

RIVER VALLEY ESTATE

STAGE 7A

SUNSHINE NORTH

BRIMBANK CITY COUNCIL

FOR

ATLANTIC LINK PTY LTD



RIVER VALLEY

CIVIL DRAWINGS

ROAD AND DRAINAGE

DCE REF : 12050

CONSTRUCTION ISSUE



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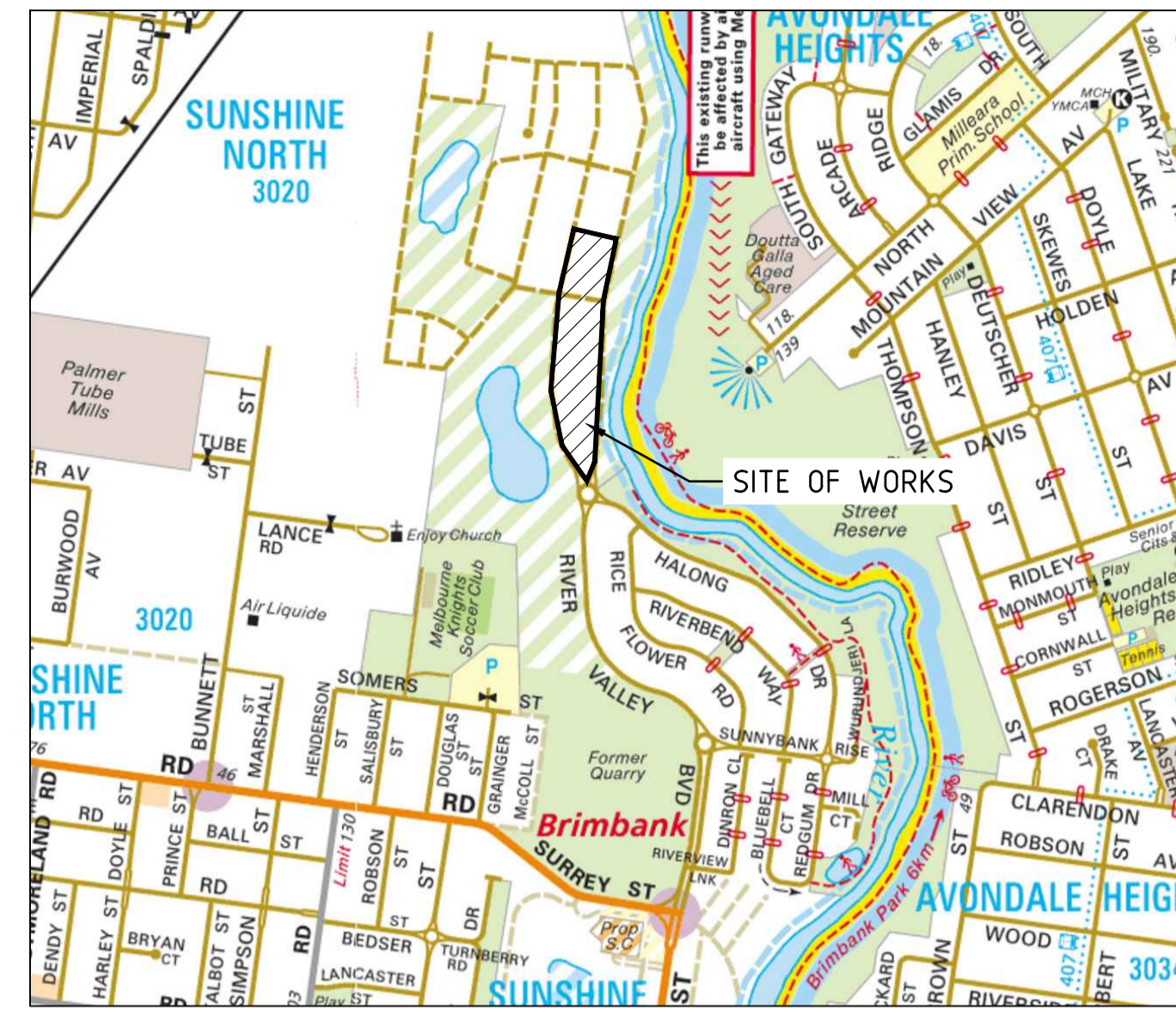
ABN 78 429 221 049

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GENERAL NOTES

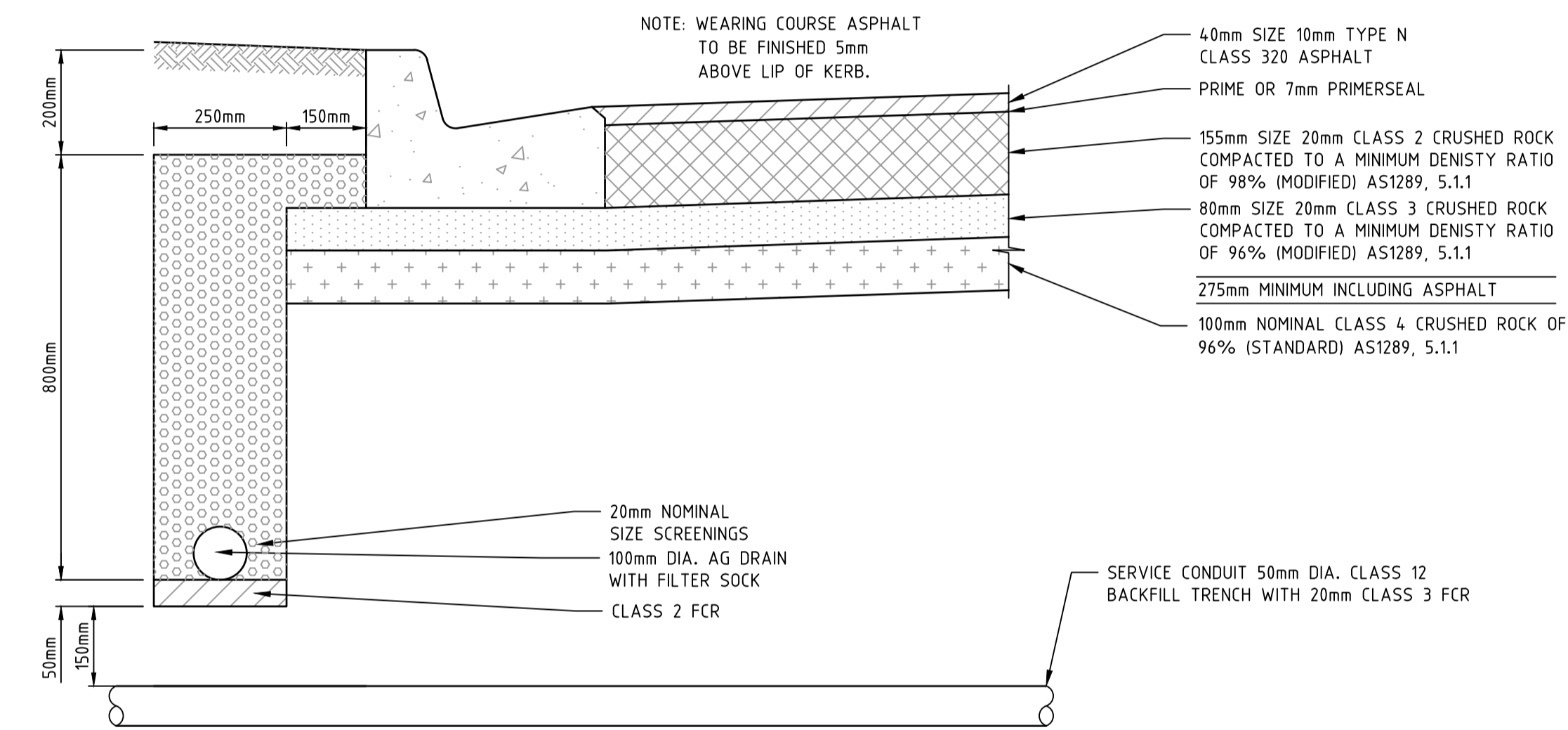
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CITY OF BRIMBANK STANDARD SPECIFICATION, ENGINEERING GUIDELINES AND SPECIFICATIONS FOR THE DESIGN & CONSTRUCTION OF ROADS & DRAINAGE WORKS, STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SURVEILLANCE COORDINATOR OR HIS REPRESENTATIVE.
- ALL TREES AND SHRUBS TO BE RETAINED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITY OR REMOVAL IS DIRECTED BY THE AUTHORISED ENGINEER.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED PRIOR TO THE COMMENCEMENT OF WORKS.
- COUNCIL'S SURVEILLANCE COORDINATOR MUST BE NOTIFIED IN WRITING, NO LESS THAN SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
- SUBMIT APPLICATION FOR TEMPORARY ACCESS TO SITE FOR APPROVAL BY COUNCIL'S SURVEILLANCE COORDINATOR BEFORE ANY COMMENCEMENT OF ANY WORKS COMMENCING.
- CONTRACTORS ARE RESPONSIBLE WITH RESPECT TO SAFETY OF WORK ON SITE AND APPROPRIATE LEGISLATION.
- FOOTPATHS ARE TO BE OFFSET 25MM FROM THE PROPERTY LINE AND CONSTRUCTED AS PER BRIMBANK STANDARD DRAWING 5350.
- VICROAD'S 'ROADWORK SIGNAGE CODE OF PRACTICE' WHICH COMPLIES WITH AUSTRALIAN STANDARDS 1742.3-1996 IS TO BE ADHERED TO DURING CONSTRUCTION WORKS.
- DRAINAGE PIPES ARE LOCATED WITHIN NATURE STRIPS, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED 20MM CLASS 3 CRUSHED ROCK UP TO A LEVEL WHERE THE 450G. INFLUENCE LINE FROM THE B.O.K. INTERSECTS WITH THE NEAREST TRENCH SIDE.
- ALL CONCRETE DRAIN PIPES TO BE CLASS 2 SPIGOT & SOCKET WITH RUBBER RING UNLESS OTHERWISE SPECIFIED.
- CCTV AND LASER PROFILING OF COMPLETED DRAINS SHALL BE UNDERTAKEN BY THE CONTRACTOR AS PER WSA 05-2008 VER.2.2 AND SUBMIT TO COUNCIL PRIOR TO PRACTICAL COMPLETION OR STATEMENT OF COMPLIANCE WHICHEVER IS EARLIER.
- SERVICE CONDUITS ARE TO BE PROVIDED UNDER FOOTPATHS EXTENDING INTO ALLOTMENTS - LOCATION TO BE MARKED ON THE FOOTPATH AND KERB.
- AG DRAINS TO BE PROVIDED BEHIND ALL KERBS AT INTERFACE OF EXISTING AND NEW PAVEMENT AND SHOULD HAVE SUITABLE OUTLET. REFER TO COUNCIL'S STANDARD DRAWING S110 FOR BACKFILL MATERIAL ETC. SOME WORKS MAY REQUIRE SPECIAL CONSIDERATION EG. VICROADS STANDARDS.
- CONDUITS ARE TO BE CLEARLY MARKED ON THE KERB AND FOOTPATH FOR EASY IDENTIFICATION.
- ALL SERVICING TRENCHES UNDER ROAD CARRIAGEWAYS, FOOTPATHS, VEHICLE CROSSINGS AND OTHER STRUCTURES ARE TO BE BACKFILLED WITH 20MM CLASS 3 CRUSHED ROCK IN ACCORDANCE WITH SECTION 706 OF COUNCIL'S STANDARD SPECIFICATION FOR ROADS AND DRAINAGE WORKS IN LAND DEVELOPMENT.
- SERVICES TO BE INSTALLED PRIOR TO KERB AND CHANNEL.
- TMP TO BE SUBMITTED TO COUNCIL'S SURVEILLANCE AND/OR TRAFFIC & TRANSPORT SECTION 7 DAYS PRIOR TO COMMENCEMENT OF WORKS FOR ACCEPTANCE.
- STREET LIGHTING SHALL BE LED 18W FOR STANDARD FITTING AND LED 16W TOORAK/TOORAK ALPHA FOR DECORATIVE NON-STANDARD FITTING.
- THE DRAWINGS, "MUST NOT BE SCALED/MEASURED" FROM HARD OR DIGITAL COPIES.
- MINIMUM EARTHWORKS FILLING REQUIREMENTS FOR ALL ROAD WORKS:
 - ROAD FILLING WORKS SHALL BE IN ACCORDANCE WITH SECTION 204 OF COUNCIL'S STANDARD SPECIFICATION FOR ROADS AND DRAINAGE WORKS IN LAND DEVELOPMENT.
 - TYPE A FILL IS REQUIRED FOR THE LAST 200MM LAYER UNDER ROAD PAVEMENTS, FOOTPATHS, VEHICLE CROSSINGS, NATURE STRIPS AND OTHER ROAD STRUCTURES.
 - TYPE A MATERIAL IS SPECIFIED IN SECTION 204 OF COUNCIL'S STANDARD SPECIFICATION FOR ROADS AND DRAINAGE WORKS IN LAND DEVELOPMENTS TO BE 3% CBR, MAXIMUM SWELL OF 2.5%, MAXIMUM PERMEABILITY OF 5 X 10-7 CM/SEC AND MAXIMUM BOULDER SIZE IS 75MM ROCK WITH NO OTHER GRADING REQUIREMENTS.
 - NATURE STRIP WIDTHS SHALL BE FINISHED OFF WITH 100MM THICK TOP SOIL MATERIAL RECOVERED FROM STRIPPING PRIOR TO THE CONSTRUCTION OF EARTHWORKS OR OTHER IMPORTED TOPSOIL TO COMPLY WITH COUNCIL'S LANDSCAPE REQUIREMENTS.
- FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER, AND NEAR-VERTICAL BASALT FACES SHALL BE LOOSENED OR FLATTENED.
- FILL MATERIAL TO BE IMPORTED TO SITE WILL BE SUBJECT TO THE FOLLOWING CONTROLS:
 - BORROW MATERIAL FOR FILLING WORKS IS TO BE SIGNED OFF BY A SUITABLY QUALIFIED INDEPENDENT ENVIRONMENTAL SCIENTIST TO BE CLEAN FILL TO MEET EPA DEFINITION. THE SCIENTIST MUST BE RECOGNISED BY THE EPA TO UNDERTAKE SUCH A JOB.
 - THE INDEPENDENT ENVIRONMENTAL SCIENTIST IS TO CERTIFY THAT THE SOURCE OF SOURCES TO BORROW MATERIAL TO MEET THE EPA DEFINITION OF CLEAN FILL SUITABLE FOR ROAD CONSTRUCTION. THE SCIENTIST IS TO OVERSEE ALL TESTINGS, FREQUENCY OF TESTINGS ETC. TO MEET EPA REQUIREMENTS FOR CLEAN FILL.
 - THE SCIENTIST IS TO ENSURE THAT ONLY THE CERTIFIED CLEAN FILL MATERIAL IS USED. TRANSPORTATION DOCKETS ARE TO BE ISSUED FOR EACH TRUCK LOAD, DATE AND TIME OF LOADING AND ARRIVAL ON SITE ARE TO BE RECORDED.
 - AT THE END OF BORROW FILLING, A REPORT IS TO BE SUBMITTED TO COUNCIL BY THE INDEPENDENT SCIENTIST DETAILING THE TESTINGS CARRIED OUT LEADING TO THE APPROVAL OF THE SOURCE OR SOURCES.
 - THE REPORT IS ALSO TO INCLUDE COPIES OF ALL THE TRANSPORTATION DOCKETS AND SUMMARY OF THE REQUIRED BORROW VOLUME.
 - IN THE REPORT, THE SCIENTIST IS TO SIGN OFF THE COMPLETED BORROW FILL WORKS FOR EPA REQUIREMENTS FOR CLEAN FILL WORKS.
 - BORROW MATERIAL FILLING WORKS IS TO BE SIGNED OFF BY A SUITABLY QUALIFIED INDEPENDENT (NATA REGISTERED COMPANY) GEOTECHNICAL ENGINEER TO BE TYPE B FILL TO MEET BCC SPECIFICATIONS FOR TYPE B FILL MATERIAL.
 - THE GEOTECHNICAL ENGINEER IS TO APPROVE THE SOURCE OR SOURCES OF THE BORROW MATERIAL THAT MEETS TYPE B FILL (INCLUDING MINIMUM 2% CBR)
 - THE GEOTECHNICAL ENGINEER IS TO CARRY OUT ALL THE TESTING AT THE SITE OR SOURCE(S) AS REQUIRED IN SECTION 204.
 - THE ENGINEER IS TO ENSURE THAT ONLY THE CERTIFIED TYPE B FILL MATERIAL IS USED. TRANSPORTATION DOCKETS ARE TO BE ISSUED FOR EACH TRUCK LOAD, DATE AND TIME OF LOADING AND ARRIVAL ON SITE ARE TO BE RECORDED.
 - AT THE COMPLETION OF THE FILLING WORKS, THE ENGINEER IS TO SUBMIT A SEPARATE REPORT TO COUNCIL TO VERIFY ALL BORROW MATERIAL FILLING WORKS MEET THE TYPE B SPECIFICATION.
 - IN THE REPORT, THE GEOTECHNICAL ENGINEER IS TO SIGN OFF THE COMPLETED BORROW FILL WORKS THAT MEET TYPE B SPECIFICATIONS.
 - PRIOR TO THE COMMENCEMENT OF THE BORROW MATERIAL FILLING, BOTH THE SCIENTIST AND THE GEOTECHNICAL ENGINEER ARE TO INFORM COUNCIL SURVEILLANCE OF THE APPROVED SOURCE OR SOURCES OF BORROW MATERIAL AND SUBMIT TESTING RESULTS VERIFYING THE ACCEPTANCE OF THE MATERIAL.
- EARTHWORKS & SEDIMENTATION CONTROL**
 - NO POLLUTED OR SEDIMENT LADEN RUNOFF IS TO BE DISCHARGED DIRECTLY OR INDIRECTLY INTO EXISTING DRAINAGE SYSTEM DURING OR AFTER THE WORKS.
 - CONTRACTOR TO PREPARE A SITE MANAGEMENT PLAN (SMP) AND FORWARD TO THE CONSULTANT 3 WEEKS PRIOR TO COMMENCING OF ANY WORKS. SMP IS TO BE PREPARED IN ACCORDANCE WITH THE MELBOURNE WATER CORPORATION SMP KIT PLAN SUBJECT TO BRIMBANK CITY COUNCIL AND MELBOURNE WATER APPROVAL.

- COMPACTION TESTING OF FILLED AREAS TO COMPLY WITH AS3798-1996 APPENDIX B, LEVEL 1 AND GEOTECHNICAL REPORT AND SHALL BE ARRANGED BY THE CONTRACTOR WITH THE CERTIFYING CONSULTANT AT THE CONTRACTORS EXPENSE.
 - FILLING DEPTHS IN EXCESS OF 200mm ARE TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL SURFACE LEVELS SHOWN ON THE DRAWINGS.
 - STOCKPILING OF MATERIAL IS TO BE PLACED AS DIRECTED BY THE SUPERINTENDENT. NO TOPSOIL IS TO BE REMOVED FROM SITE.
 - DISTURBED AREAS WITHIN DESIGNATED GRASSED FLOODWAY ZONES MUST BE TOPSOILED AND HYDROMULCH SEEDED WITH APPROVED GRASSES AND FERTILIZER. TEMPORARY FENCING MUST BE ERECTED TO PREVENT ACCESS TO TREATED AREAS.
- REQUIREMENTS PRIOR TO COMMENCEMENT OF WORKS:**
- AN ENVIRONMENTAL MANAGEMENT PLAN MUST BE SUBMITTED AND APPROVED BY BCC ENVIRONMENTAL TEAM AS PER PLANNING PERMIT CONDITION (PPC) No. 5 & 37.
 - AN ENVIRONMENTAL SITE ASSESSMENT REPORT MUST BE SUBMITTED AND APPROVED BY BCC ENVIRONMENTAL TEAM AS PER PPC No. 5 AND AUDIT REPORT PPC No.6
 - PRIOR TO THE REMOVAL OF ANY NATIVE VEGETATION, CLEARANCE MUST BE OBTAINED FROM THE BCC ENVIRONMENTAL TEAM AS PER PPC No. 81-84
 - A CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN MUST BE SUBMITTED TO AND APPROVED BY THE BCC ENVIRONMENTAL AND SURVEILLANCE TEAMS AS PER PPC No. 85
 - ASSET PROTECTION PERMIT MUST BE OBTAINED FROM BCC ENGINEERING DEPARTMENT
- ABORIGINAL PROTECTION REQUIREMENT MUST BE ADHERED TO AS PER PPC No. 11 & 12**
- REQUIREMENTS DURING AND/OR AFTER CONSTRUCTION STAGES OF WORKS:
- A LANDSCAPE MASTER PLAN FOR THE STREETS WITHIN ALL ROAD RESERVES AND INCLUDING GRASSING OF NATURESTRIPS MUST BE SUBMITTED TO BCC URBAN DESIGN TEAM PRIOR TO PLAN OF SUBDIVISION IS CERTIFIED AS PER PPC No. 14
 - AN APPROVED FORM OF BARRIER TO BE INSTALLED AT SECTIONS OF ROAD RESERVATIONS WHERE ACCESS IS NOT PERMITTED ONTO CYCLISTS AS PER PPC No. 26
 - PROVIDE ROAD SAFETY AUDIT (RSA) AFTER CONSTRUCTION AS PER PPC No. 26.
 - SILT BARRIERS TO BE PROVIDED AS PER PPC No. 43

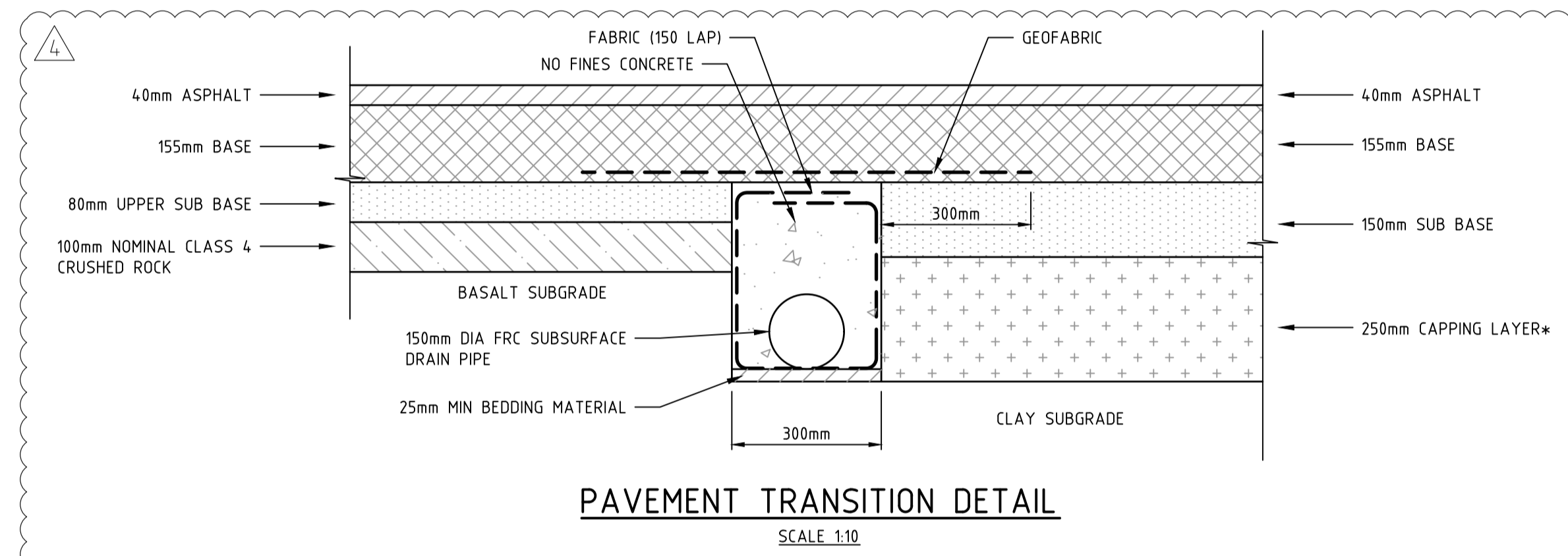


LOCALITY PLAN
MELWAY REF MAP: 27 B5
NTS

DRAWING INDEX		
SHEET NO.	DRAWING NO.	DESCRIPTION
01	12050TD01	LOCALITY PLAN, INDEX, TYPICAL DETAILS AND NOTES
02	12050TD02	TYPICAL DETAILS
03	12050TD03	TYPICAL SECTIONS
04	12050SP01	STAGING PLAN
05-06	12050DP01-02	DETAIL PLAN, SHEETS 01 TO 02
07-09	12050ID01-03	INTERSECTION DETAILS, SHEETS 01 TO 03
10-12	12050SP01-03	SET OUT DETAILS, SHEETS 01 TO 03
13-14	12050LM01-02	SIGNAGE AND LINEMARKING PLAN, SHEETS 01 TO 02
15-19	12050LS01-05	LONGITUDINAL SECTIONS, SHEETS 01 TO 05
20-39	12050XS01-20	RIVERVALLEY BOULEVARD CROSS SECTIONS, SHEETS 01 TO 20
40-54	12050XS21-35	PERENNIAL DRIVE CROSS SECTIONS, SHEETS 01 TO 15
55-59	12050DR01-05	DRAINAGE LONGITUDINAL SECTIONS, SHEETS 01 TO 05
60	12050DR06	DRAINAGE OUTFALL DETAILS
61	12050DR07	DRAINAGE HABITAT BOX CULVERT DETAILS
62-65	12050PD01-04	DRAINAGE PIT DETAILS, SHEETS 01 TO 04
66-80	12050SS01-15	SITE SECTIONS, SHEETS 01 TO 15
81-82	12050RW01-02	RETAINING WALL PLAN, SHEETS 01 TO 02
83-85	12050RW01-03	RETAINING WALL SECTIONS, SHEETS 01 TO 03
86	12050EW01	BULK EARTHWORKS PLAN
87-89	12050POS01-03	PLAN OF SUBDIVISION, SHEETS 01 TO 03
90	12050FP01	FILL PLAN
91-92	12050EF01-02	EXISTING FEATURES PLAN, SHEETS 01 TO 02

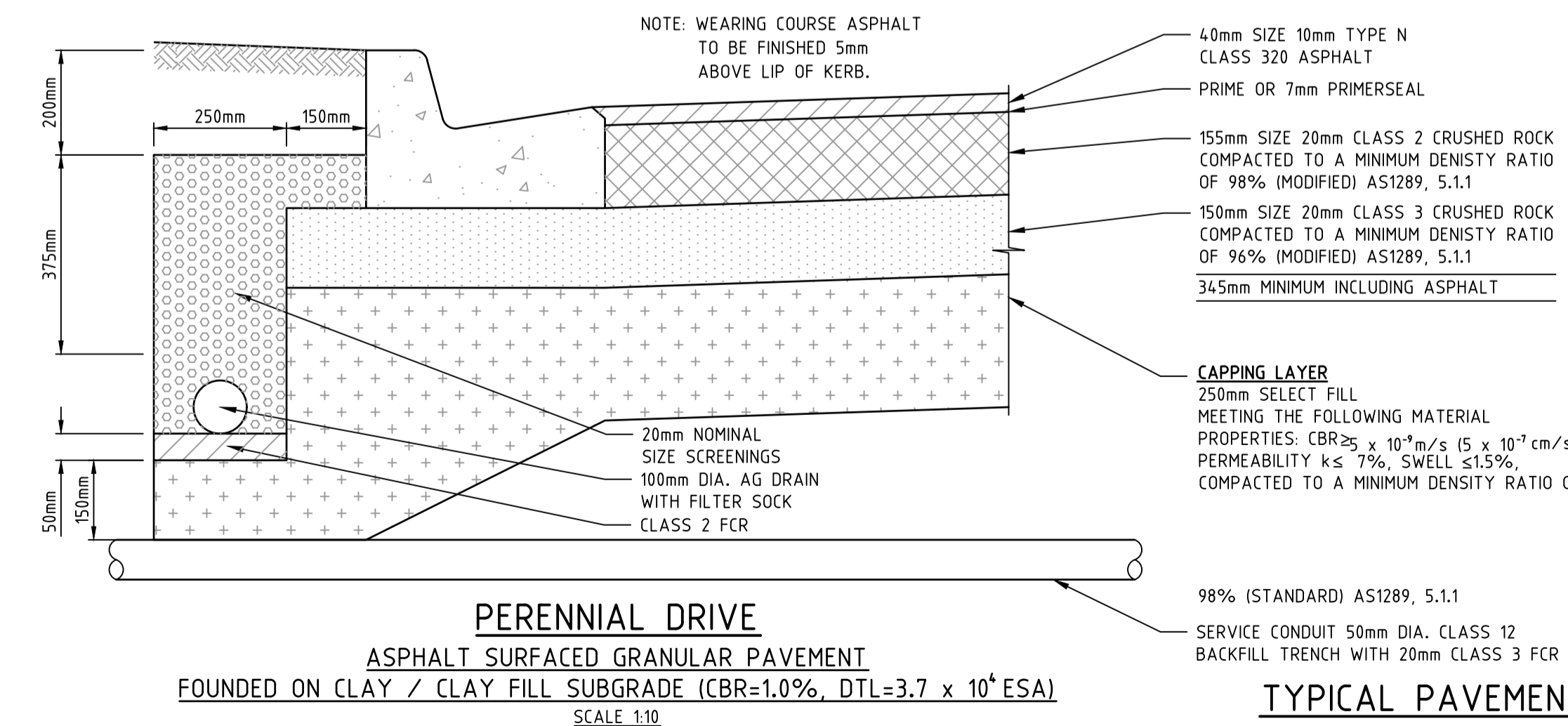


NOTE:
PAVEMENT DETAILS IN ACCORDANCE WITH GEOTECHNICAL REPORT PREPARED BY TONKIN & TAYLOR, JOB NUMBER 4694.000.R2.VC, DATED AUGUST 2017.

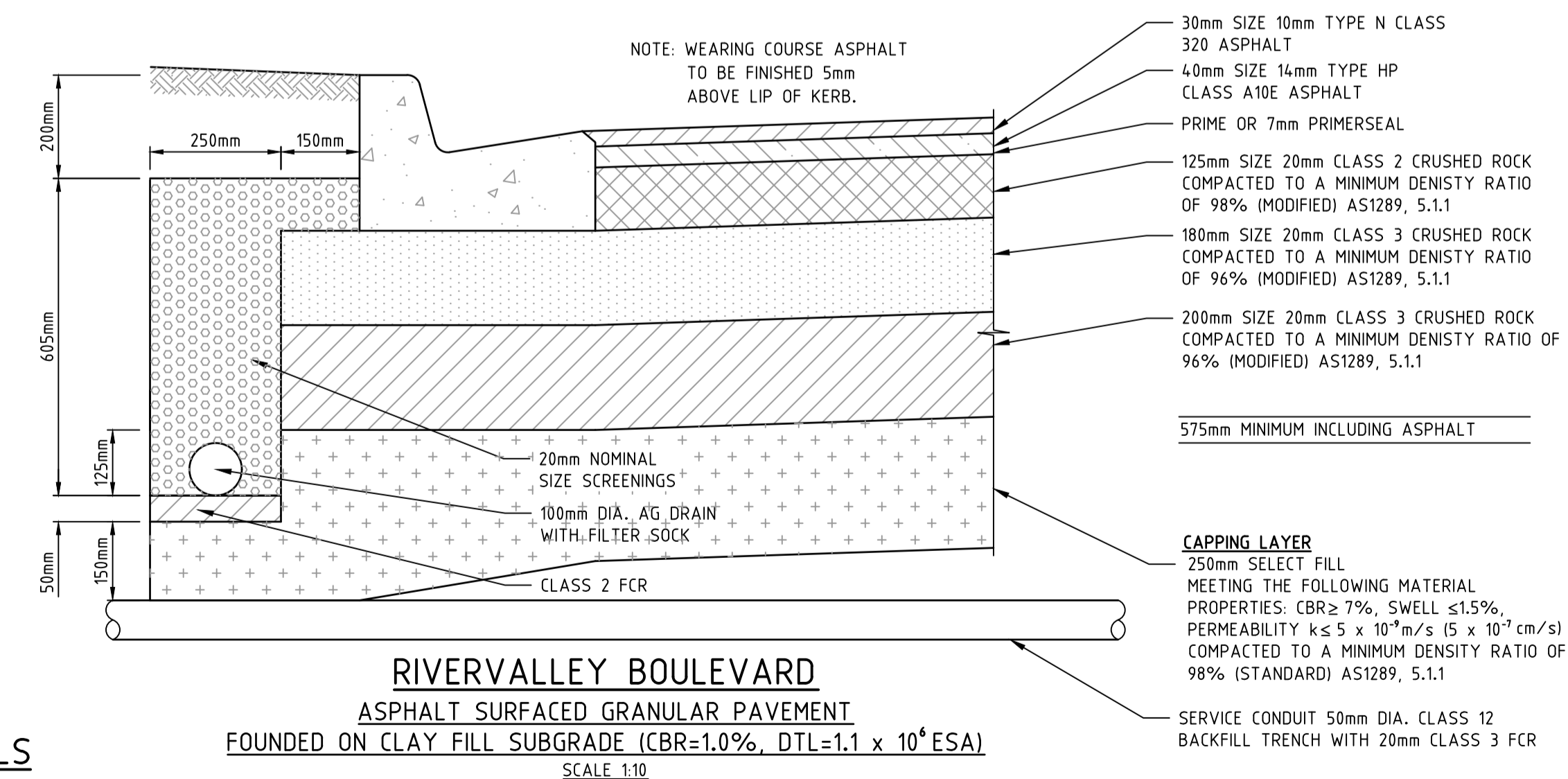


NOTE:
T&T GEOTECHNICAL ENGINEER TO BE NOTIFIED FOR INSPECTION AND ADVICE ON PAVEMENT WHEN BASALT ROCK LAYER OR BOULDER IS ENCOUNTERED AT THE SUBGRADE

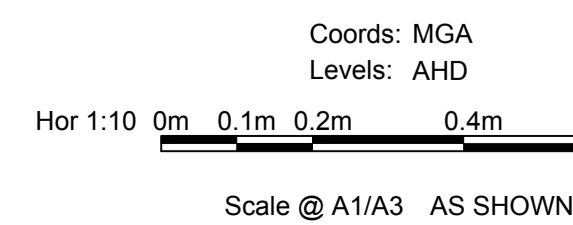
NOTE:
* AN ADDITIONAL 350MM THICK TYPE 2 FILL WILL BE REQUIRED IF FORMATION INTERCEPTS FILL



TYPICAL PAVEMENT DETAILS



RIVERVALLEY BOULEVARD
ASPHALT SURFACED GRANULAR PAVEMENT
FOUNDED ON CLAY FILL SUBGRADE (CBR=1.0%, DTL=1.1 x 10⁴ ESA)
SCALE 1:10



Scale @ A1/A3 AS SHOWN



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
LOCALITY PLAN, INDEX, TYPICAL DETAILS
AND NOTES
Drawing No. 12050TD01 Rev 4



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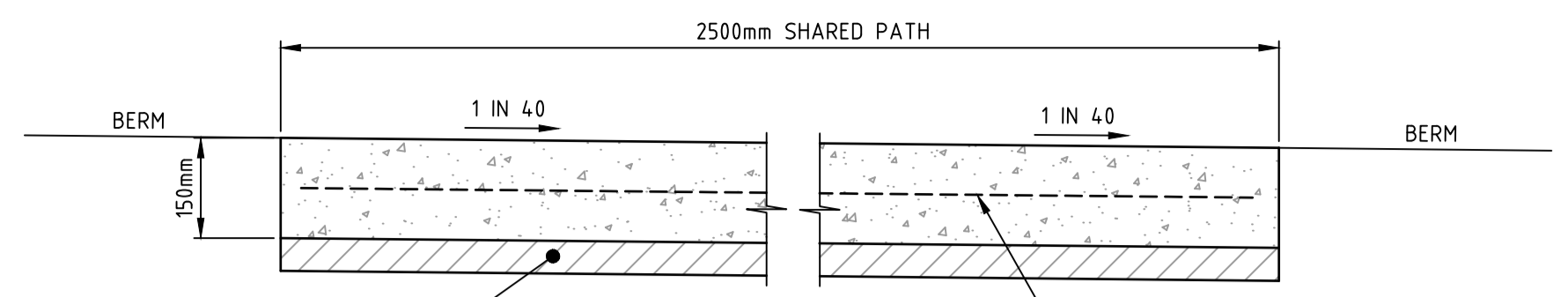
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REV	AMENDMENTS	DATE	APP'D.
4	GEOFABRIC LAYER ADDED TO PAVEMENT TRANSITION DETAIL	07/06/18	TL
3	PAVEMENT TRANSITION DETAIL AMENDED	04/06/18	TL
2	PAVEMENT DETAILS ADDED	09/05/18	TL
1	COUNCIL COMMENTS	26/10/17	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

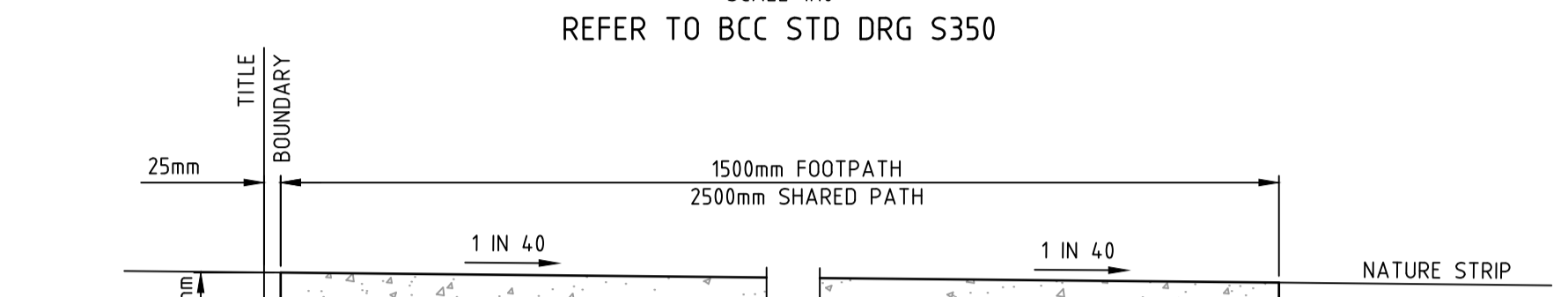
Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
AN 1631370
Verified T.THAVENDRAN
Date 20/07/17
AN 943516
Audited R. MASON
Date 17/08/17
AN 704969
Approved T.LIAKOPOULOS
Date 04/09/17
AN 888081

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

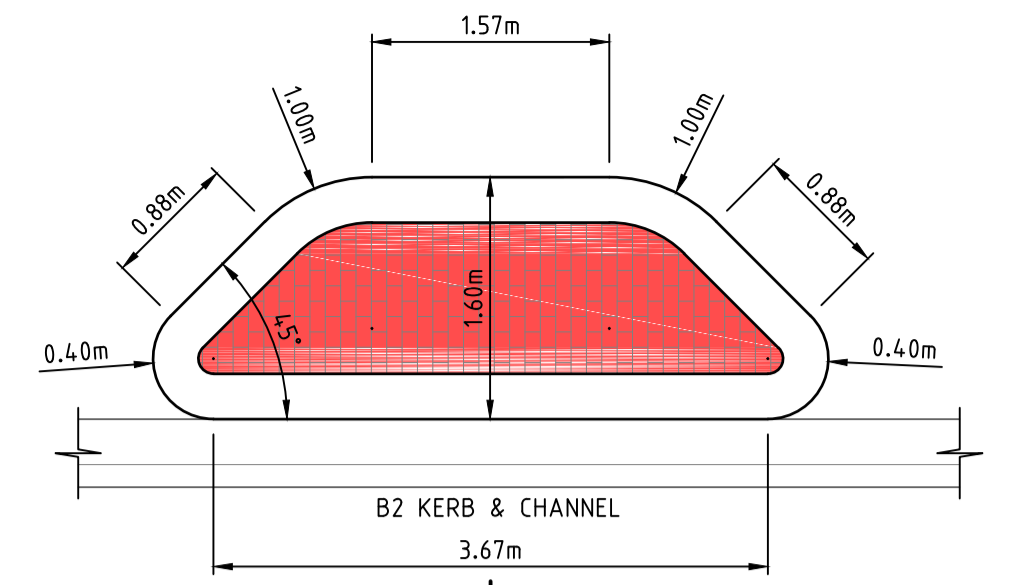
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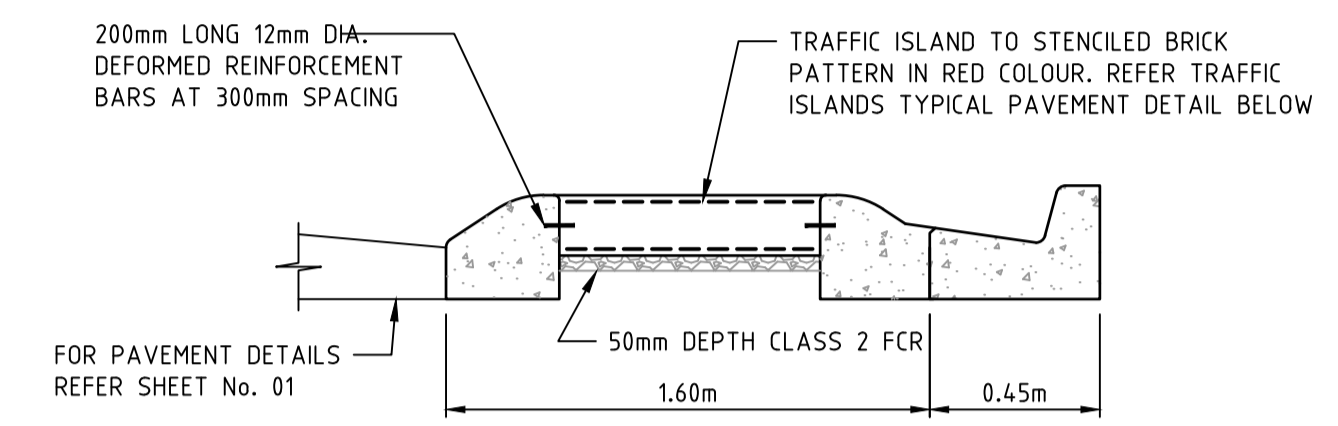
TYPICAL SECTION SHARED PATH (RESERVE)
SCALE 1:10
REFER TO BCC STD DRG S350



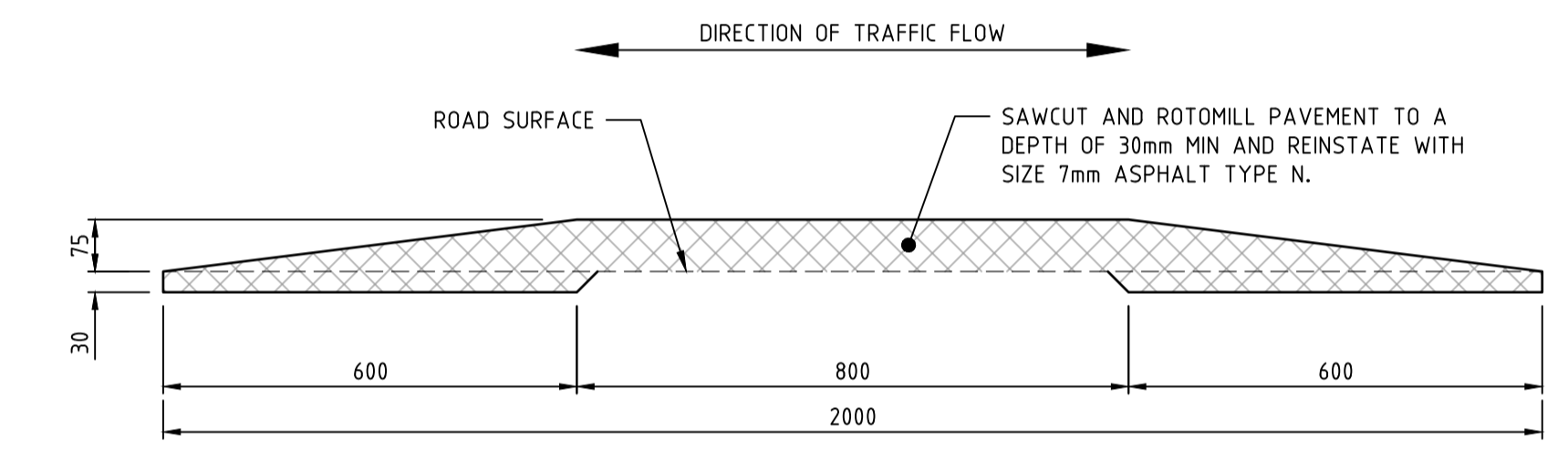
TYPICAL SECTION FOOTPATH/SHARED PATH
SCALE 1:10
REFER TO BCC STD DRG S350



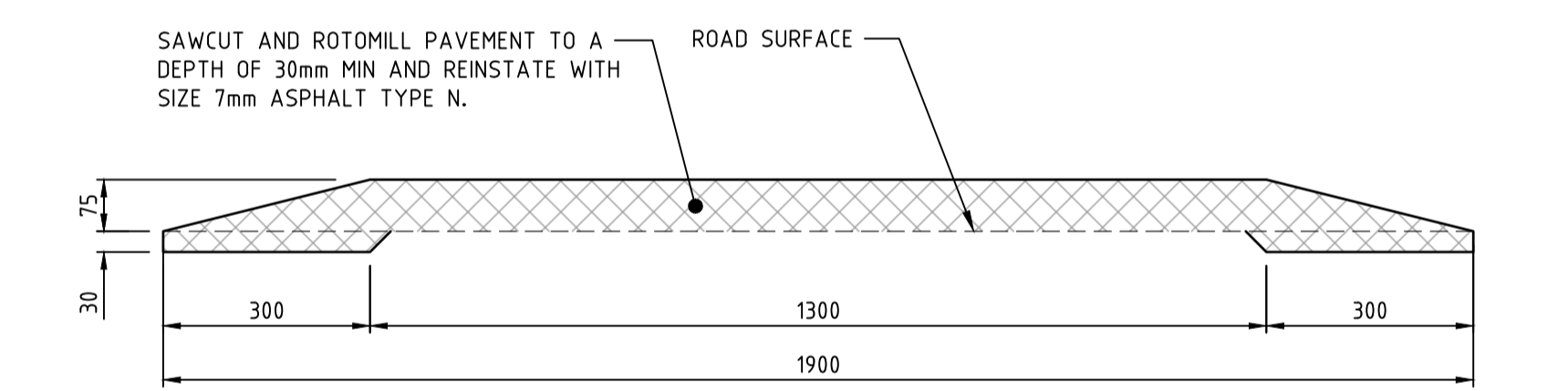
TRAFFIC ISLAND SETOUT
SCALE 1:50



DETAIL 1
SCALE 1:25

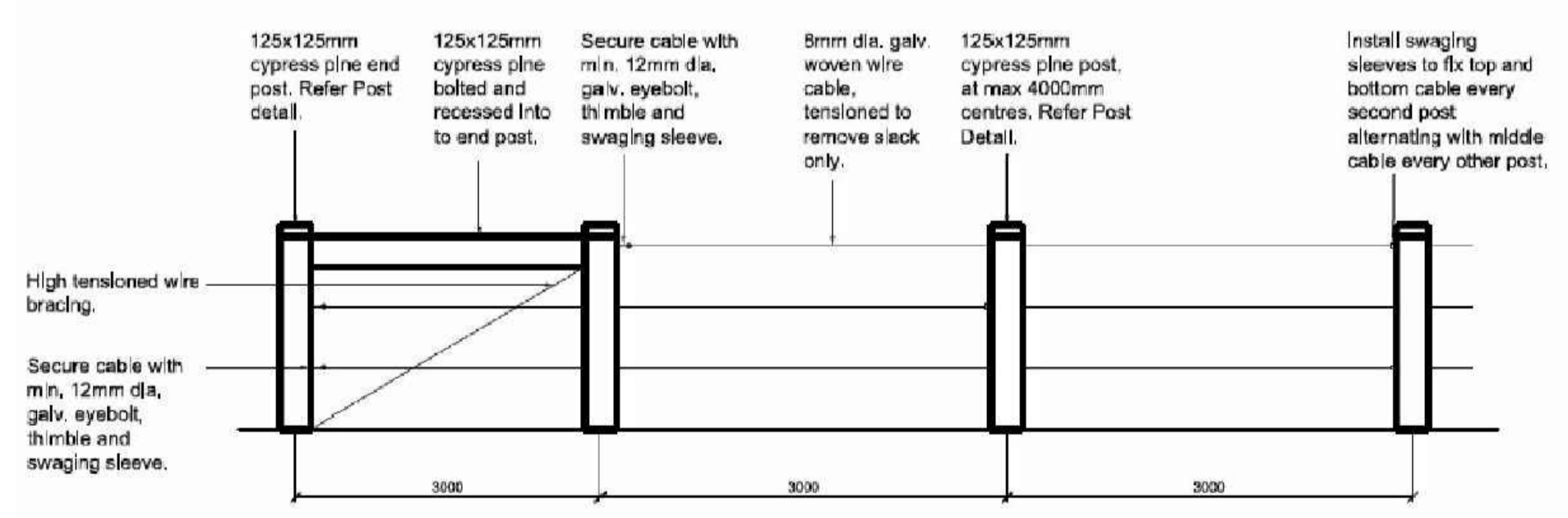


TYPICAL ASPHALT SPEED CUSHION DETAIL B-B
SCALE 1:10



TYPICAL ASPHALT SPEED CUSHION DETAIL A-A
SCALE 1:10

NOTE:
COLOURED ASPHALT IS TO BE RED WITH 1% RED IRON OXIDE WITH RED GRAVEL MIX. RED GRAVEL MIX MAY BE OBTAINED FROM ASPHALT TECH PH 9303-7833



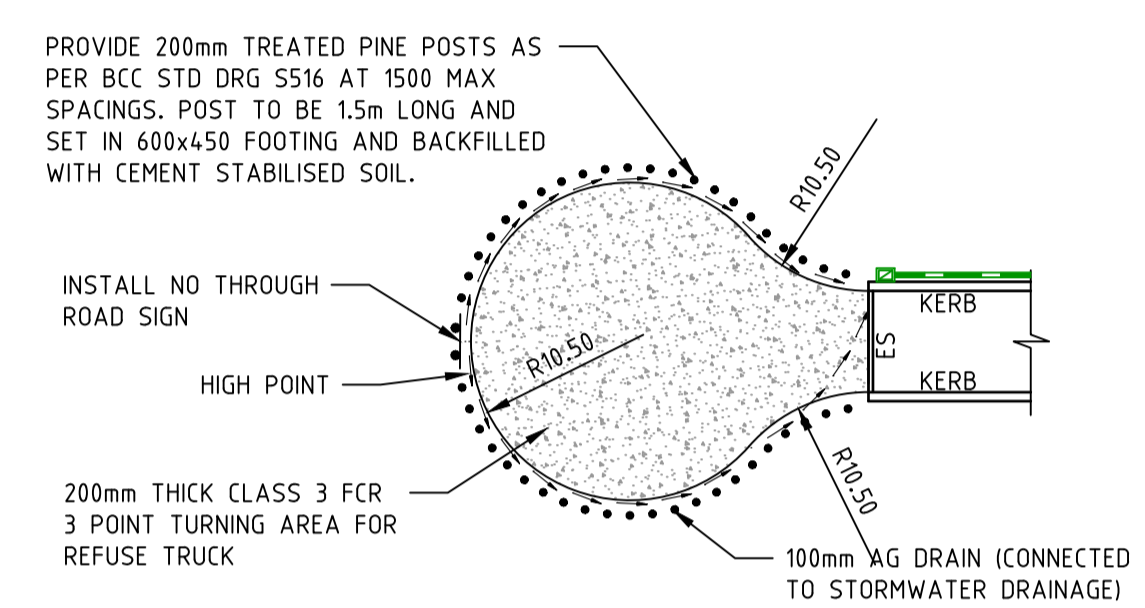
TIMBER POST AND WIRE FENCE DETAIL
NTS

200mm THICK CONCRETE, 32MPa
2 LAYERS OF SL82 (TOP & BOTTOM)
ON 100mm OF CLASS 2 FCR.
BURNT ORANGE FAUX BRICK STENCIL
FINISH DOWELLED TO M4 KERBS WITH
450mm LONG Y BARS @ 300 CTS.

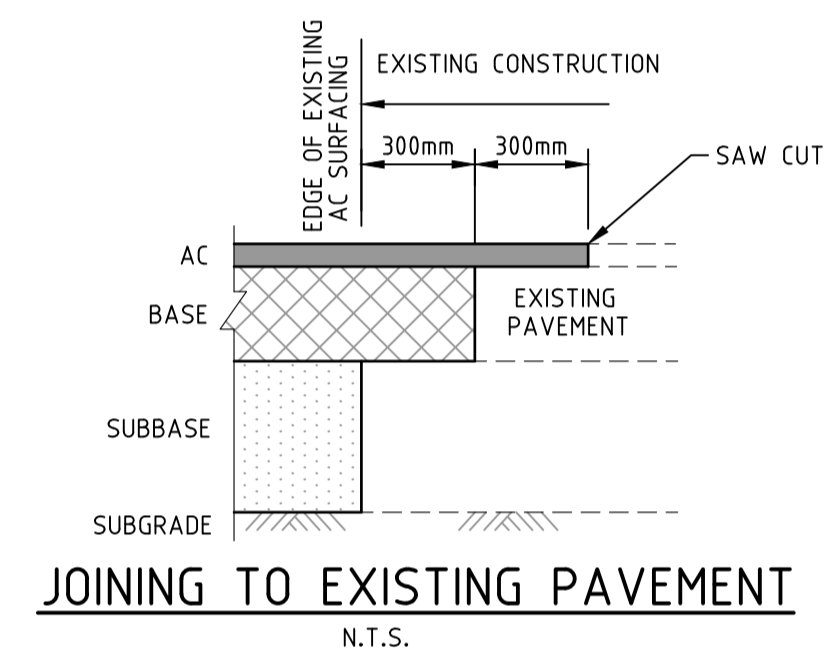
TRAFFIC ISLANDS TYPICAL PAVEMENT
NTS

200mm THICK CONCRETE, 32MPa
2 LAYERS OF SL82 (TOP & BOTTOM)
ON 100mm OF CLASS 2 FCR.

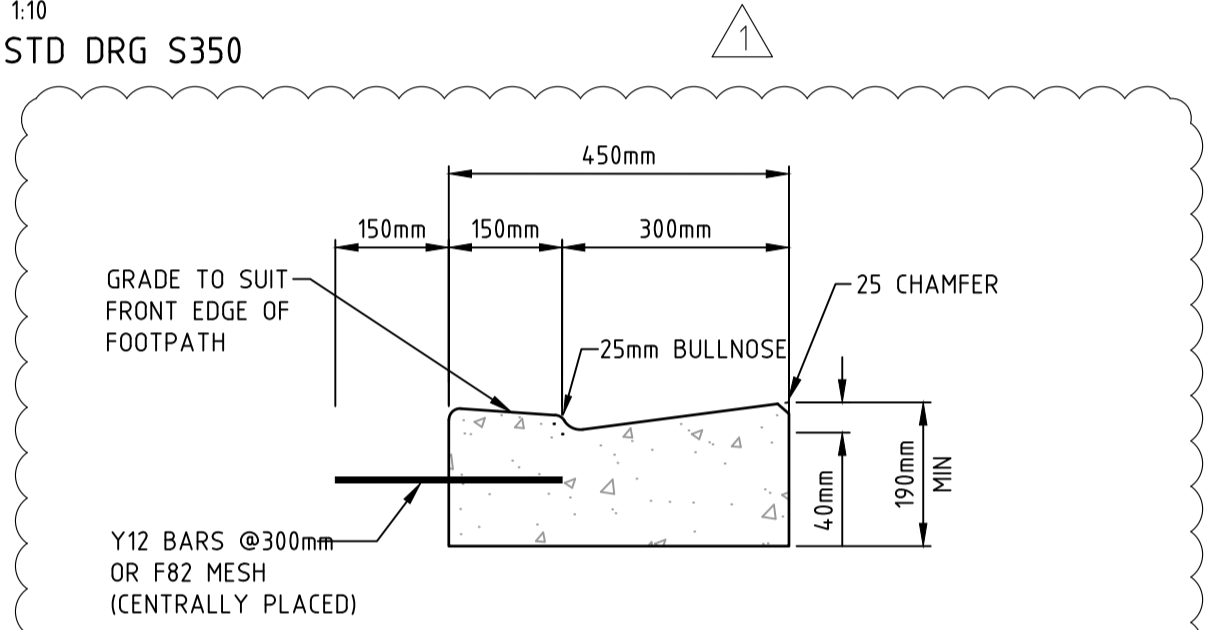
HARDSTAND TYPICAL PAVEMENT
NTS



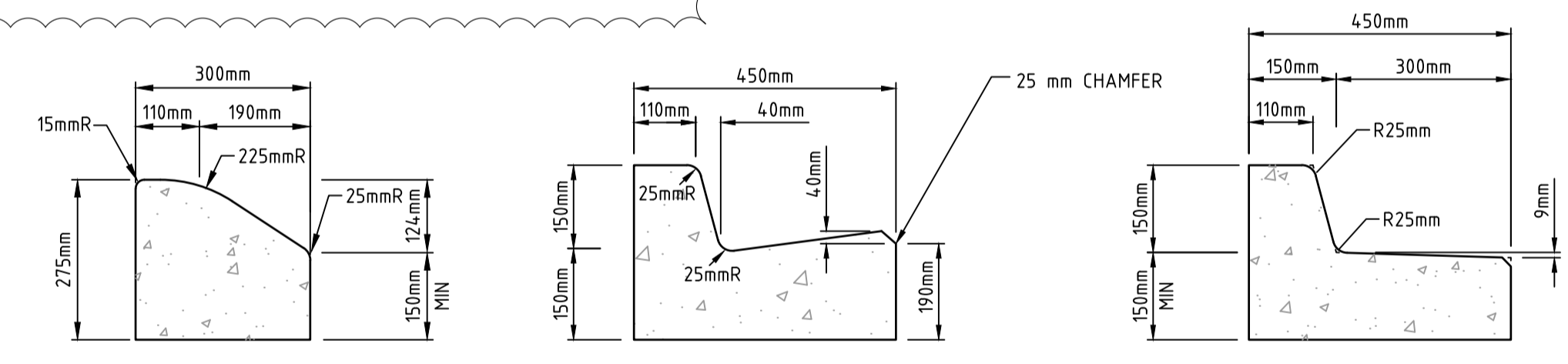
TEMPORARY END ROAD DETAIL
SCALE 1:500



JOINING TO EXISTING PAVEMENT
N.T.S.



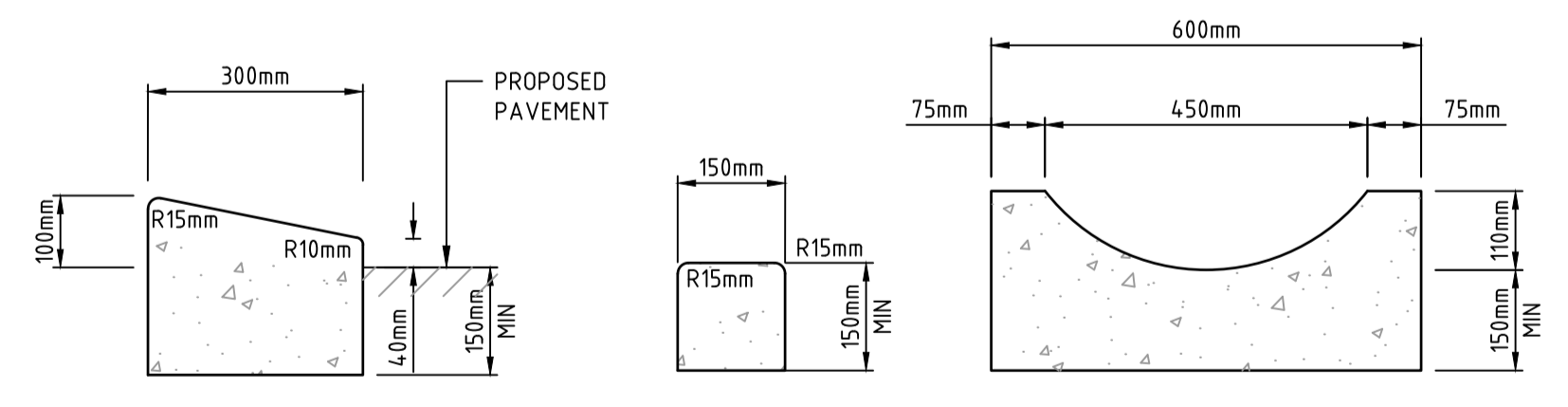
LAYBACK SECTION FOR BARRIER KERB
SCALE 1:10
REFER BCC S310



SM1 KERB
SCALE 1:10
REFER BCC S300

B2 - BARRIER KERB & CHANNEL
SCALE 1:10
REFER BCC S300

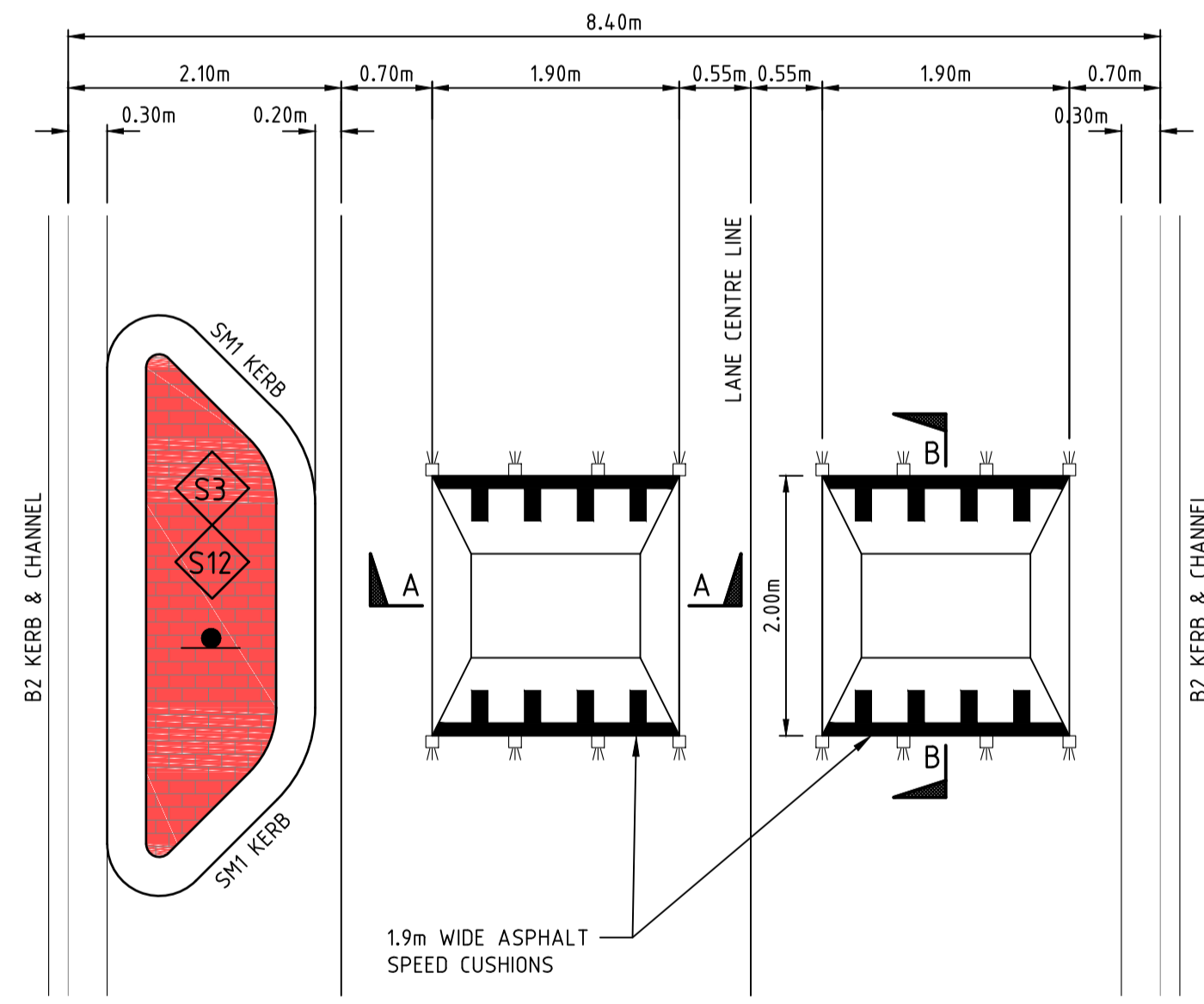
B3 KERB & CHANNEL
SCALE 1:10
REFER BCC S300



M4 KERB
SCALE 1:10
REFER BCC S300

EDGE STRIP
SCALE 1:10
REFER BCC S300

CD2 CHANNEL
SCALE 1:10
REFER VICROADS SD2103



2 SPEED CUSHION (ASPHALT) RIVERVALLEY BOULEVARD
SCALE 1:50

NOTE:
SIGN 'S3' REFERS TO A W5-10A (CLASS 1) SIGN WITH A SUPPLEMENTARY W8-2A 20 Km/h (CLASS 1). SIGN 'S12' REFERS TO A D4-1-2A UNI-DIRECTIONAL HAZARD MARKER SIGN. REFER TO SHEETS 13-14 FOR SIGNAGE AND LINEMARKING PLANS

Drawing File: C:\Users\jburns\OneDrive - Stage 7A\Documents\12050-TD02-Construction\12050-TD02-Construction.dwg
Drawing Title: Pavement Details Added
Date/Time: Fri Jul 27, 2018 - 6:12pm - jacob.burns

1	PAVEMENT DETAILS ADDED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS	DATE	APPD.

Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
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Verified T.THAVENDRAN
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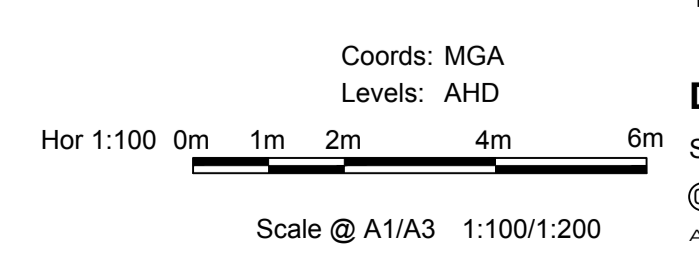
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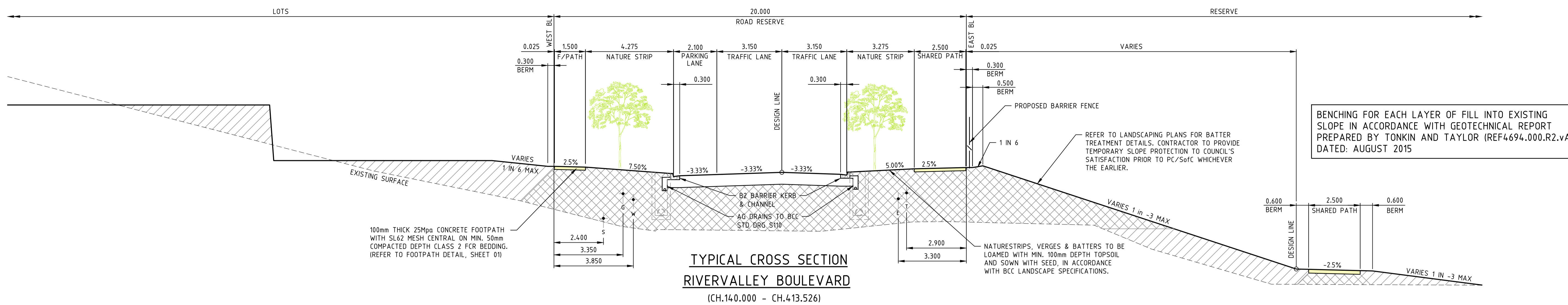
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RIVER VALLEY ESTATE - STAGE 7A
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TYPICAL DETAILS



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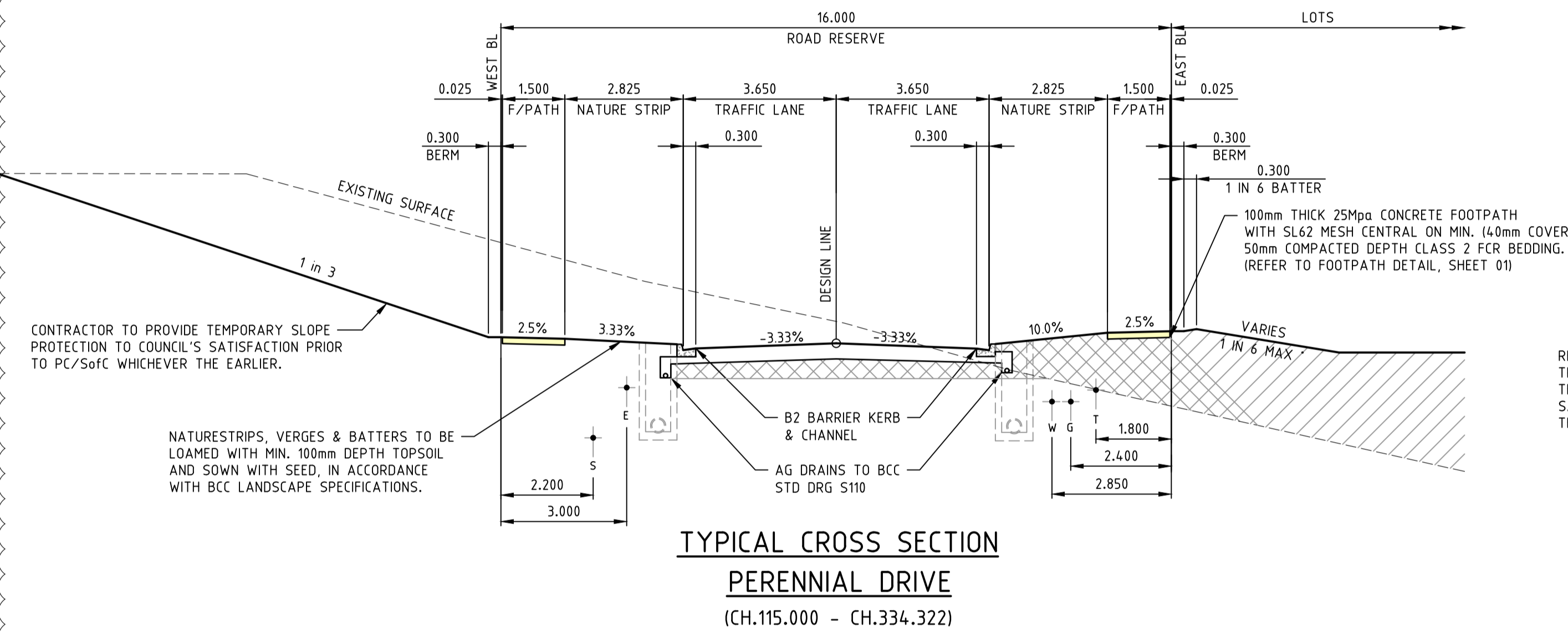
Drawing No. **12050TD02** Rev 1
Sheet No. 02 **CONSTRUCTION**
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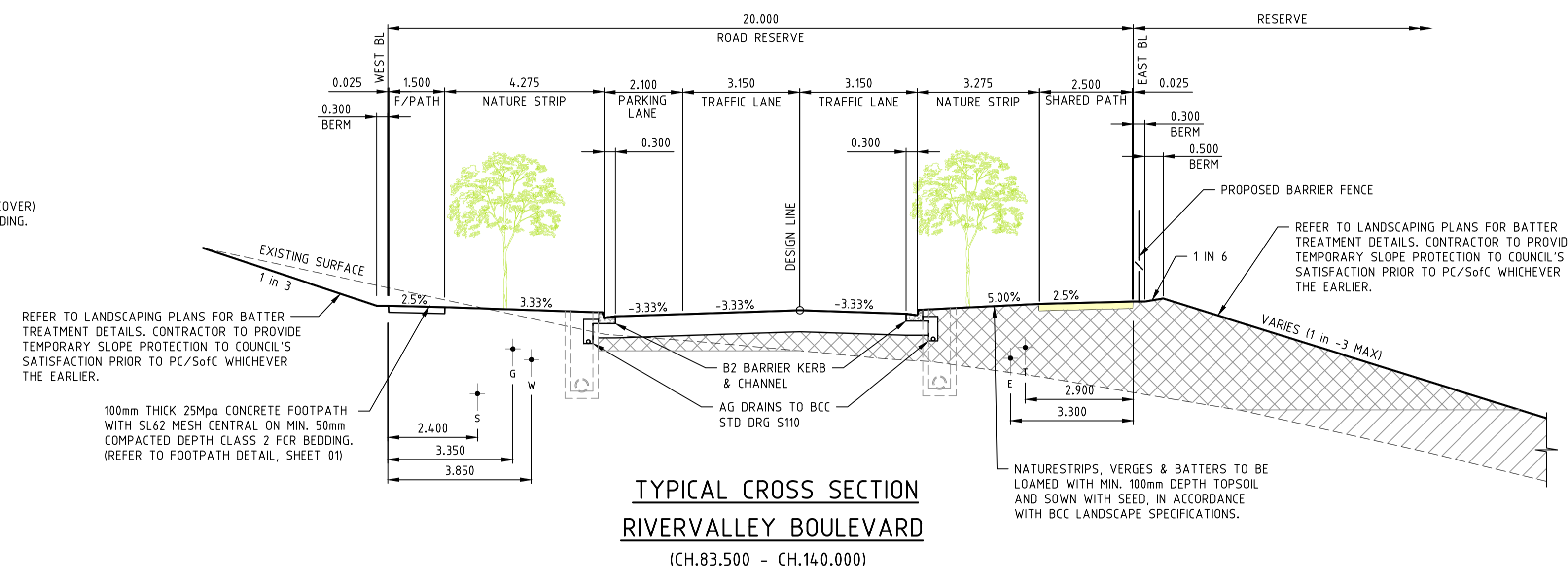
BENCHING FOR EACH LAYER OF FILL INTO EXISTING SLOPE IN ACCORDANCE WITH GEOTECHNICAL REPORT PREPARED BY TONKIN AND TAYLOR (REF4694.000.R2.VA) DATED: AUGUST 2015

100mm THICK 25Mpa CONCRETE FOOTPATH WITH SL62 MESH CENTRAL ON MIN. 50mm COMPACTED DEPTH CLASS 2 FCR BEDDING. (REFER TO FOOTPATH DETAIL, SHEET 01)

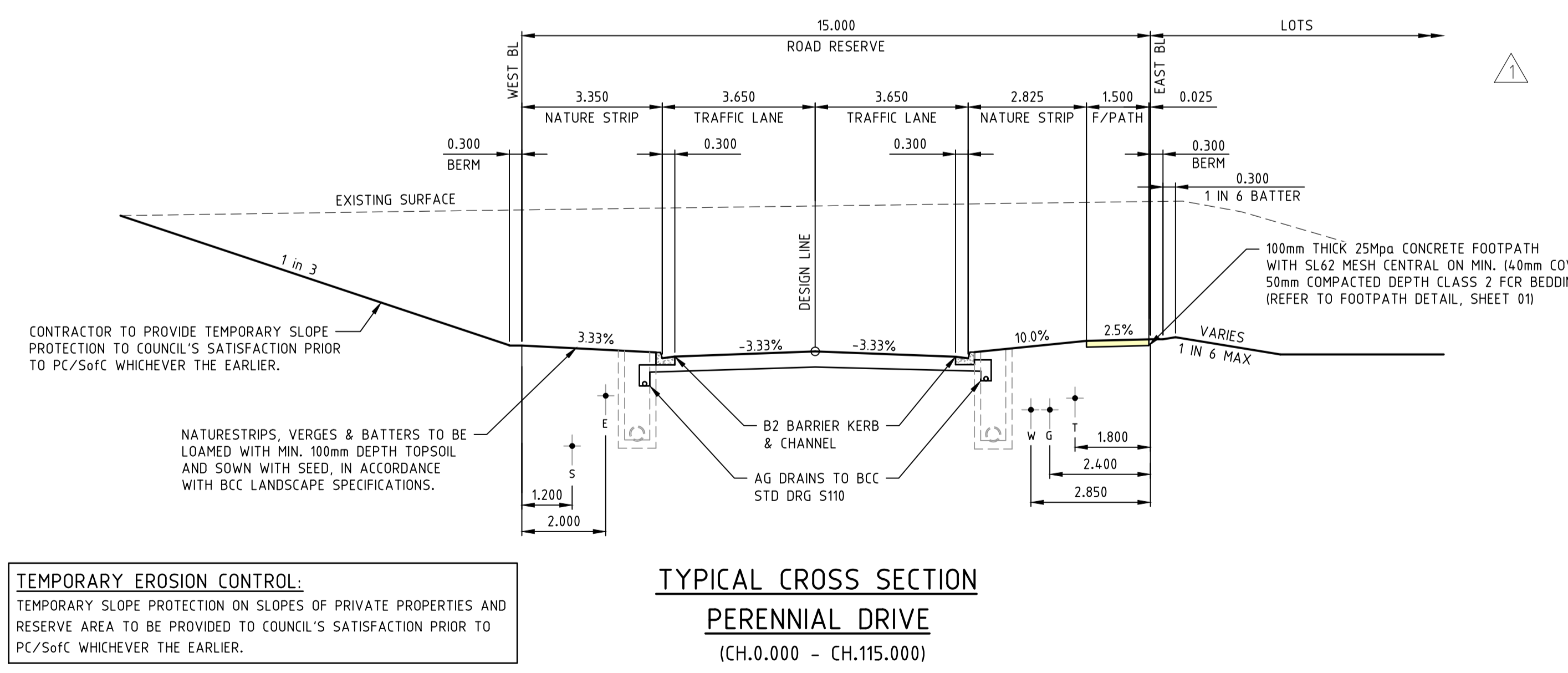
TYPICAL CROSS SECTION RIVERVALLEY BOULEVARD
(CH.140.000 - CH.413.526)



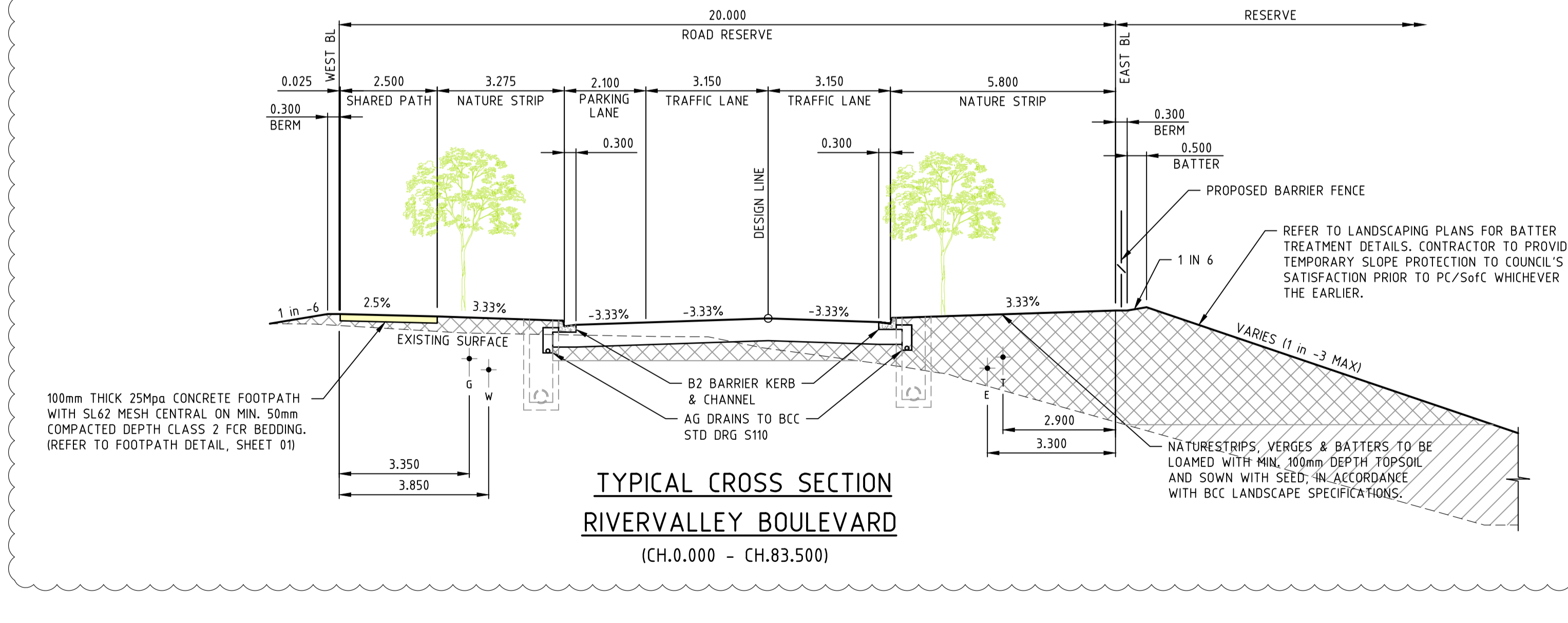
TYPICAL CROSS SECTION PERENNIAL DRIVE
(CH.115.000 - CH.334.322)



TYPICAL CROSS SECTION RIVERVALLEY BOULEVARD
(CH.83.500 - CH.140.000)



TYPICAL CROSS SECTION PERENNIAL DRIVE
(CH.0.000 - CH.115.000)



TYPICAL CROSS SECTION RIVERVALLEY BOULEVARD
(CH.0.000 - CH.83.500)

TEMPORARY EROSION CONTROL:
TEMPORARY SLOPE PROTECTION ON SLOPES OF PRIVATE PROPERTIES AND RESERVE AREA TO BE PROVIDED TO COUNCIL'S SATISFACTION PRIOR TO PC/SoFC WHICHEVER THE EARLIER.

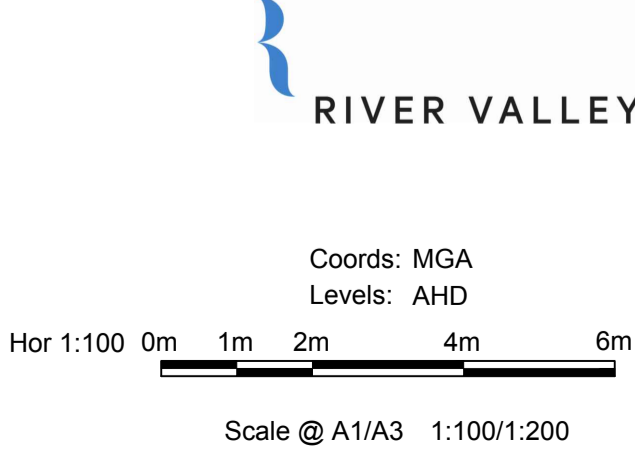
TABLE OF SERVICES LOCATIONS

STREET NAME	WATER	GAS	TELECOM	ELEC.	BOK	SEWER
RIVERVALLEY BOULEVARD	3.850 W	3.350 W	2.900 E	3.300 E	5.650 W	2.400 W
PERENNIAL DRIVE (15.0m ROAD RESERVE) CH.0.000 - CH.115.000	2.850 E	2.400 E	1.800 E	2.000 W	3.200 W	1.200 W
PERENNIAL DRIVE (16.0m ROAD RESERVE) CH.115.000 - CH.484.149	2.850 E	2.400 E	1.800 E	3.000 W	4.200 W	2.200 W

LEGEND

- [Hatched Box] DENOTES STRUCTURAL FILL (TYPE 2)
- [Hatched Box] TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.V2 DATED MAY 2018



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
TYPICAL SECTIONS

Drawing No. 12050TD03 Rev 1
Sheet No. 03 CONSTRUCTION



VICTORIA T 61 3 9813 7400
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ABN 78 429 221 049
QUEENSLAND T 61 7 3374 9000
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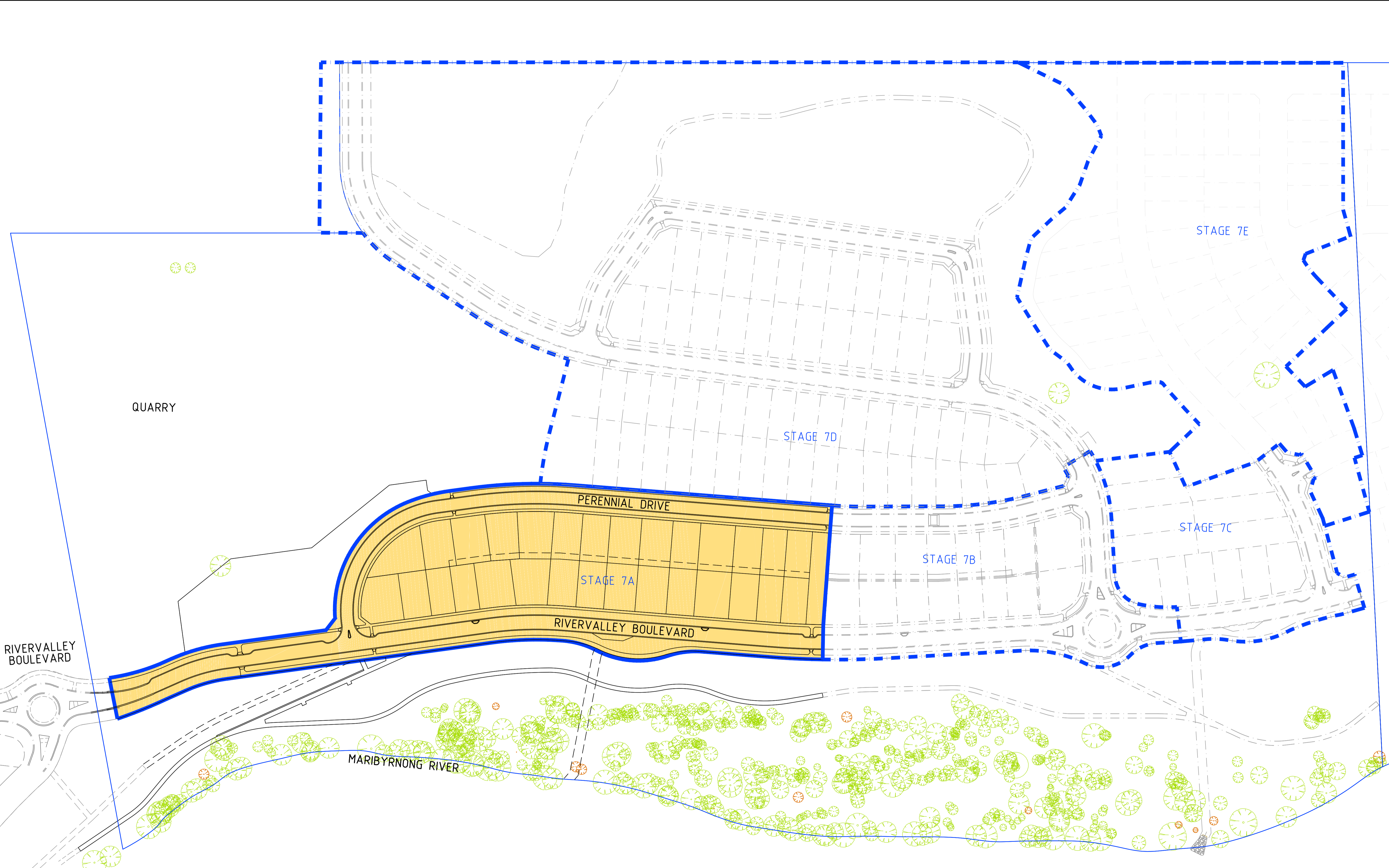
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 Drawing: 12050TD03
 Date/Time: Fri Jul 27, 2018 - 6:12pm - jburns

1	PERENNIAL DRIVE GAS AND WATER OFFSET AMENDED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS	DATE	APP'D.

Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
AN 1631372
Verified T.THAVENDRAN
Date 20/07/17
AN 943518
Audited R. MASON
Date 17/08/17
AN 704971
Approved T.LIAKOPOULOS
Date 04/09/17
AN 888081

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\13_Sydney\1\2050-river Valley - Stage 7A.dwg
 Drawing Title: RIVER VALLEY ESTATE - STAGE 7A
 Date/Time: Fri Jul 27, 2018 - 6:12pm -- jacob.burns

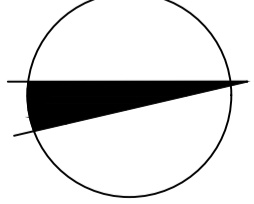


0	CONSTRUCTION ISSUE	25/09/17	TL
REV	AMENDMENTS	DATE	APPD.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631373
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943519
 Audited R.MASON
 Date 17/08/17
 AN 704972
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

- STAGE BOUNDARY
- FUTURE STAGE BOUNDARY
- TITLE BOUNDARY
- STAGE 7A



RIVER VALLEY

 Coords: MGA
 Levels: AHD
 Hor 1:1000 0m 10m 20m 40m 60m
 Scale @ A1/A3 1:1000/1:2000

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
STAGING PLAN
 Drawing No. **12050SP01** Rev 0
 Sheet No. 04 **CONSTRUCTION**
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

WARNING!
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

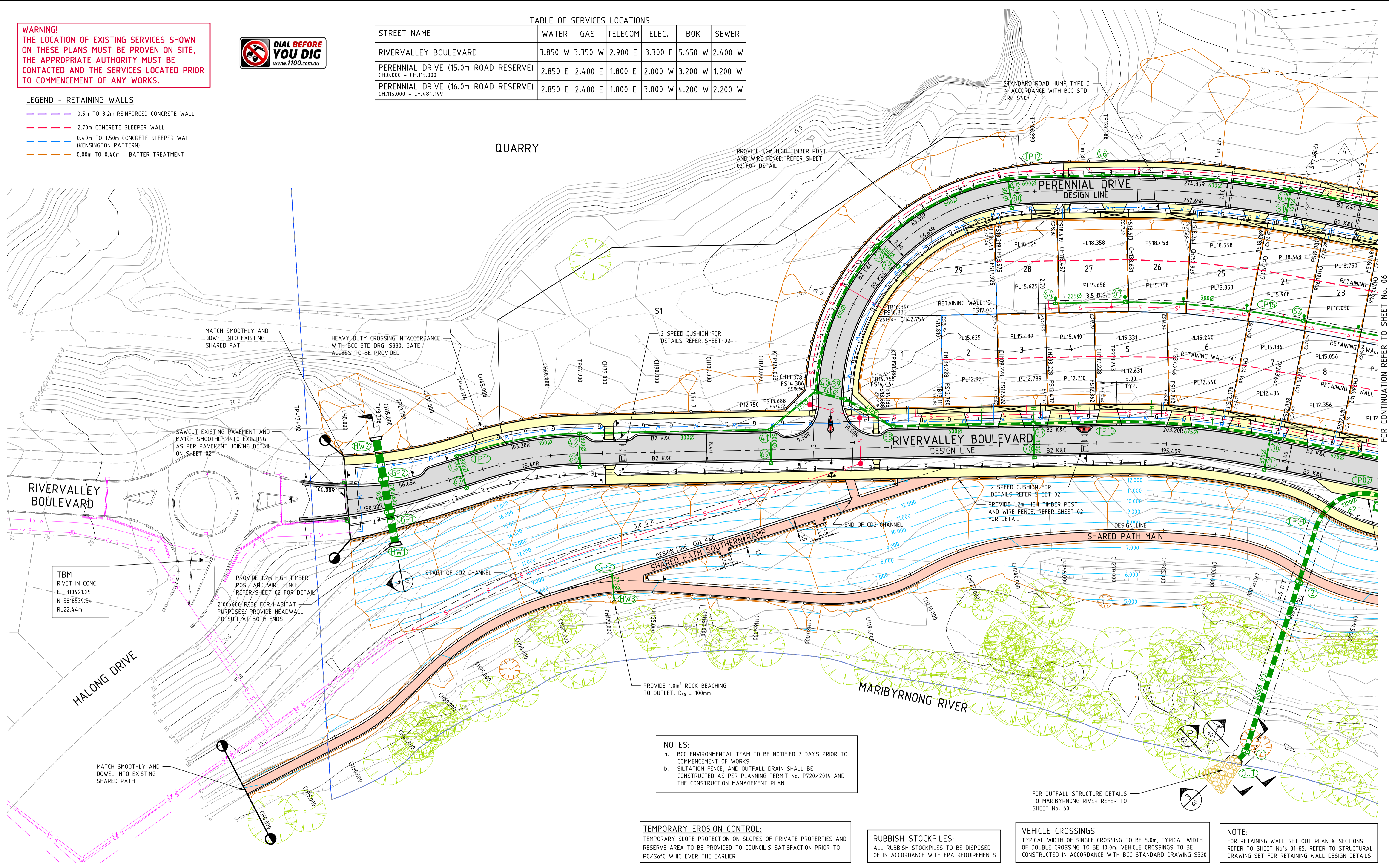


STREET NAME	WATER	GAS	TELECOM	ELEC.	BOK	SEWER
RIVERVALLEY BOULEVARD	3.850 W	3.350 W	2.900 E	3.300 E	5.650 W	2.400 W
PERENNIAL DRIVE (15.0m ROAD RESERVE)	2.850 E	2.400 E	1.800 E	2.000 W	3.200 W	1.200 W
PERENNIAL DRIVE (16.0m ROAD RESERVE)	2.850 E	2.400 E	1.800 E	3.000 W	4.200 W	2.200 W

LEGEND - RETAINING WALLS

- 0.5m to 3.2m REINFORCED CONCRETE WALL
- 2.70m CONCRETE SLEEPER WALL
- 0.40m TO 1.50m CONCRETE SLEEPER WALL (KENSINGTON PATTERN)
- 0.00m TO 0.40m - BATTER TREATMENT

QUARRY



NOTES:
a. BCC ENVIRONMENTAL TEAM TO BE NOTIFIED 7 DAYS PRIOR TO COMMENCEMENT OF WORKS
b. SILTATION FENCE, AND OUTFALL DRAIN SHALL BE CONSTRUCTED AS PER PLANNING PERMIT No. P720/2014 AND THE CONSTRUCTION MANAGEMENT PLAN

TEMPORARY EROSION CONTROL:
TEMPORARY SLOPE PROTECTION ON SLOPES OF PRIVATE PROPERTIES AND RESERVE AREA TO BE PROVIDED TO COUNCIL'S SATISFACTION PRIOR TO PC/SoF WHICH EVER THE EARLIER

RUBBISH STOCKPILES:
ALL RUBBISH STOCKPILES TO BE DISPOSED OF IN ACCORDANCE WITH EPA REQUIREMENTS

VEHICLE CROSSINGS:
TYPICAL WIDTH OF SINGLE CROSSING TO BE 5.0m, TYPICAL WIDTH OF DOUBLE CROSSING TO BE 10.0m. VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH BCC STANDARD DRAWING 5320

NOTE:
FOR RETAINING WALL SET OUT PLAN & SECTIONS REFER TO SHEET No's 81-85. REFER TO STRUCTURAL DRAWING SET FOR RETAINING WALL DESIGN DETAILS

REV	AMENDMENTS	DATE	APPD.
4	STAGE 7D DRIVEWAYS ADDED	27/07/18	TL
3	PERENNIAL DRIVE GAS AND WATER AMENDED	15/05/18	TL
2	COUNCIL COMMENTS	26/10/17	TL
1	HABITAT CULVERT AMENDMENTS	11/10/17	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
AN 1631374
Verified T.THAVENDRAN
Date 20/07/17
AN 943520
Audited R.MASON
Date 17/08/17
AN 704973
Approved T.LIAKOPOULOS
Date 04/09/17
AN 888081

- Ex W EXISTING WATER MAIN
- Ex G EXISTING GAS MAIN
- Ex E EXISTING ELECTRICAL CABLE
- Ex S EXISTING SEWER MAIN & MANHOLE
- Ex T EXISTING TELECOMM. CABLE AND PIT
- Ex P EXISTING ELEC. POLE & O'HEAD LINES
- Ex D EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- EXISTING TREES TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK

- LEGEND**
- SEWER MAIN AND MANHOLE
 - STORMWATER DRAIN & PIT
 - PROPERTY INLETS
 - HOUSE DRAIN
 - WATER
 - TELECOMMUNICATIONS
 - ELECTRICITY
 - GAS
 - SERVICE CONDUIT
 - 1.2m HIGH TIMBER POST & WIRE FENCE

- ASPHALT PAVEMENT
- CONC FPATH / SPATH / DRIVEWAY
- CONC SHARED PATH (IN RESERVE)
- LANDSCAPING
- STAMPED CONCRETE
- EXISTING SURFACE LEVEL
- FINISHED SURFACE LEVEL
- TOP OF BANK LEVEL
- PAD LEVEL
- TOP OF WALL LEVEL

Coors: MGA
Levels: AHD

Hor 1:500 0m 5m 10m 20m 30m

Scale @ A1/A3 1:500/1:1000

RIVER VALLEY

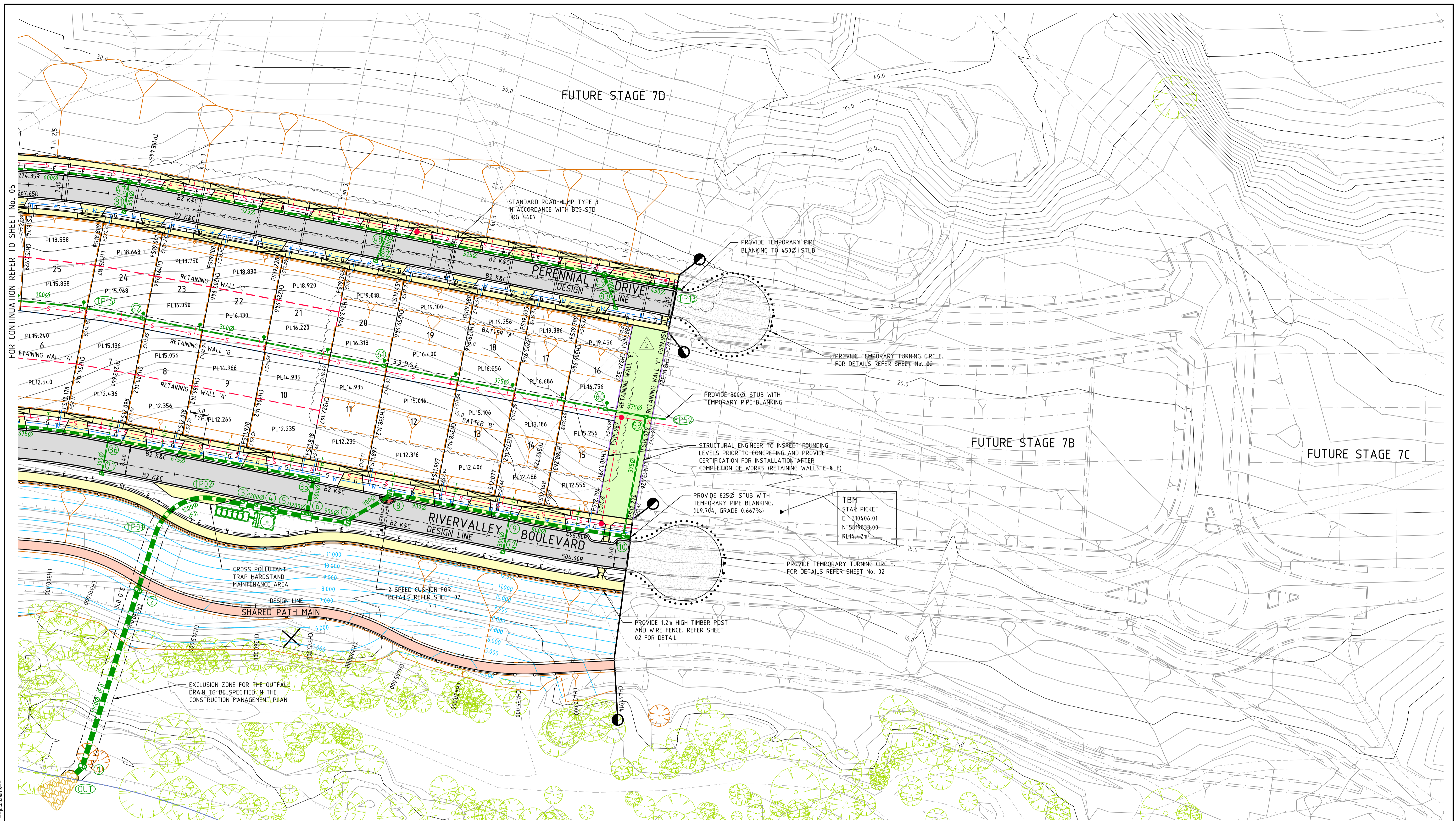
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
DETAIL PLAN
SHEET 01 OF 02
Drawing No. 12050DP01 Rev 4
Sheet No. 05 CONSTRUCTION

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QUEENSLAND T 61 7 3374 9000 E info@dceng.com.au

Drawing File: C:\12_Sydney\1\2050-River Valley - Stage 7A\8\Road\001
 Drawing No: 12050DP01-05
 Date/Time: Fri Jul 27, 2018 - 6:12pm - jacobs.burns

FOR CONTINUATION REFER TO SHEET No. 06



WARNING!
 THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

LEGEND - RETAINING WALLS

- 0.5m to 3.2m REINFORCED CONCRETE WALL
- 2.70m CONCRETE SLEEPER WALL
- 0.40m to 1.50m CONCRETE SLEEPER WALL (KENSINGTON PATTERN)
- 0.00m to 0.40m - BATTER TREATMENT

VEHICLE CROSSINGS:
 TYPICAL WIDTH OF SINGLE CROSSING TO BE 5.0m, TYPICAL WIDTH OF DOUBLE CROSSING TO BE 10.0m. VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH BCC STANDARD DRAWING S320

RUBBISH STOCKPILES:
 ALL RUBBISH STOCKPILES TO BE DISPOSED OF IN ACCORDANCE WITH EPA REQUIREMENTS

TEMPORARY EROSION CONTROL:
 TEMPORARY SLOPE PROTECTION ON SLOPES OF PRIVATE PROPERTIES AND RESERVE AREA TO BE PROVIDED TO COUNCIL'S SATISFACTION PRIOR TO PC/SoC WHICHEVER THE EARLIER

NOTES:
 a. BCC ENVIRONMENTAL TEAM TO BE NOTIFIED 7 DAYS PRIOR TO COMMENCEMENT OF WORKS
 b. SILTATION FENCE, AND OUTFALL DRAIN SHALL BE CONSTRUCTED AS PER PLANNING PERMIT No. P720/2014 AND THE CONSTRUCTION MANAGEMENT PLAN

NOTE:
 FOR RETAINING WALL SET OUT PLAN & SECTIONS REFER TO SHEET No's 81-85. REFER TO STRUCTURAL DRAWING SET FOR RETAINING WALL DESIGN DETAILS

REV	AMENDMENTS	DATE	APPD.
2	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
1	WATER QUALITY STRUCTURES AMENDED	25/01/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

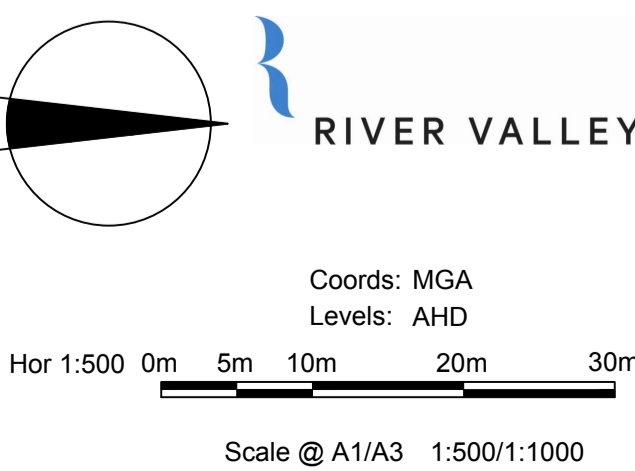
Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631375
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943521
 Audited R.MASON
 Date 17/08/17
 AN 704974
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

EXISTING WATER MAIN
 EXISTING GAS MAIN
 EXISTING ELECTRICAL CABLE
 EXISTING SEWER MAIN & MANHOLE
 EXISTING TELECOMM. CABLE AND PIT
 EXISTING ELEC. POLE & O'HEAD LINES
 EXISTING STORMWATER DRAIN & PIT
 CONSTRUCTED PRE DEVELOPMENT
 EXISTING TREES TO BE REMOVED
 PERMANENT SURVEY MARK
 TEMPORARY BENCH MARK

LEGEND

- SEWER MAIN AND MANHOLE
- STORMWATER DRAIN & PIT
- PROPERTY INLETS
- HOUSE DRAIN
- WATER
- TELECOMMUNICATIONS
- ELECTRICITY
- GAS
- SERVICE CONDUIT
- 1.2m HIGH TIMBER POST & WIRE FENCE

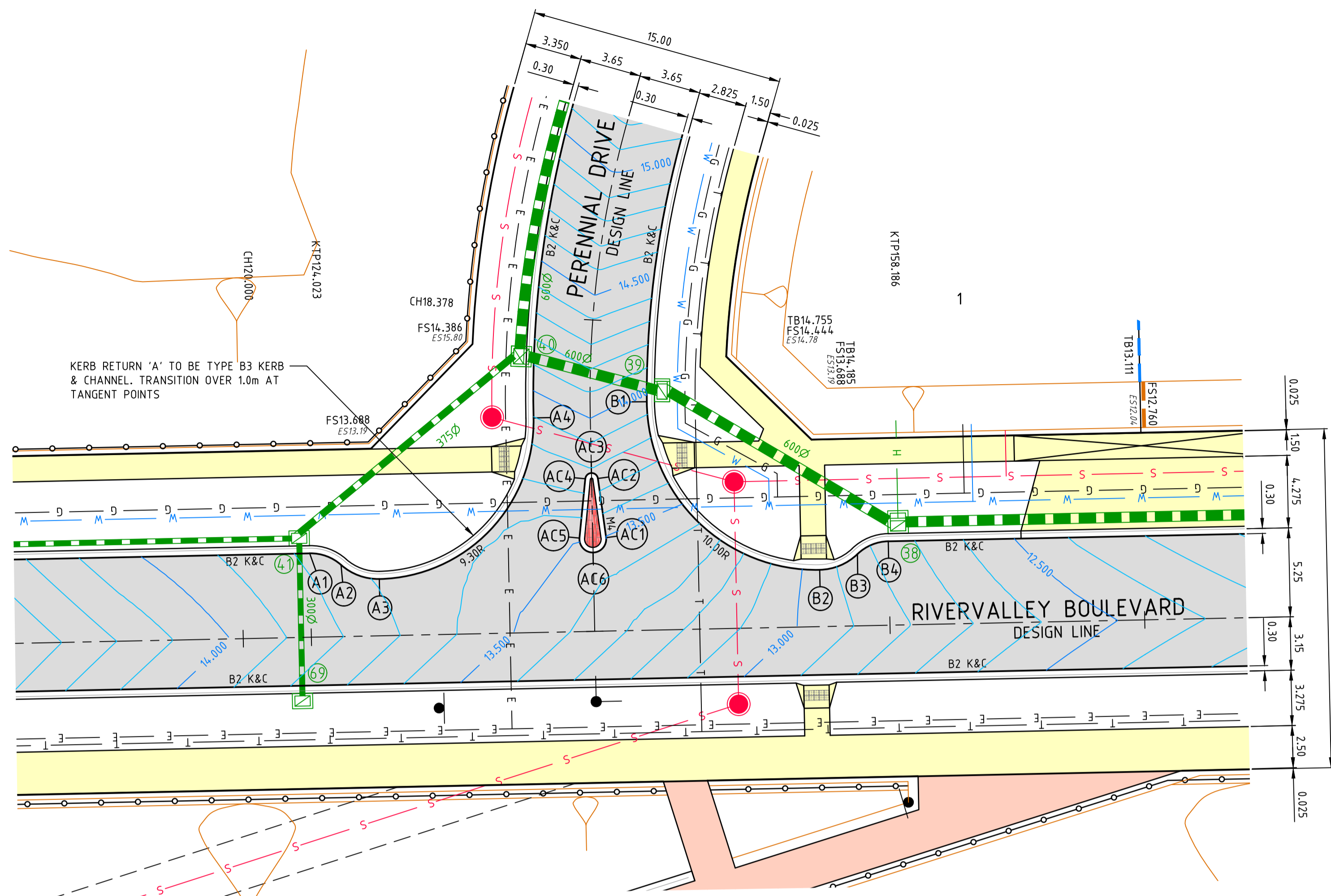
- ASPHALT PAVEMENT
- CONC FPATH / SPATH / DRIVEWAY
- CONC SHARED PATH (IN RESERVE)
- LANDSCAPING
- STAMPED CONCRETE
- EXISTING SURFACE LEVEL
- FINISHED SURFACE LEVEL
- TOP OF BANK LEVEL
- PAD LEVEL
- TOP OF WALL LEVEL



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 DETAIL PLAN
 SHEET 02 OF 02
 Drawing No. 12050DP02 Rev 2
 Sheet No. 06 CONSTRUCTION
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



PLAN
SCALE 1:200

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	310384.625	5818703.722	13.779
A2	310385.307	5818705.572	13.737
A3	310386.140	5818707.833	13.692
A4	310376.636	5818716.937	13.895

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
A1 - A2	42.833	2.700	2.018	0.186	0.139	0.502	0.484	0.505	13.758
A2 - A3	42.833	3.300	2.467	0.228	0.170	0.613	0.592	0.617	13.713
A3 - A4	90.079	9.300	14.621	2.728	2.019	3.562	3.019	3.655	13.616

ALIGNMENT B

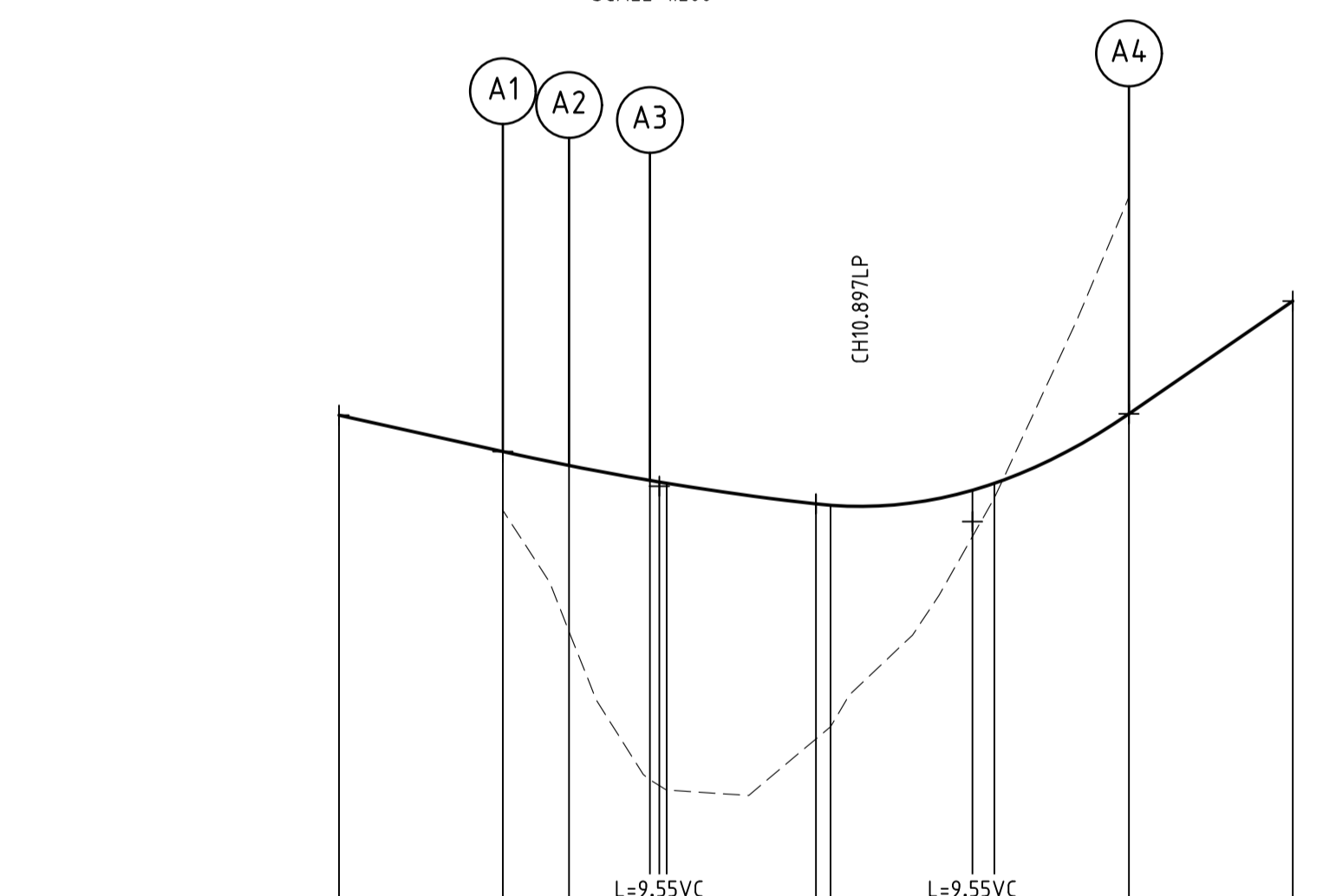
POINT NO	EASTING	NORTHING	RL
B1	310375.680	5818723.624	13.954
B2	310385.599	5818733.831	12.948
B3	310384.672	5818736.056	12.837
B4	310383.914	5818737.876	12.757

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
B1 - B2	90.737	10.000	15.837	2.975	2.201	3.857	3.260	3.959	13.407
B2 - B3	42.833	3.300	2.467	0.228	0.170	0.613	0.592	0.617	12.890
B3 - B4	42.833	2.700	2.018	0.186	0.139	0.502	0.484	0.505	12.795

ALIGNMENT AC

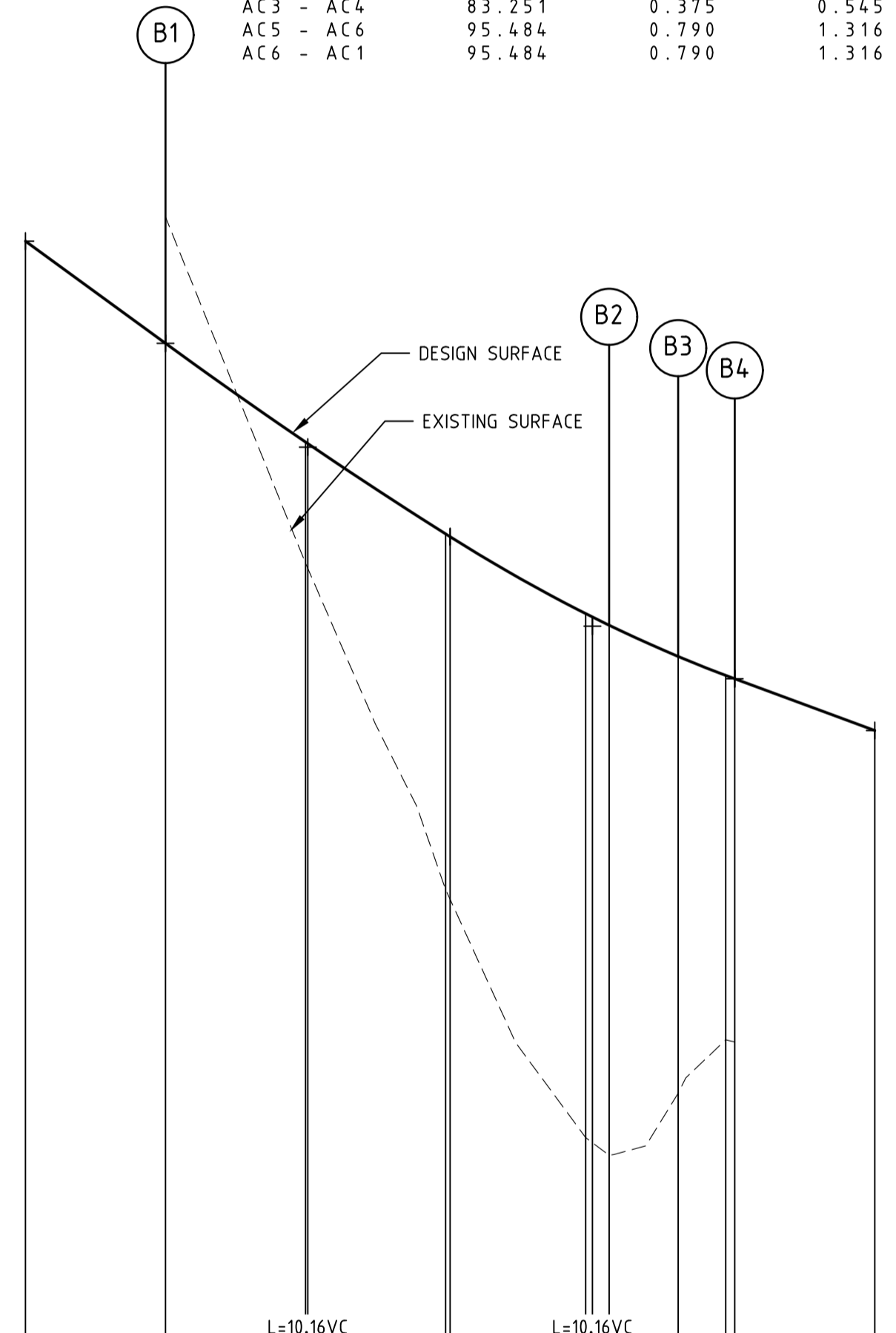
POINT NO	EASTING	NORTHING	RL
AC1	310383.699	5818721.222	13.493
AC2	310380.209	5818720.735	13.755
AC3	310379.886	5818720.356	13.778
AC4	310380.225	5818719.990	13.759
AC5	310383.725	5818719.650	13.516
AC6	310384.577	5818720.450	13.455

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
AC2 - AC3	83.251	0.375	0.545	0.095	0.070	0.133	0.116	0.136	13.772
AC3 - AC4	83.251	0.375	0.545	0.095	0.070	0.133	0.116	0.136	13.774
AC5 - AC6	95.484	0.790	1.316	0.259	0.191	0.320	0.265	0.329	13.477
AC6 - AC1	95.484	0.790	1.316	0.259	0.191	0.320	0.265	0.329	13.459



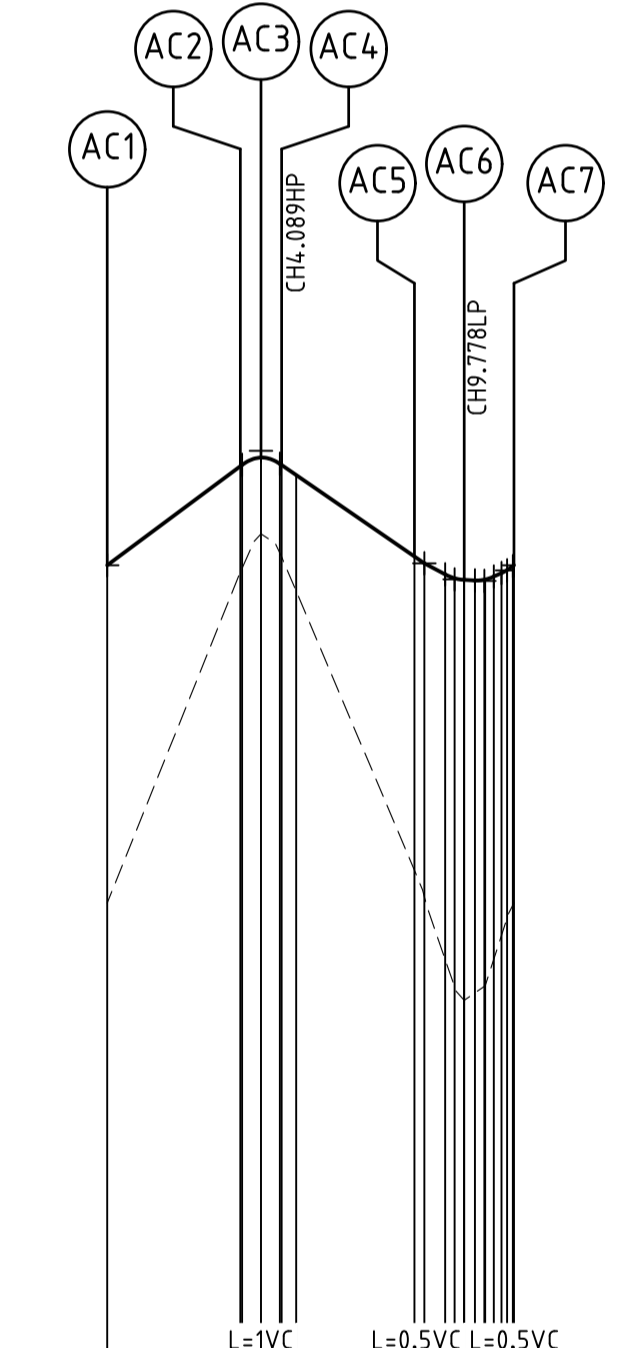
LIP PROFILE 'A'

DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
13.890		-5.000
13.779	13.60	0.000
13.737	13.23	2.018
13.692	12.78	4.486
13.687	12.76	4.777
13.683	12.75	5.000
13.620	12.89	9.553
13.616	12.94	10.000
13.662	13.51	14.330
13.663	13.64	15.000
13.895	14.56	19.107
14.239		24.107



LIP PROFILE 'B'

DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
14.318		-5.000
13.954	14.40	0.000
13.602	13.17	5.000
13.596	13.15	5.081
13.274	12.01	10.000
13.264	11.96	10.161
12.990	11.12	15.000
12.948	11.06	15.037
12.837	11.28	18.304
12.769	11.47	20.000
12.757	11.46	20.322
12.572		25.322



LIP PROFILE 'AC'

DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
13.493		0.000
13.755	13.48	3.524
13.735	13.58	3.569
13.738	13.63	4.569
13.762	13.64	4.614
13.759	13.64	5.000
13.516	12.69	8.130
13.498	12.62	8.392
13.459	12.62	9.192
13.459	12.37	9.442
13.455	12.34	9.442
13.455	12.34	9.979
13.455	12.38	10.000
13.456	12.38	10.430
13.493	12.50	10.580
13.493	12.55	10.580
13.493	12.60	10.769

Drawing File: C:\Users\jburns\OneDrive - Atlantic Link Pty Ltd\Documents\River Valley - Stage 7A\Drawings\02 - Intersection Details\02_02_03 - Construction Issue.dwg
 Date/Time: Fri, Jul 27, 2018 - 6:12pm - jacob.burns

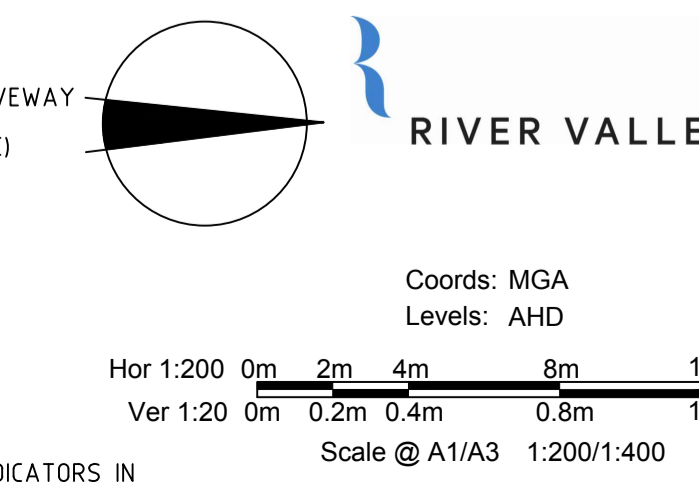
0	CONSTRUCTION ISSUE	25/09/17	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631377
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943523
 Audited R.MASON
 Date 17/08/17
 AN 704976
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

- Ex W EXISTING WATER MAIN
- Ex G EXISTING GAS MAIN
- Ex E EXISTING ELECTRICAL CABLE
- Ex S EXISTING SEWER MAIN & MANHOLE
- Ex T EXISTING TELECOMM. CABLE AND PIT
- Ex P EXISTING ELEC. POLE & O'HEAD LINES
- Ex V EXISTING STORMWATER DRAIN & PIT
- Ex C CONSTRUCTED PRE DEVELOPMENT
- Ex X EXISTING TREES TO BE REMOVED

- LEGEND**
- S — SEWER MAIN AND MANHOLE
 - G — STORMWATER DRAIN & PIT
 - E — SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
 - S — EXISTING SEWER MAIN & MANHOLE
 - T — EXISTING TELECOMM. CABLE AND PIT
 - P — EXISTING ELEC. POLE & O'HEAD LINES
 - V — EXISTING STORMWATER DRAIN & PIT
 - C — CONSTRUCTED PRE DEVELOPMENT
 - X — EXISTING TREES TO BE REMOVED
 - ▲ PERMANENT SURVEY MARK
 - ▲ TEMPORARY BENCH MARK

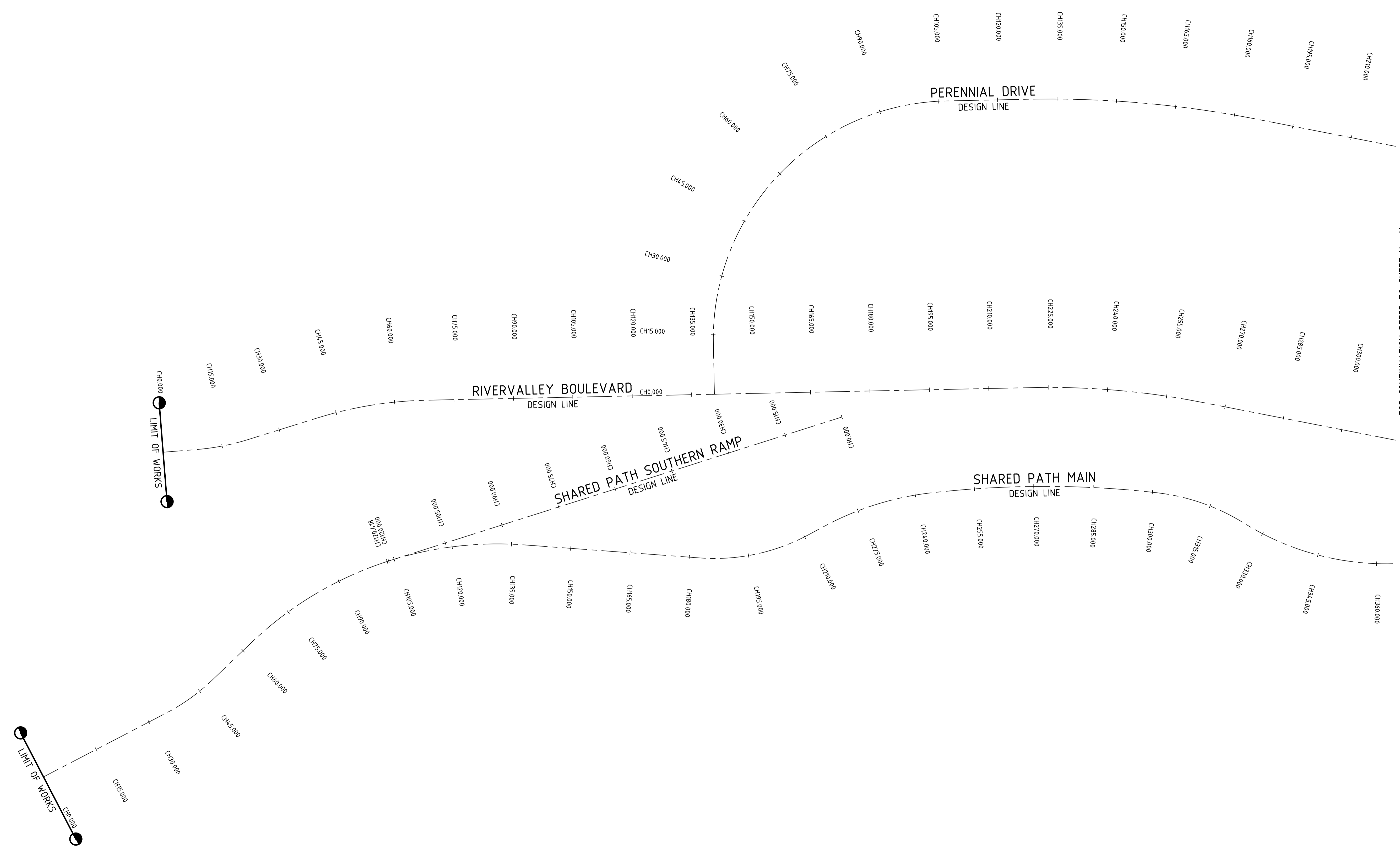
- ASPHALT PAVEMENT
- CONC FPATH / SPATH / DRIVEWAY
- CONC SHARED PATH (RESERVE)
- STAMPED CONCRETE
- EXISTING SURFACE LEVEL
- FINISHED SURFACE LEVEL
- PAD LEVEL
- TOP OF WALL LEVEL
- FINISHED SURFACE CONTOUR
- DENOTES TACTILE GROUND INDICATORS IN ACCORDANCE WITH AS. 1428



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
INTERSECTION DETAILS
SHEET 02 OF 03
Drawing No. 12050ID02 Rev 0
 Sheet No. 08 CONSTRUCTION
 Scale @ A1/A3 1:200/1:400
 Coords: MGA
 Levels: AHD

DALTON CONSULTING ENGINEERS
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 VICTORIA
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 W dceng.com.au
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 T 61 7 3374 9000
 E info@dceng.com.au

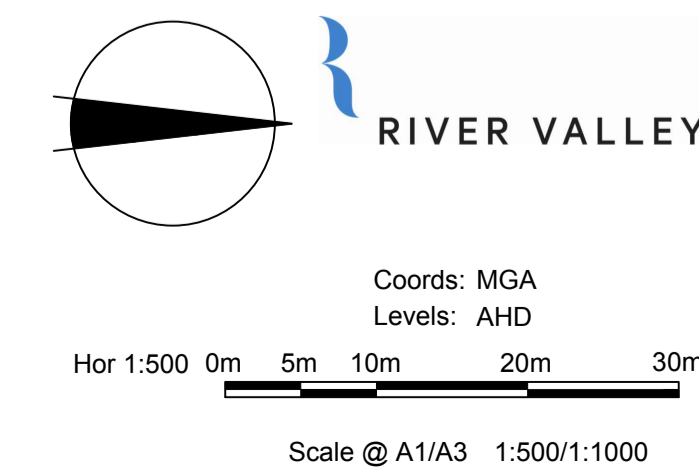
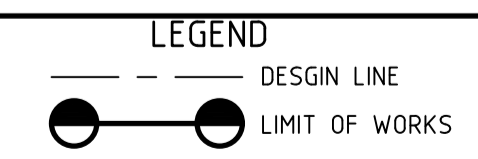
FOR CONTINUATION REFER TO SHEET No. 11



Drawing File: C:\124_Sunshine\12050-Sunshine North - Stage 7A\8\Locat\001.dwg
 Drawing No: 12050SOP01
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--

REV	DESCRIPTION	DATE	APP'D.
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS	DATE	APP'D.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631379
 Verified T.THAUENDRAN
 Date 20/07/17
 AN 943525
 Audited R. MASON
 Date 17/08/17
 AN 704978
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
SET OUT DETAILS
SHEET 01 OF 03
Drawing No. 12050SOP01 Rev 0
 Sheet No. 10 **CONSTRUCTION**
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 ABN 78 429 221 049

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 ABN 78 429 221 049
 VICTORIA T 61 3 9813 7400
 W dceng.com.au
 QUEENSLAND T 61 7 3374 9000
 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

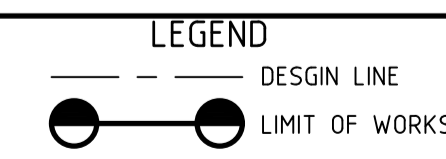
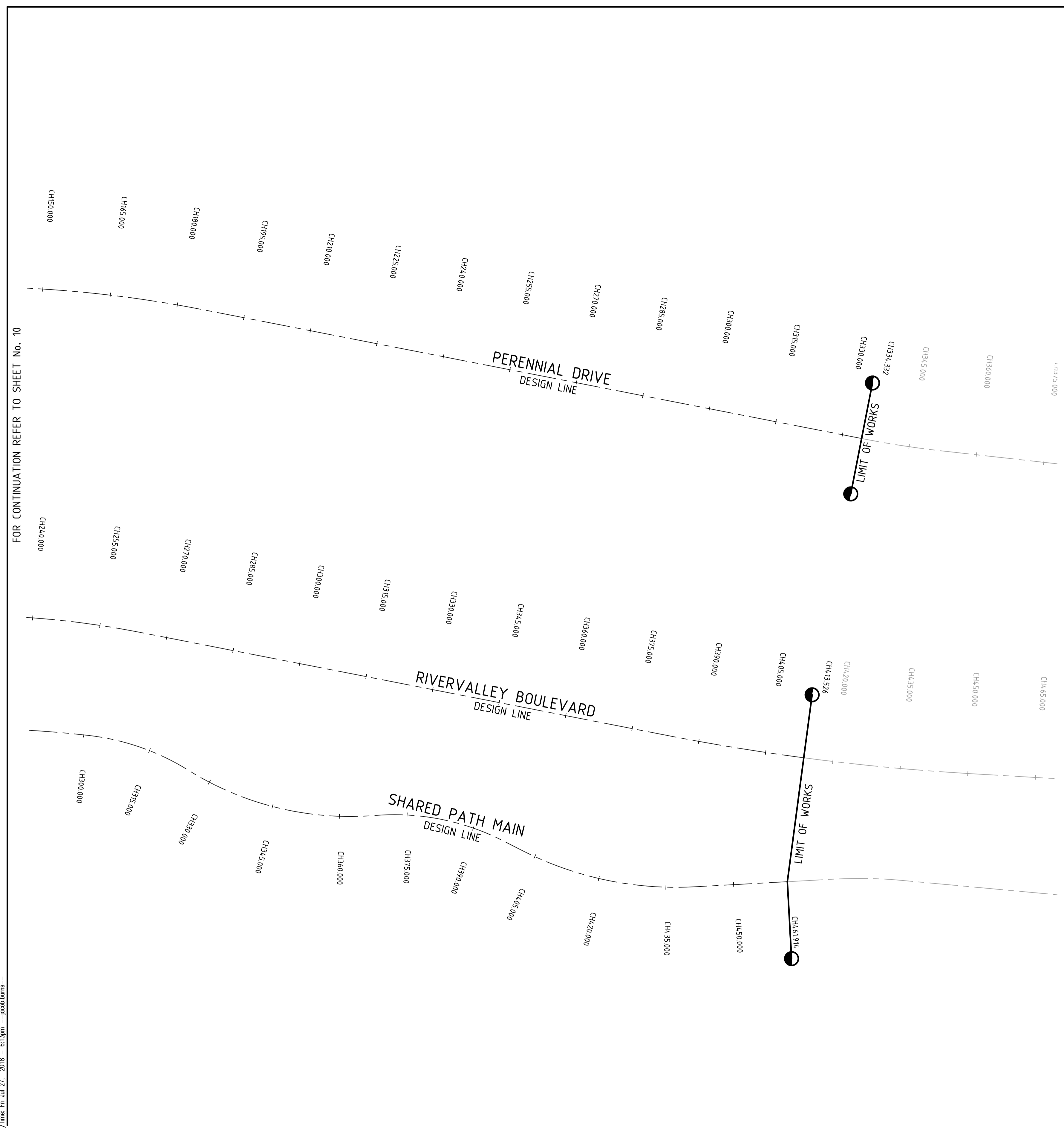
HORIZONTAL ALIGNMENT REPORT FOR RIVERVALLEY BOULEVARD

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT	0.000	310403.856	5818581.393	19.433	355°26'60.00"	
TANGENT-CURVE	8.398	310403.190	5818589.765	19.013	355°26'60.00"	
CURVE	10.000	310403.041	5818591.360	18.933	353°55'14.18"	-60.000
CURVE	15.000	310402.305	5818596.304	18.683	349°08'45.45"	-60.000
CURVE	20.000	310401.160	5818601.170	18.433	344°22'16.71"	-60.000
CURVE-TANGENT	21.751	310400.664	5818602.849	18.345	342°41'57.54"	-60.000
STRAIGHT	30.000	310398.211	5818610.725	17.933	342°41'57.54"	
TANGENT-CURVE	40.194	310395.180	5818620.457	17.423	342°41'57.54"	
CURVE	45.000	310393.863	5818625.079	17.183	345°29'37.37"	98.550
CURVE	52.500	310392.262	5818632.404	16.808	349°51'14.84"	98.550
CURVE	60.000	310391.223	5818639.830	16.433	354°12'52.32"	98.550
CURVE	67.500	310390.751	5818647.313	16.058	358°34'29.79"	98.550
CURVE-TANGENT	67.900	310390.742	5818647.713	16.038	358°48'26.63"	98.550
STRAIGHT	75.000	310390.594	5818654.812	15.684	358°48'26.63"	
STRAIGHT	90.000	310390.282	5818669.809	15.006	358°48'26.63"	
STRAIGHT	105.000	310389.970	5818684.805	14.441	358°48'26.63"	
STRAIGHT	120.000	310389.658	5818699.802	13.977	358°48'26.63"	
STRAIGHT	135.000	310389.346	5818714.799	13.529	358°48'26.63"	
STRAIGHT	150.000	310389.033	5818729.796	13.081	358°48'26.63"	
STRAIGHT	165.000	310388.721	5818744.792	12.652	358°48'26.63"	
STRAIGHT	180.000	310388.409	5818759.789	12.347	358°48'26.63"	
STRAIGHT	195.000	310388.097	5818774.786	12.183	358°48'26.63"	
STRAIGHT	210.000	310387.785	5818789.783	12.106	358°48'26.63"	
TANGENT-CURVE	221.243	310387.551	5818801.023	12.050	358°48'26.63"	
CURVE	225.000	310387.508	5818804.780	12.031	359°53'35.88"	198.250
CURVE	232.500	310387.626	5818812.278	11.994	359°39'09.94"	198.250
CURVE	240.000	310388.047	5818819.767	11.956	4°13'42.29"	198.250
CURVE	247.500	310388.742	5818827.234	11.919	6°23'45.50"	198.250
CURVE	255.000	310389.718	5818834.670	11.881	8°33'48.71"	198.250
CURVE	262.500	310390.975	5818842.063	11.844	10°43'51.92"	198.250
CURVE-TANGENT	263.641	310391.190	5818843.184	11.838	11°03'39.00"	198.250
STRAIGHT	270.000	310392.410	5818849.424	11.806	11°03'39.00"	
STRAIGHT	285.000	310395.288	5818864.146	11.731	11°03'39.00"	
STRAIGHT	300.000	310398.166	5818878.867	11.656	11°03'39.00"	
STRAIGHT	315.000	310401.044	5818893.589	11.581	11°03'39.00"	
TANGENT-TANGENT	318.859	310401.784	5818897.376	11.562	11°03'39.00"	
STRAIGHT	330.000	310403.921	5818908.310	11.565	11°03'39.00"	
STRAIGHT	345.000	310406.799	5818923.031	11.640	11°03'39.00"	
STRAIGHT	360.000	310409.677	5818937.753	11.715	11°03'39.00"	
STRAIGHT	375.000	310412.555	5818952.474	11.790	11°03'39.00"	
TANGENT-CURVE	382.729	310414.038	5818960.060	11.829	11°03'39.00"	
CURVE	390.000	310415.381	5818967.205	11.865	10°13'50.14"	-501.750
CURVE	405.000	310417.824	5818982.004	11.940	8°31'03.78"	-501.750
CURVE	420.000	310419.824	5818996.870	12.015	6°48'17.42"	-501.750
CURVE	435.000	310421.378	5819011.789	12.090	5°05'31.05"	-501.750
CURVE	450.000	310422.486	5819026.747	12.183	3°22'44.69"	-501.750
CURVE-TANGENT	450.224	310422.499	5819026.971	12.185	3°21'12.62"	-501.750
STRAIGHT	465.000	310423.363	5819041.721	12.378	3°21'12.62"	
STRAIGHT	480.000	310424.241	5819056.696	12.686	3°21'12.62"	
STRAIGHT	495.000	310425.118	5819071.670	13.060	3°21'12.62"	
STRAIGHT	510.000	310425.996	5819086.644	13.435	3°21'12.62"	

HORIZONTAL ALIGNMENT REPORT FOR PERENNIAL DRIVE

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	310389.226	5818720.550	13.356	268°48'26.63"	
TANGENT-CURVE	12.750	310376.479	5818720.285	14.012	268°48'26.63"	
CURVE	15.000	310374.229	5818720.280	14.167	270°57'21.56"	60.000
CURVE	20.000	310369.239	5818720.572	14.512	275°43'50.29"	60.000
CURVE	25.000	310364.290	5818721.278	14.856	280°30'19.03"	60.000
CURVE	30.000	310359.418	5818722.393	15.200	285°16'47.76"	60.000
CURVE	35.000	310354.655	5818723.910	15.544	29°03'16.50"	60.000
CURVE	40.000	310350.925	5818725.878	15.878	29°49'45.23"	60.000
CURVE	45.000	310345.590	5818729.104	16.187	29°36'13.96"	60.000
CURVE	50.000	310341.350	5818730.752	16.472	30°42'42.70"	60.000
CURVE	55.000	310337.346	5818733.744	16.732	30°09'11.43"	60.000
CURVE	60.000	310333.605	5818737.059	16.968	31°55'40.16"	60.000
CURVE	65.000	310330.152	5818740.674	17.179	31°42'08.90"	60.000
CURVE	70.000	310327.013	5818744.563	17.366	32°28'37.63"	60.000
CURVE	75.000	310324.208	5818748.701	17.528	32°15'06.37"	60.000
CURVE	80.000	310321.757	5818753.057	17.665	33°01'35.10"	60.000
CURVE	85.000	310319.677	5818757.602	17.779	33°48'03.83"	60.000
CURVE	90.000	310317.983	5818762.305	17.867	34°23'32.57"	60.000
CURVE	95.000	310316.686	5818767.133	17.931	34°7'21.01.30"	60.000
CURVE	100.000	310315.796	5818772.051	17.981	35°27'30.04"	60.000
CURVE	105.000	310315.318	5818777.027	18.031	35°53'58.77"	60.000
CURVE-TANGENT	106.998	310315.253	5818779.023	18.051	35°48'26.63"	60.000
STRAIGHT	120.000	310314.972	5818792.022	18.181	35°48'26.63"	
TANGENT-CURVE	127.488	310314.816	5818799.509	18.256	35°48'26.63"	
CURVE	127.500	310314.816	5818799.521	18.256	35°48'35.93"	271.000
CURVE	135.000	310314.764	5818807.020	18.318	0°23'44.36"	271.000
CURVE	142.500	310314.920	5818814.519	18.368	1°58'52.80"	271.000
CURVE	150.000	310315.283	5818822.010	18.418	3°34'01.23"	271.000
CURVE	157.500	310315.853	5818829.488	18.468	5°09'09.67"	271.000
CURVE	165.000	310316.630	5818836.947	18.518	6°44'18.10"	271.000
CURVE	172.500	310317.613	5818844.382	18.568	8°19'26.54"	271.000
CURVE	180.000	310318.801	5818851.787	18.618	9°54'34.97"	271.000
CURVE-TANGENT	185.445	310319.792	5818857.141	18.655	11°03'39.00"	271.000
STRAIGHT	195.000	310321.625	5818866.519	18.719	11°03'39.00"	
STRAIGHT	210.000	310324.503	5818881.240	18.819	11°03'39.00"	
STRAIGHT	225.000	310327.381	5818895.961	18.919	11°03'39.00"	
STRAIGHT	240.000	310330.258	5818910.683	19.019	11°03'39.00"	
STRAIGHT	255.000	310333.136	5818925.404	19.119	11°03'39.00"	
STRAIGHT	270.000	310336.014	5818940.125	19.219	11°03'39.00"	
STRAIGHT	285.000	310338.892	5818954.847	19.319	11°03'39.00"	
STRAIGHT	300.000	310341.769	5818969.568	19.419	11°03'39.00"	
STRAIGHT	315.000	310344.647	5818984.289	19.519	11°03'39.00"	
STRAIGHT	330.000	310347.525	5818999.011	19.619	11°03'39.00"	
TANGENT-CURVE	335.427	310348.566	5819004.337	19.655	11°03'39.00"	
CURVE	337.500	310348.953	5819006.374	19.669	10°27'50.34"	-199.000
CURVE	345.000	310350.176	5819013.773	19.719	8°18'16.54"	-199.000
CURVE-TANGENT	351.662	310351.028	5819020.380	19.763	6°23'11.09"	-199.000
STRAIGHT	360.000	310351.955	5819028.666	19.819	6°23'11.09"	
STRAIGHT	375.000	310353.624	5819043.573	19.879	6°23'11.09"	
STRAIGHT	390.000	310355.292	5819058.480	20.075	6°23'11.09"	
TANGENT-CURVE	399.189	310356.314	5819067.612	20.260	6°23'11.09"	
CURVE	405.000	310356.876	5819073.395	20.412	4°42'48.01"	-199.000
CURVE	412.500	310357.352	5819080.880	20.643	2°33'14.21"	-199.000
CURVE	420.000	310357.545	5819088.377	20.879	0°23'40.41"	-199.000

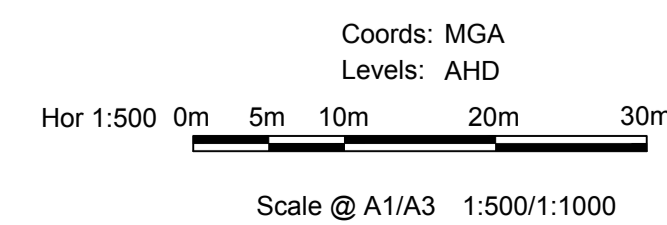
FOR CONTINUATION REFER TO SHEET No. 10



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 SET OUT DETAILS
 SHEET 02 OF 03
 Drawing No. 12050SOP02 Rev 0
 Sheet No. 11 CONSTRUCTION
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Drawing File: C:\124_Sunshine\12050-River Valley - Stage 7A\Set Out\02
 Drawing No: 12050SOP02
 Date/Time: Fri Jul 27, 2018 - 6:13pm - jacobsburns--

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631380
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943526
 Audited R.MASON
 Date 17/08/17
 AN 704979
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

REV	DESCRIPTION	DATE	APPD.
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS		

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

HORIZONTAL ALIGNMENT REPORT FOR SHARED PATH MAIN

POINT TYPE	CHAINAGE	COORDINATES		RL	BEARING DEG MIN SEC	RADIUS
		EASTING	NORTHING			
INTERSECTION POINT	0.000	310485.757	5818551.227	6.027	332°31'05.32"	
STRAIGHT	15.000	310478.835	5818564.534	6.144	332°31'05.32"	
VC INTERSECTION POINT	17.623	310477.625	5818566.861	6.164	332°31'05.32"	
STRAIGHT	30.000	310471.913	5818577.842	6.287	332°31'05.32"	
TANGENT-CURVE	34.998	310469.607	5818582.275	6.336	332°31'05.32"	-50.000
CURVE	35.000	310469.606	5818582.277	6.336	332°30'55.52"	-50.000
CURVE	40.000	310467.081	5818586.590	6.386	326°47'09.04"	-50.000
CURVE	45.000	310464.137	5818590.630	6.435	321°03'22.56"	-50.000
CURVE-TANGENT	49.178	310461.378	5818593.766	6.484	316°16'05.92"	-50.000
STRAIGHT	60.000	310453.898	5818601.586	6.720	316°16'05.92"	
TANGENT-CURVE	62.819	310451.949	5818603.623	6.807	316°16'05.92"	90.000
CURVE	67.500	310448.802	5818607.088	6.974	319°14'54.20"	90.000
CURVE	75.000	310444.149	5818612.967	7.250	324°01'22.93"	90.000
CURVE	82.500	310440.001	5818619.212	7.469	328°47'51.67"	90.000
CURVE	90.000	310436.387	5818625.782	7.565	333°34'20.40"	90.000
CURVE	97.500	310433.332	5818632.629	7.543	338°20'49.14"	90.000
CURVE	105.000	310430.858	5818639.707	7.489	343°07'17.87"	90.000
CURVE	112.500	310428.982	5818646.967	7.365	347°53'46.60"	90.000
CURVE	120.000	310427.717	5818654.357	7.148	352°40'15.34"	90.000
CURVE	127.500	310427.071	5818661.827	7.184	357°26'44.07"	90.000
CURVE	135.000	310427.049	5818669.325	7.082	2°13'12.81"	90.000
CURVE-TANGENT	138.180	310427.228	5818672.500	6.928	4°14'41.38"	90.000
STRAIGHT	150.000	310428.103	5818684.287	6.265	4°14'41.38"	
STRAIGHT	165.000	310429.214	5818699.246	6.352	4°14'41.38"	
STRAIGHT	180.000	310430.324	5818714.205	6.551	4°14'41.38"	
TANGENT-CURVE	182.688	310430.523	5818716.885	6.572	4°14'41.38"	-50.000
CURVE	185.000	310430.641	5818719.194	6.571	1°35'43.63"	-50.000
CURVE	190.000	310430.530	5818724.191	6.523	355°51'57.15"	-50.000
CURVE	195.000	310429.921	5818729.151	6.464	350°08'10.67"	-50.000
CURVE	200.000	310428.820	5818734.024	6.406	344°24'24.19"	-50.000
CURVE	205.000	310427.237	5818738.767	6.360	338°40'37.71"	-50.000
CURVE	210.000	310425.190	5818743.326	6.360	332°56'51.23"	-50.000
CURVE-TANGENT	211.162	310424.649	5818744.355	6.367	331°36'58.91"	-50.000
TANGENT-CURVE	215.398	310422.635	5818748.082	6.412	331°36'58.91"	75.000
CURVE	217.500	310421.662	5818749.945	6.446	333°13'19.03"	75.000
CURVE	225.000	310418.623	5818756.798	6.622	338°57'05.51"	75.000
CURVE	232.500	310416.284	5818763.921	6.811	344°40'51.99"	75.000
CURVE	240.000	310414.667	5818771.241	6.999	350°24'38.47"	75.000
CURVE-TANGENT	244.918	310414.007	5818776.114	7.114	354°10'04.27"	75.000
INTERSECTION POINT	247.166	310413.779	5818778.350	7.157	354°10'04.27"	
TANGENT-CURVE	247.337	310413.761	5818778.520	7.160	354°10'04.27"	249.995
CURVE	247.500	310413.745	5818778.682	7.163	354°12'18.79"	249.995
CURVE	255.000	310413.100	5818786.154	7.258	355°55'26.86"	249.995
CURVE	262.500	310412.679	5818793.642	7.285	357°38'34.94"	249.995
CURVE	270.000	310412.483	5818801.139	7.288	359°21'43.01"	249.995
CURVE	277.500	310412.512	5818808.639	7.292	1°04'51.09"	249.995
CURVE	285.000	310412.766	5818816.135	7.295	2°47'59.16"	249.995
CURVE	292.500	310413.245	5818823.619	7.298	4°31'07.24"	249.995
CURVE	300.000	310413.947	5818831.086	7.302	6°14'15.32"	249.995
CURVE-TANGENT	301.055	310414.064	5818832.134	7.302	6°28'45.75"	249.995
TANGENT-CURVE	301.055	310414.064	5818832.135	7.302	6°28'45.75"	53.100
CURVE	305.000	310414.655	5818836.034	7.304	10°44'08.36"	53.100
CURVE	310.000	310415.816	5818840.895	7.306	16°07'50.78"	53.100
CURVE	315.000	310417.429	5818845.626	7.308	21°31'33.20"	53.100
CURVE	320.000	310419.480	5818850.184	7.310	26°55'15.62"	53.100
CURVE-TANGENT	324.648	310421.763	5818854.231	7.312	31°56'12.39"	53.100
TANGENT-CURVE	324.650	310421.763	5818854.232	7.312	31°56'12.39"	-67.647
CURVE	325.000	310421.948	5818854.530	7.313	31°38'23.82"	-67.647
CURVE	330.000	310424.411	5818858.880	7.315	27°24'18.13"	-67.647
CURVE	335.000	310426.547	5818863.400	7.317	23°10'12.45"	-67.647
CURVE	340.000	310428.342	5818868.065	7.269	18°56'06.76"	-67.647
CURVE	345.000	310429.789	5818872.850	7.126	14°42'01.08"	-67.647
CURVE	350.000	310430.878	5818877.729	6.937	10°27'55.39"	-67.647
CURVE	355.000	310431.603	5818882.675	6.793	6°13'49.70"	-67.647
CURVE	360.000	310431.962	5818887.661	6.727	1°59'44.02"	-67.647
CURVE	365.000	310431.951	5818892.660	6.695	357°45'38.33"	-67.647
CURVE-TANGENT	367.850	310431.780	5818895.504	6.677	355°20'49.66"	-67.647
TANGENT-CURVE	367.852	310431.780	5818895.506	6.677	355°20'49.66"	53.096
CURVE	370.000	310431.649	5818897.650	6.664	357°39'55.75"	53.096
CURVE	375.000	310431.681	5818902.648	6.617	3°03'39.35"	53.096
CURVE	380.000	310432.182	5818907.621	6.466	8°27'22.95"	53.096
CURVE	385.000	310433.149	5818912.525	6.195	13°51'06.55"	53.096
CURVE	390.000	310434.573	5818917.316	5.803	19°14'50.14"	53.096
CURVE	395.000	310436.441	5818921.952	5.307	24°38'33.74"	53.096
CURVE-TANGENT	397.197	310437.397	5818923.929	5.082	27°00'46.76"	53.096
TANGENT-CURVE	401.803	310439.490	5818928.033	4.650	27°00'46.76"	-75.000
CURVE	405.000	310440.881	5818930.911	4.412	24°34'14.52"	-75.000
CURVE	412.500	310443.653	5818937.876	4.055	18°50'28.04"	-75.000
CURVE	420.000	310445.717	5818945.084	3.982	13°06'41.55"	-75.000
CURVE	427.500	310447.050	5818952.461	4.190	7°22'55.07"	-75.000
CURVE	435.000	310447.641	5818959.935	4.670	1°39'08.59"	-75.000
CURVE-TANGENT	441.253	310447.560	5818966.185	5.129	356°52'32.48"	-75.000
STRAIGHT	450.000	310447.084	5818974.919	5.771	356°52'32.48"	
STRAIGHT	465.000	310446.266	5818989.897	6.872	356°52'32.48"	
TANGENT-CURVE	472.505	310445.857	5818997.391	7.297	356°52'32.48"	100.000
CURVE	480.000	310445.729	5819004.883	7.509	1°10'12.73"	100.000
CURVE-TANGENT	487.186	310446.134	5819012.056	7.526	5°17'15.69"	100.000
STRAIGHT	495.000	310446.854	5819019.837	7.506	5°17'15.69"	
STRAIGHT	510.000	310448.236	5819034.773	7.597	5°17'15.69"	
STRAIGHT	525.000	310449.619	5819049.709	7.803	5°17'15.69"	

HORIZONTAL ALIGNMENT REPORT FOR SHARED PATH SOUTHERN RAMP

POINT TYPE	CHAINAGE	COORDINATES		LEVEL	BEARING DEG MIN SEC
		EASTING	NORTHING		
INTERSECTION POINT	0.000	310394.983	5818752.712	12.648	162°23'20.96"
VC INTERSECTION POINT	8.933	310397.686	5818744.198	12.905	162°23'20.96"
STRAIGHT	15.000	310399.521	5818738.415	12.985	162°23'20.96"
STRAIGHT	30.000	310404.059	5818724.118	12.327	162°23'20.96"
VC INTERSECTION POINT	37.192	310406.235	5818717.264	11.753	162°23'20.96"
VC INTERSECTION POINT	39.692	310406.992	5818714.881	11.690	162°23'20.96"
STRAIGHT	45.000	310408.597	5818709.821	11.238	162°23'20.96"
STRAIGHT	60.000	310413.136	5818695.524	9.961	162°23'20.96"
VC INTERSECTION POINT	65.825	310414.898	5818689.972	9.465	162°23'20.96"
VC INTERSECTION POINT	68.325	310415.655	5818687.590	9.403	162°23'20.96"
STRAIGHT	75.000	310417.674	5818681.227	8.838	162°23'20.96"
STRAIGHT	90.000	310422.212	5818666.930	7.569	162°23'20.96"
STRAIGHT	105.000	310426.751	5818652.633	7.213	162°23'20.96"
STRAIGHT	120.000	310431.289	5818638.336	7.504	162°23'20.96"
INTERSECTION POINT	120.418	310431.415	5818637.938	7.507	162°23'20.96"

HORIZONTAL ALIGNMENT REPORT FOR SHARED PATH SOUTHERN RAMP

POINT TYPE	CHAINAGE	COORDINATES		LEVEL	BEARING DEG MIN SEC
		EASTING	NORTHING		
INTERSECTION POINT	0.000	310394.983	5818752.712	12.648	162°23'20.96"
STRAIGHT	15.000	310399.521	5818738.415	12.961	162°23'20.96"
STRAIGHT	30.000	310404.059	5818724.118	12.215	162°23'20.96"
VC INTERSECTION POINT	37.192	310406.235	5818717.264	11.608	162°23'20.96"
VC INTERSECTION POINT	39.692	310406.992	5818714.881	11.608	162°23'20.96"
STRAIGHT	45.000	310408.597	5818709.821	11.159	162°23'20.96"
STRAIGHT	60.000	310413.136	5818695.524	9.890	162°23'20.96"
VC INTERSECTION POINT	65.825	310414.898	5818689.972	9.397	162°23'20.96"
VC INTERSECTION POINT	68.325	310415.655	5818687.590	9.397	162°23'20.96"
STRAIGHT	75.000	310417.674	5818681.227	8.833	162°23'20.96"
STRAIGHT	90.000	310422.212	5818666.930	7.568	162°23'20.96"
STRAIGHT	105.000	310426.751	5818652.633	7.213	162°23'20.96"
STRAIGHT	120.000	310431.289	5818638.336	7.504	162°23'20.96"
INTERSECTION POINT	120.418	310431.415	5818637.938	7.507	162°23'20.96"

Drawing File: C:\124_Sydney\1\2050-River Valley - Stage 7A\Drawings\03 -
 Drawing No: 12050SOP03 - Jacobs Burns
 Date/Time: Fri Jul 27, 2018 - 6:13pm - Jacobs Burns

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 16313781
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943527
 Audited R.MASON
 Date 17/08/17
 AN 704980
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

REV	DESCRIPTION	DATE	APPD.
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS		

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Coords: MGA
 Levels: AHD
 Scale @ A1/A3

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 SET OUT DETAILS
 SHEET 03 OF 03
 Drawing No. 12050SOP03 Rev 0
 Sheet No. 12 CONSTRUCTION

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LINEMARKING LEGEND

- GIVE WAY LINE
PAINT 600mm, GAP 600mm 300mm WIDE
- CONTINUITY LINE
PAINT 600mm, GAP 600mm 150mm WIDE
- DIVIDING LINE
PAINT 3m, GAP 9m, 100mm WIDE
- LANE LINE
PAINT 100mm WIDE (UNBROKEN)
- OK OK OK ONE-WAY RAISED REFLECTIVE PAVEMENT MARKERS
- OK OK OK TWO-WAY RAISED REFLECTIVE PAVEMENT MARKERS

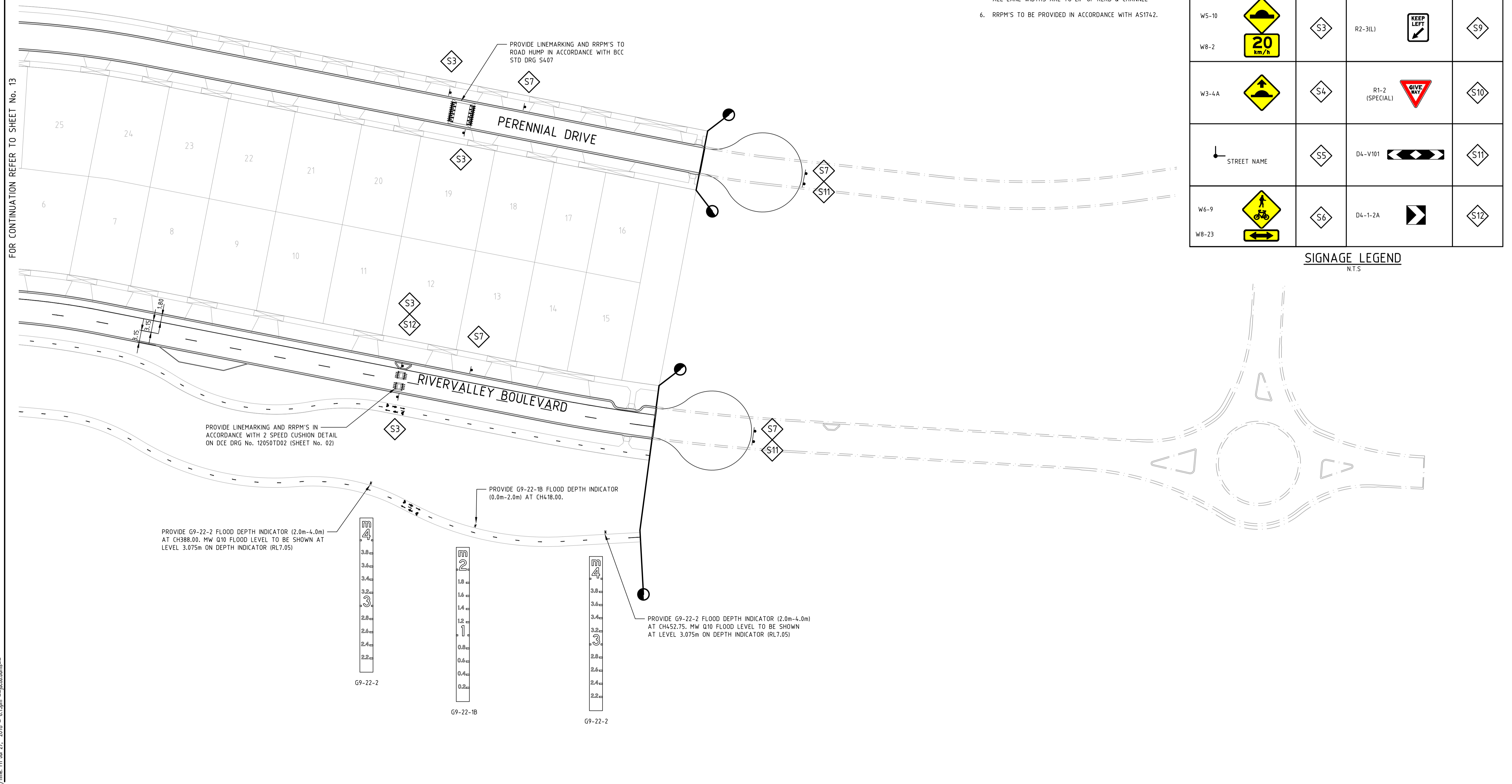
NOTES:

1. ALL WORKS TO BE IN ACCORDANCE WITH AS1742. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH VICROADS LINEMARKING AND TRAFFIC MANUALS.
2. LINEMARKING SET-OUT SHALL BE INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.
3. ALL LINEMARKING TO BE DEGADUR OR SIMILAR APPROVED LONGLIFE MATERIAL.
4. ANY OBSOLETE LINEMARKING IS TO BE REMOVED BY GRINDING, STRIPPING OR THE APPLICATION OF BITUMEN BINDER AND GRIT PRIOR TO "NEW" LINEMARKING BEING PLACED.
5. ALL RADII ARE TO LIP OF CHANNEL OR LINE OF KERB. ALL LANE WIDTHS ARE TO LIP OF KERB & CHANNEL.
6. RRPMS TO BE PROVIDED IN ACCORDANCE WITH AS1742.

SIGN	TYPE	SIGN	TYPE		
R8-2		S1	G9-18		S7
R8-2		S2	G9-21 (MODIFIED)		S8
R7-4		S3	R2-3(L)		S9
W5-10		S4	R1-2 (SPECIAL)		S10
W8-2		S5	D4-V101		S11
W3-4A		S6	D4-1-2A		S12
W6-9					
W8-23					

SIGNAGE LEGEND
N.T.S.

FOR CONTINUATION REFER TO SHEET No. 13



Drawing File: C:\Users\jburns\OneDrive\Documents\12050-River Valley - Stage 7A\8\Locat\02\12050LM02.dwg
Drawing Name: 12050LM02
Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--

0	CONSTRUCTION ISSUE	25/09/17	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
AN 1631383
Verified T.THAVENDRAN
Date 20/07/17
AN 943529
Audited R. MASON
Date 17/08/17
AN 704982
Approved T.LIAKOPOULOS
Date 04/09/17
AN 888081

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Coords: MGA
Levels: AHD

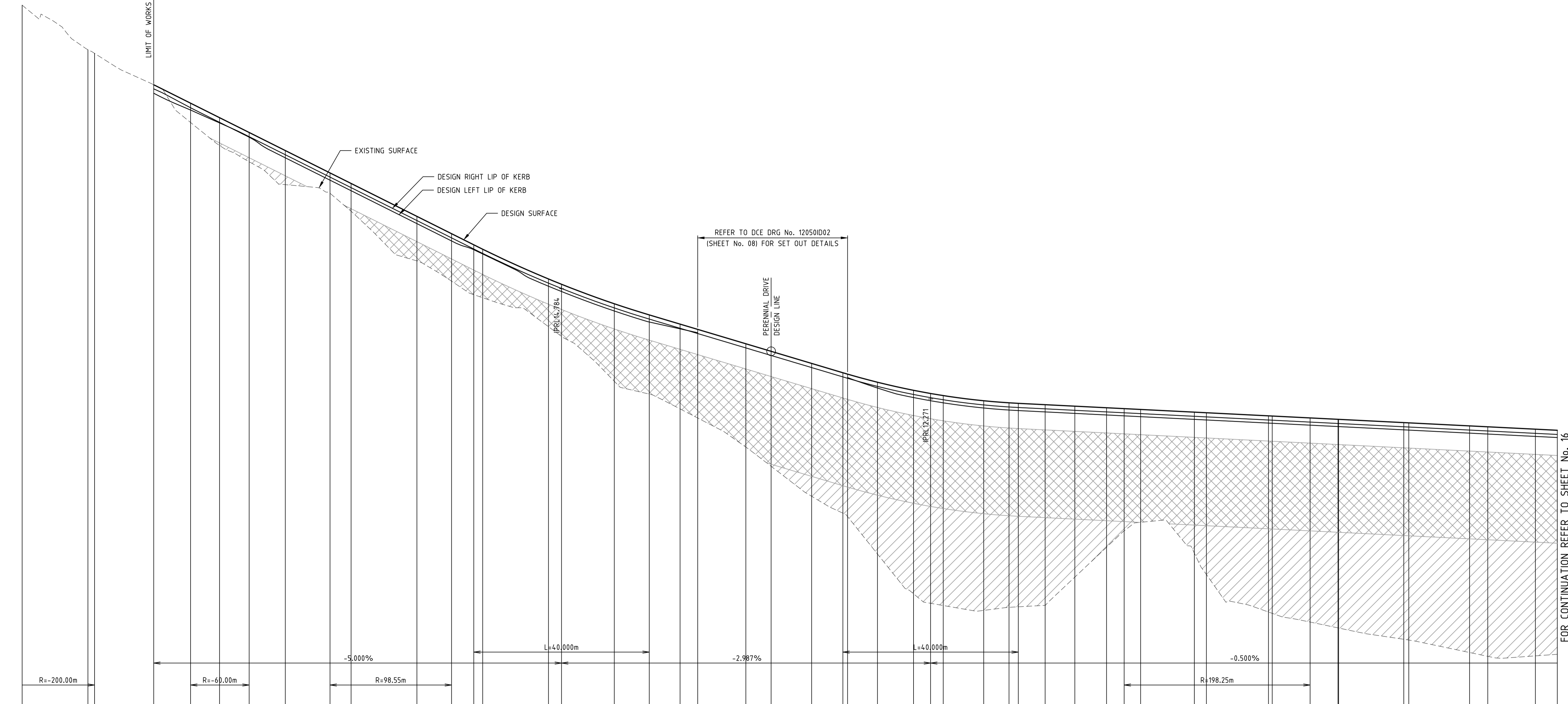
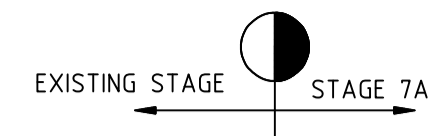
Hor 1:500 0m 5m 10m 20m 30m

Scale @ A1/A3 1:500/1:1000

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
SIGNAGE AND LINEMARKING PLAN
SHEET 02 OF 02
Drawing No. 12050LM02 Rev 0
Sheet No. 14 CONSTRUCTION

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Project File: C:\p12050\river valley - stage 7a.dwg
 Drawing Title: LONGITUDINAL SECTION - RIVERVALLEY BOULEVARD DESIGN LINE
 Date/Time: Fri Jul 27, 2018 - 6:13pm - jacob.burns



CHAINAGE	DESIGN SURFACE RL	EXISTING SURFACE RL	DESIGN LEFT KERB RL	DESIGN RIGHT KERB RL
-30.00		21.248		
-15.00		20.231		
-13.63		20.169		
0.00	19.433	19.434	19.340	19.240
8.50	19.013	18.573	18.908	18.857
15.00	18.683	18.049	18.577	18.563
21.75	18.345	17.678	18.238	18.250
30.00	17.933	17.156	17.768	17.838
40.19	17.423	16.959	17.258	17.328
45.00	17.183	16.551	17.008	17.088
60.00	16.433	15.417	16.268	16.338
67.90	16.038	14.956	15.873	15.943
72.87	15.784	14.618	15.672	15.689
75.00	15.684	14.579	15.575	15.589
90.00	15.006	13.918	14.841	14.911
92.97	14.885	13.697	14.720	14.790
105.00	14.441	12.674	14.276	14.346
112.97	14.187	12.382	14.025	14.092
120.00	13.977	12.044	13.869	13.882
124.02	13.857	11.836	13.780	13.762
135.00	13.529	11.172	13.434	13.424
140.75	13.357	10.736	13.262	13.262
150.00	13.081	10.052	12.986	12.986
157.11	12.869	9.667	12.773	12.773
158.19	12.837	9.589	12.757	12.757
165.00	12.652	8.737	12.520	12.557
173.23	12.468	7.829	12.303	12.373
177.11	12.395	7.612	12.220	12.300
180.00	12.347	7.562	12.182	12.252
189.23	12.230	7.451	12.065	12.135
195.00	12.183	7.570	12.018	12.088
197.11	12.171	7.532	12.006	12.076
203.23	12.140	7.566	11.975	12.045
210.00	12.106	8.210	11.941	12.011
217.23	12.070	8.891	11.905	11.975
221.24	12.050	9.265	11.885	11.955
225.00	12.031	9.458	11.866	11.936
231.25	11.970	8.748	11.805	11.875
240.00	11.956	8.270	11.791	11.861
254.45	11.886	7.419	11.721	11.791
255.00	11.881	7.389	11.716	11.786
263.64	11.838	7.185	11.673	11.743
270.00	11.806	7.052	11.641	11.711
270.04	11.806	7.059	11.641	11.711
285.00	11.731	6.792	11.566	11.636
286.14	11.726	6.775	11.561	11.631
300.00	11.656	6.490	11.491	11.561
304.14	11.636	6.403	11.471	11.541
315.00	11.581	6.414	11.416	11.486
320.00	11.556	6.450	11.391	11.461

LONGITUDINAL SECTION - RIVERVALLEY BOULEVARD DESIGN LINE

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631384
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943530
 Audited R.MASON
 Date 17/08/17
 AN 704983
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

RIVER VALLEY

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 LONGITUDINAL SECTIONS
 SHEET 01 OF 05
 Drawing No. 12050LS01 Rev 1

Coords: MGA
 Levels: AHD

Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000

Sheet No. 15 **CONSTRUCTION**

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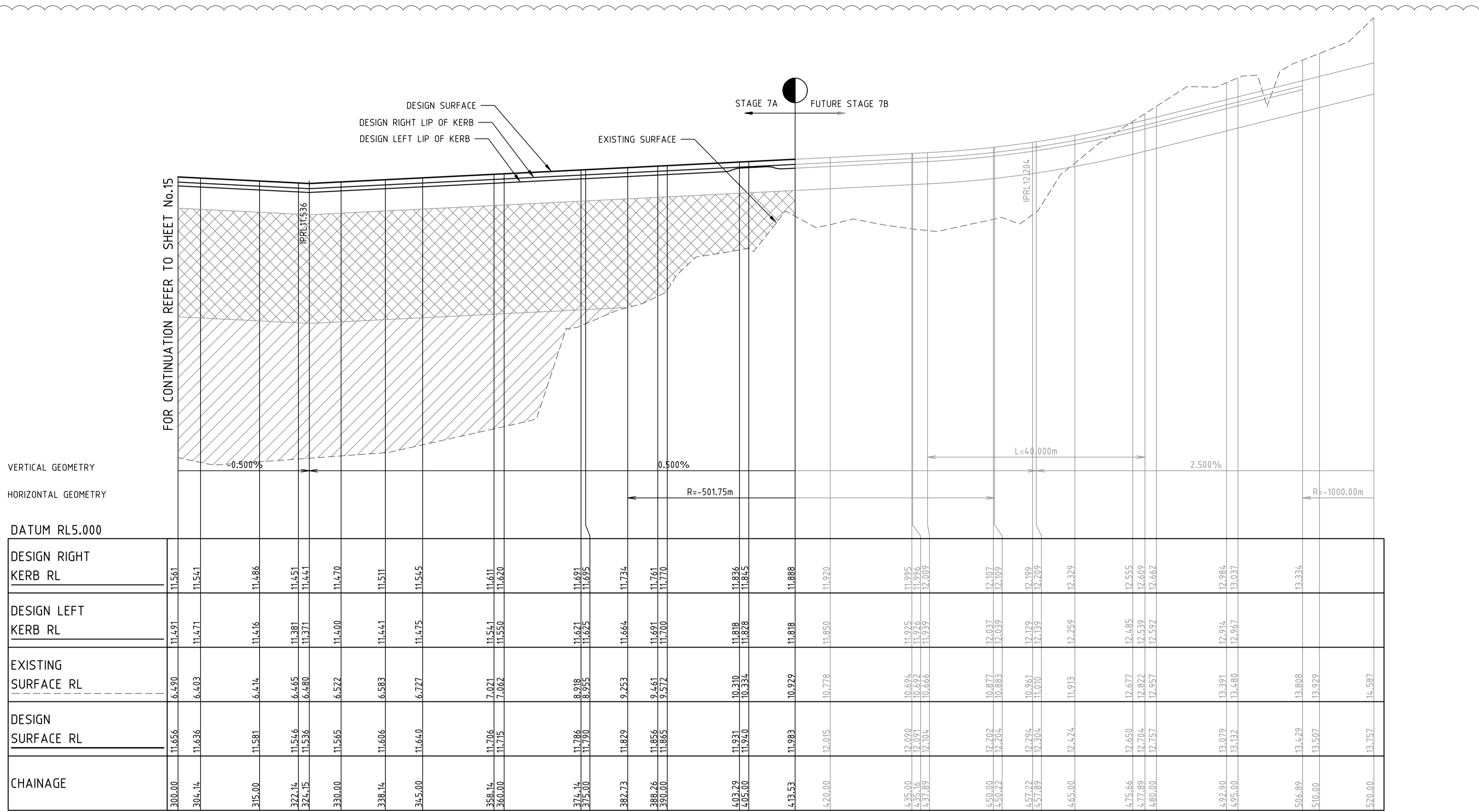
ABN 78 429 221 049

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FOR CONTINUATION REFER TO SHEET No. 16

Project File: C:\Users\jacob.burns\OneDrive - Jacobs\Documents\12050-River Valley - Stage 7A_8\Coord\001
 Drawing Title: RIVER VALLEY ESTATE - STAGE 7A - LONGITUDINAL SECTION
 Date/Time: Fri Jul 27, 2018 - 6:13pm - jacob.burns



VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM RL5.000

DESIGN RIGHT KERB RL	11.561	11.551	11.486	11.451	11.441	11.470	11.511	11.515	11.611	11.620	11.691	11.695	11.724	11.761	11.770	11.826	11.826	11.888	11.920	12.007	12.107	12.109	12.189	12.209	12.329	12.495	12.555	12.609	12.662	12.984	13.037	13.334
DESIGN LEFT KERB RL	11.491	11.471	11.416	11.381	11.371	11.400	11.441	11.475	11.511	11.530	11.621	11.625	11.664	11.691	11.700	11.810	11.818	11.850	11.850	12.037	12.039	12.139	12.139	12.259	12.424	12.495	12.539	12.592	12.914	12.967	13.268	
EXISTING SURFACE RL	6.450	6.403	6.414	6.465	6.480	6.522	6.583	6.727	7.021	7.062	8.210	8.253	9.253	9.461	9.572	10.310	10.334	10.778	10.778	10.877	10.883	10.961	11.010	11.913	12.424	12.677	12.822	12.857	13.391	13.480	13.808	
DESIGN SURFACE RL	11.655	11.636	11.581	11.546	11.536	11.565	11.606	11.640	11.706	11.715	11.786	11.790	11.829	11.856	11.865	11.940	11.940	12.015	12.015	12.202	12.204	12.284	12.304	12.424	12.650	12.704	12.757	13.079	13.132	13.429		
CHAINAGE	300.00	304.14	315.00	322.14	324.15	330.00	338.14	345.00	358.14	360.00	374.14	375.00	382.73	388.26	390.00	402.20	405.00	413.53	420.00	450.00	450.42	457.72	457.89	465.00	475.66	477.89	480.00	492.90	495.00	506.89	510.00	520.00

LONGITUDINAL SECTION - RIVERVALLEY BOULEVARD DESIGN LINE

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS	DATE	APPD.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631385
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943531
 Audited R. MASON
 Date 17/08/17
 AN 704984
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

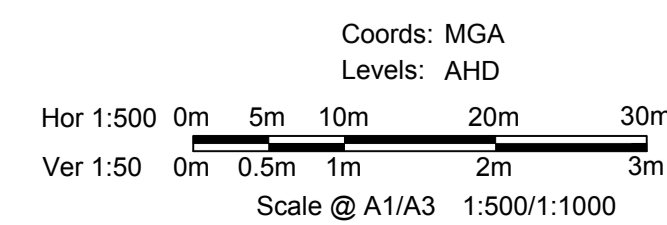
NOTE
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 LONGITUDINAL SECTIONS
SHEET 02 OF 05
Drawing No. 12050LS02 Rev 1



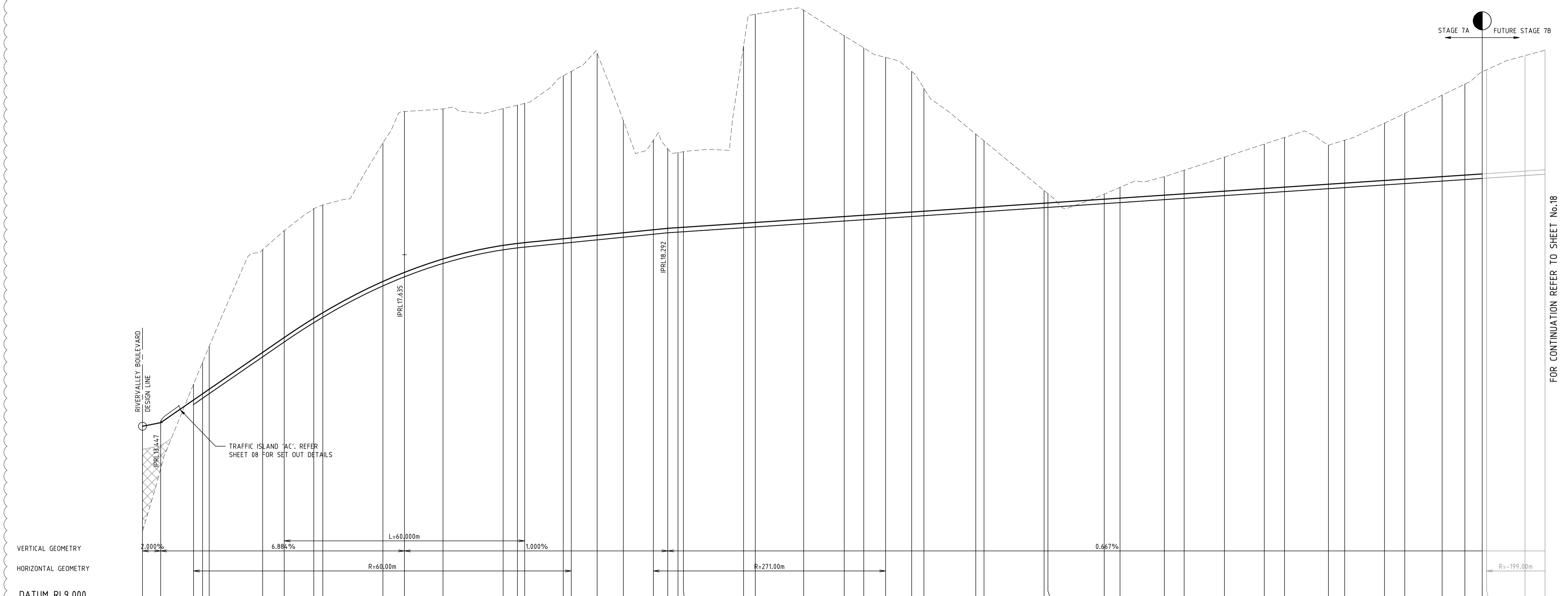
ABN 78 429 221 049
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 E info@dceng.com.au



Coords: MGA
 Levels: AHD
 Sheet No. 16 CONSTRUCTION
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\Users\jburns\OneDrive - River Valley - Stage 7A\8\Road\001
 Project Name: RIVER VALLEY ESTATE - STAGE 7A
 Date/Time: Fri Jul 27, 2018 - 6:13pm - jacob.burns



CHAINAGE	DESIGN SURFACE RL	EXISTING SURFACE RL	DESIGN LEFT KERB RL	DESIGN RIGHT KERB RL
0.00	13.356	10.736		
4.54	13.447	12.301		
12.75	16.012	14.608	13.991	
15.00	16.167	14.954	14.056	
16.65	16.281	15.350	14.169	
30.00	15.200	17.759	15.088	15.088
35.37	15.570	18.235	15.458	15.458
42.75	16.051	18.786	15.940	15.940
45.00	16.187	18.874	16.075	16.075
60.00	16.968	20.471	16.856	16.856
65.37	17.194	21.206	17.082	17.082
75.00	17.528	21.249	17.416	17.416
90.00	17.867	21.276	17.756	17.756
93.58	17.916	21.362	17.804	17.804
95.21	17.935	21.495	17.823	17.823
105.00	18.031	22.093	17.920	17.920
107.00	18.051	22.204	17.940	17.940
113.46	18.116	22.654	18.004	18.004
120.00	18.181	20.979	18.070	18.070
127.49	18.256	20.489	18.145	18.145
131.08	18.292	20.280	18.180	18.180
133.63	18.309	20.184	18.198	18.198
135.00	18.318	20.205	18.207	18.207
150.00	18.418	22.837	18.307	18.307
152.93	18.438	23.633	18.326	18.326
165.00	18.518	23.736	18.407	18.407
175.12	18.586	23.101	18.474	18.474
180.00	18.618	22.794	18.507	18.507
185.44	18.655	22.554	18.543	18.543
191.95	18.698	22.203	18.586	18.586
195.00	18.719	21.783	18.607	18.607
207.95	18.805	20.642	18.693	18.693
210.00	18.819	20.472	18.707	18.707
225.00	18.919	19.234	18.807	18.807
225.95	18.925	19.156	18.813	18.813
240.00	19.019	19.145	18.907	18.907
243.95	19.045	19.313	18.933	18.933
255.00	19.119	19.581	19.007	19.007
259.95	19.152	19.739	19.040	19.040
270.00	19.219	20.067	19.107	19.107
279.95	19.285	20.392	19.173	19.173
285.00	19.319	20.557	19.207	19.207
295.95	19.392	20.364	19.280	19.280
300.00	19.419	20.488	19.307	19.307
309.94	19.485	20.914	19.374	19.374
315.00	19.519	21.157	19.407	19.407
324.32	19.581	21.611	19.469	19.469
330.00	19.619	21.888	19.507	19.507
334.32	19.648	22.198	19.536	19.536
335.43	19.655	22.245	19.543	19.543
345.00	19.719	22.584	19.607	19.607
350.00	19.752	22.732	19.641	19.641

LONGITUDINAL SECTION - PERENNIAL DRIVE DESIGN LINE

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS	DATE	APP'D.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631386
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943532
 Audited R.MASON
 Date 17/08/17
 AN 704985
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL < 1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

RIVER VALLEY

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 LONGITUDINAL SECTIONS
 SHEET 03 OF 05
 Drawing No. 12050LS03 Rev 1

Coords: MGA
 Levels: AHD

Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000

Sheet No. 17 **CONSTRUCTION**

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 ABN 78 429 221 049

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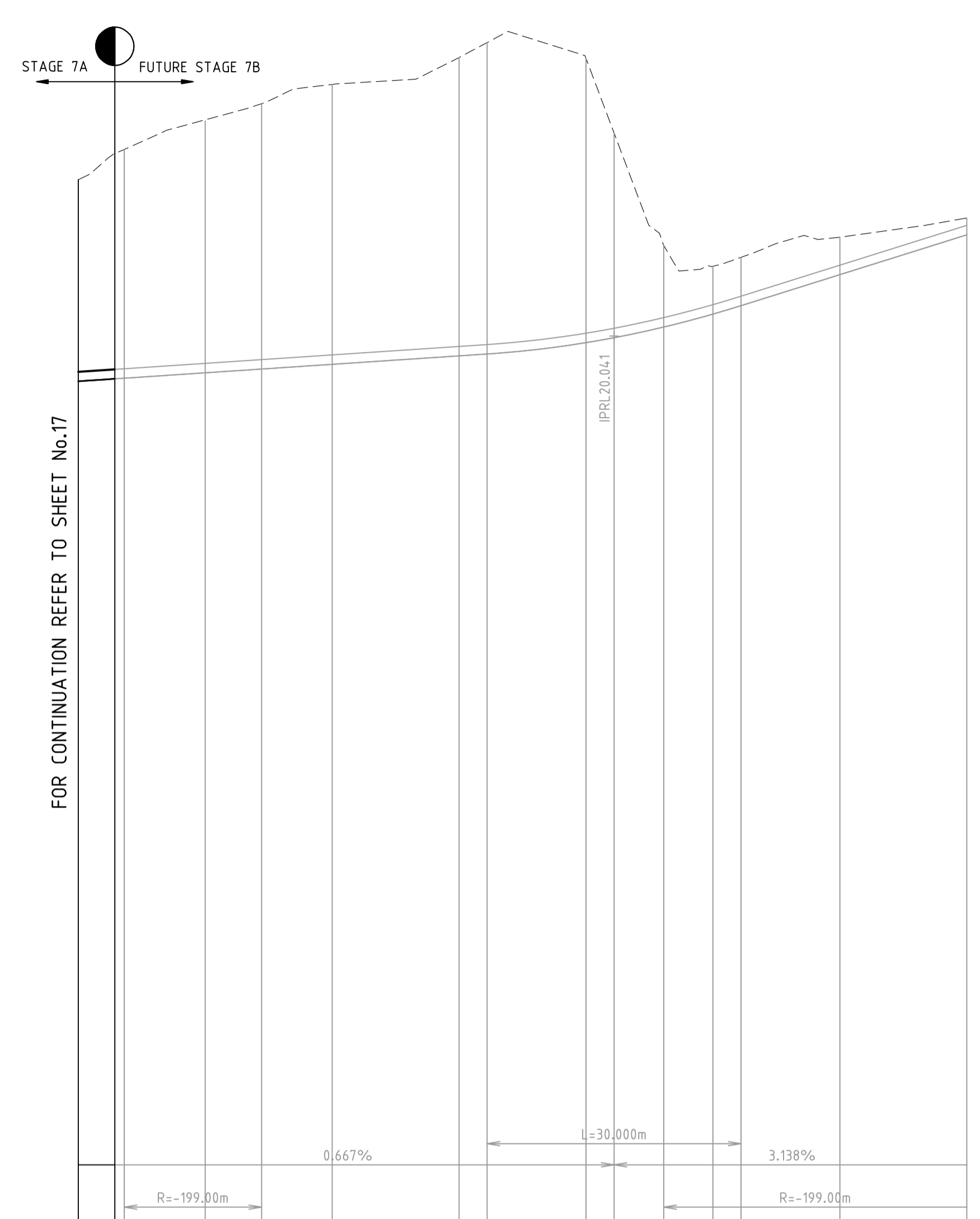
ABN 78 429 221 049

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FOR CONTINUATION REFER TO SHEET No.18

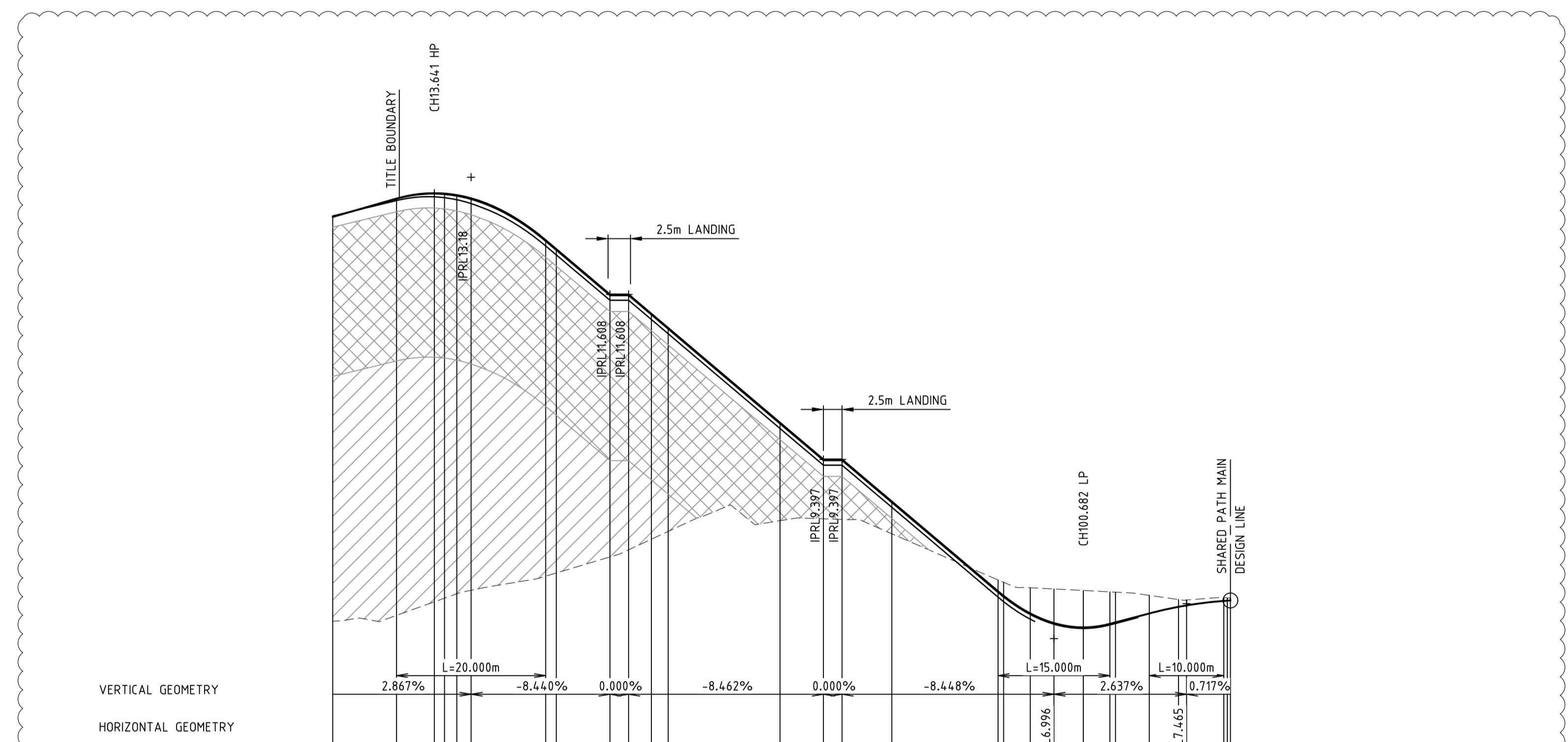
Drawing File: C:\Users\jburns\OneDrive - Jacobs\Documents\12050-River Valley - Stage 7A_8\Work\04\12050LS04.dwg
 Date/Time: Fri Jul 27, 2018 - 6:13pm - jacoburns



DATUM RL9.000

DESIGN RIGHT KERB RL	19.507	19.536	19.553	19.607	19.652	19.707	19.844	20.022	20.148	20.301	20.400	20.767	21.238
DESIGN LEFT KERB RL	19.507	19.536	19.553	19.607	19.652	19.707	19.844	20.022	20.148	20.301	20.400	20.767	21.238
EXISTING SURFACE RL	21.888	22.198	22.425	22.584	22.787	23.015	23.322	22.440	21.113	20.862	20.567	21.209	21.437
DESIGN SURFACE RL	19.619	19.648	19.655	19.719	19.763	19.819	20.075	20.134	20.260	20.412	20.512	20.879	21.349
CHAINAGE	330.00	334.32	335.43	345.00	351.66	360.00	390.00	393.32	395.19	405.00	408.32	420.00	435.00

LONGITUDINAL SECTION - PERENNIAL DRIVE DESIGN LINE



DATUM RL5

DESIGN BACK OF SHARED PATH RL	12.660	12.867	12.917	12.950	12.917	11.531	11.531	11.531	11.531	11.531	11.531	11.531	11.531
DESIGN FACE OF SHARED PATH RL	12.660	12.867	12.917	12.950	12.917	11.531	11.531	11.531	11.531	11.531	11.531	11.531	11.531
EXISTING SURFACE RL	7.228	7.307	7.489	7.538	7.587	7.833	7.876	7.833	7.833	7.833	7.833	7.833	7.833
DESIGN SURFACE RL	12.648	12.893	12.966	12.961	12.951	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608
CHAINAGE	0.00	8.57	13.64	15.00	16.51	28.57	30.00	37.19	39.69	42.75	45.00	60.00	65.83

LONGITUDINAL SECTION - SHARED PATH SOUTHERN RAMP DESIGN LINE

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS	DATE	APPD.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631387
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943533
 Audited R. MASON
 Date 17/08/17
 AN 704986
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

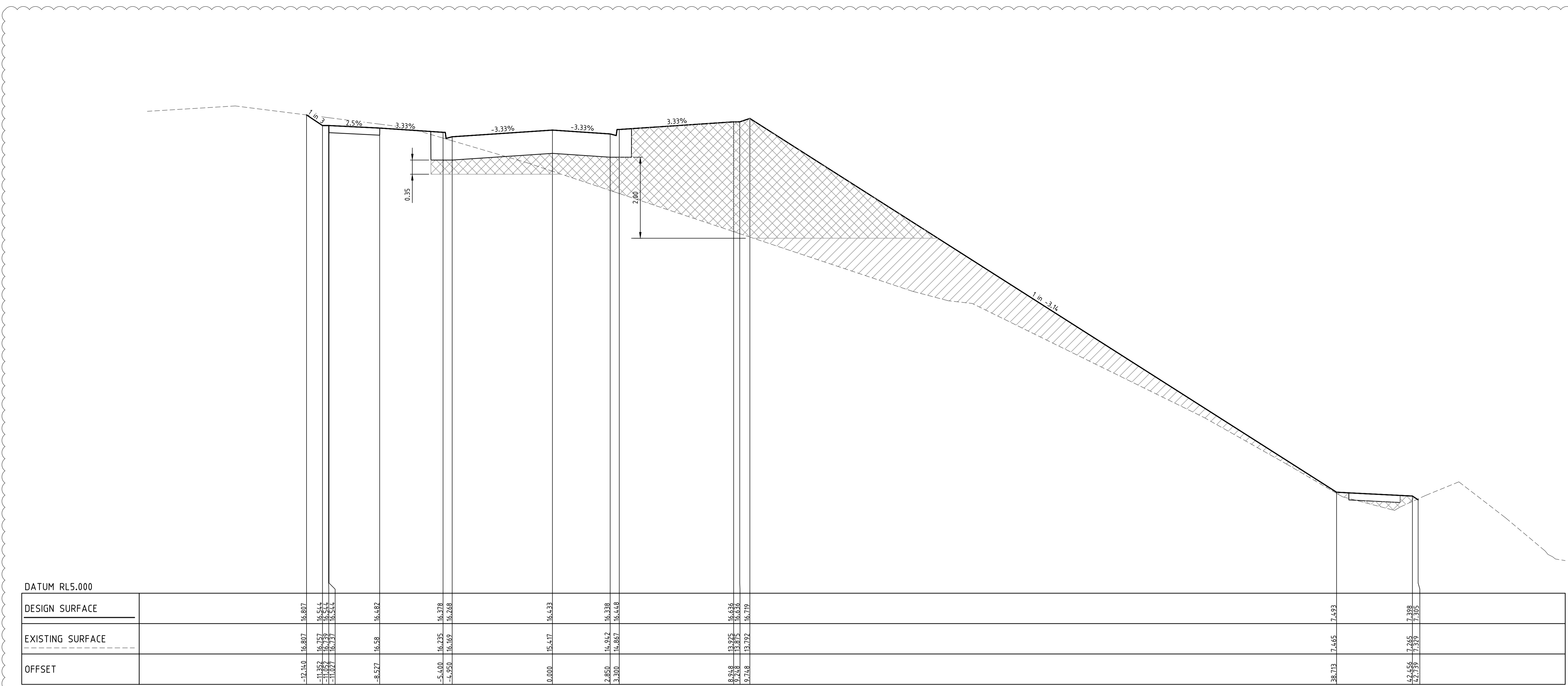
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL < 1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

RIVER VALLEY
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 LONGITUDINAL SECTIONS
SHEET 04 OF 05
 Drawing No. **12050LS04** Rev 1
 Sheet No. 18 **CONSTRUCTION**
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Drawing File: C:\24_Sydney\1\2050-River Valley - Stage 7A\8\Road\04
 Drawing No: 12050XS04
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



CH 60.000

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS, REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

NO	DESCRIPTION	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL
AMENDMENTS		DATE	APP'D.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631392
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943538
 Audited R. MASON
 Date 17/08/17
 AN 704991
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98%
 SDD UNDER LEVEL 1

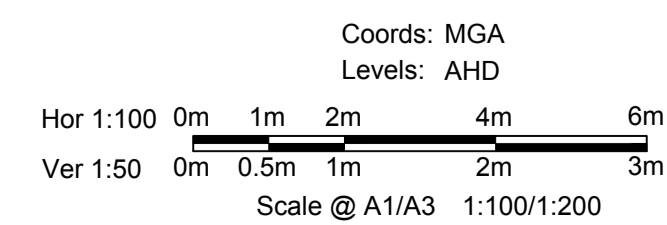
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL < 1.5%. COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
 SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.



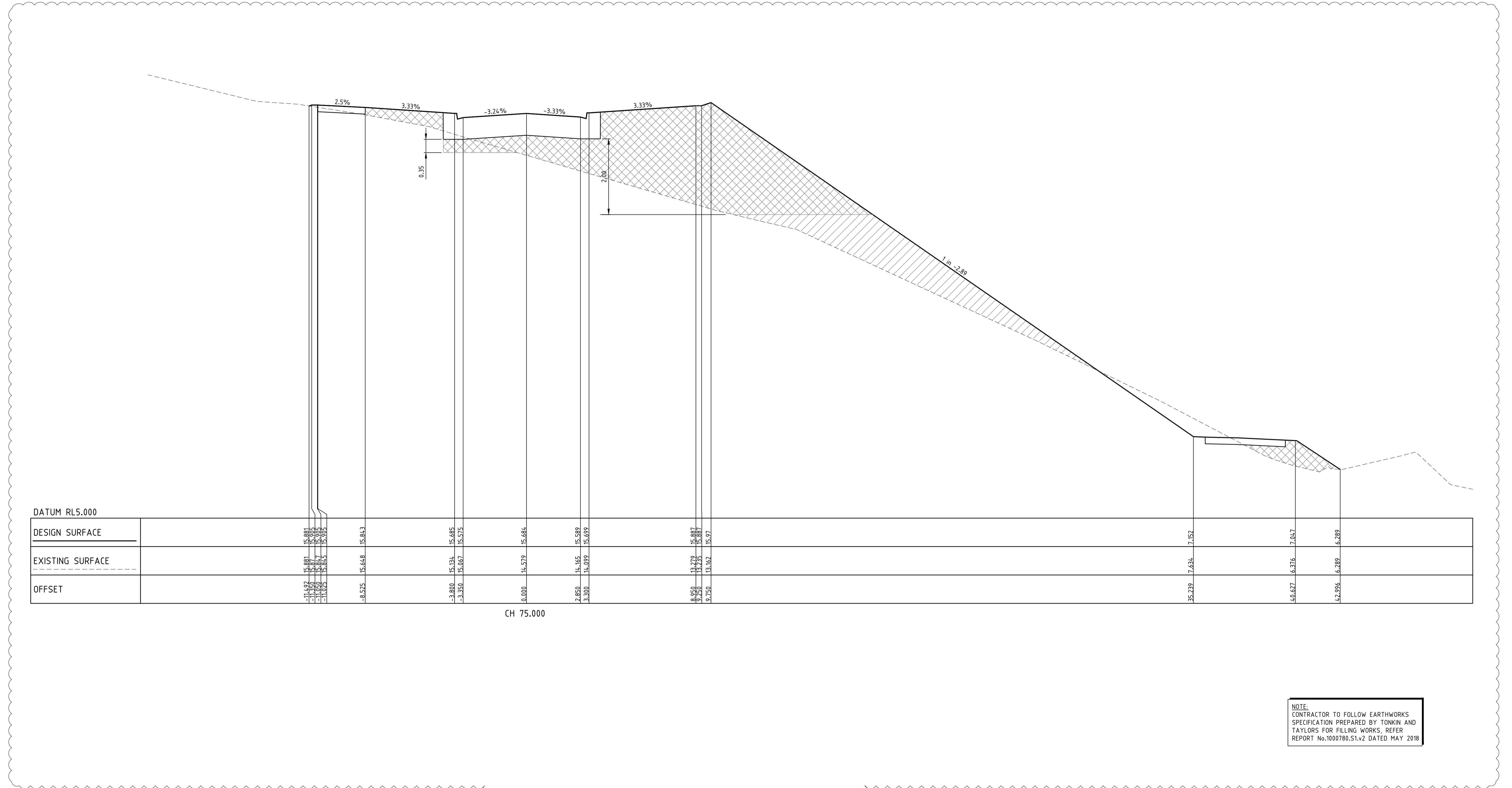
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 04 OF 20
 Drawing No. 12050XS04 Rev 1
 Sheet No. 23 CONSTRUCTION
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12050-River Valley - Stage 7A.dwg (V01)
 Drawing No: 12050XS05
 Date/Time: Fri Jul 27, 2018 - 6:13pm - jacob.burns



	DATUM RL5.000										
DESIGN SURFACE											
EXISTING SURFACE											
OFFSET											

CH 75.000

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS. REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631393
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943539
 Audited R. MASON
 Date 17/08/17
 AN 704992
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

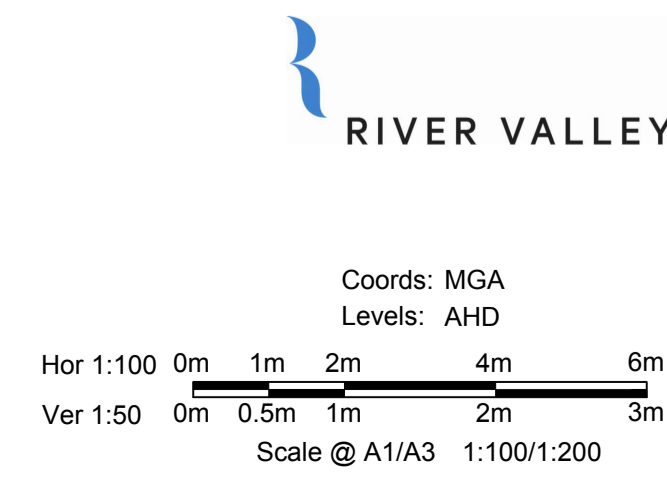
LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98%
 SDD UNDER LEVEL 1

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
 SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL <1.5%. COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.

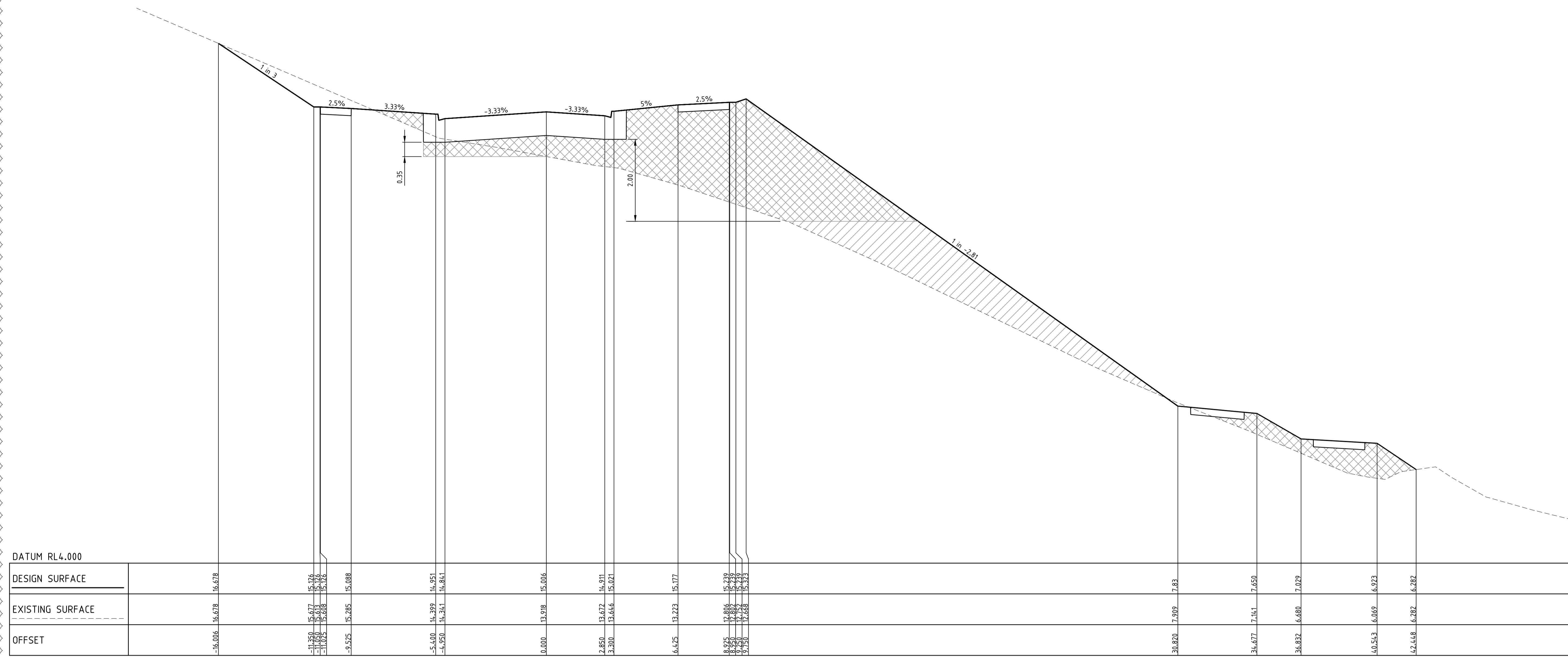


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 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
 SHEET 05 OF 20
 Drawing No. 12050XS05 Rev 1
 Sheet No. 24 CONSTRUCTION
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 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12650-river valley - Stage 7A.dwg (V01)
 Drawing No: 12050XS06
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



	CH 90.000	90.500	91.000	91.500	92.000	92.500	93.000	93.500	94.000	94.500	95.000	95.500	96.000	96.500	97.000	97.500	98.000	98.500	99.000	99.500
DATUM RL4.000																				
DESIGN SURFACE	16.678	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176
EXISTING SURFACE	16.678	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176	15.176
OFFSET	-16.006	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850	-11.850

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS, REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631394
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943540
 Audited R. MASON
 Date 17/08/17
 AN 704993
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98%
 SDD UNDER LEVEL 1

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
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NOTE:
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 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.

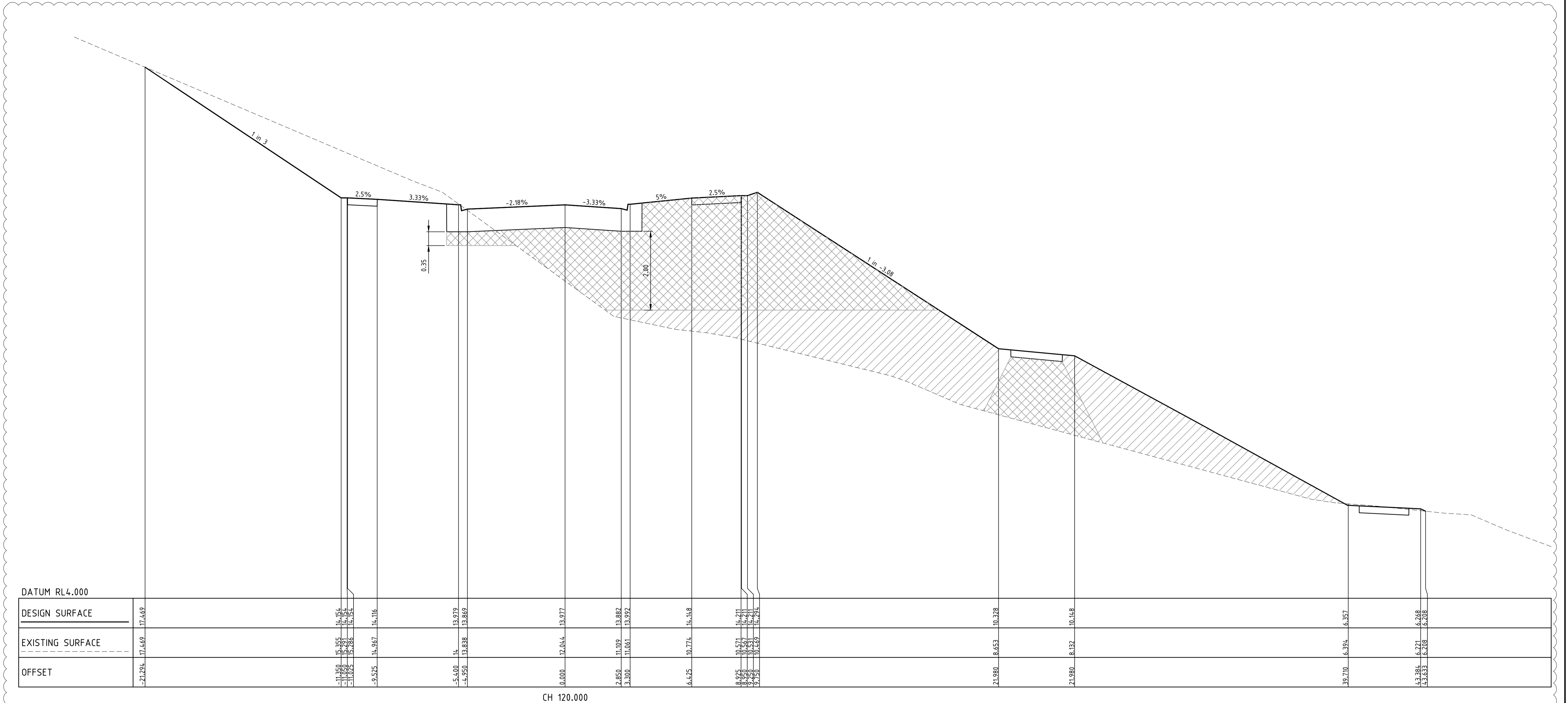
RIVER VALLEY
 Coords: MGA
 Levels: AHD
 Hor 1:100 0m 1m 2m 4m 6m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:100/1:200

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 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 06 OF 20
 Drawing No. 12050XS06 Rev 1
 Sheet No. 25 CONSTRUCTION
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\124_Sydney\1\12050-River Valley - Stage 7A\8\Road\081
 Drawing No: 12050XS08
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS. REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

NO	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631396
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943542
 Audited R. MASON
 Date 17/08/17
 AN 704995
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

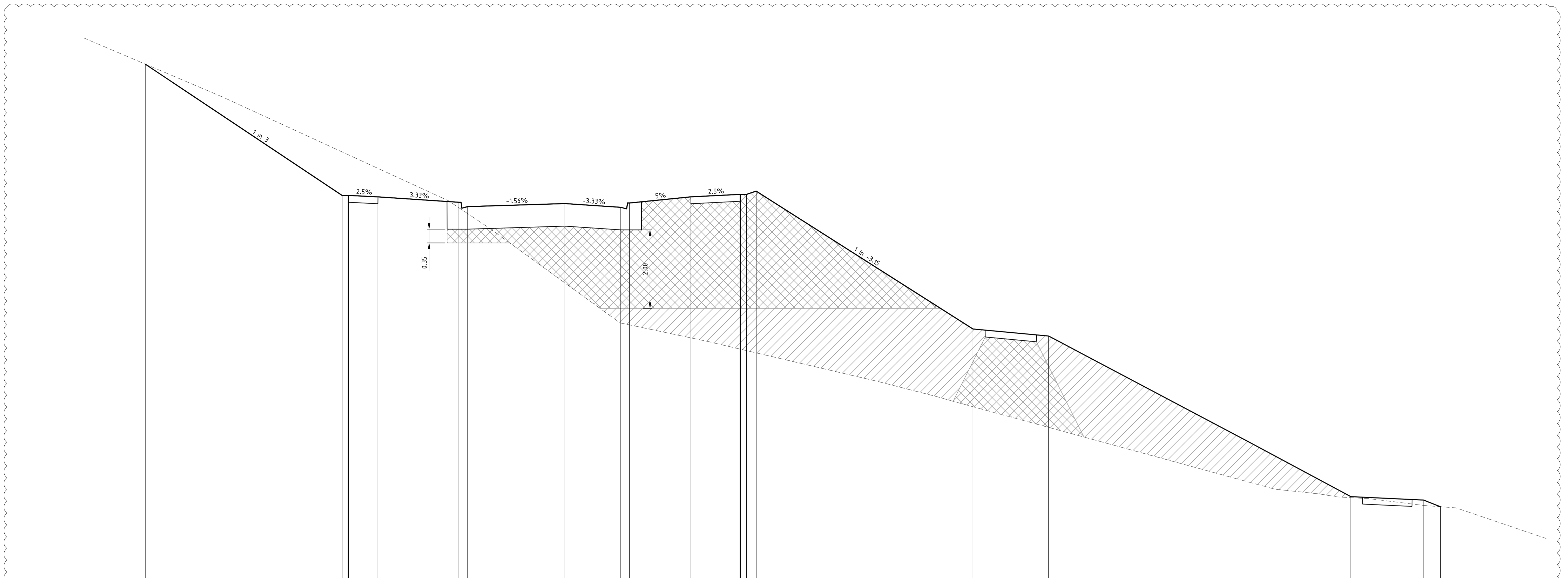
RIVER VALLEY
 Coords: MGA
 Levels: AHD
 Hor 1:100 0m 1m 2m 4m 6m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:100/1:200

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 08 OF 20
 Drawing No. 12050XS08 Rev 1
 Sheet No. 27 CONSTRUCTION
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 VICTORIA
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12650-River Valley - Stage 7A.dwg (V01)
 Drawing No: 12050XS09
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



	17.408	16.065	14.027	13.89	13.78	13.657	13.762	13.672	14.02	14.483	10.483	6.394	6.305	6.137
DESIGN SURFACE	17.408	16.065	14.027	13.89	13.78	13.657	13.762	13.672	14.02	14.483	10.483	6.394	6.305	6.137
EXISTING SURFACE	17.408	15.172	14.753	13.75	13.6	13.657	13.672	13.672	14.02	14.483	10.483	6.367	6.169	6.137
OFFSET	-21.381	-11.351	-9.525	-5.100	-4.950	0.000	2.850	3.300	6.425	8.925	20.794	24.652	40.050	44.613

CH 124.023

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS, REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631397
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943543
 Audited R. MASON
 Date 17/08/17
 AN 704996
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98%
 SDD UNDER LEVEL 1

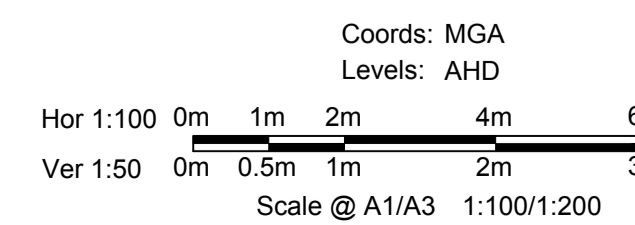
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
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 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
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 SHALL BE LOOSENEED OR FLATTENED.

NOTE:
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 BATTER TREATMENT.



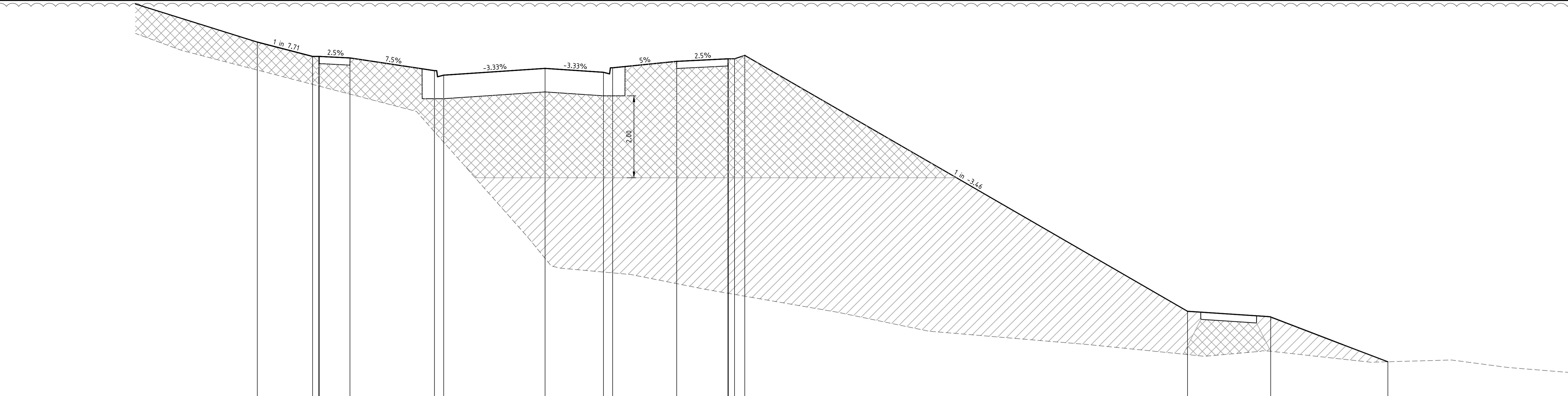
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 SUNSHINE NORTH
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SHEET 09 OF 20
 Drawing No. 12050XS09 Rev 1
 Sheet No. 28 CONSTRUCTION
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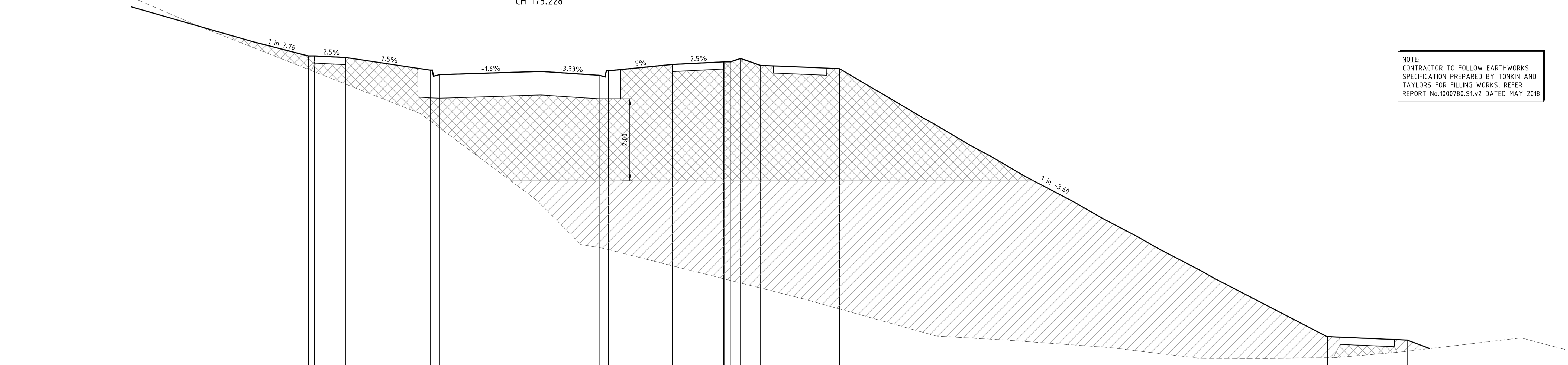
Drawing File: C:\124_Sydney\1\12650-River Valley - Stage 7A\8\Road\001
 Drawing No: 12050XS10
 Date/Time: Fri, Jul 27, 2018 - 6:13pm - jacob.burns



DATUM RL4.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
13.11	12.427	-14.050
12.76	12.076	-11.350
12.76	12.037	-11.050
12.722	12.034	-11.025
12.722	11.839	-9.525
12.443	10.971	-5.400
12.303	10.666	-4.950
12.448	7.829	0.000
12.373	7.495	2.850
12.483	7.475	3.300
12.639	7.713	6.425
12.701	6.978	8.925
12.701	6.276	8.925
12.785	6.207	9.750
6.537	5.481	31.365
6.398	6.561	35.425
5.305	5.305	44.147

CH 173.228



DATUM RL5.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
13.562	13.42	-14.050
13.24	12.889	-11.350
13.24	12.872	-11.050
13.177	12.874	-11.025
13.177	12.526	-9.525
12.867	11.629	-5.400
12.757	11.461	-4.950
12.837	9.589	0.000
12.742	8.533	2.850
12.852	8.487	3.300
13.008	8.089	6.425
13.07	7.773	8.925
13.07	7.177	8.925
13.154	7.132	9.450
13.154	7.669	9.750
12.984	7.516	10.728
12.902	7.035	14.585
6.360	6.847	38.412
6.275	6.004	42.289
6.089	6.069	43.401

CH 158.186

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631398
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943544
 Audited R. MASON
 Date 17/08/17
 AN 704997
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
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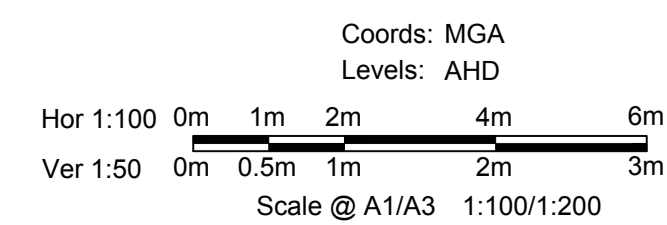
NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



ATLANTIC LINK PTY LTD
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 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
 SHEET 10 OF 20
 Drawing No. 12050XS10 Rev 1



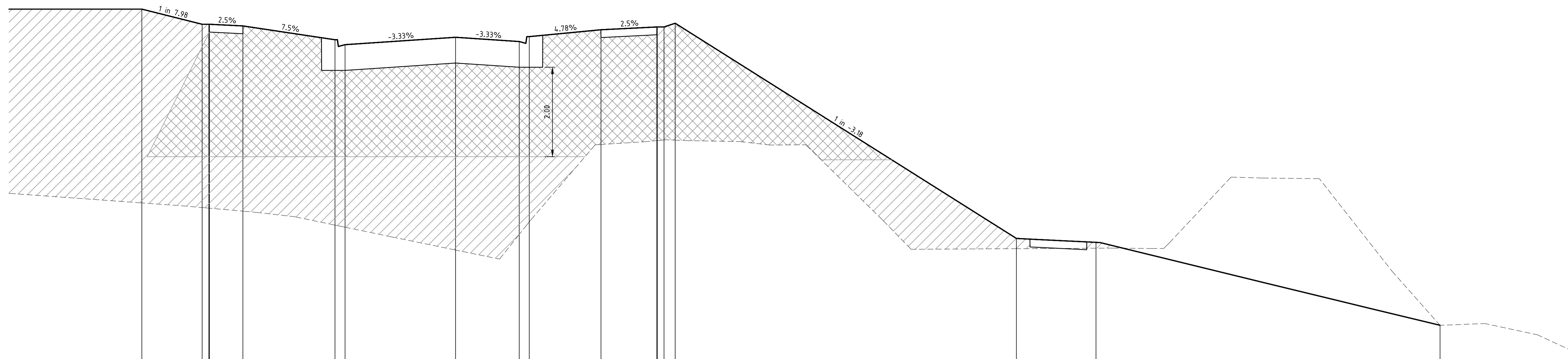
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 W dceng.com.au
 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au



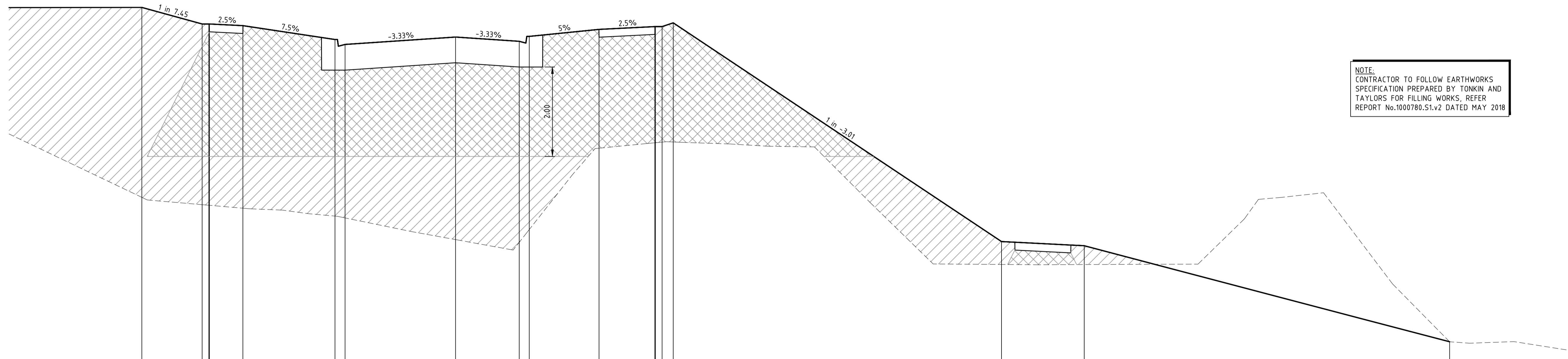
Sheet No. 29 CONSTRUCTION
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 ABN 78 429 221 049

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\124_Sydney\1\12050-River Valley - Stage 7A\8\Road\001
 Drawing No: 12050XS13
 Date/Time: Fri Jul 27, 2018 - 6:13pm - jacob.burns



DATUM RL4.000																					
DESIGN SURFACE																					
EXISTING SURFACE																					
OFFSET																					



DATUM RL4.000																					
DESIGN SURFACE																					
EXISTING SURFACE																					
OFFSET																					

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS. REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631401
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943547
 Audited R.MASON
 Date 17/08/17
 AN 705000
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98%
 SDD UNDER LEVEL 1

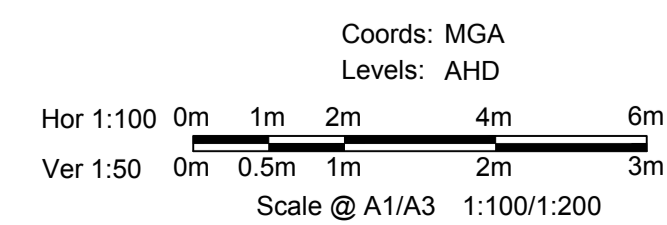
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL < 1.5%. COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
 SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.



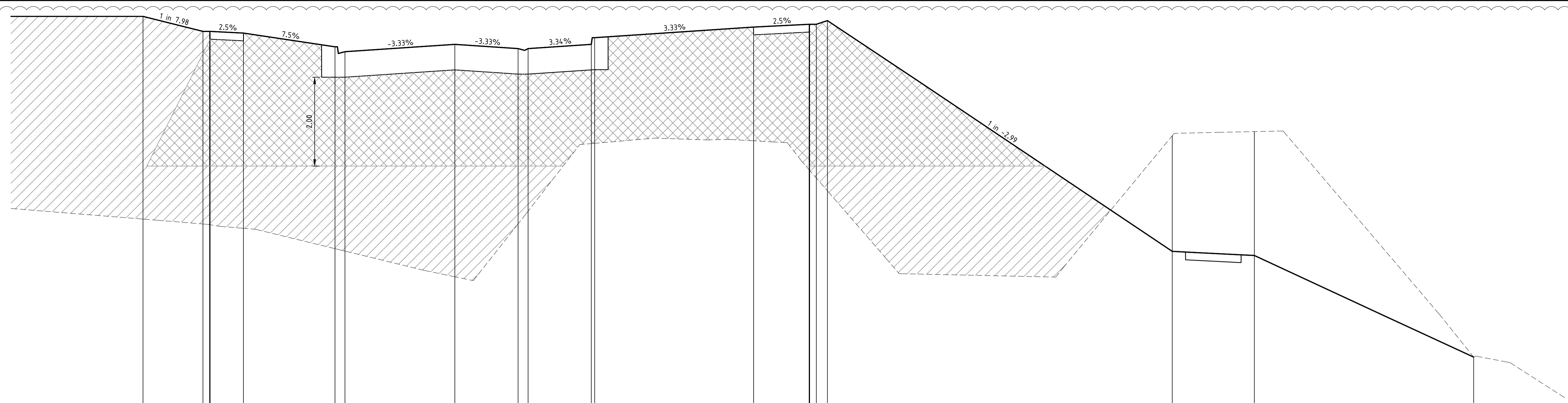
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 13 OF 20
 Drawing No. 12050XS13 Rev 1
 Sheet No. 32 CONSTRUCTION
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 T 61 7 3374 9000
 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

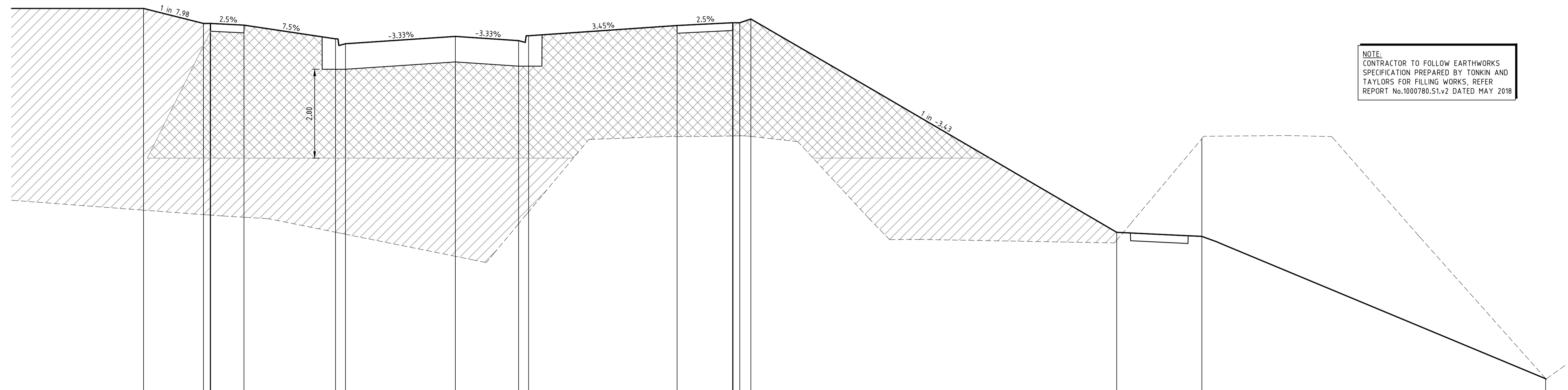
Project File: C:\124_Sydney\1\12050-River Valley - Stage 7A.dwg
 Drawing No: 12050XS14
 Date/Time: Fri Jul 27, 2018 - 6:13pm - jacobsburns



DATUM RL3.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
-16.050	-17.702	-12.266
-11.350	-12.922	-11.928
-11.025	-12.516	-11.928
-9.525	-11.495	-11.89
-5.400	-7.037	-11.581
-4.950	-6.982	-11.471
0.000	6.403	-11.636
2.850	7.594	-11.541
3.300	7.88	-11.541
6.150	9.402	-11.636
6.300	9.408	-11.786
13.463	9.464	-12.025
15.963	8.813	-12.087
15.988	8.799	-12.087
16.788	8.316	-12.101
33.325	9.58	-6.975
36.025	9.672	-6.882
45.206	4.596	-4.596

CH 304.142



DATUM RL3.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
-16.050	-17.813	-12.356
-11.350	-12.713	-12.018
-11.025	-12.702	-12.018
-9.525	-11.654	-11.98
-5.400	-7.317	-11.671
-4.950	-7.272	-11.561
0.000	6.775	-11.726
2.850	7.507	-11.631
3.300	7.777	-11.741
9.990	9.471	-11.971
12.490	9.486	-12.034
12.515	9.486	-12.034
12.815	9.489	-12.034
13.315	9.474	-12.117
29.800	7.139	-7.315
33.634	9.252	-7.223
49.125	4.011	-4.011

CH 286.142

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS. REFER
 REPORT No.1000780.51.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631402
 Verified T.THAUVENDRAN
 Date 20/07/17
 AN 943548
 Audited R.MASON
 Date 17/08/17
 AN 705001
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98%
 SDD UNDER LEVEL 1

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL -1.5% - COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
 SHALL BE LOOSENEED OR FLATTENED.

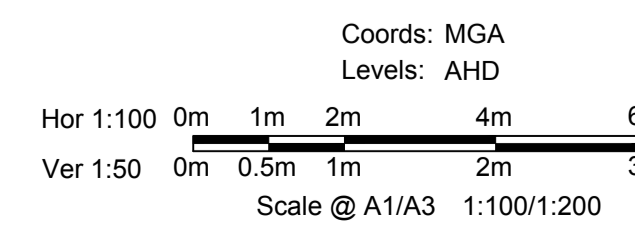
NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.



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 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 14 OF 20
Drawing No. 12050XS14 Rev 1



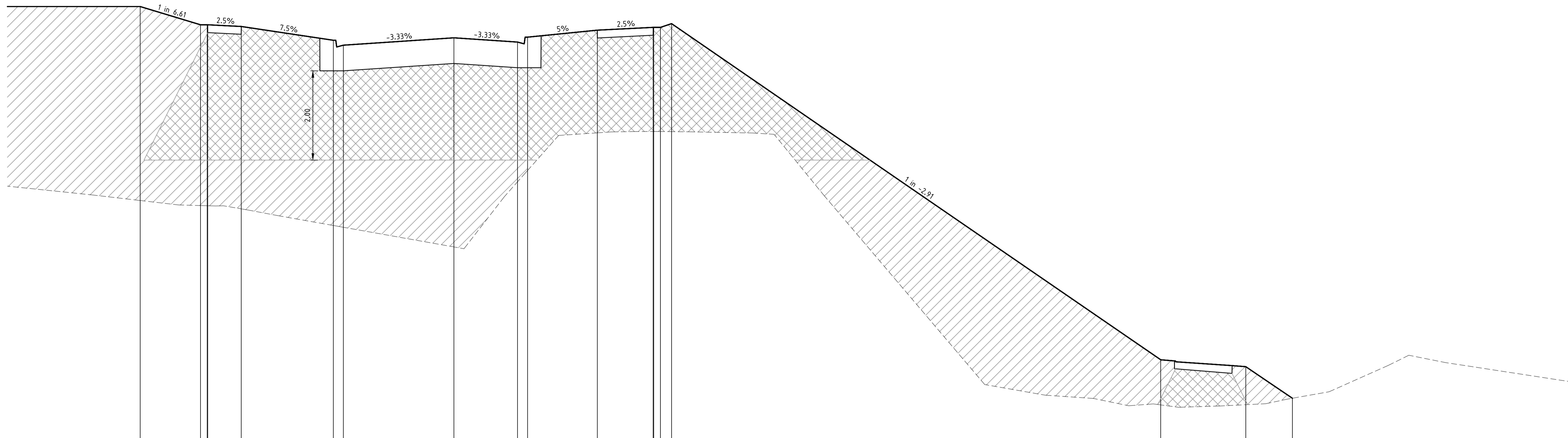
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 E info@dceng.com.au
 ABN 78 429 221 049



Sheet No. 33
CONSTRUCTION
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12650-River Valley - Stage 7A.dwg (V01)
 Project Name: RIVER VALLEY ESTATE - STAGE 7A
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



DATUM RL2.000	
DESIGN SURFACE	12.406
EXISTING SURFACE	8.061
OFFSET	-14.050

CH 358.142

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631404
 Verified T.THAUVENDRAN
 Date 20/07/17
 AN 943550
 Audited R. MASON
 Date 17/08/17
 AN 705003
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

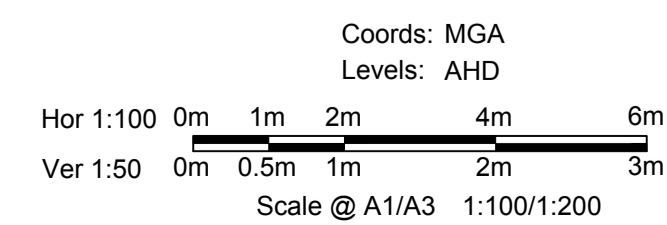
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
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NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



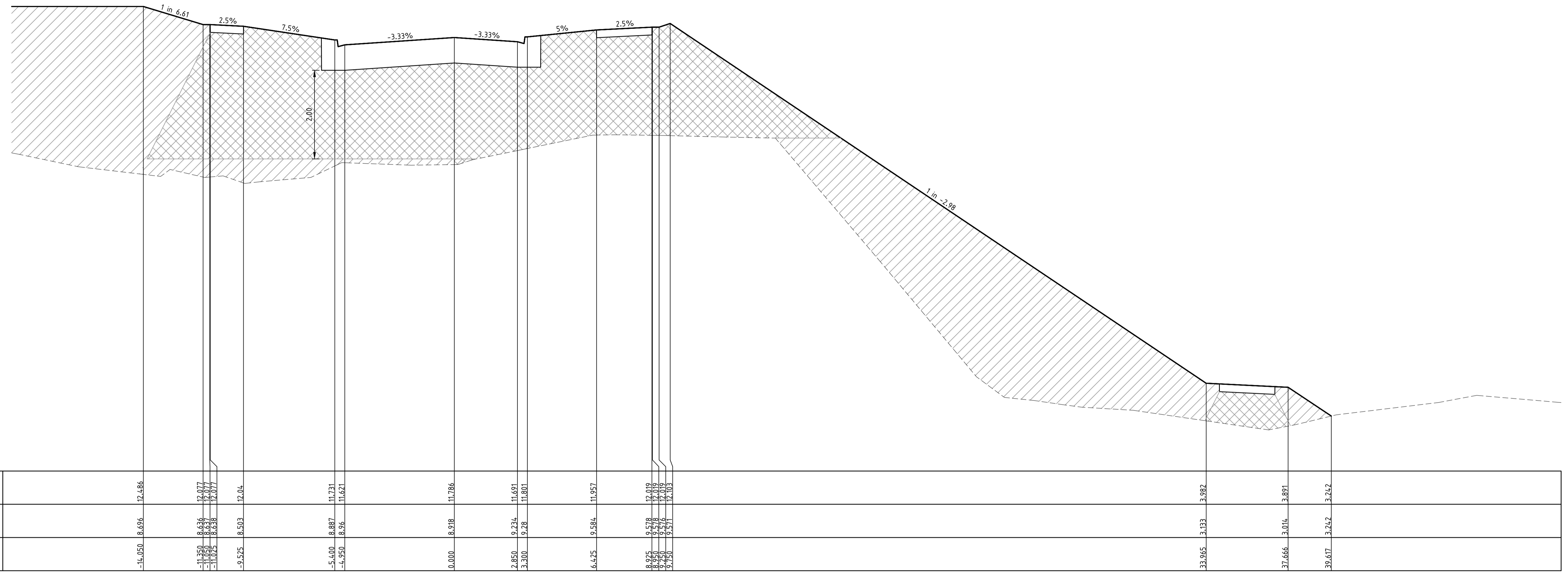
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 16 OF 20
 Drawing No. 12050XS16 Rev 1
 Sheet No. 35 CONSTRUCTION
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12650-river valley - Stage 7A.dwg (v01)
 Drawing No: 12050XS17
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



DATUM RL2.000	
DESIGN SURFACE	12.486, 12.077, 12.077, 12.04, 11.731, 11.621, 11.786, 11.691, 11.801, 11.957, 12.019, 12.019, 12.013, 3.982, 3.891, 3.742
EXISTING SURFACE	8.696, 8.636, 8.937, 8.638, 8.503, 8.887, 8.76, 8.918, 8.234, 8.28, 9.584, 9.578, 9.278, 9.276, 3.133, 3.014, 3.242
OFFSET	-14.050, -11.350, -11.050, -9.525, -5.400, -4.350, 0.000, 2.850, 3.300, 6.425, 8.925, 8.940, 8.740, 33.965, 37.666, 39.617

CH 374.142

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631405
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943551
 Audited R. MASON
 Date 17/08/17
 AN 705004
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND
 DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

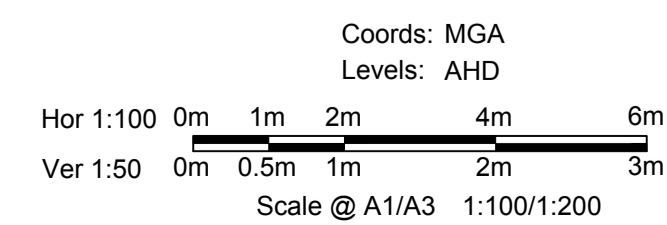
NOTE:
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NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
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ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 17 OF 20
Drawing No. 12050XS17 Rev 1



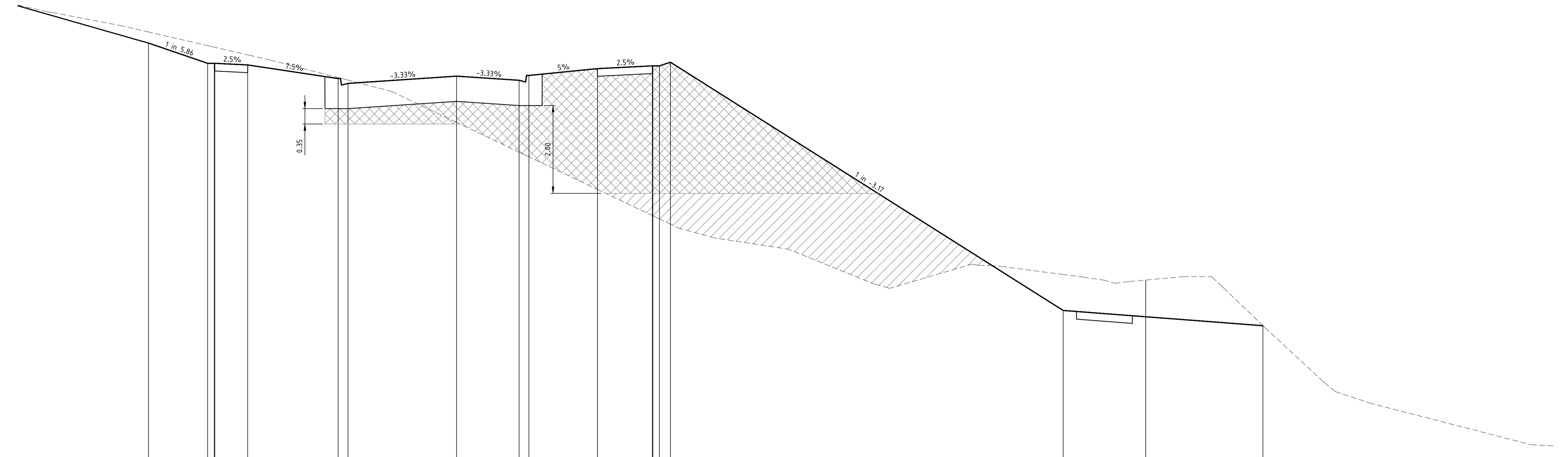
Coords: MGA
 Levels: AHD
 Sheet No. 36
 Scale @ A1/A3 1:100/1:200



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 ABN 78 429 221 049

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Project File: C:\124_Sydney\1\12650-River Valley - Stage 7A\8\Road\001
 Drawing No: 12050XS20
 Date/Time: Fri Jul 27, 2018 - 6:13pm - jacob.burns



DATUM RL3.000	
DESIGN SURFACE	12.735, 12.714, 12.714, 12.237, 11.928, 11.818, 11.983, 11.888, 11.998, 12.154, 12.716, 12.716, 12.716, 12.3
EXISTING SURFACE	12.988, 12.677, 12.674, 12.467, 11.949, 11.891, 11.929, 11.851, 11.998, 12.454, 8.807, 8.801, 8.801, 8.773, 8.611, 7.465, 6.646, 5.752, 5.548, 5.548
OFFSET	-16.050, -11.350, -11.350, -9.525, -5.400, -4.950, 0.000, 2.850, 3.300, 6.425, 8.925, 8.925, 9.425, 9.750, 27.659, 27.659, 27.659

CH 413.526

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631408
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943554
 Audited R. MASON
 Date 17/08/17
 AN 705007
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

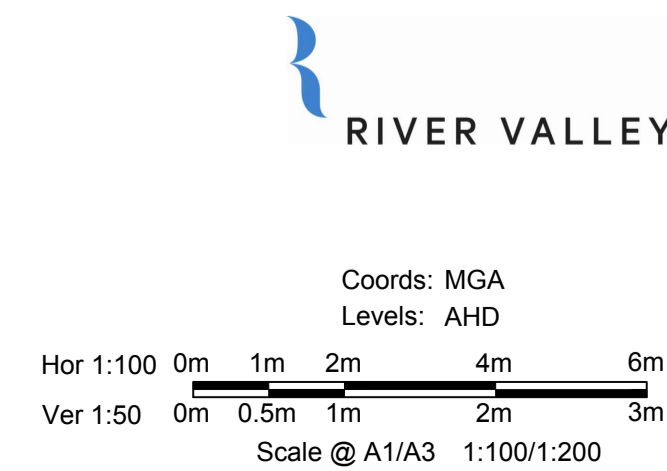
LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

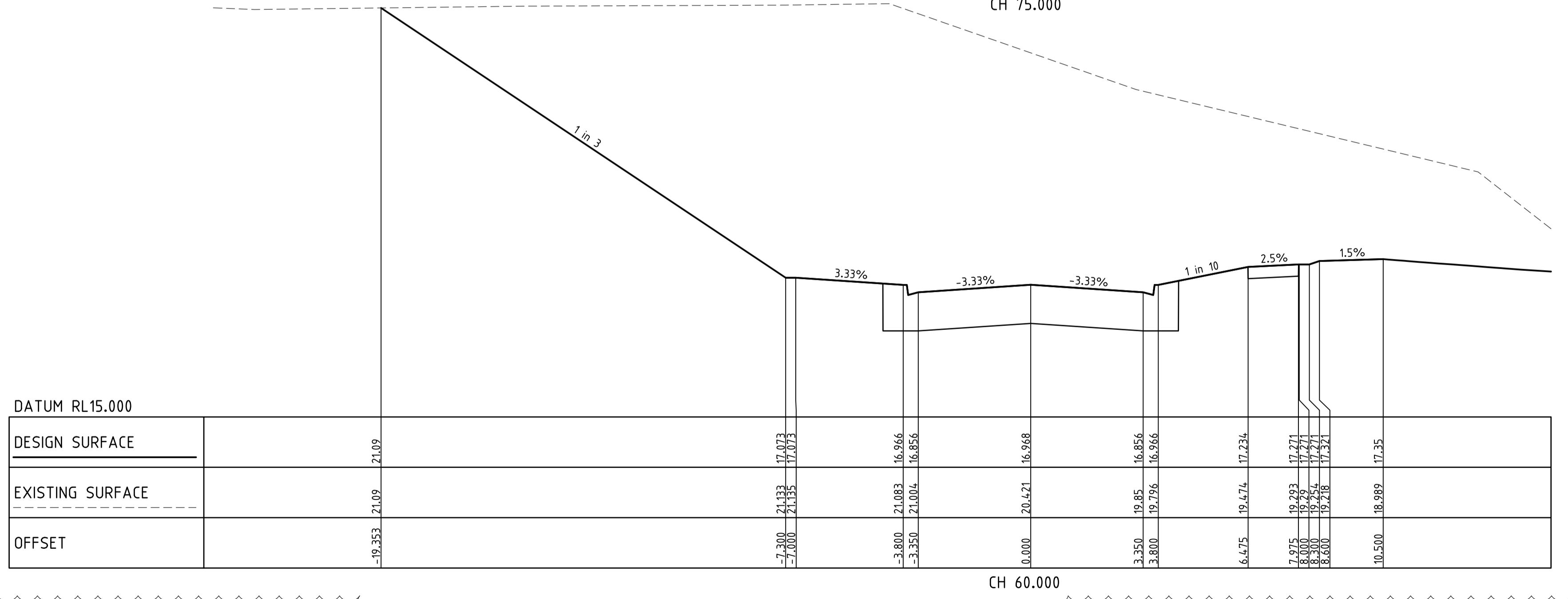
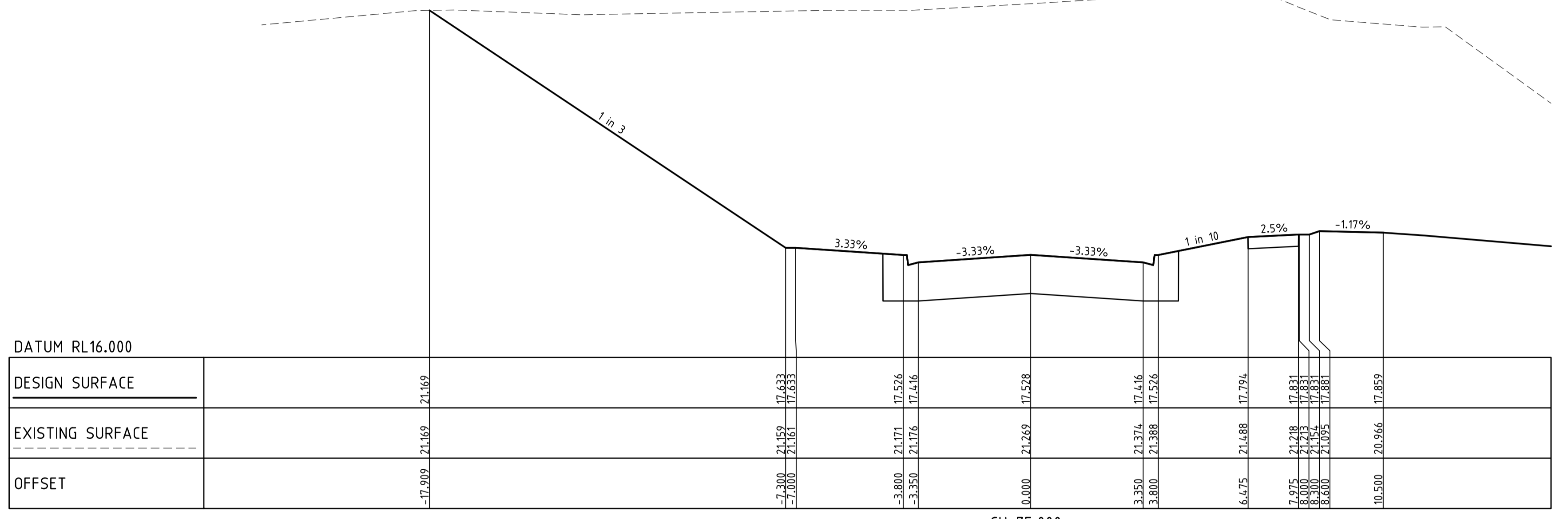
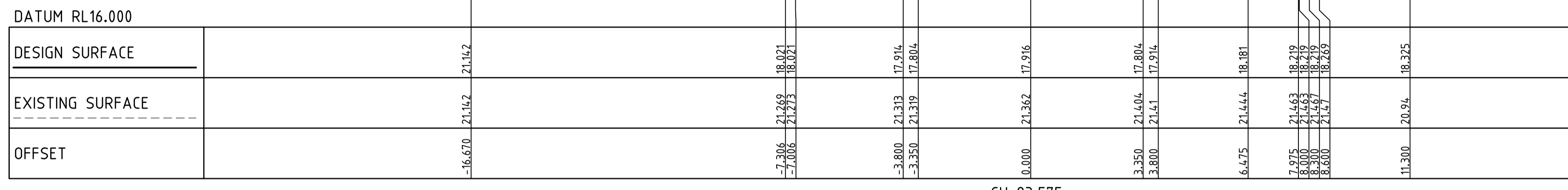
NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 RIVERVALLEY BOULEVARD CROSS SECTIONS
SHEET 20 OF 20
 Drawing No. 12050XS20 Rev 1
 Sheet No. 39 CONSTRUCTION
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 ABN 78 429 221 049



NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS
SPECIFICATION PREPARED BY TONKIN AND
TAYLORS FOR FILLING WORKS, REFER
REPORT No.1000780.S1.v2 DATED MAY 2018

Drawing File: C:\124_Sydney\1\12650-River Valley - Stage 7A\8\Road\001
 Drawing No: 12650-River Valley - Stage 7A\8\Road\001
 Date/Time: Fri Jul 27, 2018 - 6:13pm - jacob.burns

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631410
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943556
 Audited R. MASON
 Date 17/08/17
 AN 705009
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

RIVER VALLEY

Coords: MGA
Levels: AHD

Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:500/1:1000

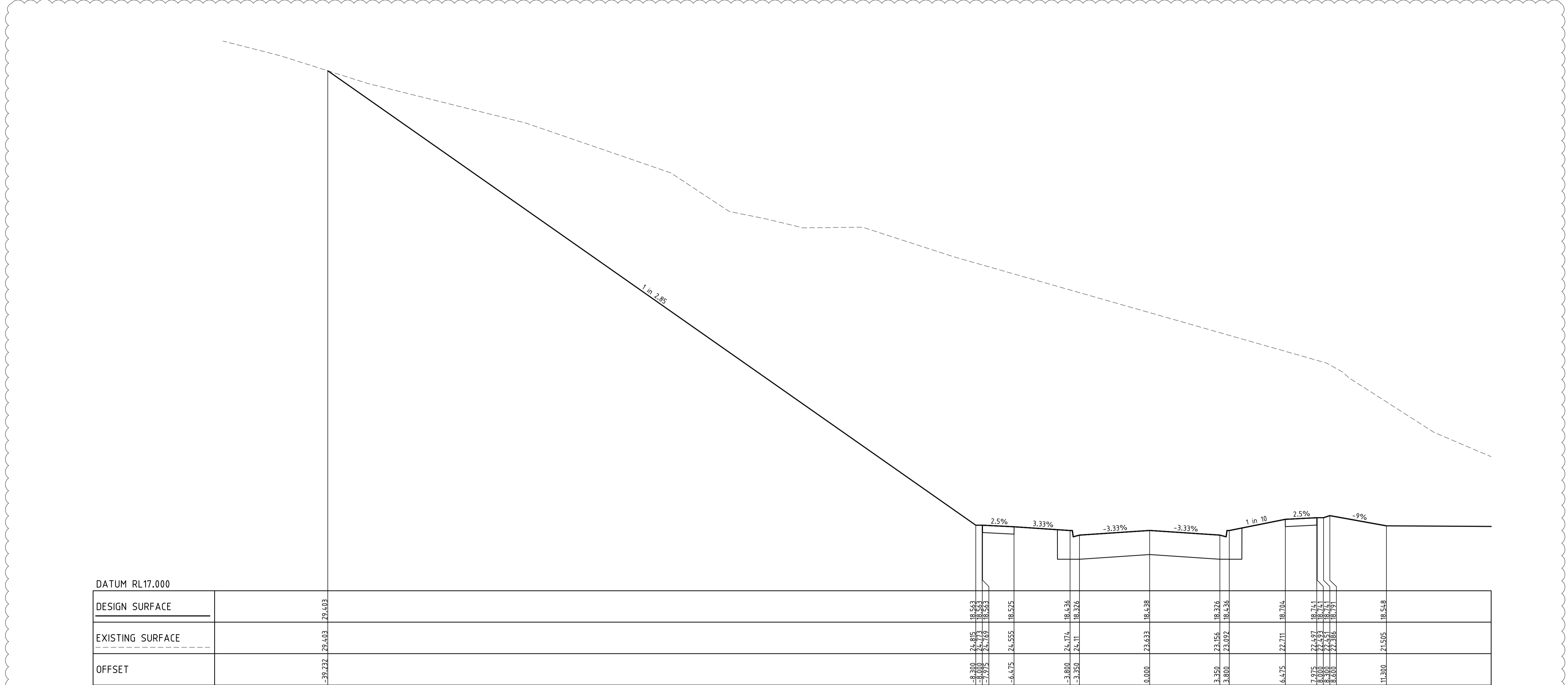
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
 SHEET 02 OF 15
 Drawing No. 12050XS22 Rev 1
 Sheet No. 41 CONSTRUCTION
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\2050-River Valley - Stage 7A\8\Road\001
 Drawing No: 12050XS24
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



DATUM RL17.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
29.403	29.403	-39.232
18.563	24.895	-8.332
18.563	24.913	-8.350
18.563	24.669	-7.975
18.525	24.555	-6.475
18.436	24.174	-3.800
18.326	24.11	-3.350
18.438	23.633	0.000
18.326	23.156	3.350
18.436	23.092	3.800
18.704	22.711	6.475
18.741	22.697	7.875
18.741	22.693	8.000
18.741	22.451	8.300
18.741	22.488	8.600
18.721	22.488	8.600
18.518	21.505	11.300

CH 152.929

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS. REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631412
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943558
 Audited R.MASON
 Date 17/08/17
 AN 705011
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

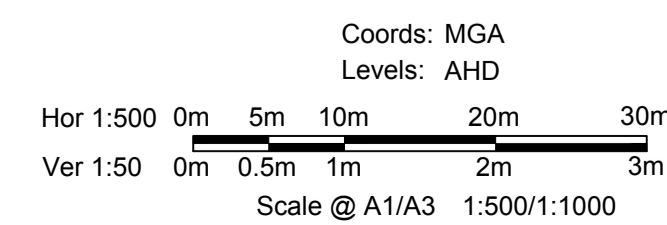
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
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ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
 SHEET 04 OF 15
 Drawing No. 12050XS24 Rev 1



Sheet No. 43
 Scale @ A1/A3 1:500/1:1000
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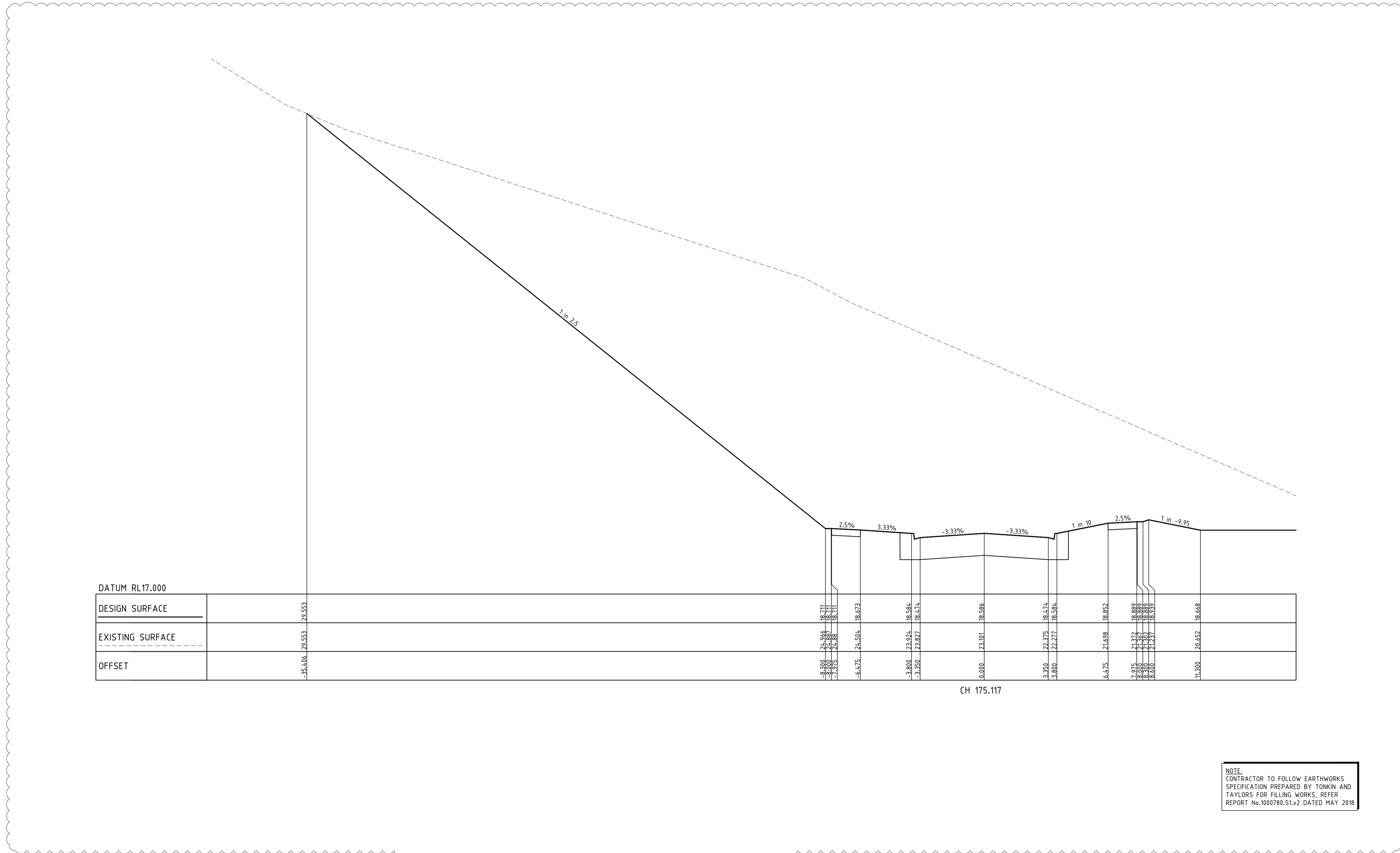
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ABN 78 429 221 049

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\124_Sydney\1\12650-River Valley - Stage 7A\8\Road\001
 Drawing No: 12050XS25
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



DATUM RL17.000	
DESIGN SURFACE	29.553
EXISTING SURFACE	29.553
OFFSET	-35.406

-8.700	21.966	18.711	7.5%	3.33%	-3.33%	-3.33%	1 in 10	2.5%	1 in -9.95	11.300	20.652	18.668																			
-8.000	24.887	18.711	-6.475	24.504	18.673	-3.800	23.824	18.584	0.000	23.101	18.586	3.350	22.375	18.474	18.584	6.475	21.698	18.652	7.975	21.377	18.889	8.000	21.367	18.889	8.300	21.307	18.889	8.600	21.257	18.539	
-7.975	24.888	18.711																													

CH 175.117

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS. REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631413
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943559
 Audited R. MASON
 Date 17/08/17
 AN 705012
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081



LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

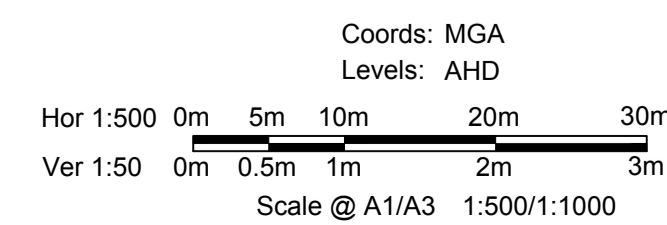
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



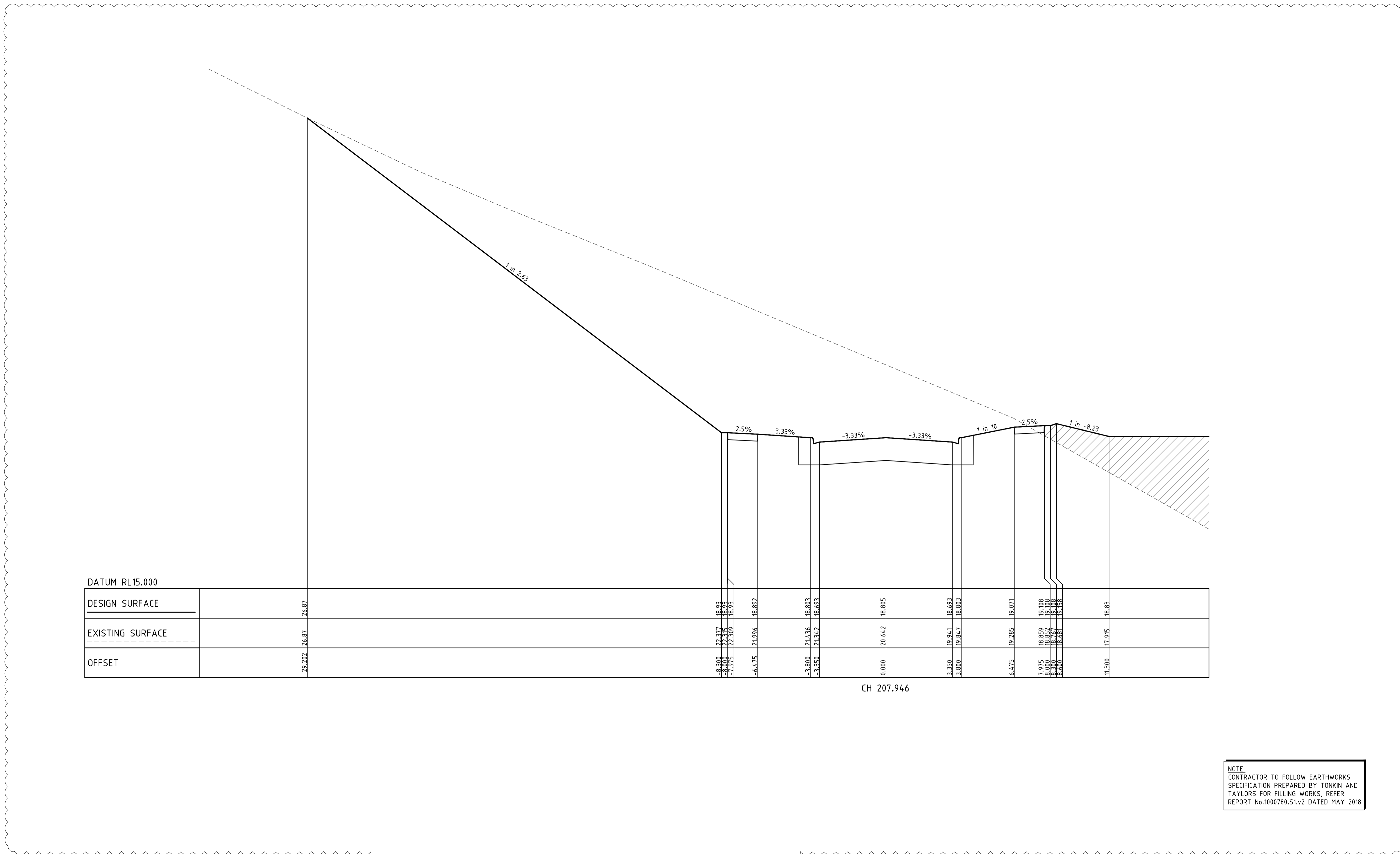
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
 SHEET 05 OF 15
 Drawing No. 12050XS25 Rev 1
 Sheet No. 44 CONSTRUCTION



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 W dceng.com.au
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 E info@dceng.com.au
 ABN 78 429 221 049

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12650-River Valley - Stage 7A\8\Road\001
 Drawing No: 12050XS27
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



DATUM RL15.000	
DESIGN SURFACE	26.87
EXISTING SURFACE	26.87
OFFSET	-29.207

-8.300	22.377	18.693	2.5%	3.33%	-3.33%	-3.33%	1 in 10	-2.5%	1 in -8.23	18.693
-8.000	22.315	18.693								18.693
-7.975	22.305	18.693								18.693
-6.475	21.996	18.892								18.892
-3.800	21.436	18.803								18.803
-3.350	21.342	18.693								18.693
0.000	20.642	18.805								18.805
3.350	19.941	18.693								18.693
3.800	19.847	18.803								18.803
6.475	19.285	19.071								19.071
7.975	18.859	19.108								19.108
8.000	18.854	19.108								19.108
8.200	18.787	19.098								19.098
8.200	18.681	19.124								19.124
11.300	17.915	18.883								18.883

CH 207.946

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS. REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631415
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943561
 Audited R.MASON
 Date 17/08/17
 AN 705014
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98%
 SDD UNDER LEVEL 1

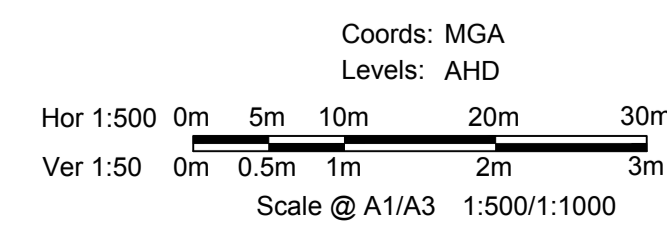
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
 SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
SHEET 07 OF 15
Drawing No. 12050XS27 Rev 1



Sheet No. 46
CONSTRUCTION
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 ABN 78 429 221 049

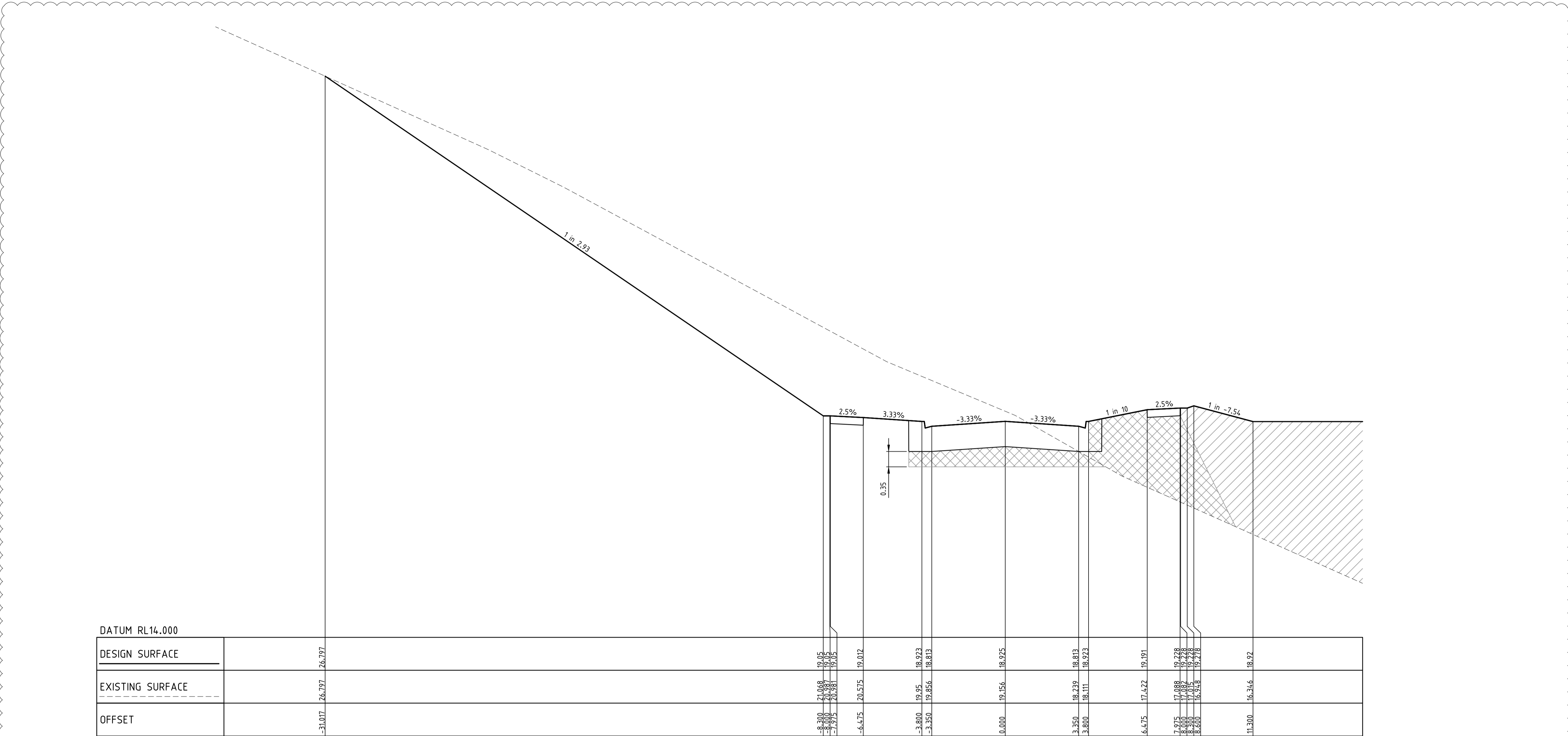


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 T 61 3 9813 7400
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 T 61 7 3374 9000
 E info@dceng.com.au

ABN 78 429 221 049

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12050-River Valley - Stage 7A\8\Road\081
 Drawing No: 12050XS28
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



DATUM RL14.000	
DESIGN SURFACE	-31.017 26.797 19.45 19.45 19.012 18.923 18.813 18.925 18.813 18.923 19.191 19.428 19.428 19.428 19.428 18.92
EXISTING SURFACE	-31.017 26.797 21.068 20.981 20.575 19.95 19.856 19.156 18.239 18.111 17.422 17.088 17.088 17.088 16.346
OFFSET	-8.300 5.000 6.575 3.800 3.350 0.000 3.250 3.800 6.475 7.975 8.300 8.400 11.300

CH 225.946

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS. REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APPD.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631416
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943562
 Audited R. MASON
 Date 17/08/17
 AN 705015
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081



LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98%
 SDD UNDER LEVEL 1

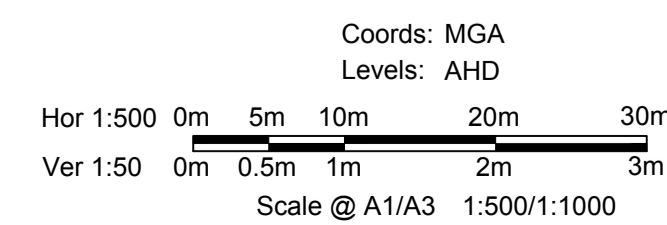
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL <1.5%. COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
 SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
SHEET 08 OF 15
Drawing No. 12050XS28 Rev 1



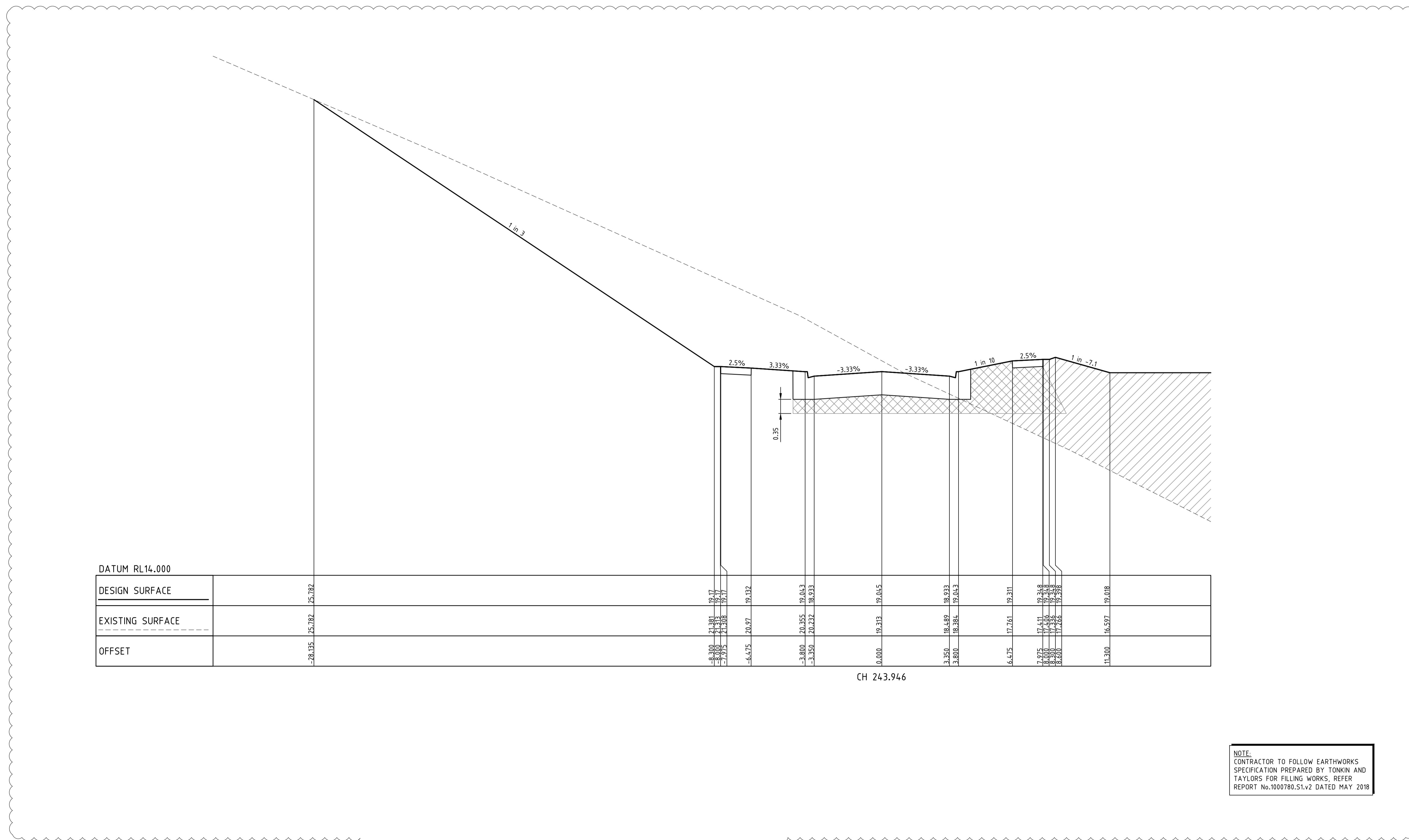
Sheet No. 47
CONSTRUCTION
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 ABN 78 429 221 049



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 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12650-River Valley - Stage 7A\8\Road\09
 Drawing No: 12050XS29
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



CH 24.3.946

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS. REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631417
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943563
 Audited R. MASON
 Date 17/08/17
 AN 705016
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98%
SDD UNDER LEVEL 1

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
 SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL < 1.5%. COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.

RIVER VALLEY

Coords: MGA
 Levels: AHD

Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
 SHEET 09 OF 15
 Drawing No. 12050XS29 Rev 1
 Sheet No. 48 **CONSTRUCTION**
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 ABN 78 429 221 049

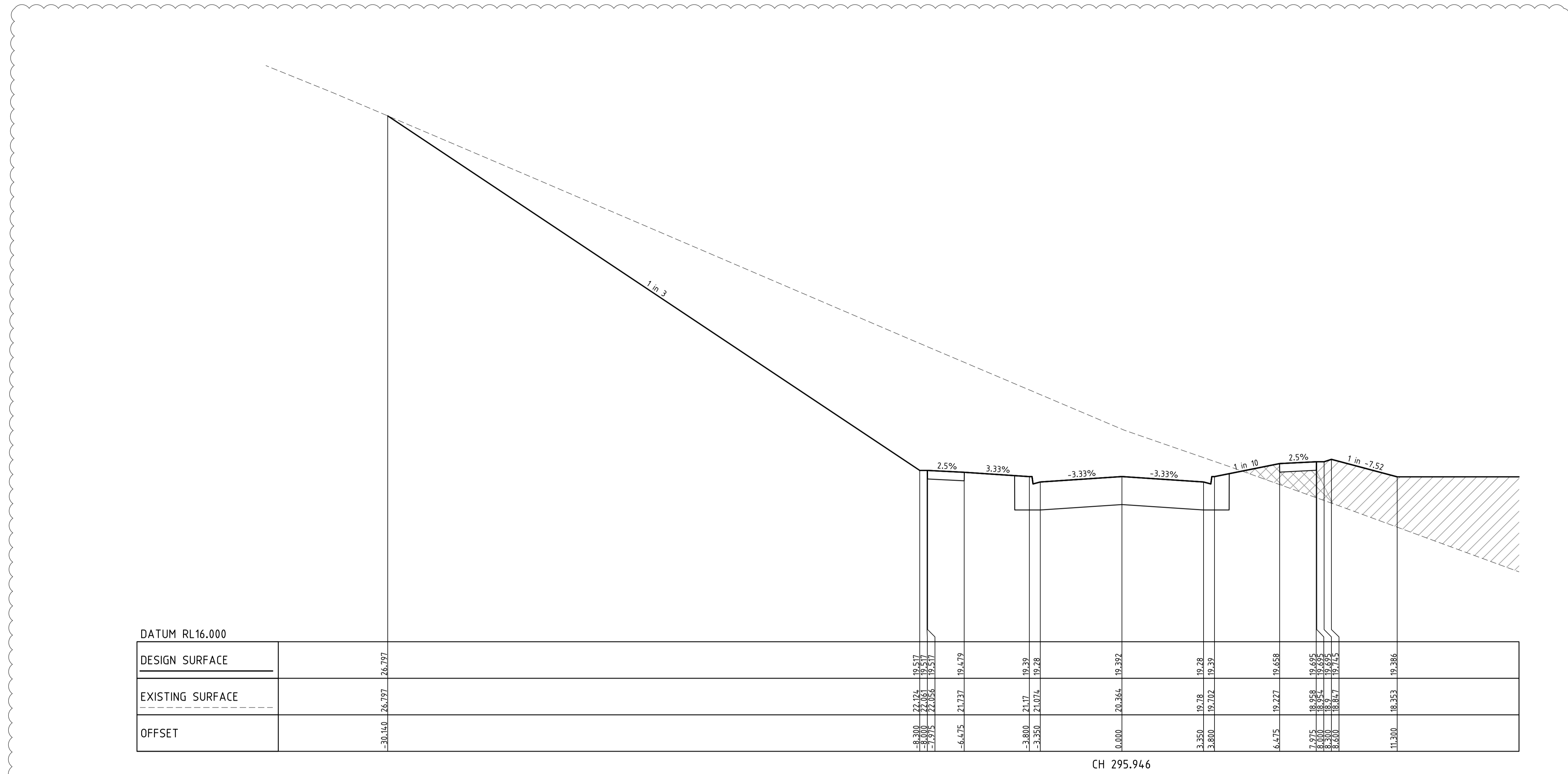
DALTON CONSULTING ENGINEERS

ABN 78 429 221 049
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 T 61 7 3374 9000
 E info@dceng.com.au

VICTORIA
 T 61 3 9813 7400
 W dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\124_Sydney\1\12560-River Valley - Stage 7A_8\Coord\001.dwg
 Drawing No: 12560-RV-001.dwg
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS. REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631420
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943566
 Audited R. MASON
 Date 17/08/17
 AN 705019
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081



LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98%
 SDD UNDER LEVEL 1

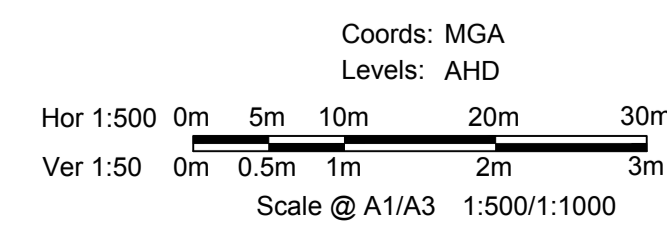
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
 SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
SHEET 12 OF 15
Drawing No. 12050XS32 Rev 1



Sheet No. 51 **CONSTRUCTION**
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 ABN 78 429 221 049

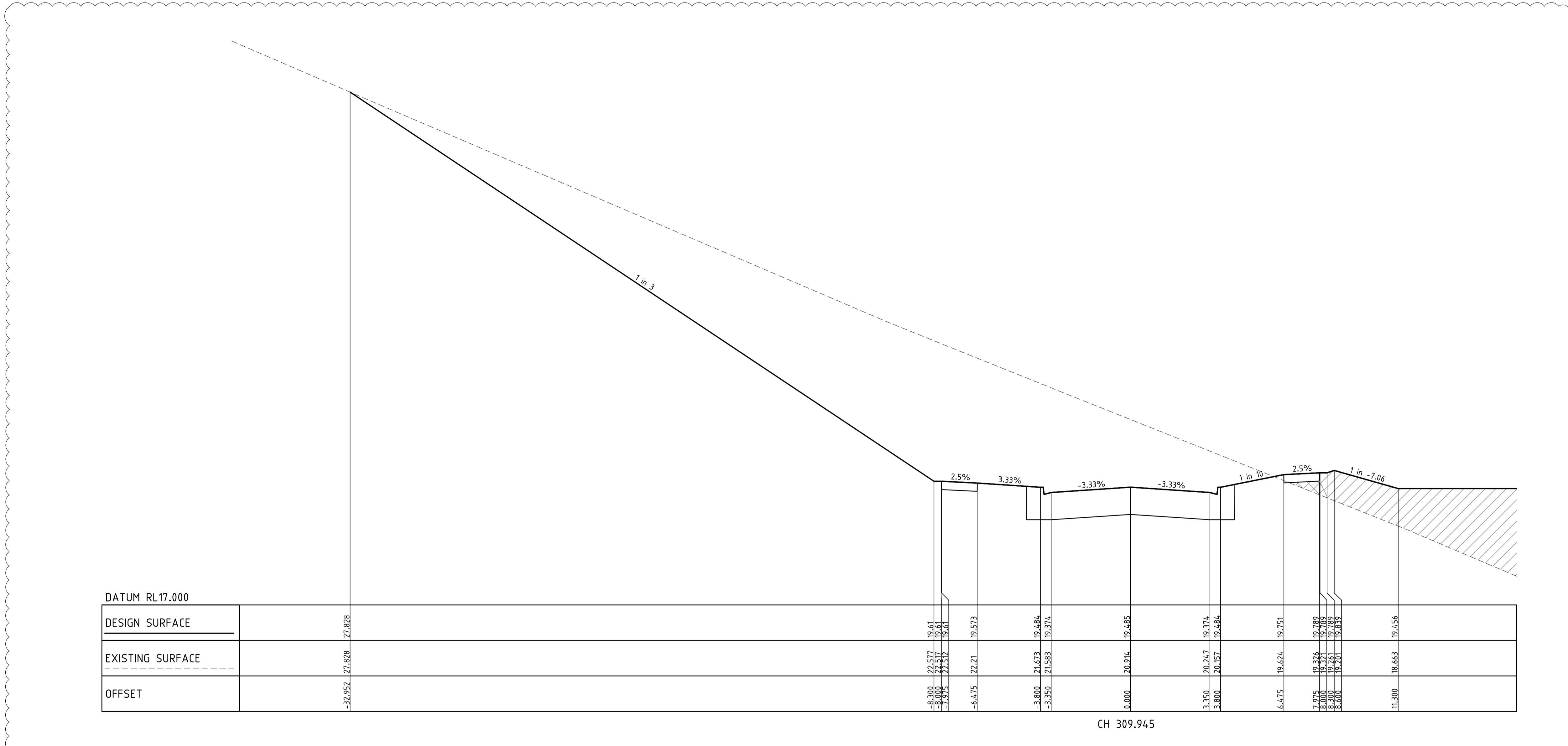


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ABN 78 429 221 049

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12650-River Valley - Stage 7A_8\Coord\001
 Drawing No: 12650-01-001
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS. REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631421
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943567
 Audited R.MASON
 Date 17/08/17
 AN 705020
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98%
 SDD UNDER LEVEL 1

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
 SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL <1.5%. COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.

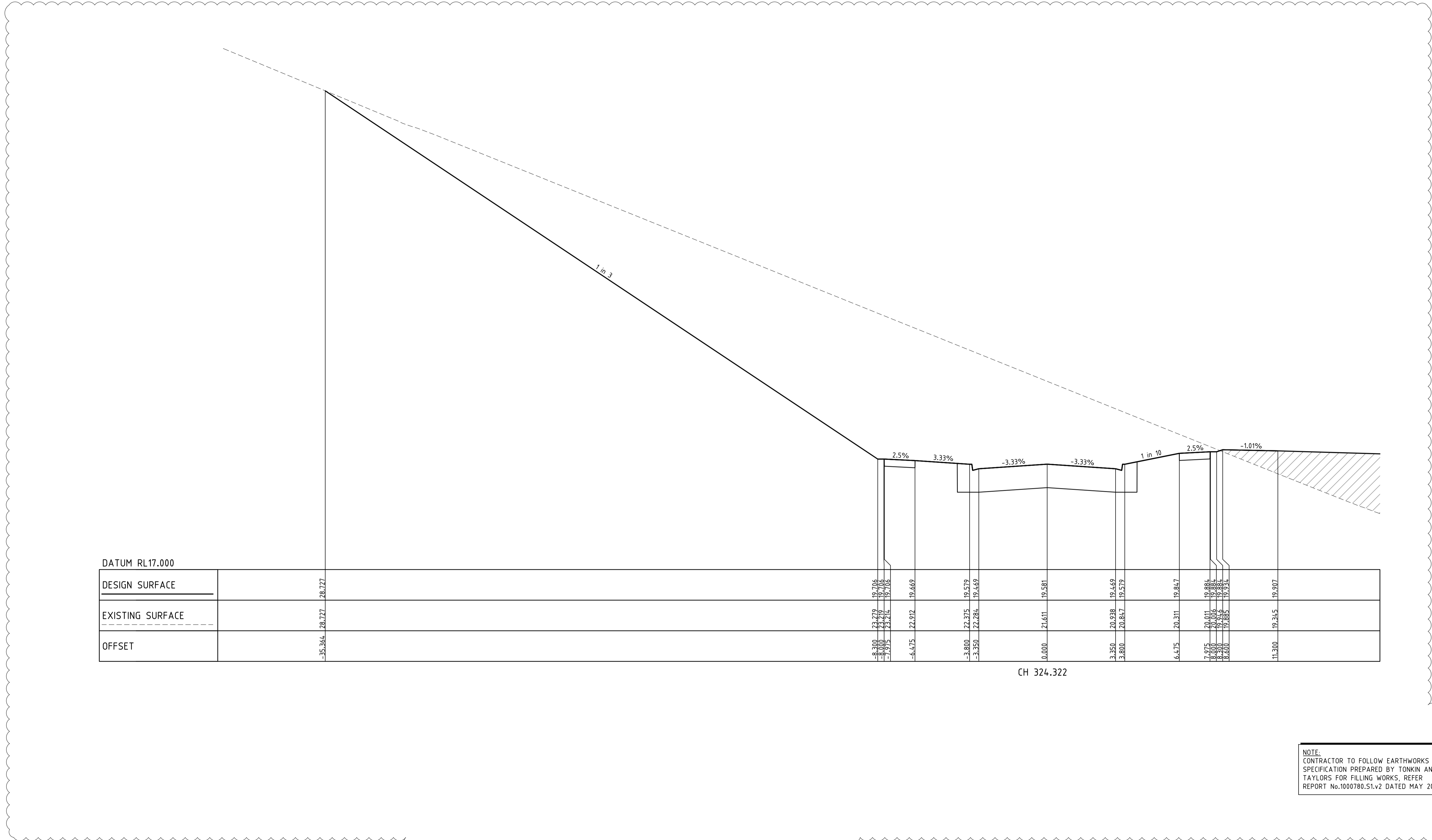
RIVER VALLEY
 Coords: MGA
 Levels: AHD
 Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
SHEET 13 OF 15
 Drawing No. 12050XS33 Rev 1
 Sheet No. 52 CONSTRUCTION
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 T 61 7 3374 9000
 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\2050-river valley - Stage 7A_8\locd\001
 Drawing No: 12050XS34
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



DATUM RL17.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
-35.364	-28.727	-28.727
19.706	19.706	0.000
19.706	19.706	0.000
19.669	19.669	0.000
19.579	19.579	0.000
19.669	19.669	0.000
19.581	19.581	0.000
19.669	19.669	0.000
19.579	19.579	0.000
19.867	19.867	0.000
19.884	19.884	0.000
19.884	19.884	0.000
19.934	19.934	0.000
19.885	19.885	0.000
19.907	19.907	0.000

CH 324.322

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS
 SPECIFICATION PREPARED BY TONKIN AND
 TAYLORS FOR FILLING WORKS, REFER
 REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631422
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943568
 Audited R. MASON
 Date 17/08/17
 AN 705021
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081



LEGEND

- DENOTES STRUCTURAL FILL (TYPE 2)
- TYPE 1 FILL COMPACTED TO 98%
SDD UNDER LEVEL 1

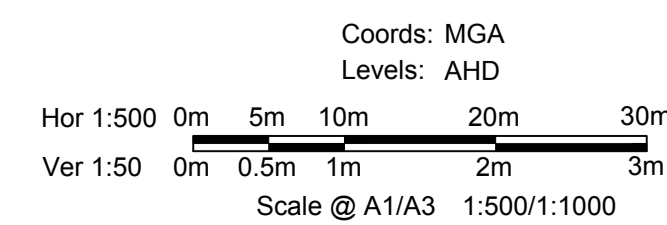
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN
 APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS
 NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND
 COMPACTED TO A DRY DENSITY OF NOT LESS THAN
 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL
 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR
 EACH LAYER AND NEAR VERTICAL BASALT FACES
 SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF
 BATTER TREATMENT.



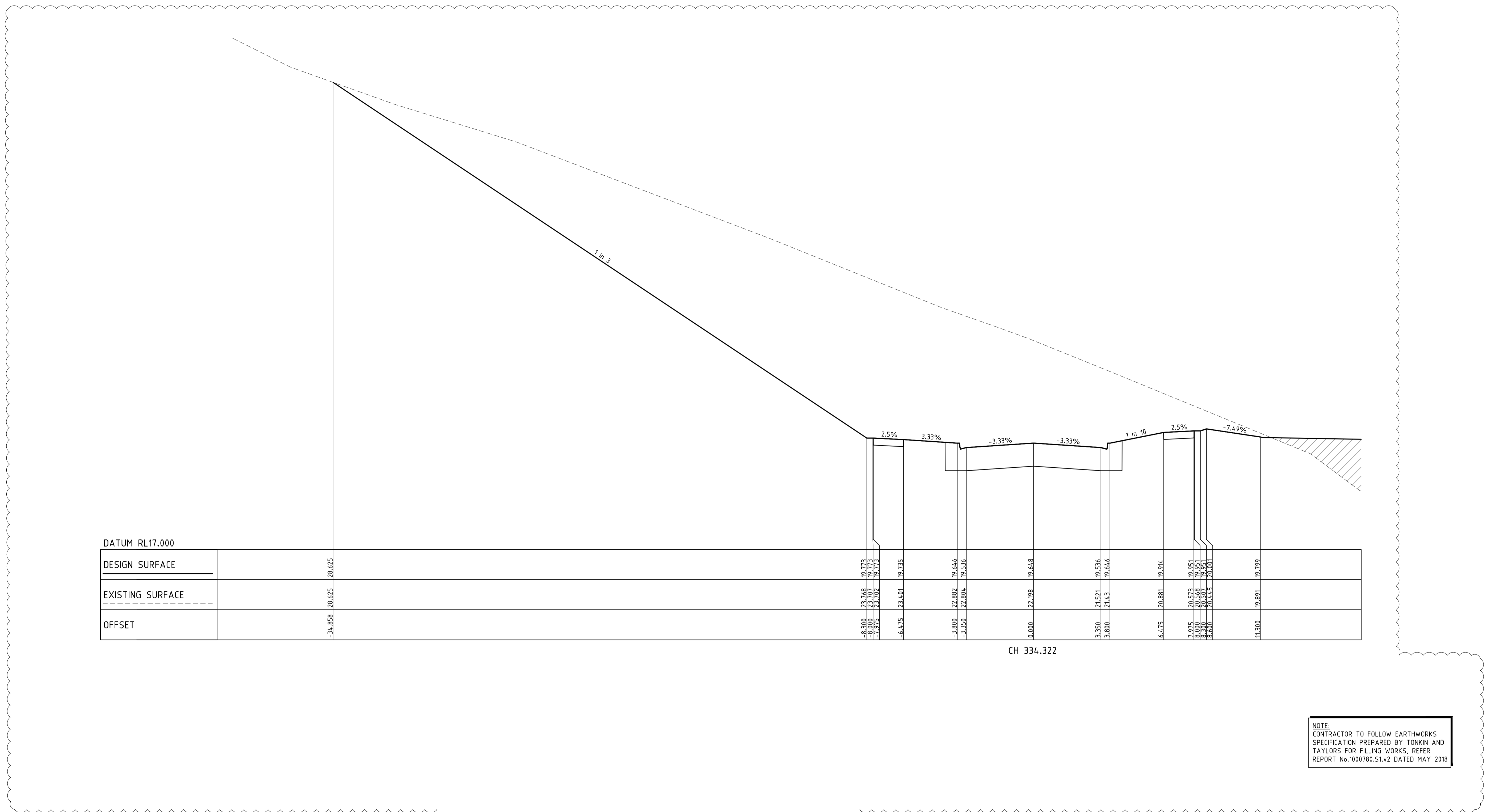
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
 SHEET 14 OF 15
 Drawing No. 12050XS34 Rev 1
 Sheet No. 53 CONSTRUCTION



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 ABN 78 429 221 049
 QUEENSLAND
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 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sydney\1\12565-River Valley - Stage 7A\8\Road\001
 Drawing No: 12565-River Valley - Stage 7A\8\Road\001
 Date/Time: Fri Jul 27, 2018 - 6:13pm -- jacob.burns--



DATUM RL17.000	
DESIGN SURFACE	-34.858 28.625 28.625 19.773 19.773 23.401 19.735 19.648 19.648 21.571 19.636 19.646 20.881 19.914 20.573 19.951 20.407 19.951 20.001 11.300 19.729
EXISTING SURFACE	-34.858 28.625 28.625 19.773 19.773 23.401 19.735 19.648 19.648 21.571 19.636 19.646 20.881 19.914 20.573 19.951 20.407 19.951 20.001 11.300 19.729
OFFSET	0 0

CH 334.322

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	09/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631423
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943569
 Audited R. MASON
 Date 17/08/17
 AN 705022
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

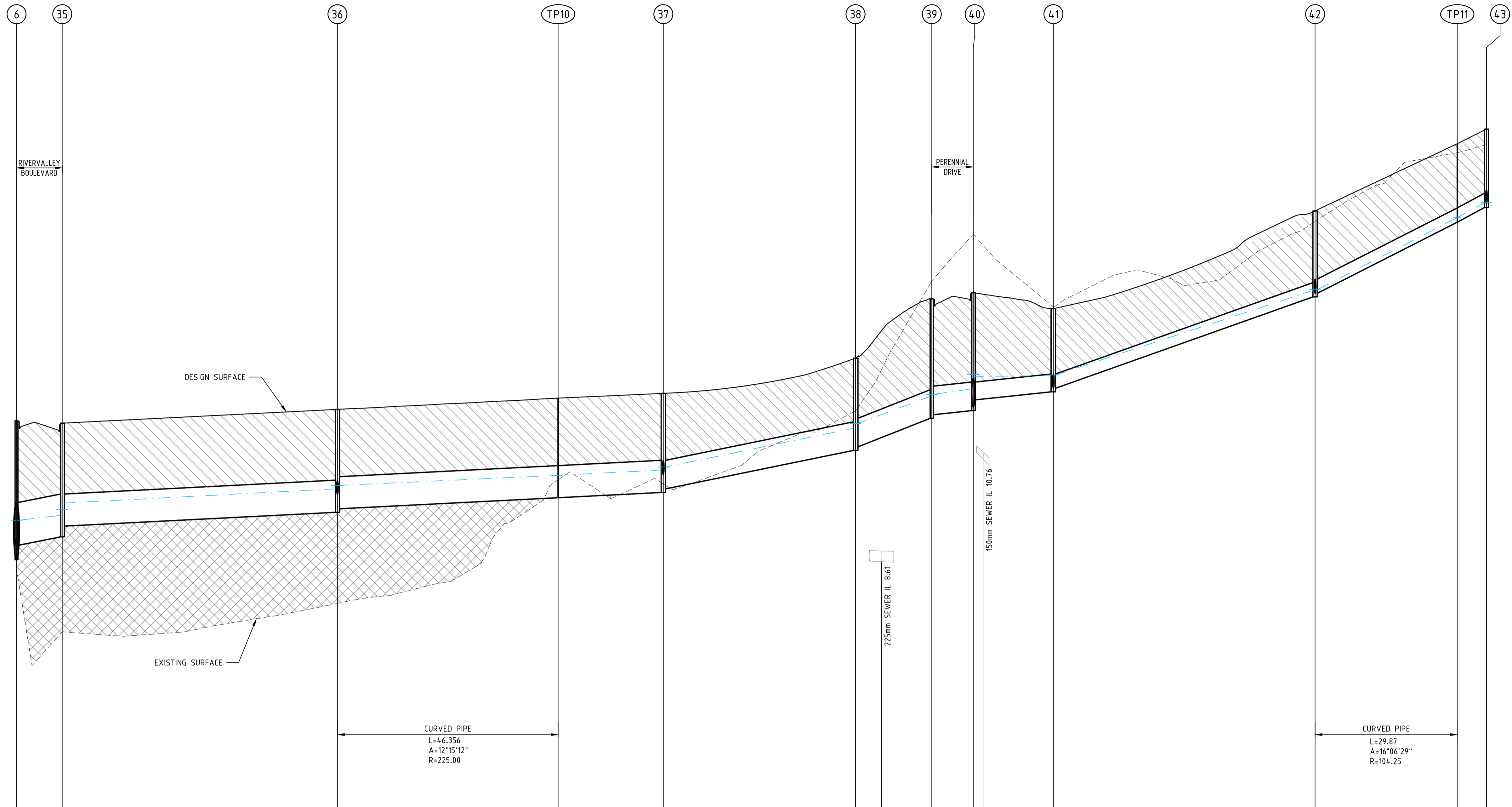
NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

RIVER VALLEY
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PERENNIAL DRIVE CROSS SECTIONS
SHEET 15 OF 15
 Drawing No. 12050XS35 Rev 1
 Sheet No. 54 CONSTRUCTION
 © Dalton Consulting Engineers Pty Ltd
 ABN 78 429 221 049

Coords: MGA
 Levels: AHD
 Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000

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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



VELOCITY (m/s)	3.459	2.068	2.048	2.051	3.473	4.359	2.620	1.565	2.144	2.017	2.018
PIPE GRADE VELOCITY	4.284	1.848	1.848	1.848	3.447	4.721	2.433	1.810	2.945	3.529	3.529
PIPE GRADE %	1.867%	0.500%	0.500%	0.500%	2.000%	3.742%	1.000%	1.000%	3.488%	5.000%	5.000%
PIPE FLOW (m ³ /s)	0.590	0.579	0.541	0.546	0.504	0.484	0.480	0.057	0.032	0.016	0.016
PIPE CAPACITY AT GRADE	2.725	0.661	0.661	0.661	0.975	1.335	0.688	0.200	0.208	0.249	0.249
PIPE SIZE (mm)	900	675	675	675	600	600	600	375	300	300	300
DATUM	1.000										
DEPTH TO INVERT	2.918	2.618	2.161	2.086	2.091	2.091	2.091	2.091	2.091	2.091	2.091
HYDRAULIC GRADE LINE (Q5)	9.407	9.476	9.571	9.571	9.571	9.571	9.571	9.571	9.571	9.571	9.571
INVERT LEVEL	8.649	8.949	9.128	9.353	9.642	9.717	11.804	11.804	14.164	14.239	15.732
DESIGN SURFACE LEVEL	11.566	11.514	11.804	11.804	12.040	12.139	12.139	12.139	14.164	14.239	15.732
EXISTING SURFACE LEVEL	8.456	7.137	7.129	7.129	10.327	12.040	12.139	12.139	15.749	17.192	17.381
CHAINAGE	0.000	9.600	57.814	67.414	46.356	113.769	22.093	135.862	40.364	176.227	181.692

Drawing File: C:\12050-River Valley - Stage 7A - 08\000\001\12050-DR02-Longitudinal Sections.dwg
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns

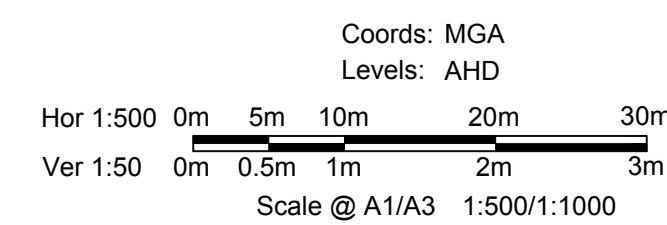
1	MINOR AMENDMENT	22/03/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL
REV	AMENDMENTS	DATE	APPD.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631425
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943571
 Audited R.MASON
 Date 17/08/17
 AN 705024
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND
 DENOTES STRUCTURAL FILL
 DENOTES CLASS 2 CRUSHED ROCK BACKFILL



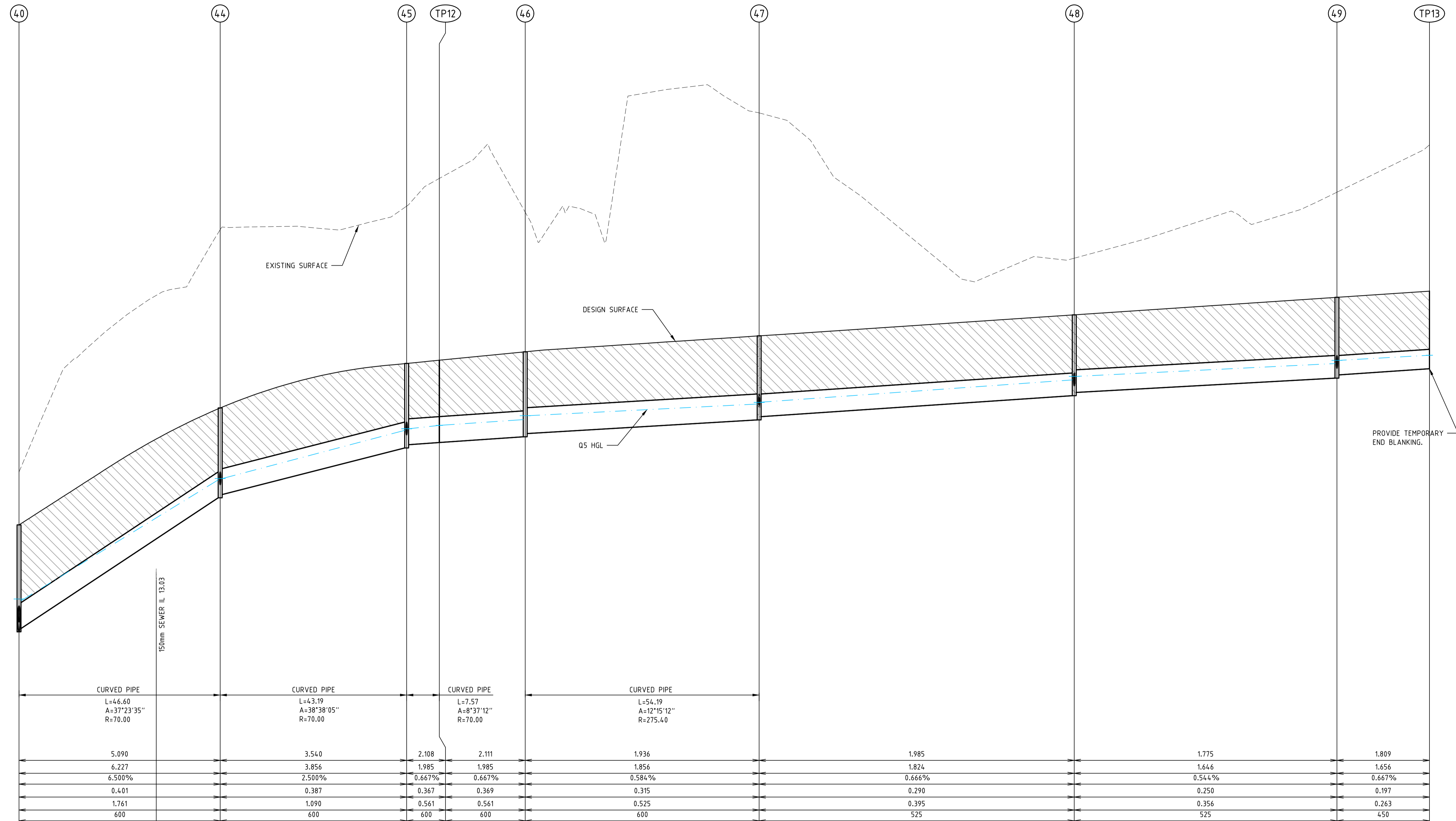
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 DRAINAGE LONGITUDINAL SECTIONS
SHEET 02 OF 05
Drawing No. 12050DR02 Rev 1
 Sheet No. 56 **CONSTRUCTION**
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\Users\jacob.burns\OneDrive - Jacobs\Documents\12050-River Valley - Stage 7A\Drawings\03 - Drainage Longitudinal Sections\03-05.dwg
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns



VELOCITY (m/s)	5.090	3.540	2.108	2.111	1.936	1.985	1.775	1.809
PIPE GRADE VELOCITY	6.227	3.856	1.985	1.985	1.856	1.824	1.646	1.656
PIPE GRADE %	6.500%	2.500%	0.667%	0.667%	0.584%	0.666%	0.544%	0.667%
PIPE FLOW (m ³ /s)	0.401	0.387	0.367	0.369	0.315	0.290	0.250	0.197
PIPE CAPACITY AT GRADE	1.761	1.090	0.561	0.561	0.525	0.395	0.356	0.263
PIPE SIZE (mm)	600	600	600	600	600	525	525	450
DATUM	7.000							
DEPTH TO INVERT	2.476 2.401		1.957 1.882	1.907 1.907	1.947 1.872	1.872 1.797	1.872 1.797	1.797 1.797
HYDRAULIC GRADE LINE (Q5)	12.233 12.538 12.436		16.444 16.481	16.559 16.559	16.693 16.782	17.053 17.098	17.613 17.695	18.065 18.185
INVERT LEVEL	11.778 11.853	13.931	14.882 14.957	16.037 16.112	16.162 16.162	16.687 16.762	17.248 17.323	17.654 17.729
DESIGN SURFACE LEVEL	14.255		17.994	18.070	18.264	18.633	19.120	19.526
EXISTING SURFACE LEVEL	15.180		21.639	22.281	21.499	23.798	20.532	21.961
CHAINAGE	0.000	46.596	89.788 7.568	97.355 7.568	117.246 19.891	171.432 54.186	244.413 72.981	305.364 60.852

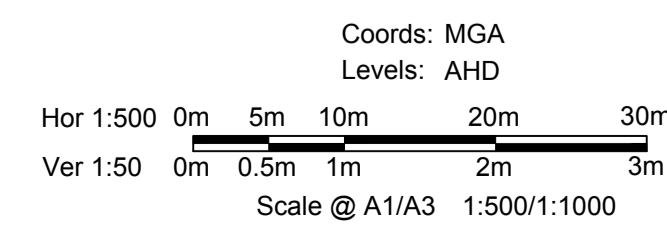
1	MINOR AMENDMENT	22/03/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS	DATE	APPD.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631426
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943572
 Audited R. MASON
 Date 17/08/17
 AN 705025
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND
 DENOTES CLASS 2 CRUSHED ROCK BACKFILL

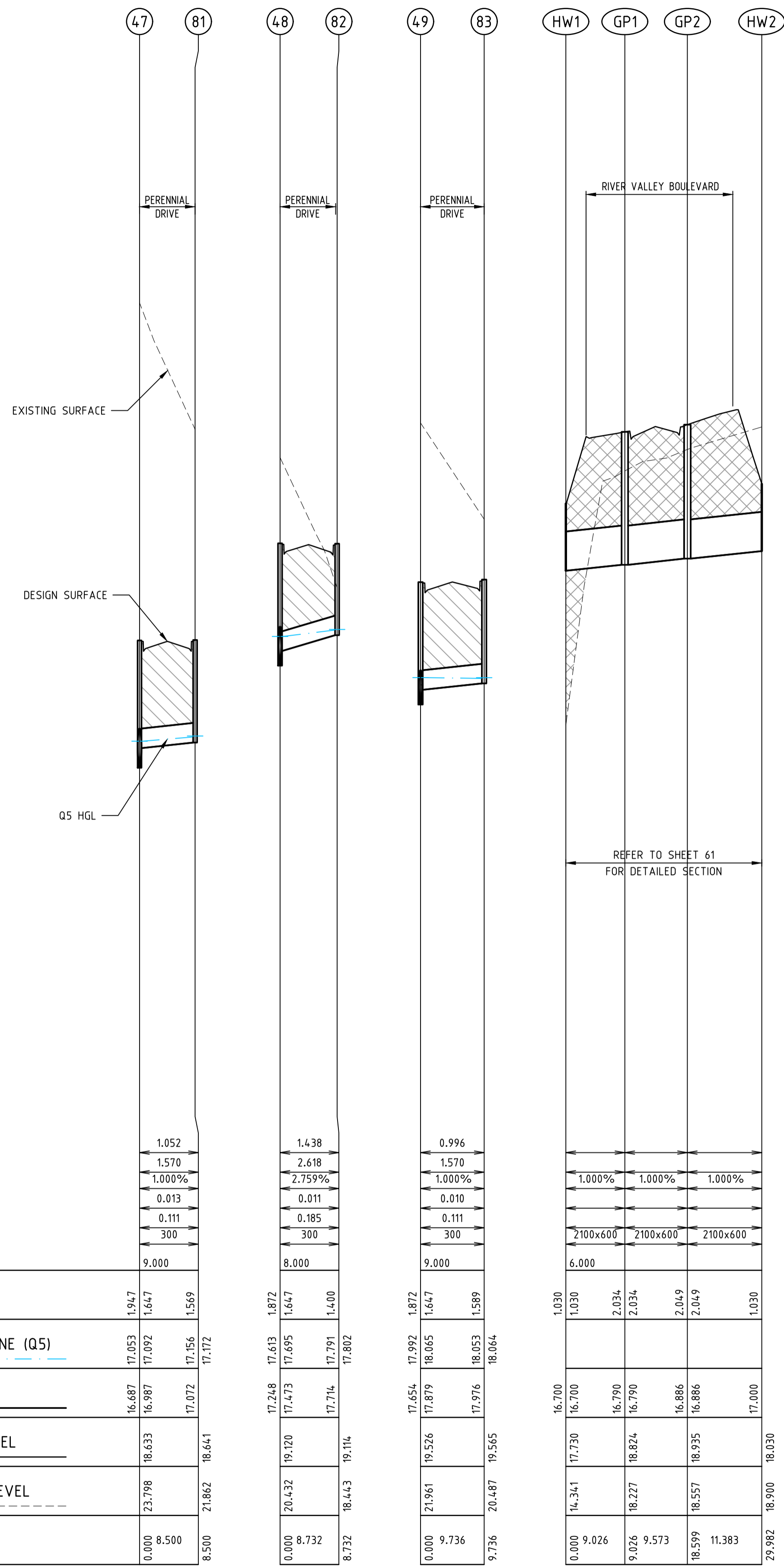


ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 DRAINAGE LONGITUDINAL SECTIONS
SHEET 03 OF 05
 Drawing No. 12050DR03 Rev 1
 Sheet No. 57 CONSTRUCTION
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



PIT SCHEDULE												
PIT NAME	TYPE	EASTING	NORTHING	INTERNAL WD	INTERNAL LEN	INLET DIA	INLET INV LEV	OUTLET DIA	OUTLET INV LEV	PIT SETOUT RL	DEPTH	REMARKS
1	JP	310476.418	5818840.351	T900 B900	T900 B2000	1350	3.793	1350	3.718	5.493	1.775	MW OUTLET CONNECTION. REFER TO MW STD DRG 7251/8/104 & 105 FOR DETAILS
2	JP	310427.867	5818855.630	T900 B900	T900 B2000	1200	5.099	1350	4.099	7.085	2.986	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205. REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS
3	JP	310403.233	5818883.993	T600 B1800	T900 B1800	1200	7.384	1200	6.221	11.664	5.444	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205. REFER TO MW STD DRG 7251/08/410 & 411 FOR HAUNCHING AND REINFORCING DETAILS
4	JP	310403.988	5818887.779	T600 B1800	T900 B1800	1200	8.405	1200	7.481	11.646	4.165	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205. REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS
5	JP	310404.925	5818892.547	T600 B1800	T900 B1800	1200	8.602	1200	8.527	11.621	3.095	REFER TO SHEET 64 FOR PIT DETAIL. REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS.
6	CGSEP	310406.478	5818901.841	T600 B1200	T900 B3000	900	8.949	1200	8.649	11.566	2.918	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-201 & S-255 & REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS
7	JP	310408.723	5818913.324	T600 B1200	T900 B1650	900	9.082	900	9.007	11.629	2.622	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205. REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS
8	JP	310401.143	5818924.587	T600 B1200	T900 B1650	900	9.225	900	9.150	11.621	2.471	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205. REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS
9	SEP	310407.646	5818957.857	T600 B1200	T900 B900	900	9.470	900	9.395	11.790	2.396	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
10	SEP	310412.955	5818989.280	T600 B1200	T900 B900	825	9.704	900	9.629	11.951	2.322	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
35	CGSEP	310397.056	5818903.683	T600 B1050	T900 B3000	675	9.353	900	9.128	11.514	2.386	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-201 & S-255 & REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS
36	SEP	310385.965	5818846.943	T600 B1050	T900 B900	675	9.717	675	9.642	11.804	2.161	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
TP10	TP	310381.552	5818800.898			675	9.949	675	9.949	12.040	2.091	TANGENT POINT
37	SEP	310382.162	5818778.813	T600 B1050	T900 B900	600	10.134	675	10.059	12.139	2.080	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
38	SEP	310383.002	5818738.458	T600 B1050	T900 B900	600	11.017	600	10.942	12.879	1.937	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
39	SEP	310375.079	5818724.526	T600 B600	T900 B1050	600	11.691	600	11.616	14.124	2.508	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
40	SEP	310372.999	5818716.063	T600 B900	T900 B900	375	12.003	600	11.778	14.255	2.476	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
41	SEP	310383.738	5818703.103	600	900	300	12.247	375	12.172	13.918	1.746	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
42	SEP	310384.882	5818648.149	600	900	300	14.239	300	14.164	15.970	1.806	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
TP11	TP	310389.582	5818618.758			300	15.732	300	15.732	17.381	1.649	TANGENT POINT
43	SEP	310391.407	5818612.897	T600 B900	T900 B900	300	16.114	300	16.039	17.688	1.648	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
44	SEP	310330.964	5818733.703	T600 B900	T900 B900	600	14.957	600	14.882	16.963	2.081	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
45	SEP	310311.595	5818771.406	T600 B900	T900 B900	600	16.112	600	16.037	17.994	1.957	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
TP12	TP	310310.844	5818778.931			600	16.162	600	16.162	18.070	1.907	TANGENT POINT
46	JP	310310.580	5818798.820	T600 B900	T900 B900	600	16.370	600	16.295	18.264	1.968	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
47	SEP	310314.657	5818852.764	T600 B900	T900 B900	525	16.762	600	16.687	18.633	1.947	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
48	SEP	310328.609	5818924.399	T600 B900	T900 B900	525	17.323	525	17.248	19.120	1.872	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
49	SEP	310340.284	5818984.121	T600 B900	T900 B900	450	17.729	525	17.654	19.526	1.872	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
TP13	TP	310344.395	5819005.152			450	17.872	450	17.872	19.668	1.797	TANGENT POINT
59	JP	310379.694	5818995.540	600	900	375	13.427	375	13.352	16.929	3.577	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
60	JP	310377.587	5818984.438	600	900	375	13.559	375	13.484	16.756	3.272	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
61	JP	310365.593	5818923.080	600	900	300	13.946	375	13.871	16.318	2.447	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
62	JP	310352.558	5818856.341	600	900	300	14.361	300	14.286	15.968	1.682	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
TP16	TP	310351.517	5818851.071			300	14.388	300	14.388	15.968	1.580	TANGENT POINT
63	JP	310347.072	5818805.153	600	900	225	14.694	300	14.619	15.658	1.039	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
64	JP	310347.489	5818785.155	600	900	225	14.794	225	14.794	15.625	0.831	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-205 & S-255
EP59A	EP	310380.356	5819000.948			300	14.361	300	14.361	16.881	2.520	END POINT
67	SEP	310400.573	5818615.752	600	900			300	16.210	17.758	1.547	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
68	SEP	310394.480	5818648.349	600	900			300	14.335	16.040	1.705	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
69	SEP	310393.336	5818703.303	600	900			300	12.343	13.912	1.569	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
70	SEP	310391.760	5818779.013	600	900			300	10.530	12.198	1.668	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
71	SEP	310395.386	5818845.101	600	900			300	10.193	11.862	1.669	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
72	SEP	310417.068	5818956.015	600	900			300	10.180	11.849	1.669	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
79	SEP	310336.868	5818739.819	600	900			300	15.267	16.967	1.700	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
80	SEP	310320.013	5818772.579	600	900			300	16.422	18.002	1.580	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
81	SEP	310323.029	5818851.294	600	900			300	17.072	18.641	1.569	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
82	SEP	310336.568	5818920.806	600	900			300	17.714	19.114	1.400	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
83	SEP	310349.537	5818987.150	600	900			300	17.976	19.565	1.589	REFER TO BRIMBANK CITY COUNCIL STANDARD DRAWINGS S-200 & S-255
HW1	EW	310416.260	5818595.207			2100x600	16.700			17.730	1.030	PROVIDE HEADWALL TO SUIT 2100x600 RCBC
GP1	GP	310407.576	5818592.746	T1000 B1000	T1000 B2700	2100x600	16.790	2100x600	16.790	18.824	2.034	GRATED PIT. REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS. PROVIDE 1000x1000 GRATED LID
GP2	GP	310398.161	5818591.016	T1000 B1000	T1000 B2700	2100x600	16.886	2100x600	16.886	18.935	2.049	GRATED PIT. REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS. PROVIDE 1000x1000 GRATED LID
HW2	EW	310386.843	5818589.799					2100x600	17.000	18.030	1.030	PROVIDE HEADWALL TO SUIT 2100x600 RCBC
GP3	GP	310425.524	5818657.490	450	450					6.394	7.144	450x450 GRATED PIT
HW3	EW	310432.911	5818658.209			225PVC	6.250					END WALL

Drawing File: C:\12_Sydney\12050-River Valley - Stage 7A\8\Coord\DWG
 Drawing No: 12050DR05
 Date/Time: Fri Jul 27, 2018 - 6:14pm - Jacobs/Burns

VELOCITY (m/s)	1.052	1.438	0.996	1.000%	1.000%	1.000%
PIPE GRADE VELOCITY	1.570	2.618	1.570	1.000%	1.000%	1.000%
PIPE GRADE %	0.011	0.013	0.010	0.011	0.011	0.011
PIPE FLOW (m ³ /s)	0.111	0.185	0.111	300	300	300
PIPE CAPACITY AT GRADE	300	300	300	2100x600	2100x600	2100x600
PIPE SIZE (mm)	9.000	8.000	9.000	6.000	1.030	1.030
DATUM	9.000	8.000	9.000	6.000	1.030	1.030
DEPTH TO INVERT	17.246	17.613	17.992	16.700	16.700	17.000
HYDRAULIC GRADE LINE (Q5)	17.473	17.695	17.879	16.790	16.790	16.886
INVERT LEVEL	17.714	17.791	17.802	16.790	16.790	16.886
DESIGN SURFACE LEVEL	19.120	19.114	19.526	17.730	18.824	18.935
EXISTING SURFACE LEVEL	23.798	18.443	20.487	14.341	18.227	18.557
CHAINAGE	0.000	8.732	9.736	0.000	9.026	11.383

NO	DESCRIPTION	DATE	APP'D.
4	MINOR AMENDMENT	22/03/18	TL
3	WATER QUALITY STRUCTURES AMENDED	25/01/18	TL
2	COUNCIL COMMENTS	26/10/17	TL
1	HABITAT CULVERT AMENDMENTS	11/10/17	TL
0	CONSTRUCTION ISSUE	25/09/17	TL
REV	AMENDMENTS	DATE	APP'D.

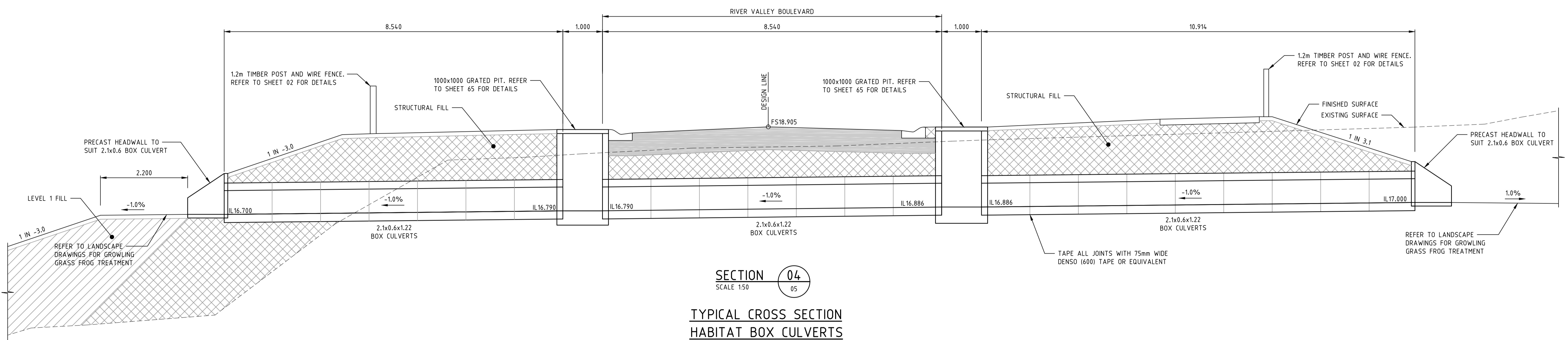
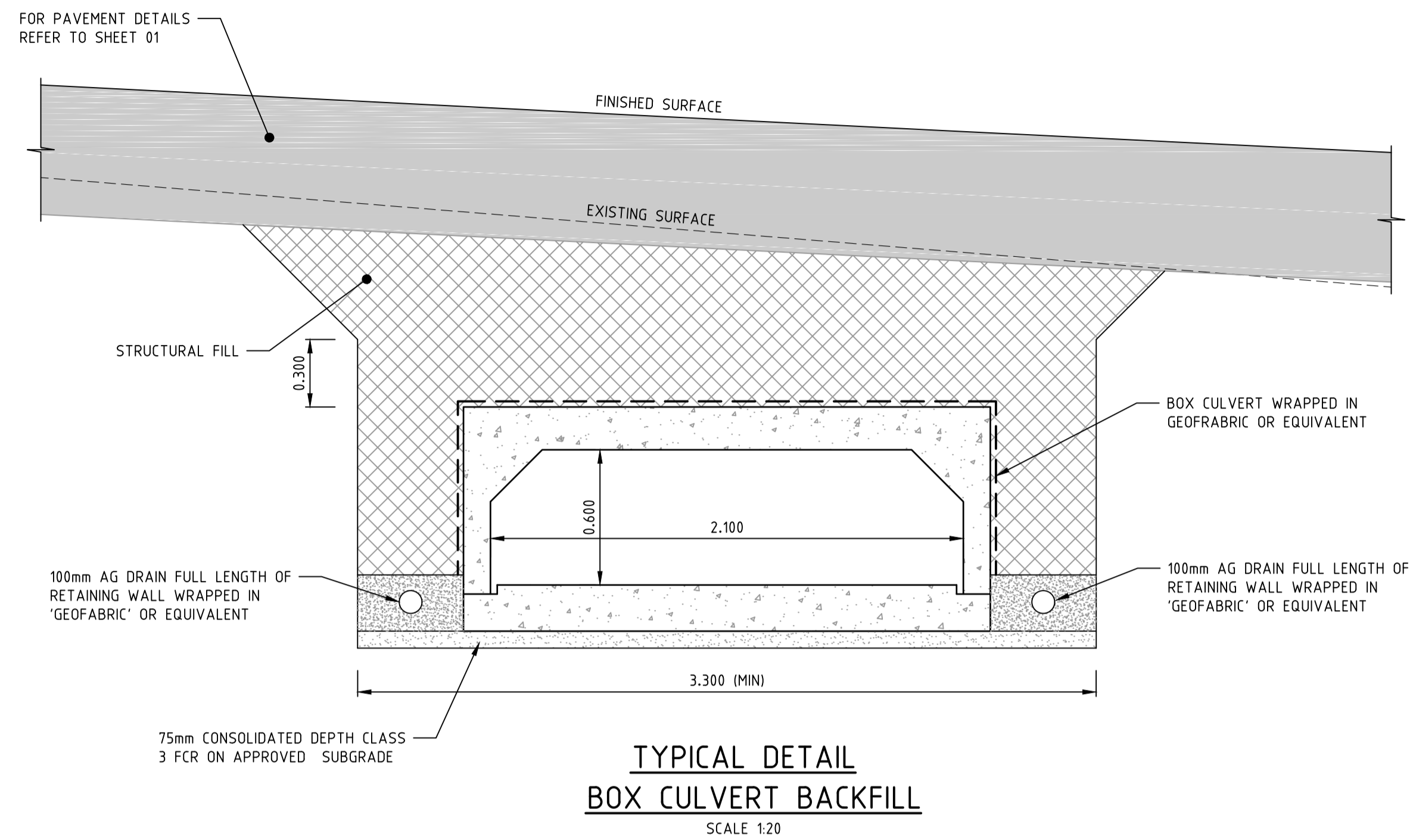
Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631428
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943574
 Audited R. MASON
 Date 17/08/17
 AN 705027
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND
 DENOTES STRUCTURAL FILL
 DENOTES CLASS 2 CRUSHED ROCK BACKFILL

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
DRAINAGE LONGITUDINAL SECTIONS
SHEET 05 OF 05
Drawing No. 12050DR05 Rev 4
 Sheet No. 59 **CONSTRUCTION**
 Coords: MGA
 Levels: AHD
 Hor 1:500 0m 5m 10m 20m 30m
 Ver 1:50 0m 0.5m 1m 2m 3m
 Scale @ A1/A3 1:500/1:1000
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



Drawing File: C:\121_Synergy\12050-River Valley - Stage 7A\8\locat\04
 Drawing Name: 12050-River Valley - Stage 7A\8\locat\04
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns

REV	AMENDMENTS	DATE	APP'D.
1	MINOR AMENDMENT	22/03/18	TL
0	CONSTRUCTION ISSUE	26/10/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631562
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943860
 Audited R. MASON
 Date 17/08/17
 AN 705095
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888182

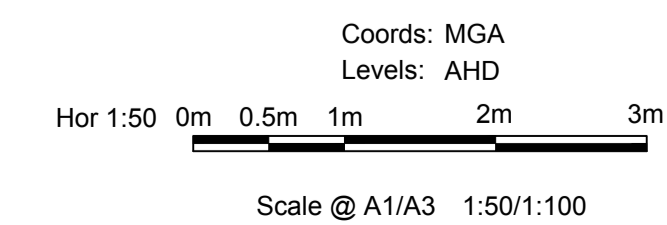
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 DRAINAGE HABITAT BOX CULVERT DETAILS

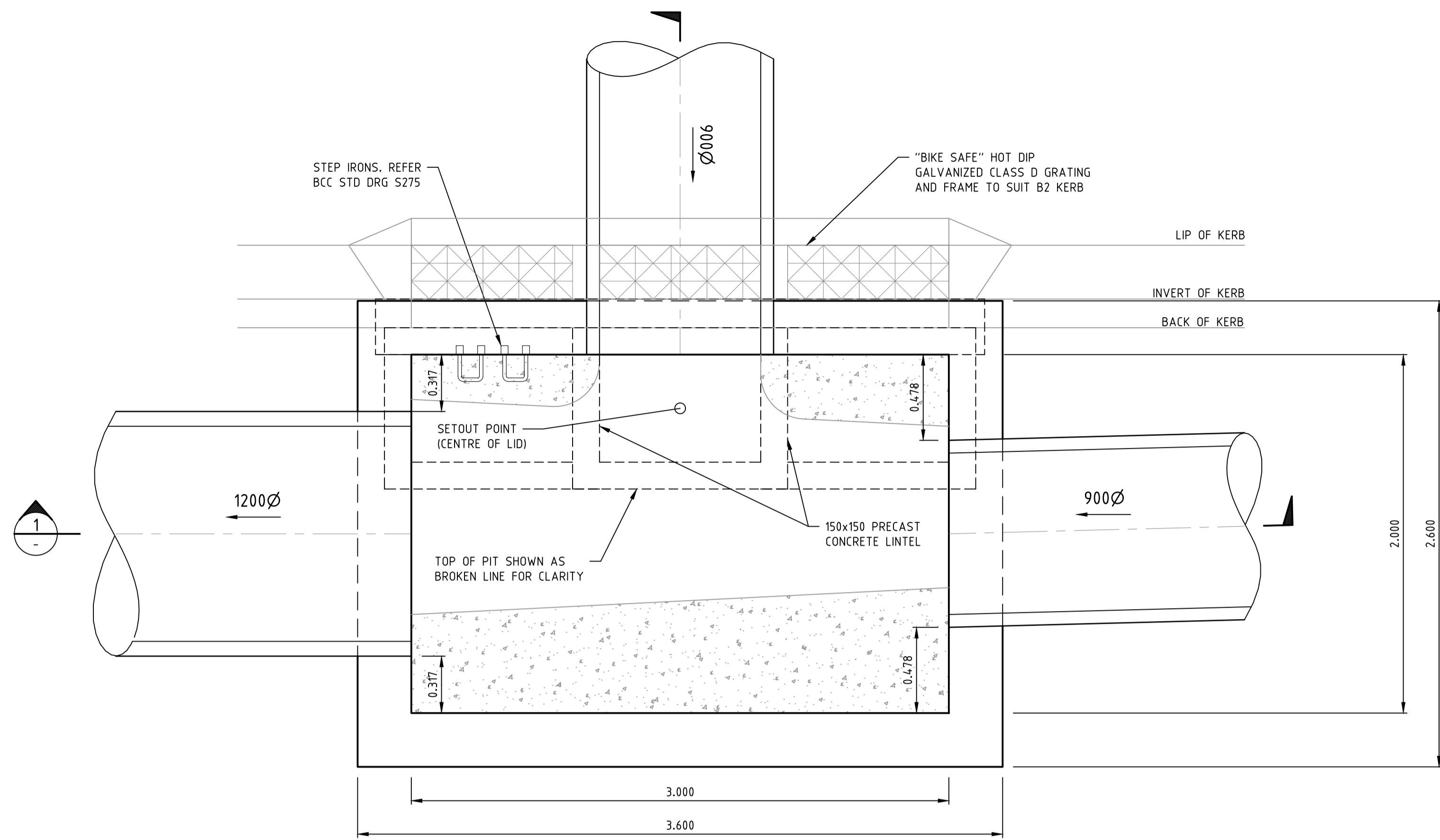


ABN 78 429 221 049
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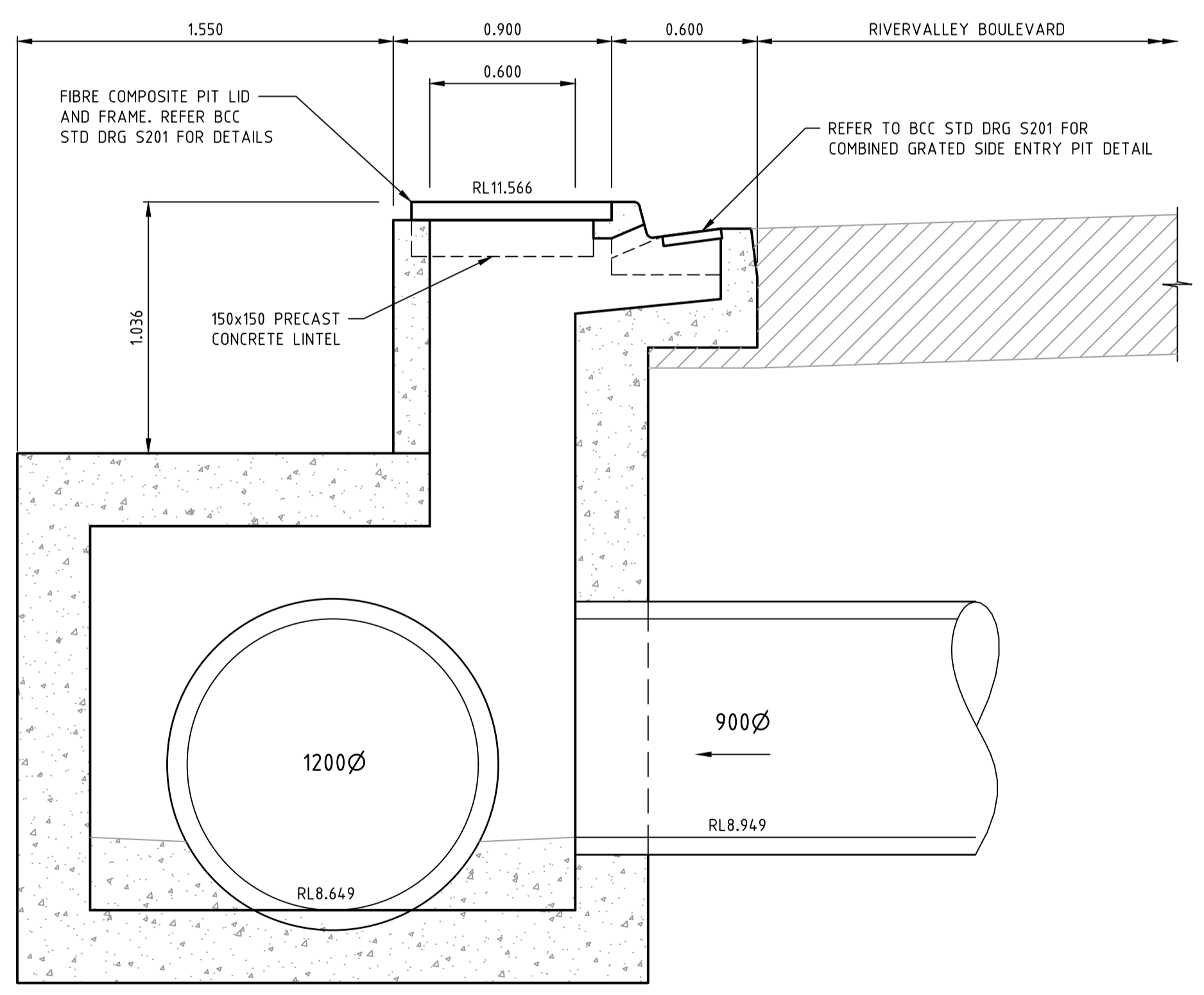
Drawing No. **12050DR07** Rev 1
 Sheet No. 61 **CONSTRUCTION**
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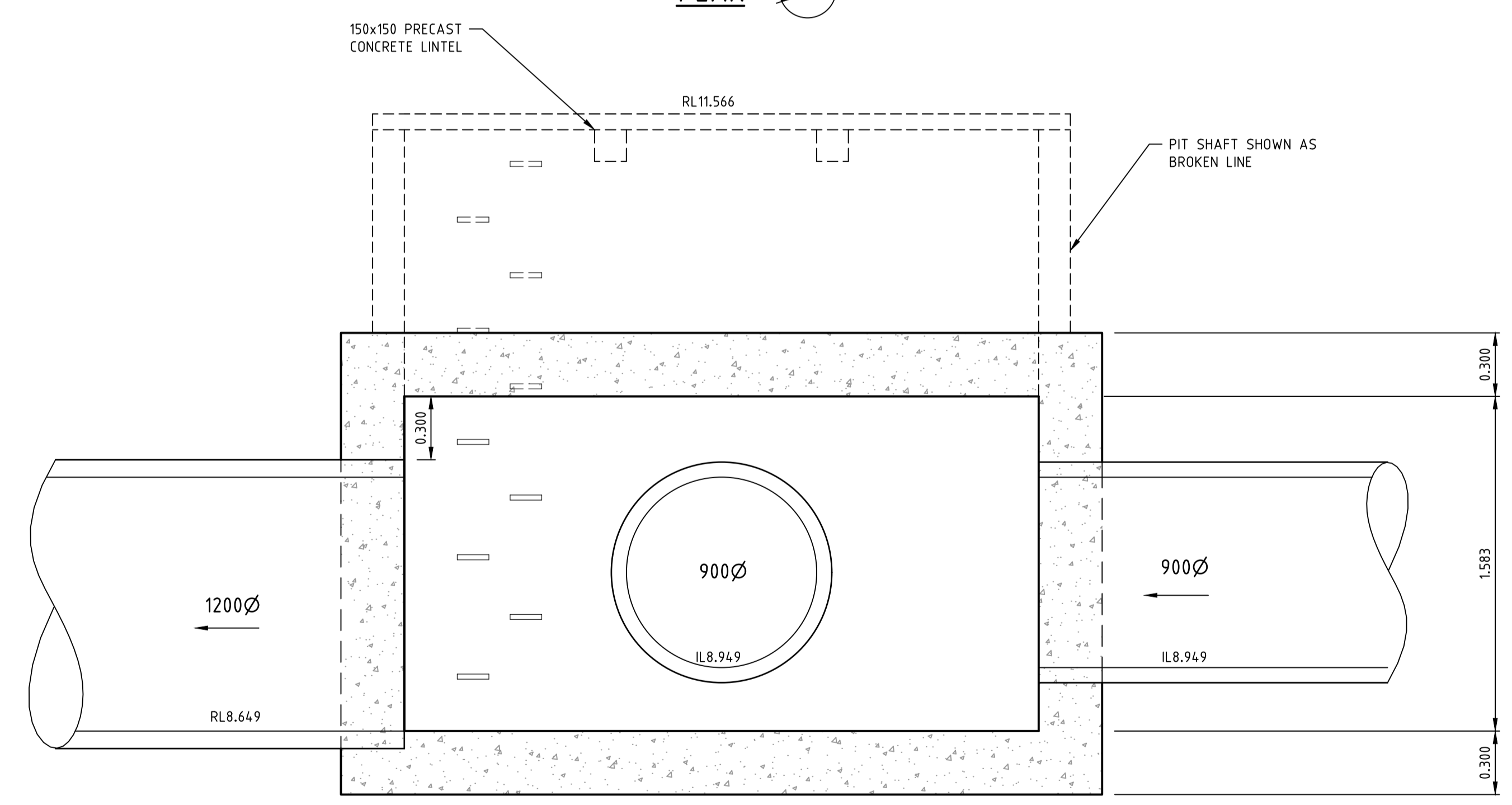


NOTE:
REFER TO MW STD DRG 7251/08/408 & 409 FOR
HAUNCHING AND REINFORCING DETAILS

PLAN



SECTION 2



SECTION 1

PIT 6
3 No. COMBINED GRATED SIDE ENTRY PITS
REFER BCC STD DRG S201
SCALE 1:20

Drawing File: C:\12_Synergy\1\2050-river valley - Stage 7A\8\locat\001
 Drawing No: 62000001
 Date/Time: Fri Jul 27, 2018 - 6:14pm -- jacob.burns--

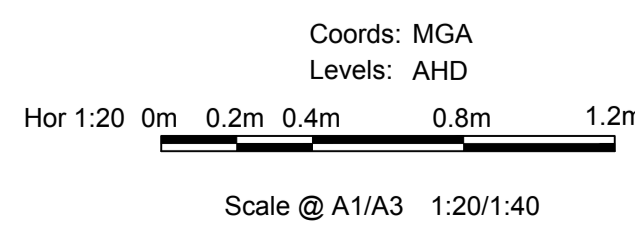
REV	AMENDMENTS	DATE	APP'D.
1	COUNCIL COMMENTS	26/10/17	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631430
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943576
 Audited R. MASON
 Date 17/08/17
 AN 705029
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

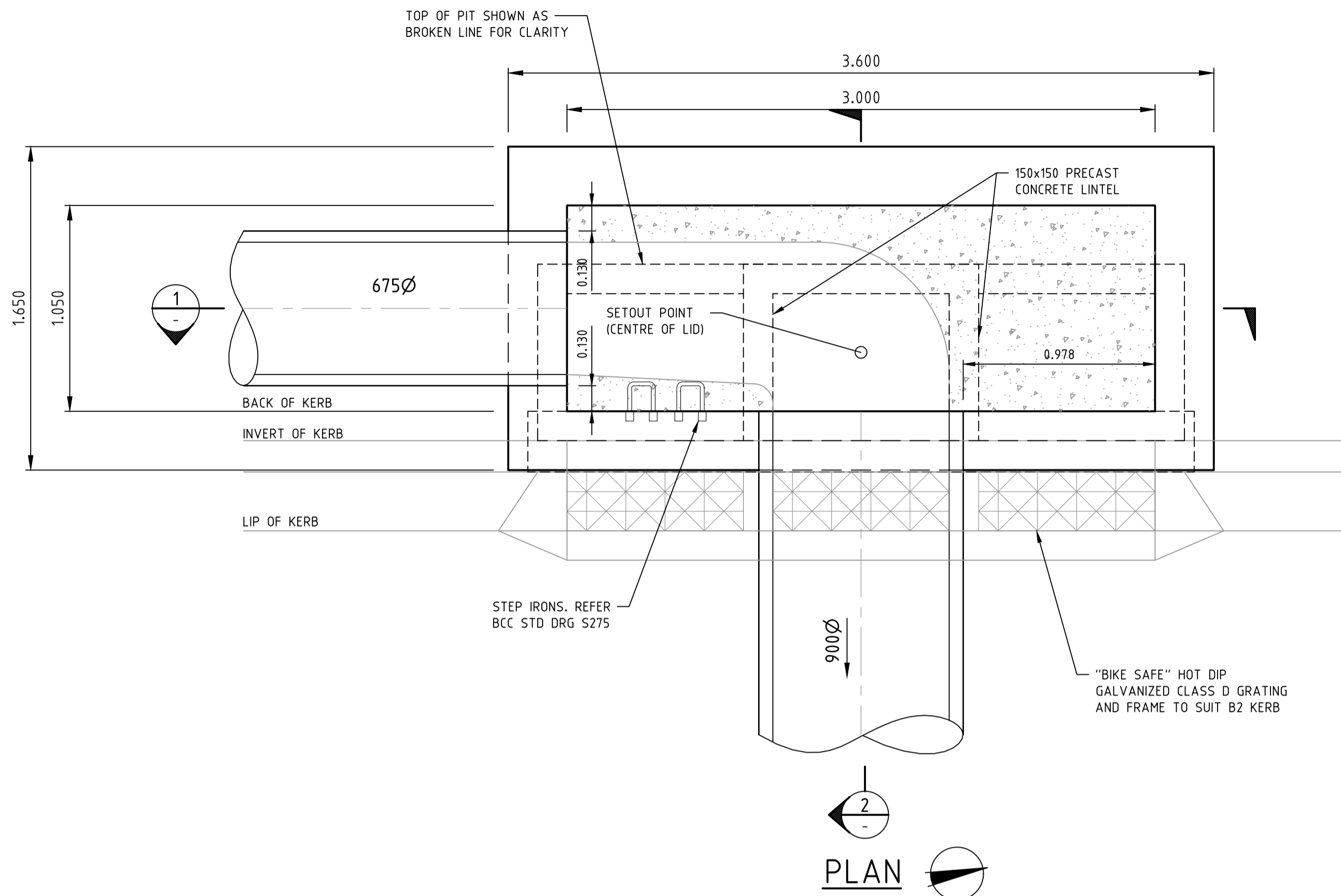
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



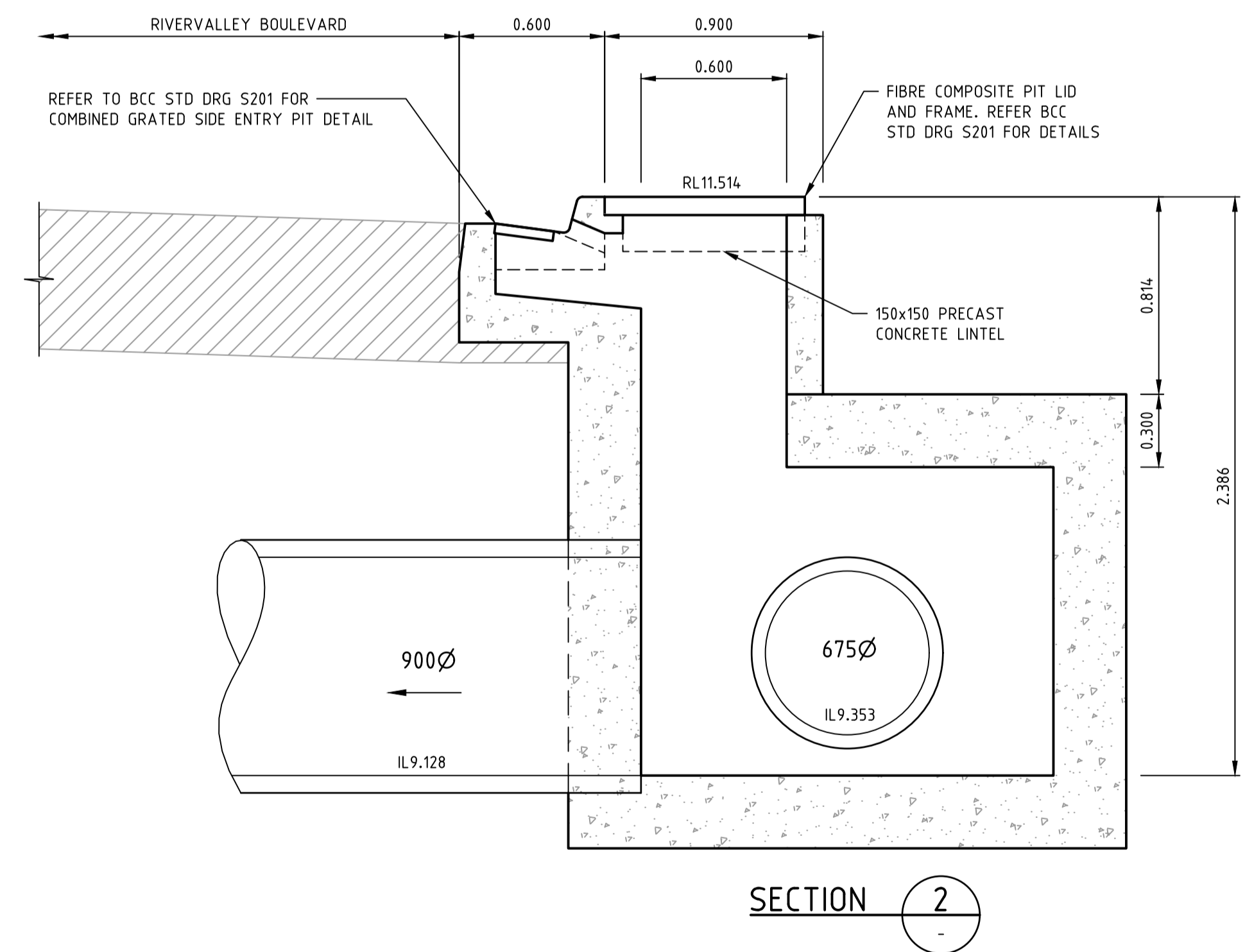
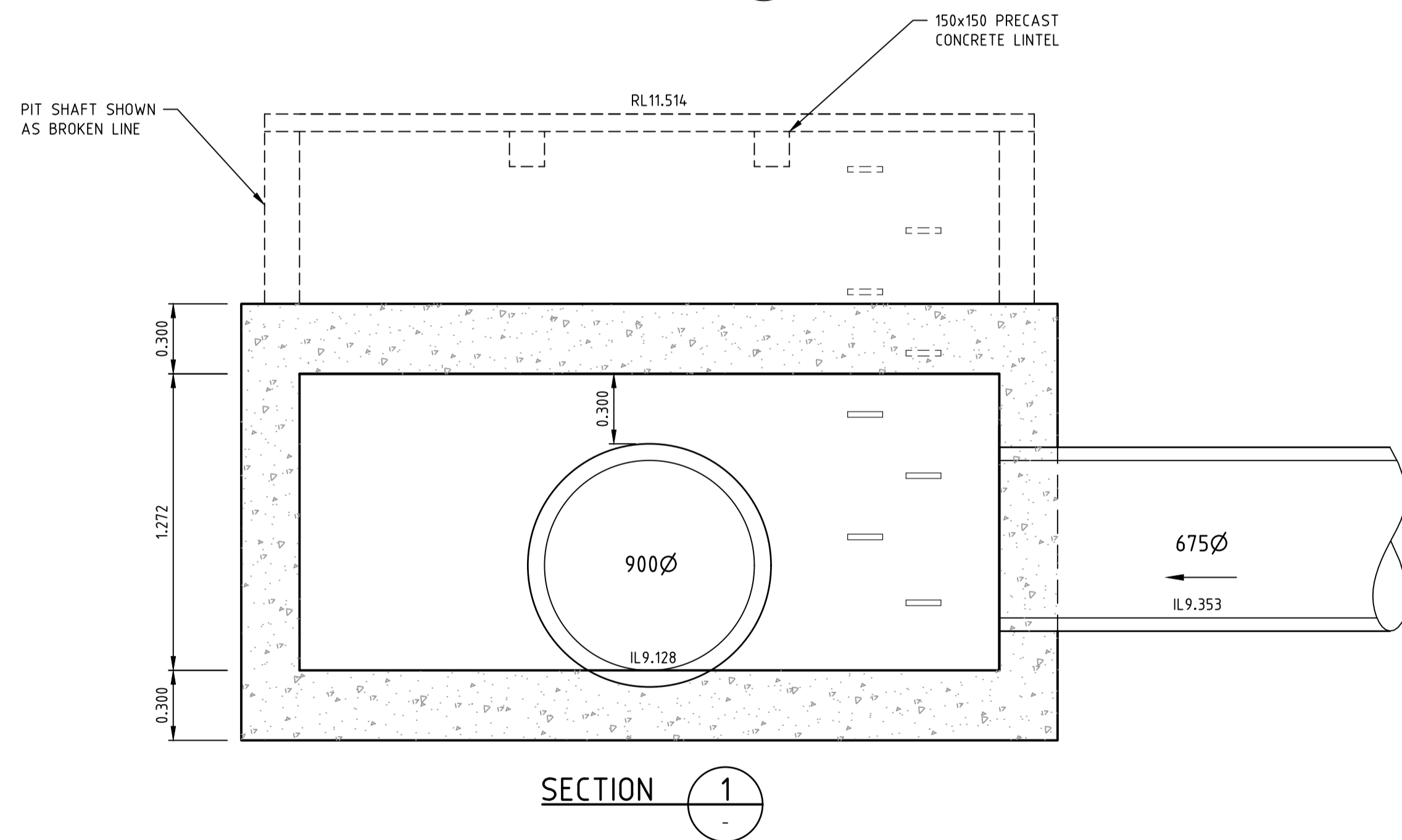
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 DRAINAGE PIT DETAILS
 SHEET 01 OF 04
 Drawing No. 12050PD01 Rev 1
 Sheet No. 62 CONSTRUCTION
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NOTE:
REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS



PIT 35
3 No. COMBINED GRATED SIDE ENTRY PITS
REFER BCC STD DRG S201
SCALE 1:20

Drawing File: C:\19_Synergy\1\2050-River Valley - Stage 7A\8\loc\001
 Drawing No: 63
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns

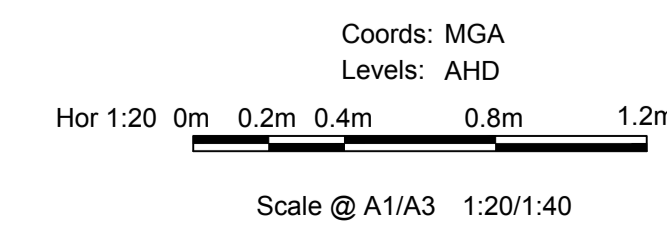
REV	AMENDMENTS	DATE	APP'D.
1	COUNCIL COMMENTS	26/10/17	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631431
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943577
 Audited R. MASON
 Date 17/08/17
 AN 705030
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

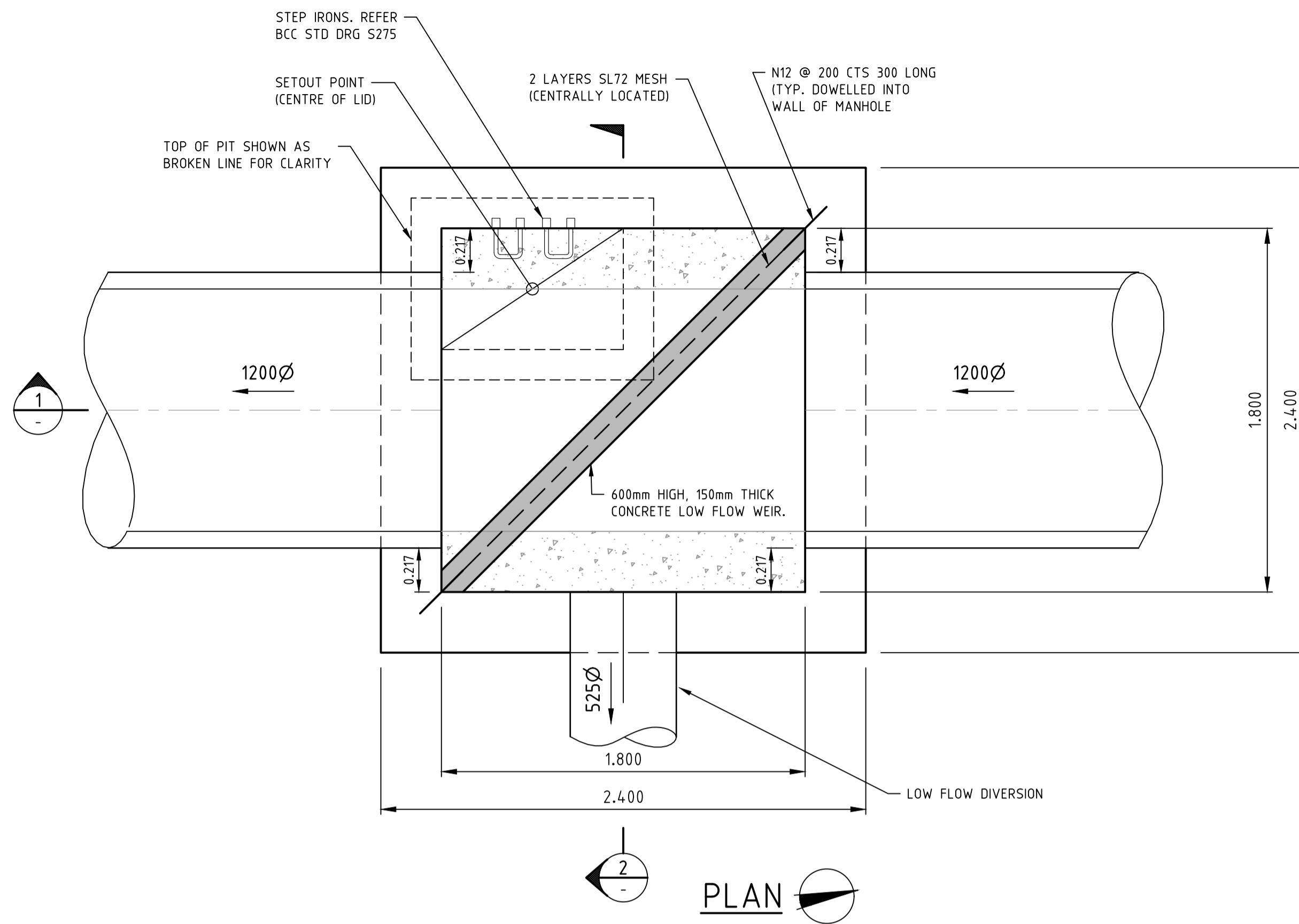


ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 DRAINAGE PIT DETAILS
 SHEET 02 OF 04
Drawing No. 12050PD02 Rev 1
 Sheet No. 63 **CONSTRUCTION**
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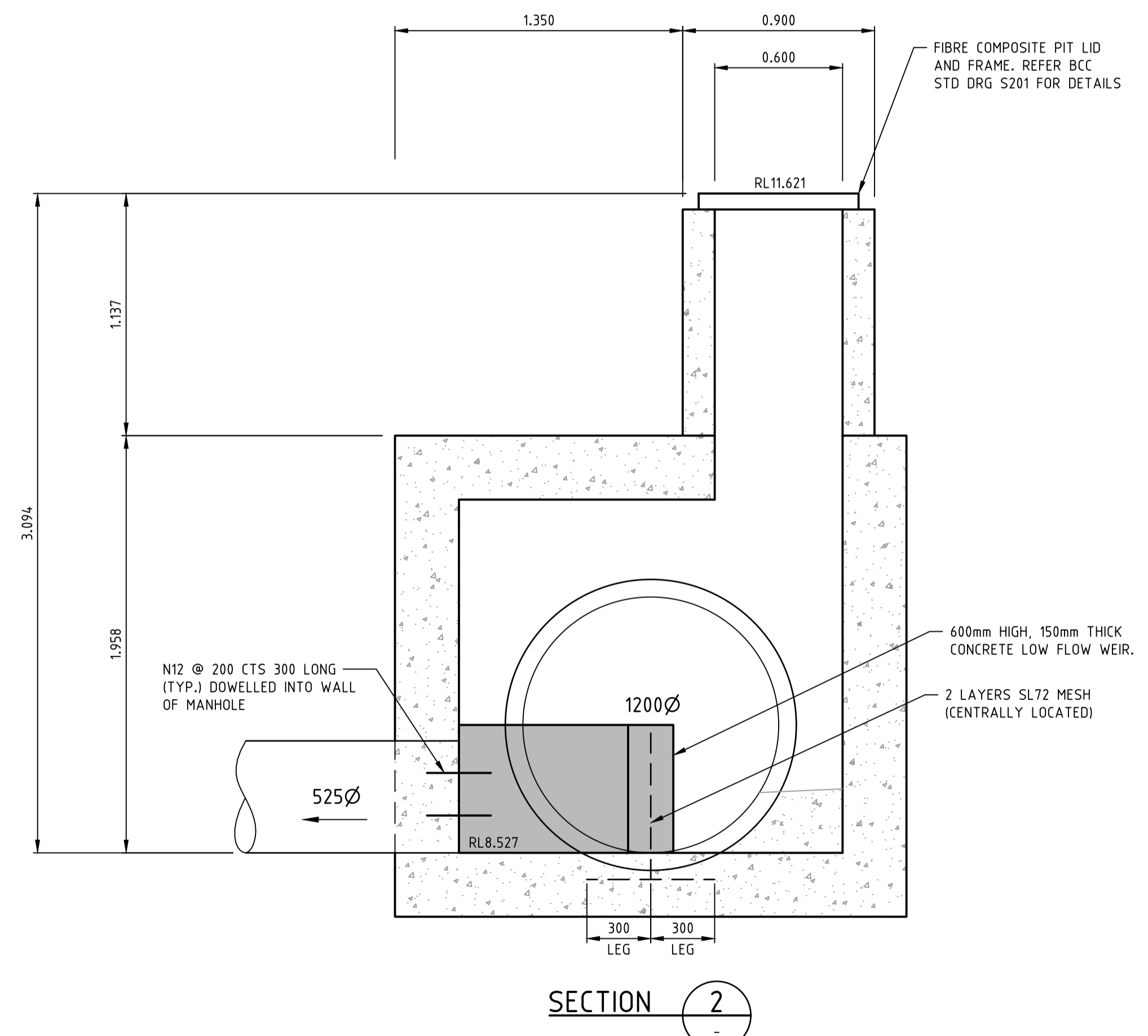
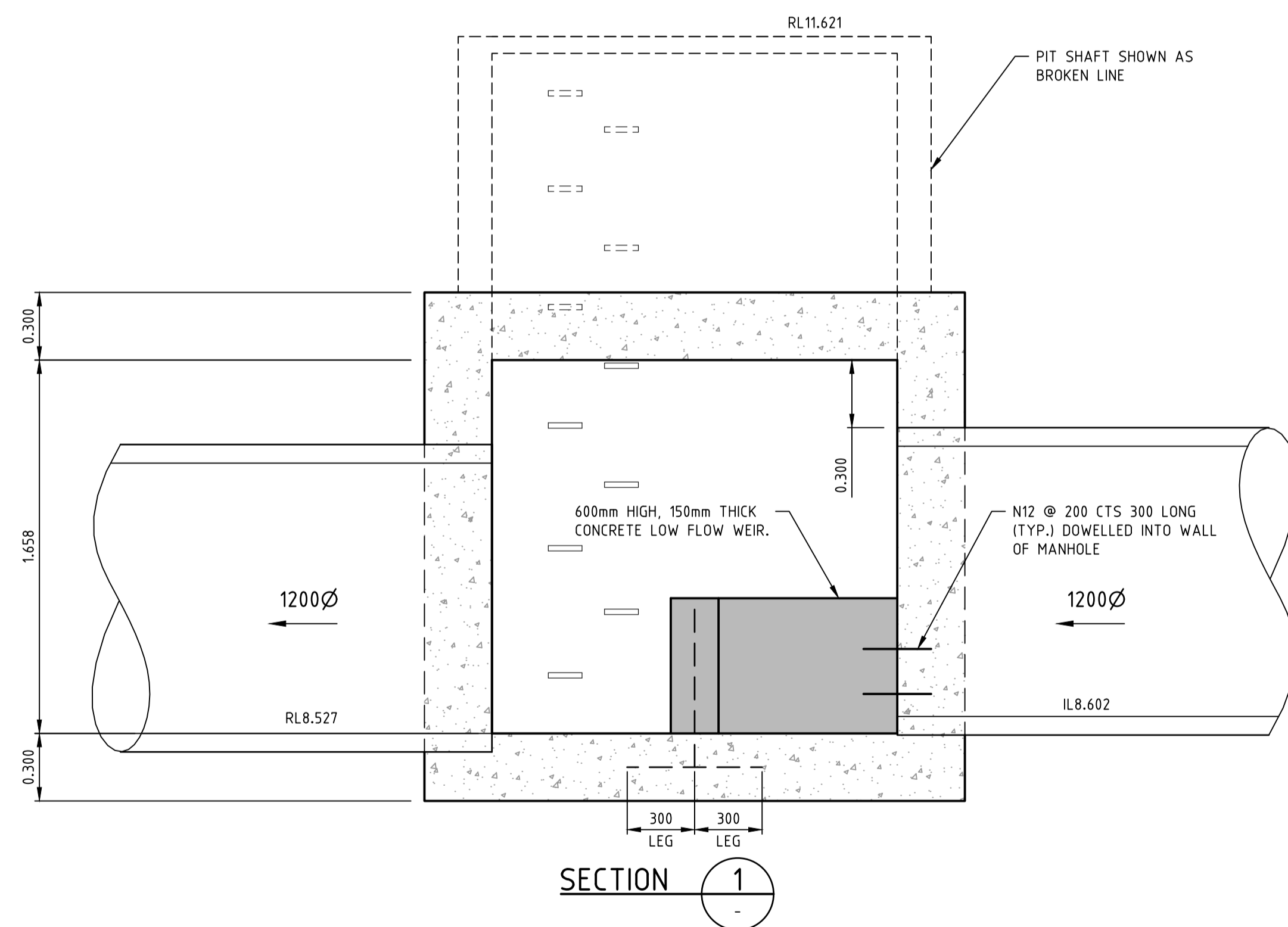


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NOTE:
REFER TO MW STD DRG 7251/08/408 & 409 FOR HAUNCHING AND REINFORCING DETAILS



PIT 5
JUNCTION PIT WITH DIVERSION WEIR
REFER BCC STD DRG 5205
SCALE 1:20

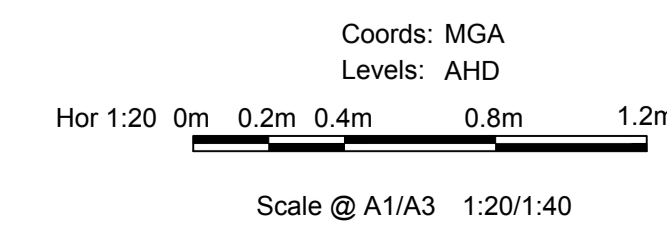
REV	AMENDMENTS	DATE	APP'D.
2	WATER QUALITY STRUCTURES AMENDED	25/01/18	TL
1	COUNCIL COMMENTS	26/10/17	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
AN 1631521
Verified T.THAVENDRAN
Date 20/07/17
AN 943578
Audited R. MASON
Date 17/08/17
AN 705031
Approved T.LIAKOPOULOS
Date 04/09/17
AN 888081

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

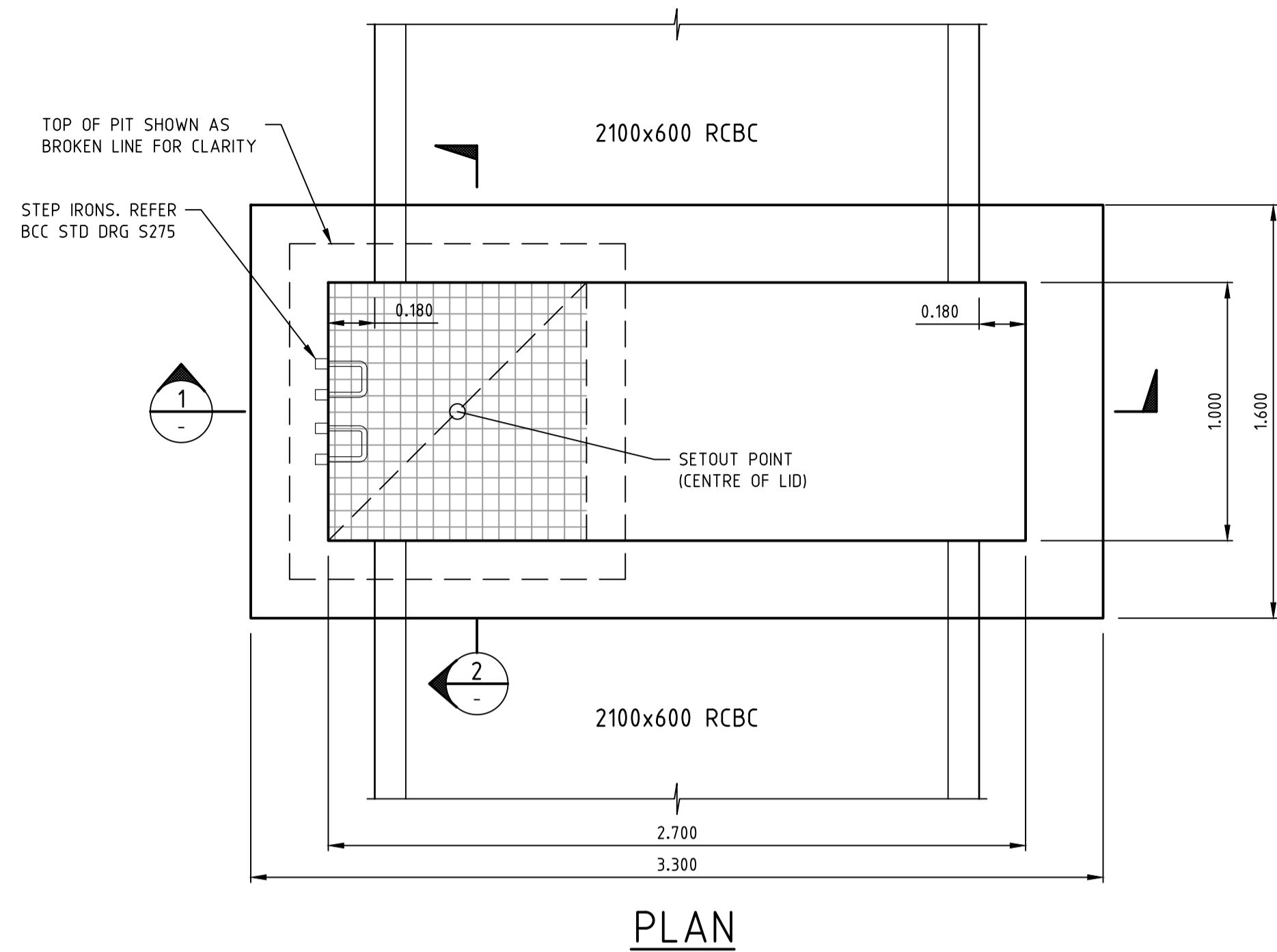


ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
DRAINAGE PIT DETAILS
SHEET 03 OF 04
Drawing No. 12050PD03 Rev 2
Sheet No. 64 CONSTRUCTION
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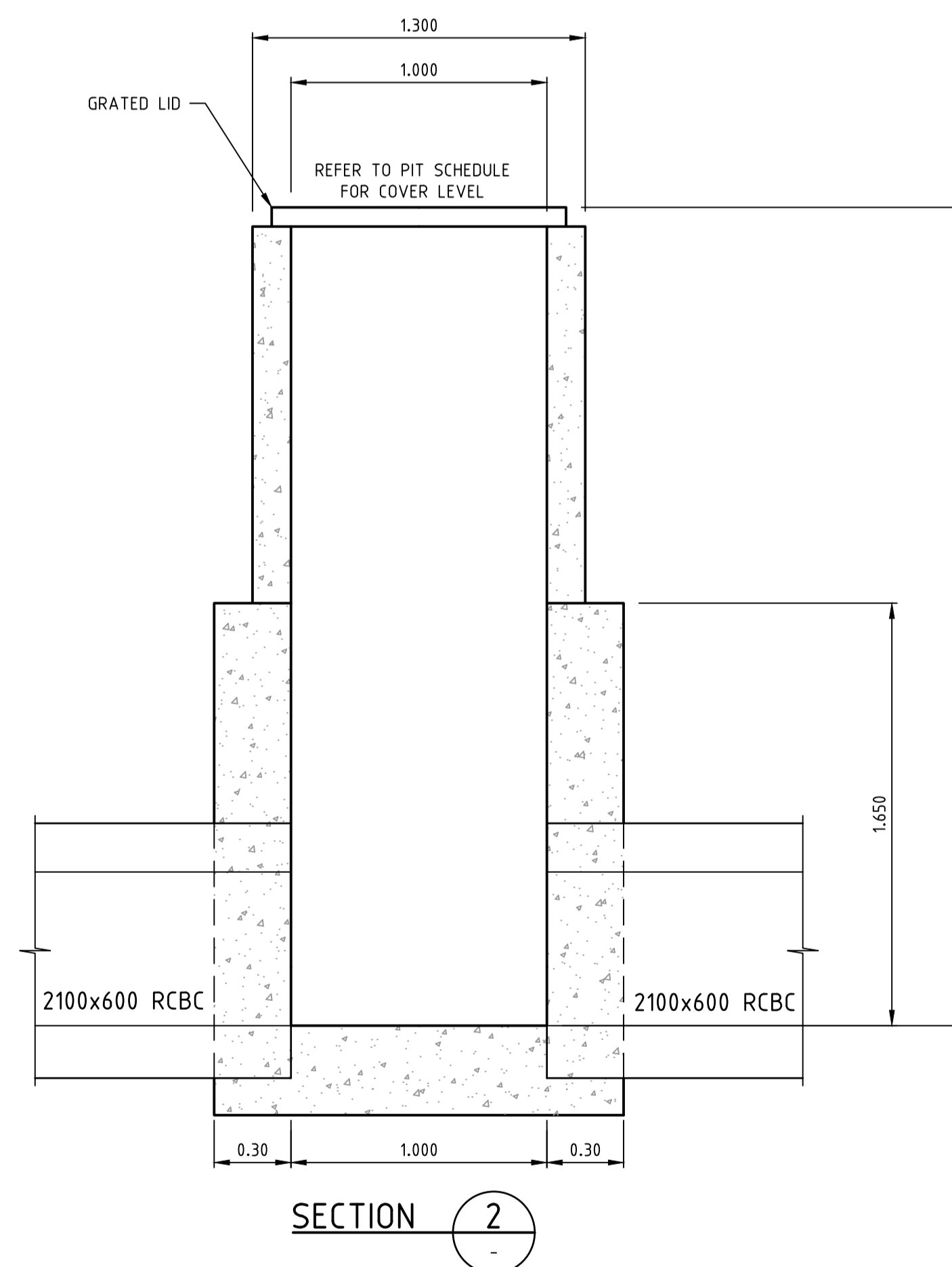
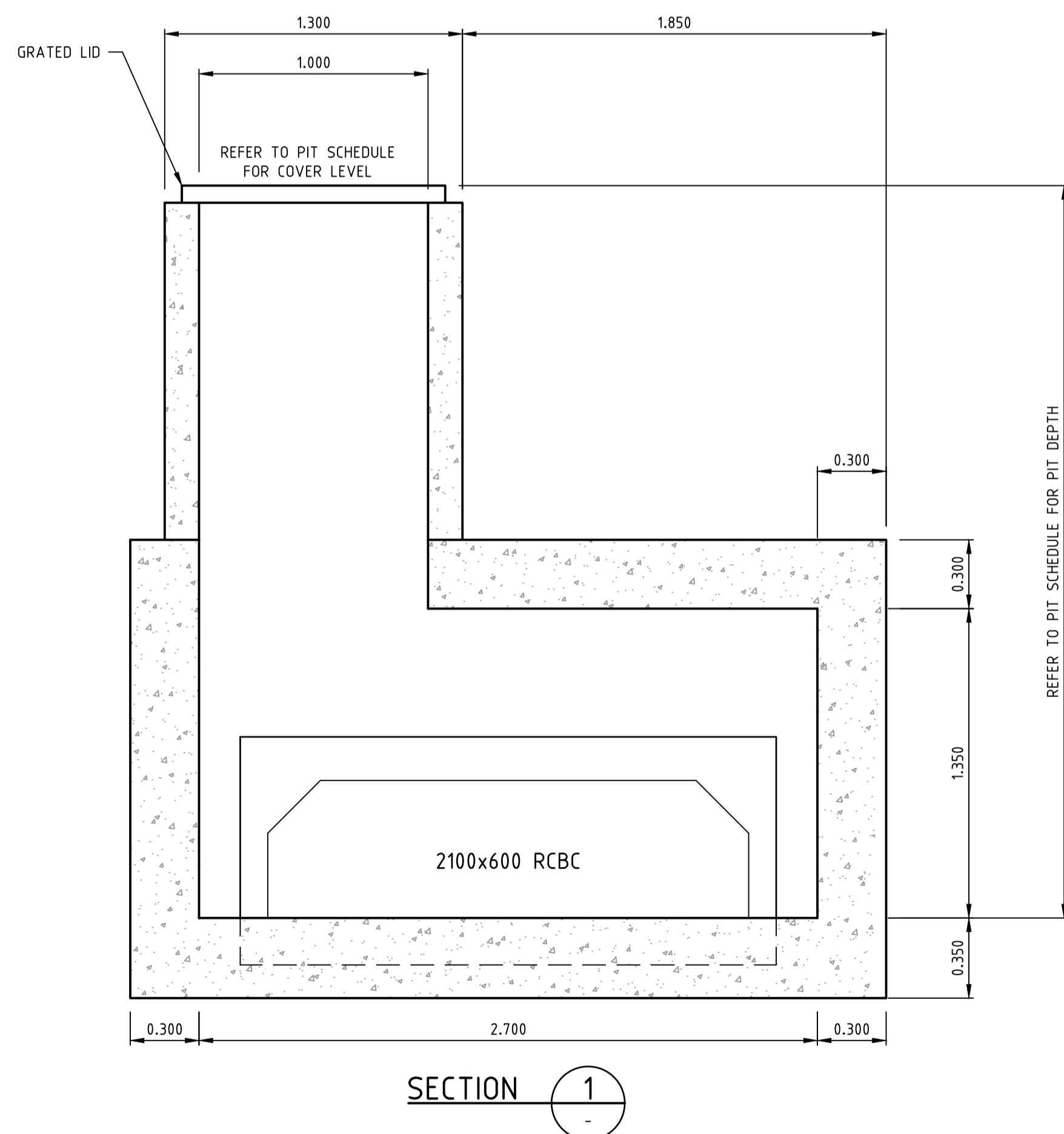
ABN 78 429 221 049
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NOTE:
REFER TO MW STD DRG 7251/08/408 & 409 FOR
HAUNCHING AND REINFORCING DETAILS



PITS GP1 & GP2
GRADED PIT
SCALE 1:20

Drawing File: C:\19_Synergy\1\2050-river valley - Stage 7A\8\locat\GP1.dwg
 Drawing Date: 26/10/2018
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns

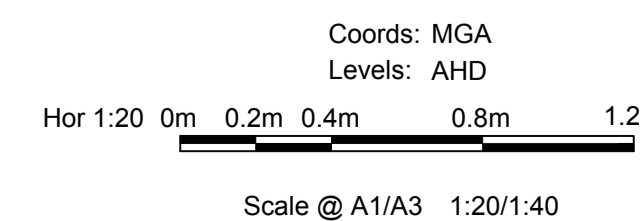
REV	AMENDMENTS	DATE	APP'D.
0	CONSTRUCTION ISSUE	26/10/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631563
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943861
 Audited R.MASON
 Date 17/08/17
 AN 705096
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888183

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



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 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 DRAINAGE PIT DETAILS
 SHEET 04 OF 04
 Drawing No. 12050PD04 Rev 0
 Sheet No. 65 CONSTRUCTION
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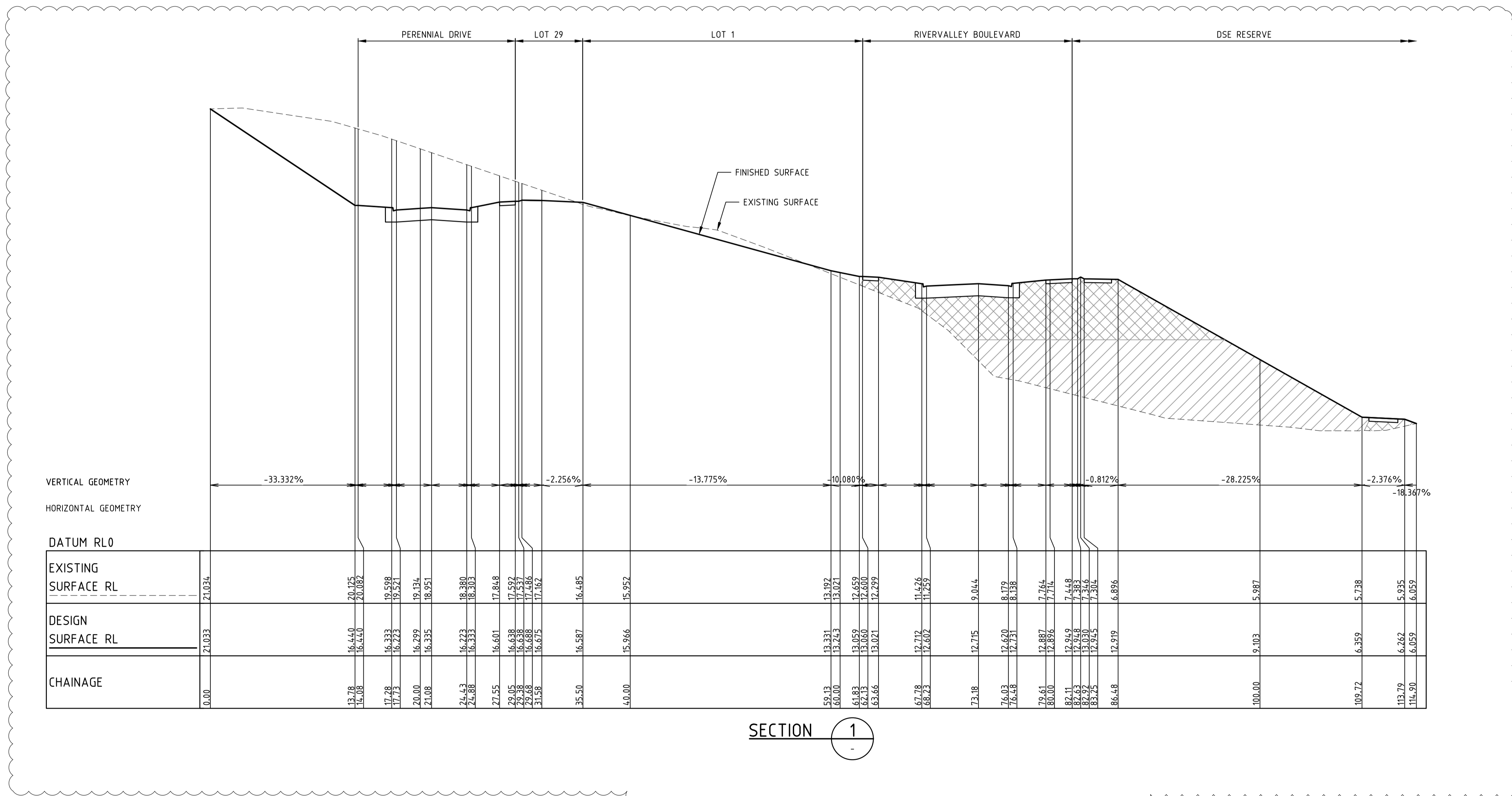
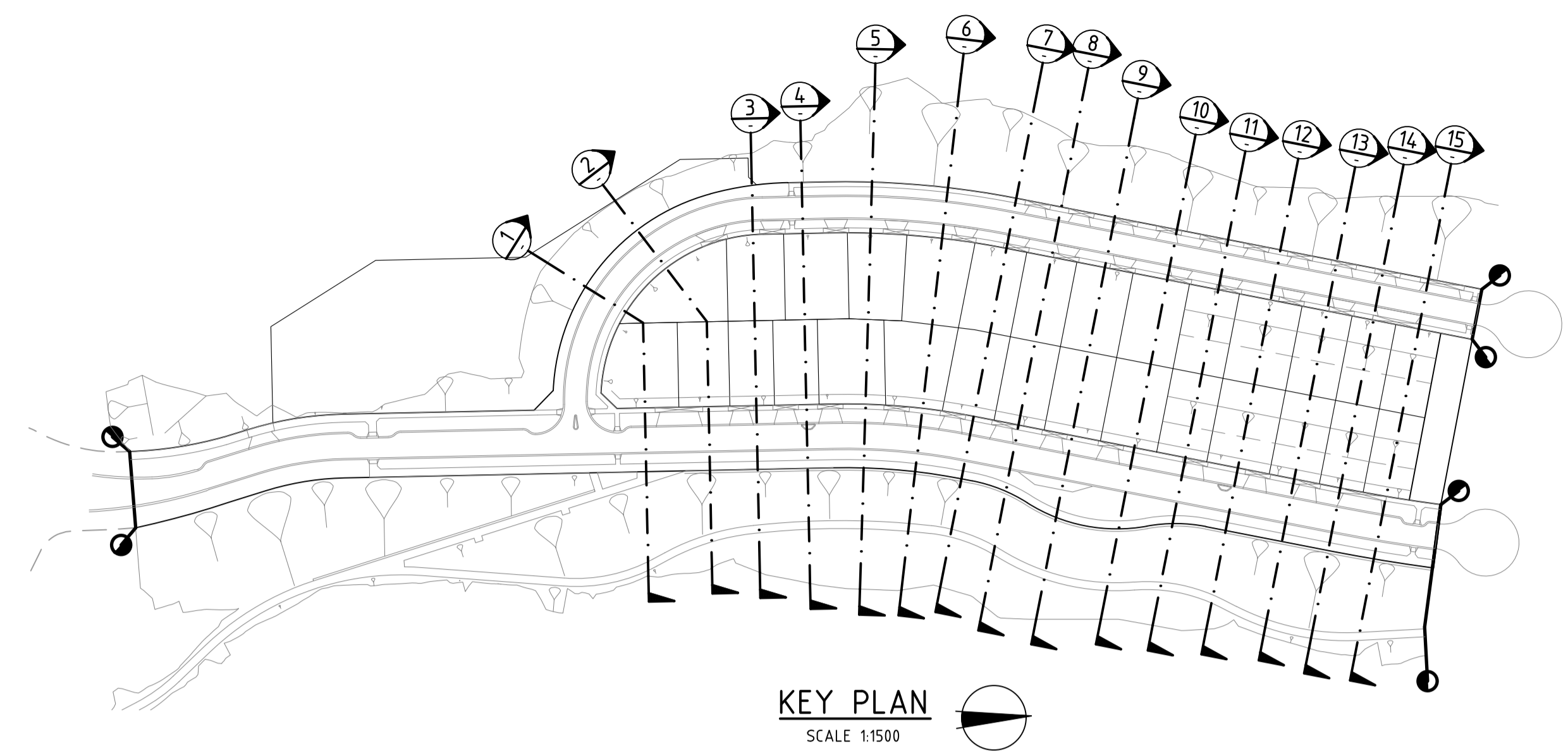


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Drawing File: C:\Users\jacob.burns\OneDrive - Jacobs\Documents\12050-SS01 - River Valley - Stage 7A - 08\12050-SS01.dwg
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns



NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631432
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943579
 Audited R. MASON
 Date 17/08/17
 AN 705032
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

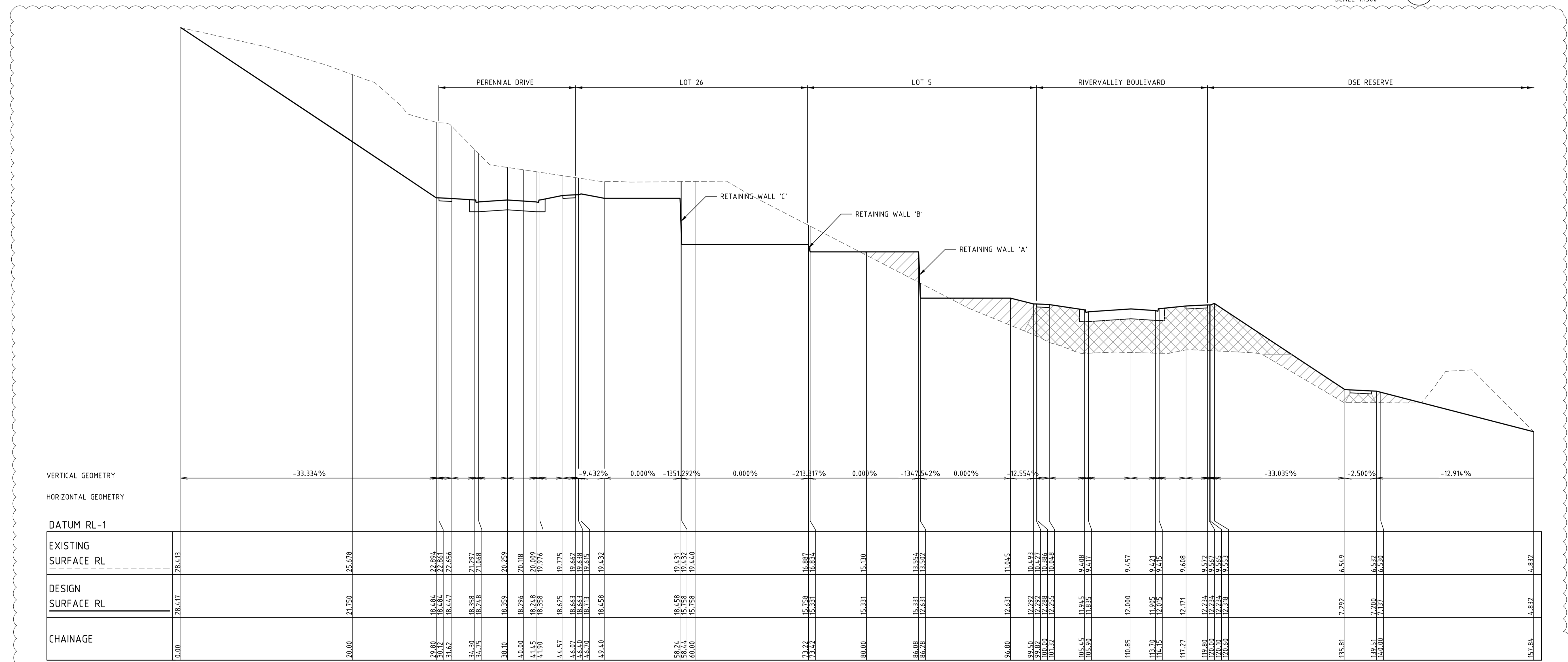
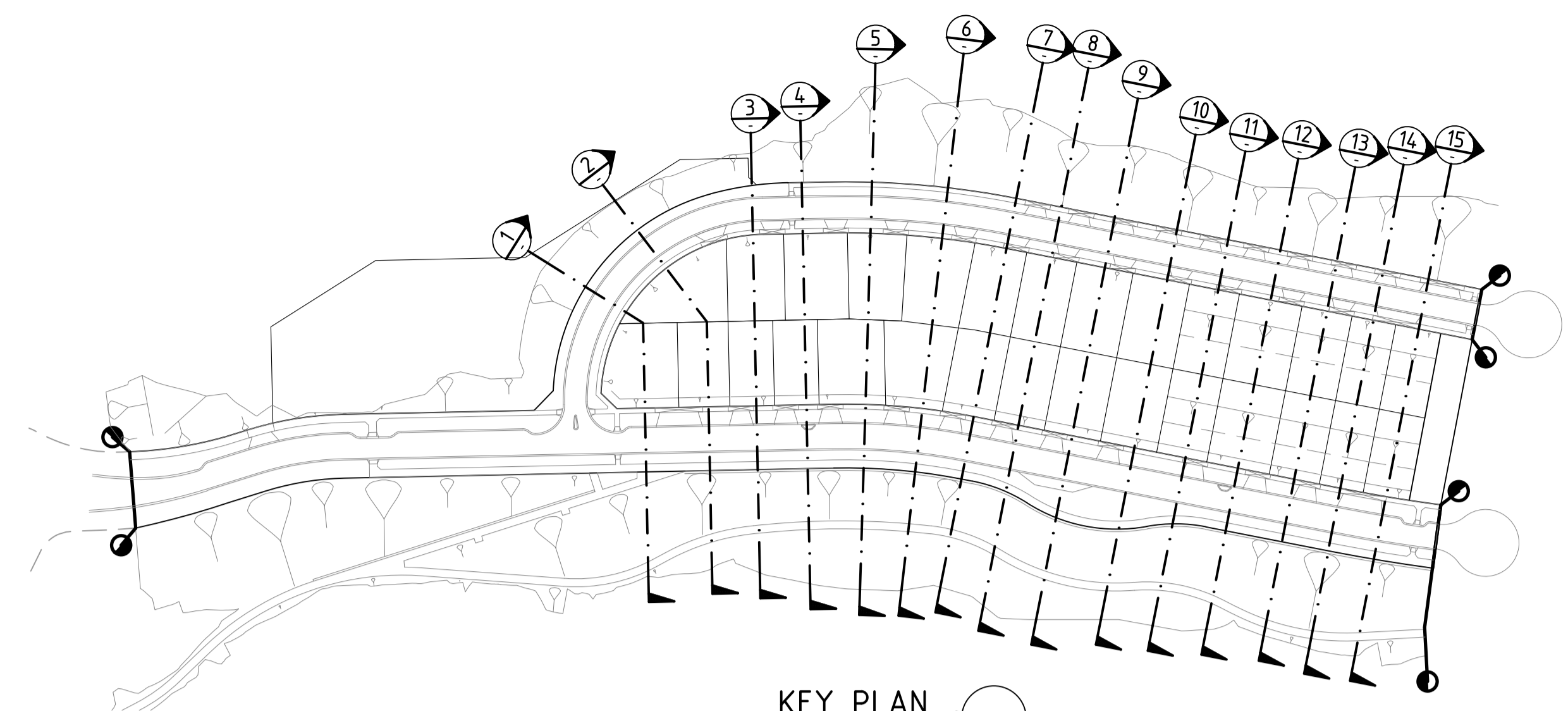
NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

RIVER VALLEY
 Coords: MGA
 Levels: AHD
 H 1:250 0m 2.5m 5m 10m 15m
 V 1:125 0m 1.25m 2.5m 5m 7.5m
 Scale @ A1/A3 1:250/1:500

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
SITE SECTIONS
SHEET 01 OF 15
Drawing No. 12050SS01 Rev 1
 Sheet No. 66 **CONSTRUCTION**

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 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



SECTION 5

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

Drawing File: C:\19_Sydney\1\2050-river valley - Stage 7A_0\locat\001
 Drawing No: 12050SS05
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631436
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943583
 Audited R.MASON
 Date 17/08/17
 AN 705036
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEO OR FLATTENED.

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL <math>< 1.5\%</math>. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

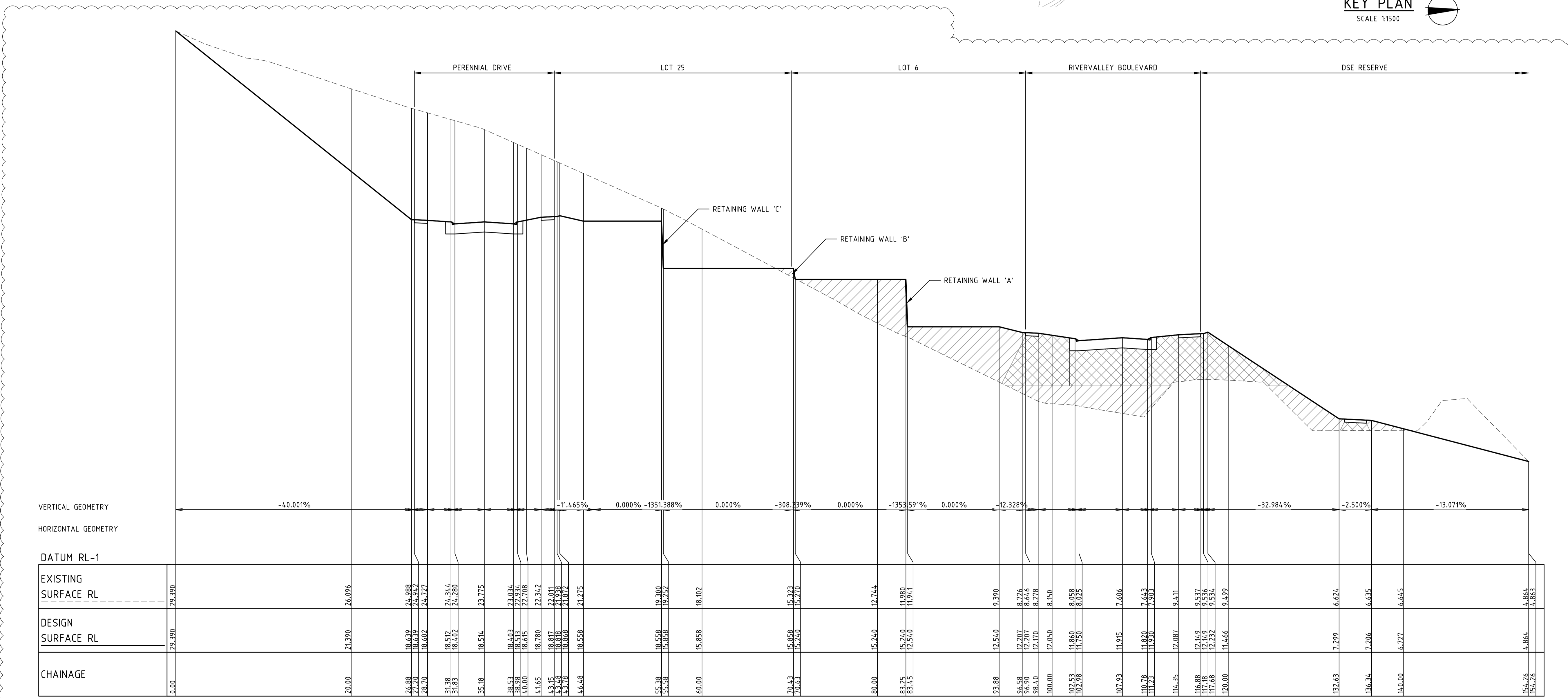
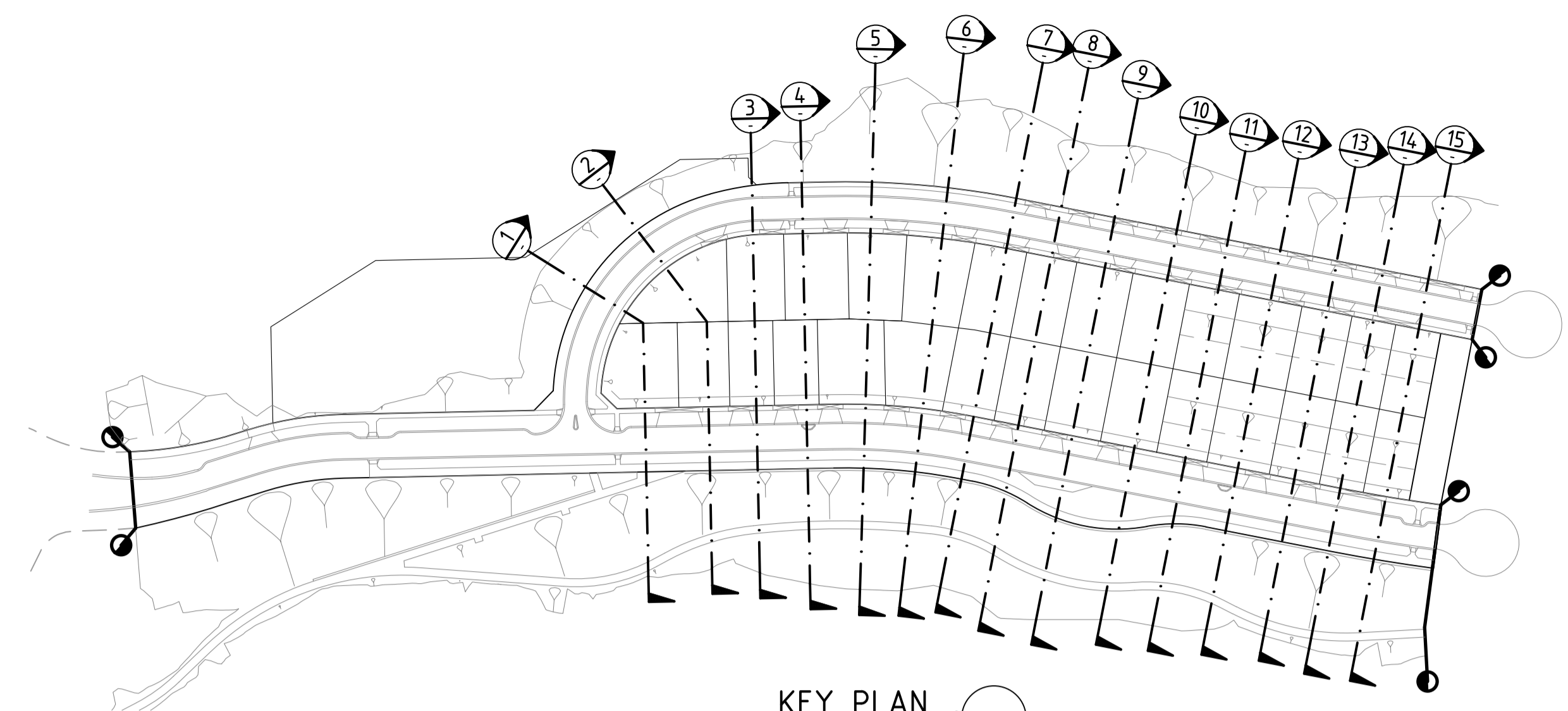
RIVER VALLEY
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 SITE SECTIONS
SHEET 05 OF 15
 Drawing No. 12050SS05 Rev 1
 Sheet No. 70 CONSTRUCTION

Coords: MGA
 Levels: AHD
 H 1:250 0m 2.5m 5m 10m 15m
 V 1:125 0m 1.25m 2.5m 5m 7.5m
 Scale @ A1/A3 1:250/1:500

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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\19_Sydney\1\2050-river valley - Stage 7A_08\loc0601.dwg
 Drawing Date: 25/09/17
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns



SECTION 6

NOTE:
 CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631437
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943594
 Audited R.MASON
 Date 17/08/17
 AN 705037
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

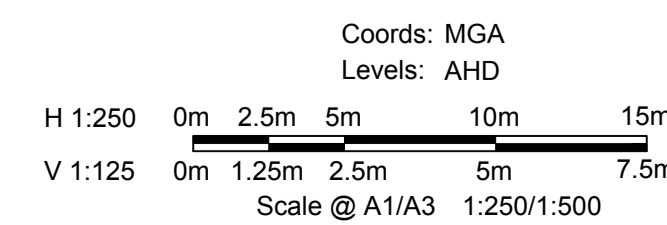
NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

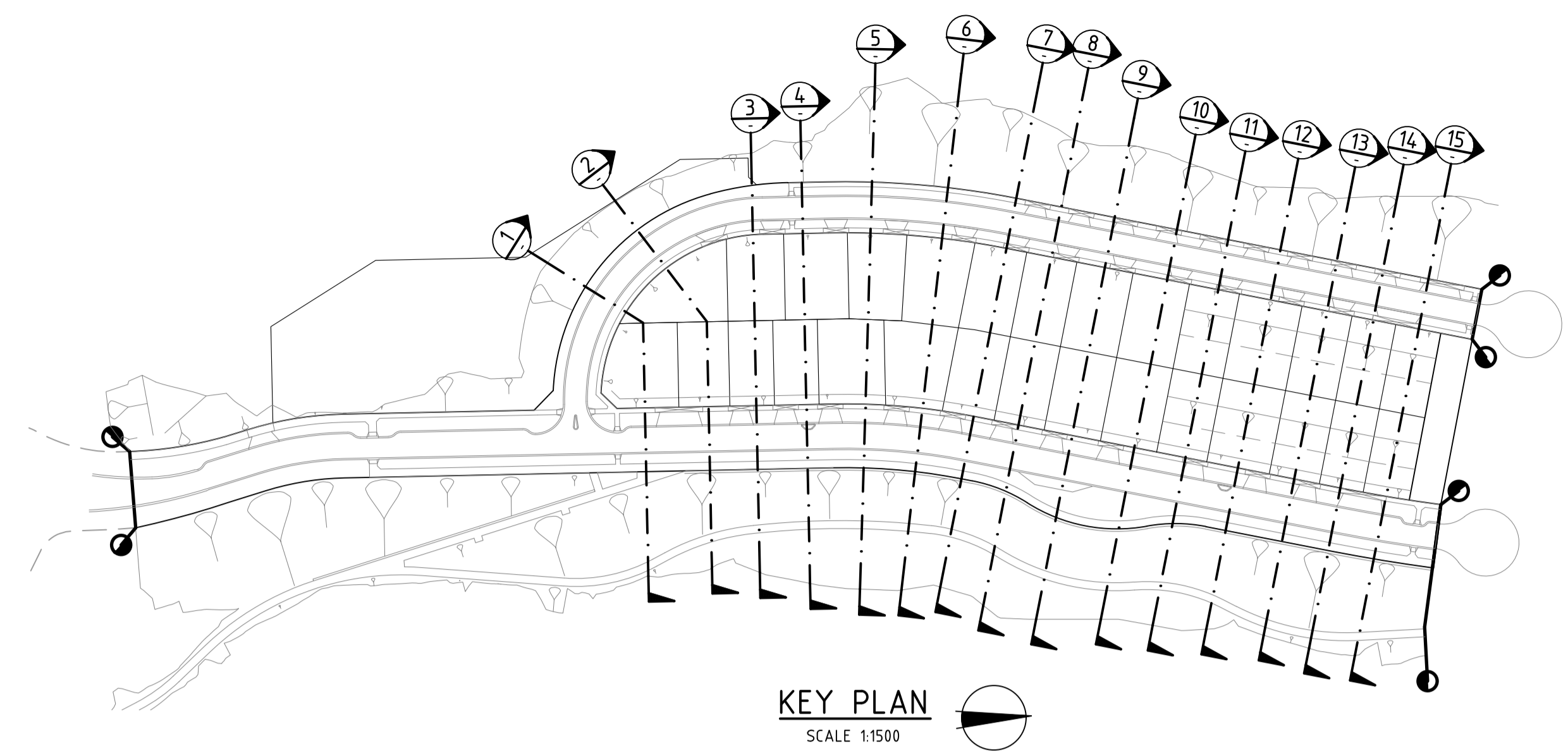


ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 SITE SECTIONS
SHEET 06 OF 15
 Drawing No. 12050SS06 Rev 1
 Sheet No. 71 CONSTRUCTION

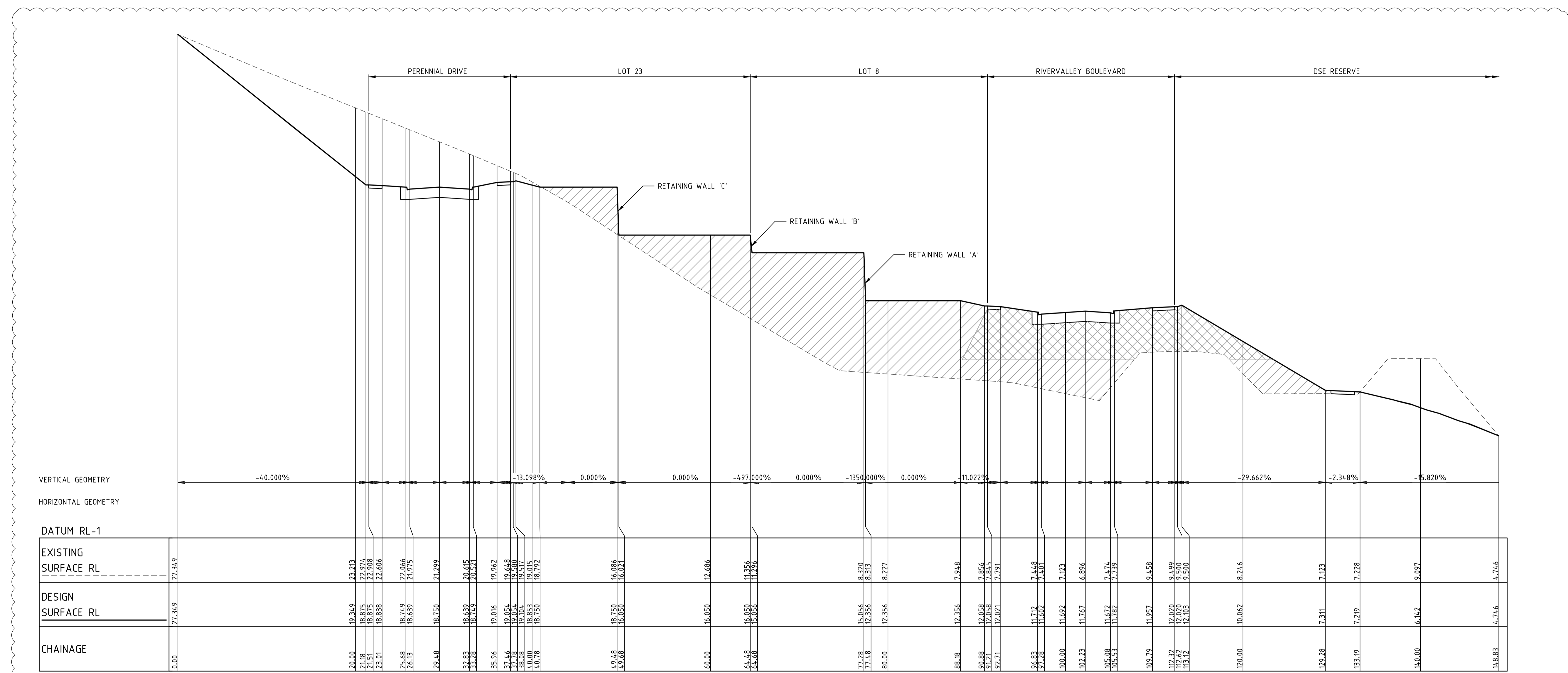


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KEY PLAN
SCALE 1:1500



SECTION 8

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

Drawing File: C:\Users\jacob.burns\OneDrive - Jacobs\Documents\Projects\2018\12050-River Valley - Stage 7A_08\08.dwg
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631439
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943586
 Audited R. MASON
 Date 17/08/17
 AN 705039
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

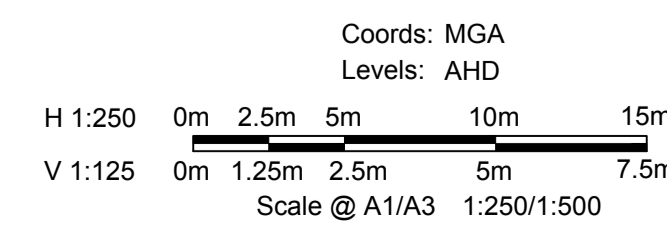
NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



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 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 SITE SECTIONS
 SHEET 08 OF 15
 Drawing No. 12050SS08 Rev 1
 Sheet No. 73 CONSTRUCTION

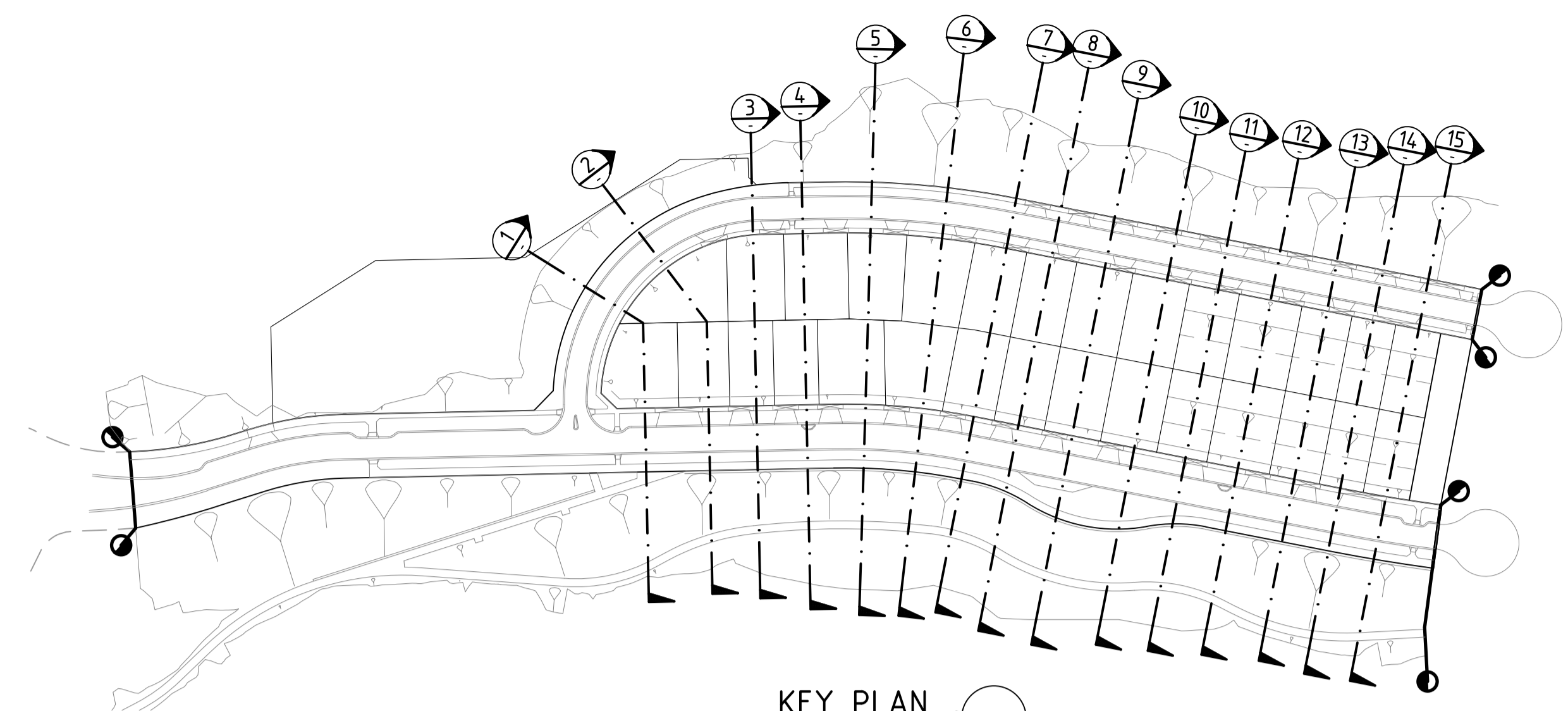


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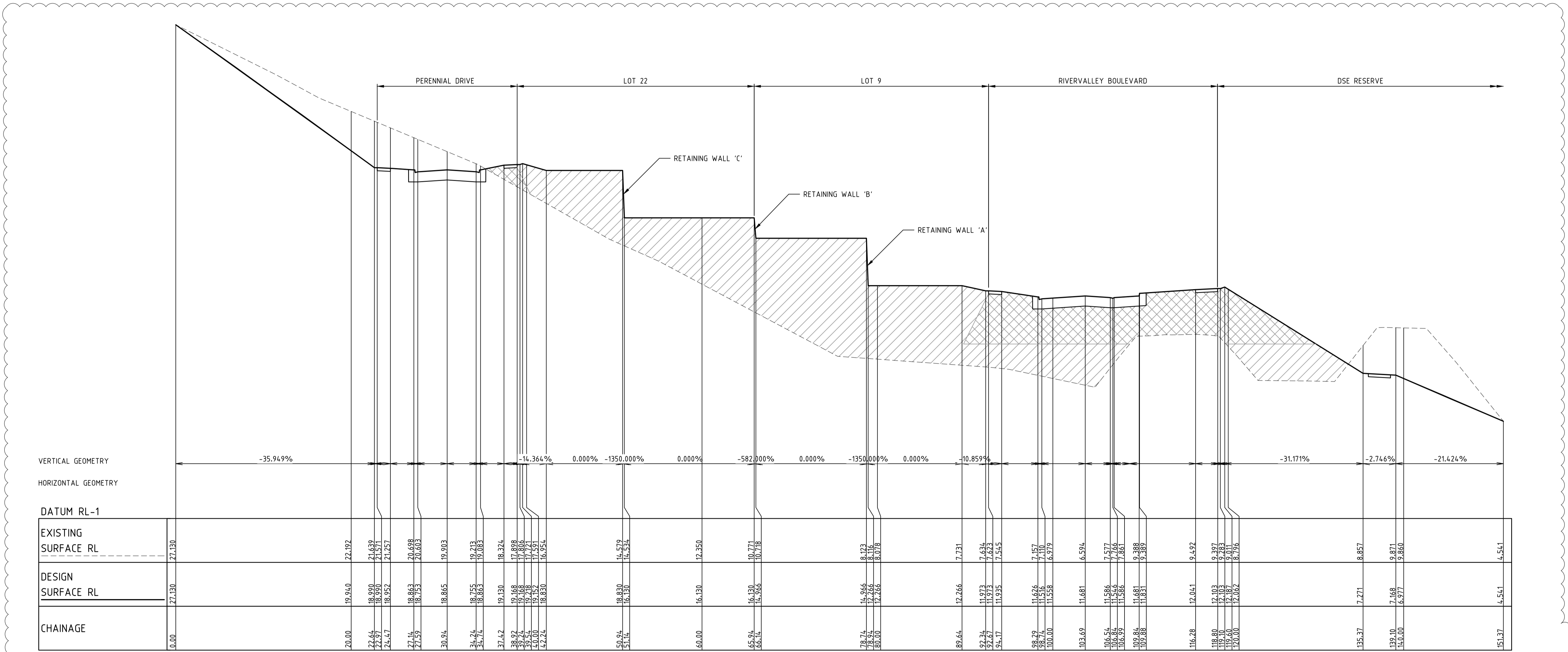
ABN 78 429 221 049

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KEY PLAN
SCALE 1:1500



SECTION 9

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

Drawing File: C:\Users\jacob.burns\OneDrive - Jacobs Group Pty Ltd\Documents\12050-SS09-River Valley - Stage 7A - 08\0001\001.dwg
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631440
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943597
 Audited R.MASON
 Date 17/08/17
 AN 705040
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081



LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

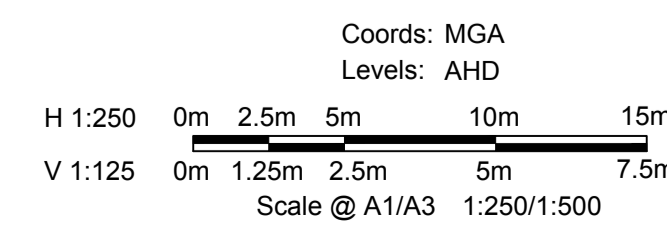
NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL +1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



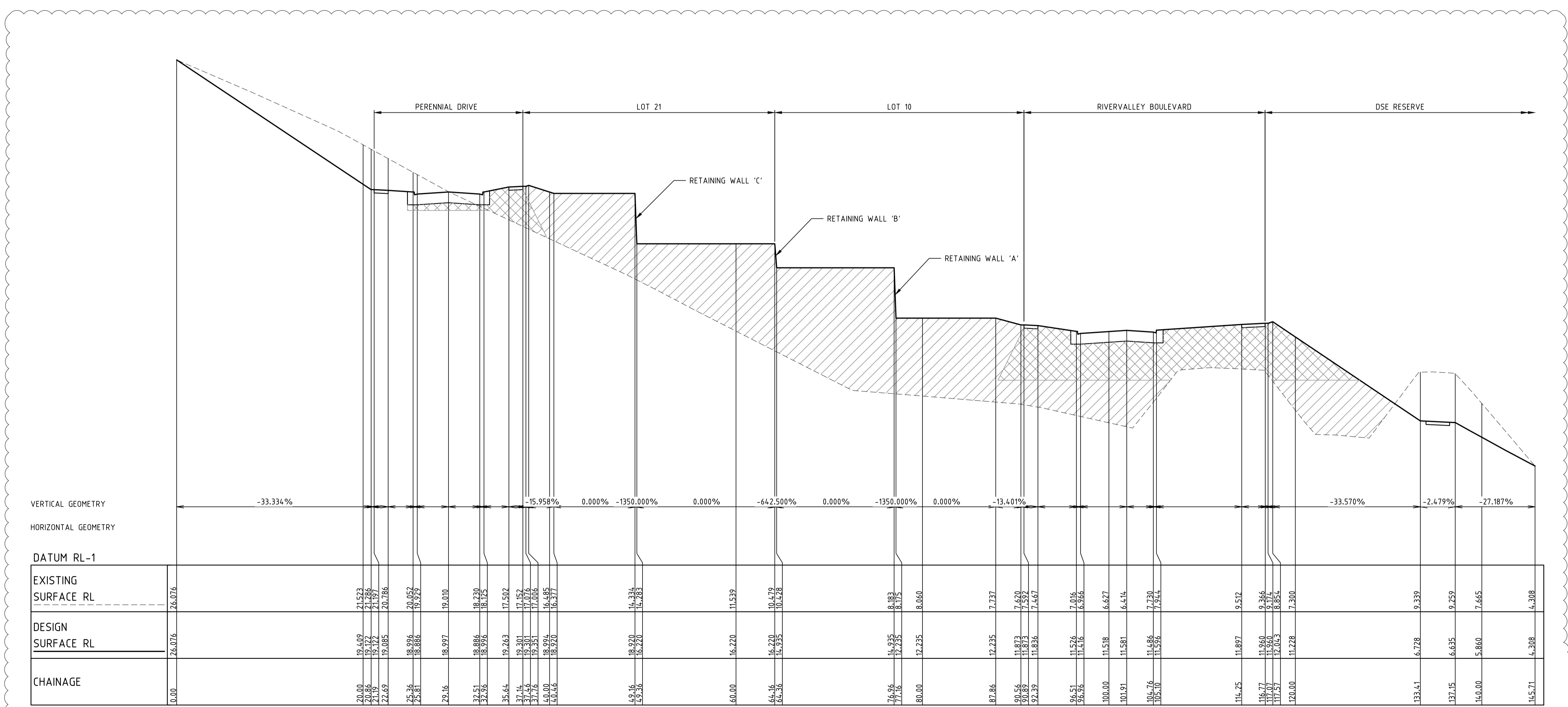
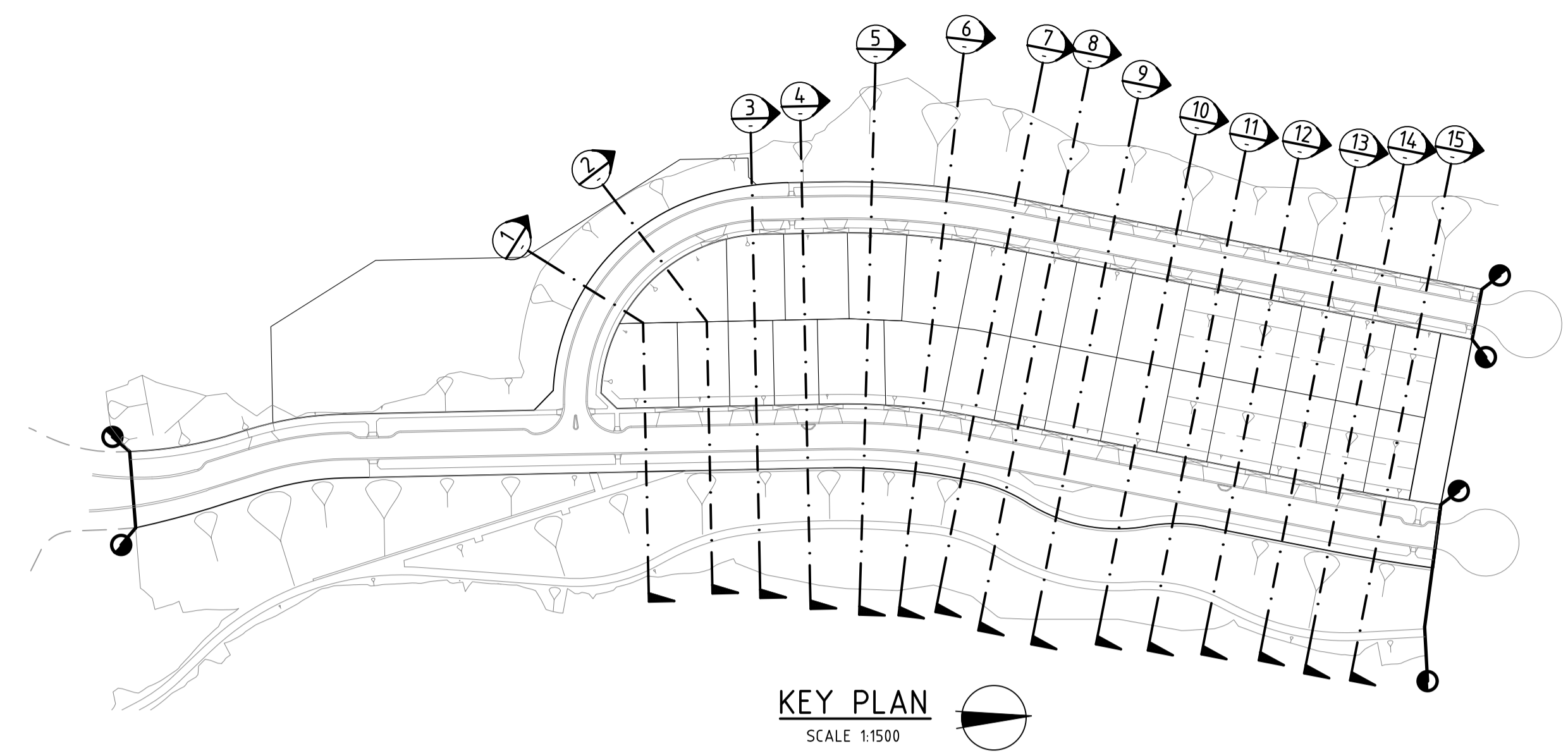
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RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
SITE SECTIONS
SHEET 09 OF 15
Drawing No. 12050SS09 Rev 1



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 T 61 7 3374 9000
 E info@dceng.com.au

Sheet No. 74
 CONSTRUCTION
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 ABN 78 429 221 049

Drawing File: C:\Users\jacob.burns\OneDrive - Jacobs\Documents\Projects\12050-River Valley - Stage 7A_8\Coord\001
 Drawing Title: RIVER VALLEY ESTATE - STAGE 7A - SUNSHINE NORTH - SITE SECTIONS
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns



NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631441
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943568
 Audited R.MASON
 Date 17/08/17
 AN 705041
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

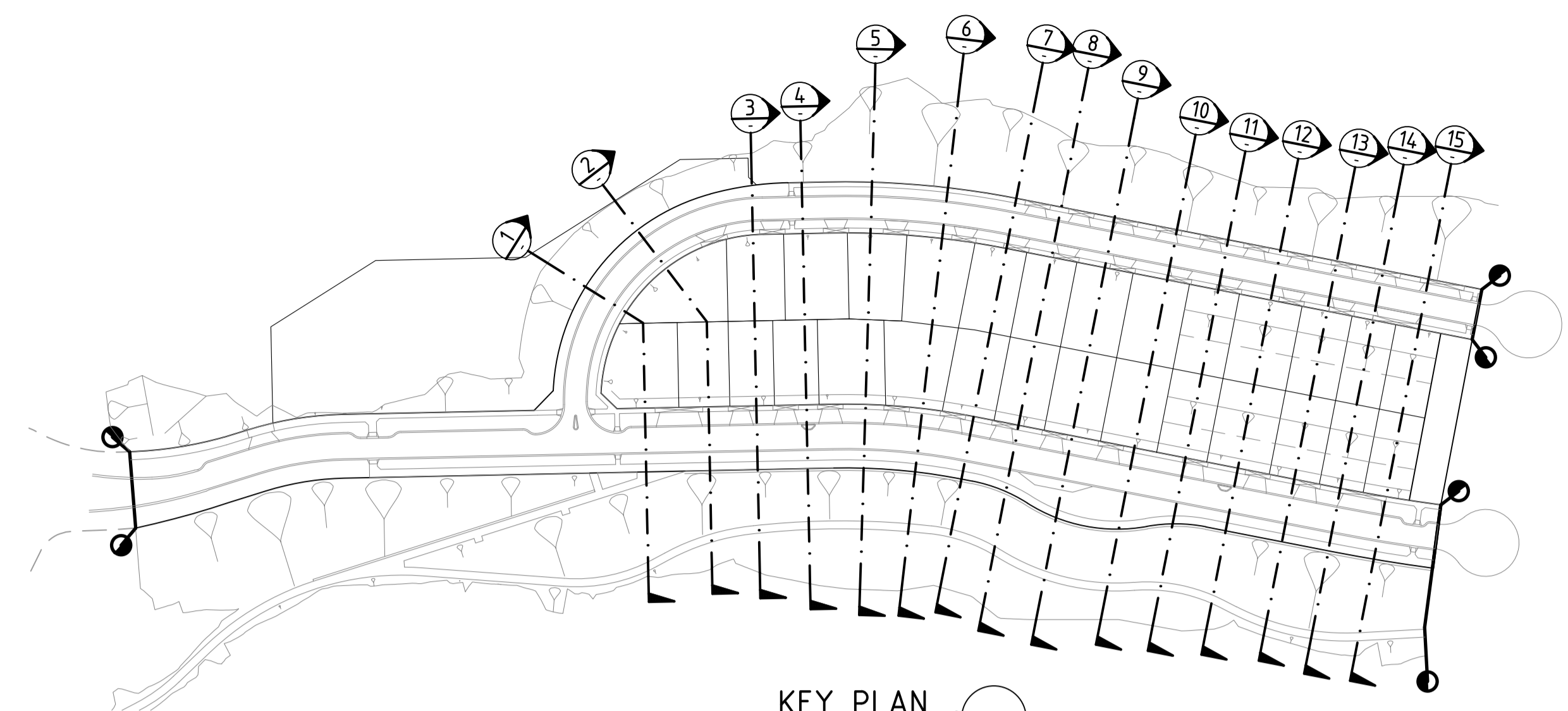
NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 SITE SECTIONS
SHEET 10 OF 15
 Drawing No. 12050SS10 Rev 1
 Sheet No. 75 CONSTRUCTION
 Coords: MGA
 Levels: AHD
 H 1:250 0m 2.5m 5m 10m 15m
 V 1:125 0m 1.25m 2.5m 5m 7.5m
 Scale @ A1/A3 1:250/1:500
 © Dalton Consulting Engineers Pty Ltd
 ABN 78 429 221 049

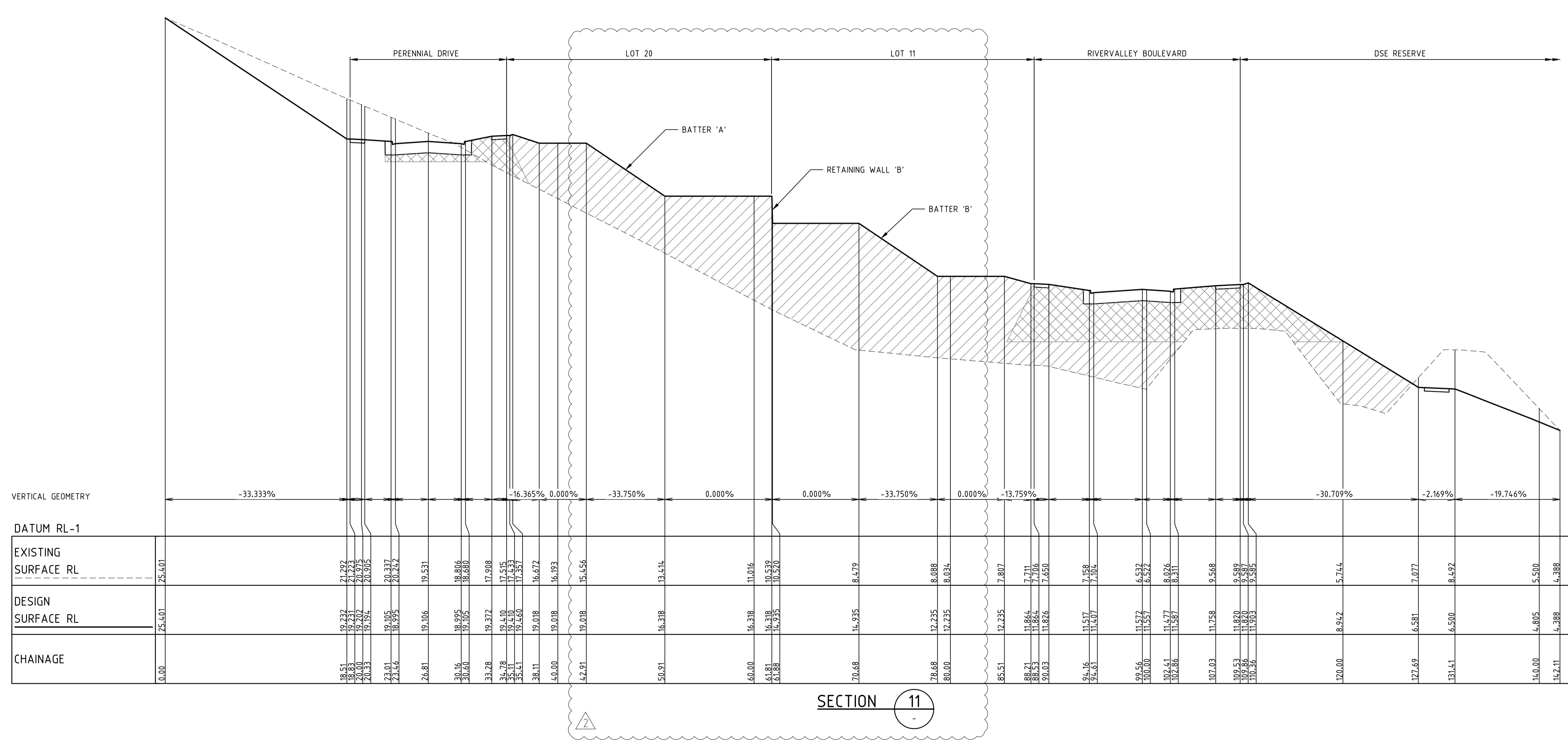
DALTON CONSULTING ENGINEERS
 ABN 78 429 221 049
 VICTORIA
 T 61 3 9813 7400
 W dceng.com.au
 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\Users\jburns\OneDrive - Jacobs\Documents\12050-River Valley - Stage 7A - 8\Work\001
 Drawing Title: EARTHWORKS DETAIL
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns



KEY PLAN
SCALE 1:1500



SECTION 11

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

REV	AMENDMENTS	DATE	APP'D.
2	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631442
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943589
 Audited R.MASON
 Date 17/08/17
 AN 705042
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

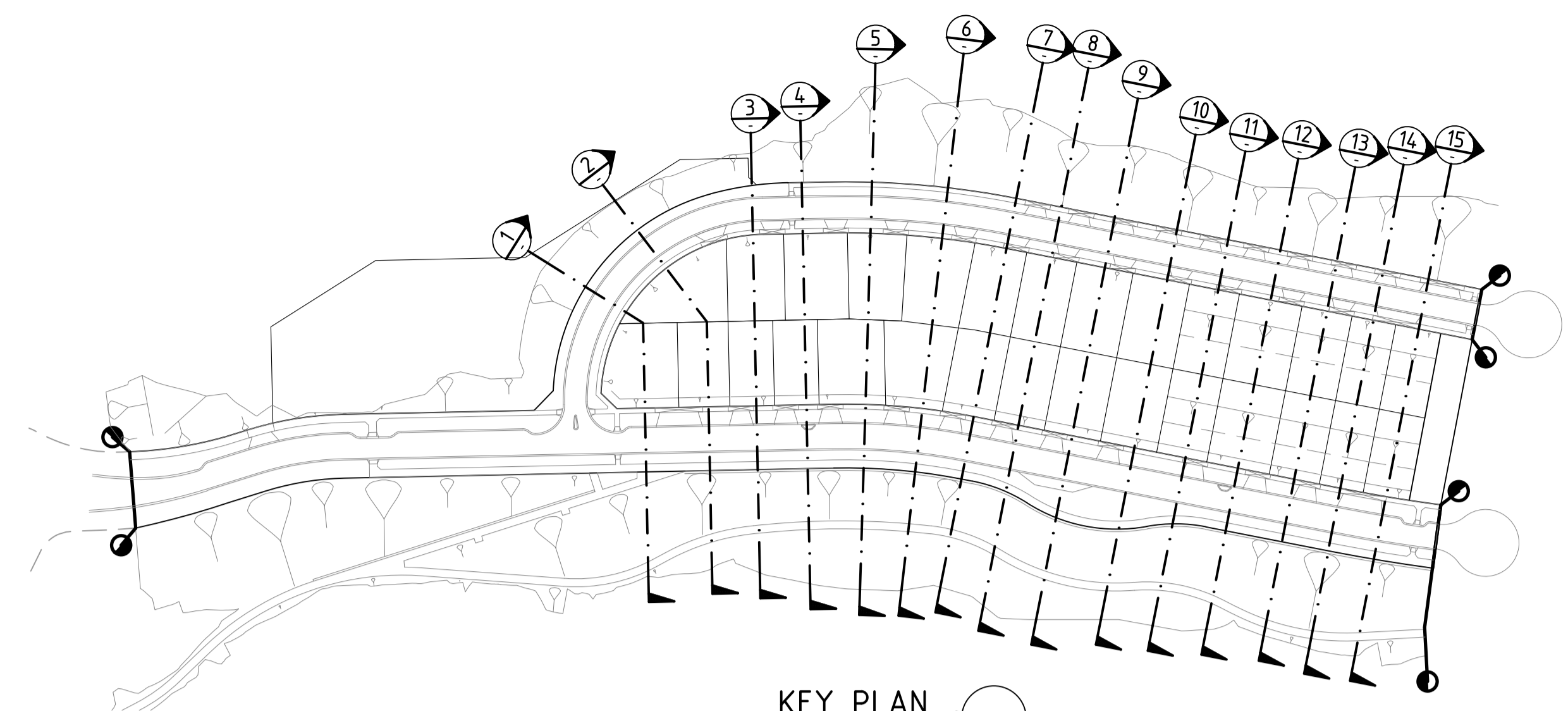
NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

RIVER VALLEY
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
SITE SECTIONS
SHEET 11 OF 15
Drawing No. 12050SS11 Rev 2
 Sheet No. 76 **CONSTRUCTION**
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 ABN 78 429 221 049

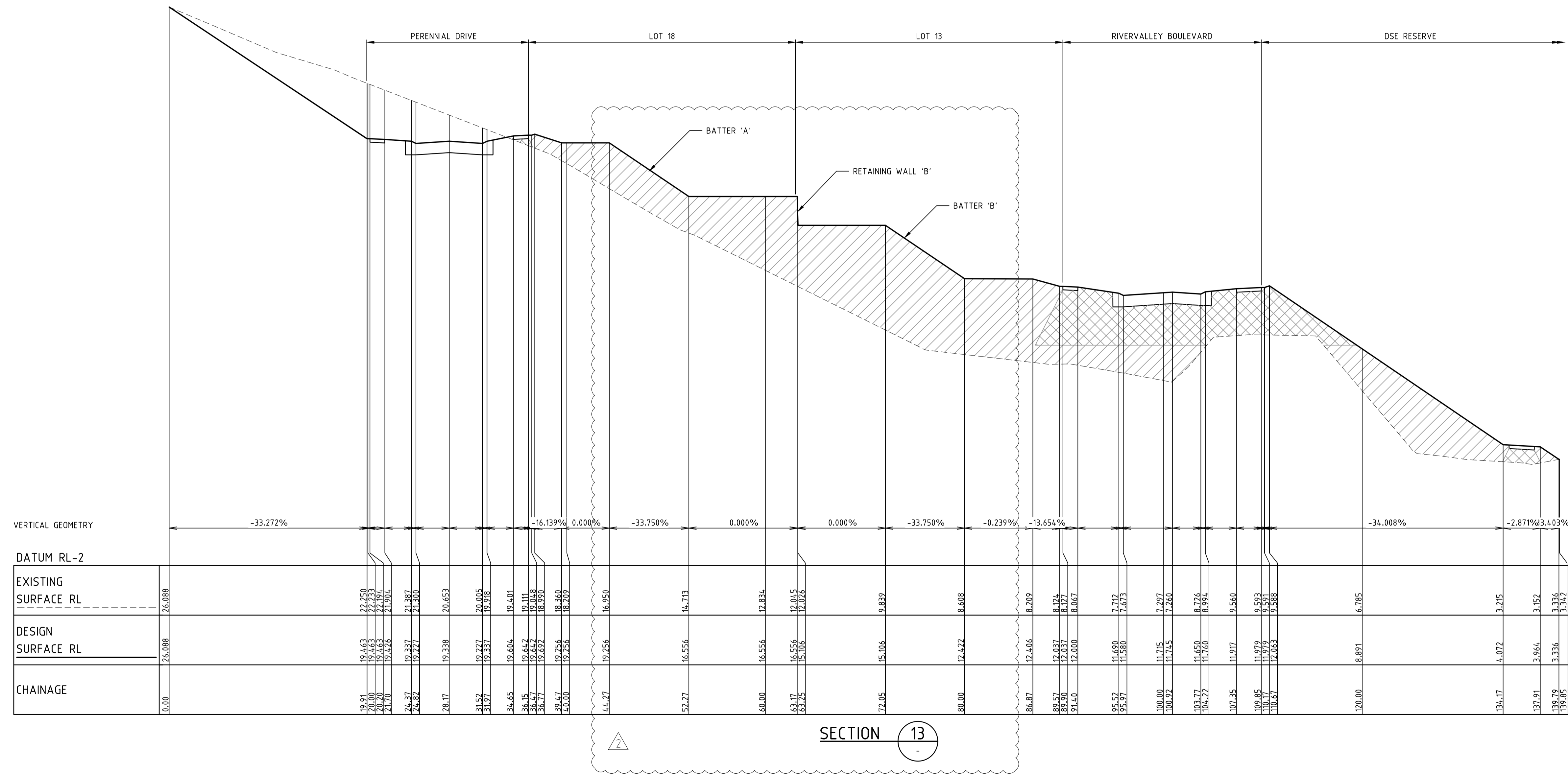
Coords: MGA
 Levels: AHD
 H 1:250 0m 2.5m 5m 10m 15m
 V 1:125 0m 1.25m 2.5m 5m 7.5m
 Scale @ A1/A3 1:250/1:500

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 VICTORIA
 T 61 3 9813 7400
 W dceng.com.au
 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



KEY PLAN
SCALE 1:1500



SECTION 13

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

Drawing File: C:\Users\jacob.burns\OneDrive - Dalton Consulting Engineers Pty Ltd\Documents\12050-SS13-River Valley - Stage 7A - 8\13041701.dwg
Drawing Title: RIVER VALLEY ESTATE - STAGE 7A - SUNSHINE NORTH - SITE SECTIONS
Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns

REV	AMENDMENTS	DATE	APP'D.
2	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
AN 1631444
Verified T.THAVENDRAN
Date 20/07/17
AN 943591
Audited R.MASON
Date 17/08/17
AN 705044
Approved T.LIAKOPOULOS
Date 04/09/17
AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

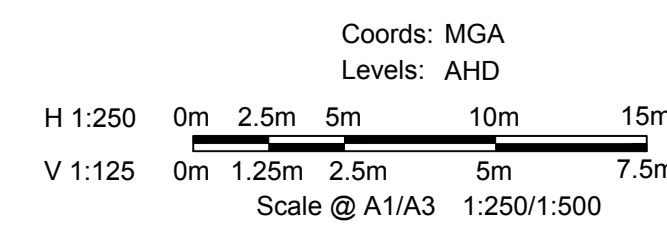
NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEED OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



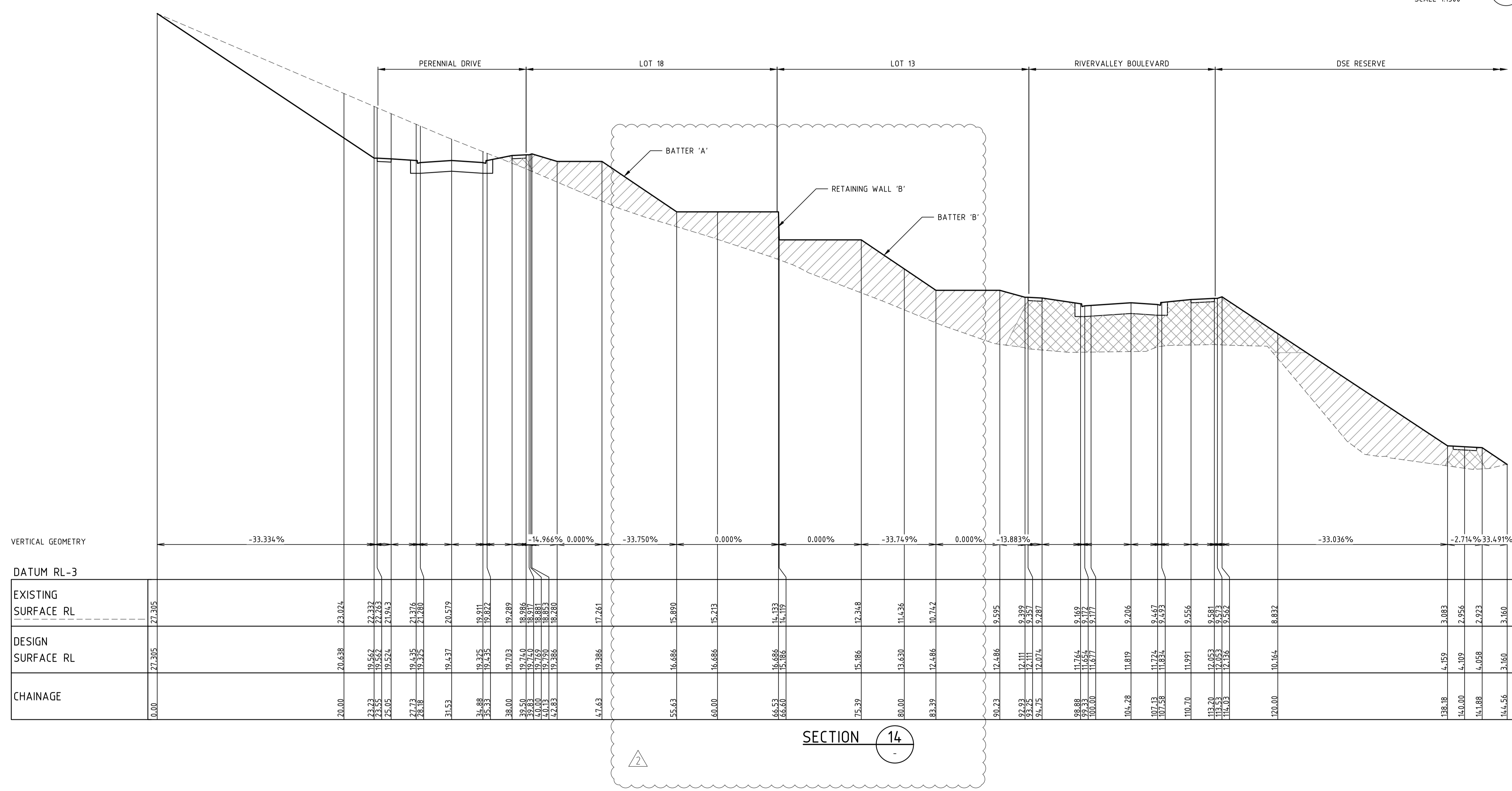
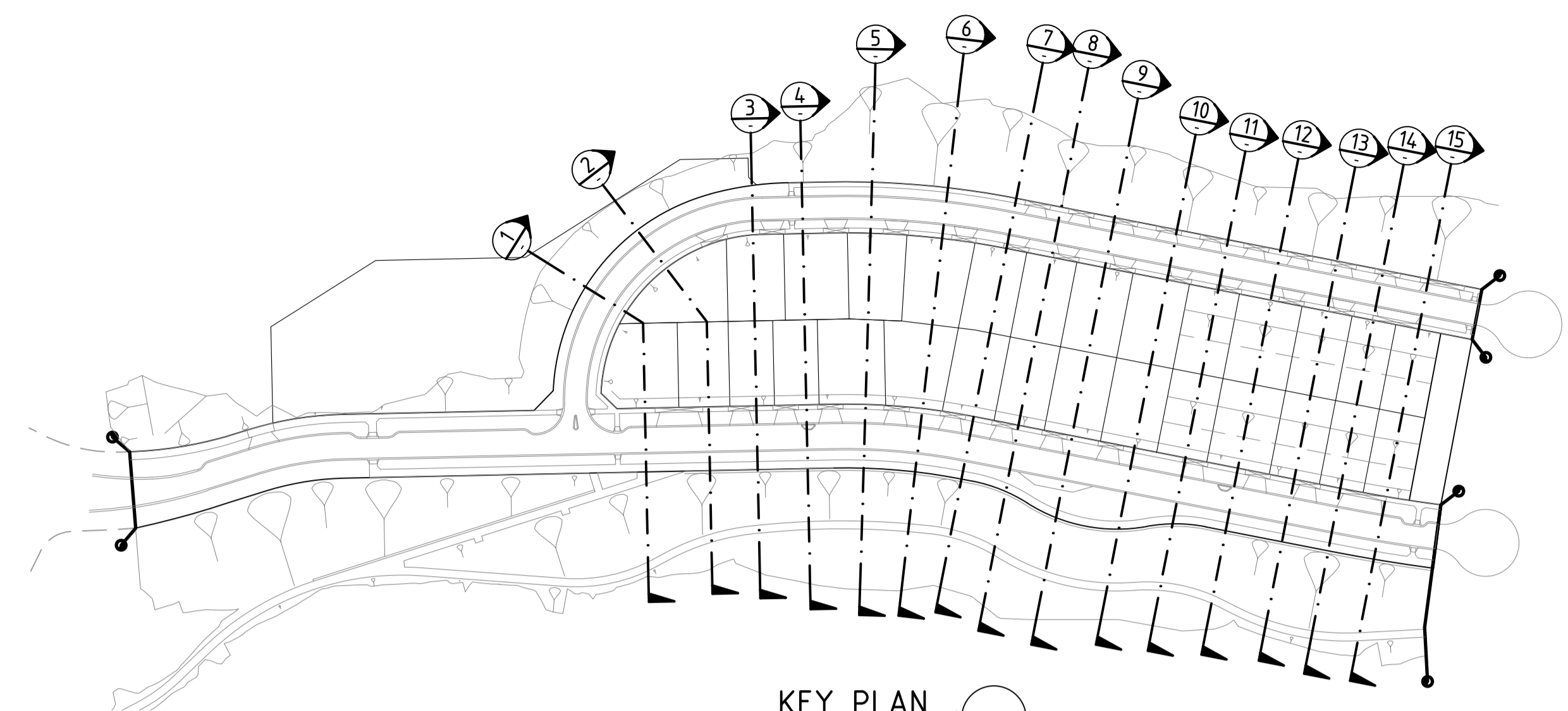
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
SITE SECTIONS
SHEET 13 OF 15
Drawing No. 12050SS13 Rev 2



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QUEENSLAND T 61 7 3374 9000 E info@dceng.com.au

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ABN 78 429 221 049

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

Drawing File: C:\19_Sydney\1\2050-River Valley - Stage 7A_8\Wood\001
 Drawing No: 12050SS14
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns

REV	AMENDMENTS	DATE	APP'D.
2	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631445
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943592
 Audited R.MASON
 Date 17/08/17
 AN 705045
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)
 TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

NOTE:
 FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEO OR FLATTENED.

NOTE:
 STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%, COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

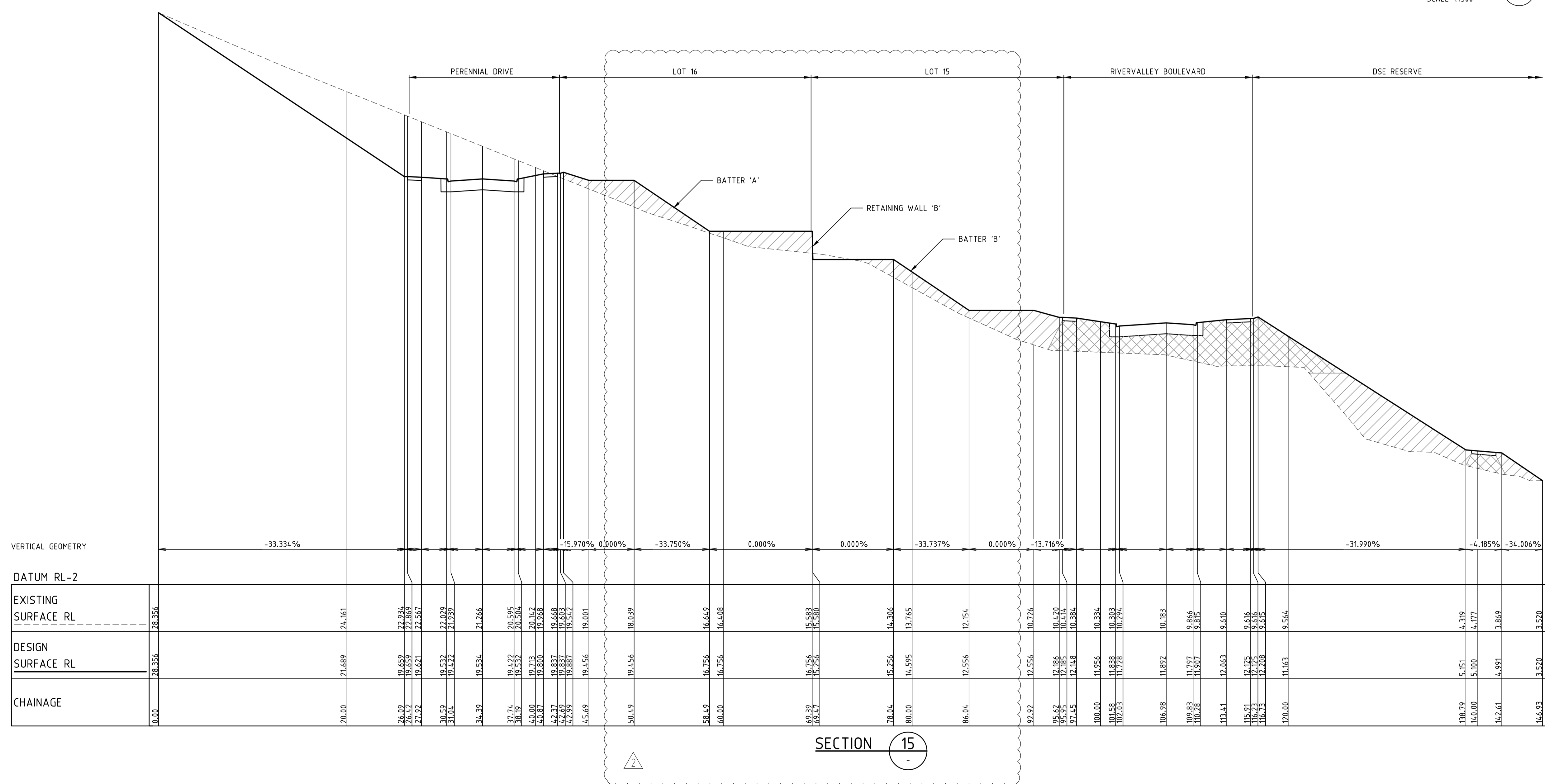
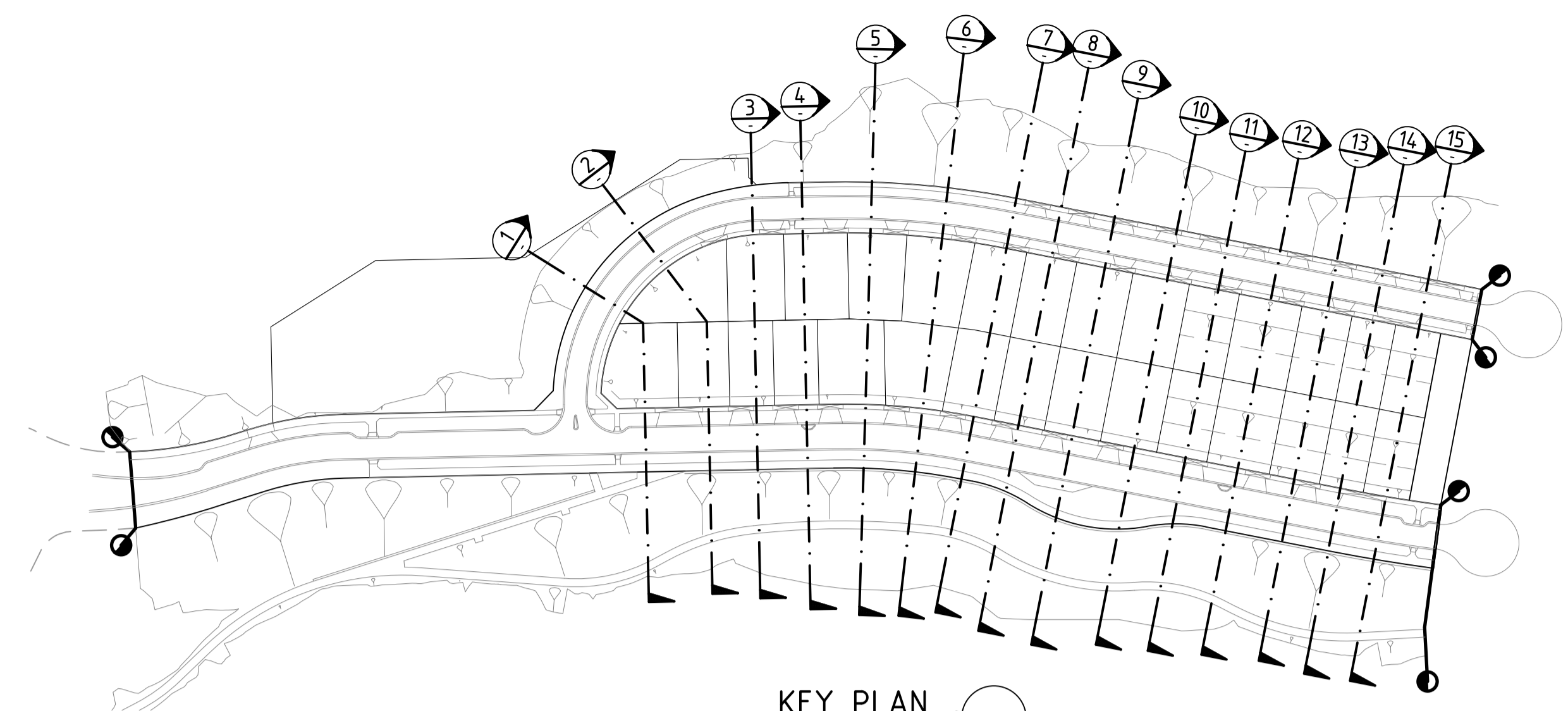
NOTE:
 REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.

RIVER VALLEY
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 SITE SECTIONS
SHEET 14 OF 15
 Drawing No. **12050SS14** Rev 2
 Sheet No. 79 **CONSTRUCTION**
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 ABN 78 429 221 049

Coords: MGA
 Levels: AHD
 H 1:250 0m 2.5m 5m 10m 15m
 V 1:125 0m 1.25m 2.5m 5m 7.5m
 Scale @ A1/A3 1:250/1:500

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 ABN 78 429 221 049
 VICTORIA T 61 3 9813 7400 W dceng.com.au
 QUEENSLAND T 61 7 3374 9000 E info@dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



VERTICAL GEOMETRY	-33.334%															-15.970%															0.000%															-33.750%															0.000%															0.000%															-33.737%															0.000%															-13.716%															-31.990%															-4.185%															-34.006%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
DATUM RL-2	28.356															24.161															22.934															22.869															21.689															19.659															19.621															22.029															21.939															19.534															21.266															20.596															20.516															19.142															19.968															19.668															19.887															19.542															19.001															18.039															16.649															16.408															15.583															15.580															14.306															13.765															12.556															12.556															10.726															10.470															10.470															10.384															10.384															10.334															10.303															10.294															10.183															10.183															9.866															9.815															9.815															9.610															9.610															9.616															9.616															9.615															9.615															9.564															9.564															3.520															3.520														
EXISTING SURFACE RL	28.356															24.161															22.934															22.869															21.689															19.659															19.621															22.029															21.939															19.534															21.266															20.596															20.516															19.142															19.968															19.668															19.887															19.542															19.001															18.039															16.649															16.408															15.583															15.580															14.306															13.765															12.556															12.556															10.726															10.470															10.470															10.384															10.384															10.334															10.303															10.294															10.183															10.183															9.866															9.815															9.815															9.610															9.610															9.616															9.616															9.615															9.615															9.564															9.564															3.520															3.520														
DESIGN SURFACE RL	28.356															24.161															22.934															22.869															21.689															19.659															19.621															22.029															21.939															19.534															21.266															20.596															20.516															19.142															19.968															19.668															19.887															19.542															19.001															18.039															16.649															16.408															15.583															15.580															14.306															13.765															12.556															12.556															10.726															10.470															10.470															10.384															10.384															10.334															10.303															10.294															10.183															10.183															9.866															9.815															9.815															9.610															9.610															9.616															9.616															9.615															9.615															9.564															9.564															3.520															3.520														
CHAINAGE	0.00															20.00															26.09															27.97															30.59															31.04															35.39															37.71															38.19															40.00															42.27															44.99															45.69															50.49															58.49															60.00															69.29															78.04															80.00															86.04															92.92															95.62															97.45															100.00															101.58															102.03															106.98															109.83															110.28															113.41															115.91															116.73															120.00															138.79															140.00															142.61															146.93																																																																																																																																																																																																																																

SECTION 15

NOTE:
CONTRACTOR TO FOLLOW EARTHWORKS SPECIFICATION PREPARED BY TONKIN AND TAYLORS FOR FILLING WORKS, REFER REPORT No.1000780.S1.v2 DATED MAY 2018

Drawing File: C:\19_Sydney\1\2050-River Valley - Stage 7A_8\locat\001.dwg
Drawing Title: RIVER VALLEY ESTATE - STAGE 7A - SUNSHINE NORTH - SITE SECTIONS
Date/Time: Fri Jul 27, 2018 - 6:14pm - jacob.burns

REV	AMENDMENTS	DATE	APP'D.
2	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
1	EARTHWORKS DETAIL REVISED	15/05/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
AN 1631446
Verified T.THAVENDRAN
Date 20/07/17
AN 943593
Audited R.MASON
Date 17/08/17
AN 705046
Approved T.LIAKOPOULOS
Date 04/09/17
AN 888081

LEGEND

DENOTES STRUCTURAL FILL (TYPE 2)

TYPE 1 FILL COMPACTED TO 98% SDD UNDER LEVEL 1

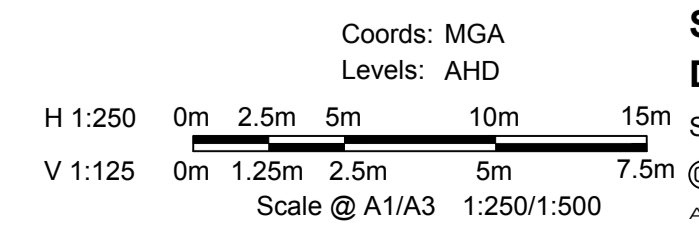
NOTE:
STRUCTURAL FILL (TYPE 2) MATERIAL SHALL BE AN APPROVED MATERIAL SPREAD IN SUCCESSIVE LAYERS NOT EXCEEDING 150mm (LOOSE MEASUREMENT) AND COMPACTED TO A DRY DENSITY OF NOT LESS THAN 98% S.D.D AND SWELL -1.5%. COMPACTED TO LEVEL 1 SUPERVISION. REFER TO SHEET 01, NOTES 20-23

NOTE:
FILL ON EXISTING SLOPE SHALL BE BENCHED FOR EACH LAYER AND NEAR VERTICAL BASALT FACES SHALL BE LOOSENEO OR FLATTENED.

NOTE:
REFER TO LANDSCAPE PLANS FOR DETAILS OF BATTER TREATMENT.



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
SITE SECTIONS
SHEET 15 OF 15
Drawing No. 12050SS15 Rev 2



Sheet No. 80 CONSTRUCTION
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ABN 78 429 221 049



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T 61 7 3374 9000
E info@dceng.com.au

VICTORIA
T 61 3 9813 7400
W dceng.com.au

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

ALIGNMENT RA

POINT NO	EASTING	NORTHING	RL
RA1	310363.604	5818752.574	15.625
RA2	310363.272	5818768.496	15.625
RA3	310362.981	5818782.492	15.489
RA4	310362.690	5818796.489	15.410
RA5	310362.894	5818817.390	15.331
RA6	310365.002	5818838.093	15.240
RA7	310367.951	5818854.350	15.136
RA8	310371.021	5818870.053	15.056
RA9	310374.474	5818887.719	14.966
RA10	310377.913	5818905.311	14.935

ALIGNMENT RB

POINT NO	EASTING	NORTHING	RL
RB1	310349.752	5818806.210	15.758
RB2	310350.188	5818817.125	15.758
RB3	310350.411	5818822.693	15.858
RB4	310352.582	5818840.521	15.968
RB5	310353.204	5818845.630	15.968
RB6	310355.389	5818856.806	16.050
RB7	310358.458	5818872.509	16.130
RB8	310361.912	5818890.175	16.220
RB9	310365.365	5818907.840	16.318
RB10	310368.435	5818923.543	16.400
RB11	310372.272	5818943.171	16.556
RB12	310375.341	5818958.874	16.686
RB13	310378.027	5818972.614	16.756
RB14	310380.788	5818986.683	16.756

ALIGNMENT RC

POINT NO	EASTING	NORTHING	RL
RC1	310335.413	5818767.979	18.325
RC2	310335.104	5818785.897	18.358
RC3	310334.759	5818805.892	18.458
RC4	310335.438	5818823.613	18.558
RC5	310337.693	5818843.422	18.643
RC6	310340.667	5818859.684	18.750
RC7	310343.737	5818875.387	18.830
RC8	310347.190	5818893.052	18.920
RC9	310350.629	5818910.644	19.018

ALIGNMENT RD

POINT NO	EASTING	NORTHING	RL
RD1	310374.503	5818752.726	13.225
RD2	310350.875	5818752.234	17.025
RD3	310350.542	5818768.219	17.225
RD4	310335.415	5818767.904	18.025

ALIGNMENT RE

POINT NO	EASTING	NORTHING	RL
RE1	310406.645	5818981.988	12.723
RE2	310380.816	5818986.880	17.256
RE3	310354.287	5818991.904	19.956

ALIGNMENT RF

POINT NO	EASTING	NORTHING	RL
RF1	310408.061	5818991.898	12.774
RF2	310382.359	5818996.765	17.381
RF3	310356.206	5819001.718	20.081

ALIGNMENT RG

POINT NO	EASTING	NORTHING	RL
RG1	310374.075	5818906.137	14.935
RG2	310381.927	5818904.603	13.135

ALIGNMENT RH

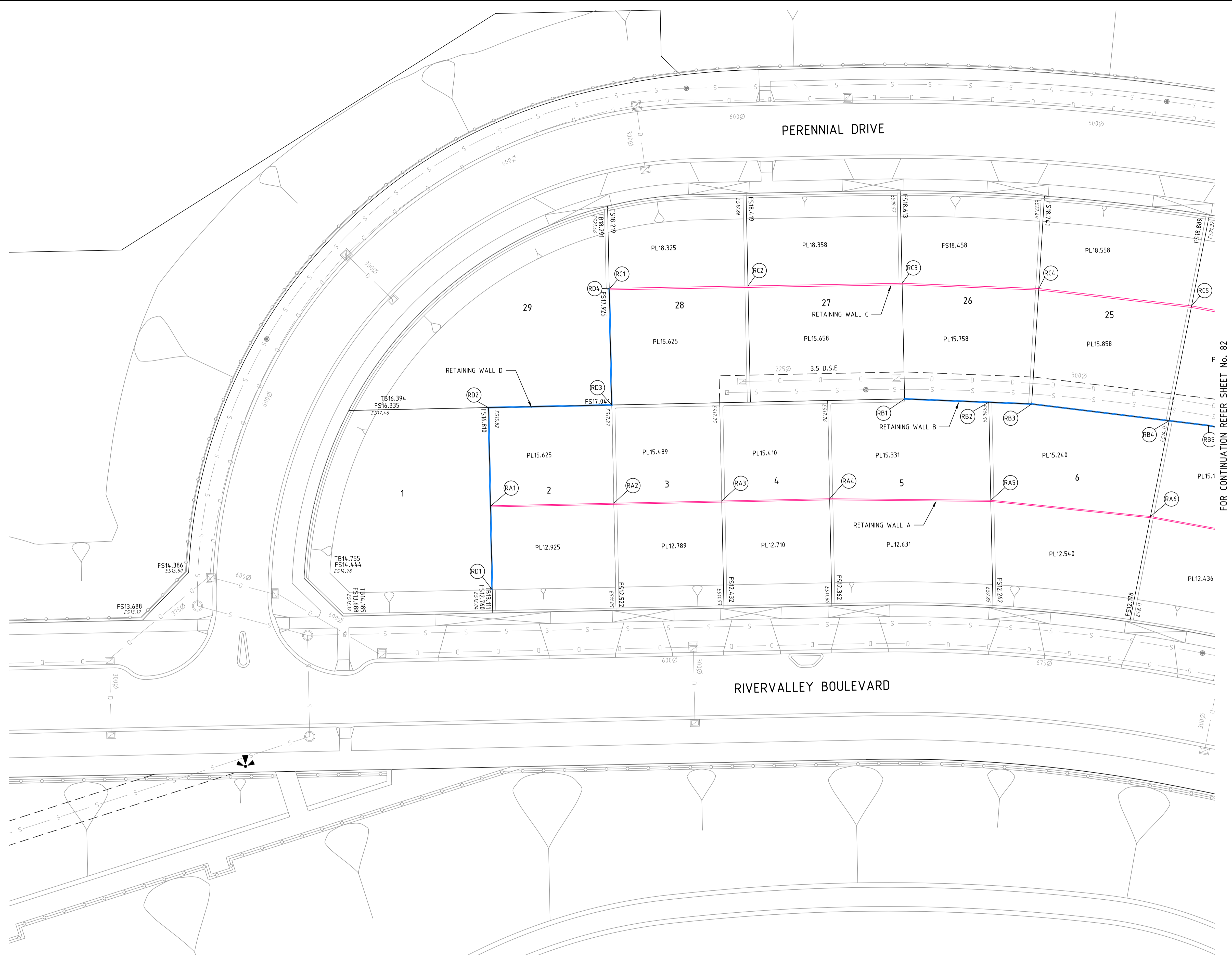
POINT NO	EASTING	NORTHING	RL
RH1	310346.816	5818911.466	18.920
RH2	310354.668	5818909.931	17.120

ALIGNMENT BA

POINT NO	EASTING	NORTHING	RL
BA1	310346.831	5818911.540	19.018
BA2	310349.886	5818927.169	19.100
BA3	310353.723	5818946.797	19.256
BA4	310356.792	5818962.500	19.386
BA5	310359.478	5818976.240	19.456
BA6	310362.207	5818990.200	19.456

ALIGNMENT BB

POINT NO	EASTING	NORTHING	RL
BB1	310374.090	5818906.211	14.935
BB2	310377.145	5818921.840	15.016
BB3	310380.982	5818941.469	15.106
BB4	310384.051	5818957.172	15.186
BB5	310386.737	5818970.911	15.256
BB6	310389.090	5818985.109	15.256



FOR CONTINUATION REFER SHEET No. 82



REV	AMENDMENTS	DATE	APPD.
1	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
AN 1631447
Verified T.THAVENDRAN
Date 20/07/17
AN 943594
Audited R.MASON
Date 17/08/17
AN 705047
Approved T.LIAKOPOULOS
Date 04/09/17
AN 888081

- LEGEND**
- CONCRETE SLEEPER WALL
 - CONCRETE SLEEPER WALL - KENSINGTON PATTERN
 - REINFORCED CONCRETE WALL

NOTE:
DRAWING TO BE READ IN CONJUNCTION WITH
STRUCTURAL DESIGN DRAWING SET BY OTHERS

RIVER VALLEY

Coords: MGA
Levels: AHD

Hor 1:250 0m 2.5m 5m 10m 15m

Scale @ A1/A3 1:250/1:500

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
RETAINING WALL PLAN
SHEET 01 OF 02
Drawing No. 12050RWP01 Rev 1
Sheet No. 81 CONSTRUCTION

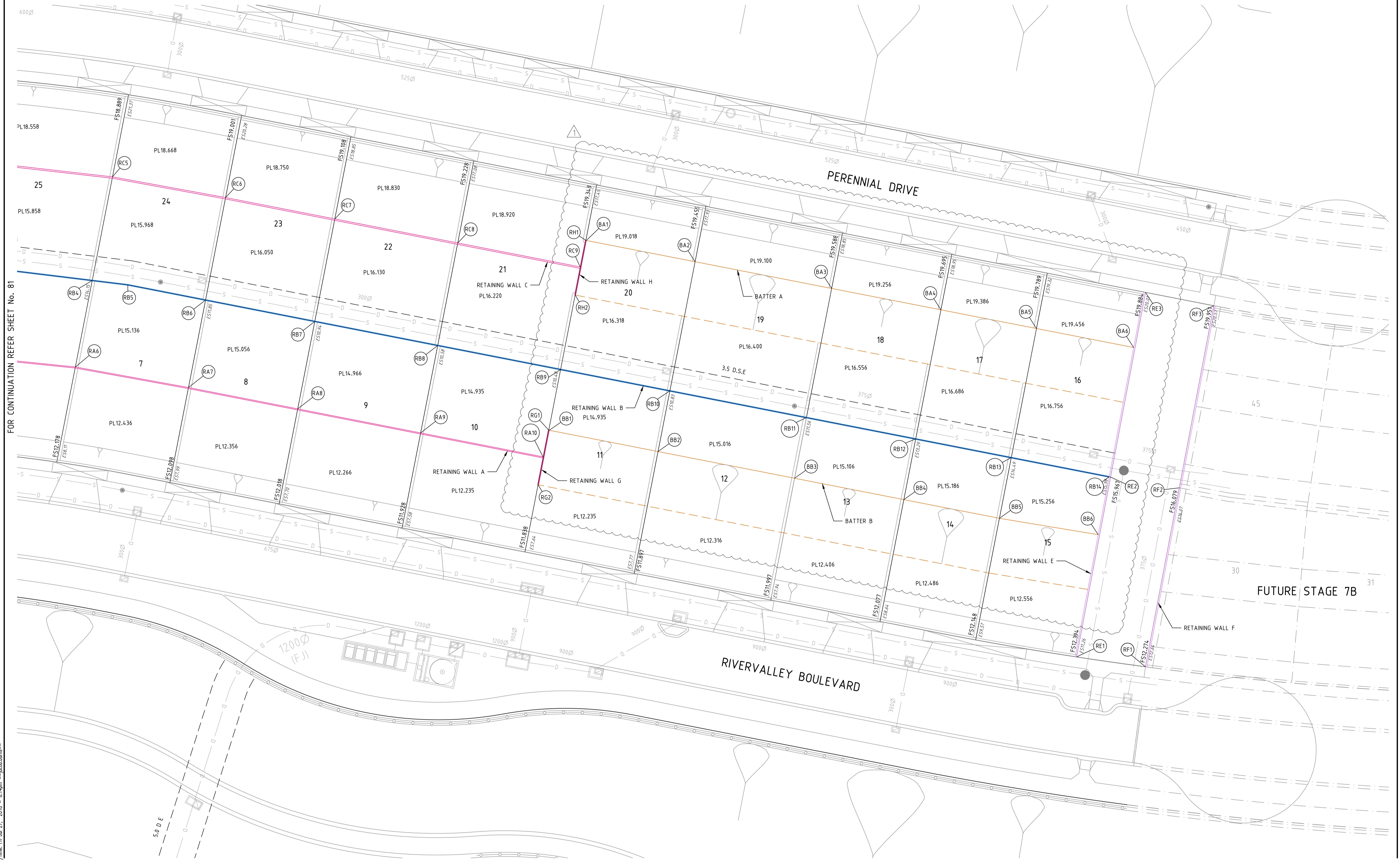
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Drawing File: C:\24_Sunshine\12050-River Valley - Stage 7A\8\Wood\DWG
Drawing Name: Retaining Wall Plan
Date/Time: Fri Jul 27, 2018 - 6:14pm --jacobs.burns--



FOR CONTINUATION REFER SHEET No. 81

Drawing File: C:\124_Sydney\1\2050-river valley - Stage 7A\8\locat\001.dwg
 Drawing No: 12050RWP02
 Date/Time: Fri Jul 27, 2018 - 6:14pm - jacobsburns-

REV	AMENDMENTS	DATE	APPD.
1	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631448
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943595
 Audited R. MASON
 Date 17/08/17
 AN 705048
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

- LEGEND**
- CONCRETE SLEEPER WALL
 - CONCRETE SLEEPER WALL - KENSINGTON PATTERN
 - REINFORCED CONCRETE WALL

NOTE:
 DRAWING TO BE READ IN CONJUNCTION WITH
 STRUCTURAL DESIGN DRAWING SET BY OTHERS

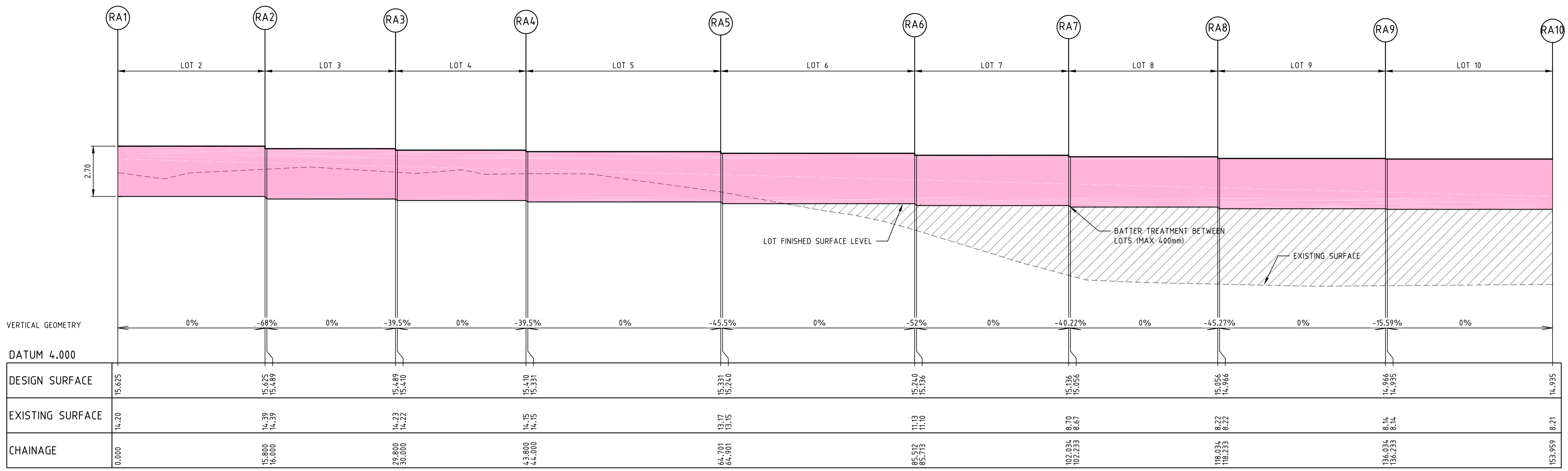
RIVER VALLEY

Coords: MGA
 Levels: AHD
 Hor 1:250 0m 2.5m 5m 10m 15m
 Scale @ A1/A3 1:250/1:500

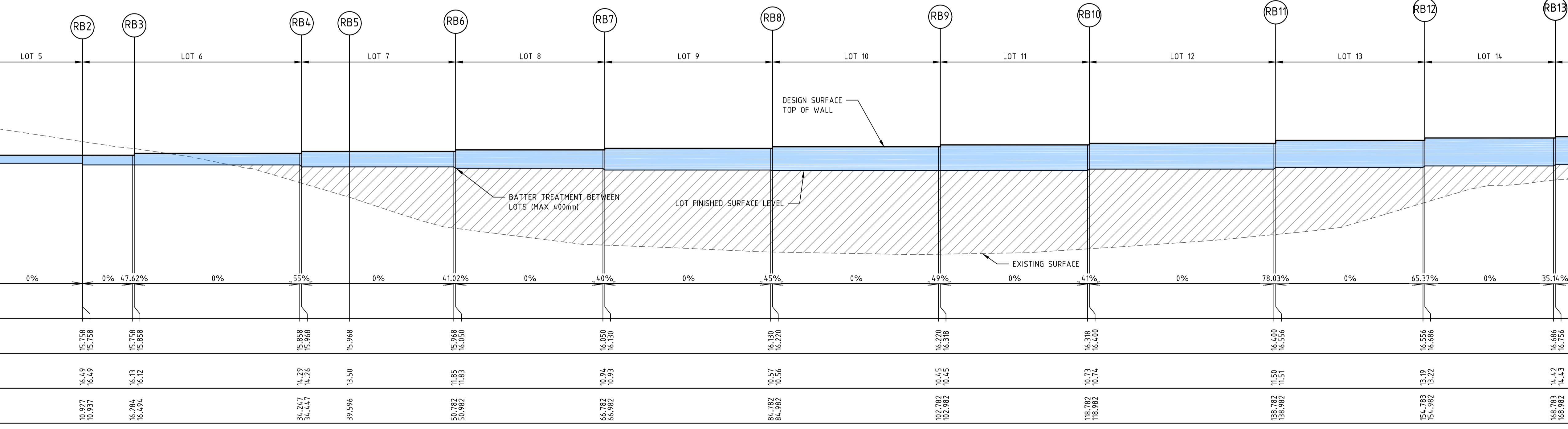
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 RETAINING WALL PLAN
 SHEET 02 OF 02
 Drawing No. 12050RWP02 Rev 1
 Sheet No. 82 **CONSTRUCTION**
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Drawing File: C:\24_Sydney\1\2050-River Valley - Stage 7A\8\Word\RD1
 Drawing No: 12050RWS01
 Date/Time: Fri, Jul 27, 2018 - 6:14pm - jacob.burns



LONGITUDINAL SECTION - RETAINING WALL 'A'
 2.7m HIGH CONCRETE SLEEPER
 LOTS 2 TO 10



LONGITUDINAL SECTION - RETAINING WALL 'B'
 1.5m MAXIMUM HEIGHT CONCRETE SLEEPER (KENSINGTON PATTERN)
 AT REAR OF LOTS 5 TO 15

NOTE:
 DRAWING TO BE READ IN CONJUNCTION WITH
 STRUCTURAL DESIGN DRAWING SET BY OTHERS

REV	AMENDMENTS	DATE	APPD.
1	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631449
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943596
 Audited R. MASON
 Date 17/08/17
 AN 705049
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

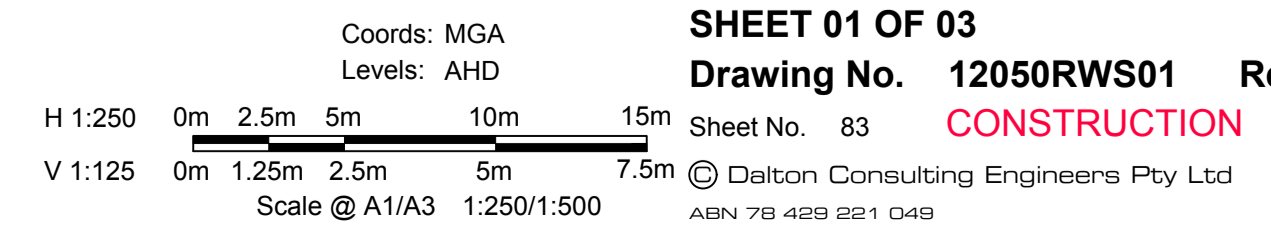
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



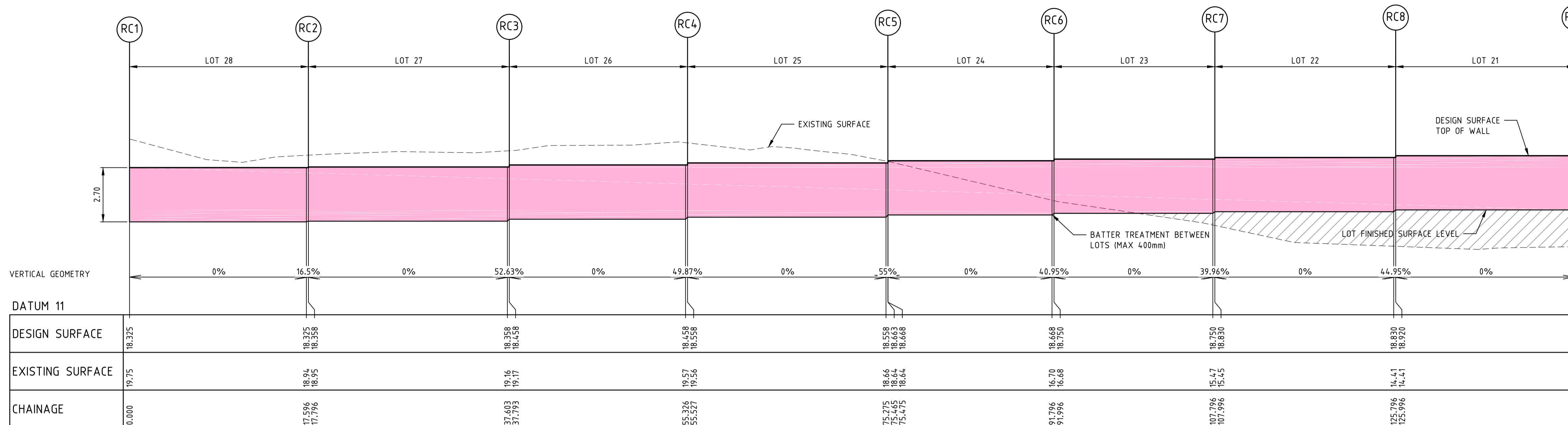
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 RETAINING WALL SECTIONS
 SHEET 01 OF 03
 Drawing No. 12050RWS01 Rev 1



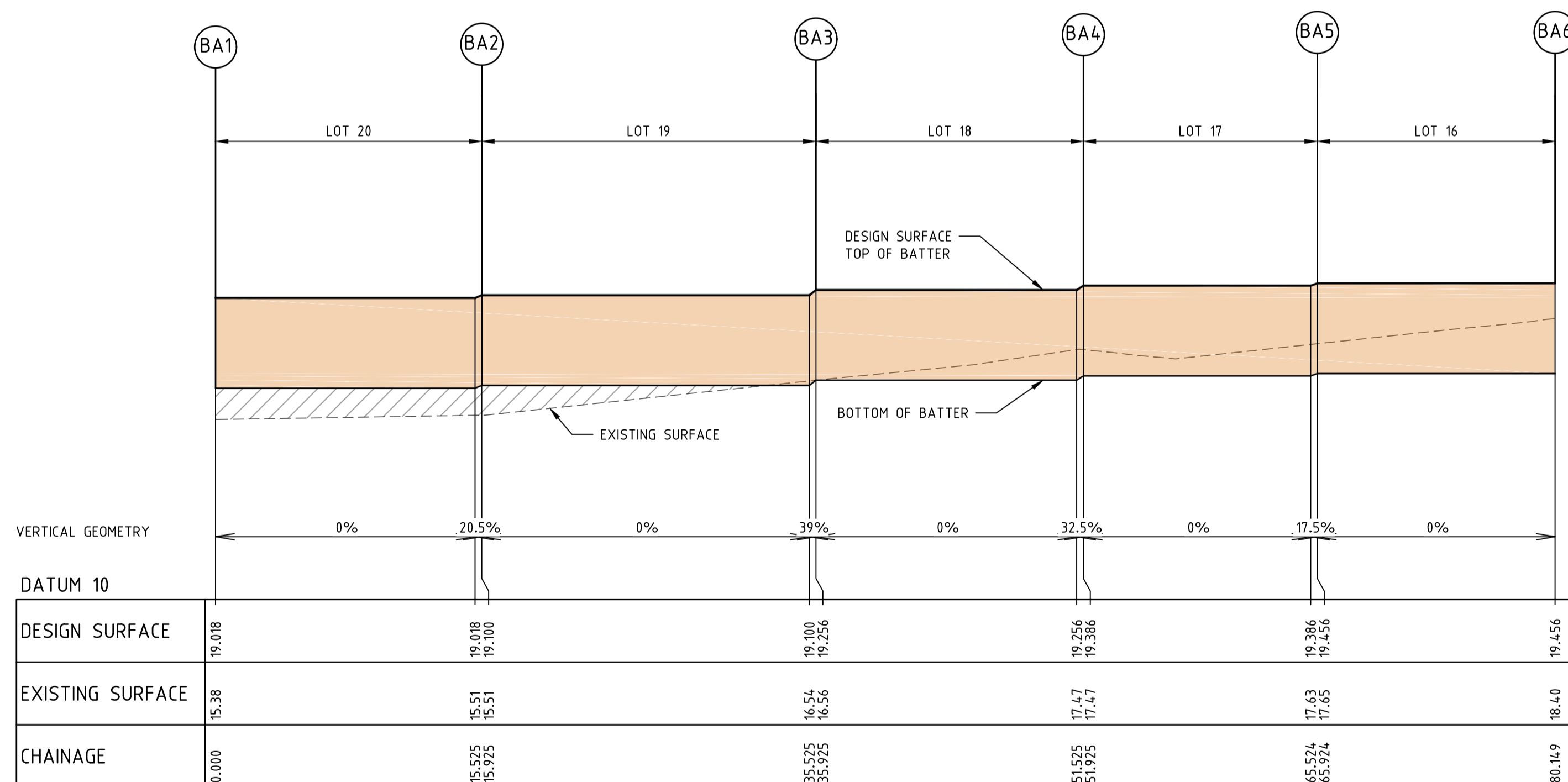
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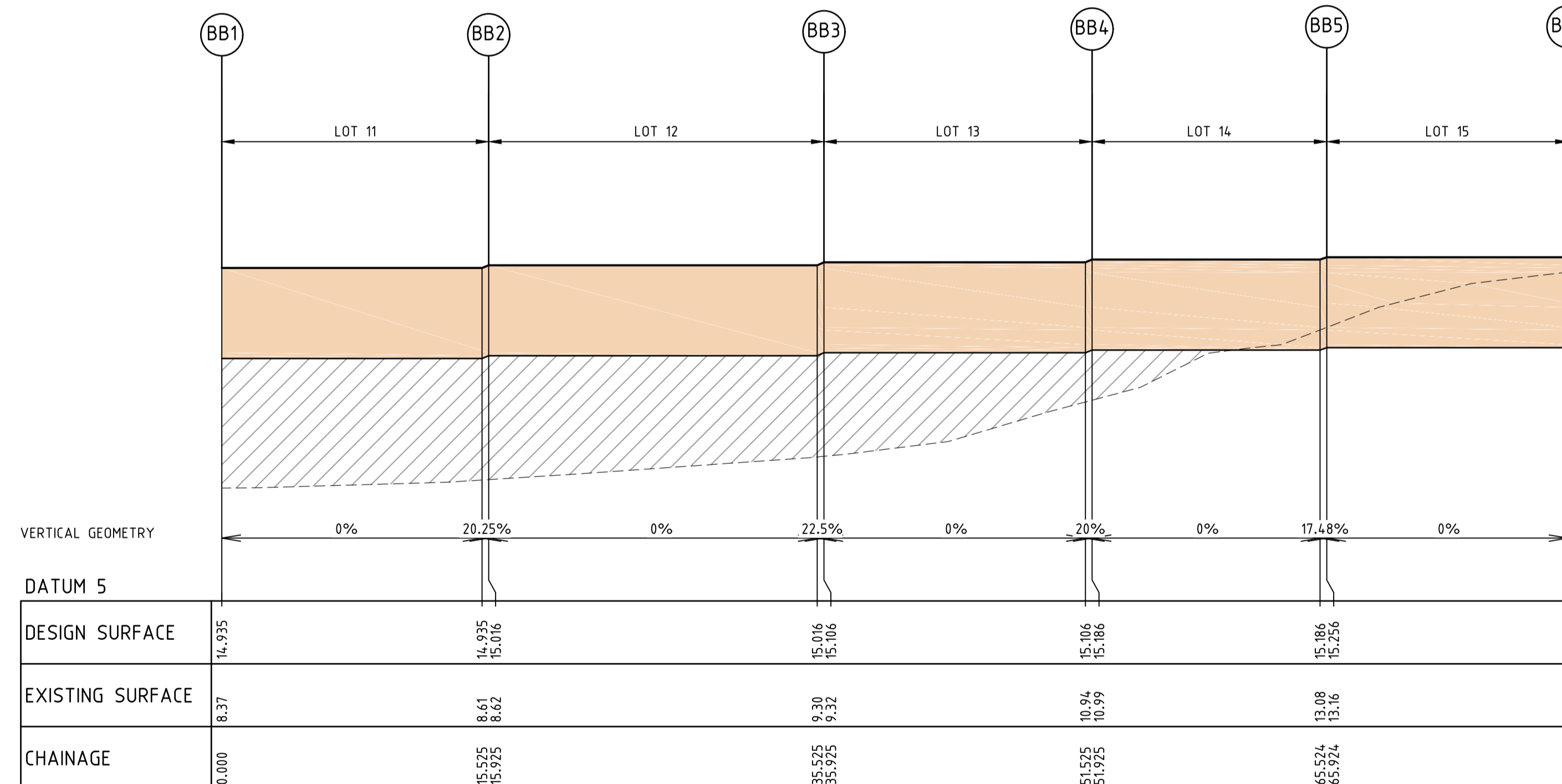
Sheet No. 83 CONSTRUCTION
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LONGITUDINAL SECTION - RETAINING WALL 'C'
2.7m HIGH CONCRETE SLEEPER
LOTS 28 TO 19



LONGITUDINAL SECTION - TOP OF BATTER 'BA'
LOTS 20 TO 16



LONGITUDINAL SECTION - TOP OF BATTER 'BB'
LOTS 11 TO 15

NOTE:
DRAWING TO BE READ IN CONJUNCTION WITH
STRUCTURAL DESIGN DRAWING SET BY OTHERS

1	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS	DATE	APP'D.

Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
AN 1631450
Verified T.THAVENDRAN
Date 20/07/17
AN 943597
Audited R. MASON
Date 17/08/17
AN 705050
Approved T.LIAKOPOULOS
Date 04/09/17
AN 888081

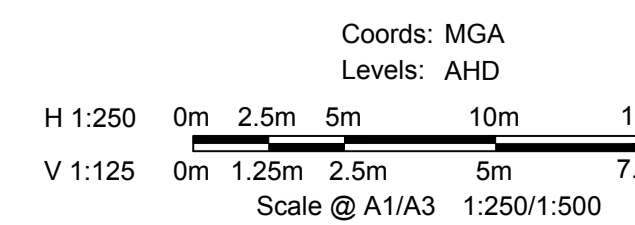
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



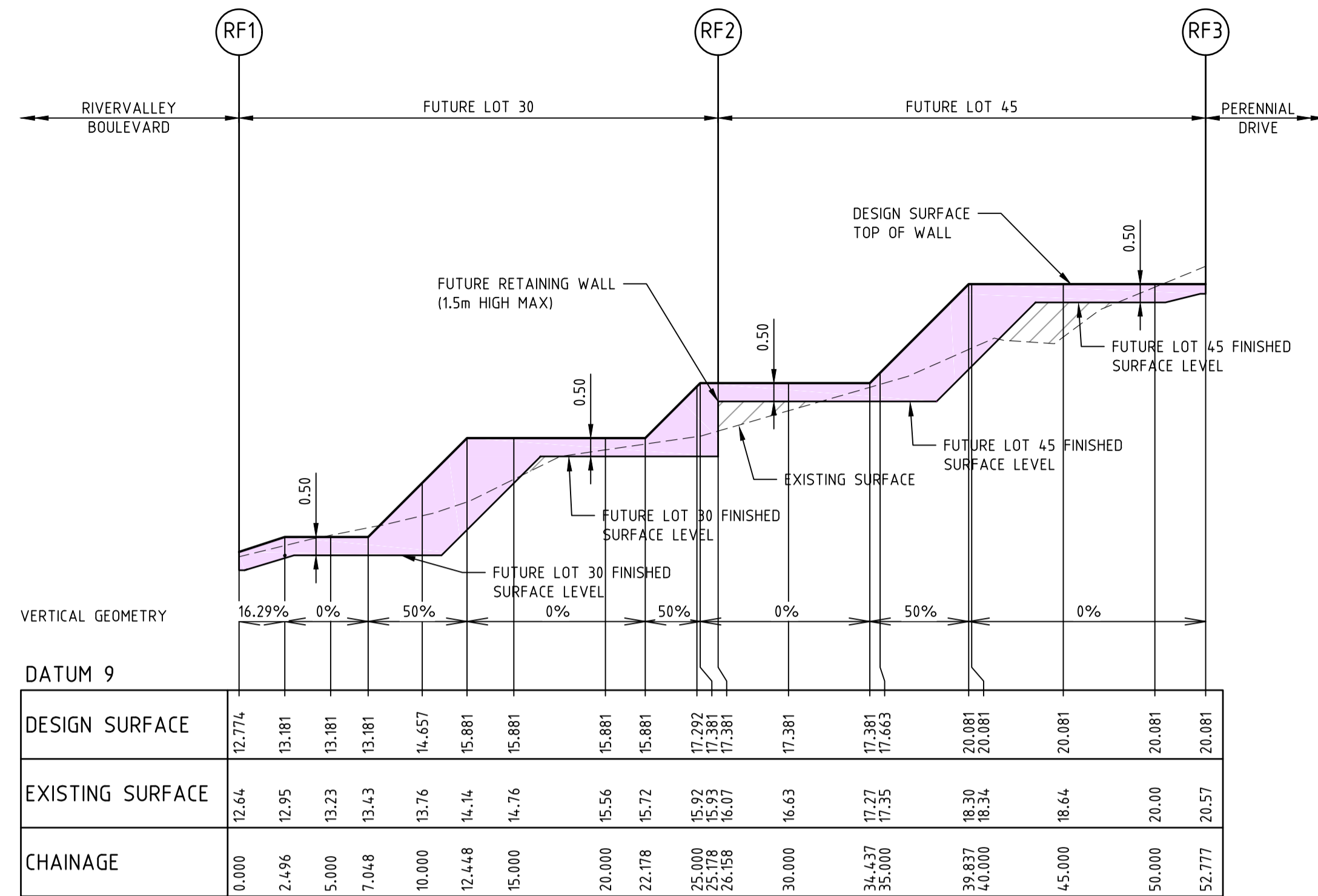
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
RETAINING WALL SECTIONS
SHEET 02 OF 03
Drawing No. 12050RWS02 Rev 1
Sheet No. 84 CONSTRUCTION



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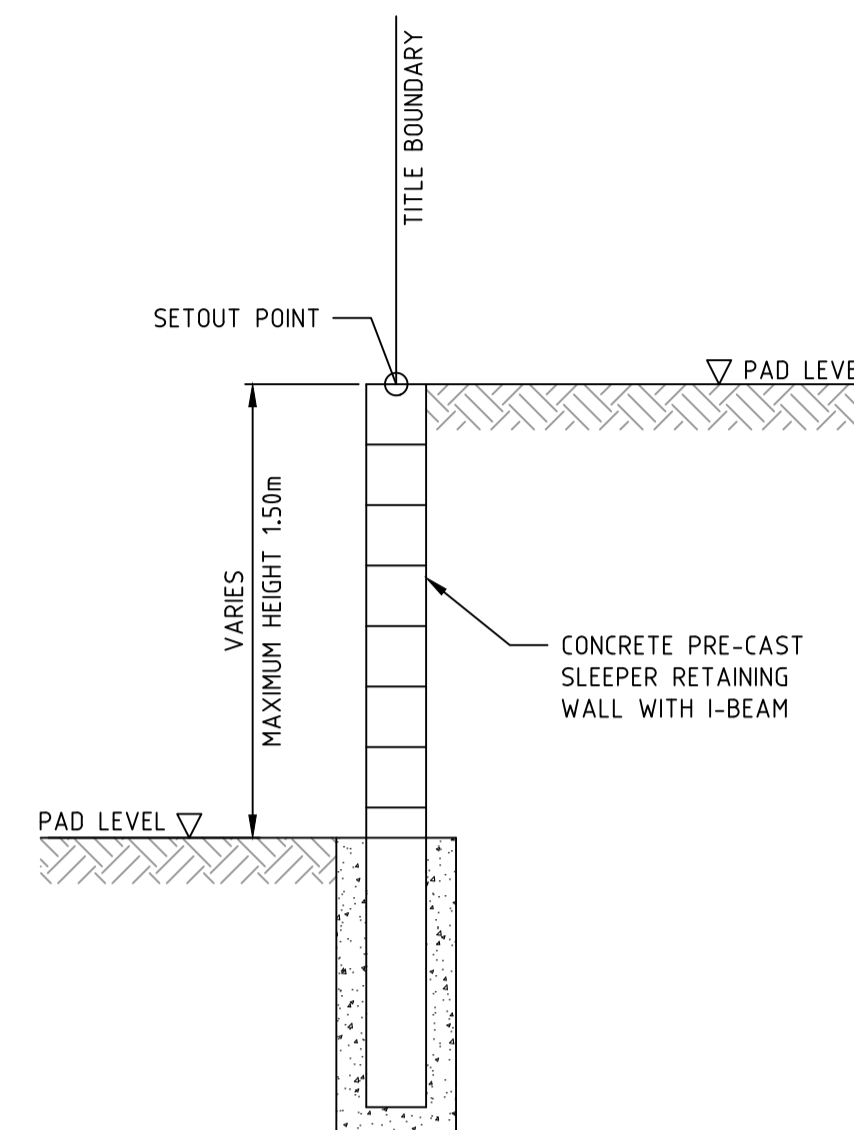


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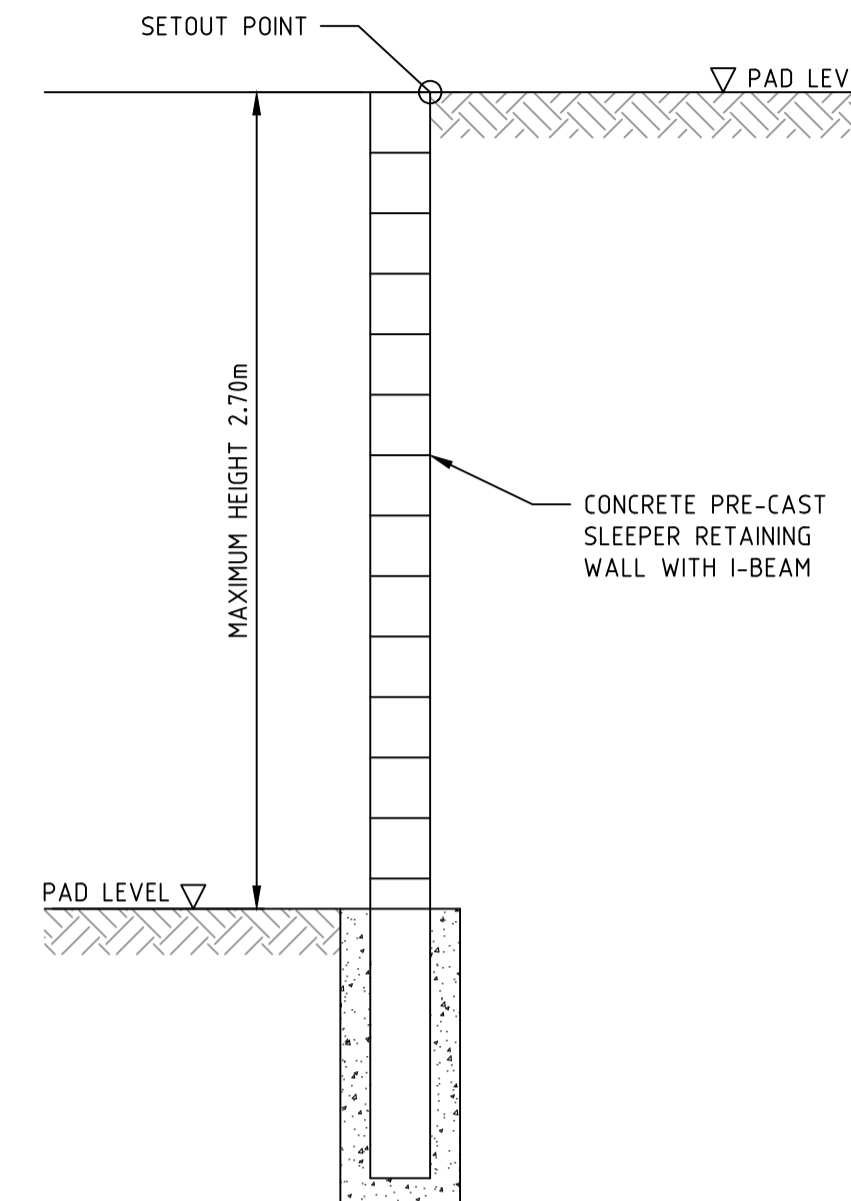


DATUM 9		RF1	RF2	RF3
DESIGN SURFACE		12.774	13.181	13.181
EXISTING SURFACE		12.64	12.95	13.23
CHAINAGE		0.000	2.496	5.000

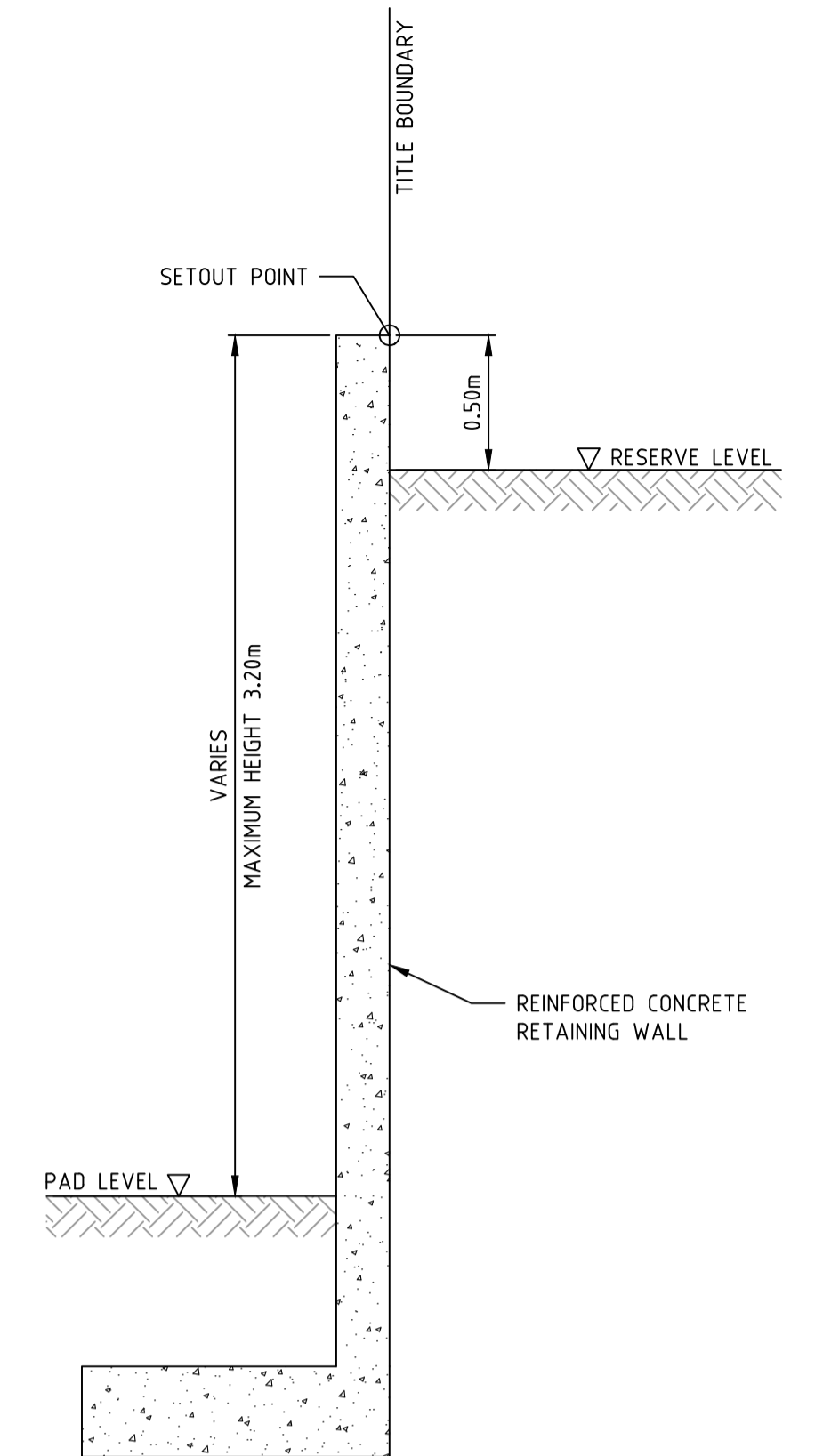
LONGITUDINAL SECTION - RETAINING WALL 'F'
REINFORCED CONCRETE
FUTURE LOTS 30 TO 45



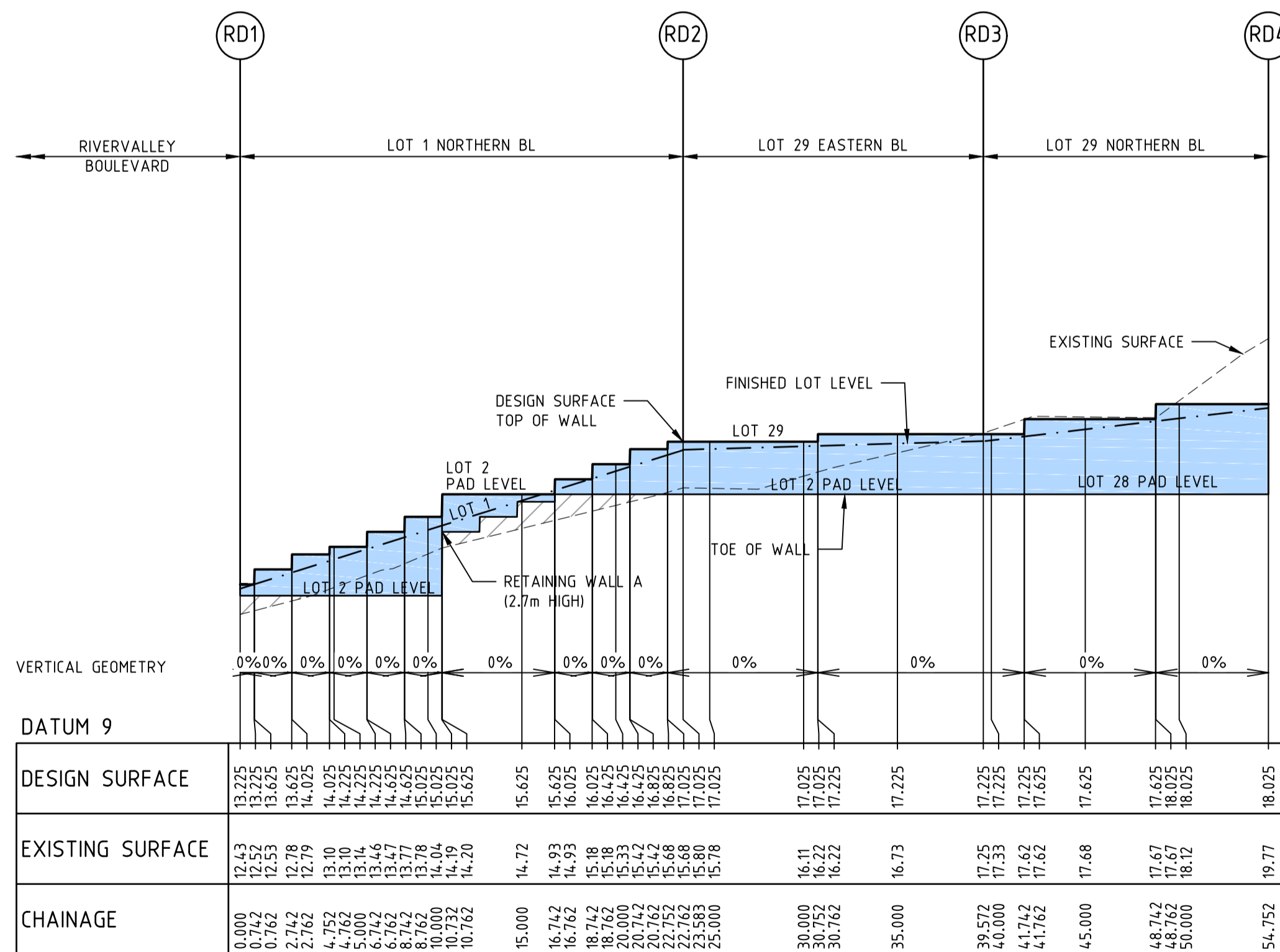
**TYPICAL SECTION
RETAINING WALLS 'B' 'D' 'G' 'H'**
N.T.S



**TYPICAL SECTION
RETAINING WALLS 'A' & 'C'**
N.T.S

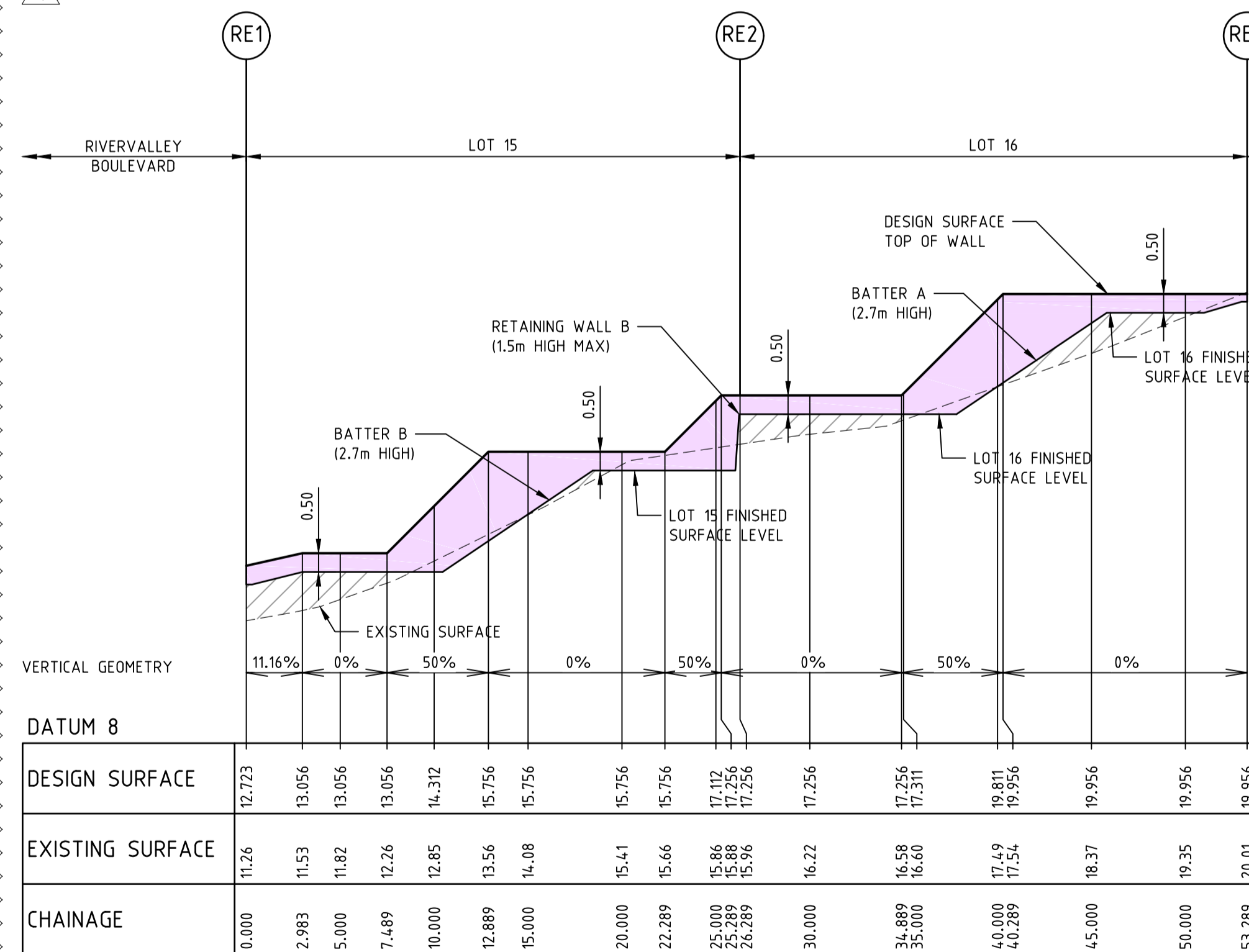


**TYPICAL SECTION
RETAINING WALLS 'E' & 'F'**
N.T.S



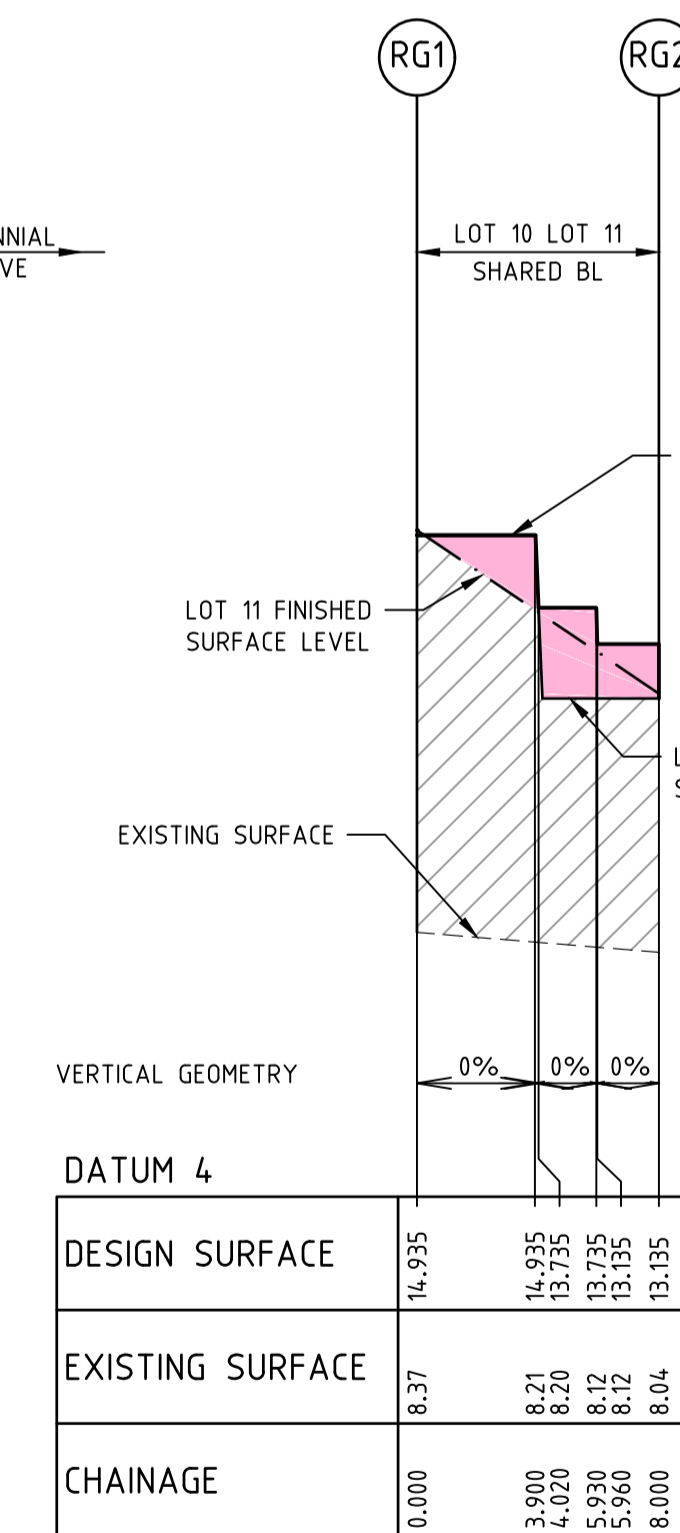
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DESIGN SURFACE		13.225	13.625	14.025	14.425
EXISTING SURFACE		12.43	12.79	13.10	13.47
CHAINAGE		0.000	2.742	5.484	8.226

LONGITUDINAL SECTION - RETAINING WALL 'D'
CONCRETE SLEEPER (KENSINGTON PATTERN)
LOTS 1 TO 29



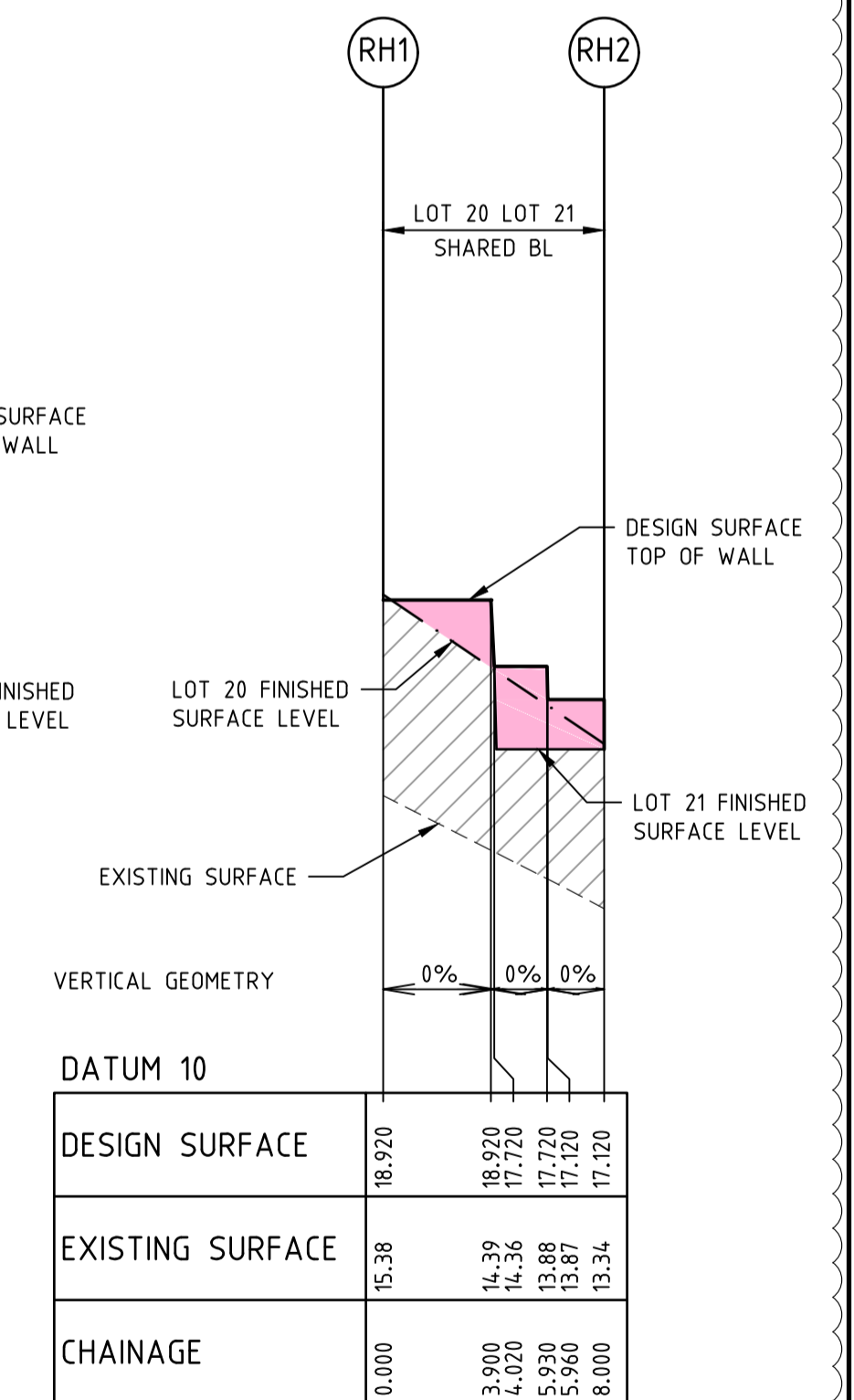
DATUM 8		RE1	RE2	RE3
DESIGN SURFACE		12.723	13.056	13.056
EXISTING SURFACE		11.26	11.53	11.82
CHAINAGE		0.000	2.993	5.000

LONGITUDINAL SECTION - RETAINING WALL 'E'
REINFORCED CONCRETE
LOT 15 TO 16



DATUM 4		RG1	RG2
DESIGN SURFACE		14.935	14.935
EXISTING SURFACE		8.37	8.21
CHAINAGE		0.000	3.000

**LONGITUDINAL SECTION
RETAINING WALL 'G'**
CONCRETE SLEEPER



DATUM 10		RH1	RH2
DESIGN SURFACE		18.920	18.920
EXISTING SURFACE		15.38	14.39
CHAINAGE		0.000	3.000

**LONGITUDINAL SECTION
RETAINING WALL 'H'**
CONCRETE SLEEPER

NOTE:
DRAWING TO BE READ IN CONJUNCTION WITH
STRUCTURAL DESIGN DRAWING SET BY OTHERS

NO	AMENDMENTS	DATE	APP'D.
1	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
Date 24/05/17
AN 1631369
Designed J.BURNS
Date 24/05/17
AN 1631451
Verified T.THAVENDRAN
Date 20/07/17
AN 943598
Audited R.MASON
Date 17/08/17
AN 705051
Approved T.LIAKOPOULOS
Date 04/09/17
AN 888081

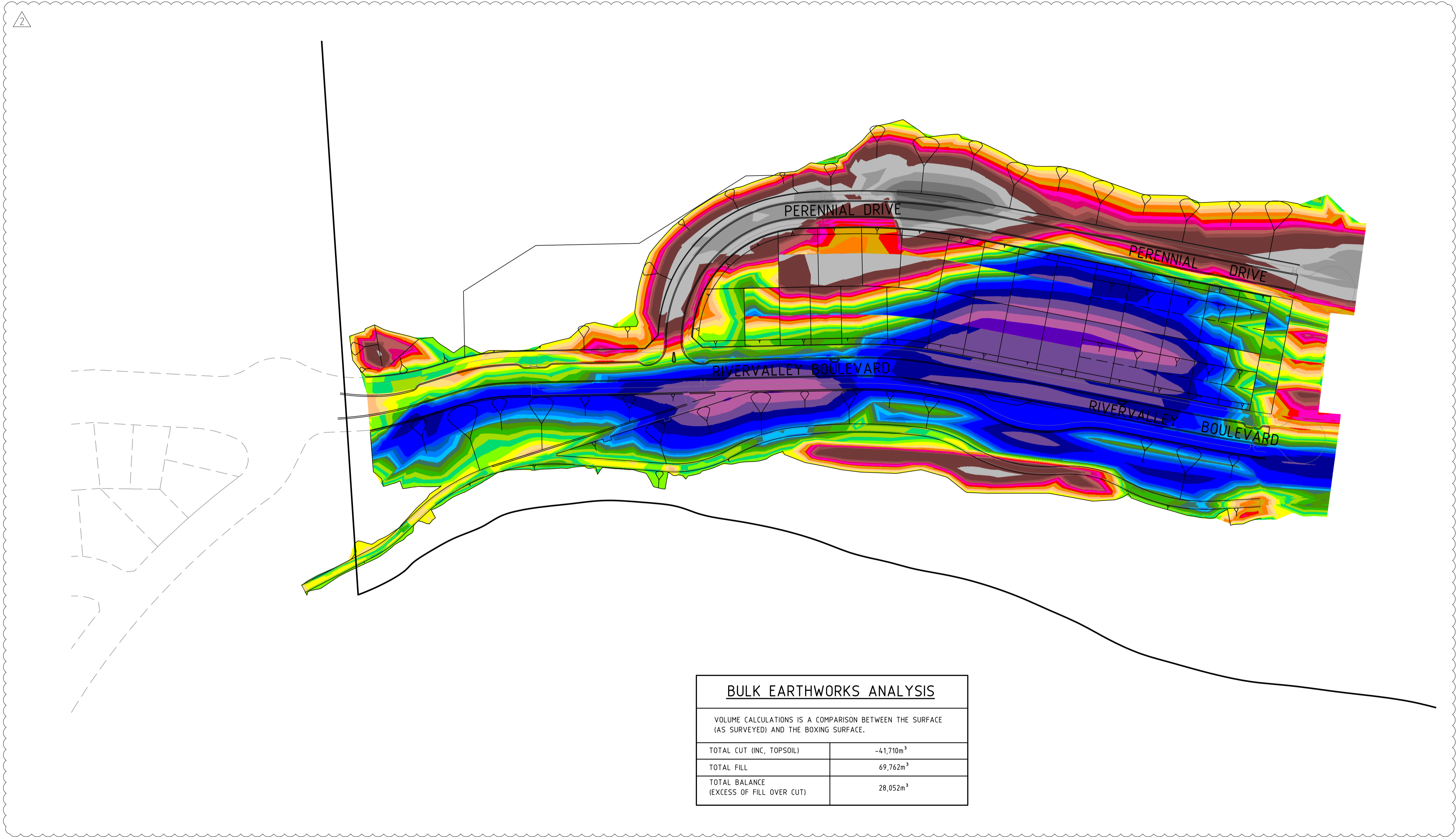
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

RIVER VALLEY
ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
RETAINING WALL SECTIONS
SHEET 03 OF 03
Drawing No. 12050RWS03 Rev 1
Sheet No. 85 CONSTRUCTION

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QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au

Coords: MGA
Levels: AHD
H 1:250 0m 2.5m 5m 10m 15m
V 1:125 0m 1.25m 2.5m 5m 7.5m
Scale @ A1/A3 1:250/1:500
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Drawing File: C:\12_Sydney\12050-River Valley - Stage 7A\8\Book\001
 Drawing Name: 12050EW01 - Bulk Earthworks Plan
 Date/Time: Fri Jul 27, 2018 - 6:15pm - jacob.burns



BULK EARTHWORKS ANALYSIS	
VOLUME CALCULATIONS IS A COMPARISON BETWEEN THE SURFACE (AS SURVEYED) AND THE BOXING SURFACE.	
TOTAL CUT (INC. TOPSOIL)	-41,710m ³
TOTAL FILL	69,762m ³
TOTAL BALANCE (EXCESS OF FILL OVER CUT)	28,052m ³

REV	AMENDMENTS	DATE	APP'D.
2	LOTS 11-20 MID-BLOCK BATTER REMOVED	27/07/18	TL
1	HABITAT CULVERT AMENDMENTS	11/10/17	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631452
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943599
 Audited R.MASON
 Date 17/08/17
 AN 705052
 Approved
 Date 04/09/17
 AN 888081

LEGEND					
█ -100 TO -6m	█ -1.8 TO -1.6m	█ -0.6 TO -0.4m	█ 0.6 TO 0.8m	█ 1.8 TO 2m	
█ -6 TO -5m	█ -1.6 TO -1.4m	█ -0.4 TO -0.2m	█ 0.8 TO 1.0m	█ 2 TO 3m	
█ -5 TO -4m	█ -1.4 TO -1.2m	█ -0.2 TO 0.0m	█ 1.0 TO 1.2m	█ 3 TO 4m	
█ -4 TO -3m	█ -1.2 TO -1.0m	█ 0.0 TO 0.2m	█ 1.2 TO 1.4m	█ 4 TO 5m	
█ -3 TO -2m	█ -1.0 TO -0.8m	█ 0.2 TO 0.4m	█ 1.4 TO 1.6m	█ 5 TO 6m	
█ -2 TO -1.8m	█ -0.8 TO -0.6m	█ 0.4 TO 0.6m	█ 1.6 TO 1.8m	█ 6 TO 100m	

RIVER VALLEY

 Coords: MGA

 Levels: AHD

 Hor 1:1000 0m 10m 20m 40m 60m

 Scale @ A1/A3 1:1000/1:2000

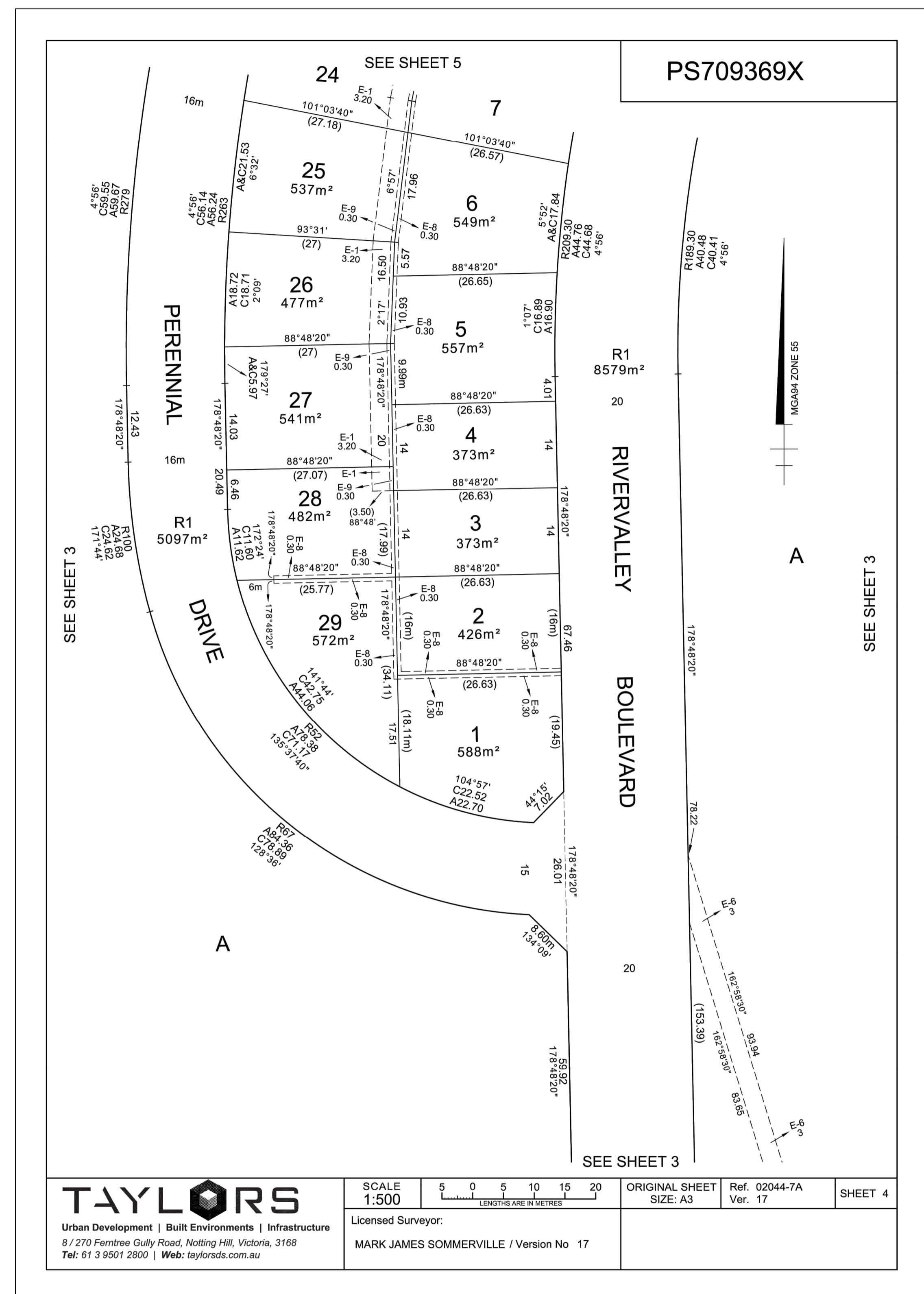
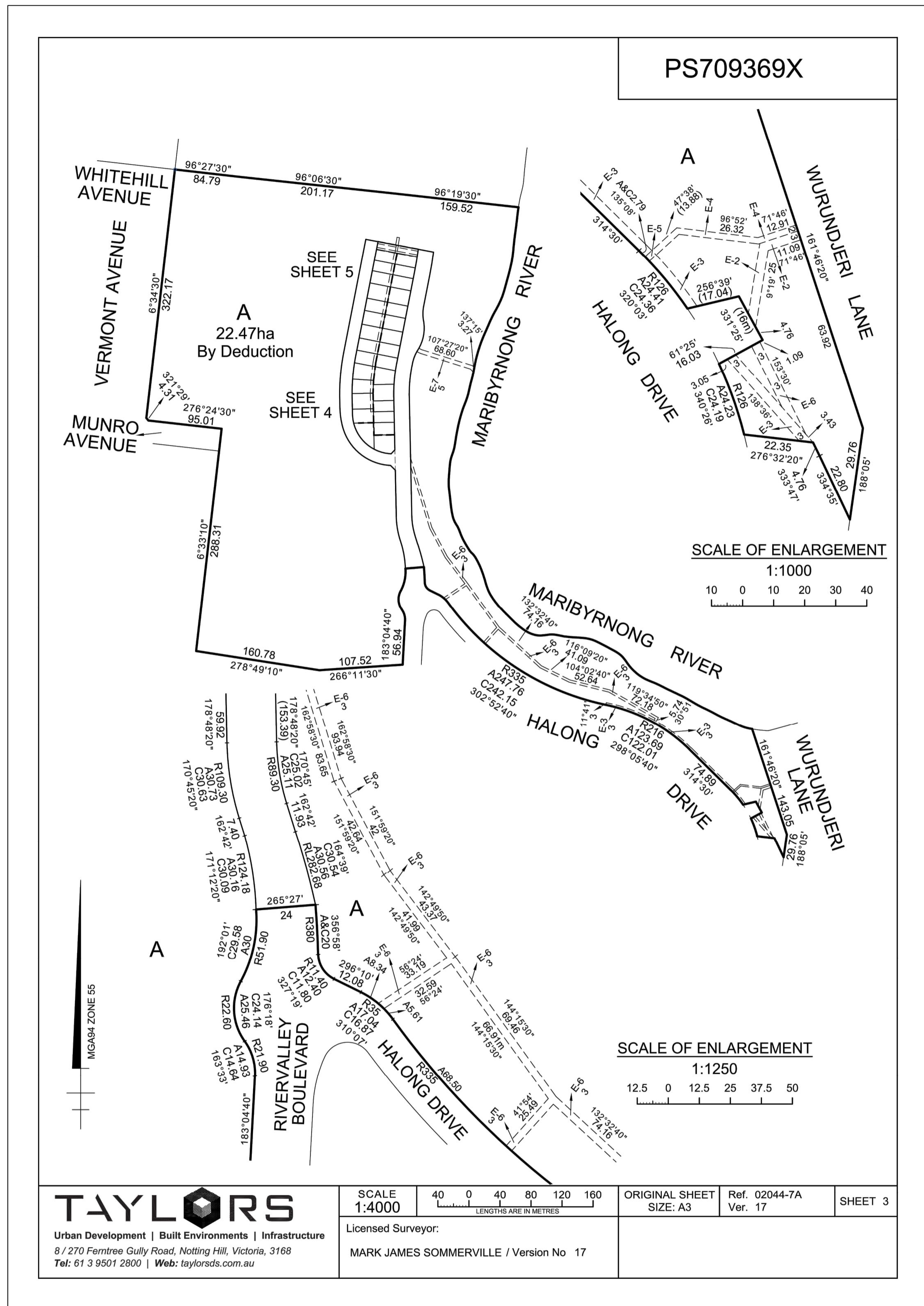
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 BULK EARTHWORKS PLAN

Drawing No. 12050EW01 Rev 2
 Sheet No. 86 **CONSTRUCTION**
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: C:\24_Sunshine\1\2050-river Valley - Stage 7A_8\locat\001
 Drawing No: 12050POS02
 Date/Time: Fri Jul 27, 2018 - 6:15pm - jacob.burns



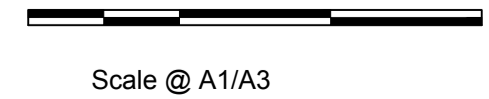
0	CONSTRUCTION ISSUE	25/09/17	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631454
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943601
 Audited R. MASON
 Date 17/08/17
 AN 705054
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



Coords: MGA
Levels: AHD



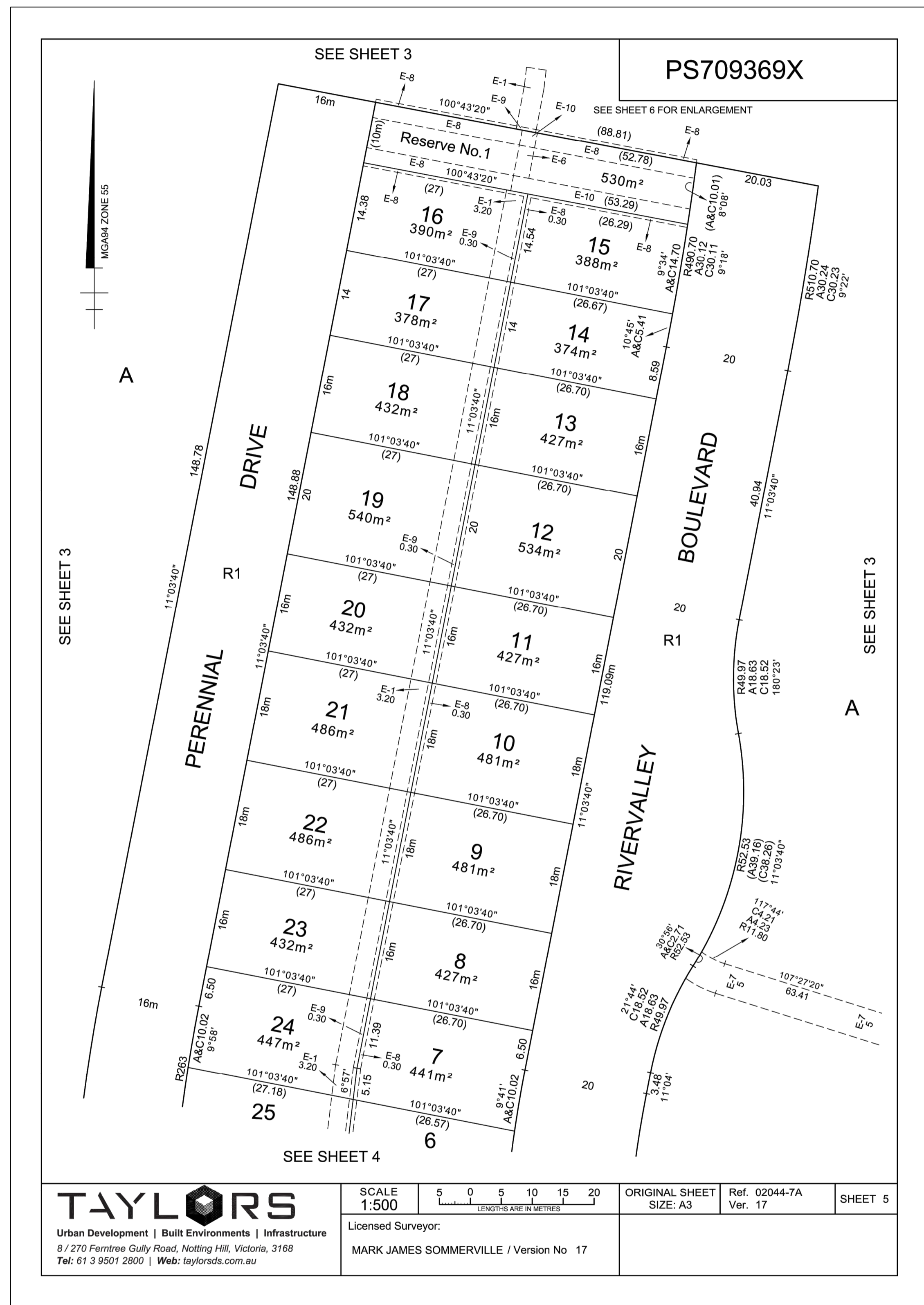
ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 PLAN OF SUBDIVISION
 SHEET 02 OF 03
 Drawing No. 12050POS02 Rev 0
 Sheet No. 88 CONSTRUCTION
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Drawing File: C:\124_Sunshine\12050-river valley - Stage 7A_03\work\001.dwg
 Drawing No: 12050-03-03
 Date/Time: Fri Jul 27, 2018 - 6:15pm - jacobs.burns



TAYLORS
 Urban Development | Built Environments | Infrastructure
 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9501 2800 | Web: taylorssds.com.au

SCALE 1:500
 ORIGINAL SHEET SIZE: A3
 Ref. 02044-7A Ver. 17
 SHEET 5
 Licensed Surveyor:
 MARK JAMES SOMMERVILLE / Version No 17

PS709369X

CREATION OF RESTRICTION 'A'

Upon registration of this plan the following restriction is created.

LAND TO BE BURDENED: Lots 2 to 15 on this plan
 LAND TO BENEFIT: All lots in this plan

DESCRIPTION OF RESTRICTION

All constructed floor levels of any habitable room must not be lower than the Australian Height Datum (AHD) reduced level shown in the table below.

Burdened Lot Number	AHD Floor Level (m)
2	12.93
3	12.79
4	12.71
5	12.63
6	12.54
7	12.44
8	12.36
9	12.27
10	12.24
11	12.24
12	12.32
13	12.41
14	12.49
15	12.56

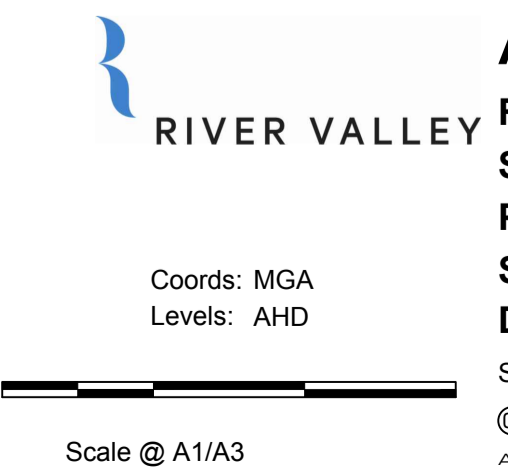
TAYLORS
 Urban Development | Built Environments | Infrastructure
 8 / 270 Ferntree Gully Road, Notting Hill, Victoria, 3168
 Tel: 61 3 9501 2800 | Web: taylorssds.com.au

SCALE 1:500
 ORIGINAL SHEET SIZE: A3
 Ref. 02044-7A Ver. 17
 SHEET 7
 Licensed Surveyor:
 MARK JAMES SOMMERVILLE / Version No 17

REV	DESCRIPTION	DATE	APP'D.
0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS		

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631522
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943602
 Audited R. MASON
 Date 17/08/17
 AN 705055
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
PLAN OF SUBDIVISION
SHEET 03 OF 03
Drawing No. 12050POS03 Rev 0
 Sheet No. 89 **CONSTRUCTION**
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FILL PLAN NOTES


THIS PLAN SHOWS DETAILS OF WORKS AFFECTING THE NATURAL SURFACE OF THE LAND WITHIN THE SUBDIVISION WHICH HAVE BEEN CARRIED OUT OR ARE PROPOSED TO BE CARRIED OUT PRIOR TO REGISTRATION OF THE PLAN OF SUBDIVISION, BEING FILL PLACED ON THE LAND TO THE EXTENT AND DEPTH SHOWN ON THIS PLAN.

THIS PLAN DOES NOT SHOW ANY OTHER FILL WHICH MAY HAVE BEEN PLACED ON THE LAND PRIOR TO THE CIVIL WORKS BEING UNDERTAKEN.

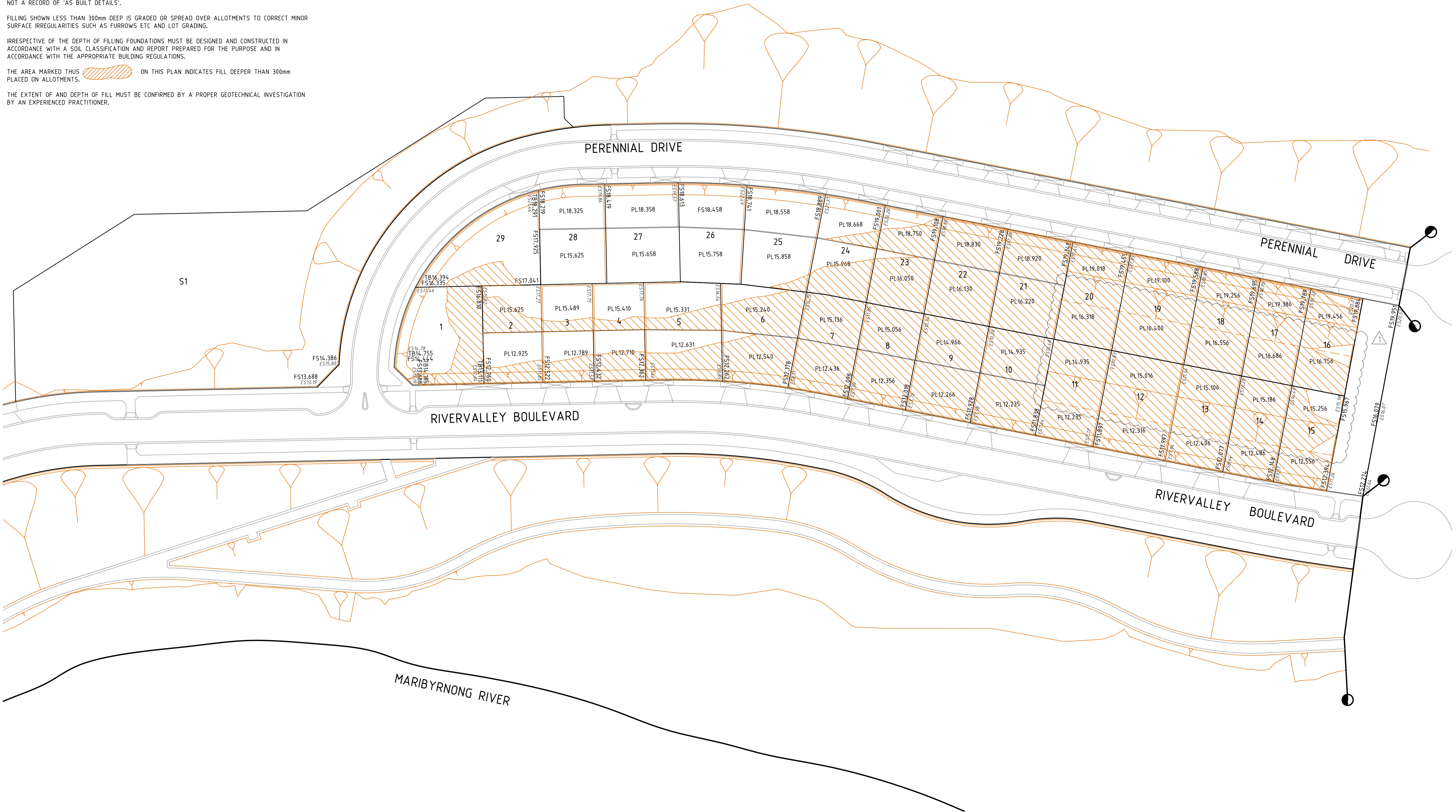
THIS PLAN HAS BEEN PREPARED FOR THE PURPOSE OF CONSTRUCTING SUBDIVISIONAL WORKS AND IS NOT A RECORD OF 'AS BUILT DETAILS'.

FILLING SHOWN LESS THAN 300mm DEEP IS GRADED OR SPREAD OVER ALLOTMENTS TO CORRECT MINOR SURFACE IRREGULARITIES SUCH AS FURROWS ETC AND LOT GRADING.

IRRESPECTIVE OF THE DEPTH OF FILLING FOUNDATIONS MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH A SOIL CLASSIFICATION AND REPORT PREPARED FOR THE PURPOSE AND IN ACCORDANCE WITH THE APPROPRIATE BUILDING REGULATIONS.

THE AREA MARKED THUS  ON THIS PLAN INDICATES FILL DEEPER THAN 300mm PLACED ON ALLOTMENTS.

THE EXTENT OF AND DEPTH OF FILL MUST BE CONFIRMED BY A PROPER GEOTECHNICAL INVESTIGATION BY AN EXPERIENCED PRACTITIONER.



Drawing File: C:\Users\jacob.burns\OneDrive\Documents\12050-Fill Plan - Stage 7A.dwg
 Drawing Date: 27/07/17
 Date/Time: Fri Jul 27, 2018 - 6:15pm - jacob.burns

REV	AMENDMENTS	DATE	APPD.
1	LOTS 11-20 MID-BLOCK WALL REMOVED	27/07/18	TL
0	CONSTRUCTION ISSUE	25/09/17	TL

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631455
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943603
 Audited R. MASON
 Date 17/08/17
 AN 705056
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

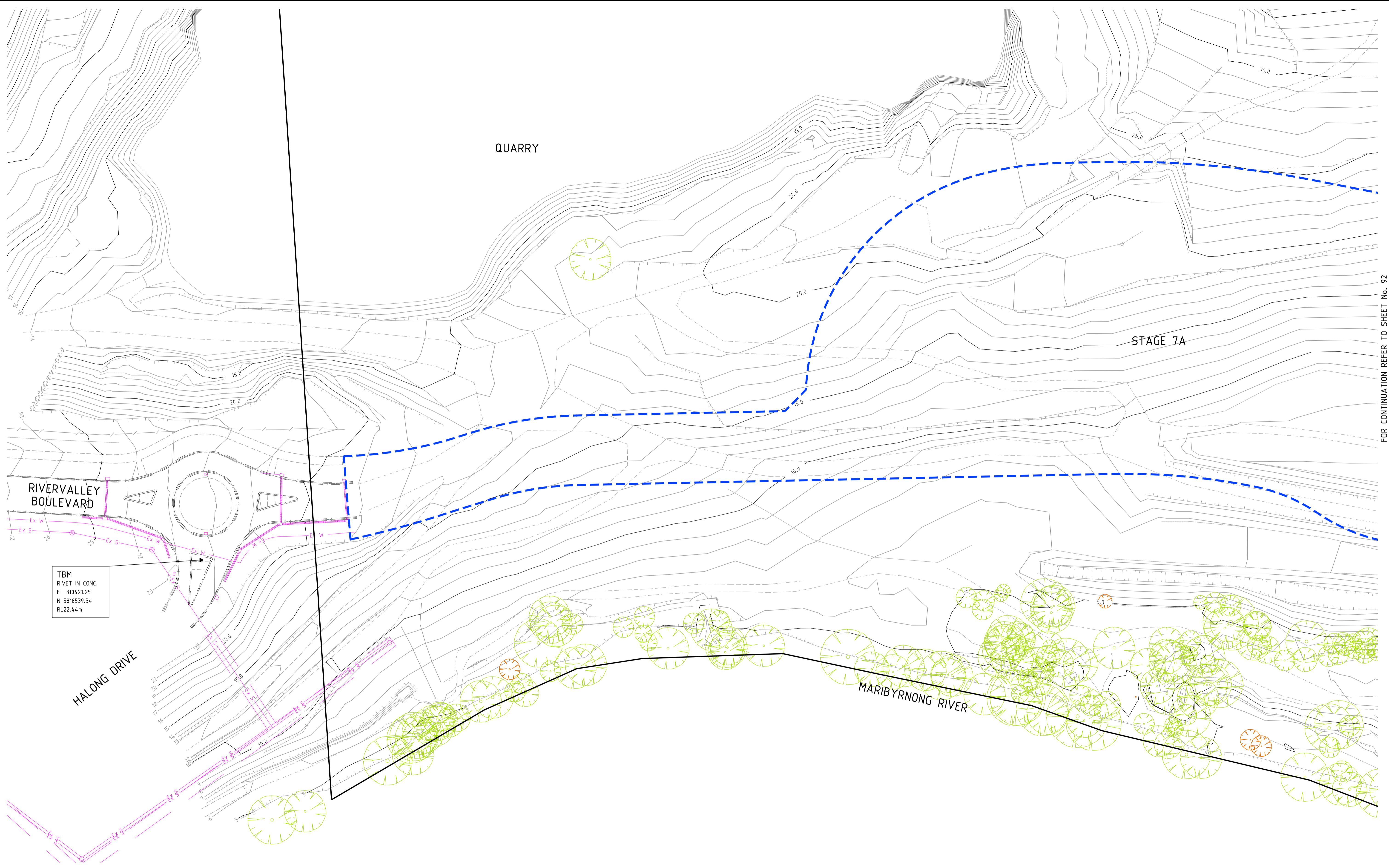
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Coords: MGA
 Levels: AHD
 Hor 1:500 0m 5m 10m 20m 30m
 Scale @ A1/A3 1:500/1:1000

ATLANTIC LINK PTY LTD
 RIVER VALLEY ESTATE - STAGE 7A
 SUNSHINE NORTH
 FILL PLAN
 Drawing No. 12050FP01 Rev 1
 Sheet No. 90 CONSTRUCTION
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 ABN 78 429 221 049

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Drawing File: C:\Users\jacob.burns\OneDrive - RIVER VALLEY\Documents\12050-River Valley - Stage 7A.dwg (V01)
 Drawing Title: RIVER VALLEY NORTH - EXISTING FEATURES PLAN
 Date/Time: Fri Jul 27, 2018 - 6:15pm - jacob.burns



TBM
 RIVET IN CONC.
 E 3104.2125
 N 5818539.34
 RL 22.44m

FOR CONTINUATION REFER TO SHEET No. 92

0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS	DATE	APPD.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631456
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943604
 Audited R.MASON
 Date 17/08/17
 AN 705057
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

- LEGEND**
- Ex W EXISTING WATER MAIN
 - Ex G EXISTING GAS MAIN
 - Ex E EXISTING ELECTRICAL CABLE
 - Ex S EXISTING SEWER MAIN & MANHOLE
 - Ex T EXISTING TELECOMM. CABLE AND PIT
 - V EXISTING ELEC. POLE & O'HEAD LINES
 - EXISTING STORMWATER DRAIN & PIT
 - 22.00 EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING TREES
 - ▲ TEMPORARY BENCH MARK

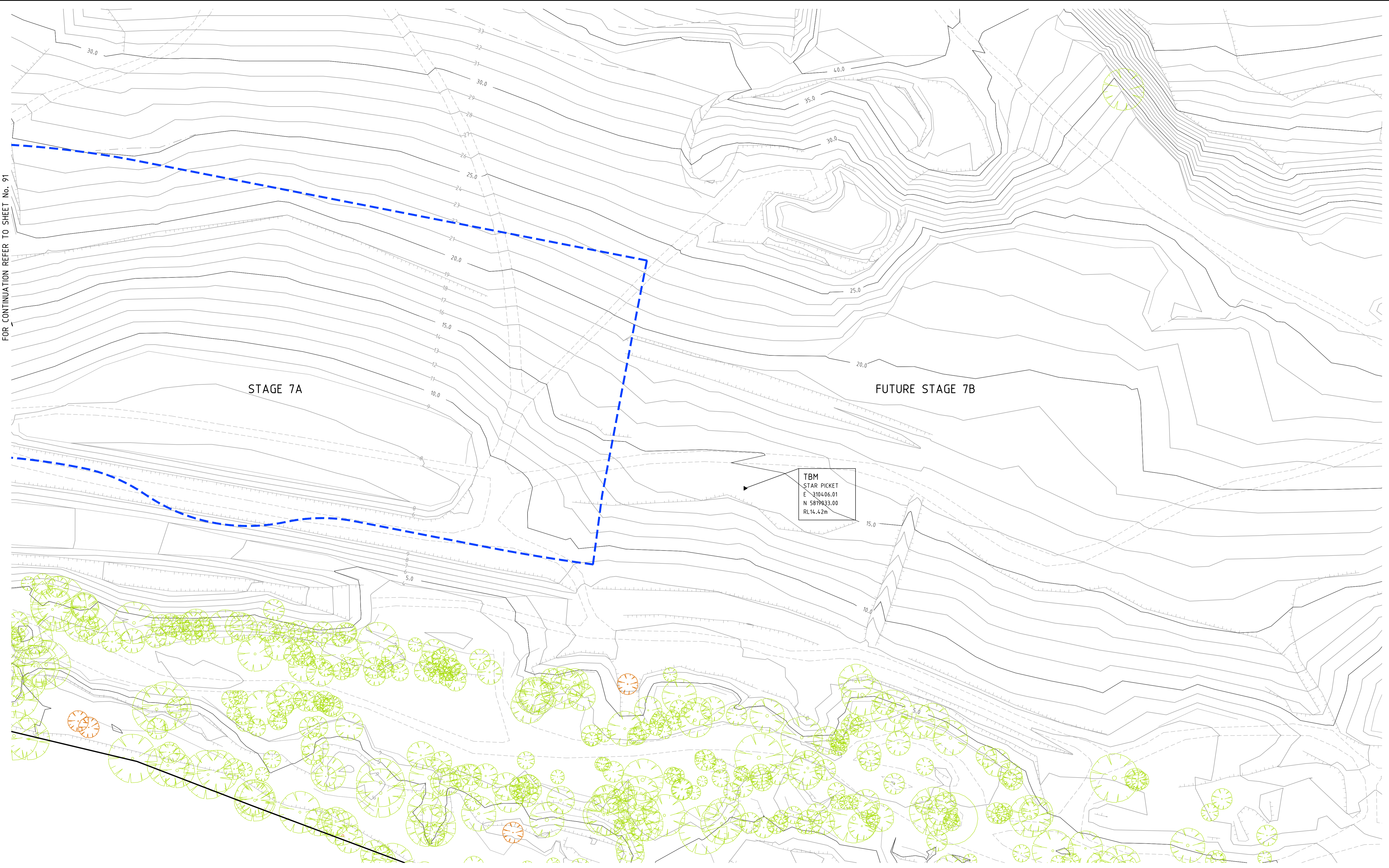
RIVER VALLEY

 Coords: MGA
 Levels: AHD
 Hor 1:500 0m 5m 10m 20m 30m
 Scale @ A1/A3 1:500/1:1000

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
EXISTING FEATURES PLAN
SHEET 01 OF 02
Drawing No. 12050EF01 Rev 0
 Sheet No. 91 **CONSTRUCTION**
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Drawing File: C:\Users\jburns\OneDrive - River Valley Pty Ltd\Documents\12050-River Valley - Stage 7A.dwg
 Drawing Title: SUNSHINE NORTH - EXISTING FEATURES PLAN
 Date/Time: Fri Jul 27, 2018 - 6:15pm - jacob.burns



FOR CONTINUATION REFER TO SHEET No. 91

STAGE 7A

FUTURE STAGE 7B

TBM
 STAR PICKET
 E 310406.01
 N 5819833.00
 RL 14.42m

0	CONSTRUCTION ISSUE	25/09/17	TL
	AMENDMENTS	DATE	APPD.

Drawn J.BURNS
 Date 24/05/17
 AN 1631369
 Designed J.BURNS
 Date 24/05/17
 AN 1631457
 Verified T.THAVENDRAN
 Date 20/07/17
 AN 943605
 Audited R.MASON
 Date 17/08/17
 AN 705058
 Approved T.LIAKOPOULOS
 Date 04/09/17
 AN 888081

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

- LEGEND**
- Ex W — EXISTING WATER MAIN
 - Ex G — EXISTING GAS MAIN
 - Ex E — EXISTING ELECTRICAL CABLE
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 - ▲ TEMPORARY BENCH MARK

RIVER VALLEY

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 Scale @ A1/A3 1:500/1:1000

ATLANTIC LINK PTY LTD
RIVER VALLEY ESTATE - STAGE 7A
SUNSHINE NORTH
EXISTING FEATURES PLAN
SHEET 02 OF 02
Drawing No. 12050EF02 Rev 0
 Sheet No. 92 **CONSTRUCTION**
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