים אב מכים אב | 36.522 36.522 36.352 | | 35.910 35.892 | 100.00 25 793 | | 35.714 | 35.706 |
| OFFSET | - 12.000 8 000 | -8.000 -7.950 -6.4.50 | | -3.950 | | | 3.350 | 3.950 |
| | | | | | RTPCH | 23.650 | | |
| | | | | | | | | |
| | 1 in 6.7 | | ` | | _ | | | |

1 in 50

1 in 16 8

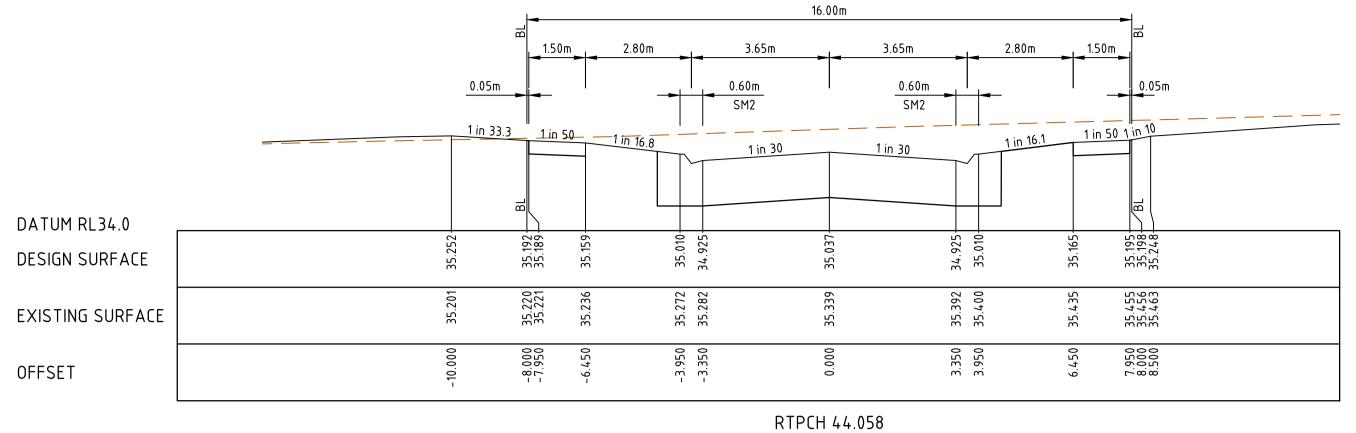
1 in 30

CH 16.000

LOW 0.000

1 in 6.7

| EXISTING SURFACE | |
|------------------|--|
| NEESET | |



1 in 20 1 in 16.1 1 in 50

639

32

661

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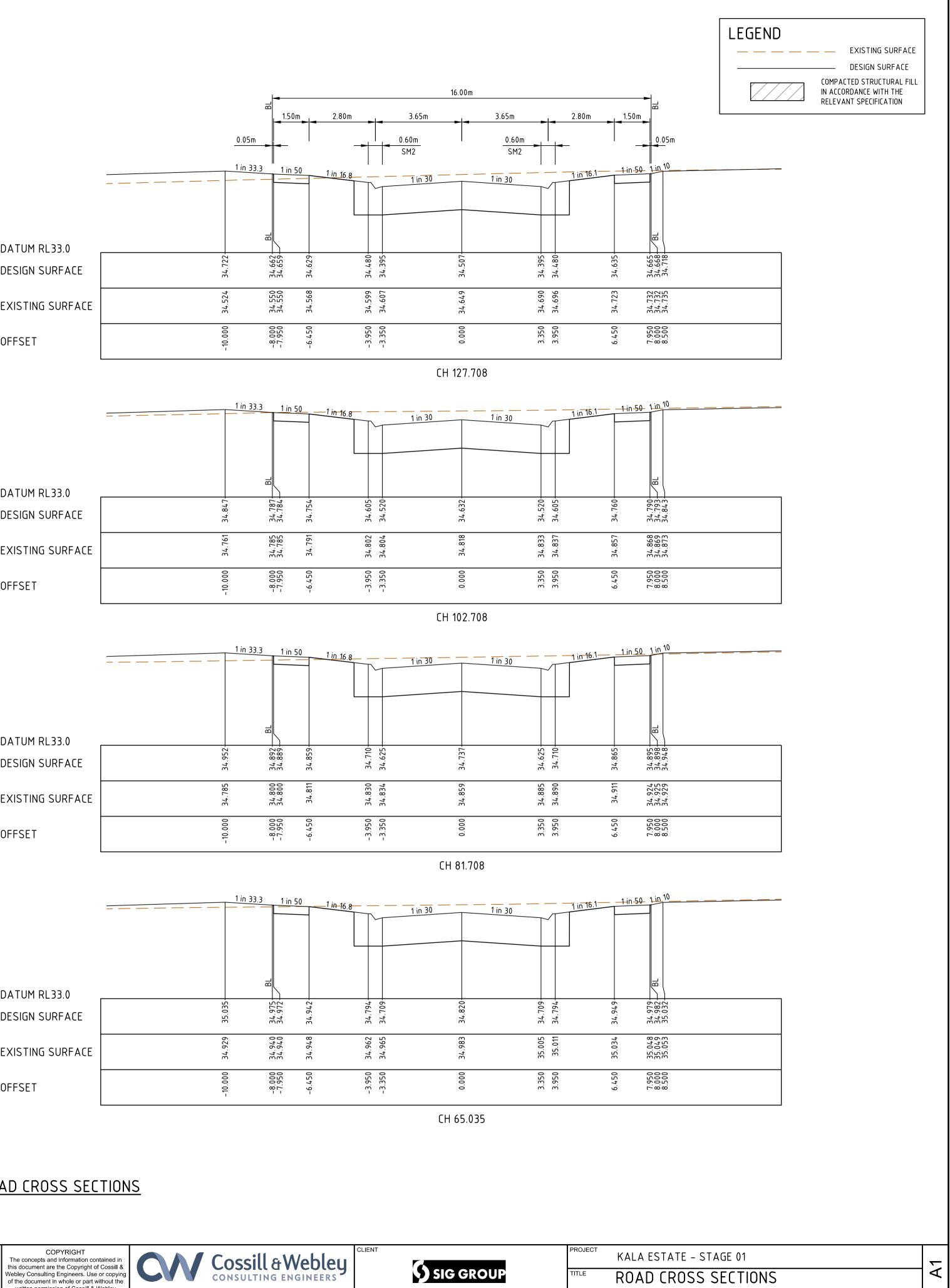
450

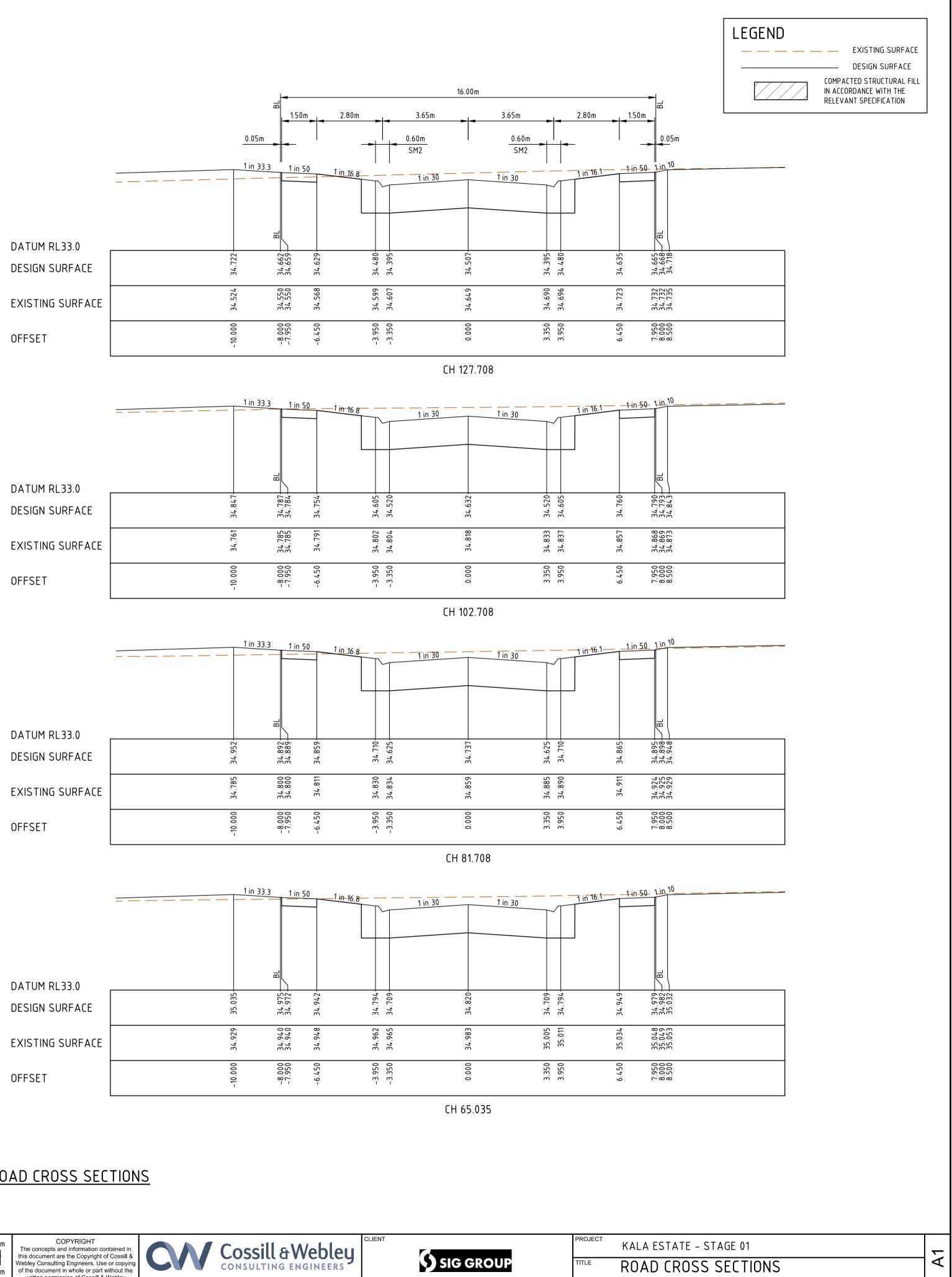
35.669[.] 35.672.

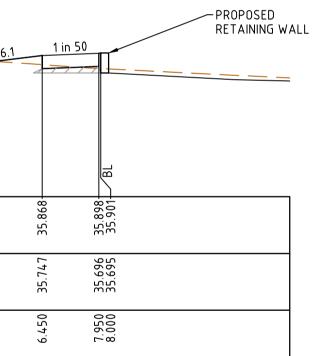
35.625 35.624

7.950 8.000

1 in 30

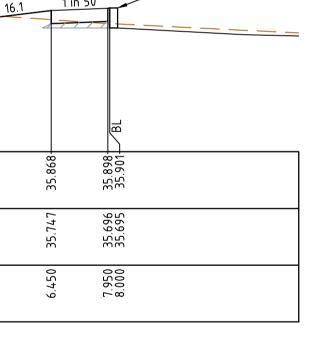


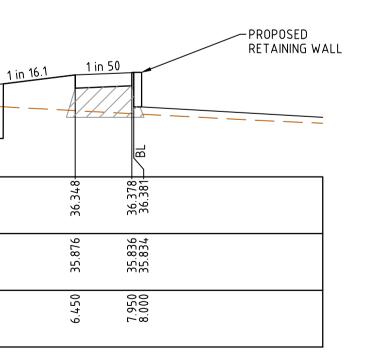




PROPOSED RETAINING WALL

_ _ _ _ _ _ _





| DATUM RL33.0 | | <u>1 in 33.3</u> | 1 in 50 | <u>1 in 16.8</u> | | | 1 in 30 | | <u>1 in 30</u> |
|------------------|-----|------------------|--------------------------------|------------------|---------|--------|---------|---------|----------------|
| JATUM RESS.V | | 70 | | م | 10 | 22 | | 37 | |
| DESIGN SURFACE | | 0. +0 | 34.892 ⁻ 34.889- | - 4 C 8. 4 5 | 34.710- | 34.625 | | 34.737- | |
| EXISTING SURFACE | 10E | | 34.800 | 110.45 | 34.830 | 34.834 | | 34.859 | |
| | ^ | ñ í | mm ' | • • | m | ñ | | ñ | |
| DFFSET | | | - 7.950 | 004.0- | -3.950 | -3.350 | | 0.000 | |
| | L | | | | | | | | |

| | | <u>1 in 33.3</u> | 1 in 50 | <u>1 in 16.8</u> | | 1 in 30 | | 1 in 30 |
|-----------------|---------|------------------|--------------------|------------------|---------|---------|---------|---------|
| ATUM RL33.0 | | | \mathbb{N} | | | | | |
| ESIGN SURFACE | | 35.035 | 34.972- 34.972- | 34.942. | 34.794- | 34.709 | 34.820- | |
| XISTING SURFACE | | 34.929 | 34.940 34.940 | 34.948 | 34.962 | 34.965 | 34.983 | |
| FFSET | | -10.000 | -8.000 -7.950 | -6.450 | -3.950 | - 3.350 | 0.000 | |

TART STREET – ROAD CROSS SECTIONS

| H 1:100 SCALE (a) A1 V 1:50 0 1 2 4 6 m COPYRIGH The concepts and informati this document are the Copy Webley Consulting Engineer of the document in whole or written permission of Cos | cossill & corcopying ithout the Vebley | | | PROJECT KALA ESTATE - ST TITLE ROAD CROSS (CLUEET 4.05.4) | SECTIONS | |
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| Consulting Engineers or infringement of con | Level 20, 390 St Kilda Road W cossillwebley.com.au | APPROVED PE 0005927 DE | wesigned W. SANSOM | (SHEET 1 OF 6 MUNICIPALITY CARDINIA SHIRE CO | • | sigina |
| This plan is not to be used unless issued as revisio | | | cale H 1:100 V 1:50 @ A1 | ^{рр No.} T220227 | DRAWING No. 3086-01-250 | REVISION O B |

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| REV | DATE | DRN | СКД | APP | AMENDMENT | 1 |

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|------------------|------------------------|--|--|--------|---------|------------|--|-----------|------------------|
| DATUM RL33.0 | | ВГ | | | | | | | |
| DESIGN SURFACE | -19 76 76 | 34.557 | 34.554 [.] 34.524 [.] | 34.375 | 34.290 | 34.402 | -066 7ב | 34.375 | 1 1 • • |
| EXISTING SURFACE | רפט לי אלי צי | . 4. | 34.490 34.508 | 34.541 | 34.549 | 34.595 | 079 7E | 34.649 | |
| OFFSET | - 10 000 | 0000 0000 0000 0000 0000 0000 0000 0000 0000 | -7.950 -6.450 | -3.950 | - 3.350 | 0.000 | 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 3.950 | 1 |
| L | | | | | | CH 148.708 | | | |

| DESIGN SURFACE | 34.49 | 34.42 34.42 | 34.39 | 34.25 34.16 | | | 34.16 34.25 | |
|------------------|---------------|------------------|--------|------------------|---------|---------|------------------|-----------|
| EXISTING SURFACE | 34.359 | 34.389 34.389 | 34.406 | 34.444 34.444 | . 87 | | 34.547 34.575 | |
| OFFSET | -10.000 | -8.000 -7.950 | -6.450 | -3.950 -3.350 | | | 3.350 3.950 | |
| | | | | | CH 17 | 3.708 | | |
| | 1 in 33.: | 3 1 in 5 | 50 | <u>1 in 16.8</u> | 1 in 30 | 1 in 30 | | 1 in 16.1 |

| | | | | | L | TPCH 182.258 | |
|------------------|---------|----------------|--------------------|-------------|------------------|--------------|------------------|
| | | <u>1 in 33</u> | <u>.3 1 in 5</u> | <u>50 1</u> | 1 in 30 | 1 | in 30 1 in 16.1 |
| DATUM RL33.0 | | | | | | | |
| DESIGN SURFACE | | 34.492 | 34.432- 34.429- | 34.399- | 34.250 34.165 | 34.277 | 34.165 34.250 |
| EXISTING SURFACE | | 34.359 | 34.389 34.389 | 34.406 | 34.444 34.444 | 34.485 | 34.547 34.575 |

| | 1 in 33.3 | 1 in 5(| 0 <u>1 in 16.8</u> | | 1 in 30 | 1 in 30 | 1 in 16.1 | 1 in 50 | | |
|--------------------------------|---------------|------------------|--------------------|------------------|---------|---------|-----------|---------|----------------------------------|--|
| DATUM RL33.0 DESIGN SURFACE | 34.449 | 34.389 BL | 34.356 | 34.207 34.122 | 34.234 | | | 34.362 | 34.392 BL 34.396 BL 34.446 | |
| EXISTING SURFACE | 34.234 | 34.265 34.266 | 34.290 | 34.348 34.362 | 764.437 | 4 | -: | 34.841 | 34.861 34.862 34.868 | |
| OFFSET | -10.000 | -8.000 -7.950 | -6.450 | -3.950 -3.350 | 0.000 | 3.350 | 3.950 | 6.450 | 7.950 8.000 8.500 | |

16.00m

3.65m

0.60m

2.80m

3.65m

0.60m

| | | | | | | SM2 | SM2 | | - |
|------------------|----------|----------|--------------------|---------------------|--------------------|---------|---------|-------------------|------------------|
| | | <u> </u> | 1 in 5 | 50 <u>1 in 16.1</u> | | 1 in 30 | 1 in 30 | | <u>1 in 16.1</u> |
| DATUM RL33.0 | F | | | | | | | |] |
| DESIGN SURFACE | | 34.351 | 34.276- 34.273- | 34.243 | 34.088- 34.003- | | ۲۲.4۶. | 34.003- 34.088 | |
| EXISTING SURFACE | | 33.876 | 33.903 33.904 | 33.924 | 33.965 33.976 | | 7.037 | 34.095 34.106 | |
| OFFSET | | -10.000 | -8.000 -7.950 | -6.450 | -3.950 | | 0.000 | 3.350 3.950 | |
| | | | | | | LTPCH | 206.158 | | |

1.50m

0.05m

2.80m



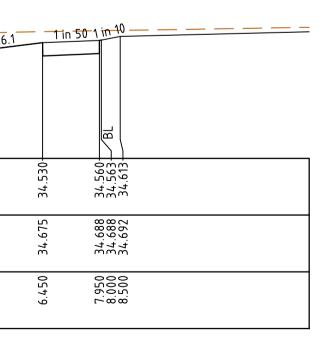
TART STREET - ROAD CROSS SECTIONS

DATUM RL33.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET



| | 1 in 26.7 1 | <u>in 50 1 in 16</u> | 5.1 | 1 in 30 | |
|--------------------------------|--|----------------------|-----------------------|---------|--------|
| DATUM RL33.0 DESIGN SURFACE | 34.319 34.244 34.244 | 34.211 | 34.056 | | 34.082 |
| EXISTING SURFACE | 33.797 33.819 33.819 34.819 34.819 | 33.836 | 33.875 34 33.886 3 | | 33.947 |
| OFFSET | -10.000 -8.000 -7.950 | -6.450 | -3.350 | | 0.000 |
| | | | | | |

RTPCH 236.485

0.00

| | | | | | | LUW | / 23 |
|------------------|---|---------|--------------------|--------|--|---------|---------|
| | | 1 in 26 | 5.7 1 in 5(|) | <u>1 in 16.1</u> | 1 in 30 | _ |
| DATUM RL33.0 | [| 0 | | 5 | 17 | | |
| DESIGN SURFACE | | 34.140- | 34.065- 34.062- | 34.032 | 33.877 [.] 33.792 [.] | | 33.903- |
| EXISTING SURFACE | | 33.527 | 33.563 33.563 | 33.587 | 33.627 33.637 | | 33.700 |
| OFFSET | | -10.000 | -8.000 -7.950 | -6.450 | -3.950 -3.350 | | 0.000 |
| | | | | | | | |

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2.80m

1 in 16.1

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33.615 33.624

-3.950 -3.350

1.50m

0.05m

34.052[.] 34.049-

33.550 33.551

-8.000 -7.950

33.5

45(

3.65m

1 in 30

0.60m SM2

| <u>in 16.1</u> | 1 in 50 1 in 1 | ,0 | |
|----------------|----------------|-------|--|
| | | | |
| 118 15 | | | |
| <i>L L C</i> | 7.950 8.000 | 8.500 | |

_ _ _ _ _ _ _

1 in 50 1 in 10 -

34.488

34.612 34.613 34.623

7.950 8.000 8.500

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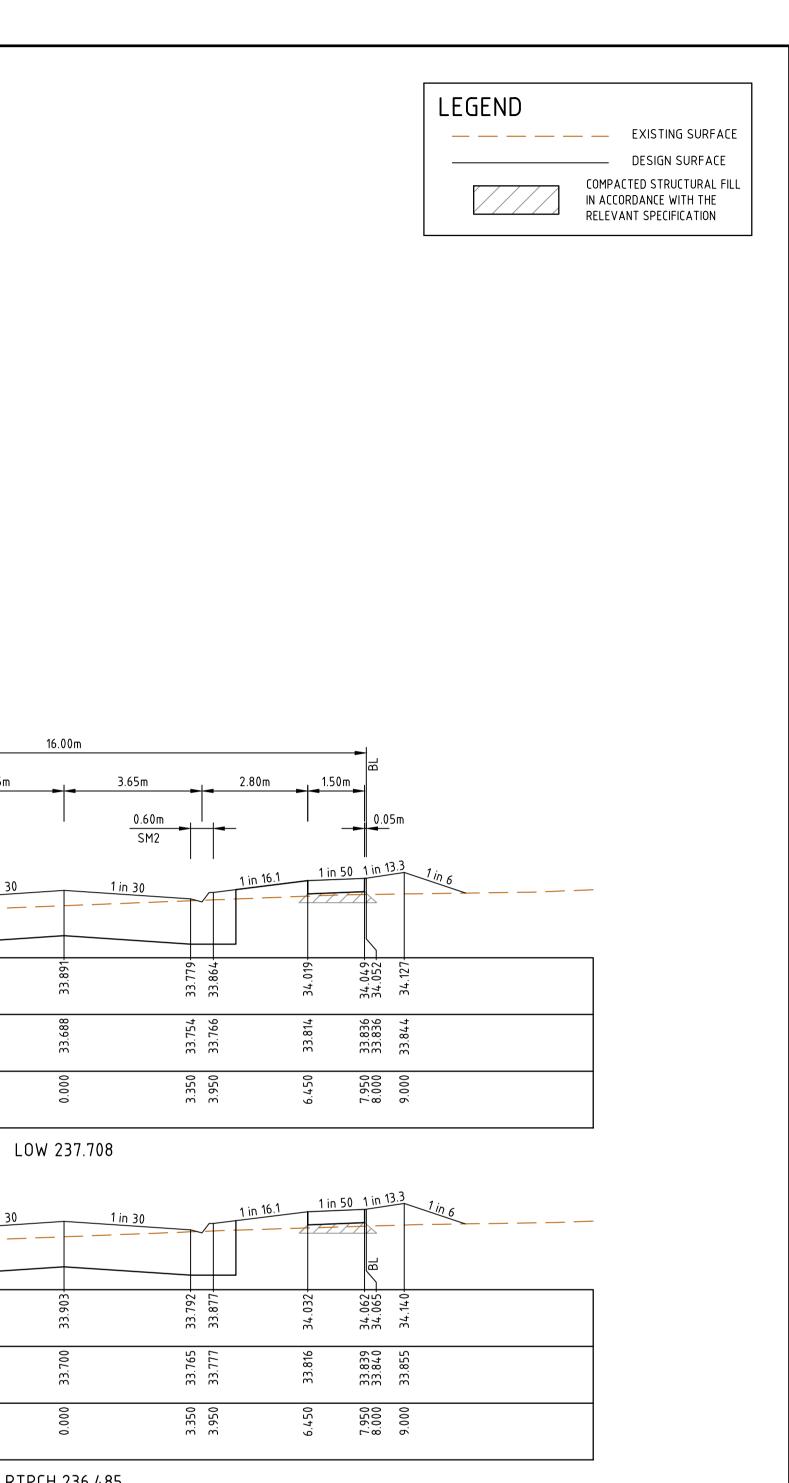
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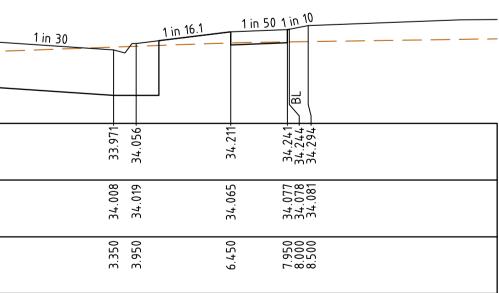
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450

| | 1.50m 0.05m | |
|---------|-------------------------------|--|
| 1 | l in 50 1 in 10 | |
| | | |
| 34.243- | 34.273- 34.276- 34.326- | |
| 34.149 | 34.169 34.170 34.176 | |
| 6.450 | 7.950 8.000 8.500 | |

RTPCH 212.585



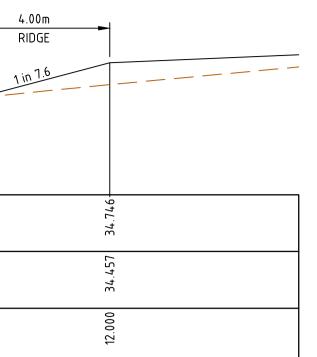


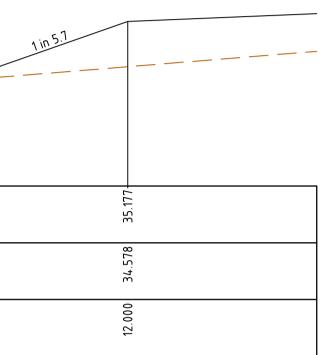
| | KALA ESTATE – S | TAGE 01 | 1 |
|----------------|------------------|---|--|
| | TITLE ROAD CROSS | SECTIONS | A |
| IED SANSOM | | | GINAL |
| 00 V 1:50 @ A1 | PP №. T220227 | DRAWING №. 3086-01-251 B | ORIG SIZ |
| | SANSOM | TITLE ROAD CROSS SANSOM MUNICIPALITY CARDINIA SHIRE CO | KALA ESTATE - STAGE 01 TITLE ROAD CROSS SECTIONS (SHEET 2 OF 6) MUNICIPALITY DRAWING NO. PP NO. T220227 DRAWING NO. POP C DRAWING NO. DOP C CARDINIA SHIRE COUNCIL |

| | | ਛ <mark></mark> |)m | 2.80m 3. | 16.00m 65m ► ◄ | 3.65m 2.80 | 0m 1.5(| | |
|-----------------------------|-------|------------------------------------|----------|--|-------------------|--|------------------|------------------|----------------------|
| | 0.05m | | | 0.60r | | 0.60m | | 0.05m | |
| | | | 50 1 | | | | 16.1 1 in | 50 | |
| | | -/-/- BL | | | | | | BL | |
| DATUM RL33.0 DESIGN SURFACE | | 34.178 34.175 | 34.145 | 34.030 | 34.056 | 33.945 | 34.185 | 34.215 | |
| EXISTING SURFACE | | 33.638 33.640 | 33.717 | 33.808 33.820 33.820 | 33.887 | 34.050 3 | 34.177 | 34.254 | |
| OFFSET | | -8.000 | -6.450 | -3.950 -3.350 | 0.000 | 3.950 3 | 6.450 | 8.000 | |
| | | | Ĩ | | LTPCH 71.515 | | | | |
| | | | | | | | | | |
| | | <u>1 in</u> | 50 1 | | | | 16.1 1 in | 50 <u>1 in</u> | 5.1 |
| | | | | in 21.6 1 | in 30 1 | <u>in 30</u> | | | |
| | | В | | | | | | BL | |
| DESIGN SURFACE | | 34.435 34.432 | 34.402 | 34.287 34.202 | 34.313- | 34.202 | 34.442 | 34.472 34.475 | |
| EXISTING SURFACE | | 33.842 33.843 | 33.884 | 33.954 33.971 | 34.065 | 34.184 34.214 | 34.337 | 34.411 34.413 | |
| OFFSET | | -8.000 -7.950 | -6.450 | -3.950 | 0.000 | 3.350 3.950 | 6.450 | 7.950 8.000 | |
| | | | | | CH 59.465 | | | | |
| | | | | | in 30 1 | | <u>16.1 1 in</u> | // | |
| DATUM RL33.0 | | В | | | | | | BI | |
| DESIGN SURFACE | | 34.835 34.832 | 34.802 | 34.687 - 34.602 - | 34.713- | 34.602 - 34.687- | 34.842- | 34.872 34.875 | |
| EXISTING SURFACE | | 34.116 34.118 | 34.162 | 34.236 34.254 | 34.353 | 34.453 34.473 | 34.555 | 34.604 34.606 | |
| OFFSET | | -8.000 -7.950 | -6.450 | -3.950 -3.350 | 0.000 | 3.350 | 6.450 | 7.950 8.000 | |
| | | | | | CH 43.465 | | | - PRO | |
| | | | | | | | | RET | POSED AINING WALL |
| | | 1 in | 50 1 | <u>in 16.7 1</u> | <u>in 30 1</u> | <u>in 30 1 in</u> | 15.8 1 in | 50 | |
| | | | | | | | | | |
| DATUM RL34.0 | | 124 | 12 | 52 | 6 | 22 | 50 | 230 | |
| DESIGN SURFACE | | 1 35.644 ⁻ 3 35.642- | 1 35.612 | 3 35.462-2 35.377 | 7 35.489- | 0 35.377 ⁻ 9 35.462 ⁻ | 5 35.620- | 35.650- | |
| EXISTING SURFACE | | 34.911 34.913 | 34.971 | 35.093 | 35.217 | 35.320 | 35.415 | 35.461 | |
| OFFSET | | -8.000 -7.950 | -6.450 | -3.950 -3.350 | 0000 | 3.350 | 6.450 | 7.950 8.000 | |
| | | | | | TPCH 12.451 | | | | |
| | | | | | | | | | |

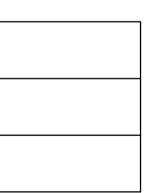
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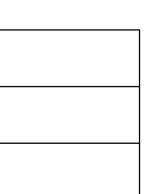
| В | 23.01.25 | AT | Alantei | Hor | ISSUED FOR COUNCIL SUBMISSION |
|-----|----------|-----|---------|-------------|-------------------------------|
| А | 14.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
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| REV | DATE | DRN | CKD | APP | AMENDMENT |

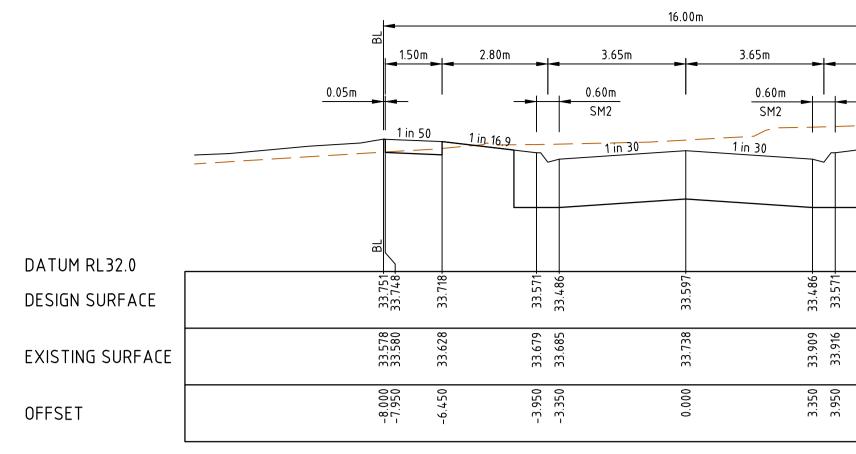




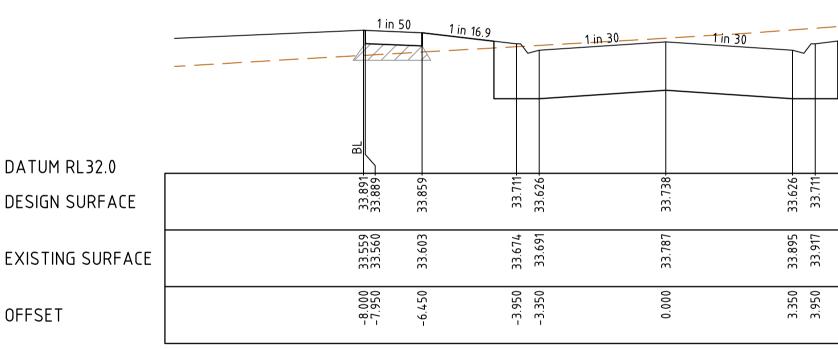


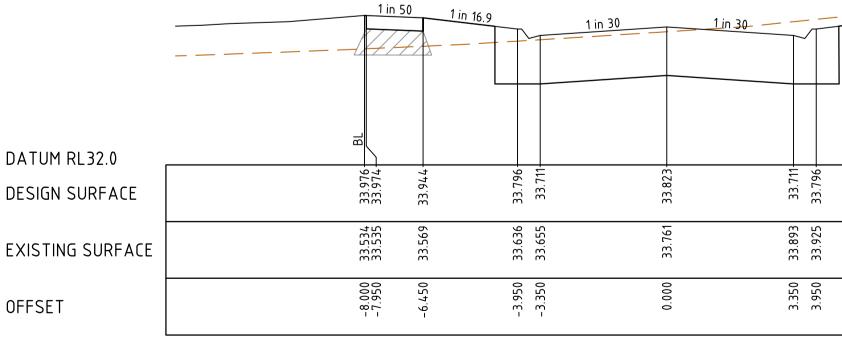






| | | | | | LEGEND | |
|---------------------------|---|---------------------|--------------------------------|--|--|-------------------|
| | d | 16.00m 5m 3.65m | 2.80m1.50 | — — — — — — — — — — — — — — — — — — — — — | DESIGN SI COMPACTED STRUC IN ACCORDANCE WIT RELEVANT SPECIFIC | TURAL F TH THE |
| | 0.05m | 0.60m SM2 | | RIDGE 0.05m | | |
| | | 1 in 30 | 1 in 16.1 1 in | 50 | | |
| | | | | | | |
| DATUM RL32.0 | | | | | | |
| DESIGN SURFACE | 33.751- 33.748- 33.718- 33.571- 33.571- | 33.597 | | 33.759- 33.759- 34.109- | | |
| XISTING SURFACE | 33.578 33.580 33.628 33.679 33.685 | | 33.916 33.977 | 34.019 34.020 34.084 | | |
| DFFSET | -8.000 -7.950 -6.450 -3.950 -3.350 | 0.000 | 3.950 6.450 | 7.950 8.000 12.000 | | |
| | | LTPCH 140.515 | | | | |
| | 1 in 50 1 in 16.9 | | 1 in 16.1 1 in | 50 <u>1 in 11.4</u> | | |
| | | 1 in 30 | | | | |
| | | | | | | |
| DATUM RL32.0 | 33.821 BL 33.819 BL 33.641 1 33.556 1 | 33.556 | 33.641 | 33.826 BI | | |
| DESIGN SURFACE | | | | | | |
| EXISTING SURFACE | 50 33.580 50 33.587 50 33.627 50 33.736 33.736 50 33.736 | | 50 33.961 50 34.048 | 50 34.100 34.101 34.240 | | |
| DFFSET | -8.000 -7.950 -6.450 -3.950 | 0.000 | 3.950 | 7.950 8.000 12.000 | | |
| DATUM RL32.0 | В | | | В | | |
| DESIGN SURFACE | 33.891+ 33.894+ 33.859+ 33.711+ 33.626+ | 33.738- | 33.711 - 33.866- | 33.896+ 33.899+ 34.249+ | | |
| XISTING SURFACE | 33.559 33.560 33.603 33.674 33.691 | 33.787 | 33.917 34.006 | 34.057 34.059 34.195 | | |
| DFFSET | -8.000 -7.950 -3.350 | 0.000 | 3.950 | 7.950 8.000 12.000 | | |
| | | CH 112.465 | | | | |
| | 1 in 50 1 in 16 o | | <u>1 in 16.1</u> in | 50 <u>1 in 10.3</u> | | |
| | | 1 30 <u>1 in 30</u> | | | | |
| | | | | | | |
| DATUM RL32.0 | | | 9 | | | |
| DESIGN SURFACE | 6 33.976- 5 33.974- 6 33.796- 5 33.711- | 33.711 | | 33.981- 4 33.984- 7 34.371- | | |
| EXISTING SURFACE | 33.534 33.535 33.569 33.636 33.655 33.655 | | 33.925 34.055 | 34.113 34.114 34.114 34.267 | | |
| DFFSET | -8.000 -7.950 -6.450 -3.350 | 0.000 | 3.950 6.450 | 7.950 8.000 12.000 | | |
| | | LTPCH 95.415 | | | | |
| | TIONC | | | | | |
|) – ROAD CROSS SEC | TIUNS | | | | | |
| <u>) – ROAD CROSS SEC</u> | TIUNS | | | | | |
| D – ROAD CROSS SEC | | | | KALA ESTATE – STA ROAD CROSS S | | |





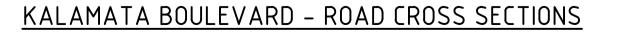
KALAMATA BOULEVARD

| H 1:100 0 SCALE @ A1 V 1:50 0 | 2 | 2 | 6m 3m | COPYRIGHT The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley | CONSULTING ENGINEERS | | ROUP |
|-------------------------------------|---|---|--------------|---|---|---------------------|---------------|
| | | | | Consulting Engineers constitutes an infringement of copyright. | Street Address Level 20, 390 St Kilda Road W cossillwebley.com.au | APPROVED PE 0005927 | DESIG |
| | | | | This plan is not to be used for construction unless issued as revision 0 or higher | Melbourne VIC 3004 T (03) 8548 1560 | Hom | SCALE H 1: |

| | ROAD CROSS SECTIONS | | | | | | | | | | | |
|-----------------|--------------------------------|-------------|-------------|----------|-----------|--|--|--|--|--|--|--|
| | (SHEET 3 OF 6) | | | | | | | | | | | |
| NED | | • | | | Ξų | | | | | | | |
| . SANSOM | MUNICIPALITY CARDINIA SHIRE CI | OUNCIL | | | RIG NG | | | | | | | |
| | PP No. TOODOO | DRAWING No. | | REVISION | ō | | | | | | | |
| 100 V 1:50 @ A1 | T220227 | | 3086-01-252 | В | | | | | | | | |
| | | | | • | | | | | | | | |

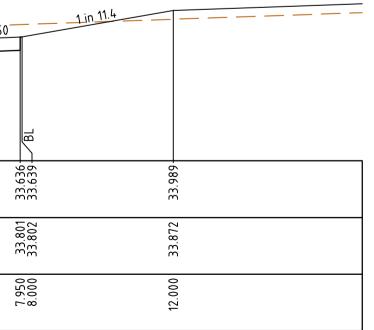
| | | ਛ 1.50 | m - 1 | 2.80m | 16 3.65m | 5.00m 3.65m | | 2.80m | 1.50m |
|--------------------------------|---------------------------|----------------------------|--------------|------------------------|--------------|----------------|--|------------------|----------|
| | | 0.05m | | | 0.60m SM2 | 0.60m SM2 | | - | _ |
| | | | 50 | <u>1 in 16.1 — —</u> | 1 in 30 | 1 in 30 | | 1 in 16.1 | 1 in 50 |
| | | BL | | | | | | | |
| DATUM RL32.0 DESIGN SURFACE | | 33.398 | 33.366 | 33.211 | | 33.237 | 33.126 | | 33.366 |
| EXISTING SURFACE | | 33:333 33:333 33:333 | 33.363 | 33.363 33.368 | | 33.415 | 33.471 33.486 | | 33.555 3 |
| - | | -8.000 -7.950 33 | -6.450 3: | -3.950 3: -3.350 3: | | 0.000 | 3.350 3 3.950 3 | | 6.450 3: |
| OFFSET | | 817 | 9 | | | 1 212.515 | | | 9 |
| | | 1 in | 50 | Lin 16.1 | | ^ - | | 1 in 16.1 | 1 in 50 |
| | | | | | 1 in 30 | 1 in 30 | | <u>1 in 10.1</u> | |
| DATUM RL32.0 | | BL | | | | | | | |
| DESIGN SURFACE | | 33.484 | 33.451 | 33.296 | | 33.323 | 33.211- 33.296- | | 33.451 |
| EXISTING SURFACE | | 33.415 33.415 | 33.412 | 33.421 33.432 | | 33.494 | 33.599 33.632 | | 33.704 |
| OFFSET | | -8.000 -7.950 | -6.450 | -3.950 -3.350 | | 000.0 | 3.350 3.950 | | 6.450 |
| | | | | | CH 1 | 95.465 | | | |
| | | 1 in | 50 | 1 in 16.1 | | ^ - | | 1 in 16.1 | 1 in 50 |
| | | | | | 1 in 30 | 1 in 30 | | | |
| DATUM RL32.0 | | | | | | | | | |
| DESIGN SURFACE | | 33.564- 33.561- | 33.531- | 33.376- 33.291- | | 33.403- | 33.291 [.] 33.376 [.] | | 33.531- |
| EXISTING SURFACE | | 33.495 33.497 | 33.528 | 33.509 33.518 | | 33.567 | 33.629 33.635 | | 33.671 |
| OFFSET | | -8.000 -7.950 | -6.450 | -3.950 -3.350 | | 0.000 | 3.350 3.950 | | 6.450 |
| L | | | | | CH 1 | 79.465 | | | |
| | | 1 in | 50 | <u>Lin 16.1</u> — — | 1 in 30 | 1 in 30 | | 1 in 16.1 | 1 in 50 |
| | | | | | | | | | |
| DATUM RL32.0 | | BL | 9 | | | 8 | 9 | | 9 |
| DESIGN SURFACE | | 33.639- 33.636- | 33.606- | 33.451- | | 33.478- | 33.366- 33.451 | | 33.606- |
| EXISTING SURFACE | | 33.456 33.459 | 33.548 | 33.593 33.602 | | 33.619 | 33.719 33.730 | | 33.775 |
| OFFSET | | -8.000 -7.950 | -6.450 | -3.950 | | 0.000 | 3.350 3.950 | | 6.450 |
| | | | | | LTPCH | 164.415 | | | |
| | | | | | | | | | |
| 5 AT Juni Kor ISSUE | ED FOR COUNCIL SUBMISSION | | | | | | | | |
| NT MA K. LORRIMAR INITIA | IL ISSUE | | | | | | | | |
| DRN CKD APP | ^ | MENDMENT | | | | | | | |
| | AI | | | | | | | | |





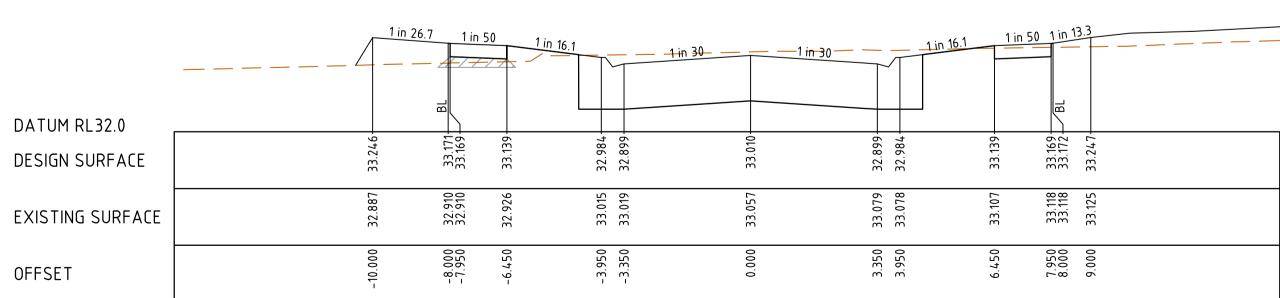
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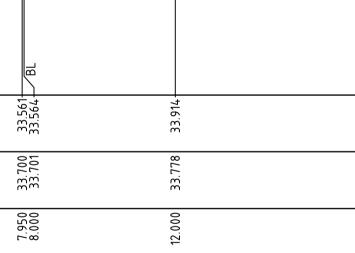
OFFSET

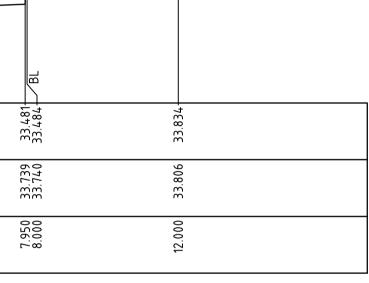


H 1:100 0 SCALE @ A1

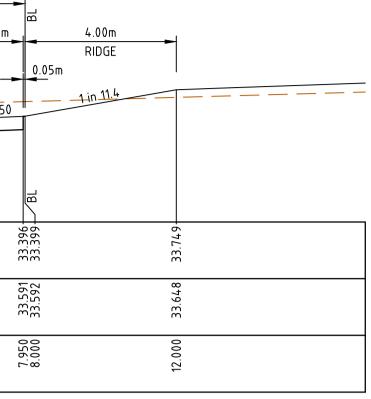
V 1:50

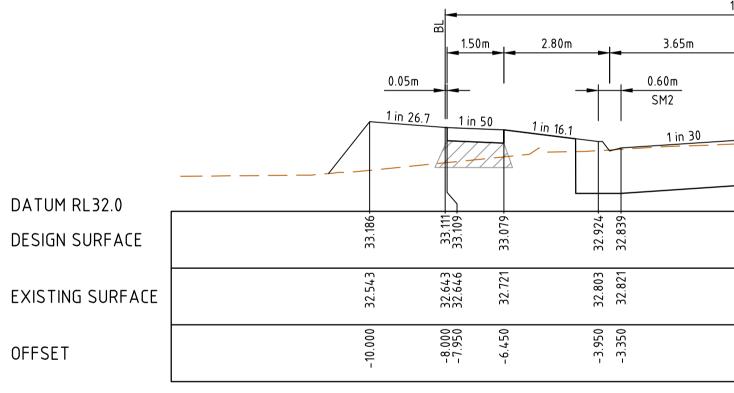






1 in 11.4





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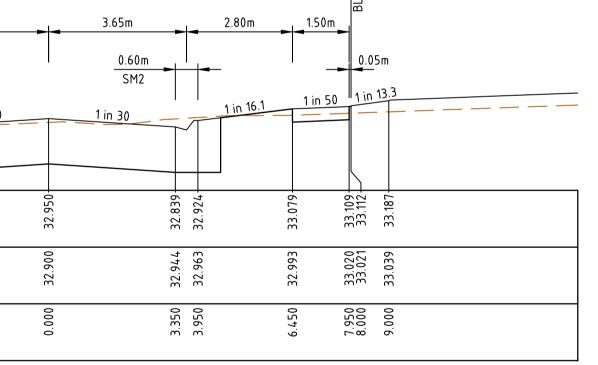
PPROVED PE 0005927 Kom DESIGNE W. SCALE H 1:10

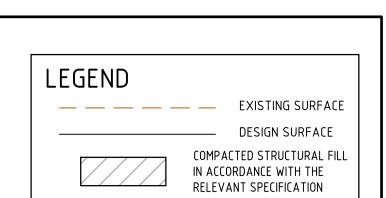
| PROJECT KALA ESTATE - STAGE 01 TITLE ROAD CROSS SECTIONS (SHEET 4 OF 6) | | | | | | | | | | | | |
|---|------------------------------|---|---------------|--|--|--|--|--|--|--|--|--|
| RUAD LRUSS SELTIONS SNED (SHEET 4 OF 6) I I I I I I I I I I I I I I I I I I I | | KALA ESTATE - STAGE 01 | $\overline{}$ | | | | | | | | | |
| | | RUAD LRUSS SELTIONS | | | | | | | | | | |
| V. SANSOM MUNICIPALITY CARDINIA SHIRE COUNCIL 말访 | ^{gned} /. SANSOM | (SHEET 4 OF 6) MUNICIPALITY CARDINIA SHIRE COUNCIL | | | | | | | | | | |
| E T220227 DRAWING No. 3086-01-253 B | e :100 V 1:50 @ A1 | | ОR | | | | | | | | | |

RTPCH 257.915

LOW 269.965

16.00m





LESTRA WAY - ROAD CROSS SECTIONS

| DATUM RL33.0 | 1 in | 6 1 in 50 | <u>1 in 15</u> | <u> </u> | 1_in_30 | | 1 in 15 | 1 in 50 | B |
|------------------|-------------------|--------------------|----------------|----------|---------|--------|---------|---------|--------------------|
| DESIGN SURFACE | 34.239- 24.455 | 34.152- 34.152- | 33.955- | 33.870- | 33.982+ | 33.870 | 33.955- | 4.122- | 34.152- 34.155- |
| DESIGN SOM ACE | | | | | | | | 34 | |
| EXISTING SURFACE | 34.131 24.131 | 34.119 | 34.042 | 34.036 | 33.998 | 33.959 | 33.952 | 33.923 | 33.905 33.905 |
| OFFSET | - 8.500 8.000 | -7.950 -7.950 | -3.950 | - 3.350 | 0000 | 3.350 | 3.950 | 6.450 | 7.950 8.000 |
| | | | | TPCH | 11.950 | | | | |

| DESIGN SOM ACE | m mm | ŝ | | ία. | | ŝ | mm |
|------------------|----------------------------|--------|--------------------|---|------------------|--------|------------------|
| EXISTING SURFACE | 33.750 33.743 33.742 | 33.722 | 33.693 33.687 | 33.650 | 33.612 33.603 | 33.568 | 33.547 33.546 |
| OFFSET | -8.500 -8.000 -7.950 | -6.450 | -3.950 -3.350 | 0.000 | 3.350 3.950 | 6.450 | 7.950 8.000 |
| | | | | CH 36.000 | | | |
| | | 50 1 | <u>in 151 in 3</u> | <u>30 </u> | _301 in 15 | 1 in | 50 |

| | <u>1 in 6 1 in 5</u> | 50 <u>1 ir</u> | 2.15 | <u>1 in 30 — 1 in </u> | 301 in 1 | 5 1 in 1 | 50 |
|------------------|-------------------------------|----------------|--------------------|--|------------------|----------|--------------------|
| DATUM RL32.0 | | | | | | | |
| DESIGN SURFACE | 33.876- 33.793- 33.790- | 33.760- | 33.593- 33.508- | 33.619. | 33.508 33.593 | 33.760- | 33.790- 33.793- |
| EXISTING SURFACE | 33.750 33.743 33.742 | 33.722 | 33.693 33.687 | 33.650 | 33.612 33.603 | 33.568 | 33.547 33.546 |
| | 500 950 | 50 | 950 350 | 000 | 350 950 | 50 | 950 |

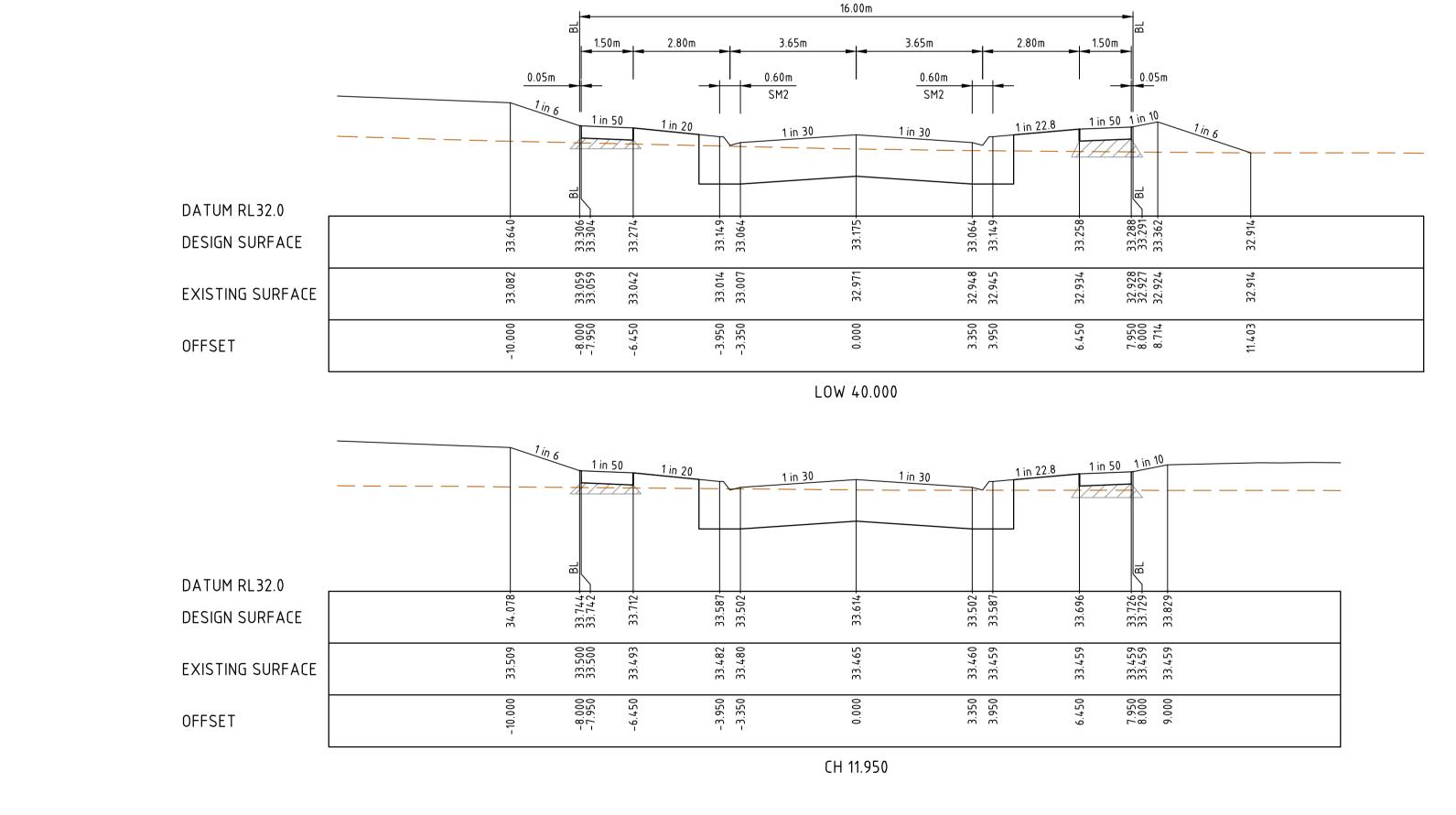
| | | 1.50m | 2.80m | | 3.65m | | 3.65m | | 2.80m | 1.50m | |
|------------------|-----------|--------------------|---------|---------|---------------------|-----------|----------|---------|---------|---------|--------------------|
| | 0.05m | | - | | 0.60m SM2 | | 0.60m | - - | - | _ | 0.05m |
| | 1 ir. | 6 1 in 50 | 1 in 15 | | - <u>1 in -30</u> - | | <u> </u> | | 1 in 15 | 1 in 50 | 2 |
| DATUM RL32.0 | ā | | | | | | | | _ | | BL |
| DESIGN SURFACE | 33.514- | 33.430- 33.427- | 33.397- | 33.230- | 33.145- | 33.257- | 33.145- | 33.230- | | 33.397- | 33.427- 33.430- |
| EXISTING SURFACE | 33.385 | 33.378 33.377 | 33.354 | 33.325 | 33.317 | 33.278 | 33.238 | 33.231 | | 33.201 | 33.184 33.183 |
| OFFSET | -8.500 | -8.000 | -6.450 | -3.950 | -3.350 | 0.000 | 3.350 | 3.950 | | 6.450 | 7.950 8.000 |
| | | | | | TF | PCH 60.05 | 50 | | | | |

16.00m

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|--------------|--|--|--------|
| | This plan is not to be used for construction unless issued as revision 0 or higher | Level 20, 390 St Kilda Road W cossillwebley.com.au Melbourne VIC 3004 T (03) 8548 1560 E Melbourne.Reception@cosweb.com.au | |



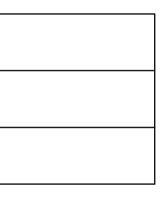
BRANCH ROAD - ROAD CROSS SECTIONS

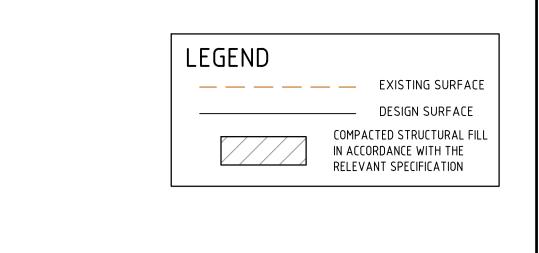


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PPROVED PE 0005927

Kom





| PROJECT KALA ESTATE - STAGE 01 TITLE ROAD CROSS SECTIONS UNICIPALITY SHEET 5 OF 6) CARDINIA SHIRE COUNCIL SCALE H 1:100 V 1:50 @ A1 PP NO. T220227 DRAWING NO. BRAWING NO. 3086-01-254 | | | | | | | | | |
|--|---|-------------------------------|-----------|----------|----------|--------|-------------|--|------|
| DESIGNED (SHEET 5 OF 6) UNICIPALITY V. SANSOM MUNICIPALITY CARDINIA SHIRE COUNCIL SCALE PP No. T220227 | | | PROJECT | KALA EST | ATE - S1 | AGE 01 | | | - |
| W. SANSOM MUNICIPALITY CARDINIA SHIRE COUNCIL Image: Council | C | OUP TITLE ROAD CROSS SECTIONS | | | | | | | ∢ |
| | | | MUNICIPAL | | | • | | | |
| | | SCALE | PP No. | | | | 3086-01-254 | | NOR. |

| В | 23.01.25 | AT | Alaster | Hor | ISSUED FOR COUNCIL SUBMISSION |
|-----|----------|-----|---------|-------------|-------------------------------|
| А | 14.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
| | | | | | |
| | | | | | |
| | | | | | |
| REV | DATE | DRN | CKD | APP | AMENDMENT |

| <u>OLIVE GROVE – ROAD CROSS SECTI</u> | <u>ONS</u> |
|---------------------------------------|------------|
| | |

TPCH 11.950

| UFFSEI | 87 6 M M 6 M M |
|------------------|---|
| | LOW 36.000 |
| | <u>1 in 50</u> 1 in 20 1 in 30 1 in 30 1 in 20 1 in 50 |
| DATUM RL32.0 | |
| DESIGN SURFACE | 33.462 33.462 33.460 33.450 33.331 33.450 33.460 33.460 33.460 |
| EXISTING SURFACE | 33.470 33.470 33.475 33.487 33.445 33.445 33.446 33.446 33.446 33.4475 33.4475 33.4475 33.4475 33.4475 33.4475 33.4475 33.4775 |
| OFFSET | -8.000 -7.950 -3.350 -3.550 -3.550 -3.5000 -3.5000 |

| | 0.05m | | | 0.60m SM2 | 0.60m | | 0.05m |
|------------------|-------|--------------------|----------------------------|----------------------------|---------------|----------------------------|----------------|
| | | 1 in 50 | 1 in 20 | <u> </u> | — 1 in 30 — 7 | 1 in 20 | <u>1 in 50</u> |
| DATUM RL31.0 | | BL | | | | | BL |
| DESIGN SURFACE | | 32.981- 32.979- | 32.949- | 32.739 32.739 32.739 | 32.039- | 32.824. 32.84. | t 66. |
| EXISTING SURFACE | | 32.908 32.907 | 32.906 32.906 32.905 | 32.904 | 32.922 | 32.924 32.924 32.925 | 32.922 |
| OFFSET | | -8.000 -7.950 | -6.450 | | u000 3.350 | 3.950 6.50 | t 60 |

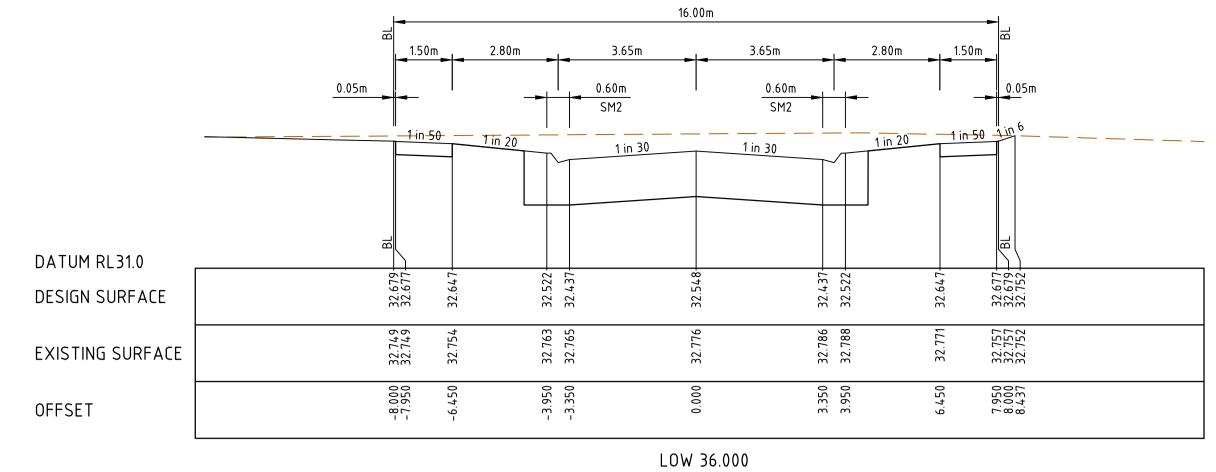
<u>DELPHI ROAD – ROAD CROSS SECTIONS</u>

16.00m

1.50m 2.80m 3.65m 3.65m 3.65m 2.80m 1.50m

| TP | CH | 11. | 950 |
|----|----|-----|-------|
| | | | / / 0 |

| | | | 50 1 in | 20 1 | in 30 1 in | 30 1 in 2 | 20 <u> </u> | |
|------------------|---|--------------------|---------|------------------|------------|------------------|--|--|
| DATUM RL32.0 | ſ | | | | | | | |
| DESIGN SURFACE | | 33.115- 33.112- | 33.082 | 32.957 | 32.984 | 32.872 | 33.082- 33.112- 33.115- 33.153- | |
| EXISTING SURFACE | | 33.272 33.272 | 33.260 | 33.241 33.237 | 33.212 | 33.188 33.184 | 33.166 33.155 33.153 33.153 | |
| OFFSET | | -8.000 -7.950 | -6.450 | -3.950 -3.350 | 0.00.0 | 3.350 3.950 | 6.450 7.950 8.000 8.229 | |



| H 1:100 SCALE @ A1 V 1:50 0 | 2 | 4 | 6m | COPYRIGHT The concepts and information contained in this document are the Copyright of Cossill & Webley Consulting Engineers. Use or copying of the document in whole or part without the written permission of Cossill & Webley | Cossill & Webley | | OUP |
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| | | | | This plan is not to be used for construction unless issued as revision 0 or higher | Melbourne VIC 3004 T (03) 8548 1560 | Kom | W. 9 SCALE H 1:100 |

OSS SECTIONS 0

| OLEA | WAY | - ROAD | <u>CRO</u> |
|------|-----|--------|------------|
| | | | |

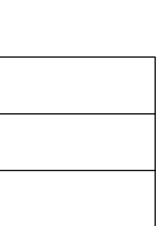
| | LOW 36.000 | | | | | | | | |
|---------------------|---|-----------------|---|--|--|--|--|--|--|
| — — DATUM RL33.0 | 1 in 50 1 in 13 | 1 in 30 1 in 30 | 1 in 13 1 in 50 | | | | | | |
| | 34.379- 34.379- 34.375- 34.153- 34.153- | 34.180 | 34.068- 34.153- 34.375- 34.375- 34.379- | | | | | | |
| DESIGN SURFACE | 34. 34. 34. | 34 | 34. 34. 34. | | | | | | |
| EXISTING SURFACE | 33.917 33.918 33.931 33.957 | 33.975 | 33.993 33.996 34.022 34.042 | | | | | | |
| OFFSET | -8.000 -7.950 -6.450 -3.350 | 0.000 | 3.350 3.950 6.450 8.000 | | | | | | |
| | | TPCH 11.950 | | | | | | | |

OFFSET

EXISTING SURFAC

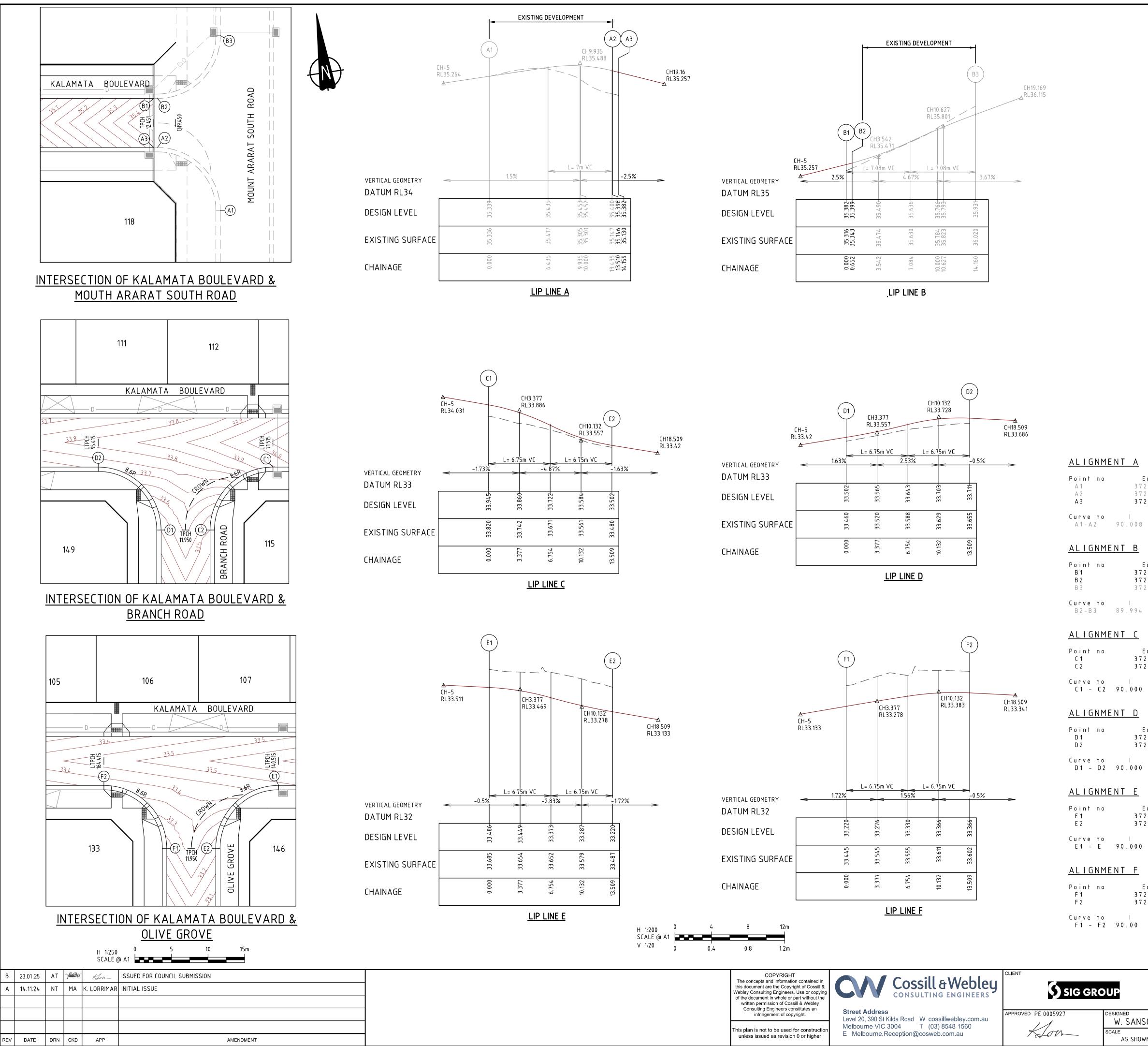
DATUM RL33.0 DESIGN SURFACE

| | ł. | 4 | | | 16.00 | m | | | | - |
|-----|-----------|----------------------------|--|---------|--------------|--------------------|-------------|---------|-----------------------|---------------|
| | B | | 2.80m | | 3.65m | 3.65m | | 2.80m ► | 1.50m | - - |
| | 0.05m | - | | _ • | 0.60m SM2 | 0.60m SM2 | ◄ | _ | | <u>0.0</u> 5m |
| | 1 in 6 | 1 in 50 | 1 in 13 | | 1 in 30 | 1 in 30 | | 1 in 13 | 1 in 50 | |
| | | +++ | | | | | \bigwedge | | | |
| | BL | | | | | | | | | В |
| CE | - 66 7 7E | 34.496- 34.466- | רבער אב | 34.188 | -00E.4E | 34,188- 34,188- | 34.273 | 77 I IC | 200 7 7 7 | 34, 496 |
| ACE | 860 7E | 34.229 34.229 34.245 | 6L6 7E | 34.278 | 4.314 | 34.356 | 34.362 | זרכ וכ | 2 | 34.384 |
| | | -7.950 -6.450 | 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 | -3.350 | 0.00.0 | 3 350 | 3.950 | 7 I ED | 2 1 1 2 0 | 8.000 |



| LEGEND | |
|--------|---|
| | EXISTING SURFACE |
| | DESIGN SURFACE |
| | COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE RELEVANT SPECIFICATION |

| | | KALA ESTATE – S | AGE 01 | | ~ |
|---|------------------------------|---------------------------------------|--|---------------|-------|
| C | DUP | TITLE ROAD CROSS SECTIONS | | |]∢ |
| | designed W. SANSOM | · · · · · · · · · · · · · · · · · · · | (SHEET 6 OF 6) UNICIPALITY CARDINIA SHIRE COUNCIL | | |
| | scale H 1:100 V 1:50 @ A1 | РР №. Т220227 | DRAWING No. 3086-01-255 | REVISION B | ORIGI |



| A 2 A 3 | |
|------------------------------|---|
| Curve no A 1 – A 2 | 9 |

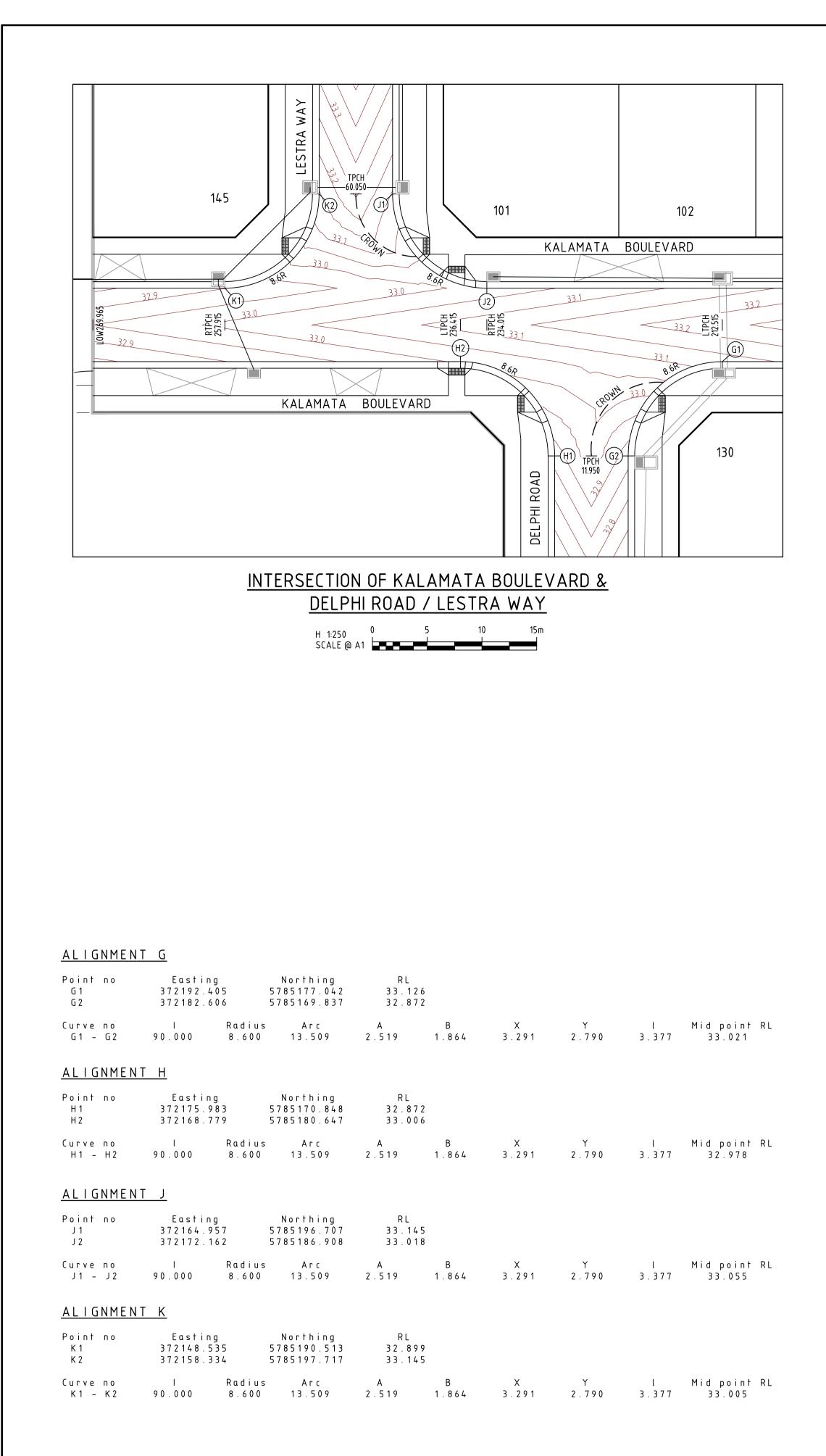
| Point B1 B2 B3 | ПО | |
|-------------------------|----|--|
| Curve | по | |

| Point C1 C2 | ПО | |
|-------------------|-----|--|
| Curvo | D O | |

ALIGNMENT E

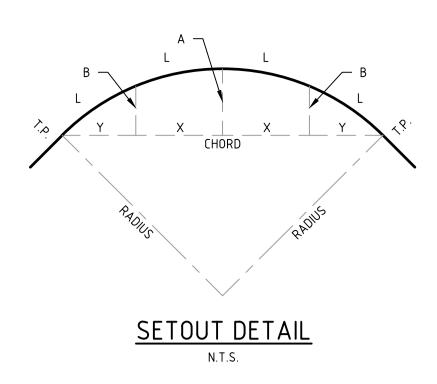
| | DESCRIPTION | | EXIST | TING | | PROPOSED |
|--|--|-----------------|-----------------------------------|-------------------|-------------------|------------------------|
| | STORMWATER DRAIN & PIT | | | | | |
| | PAVEMENT CONTOUR | | <u> </u> |)0 | | 52.00 |
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| | | | | | | |
| | | | | Α — | | |
| | | B - | | | | В |
| | ×. | | | X HOR | X | Y K8. |
| | / | ``` | | C (12) | | |
| | | | RADIUS | \ | /. | RADUS |
| | | | | | | |
| | | | SE | TOUT | DE <u>TA</u> | IL |
| | | | | N.T.S | | — |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| <u>A</u> Easti | | | R L | | | |
| 3 7 2 3 9 8 3 7 2 3 9 0 3 7 2 3 9 0 | . 8 4 5 5 7 8 5 1 4 6 . 9 1 5 | | 35.339 35.398 35.382 | | | |
| I Rad .008 8.6 | l ius Arc A E 500 13.510 2.519 1. | B 865 | X 3.291 | Y 2.790 | l 3.378 | Mid point RL 35.440 |
| B | | | | | | |
| E a s t i 3 7 2 3 9 1 . 3 7 2 3 9 1 . | . 1 6 8 5 7 8 5 1 5 3 . 3 4 0 | | R L 3 5.3 8 2 3 5.3 9 9 | | | |
| 372401 | . 6 1 2 5 7 8 5 1 6 0 . 4 4 5 | | 35.931 X | Y | l | Mid point RL |
| .994 8.6 | l ius Arc A E 600 13.508 2.519 1. | 864 | 3.291 | 2.790 | | 35.651 |
| <u>C</u> Easti | ng Northing | | RL | | | |
| 3 7 2 3 3 1 . 3 7 2 3 2 1 . | . 7 9 2 5 7 8 5 1 5 5 . 7 7 4 . 9 9 3 5 7 8 5 1 4 8 . 5 6 9 | | 33.945 33.502 | | | |
| I Rad .000 8.6 | lius Arc A E 600 13.509 2.519 1. | 3 864 | X 3.2 9 1 | Y 2.790 | l 3.377 | Mid point RL 33.722 |
| D | | | | | | |
| Easti 372315 372308 | | | R L 3 3 . 5 0 2 3 3 . 7 1 1 | | | |
| I Rad .000 8.6 | lius Arc A E 500 13.509 2.519 1. | | X 3.2 9 1 | | l 3.377 | Mid point RL 33.643 |
| <u> </u> | | | | | | |
| Easti 372263 | | | R L 3 3 . 4 8 6 | | | |
| 372253. I Rad | .783 5785158.977 lius Arc A E | В | 33.220 X | Y | l | Mid point RL |
| .000 8.6 | | | 3.291 | 2.790 | | 3 3 . 3 7 3 |
| <u> </u> | ng Northing | | R L | | | |
| 372247 372239 | . 159 5785159. 988 | | 33.220 33.366 | | | |
| I Rad .00 8.6 | lius Arc A E 500 13.509 2.519 1. | 3 864 | X 3.2 9 1 | Y 2.790 | l 3.377 | Mid point RL 33.330 |
| | | | | | | |

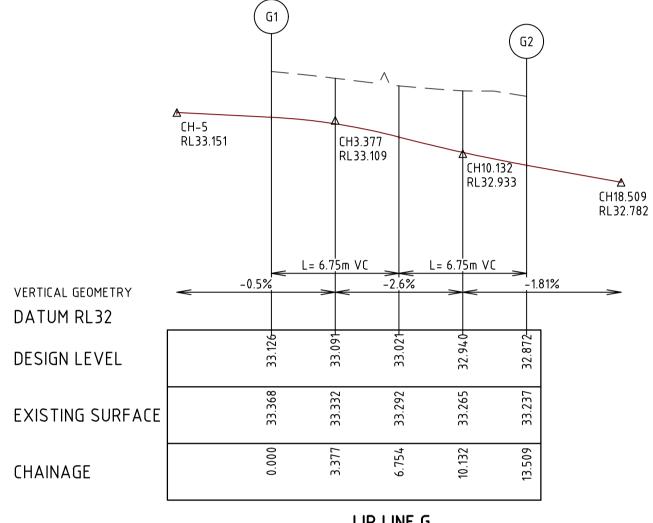
| l | KALA ESTATE - S | TAGE 01 | | 1 |
|----------|------------------------------------|-------------------------|---------------|-----------------|
| | | N DETAILS | | A |
| . SANSOM | (SHEET 1 OF 4 CARDINIA SHIRE CO | • | | RIGINAL SIZE |
| AS SHOWN | PP No. T220227 | DRAWING No. 3086-01-300 | REVISION B | Ð |
| | | | | |

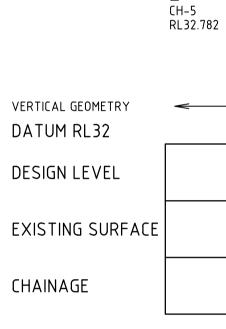


C 09.05.25 MA Main Klow LIP LINE "J" LONG SECTION AMENDED 3 20.01.25 AT MA K. LORRIMAR ISSUED FOR COUNCIL SUBMISSION A 14.11.24 NT MA K. LORRIMAR INITIAL ISSUE REV DATE DRN CKD APP AMENDMENT

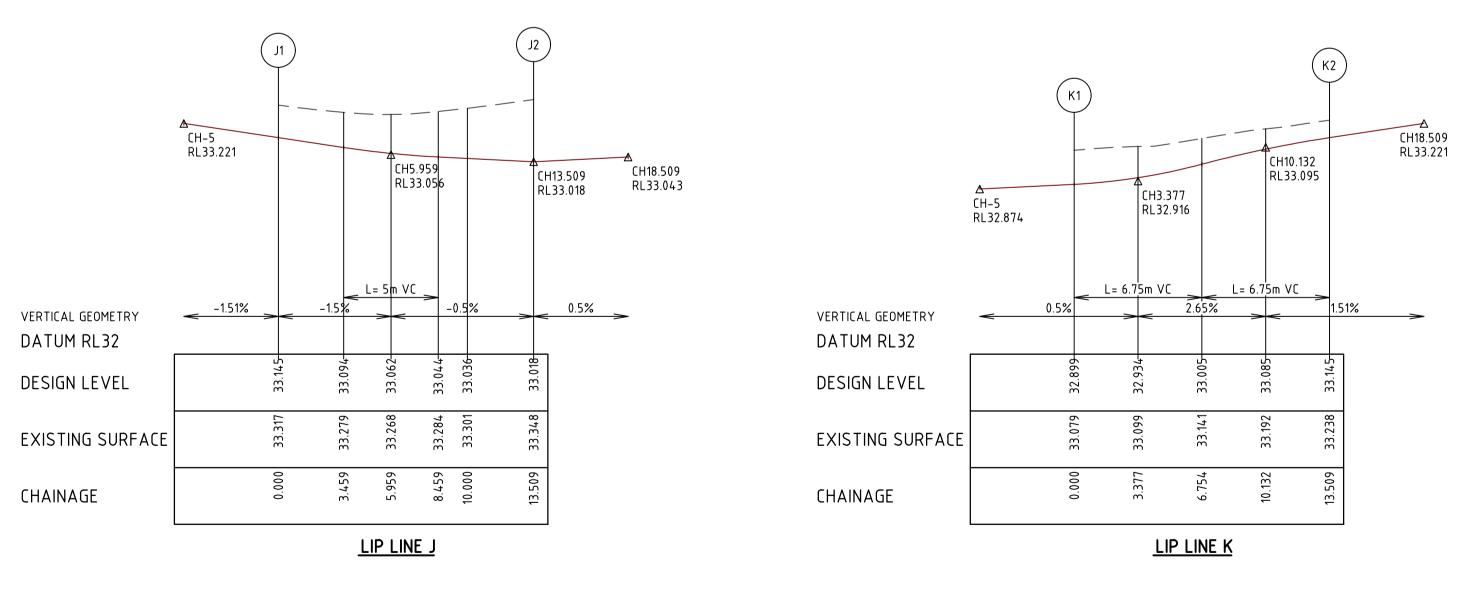


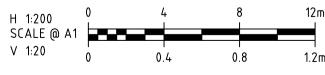






<u>LIP LINE G</u>







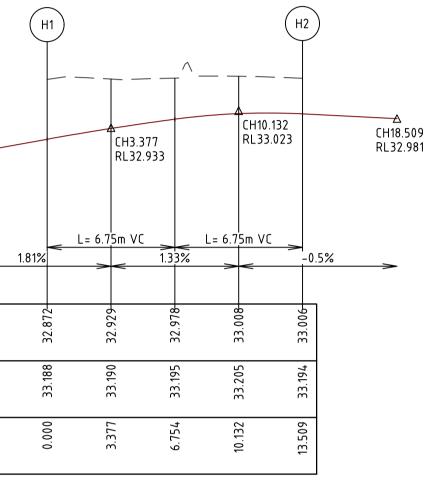


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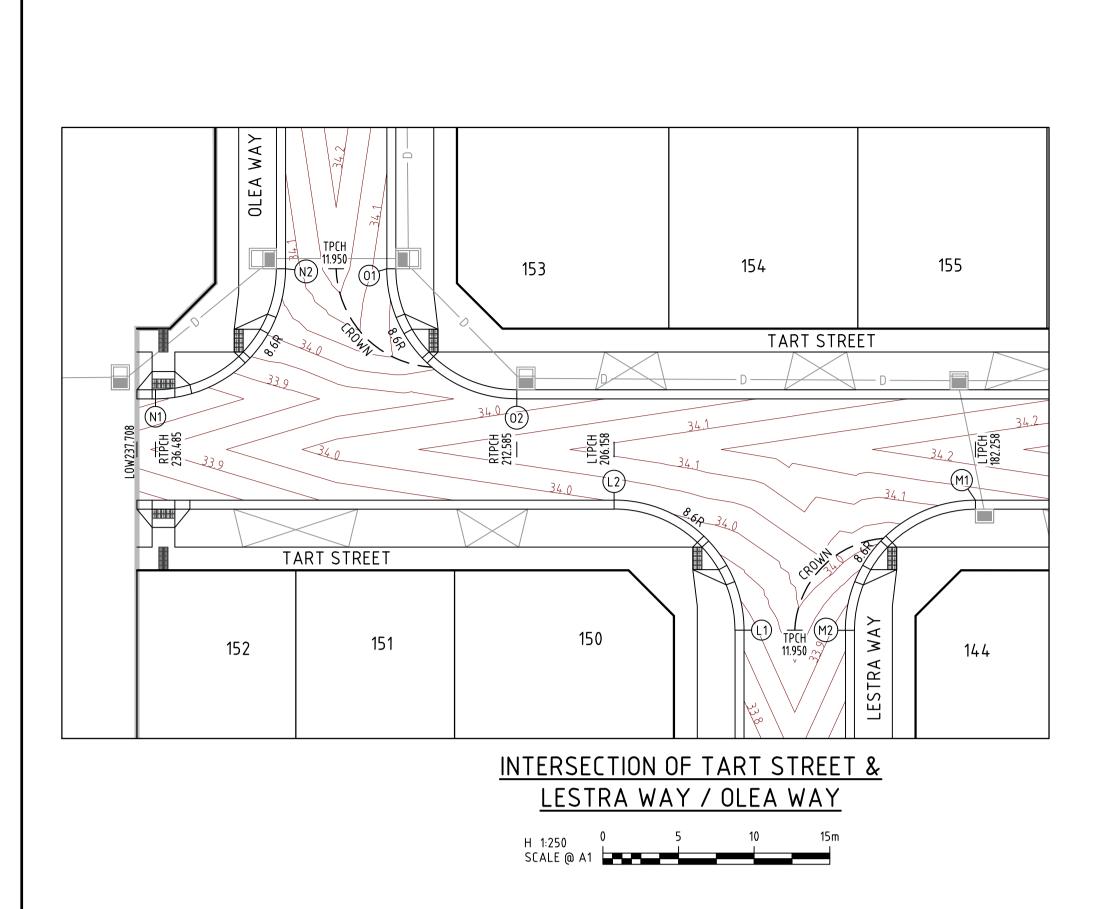
W. SCALE

| LEGEND | | |
|------------------------|--|----------|
| DESCRIPTION | EXISTING | PROPOSED |
| STORMWATER DRAIN & PIT | —————————————————————————————————————— | D |
| PAVEMENT CONTOUR | <u> </u> | |



<u>LIP LINE H</u>

| l | KALA ESTATE - ST | AGE 01 | | ~ |
|------------------|--------------------------------------|-------------------------|---------------|-----------------|
| | INTERSECTION | I DETAILS (SHEET 2 OF | | \triangleleft |
| ned V. SANSOM | 4) MUNICIPALITY CARDINIA SHIRE CO | UNCIL | | RIGINAI SIZE |
| E AS SHOWN | ^{рр No.} Т220227 | DRAWING No. 3086-01-301 | REVISION C | ORI S |

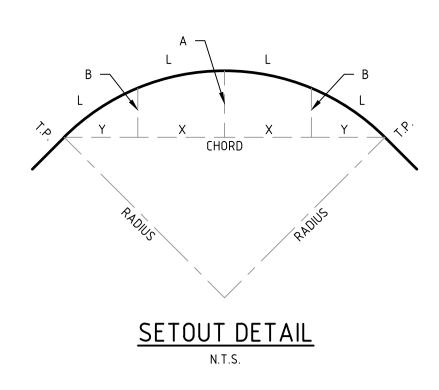


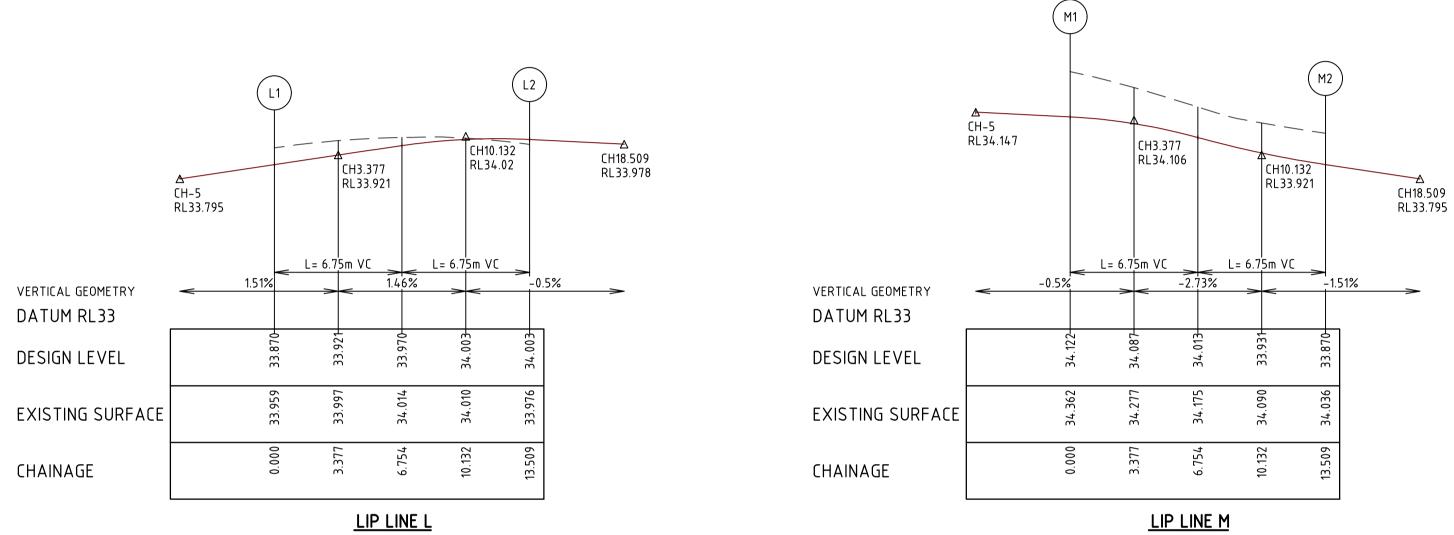
<u>ALIGNMENT L</u>

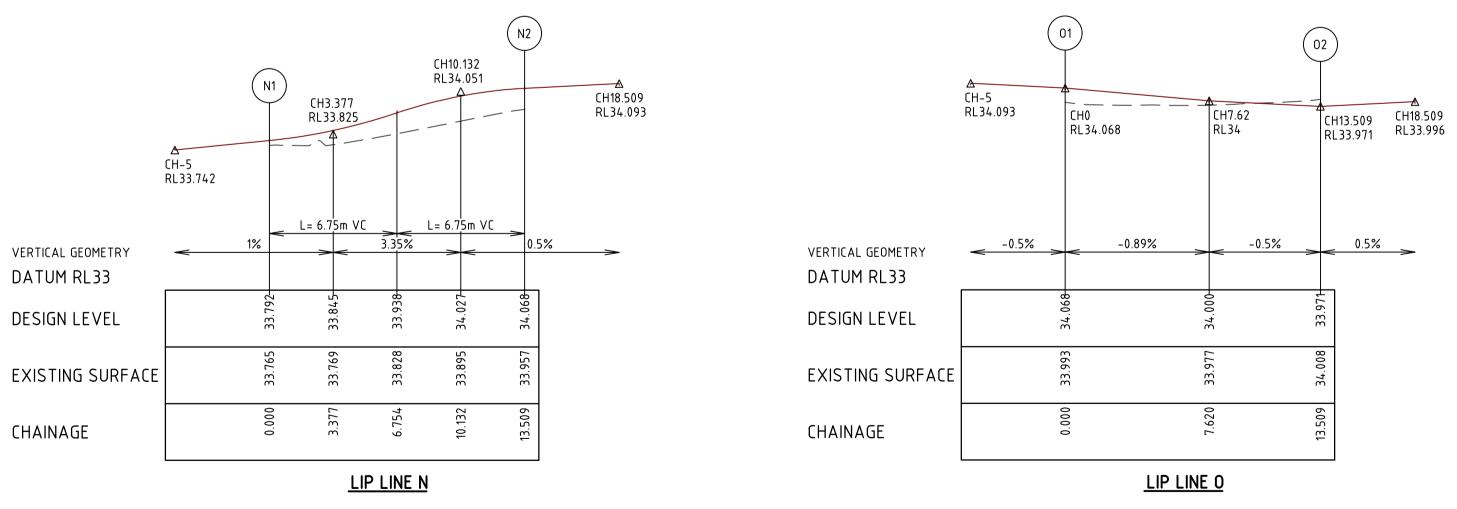
| L 1 L 2 | 372165. 372158. | 589 385 | Northing 5785245.267 5785255.066 | RL 33.87(34.003 | | | | | |
|----------------------|--------------------------------|----------------------|--|------------------------|------------|--------------|------------|------------|------------------------|
| Curve no L1 - L2 | l 90.000 | Radius 8.600 | Arc 13.509 | A 2.5 1 9 | B 1.864 | X 3.2 9 1 | Y 2.790 | l 3.377 | Mid point RL 33.970 |
| ALIGNMEN | <u>T M</u> | | | | | | | | |
| Point no M1 M2 | Eastir 372182. 372172. | ng 011 5 213 5 | Northing 5785251.461 5785244.256 | RL 34.122 33.870 | | | | | |
| Curve no M1 - M2 | 90.000 | Radius 8.600 | Агс 13.509 | A 2.519 | | X 3.2 9 1 | Y 2.790 | l 3.377 | Mid point RL 34.013 |
| ALIGNMEN | <u>T N</u> | | | | | | | | |
| Point no N1 N2 | Eastir 372129.4 372139.4 | 416 5 | 5785266.264 | RL 33.792 34.068 | | | | | |
| Curve no N1 - N2 | 90.000 | Radius 8.600 | Агс 13.509 | A 2.519 | B 1.864 | X 3.2 9 1 | Y 2.790 | l 3.377 | Mid point RL 33.938 |
| ALIGNMEN | <u>T 0</u> | | | | | | | | |
| Point no 01 02 | Eastir 372145. 372153. | ng 838 042 | Northing 5785272.457 5785262.659 | RL 34.068 33.971 | l | | | | |
| Curve no 01 - 02 | | Radius 8.600 | Arc 13.509 | A 2.519 | B 1.864 | X 3.291 | Y 2.790 | l 3.377 | Mid point RL 34.008 |

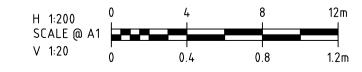
| В | 23.01.25 | AT | Alachei" | Kom | ISSUED FOR COUNCIL SUBMISSION | |
|-----|----------|-----|----------|-------------|-------------------------------|--|
| А | 14.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE | |
| | | | | | | |
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| REV | DATE | DRN | СКД | APP | AMENDMENT | |















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PPROVED PE 0005927 Klow

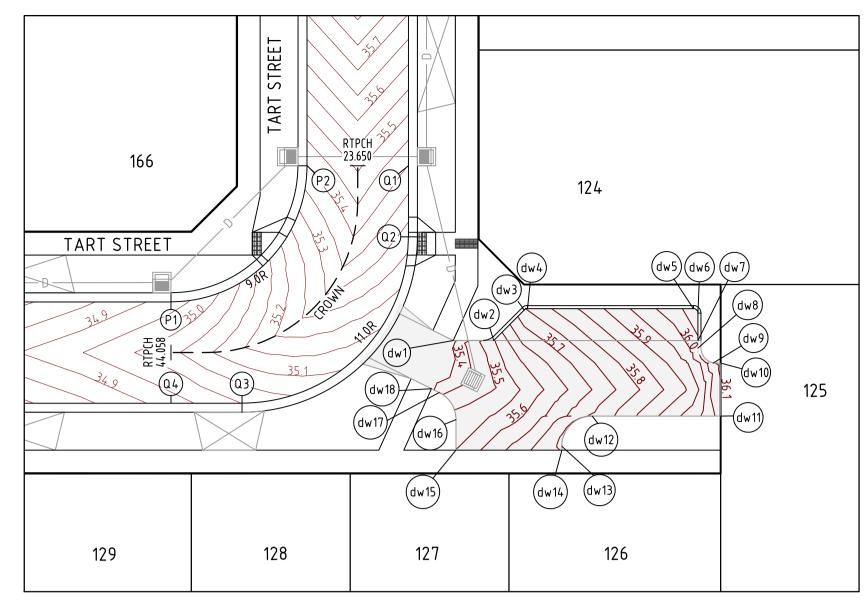


This plan is not to be used for constructio unless issued as revision 0 or higher

| LEGEND | | |
|------------------------|--|----------|
| DESCRIPTION | EXISTING | PROPOSED |
| STORMWATER DRAIN & PIT | —————————————————————————————————————— | D |
| PAVEMENT CONTOUR | <u> </u> | |

<u>LIP LINE M</u>

| | KALA ESTATE - S | TAGE 01 | | - |
|------------------------------|----------------------------------|------------------------|---------------|-----------------|
| | INTERSECTION | N DETAILS | | ∢ |
| ^{gned} V. SANSOM | (SHEET 3 OF CARDINIA SHIRE CC | • | | RIGINAL SIZE |
| e AS SHOWN | ^{рр No.} Т220227 | DRAWING №. 3086-01-302 | REVISION B | Ö |



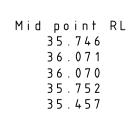
ROAD BEND FOR TART STREET

H 1:250 0 5 10 SCALE @ A1

| <u>ALIGNMEN</u> | <u>IT P</u> | | | | | | | | |
|---|--|---|--|---|--|--|--|--|---|
| Point no P1 P2 | Easting 372319.641 372329.895 | Northing 5785237.238 5785244.778 | RL 34.925 35.399 | | | | | | |
| Curve no P1 - P2 | l Radiu 90.000 9.00 | | A 2.636 | B 1.9 5 1 | X 3.444 | Y 2.920 | l Midpoin 3.534 35.140 | | |
| <u>ALIGNMEN</u> | IT Q | | | | | | | | |
| Point no Q1 Q2 Q3 Q4 | E a st ing 372336.519 372335.810 372323.276 372318.630 | Northing 5785243.767 5785239.121 5785229.906 5785230.615 | RL 35.399 35.274 35.007 34.925 | | | | | | |
| Curve no Q2 - Q3 | l Radio 90.000 11.00 | | A 3.222 | B 2.385 | X 4.210 | Y 3.569 | l Midpoin 4.320 35.120 | | |
| <u>ALIGNMEN</u> | IT dw | | | | | | | | |
| Point no dw1 dw2 dw3 dw4 dw5 dw6 dw7 dw8 dw9 dw10 dw10 dw11 dw12 dw13 dw14 dw15 dw14 dw15 dw16 dw17 dw18 | 3 7 2 3 4 3 . 7 5 5 3 7 2 3 4 3 . 7 1 7 3 7 2 3 3 6 . 7 9 7 3 7 2 3 3 7 . 1 0 1 3 7 2 3 3 6 . 2 7 2 3 7 2 3 3 5 . 8 0 6 | Northing 5785231.901 5785233.183 5785233.238 5785233.238 5785231.582 5785231.240 5785229.461 5785227.827 5785227.827 5785227.827 5785227.827 5785225.574 5785223.899 5785223.899 5785224.292 5785224.292 5785224.292 5785224.292 5785224.292 5785224.292 5785224.707 5785224.707 5785224.707 5785224.707 5785224.507 | 35.75 35.75 35.55 35.49 35.42 35.40 | 5 6 3 9 5 4 7 8 4 1 3 9 1 0 3 5 5 4 5 3 5 5 5 2 5 1 2 4 9 1 2 4 9 7 | | | | | |
| Curve no dw3 – dw4 dw5 – dw6 dw8 – dw9 dw12 – dw13 dw16 – dw17 | 45.000 90.000 89.998 39.001 | 0.300 0.300 1.000 | Arc 0.236 0.471 1.571 3.142 2.221 | A 0 . 0 2 3 0 . 0 8 8 0 . 2 9 3 0 . 5 8 6 0 . 3 0 0 | B 0 . 0 1 7 0 . 0 6 5 0 . 2 1 7 0 . 4 3 4 0 . 2 2 4 | X 0 . 059 0 . 115 0 . 383 0 . 765 0 . 548 | 0 . 0 5 6 0 . 0 9 7 0 . 3 2 4 0 . 6 4 9 | l 0.059 0.118 0.393 0.785 0.555 | М |
| 1.25 AT Maar 1.24 NT MA | K. LORRIMAR INITIAL ISSUE | NCIL SUBMISSION | | | | | | | |
| | | | | | | | | | |

AMENDMENT

DATE DRN CKD APP





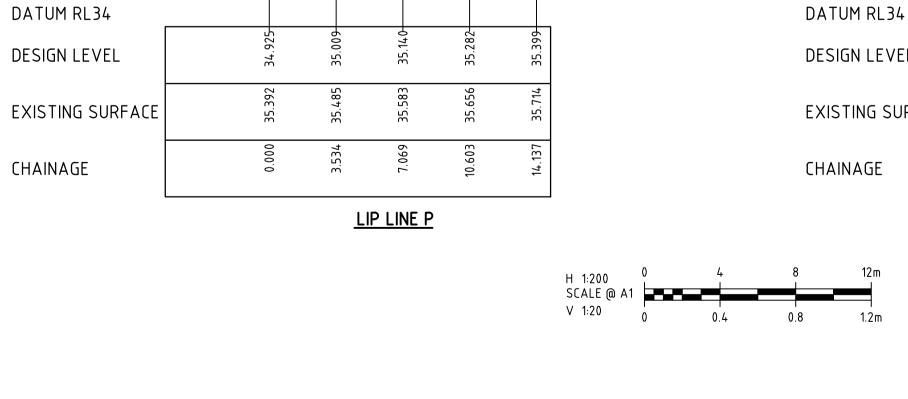


Street AddressLevel 20, 390 St Kilda RoadW cossillwebley.com.auMelbourne VIC 3004T (03) 8548 1560 E Melbourne.Reception@cosweb.com.au

PPROVED PE 0005927 Klow



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2.96%

(P2

CH10.603 RL35.294

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▲ CH19.137 RL35.547

(P1)

1.68%

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VERTICAL GEOMETRY

CHAINAGE

CH3.534 RL34.985

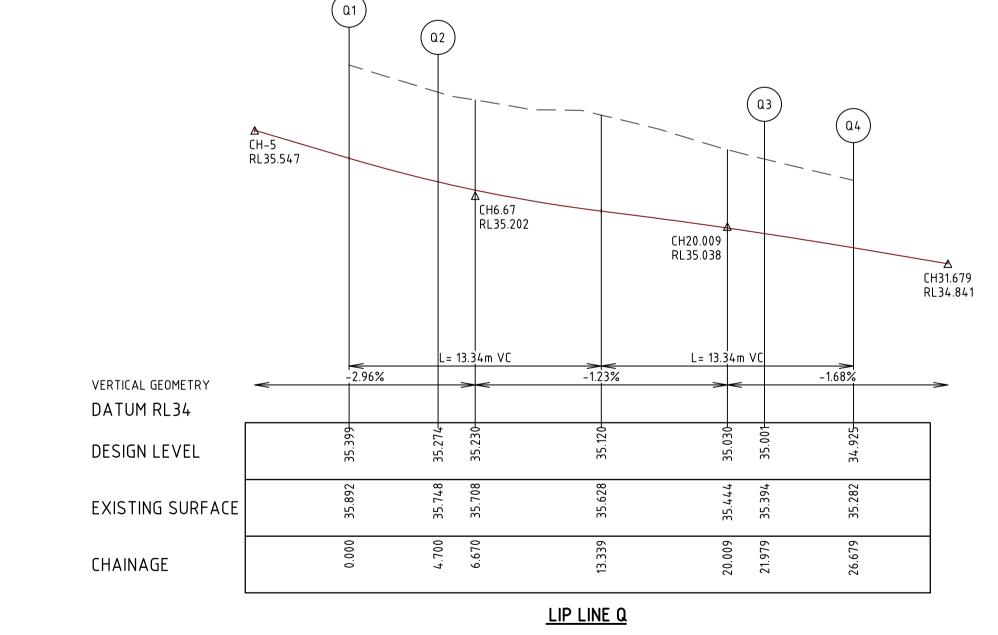
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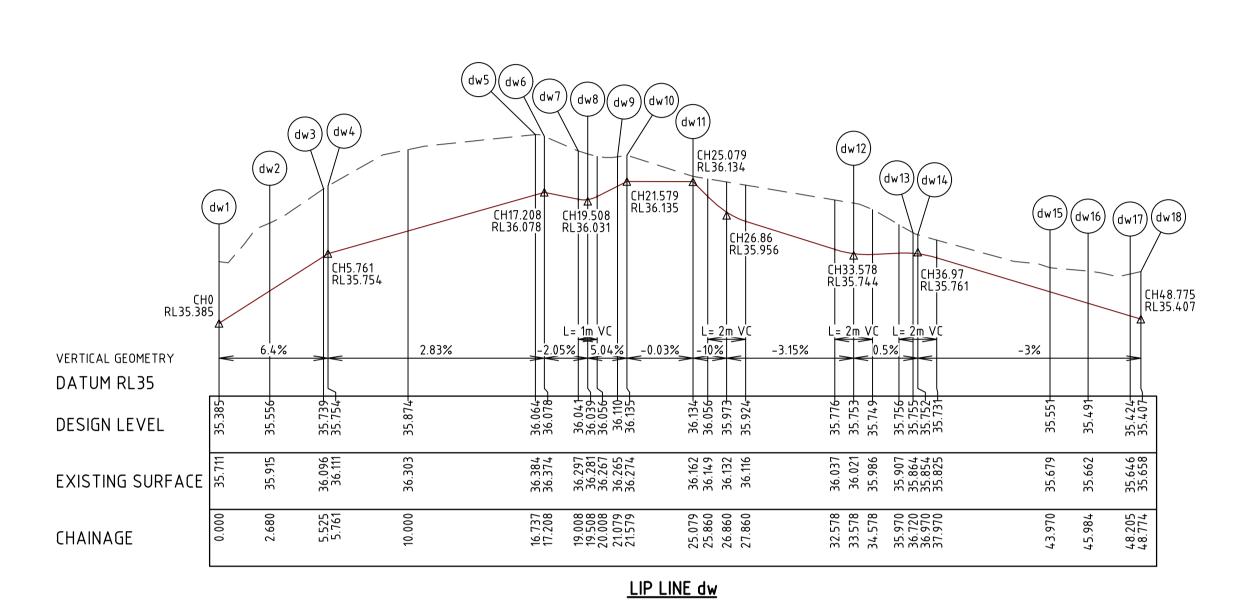
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unless issued as revision 0 or higher

L= 7.07m VC





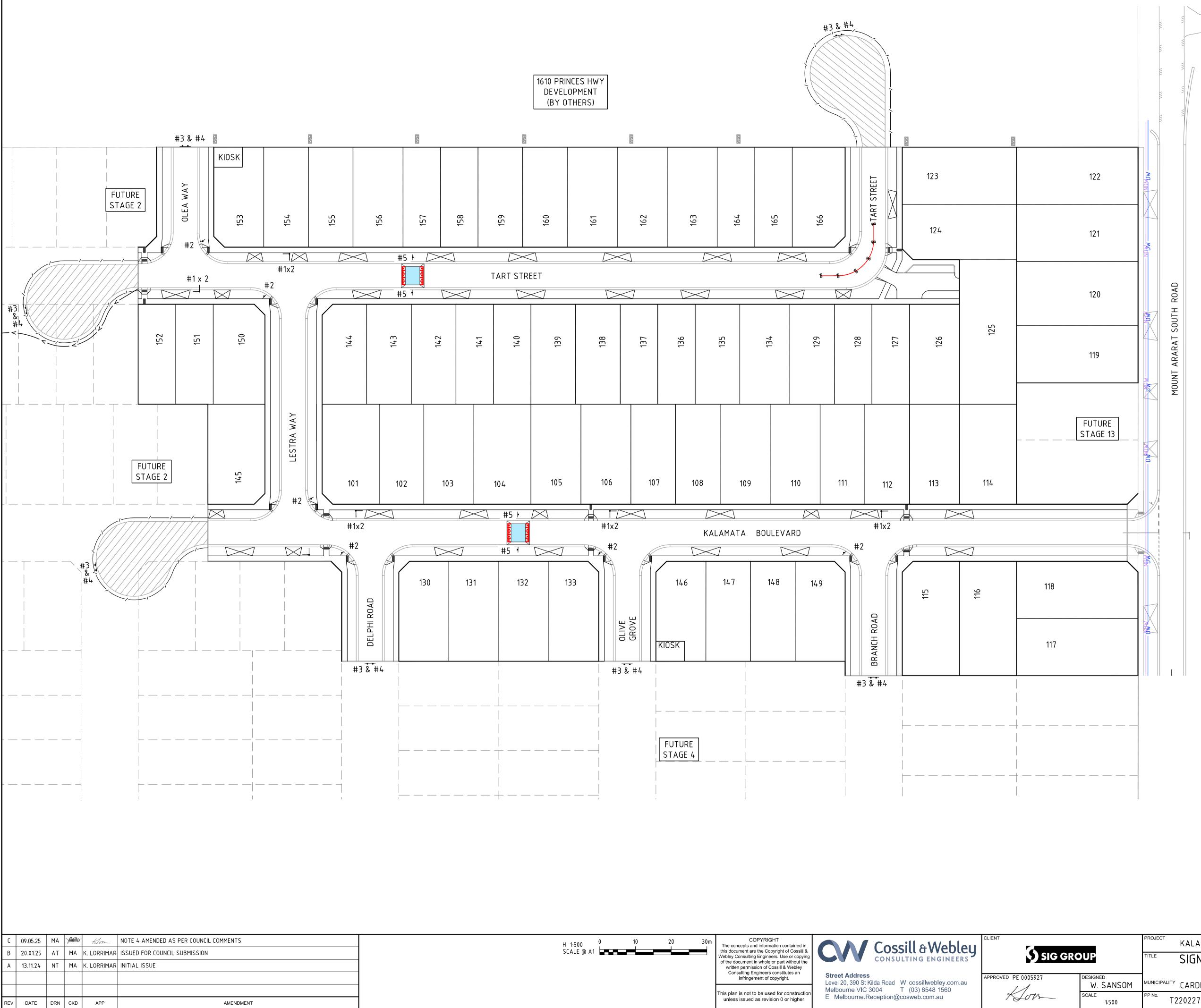
Х

CHORD

SETOUT DETAIL

| LEGEND | | |
|------------------------|--|----------|
| DESCRIPTION | EXISTING | PROPOSED |
| STORMWATER DRAIN & PIT | —————————————————————————————————————— | D |
| PAVEMENT CONTOUR | <u> </u> | |

| | KALA ESTATE - STAGE 01 | 1 |
|------------------------------|---|-----------------|
| | INTERSECTION DETAILS | ∣◄∣ |
| ^{gned} V. SANSOM | (SHEET 4 OF 4) MUNICIPALITY CARDINIA SHIRE COUNCIL | kiginal Size |
| e AS SHOWN | T220227 DRAWING No. 3086-01-303 B | ЧО |



| H 1:500 0 10 20 30m SCALE @ A1 | COPYRIGHT The concepts and information contained in this document are the Copyright of Cossill & | Cossill & Webley | CLIENT |
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| | This plan is not to be used for construction unless issued as revision 0 or higher | Melbourne VIC 3004 T (03) 8548 1560 | Hom |



| SIGNAGE SCHEDULE | | | | | |
|------------------|------------------|----------------|--|--|--|
| NO. | SIGN CODE | SIGN | | | |
| #1 | STREET NAME | STREET NAME | | | |
| #2 | R1-2 | GIVE | | | |
| #3 | D4-5 | ROAD CLOSED | | | |
| #4 | G9-20 | | | | |
| #5 | W5 -10 W8 - 2 | 20 km/h | | | |

NOTES

- RRPM'S IN INSTALLED IN ACCORDANCE WITH AS1742.2 CLAUSE 5.6.
- 2. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
- LINEMARKING IN ACCORDANCE
- WITH AS1742.
- TGSI TO BE INSTALLED IN ACCORDANCE WITH AS1428.4:2002 & MPA STANDARD DWG EDCM 403.
- ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
- 6. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.

| | KALA ESTATE - ST | TAGE 01 | | |
|-------------------------|--------------------------------|-------------------------|---------------|---------|
| | SIGNAGE AND | LINEMARKING PLAN | | < |
| ^{ED} SANSOM | MUNICIPALITY CARDINIA SHIRE CO | UNCIL | | RIGINAL |
| 1:500 | ^{рр No.} Т220227 | DRAWING No. 3086-01-350 | REVISION C | OF |
| | | | | |

| (| 1 | 2 OLEA WAY | 4 5 | 6 | | | 8 9 10 TART STREET | |
|---|---|---|--|----------------------|---|--|--|---|
| | | | | 150¢ SEWER IL 31.481 | | | 150¢ SEWER IL 32.702 | |
| PIPE FLOW (m3/s) PIPE CAPACITY (m3/s) PIPE VELOCITY (m/s) PIPE DIAMETER (mm) PIPE CLASS PIPE GRADE DATUM RL | 0.157 0.202 1.27 450ø 2 1 in 200 27.0 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c c} 0.165 \\ \hline \\ $ | 0.133 0.165 | 0.109 0.124 1.12 375ø 2 1 in 200 | 0.056 0.175 1.59 375ø 2 2 1 in 100 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0.012 0.177 2.5 300ø 2 — 1 in 30 — |
| | 1.793 | 1.934 1.884 1.884 2.171 2.121 2.068 | 2.018 2.018 1.877 1.827 | 1.874 | | 1.784 | 1.627 1.577 1.577 1.831 1.781 1.781 1.604 1.554 | 17.71 |
| | 31.797 | | 32.161 2 32.161 2 32.201 2 32.251 2 | 32.346 | | 878 | 33.401 () 33.451 () 33.699 () 33.749 () 33.925 () 33.975 () | <u>רע אר</u> |
| HYDRAULIC GRADE LEVEL | 22.300 | | 32.598 32.598 32.651 32.651 32.679 | 32.796 | | 33.203 | 33.776 33.804 33.999 34.011 34.225 34.240 | 35,023 |
| | | 33.872 34.202 34.179 | 7.1 4 C | 34.221 | | 34.662 | 35.028 35.530 35.529 | אר 191 אר |
| EXISTING SURFACE LEVEL | 201700 | 33.759 33.960 33.006 | 34.033 | 34.519 | | 34.887 | 35.392 | רזר אד רבר אד |
| PIPE CHAINAGE | 00 | .127 .176 | 0/6/6+ (12.002) | .615 | | 6.955 | 229.305 241.660 (15.322,305 (15.322,305 (15.322,305 (15.322,305 (15.322,305 (15.322,305 (15.322,305 (15.322,305) (15.322,305) (15.322,305) (15.322,325) (15.322,3 | 606 6 |

| C | 09.05.25 | MA | Alastinei | Hor | RE-ISSUED FOR COUNCIL APPROVAL | |
|-----|----------|-----|-----------|-------------|--------------------------------|--|
| В | 20.01.25 | AT | MA | K. LORRIMAR | ISSUED FOR COUNCIL SUBMISSION | |
| А | 13.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE | |
| | | | | | | |
| | | | | | | |
| REV | DATE | DRN | CKD | APP | AMENDMENT | |

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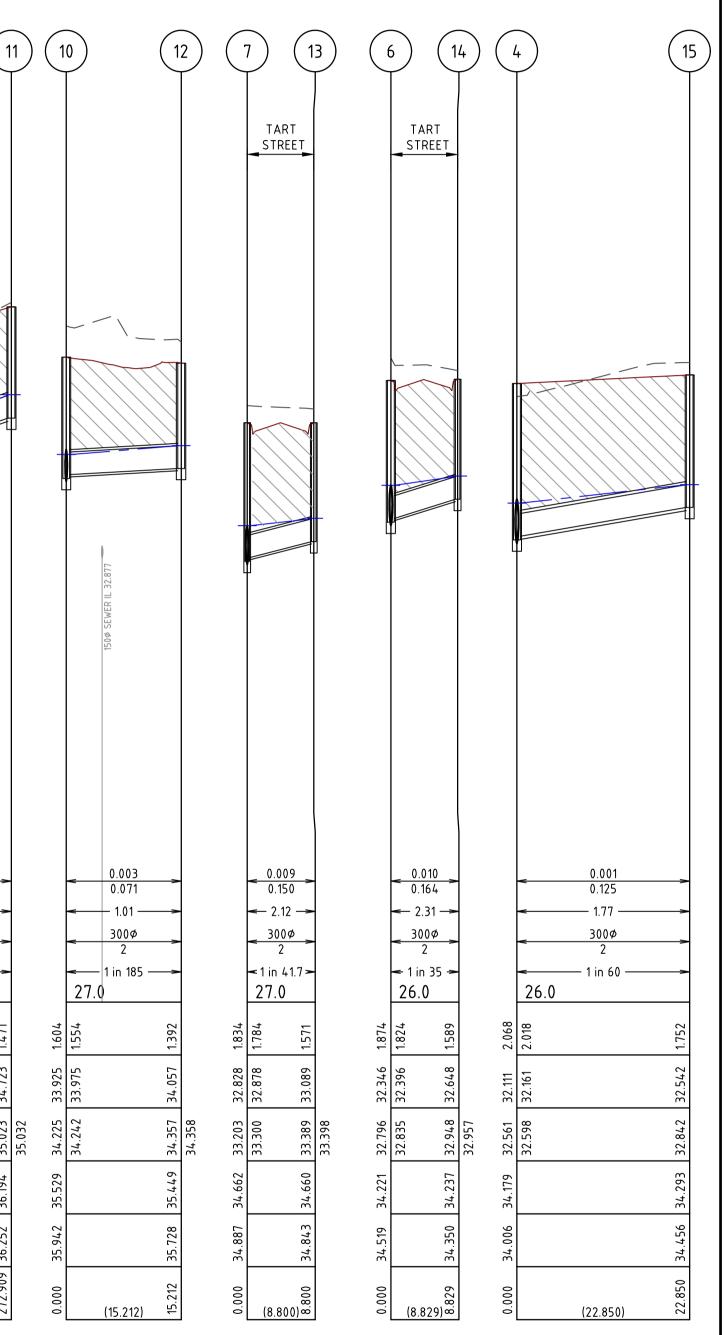
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DENOTES 20mm CLASS 3 FCR BACKFILL.

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



| KALA ESTATE - STA | GE 01 | 1 | |
|--|---|--|--|
| DRAINAGE LON | GITUDINAL SECTIONS | ◄ | |
| (SHEET 1 OF 4) CARDINIA SHIRE COUNCIL | | | |
| PP No. T220227 | AWING No. 3086-01-400 C | ORIC S | |
| | TITLE DRAINAGE LON (SHEET 1 OF 4) CARDINIA SHIRE COUN | KALA ESTATE - STAGE 01 TITLE DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 4) MUNICIPALITY CARDINIA SHIRE COUNCIL | |

| С | 09.05.25 | MA | Alastici | Kor | RE-ISSUED FOR COUNCIL APPROVAL |
|-----|----------|-----|----------|-------------|--------------------------------|
| В | 20.01.25 | AT | MA | K. LORRIMAR | ISSUED FOR COUNCIL SUBMISSION |
| Α | 13.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
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|---|-------------|---|--------|---|------------------|---|--------|---|------------------|----------------------|--------------------|--|
| PIPE FLOW (m3/s) PIPE CAPACITY (m3/s) PIPE VELOCITY (m/s) PIPE DIAMETER (mm) PIPE CLASS PIPE GRADE DATUM RL | | 0.295 0.354 1.25 600¢ 2 1 in 300 – 28.0 | × × | 0.271 0.290 ■ 1.34 ■ 525ø 2 ■ 1 in 220 — | >< | 0.257 0.290 1.34 525ø 2 1 in 220 | > | 0.257 0.290 1.34 → 525Ø 2 1 in 220 → | 0 4 | .258 .285 1.79 | 150¢ SEWER IL 31.2 | |
| DEPTH TO INVERT | 1.808 | | 1.821 | | 1.740 | | 1.944 | 1.894 1.861 | 1.811 | 1 1 2 2 | 1.885 | |
| DESIGN INVERT LEVEL | 30.967 | 30.968 30.968 | 31.014 | 31.064 31.066 | 21.205 31.255 | | 31.310 | 31.360 31.398 | 31.4.48 | ۲09 JE | 31.743 | |
| HYDRAULIC GRADE LEVEL | 31.600 | | 31.632 | 31.651 | 31.1/4 31.843 | | 31.887 | 31.933 31.963 | 32.155 32.113 | C15 C5 | 32.580 | |
| FINISHED SURFACE LEVEL | 32.775 | | 32.834 | | CKK.75 | | 33.254 | 33.259 | | 8 <i>0</i> 9 EE | | |
| EXISTING SURFACE LEVEL | 32.559 | | 32.601 | | 53.083 | | 33.237 | 33.336 | | 117 EF | | |
| PIPE CHAINAGE (Reach Length) | 0.000 | (13.797) | 13.797 | (31.150) | 44.741 | (12.108) | 57.055 | 087 (8.425)9 | (24 | ۲.450) ومج د.450 | | |

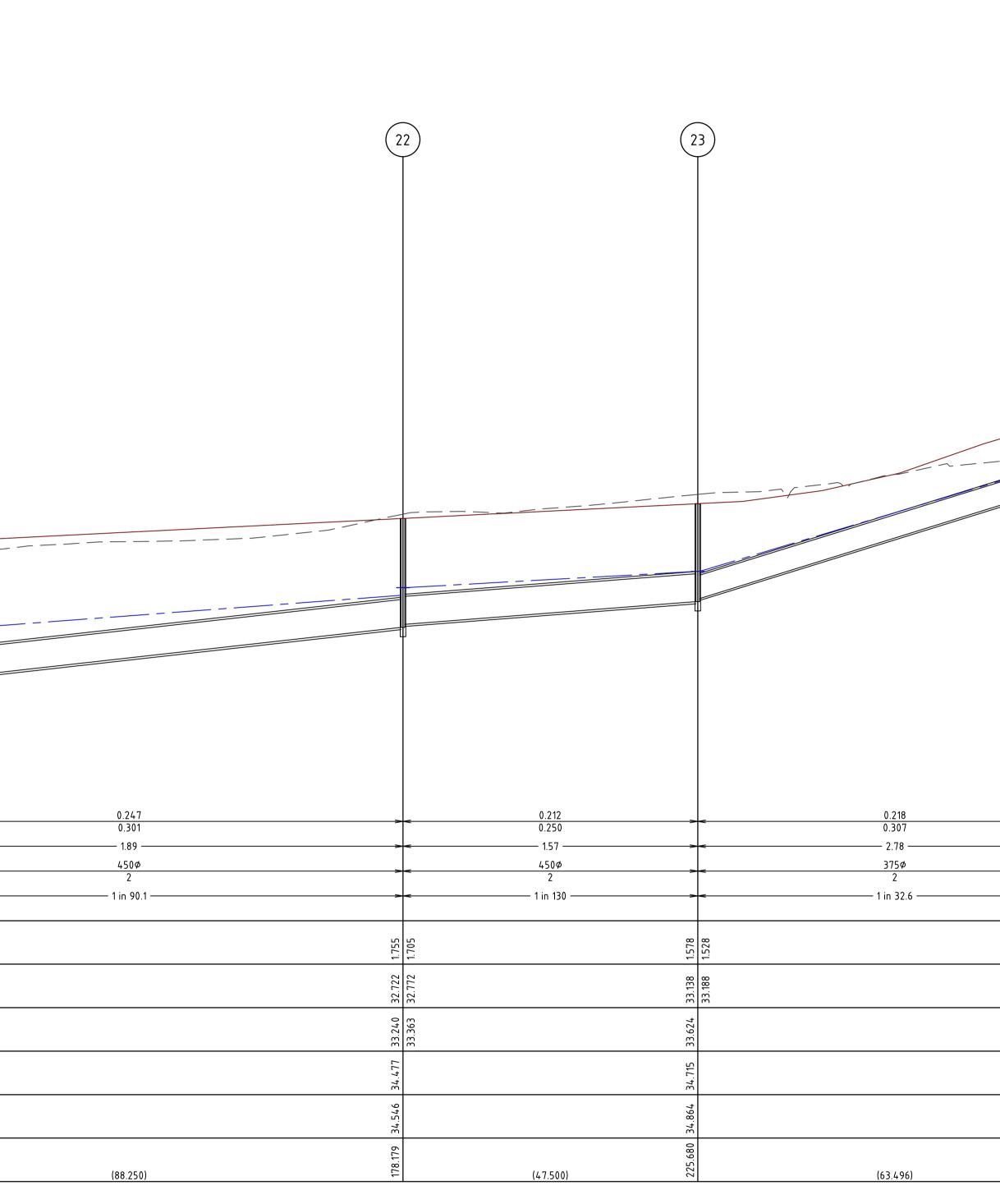
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| | | | | DENOTES 20mm CLASS FCR BACKFILL. | 3 |
|---|--|--|---------------------------|--|---------------|
| | | INCLU | STORMWATER IDING 750mm | R DRAINS UP TO AND DIA. ARE TO BE CLASS (SS NOTED OTHERWISE. | 2 |
| | | | | TRAFFICABLE TYPE 'R 'F' CONTROLLED COMP FILL INSTALLED TO MF SPECIFICATION, ADJAC TO RETAINING WALL. | ACTED RWA |
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| | R IL 33.64 | | | | |
| | 150¢ SEWER IL 33.644 | | | | |
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| | >< | 0.162 0.274 | | 0.134 | -> |
| | >< | 2.48 | | 2.04 | > |
| | ~ | 375ø 2 ——————————————————————————————————— | | 300¢ RCP | > > |
| | | | | | |
| č | 212 | | 1868 | | 0 0.926 |
| | 8 1.304 8 1.254 | | | | 0 |
| | 35.138 35.188 | | | 36.556 | 37.000 |
| | 35.513 35.138 35.963 35.188 | | | 36.913 36.55 | 37.300 37.00 |
| | 35.138 35.188 | | | 36.913 | |
| | 36.442 35.513 35.138 35.963 35.188 35.963 35.188 | | ۲۶۵ ۶۲۶ ۶۲۶ ۲۶۵۶ | 36.913 | 37.926 37.300 |
| | 35.513 35.138 35.963 35.188 | (54.003) | 36 881 | 36.913 | 37.300 |

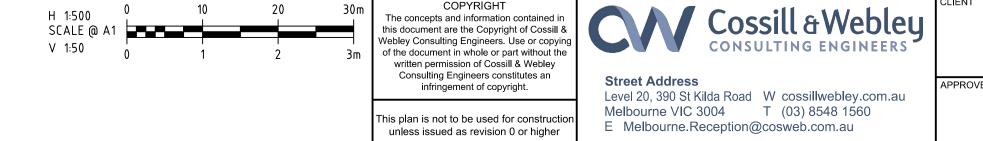
| | | KALA ESTATE - S | TAGE 01 | | | - | |
|----|-------------------------|----------------------------------|------------------------|---|---------------|-----------------|--|
| RC | OUP | DRAINAGE LONGITUDINAL SECTIONS | | | | | |
| | designed W. SANSOM | (SHEET 2 OF CARDINIA SHIRE CO | • | | | RIGINAL SIZE | |
| | scale H 1:500 V 1:50 | ^{рр №.} Т220227 | DRAWING NO. 3086-01-40 | 1 | REVISION C | Ð | |

| | | | | | | | | | NOTES: ALL STORMWATER DRAINS UP TO A INCLUDING 750mm DIA. ARE TO BE CL R.R.J. PIPES UNLESS NOTED OTHERW TRAFFICABLE T` 'F' CONTROLLED FILL INSTALLED SPECIFICATION, TO RETAINING W |
|---|---|--|---|--------------------|--|--------------------|---|---|---|
| LAMATA ULEVARD | 28 24 29 | 30 31 | 32 33 34 KALAMATA BOULEVARD | | 35 | | 36 | | 37 KALAMATA BOULEVARD |
| | | | 150¢ SEWER IL 31.157 | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 33.080 0.009 0.009 0.009 0.0066 1.01 1.00 32.788 0.901 1.00 1.02.0 32.080 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00 1.02.0 1.02.0 1.00.0 1.02.0 1.02.0 1.00.0 1.02.0 1.02.0 1.00.0 1.02.0 1.02.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 1.00.0 </td <td>30.656 1 iu 2111 - 1 iu 75.5 20.656 1.812 - 1 iu 75.5 30.656 1.812 - 1 iu 75.5 30.793 1.777 - 1 iu 75.5 30.656 1.812 - 1 iu 75.5 30.795 - 1 iu 75.5 30.755 - 1 iu 75.5 30.755</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>0.415 0.430 </td> <td>121.684 33.924 33.592 32.715 31.923 1.669 v v v 32.786 31.976 1.616 v v v</td> <td>0.397 0.414 </td> <td>190.664 34.077 34.059 33.074 32.290 1.769 v v v v v v v v v v v v v v v v v v v</td> <td>0.374 0.443 2.78 450¢ 2 </td> <td>0.001 0.097 1.37 1.37 300\$ 2 1 in 99.4 1.101 1 in 99.4</td> | 30.656 1 iu 2111 - 1 iu 75.5 20.656 1.812 - 1 iu 75.5 30.656 1.812 - 1 iu 75.5 30.793 1.777 - 1 iu 75.5 30.656 1.812 - 1 iu 75.5 30.795 - 1 iu 75.5 30.755 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0.415 0.430 | 121.684 33.924 33.592 32.715 31.923 1.669 v v v 32.786 31.976 1.616 v v v | 0.397 0.414 | 190.664 34.077 34.059 33.074 32.290 1.769 v v v v v v v v v v v v v v v v v v v | 0.374 0.443 2.78 450¢ 2 | 0.001 0.097 1.37 1.37 300\$ 2 1 in 99.4 1.101 1 in 99.4 |

| PIPE FLOW (m3/s) PIPE CAPACITY (m3/s) | | <u> </u> |
|--|---|--|
| PIPE VELOCITY (m/s) | | - 1.61 - |
| PIPE DIAMETER (mm) PIPE CLASS | | <mark>≺ 300∅</mark> 2 |
| PIPE GRADE | | ≺ 1 in 72. |
| DATUM RL | | 25.0 |
| DEPTH TO INVERT | 1.790 | 1.677 |
| DESIGN INVERT LEVEL | 31.205 | 31.318 |
| HYDRAULIC GRADE LEVEL | 31.774 | 31.843 |
| FINISHED SURFACE LEVEL | 32.995 | |
| EXISTING SURFACE LEVEL | 33.083 | |
| PIPE CHAINAGE (Reach Length) | 0.000 | (9.225) |
| | PIPE CAPACITY (m3/s) PIPE VELOCITY (m/s) PIPE DIAMETER (mm) PIPE CLASS PIPE GRADE DATUM RL DEPTH TO INVERT DESIGN INVERT LEVEL HYDRAULIC GRADE LEVEL FINISHED SURFACE LEVEL EXISTING SURFACE LEVEL PIPE CHAINAGE | PIPE CAPACITY (m3/s)PIPE VELOCITY (m/s)PIPE DIAMETER (mm)PIPE CLASSPIPE GRADEDATUM RLDEPTH TO INVERTDESIGN INVERT LEVEL1000000000000000000000000000000000000 |

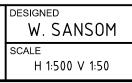
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| В | 20.01.25 | AT | MA | K. LORRIMAR | ISSUED FOR COUNCIL SUBMISSION |
| А | 13.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE |
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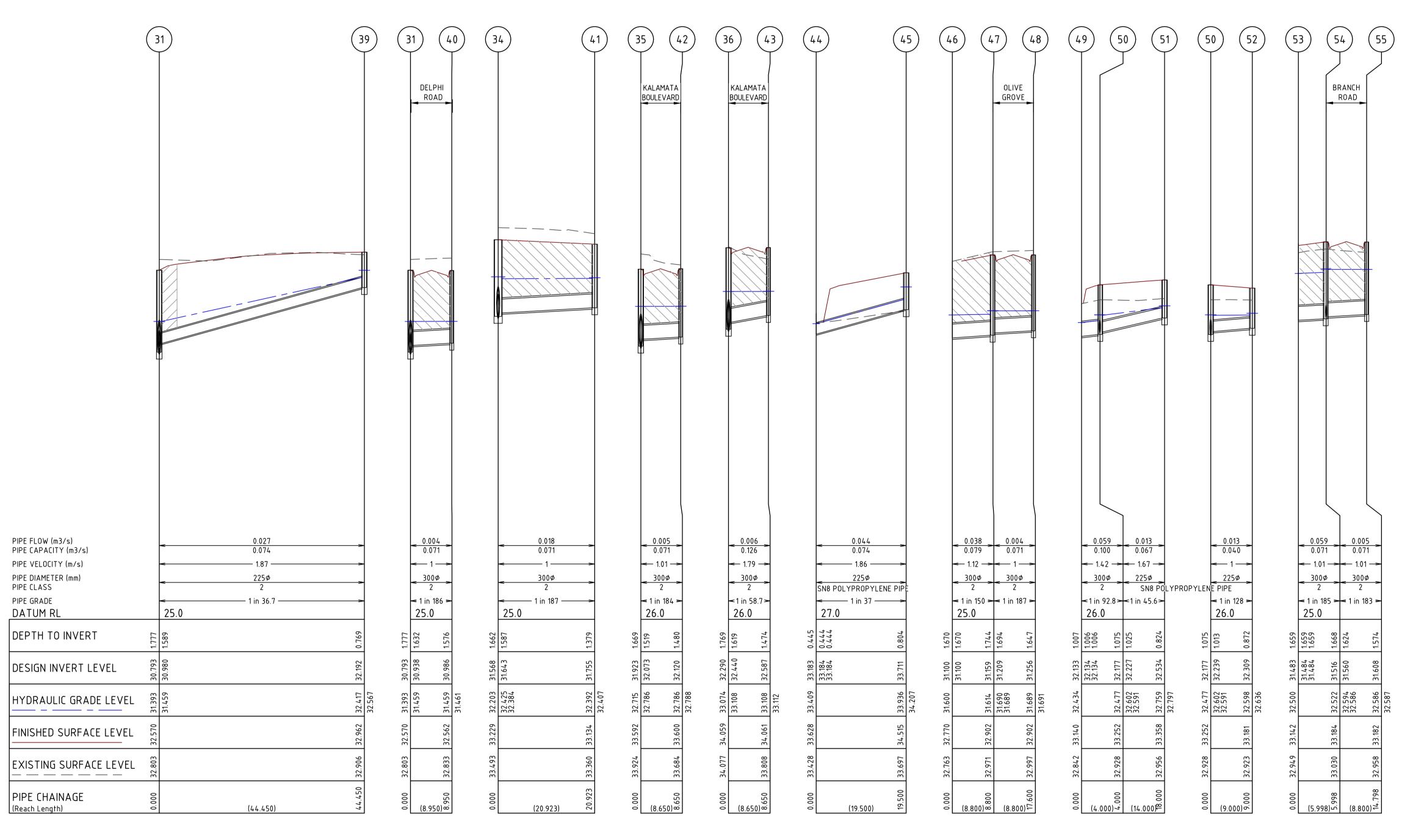


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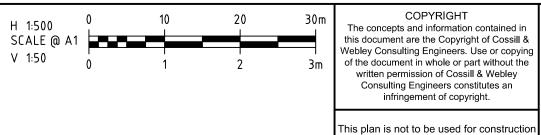


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| В | 20.01.25 | AT | MA | K. LORRIMAR | ISSUED FOR COUNCIL SUBMISSION | |
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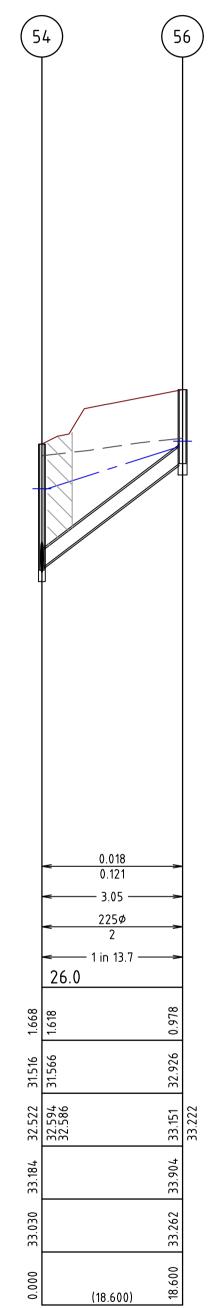


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DENOTES 20mm CLASS 3 FCR BACKFILL.

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



| 1 | KALA ESTATE - ST | TAGE 01 | | 1 | | | | | |
|---------------------|---|-------------------------|---------------|-----------------|--|--|--|--|--|
| | DRAINAGE LONGITUDINAL SECTIONS | | | | | | | | |
| NED . SANSOM | (SHEET 4 OF 4 MUNICIPALITY CARDINIA SHIRE CO | • | | RIGINAL SIZE | | | | | |
| : 1 1:500 V 1:50 | РР №. Т220227 | DRAWING No. 3086-01-403 | REVISION C | OF | | | | | |

| PIT NAME | TYPE | EASTING | NORTHING | INTERNAL WIDTH | INTERNAL LENGTH | INLET DIA | INLET IL | OUTLET DIA | OUTLET IL | PIT SETOUT RL | PIT DEPTH | REMARKS |
|-------------|-----------------------|------------|-------------|-------------------|--------------------|--------------|----------|---------------|-----------|------------------|--------------|--|
| 1 | ENDWALL | 372099.450 | 5785271.746 | | | 450 | 31.797 | | | 33.591 | 1.793 | |
| 2 | SIDE ENTRY PIT GRATED | 372127.255 | 5785267.504 | 900 | 900 | 450 | 31.988 | 450 | 31.938 | 33.872 | 1.934 | HAUNCHED PIT (HAUNCHED TOWARDS ROAD) |
| 3 | SIDE ENTRY PIT GRATED | 372138.415 | 5785274.197 | 900 | 900 | 450 | 32.082 | 450 | 32.032 | 34.202 | 2.171 | HAUNCHED PIT (HAUNCHED TOWARDS ROAD) |
| 4 | SIDE ENTRY PIT GRATED | 372146.818 | 5785272.915 | 900 | 900 | 450 | 32.161 | 450 | 32.111 | 34.179 | 2.068 | HAUNCHED PIT (HAUNCHED TOWARDS |
| | | | | | | 300 | 32.161 | | | | | ROAD) |
| 5 | SIDE ENTRY PIT GRATED | 372153.771 | 5785263.458 | 900 | 900 | 450 | 32.251 | 450 | 32.201 | 34.077 | 1.877 | HAUNCHED PIT (HAUNCHED TOWARD ROAD) |
| 6 | SIDE ENTRY PIT GRATED | 372182.080 | 5785259.138 | 900 | 900 | 375 | 32.396 | 450 | 32.346 | 34.221 | 1.874 | HAUNCHED PIT (HAUNCHED TOWARD ROAD) |
| | | | | | | 300 | 32.396 | | | | | |
| 7 | SIDE ENTRY PIT GRATED | 372267.455 | 5785246.263 | 600 | 900 | 375 | 32.878 | 375 | 32.828 | 34.662 | 1.834 | |
| | | | | | | 300 | 32.878 | | | | | |
| 8 | SIDE ENTRY PIT GRATED | 372319.206 | 5785238.367 | 600 | 900 | 300 | 33.451 | 375 | 33.401 | 35.028 | 1.627 | |
| 9 | SIDE ENTRY PIT GRATED | 372328.948 | 5785245.529 | 600 | 900 | 300 | 33.749 | 300 | 33.699 | 35.53 | 1.831 | |
| 10 | SIDE ENTRY PIT GRATED | 372337.648 | 5785244.202 | 600 | 900 | 300 | 33.975 | 300 | 33.925 | 35.529 | 1.604 | |
| | | | | | | 300 | 33.975 | | | | | |
| 11 | JUNCTION PIT | 372341.033 | 5785266.394 | 600 | 900 | | | 300 | 34.723 | 36.194 | 1.471 | CONSTRUCT V NOTCH ON NORTH WA |
| 12 | GRATED PIT | 372338.609 | 5785229.135 | 600 | 900 | | | 300 | 34.057 | 35.449 | 1.392 | CONSTRUCT GRATED PIT BIKE SAFE HEAVY DUTY & V-SHAPED GRATE. |
| 13 | SIDE ENTRY PIT GRATED | 372266.123 | 5785237.565 | 600 | 900 | | | 300 | 33.089 | 34.660 | 1.571 | |
| 14 | SIDE ENTRY PIT GRATED | 372182.446 | 5785250.332 | 600 | 900 | | | 300 | 32.648 | 34.237 | 1.589 | |
| 15 | JUNCTION PIT | 372150.413 | 5785295.480 | 600 | 900 | | | 300 | 32.542 | 34.293 | 1.752 | CONSTRUCT V NOTCH ON NORTH WA |
| 16 | ENDWALL | 372103.646 | 5785198.273 | | | 600 | 30.968 | | | 32.775 | 1.807 | |
| 17 | SIDE ENTRY PIT GRATED | 372117.262 | 5785196.043 | 900 | 900 | 525 | 31.064 | 600 | 31.014 | 32.834 | 1.821 | HAUNCHED PIT (HAUNCHED TOWARD ROAD) |
| 18 | SIDE ENTRY PIT GRATED | 372148.066 | 5785191.419 | 1050 | 900 | 525 | 31.255 | 525 | 31.205 | 32.995 | 1.790 | HAUNCHED PIT (HAUNCHED TOWARD ROAD) |
| | | | | | | 300 | 31.318 | | | | | |
| 19 | SIDE ENTRY PIT GRATED | 372157.609 | 5785198.435 | 1050 | 900 | 525 | 31.360 | 525 | 31.310 | 33.254 | 1.944 | HAUNCHED PIT (HAUNCHED TOWARD ROAD) |
| 20 | SIDE ENTRY PIT GRATED | 372165.938 | 5785197.164 | 900 | 900 | 450 | 31.448 | 525 | 31.398 | 33.259 | 1.861 | HAUNCHED PIT (HAUNCHED TOWARD ROAD) |
| 21 | SIDE ENTRY PIT GRATED | 372169.626 | 5785221.334 | 900 | 900 | 450 | 31.743 | 450 | 31.693 | 33.628 | 1.935 | HAUNCHED PIT (HAUNCHED TOWARD ROAD) |
| | | | | | | 300 | 32.007 | | | | | |
| 22 | JUNCTION PIT | 372256.866 | 5785208.023 | 600 | 900 | 450 | 32.772 | 450 | 32.722 | 34.477 | 1.755 | |
| 23 | JUNCTION PIT | 372303.822 | 5785200.858 | 600 | 900 | 375 | 33.188 | 450 | 33.138 | 34.715 | 1.578 | |
| 24 | JUNCTION PIT | 372366.591 | 5785191.277 | 600 | 900 | 375 | 35.188 | 375 | 35.138 | 36.442 | 1.304 | |
| | | | | | | 225 | 35.213 | | | | | |
| 25 | JUNCTION PIT | 372374.741 | 5785244.662 | 600 | 900 | 300 | 36.556 | 375 | 36.506 | 38.373 | 1.868 | |
| 25A | END PIPE | 372377.758 | 5785264.426 | | | | | 300 | 37.000 | 37.926 | 0.926 | BLOCK END OF PIPE WITH MARINI GRADE PLYWOOD FOR FUTURE EXTENTION |
| 26 | SIDE ENTRY PIT GRATED | 372149.987 | 5785182.456 | 600 | 900 | | | 300 | 31.445 | 33.025 | 1.580 | |
| 27 | SIDE ENTRY PIT GRATED | 372161.074 | 5785222.639 | 600 | 900 | 225 | 32.104 | 300 | 32.054 | 33.638 | 1.584 | |
| 28 | JUNCTION PIT | 372133.790 | 5785226.802 | 600 | 900 | | | 225 | 32.788 | 33.689 | 0.901 | |
| 29 | JUNCTION PIT | 372365.087 | 5785181.394 | 600 | 900 | | | 225 | 35.432 | 36.172 | 0.740 | |
| 30 | ENDWALL | 372179.261 | 5785139.954 | | | 600 | 30.656 | | | 32.468 | 1.812 | |

| С | 09.05.25 | MA | Alaster | Hor | RE-ISSUED FOR COUNCIL APPROVAL | |
|-----|----------|-----|---------|-------------|--------------------------------|--|
| В | 20.01.25 | AT | MA | K. LORRIMAR | ISSUED FOR COUNCIL SUBMISSION | |
| Α | 13.11.24 | NT | MA | K. LORRIMAR | INITIAL ISSUE | |
| | | | | | | |
| | | | | | | |
| REV | DATE | DRN | СКД | APP | AMENDMENT | |
| | | | | | | |

| PIT NAME | ТҮРЕ | EASTING | NORTHING | INTERNAL WIDTH | INTERNAL LENGTH | INLET DIA | INLET IL | OUTLET DIA | OUTLET IL | PIT SETOUT RL | PIT DEPTH | REMARKS |
|-------------|-----------------------|------------|-------------|-------------------|--------------------|--------------|----------|---------------|-----------|------------------|--------------|--|
| 31 | SIDE ENTRY PIT GRATED | 372180.316 | 5785146.870 | 900 | 900 | 600 | 30.843 | 600 | 30.793 | 32.570 | 1.777 | HAUNCHED PIT |
| | | | | | | 225 | 30.980 | | | | | |
| | | | | | | 300 | 30.938 | | | | | |
| 32 | JUNCTION PIT | 372184.146 | 5785168.995 | 1800 | 900 | (2x)450 | 31.450 | 600 | 31.375 | 32.999 | 1.624 | HAUNCHED PIT |
| 33 | SIDE ENTRY PIT GRATED | 372192.395 | 5785175.982 | 600 | 1800 | (2x)450 | 31.516 | (2x)450 | 31.516 | 33.239 | 1.723 | HAUNCHED PIT |
| 34 | SIDE ENTRY PIT GRATED | 372193.575 | 5785184.551 | 900 | 1500 | 600 | 31.568 | (2x)450 | 31.568 | 33.229 | 1.662 | HAUNCHED PIT |
| | | | | | | 300 | 31.643 | | | | | |
| 35 | SIDE ENTRY PIT GRATED | 372265.321 | 5785173.604 | 900 | 900 | 600 | 31.976 | 600 | 31.923 | 33.592 | 1.669 | HAUNCHED PIT (HAUNCHED TOWARD ROAD) |
| | | | | | | 300 | 32.073 | | | | | |
| 36 | SIDE ENTRY PIT GRATED | 372333.512 | 5785163.199 | 900 | 900 | 450 | 32.365 | 600 | 32.290 | 34.059 | 1.769 | HAUNCHED PIT (HAUNCHED TOWARD ROAD) |
| | | | | | | 300 | 32.440 | | | | | |
| 37 | SIDE ENTRY PIT GRATED | 372390.734 | 5785154.468 | 900 | 900 | 300 | 33.809 | 450 | 33.759 | 35.466 | 1.707 | HAUNCHED PIT (HAUNCHED TOWARD ROAD) |
| 38 | SIDE ENTRY PIT GRATED | 372389.429 | 5785145.917 | 600 | 900 | | | 300 | 33.896 | 35.473 | 1.577 | |
| 39 | JUNCTION PIT | 372224.257 | 5785140.165 | 600 | 900 | | | 225 | 32.192 | 32.962 | 0.769 | |
| 40 | SIDE ENTRY PIT GRATED | 372171.468 | 5785148.220 | 600 | 900 | | | 300 | 30.986 | 32.562 | 1.576 | |
| 41 | SIDE ENTRY PIT GRATED | 372172.915 | 5785187.854 | 600 | 900 | | | 300 | 31.755 | 33.134 | 1.379 | |
| 42 | SIDE ENTRY PIT GRATED | 372264.016 | 5785165.053 | 600 | 900 | | | 300 | 32.120 | 33.600 | 1.480 | |
| 43 | SIDE ENTRY PIT GRATED | 372332.227 | 5785154.645 | 600 | 900 | | | 300 | 32.587 | 34.061 | 1.474 | |
| 44 | ENDWALL | 372354.227 | 5785110.218 | | | 225 | 33.184 | | | 33.628 | 0.444 | |
| 45 | JUNCTION PIT | 372357.169 | 5785129.495 | 600 | 900 | | | 225 | 33.711 | 34.515 | 0.804 | |
| 46 | ENDWALL | 372250.288 | 5785129.112 | | | 300 | 31.100 | | | 32.770 | 1.670 | |
| 47 | SIDE ENTRY PIT GRATED | 372251.615 | 5785137.812 | 600 | 900 | 300 | 31.209 | 300 | 31.159 | 32.902 | 1.744 | |
| 48 | SIDE ENTRY PIT GRATED | 372242.916 | 5785139.139 | 600 | 900 | | | 300 | 31.256 | 32.902 | 1.647 | |
| 49 | ENDWALL | 372278.025 | 5785127.915 | | | 300 | 32.134 | | | 33.140 | 1.006 | |
| 50 | JUNCTION PIT | 372278.628 | 5785131.869 | 600 | 900 | 225 | 32.227 | 300 | 32.177 | 33.252 | 1.075 | |
| | | | | | | 225 | 32.239 | | | | | |
| 51 | JUNCTION PIT | 372292.468 | 5785129.757 | 600 | 900 | | | 225 | 32.534 | 33.358 | 0.824 | |
| 52 | JUNCTION PIT | 372269.731 | 5785133.227 | 600 | 900 | | | 225 | 32.309 | 33.181 | 0.872 | |
| 53 | ENDWALL | 372318.046 | 5785115.741 | | | 300 | 31.484 | | | 33.142 | 1.659 | |
| 54 | SIDE ENTRY PIT GRATED | 372318.951 | 5785121.670 | 600 | 900 | 300 | 31.560 | 300 | 31.516 | 33.184 | 1.668 | |
| | | | | | | 225 | 31.566 | | | | | |
| 55 | SIDE ENTRY PIT GRATED | 372310.252 | 5785122.998 | 600 | 900 | | | 300 | 31.608 | 33.182 | 1.574 | |

1. ALL PITS ARE TO BE TO VPA STANDARDS UNLESS NOTED OTHERWISE.

2. PITS DEEPER THAN 1.00m SHALL BE FITTED WITH STEPIRONS, FIRST STEPIRON TO BE 300mm FROM THE BOTTOM OF THE PIT.

3. COVER LEVELS TO BE SET TO MATCH THE FINISHED SURFACE PROFILES AND ADJACENT CONSTRUCTION.

4. UNLESS OTHERWISE SPECIFIED, PIT TYPES REFER TO VICTORIAN PLANNING AUTHORITY STANDARD DRAWINGS

FIGURE EDCM 601 SIDE ENTRY PIT GRATED B2 KERB AND CHANNEL

FIGURE EDCM 602 DOUBLE SIDE ENTRY PIT GRATED B2 KERB AND CHANNEL

• FIGURE EDCM 603 SIDE ENTRY PIT GRATED SM2 KERB AND CHANNEL

FIGURE EDCM 605 JUNCTION PIT

5. FOR HAUNCHED PITS REFER VPA STANDARD DRAWING FIGURE EDCM 607 & EDCM 608. PITS TO BE HAUNCHED TO COUNCIL STANDARD OPENINGS. 6. STUBS AND PIPE ENDS TO BE BLOCKED OFF TO COUNCIL'S SATISFACTION.

7. ALL GRATED PITS TO HAVE BICYCLE SAFE LOCKDOWN GRATES.

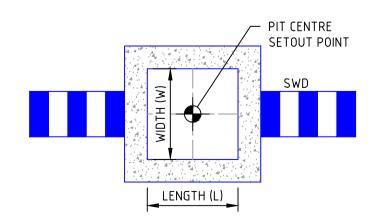
8. ALL GRATED SIDE-ENTRY PITS TO HAVE MIN 100mm THICK CONCRETE APRON BETWEEN GRATE AND ASPHALT. REFER VPA STANDARD DRAWINGS. 9. PIT LIDS TO BE IN ACCORDANCE WITH VPA STANDARD DRAWING EDCM 605.

10. PITS WITHIN ROAD PAVEMENT, VEHICLE CROSSINGS OR WITHIN 0.75m OF A VEHICLE CROSSING, TO HAVE CLASS D CAST IRON LOCK DOWN LIDS.

11. ALL PITS WITHIN ROAD TO BE CONSTRUCTED WITH 32 MPa CONCRETE WITH SL92 MESH IN WALLS AND BASE.

12. CONTRACTOR TO VERIFY EXISTING SERVICES CONNECTION LEVELS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES MUST BE IMMEDIATELY IDENTIFIED AND THE SUPERINTENDENT NOTIFIED PRIOR TO CONSTRUCTION COMMENCING.

13. REFER TO RELEVANT AUTHORITY STANDARDS FOR PIT INTERFACE WITH KERB & CHANNEL.



TYPICAL DRAINAGE PIT SETOUT DETAIL

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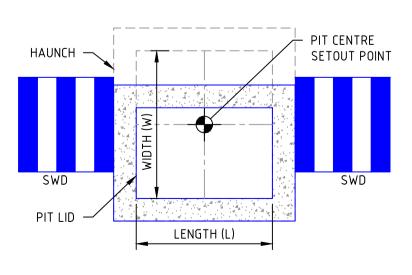


DESIGN SCALE KLorm

W.

This plan is not to be used for constructio unless issued as revision 0 or higher

Melbourne VIC 3004 T (03) 8548 1560 E Melbourne.Reception@cosweb.com.au



TYPICAL HAUNCH PIT SETOUT DETAIL

| l | PROJECT KALA ESTATE - STAGE 01 | | | | | | | | | |
|-----------------|-------------------------------------|------------------------------------|---------------|-------------|--|--|--|--|--|--|
| | TITLE DRAINAGE PIT SCHEDULE | | | | | | | | | |
| NED . SANSOM | MUNICIPALITY CARDINIA SHIRE COUNCIL | | | | | | | | | |
| AS SHOWN | ^{рр №.} Т220227 | ^{DRAWING No.} 3086-01-420 | REVISION C | ORIG SIZ | | | | | | |
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