

PROJECT NAME:

CAMPBELL 38 MASTERPLAN

JOB NUMBER:

180658

DISCIPLINE

CIVIL

PROJECT LOCATION:

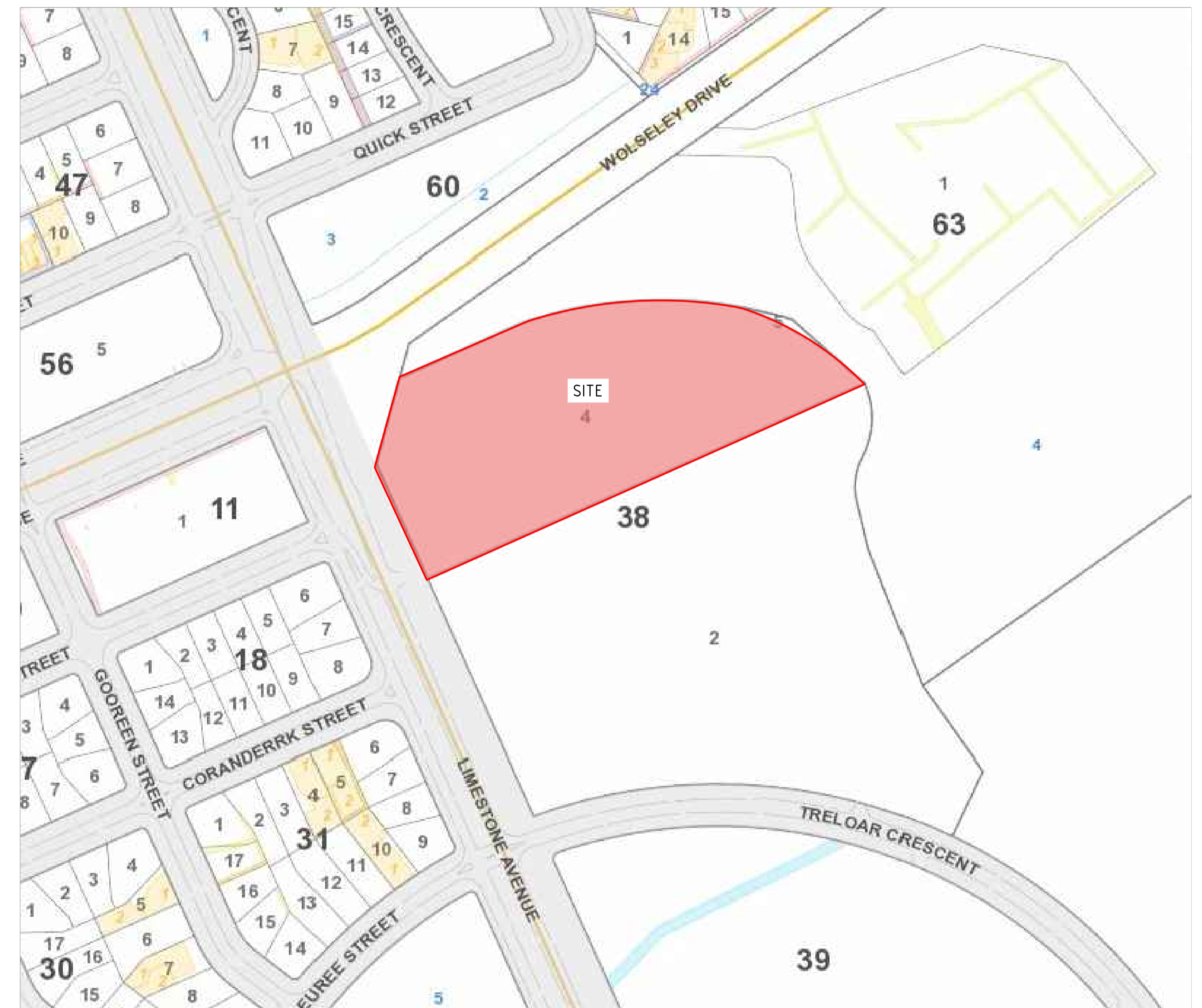
BLOCK 4 & 5 SECTION 38 CAMPBELL, ACT

SUBMISSION TYPE:

DESIGN ACCEPTANCE

CLIENT:

DOMA



LOCALITY PLAN

GOOGLE MAPS. COPY RIGHT 2017



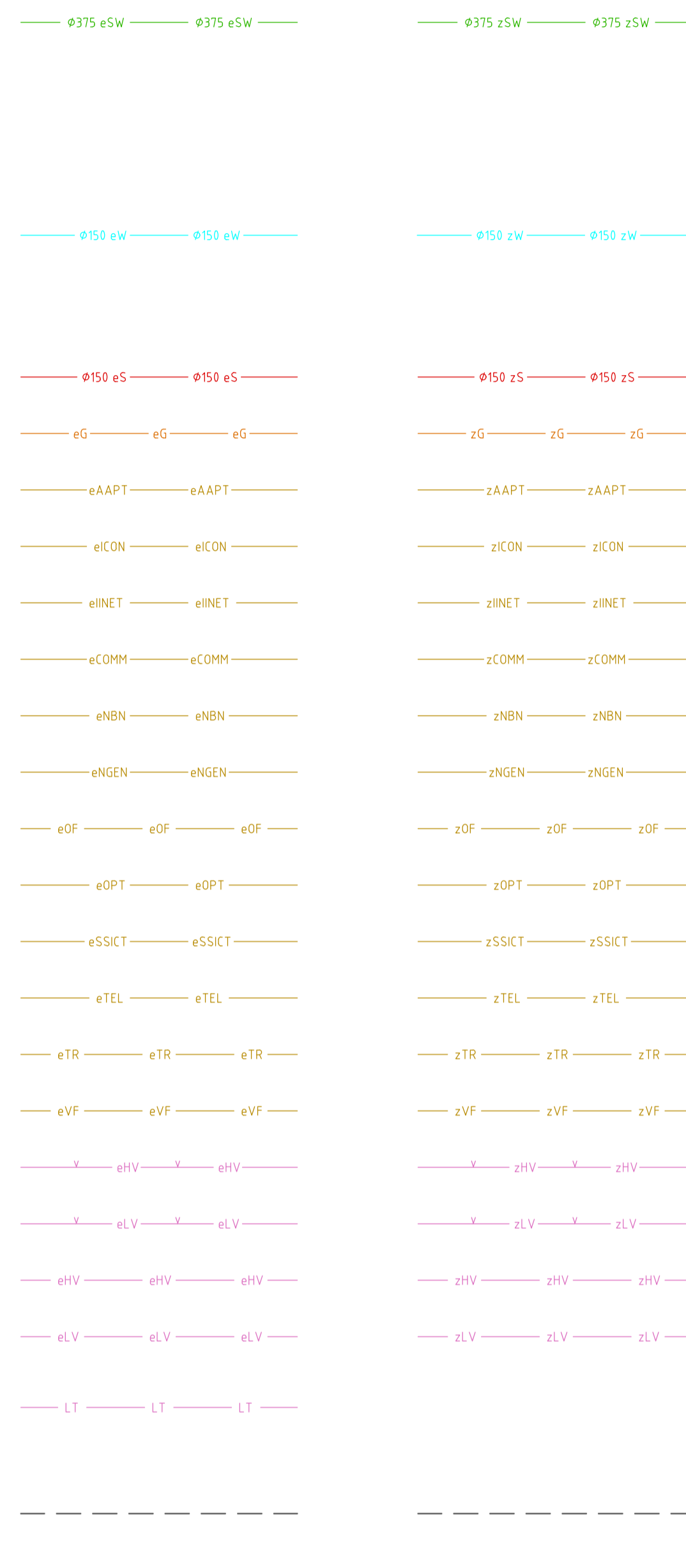
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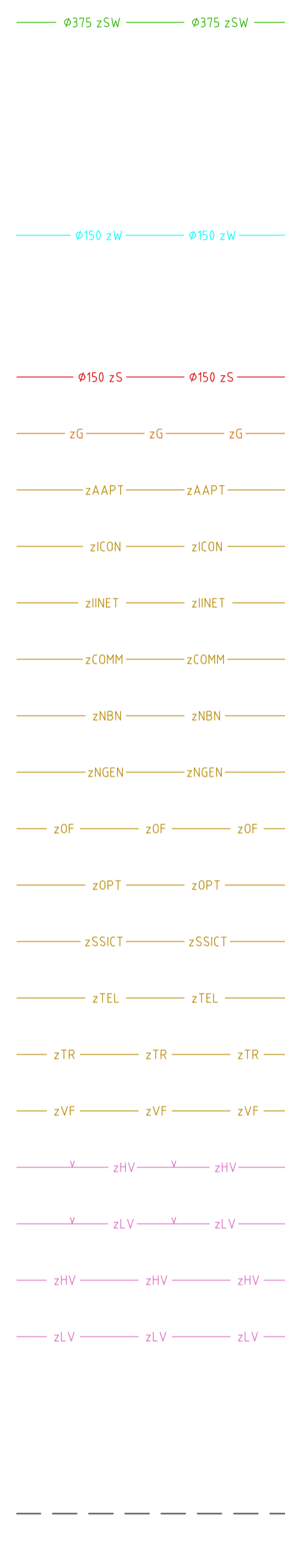
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|--------------------------------|--|--|--|----------------------|--|------|--|------------------------------|--|----------------|--|----------------|--|
| | | | | Status | | | | Project Name and Location | | | | | |
| | | | | NOT FOR CONSTRUCTION | | | | RESIDENTIAL DEVELOPMENT | | | | | |
| | | | | Original Size | | | | BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| D FOR INFORMATION | | | | 20.12.2019 | | AM | | A1 | | Drawn By | | RT | |
| C REVISED FOR NCA CONCEPT PLAN | | | | 21.05.2019 | | BC | | 20-Dec-19 | | Designed By | | LT | |
| B NCA CONCEPT PLAN | | | | 22.01.2019 | | BC | | STROMLO GRID | | Approved | | BC | |
| A NCA CONCEPT PLAN | | | | 24.08.2018 | | BC | | Date Plotted | | Approved Date | | 24.08.2018 | |
| Rev | | | | Description | | Date | | Approved | | Height Datum | | AHD | |
| | | | | | | | | Approved Signature | | Project Number | | 180658 | |
| | | | | | | | | Type | | Discipline | | Sub-Discipline | |
| | | | | | | | | DRG | | CIV | | GN | |
| | | | | | | | | Drg No. | | Rev | | 0001 D | |

UTILITIES LEGEND

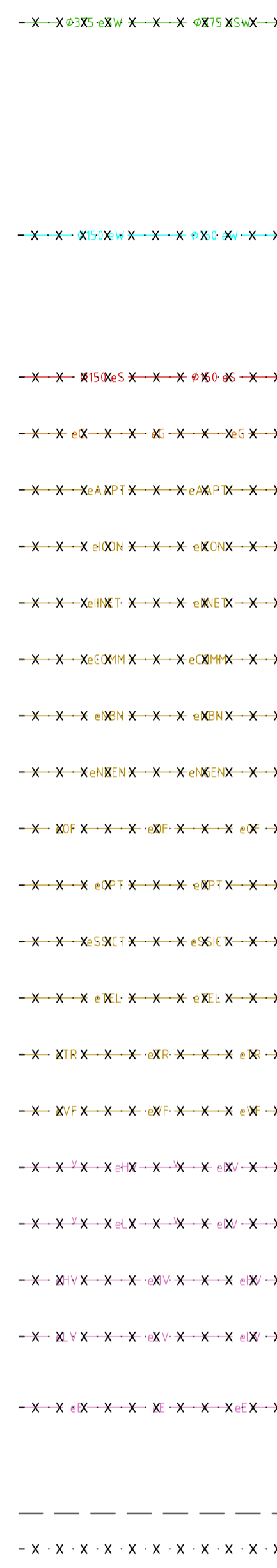
EXISTING UTILITIES COMPILED THROUGH THE DIAL BEFORE YOU DIG SERVICE



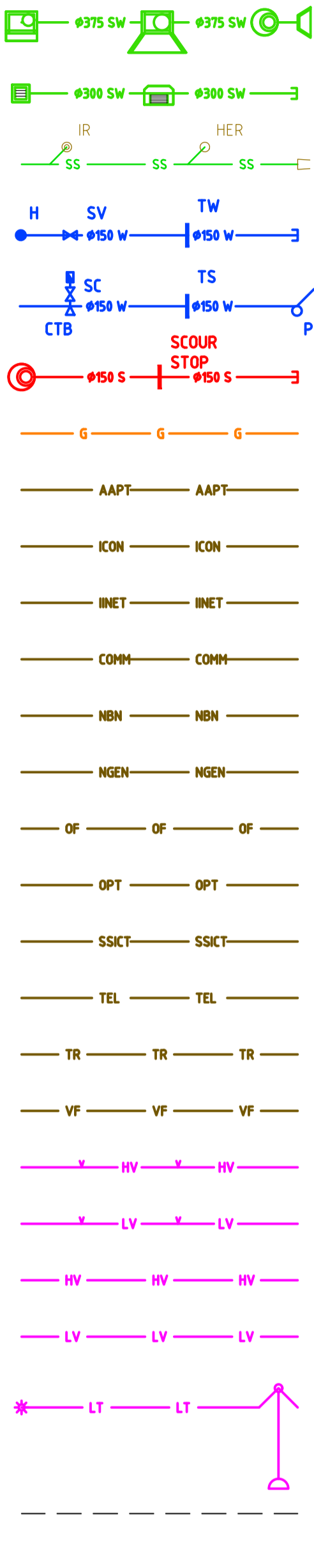
EXISTING UTILITIES SURVEYED ON SITE



EXISTING UTILITIES TO BE EXHUMED OR ABANDONED



NEW UTILITIES

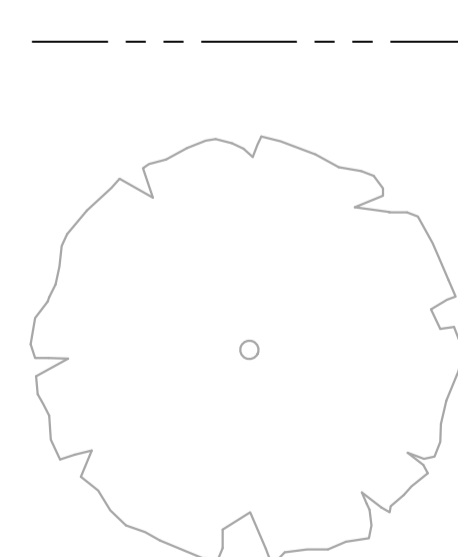


375 STORMWATER LINE WITH R-SUMP, PLANTATION SUMP, MANHOLE AND HEADWALL
 300 STORMWATER LINE WITH, GRATED SUMP, KISS SUMP AND PIPE END CAP
 SUBSOIL LINE WITH HIGH END RISER INTERMEDIATE RISER AND HEAD WALL
 150 WATER MAIN WITH HYDRANT, STOP VALVE, THRUST WALL AND PIPE END CAP
 150 WATER MAIN WITH WATER METER, TIE AND STOP COCK, CONCRETE THRUST BLOCK, TRENCH STOP AND CONCRETE THRUST PIER
 150 SEWER MAIN WITH MANHOLE, SCOUR STOP AND PIPE END CAP
 GAS MAIN
 AAPT CONDUIT
 ICON CONDUIT
 IINET CONDUIT
 MISCELLANEOUS COMMUNICATIONS CONDUIT
 NBN CONDUIT
 NEXTGEN CONDUIT
 OPTIC FIBRE CONDUIT
 OPTUS CONDUIT
 SSICT CONDUIT
 TELSTRA CONDUIT
 TRANSACT CONDUIT
 VODAFONE CONDUIT
 ELECTRICITY ABOVE GROUND - HIGH VOLTAGE
 ELECTRICITY ABOVE GROUND - LOW VOLTAGE
 ELECTRICITY BELOW GROUND - HIGH VOLTAGE
 ELECTRICITY BELOW GROUND - LOW VOLTAGE
 STREET LIGHT CONDUIT WITH PEDESTRIAN STREET LIGHT AND SINGLE REACH STREET COLUMN
 UTILITY EASEMENT

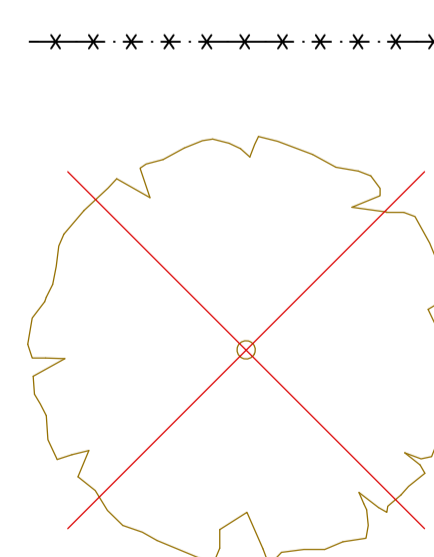
UTILITIES MAY BE SHOWN AS FINE BLACK FOR PROPOSED AND GREY FOR EXISTING

GENERAL LEGEND

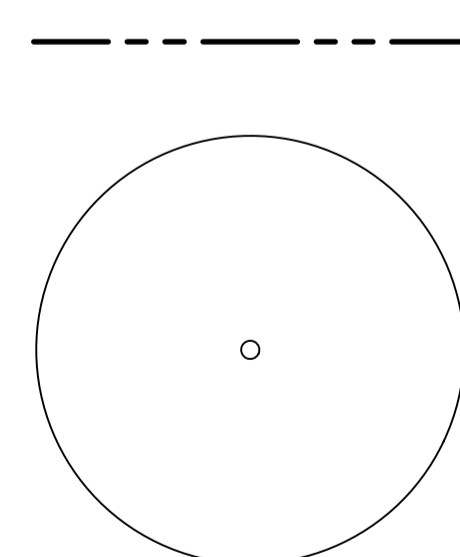
EXISTING



EXISTING TO BE REMOVED



NEW



BLOCK BOUNDARY

TREE

NOTATION

- AL ALIGNMENT
- BK BARRIER KERB
- CH CHAINAGE
- CK CASTELLATED KERB
- CL COVER LEVEL
- CTB CONCRETE THRUST BLOCK
- CT CONCRETE THRUST PIER
- DP DOWN PIPE
- FSL FINISHED SURFACE LEVEL
- FK FLUSH KERB
- H HYDRANT
- HER HIGH END RISER
- HW HEAD WALL
- IL INVERT LEVEL
- IP INTERSECTION POINT
- IR INTERMEDIATE RISER
- K4A KERB
- KR KERB RETURN
- KG KERB AND GUTTER
- KO KERB ONLY
- MH MANHOLE
- MK MOUNTABLE KERB
- MKG MOUNTABLE KERB AND GUTTER
- MS MOWING STRIP
- OCI OPEN CONCRETE INVERT
- PC PRAM CROSSING
- PTB PIER THRUST BLOCK
- PR PRAM RAMP
- RL REDUCED LEVEL
- ROCI REINFORCED OPEN CONCRETE INVERT
- RVC REINFORCED VEHICLE CROSSING
- SC STOP COCK
- SS SUBSOIL
- SV STOP VALVE
- TP TANGENT POINT
- TS TRENCH STOP
- TW THRUST WALL
- VC VEHICULAR CROSSING

GENERAL NOTES

1. THE CONTRACTOR MUST COMPLY WITH CURRENT WORK AND HEALTH AND SAFETY LEGISLATION, REGULATIONS AND THE CODES OF PRACTICE.
2. THE CONTRACTOR MUST SECURE ALL PERMITS, ARRANGE ALL CLEARANCES AND PAY ALL FEES REQUIRED TO COMPLETE THE PROJECT BEFORE COMMENCING WORK OR PRIOR TO THEM CAUSING DELAY TO THE PROJECT.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION WORKS BEING CARRIED OUT IN ACCORDANCE WITH CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS WITHIN THE SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES SHALL BE REFERRED TO THE DESIGN CONSULTANT A MINIMUM 7 DAYS PRIOR TO COMMENCEMENT OF ASSOCIATED WORKS.
5. THE CONTRACTOR SHALL ENSURE DISTURBED SURFACES OUTSIDE THE GENERAL LIMIT OF WORK IS REINSTATED AT THE CONTRACTORS EXPENSE, TO THE SUPERINTENDENTS SATISFACTION, THESE SURFACES INCLUDE BUT ARE NOT LIMITED TO ROAD PAVEMENTS, KERBS, VERGE PAVING OR GRASSING, PEDESTRIAN FOOTPATHS AND DRIVEWAYS.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAKING SMOOTH CONNECTION TO EXISTING.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EARTHWORKS IN A STABLE CONDITION DURING CONSTRUCTION. TEMPORARY SHORING AND BATTERING MUST BE IN ACCORDANCE WITH AS3798
8. THE CONTRACTOR SHALL MAKE PROVISIONS FOR BOTH VEHICULAR AND PEDESTRIAN TRAFFIC AND SITE VISITORS. THE CONTRACTOR MUST ENSURE SAFE ACCESS FOR NON CONSTRUCTION PEOPLE.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY TEMPORARY TRAFFIC MANAGEMENT PLANS APPROVED IN ACCORDANCE WITH AS1742.3 AND RELEVANT AUTHORITY REQUIREMENTS.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY POLLUTION CONTROL PLANS AND THEIR APPROVAL.
11. THE CONTRACTOR SHALL ENSURE ALL MATERIALS AND WORKMANSHIP IS IN ACCORDANCE WITH RELEVANT CURRENT CODES, STANDARDS, CONTRACT REQUIREMENTS AND AUTHORITY REQUIREMENTS.
12. THE CONTRACTOR SHALL LIAISE WITH ALL ADJACENT CONTRACTS TO ENSURE ALL ALIGNMENTS AND LEVELS OF NEW OR RELOCATED UTILITIES ARE COMPATIBLE.
13. THE INFORMATION PROVIDED IN THESE DRAWINGS PREPARED BY SELICK CONSULTANTS IS SOLELY FOR THE USE OF THE RECIPIENT. SELICK CONSULTANTS HAS NO DUTY OF CARE OR ACCEPTS ANY RESPONSIBILITY FOR A THIRD PARTY WHO MAY RELY UPON THESE DOCUMENTS FOR ANY PURPOSE.
14. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER ENGINEERING/ ARCHITECTURAL DRAWINGS AND SPECIFICATIONS OR OTHER WRITTEN INSTRUCTION THAT MAY BE ISSUED DURING THE TIME OF THE CONTRACT.
15. BLOCK BOUNDARIES SHOWN ON THESE DRAWINGS ARE IN ACCORDANCE WITH SUPPLIED DIGITAL DATA OR SURVEYED.
16. DO NOT SCALE THESE DRAWINGS.
17. ALL DIMENSIONS ARE IN MILLIMETERS OR METERS.
18. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
19. ORIGIN OF SURVEYED AND DESIGN COORDINATES - NOTED CO-ORDINATE SYSTEM

UTILITIES NOTES

1. THE UTILITIES INDICATED ON THESE DRAWINGS WERE COMPILED FROM DIGITAL PLANS ISSUED BY UTILITY AUTHORITIES VIA THE DIAL BEFORE YOU DIG SERVICE. THE INFORMATION PROVIDED WAS PREPARED SOLELY FOR THE USE OF THE AUTHORITY AND IS NOT NECESSARILY ACCURATE.
2. BEFORE COMMENCING WORK THE CONTRACTOR SHALL CONTACT THE RELEVANT UTILITY AUTHORITIES AND VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES ON SITE AND OBTAIN NECESSARY CLEARANCES FOR POTHOLING AND CONSTRUCTION. DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE PHYSICAL ONSITE CONDITIONS MUST BE REPORTED BACK TO THE DESIGN CONSULTANT MINIMUM 7 DAYS PRIOR TO COMMENCEMENT OF WORKS.
3. BEFORE COMMENCING EXCAVATION THE CONTRACTOR SHALL EXPOSE ALL CROSSINGS AND CONNECTIONS POINTS ON EXISTING UNDERGROUND UTILITIES. THE LEVELS OF CONNECTION POINTS AND LEVELS OF EACH CROSSING SHALL BE SURVEYED AND ANY VARIATIONS OF THE LEVELS GIVEN OR ANY DIFFICULTIES IN BEING ABLE TO ACHIEVE THE REQUIRED GRADES OF NEW PIPELINES SHALL BE REPORTED TO THE SUPERINTENDENT.
4. BEFORE COMMENCING WORK THE CONTRACTOR SHALL ARRANGE THE RELOCATION OR ADJUSTMENT OF A UTILITY SERVICE TO THE APPROVAL OF THE RELEVANT UTILITY AUTHORITY.
5. BEFORE COMMENCING WORK THE CONTRACTOR SHALL LOCATE AND MARK ALL UTILITIES WITHIN THE EXTENT OF WORKS.
6. IF AN UNDERGROUND SERVICE IS DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT AND THE RELEVANT UTILITY AUTHORITY IMMEDIATELY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT NO EXTRA COST TO THE PRINCIPLE.

ICON WATER NOTES

1. ALL WORK ON ICON WATER WATER SUPPLY AND SEWER MAINS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT STANDARDS:
 - WSA-02 'GRAVITY SEWERAGE CODE OF AUSTRALIA'
 - STD-SPE-G-011 'ICON WATER SUPPLEMENT TO WSA-02'
 - WSA-03 'WATER SUPPLY CODE OF AUSTRALIA'
 - STD-SPE-G-012 'ICON WATER SUPPLEMENT TO WSA-03'
 - STD-SPE-M-006 'REQUIREMENTS FOR PROPERTY SERVICE CONNECTIONS'
2. CONNECTIONS AND OR DISCONNECTIONS OF SEWER AND WATER AT THE MAIN TO BE MADE BY ICON WATER AT CONTRACTOR'S EXPENSE. THE CONTRACTOR IS TO EXPOSE THE MAIN AT THE LOCATION OF THE CONNECTION/DISCONNECTION IN PREPARATION FOR THE WORK BY ICON WATER. ALL EXCAVATION IN THE VICINITY OF MAINS IS TO BE CARRIED OUT BY HAND.
3. THE CONTRACTOR MUST VISIT THE SITE OF WORKS BEFORE TENDERING AND MAKE ALLOWANCES IN HIS TENDER FOR ALL TOPOGRAPHIC CONSTRAINTS AFFECTING THE EXECUTION OF THE WORKS AND THE RESTORATION OF THE SITE.
4. ALTHOUGH THE POSITIONS OF EXISTING UNDERGROUND SERVICES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS, THE CONTRACTOR SHALL CONFIRM THE DEPTH AND LOCATION OF ALL SERVICES ON SITE BEFORE COMMENCING EXCAVATIONS. CONTRACTOR TO ADVISE DESIGN ENGINEER IF NOT IN ACCORDANCE WITH THE PLAN.
5. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD). ALL COORDINATES ARE BASED ON NOTED CO-ORDINATE SYSTEM.
6. THE CONTRACTOR MUST SECURE ALL PERMITS, ARRANGE ALL CLEARANCES AND PAY ALL FEES REQUIRED TO COMPLETE THE PROJECT BEFORE COMMENCING WORK.
7. WORK AS EXECUTED DRAWINGS, TIE BOOK AND DEPOSITED PLAN MUST BE SUBMITTED BEFORE CONNECTION.
8. ANY NON-METALLIC WATER SERVICE IS TO BE INSTALLED WITH TRACER WIRE AND TESTED.
9. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED SPOIL AREA.
10. THE CONTRACTOR SHALL REINSTATE ALL DISTURBED SURFACES TO MATCH EXISTING.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF ALL NECESSARY TEMPORARY TRAFFIC MANAGEMENT PLANS AND THEIR APPROVAL.
12. CONTRACTOR TO CONFIRM DEPTH OF SEWER AND STORMWATER TIE POINTS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ADVISE DESIGN ENGINEER IF NOT IN ACCORDANCE WITH PLAN.
13. ANY DEVIATION OF PIPE MATERIAL TO BE PROPOSED TO ENGINEER PRIOR TO INSTALLATION.

SEWER EXPLANATIONS

PIPE INFORMATION BOX

| | |
|---------|-----------------------------|
| 601.005 | UPSTREAM INVERT LEVEL |
| Ø150 | PIPE INTERNAL DIAMETER |
| uPVC | PIPE MATERIAL RCP,VC OR PVC |
| 13.5m | PIPE LENGTH |
| 7.62% | PIPE GRADE |
| 600.022 | DOWNSTREAM INVERT LEVEL |

SEWER STRUCTURE ID

(S2-1) SEWER LINE S2, SEWER STRUCTURE '1'

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-gn-0002.dwg

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| Scales | | | | North | | | | | | | | Client Logo | | | | Status NOT FOR CONSTRUCTION | | | | Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | | | | | | | |
| D | FOR INFORMATION | 20.12.2019 | AM | DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK. COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright. | | | | | | | | Original Size A1 Drawn By RT Drafting Check DCA | | | | Drawing Title GENERAL NOTES AND LEGEND | | | | | | | | | | | | | | | | | |
| C | REVISED FOR NCA CONCEPT PLAN | 21.05.2019 | BC | | | | | | | | | | | | | Date Plotted 20-Dec-19 Designed By LT Design Check AM | | | | Project Number 180658 | | | | | | | | | | | | | |
| B | NCA CONCEPT PLAN | 22.01.2019 | BC | | | | | | | | | | | | | | | | | Coordinate System STROMLO GRID Approved BC Approved Date 24.08.2018 | | | | Type DRG | | Discipline CIV | | Sub-Discipline GN | | Drg No. 0002 | | Rev D | |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC | | | | | | | | | | | | | | | | | | | | | Project Number 180658 | | Type DRG | | Discipline CIV | | Sub-Discipline GN | | Drg No. 0002 | |
| Rev | Description | Date | Approved | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 GN-0003 DRAWING INDEX
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 WM-2313 WASTE MANAGEMENT DETAILS SHEET 3
 WM-2314 WASTE MANAGEMENT DETAILS SHEET 4
 WM-2315 WASTE MANAGEMENT DETAILS SHEET 5
 WM-2316 WASTE MANAGEMENT DETAILS SHEET 6

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| | | Scales | | North | |  | |  | | Status NOT FOR CONSTRUCTION | | Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | | | | | | | | | |
| | | | | | | | | | | Original Size A1 | | Drawn By RT | | Drafting Check DCA | | Drawing Title DRAWING INDEX | | | | | | | | | | | |
| | | | | | | | | | | Date Plotted 20-Dec-19 | | Designed By LT | | Design Check AM | | | | | | | | | | | | | |
| | | | | | | | | | | Coordinate System STROMLO GRID | | Approved BC | | Approved Date 24.08.2018 | | | | | | | | | | | | | |
| | | | | | | | | | | Height Datum AHD | | Approved Signature | | | | Project Number 180658 | | Type DRG | | Discipline CIV | | Sub-Discipline GN | | Drg No. 0003 | | Rev A | |
| A FOR INFORMATION | | Description | | Date | | Approved | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

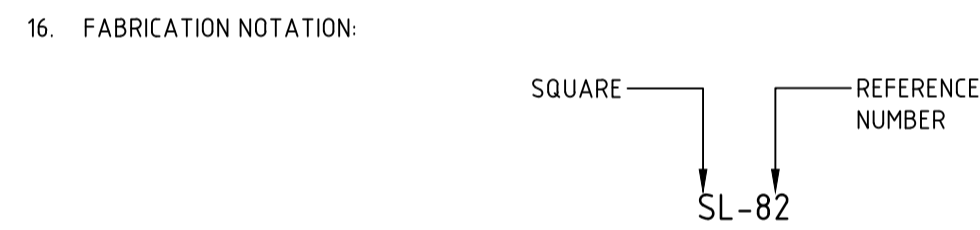
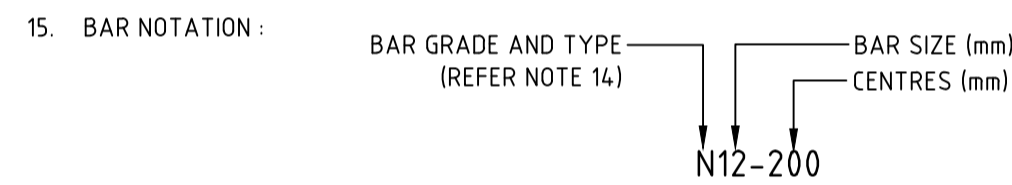
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CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 WITH AMENDMENTS AND OTHER RELEVANT AUSTRALIAN STANDARDS. EXCEPT WHERE VARIED BY CONTRACT DOCUMENTS.
- FORMWORK SHALL BE DESIGNED, ERECTED AND REMOVED IN ACCORDANCE WITH AS3610
- CONCRETE SHALL BE PLACED IN ACCORDANCE WITH AS3600
- CONCRETE STRENGTH SHALL ASSESSED IN ACCORDANCE WITH THE SPECIFICATION OR AS SPECIFIED.
- CONCRETE SHALL BE MECHANICALLY VIBRATED TO ENSURE MAXIMUM COMPACTION WITHOUT SEGREGATION OF CONCRETE.
- COVER TO REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE SPECIFICATION OR AS SPECIFIED.
- THE FINISHED CONCRETE SHALL BE FINISHED IN ACCORDANCE WITH THE CLASS OF FINISH OUTLINED IN THE SPECIFICATION.
- SIZE OF CONCRETE ELEMENTS DOES NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- PRIOR TO COMMENCEMENT OF CONCRETE POUR, THE CONTRACTOR SHALL SUBMIT A PROPOSED CONCRETE CURING METHODOLOGY TO THE ENGINEER FOR WRITTEN APPROVAL.
- CONCRETE TEMPERATURE WHEN PLACED SHALL NOT EXCEED 32°C OR BE LESS THAN 5°C.
- CONCRETE SHALL NOT BE PLACED IF THE AMBIENT TEMPERATURE IS BELOW 5°C OR IS ANTICIPATED TO FALL BELOW 5°C WITHIN 24 HOURS OF PLACEMENT, UNLESS APPROVED IN WRITING BY THE SUPERINTENDENT OR DESIGN ENGINEER.
- NO ADMIXTURES SHALL BE USED UNLESS APPROVED IN WRITING BY THE DESIGN ENGINEER.
- REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC DIPPED CHAIRS. CHAIRS SHALL NOT BE GREATER THAN 750mm CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATIVE INTERSECTIONS.
- REINFORCEMENT TYPE AND GRADE:

| REINFORCEMENT NOTATION TYPE | DESCRIPTION AND TYPE | CLASSIFICATION AND DESIGNATION TO AS4671 |
|-----------------------------|--|--|
| N | HOT ROLLED DEFORMED BAR, MICROALLOY TEMPCORE | D500N |
| R | HOT ROLLED PLAIN ROUND BAR, MILD STEEL | R250N |
| SL | SQUARE MESH OF COLD DRAWN DEFORMED WIRE, MILD STEEL SHEETS | D500SL |



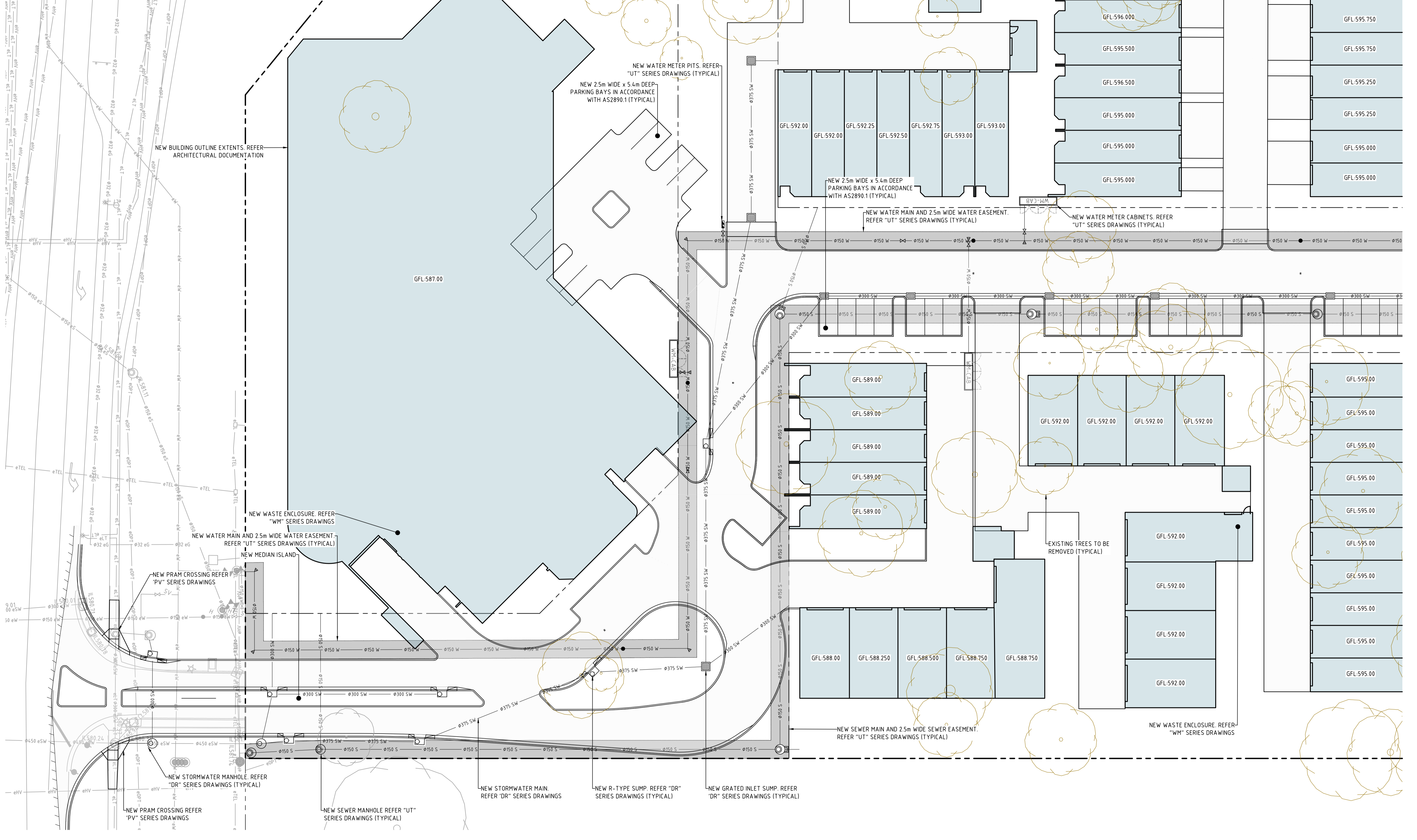
- FABRICATION SHALL BE LAPPED SUCH THAT THE TWO OUTERMOST WIRES OF ONE SHEET OVERLAP THE TWO OUTERMOST WIRES OF THE OTHER SHEET BY 25mm MINIMUM. U.N.O.
- REINFORCEMENT BARS SHALL BE LAPPED 40 x Ø MINIMUM U.N.O

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| | | Scales | | North | |  | | | | Client Logo  | | Status NOT FOR CONSTRUCTION | | | | Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | | | | | | | |
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| | | | | | | | | | | Date Plotted 20-Dec-19 | | Designed By LT | | Design Check AM | | | | | | | | | | | | | | | |
| | | | | | | | | | | Coordinate System STROMLO GRID | | Approved BC | | Approved Date 24.08.2018 | | | | | | | | | | | | | | | |
| | | | | | | | | | | Height Datum AHD | | Approved Signature | | | | | | | | | | | | | | | | | |
| A | | FOR INFORMATION | | 20.12.2019 | | AM | | | | | | | | | | | | Project Number | | Type | | Discipline | | Sub-Discipline | | Drg No. | | Rev | |
| Rev | | Description | | Date | | Approved | | | | | | | | | | | | 180658 | | DRG | | CIV | | GN | | 0004 | | A | |

REFERENCES:

1. FOR ALIGNMENT CONTROL AND GRADING PLAN REFER DRAWING AL-0111 TO AL-0113
2. FOR PAVEMENT PLAN REFER DRAWING PV-0301 TO PV-0303
3. FOR STORMWATER PLAN REFER DRAWING DR-0401 TO 0403
4. FOR UTILITIES PLAN REFER DRAWING UT-0501 TO UT-0503



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| Rev | Description | Date | Approved |
|-----|-----------------|------------|----------|
| A | FOR INFORMATION | 20.12.2019 | AM |

Scales

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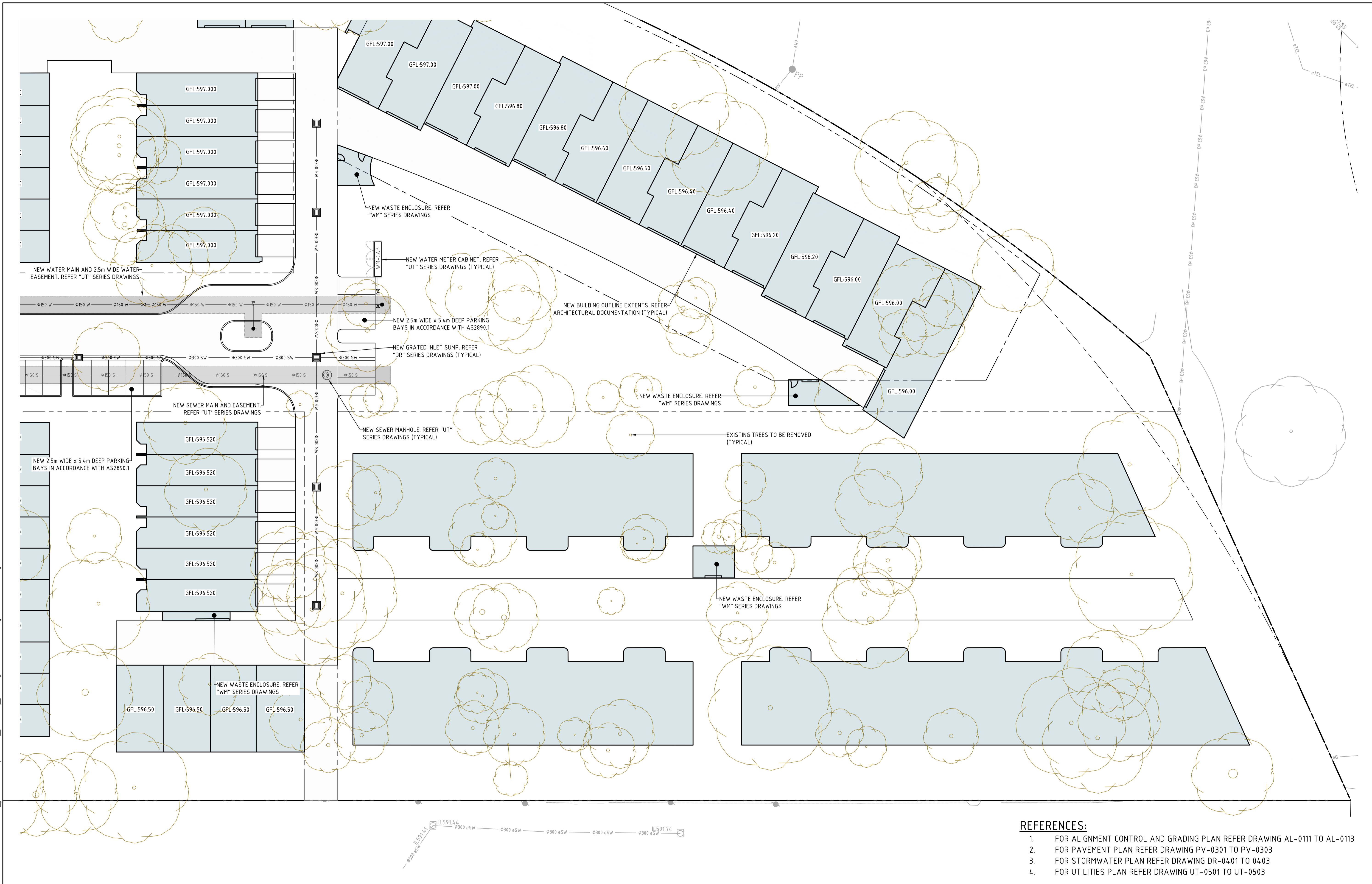
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| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| GENERAL ARRANGEMENT PLAN | | | | | |
| SHEET 1 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Dwg No. | Rev |
| 180658 | DRG | CIV | AL | 0101 | A |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-al-0103.dwg



- REFERENCES:**
1. FOR ALIGNMENT CONTROL AND GRADING PLAN REFER DRAWING AL-0111 TO AL-0113
 2. FOR PAVEMENT PLAN REFER DRAWING PV-0301 TO PV-0303
 3. FOR STORMWATER PLAN REFER DRAWING DR-0401 TO 0403
 4. FOR UTILITIES PLAN REFER DRAWING UT-0501 TO UT-0503

| Rev | Description | Date | Approved |
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| A | FOR INFORMATION | 20.12.2019 | AM |

Scales

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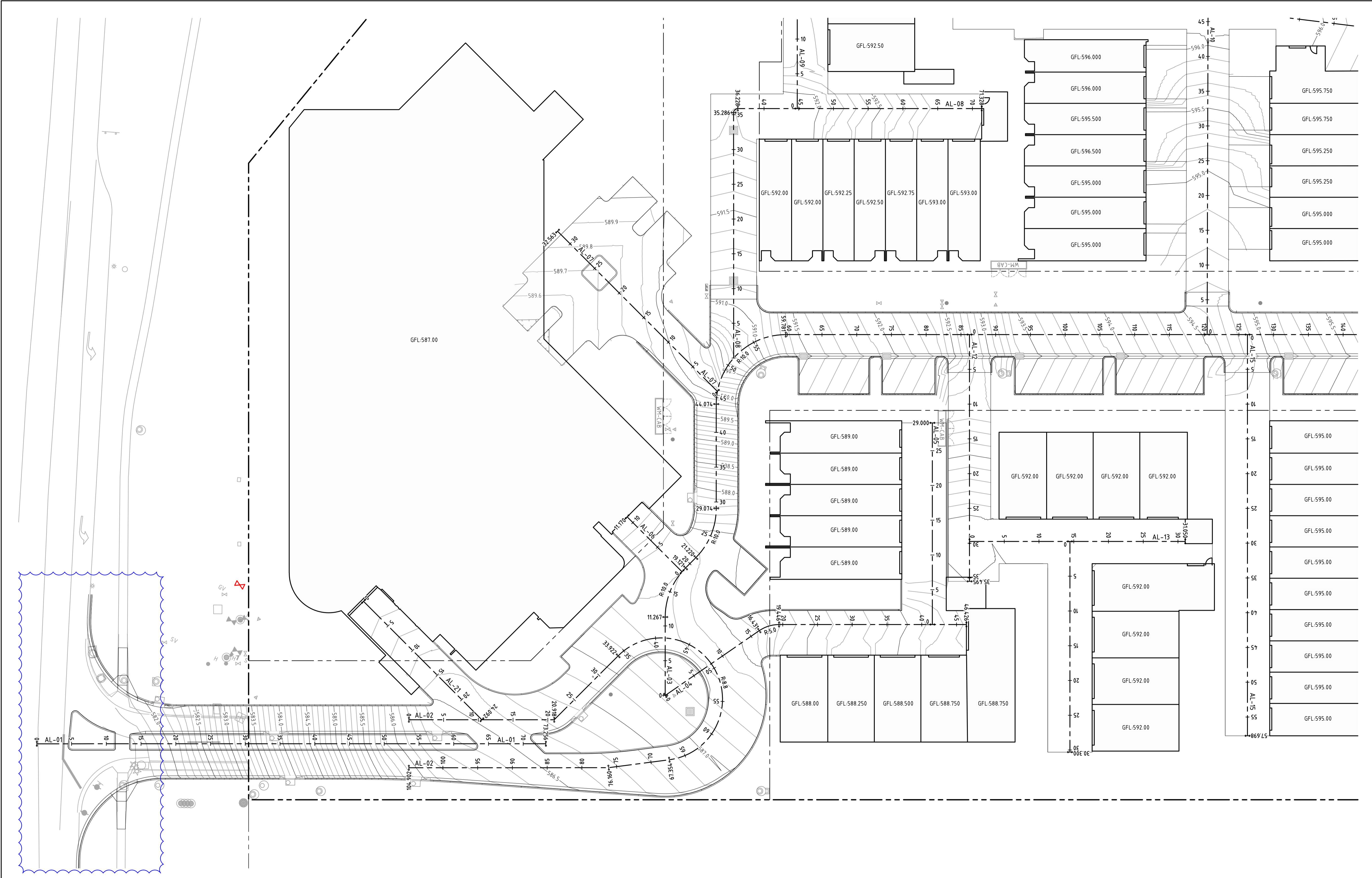
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| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Drafting Check | DCA |
| | | Design Check | AM |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| GENERAL ARRANGEMENT PLAN | | | | | |
| SHEET 3 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
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| Rev | Description | Date | Approved |

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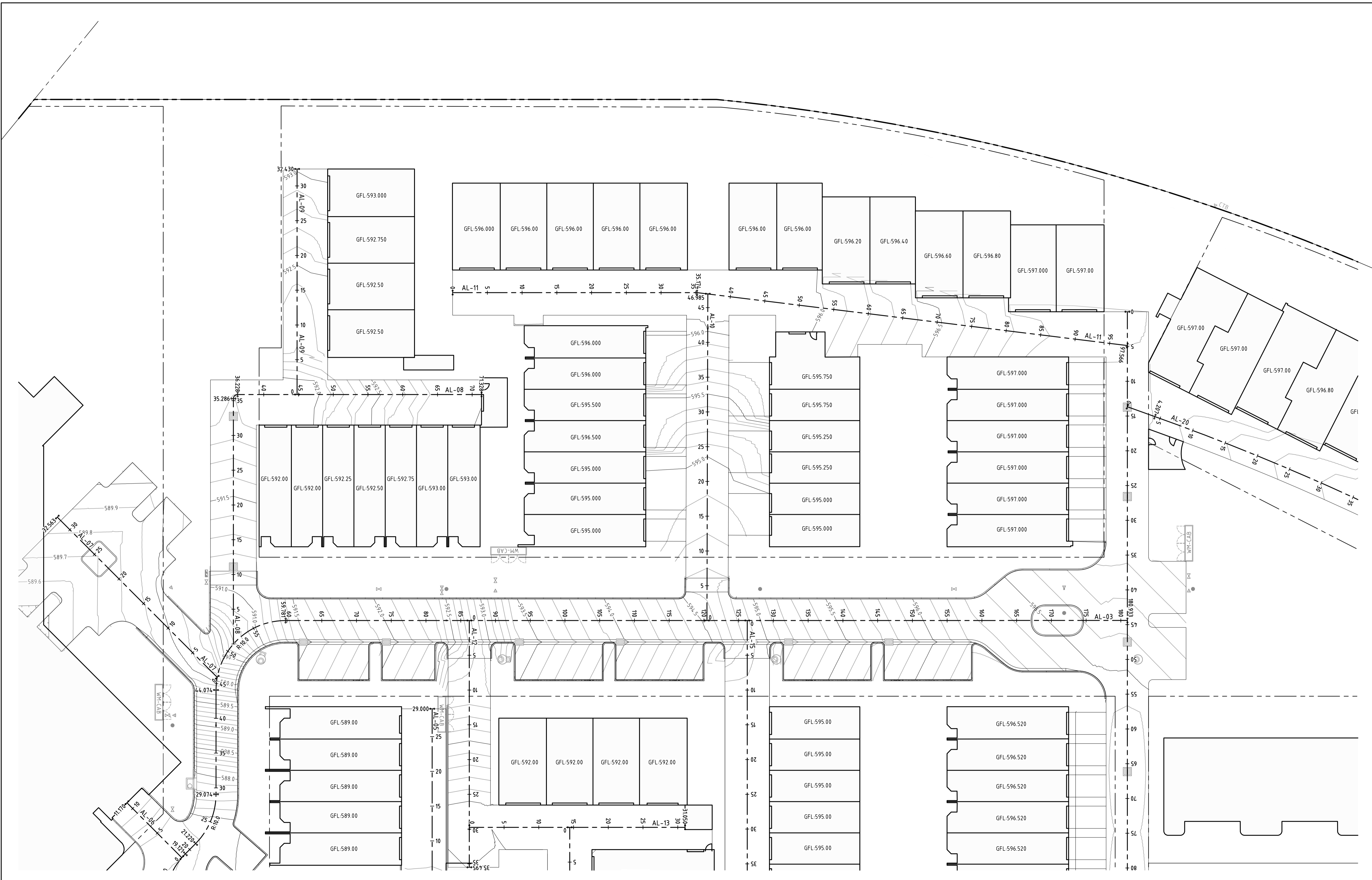
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| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Drafting Check | DCA |
| | | Design Check | AM |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
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| Drawing Title | | | | | |
| ALIGNMENT CONTROL AND GRADING | | | | | |
| PLAN SHEET 1 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
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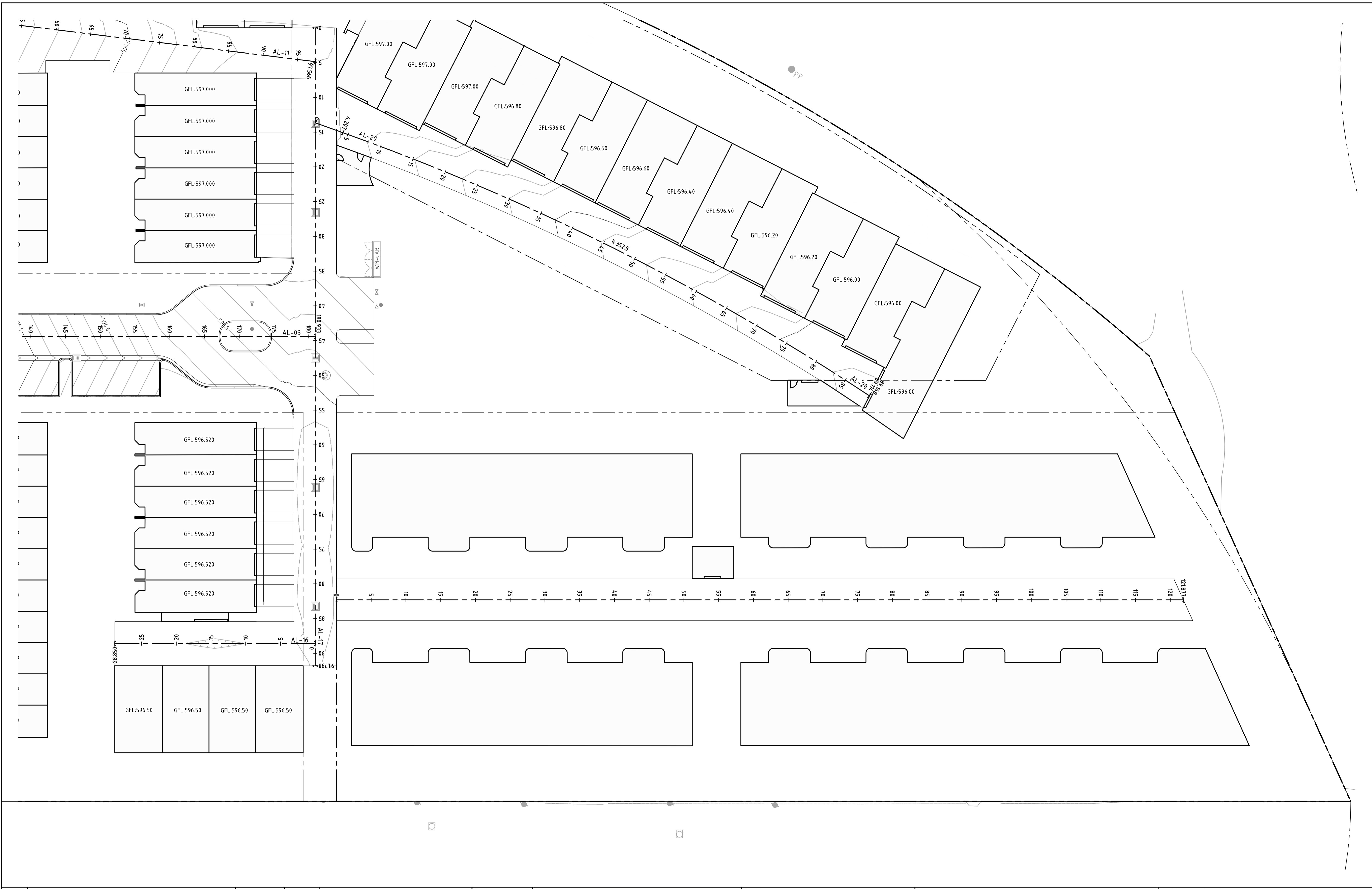
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| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| Project Name and Location | | | | | | |
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| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| ALIGNMENT CONTROL AND GRADING | | | | | | |
| PLAN SHEET 2 | | | | | | |
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| Rev | Description | Date | Approved |

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| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Drafting Check | DCA |
| | | Design Check | AM |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| ALIGNMENT CONTROL AND GRADING | | | | | | |
| PLAN SHEET 3 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | AL | 0113 | A | |

| AL-01 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212201.430 | 604278.145 | | | 064° 40' 50" |
| EP | 73.256 | 212267.649 | 604309.474 | 73.256 | | |

| AL-07 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212268.299 | 604365.842 | | | 289° 43' 18" |
| EP | 32.563 | 212237.646 | 604376.830 | 32.563 | | |

| AL-15 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212333.761 | 604405.847 | | | 154° 41' 00" |
| EP | 57.698 | 212358.434 | 604353.690 | 57.698 | | |

| AL-02 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|-----------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212248.354 | 604304.161 | | | 064° 41' 00" |
| EP | 20.918 | 212267.263 | 604313.106 | 20.918 | | |
| BP | 20.918 | 212267.263 | 604313.106 | 13.004 | | 019° 41' 12" |
| EP | 33.922 | 212271.644 | 604325.350 | | | |
| TP | 33.922 | 212271.644 | 604325.350 | 33.431 | 8.8 | 128° 27' 41.82" |
| IP | 8.098 | 212262.963 | 604301.029 | | | |
| TP | 67.354 | 212284.690 | 604314.987 | | | |
| BP | 67.354 | 212284.690 | 604314.987 | 8.806 | | 237° 15' 55" |
| EP | 76.160 | 212277.283 | 604310.225 | | | |
| BP | 76.160 | 212277.283 | 604310.225 | 28.743 | | 244° 39' 33" |
| EP | 104.902 | 212251.306 | 604297.924 | | | |

| AL-08 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|-----------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212268.364 | 604371.168 | | | 334° 40' 33" |
| EP | 35.286 | 212253.271 | 604403.063 | 35.286 | | |
| TP | 35.286 | 212253.271 | 604403.063 | 0.943 | 0.6 | 019° 40' 46.64" |
| IP | 35.886 | 212253.015 | 604403.605 | | | |
| TP | 36.228 | 212253.557 | 604403.862 | | | |
| BP | 36.228 | 212253.557 | 604403.862 | 35.100 | | 064° 41' 00" |
| EP | 71.328 | 212285.286 | 604418.871 | | | |

| AL-16 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212402.107 | 604389.286 | | | 244° 40' 46" |
| EP | 28.850 | 212376.028 | 604376.948 | 28.850 | | |

| AL-03 SETOUT | | | | | | |
|--------------|----------|------------|------------|---------|--------|-----------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212280.207 | 604323.102 | | | 334° 41' 00" |
| EP | 11.267 | 212275.389 | 604333.286 | 11.267 | | |
| TP | 11.267 | 212275.389 | 604333.286 | 7.854 | 10.0 | 357° 10' 59.98" |
| IP | 15.409 | 212273.618 | 604337.031 | | | |
| TP | 19.121 | 212275.013 | 604340.931 | | | |
| BP | 19.121 | 212275.013 | 604340.931 | 2.099 | | 019° 41' 00" |
| EP | 21.220 | 212275.720 | 604342.907 | | | |
| TP | 21.220 | 212275.720 | 604342.907 | 7.854 | 10.0 | 357° 10' 59.98" |
| IP | 25.362 | 212277.116 | 604346.807 | | | |
| TP | 29.074 | 212275.344 | 604350.552 | | | |
| BP | 29.074 | 212275.344 | 604350.552 | 15.000 | | 334° 41' 00" |
| EP | 44.074 | 212268.930 | 604364.111 | | | |
| TP | 44.074 | 212268.930 | 604364.111 | 15.707 | 10.0 | 019° 40' 52.80" |
| IP | 54.073 | 212264.654 | 604373.150 | | | |
| TP | 59.781 | 212273.693 | 604377.426 | | | |
| BP | 59.781 | 212273.693 | 604377.426 | 121.152 | | 064° 40' 46" |
| EP | 180.933 | 212383.206 | 604429.241 | | | |

| AL-09 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212261.299 | 604407.524 | | | 334° 41' 00" |
| EP | 32.430 | 212247.431 | 604436.839 | 32.430 | | |

| AL-17 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212364.220 | 604469.375 | | | 154° 41' 00" |
| EP | 91.798 | 212403.475 | 604386.394 | 91.798 | | |

| AL-10 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212328.516 | 604403.365 | | | 334° 50' 24" |
| EP | 46.985 | 212308.541 | 604445.893 | 46.985 | | |

| AL-20 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|-----------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212370.063 | 604457.025 | | | 084° 19' 45" |
| EP | 4.207 | 212374.249 | 604457.441 | 4.207 | | |
| TP | 4.207 | 212374.249 | 604457.441 | 84.907 | 352.5 | 091° 13' 45.14" |
| IP | 46.867 | 212416.700 | 604461.656 | | | |
| TP | 89.114 | 212458.932 | 604455.624 | | | |
| BP | 89.114 | 212458.932 | 604455.624 | 0.033 | | 098° 07' 46" |
| EP | 89.148 | 212458.965 | 604455.619 | | | |

| AL-04 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|-----------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212280.207 | 604323.102 | | | 030° 08' 07" |
| EP | 16.431 | 212288.456 | 604337.312 | 16.431 | | |
| TP | 16.431 | 212288.456 | 604337.312 | 3.015 | 5.0 | 047° 24' 33.30" |
| IP | 17.986 | 212289.237 | 604338.657 | | | |
| TP | 19.446 | 212290.643 | 604339.321 | | | |
| BP | 19.446 | 212290.643 | 604339.321 | 26.980 | | 064° 41' 00" |
| EP | 46.426 | 212315.031 | 604350.859 | | | |

| AL-11 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212275.269 | 604430.341 | | | 064° 41' 13" |
| EP | 35.174 | 212307.066 | 604445.380 | 35.174 | | |
| BP | 35.174 | 212307.066 | 604445.380 | 62.392 | | 071° 41' 20" |
| EP | 97.566 | 212366.298 | 604464.982 | | | |

| AL-21 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212235.173 | 604316.771 | | | 109° 41' 00" |
| EP | 33.840 | 212267.036 | 604305.373 | 33.840 | | |

| AL-05 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212310.602 | 604348.763 | | | 334° 41' 00" |
| EP | 29.000 | 212298.201 | 604374.978 | 29.000 | | |

| AL-13 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212310.324 | 604361.851 | | | 064° 41' 00" |
| EP | 31.050 | 212338.392 | 604375.129 | 31.050 | | |

| AL-06 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212274.787 | 604340.215 | | | 289° 41' 00" |
| EP | 11.170 | 212264.270 | 604343.978 | 11.170 | | |

| AL-14 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212323.386 | 604368.030 | | | 154° 41' 00" |
| EP | 30.300 | 212336.343 | 604340.640 | 30.300 | | |

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| A | FOR INFORMATION | | | 20.12.2019 | | AM |
| Rev | Description | | | Date | | Approved |

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| Scales | North |
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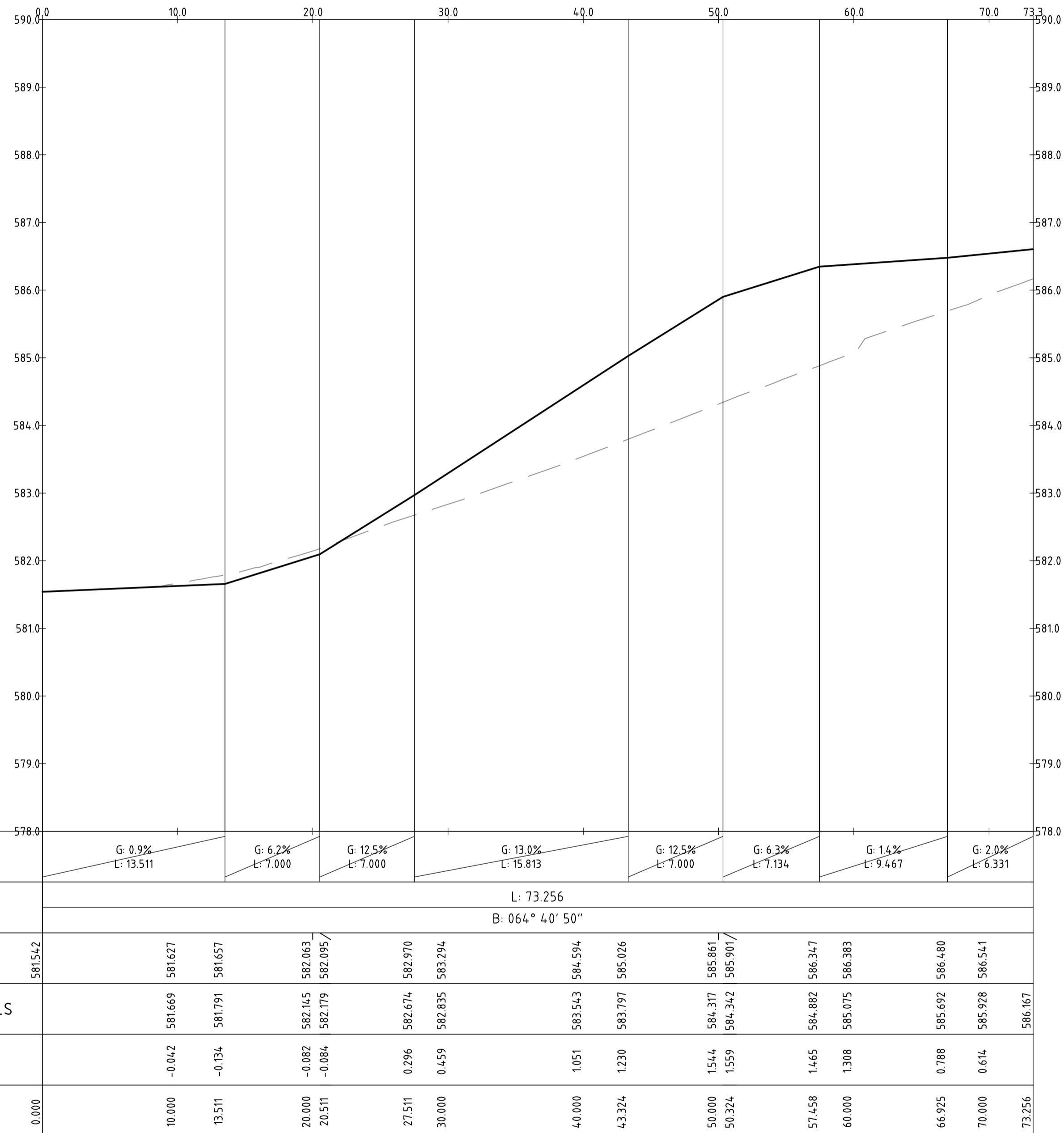
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| Status | | | | | |
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| NOT FOR CONSTRUCTION | | | | | |
| Original Size | A1 | Drawn By | RT | Drafting Check | DCA |
| Date Plotted | 20-Dec-19 | Designed By | LT | Design Check | AM |
| Coordinate System | STROMLO GRID | Approved | BC | Approved Date | 24.08.2018 |
| Height Datum | AHD | Approved Signature | | | |

| Project Name and Location | | | | | | |
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| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| HORIZONTAL SETOUT TABLES | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drw No. | Rev | |
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PROFILE OF ALIGNMENT AL-01
 (VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 73.256

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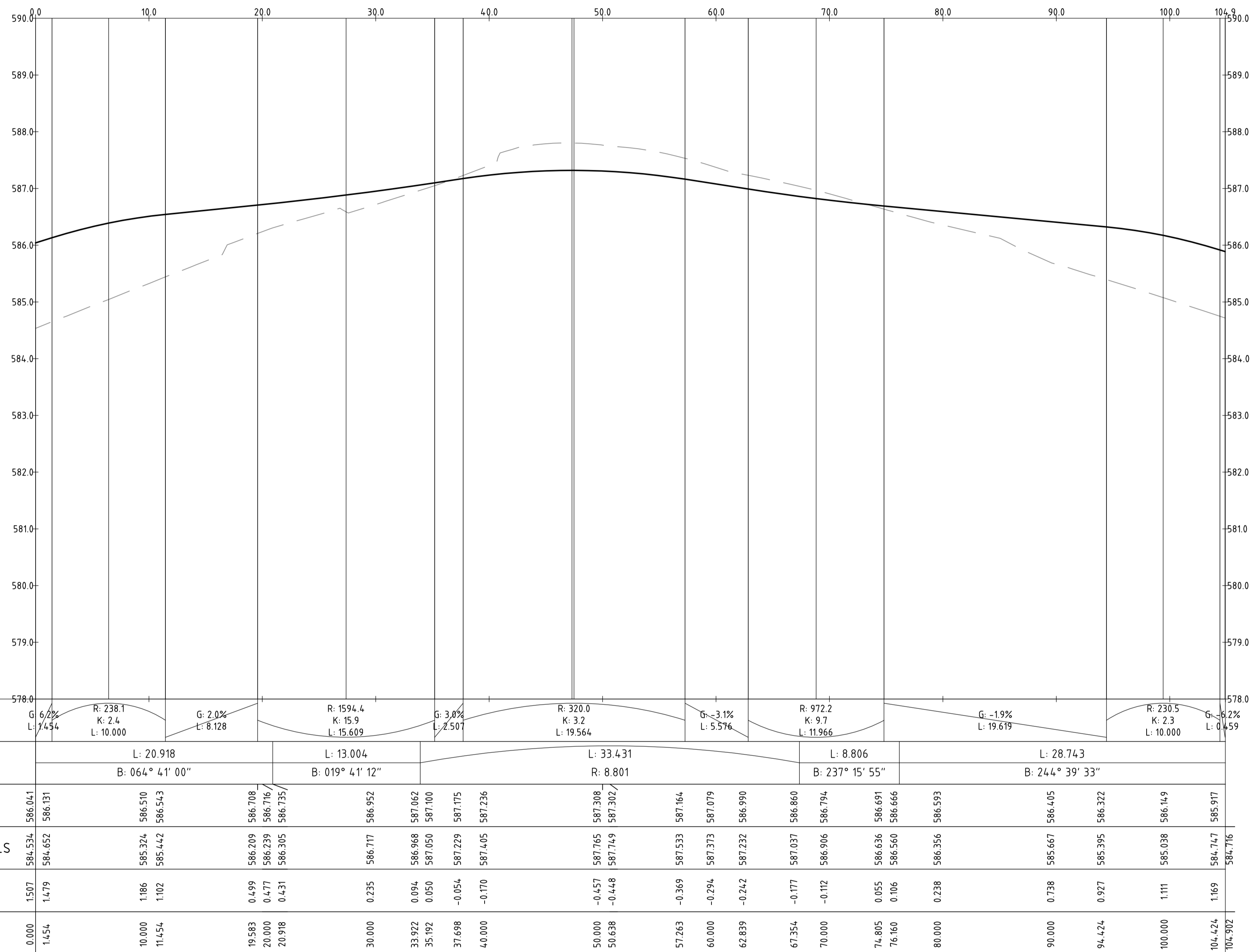
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| Coordinate System | STROMLO GRID | Drafting Check | DCA |
| Height Datum | AHD | Design Check | AM |
| | | Approved | BC |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| ROAD LONGITUDINAL SECTIONS | | | | | |
| SHEET 1 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0131 | A |

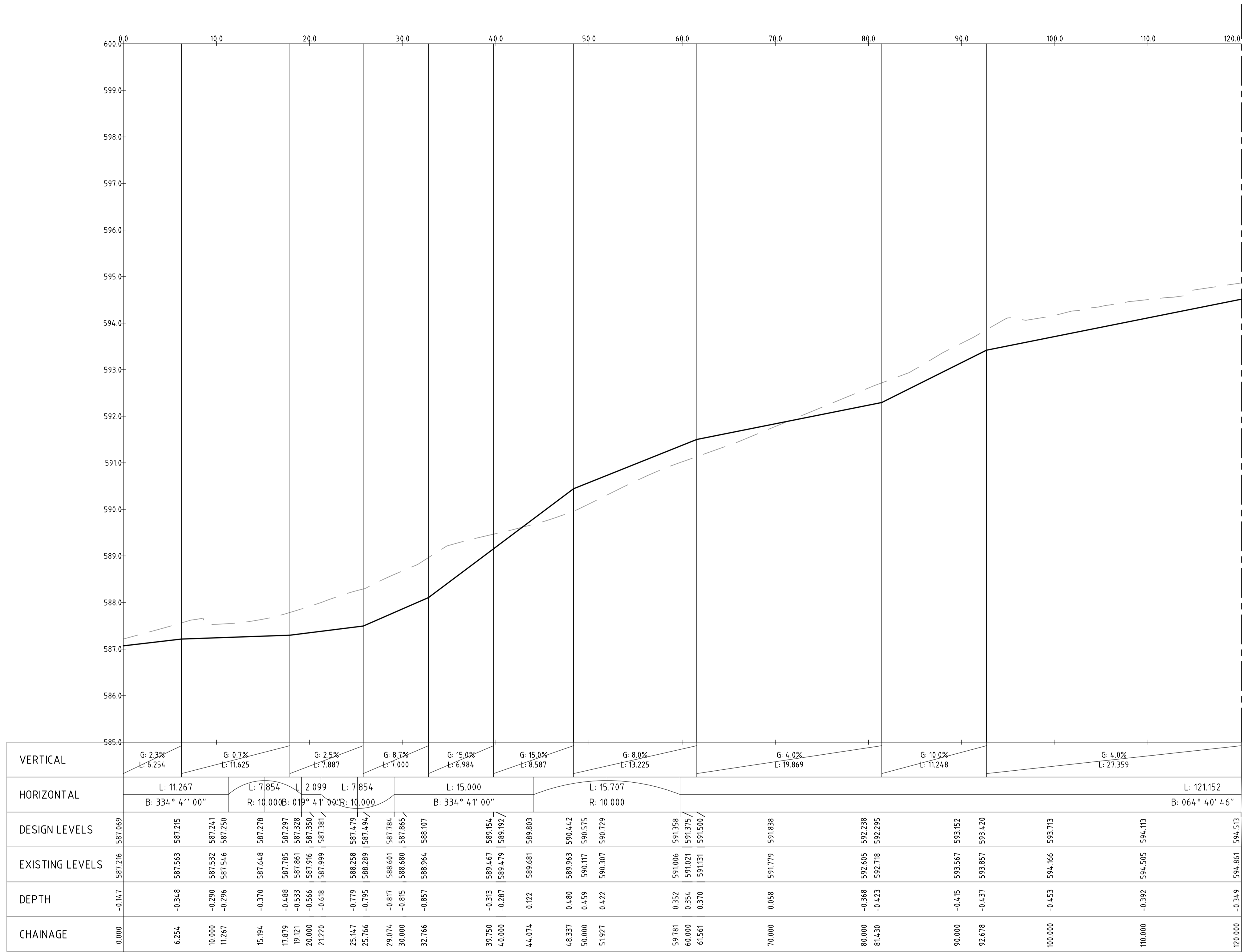
File Name: P:\2018\180658_B4-538-Campbell\04_CAD\4-2_Drawings\CIV\180658-drg-civ-al-0132.dwg



PROFILE OF ALIGNMENT AL-02
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 104.902

| | | | | | | | | | | | | | | | | | |
|-------------------|--|--------------------------------|--|-------|--|---|--|---|--|---------------------------------|--|--|--|---------------------------|--|---|--|
| | | Scales | | North | | Client Logo | | Status | | Project Name and Location | | | | | | | |
| | | 0 5 7.5 10 12.5m 1:250 @ A1 | | | |  www.sellickconsultants.com.au | |  | | NOT FOR CONSTRUCTION | | RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| | | | | | | | | | | Original Size: A1 | | Drawn By: RT | | Drafting Check: DCA | | Drawing Title: ROAD LONGITUDINAL SECTIONS | |
| | | | | | | | | | | Date Plotted: 20-Dec-19 | | Designed By: LT | | Design Check: AM | | SHEET 2 | |
| | | | | | | | | | | Coordinate System: STROMLO GRID | | Approved: BC | | Approved Date: 24.08.2018 | | Project Number: 180658 | |
| | | | | | | | | | | Height Datum: AHD | | Approved Signature: | | | | Type: DRG | |
| | | | | | | | | | | | | | | | | Discipline: CIV | |
| | | | | | | | | | | | | | | | | Sub-Discipline: AL | |
| | | | | | | | | | | | | | | | | Drg No: 0132 | |
| | | | | | | | | | | | | | | | | Rev: A | |
| A FOR INFORMATION | | 20.12.2019 | | AM | | | | | | | | | | | | | |
| Rev | | Description | | Date | | Approved | | | | | | | | | | | |

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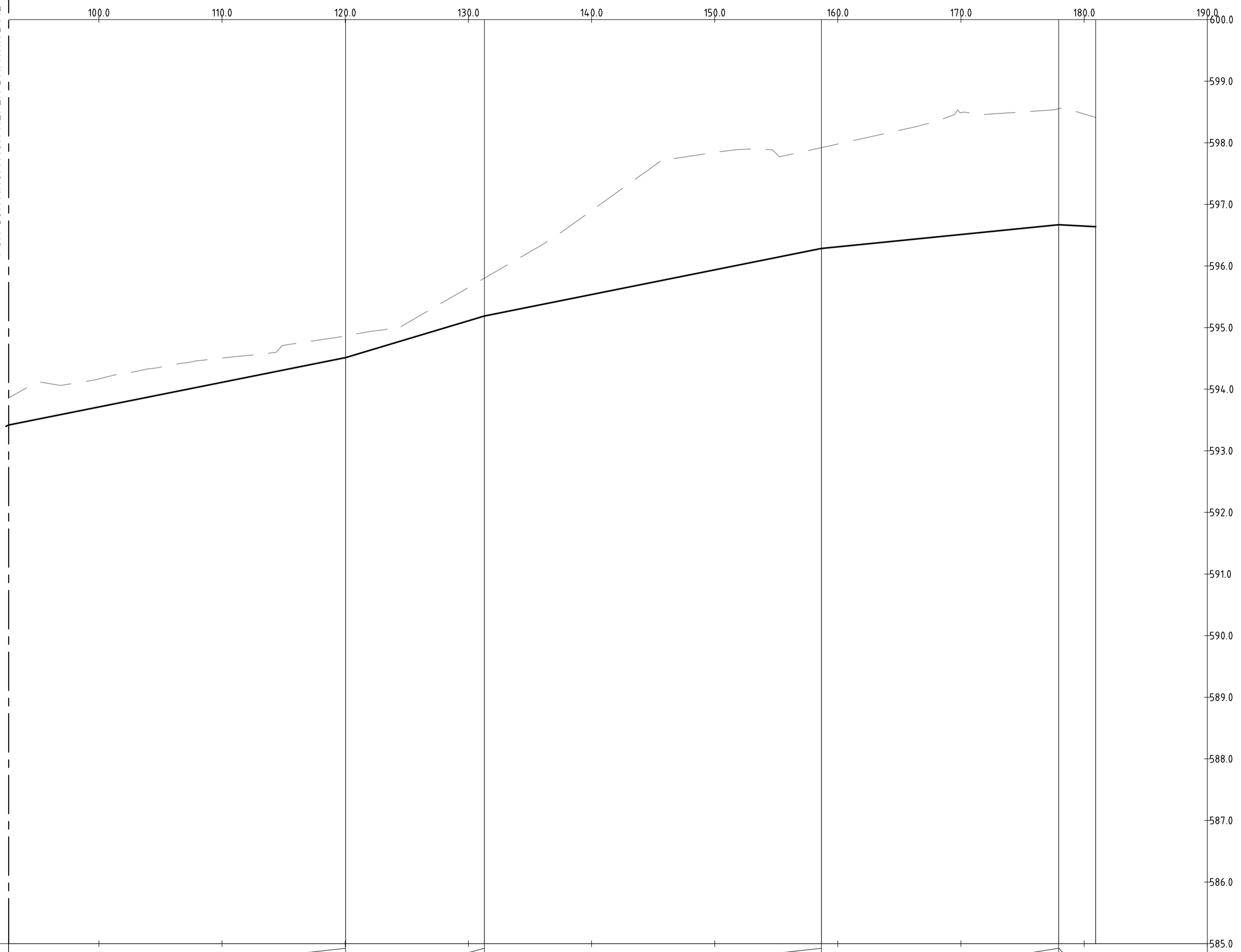
FOR CONTINUATION REFER DRAWING AL-0134

PROFILE OF ALIGNMENT AL-03
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 190.000

| | | | | | | | | | |
|--|--|--------------------------------|--|---|--|---|--|---|--|
| Scales | | North | | Client Logo | | Status | | Project Name and Location | |
| | | | | | | NOT FOR CONSTRUCTION | | RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | |
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| A FOR INFORMATION Rev Description | | 20.12.2019 AM Date Approved | | Drawn By: RT Designed By: LT Approved: BC Approved Date: 24.08.2018 Approved Signature: | | Project Number: 180658 Type: DRG Discipline: CIV Sub-Discipline: AL | | Drg No.: 0133 Rev: A | |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-al-0134.dwg

FOR CONTINUATION REFER DRAWING AL-0133



| VERTICAL | 100.0 | 110.0 | 120.0 | 130.0 | 140.0 | 150.0 | 160.0 | 170.0 | 180.0 | 190.0 | | | | | | |
|-----------------|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| HORIZONTAL | L: 121.152 B: 0.64° 4.0' 4.6" | | | | | | | | | | | | | | | |
| DESIGN LEVELS | 593.20 | 593.713 | 594.113 | 594.513 | 594.861 | 595.111 | 595.284 | 595.537 | 596.669 | 596.639 | | | | | | |
| EXISTING LEVELS | 592.857 | 594.166 | 594.505 | 594.862 | 595.189 | 595.802 | 597.980 | 598.448 | 598.412 | 596.639 | | | | | | |
| DEPTH | -0.437 | -0.453 | -0.392 | -0.349 | -0.348 | -0.540 | -1.638 | -1.670 | -1.886 | -1.773 | | | | | | |
| CHAINAGE | 92.678 | 100.000 | 110.000 | 120.000 | 120.037 | 130.000 | 131.303 | 140.000 | 150.000 | 158.662 | 160.000 | 170.000 | 177.933 | 180.000 | 180.933 | 190.000 |

PROFILE OF ALIGNMENT AL-03
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 190.000

| Rev | Description | Date | Approved |
|-----|-----------------|------------|----------|
| A | FOR INFORMATION | 20.12.2019 | AM |

Scales

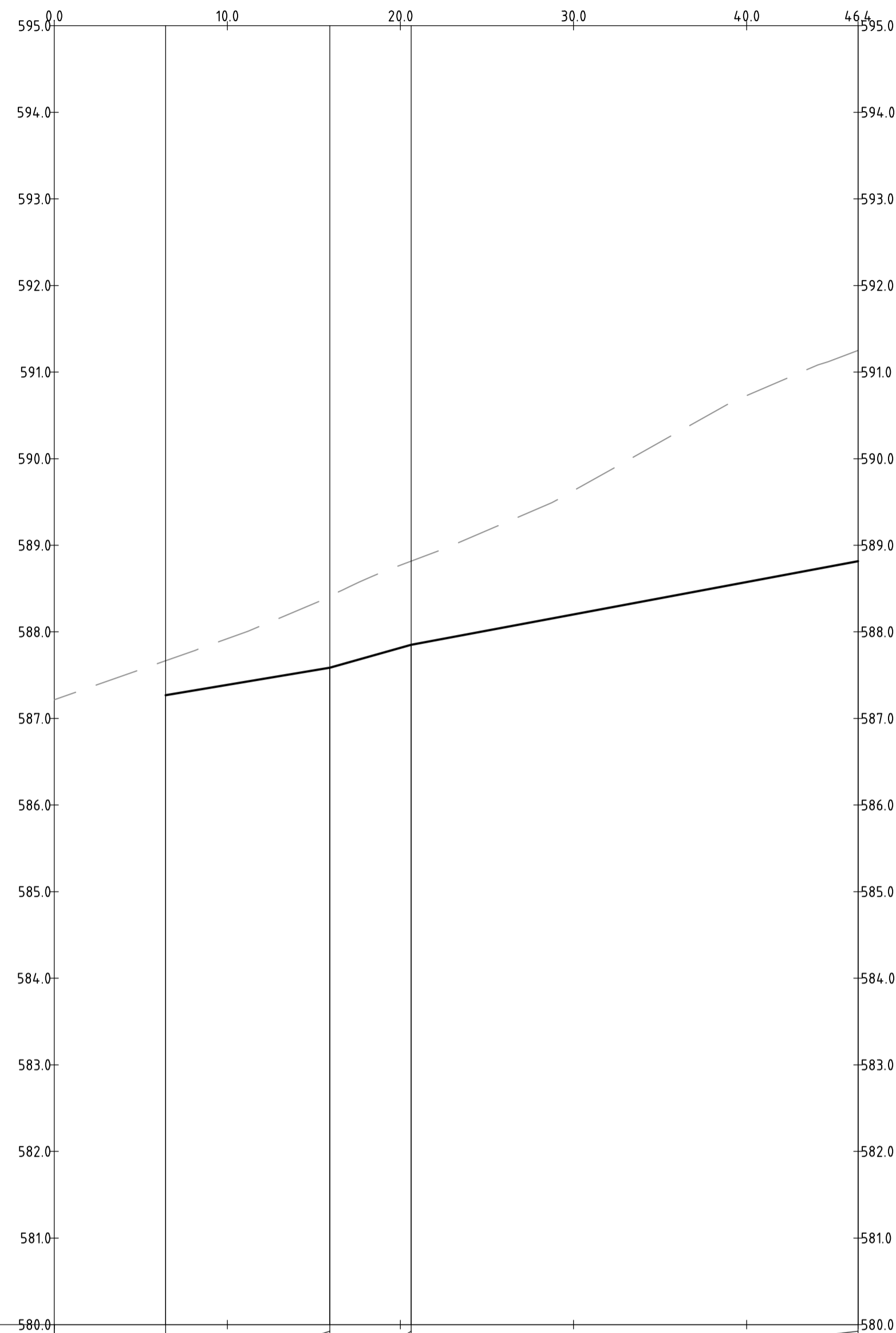
North

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| Status | | | |
|----------------------|--------------|--------------------|------------|
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

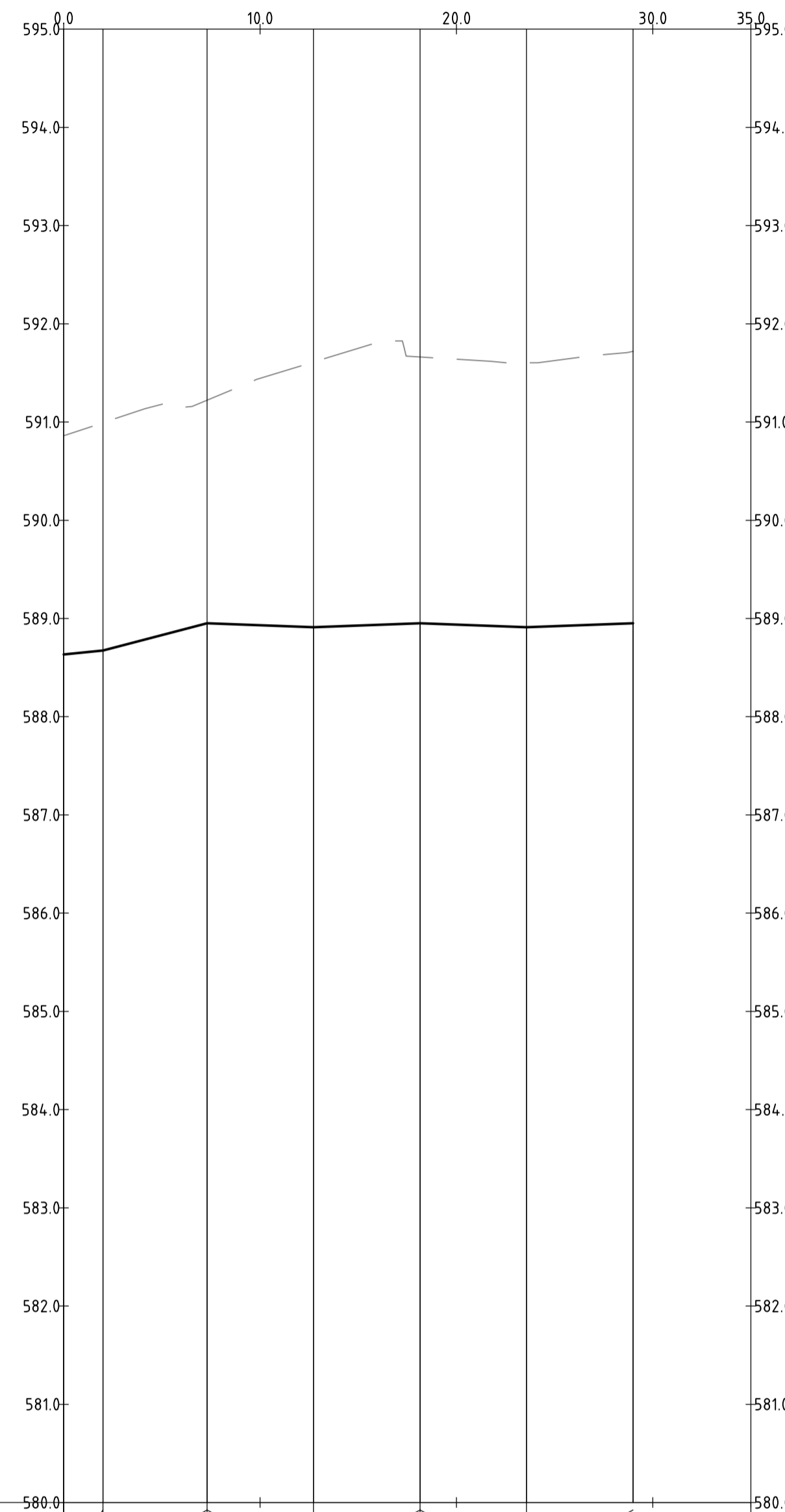
| Project Name and Location | | | | | | |
|------------------------------|------|------------|----------------|---------|-----|--|
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| ROAD LONGITUDINAL SECTIONS | | | | | | |
| SHEET 4 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | AL | 0134 | A | |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-al-0135.dwg



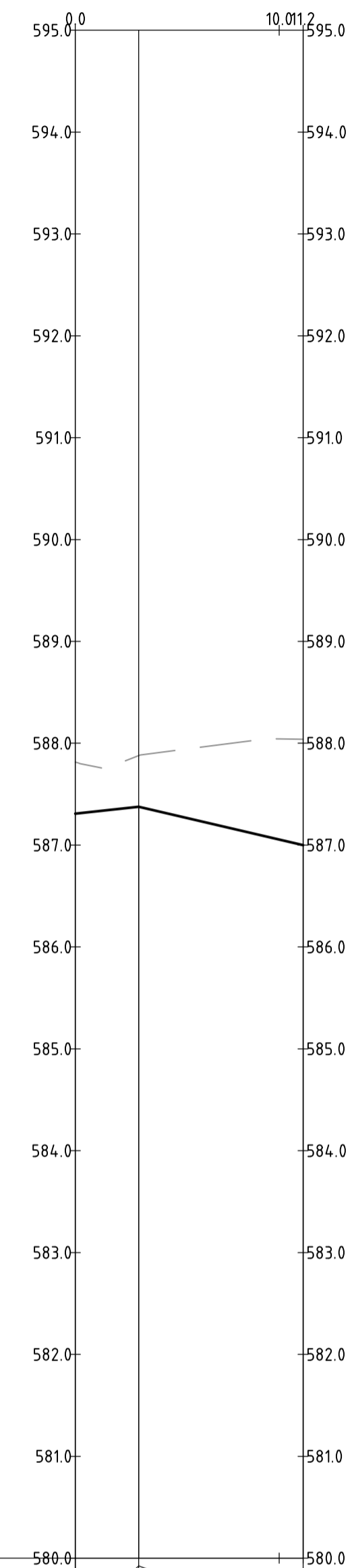
| | | | | | | |
|-----------------|------------------------------|---------|----------------------|---------|------------------------------|---------|
| VERTICAL | G: 3.3% L: 9.476 | | G: 5.6% L: 4.706 | | G: 3.7% L: 25.802 | |
| HORIZONTAL | L: 16.431 B: 030° 08' 07" | | L: 3.015 B: 5.000 | | L: 26.980 B: 064° 41' 00" | |
| DESIGN LEVELS | 587.920 | 587.988 | 587.586 | 587.615 | 587.700 | 587.816 |
| EXISTING LEVELS | 587.216 | 587.920 | 588.412 | 588.462 | 588.603 | 588.728 |
| DEPTH | -0.533 | -0.826 | -0.848 | -0.903 | -0.943 | -0.953 |
| CHAINAGE | 0.000 | 10.000 | 15.918 | 16.431 | 17.938 | 19.446 |

PROFILE OF ALIGNMENT AL-04
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 46.426



| | | | | | | | | | | | | |
|-----------------|------------------------------|---------|---------------------|---------|----------------------|---------|---------------------|---------|----------------------|---------|---------------------|---------|
| VERTICAL | G: 2.0% L: 2.000 | | G: 5.3% L: 5.300 | | G: -0.7% L: 5.425 | | G: 0.7% L: 5.425 | | G: -0.7% L: 5.425 | | G: 0.7% L: 5.425 | |
| HORIZONTAL | L: 29.000 B: 334° 41' 00" | | | | | | | | | | | |
| DESIGN LEVELS | 588.633 | 588.673 | 588.952 | 588.932 | 588.912 | 588.952 | 588.938 | 588.912 | 591.721 | 591.721 | 591.721 | 591.721 |
| EXISTING LEVELS | 588.633 | 588.673 | 588.952 | 588.932 | 588.912 | 588.952 | 588.938 | 588.912 | 591.721 | 591.721 | 591.721 | 591.721 |
| DEPTH | -2.226 | -2.320 | -2.270 | -2.512 | -2.699 | -2.711 | -2.701 | -2.681 | | | | |
| CHAINAGE | 0.000 | 2.000 | 7.300 | 10.000 | 12.725 | 18.150 | 20.000 | 23.575 | 29.000 | 30.000 | 30.000 | 35.000 |

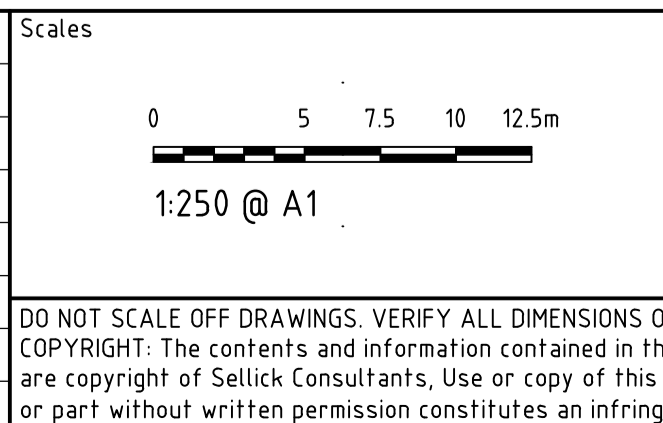
PROFILE OF ALIGNMENT AL-05
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 35.000



| | | | | |
|-----------------|------------------------------|---------|----------------------|---------|
| VERTICAL | G: 2.1% L: 3.106 | | G: -4.7% L: 8.064 | |
| HORIZONTAL | L: 11.170 B: 289° 41' 00" | | | |
| DESIGN LEVELS | 587.309 | 587.376 | 587.655 | 587.800 |
| EXISTING LEVELS | 587.815 | 587.376 | 588.044 | 587.815 |
| DEPTH | -0.506 | -0.503 | -0.989 | -1.038 |
| CHAINAGE | 0.000 | 3.106 | 10.000 | 11.170 |

PROFILE OF ALIGNMENT AL-06
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 11.170

| | | | |
|-----|-----------------|------------|----------|
| Rev | Description | Date | Approved |
| A | FOR INFORMATION | 20.12.2019 | AM |

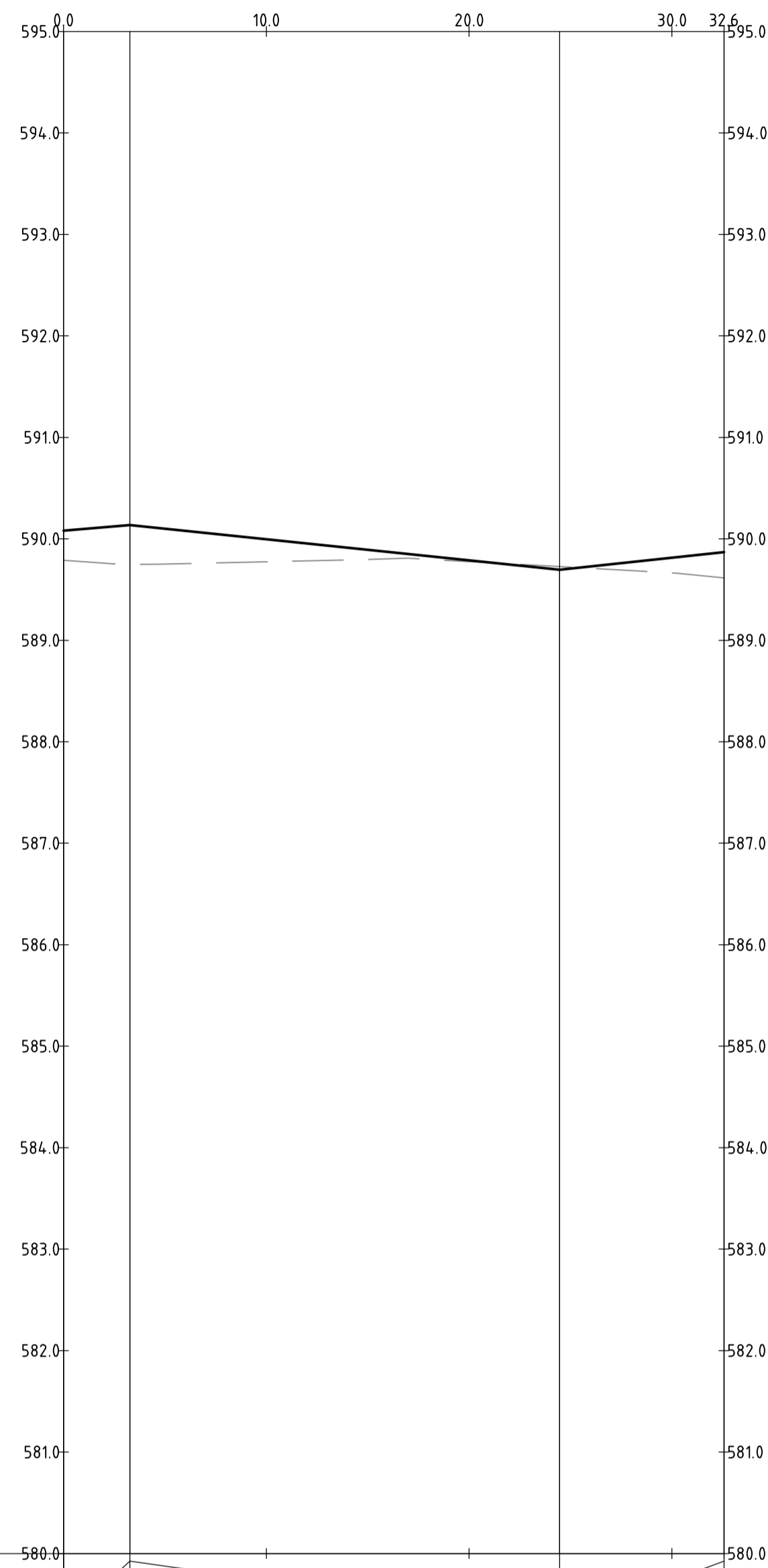


North



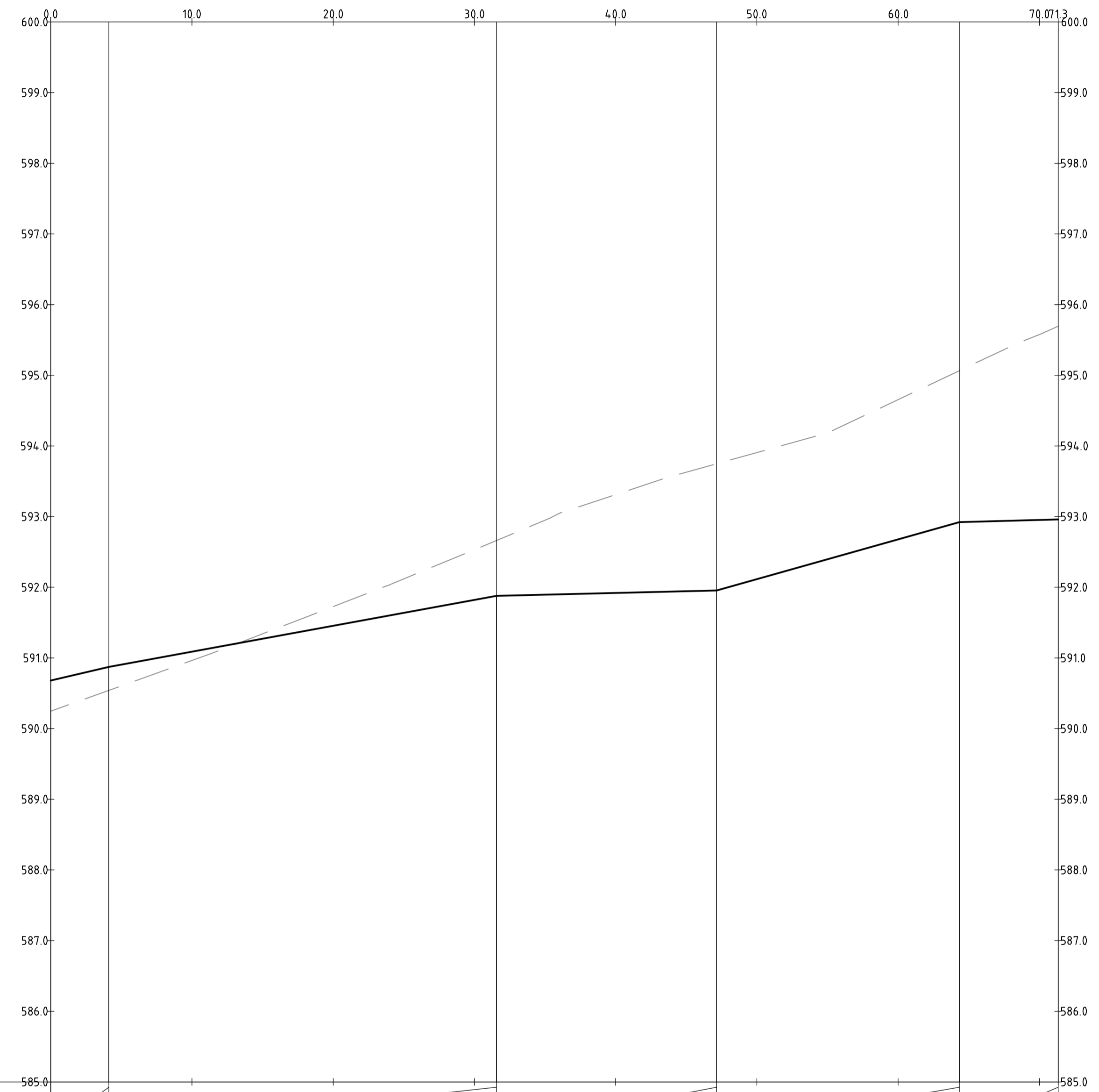
| | | | |
|-----------------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | | |
|------------------------------|------|------------|----------------|---------|-----|--|
| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| ROAD LONGITUDINAL SECTIONS | | | | | | |
| SHEET 5 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | AL | 0135 | A | |



| | | | | | | |
|-----------------|------------------------------|---------|-----------------------|---------|---------------------|---------|
| VERTICAL | G: 1.7% L: 3.270 | | G: -2.1% L: 21.187 | | G: 2.1% L: 8.106 | |
| HORIZONTAL | L: 32.563 B: 289° 43' 18" | | | | | |
| DESIGN LEVELS | 590.080 | 590.136 | 589.996 | 589.789 | 589.696 | 589.814 |
| EXISTING LEVELS | 589.789 | 589.748 | 589.774 | 589.776 | 589.726 | 589.814 |
| DEPTH | 0.290 | 0.389 | 0.223 | 0.013 | -0.030 | 0.150 |
| CHAINAGE | 0.000 | 3.270 | 10.000 | 20.000 | 24.457 | 32.563 |

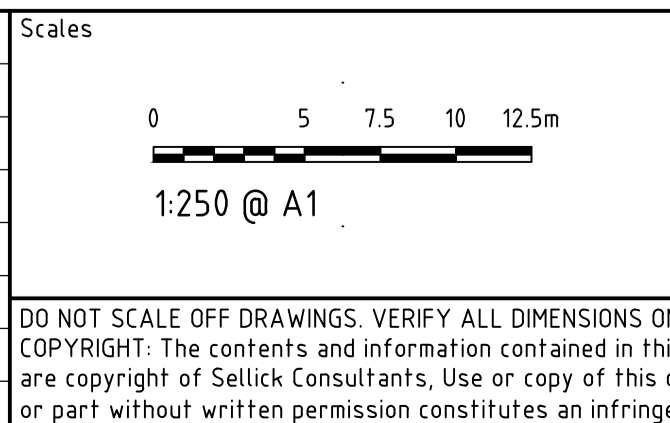
PROFILE OF ALIGNMENT AL-07
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 32.563



| | | | | | | | | | | |
|-----------------|------------------------------|---------|----------------------|---------|----------------------|---------|------------------------------|---------|---------------------|---------|
| VERTICAL | G: 4.7% L: 4.122 | | G: 3.7% L: 27.438 | | G: 0.5% L: 15.595 | | G: 5.6% L: 17.180 | | G: 0.5% L: 6.994 | |
| HORIZONTAL | L: 35.286 B: 334° 40' 33" | | | | L: 0.943 R: 0.400 | | L: 35.100 B: 064° 41' 00" | | | |
| DESIGN LEVELS | 590.680 | 590.873 | 591.088 | 591.454 | 591.820 | 591.877 | 591.896 | 591.888 | 591.900 | 591.919 |
| EXISTING LEVELS | 590.246 | 590.541 | 590.963 | 591.727 | 592.530 | 592.661 | 592.973 | 593.020 | 593.063 | 593.310 |
| DEPTH | 0.434 | 0.332 | 0.125 | -0.272 | -0.710 | -0.784 | -1.077 | -1.122 | -1.162 | -1.392 |
| CHAINAGE | 0.000 | 4.122 | 10.000 | 20.000 | 30.000 | 31.560 | 35.286 | 35.757 | 36.228 | 40.000 |

PROFILE OF ALIGNMENT AL-08
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 71.328

| | | | |
|-----|-----------------|------------|----------|
| Rev | Description | Date | Approved |
| A | FOR INFORMATION | 20.12.2019 | AM |

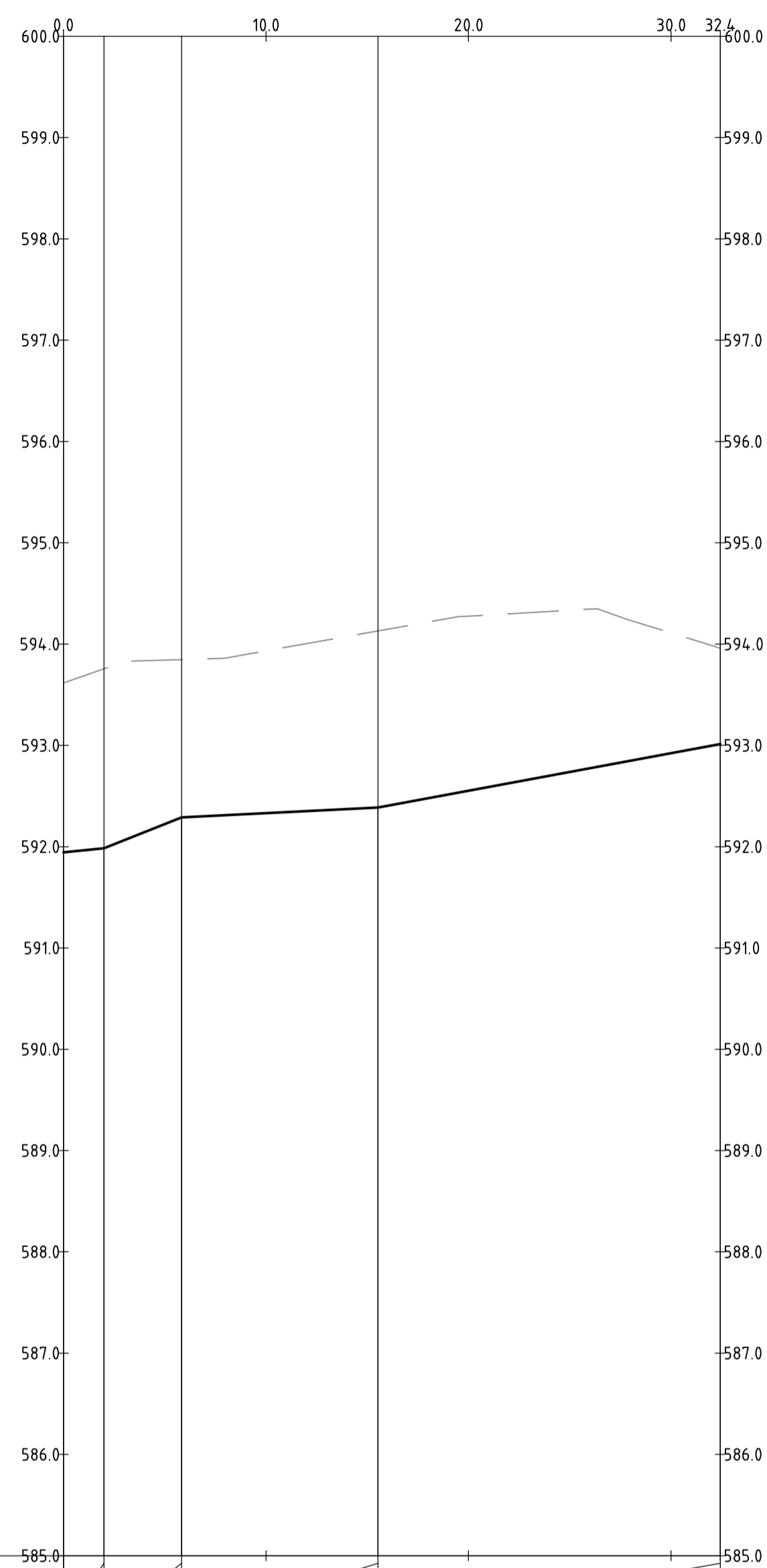


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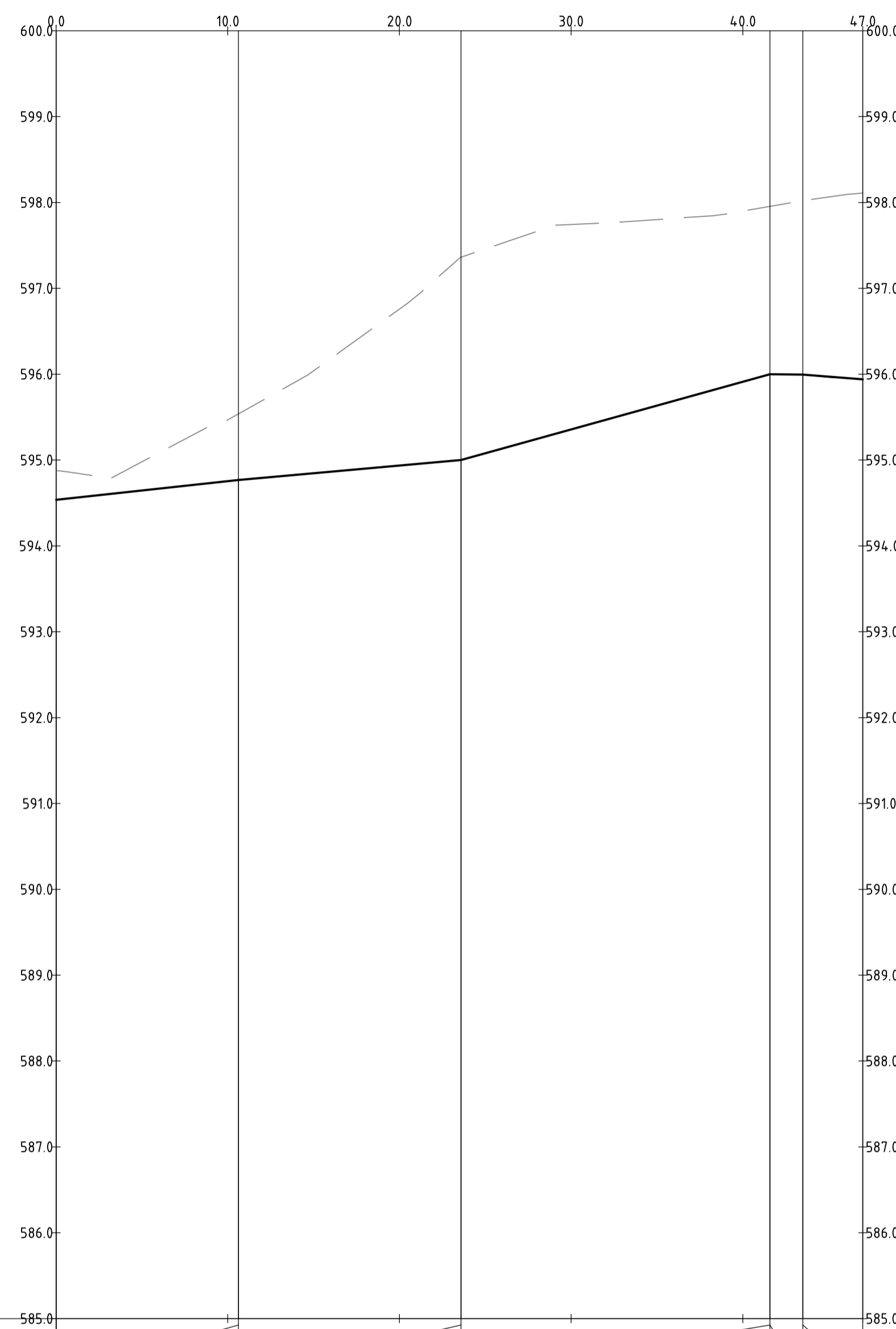
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|---------------------------------------|--------------|--------------------|------------|
| Status NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|---|------|------------|----------------|---------|-----|
| Project Name and Location RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title ROAD LONGITUDINAL SECTIONS | | | | | |
| SHEET 6 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0136 | A |



| | | | | | | | | |
|-----------------|------------------------------|---------|------------------|---------|------------------|---------|-------------------|---------|
| VERTICAL | G: 2.0% L: 2.000 | | G: 7.9% L: 3.834 | | G: 1.0% L: 9.700 | | G: 3.7% L: 16.896 | |
| HORIZONTAL | L: 32.430 B: 334° 41' 00" | | | | | | | |
| DESIGN LEVELS | 592.000 | 592.250 | 592.250 | 592.331 | 592.386 | 592.552 | 592.923 | 593.014 |
| EXISTING LEVELS | 593.616 | 593.756 | 593.848 | 593.933 | 594.130 | 594.276 | 594.110 | 593.960 |
| DEPTH | -1.617 | -1.772 | -1.558 | -1.602 | -1.743 | -1.724 | -1.187 | -0.947 |
| CHAINAGE | 0.000 | 2.000 | 5.834 | 10.000 | 15.534 | 20.000 | 30.000 | 32.430 |

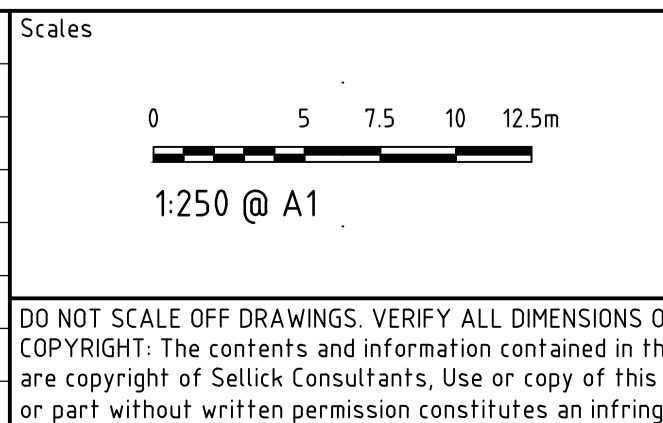
PROFILE OF ALIGNMENT AL-09
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 32.430



| | | | | | | | | | | |
|-----------------|------------------------------|---------|-------------------|---------|-------------------|---------|------------------|---------|-------------------|---------|
| VERTICAL | G: 2.2% L: 10.625 | | G: 1.8% L: 12.954 | | G: 5.6% L: 18.000 | | G: 0.2% L: 1.915 | | G: -1.6% L: 3.247 | |
| HORIZONTAL | L: 46.985 B: 334° 50' 24" | | | | | | | | | |
| DESIGN LEVELS | 594.500 | 594.753 | 594.753 | 594.767 | 594.936 | 595.000 | 595.357 | 595.912 | 596.000 | 595.996 |
| EXISTING LEVELS | 594.877 | 595.468 | 595.538 | 594.767 | 594.758 | 597.364 | 597.744 | 597.900 | 597.955 | 598.020 |
| DEPTH | -0.377 | -0.715 | -0.785 | -0.014 | -0.182 | -2.364 | -2.387 | -1.988 | -1.955 | -2.024 |
| CHAINAGE | 0.000 | 10.000 | 10.625 | 20.000 | 23.578 | 30.000 | 40.000 | 41.578 | 43.494 | 46.985 |

PROFILE OF ALIGNMENT AL-10
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 46.985

| | | | |
|-----|-----------------|------------|----------|
| Rev | Description | Date | Approved |
| A | FOR INFORMATION | 20.12.2019 | AM |

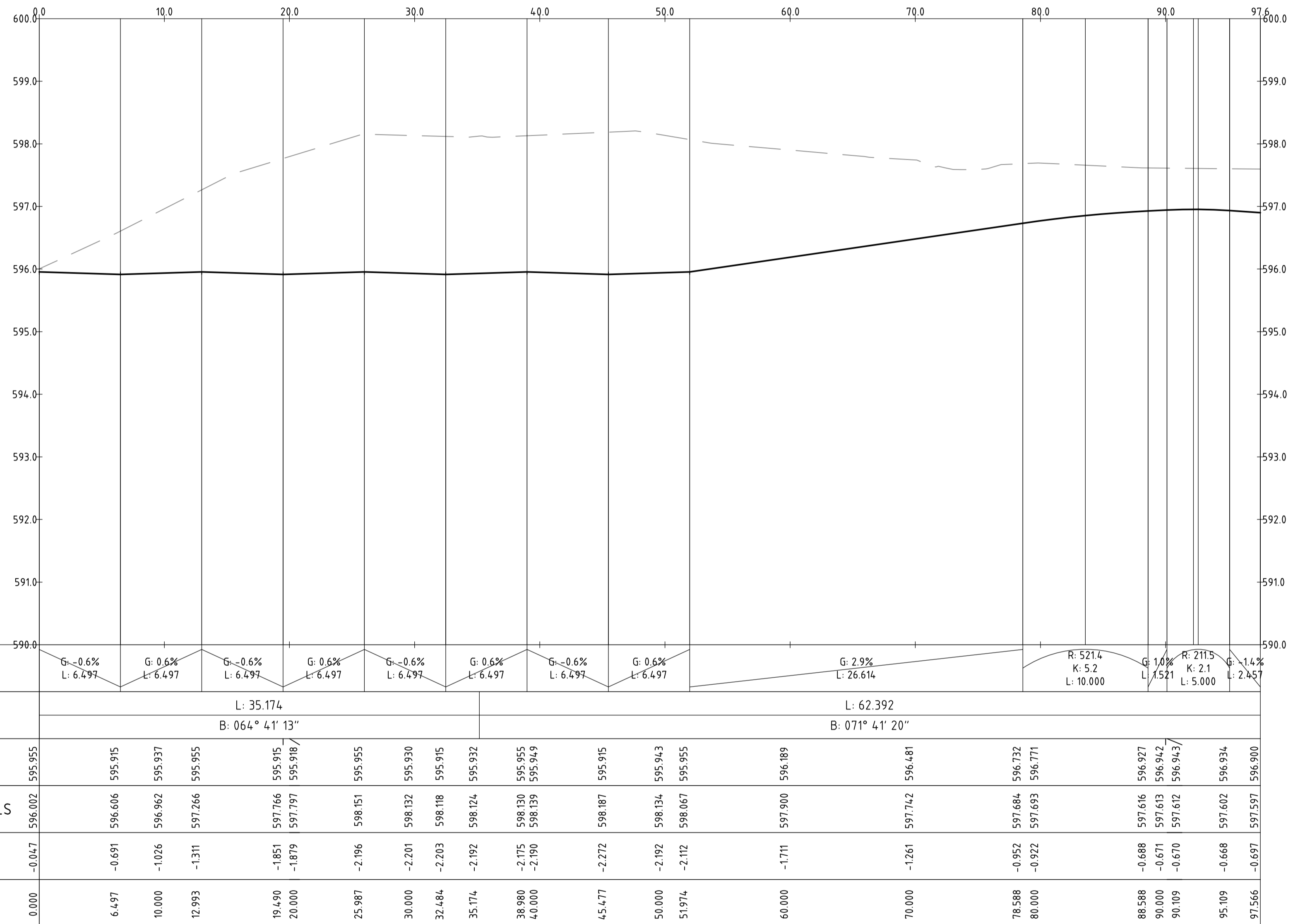


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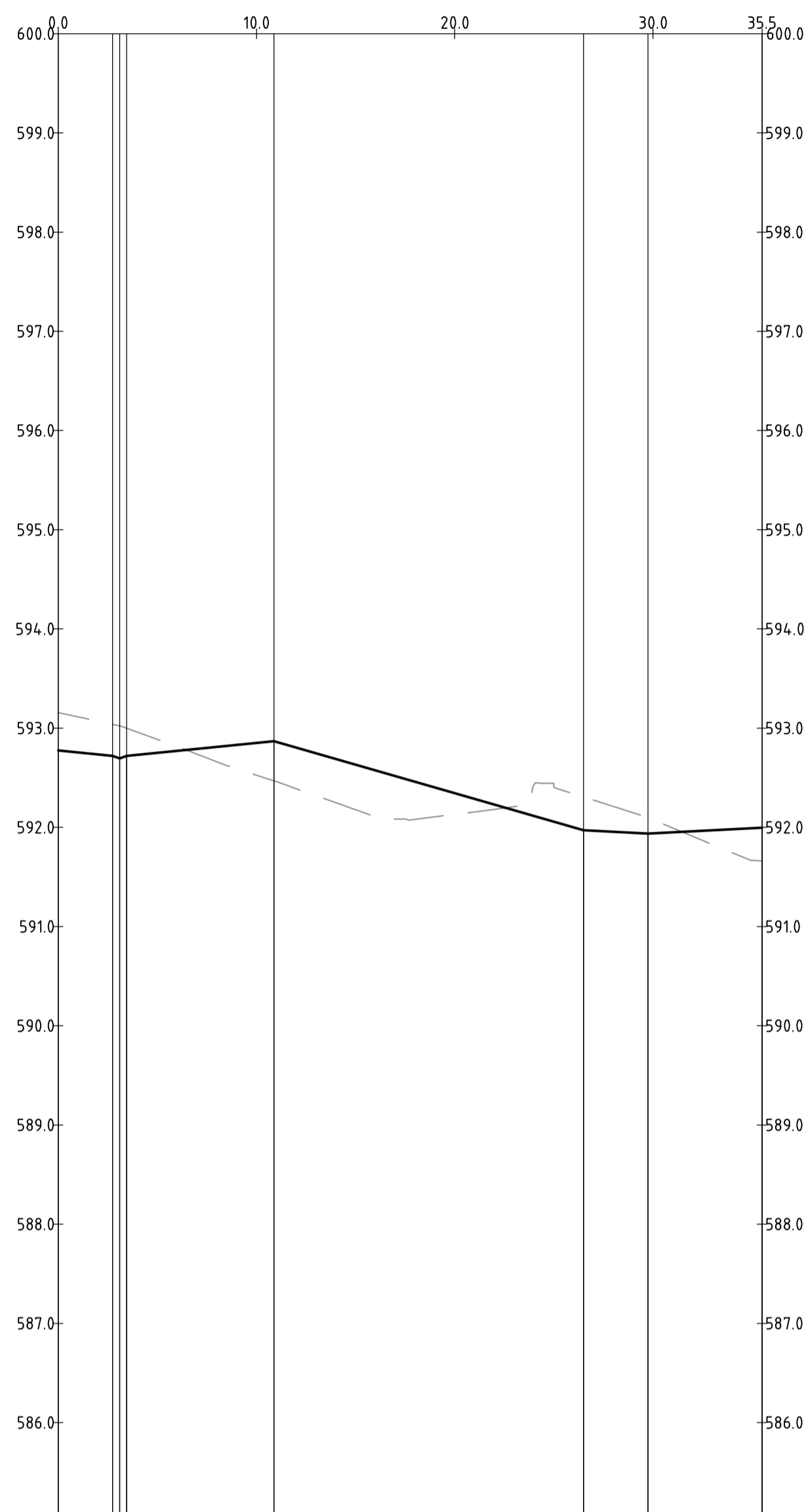
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|----------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| ROAD LONGITUDINAL SECTIONS | | | | | |
| SHEET 7 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0137 | A |



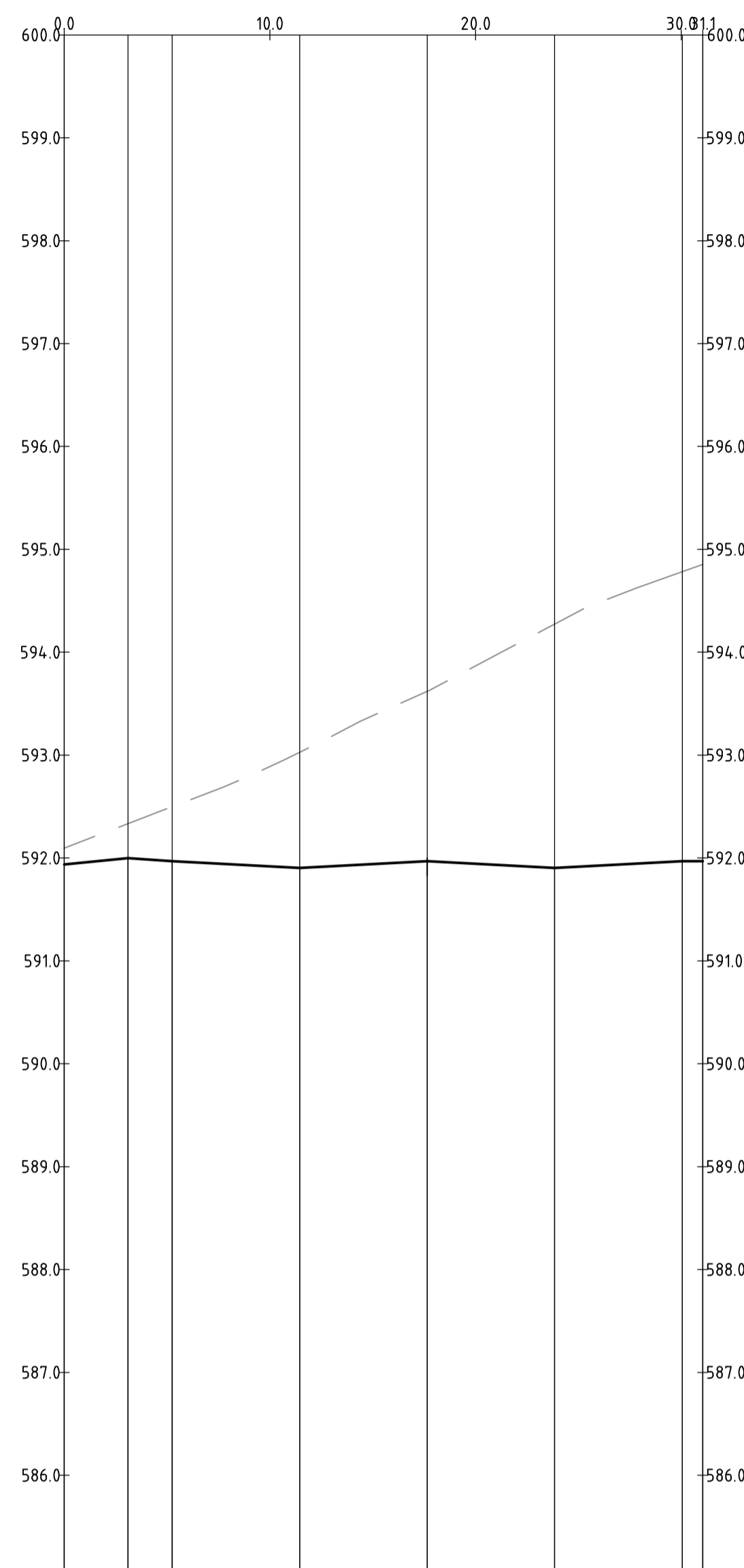
PROFILE OF ALIGNMENT AL-11
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 97.566

| | | | | | | | |
|--|--|--|-----------|-----------------------------------|-----------------|---------------------------------------|--|
| | | Scales 1:250 @ A1 | North | www.sellickconsultants.com.au | Client Logo | Status NOT FOR CONSTRUCTION | Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL |
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| | | | | | | Date Plotted 20-Dec-19 | Project Number 180658 |
| | | | | | | Date 20.12.2019 | Type DRG |
| | | | | | | Approved AM | Discipline CIV |
| | | | | | | Approved Date 24.08.2018 | Sub-Discipline AL |
| | | | | | | Approved Signature BC | Drg No. 0138 |
| | | | | | | | Rev A |



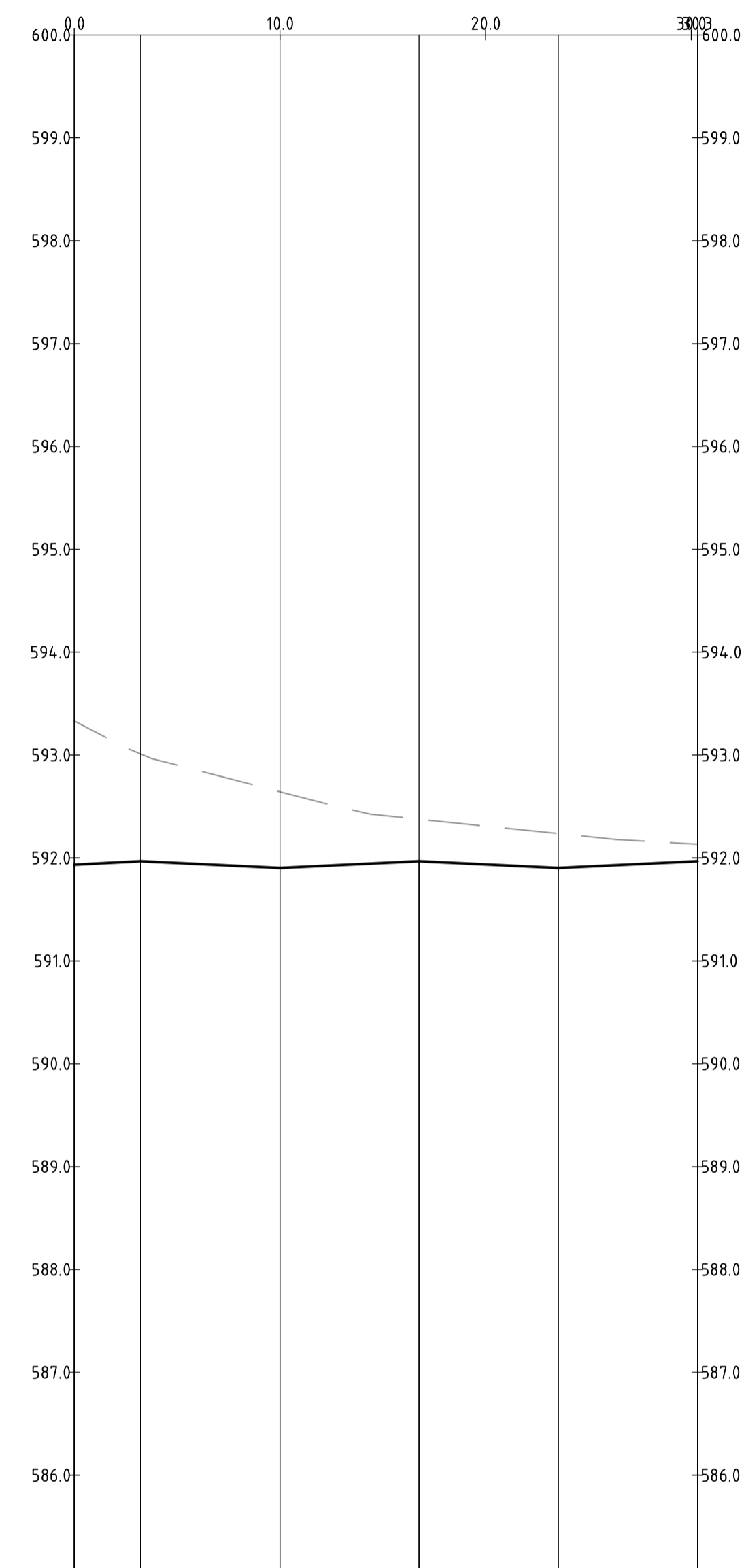
| | | | | | |
|-----------------|------------------------------|---------------------|-----------------------|----------------------|---------------------|
| VERTICAL | G: 2.0% L: 2.750 | G: 2.0% L: 7.437 | G: -5.8% L: 15.603 | G: -1.0% L: 3.254 | G: 1.0% L: 5.750 |
| HORIZONTAL | L: 35.495 B: 154° 41' 00" | | | | |
| DESIGN LEVELS | 592.775 | 592.720 | 592.695 | 592.851 | 592.344 |
| EXISTING LEVELS | 592.556 | 593.039 | 593.024 | 592.525 | 592.131 |
| DEPTH | -0.381 | -0.318 | -0.328 | 0.326 | 0.214 |
| CHAINAGE | 0.000 | 2.750 | 3.100 | 10.000 | 35.495 |

PROFILE OF ALIGNMENT AL-12
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 35.495



| | | | | | | |
|-----------------|------------------------------|----------------------|----------------------|---------------------|----------------------|---------------------|
| VERTICAL | G: 2.0% L: 3.100 | G: -1.4% L: 2.150 | G: -1.0% L: 6.200 | G: 1.0% L: 6.200 | G: -1.0% L: 6.200 | G: 1.0% L: 6.204 |
| HORIZONTAL | L: 31.050 B: 064° 41' 00" | | | | | |
| DESIGN LEVELS | 591.938 | 591.999 | 591.968 | 591.968 | 591.944 | 591.904 |
| EXISTING LEVELS | 592.096 | 592.333 | 592.498 | 592.889 | 592.027 | 591.904 |
| DEPTH | -0.158 | -0.334 | -0.530 | -0.970 | -1.123 | -1.051 |
| CHAINAGE | 0.000 | 3.100 | 5.250 | 11.450 | 17.650 | 31.050 |

PROFILE OF ALIGNMENT AL-13
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 31.050



| | | | | | |
|-----------------|------------------------------|----------------------|---------------------|----------------------|---------------------|
| VERTICAL | G: 1.0% L: 3.226 | G: -0.9% L: 6.768 | G: 0.9% L: 6.768 | G: -0.9% L: 6.768 | G: 0.9% L: 6.768 |
| HORIZONTAL | L: 30.300 B: 154° 41' 00" | | | | |
| DESIGN LEVELS | 591.935 | 591.968 | 591.904 | 591.968 | 591.965 |
| EXISTING LEVELS | 593.333 | 593.011 | 592.645 | 592.377 | 592.134 |
| DEPTH | -1.398 | -1.043 | -0.741 | -0.409 | -0.072 |
| CHAINAGE | 0.000 | 3.226 | 9.995 | 16.763 | 30.000 |

PROFILE OF ALIGNMENT AL-14
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 30.300

| | | | |
|-----|-----------------|------------|----------|
| Rev | Description | Date | Approved |
| A | FOR INFORMATION | 20.12.2019 | AM |

Scales

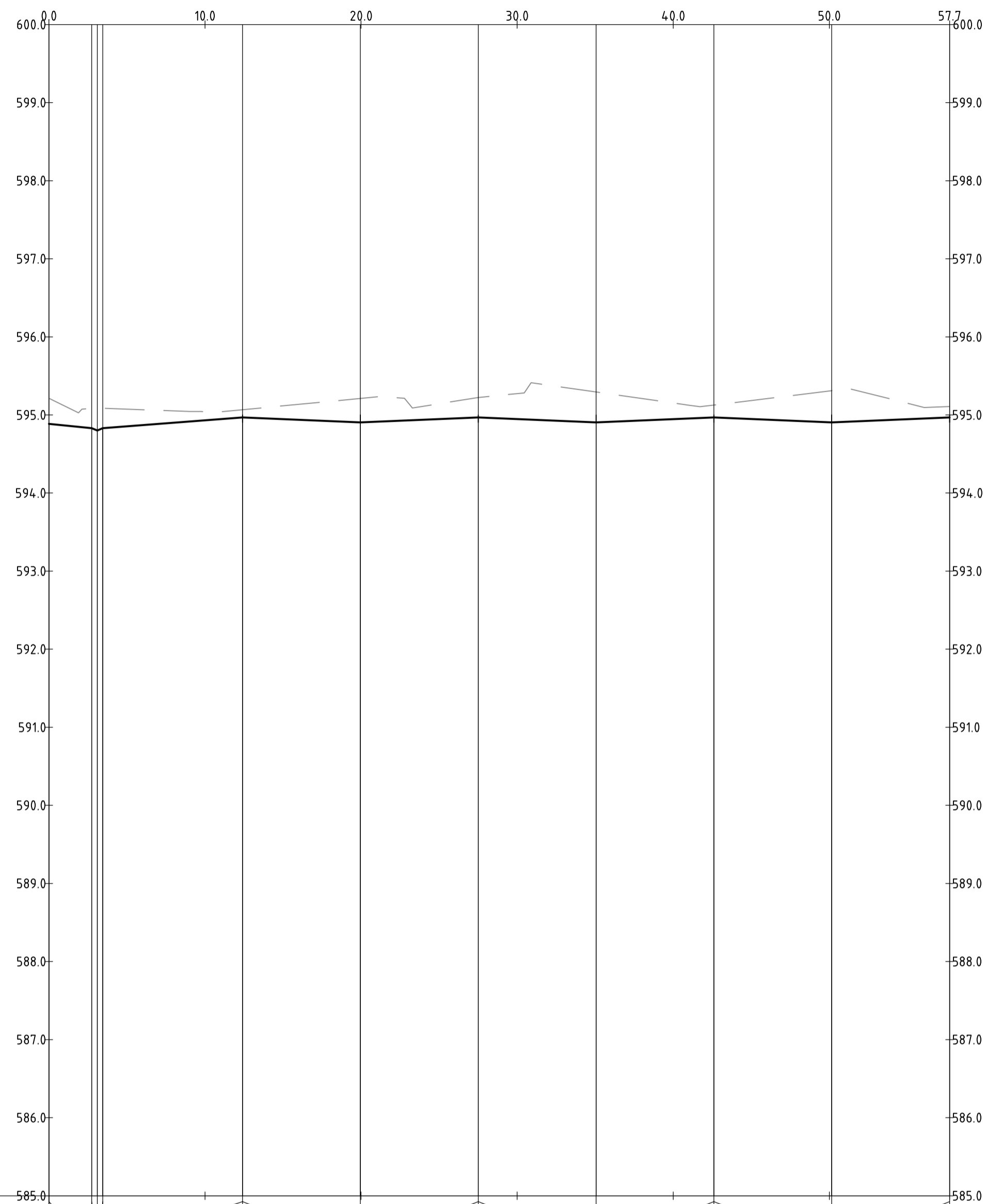
North

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Client Logo

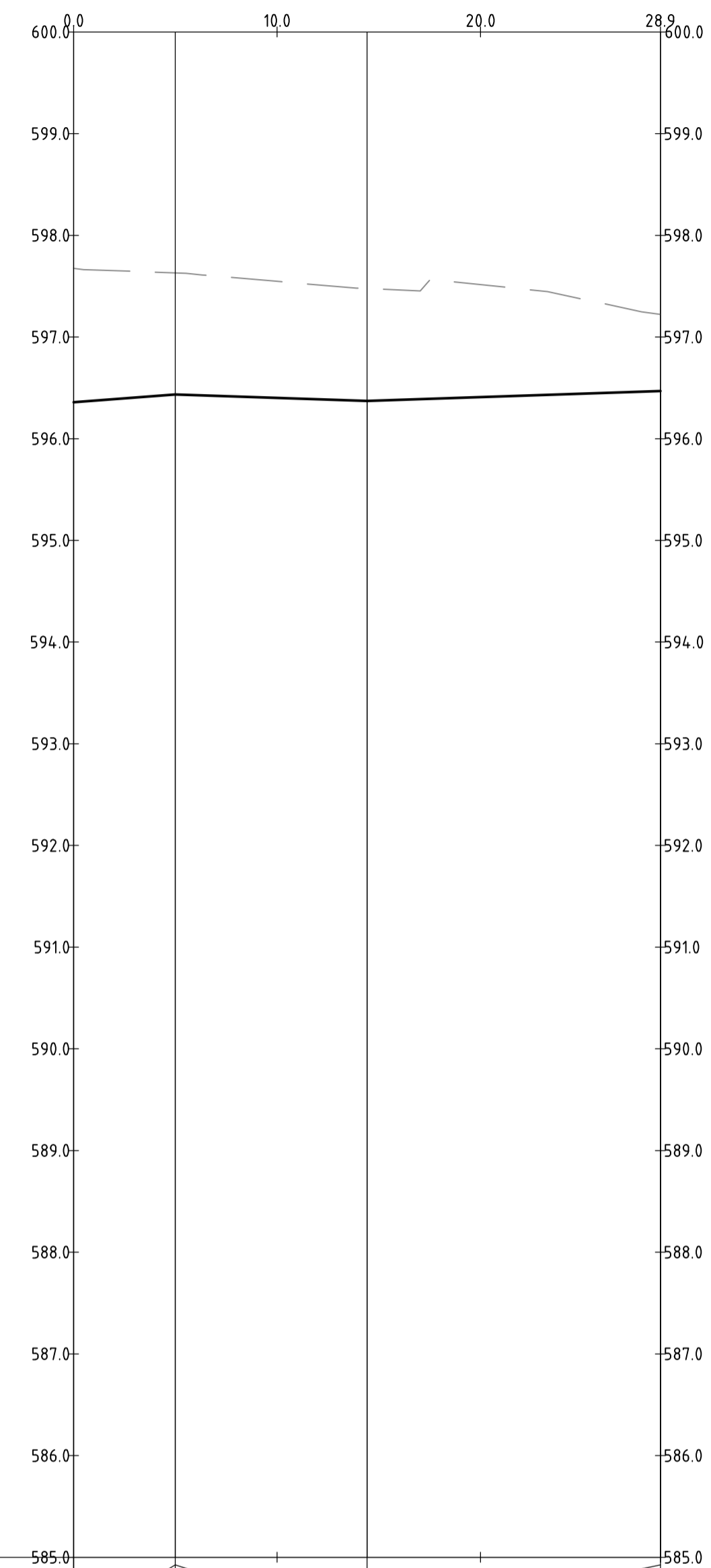
| | | | |
|-----------------------------|--------------|---------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |

| | | | | | | |
|------------------------------|------|------------|----------------|---------|-----|--|
| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| ROAD LONGITUDINAL SECTIONS | | | | | | |
| SHEET 9 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | AL | 0139 | A | |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-----------------------|--|--|--|--|--|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|--|--|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|--|--|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|--|--|--|--|--|--|------------------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|--|--|--|--|--|
| VERTICAL | G: -2.08% L: 2.608590 | | | | | | | | | | G: 1.5% L: 8.960 | | | | | | | | | | G: -0.8% L: 7.548 | | | | | | | | | | G: 0.8% L: 7.548 | | | | | | | | | | G: -0.8% L: 7.548 | | | | | | | | | | G: 0.8% L: 7.548 | | | | | | | | | | G: -0.8% L: 7.548 | | | | | | | | | | G: 0.8% L: 7.548 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DESIGN LEVELS | 594.885 | | | | | | | | | | 594.830 | | | | | | | | | | 594.800 | | | | | | | | | | 594.830 | | | | | | | | | | 594.931 | | | | | | | | | | 594.968 | | | | | | | | | | 594.904 | | | | | | | | | | 594.904 | | | | | | | | | | 594.968 | | | | | | | | | | 594.947 | | | | | | | | | | 594.904 | | | | | | | | | | 594.905 | | | | | | | | | | 594.904 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EXISTING LEVELS | 595.214 | | | | | | | | | | 595.084 | | | | | | | | | | 595.088 | | | | | | | | | | 595.085 | | | | | | | | | | 595.039 | | | | | | | | | | 595.067 | | | | | | | | | | 595.212 | | | | | | | | | | 595.212 | | | | | | | | | | 595.224 | | | | | | | | | | 595.273 | | | | | | | | | | 595.295 | | | | | | | | | | 595.154 | | | | | | | | | | 595.307 | | | | | | | | | | 595.310 | | | | | | | | | | 595.107 | | | | | | | | | | | | | | | | | | | |
| DEPTH | -0.328 | | | | | | | | | | -0.254 | | | | | | | | | | -0.288 | | | | | | | | | | -0.255 | | | | | | | | | | -0.108 | | | | | | | | | | -0.099 | | | | | | | | | | -0.308 | | | | | | | | | | -0.308 | | | | | | | | | | -0.256 | | | | | | | | | | -0.326 | | | | | | | | | | -0.391 | | | | | | | | | | -0.208 | | | | | | | | | | -0.401 | | | | | | | | | | -0.406 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHAINAGE | 0.000 | | | | | | | | | | 2.750 | | | | | | | | | | 3.100 | | | | | | | | | | 3.450 | | | | | | | | | | 10.000 | | | | | | | | | | 12.410 | | | | | | | | | | 19.958 | | | | | | | | | | 20.000 | | | | | | | | | | 27.506 | | | | | | | | | | 30.000 | | | | | | | | | | 35.054 | | | | | | | | | | 40.000 | | | | | | | | | | 42.602 | | | | | | | | | | 50.000 | | | | | | | | | | 50.150 | | | | | | | | | | 57.698 | | | | | | | | | |

PROFILE OF ALIGNMENT AL-15
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 57.698



| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------------------|--|--|--|-------------------|--|--|--|-------------------|--|--|--|---------|--|--|--|---------|--|--|--|---------|--|--|--|
| VERTICAL | G: 1.5% L: 5.000 | | | | G: -0.7% L: 9.425 | | | | G: 0.7% L: 14.425 | | | | | | | | | | | | | | | |
| HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | |
| DESIGN LEVELS | 596.359 | | | | 596.435 | | | | 596.401 | | | | 596.372 | | | | 596.409 | | | | 596.468 | | | |
| EXISTING LEVELS | 597.676 | | | | 597.631 | | | | 597.547 | | | | 597.477 | | | | 597.516 | | | | 597.221 | | | |
| DEPTH | -1.317 | | | | -1.196 | | | | -1.146 | | | | -1.105 | | | | -1.107 | | | | -0.753 | | | |
| CHAINAGE | 0.000 | | | | 5.000 | | | | 10.000 | | | | 14.425 | | | | 20.000 | | | | 28.850 | | | |

PROFILE OF ALIGNMENT AL-16
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 28.850

| | | | |
|-----|-----------------|------------|----------|
| Rev | Description | Date | Approved |
| A | FOR INFORMATION | 20.12.2019 | AM |

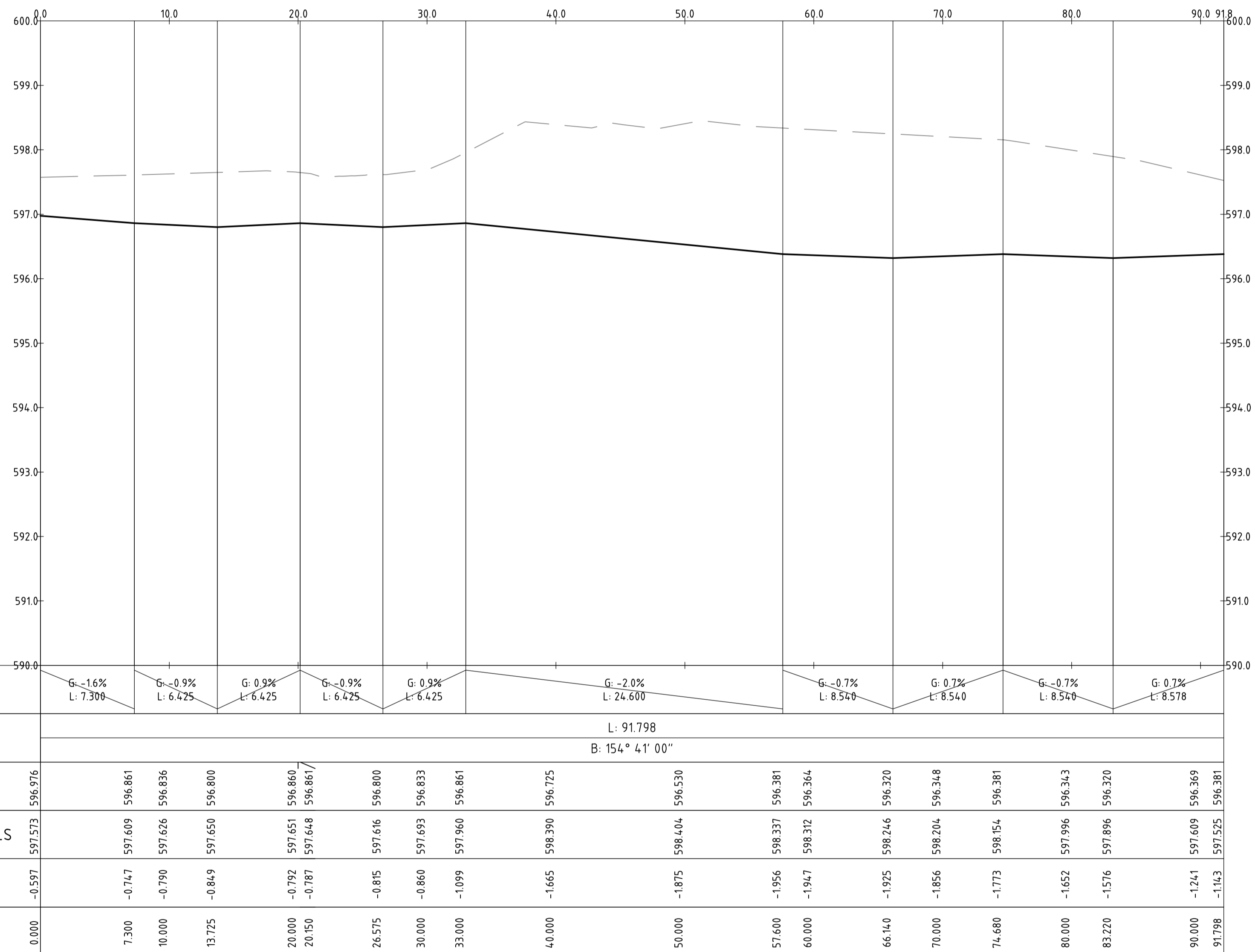
Scales

North

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|-------------------|--------------|--------------------|----|-----------------------------|------------|-------------------|--------------|
| Status | | | | NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT | Drafting Check | DCA | Date Plotted | 20-Dec-19 |
| Date Plotted | 20-Dec-19 | Designed By | LT | Design Check | AM | Coordinate System | STROMLO GRID |
| Coordinate System | STROMLO GRID | Approved | BC | Approved Date | 24.08.2018 | Height Datum | AHD |
| Height Datum | AHD | Approved Signature | | | | | |

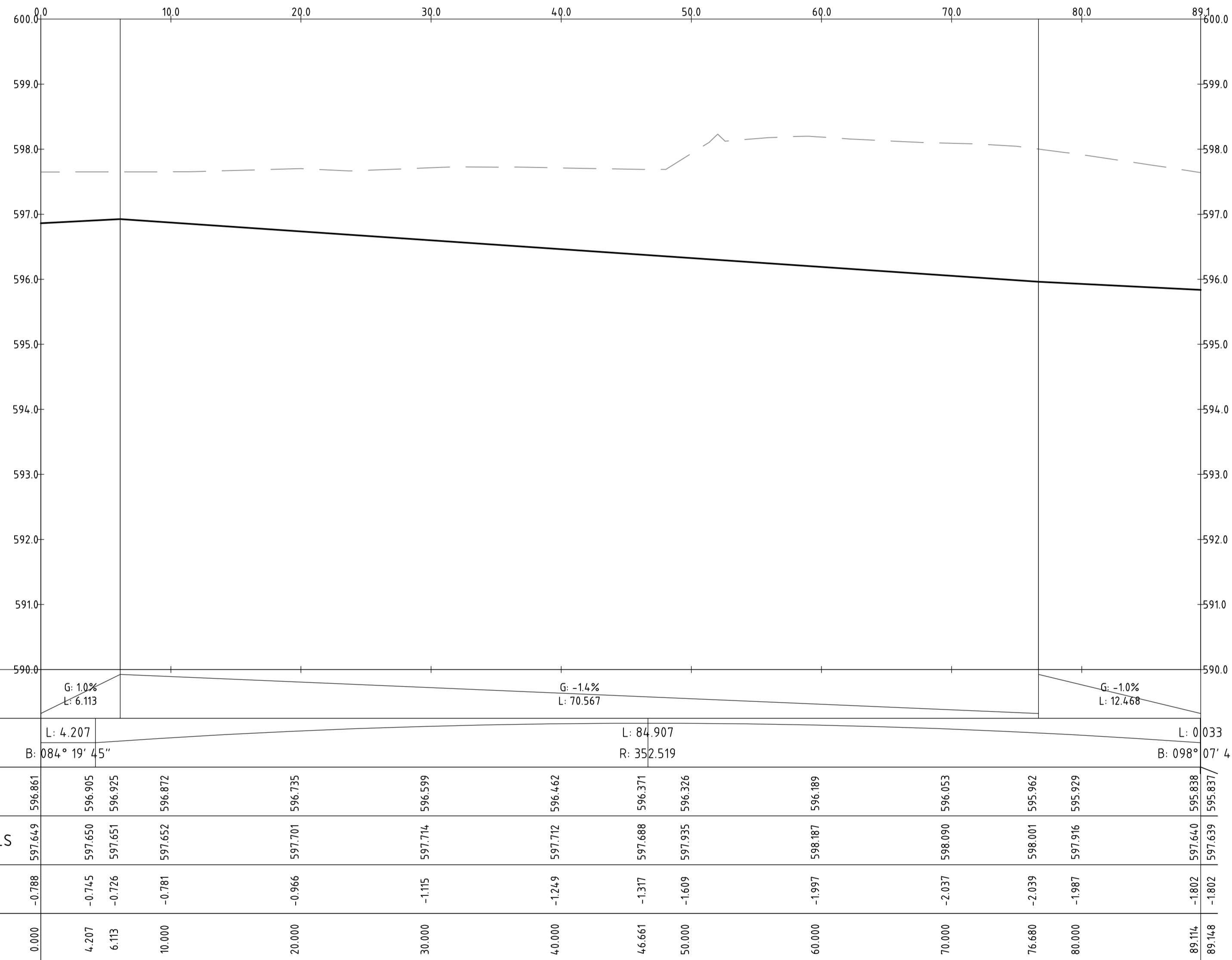
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|---------------------------|--------|------|-----|------------|-----|----------------|------------------------------|---------|------|-----|---|--|--|
| Project Name and Location | | | | | | | RESIDENTIAL DEVELOPMENT | | | | | | |
| | | | | | | | BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | | ROAD LONGITUDINAL SECTIONS | | | | | | |
| | | | | | | | SHEET 10 | | | | | | |
| Project Number | 180658 | Type | DRG | Discipline | CIV | Sub-Discipline | AL | Drg No. | 0140 | Rev | A | | |



PROFILE OF ALIGNMENT AL-17
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 91.798

| | | | | | | | | | | | |
|-------------------|-------------|--------------------------------|----------|---|--|--|--|--|--|---|--|
| | | Scales | | North | | Client Logo | | Status | | Project Name and Location | |
| | | 0 5 7.5 10 12.5m 1:250 @ A1 | | | |  www.sellickconsultants.com.au | | NOT FOR CONSTRUCTION Original Size: A1 Date Plotted: 20-Dec-19 Coordinate System: STROMLO GRID Height Datum: AHD | | RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL ROAD LONGITUDINAL SECTIONS SHEET 11 | |
| A FOR INFORMATION | | 20.12.2019 | | AM | | Drawn By: RT Designed By: LT Approved: BC Approved Date: 24.08.2018 Approved Signature: | | Drafting Check: DCA Design Check: AM | | Project Number: 180658 Type: DRG Discipline: CIV Sub-Discipline: AL Drg No.: 0141 Rev: A | |
| Rev | Description | Date | Approved | DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK. COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright. | | | | | | | |

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PROFILE OF ALIGNMENT AL-20
 (VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 89.148

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

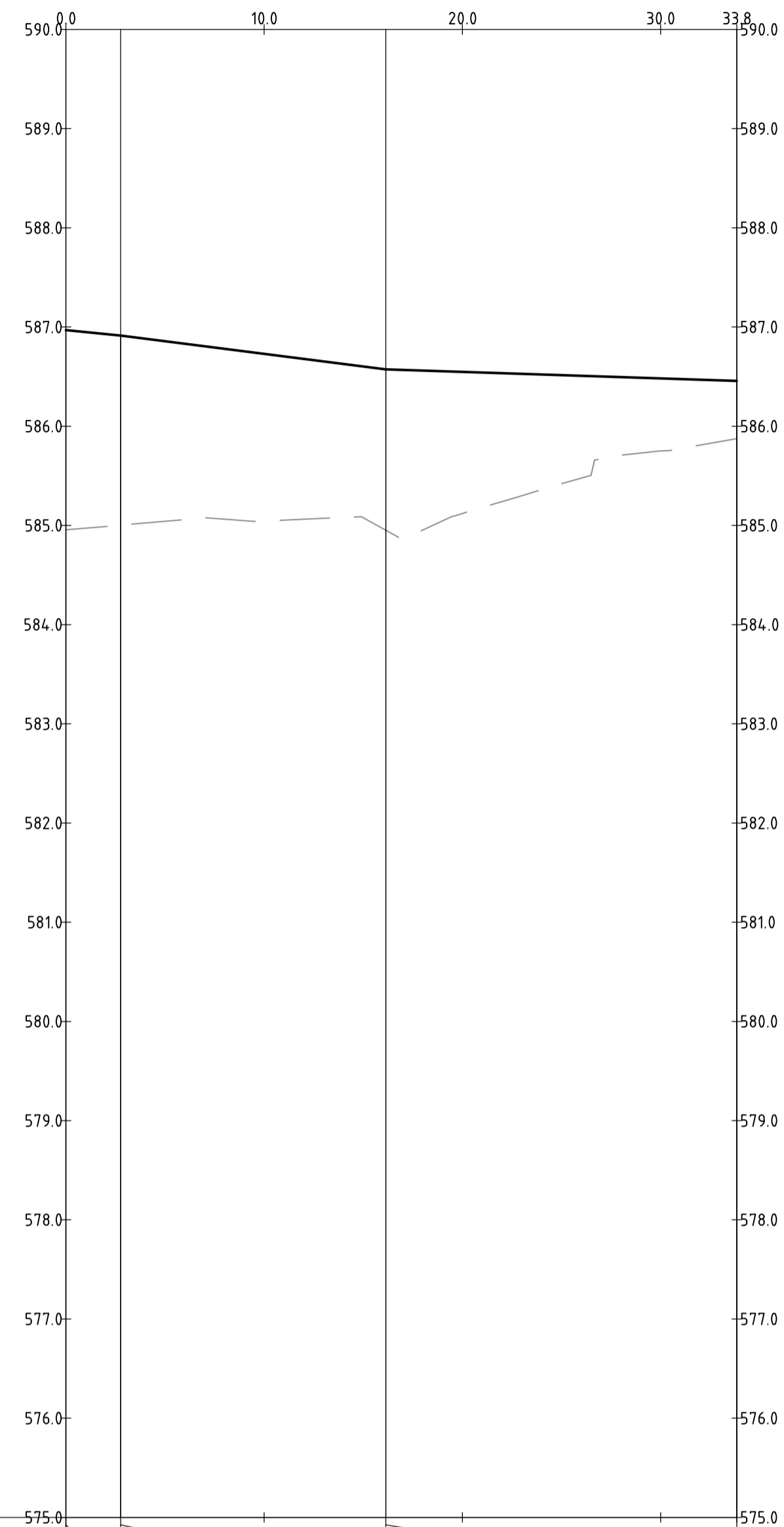
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Client Logo

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|----------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| ROAD LONGITUDINAL SECTIONS | | | | | |
| SHEET 12 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0142 | A |

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|-----------------|------------------------------|---------|-----------------------|---------|-----------------------|---------|
| VERTICAL | G: -2.0% L: 2.755 | | G: -2.5% L: 13.375 | | G: -0.7% L: 17.711 | |
| HORIZONTAL | L: 33.840 B: 109° 41' 00" | | | | | |
| DESIGN LEVELS | 586.969 | 586.914 | 586.729 | 586.573 | 586.482 | 586.457 |
| EXISTING LEVELS | 584.955 | 585.003 | 585.045 | 584.952 | 585.120 | 585.875 |
| DEPTH | 2.014 | 1.911 | 1.684 | 1.620 | 1.427 | 0.583 |
| CHAINAGE | 0.000 | 2.755 | 10.000 | 16.130 | 20.000 | 33.840 |

PROFILE OF ALIGNMENT AL-21
(VERT SCALE 1:50, HOR SCALE 1:250, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 33.840

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

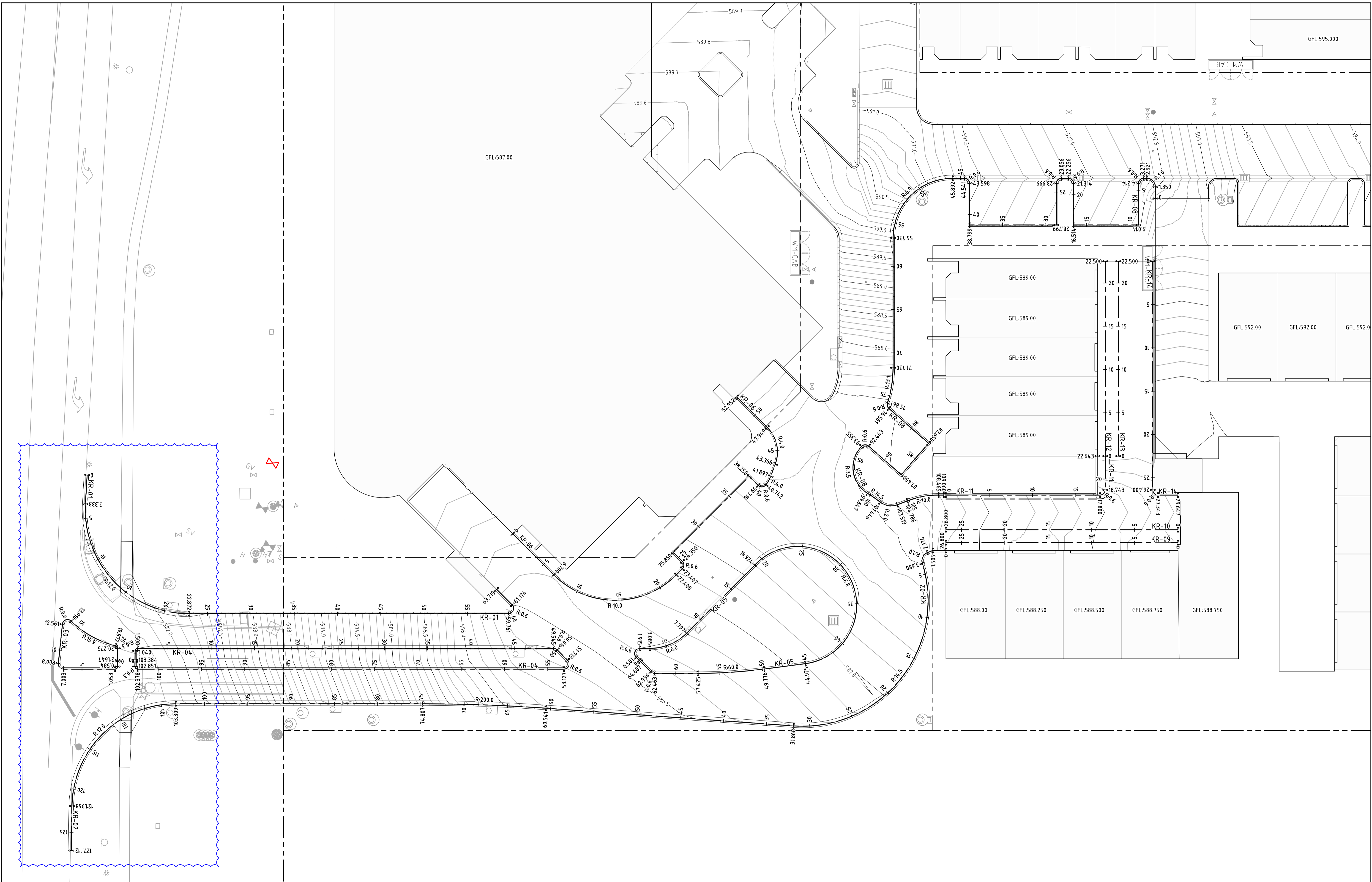
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Client Logo

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|-------------------|--------------|--------------------|----|-----------------------------|------------|-------------------|--------------|
| Status | | | | NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT | Drafting Check | DCA | Date Plotted | 20-Dec-19 |
| Date Plotted | 20-Dec-19 | Designed By | LT | Design Check | AM | Coordinate System | STROMLO GRID |
| Coordinate System | STROMLO GRID | Approved | BC | Approved Date | 24.08.2018 | Height Datum | AHD |
| Height Datum | AHD | Approved Signature | | | | | |

| | | | | | | |
|------------------------------|------|------------|----------------|---------|-----|--|
| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| ROAD LONGITUDINAL SECTIONS | | | | | | |
| SHEET 13 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | AL | 0143 | A | |

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| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

1:200 @ A1

North

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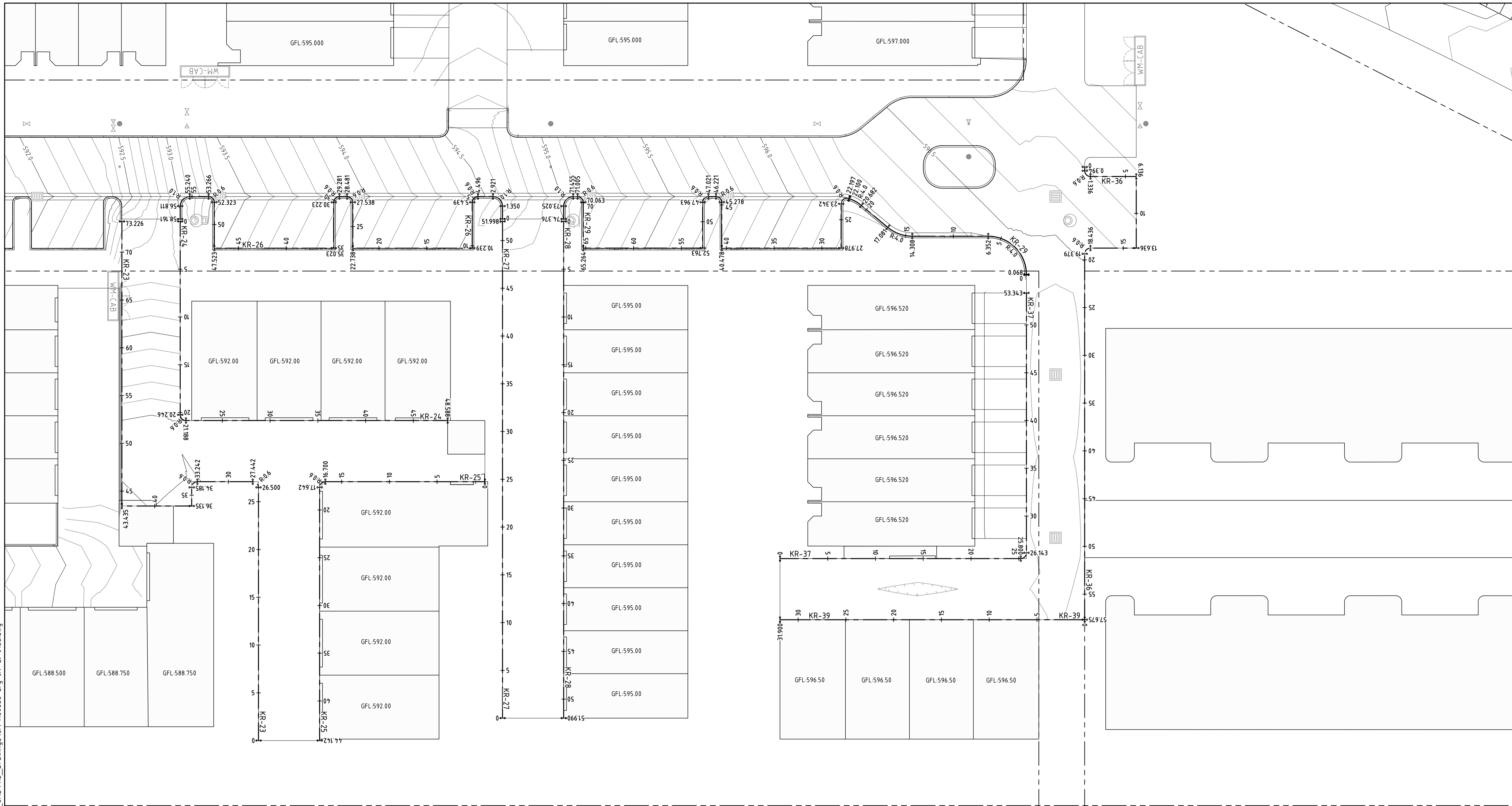
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Client Logo

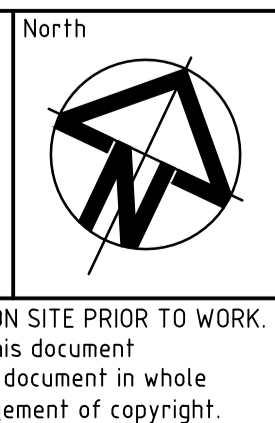
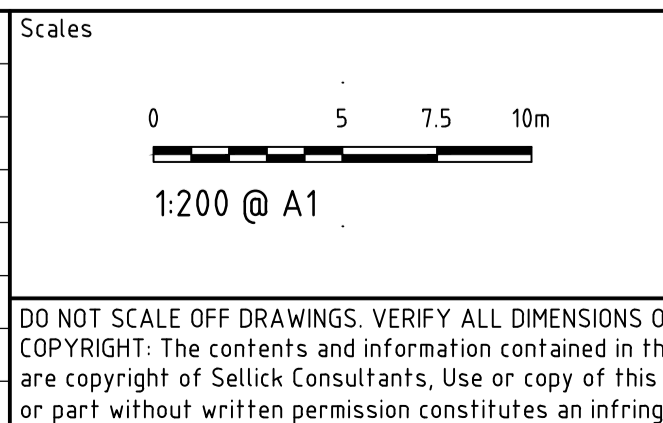
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|-------------------|-----------------------------|--------------------|------------|
| Status | NOT FOR CONSTRUCTION | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | | |
|------------------------------|------|------------|----------------|---------|-----|--|
| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| ALIGNMENT CONTROL - KERB | | | | | | |
| RETURNS SHEET 1 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Dwg No. | Rev | |
| 180658 | DRG | CIV | AL | 0151 | A | |

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| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |



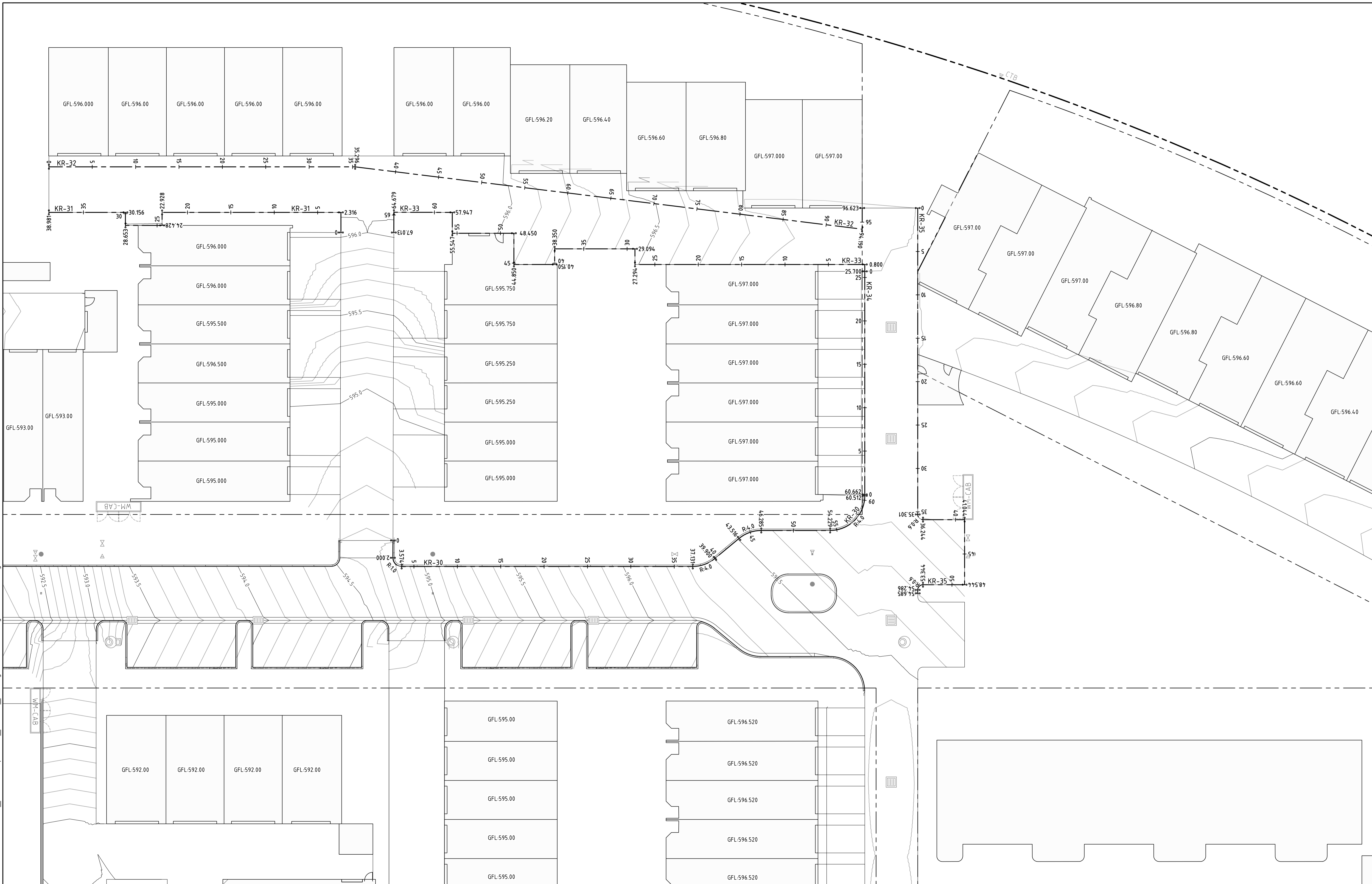
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| | | | |
|-------------------|-----------------------------|--------------------|------------|
| Status | NOT FOR CONSTRUCTION | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | | |
|------------------------------|------|------------|----------------|---------|-----|--|
| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| ALIGNMENT CONTROL - KERB | | | | | | |
| RETURNS SHEET 3 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | AL | 0153 | A | |

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| | | | |
|-----|-----------------|------------|----------|
| Rev | Description | Date | Approved |
| A | FOR INFORMATION | 20.12.2019 | AM |

Scales

1:200 @ A1

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Client Logo

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|-----------------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | | |
|------------------------------|------|------------|----------------|---------|-----|--|
| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| ALIGNMENT CONTROL - KERB | | | | | | |
| RETURNS SHEET 4 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Dwg No. | Rev | |
| 180658 | DRG | CIV | AL | 0154 | A | |

| KR-07 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|-----------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212265.295 | 604346.821 | | | |
| EP | 6.268 | 212271.201 | 604344.724 | 6.268 | | 109° 33' 05" |
| TP | 6.268 | 212271.201 | 604344.724 | | | |
| IP | 8.336 | 212273.150 | 604344.032 | 2.830 | 1.5 | 055° 30' 32.59" |
| TP | 9.097 | 212273.202 | 604346.099 | | | |
| TP | 9.097 | 212273.202 | 604346.099 | | | |
| IP | 10.740 | 212273.245 | 604347.741 | 3.225 | 6.9 | 348° 04' 29.93" |
| TP | 12.323 | 212272.542 | 604349.226 | | | |
| BP | 12.323 | 212272.542 | 604349.226 | 14.900 | | 334° 41' 00" |
| EP | 27.223 | 212266.170 | 604362.695 | | | |
| TP | 27.223 | 212266.170 | 604362.695 | | | |
| IP | 28.051 | 212265.816 | 604363.444 | 1.570 | 2.0 | 312° 11' 54.80" |
| TP | 28.793 | 212265.037 | 604363.723 | | | |
| BP | 28.793 | 212265.037 | 604363.723 | 10.904 | | 289° 42' 50" |
| EP | 39.697 | 212254.772 | 604367.401 | | | |
| TP | 39.697 | 212254.772 | 604367.401 | | | |
| IP | 42.697 | 212251.948 | 604368.413 | 4.712 | 3.0 | 244° 42' 49.63" |
| TP | 44.409 | 212250.936 | 604365.589 | | | |
| BP | 44.409 | 212250.936 | 604365.589 | 1.709 | | 199° 42' 50" |
| EP | 46.118 | 212250.360 | 604363.980 | | | |
| BP | 46.118 | 212250.360 | 604363.980 | 1.599 | | 289° 42' 50" |
| EP | 47.716 | 212248.855 | 604364.519 | | | |
| TP | 47.716 | 212248.855 | 604364.519 | 0.942 | 0.6 | 244° 42' 49.63" |
| IP | 48.316 | 212248.290 | 604364.722 | | | |
| TP | 48.659 | 212248.088 | 604364.157 | | | |
| BP | 48.659 | 212248.088 | 604364.157 | 4.800 | | 199° 42' 50" |
| EP | 53.459 | 212246.469 | 604359.638 | | | |
| BP | 53.459 | 212246.469 | 604359.638 | 5.000 | | 289° 42' 50" |
| EP | 58.459 | 212241.762 | 604361.325 | | | |
| BP | 58.459 | 212241.762 | 604361.325 | 4.800 | | 019° 42' 50" |
| EP | 63.259 | 212243.381 | 604365.844 | | | |
| TP | 63.259 | 212243.381 | 604365.844 | 0.942 | 0.6 | 334° 42' 49.63" |
| IP | 63.859 | 212243.583 | 604366.408 | | | |
| TP | 64.201 | 212243.018 | 604366.611 | | | |
| BP | 64.201 | 212243.018 | 604366.611 | 0.800 | | 289° 42' 50" |
| EP | 65.001 | 212242.265 | 604366.881 | | | |
| TP | 65.001 | 212242.265 | 604366.881 | 0.942 | 0.6 | 244° 42' 49.63" |
| IP | 65.601 | 212241.701 | 604367.083 | | | |
| TP | 65.944 | 212241.498 | 604366.518 | | | |
| BP | 65.944 | 212241.498 | 604366.518 | 4.800 | | 199° 42' 50" |
| EP | 70.744 | 212239.879 | 604362.000 | | | |
| BP | 70.744 | 212239.879 | 604362.000 | 5.000 | | 289° 42' 50" |
| EP | 75.744 | 212235.172 | 604363.686 | | | |
| BP | 75.744 | 212235.172 | 604363.686 | 4.800 | | 019° 42' 50" |
| EP | 80.544 | 212236.791 | 604368.205 | | | |
| TP | 80.544 | 212236.791 | 604368.205 | 0.942 | 0.6 | 334° 42' 49.63" |
| IP | 81.144 | 212236.994 | 604368.770 | | | |
| TP | 81.486 | 212236.429 | 604368.972 | | | |
| BP | 81.486 | 212236.429 | 604368.972 | 0.799 | | 289° 42' 50" |
| EP | 82.285 | 212235.676 | 604369.242 | | | |

| KR-08 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|-----------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212297.178 | 604382.509 | | | |
| EP | 1.350 | 212296.600 | 604383.729 | 1.350 | | 334° 41' 00" |
| TP | 1.350 | 212296.600 | 604383.729 | | | |
| IP | 2.350 | 212296.173 | 604384.633 | 1.571 | 1.0 | 289° 40' 52.79" |
| TP | 2.921 | 212295.269 | 604384.205 | | | |
| BP | 2.921 | 212295.269 | 604384.205 | 0.350 | | 244° 40' 46" |
| EP | 3.271 | 212294.952 | 604384.055 | | | |
| TP | 3.271 | 212294.952 | 604384.055 | 0.942 | 0.6 | 199° 40' 45.58" |
| IP | 3.871 | 212294.410 | 604383.799 | | | |
| TP | 4.214 | 212294.666 | 604383.256 | | | |
| BP | 4.214 | 212294.666 | 604383.256 | 4.800 | | 154° 40' 46" |
| EP | 9.014 | 212294.719 | 604378.917 | | | |
| BP | 9.014 | 212294.719 | 604378.917 | 7.500 | | 244° 40' 46" |
| EP | 16.514 | 212289.940 | 604375.710 | | | |
| BP | 16.514 | 212289.940 | 604375.710 | 4.800 | | 334° 40' 46" |
| EP | 21.314 | 212287.887 | 604380.049 | | | |
| TP | 21.314 | 212287.887 | 604380.049 | 0.942 | 0.6 | 289° 40' 45.58" |
| IP | 21.914 | 212287.630 | 604380.591 | | | |
| TP | 22.256 | 212287.088 | 604380.334 | | | |
| BP | 22.256 | 212287.088 | 604380.334 | 0.800 | | 244° 40' 46" |
| EP | 23.056 | 212286.365 | 604379.992 | | | |
| TP | 23.056 | 212286.365 | 604379.992 | 0.942 | 0.6 | 199° 40' 45.58" |
| IP | 23.656 | 212285.822 | 604379.736 | | | |
| TP | 23.999 | 212286.079 | 604379.193 | | | |
| BP | 23.999 | 212286.079 | 604379.193 | 4.800 | | 154° 40' 46" |
| EP | 28.799 | 212288.132 | 604374.854 | | | |
| BP | 28.799 | 212288.132 | 604374.854 | 10.000 | | 244° 41' 00" |
| EP | 38.799 | 212279.092 | 604370.578 | | | |
| BP | 38.799 | 212279.092 | 604370.578 | 4.799 | | 334° 40' 46" |
| EP | 43.598 | 212277.040 | 604374.916 | | | |
| TP | 43.598 | 212277.040 | 604374.916 | 0.942 | 0.6 | 289° 40' 52.78" |
| IP | 44.198 | 212276.783 | 604375.459 | | | |
| TP | 44.541 | 212276.241 | 604375.202 | | | |
| BP | 44.541 | 212276.241 | 604375.202 | 1.351 | | 244° 41' 00" |
| EP | 45.892 | 212275.019 | 604374.624 | | | |
| TP | 45.892 | 212275.019 | 604374.624 | 10.839 | 6.9 | 199° 40' 59.98" |
| IP | 52.792 | 212268.782 | 604371.674 | | | |
| TP | 56.730 | 212271.732 | 604365.436 | | | |
| BP | 56.730 | 212271.732 | 604365.436 | 14.999 | | 154° 41' 00" |
| EP | 71.730 | 212278.147 | 604351.877 | | | |
| TP | 71.730 | 212278.147 | 604351.877 | 4.131 | 13.1 | 163° 43' 04.05" |
| IP | 73.813 | 212279.037 | 604349.994 | | | |
| TP | 75.861 | 212279.300 | 604347.928 | | | |
| BP | 75.861 | 212279.300 | 604347.928 | 0.699 | 0.6 | 139° 21' 32.66" |
| EP | 76.257 | 212279.350 | 604347.536 | | | |
| TP | 76.561 | 212279.730 | 604347.427 | | | |
| BP | 76.561 | 212279.730 | 604347.427 | 6.089 | | 105° 57' 57" |
| EP | 82.650 | 212285.584 | 604345.752 | | | |
| BP | 82.650 | 212285.584 | 604345.752 | 4.800 | | 195° 57' 57" |
| EP | 87.450 | 212284.264 | 604341.137 | | | |
| BP | 87.450 | 212284.264 | 604341.137 | 4.993 | | 285° 57' 57" |
| EP | 92.443 | 212279.464 | 604342.511 | | | |
| TP | 92.443 | 212279.464 | 604342.511 | 0.912 | 0.6 | 242° 25' 08.72" |
| IP | 93.013 | 212278.915 | 604342.668 | | | |
| TP | 93.355 | 212278.731 | 604342.128 | | | |
| BP | 93.355 | 212278.731 | 604342.128 | 6.292 | 3.5 | 147° 22' 23.82" |
| EP | 99.647 | 212281.684 | 604337.514 | | | |
| TP | 99.647 | 212281.684 | 604337.514 | 1.800 | 14.5 | 099° 25' 52.63" |
| IP | 100.548 | 212282.581 | 604337.422 | | | |
| TP | 101.446 | 212283.459 | 604337.219 | | | |
| BP | 101.446 | 212283.459 | 604337.219 | 2.073 | 2.0 | 073° 17' 41.35" |
| EP | 102.587 | 212284.570 | 604336.963 | | | |
| TP | 103.519 | 212285.357 | 604337.789 | | | |
| BP | 103.519 | 212285.357 | 604337.789 | 1.266 | | 043° 36' 05" |
| EP | 104.786 | 212286.230 | 604338.706 | | | |
| TP | 104.786 | 212286.230 | 604338.706 | 3.680 | 10.0 | 054° 08' 32.43" |
| IP | 106.646 | 212287.513 | 604340.053 | | | |
| TP | 108.465 | 212289.195 | 604340.849 | | | |
| BP | 108.465 | 212289.195 | 604340.849 | 0.595 | | 064° 41' 00" |
| EP | 109.060 | 212289.733 | 604341.104 | | | |

| KR-09 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212316.528 | 604347.695 | | | |
| EP | 26.800 | 212292.302 | 604336.235 | 26.800 | | 244° 41' 00" |

| KR-10 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212315.887 | 604349.051 | | | |
| EP | 26.800 | 212291.661 | 604337.590 | 26.800 | | 244° 41' 00" |

| KR-11 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|-----------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212289.950 | 604341.206 | | | |
| EP | 17.800 | 212306.041 | 604348.818 | 17.800 | | 064° 41' 00" |
| TP | 17.800 | 212306.041 | 604348.818 | | | |
| IP | 18.400 | 212306.583 | 604349.075 | 0.942 | 0.6 | 019° 41' 00.00" |
| TP | 18.743 | 212306.326 | 604349.617 | | | |
| BP | 18.743 | 212306.326 | 604349.617 | 3.900 | | 334° 41' 00" |
| EP | 22.643 | 212304.659 | 604353.142 | | | |

| KR-12 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212304.659 | 604353.142 | | | |
| EP | 22.500 | 212295.037 | 604373.482 | 22.500 | | 334° 41' 00" |

| KR-13 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|--------------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212306.015 | 604353.784 | | | |
| EP | 22.500 | 212296.393 | 604374.123 | 22.500 | | 334° 41' 00" |

| KR-14 SETOUT | | | | | | |
|--------------|----------|------------|------------|--------|--------|---------|
| CODE | CHAINAGE | EASTING | NORTHING | LENGTH | RADIUS | BEARING |
| BP | 0.000 | 212300.004 | 604375.831 | | | |
| EP | 26.400 | 212311.294 | 604351.967 | 26.400 | | 154° 4 |

KR-15 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 15 rows of data points.

KR-19 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 10 rows of data points.

KR-24 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 10 rows of data points.

KR-20 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 3 rows of data points.

KR-25 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 10 rows of data points.

KR-21 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 10 rows of data points.

KR-26 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 19 rows of data points.

KR-22 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 15 rows of data points.

KR-16 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 10 rows of data points.

KR-23 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 20 rows of data points.

KR-26 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 29 rows of data points.

KR-17 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 2 rows of data points.

KR-18 SETOUT table with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING. Contains 2 rows of data points.

Revision table with columns: Rev, Description, Date, Approved. Includes header row and one revision entry.

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Status: NOT FOR CONSTRUCTION. Original Size: A1. Drawn By: RT. Drafting Check: DCA. Date Plotted: 20-Dec-19. Designed By: LT. Design Check: AM. Coordinate System: STROMLO GRID. Approved: BC. Approved Date: 24.08.2018. Height Datum: AHD. Approved Signature.

Project Name and Location: RESIDENTIAL DEVELOPMENT. BLOCK 4 SECTION 38, CAMPBELL. Drawing Title: KERB RETURN SETOUT TABLES SHEET 3. Project Number: 180658. Type: DRG. Discipline: CIV. Sub-Discipline: AL. Drg No.: 0163. Rev: A.

Table KR-27 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-28 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-29 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-30 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-31 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-32 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-33 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-34 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-35 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-36 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-37 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

Table KR-39 SETOUT with columns: CODE, CHAINAGE, EASTING, NORTHING, LENGTH, RADIUS, BEARING

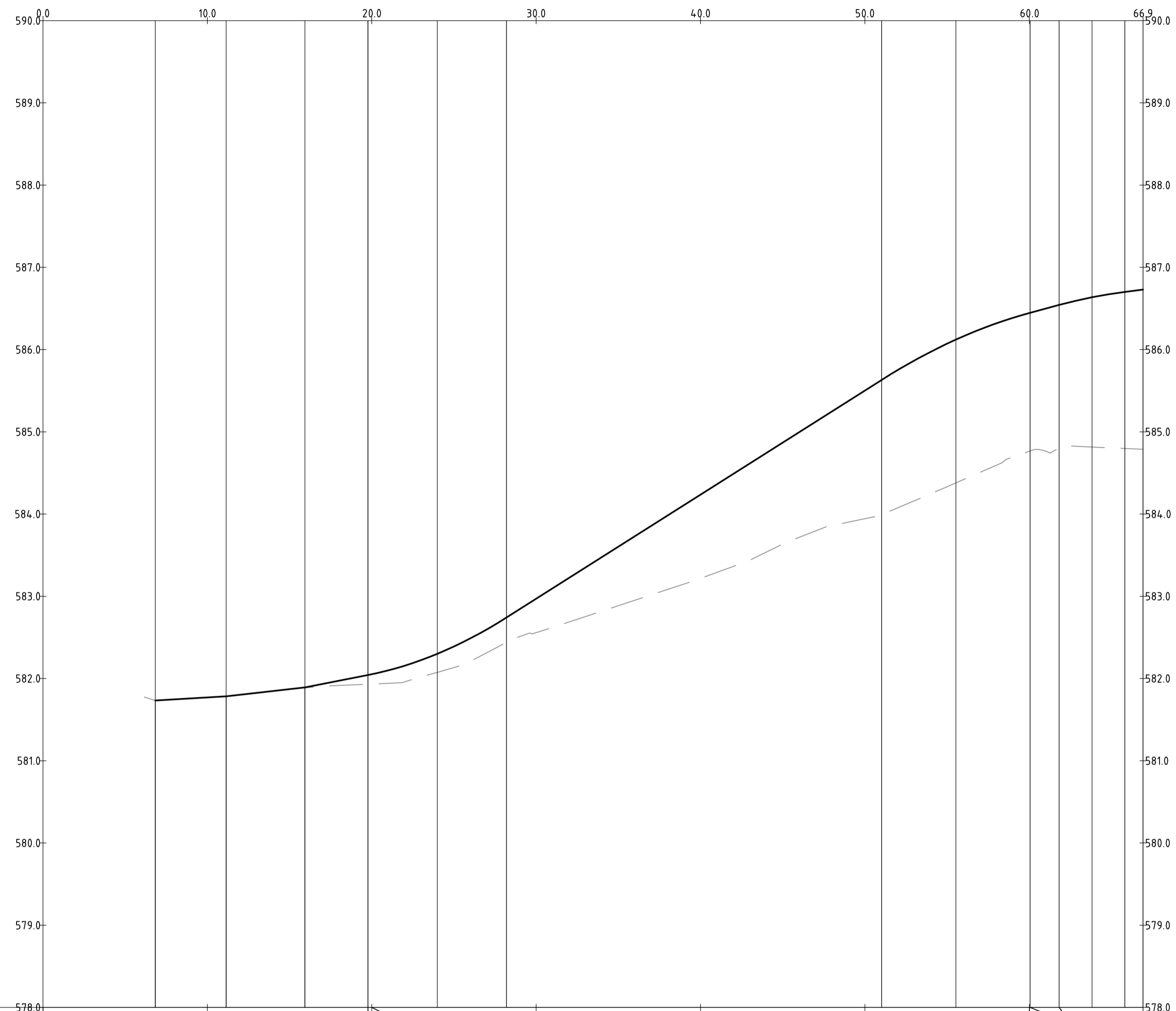
Table with columns: Rev, Description, Date, Approved

Table with columns: Scales, North



Status: NOT FOR CONSTRUCTION. Includes Original Size (A1), Date Plotted (20-Dec-19), Coordinate System (STROMLO GRID), and other technical details.

Project Name and Location: RESIDENTIAL DEVELOPMENT. Includes Drawing Title (KERB RETURN SETOUT TABLES SHEET 4) and Project Information (180658, DRG, CIV, AL).



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|-----------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| DESIGN LEVELS | 0.000 | 6.838 | 10.000 | 11.149 | 15.940 | 19.770 | 20.000 | 23.984 | 28.199 | 30.000 | 40.000 | 50.000 | 51.078 | 55.532 | 60.000 | 61.815 | 63.815 | 65.815 | 66.919 |
| EXISTING LEVELS | | 581.733 | 581.769 | 581.784 | 581.887 | 582.042 | 582.052 | 582.075 | 582.437 | 582.558 | 583.217 | 583.944 | 583.992 | 584.378 | 584.764 | 584.768 | 584.815 | 584.798 | 584.788 |
| DEPTH | | 0.000 | 0.002 | 0.000 | 0.005 | 0.112 | 0.109 | 0.225 | 0.305 | 0.412 | 1.019 | 1.558 | 1.639 | 1.743 | 1.680 | 1.679 | 1.739 | 1.821 | 1.904 |
| CHAINAGE | 0.000 | 6.838 | 10.000 | 11.149 | 15.940 | 19.770 | 20.000 | 23.984 | 28.199 | 30.000 | 40.000 | 50.000 | 51.078 | 55.532 | 60.000 | 61.815 | 63.815 | 65.815 | 66.919 |

PROFILE OF ALIGNMENT KR-01
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 66.919

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

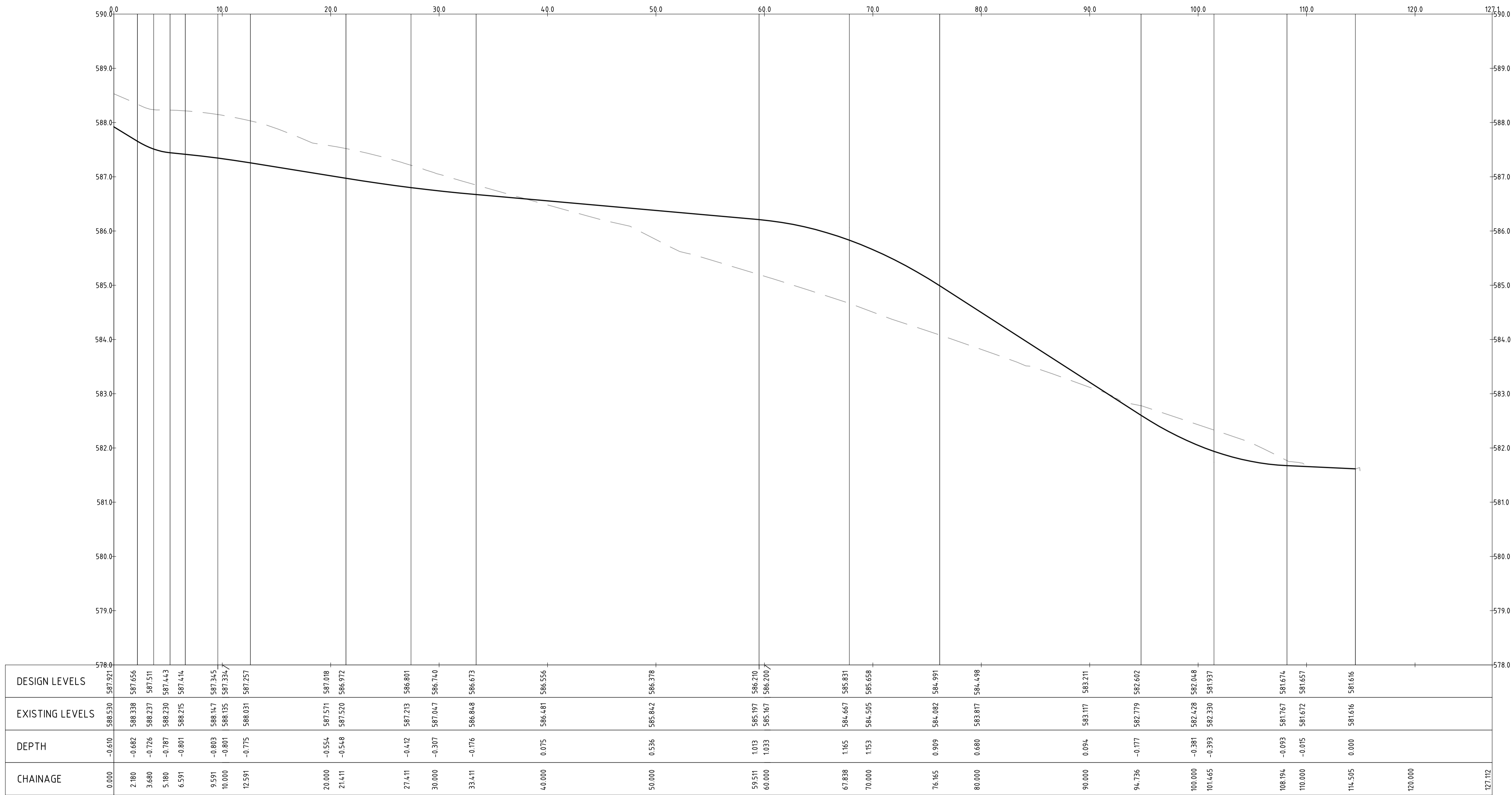
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| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Drafting Check | DCA |
| Height Datum | AHD | Design Check | AM |
| | | Approved | BC |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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|------------------------------|------|------------|----------------|---------|-----|--|
| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| KERB RETURN LONGITUDINAL | | | | | | |
| SECTIONS SHEET 1 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | AL | 0171 | A | |



PROFILE OF ALIGNMENT KR-02
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 127.112

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

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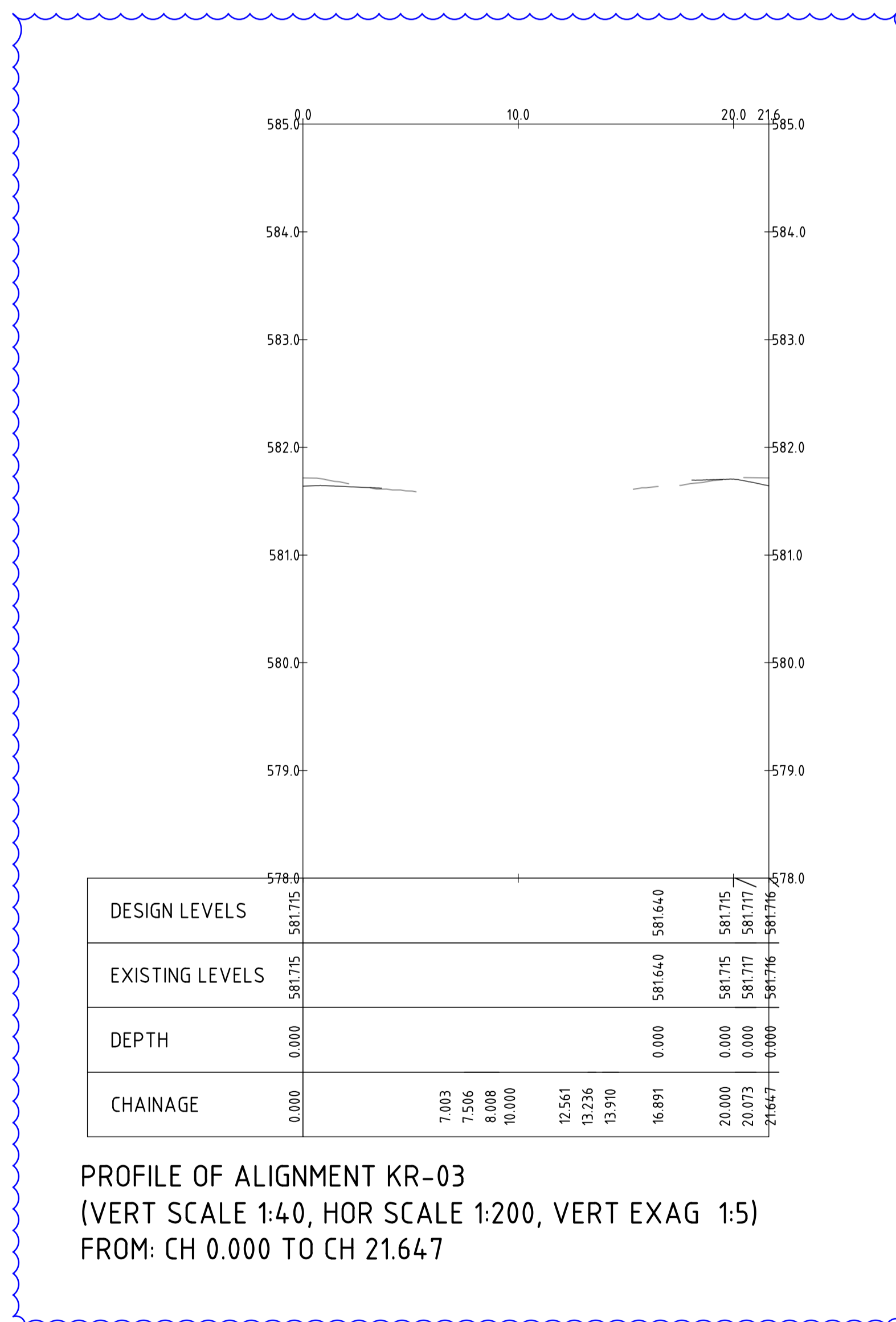
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|----------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| KERB RETURN LONGITUDINAL | | | | | |
| SECTIONS SHEET 2 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0172 | A |

File Name: P:\2018\180658_B4-538-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-al-0173.dwg



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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

1:200 @ A1

North

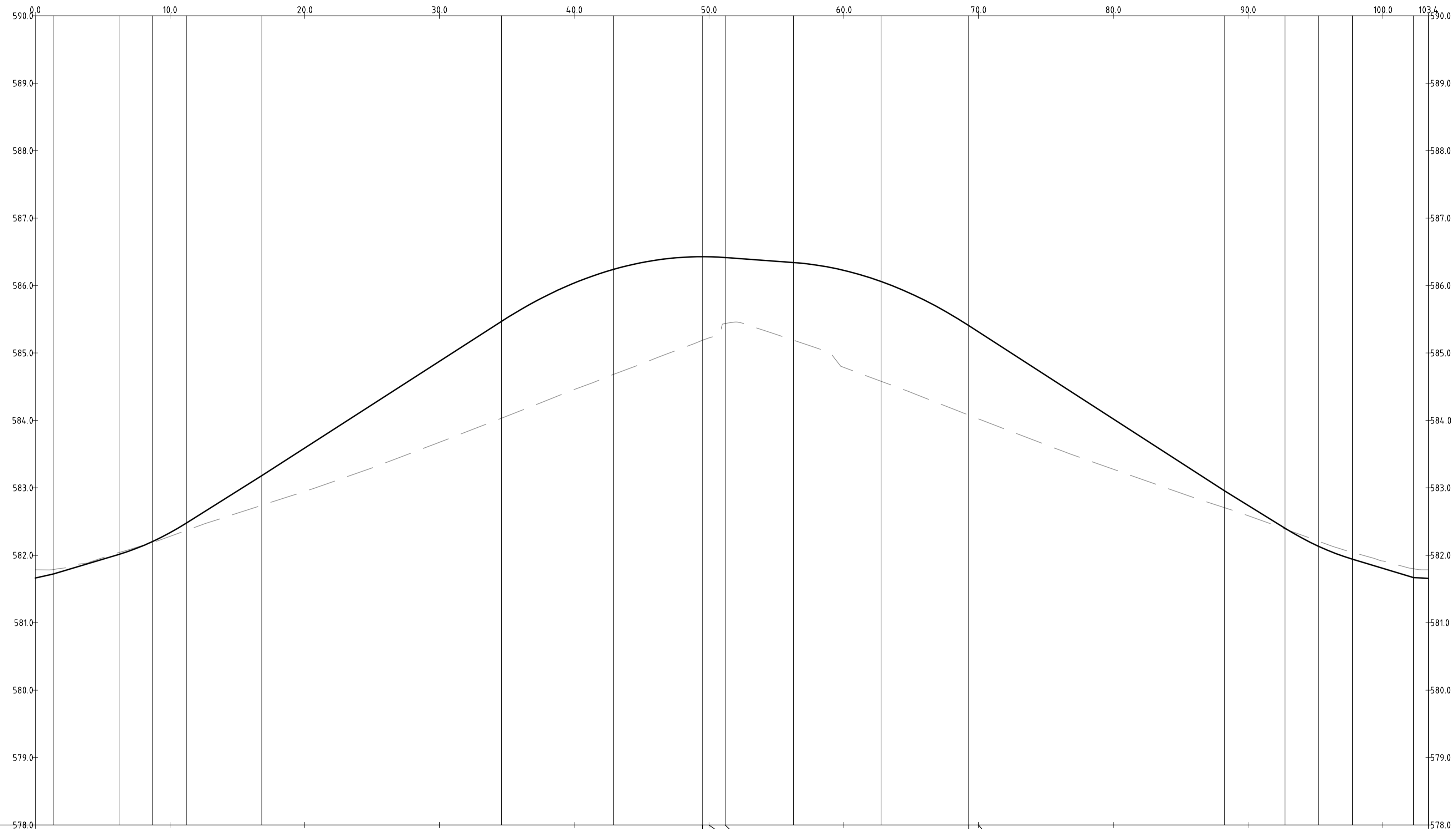
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| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| KERB RETURN LONGITUDINAL | | | | | |
| SECTIONS SHEET 3 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0173 | A |



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|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| DESIGN LEVELS | 581.662 | 581.784 | 581.788 | 581.788 | 582.013 | 582.013 | 582.204 | 582.334 | 582.478 | 583.182 | 583.591 | 584.877 | 585.470 | 586.038 | 586.239 | 586.428 | 586.427 | 586.415 | 586.342 | 586.226 | 586.060 | 585.407 | 585.313 | 584.021 | 582.954 | 582.739 | 582.401 | 582.132 | 581.942 | 581.807 | 581.670 | 581.657 | |
| EXISTING LEVELS | 581.784 | 581.788 | 582.041 | 582.192 | 582.280 | 582.369 | 582.742 | 582.947 | 583.677 | 584.033 | 584.458 | 584.683 | 585.188 | 585.224 | 585.436 | 585.889 | 586.428 | 586.427 | 586.415 | 586.342 | 586.226 | 586.060 | 585.407 | 585.313 | 584.021 | 582.954 | 582.739 | 582.401 | 582.132 | 581.942 | 581.807 | 581.670 | 581.657 |
| DEPTH | -0.122 | -0.067 | -0.027 | 0.013 | 0.054 | 0.109 | 0.440 | 0.644 | 1.200 | 1.437 | 1.580 | 1.557 | 1.240 | 1.203 | 0.979 | 1.152 | 0.000 | 0.000 | 0.000 | 0.000 | 1.439 | 1.481 | 1.328 | 1.291 | 0.745 | 0.248 | 0.151 | 0.012 | -0.076 | -0.102 | -0.108 | -0.131 | -0.127 |
| CHAINAGE | 0.000 | 1.333 | 6.275 | 8.715 | 10.000 | 11.215 | 16.877 | 20.000 | 30.000 | 34.607 | 40.000 | 42.901 | 49.506 | 50.000 | 51.194 | 56.267 | 60.000 | 62.771 | 69.275 | 70.000 | 80.000 | 88.260 | 90.000 | 92.743 | 95.243 | 97.743 | 100.000 | 102.278 | 103.384 | | | | |

PROFILE OF ALIGNMENT KR-04
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 103.384

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| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

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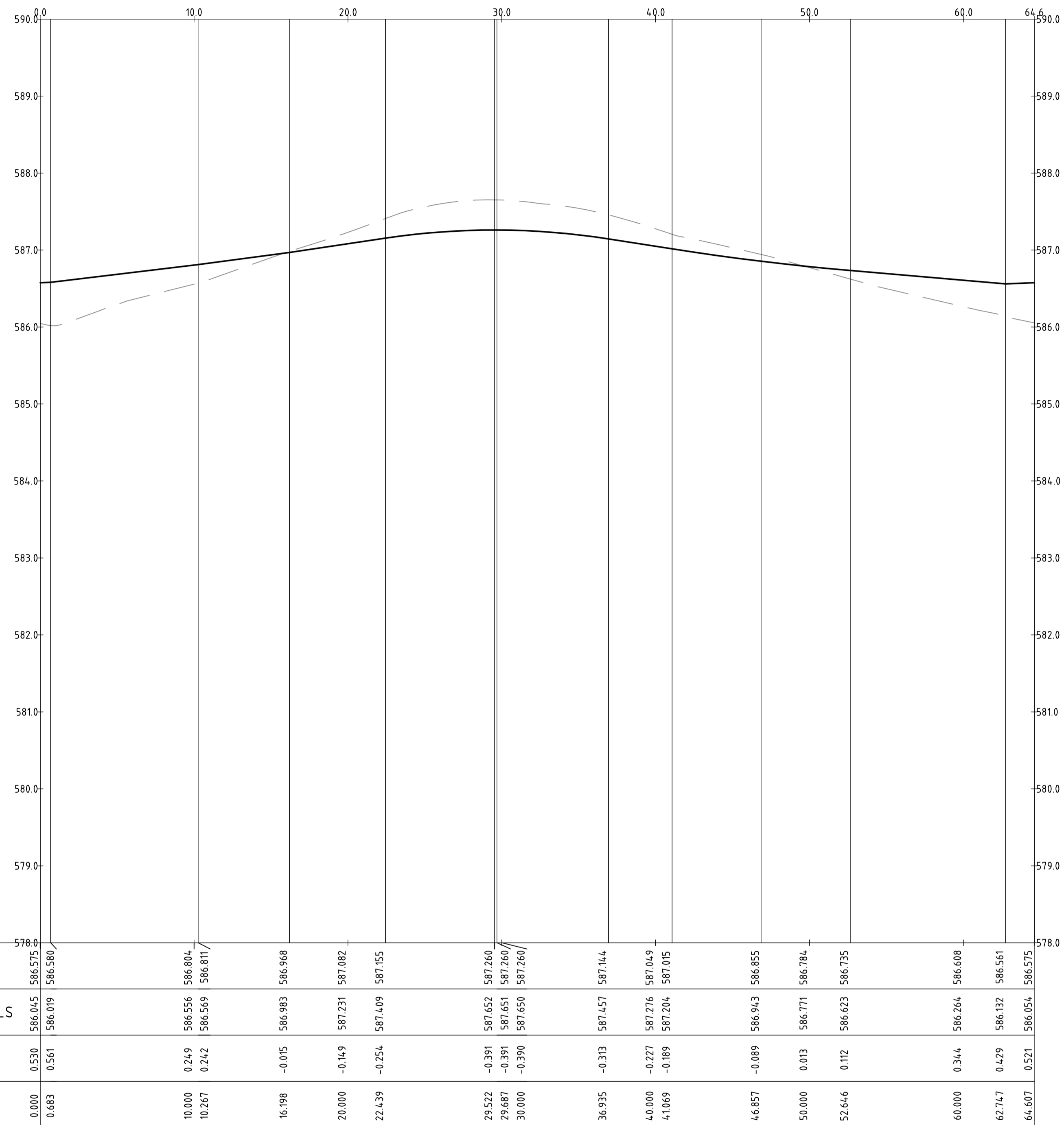
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Client Logo

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|----------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| KERB RETURN LONGITUDINAL | | | | | |
| SECTIONS SHEET 4 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0174 | A |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-al-0175.dwg



PROFILE OF ALIGNMENT KR-05
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 64.607

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

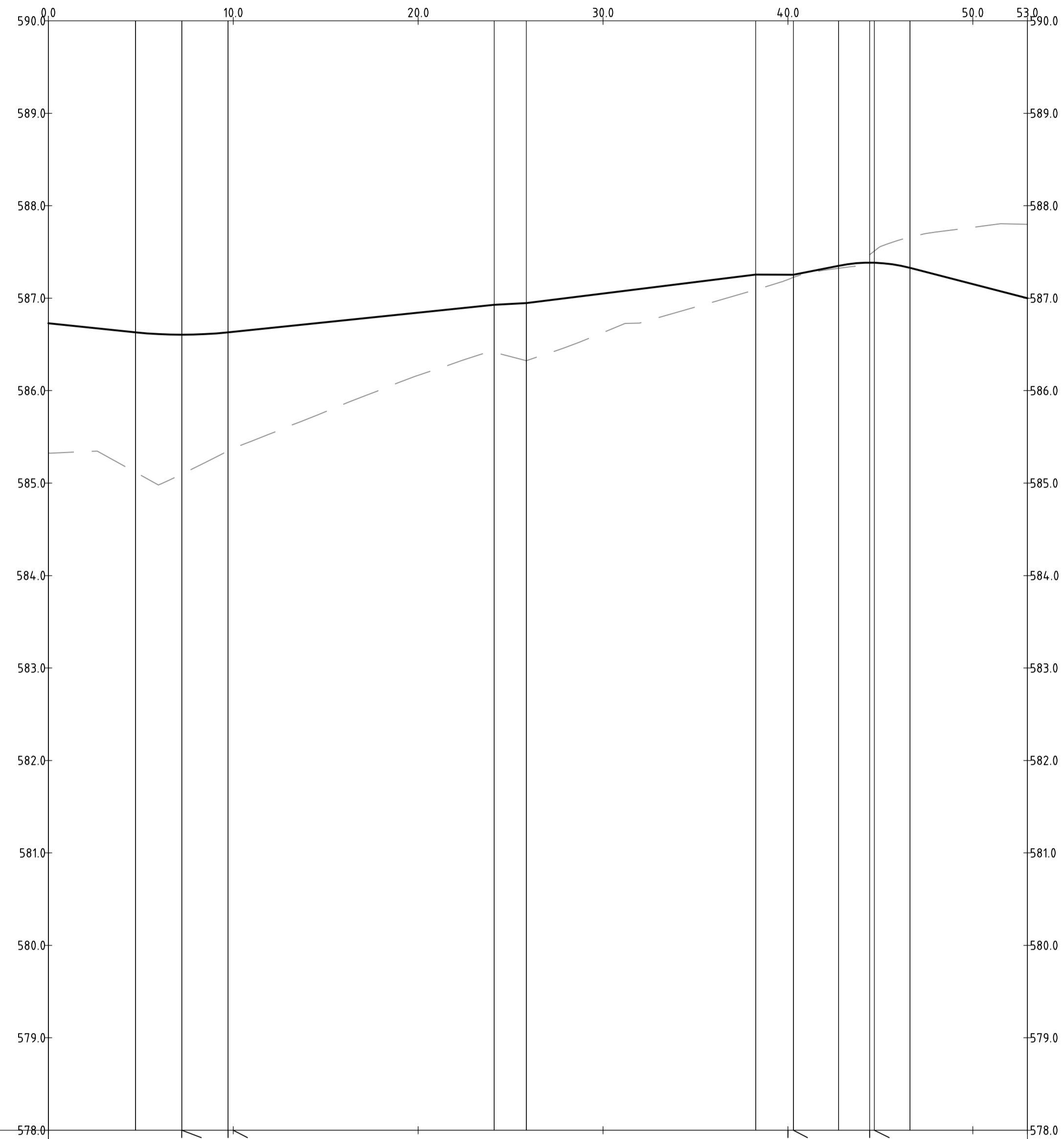
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Client Logo

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|-------------------|-----------------------------|---------------|------------|
| Status | NOT FOR CONSTRUCTION | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
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|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| KERB RETURN LONGITUDINAL | | | | | |
| SECTIONS SHEET 5 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0175 | A |



PROFILE OF ALIGNMENT KR-06
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 52.952

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

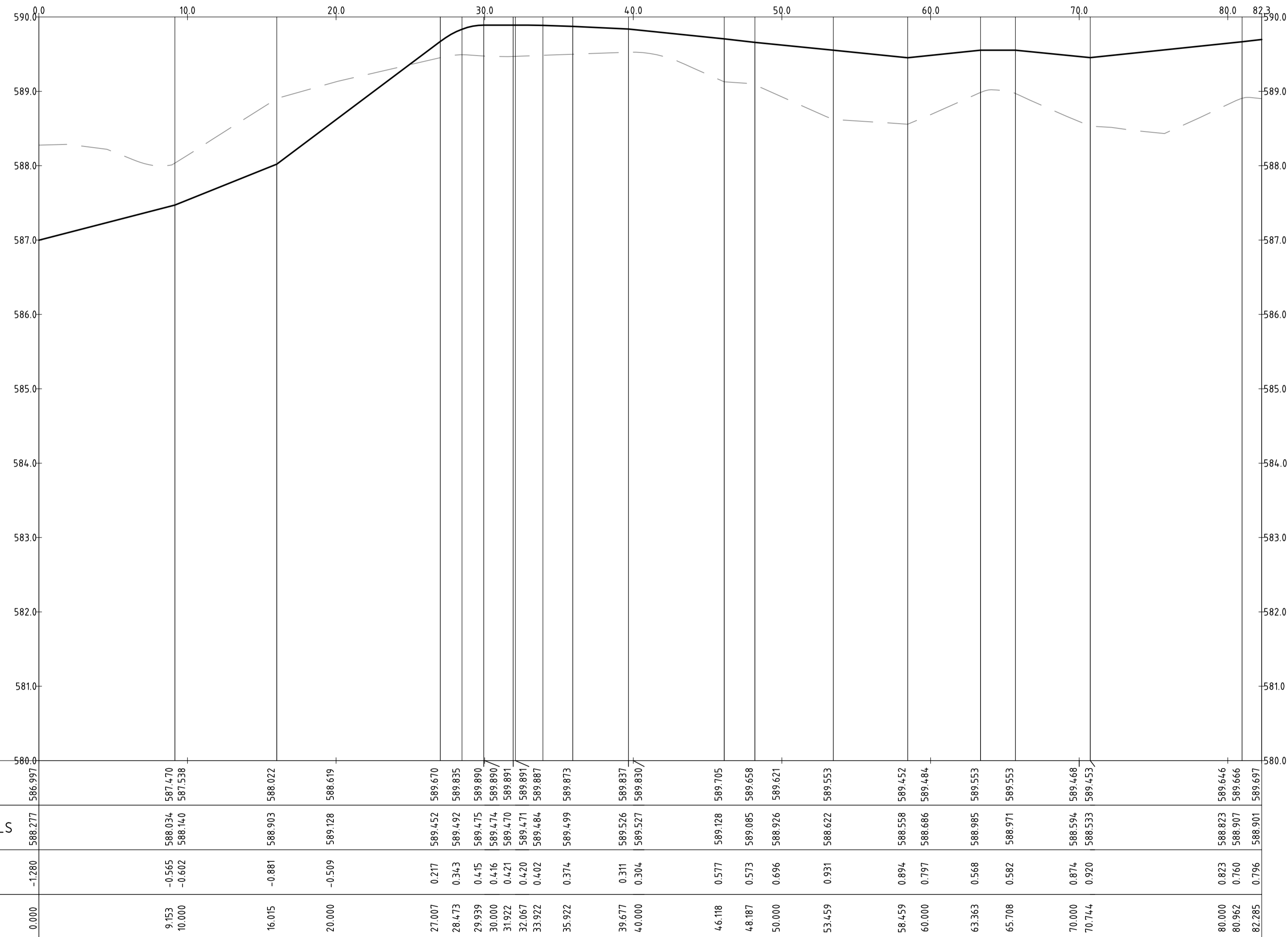
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Client Logo

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| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Drafting Check | DCA |
| | | Design Check | AM |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

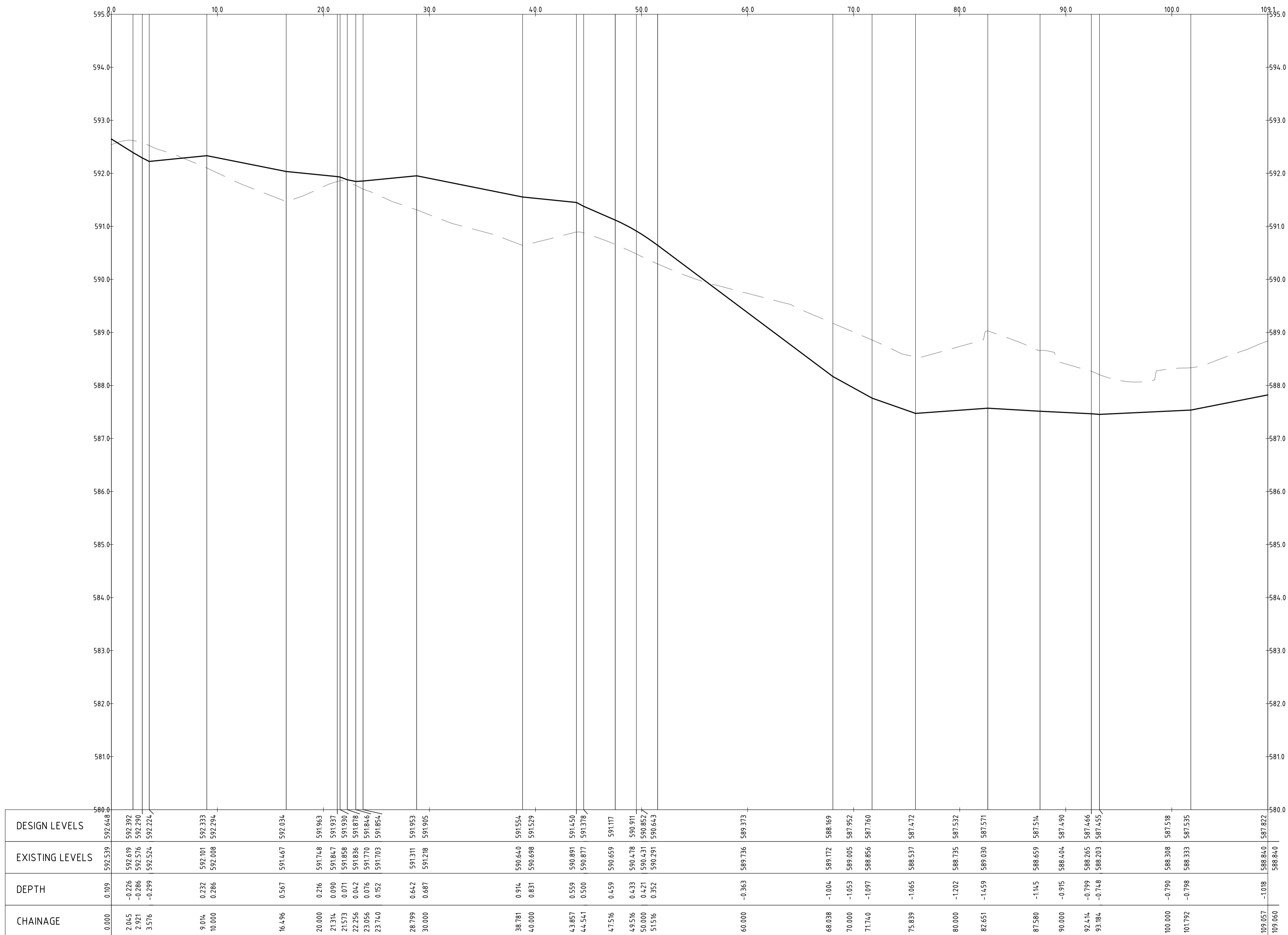
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| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| KERB RETURN LONGITUDINAL | | | | | |
| SECTIONS SHEET 6 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0176 | A |



PROFILE OF ALIGNMENT KR-07
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 82.285

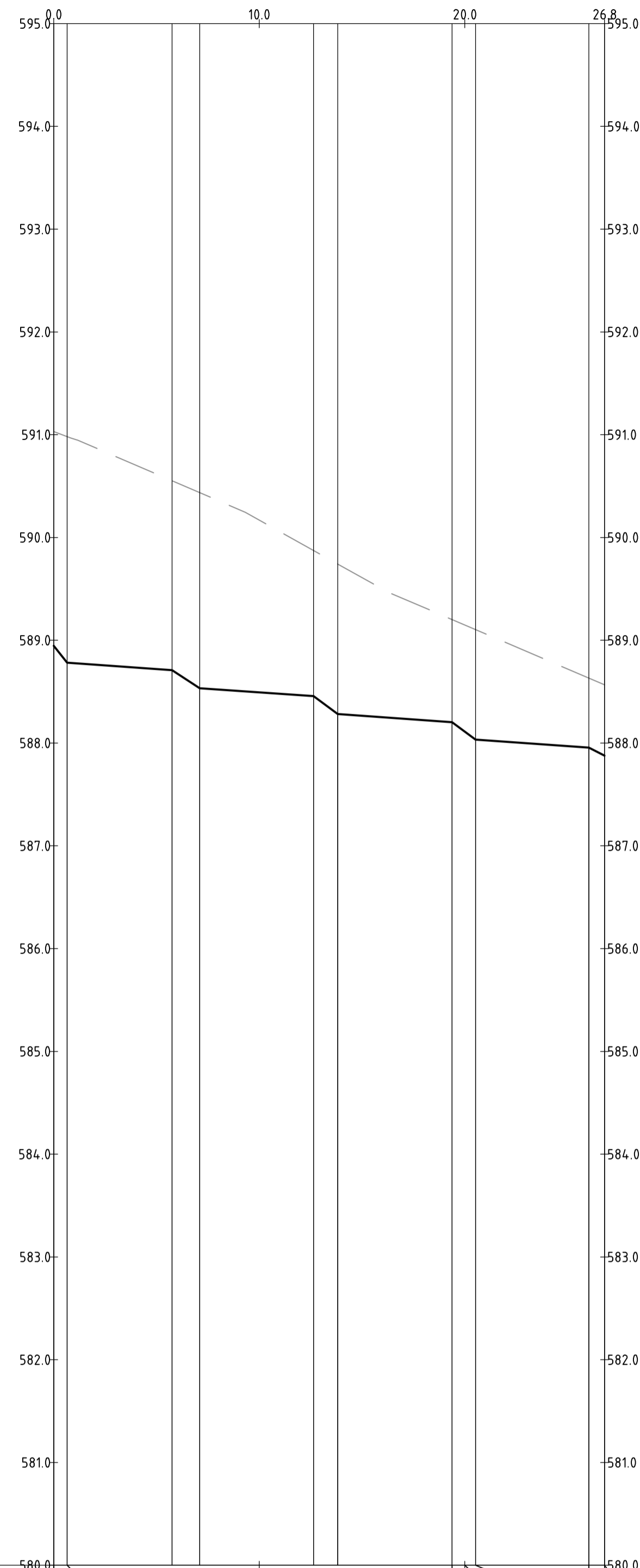
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|-----|-----------------|--|----------|-------|--|-----------------------------|-----------|---|----|----------------|-----|----------------|------------|--------------------|-----|------------|-----|----------------|----|---------|------|-----|---|
| | | Scales | | North | | Status | | Project Name and Location | | | | | | | | | | | | | | | |
| | | | | | | NOT FOR CONSTRUCTION | | RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | | | | | | | | | |
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| A | FOR INFORMATION | 20.12.2019 | AM | | | Original Size | A1 | Drawn By | RT | Drafting Check | DCA | Project Number | 180658 | Type | DRG | Discipline | CIV | Sub-Discipline | AL | Drg No. | 0177 | Rev | A |
| Rev | Description | Date | Approved | | | Date Plotted | 20-Dec-19 | Designed By | LT | Design Check | AM | Approved Date | 24.08.2018 | Approved Signature | | | | | | | | | |

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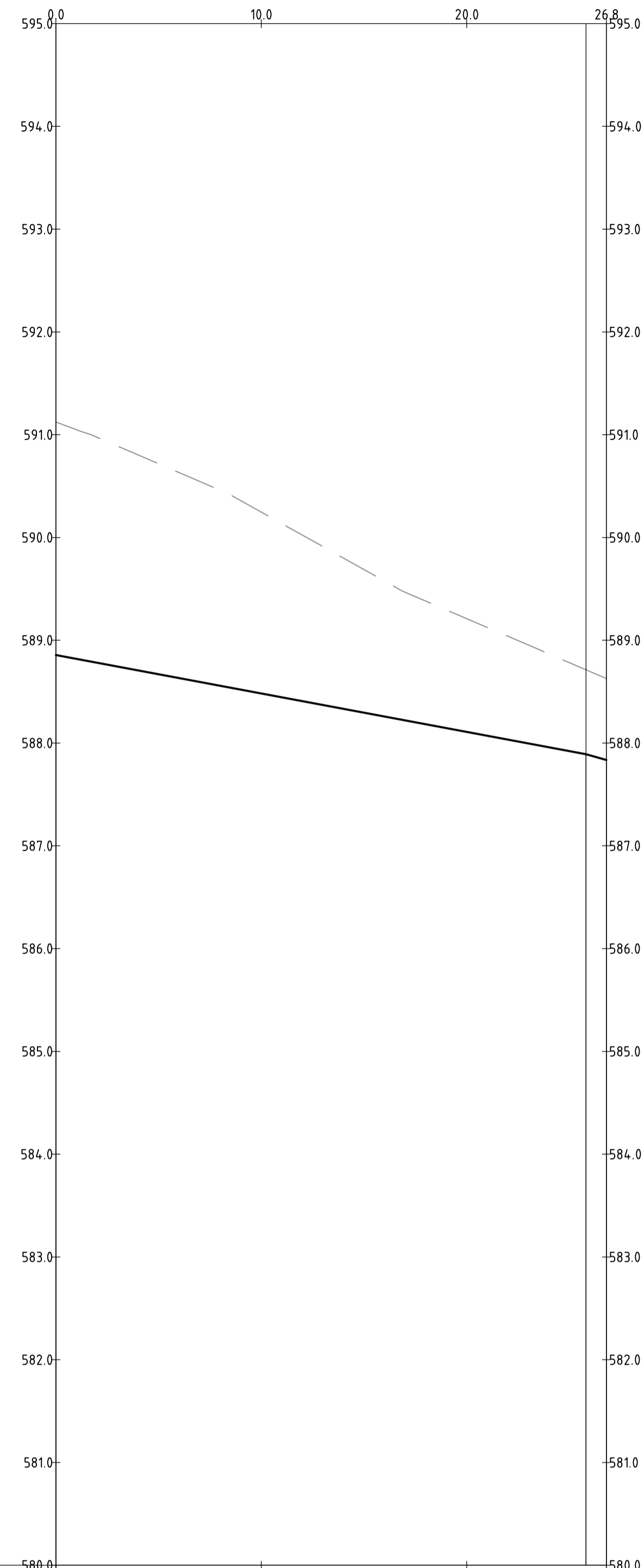
PROFILE OF ALIGNMENT KR-08
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 109.060

| | | | | | | | | | | | | | | | |
|--|--|---------------|--|-------------|--|--|--|---|--|---|--|--|--|-------------------------|--|
| Scales | | North | | Client Logo | | Status | | Project Name and Location | | | | | | | |
| | | | | | | NOT FOR CONSTRUCTION | | RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | |
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| A FOR INFORMATION Rev Description Date Approved | | 20.12.2019 AM | | Approved | | Coordinate System: STROMLO GRID Height Datum: AHD | | Approved By: BC Approved Date: 24.08.2018 Approved Signature: | | Project Number: 180658 Type: DRG | | Discipline: CIV Sub-Discipline: AL | | Drg No.: 0178 Rev: A | |



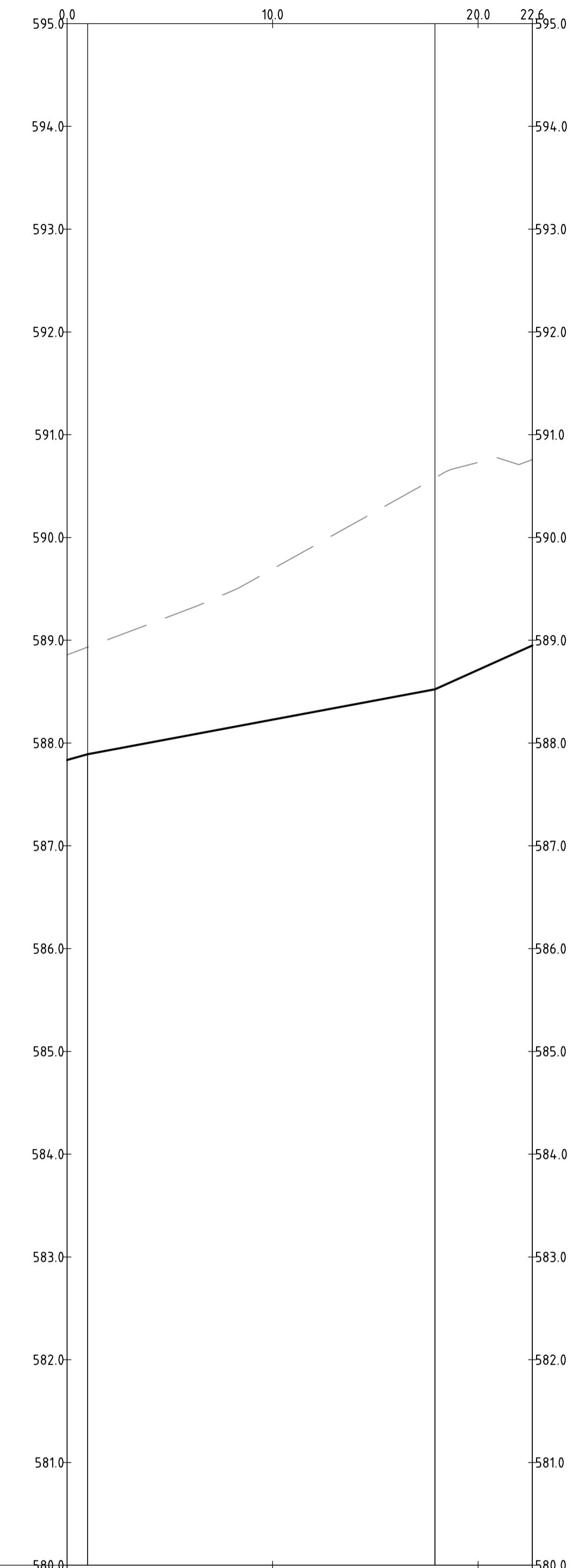
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|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| DESIGN LEVELS | 591.031 | 588.746 | 588.782 | 588.709 | 588.534 | 588.493 | 588.456 | 588.283 | 588.202 | 588.111 | 588.034 | 587.957 | 587.878 |
| EXISTING LEVELS | 591.031 | 590.982 | 590.982 | 590.552 | 590.436 | 590.170 | 589.874 | 589.742 | 589.202 | 589.149 | 589.104 | 588.632 | 588.567 |
| DEPTH | -2.084 | -2.199 | -2.199 | -1.844 | -1.902 | -1.677 | -1.418 | -1.460 | -1.000 | -0.823 | -0.794 | -0.676 | -0.694 |
| CHAINAGE | 0.000 | 0.654 | 10.000 | 5.760 | 7.109 | 12.644 | 13.818 | 19.382 | 20.000 | 20.523 | 26.039 | 26.800 | |

PROFILE OF ALIGNMENT KR-09
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 26.800



| | | | | | | |
|-----------------|---------|---------|---------|---------|---------|---------|
| DESIGN LEVELS | 591.124 | 588.482 | 588.108 | 587.891 | 587.835 | 587.835 |
| EXISTING LEVELS | 591.124 | 590.247 | 589.211 | 588.714 | 588.629 | 588.629 |
| DEPTH | -2.268 | -1.765 | -1.102 | -0.823 | -0.794 | -0.794 |
| CHAINAGE | 0.000 | 10.000 | 20.000 | 25.803 | 26.800 | |

PROFILE OF ALIGNMENT KR-10
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 26.800



| | | | | | |
|-----------------|---------|---------|---------|---------|---------|
| DESIGN LEVELS | 587.835 | 588.227 | 588.522 | 588.712 | 588.951 |
| EXISTING LEVELS | 588.858 | 589.693 | 590.578 | 590.730 | 590.758 |
| DEPTH | -1.023 | -1.466 | -2.056 | -2.018 | -1.807 |
| CHAINAGE | 0.000 | 10.000 | 17.991 | 20.000 | 22.643 |

PROFILE OF ALIGNMENT KR-11
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 22.643

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| Rev | Description | Date | Approved |
| A | FOR INFORMATION | 20.12.2019 | AM |

Scales
0 5 7.5 10m
1:200 @ A1

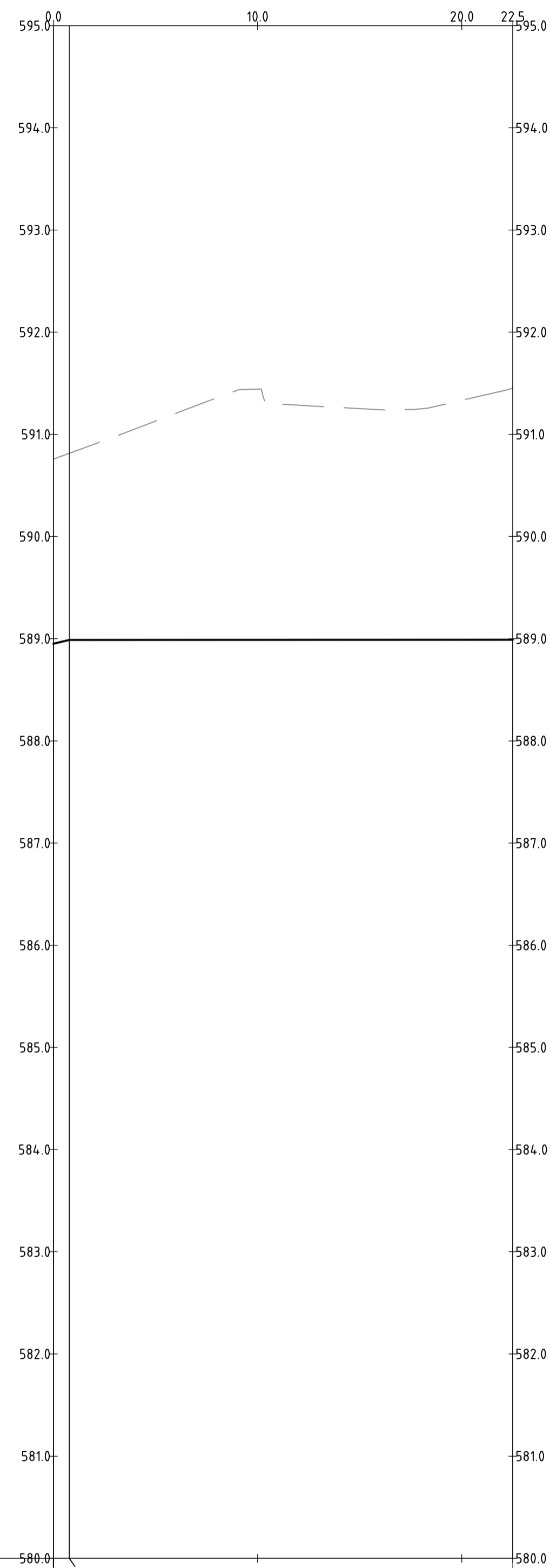
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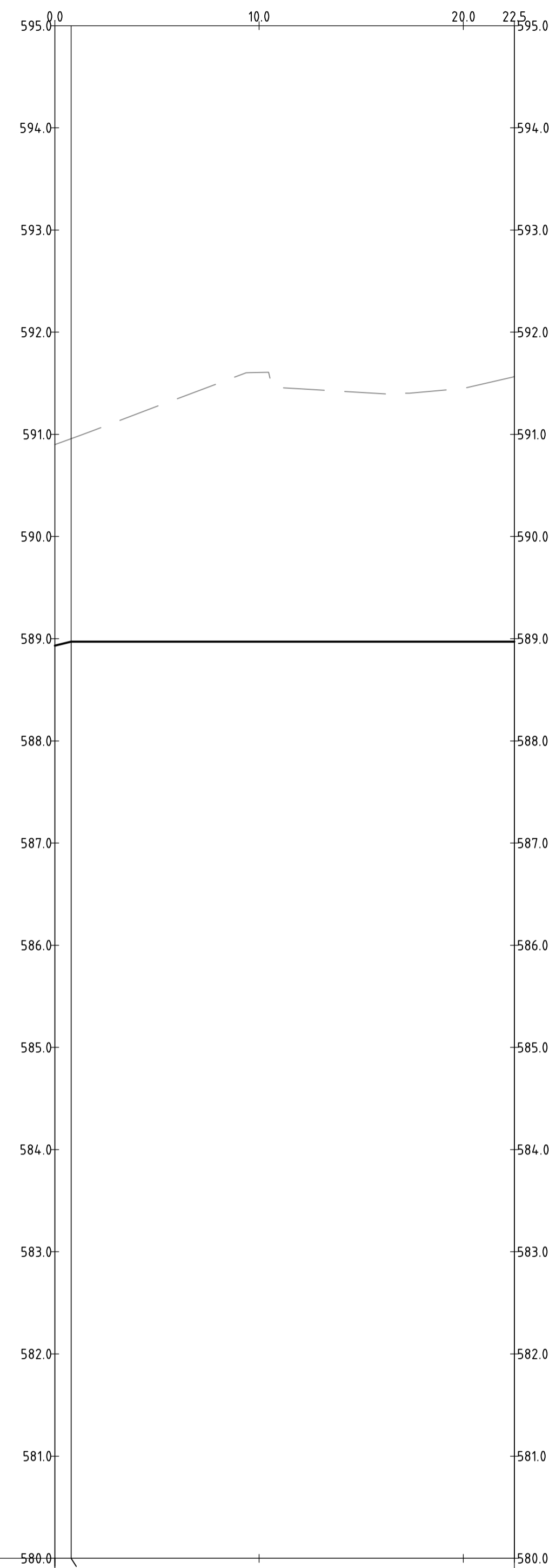
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|---------------------------------------|--------------------|-----------------------------|--|
| Status NOT FOR CONSTRUCTION | | | |
| Original Size A1 | Drawn By RT | Drafting Check DCA | |
| Date Plotted 20-Dec-19 | Designed By LT | Design Check AM | |
| Coordinate System STROMLO GRID | Approved BC | Approved Date 24.08.2018 | |
| Height Datum AHD | Approved Signature | | |

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|--|-------------|-------------------|----------------------|-----------------|----------|--|
| Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title KERB RETURN LONGITUDINAL SECTIONS SHEET 9 | | | | | | |
| Project Number 180658 | Type DRG | Discipline CIV | Sub-Discipline AL | Drg No. 0179 | Rev A | |



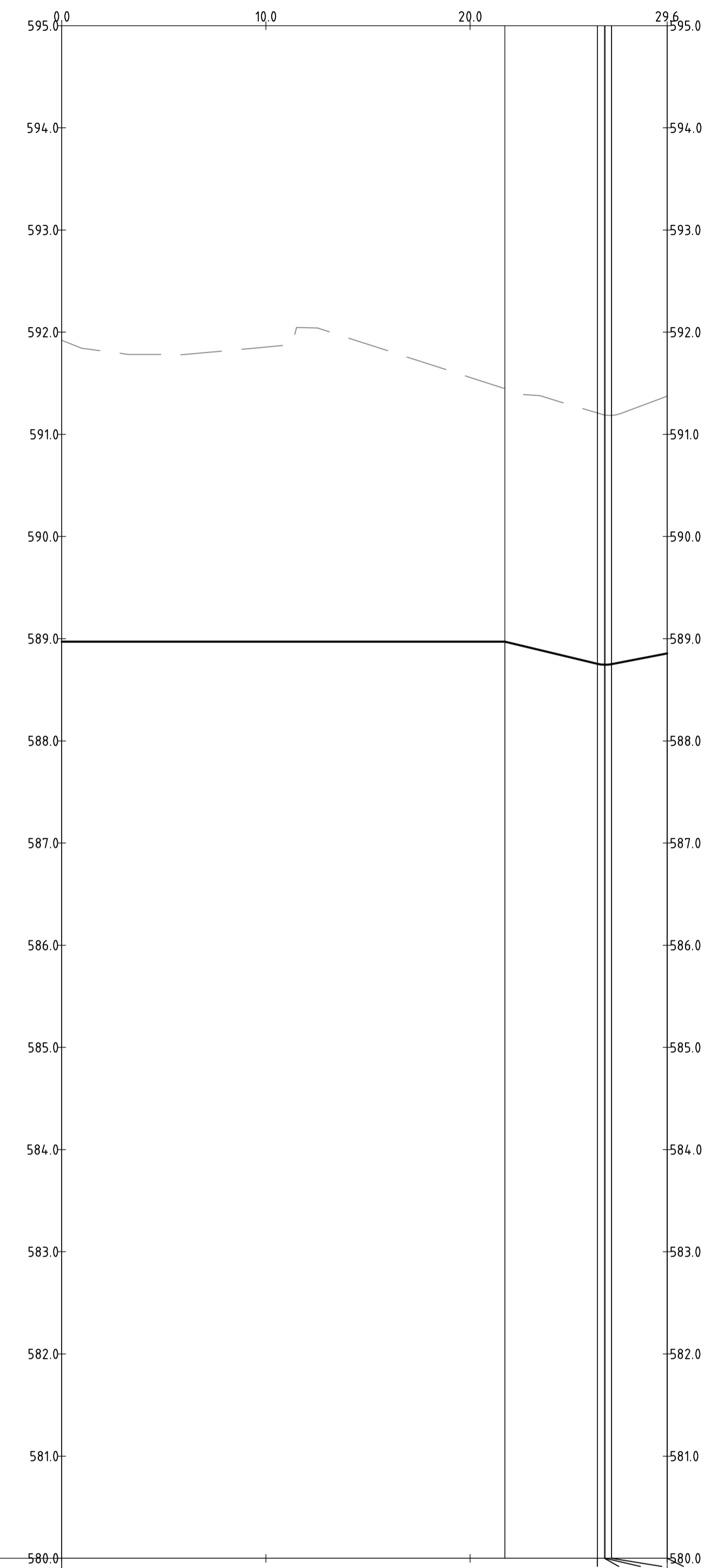
| | | | |
|-----------------|---------|---------|---------|
| DESIGN LEVELS | 589.000 | 589.000 | 589.000 |
| EXISTING LEVELS | 590.758 | 591.443 | 591.333 |
| DEPTH | -1.807 | -2.453 | -2.344 |
| CHAINAGE | 0.000 | 10.000 | 20.000 |

PROFILE OF ALIGNMENT KR-12
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 22.500



| | | | |
|-----------------|---------|---------|---------|
| DESIGN LEVELS | 589.000 | 589.000 | 589.000 |
| EXISTING LEVELS | 590.899 | 591.606 | 591.450 |
| DEPTH | -1.966 | -2.634 | -2.478 |
| CHAINAGE | 0.000 | 10.000 | 20.000 |

PROFILE OF ALIGNMENT KR-13
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 22.500



| | | | |
|-----------------|---------|---------|---------|
| DESIGN LEVELS | 589.000 | 589.000 | 589.000 |
| EXISTING LEVELS | 591.920 | 591.854 | 591.558 |
| DEPTH | -2.948 | -2.882 | -2.586 |
| CHAINAGE | 0.000 | 10.000 | 20.000 |

PROFILE OF ALIGNMENT KR-14
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 29.647

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| Rev | Description | Date | Approved |
| A | FOR INFORMATION | 20.12.2019 | AM |

Scales

1:200 @ A1

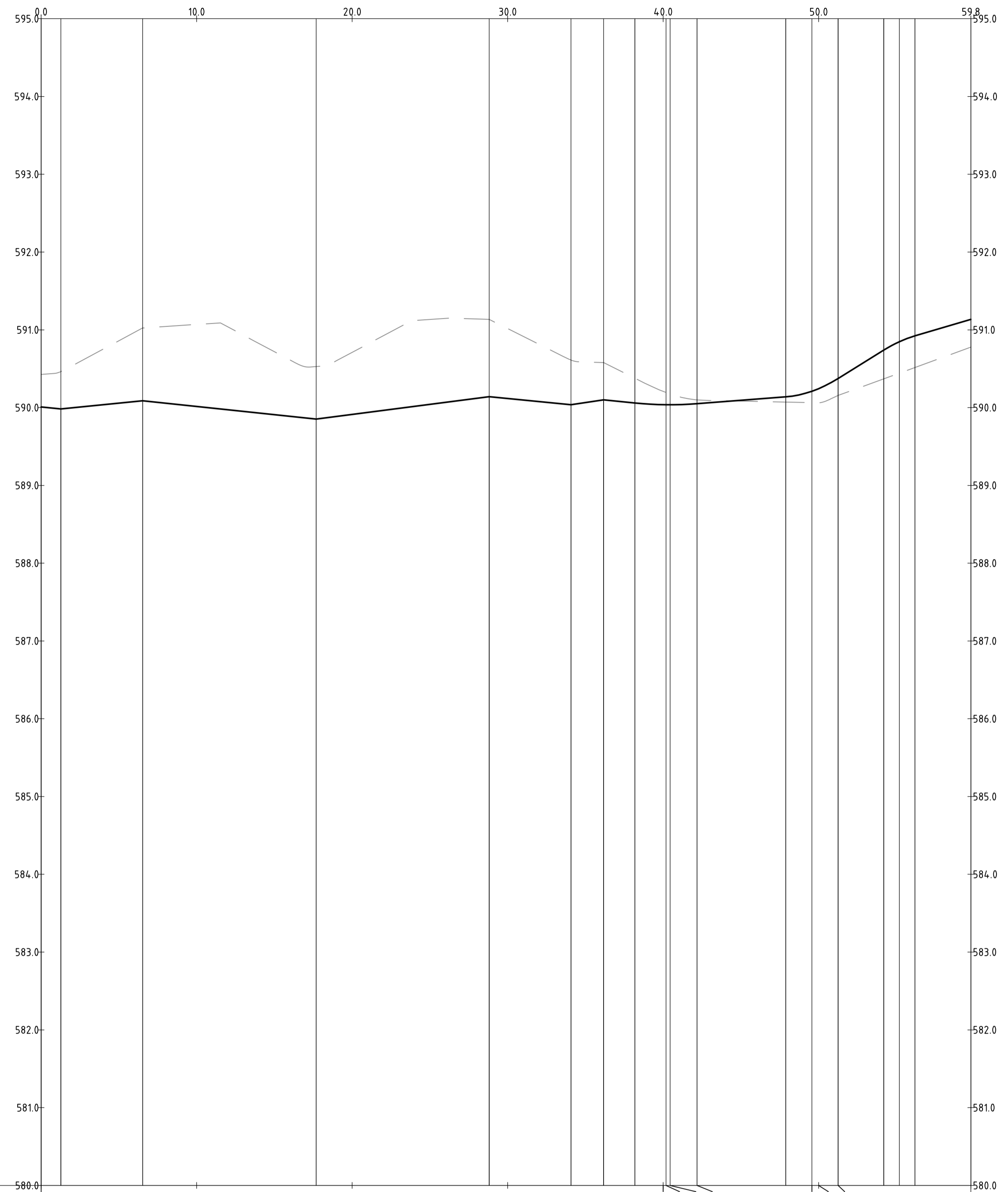
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| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Drafting Check | DCA |
| | | Design Check | AM |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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|------------------------------|------|------------|----------------|---------|-----|--|
| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| KERB RETURN LONGITUDINAL | | | | | | |
| SECTIONS SHEET 10 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | AL | 0180 | A | |

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|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| DESIGN LEVELS | 0.000 | 0.001 | 1.270 | 6.533 | 10.000 | 17.686 | 20.000 | 28.818 | 30.000 | 34.075 | 36.168 | 38.183 | 40.000 | 40.183 | 40.445 | 42.183 | 47.881 | 49.565 | 50.000 | 51.249 | 54.187 | 55.187 | 56.187 | 59.784 | |
| EXISTING LEVELS | 590.009 | 590.427 | 590.428 | 590.463 | 591.024 | 590.888 | 590.014 | 589.852 | 589.912 | 590.141 | 590.141 | 590.118 | 590.037 | 590.100 | 590.060 | 590.037 | 590.071 | 590.211 | 590.244 | 590.374 | 590.370 | 590.443 | 590.847 | 590.923 | 591.135 |
| DEPTH | -0.418 | -0.461 | -0.461 | -0.936 | -1.055 | -0.676 | -0.798 | -0.993 | -0.898 | -0.575 | -0.479 | -0.318 | -0.171 | -0.157 | -0.157 | -0.159 | 0.068 | 0.147 | 0.182 | 0.218 | 0.369 | 0.404 | 0.407 | 0.357 | |
| CHAINAGE | 0.000 | 0.001 | 1.270 | 6.533 | 10.000 | 17.686 | 20.000 | 28.818 | 30.000 | 34.075 | 36.168 | 38.183 | 40.000 | 40.183 | 40.445 | 42.183 | 47.881 | 49.565 | 50.000 | 51.249 | 54.187 | 55.187 | 56.187 | 59.784 | |

PROFILE OF ALIGNMENT KR-15
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 59.784

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| Rev | Description | Date | Approved |
| A | FOR INFORMATION | 20.12.2019 | AM |

Scales

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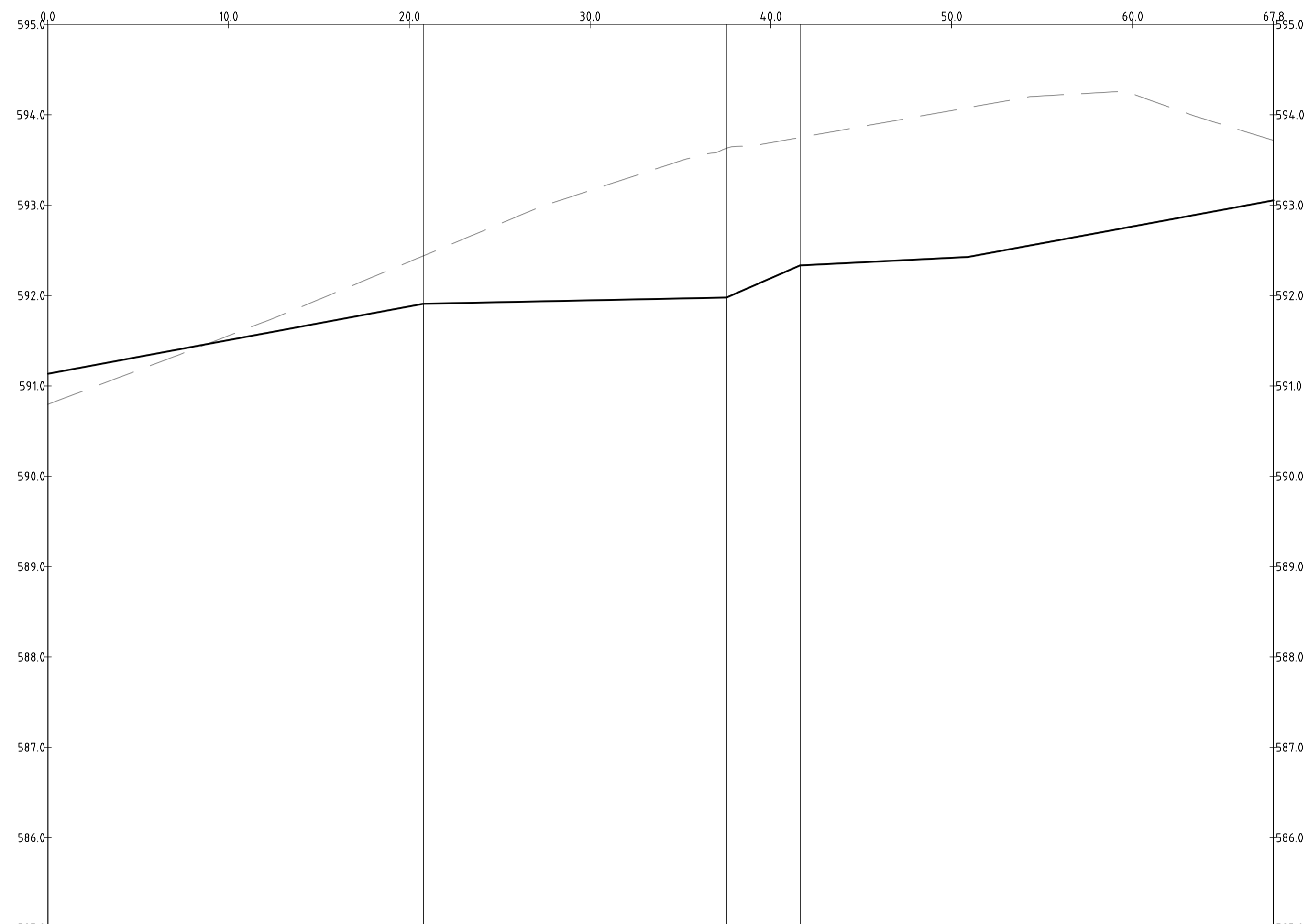
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| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Drafting Check | DCA |
| Height Datum | AHD | Design Check | AM |
| | | Approved | BC |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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|------------------------------|------|------------|----------------|---------|-----|--|
| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| KERB RETURN LONGITUDINAL | | | | | | |
| SECTIONS SHEET 11 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | AL | 0181 | A | |

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| DESIGN LEVELS | 591.135 | 591.507 | 591.879 | 591.947 | 591.979 | 592.334 | 592.426 | 592.764 | 593.054 |
| EXISTING LEVELS | 590.797 | 591.556 | 592.375 | 593.162 | 593.630 | 593.692 | 594.047 | 594.231 | 593.717 |
| DEPTH | 0.336 | -0.049 | -0.495 | -1.215 | -1.651 | -1.499 | -1.630 | -1.653 | -0.664 |
| CHAINAGE | 0.000 | 10.000 | 20.000 | 30.000 | 37.543 | 40.000 | 50.000 | 60.000 | 67.797 |

PROFILE OF ALIGNMENT KR-16
 (VERT SCALE 1:4.0, HOR SCALE 1:200, VERT EXAG 1.5)
 FROM: CH 0.000 TO CH 67.797

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

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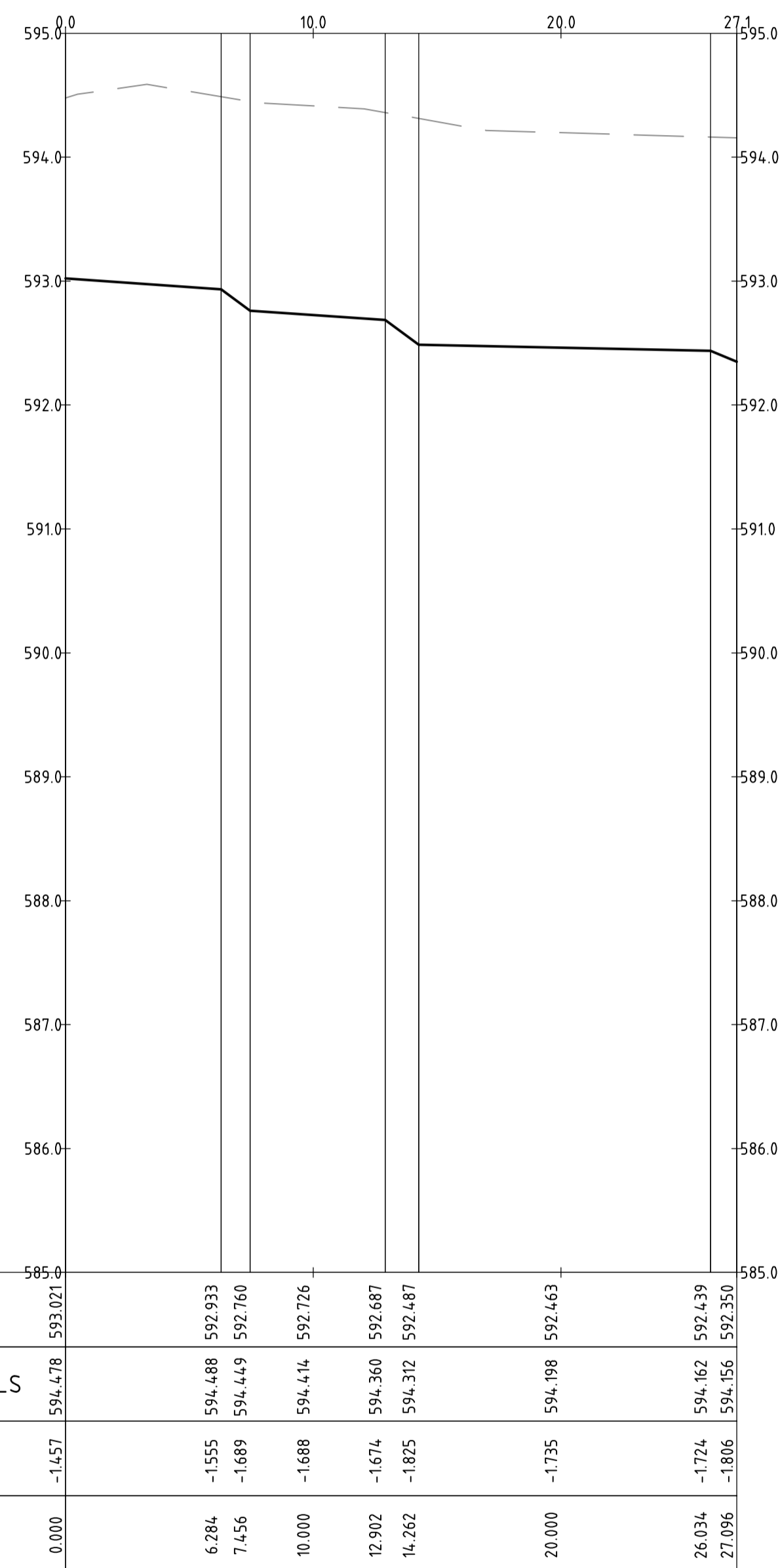
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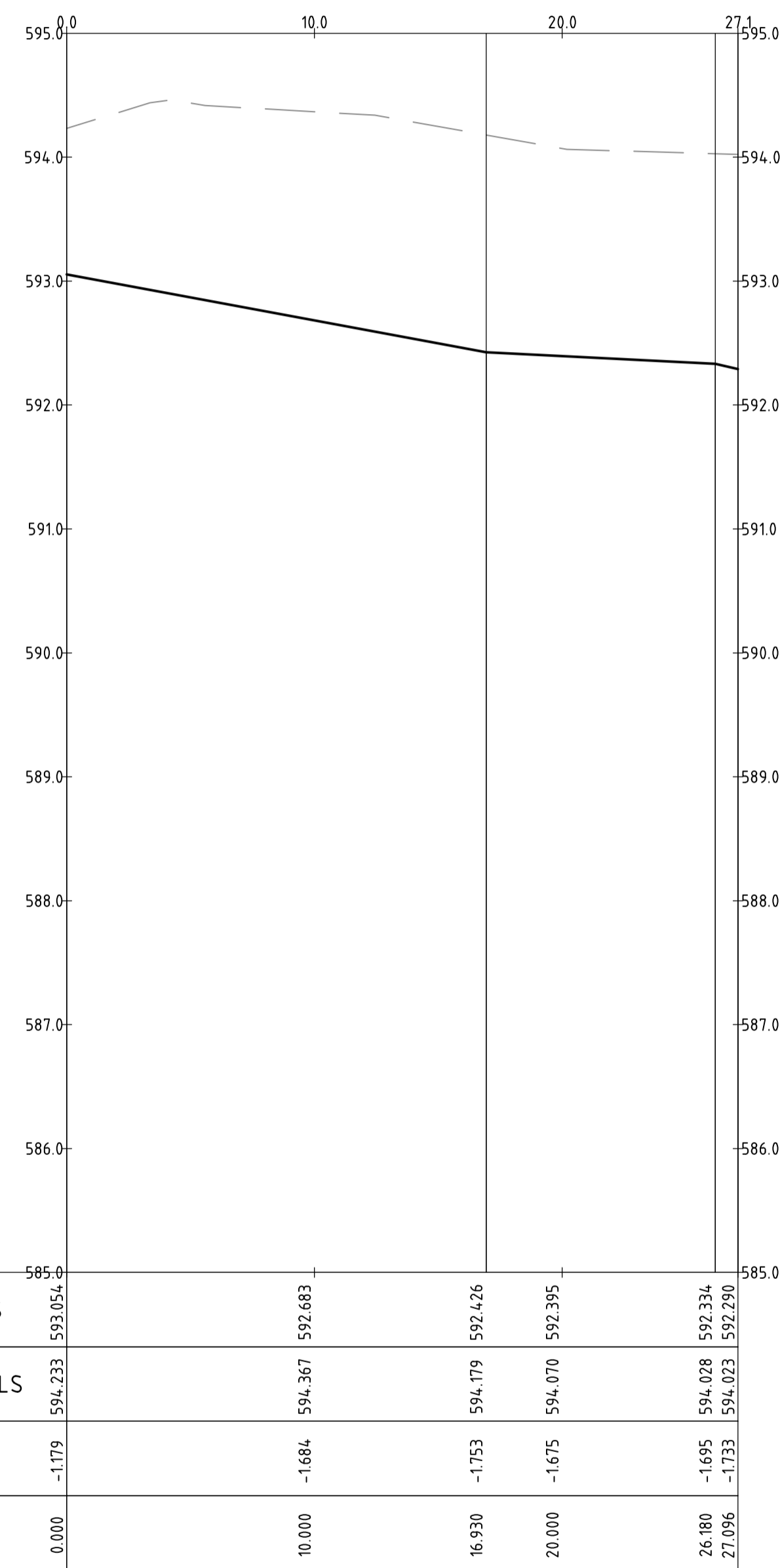
Client Logo

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| Status | | | |
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| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

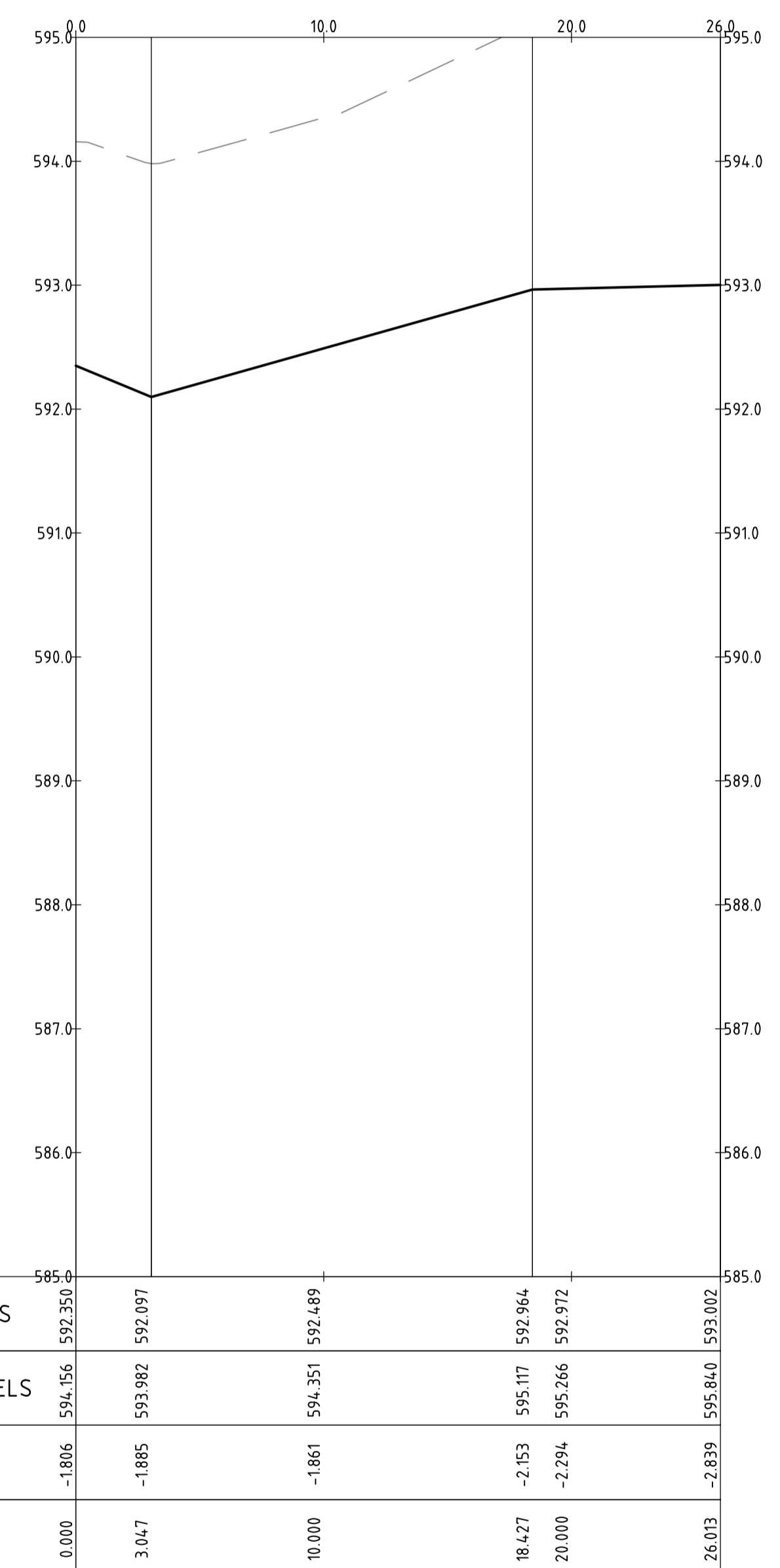
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| Project Name and Location | | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| KERB RETURN LONGITUDINAL | | | | | | |
| SECTIONS SHEET 12 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | AL | 0182 | A | |



PROFILE OF ALIGNMENT KR-17
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 27.096



PROFILE OF ALIGNMENT KR-18
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 27.096



PROFILE OF ALIGNMENT KR-19
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 26.013

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

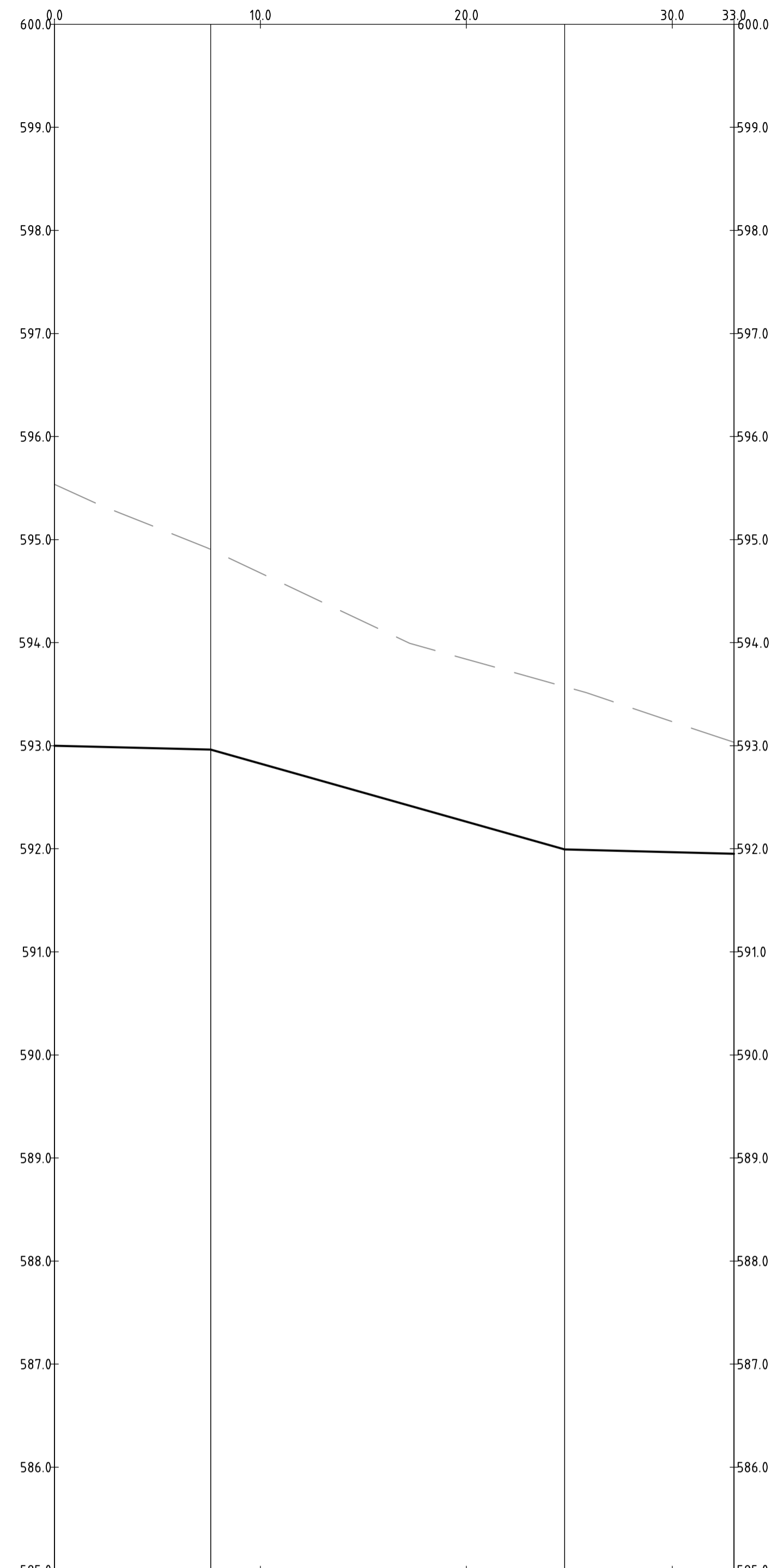
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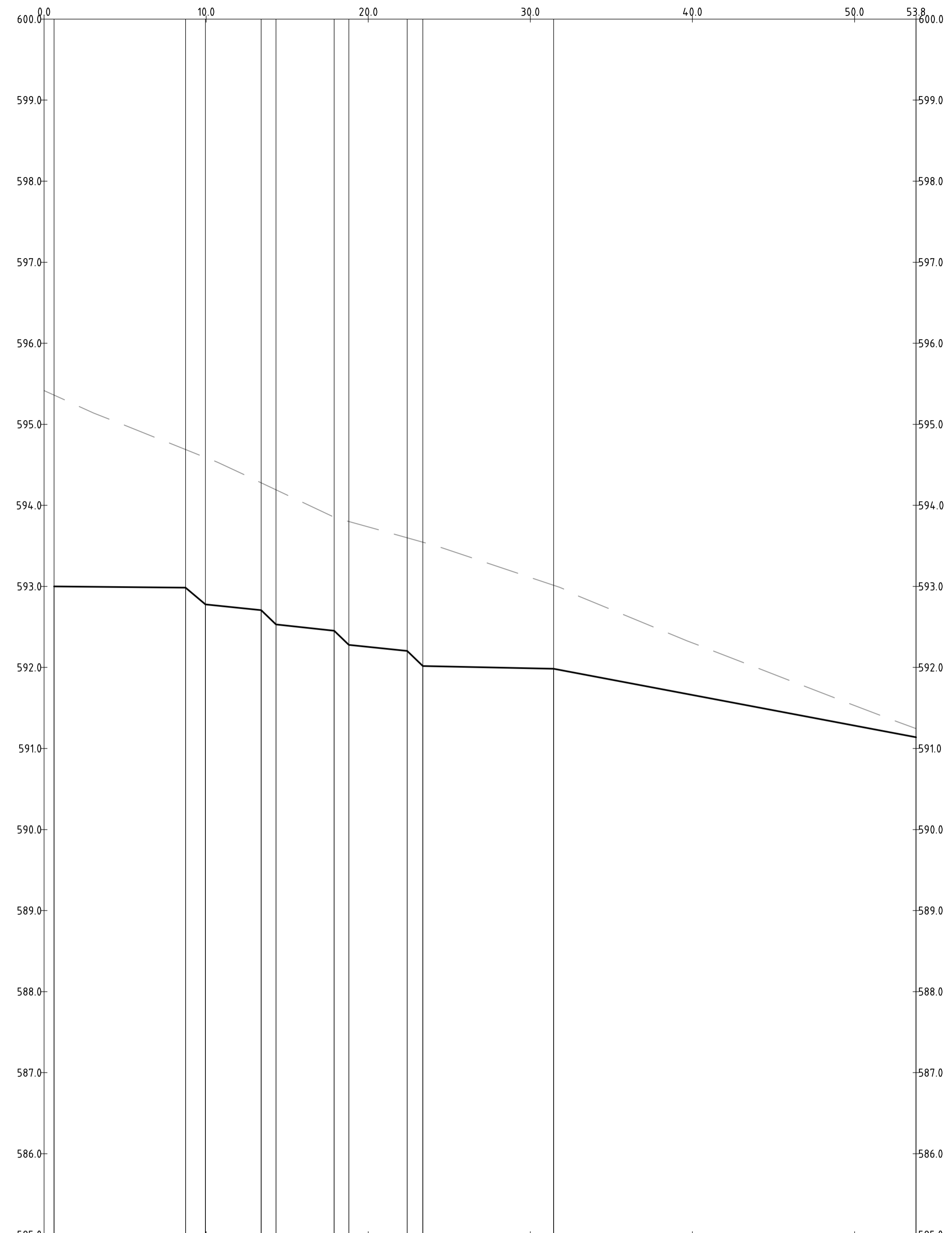
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| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| KERB RETURN LONGITUDINAL | | | | | |
| SECTIONS SHEET 13 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0183 | A |



| | | | | | | | |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| DESIGN LEVELS | 593.000 | 592.962 | 592.826 | 592.263 | 591.994 | 591.967 | 591.952 |
| EXISTING LEVELS | 595.536 | 594.905 | 594.677 | 593.840 | 593.573 | 593.234 | 593.033 |
| DEPTH | -2.536 | -1.943 | -1.851 | -1.577 | -1.580 | -1.266 | -1.081 |
| CHAINAGE | 0.000 | 7.586 | 10.000 | 20.000 | 24.773 | 30.000 | 33.000 |

PROFILE OF ALIGNMENT KR-20
(VERT SCALE 1:4.0, HOR SCALE 1:200, VERT EXAG 1.5)
FROM: CH 0.000 TO CH 33.000



| | | | | | | | | | | | | | | | | | |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| DESIGN LEVELS | 595.417 | 595.361 | 592.984 | 592.778 | 592.717 | 592.707 | 592.531 | 592.454 | 592.279 | 592.204 | 591.990 | 591.985 | 591.661 | 591.283 | 591.139 | | |
| EXISTING LEVELS | 595.361 | 595.361 | 594.689 | 594.592 | 594.588 | 594.279 | 594.192 | 593.854 | 593.800 | 593.546 | 593.110 | 593.013 | 592.303 | 591.530 | 591.245 | | |
| DEPTH | -0.622 | -0.622 | -1.705 | -1.814 | -1.812 | -1.572 | -1.661 | -1.400 | -1.522 | -1.396 | -1.120 | -1.029 | -0.642 | -0.247 | -0.106 | | |
| CHAINAGE | 0.000 | 0.622 | 8.731 | 9.960 | 10.000 | 13.392 | 14.313 | 17.902 | 18.809 | 20.000 | 22.401 | 23.368 | 30.000 | 31.441 | 40.000 | 50.000 | 53.799 |

PROFILE OF ALIGNMENT KR-21
(VERT SCALE 1:4.0, HOR SCALE 1:200, VERT EXAG 1.5)
FROM: CH 0.000 TO CH 53.799

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|-----|-----------------|------------|----------|
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| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

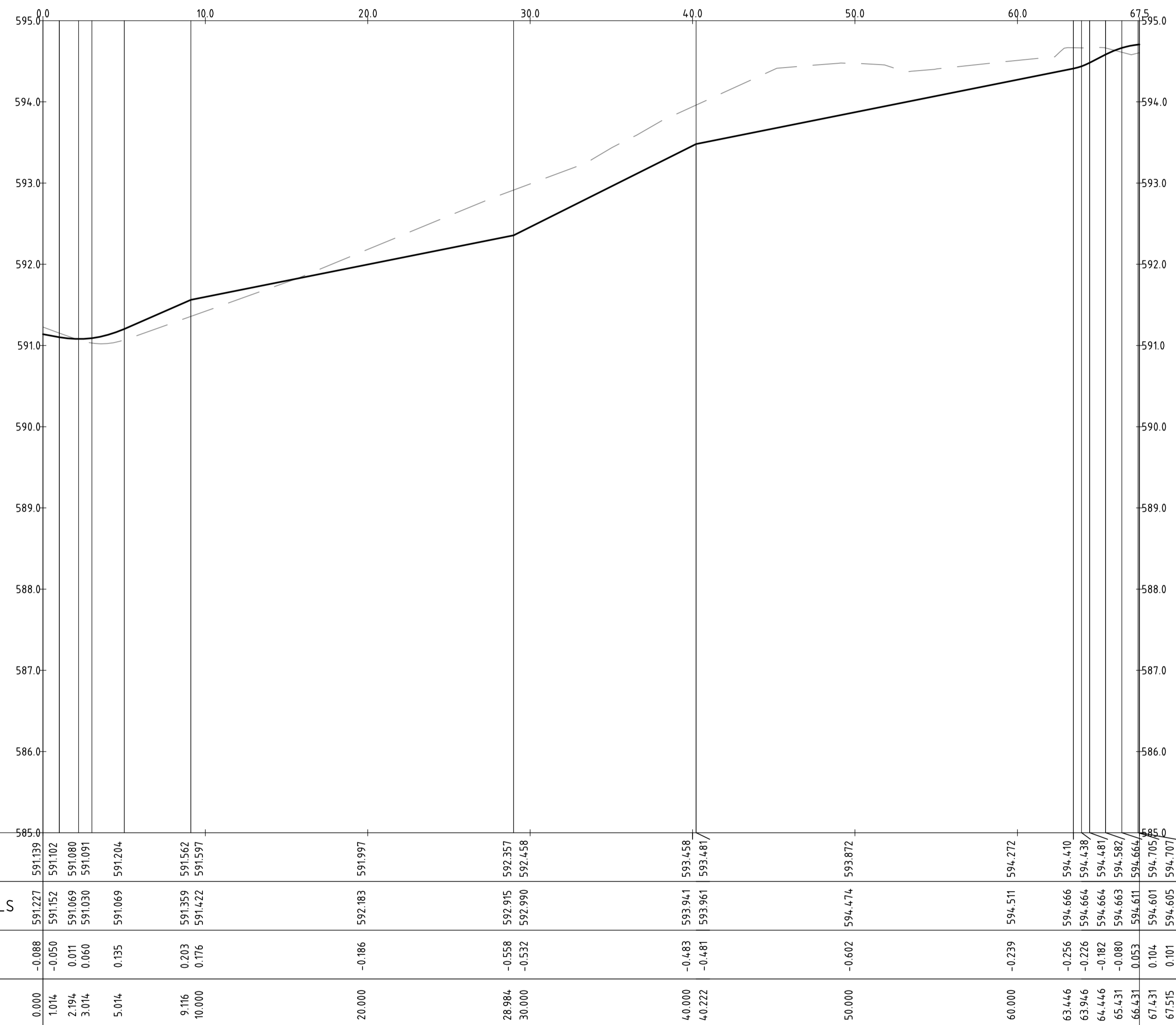
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Client Logo

| | | | |
|-----------------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Drafting Check | DCA |
| | | Design Check | AM |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| KERB RETURN LONGITUDINAL | | | | | |
| SECTIONS SHEET 14 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0184 | A |



PROFILE OF ALIGNMENT KR-22
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 67.515

| | | | |
|-----|-----------------|------------|----------|
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| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

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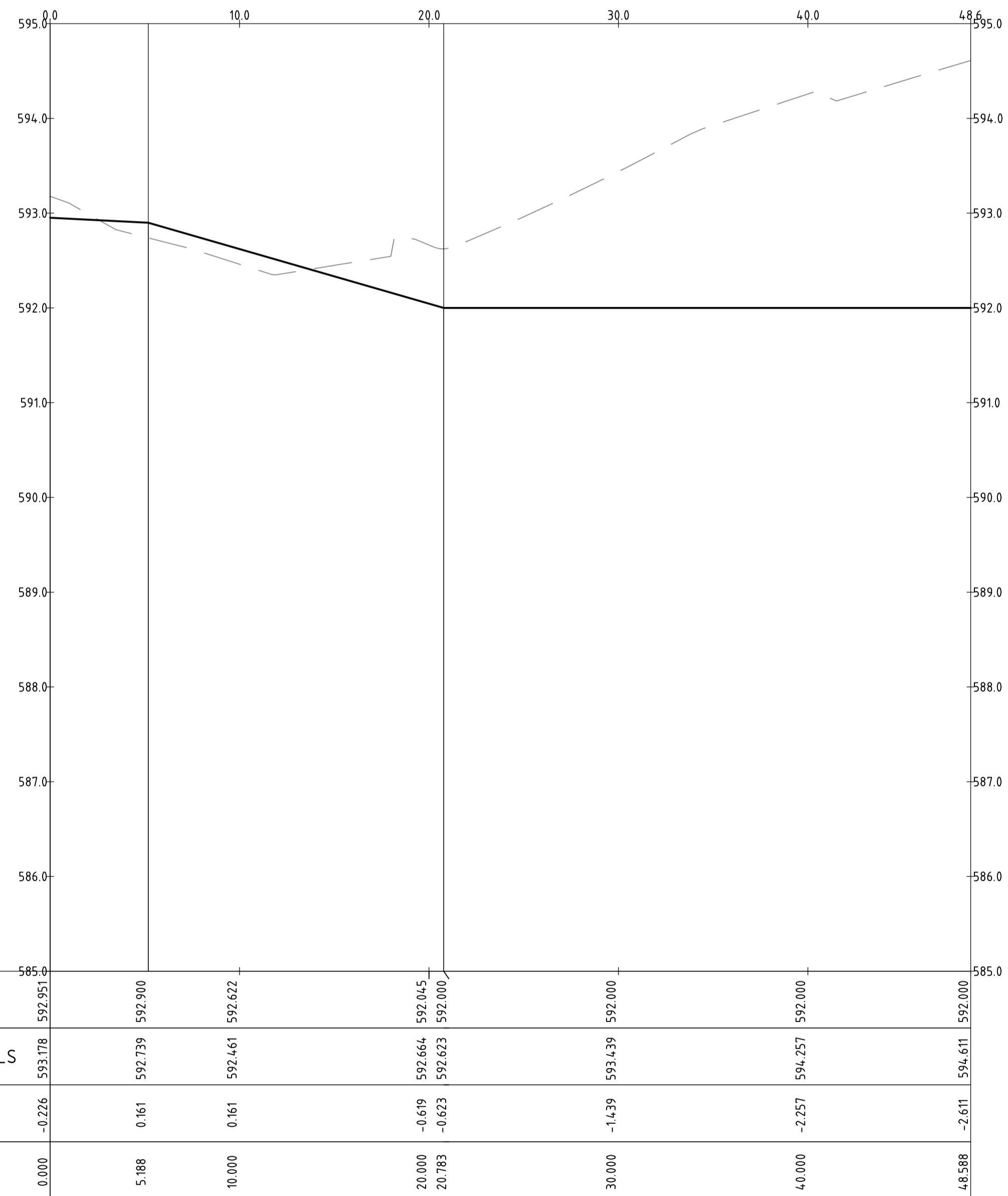
www.sellickconsultants.com.au

Client Logo

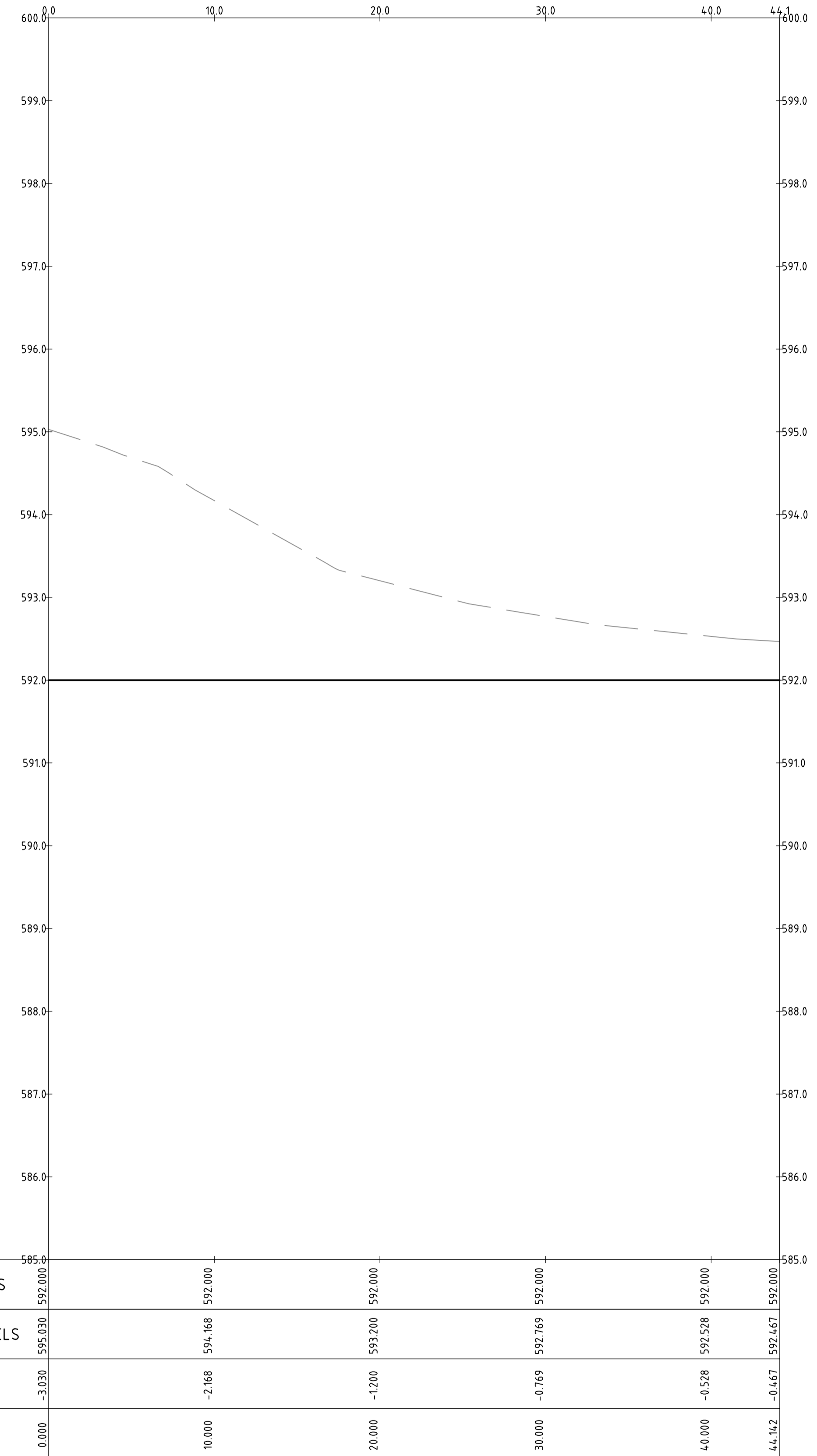
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|----------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Drafting Check | DCA |
| Height Datum | AHD | Design Check | AM |
| | | Approved | BC |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| KERB RETURN LONGITUDINAL | | | | | |
| SECTIONS SHEET 15 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0185 | A |

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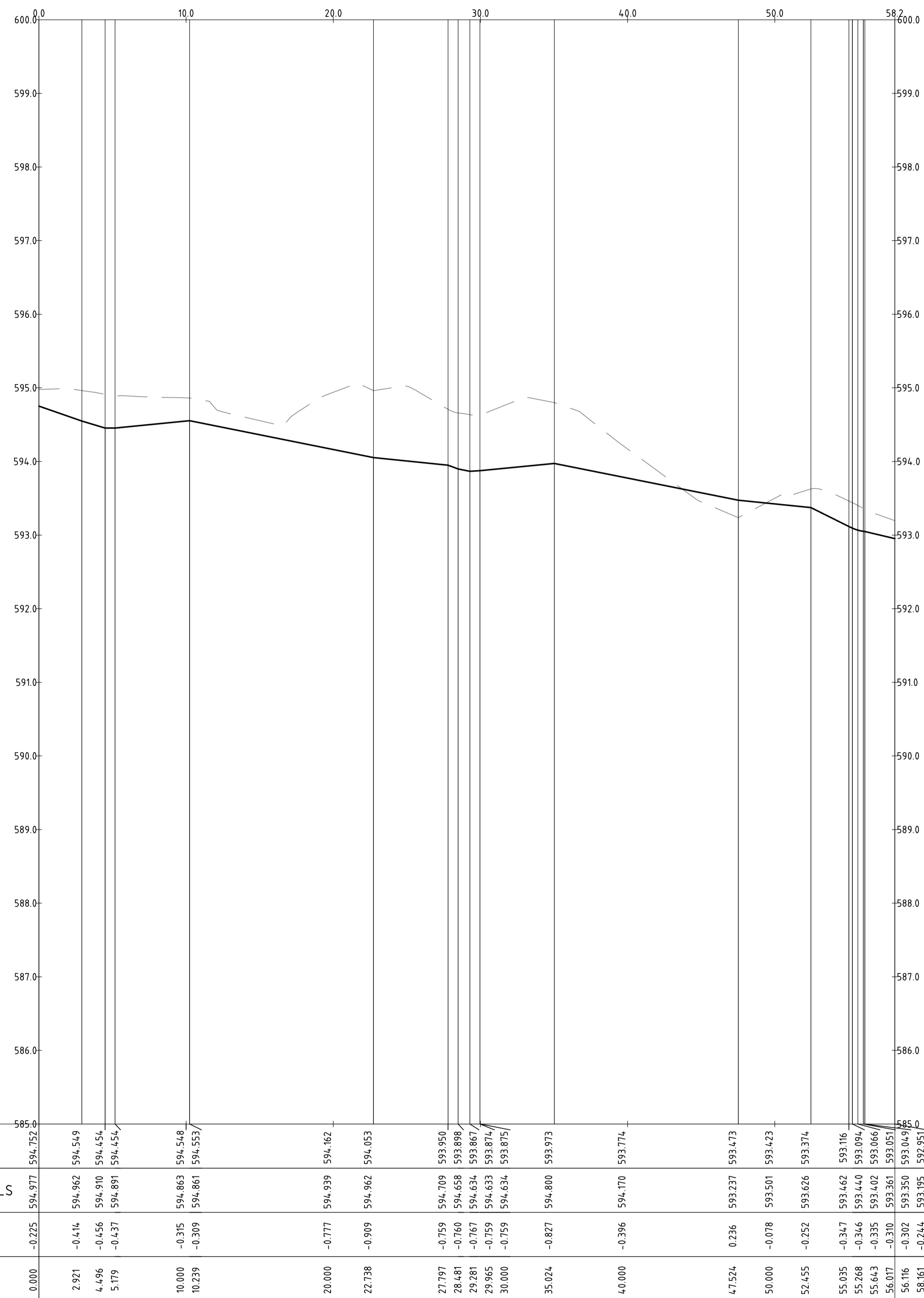


PROFILE OF ALIGNMENT KR-24
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 48.588

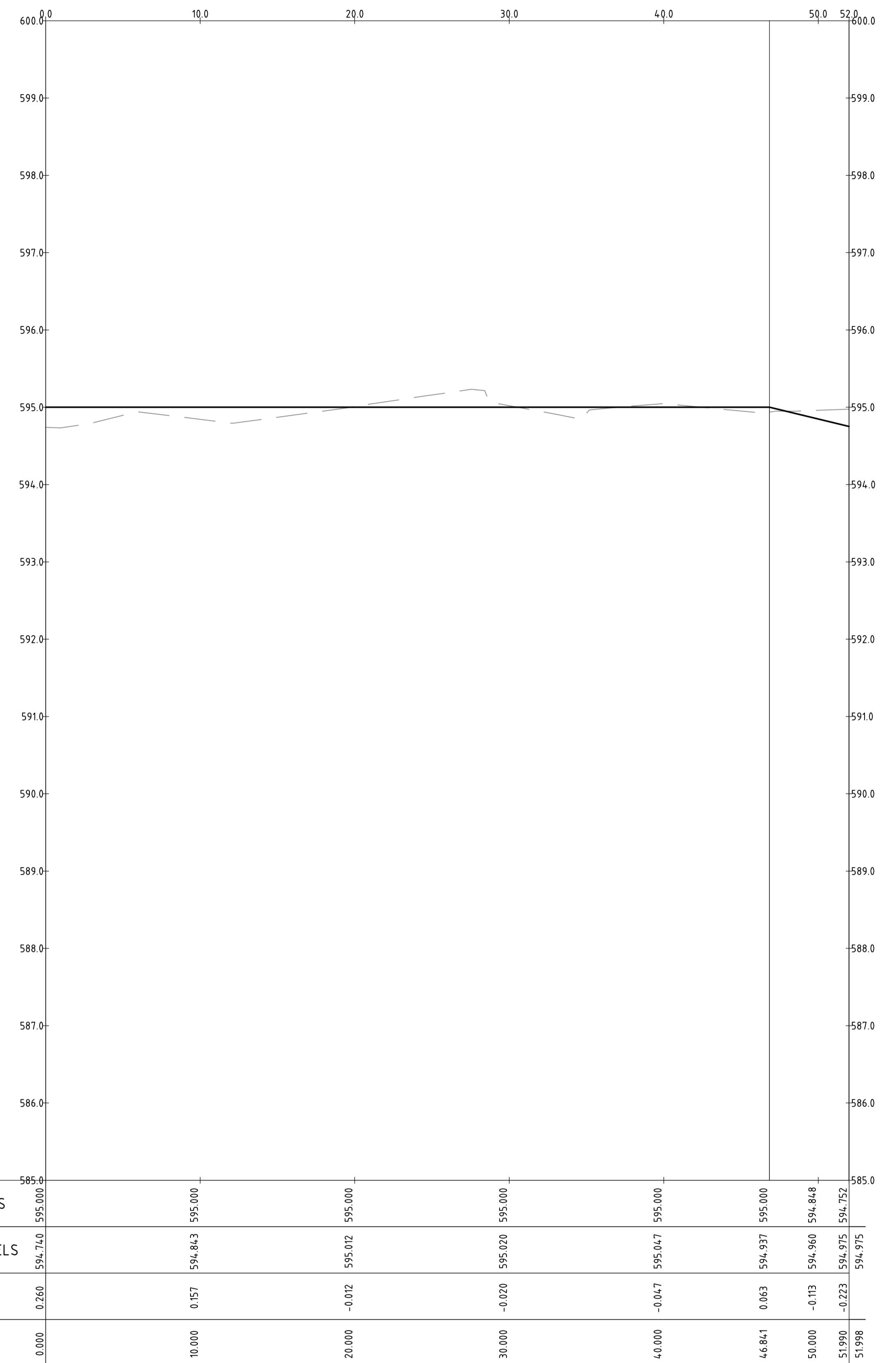


PROFILE OF ALIGNMENT KR-25
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 44.142

| | | | | | | | | | | | | | | | |
|-------------------|--|--|--|-------------------------------|--|---------------------------------------|--|--|--|--------------------|--|-----------------------------------|--|--|--|
| | | Scales 0 5 7.5 10m 1:200 @ A1 | | North | | Status NOT FOR CONSTRUCTION | | Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | |
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| A FOR INFORMATION | | 20.12.2019 | | AM | | Date Plotted 20-Dec-19 | | Designed By LT | | Design Check AM | | Coordinate System STROMLO GRID | | Approved Date 24.08.2018 | |
| Rev | | Description | | Date | | Approved | | Height Datum AHD | | Approved Signature | | Project Number 180658 | | Type DRG | |
| | | | | | | | | | | | | Discipline CIV | | Sub-Discipline AL | |
| | | | | | | | | | | | | Drg No. 0187 | | Rev A | |



PROFILE OF ALIGNMENT KR-26
(VERT SCALE 1:4.0, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 58.161

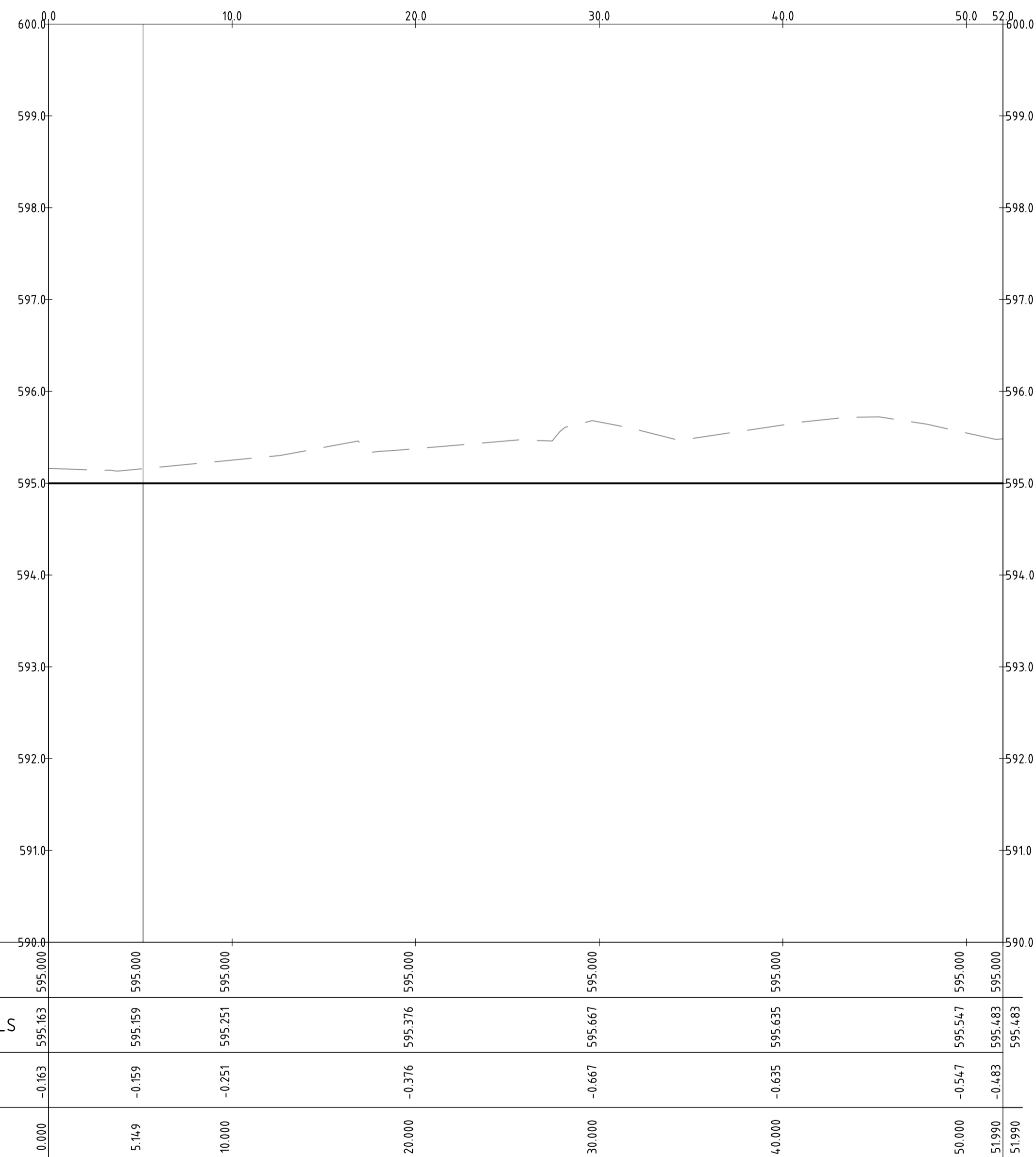


PROFILE OF ALIGNMENT KR-27
(VERT SCALE 1:4.0, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 51.998

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|-------------------------------------|--|------------|--|--|--|--|--|---------------------------------------|--|--------------------|--|--|--|--|--|-------------|--|-------------------|--|----------------------|--|-----------------|--|----------|--|
| | | Scales 0 5 7.5 10m 1:200 @ A1 | | North | |  www.sellickconsultants.com.au | | Client Logo  | | Status NOT FOR CONSTRUCTION | | | | Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | | | | | | | |
| | | | | | | | | | | Original Size A1 | | Drawn By RT | | Drafting Check DCA | | Drawing Title KERB RETURN LONGITUDINAL SECTIONS SHEET 18 | | | | | | | | | | | |
| | | | | | | | | | | Date Plotted 20-Dec-19 | | Designed By LT | | Design Check AM | | | | | | | | | | | | | |
| | | | | | | | | | | Coordinate System STROMLO GRID | | Approved BC | | Approved Date 24.08.2018 | | | | | | | | | | | | | |
| | | | | | | | | | | Height Datum AHD | | Approved Signature | | | | Project Number 180658 | | Type DRG | | Discipline CIV | | Sub-Discipline AL | | Drg No. 0188 | | Rev A | |
| A FOR INFORMATION | | | | 20.12.2019 | | AM | | | | | | | | | | | | | | | | | | | | | |
| Rev Description | | | | Date | | Approved | | | | | | | | | | | | | | | | | | | | | |

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PROFILE OF ALIGNMENT KR-28
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 51.990

| | | | |
|-----|-----------------|------------|----------|
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| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

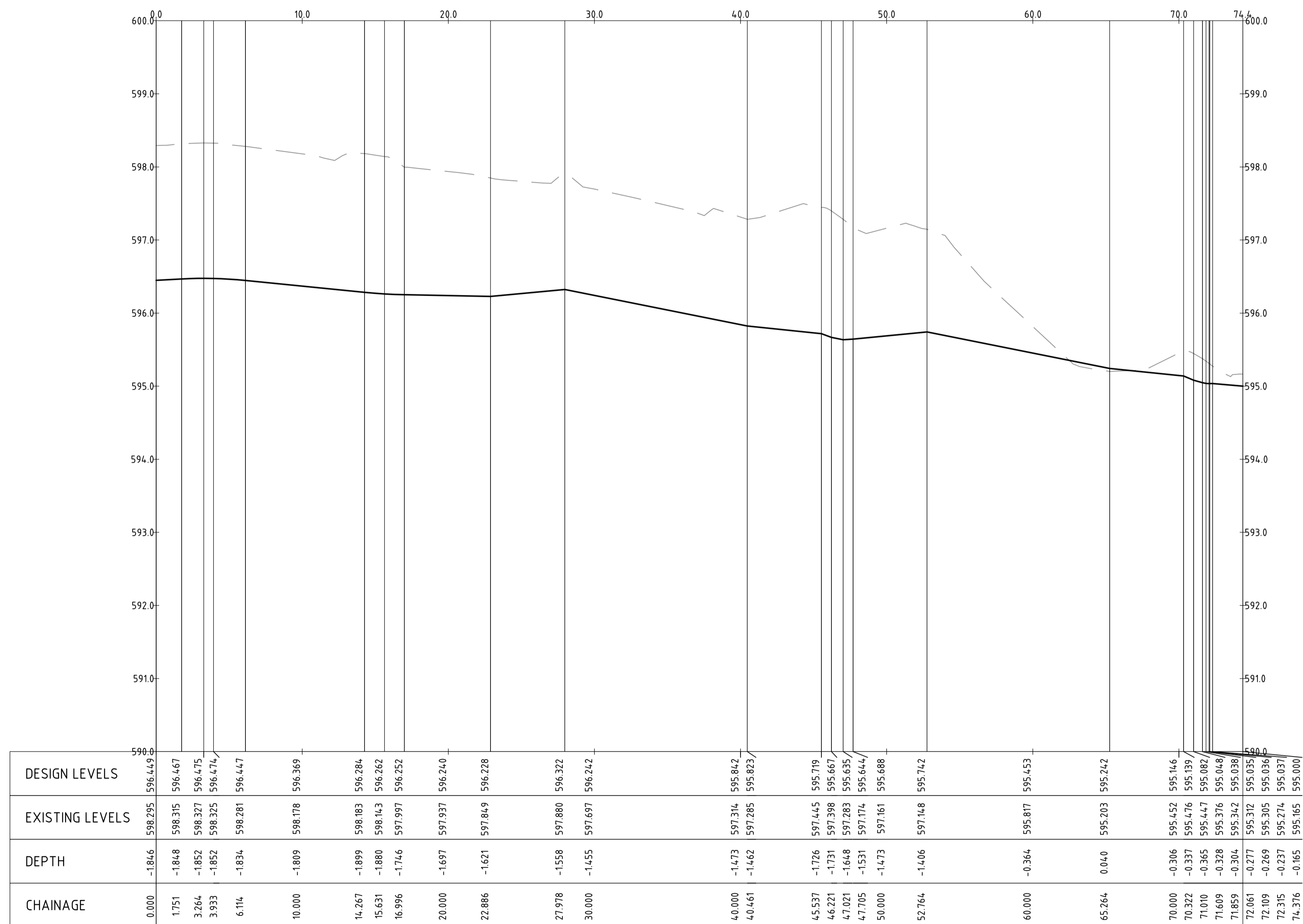
North

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Client Logo

| | | | |
|-----------------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

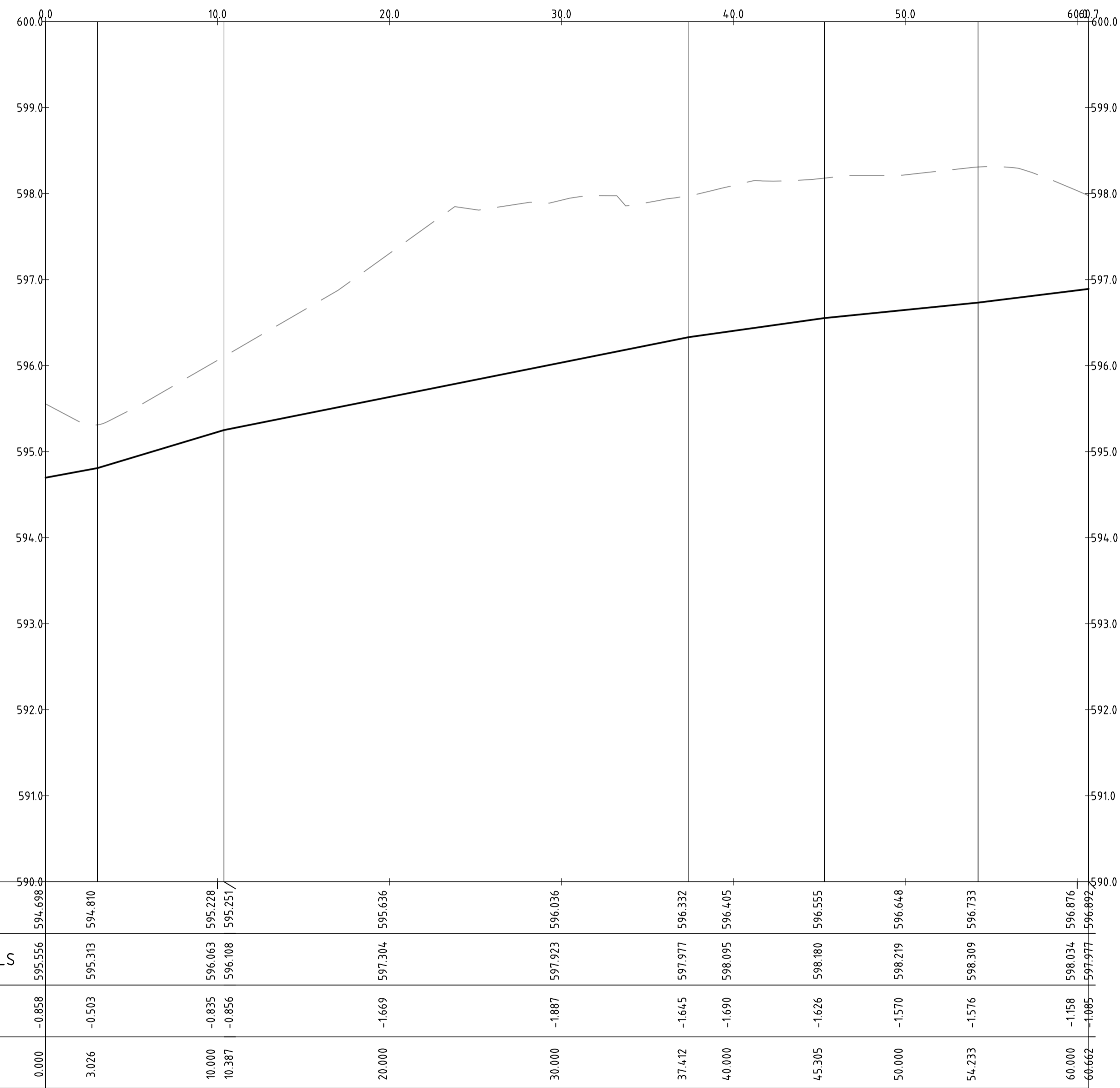
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|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| KERB RETURN LONGITUDINAL | | | | | |
| SECTIONS SHEET 19 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | AL | 0189 | A |



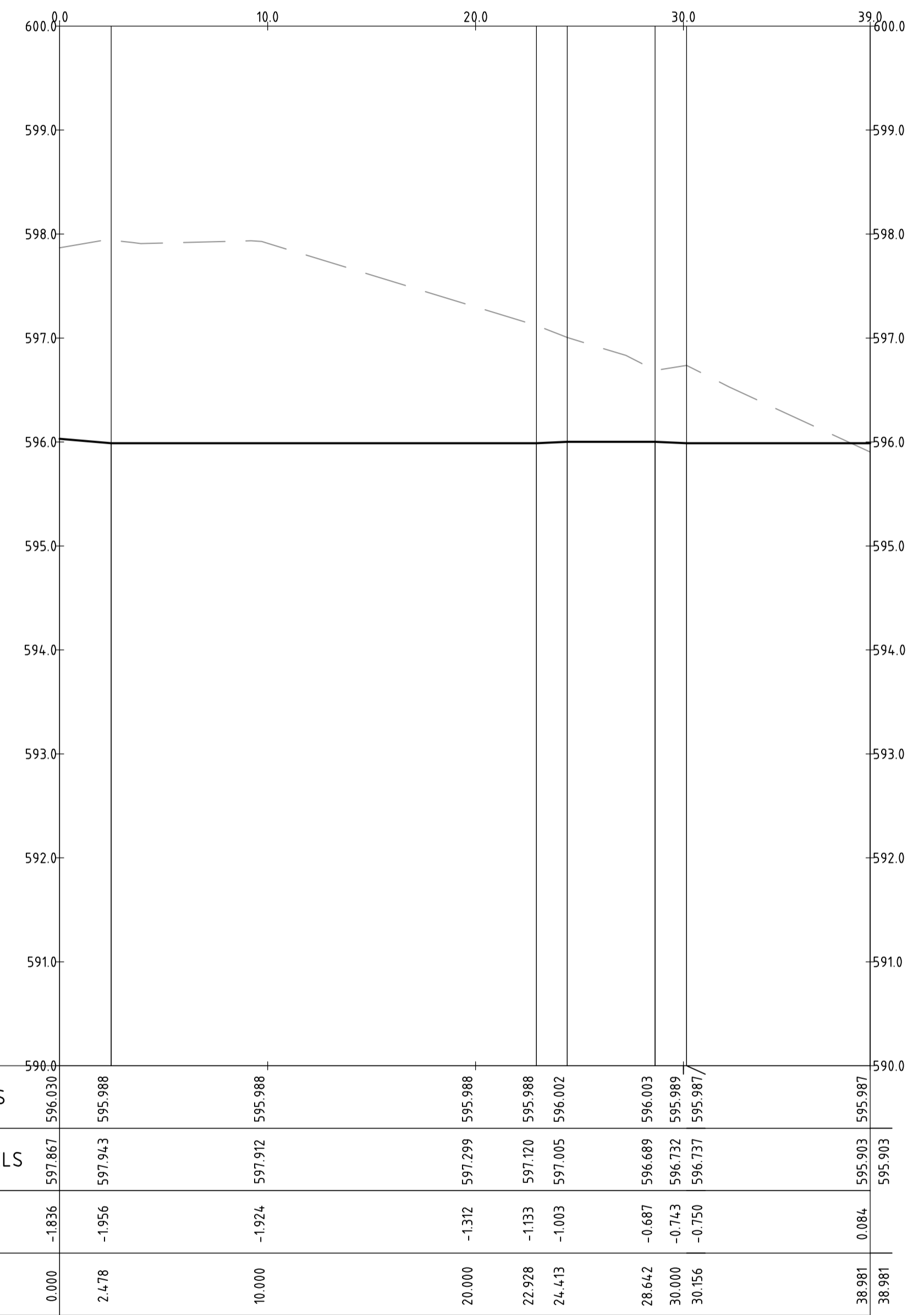
PROFILE OF ALIGNMENT KR-29
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1.5)
FROM: CH 0.000 TO CH 74.376

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|-------------------------------------|--|-------|--|---|--|---------------------------------------|--|--|--|-----------------------------|--|--|--|-------------|--|-------------------|--|----------------------|--|-----------------|--|----------|--|
| | | Scales 0 5 7.5 10m 1:200 @ A1 | | North | | Client Logo  www.sellickconsultants.com.au | | Status NOT FOR CONSTRUCTION | | Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | | | | | | | | | |
| | | | | | | | | Original Size A1 | | Drawn By RT | | Drafting Check DCA | | Drawing Title KERB RETURN LONGITUDINAL SECTIONS SHEET 20 | | | | | | | | | | | |
| | | | | | | | | Date Plotted 20-Dec-19 | | Designed By LT | | Design Check AM | | | | | | | | | | | | | |
| | | | | | | | | Coordinate System STROMLO GRID | | Approved BC | | Approved Date 24.08.2018 | | | | | | | | | | | | | |
| | | | | | | | | Height Datum AHD | | Approved Signature | | | | Project Number 180658 | | Type DRG | | Discipline CIV | | Sub-Discipline AL | | Drg No. 0190 | | Rev A | |
| A FOR INFORMATION | | 20.12.2019 | | AM | | | | | | | | | | | | | | | | | | | | | |
| Rev | | Description | | Date | | Approved | | | | | | | | | | | | | | | | | | | |

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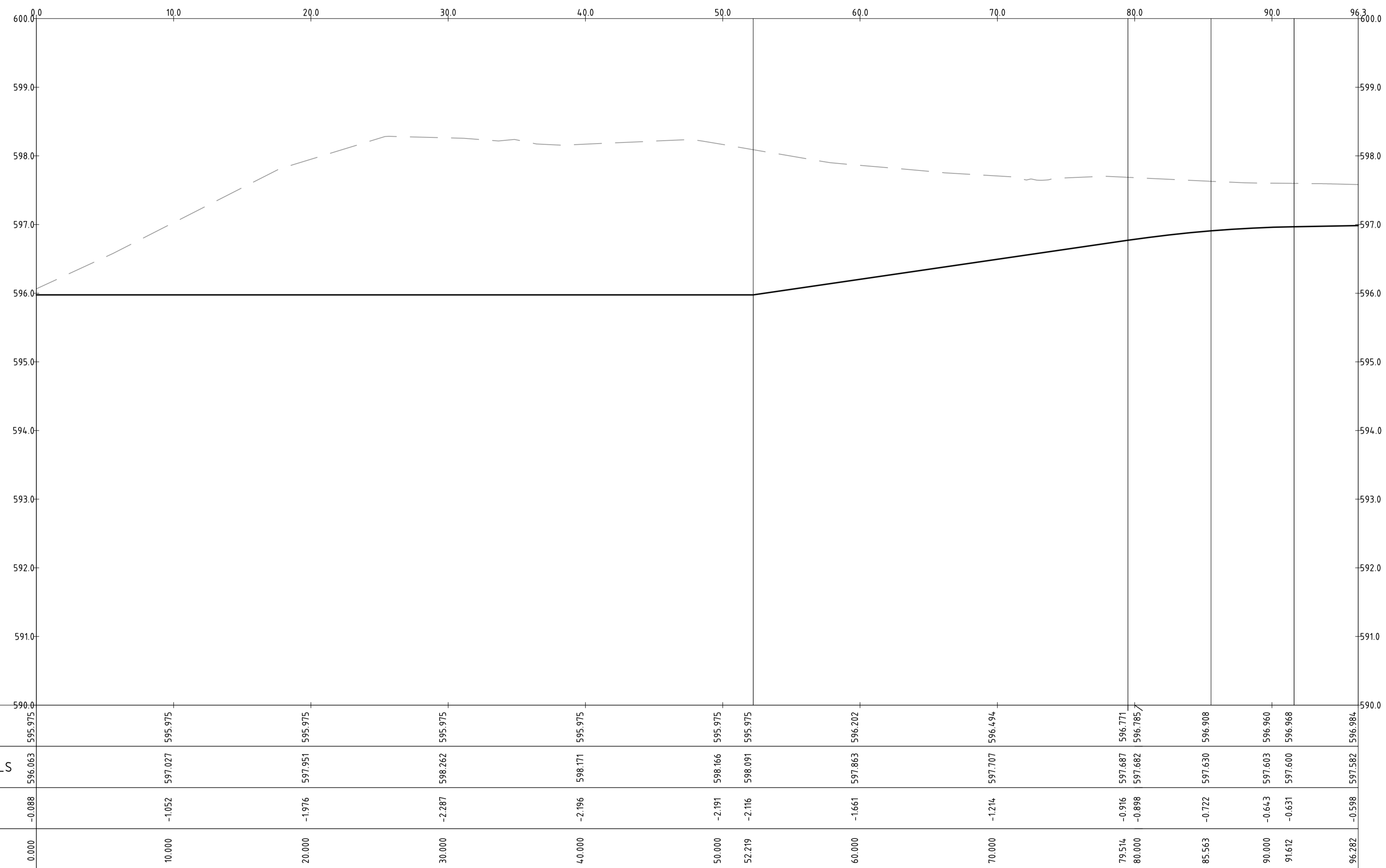
PROFILE OF ALIGNMENT KR-30
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 60.662



PROFILE OF ALIGNMENT KR-31
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 38.981

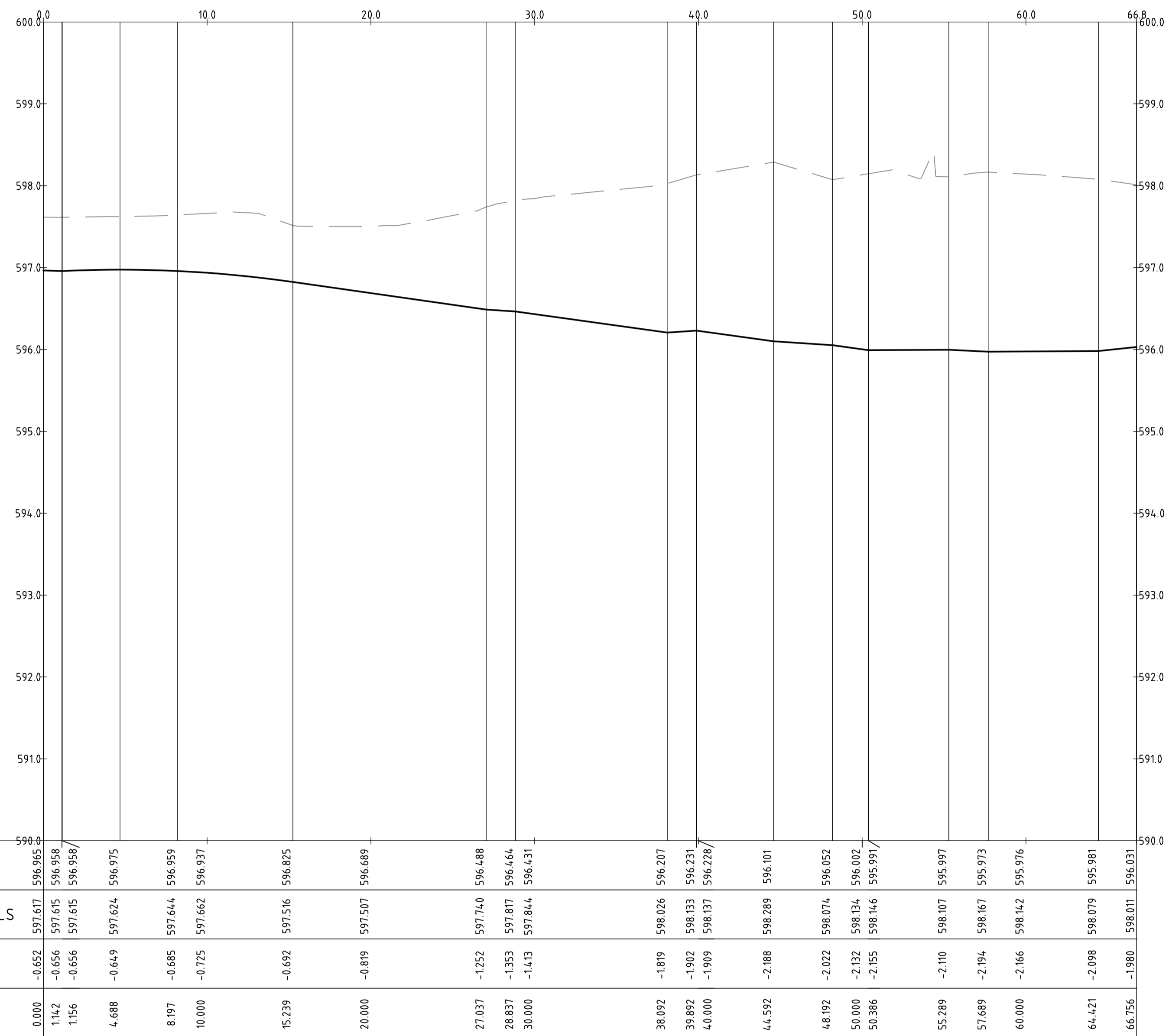
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|---|-----------------|-------------------------------------|----|---|--|--|--|--|--|--|--|--|--|---|--|--|--|
| | | Scales 0 5 7.5 10m 1:200 @ A1 | | North | |  www.sellickconsultants.com.au | | Client Logo  | | Status: NOT FOR CONSTRUCTION Original Size: A1 Date Plotted: 20-Dec-19 Coordinate System: STROMLO GRID Height Datum: AHD | | | | Project Name and Location: RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL Drawing Title: KERB RETURN LONGITUDINAL SECTIONS SHEET 21 Project Number: 180658 Type: DRG Discipline: CIV Sub-Discipline: AL Drg No.: 0191 Rev: A | | | |
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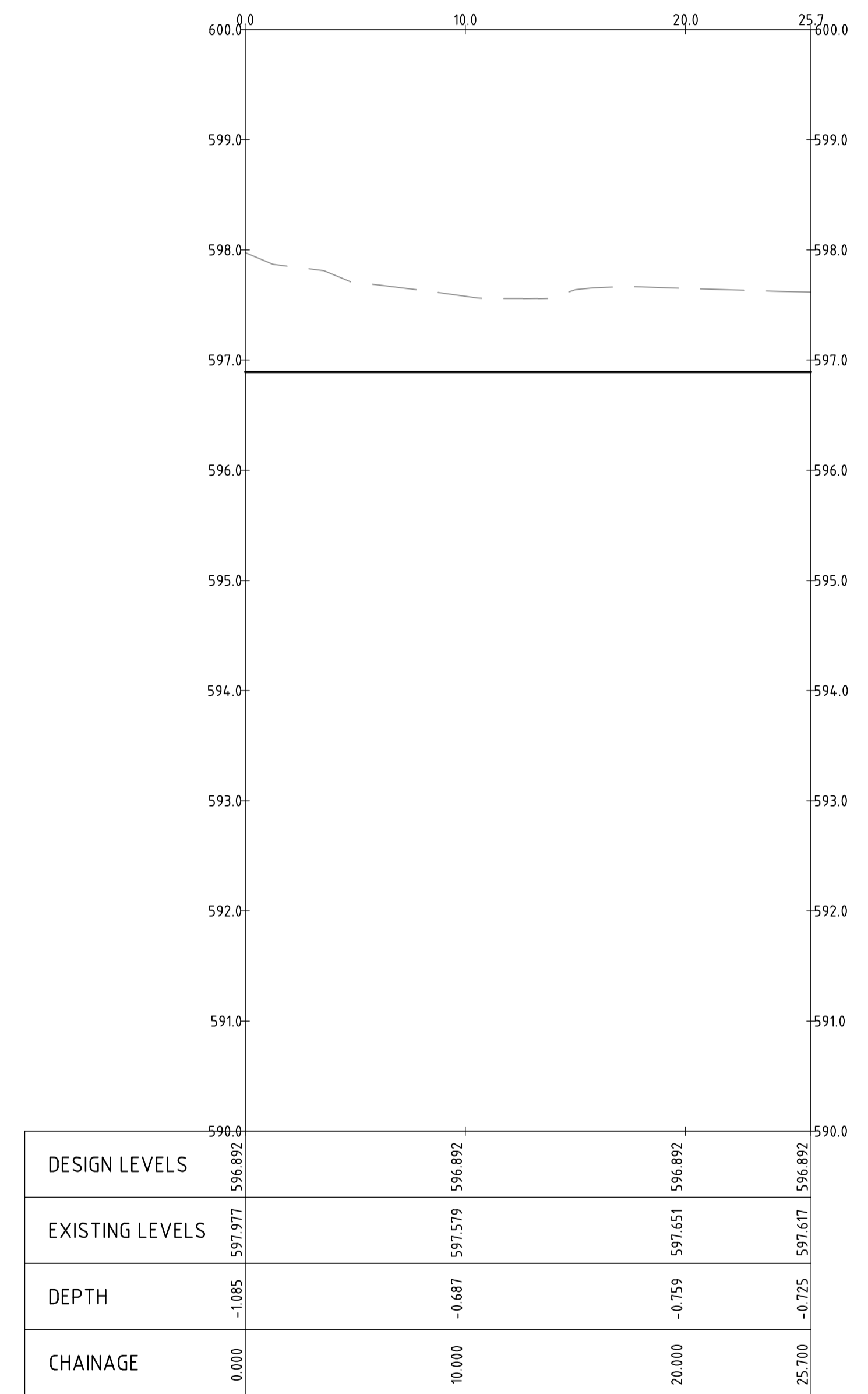


PROFILE OF ALIGNMENT KR-32
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 96.282

| | | | | | | | | | | | | | | | |
|-------------------|--|--|--|-------------------------------|--|-----------------|--|---------------------------------------|--|--|--|-----------------------------|--|--|--|
| | | Scales 0 5 7.5 10m 1:200 @ A1 | | North | | Client Logo | | Status NOT FOR CONSTRUCTION | | Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | |
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| A FOR INFORMATION | | 20.12.2019 | | AM | | | | Date Plotted 20-Dec-19 | | Designed By LT | | Design Check AM | | Project Number 180658 | |
| Rev | | Description | | Date | | Approved | | Coordinate System STROMLO GRID | | Approved BC | | Approved Date 24.08.2018 | | Type DRG | |
| | | | | | | | | Height Datum AHD | | Approved Signature | | Discipline CIV | | Sub-Discipline AL | |
| | | | | | | | | | | | | Drg No. 0192 | | Rev A | |



PROFILE OF ALIGNMENT KR-33
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 66.756



PROFILE OF ALIGNMENT KR-34
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 25.700

| Rev | Description | Date | Approved |
|-----|-----------------|------------|----------|
| A | FOR INFORMATION | 20.12.2019 | AM |

Scales
 0 5 7.5 10m
 1:200 @ A1

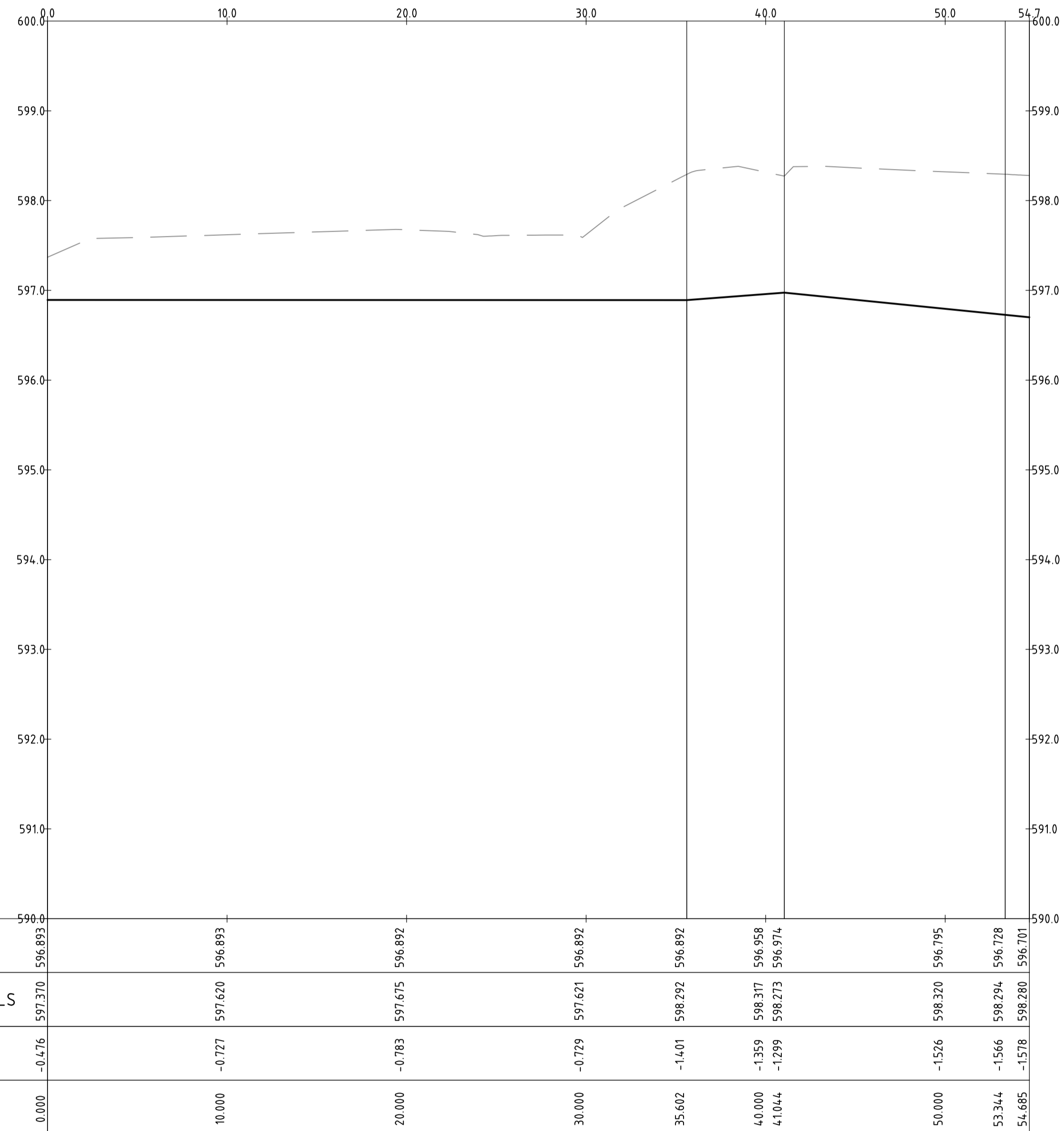
North

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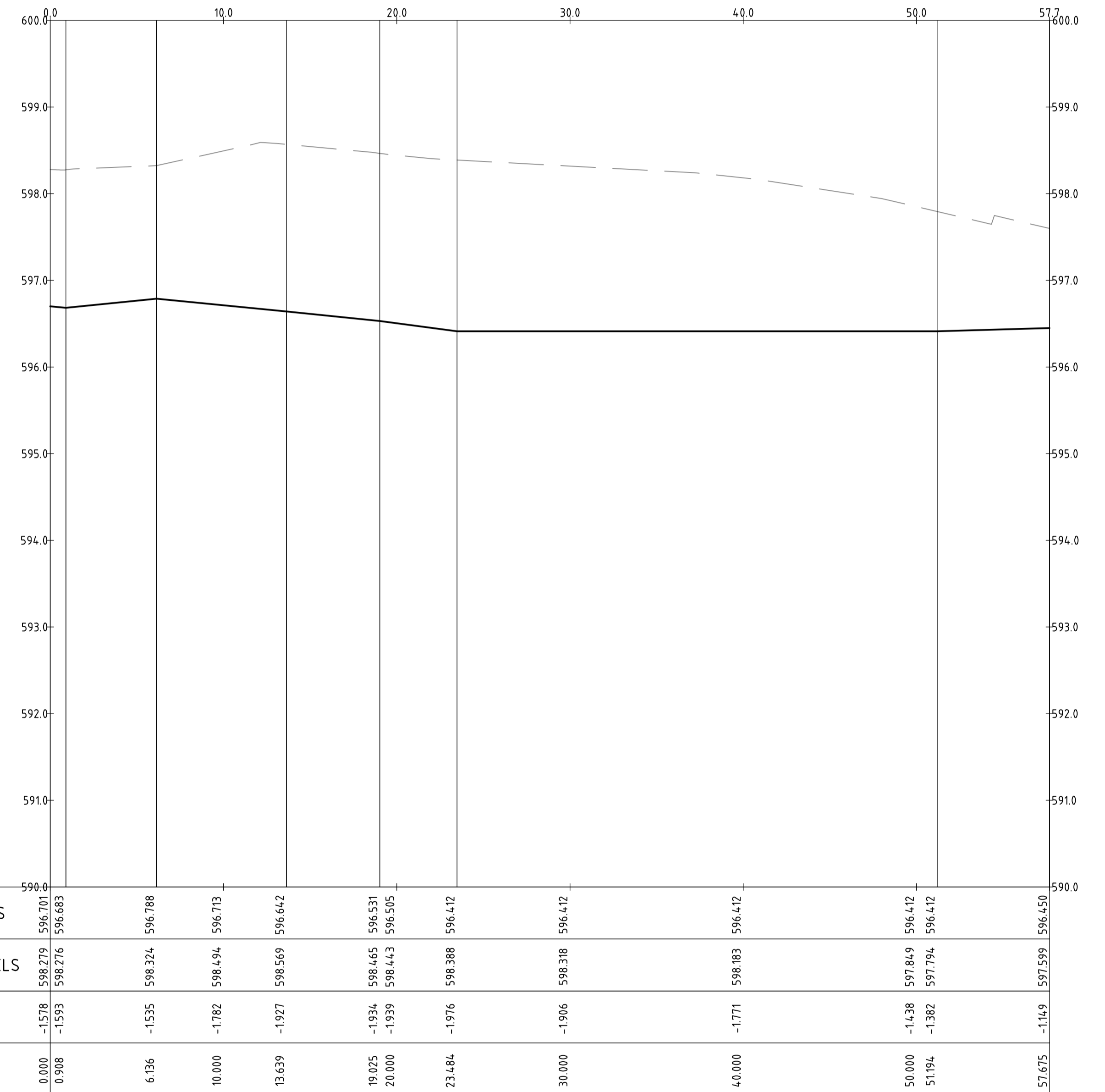


| | | | |
|---------------------------------------|--------------------|-----------------------------|--|
| Status NOT FOR CONSTRUCTION | | | |
| Original Size A1 | Drawn By RT | Drafting Check DCA | |
| Date Plotted 20-Dec-19 | Designed By LT | Design Check AM | |
| Coordinate System STROMLO GRID | Approved BC | Approved Date 24.08.2018 | |
| Height Datum AHD | Approved Signature | | |

| | | | | | |
|--|-------------|-------------------|----------------------|-----------------|----------|
| Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title KERB RETURN LONGITUDINAL SECTIONS SHEET 23 | | | | | |
| Project Number 180658 | Type DRG | Discipline CIV | Sub-Discipline AL | Drg No. 0193 | Rev A |



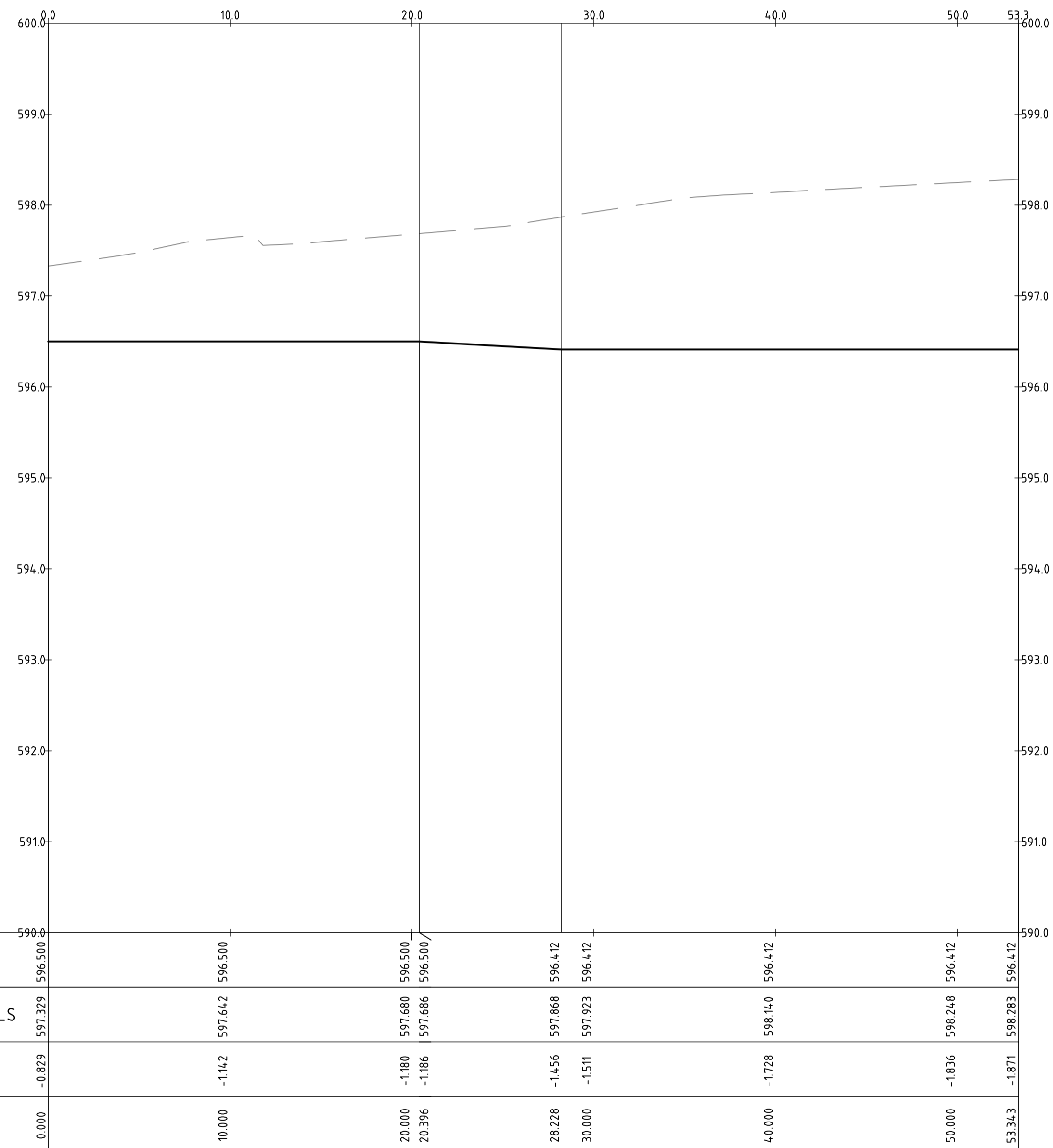
PROFILE OF ALIGNMENT KR-35
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 54.685



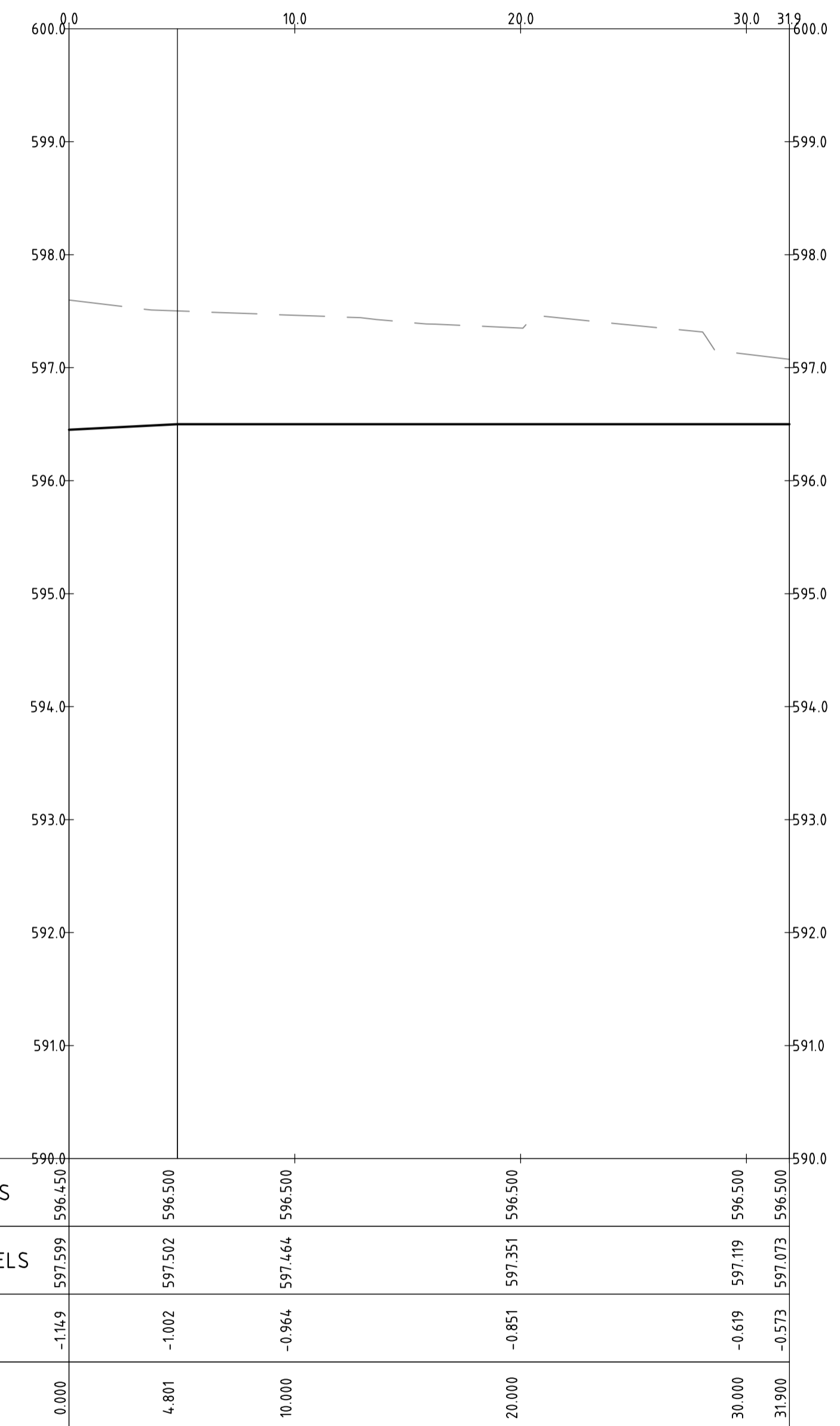
PROFILE OF ALIGNMENT KR-36
 (VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
 FROM: CH 0.000 TO CH 57.675

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|-------------------------------------|--|-------|--|---|--|--|--|---------------------------------------|--|--|--|--------------------------|--|---|--|-------------------|--|----------------------|--|-----------------|--|----------|--|
| | | Scales 0 5 7.5 10m 1:200 @ A1 | | North | |  www.sellickconsultants.com.au | | Client Logo  | | Status NOT FOR CONSTRUCTION | | Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | | | | | | | |
| A FOR INFORMATION | | 20.12.2019 | | AM | | DO NOT SCALE OFF DRAWINGS. VERIFY ALL DIMENSIONS ON SITE PRIOR TO WORK. COPYRIGHT: The contents and information contained in this document are copyright of Sellick Consultants, Use or copy of this document in whole or part without written permission constitutes an infringement of copyright. | | Date Plotted 20-Dec-19 | | Designed By LT | | Drafting Check DCA | | Design Check AM | | Drawing Title KERB RETURN LONGITUDINAL | | | | | | | | | |
| Rev | | Description | | Date | | Approved | | Coordinate System STROMLO GRID | | Approved BC | | Approved Date 24.08.2018 | | Project Number 180658 | | Type DRG | | Discipline CIV | | Sub-Discipline AL | | Drg No. 0194 | | Rev A | |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-al-0195.dwg



PROFILE OF ALIGNMENT KR-37
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 53.343



PROFILE OF ALIGNMENT KR-39
(VERT SCALE 1:40, HOR SCALE 1:200, VERT EXAG 1:5)
FROM: CH 0.000 TO CH 31.900

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--|-------------------------------------|--|------------|--|---|--|--|--|--|--|----------------------------|--|---------------------------------------|--|----------------|--|--|--|--|--|-------------|--|-------------------|--|----------------------|--|-----------------|--|----------|--|
| | | Scales 0 5 7.5 10m 1:200 @ A1 | | North | |  www.sellickconsultants.com.au | | | | Client Logo  | | | | Status NOT FOR CONSTRUCTION | | | | Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | | | | | | | |
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| Rev | | Description | | Date | | Approved | | Date Plotted 20-Dec-19 | | | | Designed By LT | | Design Check AM | | Approved BC | | Approved Date 24.08.2018 | | Project Number 180658 | | Type DRG | | Discipline CIV | | Sub-Discipline AL | | Drg No. 0195 | | Rev A | |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-dwg-civ-ew-0201.dwg

| SURFACE ANALYSIS | | | |
|------------------|-------------|-------------------|-------------------|
| NUMBER | COLOUR | MINIMUM LEVEL (m) | MAXIMUM LEVEL (m) |
| 1 | Red | -7.000 | -6.000 |
| 2 | Red | -6.000 | -5.000 |
| 3 | Red | -5.000 | -4.000 |
| 4 | Red | -4.000 | -3.000 |
| 5 | Red | -3.000 | -2.000 |
| 6 | Red | -2.000 | -1.000 |
| 7 | Red | -1.000 | 0.000 |
| 8 | Light Green | 0.000 | 1.000 |
| 9 | Light Green | 1.000 | 2.000 |
| 10 | Light Green | 2.000 | 3.000 |

BULK EARTHWORKS VOLUMES

CUT: 48,080m³
 FILL: 1,683m³

NOTE:

- ALL BULK VOLUMES ARE SOLID VOLUMES AND DO NOT INCLUDE BULKING FACTORS OR TOPSOIL ALLOWANCE.
- REFER TO ARCHITECTURAL DRAWINGS FOR SETOUT.
- ALL EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3798 WITH MINIMUM COMPACTION OF 95% MMD TO ALL BUILDING PLATFORMS AND ROAD WORKS
- CONTRACTOR TO PROVIDE LEVEL 1 CERTIFICATION OF FILL BY SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.
- CONTRACTOR TO CONFIRM ALL BULK LEVELS PRIOR TO COMMENCEMENT OF EARTHWORKS
- BUILDING OVER EXCAVATION BASED ON 200mm BELOW FFL

BULK EARTHWORK NOTES

STRIPPING

1. SITE SHOULD BE STRIPPED AND REINSTATED PROGRESSIVELY AS REQUIRED (MINIMISE EXPOSED SURFACES).
2. STRIP ALL GRASS COVER AND TOP SOIL TO EXPOSE UNDERLYING SOIL IN AREAS TO BE REGRADED.
3. TOP SOIL TO BE STOCKPILED FOR FUTURE USE IN LANDSCAPING.

FILL PLATFORMS

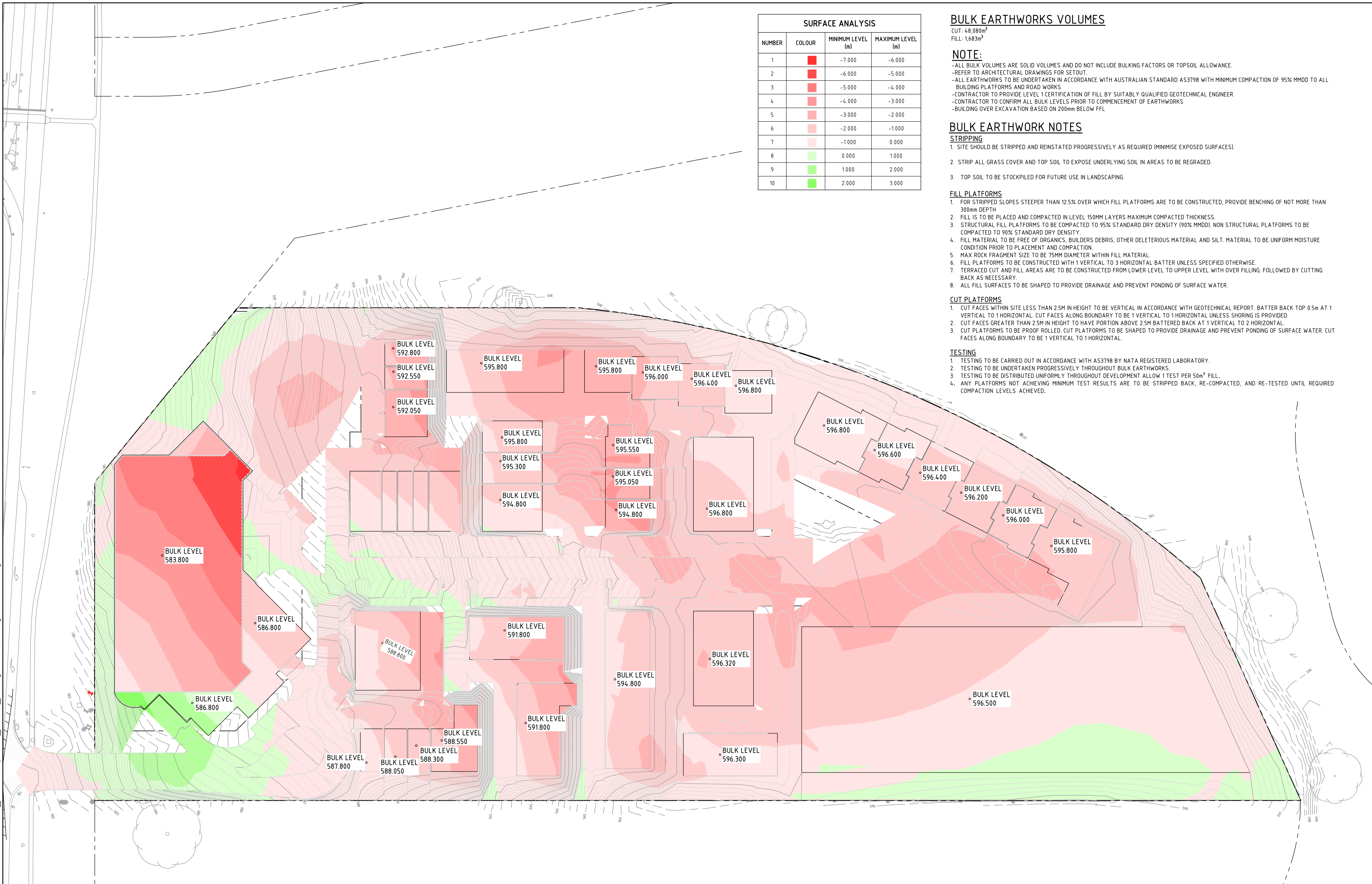
1. FOR STRIPPED SLOPES STEEPER THAN 12.5% OVER WHICH FILL PLATFORMS ARE TO BE CONSTRUCTED, PROVIDE BENCHING OF NOT MORE THAN 300mm DEPTH
2. FILL IS TO BE PLACED AND COMPACTED IN LEVEL 150MM LAYERS MAXIMUM COMPACTED THICKNESS.
3. STRUCTURAL FILL PLATFORMS TO BE COMPACTED TO 95% STANDARD DRY DENSITY (90% MMD). NON STRUCTURAL PLATFORMS TO BE COMPACTED TO 90% STANDARD DRY DENSITY.
4. FILL MATERIAL TO BE FREE OF ORGANICS, BUILDERS DEBRIS, OTHER DELETERIOUS MATERIAL AND SILT. MATERIAL TO BE UNIFORM MOISTURE CONDITION PRIOR TO PLACEMENT AND COMPACTION.
5. MAX ROCK FRAGMENT SIZE TO BE 75MM DIAMETER WITHIN FILL MATERIAL.
6. FILL PLATFORMS TO BE CONSTRUCTED WITH 1 VERTICAL TO 3 HORIZONTAL BATTER UNLESS SPECIFIED OTHERWISE.
7. TERRACED CUT AND FILL AREAS ARE TO BE CONSTRUCTED FROM LOWER LEVEL TO UPPER LEVEL WITH OVER FILLING. FOLLOWED BY CUTTING BACK AS NECESSARY.
8. ALL FILL SURFACES TO BE SHAPED TO PROVIDE DRAINAGE AND PREVENT PONDING OF SURFACE WATER.

CUT PLATFORMS

1. CUT FACES WITHIN SITE LESS THAN 2.5M IN HEIGHT TO BE VERTICAL IN ACCORDANCE WITH GEOTECHNICAL REPORT. BATTER BACK TOP 0.5m AT 1 VERTICAL TO 1 HORIZONTAL. CUT FACES ALONG BOUNDARY TO BE 1 VERTICAL TO 1 HORIZONTAL UNLESS SHORING IS PROVIDED.
2. CUT FACES GREATER THAN 2.5M IN HEIGHT TO HAVE PORTION ABOVE 2.5M BATTERED BACK AT 1 VERTICAL TO 2 HORIZONTAL.
3. CUT PLATFORMS TO BE PROOF ROLLED. CUT PLATFORMS TO BE SHAPED TO PROVIDE DRAINAGE AND PREVENT PONDING OF SURFACE WATER. CUT FACES ALONG BOUNDARY TO BE 1 VERTICAL TO 1 HORIZONTAL.

TESTING

1. TESTING TO BE CARRIED OUT IN ACCORDANCE WITH AS3798 BY NATA REGISTERED LABORATORY.
2. TESTING TO BE UNDERTAKEN PROGRESSIVELY THROUGHOUT BULK EARTHWORKS.
3. TESTING TO BE DISTRIBUTED UNIFORMLY THROUGHOUT DEVELOPMENT ALLOW 1 TEST PER 50m² FILL.
4. ANY PLATFORMS NOT ACHIEVING MINIMUM TEST RESULTS ARE TO BE STRIPPED BACK, RE-COMPACTED, AND RE-TESTED UNTIL REQUIRED COMPACTION LEVELS ACHIEVED.



| Rev | Description | Date | Approved |
|-----|--------------------------------|------------|----------|
| F | FOR INFORMATION | 20.12.2019 | AM |
| E | REVISED FOR NCA CONCEPT PLAN | 21.05.2019 | BC |
| D | NCA CONCEPT PLAN | 25.01.2019 | BC |
| C | NCA CONCEPT PLAN | 22.01.2019 | BC |
| B | FOR INFORMATION (CONCEPT ONLY) | 16.10.18 | BC |
| A | FOR INFORMATION (CONCEPT ONLY) | 03.10.18 | BC |

Scales

0 5 7.5 10 12.5m

1:250 @ A1

North

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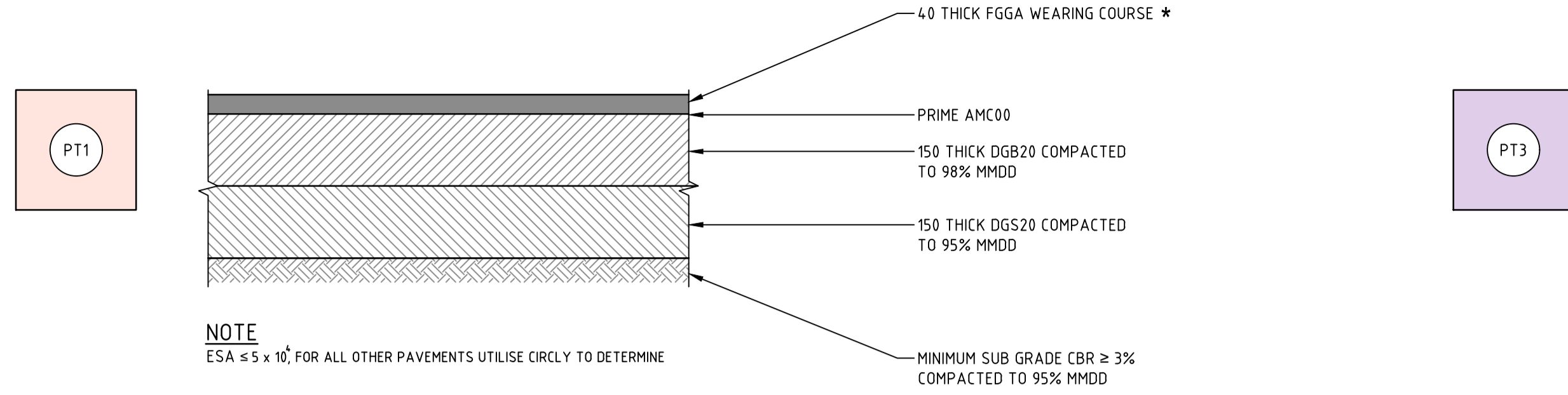
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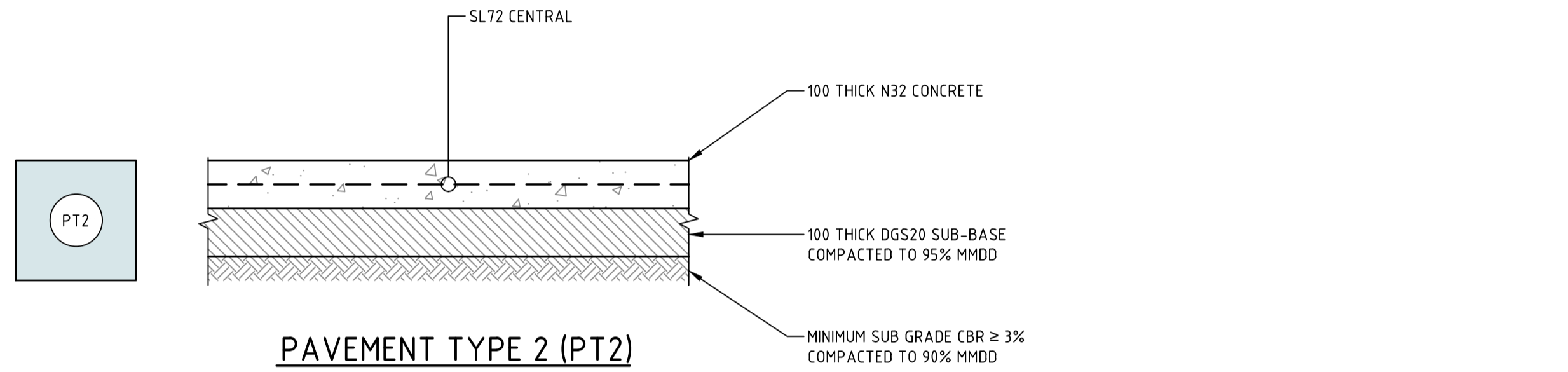
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| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| Project Name and Location | | | | | | |
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| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| EARTHWORKS PLAN | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drw No. | Rev | |
| 180658 | DRG | CIV | EW | 0201 | F | |

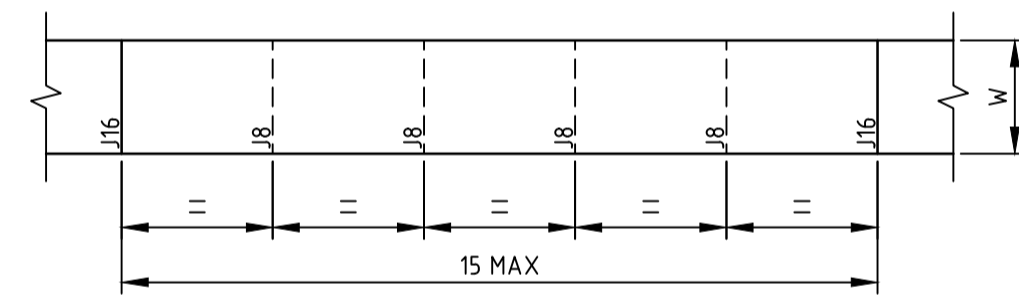
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PAVEMENT TYPE 1 (PT1)
ASPHALTIC CONCRETE
SCALE 1:10



PAVEMENT TYPE 2 (PT2)
100 THICK REINFORCED CONCRETE PATH
SCALE 1:10



NOTE
W = 15m WIDE UNLESS NOTED OTHERWISE.

PATH JOINTING PLAN
SCALE 1:100

PAVEMENT TYPE 3 (PT3) CONCRETE PAVEMENT
PAVEMENT TO BE IN ACCORDANCE WITH LANDSCAPE ARCHITECTS DOCUMENTATION

PAVEMENT NOTES

- # FOR CONCRETE PAVEMENTS SUBJECT TO FORKLIFT LOADS, CONCRETE SHALL BE N40 MPa TO ACHIEVE DURABILITY UNDER THE AUSTRALIAN STANDARD.
 - * AISE PMB SHALL BE ADDED AT ALL INTERSECTIONS AND ROUNDABOUTS (TO THE TP ON ALL LEGS)
- FOR CONCRETE NOTES REFER GN-0002

PAVEMENT TYPE 4 (PT4) PODIUM SLAB
PODIUM SLAB TO BE IN ACCORDANCE WITH STRUCTURAL ENGINEERS DOCUMENTATION

PATH NOTES

1. EXPANSION JOINTS (J16) ARE TO BE SEALED WITH 12mm JOINTEX FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. E.J.'s TO BE LOCATED AT ALL DRAINAGE STRUCTURES (BOTH SIDES), ON TP'S OF CURVES AND ELSEWHERE AT MAXIMUM 6.0m CENTRES
2. WEAKENED PLANE JOINTS (J8) ARE TO BE 3mm WIDE TO 1/4 DEPTH FOR EXTRUDE WORK AND TO THE FULL DEPTH OF FORMED SECTIONS.
3. BRUSH FINISH "NON-SKID" TO ALL PRAM RAMPS AND VEHICULAR CROSSINGS. ALL OTHER KERBING OF OPEN DRAINS TO BE STEEL FLOAT FINISHED.
4. ALL JOINTS TO BE PERPENDICULAR TO THE PATH EDGE AND FINISHED WITH 5.0mm EDGE TOOL.
5. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING OR ADJACENT PAVEMENT JOINTS.
6. ALL SUB-BASE LAYERS SHALL BE FINISHED TO ENSURE A TIGHT LEVEL SURFACE. MAXIMUM DEVIATION IS TO BE 5.0mm OVER A 3.0m STRAIGHT EDGE.
7. ALL TEST HOLES IN THE SUB-BASE/ BASE LAYERS ARE TO BE RIPPED AND RE-COMPACTED TO ENSURE A HOMOGENOUS LAYER.
8. PATH WIDTH (W) SHALL BE MEASURED FROM THE BACK OF KERB WHEN THE PATH IS DESIGNED TO BE AGAINST THE BACK OF KERB.
9. FOR CONCRETE NOTES REFER GN-0002

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| Rev | Description | Date | Approved |

Scales
 0 100 200 300 400 500mm
 1:10 @ A1
 0 2 3 4 5m
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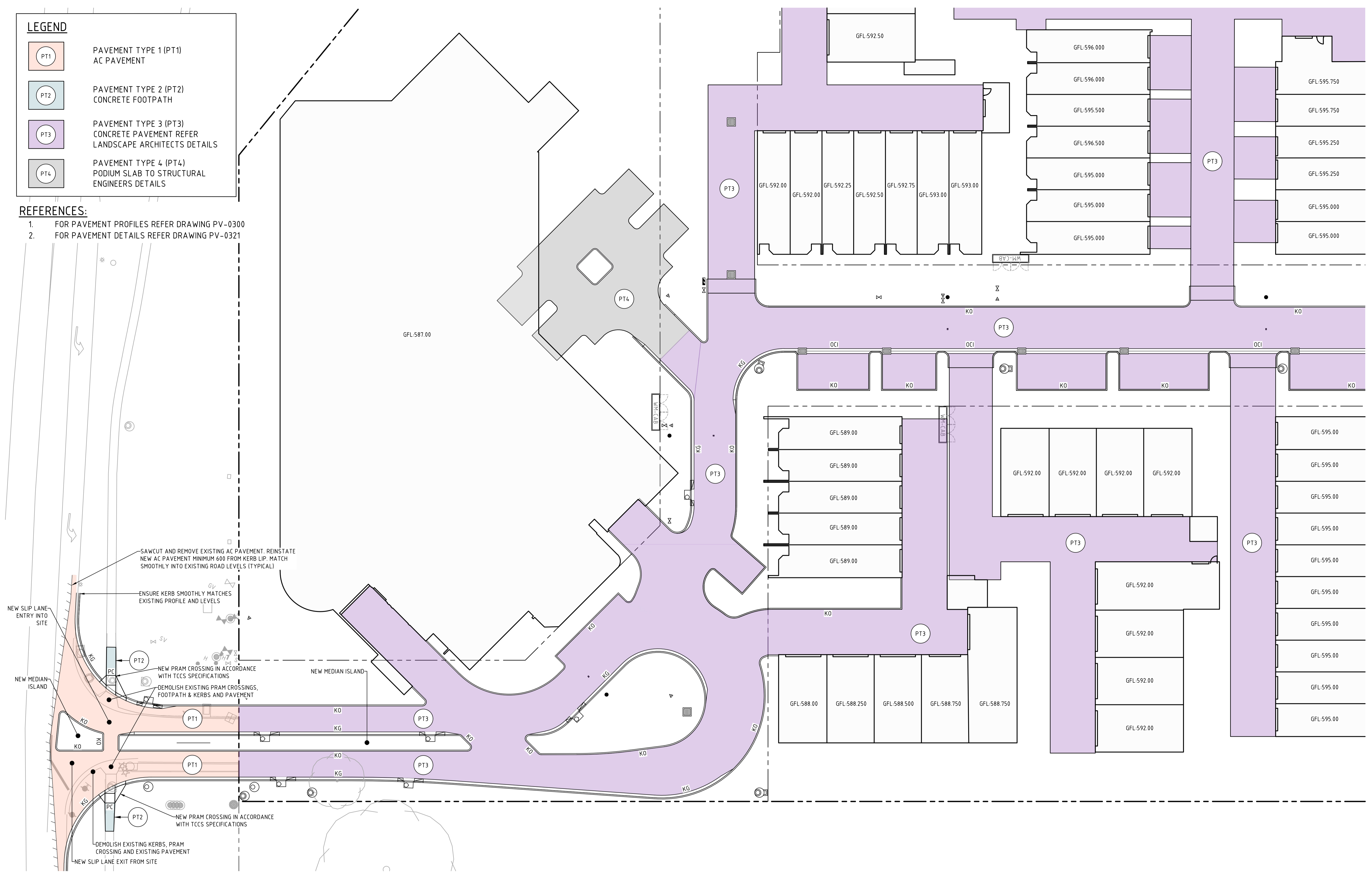
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| Drawing Title PAVEMENT PROFILES | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | PV | 0300 | A |

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LEGEND

- PT1 PAVEMENT TYPE 1 (PT1)
AC PAVEMENT
- PT2 PAVEMENT TYPE 2 (PT2)
CONCRETE FOOTPATH
- PT3 PAVEMENT TYPE 3 (PT3)
CONCRETE PAVEMENT REFER
LANDSCAPE ARCHITECTS DETAILS
- PT4 PAVEMENT TYPE 4 (PT4)
PODIUM SLAB TO STRUCTURAL
ENGINEERS DETAILS

- REFERENCES:**
1. FOR PAVEMENT PROFILES REFER DRAWING PV-0300
 2. FOR PAVEMENT DETAILS REFER DRAWING PV-0321



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| Rev | Description | Date | Approved |

Scales

0 5 7.5 10 12.5m

1:250 @ A1

North

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| | | Design Check | AM |
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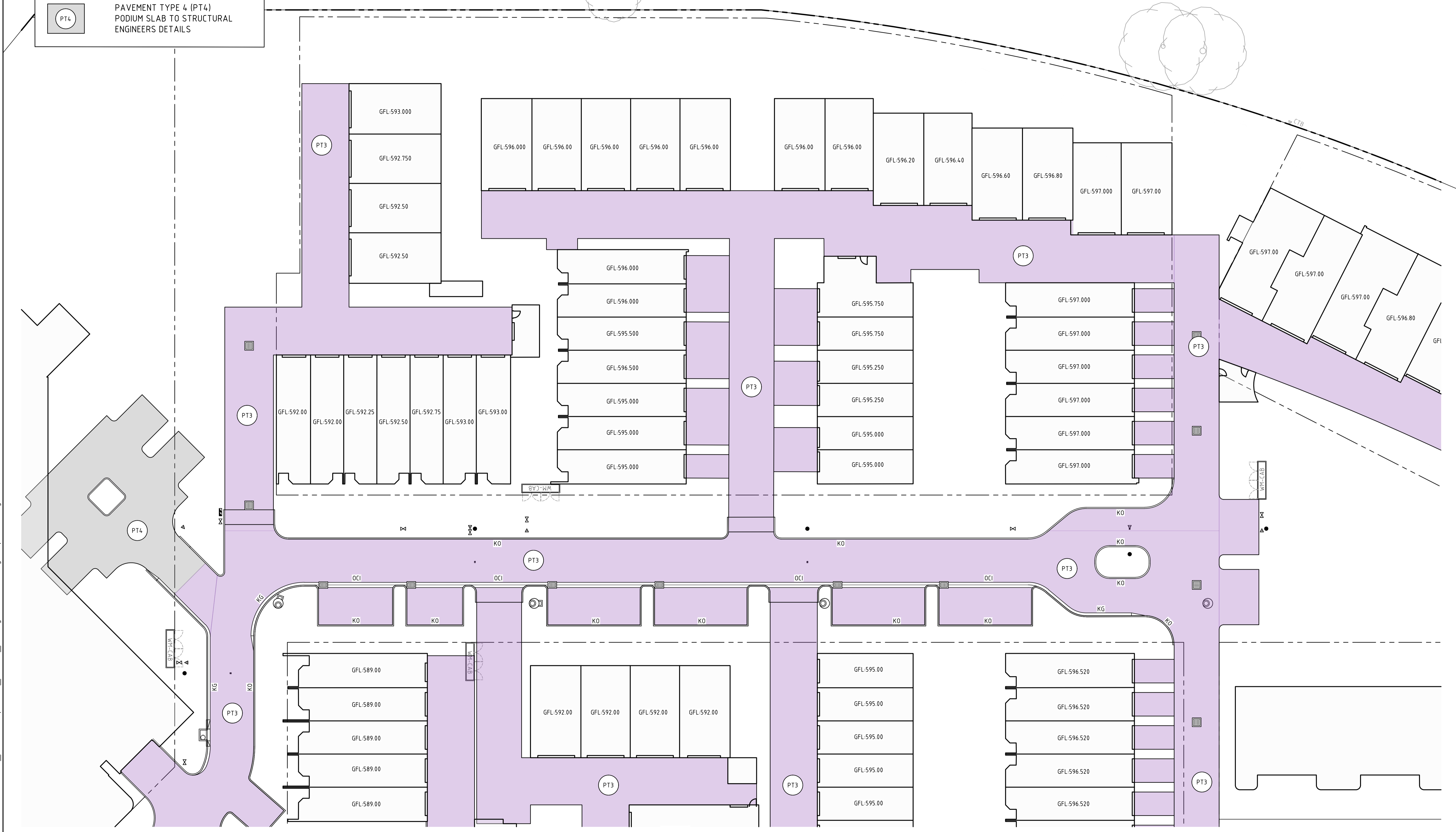
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| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title PAVEMENT PLAN | | | | | |
| SHEET 1 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | PV | 0301 | A |

LEGEND

- PT3 PAVEMENT TYPE 3 (PT3)
CONCRETE PAVEMENT REFER
LANDSCAPE ARCHITECTS DETAILS
- PT4 PAVEMENT TYPE 4 (PT4)
PODIUM SLAB TO STRUCTURAL
ENGINEERS DETAILS

REFERENCES:

1. FOR PAVEMENT PROFILES REFER DRAWING PV-0300
2. FOR PAVEMENT DETAILS REFER DRAWING PV-0321



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| Rev | Description | Date | Approved |

Scales

0 5 7.5 10 12.5m

1:250 @ A1

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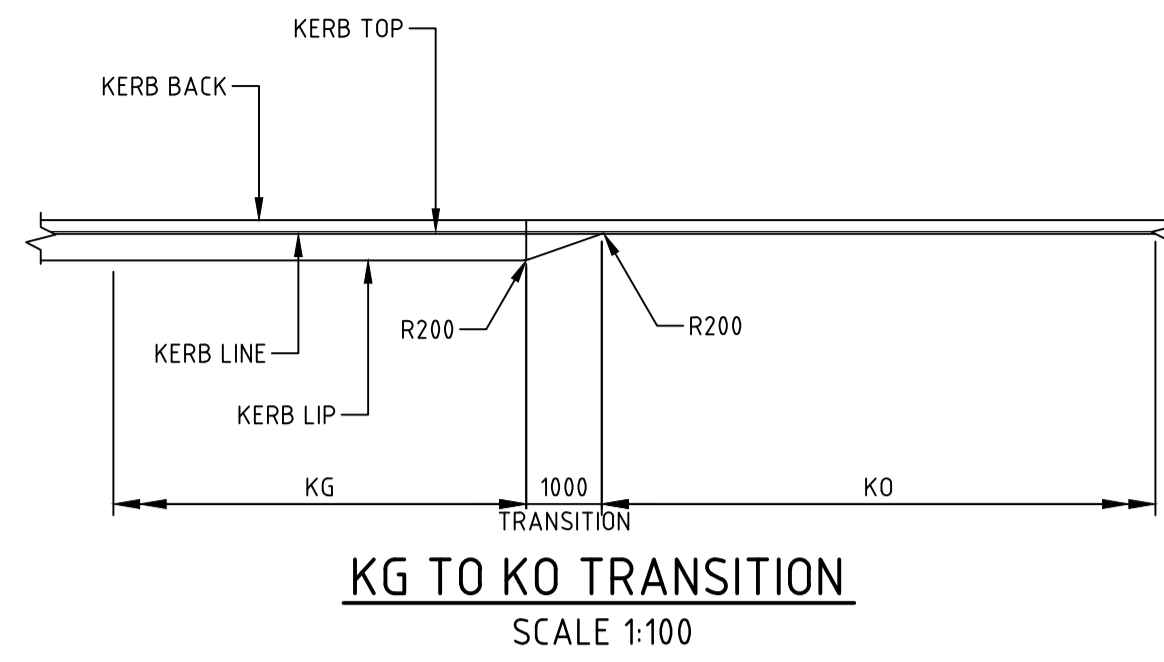
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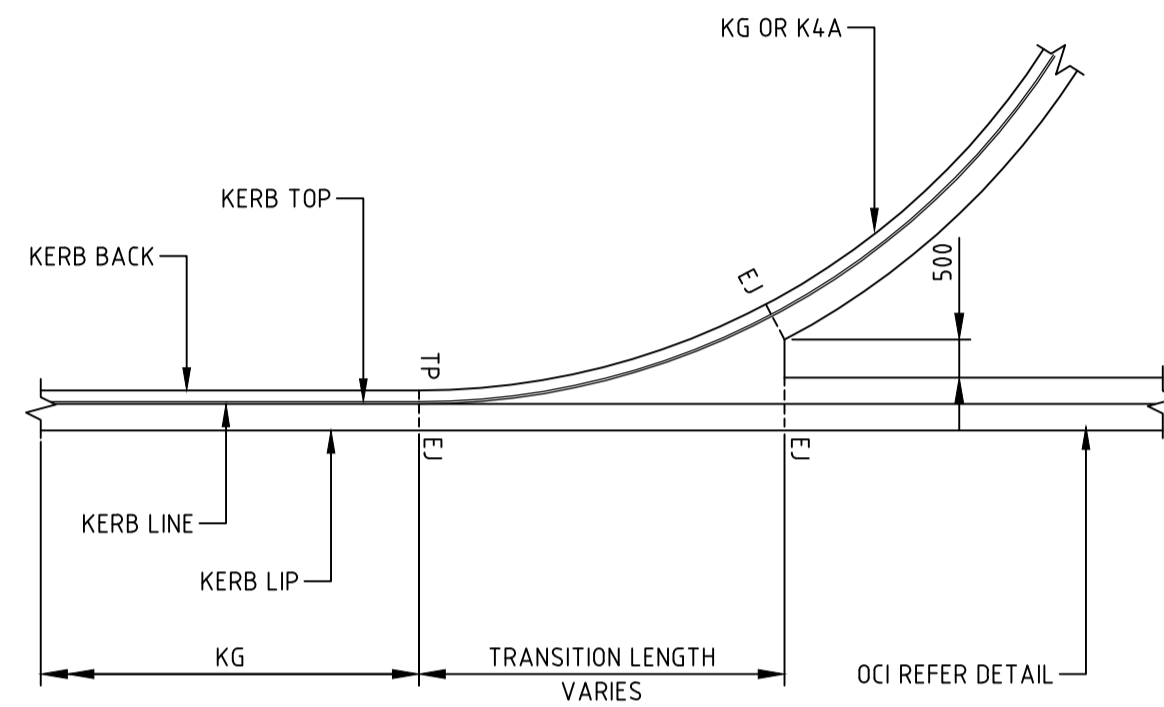
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| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

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| Project Name and Location | | | | | |
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| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| PAVEMENT PLAN | | | | | |
| SHEET 2 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | PV | 0302 | A |

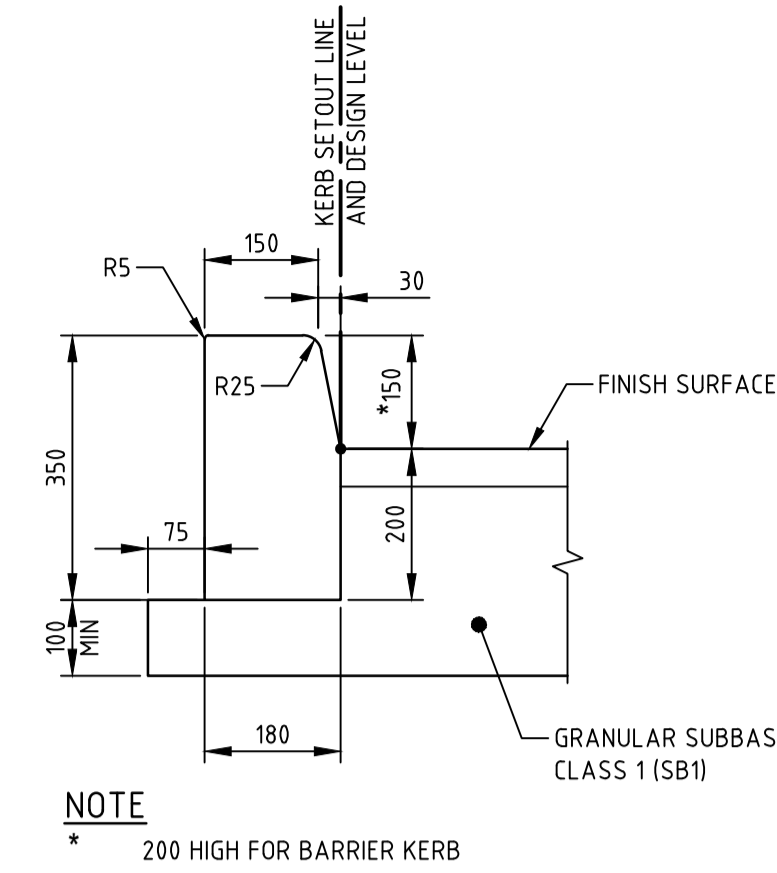
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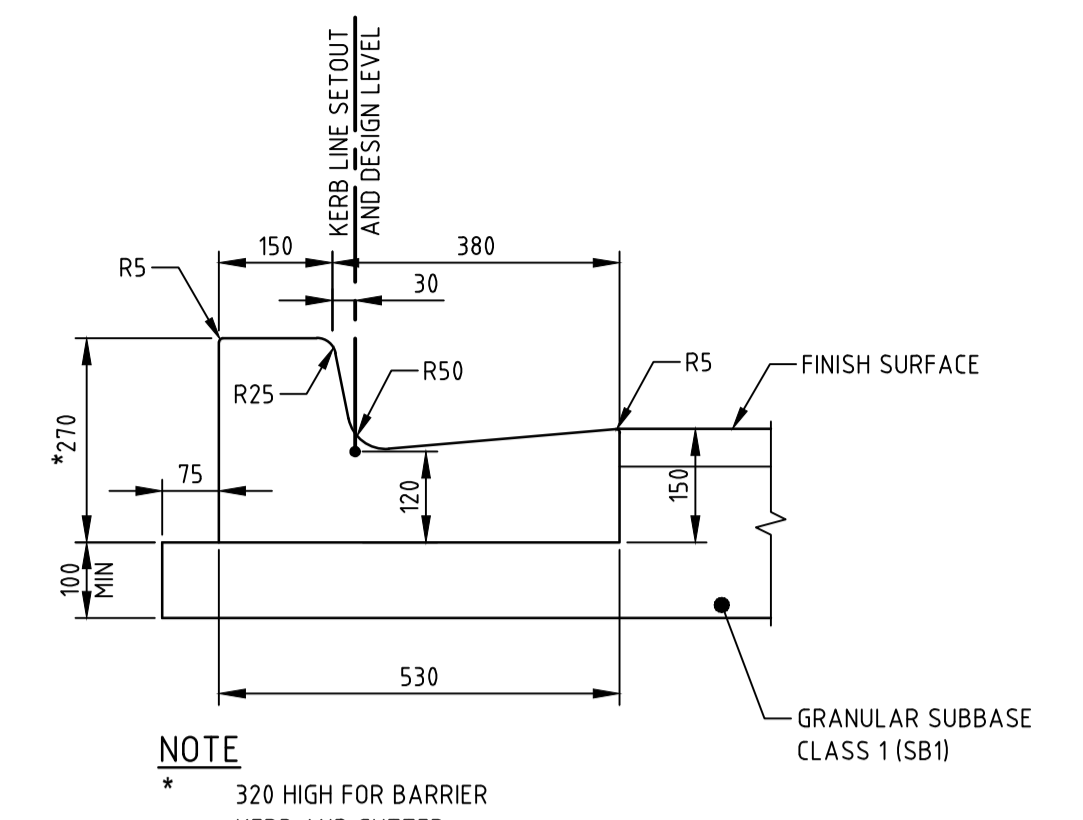
KG TO KO TRANSITION
SCALE 1:100



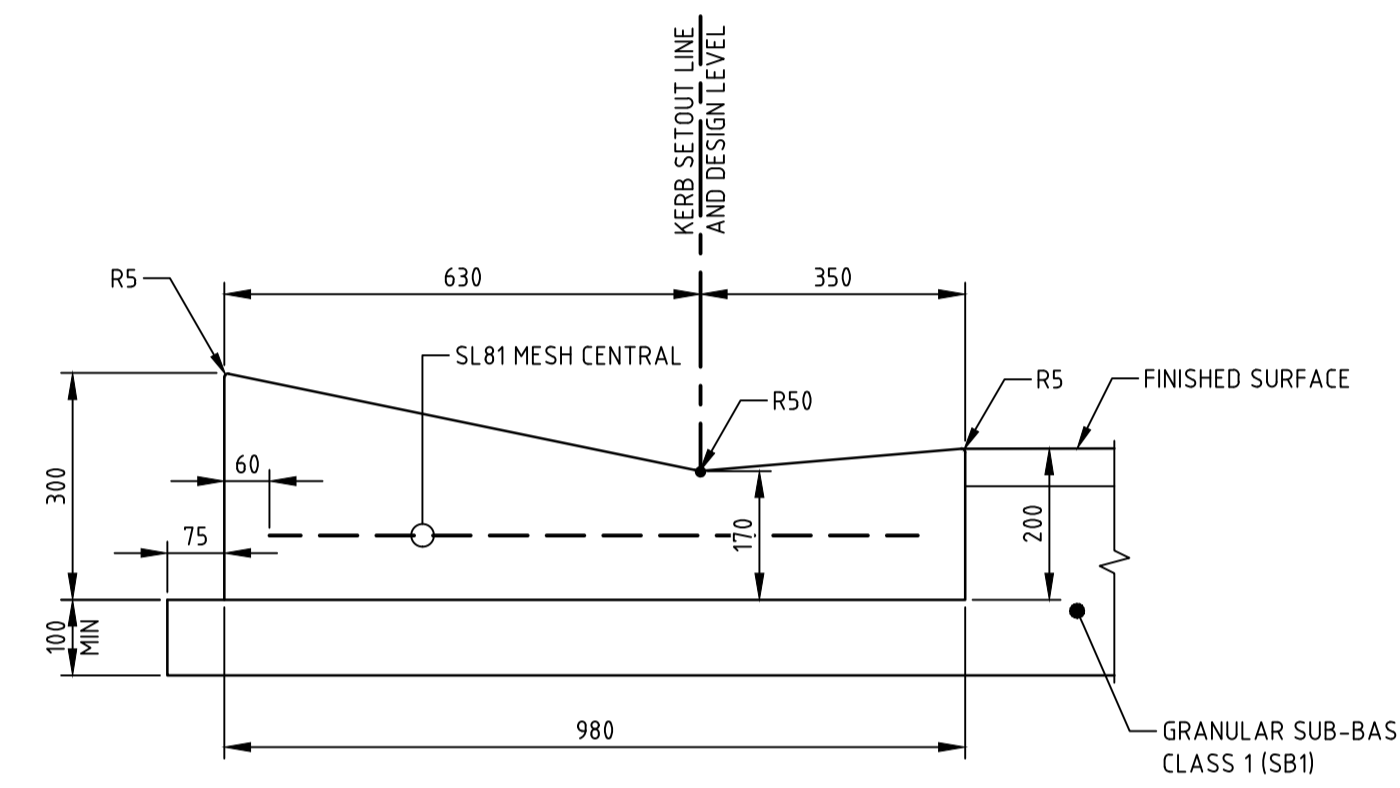
KG TO OCI TRANSITION
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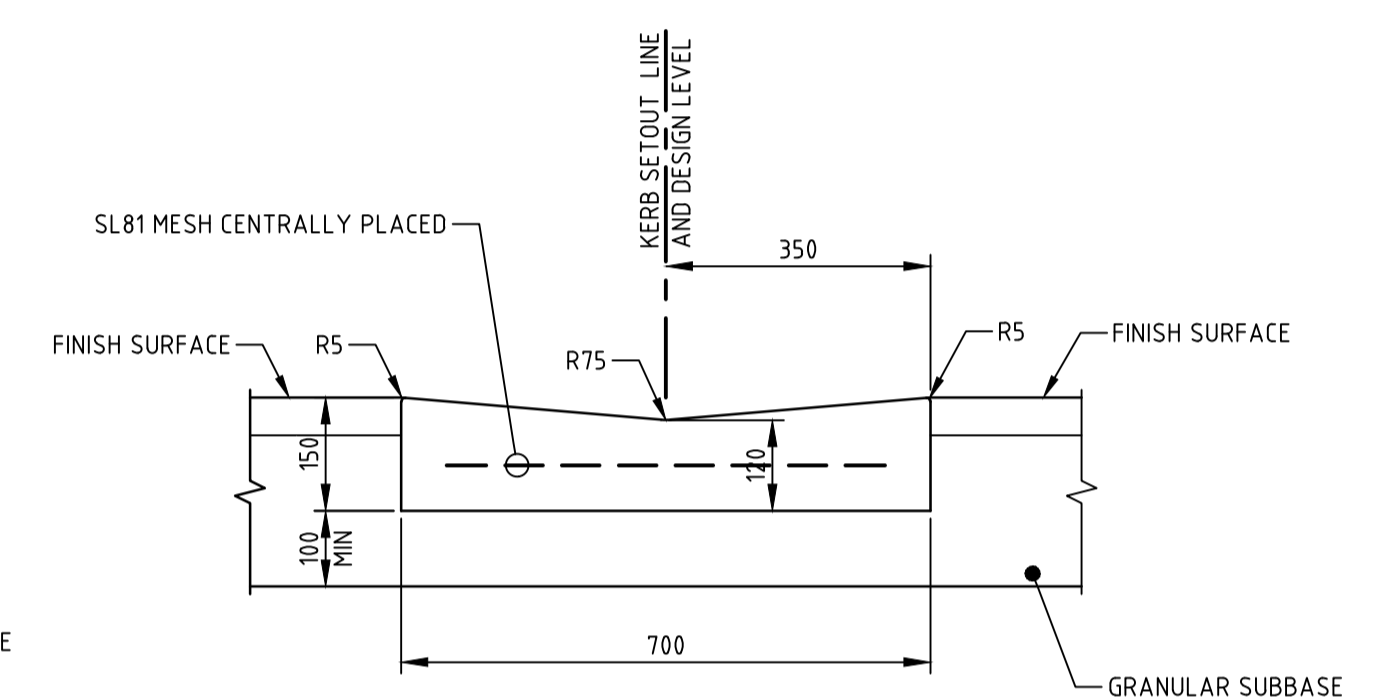
KERB ONLY (KO)
SCALE 1:10



KERB AND GUTTER (KG)
SCALE 1:10



REINFORCED VEHICULAR CROSSING (RVC)
SCALE 1:10



OPEN CHANNEL INVERT (OCI)
SCALE 1:10

NOTE
N32 CONCRETE. DO NOT USE KERB CONCRETE

KERBING NOTES

- ALL KERB WORKS TO BE COMPLETED IN ACCORDANCE WITH ACT GOVERNMENT STANDARD DRAWINGS AND THE ACT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE, SECTION 6. UNLESS NOTED OTHERWISE.
- ALL CONCRETE TO BE CURED CONTINUOUSLY FOR THREE DAYS OR ALTERNATIVELY COATED WITH AN APPROVED CURING COMPOUND. CURING COMPOUNDS ARE TO HAVE A CONTINUOUS COVER TO THE BACK, TOP AND FACE OF KERB
- ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa UNLESS NOTED OTHERWISE.
- ALL KERBS, KERB AND GUTTERS AND OPEN CHANNEL INVERT DRAINS TO BE CONSTRUCTED ON 100mm DGS20 COMPACTED TO A MINIMUM MODIFIED DRY DENSITY (MMD) OF 95%.
- EXPANSION JOINTS (EJ) ARE TO BE SEALED WITH 12mm JOINTEX FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EJs TO BE LOCATED AT ALL DRAINAGE STRUCTURES (BOTH SIDES). ON TP'S OF CURVES LESS THAN 15m RADIUS AND ELSEWHERE AT 15m CENTRES.
- WEAKENED PLANE JOINTS (WJ) ARE TO BE 3mm WIDE TO 1/2 DEPTH FOR EXTRUDE WORK AND TO THE FULL DEPTH OF FORMED SECTIONS. WPJ'S TO BE LOCATED AT ALL VC'S, PC'S AND ELSEWHERE AT 3.0m CENTRES.
- BRUSH FINISH "NON-SKID" TO ALL PRAM RAMPS AND VEHICULAR CROSSINGS. ALL OTHER KERBING OF OPEN DRAINS TO BE STEEL FLOAT FINISHED.
- IN REPLACEMENT OF KERBS, THE EXISTING ROAD PAVEMENT IS TO BE SAWCUT AT A MINIMUM DISTANCE TO ENABLE NEW PAVEMENT TO BE KEYED INTO EXISTING PAVEMENT AT MINIMUM 1:1 FROM FROM SUB-GRADE. REFER PV SERIES DRAWINGS FOR DETAIL.
- ALL JOINTS TO BE PERPENDICULAR TO THE KERB AND FINISH AND FINISH WITH 5.0mm EDGE TOOL.
- FOR CONCRETE NOTES REFER GN-0002.

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales
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 1:10 @ A1
 0 2 3 4 5m
 1:100 @ A1

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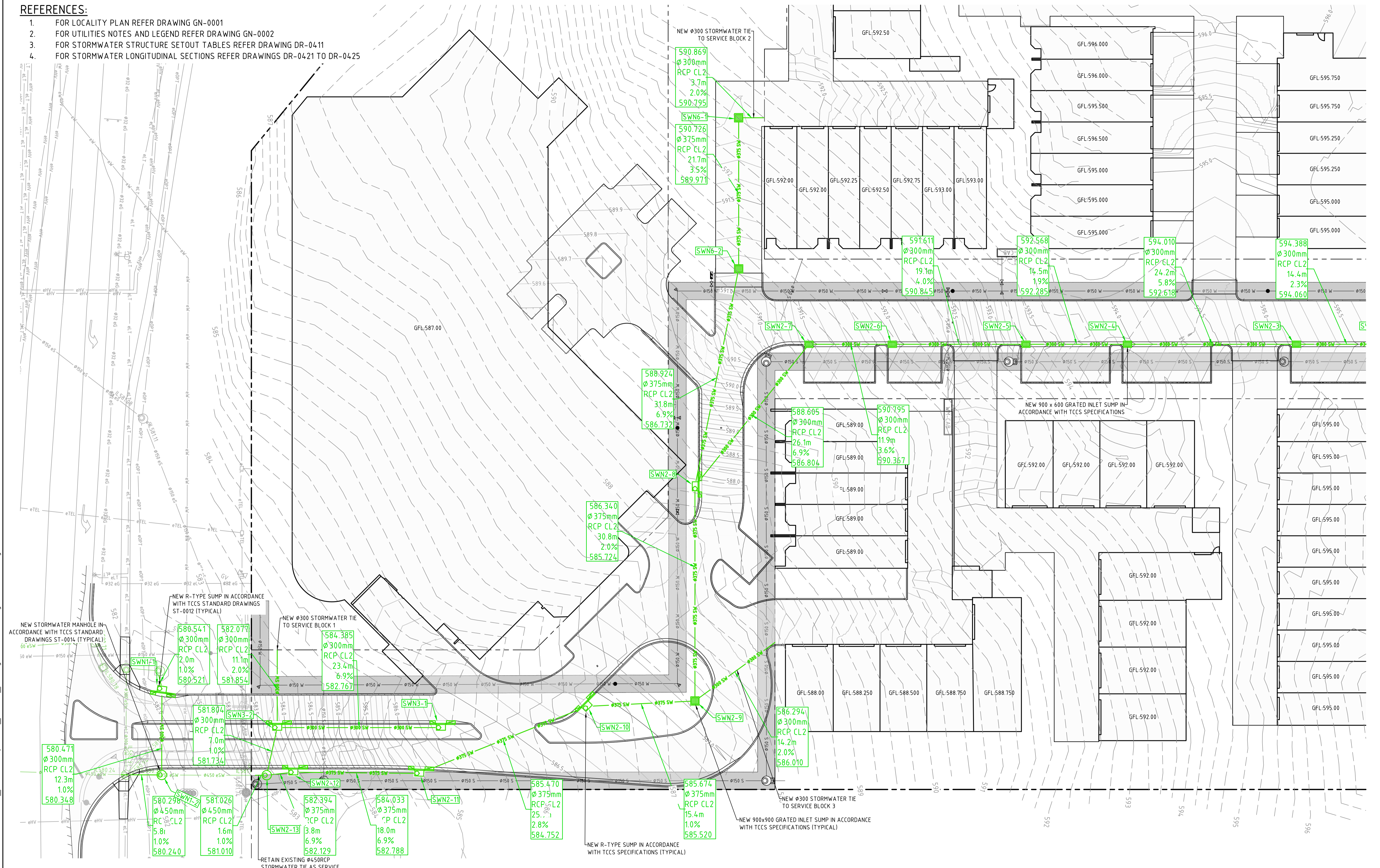


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| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
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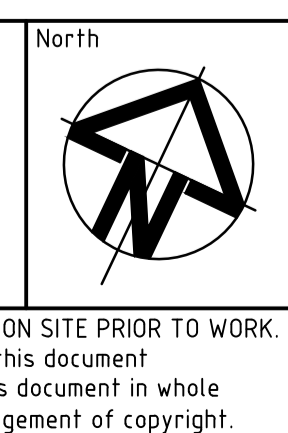
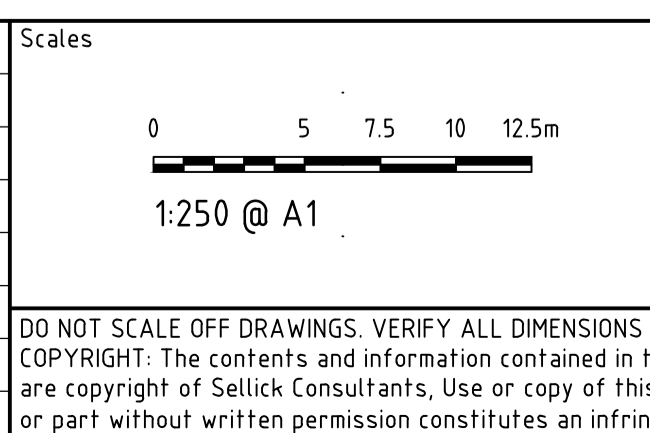
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| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title PAVEMENT DETAILS | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | PV | 0321 | A |

REFERENCES:

1. FOR LOCALITY PLAN REFER DRAWING GN-001
2. FOR UTILITIES NOTES AND LEGEND REFER DRAWING GN-002
3. FOR STORMWATER STRUCTURE SETOUT TABLES REFER DRAWING DR-0411
4. FOR STORMWATER LONGITUDINAL SECTIONS REFER DRAWINGS DR-0421 TO DR-0425



| Rev | Description | Date | Approved |
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| E | FOR INFORMATION | 20.12.2019 | AM |
| D | REVISED FOR NCA CONCEPT PLAN | 21.05.2019 | BC |
| C | NCA CONCEPT PLAN | 22.01.2019 | BC |
| B | NCA CONCEPT PLAN | 06.09.2018 | BC |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC |



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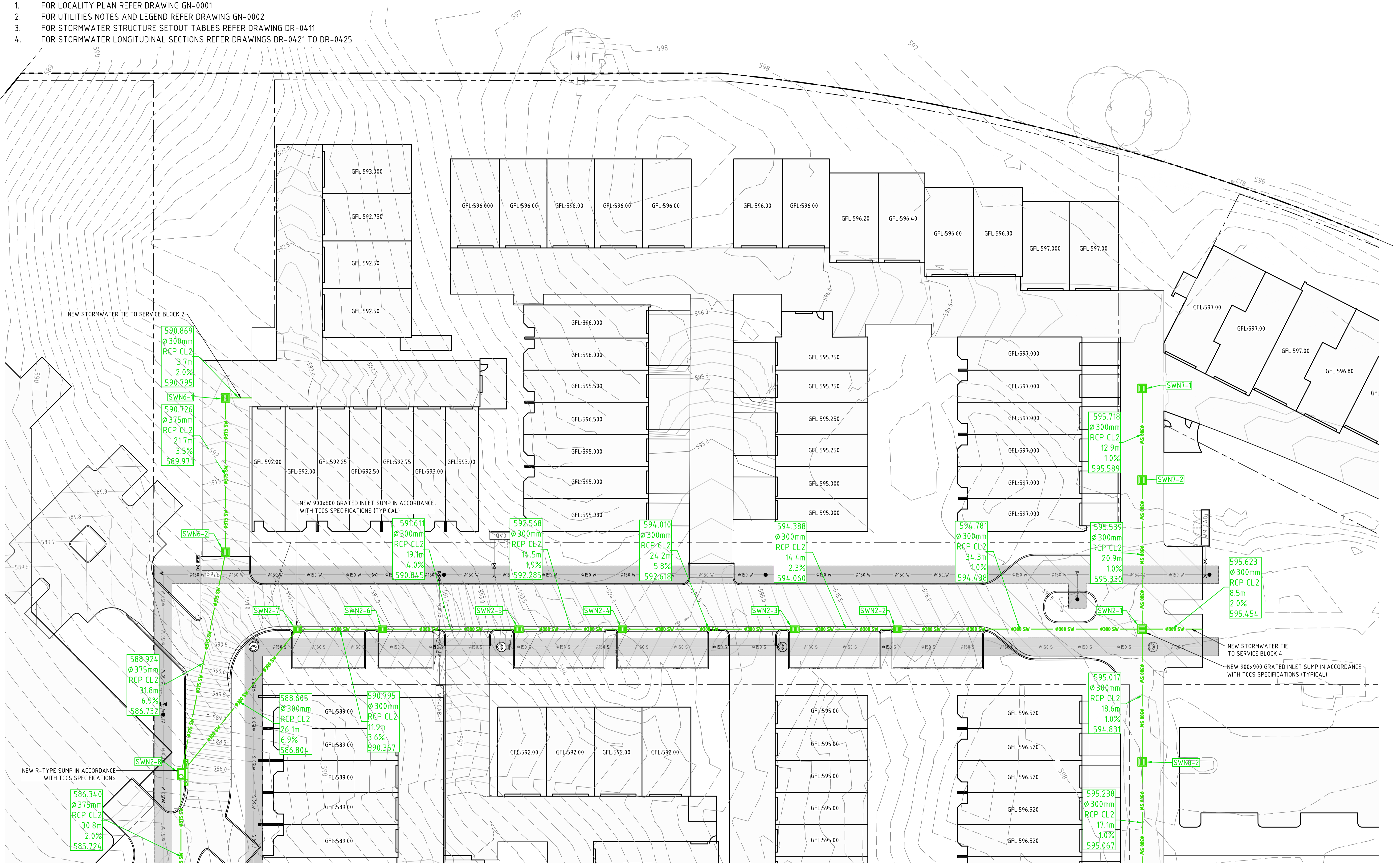
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| | | Approved Signature | |

| Project Name and Location | | | | | | |
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| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| STORMWATER AND SUBSOIL DRAINAGE | | | | | | |
| PLAN SHEET 1 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | DR | 0401 | E | |

REFERENCES:

1. FOR LOCALITY PLAN REFER DRAWING GN-0001
2. FOR UTILITIES NOTES AND LEGEND REFER DRAWING GN-0002
3. FOR STORMWATER STRUCTURE SETOUT TABLES REFER DRAWING DR-0411
4. FOR STORMWATER LONGITUDINAL SECTIONS REFER DRAWINGS DR-0421 TO DR-0425



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| C | NCA CONCEPT PLAN | 22.01.2019 | BC |
| B | NCA CONCEPT PLAN | 06.09.2018 | BC |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC |

Scales

0 5 7.5 10 12.5m

1:250 @ A1

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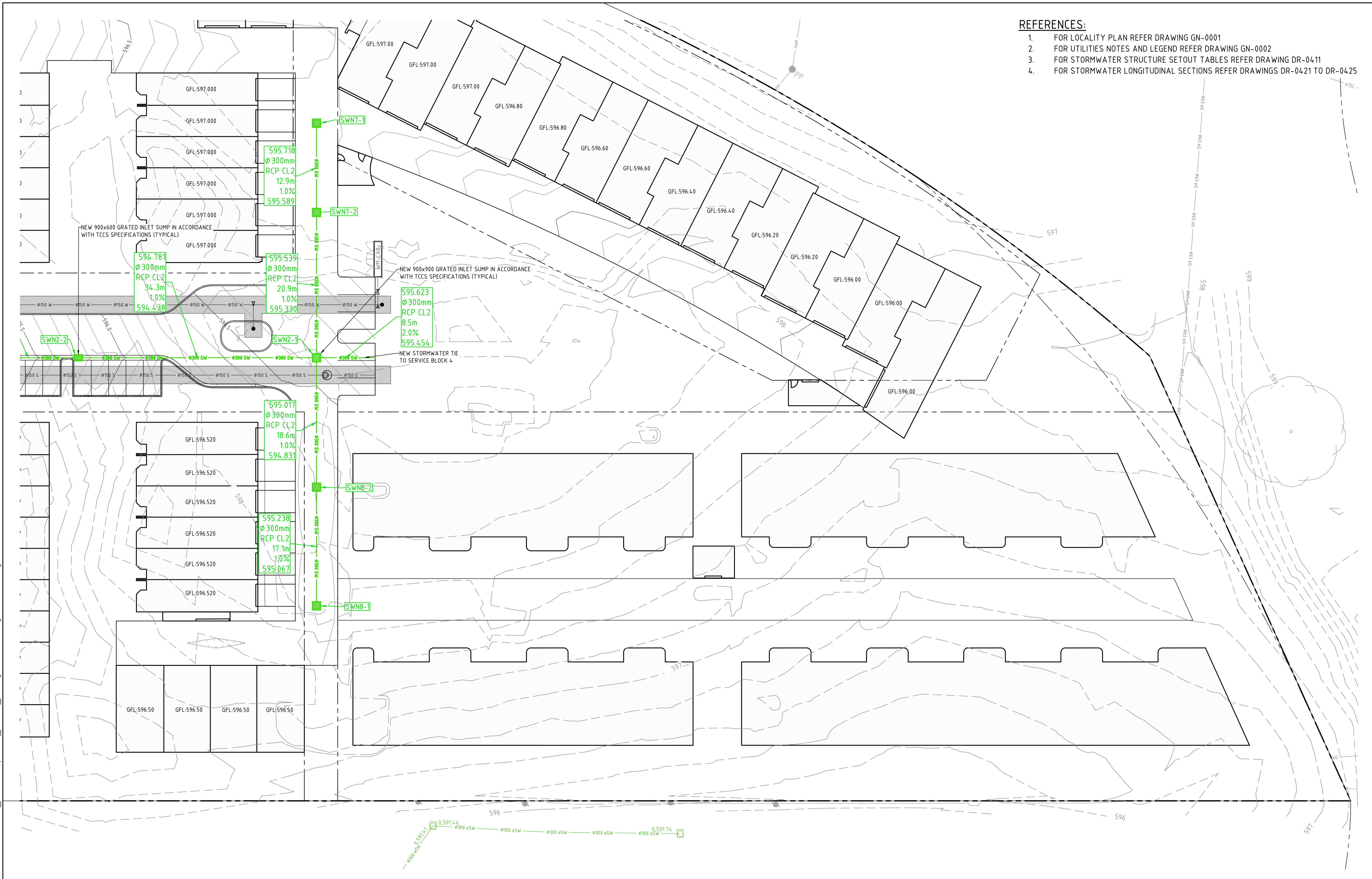
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| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| STORMWATER AND SUBSOIL DRAINAGE | | | | | |
| PLAN SHEET 2 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | DR | 0402 | E |

REFERENCES:

1. FOR LOCALITY PLAN REFER DRAWING GN-0001
2. FOR UTILITIES NOTES AND LEGEND REFER DRAWING GN-0002
3. FOR STORMWATER STRUCTURE SETOUT TABLES REFER DRAWING DR-0411
4. FOR STORMWATER LONGITUDINAL SECTIONS REFER DRAWINGS DR-0421 TO DR-0425



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| B | NCA CONCEPT PLAN | 06.09.2018 | BC |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC |

Scales

1:250 @ A1

North

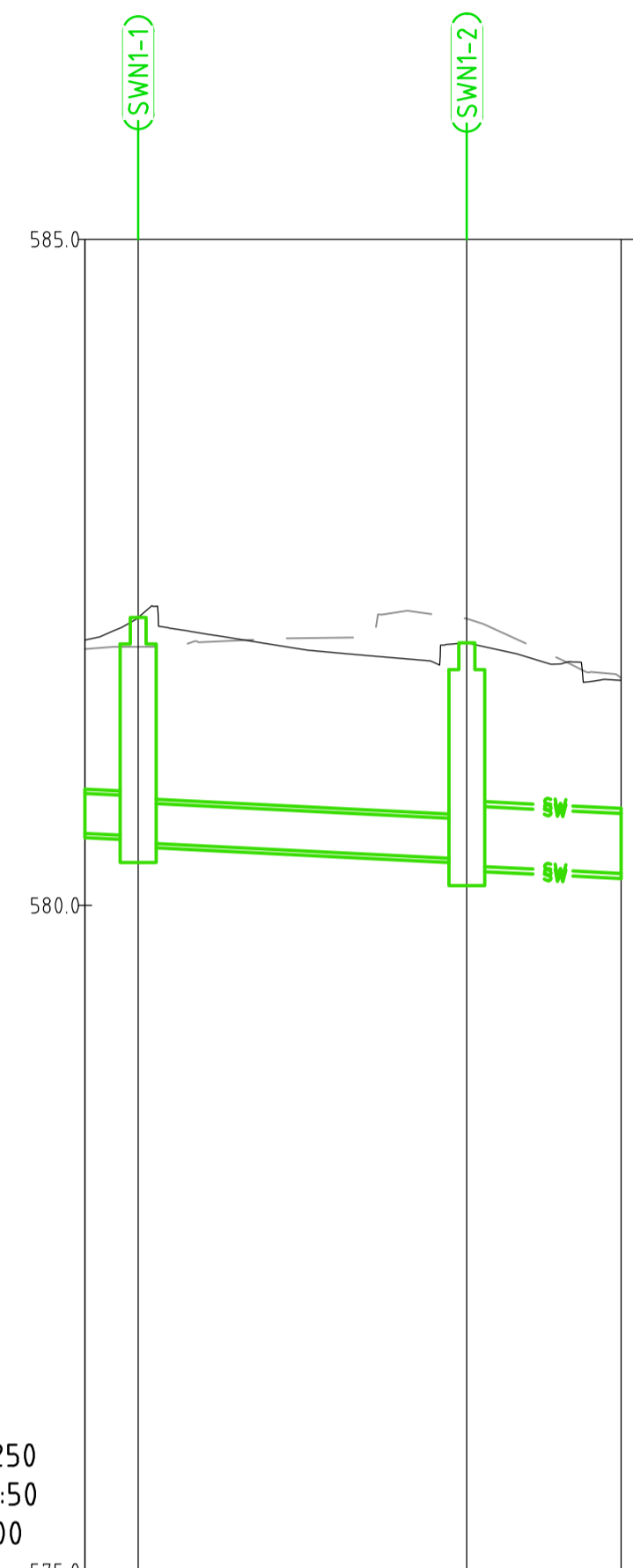
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Client Logo

| Status | | | |
|-----------------------------|--------------|--------------------|------------|
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| Project Name and Location | | | | | | |
|---------------------------------|------|------------|----------------|---------|-----|--|
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| STORMWATER AND SUBSOIL DRAINAGE | | | | | | |
| PLAN SHEET 3 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | DR | 0403 | E | |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-dr-0421.dwg



HOR. SCALE 1:250
VERT. SCALE 1:50
DATUM:575.000

| | | | |
|------------------------------------|-------------------------------|---------------------------|--------------------------|
| GRADE % | 100% | 100% | 100% |
| PIPE DETAILS (CL to CL LENGTHS) | 300 RCP CL2 1.997m | 300 RCP CL2 12.344m | 450 RCP CL2 5.799m |
| DESIGN LEVEL AT MH CL | 582.162 | 581.970 | |
| INVERT LEVEL | 580.541 580.521 580.471 | 580.318 580.296 | 580.240 |
| COVER | 1.118 1.309 1.358 | 1.290 1.184 | 0.961 |
| CHAINAGE | 0.000 1.997 1.997 | 14.340 14.340 | 20.139 |

SW1 LONG SECTION

| | | | |
|-----|-----------------|------------|----------|
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| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

1:250 @ A1

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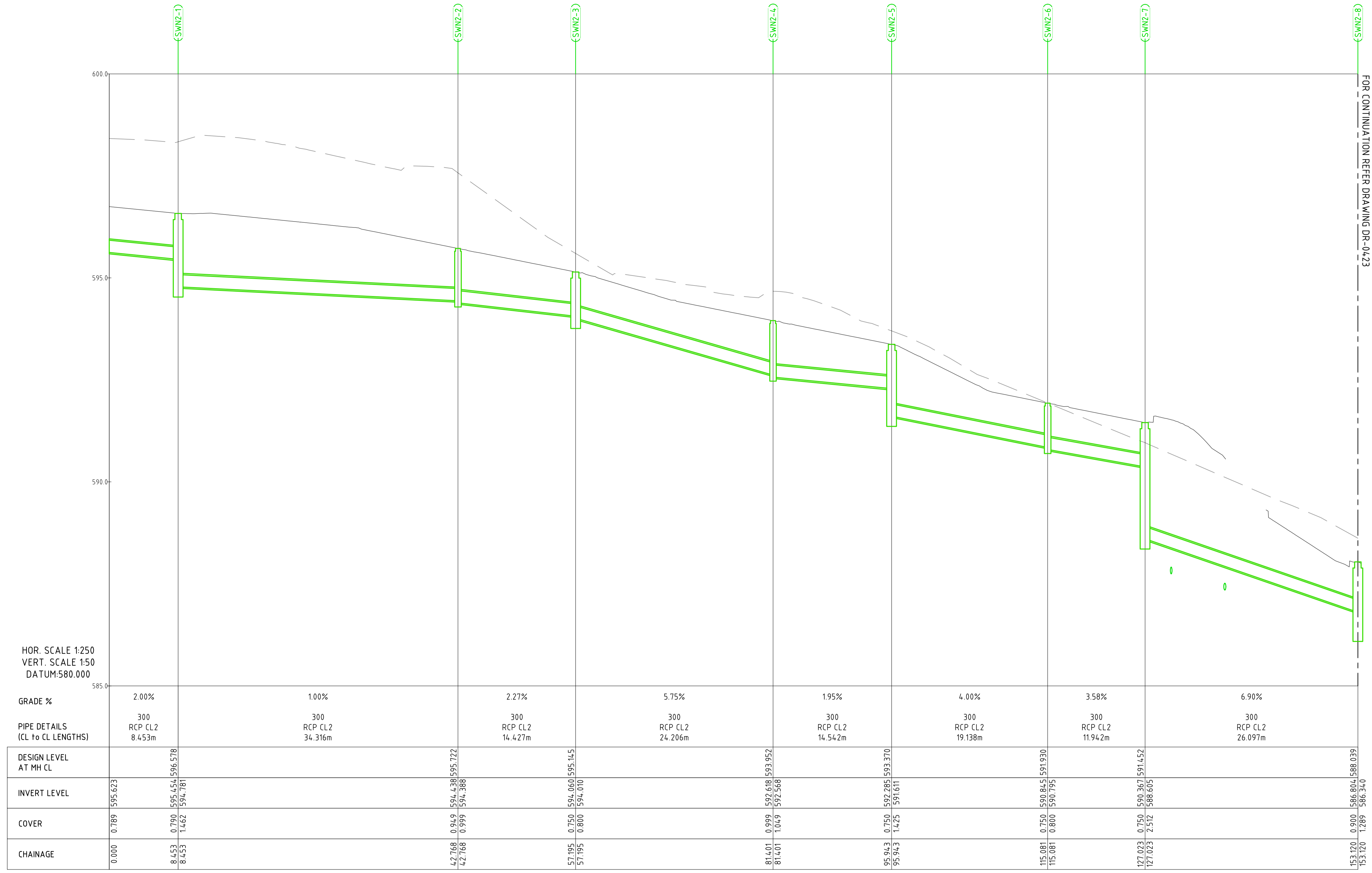
North



| | | | |
|-----------------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Drafting Check | DCA |
| Height Datum | AHD | Design Check | AM |
| | | Approved | BC |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|----------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| STORMWATER LONGITUDINAL SECTIONS | | | | | |
| SHEET 1 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | DR | 0421 | A |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-dr-0422.dwg



SW2 LONG SECTION

HOR. SCALE 1:250
VERT. SCALE 1:50
DATUM:580.000

FOR CONTINUATION REFER DRAWING DR-0423

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

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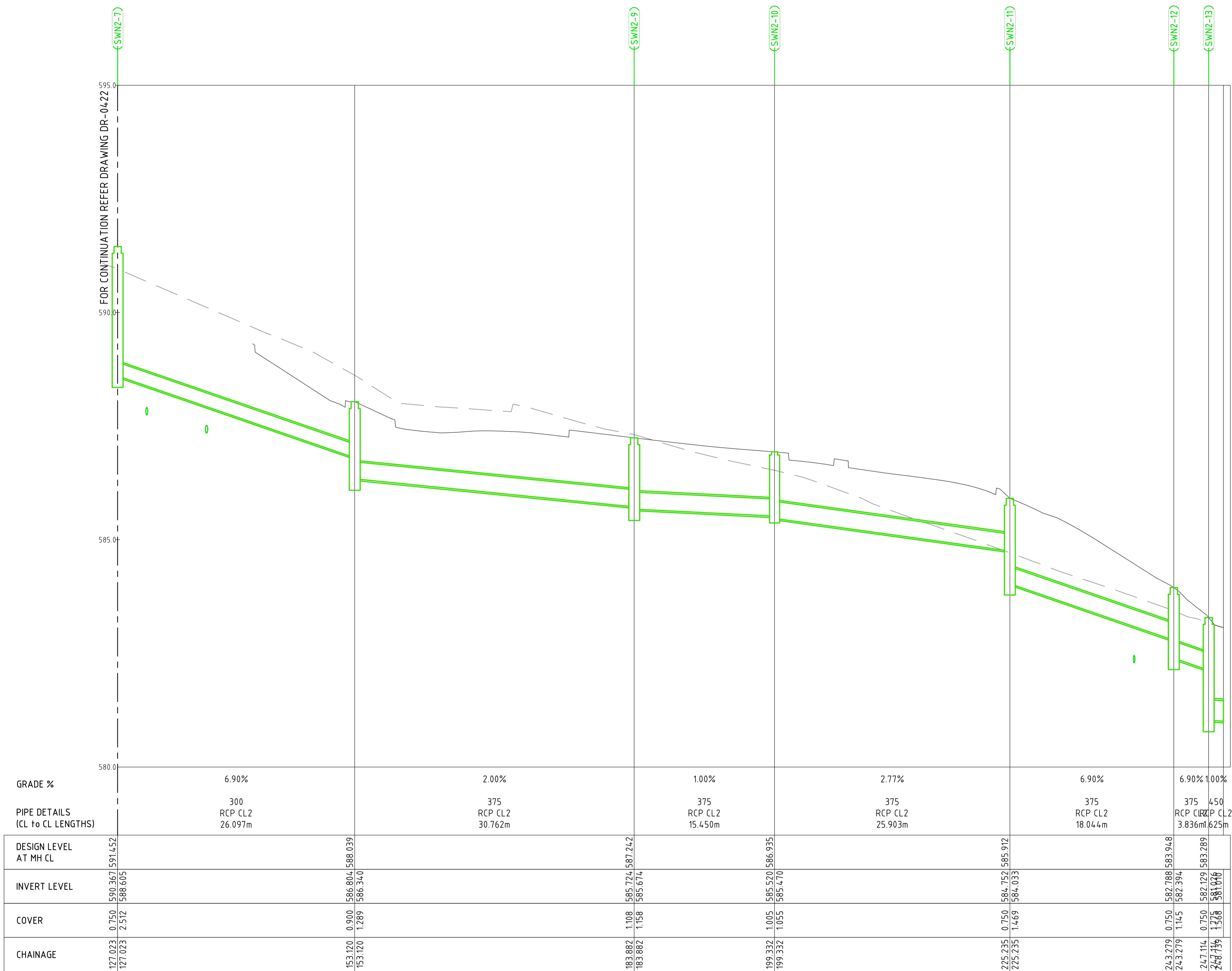
Status: **NOT FOR CONSTRUCTION**

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| Original Size: A1 | Drawn By: RT | Drafting Check: DCA |
| Date Plotted: 20-Dec-19 | Designed By: LT | Design Check: AM |
| Coordinate System: STROMLO GRID | Approved: BC | Approved Date: 24.08.2018 |
| Height Datum: AHD | Approved Signature | |

Project Name and Location: RESIDENTIAL DEVELOPMENT
BLOCK 4 SECTION 38, CAMPBELL

Drawing Title: STORMWATER LONGITUDINAL SECTIONS SHEET 2

| | | | | | |
|------------------------|-----------|-----------------|--------------------|---------------|--------|
| Project Number: 180658 | Type: DRG | Discipline: CIV | Sub-Discipline: DR | Drg No.: 0422 | Rev: A |
|------------------------|-----------|-----------------|--------------------|---------------|--------|



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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

1:250 @ A1

North

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Status: **NOT FOR CONSTRUCTION**

| | | | | | |
|-------------------|--------------|--------------------|----|----------------|------------|
| Original Size | A1 | Drawn By | RT | Drafting Check | DCA |
| Date Plotted | 20-Dec-19 | Designed By | LT | Design Check | AM |
| Coordinate System | STROMLO GRID | Approved | BC | Approved Date | 24.08.2018 |
| Height Datum | AHD | Approved Signature | | | |

Project Name and Location

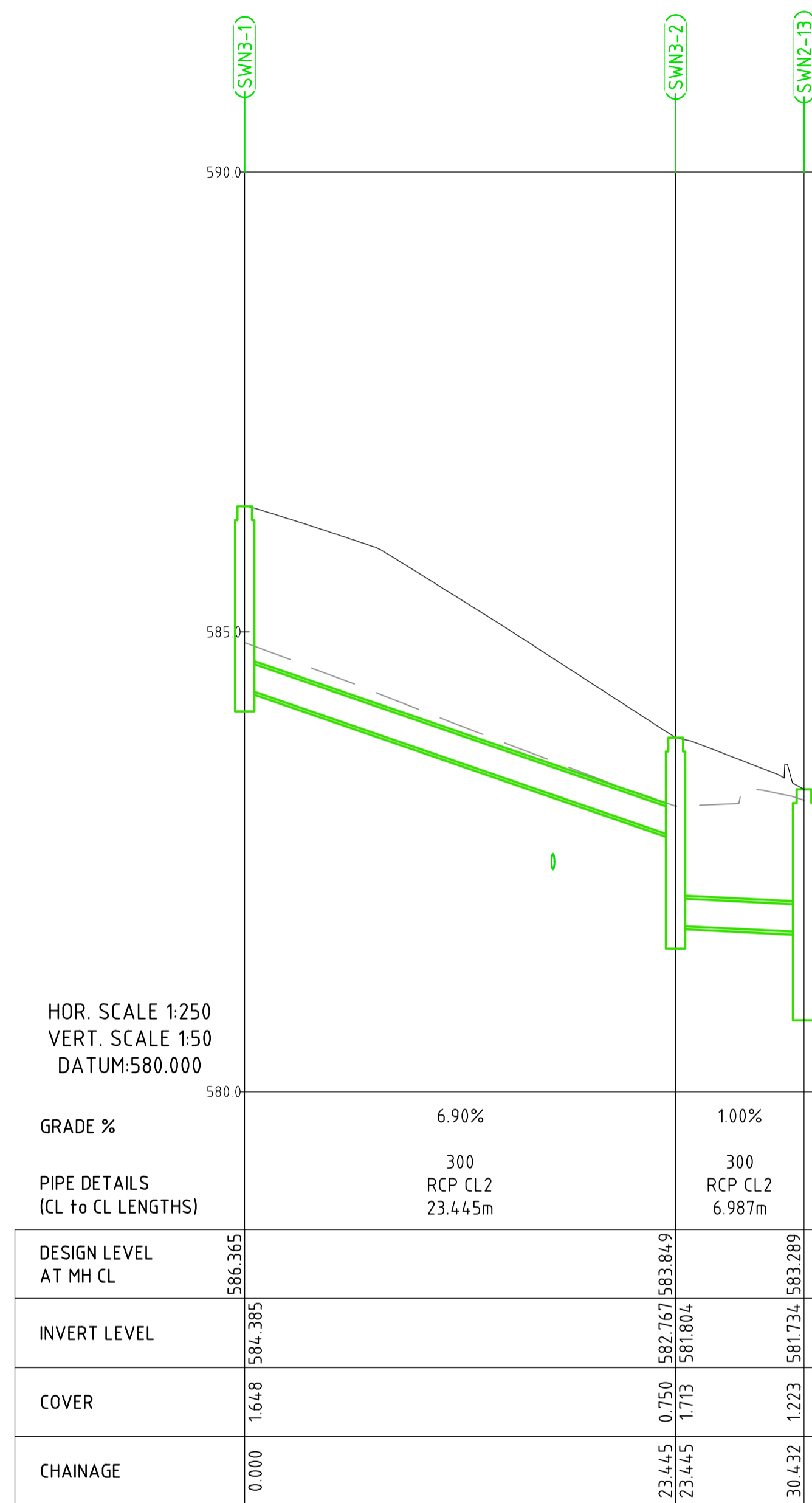
RESIDENTIAL DEVELOPMENT
BLOCK 4 SECTION 38, CAMPBELL

Drawing Title

STORMWATER LONGITUDINAL SECTIONS
SHEET 3

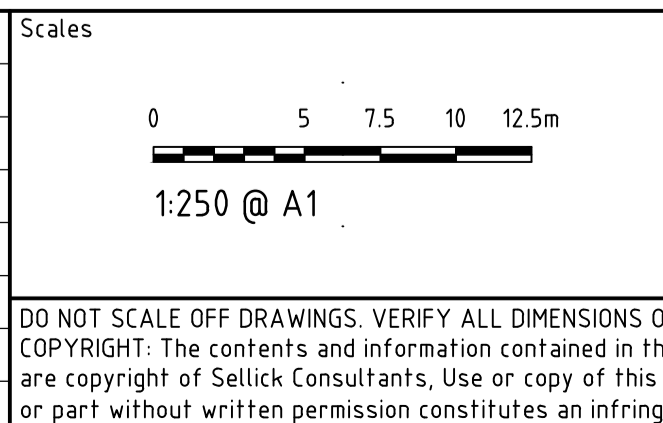
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| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | DR | 0423 | A |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\1.2_Drawings\CIV\180658-drg-civ-dr-0424.dwg



SW3 LONG SECTION

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| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |



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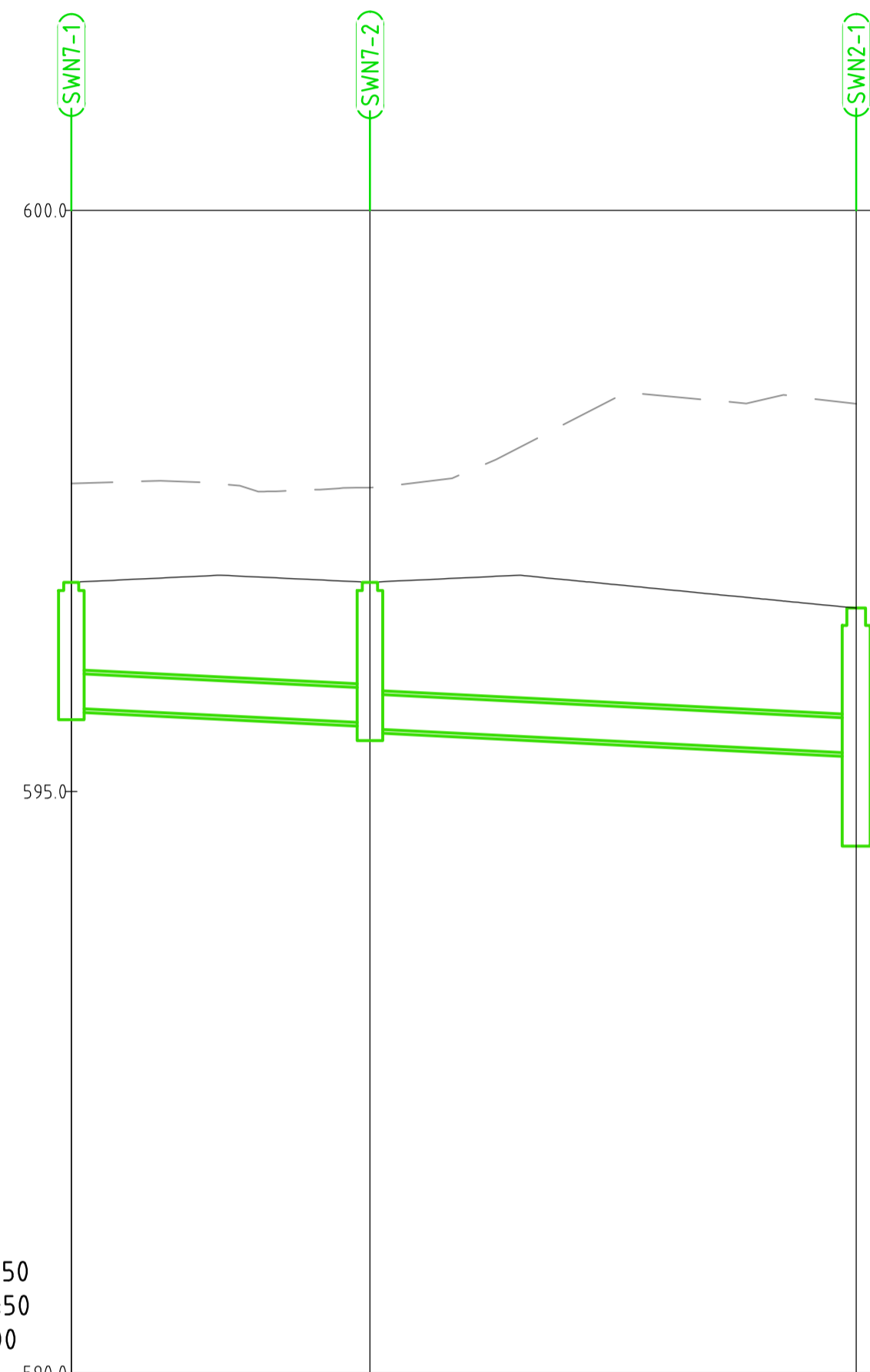


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|-----------------------------|--------------|--------------------|------------|
| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Drafting Check | DCA |
| Height Datum | AHD | Design Check | AM |
| | | Approved | BC |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|----------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| STORMWATER LONGITUDINAL SECTIONS | | | | | |
| SHEET 4 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | DR | 0424 | A |

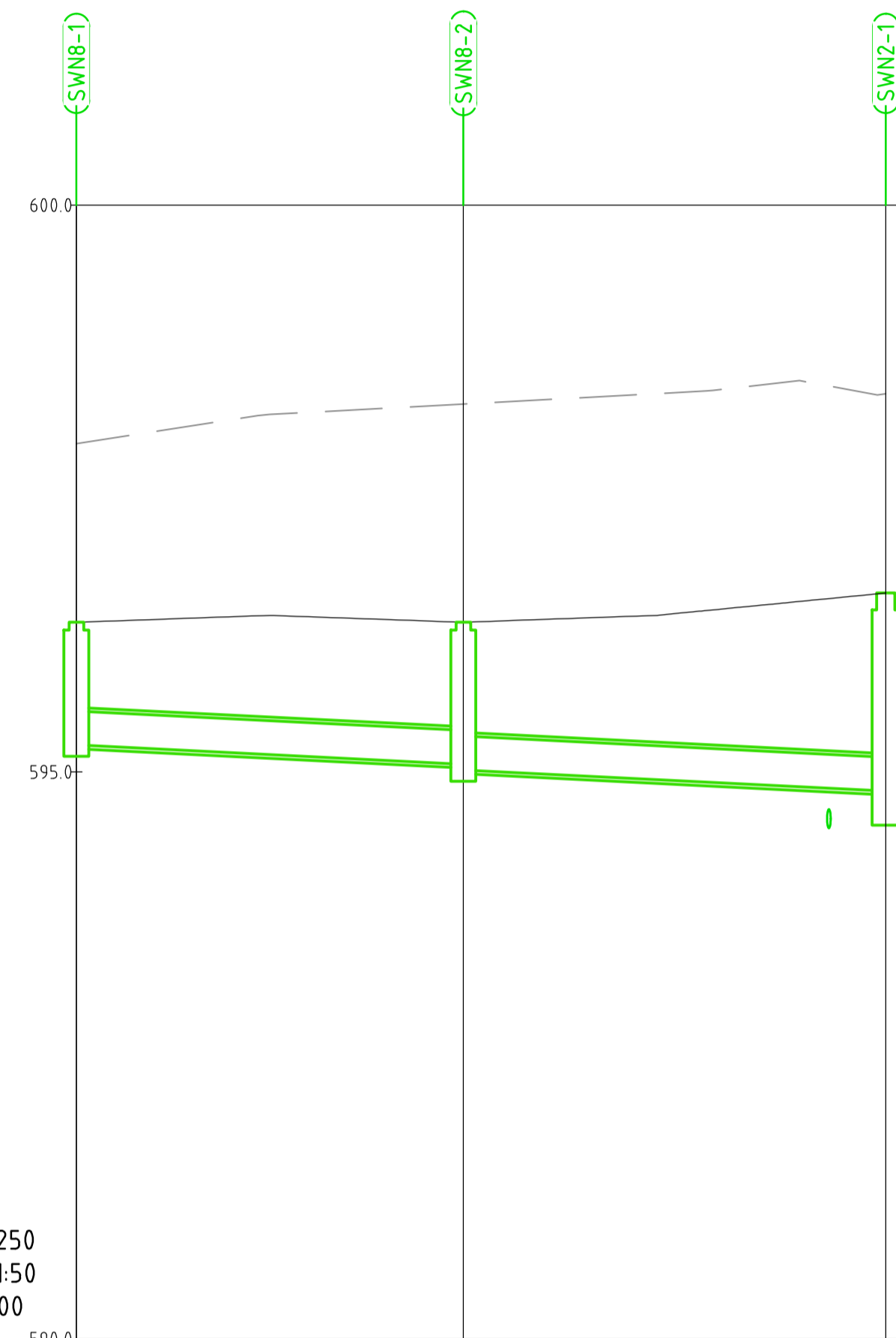


HOR. SCALE 1:250
VERT. SCALE 1:50
DATUM:590.000

| | | |
|------------------------------------|---------------------------|---------------------------|
| GRADE % | 1.00% | 1.00% |
| PIPE DETAILS (CL to CL LENGTHS) | 300 RCP CL2 12.850m | 300 RCP CL2 20.924m |

| | | | |
|--------------------------|---------|---------|---------|
| DESIGN LEVEL AT MH CL | 596.800 | 595.589 | 596.800 |
| INVERT LEVEL | 595.718 | 595.539 | 595.330 |
| COVER | 0.750 | 0.879 | 0.917 |
| CHAINAGE | 0.000 | 12.850 | 33.774 |

SW7 LONG SECTION



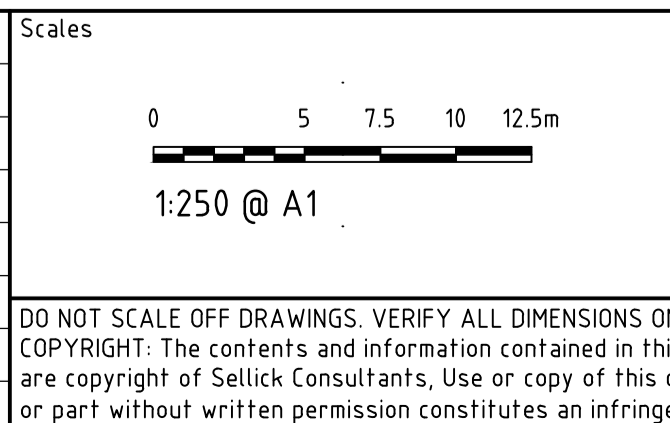
HOR. SCALE 1:250
VERT. SCALE 1:50
DATUM:590.000

| | | |
|------------------------------------|---------------------------|---------------------------|
| GRADE % | 1.00% | 1.00% |
| PIPE DETAILS (CL to CL LENGTHS) | 300 RCP CL2 17.080m | 300 RCP CL2 18.641m |

| | | | |
|--------------------------|---------|---------|---------|
| DESIGN LEVEL AT MH CL | 596.320 | 595.067 | 596.320 |
| INVERT LEVEL | 595.238 | 595.017 | 594.831 |
| COVER | 0.750 | 0.921 | 1.416 |
| CHAINAGE | 0.000 | 17.080 | 35.721 |

SW8 LONG SECTION

| | | | |
|-----|-----------------|------------|----------|
| Rev | Description | Date | Approved |
| A | FOR INFORMATION | 20.12.2019 | AM |



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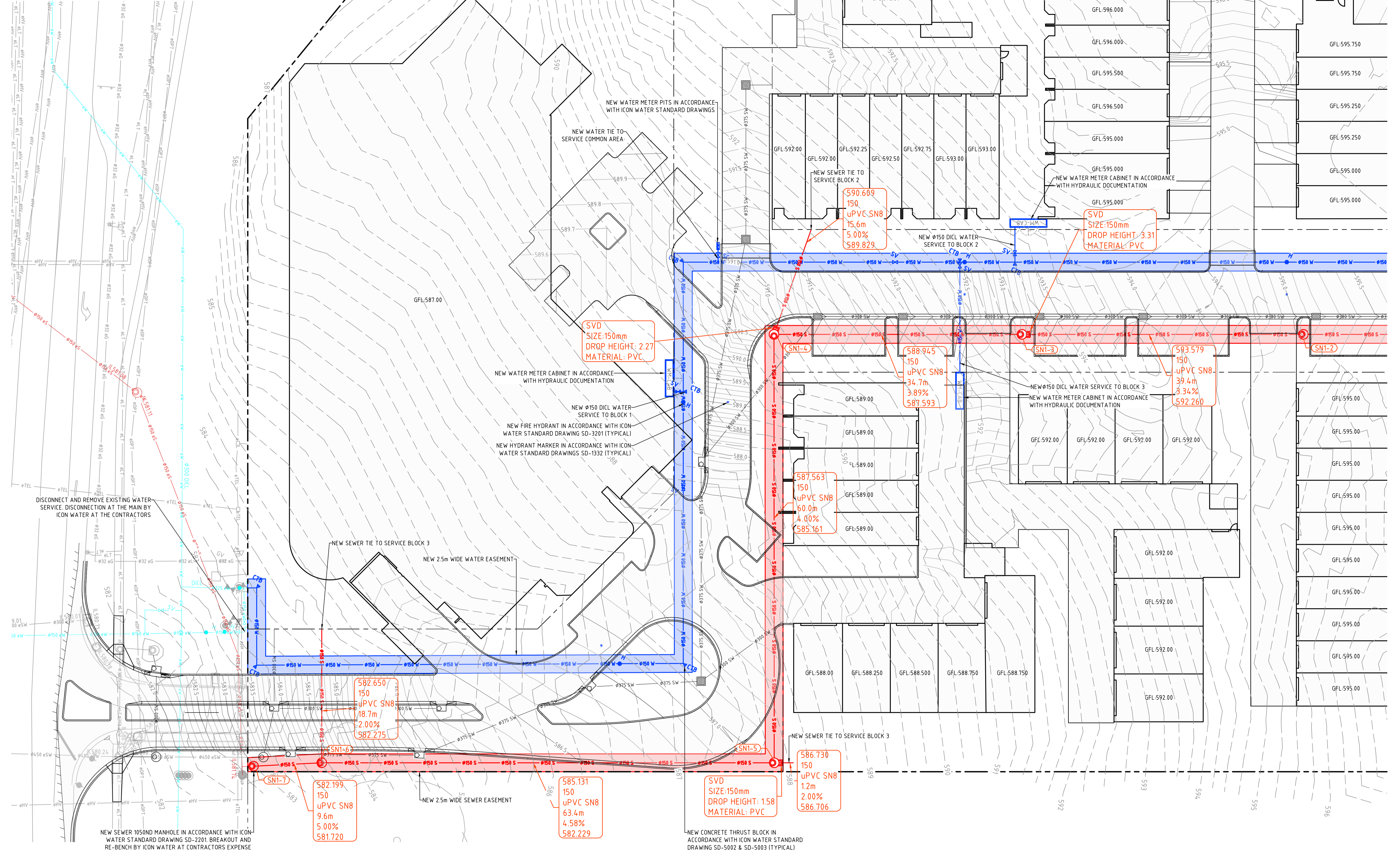


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| Status NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|--|------|------------|----------------|---------|-----|
| Project Name and Location RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title STORMWATER LONGITUDINAL SECTIONS SHEET 5 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | DR | 0425 | A |

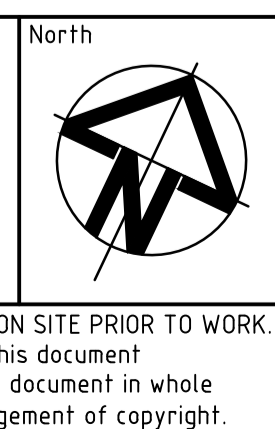
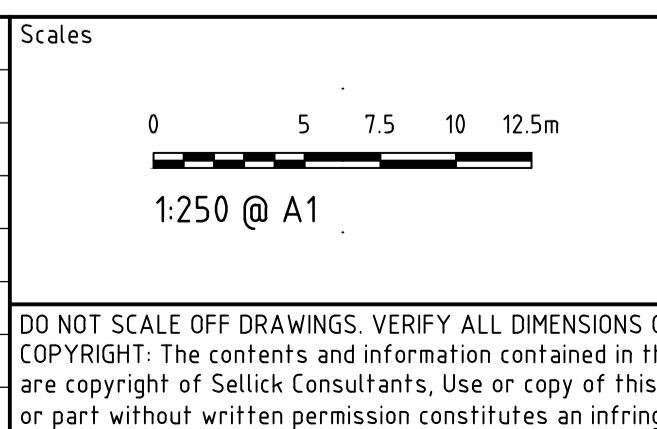
REFERENCES:

- FOR LOCALITY PLAN REFER DRAWING GN-0001
- FOR UTILITIES NOTES AND LEGEND REFER DRAWING GN-0002



File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-dwg-civ-ut-0501.dwg

| Rev | Description | Date | Approved |
|-----|------------------------------|------------|----------|
| E | FOR INFORMATION | 20.12.2019 | AM |
| D | REVISED FOR NCA CONCEPT PLAN | 21.05.2019 | BC |
| C | NCA CONCEPT PLAN | 22.01.2019 | BC |
| B | NCA CONCEPT PLAN | 06.09.2018 | BC |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC |



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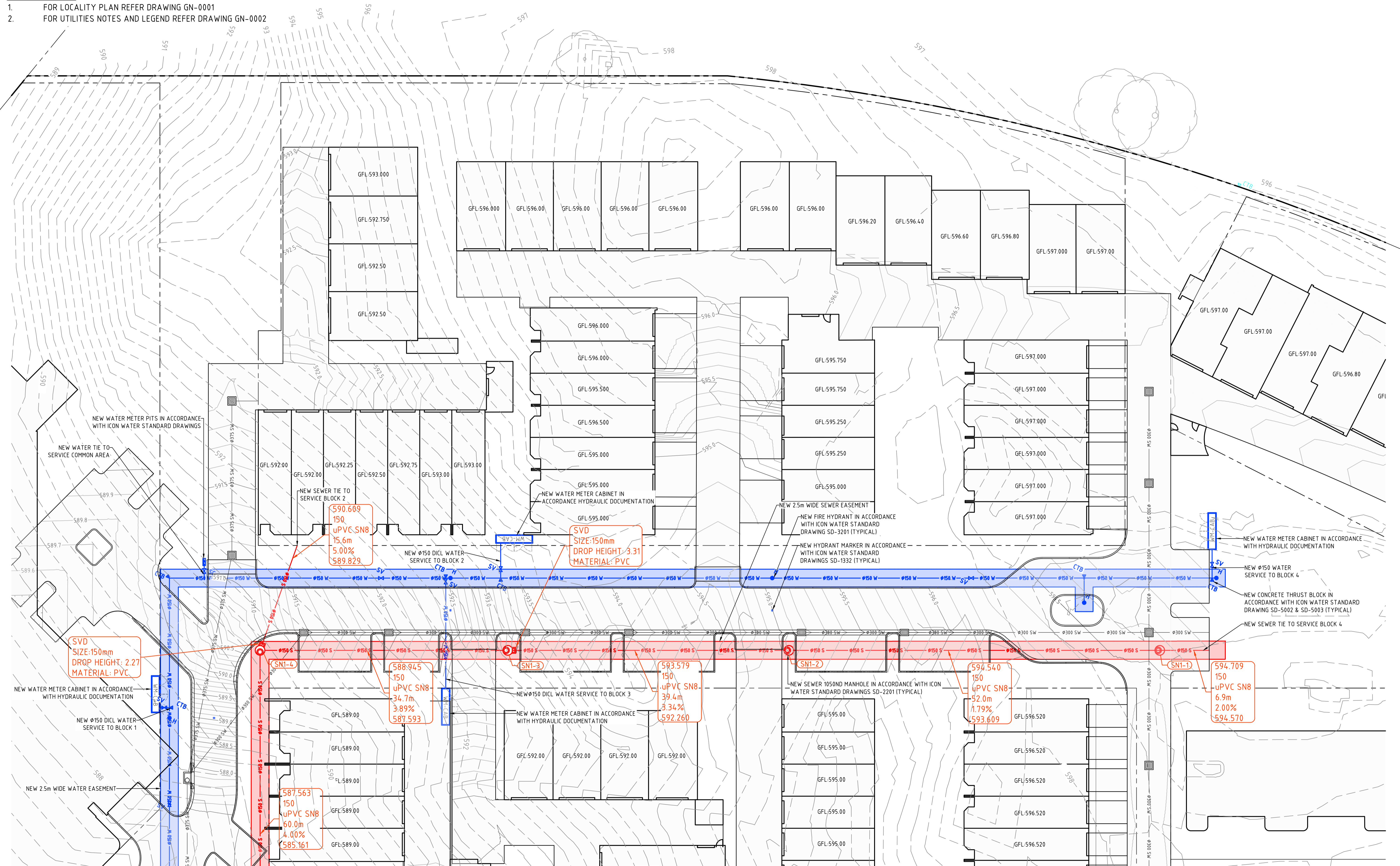
Client Logo

| Status | | | |
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| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| Project Name and Location | | | | | |
|--------------------------------|------|------------|----------------|---------|-----|
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| UTILITIES PLAN | | | | | |
| SHEET 1 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drw No. | Rev |
| 180658 | DRG | CIV | UT | 0501 | E |

REFERENCES:

1. FOR LOCALITY PLAN REFER DRAWING GN-0001
2. FOR UTILITIES NOTES AND LEGEND REFER DRAWING GN-0002



File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-dwg-civ-ut-0502.dwg

| Rev | Description | Date | Approved |
|-----|------------------------------|------------|----------|
| E | FOR INFORMATION | 20.12.2019 | AM |
| D | REVISED FOR NCA CONCEPT PLAN | 21.05.2019 | BC |
| C | NCA CONCEPT PLAN | 22.01.2019 | BC |
| B | NCA CONCEPT PLAN | 06.09.2018 | BC |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC |

Scales

0 5 7.5 10 12.5m

1:250 @ A1

North

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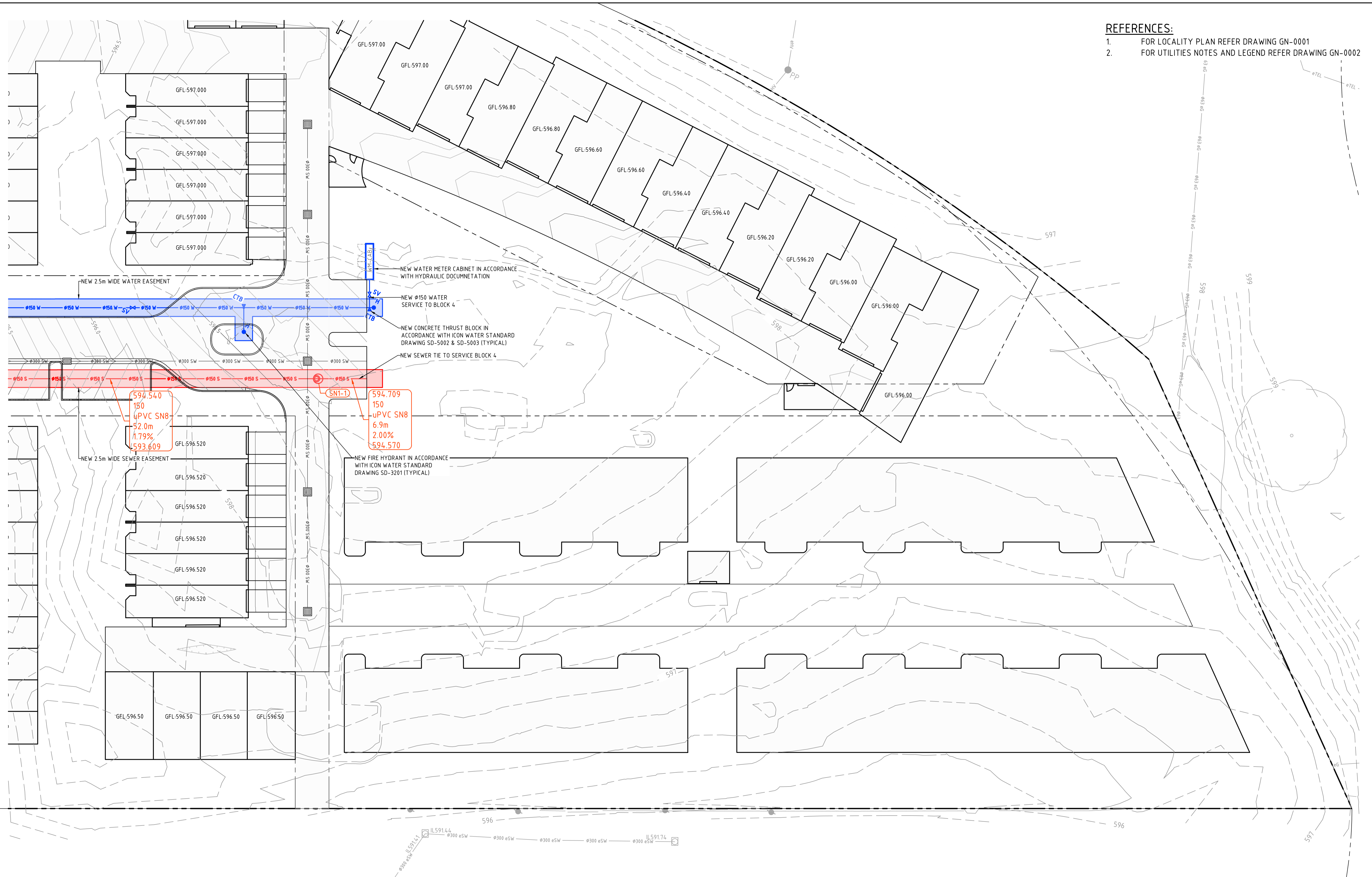
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| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| Project Name and Location | | | | | | |
|--------------------------------|------|------------|----------------|---------|-----|--|
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| UTILITIES PLAN | | | | | | |
| SHEET 2 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | UT | 0502 | E | |

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REFERENCES:

1. FOR LOCALITY PLAN REFER DRAWING GN-0001
2. FOR UTILITIES NOTES AND LEGEND REFER DRAWING GN-0002



| Rev | Description | Date | Approved |
|-----|------------------------------|------------|----------|
| E | FOR INFORMATION | 20.12.2019 | AM |
| D | REVISED FOR NCA CONCEPT PLAN | 21.05.2019 | BC |
| C | NCA CONCEPT PLAN | 22.01.2019 | BC |
| B | NCA CONCEPT PLAN | 06.09.2018 | BC |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC |

Scales

0 5 7.5 10 12.5m

1:250 @ A1

North

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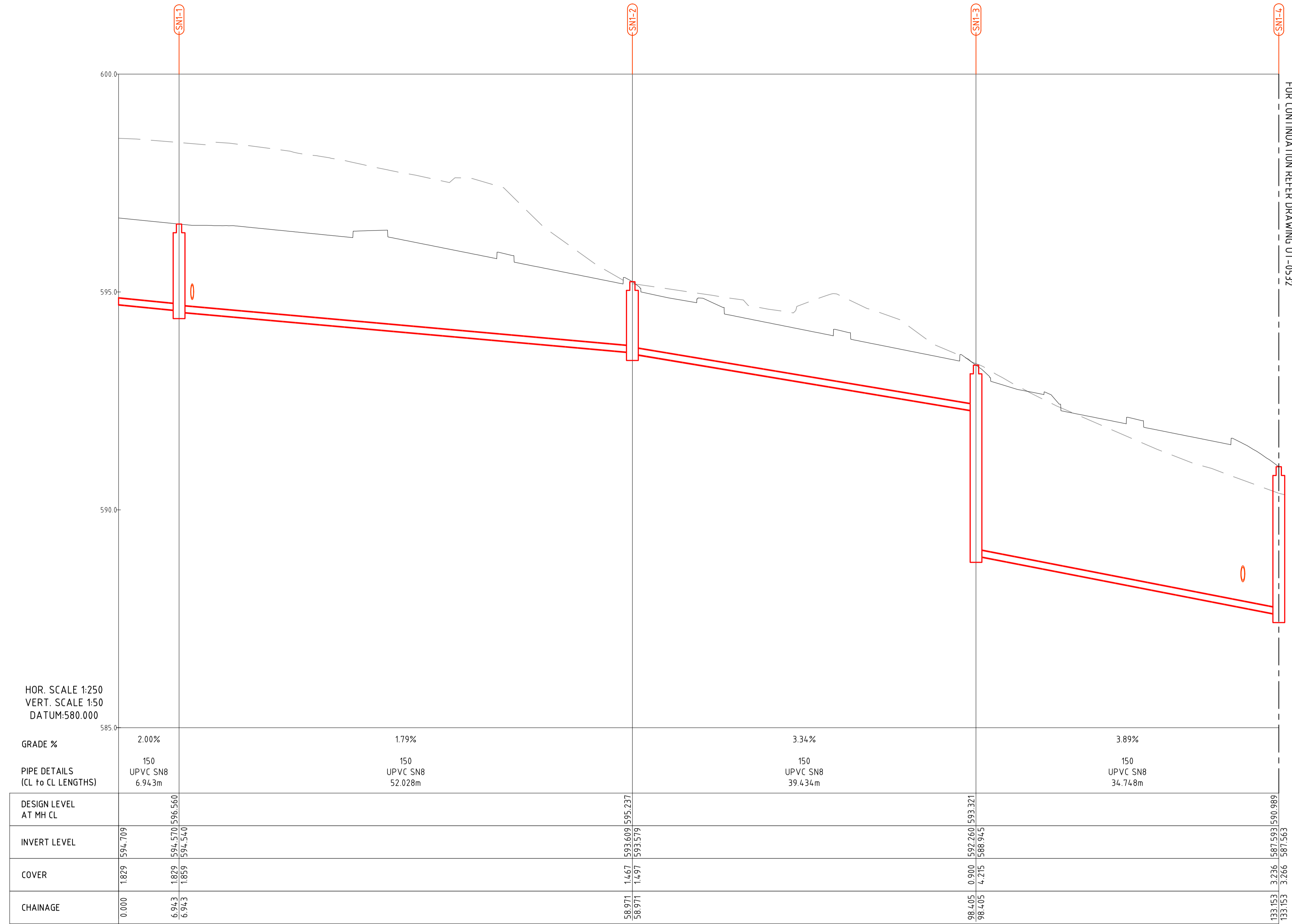
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| Status | | | |
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| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Drafting Check | DCA |
| Coordinate System | STROMLO GRID | Designed By | LT |
| Height Datum | AHD | Design Check | AM |
| | | Approved | BC |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| Project Name and Location | | | | | | |
|--------------------------------|------|------------|----------------|---------|-----|--|
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| UTILITIES PLAN | | | | | | |
| SHEET 3 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | UT | 0503 | E | |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-ut-0531.dwg



S1 LONG SECTION

HOR. SCALE 1:250
VERT. SCALE 1:50
DATUM:580.000

FOR CONTINUATION REFER DRAWING UT-0532

| Rev | Description | Date | Approved |
|-----|-----------------|------------|----------|
| A | FOR INFORMATION | 20.12.2019 | AM |

Scales

North

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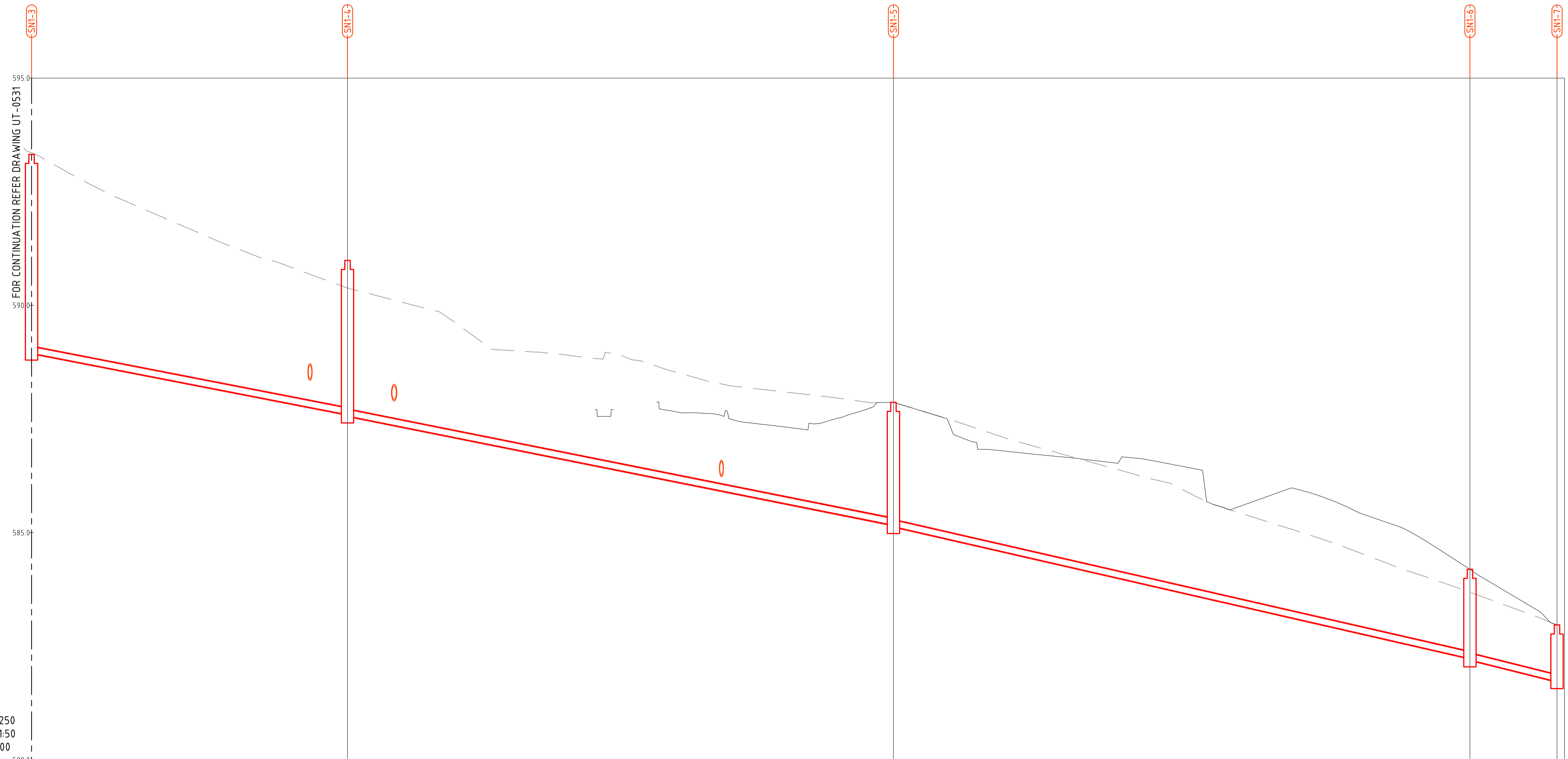
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| Status | | | |
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| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| Project Name and Location | | | | | | |
|------------------------------|------|------------|----------------|---------|-----|--|
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| SEWER LONGITUDINAL SECTIONS | | | | | | |
| SHEET 1 | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | UT | 0531 | A | |

File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-ut-0532.dwg



HOR. SCALE 1:250
 VERT. SCALE 1:50
 DATUM:580.000

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|------------------------------------|--|----------------------------|--|----------------------------|--|----------------------------|--|---------------------------|
| GRADE % | | 3.89% | | 4.00% | | 4.58% | | 5.00% |
| PIPE DETAILS (CL to CL LENGTHS) | | 150 UPVC SN8 34.748m | | 150 UPVC SN8 60.042m | | 150 UPVC SN8 63.402m | | 150 UPVC SN8 9.577m |
| DESIGN LEVEL AT MH CL | | 593.321 | | 587.989 | | 587.867 | | 587.970 |
| INVERT LEVEL | | 588.945 | | 587.563 | | 585.131 | | 581.720 |
| COVER | | 0.900 4.215 | | 3.236 3.266 | | 2.545 2.575 | | 1.804 1.834 |
| CHAINAGE | | 98.405 | | 133.153 | | 193.194 | | 266.173 |

S1 LONG SECTION

| | | | |
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| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

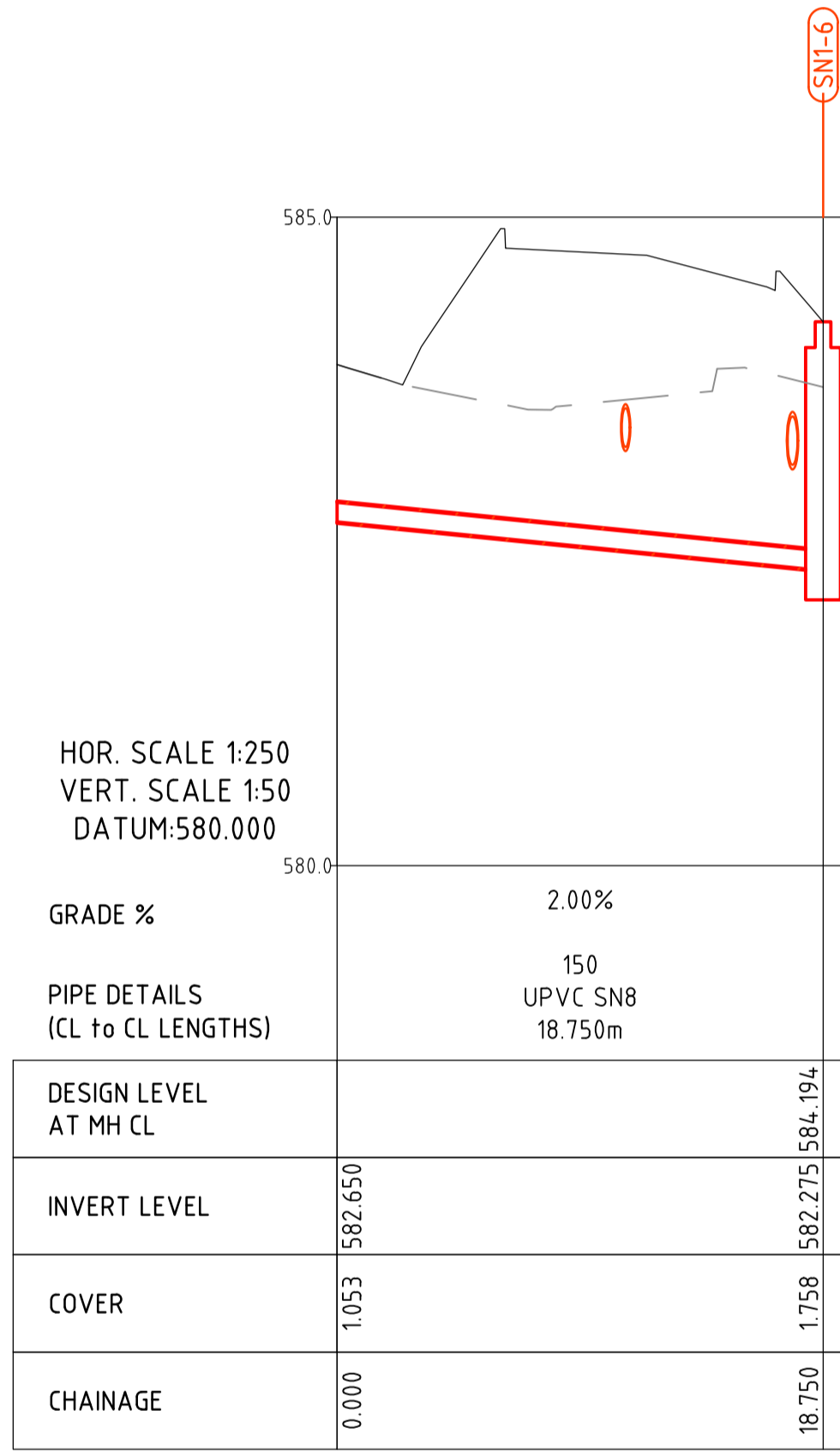
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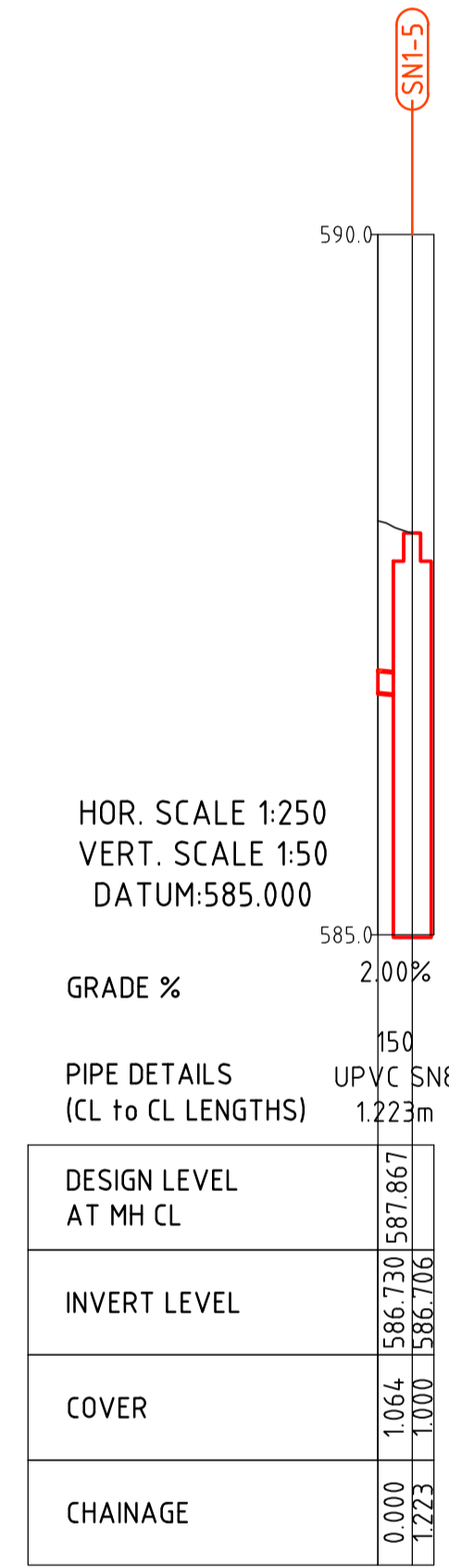
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| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Drafting Check | DCA |
| | | Design Check | AM |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| SEWER LONGITUDINAL SECTIONS | | | | | |
| SHEET 2 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | UT | 0532 | A |

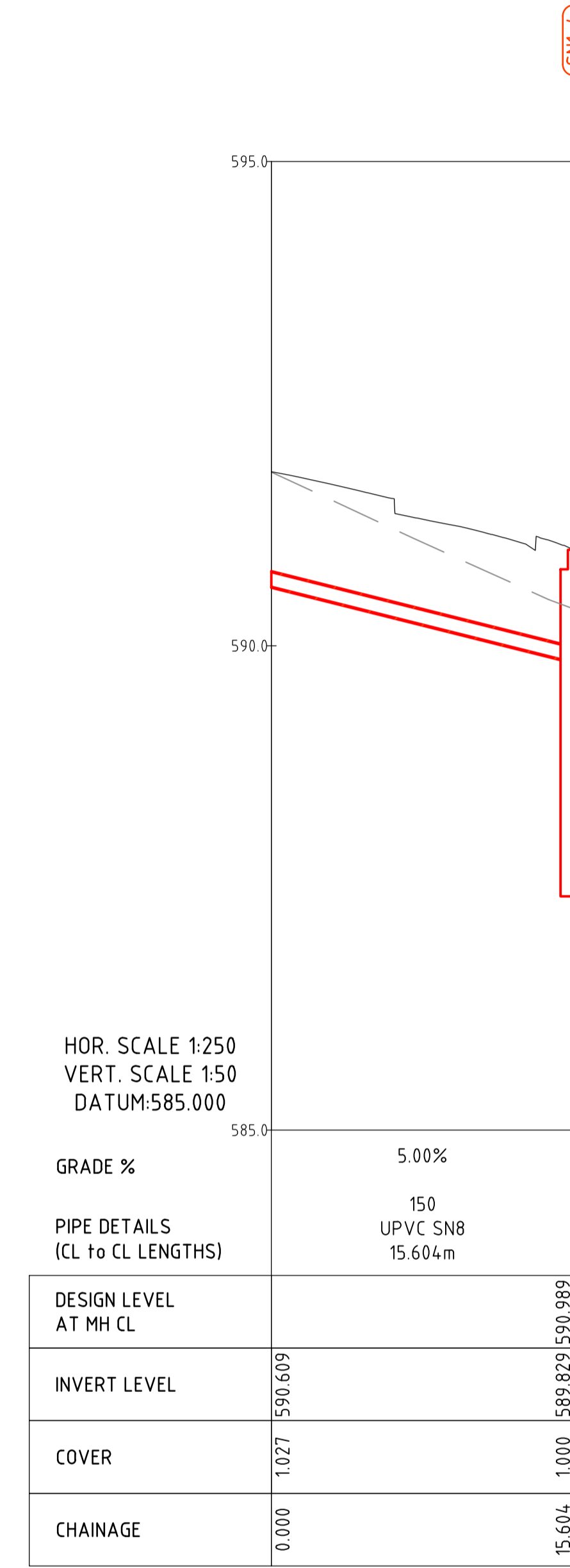
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S2 LONG SECTION



S3 LONG SECTION



S4 LONG SECTION

| | | | |
|-----|-----------------|------------|----------|
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| | | | |
| | | | |
| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

1:250 @ A1

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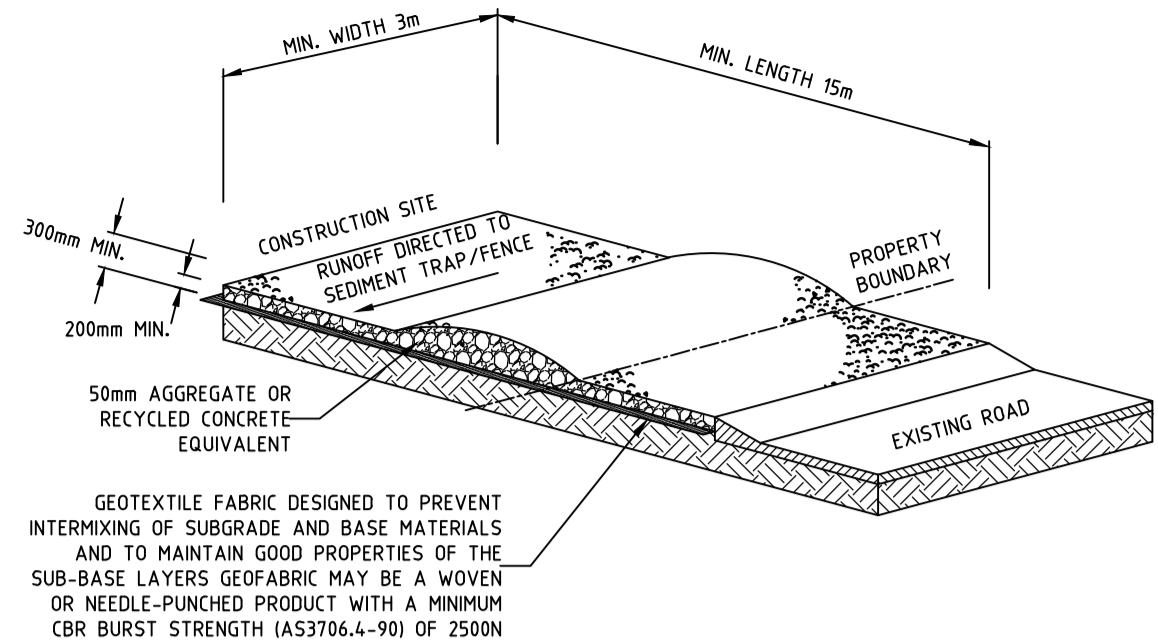
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| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Drafting Check | DCA |
| Coordinate System | STROMLO GRID | Designed By | LT |
| Height Datum | AHD | Design Check | AM |
| | | Approved | BC |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

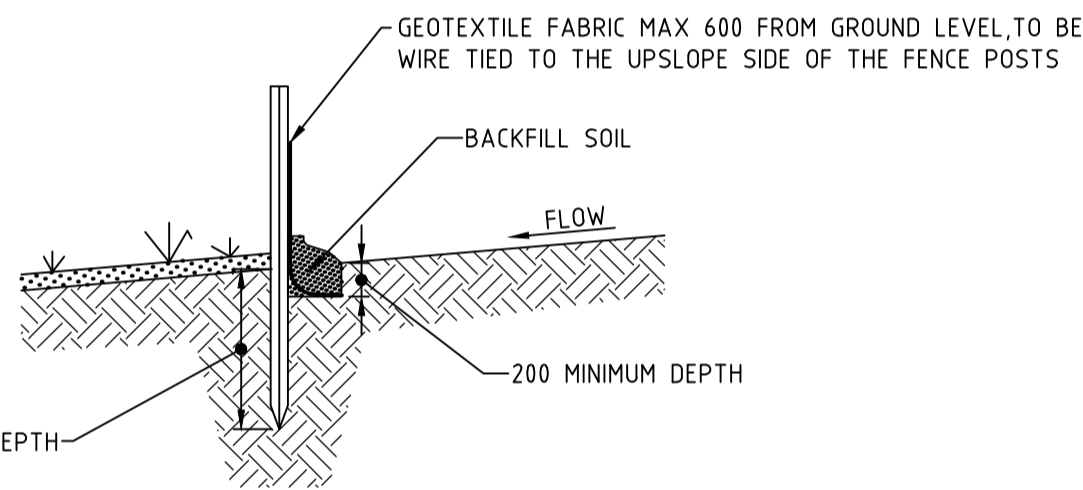
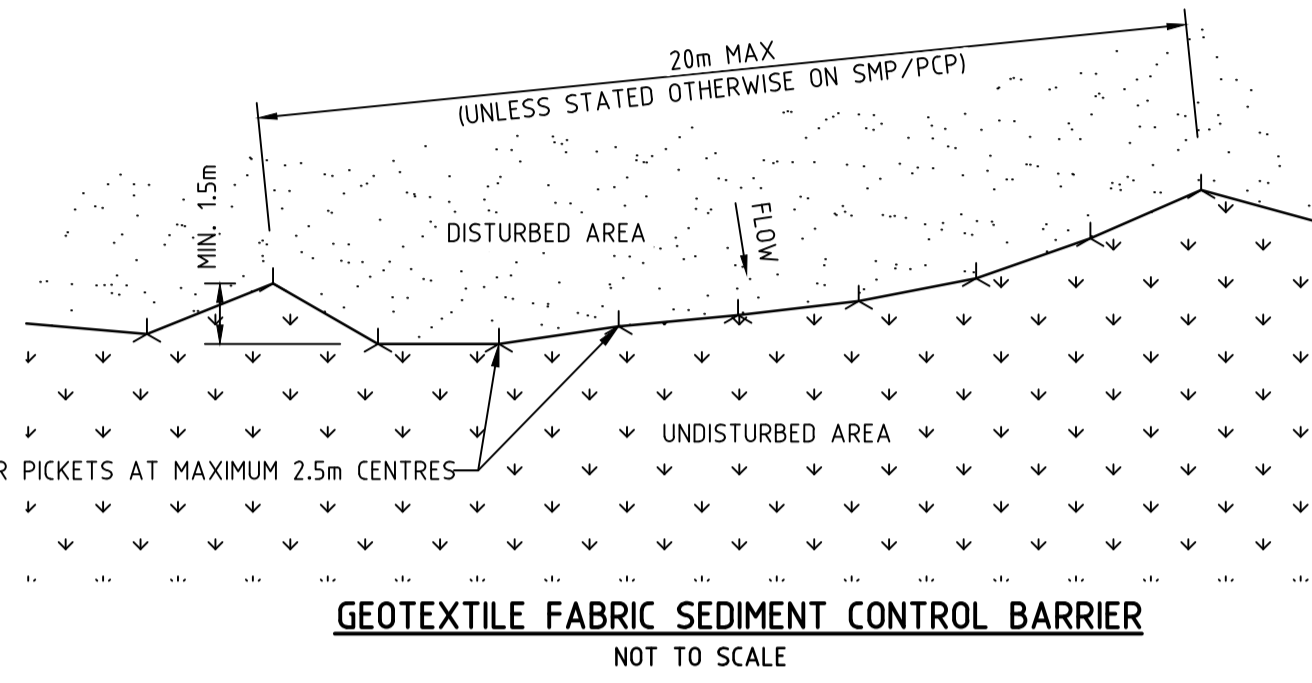
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| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| SEWER LONGITUDINAL SECTIONS | | | | | |
| SHEET 3 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | UT | 0533 | A |

File Name: P:\2018\180658_B4-S38_Campbell\04_CAD\4-2_Drawings\CIV\180658-drg-civ-0900.dwg

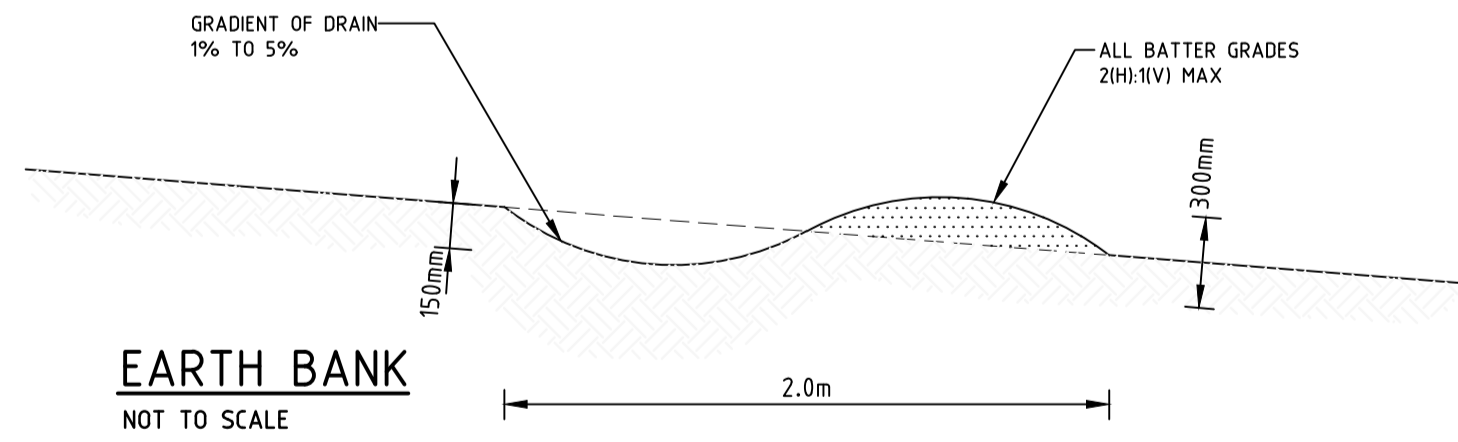
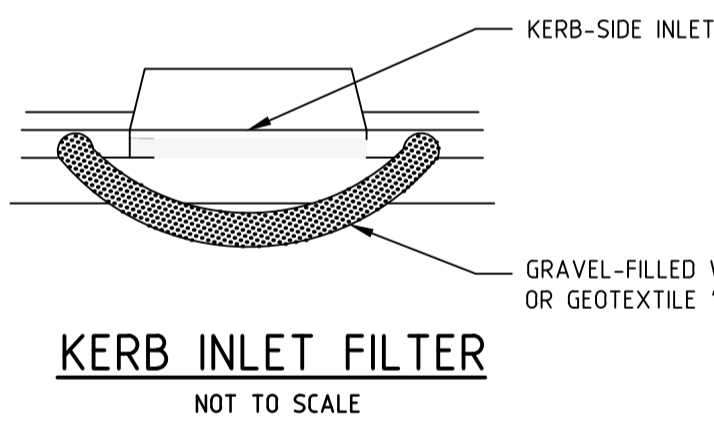
| Rev | Description | Date | Approved |
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| D | FOR INFORMATION | 20.12.2019 | AM |
| C | REVISED FOR NCA CONCEPT PLAN | 21.05.2019 | BC |
| B | NCA CONCEPT PLAN | 22.01.2019 | BC |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC |



STABILISED CONSTRUCTION ENTRANCE
NOT TO SCALE



GEOTEXTILE FABRIC SEDIMENT CONTROL BARRIER SECTION
NOT TO SCALE



CONTACT DETAILS

PROJECT MANAGER: TBC
SITE MANAGER: TBC

HOURS OF OPERATION

SITE WORKS TO BE CONDUCTED ONLY BETWEEN THE FOLLOWING HOURS:

- WEEKDAYS 7.00AM TO 6.00PM;
- SATURDAYS 7.00AM TO 6.00PM
- SUNDAYS BUILDING WORK MUST NOT EXCEED NOISE STANDARD

WASTE NOTES

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

NOISE

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

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

IN ADDITION:

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

SEDIMENT CONTROL POND NOTES

1. DISCHARGE FROM THE POND IS PERMISSIBLE WHEN THE WATER pH IS 6.5-8.5 AND IS CLARIFIED TO OR AT BELOW 60mg/L (50NTU). IF SEDIMENT LEVEL IS GREATER, THEN PRIOR TO DISCHARGE, THE DAM MUST BE DOSED WITH EITHER ALUM OR GYPSUM AND ALLOWED TO SETTLE UNTIL THE SEDIMENT IS LESS THAN 60mg/L (50NTU).
2. WATER LEVEL TO BE MAINTAINED AT LESS THAN 20% OF CAPACITY TO ALLOW RUNOFF STORAGE DURING A RAIN EVENT.
3. REGULAR DREDGING OF THE DAM MUST BE CARRIED OUT TO REMOVE SILT.
4. SITE DRAWING AND DETAILS MUST BE PROVIDED TO ENVIRONMENT PROTECTION AUTHORITY, FOR APPROVAL PRIOR TO WORKS COMMENCING.

NOTE

ALL WORK IS TO COMPLY WITH ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT 2011

FIRE

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

SEDIMENT CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH "ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT" (ENVIRONMENT PROTECTION AUTHORITY MARCH 2011) AND FULLY OPERATIONAL PRIOR TO STRIPPING OF SITE TOP SOIL.
2. STOCK PILES/S TO BE LOCATED AWAY FROM DRAINAGE LINES AND SURFACE FLOW PATHS. CONTOURED STRIATIONS OR FURROWS TO BE PROVIDED TO STOCK PILES TO MINIMISE EROSION.
3. STABILISED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PRIOR TO ACCESS TO SITE BY CONSTRUCTION VEHICLES. AGGREGATE TO BE TURNED WHEN SEDIMENT BUILDS UP AND RENEWED WHEN REQUIRED.
4. WHERE UNDERGROUND STORMWATER DRAINAGE IS INSTALLED TO INTERNAL ROADWORKS, PROVIDE INLET FILTER IN ACCORDANCE WITH GIVEN DETAIL.
5. AVERAGE EXISTING SITE SLOPE: 13.9%
6. TOTAL SITE AREA: 40,107m²
7. ENVIRONMENT PROTECTION AGREEMENT TO BE TAKEN OUT BY BUILDING CONTRACTOR WITH ENVIRONMENT PROTECTION AUTHORITY. (TELEPHONE 132281)
8. ALL NEW CONSTRUCTION WORK MUST BE CONTAINED WITHIN THE SITE EXCEPT FOR APPROVED SERVICE CONNECTIONS AND ROADWORKS.
9. LIMIT ACCESS TO SITE DURING AND IMMEDIATELY AFTER WET WEATHER.
10. REGULARLY REMOVE ANY SOIL FROM ROADS ADJACENT TO THE SITE.
11. NO STORAGE OF CONSTRUCTION MATERIALS, PARKING OF VEHICLES NOR EQUIPMENT PERMITTED OUTSIDE OF BLOCK WITHOUT TCCS APPROVAL.
12. NO SITE SHEDS, STORAGE SHEDS OR SITE AMENITIES TO BE ERECTED OUTSIDE OF BLOCK WITHOUT TCCS APPROVAL.
13. PROVIDE KERBSIDE FILTER ROLL TO EXISTING SUMPS WHERE INDICATED, REFER TO GIVEN DETAIL.
14. KERBSIDE FILTER ROLLS TO BE REMOVED, CLEANED AND REINSTATE ON A WEEKLY BASIS AT A MINIMUM. TRAPPED SEDIMENT ABOUT SUMPS ALSO TO BE REMOVED. CLEANING IS ALSO TO TAKE PLACE IMMEDIATELY AFTER PERIODS OF RAINFALL DURING CONSTRUCTION.
15. ALL SERVICE TRENCHES TO BE BACK FILLED WITHIN 24 HOURS OF INSPECTION.
16. EXCESS SOIL IS TO BE DISPOSED AT AN ENVIRONMENT PROTECTION AUTHORITY APPROVED LOCATION.
17. THE SITE FOREMAN IS TO CONTACT THE ENVIRONMENT PROTECTION AUTHORITY (132281) TO ARRANGE A SITE INSPECTION AND ENDORSEMENT OF SEDIMENT AND EROSION CONTROL MEASURES PRIOR TO WORKS COMMENCING.
18. THE SITE FOREMAN IS TO CONTACT THE ENVIRONMENT PROTECTION AUTHORITY (132281) TO DISCUSS ANY PROPOSED MAJOR CHANGES TO SEDIMENT AND EROSION CONTROLS ON SITE PRIOR TO IMPLEMENTING THE CHANGES.
19. THE SITE FOREMAN IS TO ENSURE CONTRACTOR'S ACCESS AND EXIT THE SITE USING ONLY ENVIRONMENT PROTECTION AUTHORITY APPROVED STABILISED ACCESS/EXIT POINTS AS DETAILED ON ENDORSED SEDIMENT AND EROSION CONTROL PLANS.

MAINTENANCE SCHEDULE

WEEKLY:

CHECK AND REINSTATE SILT CONTROL FENCES.

DAILY:

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

DURING/AFTER WET WEATHER:

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

DUST MANAGEMENT

WHERE BUILDING WORK GENERATES DUST, ALL REASONABLE AND PRACTICABLE MEASURES SHOULD BE TAKEN TO MINIMISE THAT DUST.

THIS CAN OFTEN BE ACHIEVED BY

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

DISPOSAL OF SPOIL

PRIOR TO ANY WORKS COMMENCING INVOLVING EXPORT OF SPOIL GREATER THAN 100m³, THE FOLLOWING INFORMATION MUST BE PROVIDED TO THE ENVIRONMENT PROTECTION AUTHORITY VIA EMAIL (environment.protection@act.gov.au).

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

SPOIL MAY BE TAKEN TO AN APPROVED LANDFILL SITE WITHOUT APPROVAL. IF THE SPOIL IS TO BE TAKEN TO AN AREA OTHER THAN APPROVED LANDFILL SITE, ENSURE THE ACCEPTOR OF THE SPOIL IS AWARE OF THE REQUIREMENTS SETOUT IN SECTION 8.2 OF THE ENVIRONMENT PROTECTION GUIDELINES FOR CONSTRUCTION AND LAND DEVELOPMENT IN THE ACT.

ON-SITE MANAGEMENT OF VERGES AND OPEN SPACE

1 GENERAL

- BEFORE COMMENCING WORKS, THE COORDINATOR SHALL ADVISE ASSET ACCEPTANCE (AA) IN WRITING THAT THE PROTECTIVE MEASURES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED LANDSCAPE MANAGEMENT PROTECTION PLAN (LMPP). RANDOM AUDITS WILL BE UNDERTAKEN BY AA TO ENSURE COMPLIANCE. FAILURE TO COMPLY MAY INCUR THE ISSUE OF A STOP WORK NOTICE.
- ALL WORKS SHALL BE CONTAINED WITHIN THE AUTHORISED SITE EXCEPT FOR APPROVED SERVICE CONNECTIONS IN THE VERGE OR OTHER APPROVED EXCEPTIONS
- DURING THE PROGRESS OF THE WORKS ALL EXISTING VERGE GRASS COVER SHALL BE MAINTAINED IN ITS PRE-EXISTING CONDITION. PROTECTIVE MEASURES SHALL INCLUDE REGULAR WATERING TO MAINTAIN GRASS AND TREES IN GOOD CONDITION
- WHERE THE SURFACE IS GRASS OR BARE SOIL WITHOUT TREES, NO PROTECTION IS REQUIRED, HOWEVER TOPSOIL OR GRASS OR OTHER APPROVED SURFACES, ARE INSTALLED AT THE COMPLETION OF THE WORKS IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS".

2 SUPERVISION

- FOR ALL WORKS, OTHER THAN MINOR WORKS (I.E. MINOR IN COMPLEXITY AND/OR SCOPE OF WORKS AND CONFIRMED AS MINOR WORKS BY AA), AND UNLESS OTHERWISE APPROVED BY AA, A SUITABLY QUALIFIED LANDSCAPE ARCHITECT OR HORTICULTURIST SHALL BE EMPLOYED TO ENSURE THAT THE WORK IN THE VERGE MEETS THE REQUIREMENTS. THE ARCHITECT/HORTICULTURIST SHALL ALSO BE PRESENT DURING ANY CULTIVATION OR RESTORATION OF THE VERGE WHICH AFFECTS PLANT MATERIAL AND SHALL PROVIDE CERTIFICATION, ENDORSED BY THE COORDINATOR, THAT ALL WORK, CULTIVATION AND RESTORATION HAVE BEEN PERFORMED TO INDUSTRY STANDARDS.

3 STORAGE OF CONSTRUCTION MATERIALS

- THE STORAGE OF CONSTRUCTION MATERIALS AND THE PARKING OF VEHICLES OR EQUIPMENT ON VERGES OR ADJACENT PUBLIC OPEN SPACES ARE NOT PERMITTED WITHOUT PRIOR APPROVAL FROM TCCS. WHERE THERE IS NO ALTERNATIVE AVAILABLE OTHER THAN TO USE THESE AREAS FOR STORAGE AND/OR PARKING, THE COORDINATOR MAY LODGE AN APPLICATION WITH THE LMPP REQUESTING APPROVAL FOR THE USE OF THESE AREAS FOR THE DESIGNATED PURPOSES. APPROVAL MAY BE GIVEN BY TCCS SUBJECT TO CERTAIN TERMS AND CONDITIONS OF USE.

4 SITE ACCOMMODATION

- GENERALLY, SITE SHEDS, STORAGE SHEDS, SITE AMENITIES OR BILLBOARDS ARE NOT TO BE ERECTED ON VERGES OR PUBLIC OPEN SPACES WITHOUT PRIOR APPROVAL. SHOULD THERE BE NO ALTERNATIVE, THE COORDINATOR MAY LODGE AN APPLICATION WITH THE LMPP REQUESTING APPROVAL TO ERECT SUCH A STRUCTURE ON THE AREA. THE ERECTION OF SITE ACCOMMODATION MAY BE APPROVED SUBJECT TO THE COORDINATOR'S AGREEMENT TO COMPLY WITH THE TERMS AND CONDITIONS SPECIFIED BY AA AND OBTAINING A PERMIT UNDER THE ROADS AND PUBLIC PLACES ACT 1937 FROM TCCS PCL.

5 PROTECTIVE FENCING

5.1 EXTENT

- ALL TEMPORARY PROTECTIVE FENCES ERECTED TO PROTECT EXISTING ASSETS SHALL BE IN ACCORDANCE WITH THE APPROVED LMPP DRAWING. FENCING SHALL BE ERECTED BEFORE THE COMMENCEMENT OF ANY SITE WORKS AND REMOVED AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITY EXCEPT DURING VERGE RESTORATION. THE FENCE SHALL REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION PERIOD.
- EXISTING TREES, PLANTINGS AND GRASS SHALL BE FENCED OFF TO ENCLOSE THE STREET VERGE, PUBLIC OPEN SPACE OR UNLEASED TERRITORY LAND AREA. UNLESS OTHERWISE APPROVED BY AA, PROTECTIVE FENCING SHALL BE LOCATED:
 - ALONG THE DRIP-LINE OF EACH TREE (AS A MINIMUM), AND
 - 12M FROM THE BACK OF THE KERB FOR THE FULL FRONTAGE OF THE LEASE, ALONG THE PROPERTY BOUNDARY AND ALONG THE APPROVED DRIVEWAY ACCESS TO ENSURE THAT THE VERGE IS COMPLETELY ENCLOSED

5.2 MATERIALS

- USE OF TEMPORARY 1800MM TALL CONTINUOUS MESH FENCE SUPPORTED BY STEEL POSTS WITH CONCRETE BASES, OR PREFABRICATED FENCING PANELS WITH CONCRETE BASES, IS MANDATORY. ANY VARIATION FROM THIS REQUIREMENT SHALL BE ACCOMPANIED BY WRITTEN APPROVAL FROM AA.

5.3 PEDESTRIAN AND TRAFFIC CONSIDERATIONS

- EXISTING VERGE FOOTPATHS SHALL BE MAINTAINED. ALL EXISTING VERGE FOOTPATHS AND DRIVEWAYS SHALL REMAIN UNOBSTRUCTED THROUGHOUT THE CONSTRUCTION PERIOD TO PROVIDE SAFE PEDESTRIAN MOVEMENT AT ALL TIMES UNLESS AN ALTERNATIVE IS APPROVED BY TCCS.
- WHERE A CONSTRUCTED FOOTPATH OR CYCLEWAY EXISTS WITHIN THE VERGE, PROTECTIVE FENCING INCLUDING THE CONCRETE PEDESTALS SHALL BE ERECTED TO PROVIDE A CLEAR AND UNOBSTRUCTED SET BACK OF 0.6M FROM EACH SIDE OF THE FOOTPATH/CYCLEWAY IN ALL CASES TO ENSURE SAFE PASSAGE FOR CYCLISTS AND PEDESTRIANS.
- IF THERE IS NO CONSTRUCTED PUBLIC FOOTPATH ON THE VERGE A FENCED CLEARWAY OF 1.8M IN WIDTH SHALL BE MAINTAINED FOR THE ENTIRE FRONTAGE OF THE LEASE TO ALLOW FOR CYCLISTS AND PEDESTRIANS.
- ANY DEVIATIONS FROM THE DISTANCES SPECIFIED IN THIS CLAUSE DEEMED NECESSARY BECAUSE OF LOCAL RESTRAINTS REQUIRE PRIOR APPROVAL FROM AA.
- ACCESS GATES INTO THE SITE SHALL SWING INTO THE SITE AND NOT BE CAPABLE OF BLOCKING PEDESTRIAN ACCESS ALONG THE VERGE OR VEHICULAR TRAFFIC ON THE ROAD.

5.4 ACCESS FOR SERVICE INSTALLATIONS

- FENCING SHALL NOT BE REMOVED FOR SERVICE INSTALLATION ACROSS THE VERGE WITHOUT PRIOR APPROVAL FROM AA FOR THE SERVICE INSTALLATION.
- WHERE APPROVAL HAS BEEN GRANTED, THE FENCE SHALL BE REALIGNED TO PROVIDE A LANE FOR SERVICE TRENCHING BUT FENCES SHALL BE RE-ERECT TO ENCLOSE TREES BEFORE TRENCHING COMMENCES. UPON COMPLETION OF TRENCHING, THE FENCE SHALL BE RETURNED TO ITS ORIGINAL ALIGNMENT.

6 EXISTING TREES

6.1 GENERAL

- ALL TREES LOCATED IN THE ROAD RESERVE, VERGE, PUBLIC OPEN SPACE AND ON UNLEASED TERRITORY LAND, SHALL BE RETAINED AND MUST REMAIN UNDAMAGED. THE LMPP PROCESS REQUIRES THE COORDINATOR TO IDENTIFY ANY TREES THAT MAY BE AFFECTED BY THE WORKS AND TO SUBMIT A REQUEST FOR APPROVAL TO PROCEED WITH THE WORK CLEARLY IDENTIFYING THE NATURE OF THE WORK AFFECTING THE TREE AND PROTECTIVE MEASURES PROPOSED TO MINIMISE DAMAGE TO THE TREE. WRITTEN AUTHORISATION FROM AA IS REQUIRED PRIOR TO ANY WORK AFFECTING THE TREE TAKING PLACE. AUTHORISATION WILL BE SUBJECT TO:
 - EXISTING CANOPY CLEARANCE NOT BEING ALTERED;
 - CROWNS AND APEX OF CANOPIES NOT BEING ALTERED OR REDUCED;
 - LIFTING EQUIPMENT AND LOAD CAPABLE OF OPERATING IN A MANNER THAT IT CLEARS THE HEIGHT AND WIDTH OF THE TREE CANOPY WITHOUT DAMAGING THE CROWN, AND
 - CONSTRUCTION EQUIPMENT CAN PASS BENEATH THE TREES' LOWEST LIMB THROUGH THE DESIGNATED DRIVEWAY ACCESS ROUTE.

6.2 TREE ROOT PROTECTION

- THE MAJORITY OF TREE ROOTS GROW IN THE TOP 300MM OF SOIL. THESE ARE THE FEEDER ROOTS, OFTEN VERY FINE ROOTS THAT PROVIDE THE TREE WITH WATER, OXYGEN AND NUTRIENTS. THESE ROOTS TYPICALLY GROW FROM THE TRUNK OF THE TREE TO WELL BEYOND ITS 'DRIP-LINE' (THE CANOPY EDGE).
- EXCAVATION WITHIN THE DRIP ZONE OF A TREE DOES CONSIDERABLE DAMAGE TO ITS ROOT SYSTEM. IT CAN AFFECT TREE STABILITY AND TREE HEALTH TO SUCH AN EXTENT THAT IT WILL LEAD TO THE DECLINE AND POSSIBLE DEATH OF THE TREE OVER A PERIOD OF YEARS.
- EXCAVATION THAT OCCURS WITHIN THE DRIP ZONE OF A TREE SHALL BE RESTRICTED TO ONE SIDE OF THE TREE ONLY AND SHALL HAVE PRIOR APPROVAL FROM AA.
- WHERE EXCAVATION IS APPROVED, THE FOLLOWING MEASURES SHALL BE ADOPTED FOR TREE PROTECTION:
 - DO NOT SEVER LARGE ROOTS (>30MM DIAMETER) CLOSER THAN HALFWAY FROM THE DRIP-LINE TO THE TRUNK;
 - LOCATE THESE ROOTS BY HAND TRENCHING TO A DEPTH OF 300MM BEFORE ANY MECHANICAL TRENCHING IS UNDERTAKEN;
 - CUT ALL ROOTS CLEANLY WITH EQUIPMENT SPECIFICALLY DESIGNED FOR THIS PURPOSE OR BY SUITABLE PRUNING EQUIPMENT;
 - PROTECT ROOTS EXPOSED FROM DESICCATION BY LIGHTLY WATERED OR COVERING WITH HESSIAN, WHICH MUST BE KEPT MOIST, AND
 - MAINTAIN THE GOOD HEALTH OF THE TREES THAT HAVE HAD DISTURBANCE IN THEIR ROOT ZONE BY CONTINUAL WATERING, AT NO TIME SHALL THE DISTURBED AREA BE ALLOWED TO DRY OUT TO THE DETRIMENT OF THE TREES HEALTH.

7 SITE ACCESS

- SITE ACCESS SHALL BE BY THE EXISTING DRIVEWAY ACCESS POINTS FOR THE WORKS.
- IN SOME CASES CONSIDERATION MAY BE GIVEN TO ALLOWING NEW ACCESS POINTS ACROSS PUBLIC LAND, HOWEVER, ALTERNATIVE OR ADDITIONAL ACCESS POINTS REQUIRE APPROVAL FROM AA. WHERE APPROVAL HAS BEEN GRANTED, THE SITE ACCESS SHALL BE POSITIONED MIDWAY BETWEEN TWO EXISTING TREE TRUNKS DEPENDENT ON THE DISTANCE BETWEEN TREES. ACCESS SHALL NOT OCCUR ON TWO SIDES OF A TREE WITHIN THE APPROVED CLEARANCE DIMENSION.
- CONSTRUCTION TECHNIQUE SHALL MINIMISE THE NEED FOR EXCAVATION ACROSS THE VERGE.
- ACCESS ACROSS ADJOINING PUBLIC OPEN SPACES, PARKS, RECREATIONAL RESERVES, ADJOINING PROPERTIES E.G. SCHOOL PLAYGROUNDS, COMMUNITY HALLS ETC. IS PROHIBITED WITHOUT PRIOR WRITTEN AUTHORISATION FROM TCCS, AND ANY OTHER ASSET OWNER WHERE APPLICABLE.

8 SERVICES AND UTILITIES

8.1 SERVICE CONNECTION TO SITE

- THE COORDINATOR SHALL COORDINATE AND COLLATE ALL APPROVALS FOR PROPOSED SERVICES WITHIN THE AREA.
- APPROVAL FOR TRENCH LOCATIONS AND EXCAVATIONS WITHIN THE VERGE SHALL BE OBTAINED THROUGH THE RELEVANT TCCS AGENCIES AT THE PLANNING AND DESIGN STAGES. APPROVAL IS SUBJECT TO THE FOLLOWING REQUIREMENTS:
 - IF THE PROPOSED EXCAVATION IS WITHIN THE CANOPY SPREAD OF ANY TREE, BORING OR TUNNELING BELOW THE ROOT ZONE MUST BE UNDERTAKEN;
 - SHARED TRENCHING FOR SERVICES IS MANDATORY;
 - THE NUMBER OF VERGE CROSSINGS SHALL BE MINIMISED;
 - EXCAVATION FOR SERVICES ACROSS VERGE (I.E. AT RIGHT ANGLES TO KERB OR PROPERTY LINE) SHALL BE MIDWAY BETWEEN THE TREE TRUNKS
 - ANY SERVICE INSTALLATION WITHIN 5.0M OF AN EXISTING TREE TRUNK, OR WITHIN THE TREE CANOPY, REQUIRES PRIOR APPROVAL.

8.2 SERVICES AND UTILITIES ALONG ROAD RESERVES

- THE COORDINATOR SHALL COORDINATE ALL SERVICE APPROVALS; APPROVAL BY AA FOR TRENCH LOCATIONS SHALL BE OBTAINED AS PART OF THE LMPP PROCESS.
- TO MINIMISE DAMAGE AND/OR DISTURBANCES TO THE ROOTS OR ROOT ZONE AND SUBJECT TO APPROVAL BY AA, ANY NEW OR UPGRADED SERVICES PARALLEL TO THE KERB OR PROPERTY LINE SHALL BE INSTALLED ON THE FOLLOWING ALIGNMENTS:
 - WITHIN ROAD PAVED AREAS;
 - BELOW THE ROOT ZONE IF THE EXCAVATION REQUIRED IS WITHIN THE CANOPY SPREAD OF ANY TREE;
 - BELOW THE EXISTING FOOTPATH ON THE PROPERTY LINE, AND
 - IMMEDIATELY BEHIND THE KERB.

9 IRRIGATION

- PARKS CONSERVATION AND LANDS (PCL) ACTIVELY DISCOURAGES THE USE OF IN-GROUND IRRIGATION SYSTEMS AND GENERALLY DOES NOT ENDORSE THEIR INSTALLATION IN THE VERGE. HOWEVER, A SYSTEM OF QUICK-COUPERS AT THE LEASE EDGE OF THE VERGE MAY BE INSTALLED SUBJECT TO APPROVAL OF THE IRRIGATION PLAN BY PCL. A PREFERRED ALTERNATIVE IS THE PLANTING OF DROUGHT TOLERANT GRASSES AND SHRUBS THAT ARE NOT RELIANT ON WATERING TO SURVIVE.

10 VERGE INFRASTRUCTURE CONDITION AND RESTORATION

- THE COORDINATOR SHALL NOTIFY AA AT THE COMPLETION OF WORK AND OBTAIN APPROVAL PRIOR TO COMMENCEMENT OF ANY VERGE RESTORATION. DURING VERGE RESTORATION, TOPSOIL SHALL NOT BE REMOVED AND THE SOIL LEVEL SHALL NOT BE CHANGED WITHIN THE DRIP ZONE OF TREES OR AS OTHERWISE APPROVED AND, UPON COMPLETION OF THE WORKS, VERGES SHALL HAVE ESTABLISHED APPROPRIATE GRASS COVER AS APPROVED BY PCL, E.G. DRYLAND GRASS, NATIVE GRASS OR COUCH.
- IF THE STANDARD OF GRASS COVER ON THE VERGE NEEDS TO BE IMPROVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:
 - WITHIN THE ROOT ZONE OF TREES, LIGHTLY CULTIVATE THE SOIL IN ONE DIRECTION ONLY TO BETWEEN 25MM TO 50MM DEPTH (50MM MAXIMUM TO MINIMISE DAMAGE TO TREE ROOTS). AVOID MAJOR ROOTS AND KEEP A MINIMUM OF 1M AWAY FROM TREE TRUNKS;
 - OUTSIDE THE ROOT ZONE OF TREES NORMAL CULTIVATION PRACTICE APPLIES;
 - ADD 'B' TYPE TOPSOIL AT 25MM TO 50MM DEPTH. LEVEL THE TOPSOIL AND ADD NPK FERTILISER (EQUIVALENT TO MULTIGRO) AT 40G/M², AND
 - LAY TURF OR SOW SEED OF SUITABLE DROUGHT TOLERANT SPECIES AS SPECIFIED IN THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS. KEEP MOIST DURING ESTABLISHMENT.

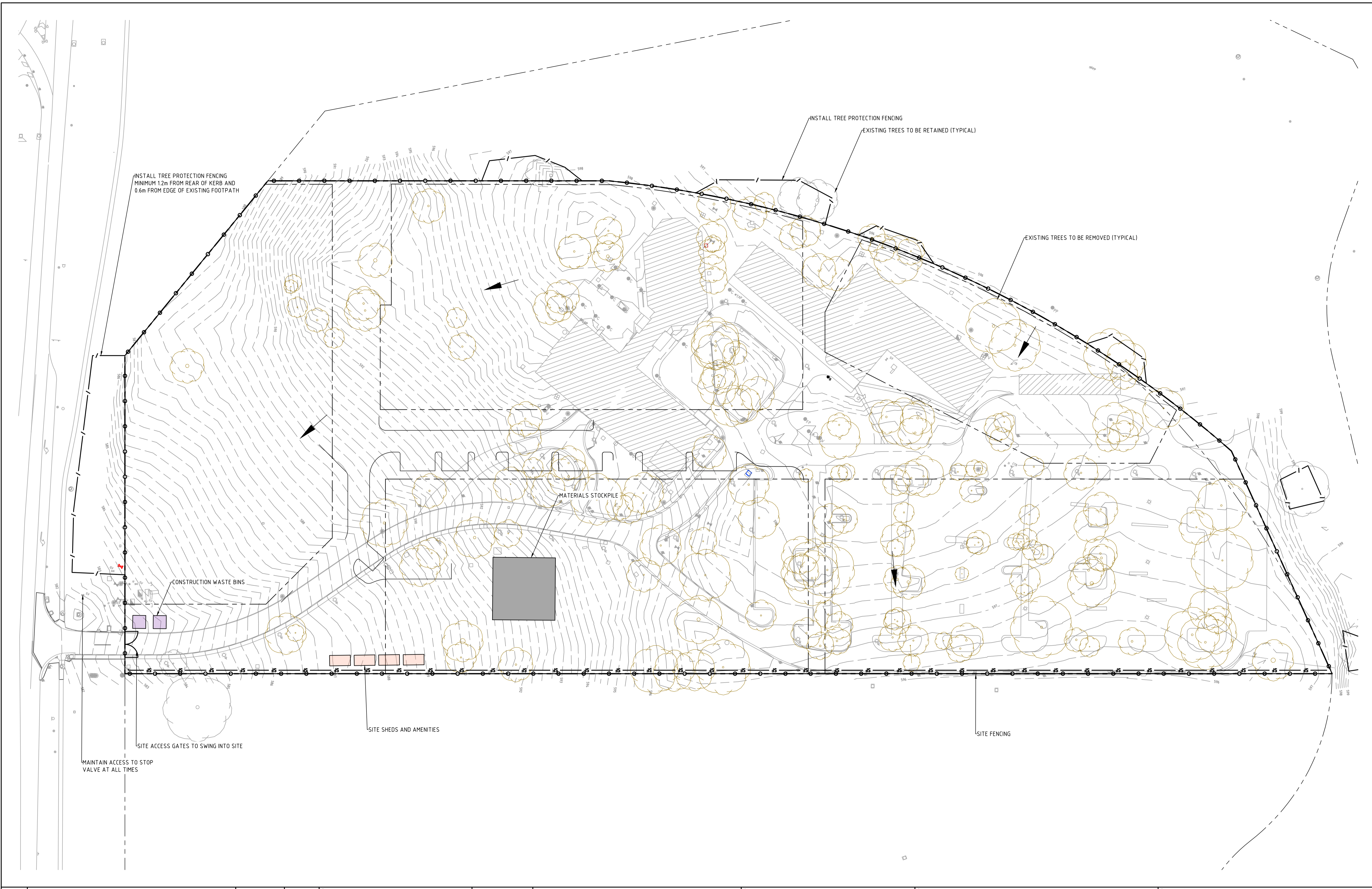
ALL RESTORATION WORK SHALL BE APPROVED BY AA AND CARRIED OUT BY APPROVED OPERATORS.

| | | Scale | North | Client Logo | | Status | Project Name and Location | | | | | | | |
|-----|------------------------------|------------|----------|-------------|--|---------------------------------|--|---------------------------|---|-----------|-----------------|--------------------|---------------|--------|
| | | | | | | NOT FOR CONSTRUCTION | RESIDENTIAL DEVELOPMENT BLOCK 4 SECTION 38, CAMPBELL | | | | | | | |
| D | FOR INFORMATION | 20.12.2019 | AM | | | Original Size: A1 | Drawn By: RT | Drafting Check: DCA | Drawing Title: ENVIRONMENTAL MANAGEMENT | | | | | |
| C | REVISED FOR NCA CONCEPT PLAN | 21.05.2019 | BC | | | Date Plotted: 20-Dec-19 | Designed By: LT | Design Check: AM | NOTES AND DETAILS | | | | | |
| B | NCA CONCEPT PLAN | 22.01.2019 | BC | | | Coordinate System: STROMLO GRID | Approved: BC | Approved Date: 24.08.2018 | Project Number: 180658 | Type: DRG | Discipline: CIV | Sub-Discipline: EV | Drg No.: 0900 | Rev: D |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC | | | Height Datum: AHD | Approved Signature: | | | | | | | |
| Rev | Description | Date | Approved | | | | | | | | | | | |

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File Name: P:\2018\180658_B4-S38-Campbell\04_CAD\4.2_Drawings\CIV\180658-drg-civ-ev-0901.dwg



| Rev | Description | Date | Approved |
|-----|------------------------------|------------|----------|
| D | FOR INFORMATION | 20.12.2019 | AM |
| C | REVISED FOR NCA CONCEPT PLAN | 21.05.2019 | BC |
| B | NCA CONCEPT PLAN | 22.01.2019 | BC |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC |

Scales

0 10 15 20 25m

1:500 @ A1

North

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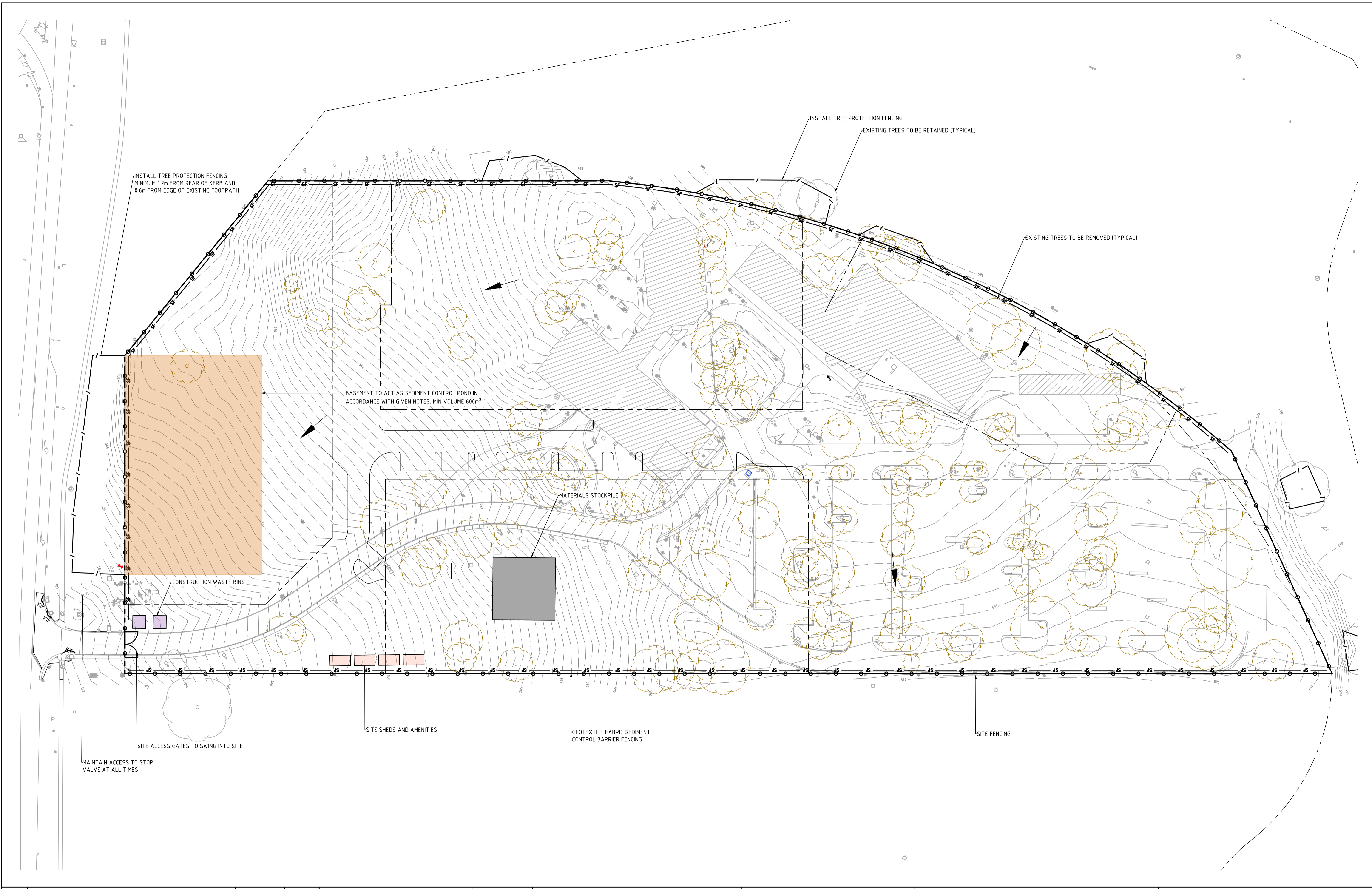
Client Logo



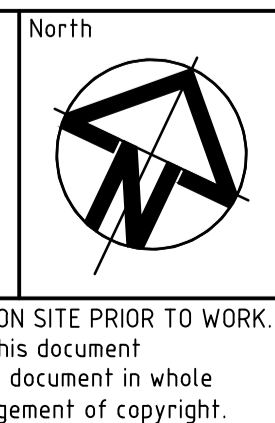
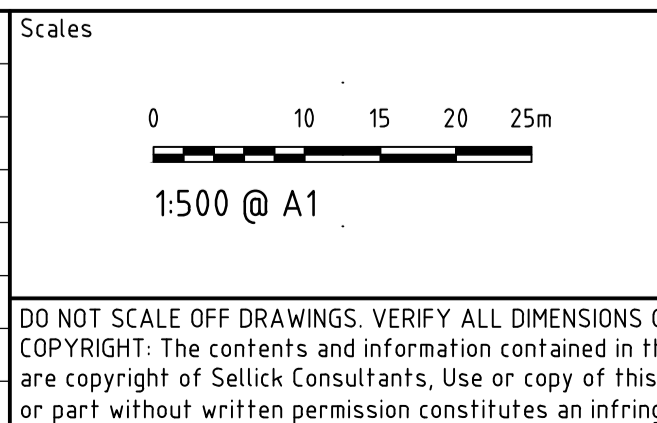
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| Status | | | |
| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|--|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| ENVIRONMENTAL LANDSCAPE MANAGEMENT AND PROTECTION PLAN | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | EV | 0901 | D |

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| Rev | Description | Date | Approved |
|-----|------------------------------|------------|----------|
| D | FOR INFORMATION | 20.12.2019 | AM |
| C | REVISED FOR NCA CONCEPT PLAN | 21.05.2019 | BC |
| B | NCA CONCEPT PLAN | 22.01.2019 | BC |
| A | NCA CONCEPT PLAN | 24.08.2018 | BC |



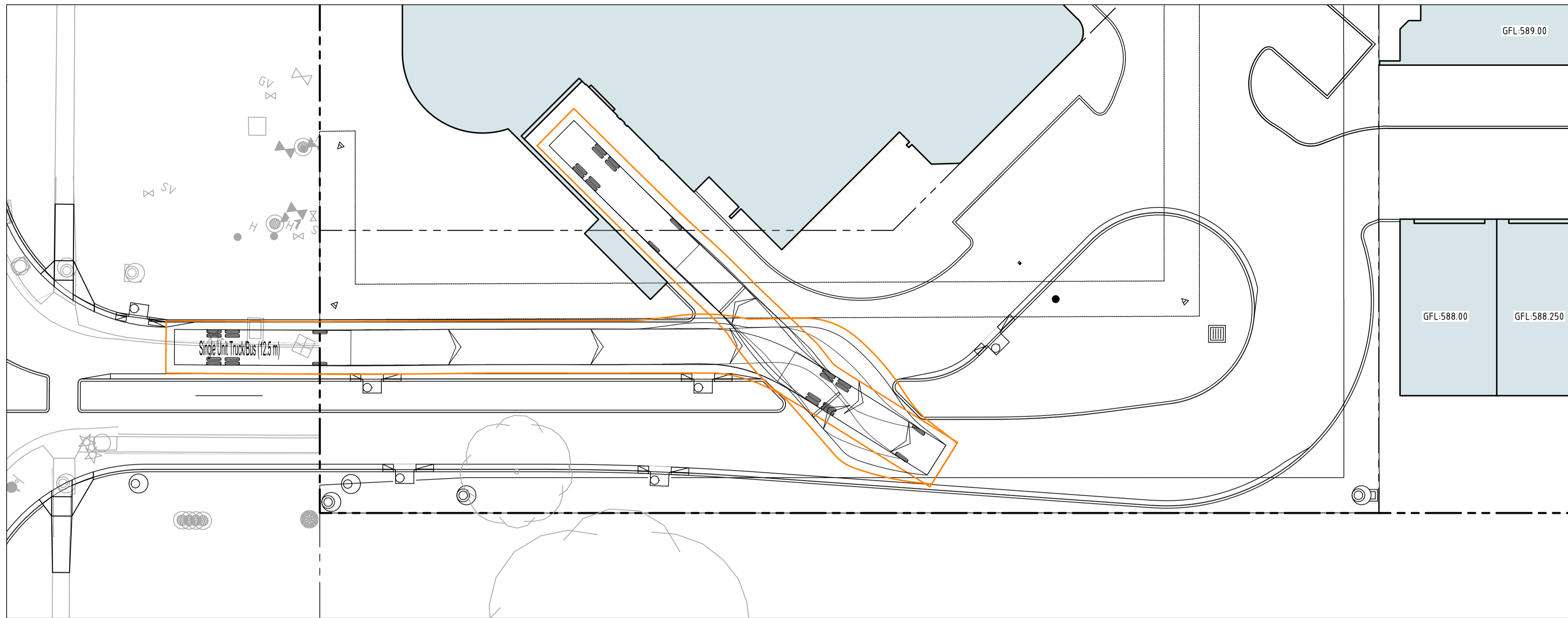
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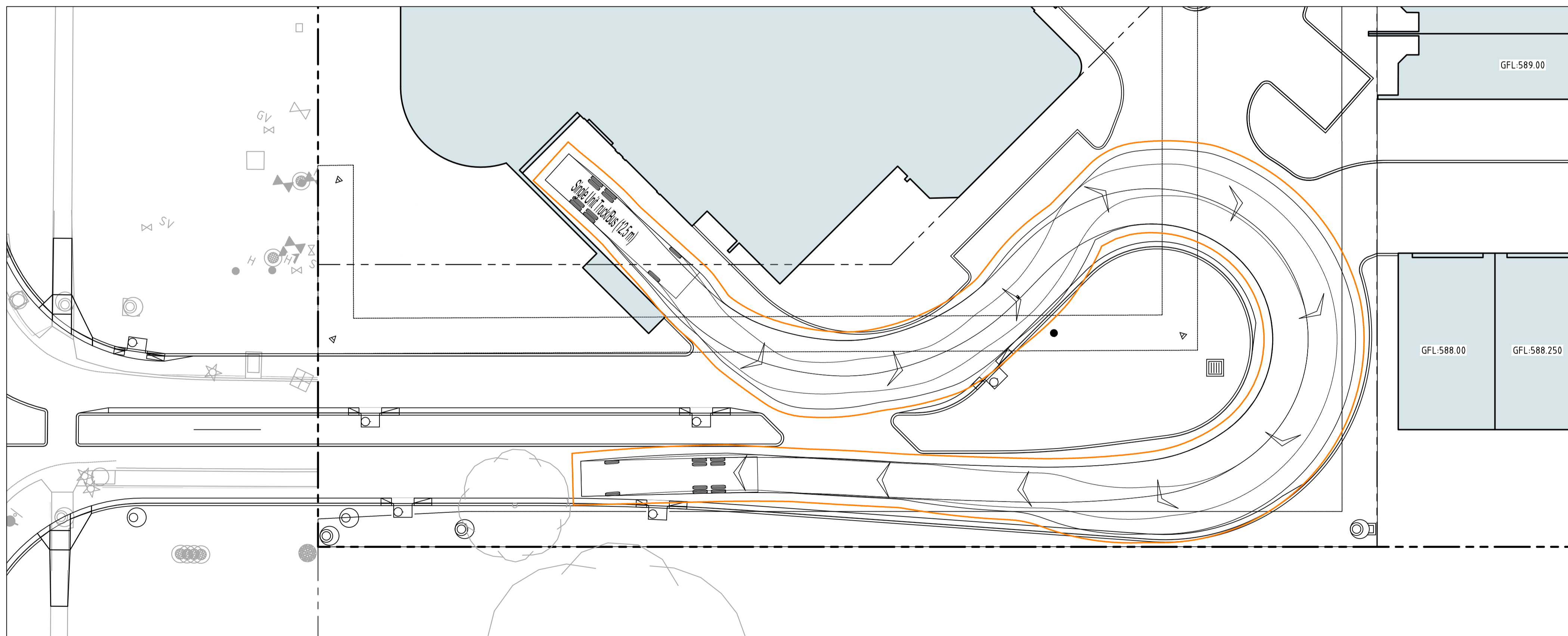
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| NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| Project Name and Location | | | | | | |
|---|------|------------|----------------|---------|-----|--|
| RESIDENTIAL DEVELOPMENT | | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | | |
| Drawing Title | | | | | | |
| ENVIRONMENTAL MANAGEMENT AND SEDIMENT EROSION CONTROL PLAN | | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev | |
| 180658 | DRG | CIV | EV | 0902 | D | |

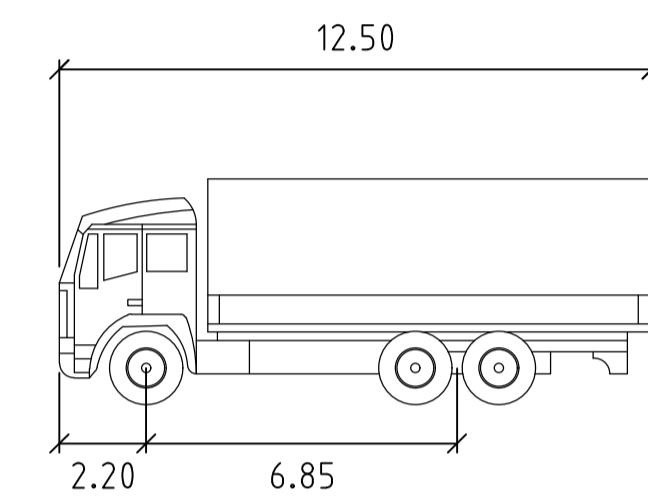
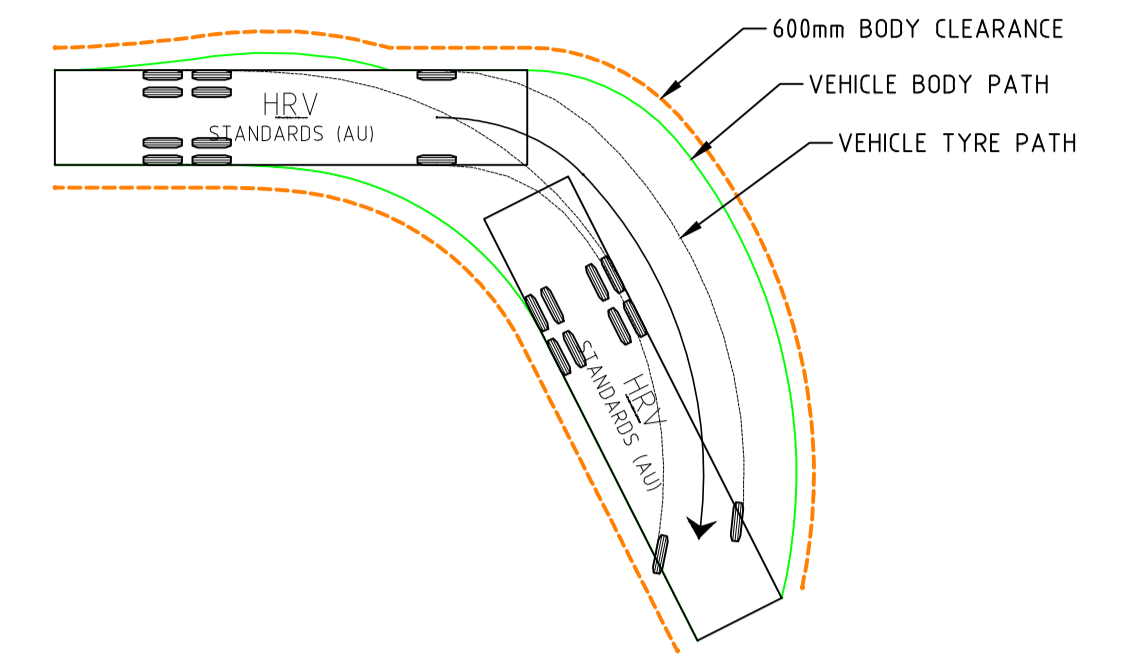
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HRV REVERSE INTO WASTE FOR REAR COLLECTION
SCALE 1:200



HRV EXIT FROM SITE
SCALE 1:200



SINGLE UNIT TRUCK (HRV)

| | |
|-------------------|--------|
| Width | 2.50m |
| Track | 2.50m |
| Lock to Lock Time | 6.00s |
| Steering Angle | 33.50° |

| | | | |
|-----|-----------------|------------|----------|
| | | | |
| | | | |
| | | | |
| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

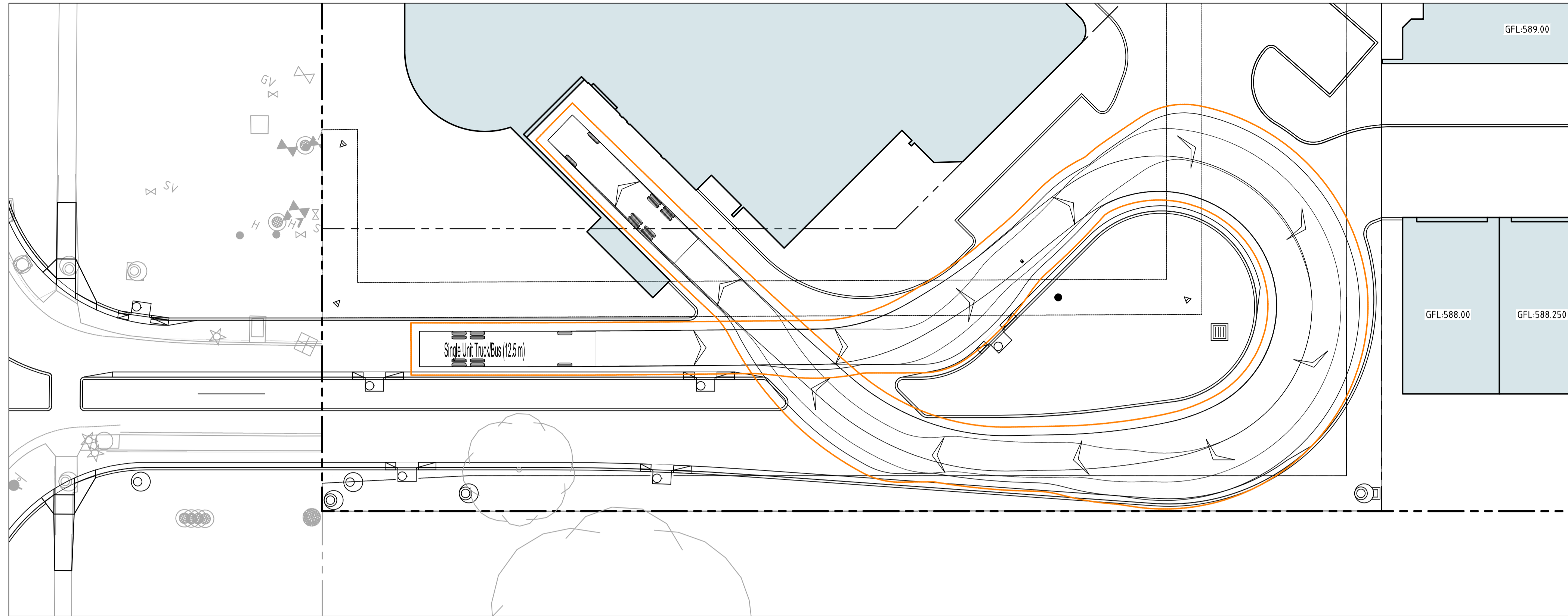
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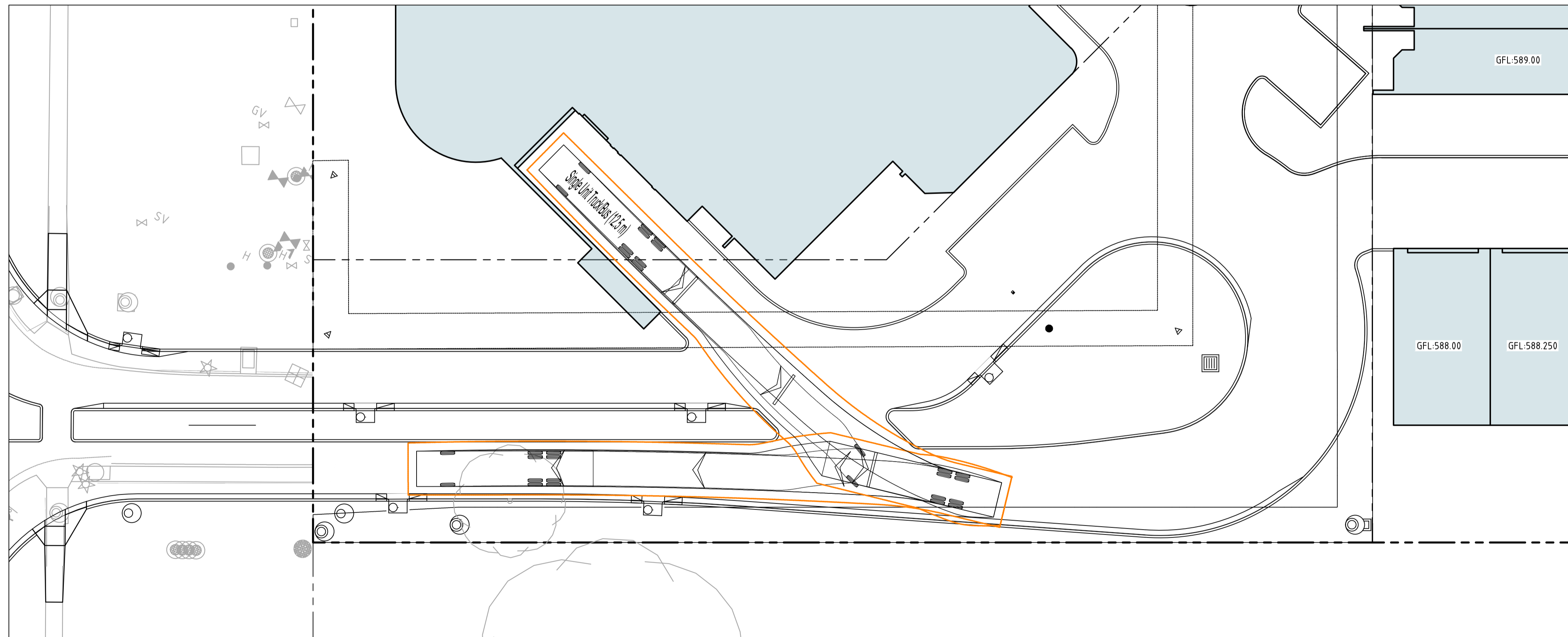
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|---------------------------------------|--------------|--------------------|------------|
| Status NOT FOR CONSTRUCTION | | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|---|------|------------|----------------|---------|-----|
| Project Name and Location RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title VEHICLE TURNING PATH | | | | | |
| PLAN SHEET 1 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | TP | 2101 | A |

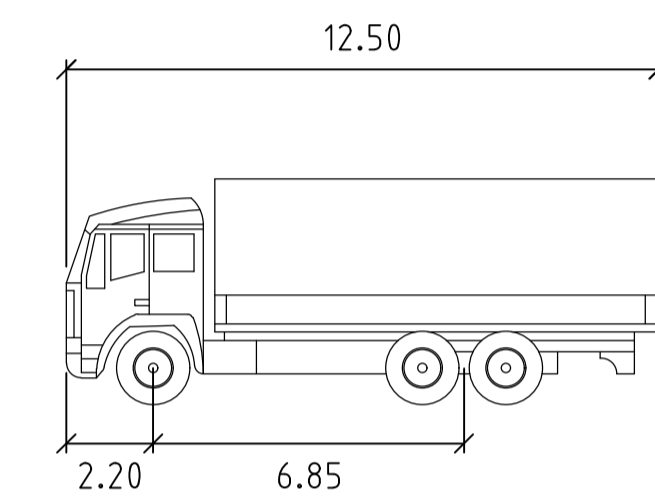
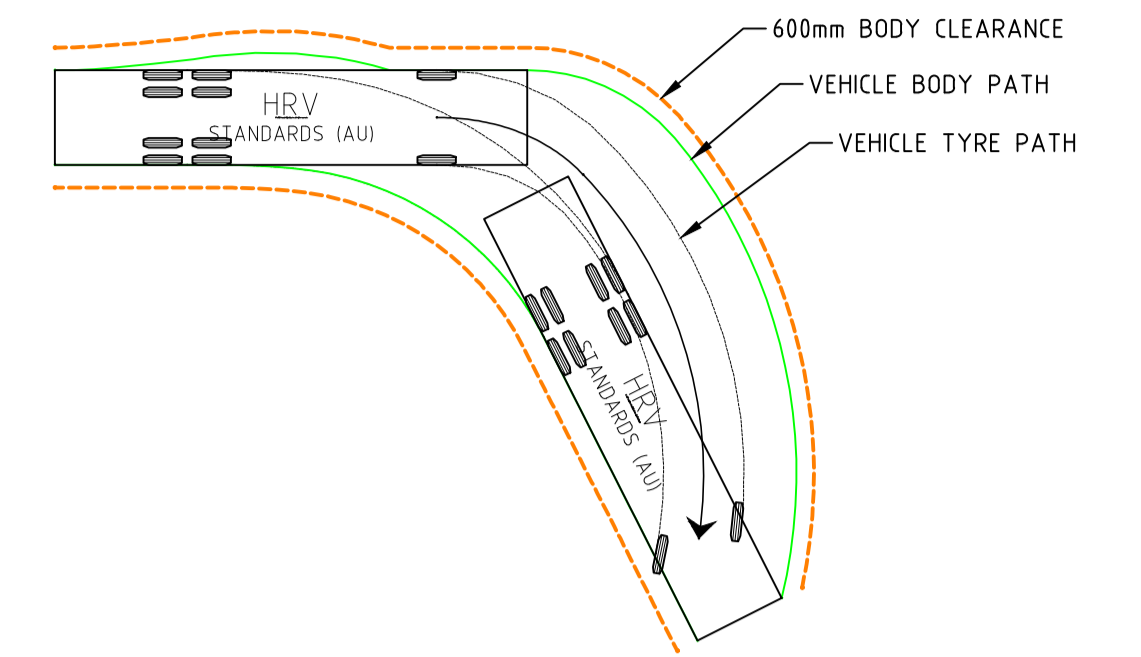
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HRV FORWARD INTO WASTE FOR FRONT COLLECTION
SCALE 1:200



HRV EXIT FROM SITE
SCALE 1:200



SINGLE UNIT TRUCK (HRV)

| | |
|-------------------|--------|
| Width | 2.50m |
| Track | 2.50m |
| Lock to Lock Time | 6.00s |
| Steering Angle | 33.50° |

| | | | |
|-----|-----------------|------------|----------|
| | | | |
| | | | |
| | | | |
| | | | |
| A | FOR INFORMATION | 20.12.2019 | AM |
| Rev | Description | Date | Approved |

Scales

North

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| | | | |
|-------------------|-----------------------------|--------------------|------------|
| Status | NOT FOR CONSTRUCTION | | |
| Original Size | A1 | Drawn By | RT |
| Date Plotted | 20-Dec-19 | Designed By | LT |
| Coordinate System | STROMLO GRID | Approved | BC |
| Height Datum | AHD | Drafting Check | DCA |
| | | Design Check | AM |
| | | Approved Date | 24.08.2018 |
| | | Approved Signature | |

| | | | | | |
|------------------------------|------|------------|----------------|---------|-----|
| Project Name and Location | | | | | |
| RESIDENTIAL DEVELOPMENT | | | | | |
| BLOCK 4 SECTION 38, CAMPBELL | | | | | |
| Drawing Title | | | | | |
| VEHICLE TURNING PATH | | | | | |
| PLAN SHEET 2 | | | | | |
| Project Number | Type | Discipline | Sub-Discipline | Drg No. | Rev |
| 180658 | DRG | CIV | TP | 2102 | A |