

CATHLAW ON FERRIER

STAGE 1

COLANZ

GENERAL NOTES:

MACEDON RANGES SHIRE COUNCIL GENERAL NOTES

- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE MACEDON RANGES SHIRE COUNCIL STANDARD DRAWINGS, SPECIFICATIONS AND TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- ALL LEVELS SHOWN ARE TO A.H.D.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH & SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, PREVENTION OF FALLS AND PLANT. DETAILS OF THE CONTRACTORS SITE MANAGEMENT PLAN INCLUDING OCCUPATIONAL HEALTH AND SAFETY PROCEDURES MUST BE LODGED WITH THE MACEDON RANGES SHIRE COUNCIL PRIOR TO COMMENCEMENT OF WORKS.
- ON COMMENCEMENT OF CONSTRUCTION WORKS ON SITE, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275). APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.
- NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE CANOPY DRIP LINE OR 5.0M, WHICHEVER IS GREATER OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
- A TEMPORARY 15M HIGH POST & WIRE FENCE SHALL BE ERECTED AND MAINTAINED AROUND EXISTING TREES, NOMINATED TO BE RETAINED AS PER A TREE PROTECTION ZONE (TPZ) CONDITION, AT ALL TIMES DURING CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL SITE SHEDS, VEHICLES, MACHINERY AND EQUIPMENT BE STORED OR PLACED WITHIN FENCED ZONE OF THESE TREES.
- THE CONTRACTOR IS TO OBTAIN THE NECESSARY ASSET PROTECTION PERMIT PRIOR TO UNDERTAKING ANY WORKS WITHIN A PREVIOUSLY CONSTRUCTED ROADWAY.
- THE CONTRACTOR SHALL TO THE SATISFACTION OF THE CONSULTING ENGINEER AND COUNCIL'S REPRESENTATIVE PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNAGE, LIGHTING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF THE ROAD MANAGEMENT ACT.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CARRYING OUT A OBYD AND CONTACTING ALL RELEVANT SERVICE AUTHORITIES AND/OR THEIR AGENTS. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- SERVICE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED AS SPECIFIED BELOW, TO A DRY DENSITY NOT LESS THAN 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - SERVICE TRENCHES BENEATH THE ROAD PAVEMENT, FOOTPATH OR DRIVEWAY CROSSOVER, TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER BEDDING WITH 20MM CLASS 3 FCR WITH 3% CEMENT ADDITIVE.
 - DRAINAGE PIPES ADJACENT TO KERBING OR CONCRETE STRUCTURES WITH 20MM CLASS 4 FCR TO A LEVEL THAT IS NOT AFFECTED BY A 4.5 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE OF SUCH STRUCTURE, OTHERWISE TO FULL DEPTH.
- ALL EXCAVATIONS OF A DEPTH 15M OR GREATER MUST COMPLY WITH WORKCOVER VICTORIA. A "NOTICE OF INTENTION TO EXCAVATE..." FORM MUST BE SUBMITTED TO WORKCOVER 3 DAYS PRIOR TO THE WORK EXCAVATIONS.
 - CALL 1800 136 089 TOLL FREE OR 031 9641 1444 TO OBTAIN FORM.
 - FAX FORMS TO: 031 9565 9400 OR 9941 0555.
- ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25 MPA AT 28 DAYS.
- ALL DRAINAGE PIPES ARE TO BE REINFORCED CONCRETE CLASS 2 RUBBER RING JOINTED AS A MINIMUM UNLESS OTHERWISE APPROVED. ALL P.V.C. PIPES TO BE CLASS SH UNLESS OTHERWISE APPROVED.
- SIDE ENTRY PIT LINTELS ARE TO BE SET BACK AND UP 50MM FROM HORIZONTAL AND VERTICAL ALIGNMENTS IN ACCORDANCE WITH THE MACEDON RANGES SHIRE COUNCIL STANDARD DRAWING SD02.
- 100MM DIA. AGRICULTURAL PIPE DRAINS TO BE PLACED BEHIND ALL KERB AND CHANNEL ON 20MM AGGREGATE BEDDING, 200MM BELOW SUBGRADE, AT GRADE AND WHERE DIRECTED BY THE CONSULTING ENGINEER.
- MINIMUM COVER TO OBVERT OF DRAINAGE PIPES SHALL BE 300MM IN EASEMENTS AND 500MM IN ROAD RESERVES, EXCEPT WHERE PIPE CLASS '4' WILL BE INSTALLED.
- PROPERTY CONNECTIONS TO MAIN PIPES SHALL BE VIA APPROVED SPECIFICALLY DESIGNED FITTINGS. MORTAR BANDAGES ARE NOT TO BE USED UNLESS APPROVED BY COUNCIL.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED USING APPROVED CLAY FILL AND THEN TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150MM LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 3798-2007 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS. ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED. IT'S CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL

MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.

- BATTERS SHALL BE 1 IN 6 UNLESS OTHERWISE APPROVED AND COVERED AND SMOOTHED WITH MINIMUM OF 100MM TOPSOIL.
- ALL KERB RETURN RADII ARE TO LIP OF KERB UNLESS OTHERWISE SPECIFIED.
- KERB TYPES SHALL BE AS SPECIFIED IN ACCORDANCE WITH THE MACEDON RANGES SHIRE COUNCIL STANDARD DRAWINGS SD009 & SD010. TRANSITION LENGTHS BETWEEN DIFFERENT KERB TYPES TO BE OVER 3.0M ONLY IF IT CANNOT BE ACHIEVED AT A PRAM CROSSING OR DRIVEWAY CROSSOVER.
- THE CONTRACTOR TO ERECT STREET NAME SIGNS AND GALVANISED IRON POSTS AS DIRECTED BY THE SUPERINTENDENT AND PROVIDE THE PROVISION OF A SLEEVE.
- STREET LIGHTING IS TO BE PROVIDED IN ACCORDANCE WITH COUNCIL'S "POLICY ENGINEERING REQUIREMENTS FOR INFRASTRUCTURE CONSTRUCTION" UNLESS OTHERWISE APPROVED.
- ALL FOOTPATHS TO BE A MINIMUM OF 150M WIDE IN ACCORDANCE WITH THE MACEDON RANGES SHIRE COUNCIL STANDARD DRAWING SD005.
- ROAD PAVEMENTS ARE TO HAVE A MINIMUM DEPTH OF 300MM INCLUDING SURFACING.
- ALL ROAD GUIDE POSTS ARE TO BE "RUBBERTUFF".
- THE RELATIVE COMPACTION OF CRUSHED ROCK (FCR) FOR PAVEMENTS SHALL BE COMPLETED AT THE OPTIMUM MOISTURE CONTENT TO A DRY DENSITY (BASED ON THE PERCENTAGE OF THE MAXIMUM DRY DENSITY OBTAINED IN THE MODIFIED COMPACTION TEST) AS BELOW, PROVIDE TEST RESULTS TO COUNCIL FOR:
 - DEPTH 0 - 100MM BELOW TOP OF BASE. RELATIVE COMPACTION - 100% (MODIFIED).
 - SUBGRADE BELOW ALL PAVEMENTS SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF THE MAXIMUM FOUND IN STANDARD COMPACTION TEST IN AREAS OF CUT TO A DEPTH OF 150MM AND IN AREAS OF FILL TO A DEPTH OF 450MM.
- OPEN SPACE RESERVES:
 - RESERVES TO BE EVENLY GRADED, SEEDED AND FREE DRAINING TO THE SATISFACTION OF RESPONSIBLE AUTHORITY.
 - DESIGN INFORMATION TO INCLUDE RETICULATED WATER SUPPLY IN U/G PIT CONFIGURATION, BOLLARDS, SEATING, PLAYGROUND EQUIPMENT AND BBO'S ETC. WHERE REQUIRED BY THE PERMIT.
- ALL NATURE STRIPS, EXCAVATED OR FILLED AREAS WITHIN THE ROAD RESERVE SHALL BE RESURFACED WITH A 100MM LAYER OF TOPSOIL AS SPECIFIED, FREE FROM CLAY AND STONE, EVENLY GRADED AND SEEDED TO THE SATISFACTION OF RESPONSIBLE AUTHORITY.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL BUILDING WASTE, RUBBISH AND SPOIL FROM THE SITE. NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS IS TO BE BURNT ON SITE.
- AS-CONSTRUCTED DATA INCLUDING ALTERATIONS DURING CONSTRUCTION ARE TO BE PROVIDED PRIOR TO ISSUE OF STATEMENT OF COMPLIANCE:
 - DRAWINGS ARE TO BE IN A1 AND A3 HARD COPY AND IN AUTOCAD (2010) AND ACR0BAT PDF FORMATS.
 - ASSET INFORMATION IN DIGITAL FORMAT TO INCLUDE ASSET DATA AS PER A-SPEC STANDARDS (DEVELOPER/CONSULTANT SPECIFICATIONS FOR THE DELIVERY OF ASSET DATA TO LOCAL GOVERNMENT), INCORPORATING R-SPEC (ROADS), D-SPEC (DRAINAGE) AND O-SPEC (OPEN SPACE).
- THE FOLLOWING HOLD POINT INSPECTIONS SHALL APPLY UNTIL WORKS ARE APPROVED BY COUNCIL'S SUPERVISING OFFICER. CONSULTING ENGINEER TO BE PRESENT AT THESE HOLD POINTS;
 - PRE-COMMENCEMENT SITE MEETING
 - ROAD SUBGRADE PRIOR TO PLACEMENT OF SUB-BASE (INCLUDING PROOF-ROLL)
 - SUB-BASE PRIOR TO PLACEMENT OF BASE COURSE (INCLUDING PROOF-ROLL).
 - BASE COURSE PRIOR TO SEALING (INCLUDING PROOF-ROLL)
 - INSPECTION AT PRACTICAL COMPLETION OF THE WORKS (COMMENCEMENT OF DEFECTS LIABILITY PERIOD).
 - FINAL INSPECTION AT THE END OF 12 MONTHS DEFECTS LIABILITY PERIOD.

- THE FOLLOWING INSPECTIONS ARE ALSO TO BE CARRIED OUT BY COUNCIL'S SUPERVISING OFFICER:
- STORMWATER DRAINAGE, INCLUDING SUBSOIL AG DRAINS, AND HOUSE CONNECTIONS, PRIOR TO BACKFILLING (HOLD POINT).
 - FOOTPATH, DRIVEWAY AND KERB AND CHANNEL PRIOR TO PLACEMENT OF CONCRETE (HOLD POINT).
 - INSPECTION OF ALL TRAFFIC CONTROL AND SIGNAGE IN ACCORDANCE WITH APPROVED PLANS.
 - INSPECTION OF WORKS IN ACCORDANCE WITH APPROVED LANDSCAPE PLANS.
 - ANY OTHER INSPECTIONS AS DETERMINED BY THE COUNCIL.

SPIIRE GENERAL NOTES

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN $\pm 0.05m$.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB
- WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION
- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.
- GAS AND WATER CONDUITS ARE TO BE,
 - $\varnothing 50mm$ - CLASS 12 P.V.C. - SINGLE SERVICE
 - $\varnothing 100mm$ - CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)
- WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
 - ROAD PAVEMENT - 0.80m
 - VERGE, FOOTPATHS - 0.45m
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- TELSTRA ARE TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
- WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- NO FILL OR STOCKPIILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE.
- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS..
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.



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LOCALITY PLAN

SCALE: NOT TO SCALE
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DRAWING SCHEDULE

REFERENCE	DESCRIPTION	REVISION	SHEET No.
CR100	FACE SHEET	0	1
CR200	DETAIL PLAN	0	2
CR201	SERVICES PLAN	0	3
CR201	PAVEMENT PLAN	0	4
CR300	ROAD LONGITUDINAL SECTIONS, SHEET 1 OF 3	0	5
CR301	ROAD LONGITUDINAL SECTIONS, SHEET 2 OF 3	0	6
CR302	ROAD LONGITUDINAL SECTIONS, SHEET 3 OF 3	0	7
CR400	ROAD CROSS SECTIONS, SHEET 1 OF 5	0	8
CR401	ROAD CROSS SECTIONS, SHEET 2 OF 5	0	9
CR402	ROAD CROSS SECTIONS, SHEET 3 OF 5	0	10
CR403	ROAD CROSS SECTIONS, SHEET 4 OF 5	0	11
CR404	ROAD CROSS SECTIONS, SHEET 5 OF 5	0	12
CR500	INTERSECTION DETAILS, SHEET 1 OF 2	0	13
CR501	INTERSECTION DETAILS, SHEET 2 OF 2	0	14
CR600	DRAINAGE LONG SECTIONS (SHEET 1 OF 7)	0	15
CR601	DRAINAGE LONG SECTIONS (SHEET 2 OF 7)	0	16
CR602	DRAINAGE LONG SECTIONS (SHEET 3 OF 7)	0	17
CR600	DRAINAGE LONG SECTIONS (SHEET 4 OF 7)	0	18
CR601	DRAINAGE LONG SECTIONS (SHEET 5 OF 7)	0	19
CR602	DRAINAGE LONG SECTIONS (SHEET 6 OF 7)	0	20
CR603	PIT SCHEDULE	0	21
CR700	PAVEMENT AND TYPICAL DETAILS	0	22
CR800	SIGNAGE AND LINEMARKING PLAN	0	23



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

LEGEND	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT		
WATER RECYCLED		
UNDERGROUND ELECTRICITY		
OVERHEAD ELECTRICITY & POLE		
TELSTRA & SERVICE PIT		
OPTIC FIBRE		
OVERHEAD TELSTRA		
GAS MAIN		
BRANCH SEWER & MANHOLE		
SEWER & MANHOLE		
SEWER RISING MAIN		
COUNCIL STORMWATER DRAIN & PIT		
STORMWATER DRAINAGE PROPERTY INLETS		
COUNCIL STORMWATER PITS		
HOUSE DRAIN		
AG DRAIN AND FLUSHER		
STORMWATER DRAINAGE PIT NUMBER		
GAS & WATER CONDUITS		
CONCRETE VEHICLE CROSSING		
PAVEMENT SAWCUT LINE		
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MINOR		
SURFACE CONTOUR MAJOR		
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
EARTHWORKS GRADE		1 in 150
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
ROAD/PIT CHAINAGES	RDCH 116.57 (L/R)TPCH 116.57 PITCH 116.57	RDCH 116.57 (L/R)TPCH 116.57 PITCH 116.57
PARKING BAYS CHAINAGES	PTPCH 116.57	PTPCH 116.57
LOT CHAINAGE	CH20.06	CH20.06
SETOUT POINT		
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.20m		
EXISTING PAVEMENT TO BE RECONSTRUCTED (FULL DEPTH)		
FENCE - TREE PROTECTION		
SURVEYED CANOPY		
FENCE - EXISTING FARM FENCE TO BE REMOVED		
FENCE - VEHICLE EXCLUSION		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE REMOVED		
VEGETATION LINE		

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O	ISSUED FOR CONSTRUCTION, SHEETS CR200-201,500-501,601,605-606 UPDATED	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18
Rev	Amendments	Approved	Date



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Checked
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Date
27-06-2018

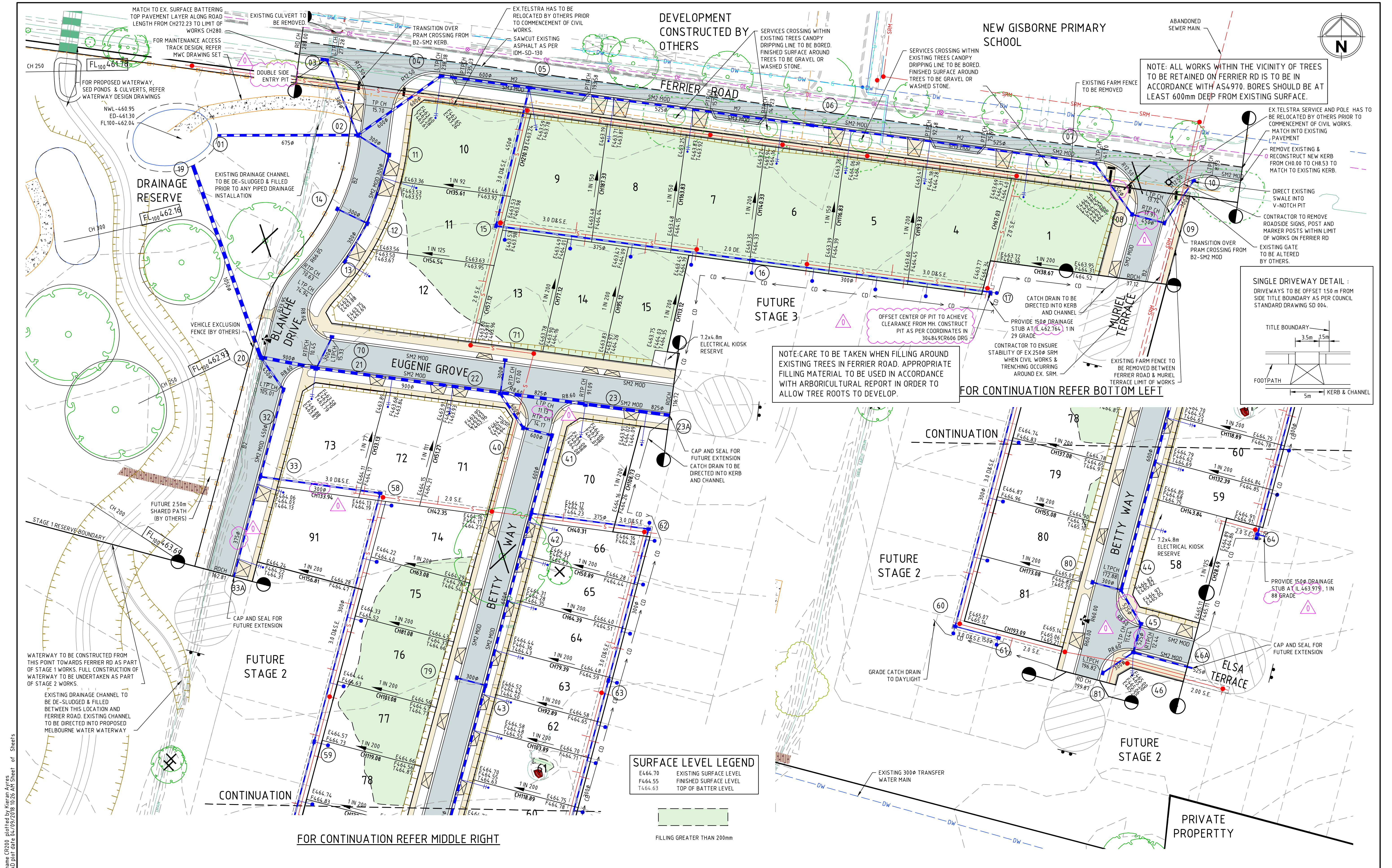
CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
FACE SHEET
MACEDON RANGES SHIRE COUNCIL
COLANZ

CONSTRUCTION Drg No
304849CR100

Rev
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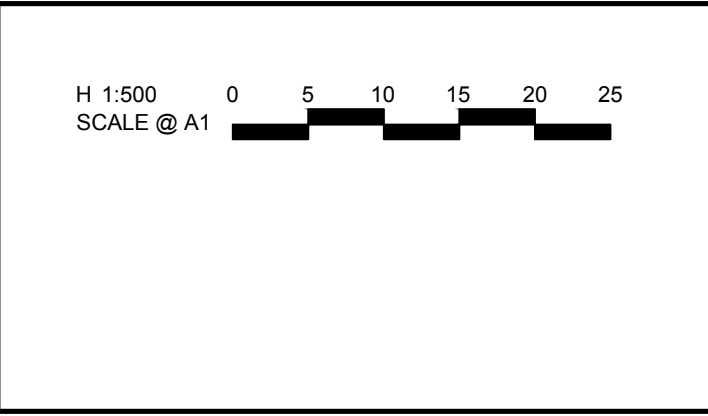
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AUTHORISED OFFICER:
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0	ISSUED FOR CONSTRUCTION, PIPE SIZE, NOTES UPDATED	J.P.	31-08-18
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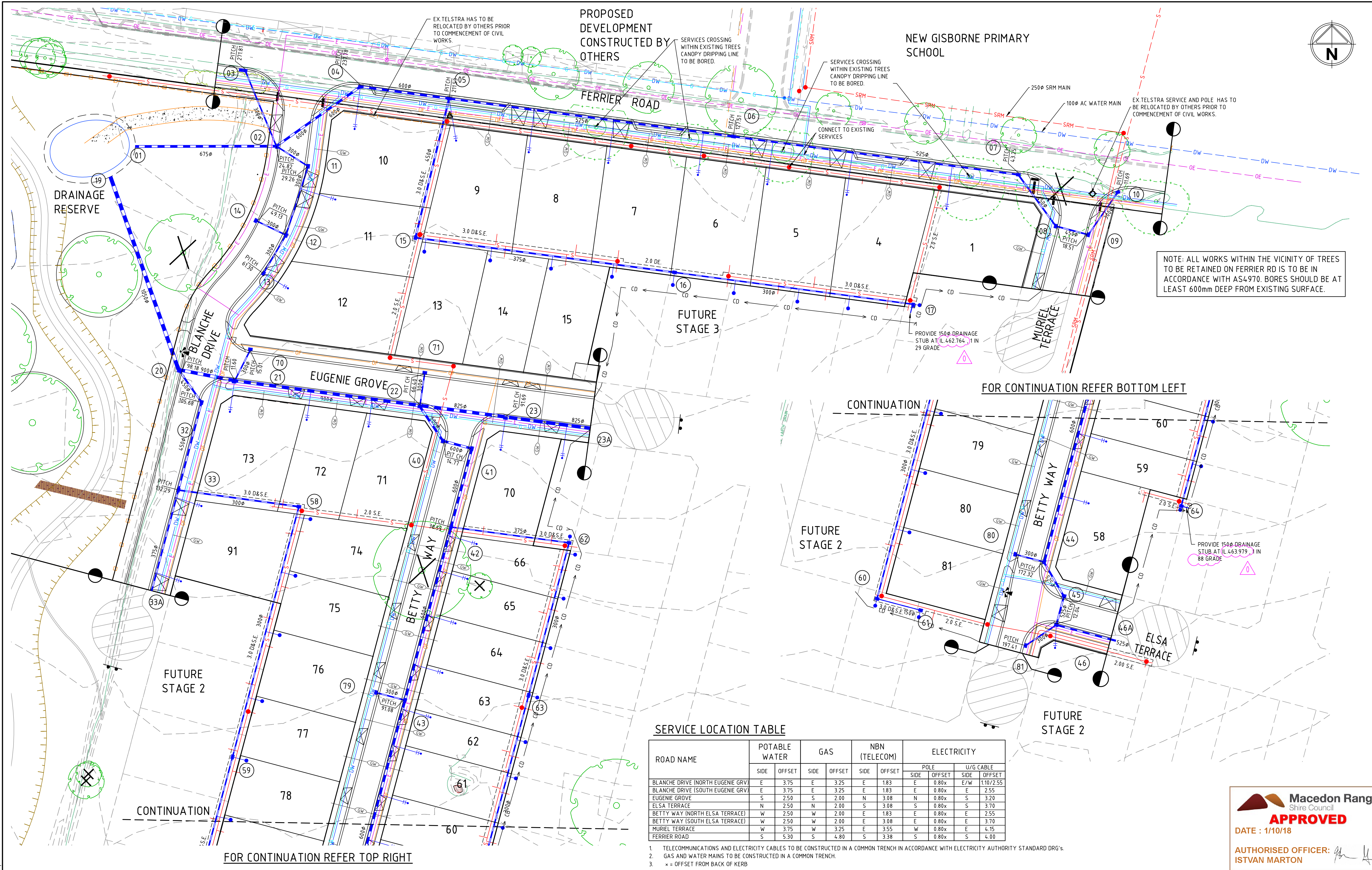


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APPROVED
DATE : 4/9/18
AUTHORISED OFFICER: ISTVAN MARTON
Macedon Ranges Shire Council

Macedon Ranges Shire Council
Designed: K. KUQO
Authorised: J. SPENCER
Checked: J. KOEHLER
Date: 27-06-2018

CATHLAW ON FERRIER STAGE 1 ROAD & DRAINAGE DETAIL PLAN
Macedon Ranges Shire Council
COLANZ
CONSTRUCTION
Drg No: 304849CR200
Rev: 0



SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE	U/G CABLE	SIDE	OFFSET
BLANCHE DRIVE (NORTH EUGENIE GRV)	E	3.75	E	3.25	E	1.83	E	0.80x	E/W	1.10/2.55
BLANCHE DRIVE (SOUTH EUGENIE GRV)	E	3.75	E	3.25	E	1.83	E	0.80x	E	2.55
EUGENIE GROVE	S	2.50	S	2.00	N	3.08	N	0.80x	S	3.20
ELSA TERRACE	N	2.50	N	2.00	S	3.08	S	0.80x	S	3.70
BETTY WAY (NORTH ELSA TERRACE)	W	2.50	W	2.00	E	1.83	E	0.80x	E	2.55
BETTY WAY (SOUTH ELSA TERRACE)	W	2.50	W	2.00	E	3.08	E	0.80x	E	3.70
MURIEL TERRACE	W	3.75	W	3.25	E	3.55	W	0.80x	E	4.15
FERRIER ROAD	S	5.30	S	4.80	S	3.38	S	0.80x	S	4.00

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- x = OFFSET FROM BACK OF KERB

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0	ISSUED FOR CONSTRUCTION, NOTES UPDATED	J.P.	31-08-18
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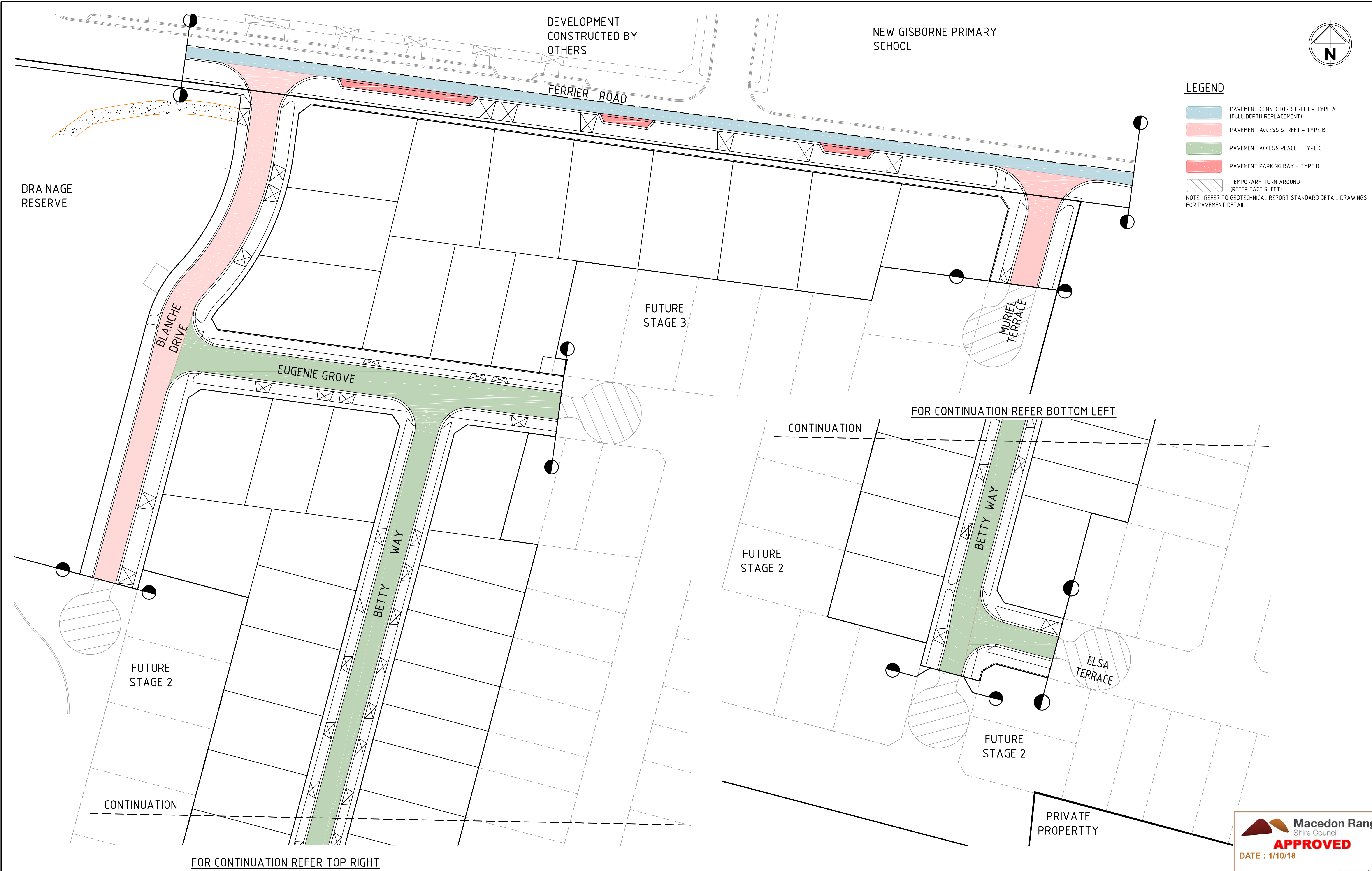
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CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
SERVICES PLAN
MACEDON RANGES SHIRE COUNCIL
COLANZ

CONSTRUCTION Drg No 304849CR201 Rev 0

Macedon Ranges Shire Council
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J. KOEHLER
Date
27-06-2018

CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
PAVEMENT PLAN
MACEDON RANGES SHIRE COUNCIL
COLANZ

CONSTRUCTION

Macedon Ranges
Shire Council
APPROVED
DATE : 1/10/18
AUTHORISED OFFICER:
JEREMY MARTON

Drg No
304849CR202

Rev
0

file name 304849CR202.dwg layout name CP202 plotted by Kieran Ayres
file location G:\304849\304849.dwg\ALCAD plot date 04/09/2018 10:23 AM Sheet of Sheets

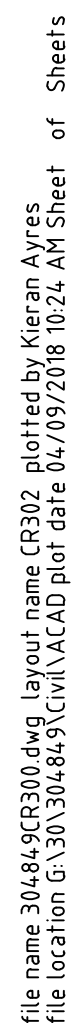


spiire

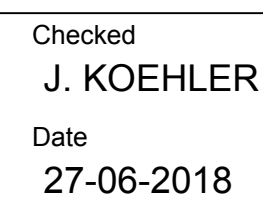
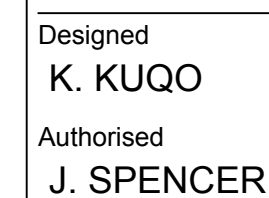
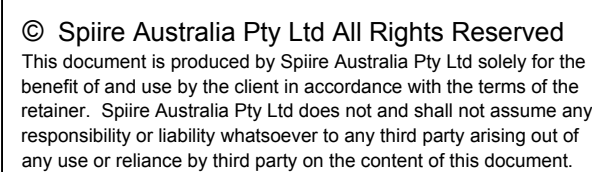


Checked
J. KOEHLER
Date
27-06-2018

CONSTRUCTION Drg No 304849CR301



H 1:500
SCALE @ A1
V 1:50



CATHLAW ON FERRIER

STAGE 1

ROAD & DRAINAGE

ROAD LONGITUDINAL SECTIONS (SHEET 3 OF 3)

MACEDON RANGES SHIRE COUNCIL

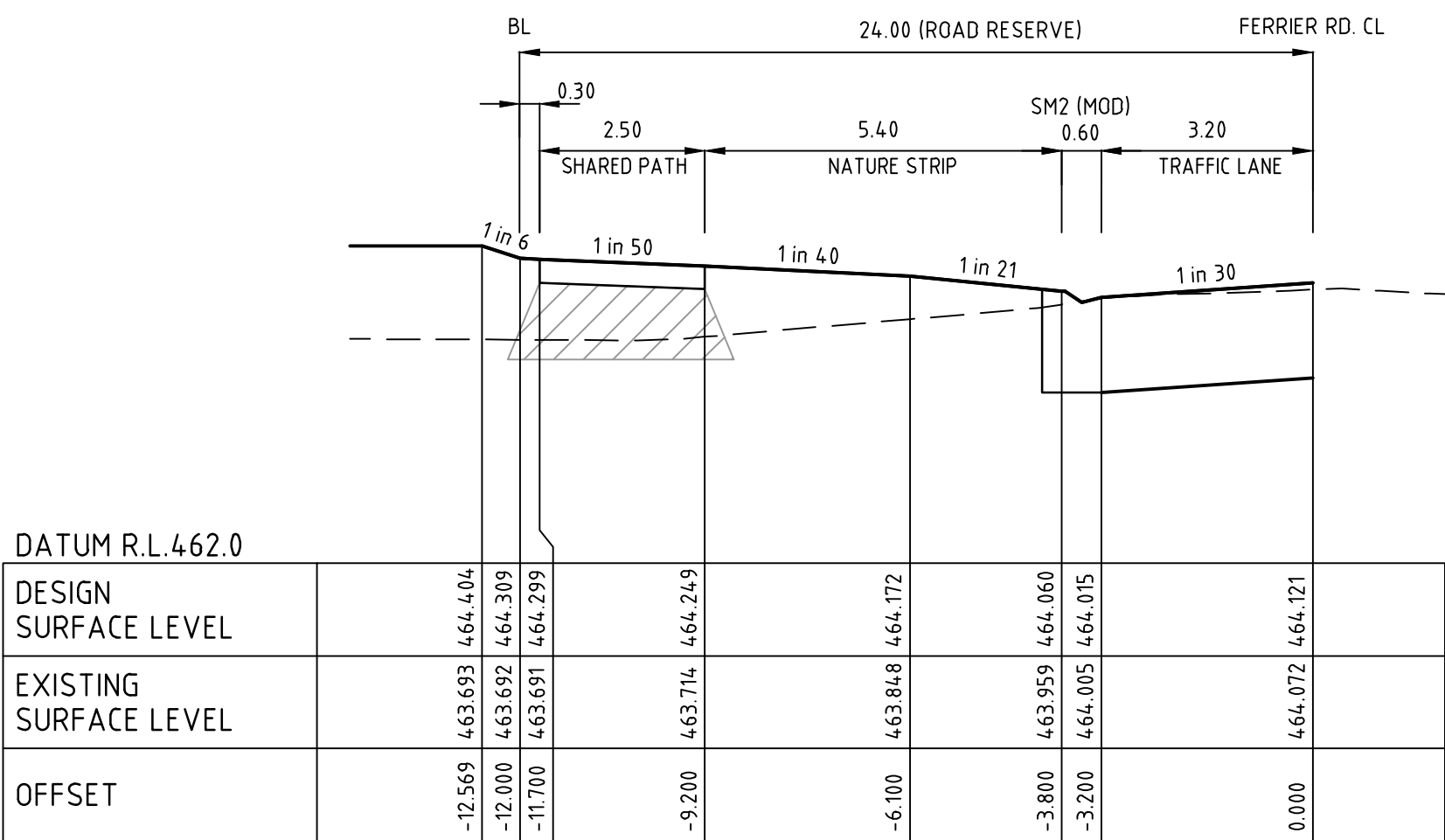
COLANZ

CONSTRUCTION

Drg No

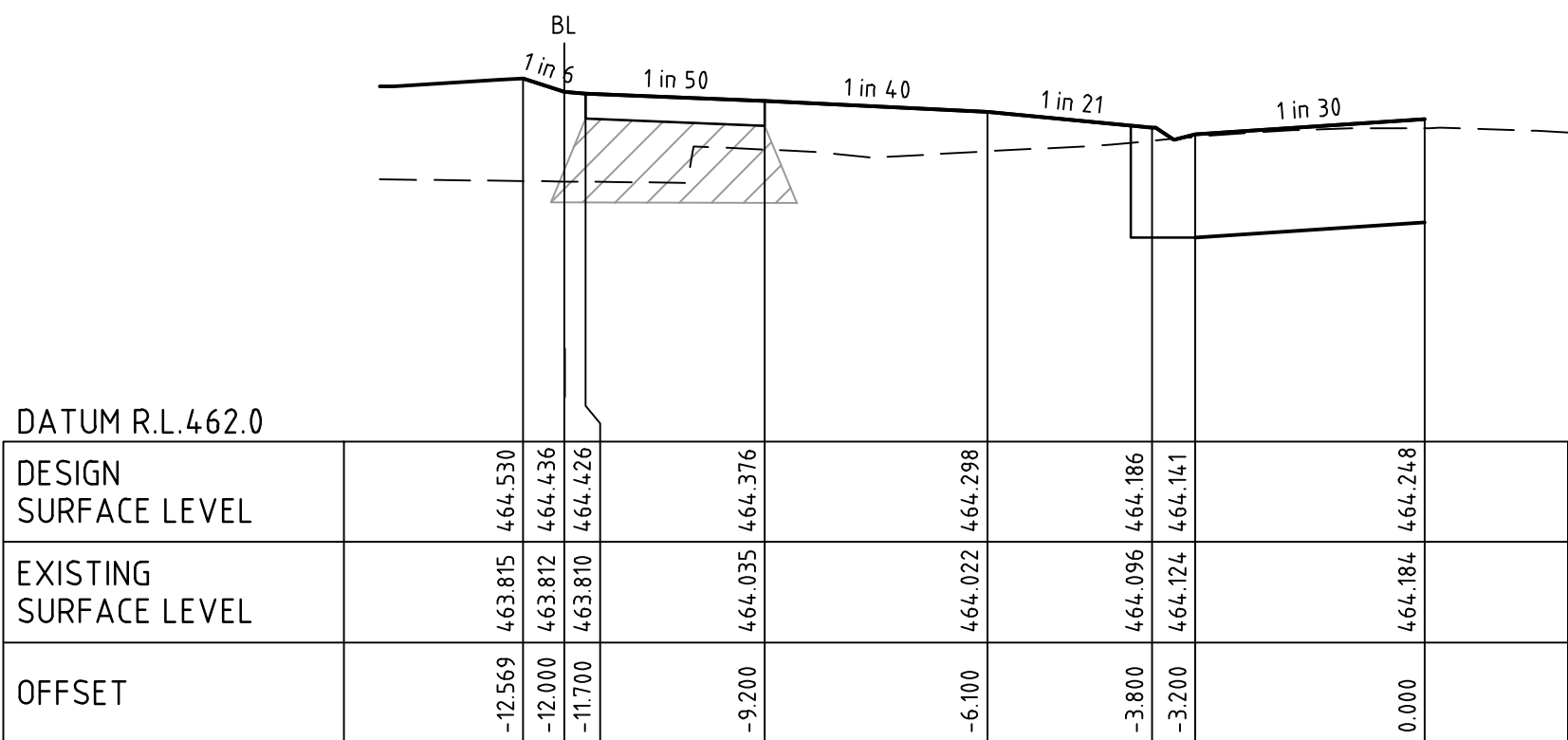
304849CR302

file name 304849CR400.dwg, layout name CR400, plotted by Harrison Spurling
file location G:\304849\304849.dwg, VBA CAD plot date 04/09/2018 11:12 AM, Sheet 1 of 5



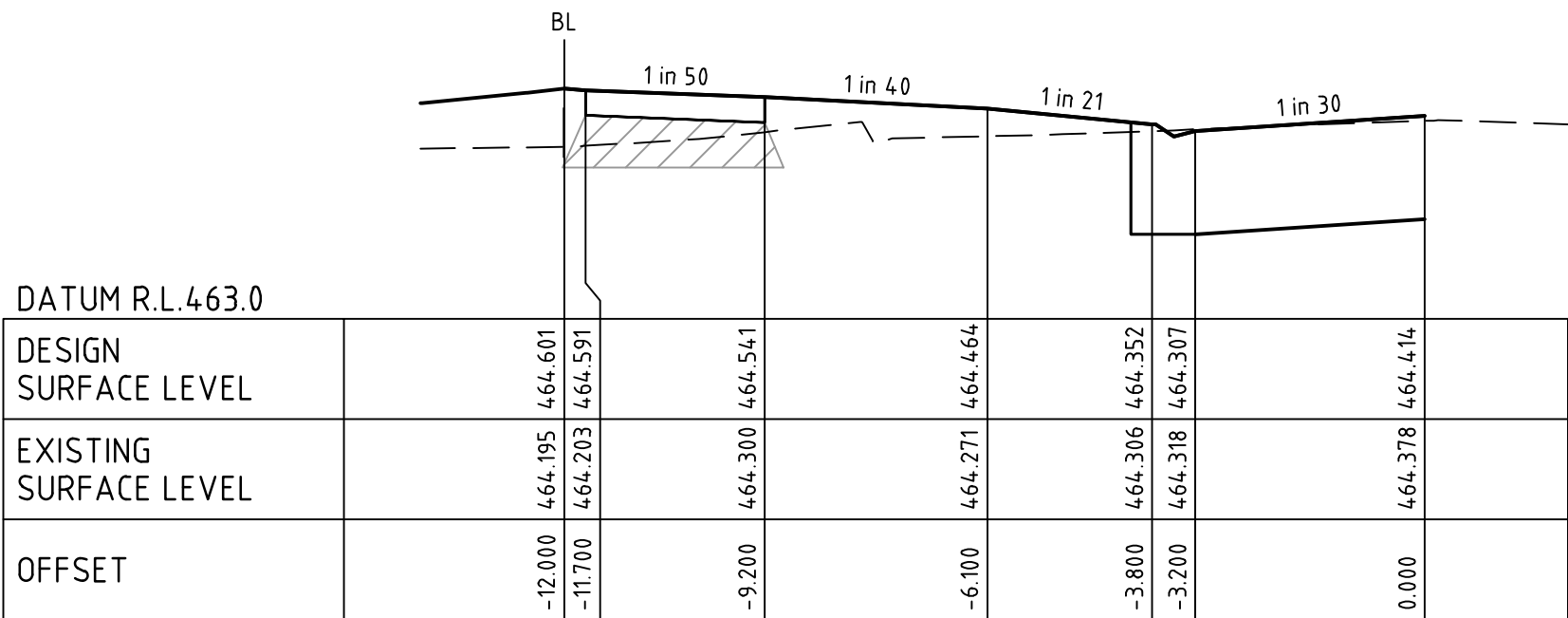
FERRIER ROAD

CH 67.03



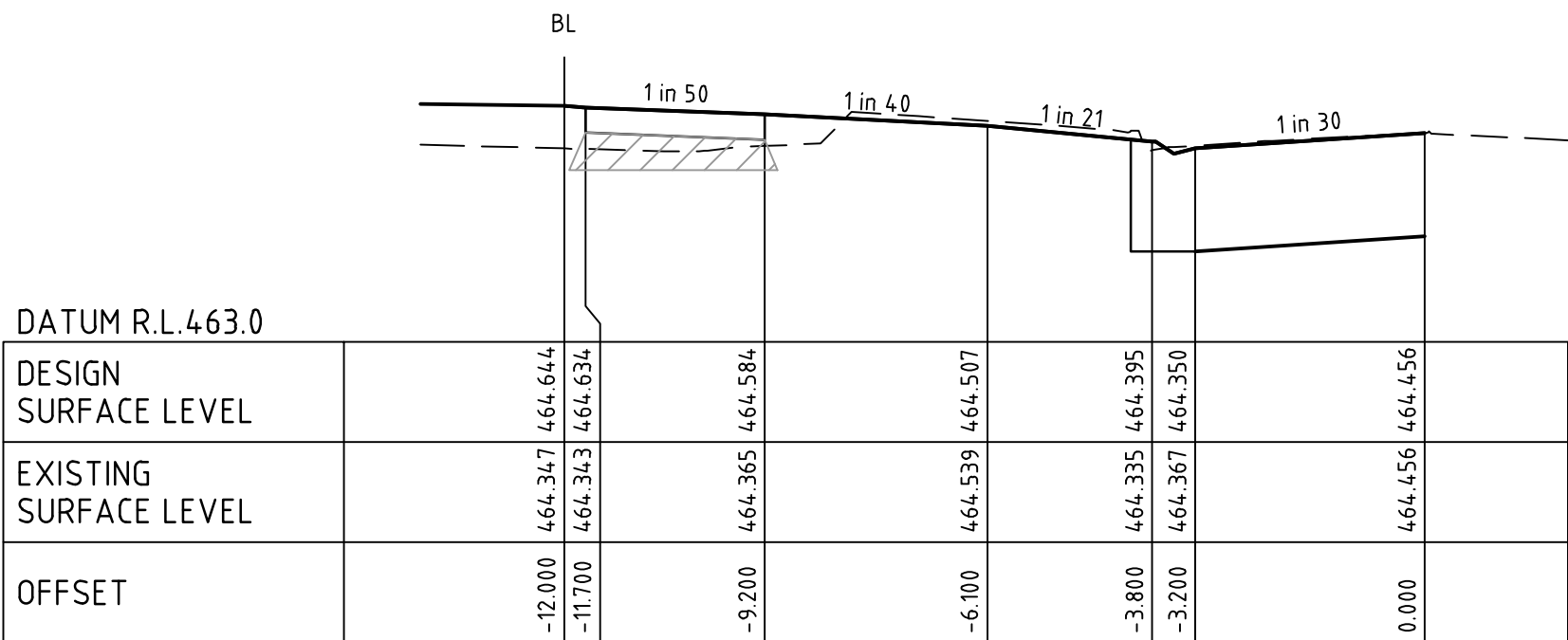
FERRIER ROAD

CH 41.70



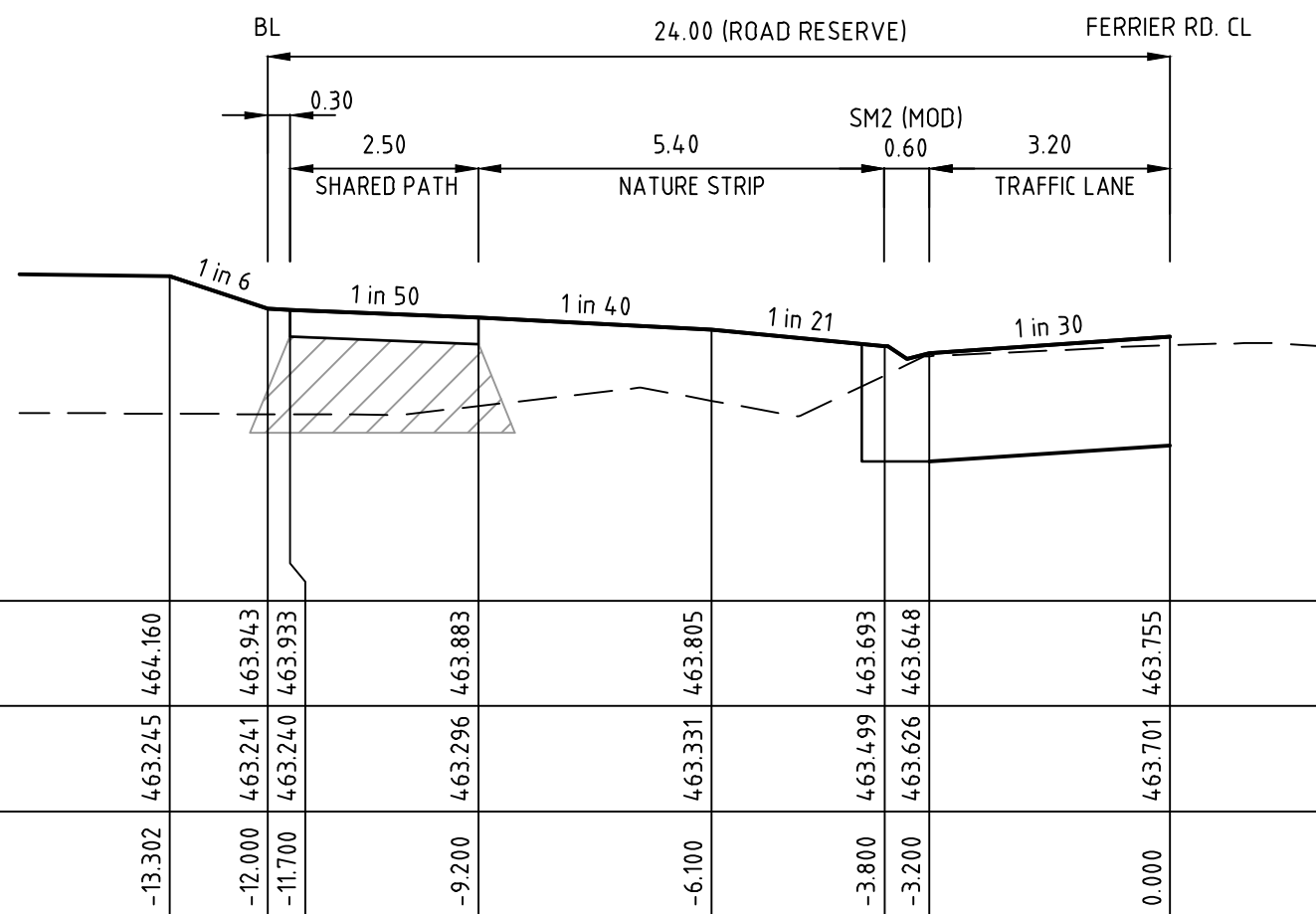
FERRIER ROAD

CH 8.53



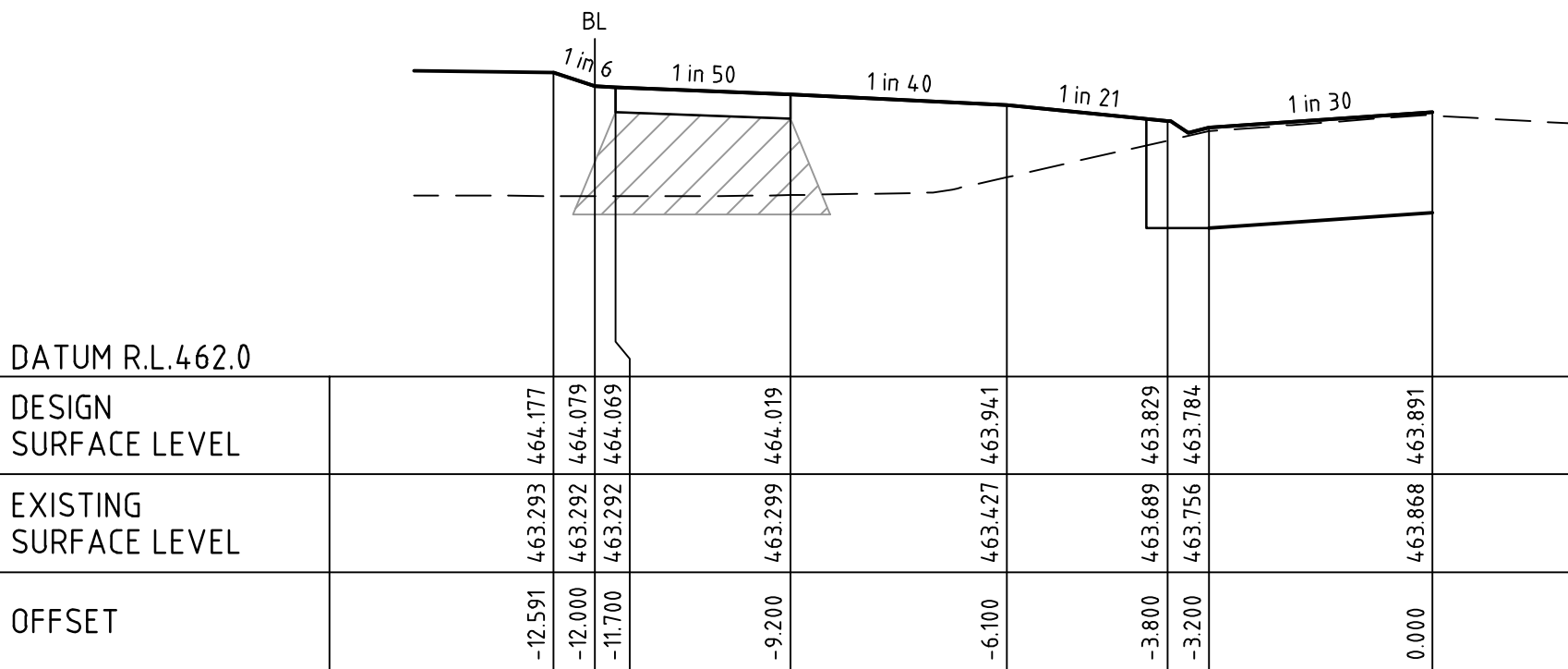
FERRIER ROAD

CH 0.00 (MATCH TO EXISTING SURFACE)



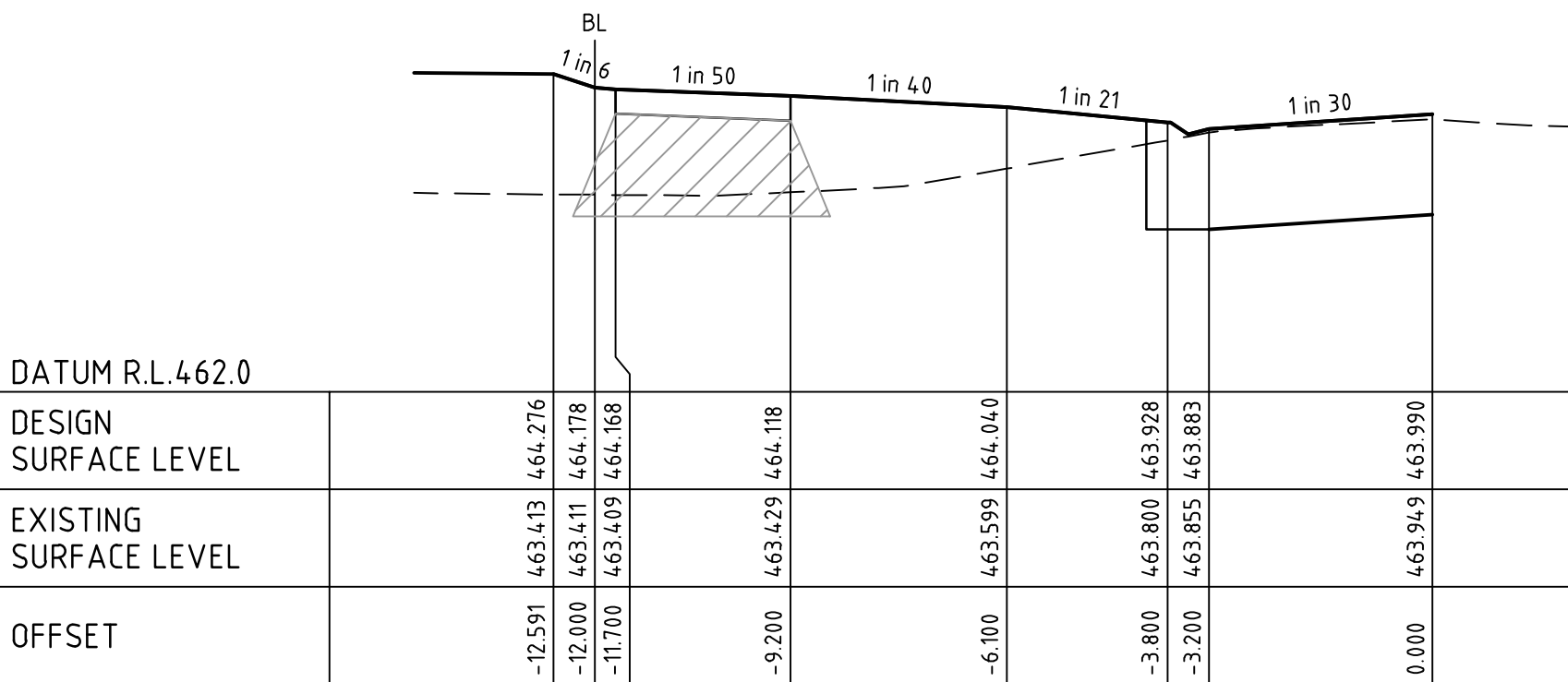
FERRIER ROAD

CH 140.32



FERRIER ROAD

CH 113.10



FERRIER ROAD

CH 93.33

FILLING UNDER PAVEMENT
IN ACCORDANCE WITH
COUNCIL REQUIREMENTS



0	ISSUED FOR CONSTRUCTION	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18
Rev	Amendments	Approved	Date

H 1:100
SCALE @ A1
V 1:50



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K. KUQO
Authorised
J. SPENCER

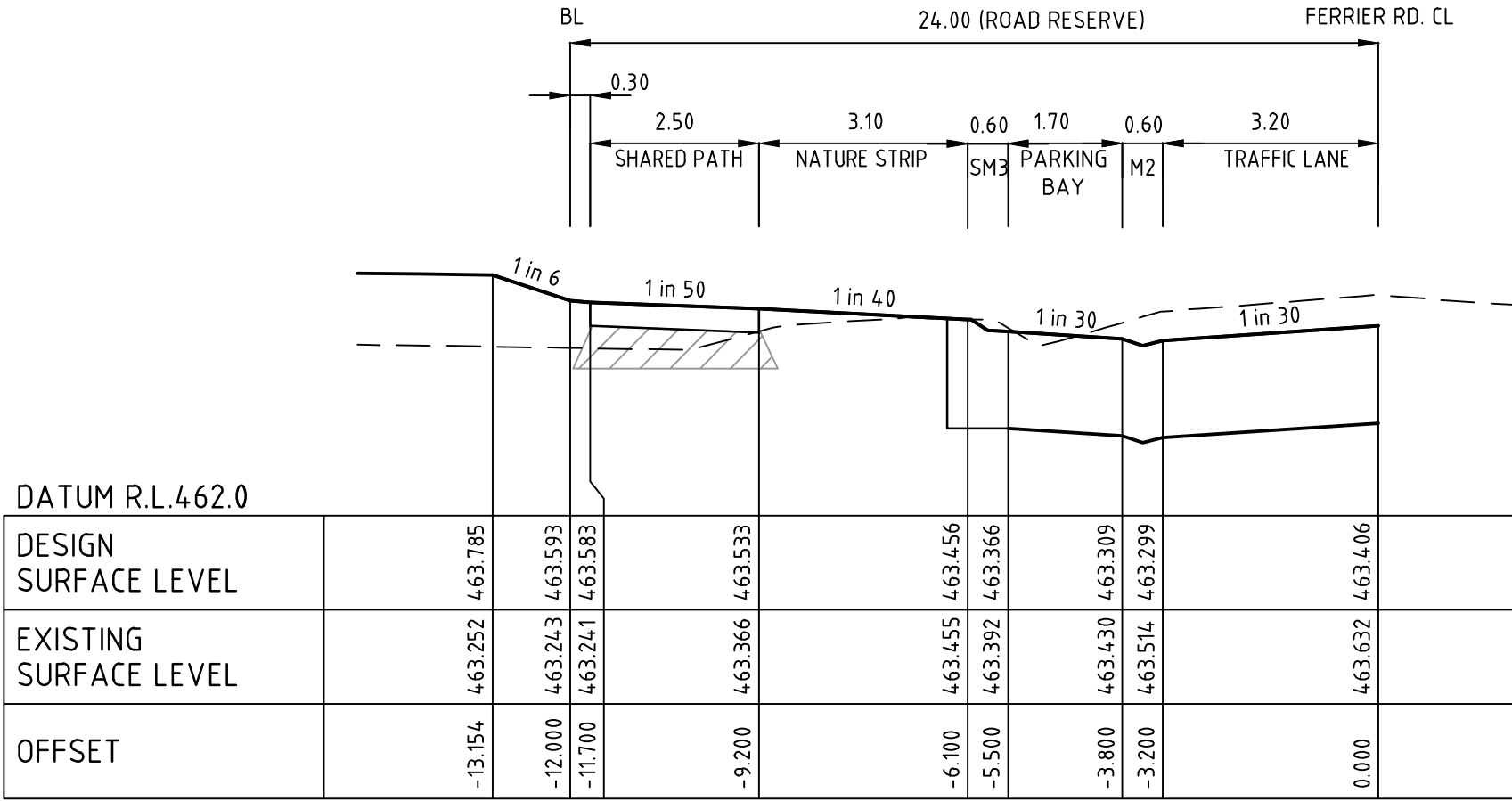


Checked
J. KOEHLER
Date
27-06-2018

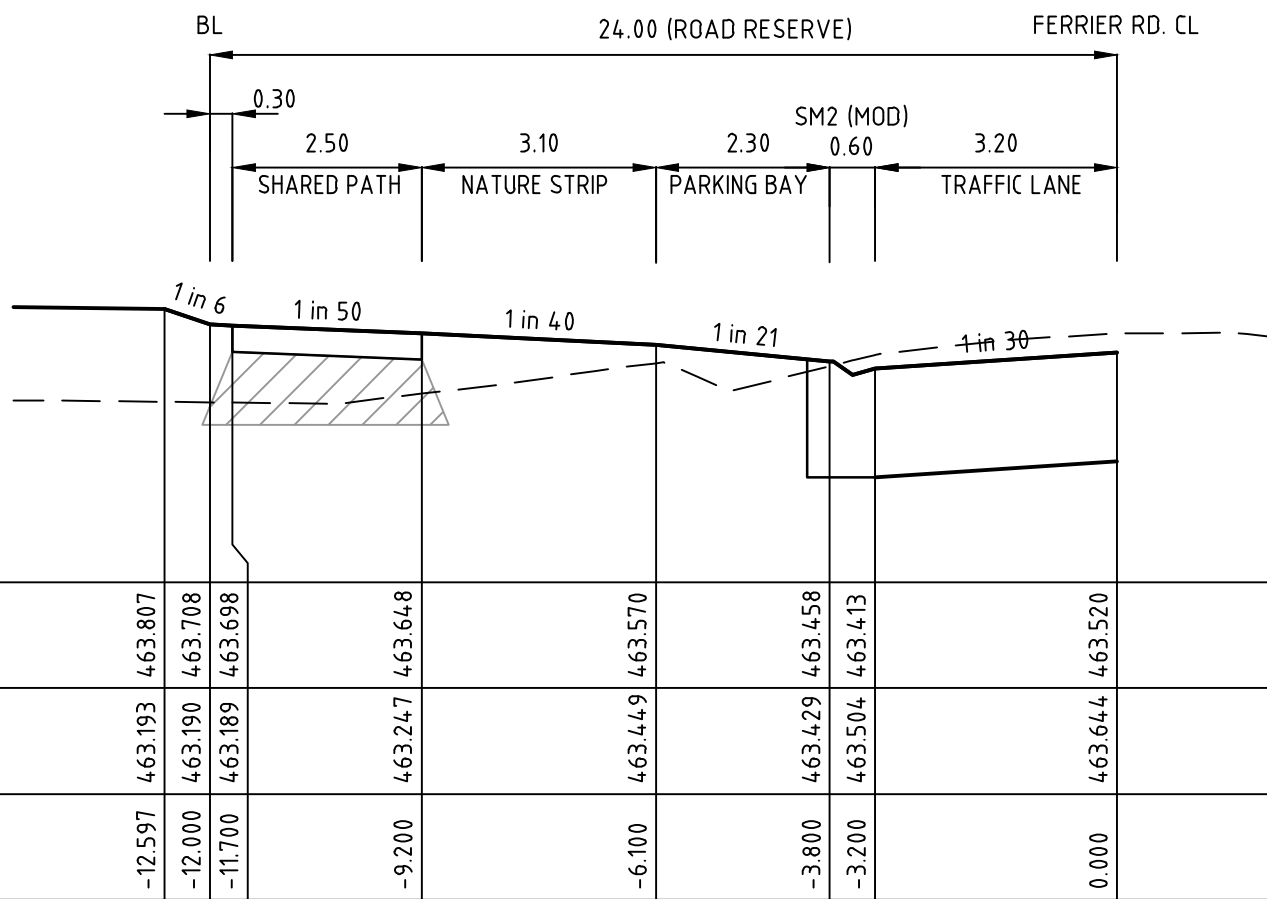
CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
ROAD CROSS SECTIONS SHEET 1 OF 5
MACEDON RANGES SHIRE COUNCIL
COLANZ

CONSTRUCTION Drg No 304849CR400 Rev 0

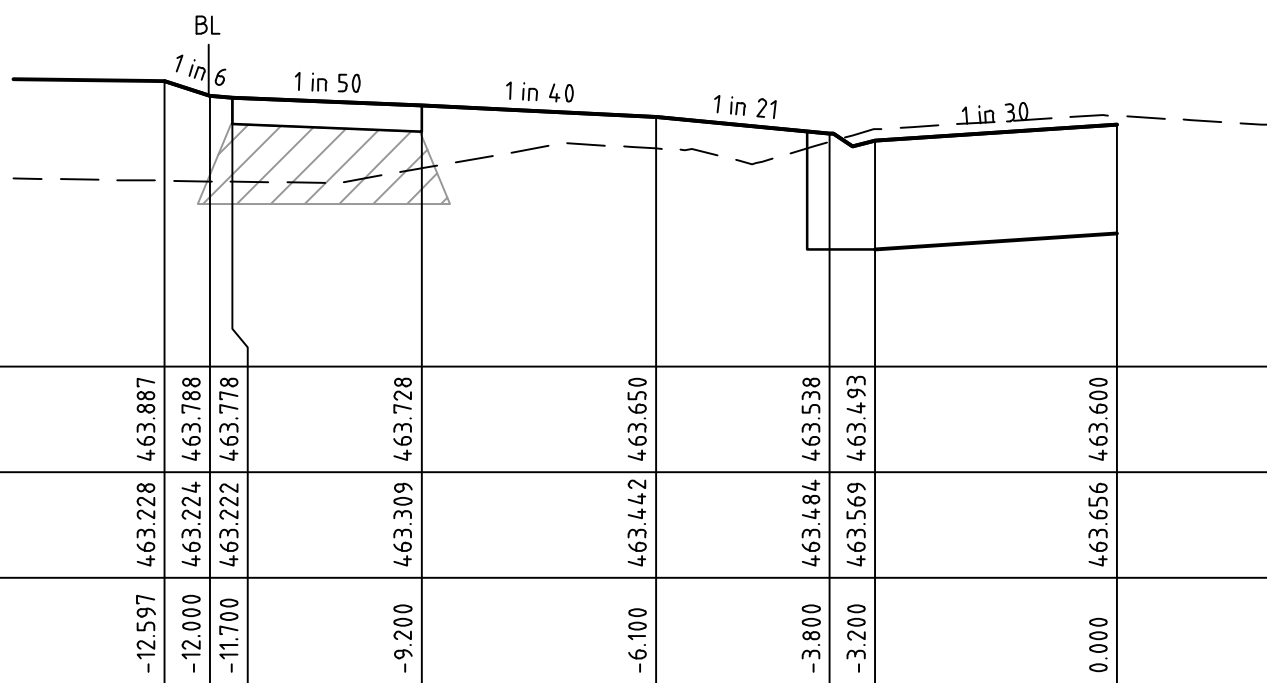
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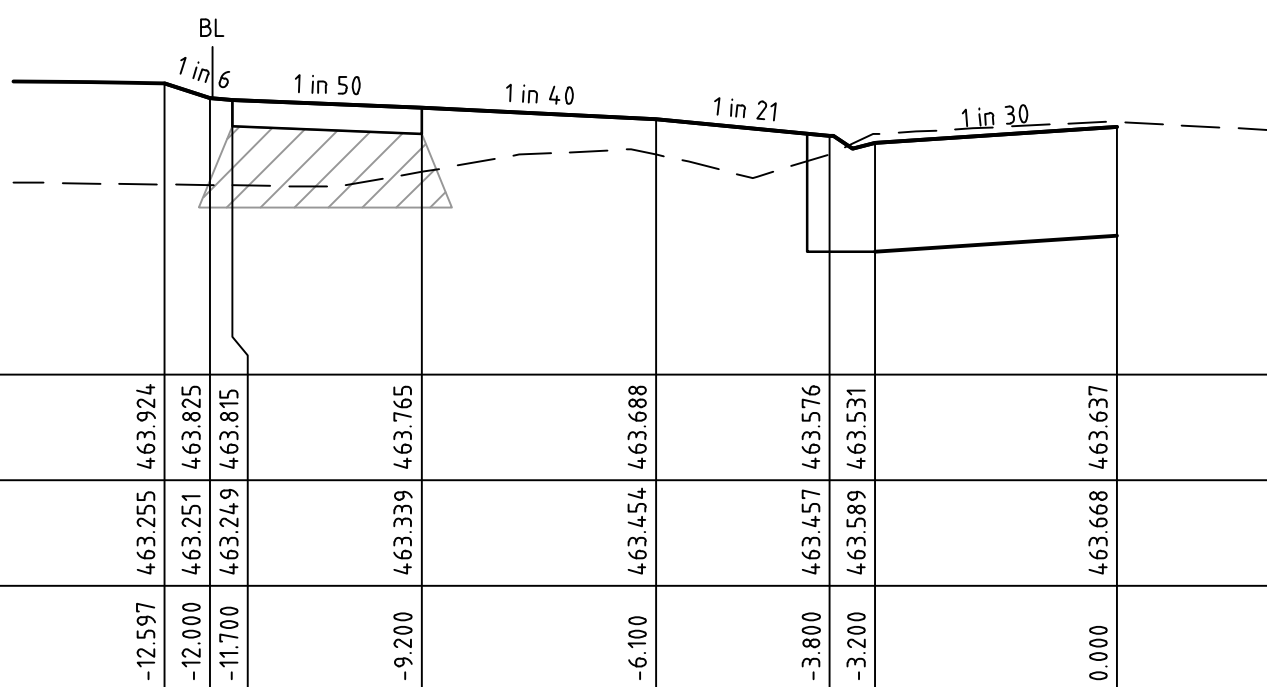
FERRIER ROAD CH 210.13



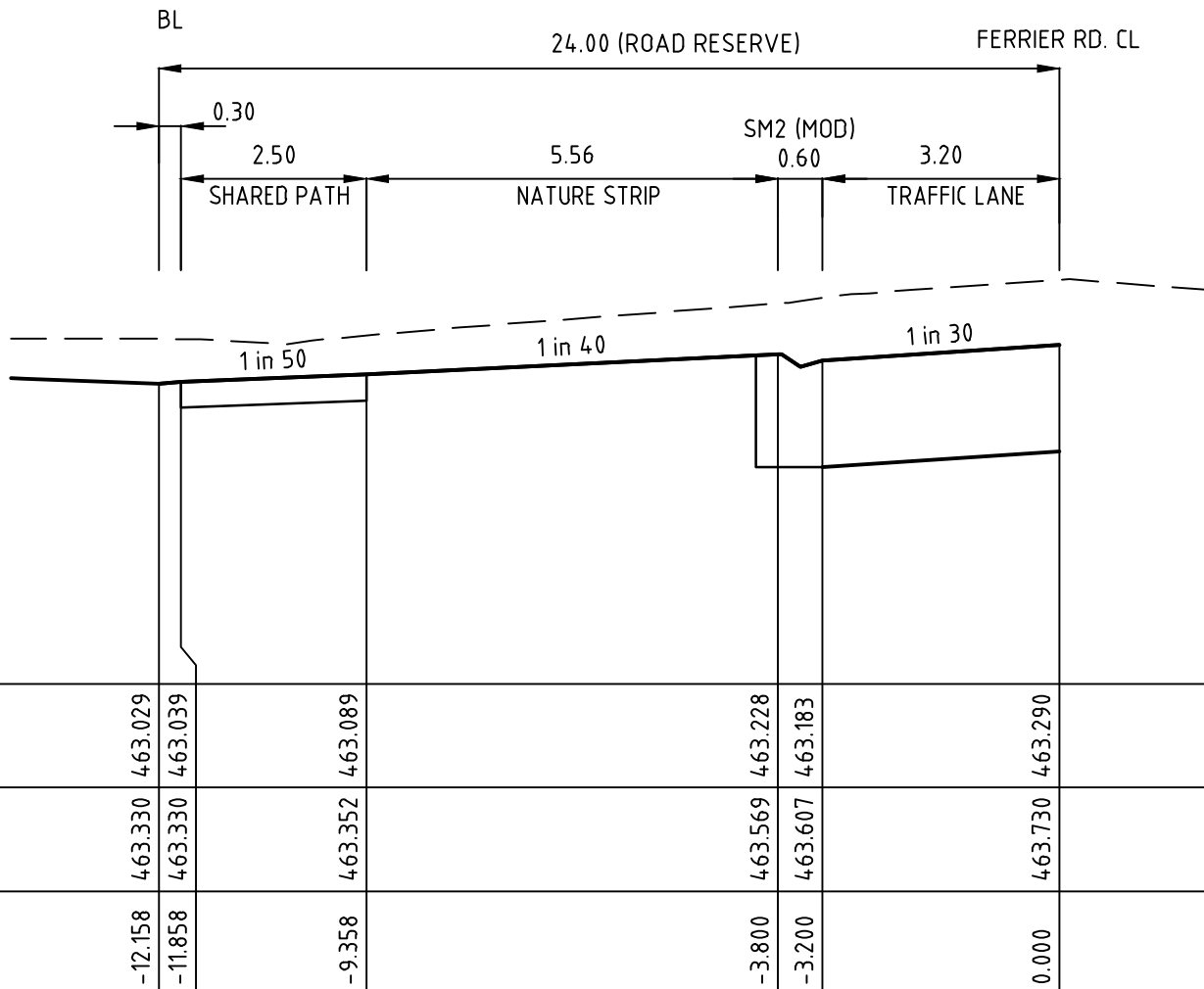
FERRIER ROAD CH 187.32



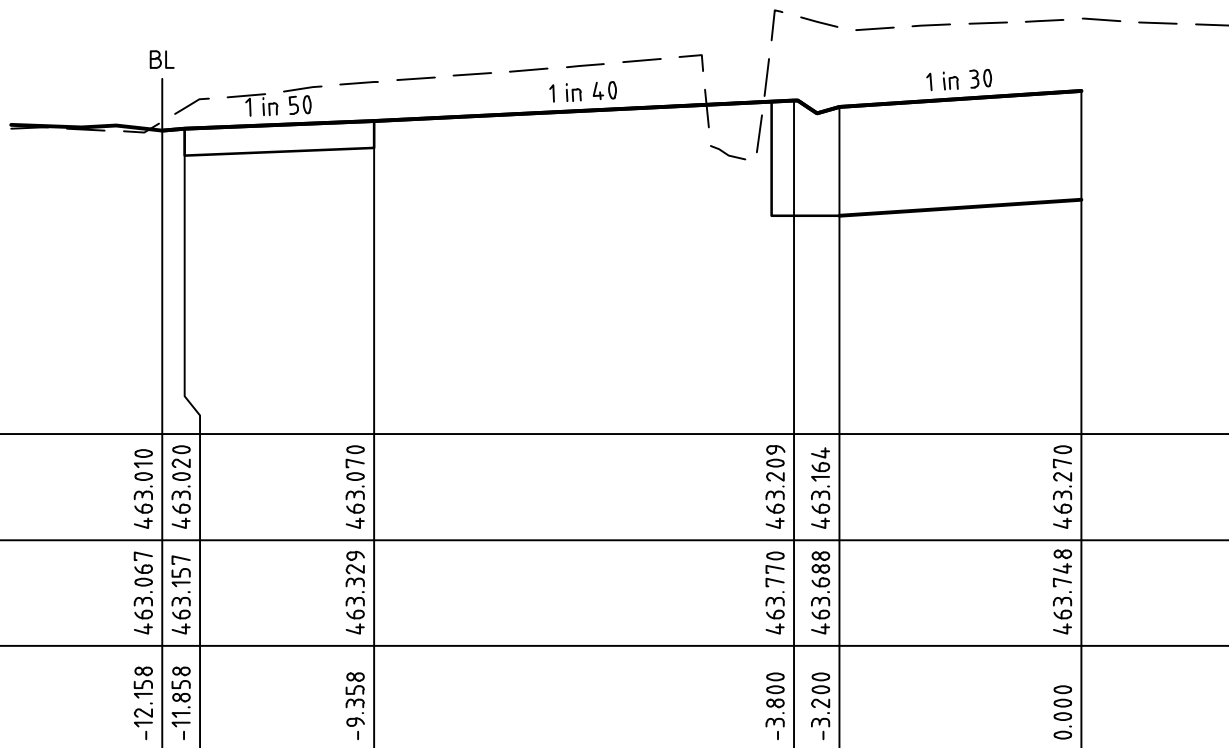
FERRIER ROAD CH 171.28



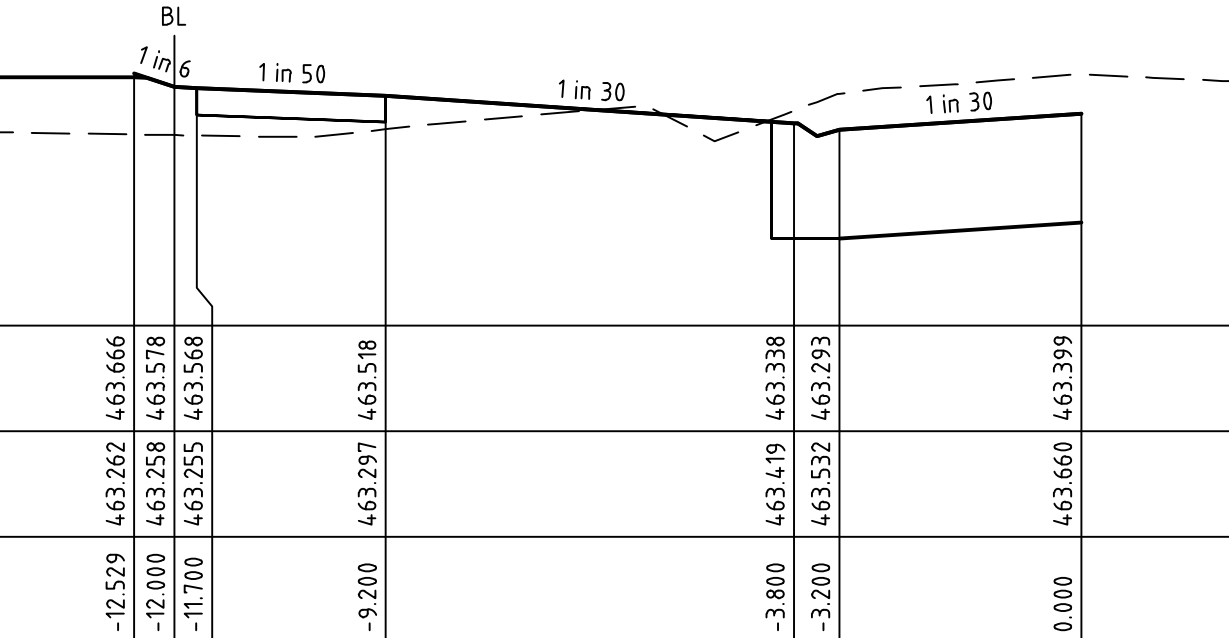
FERRIER ROAD CH 163.82



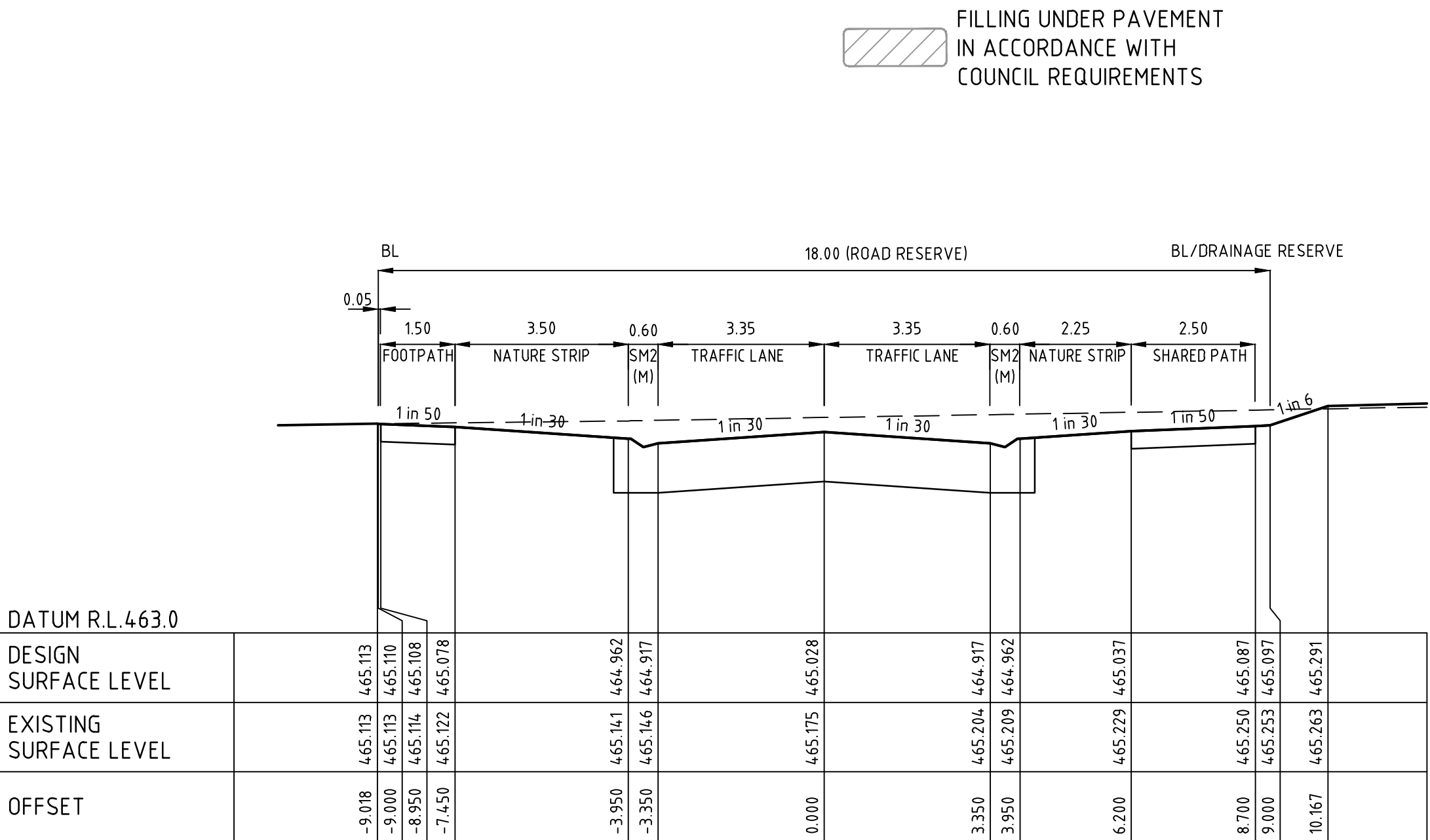
FERRIER ROAD CH 280.00



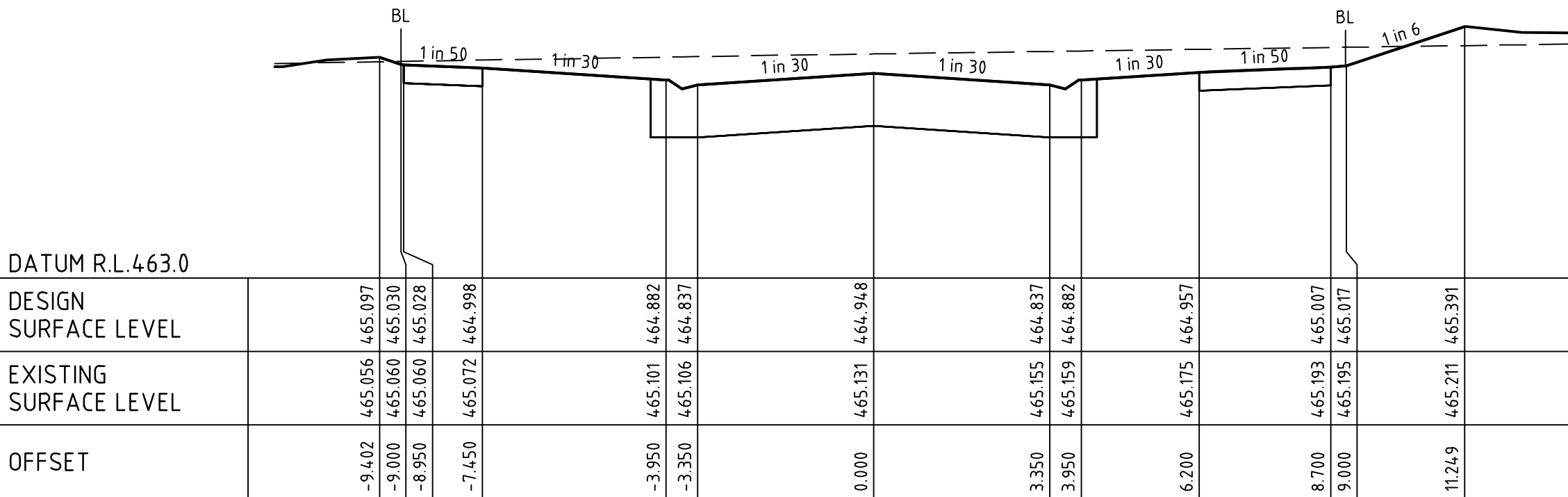
FERRIER ROAD CH 271.27



FERRIER ROAD CH 238.38



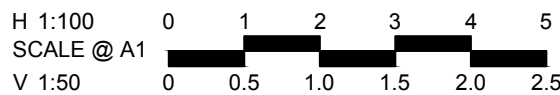
ELSA TERRACE CH 28.49



ELSA TERRACE CH 12.44



0	ISSUED FOR CONSTRUCTION	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18
Rev	Amendments	Approved	Date



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J. SPENCER



Checked
J. KOEHLER
Date
27-06-2018

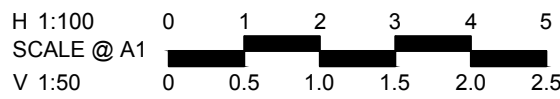
CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
ROAD CROSS SECTIONS SHEET 2 OF 5
MACEDON RANGES SHIRE COUNCIL
COLANZ

CONSTRUCTION Drg No 304849CR401 Rev 0

file name: 304849CR402.dwg, layout name: CR402, plotted by: Harrison Gunning, file location: G:\304849\304849.dwg, ALAD plot date: 04/09/2018 11:12 AM, Sheet 3 of 5



0	ISSUED FOR CONSTRUCTION	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18
Rev	Amendments	Approved	Date



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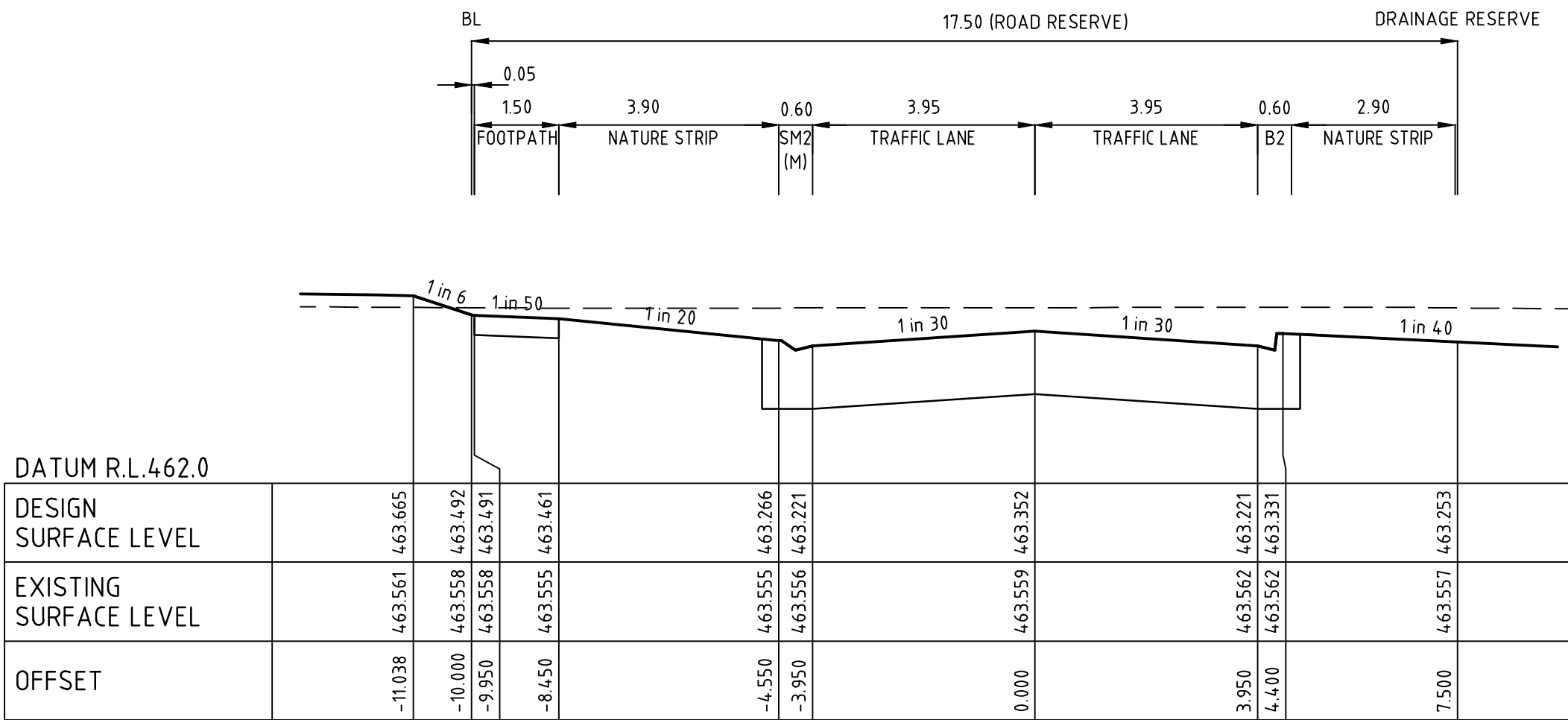
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Macedon Ranges
Shire Council
Designed
K. KUQO
Authorised
J. SPENCER

CATHLAW
Shire Council
Checked
J. KOEHLER
Date
27-06-2018

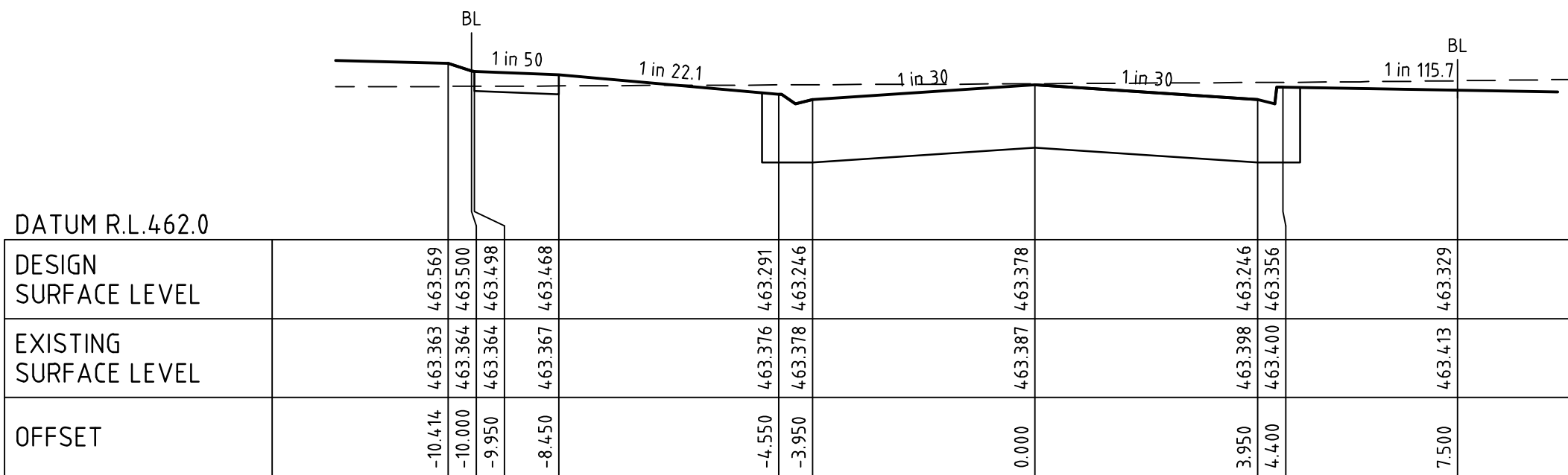
**CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
ROAD CROSS SECTIONS SHEET 3 OF 5
MACEDON RANGES SHIRE COUNCIL
COLANZ**

CONSTRUCTION Drg No **304849CR402** Rev **0**



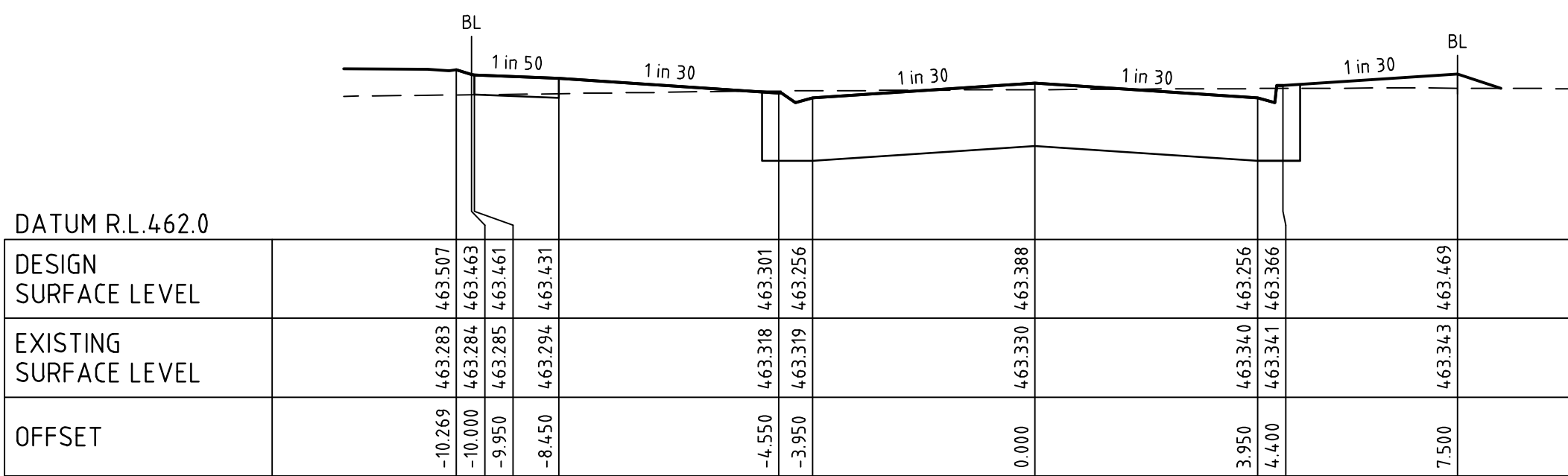
BLANCHE DRIVE

CH 54.54



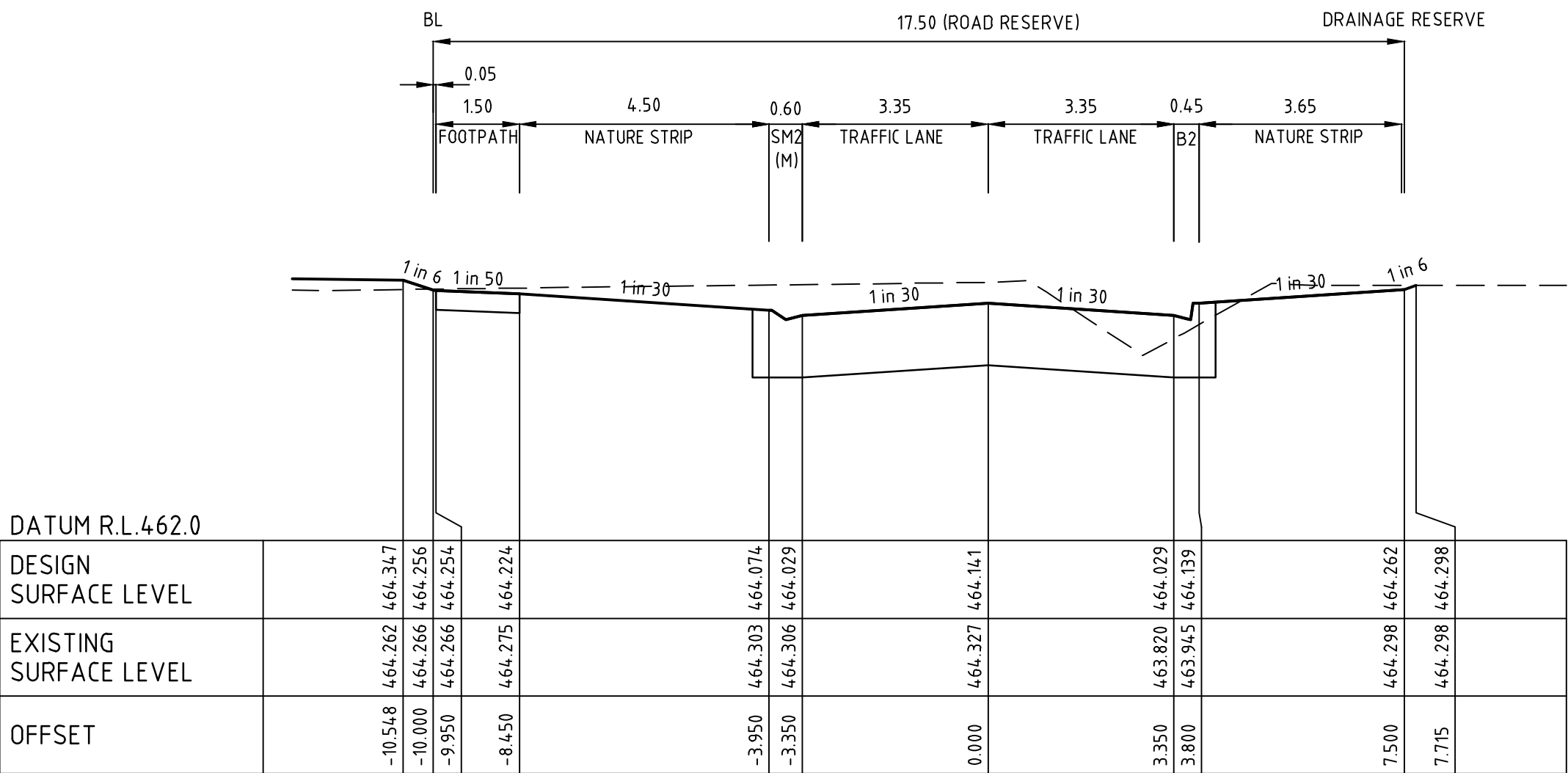
BLANCHE DRIVE

CH 35.62



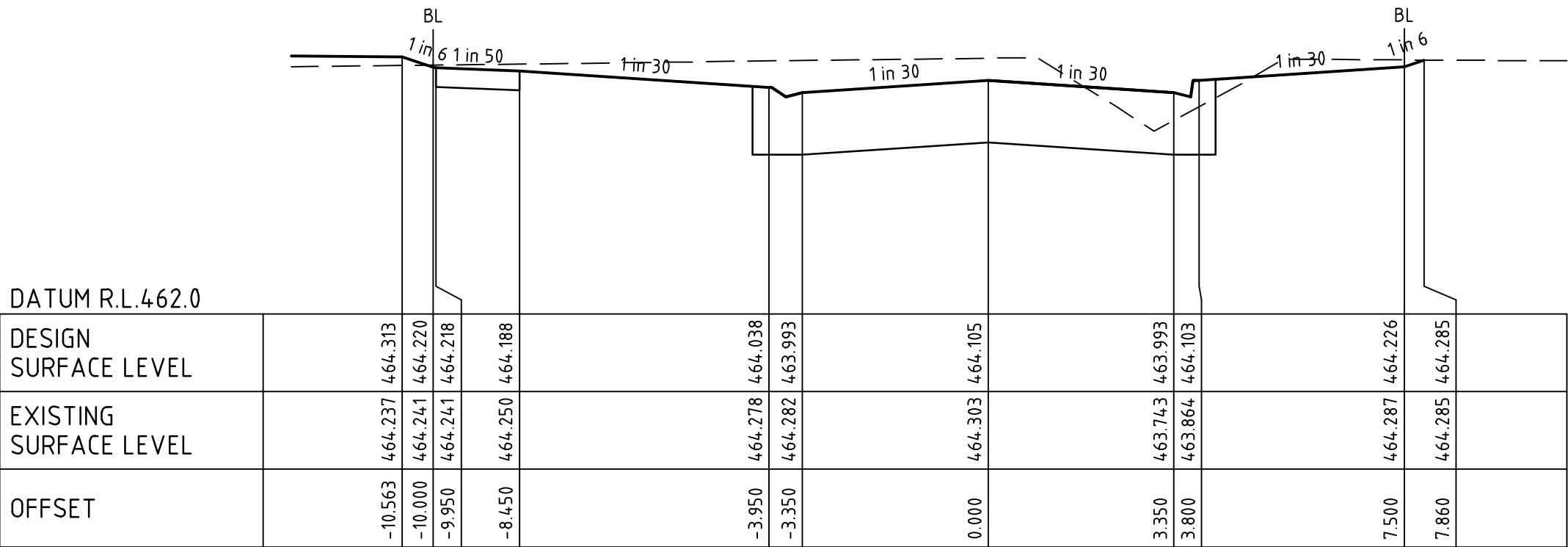
BLANCHE DRIVE

CH 15.70



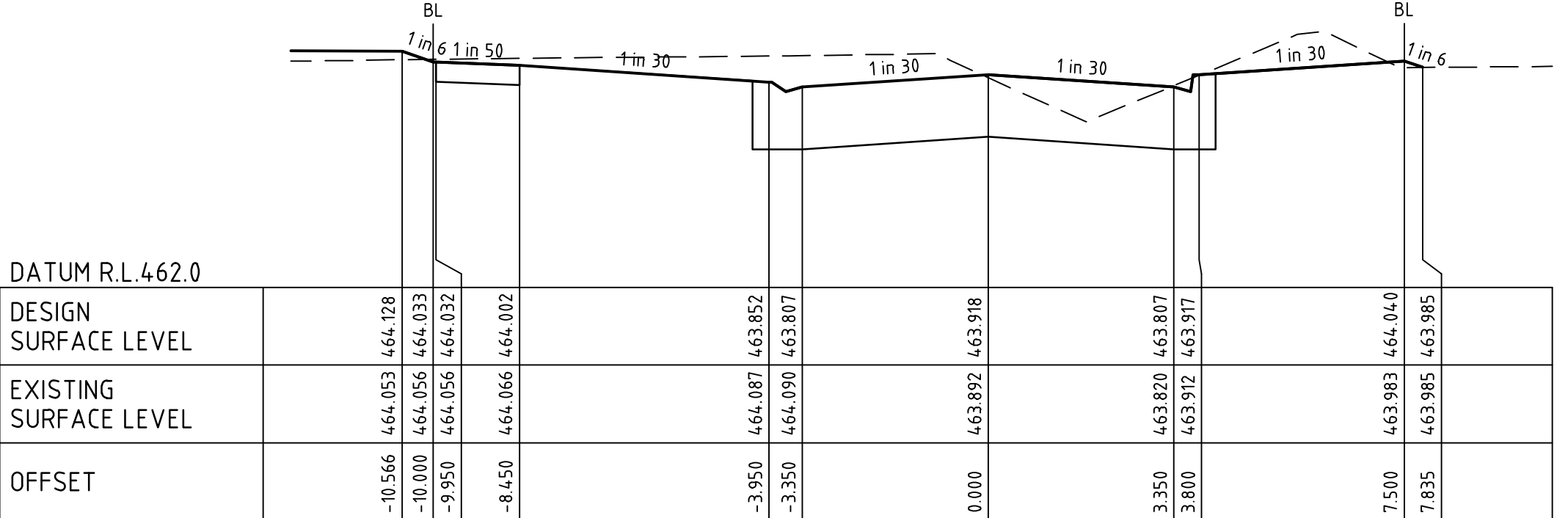
BLANCHE DRIVE

CH 162.81



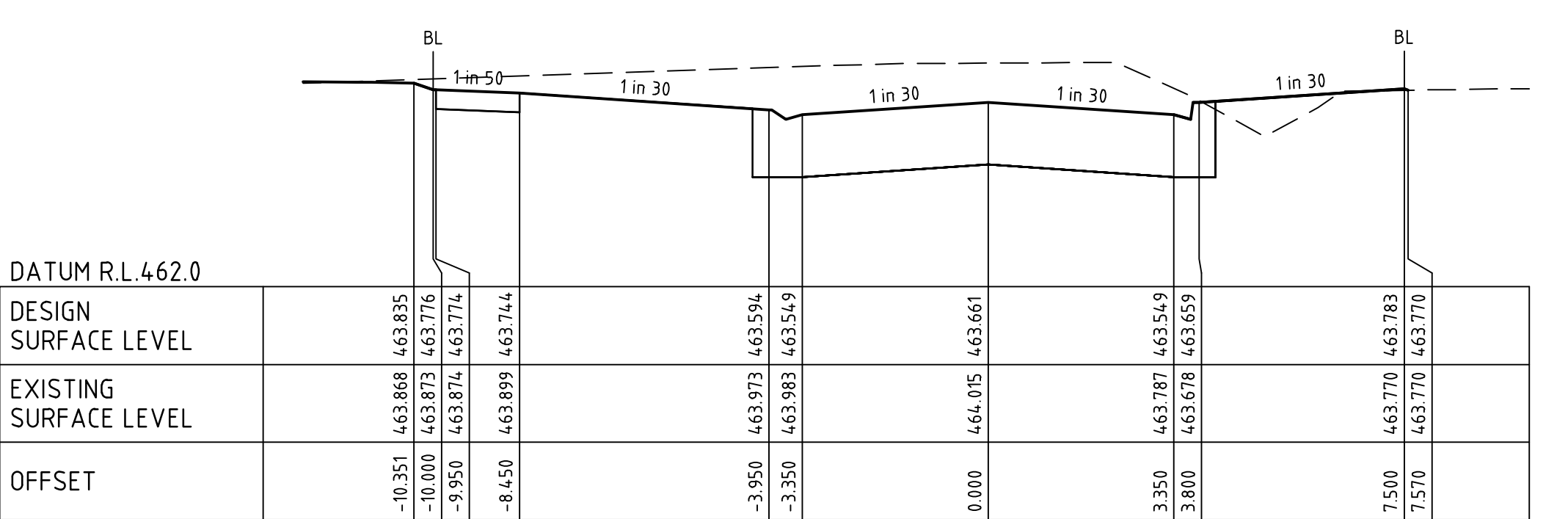
BLANCHE DRIVE

CH 156.81



BLANCHE DRIVE

CH 133.94



BLANCHE DRIVE

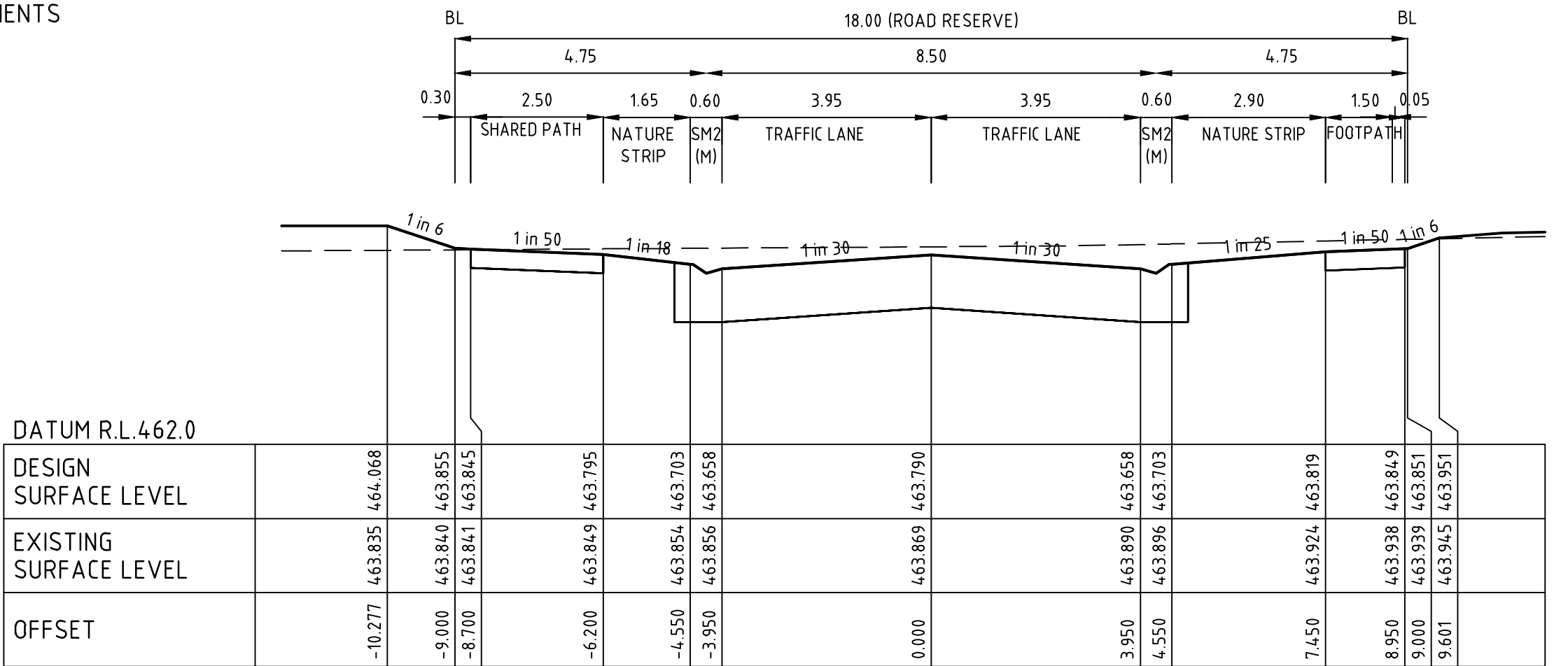
CH 105.01

FILLING UNDER PAVEMENT
IN ACCORDANCE WITH
COUNCIL REQUIREMENTS

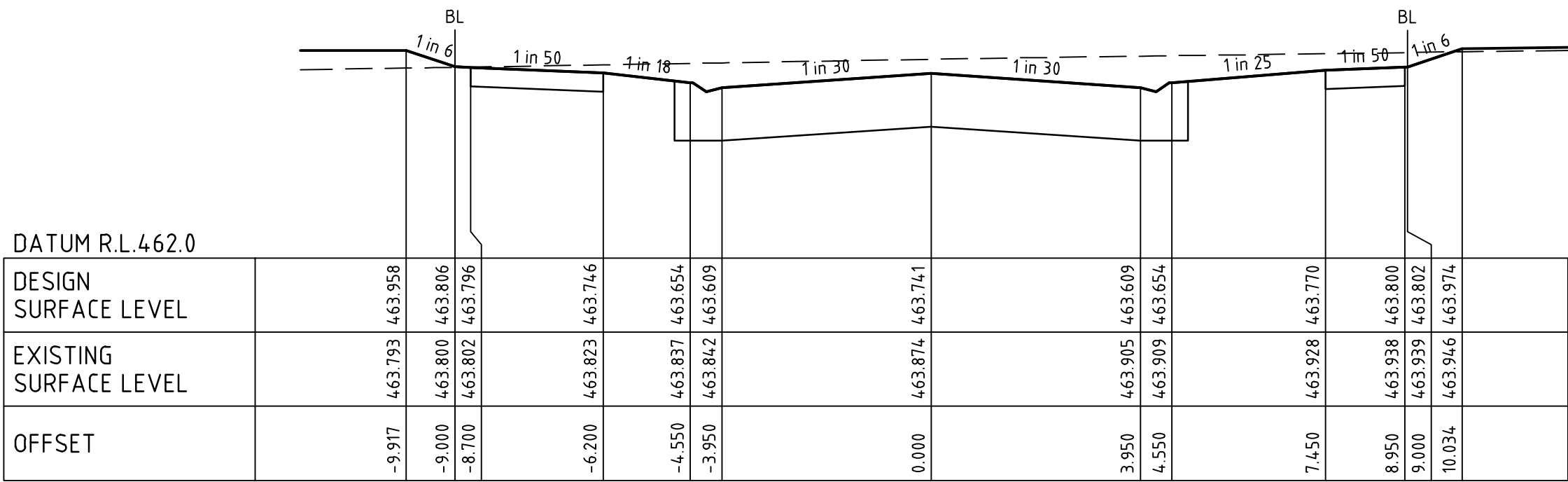
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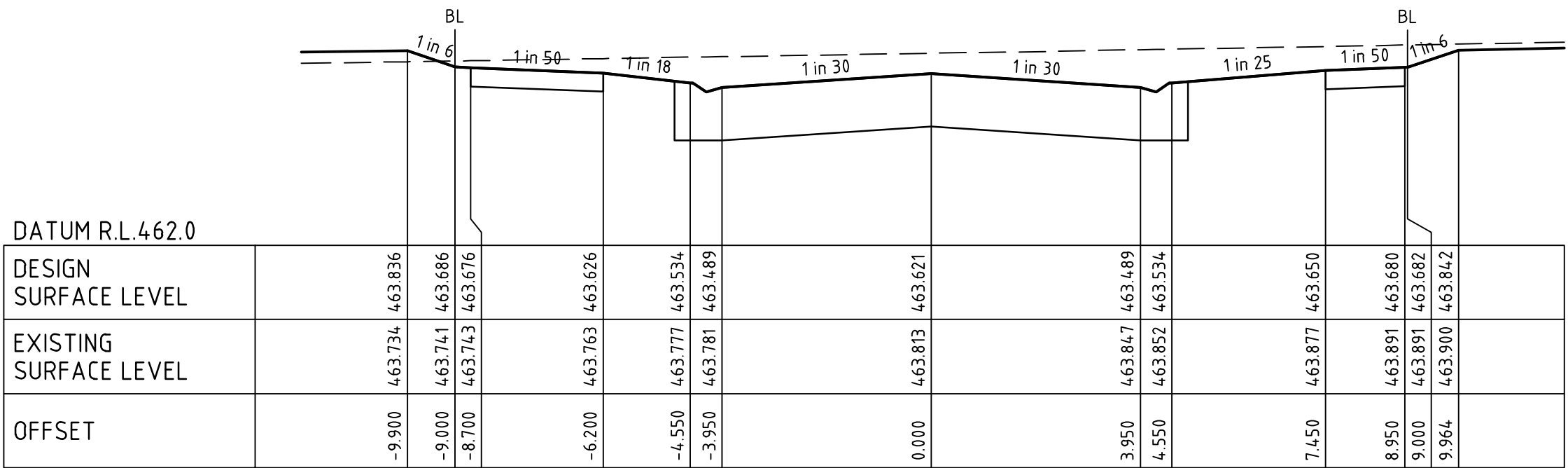
FILLING UNDER PAVEMENT
IN ACCORDANCE WITH
COUNCIL REQUIREMENTS



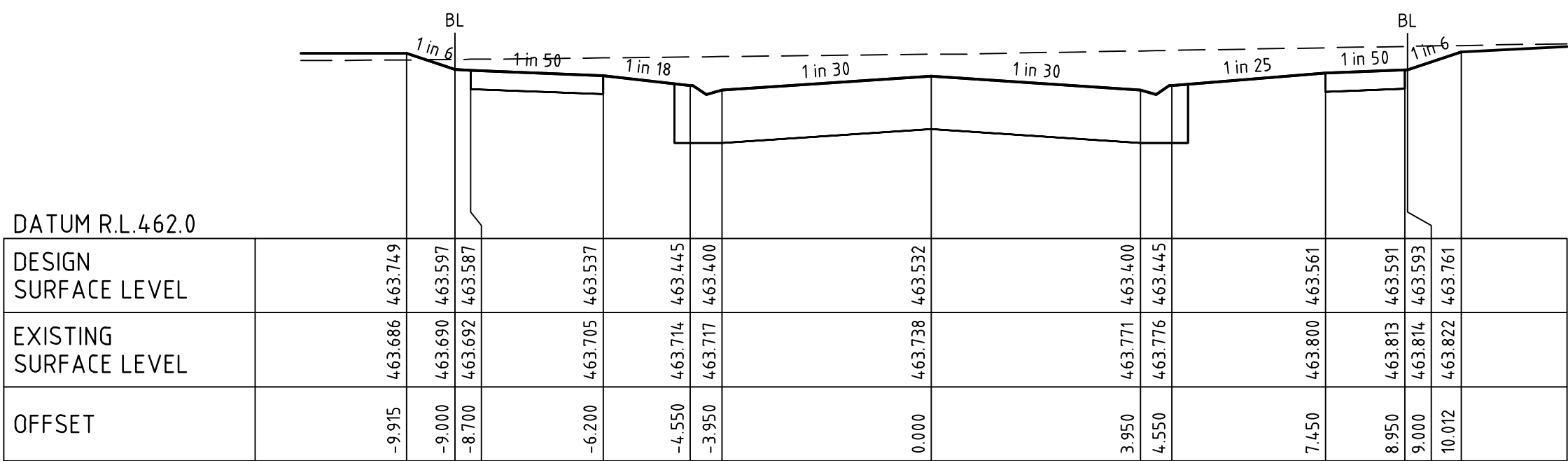
EUGENIE TERRACE CH 67.00



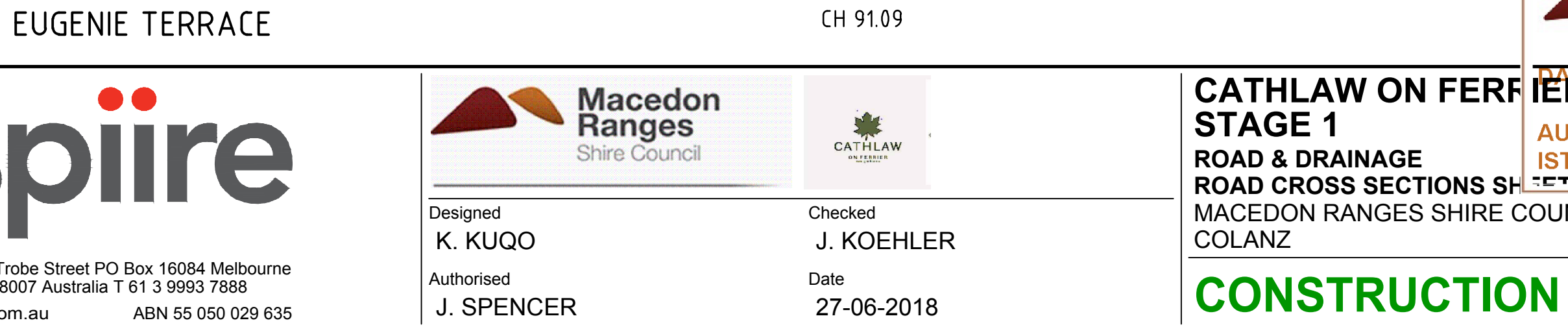
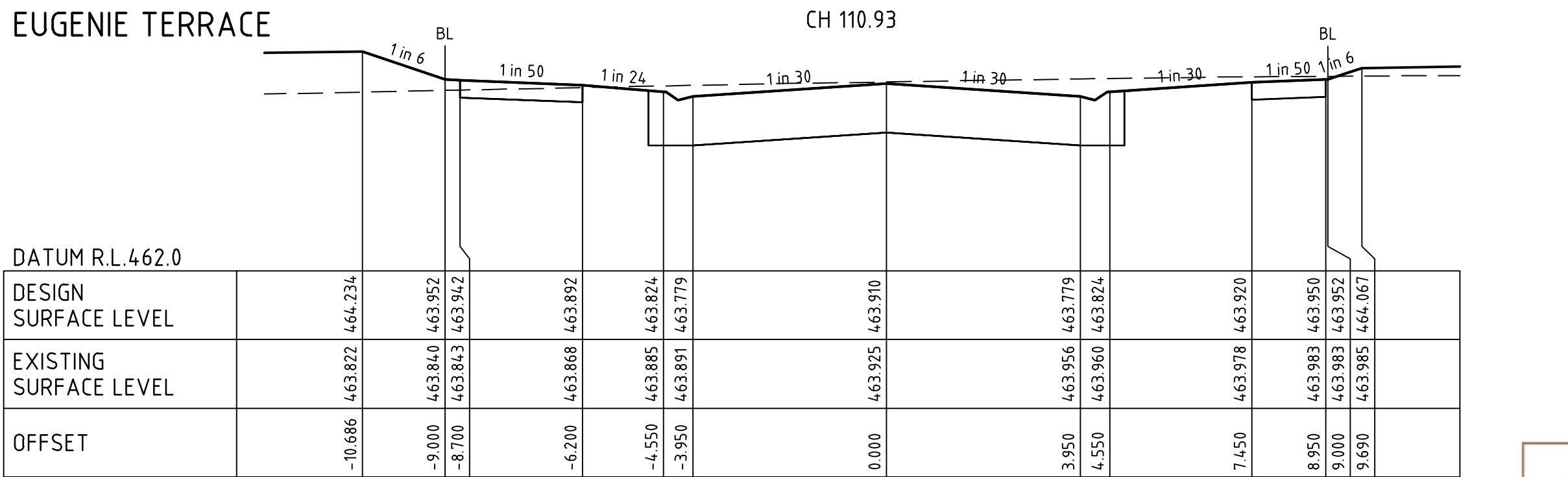
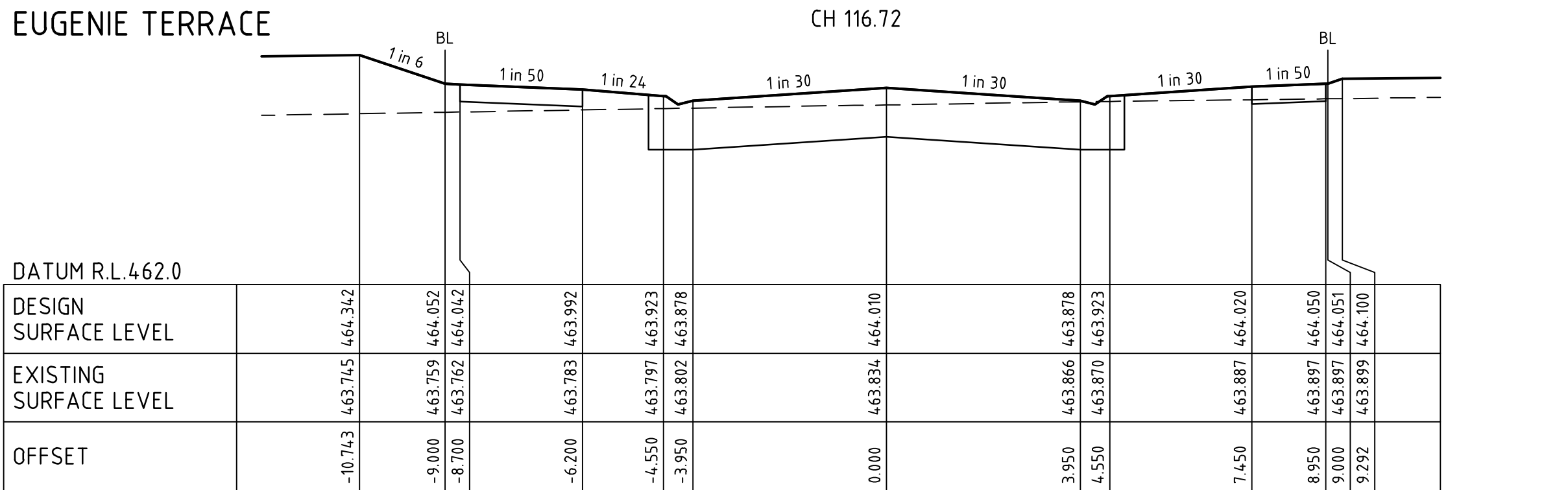
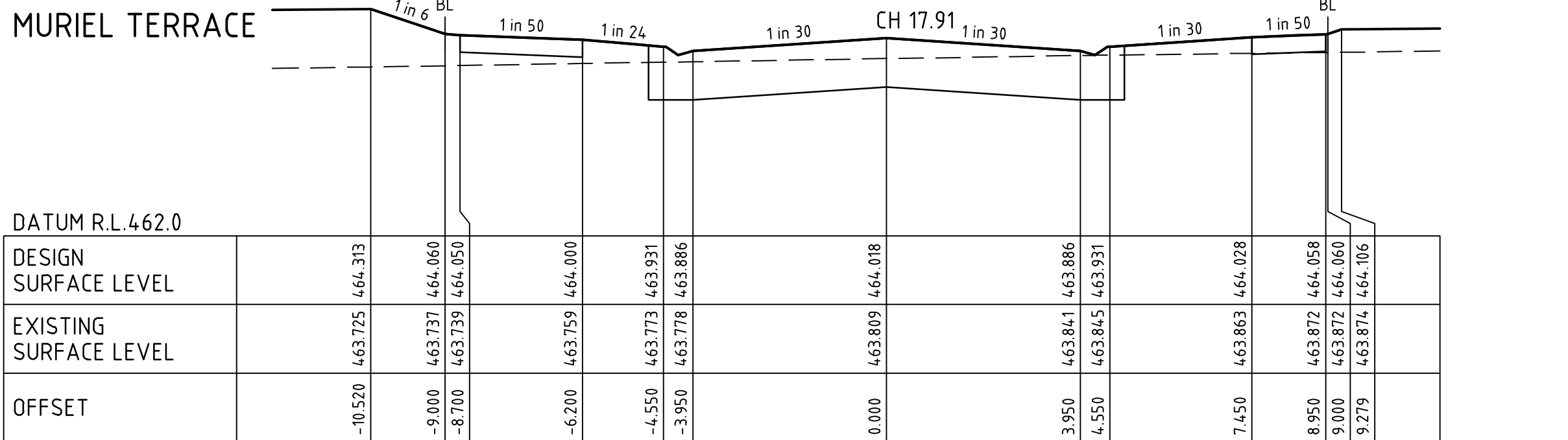
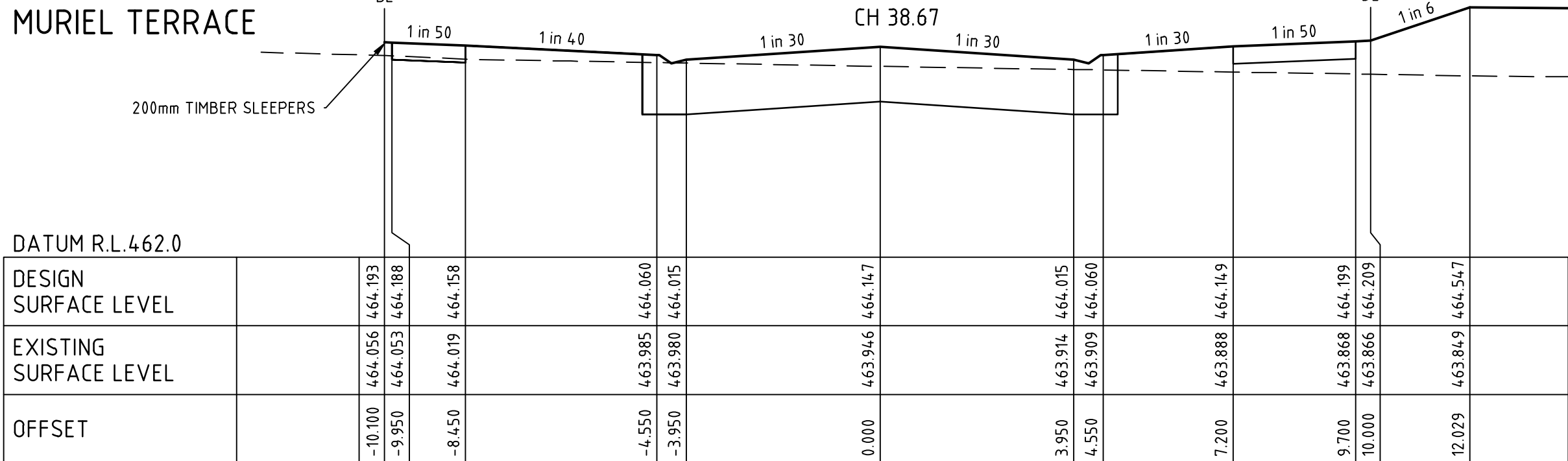
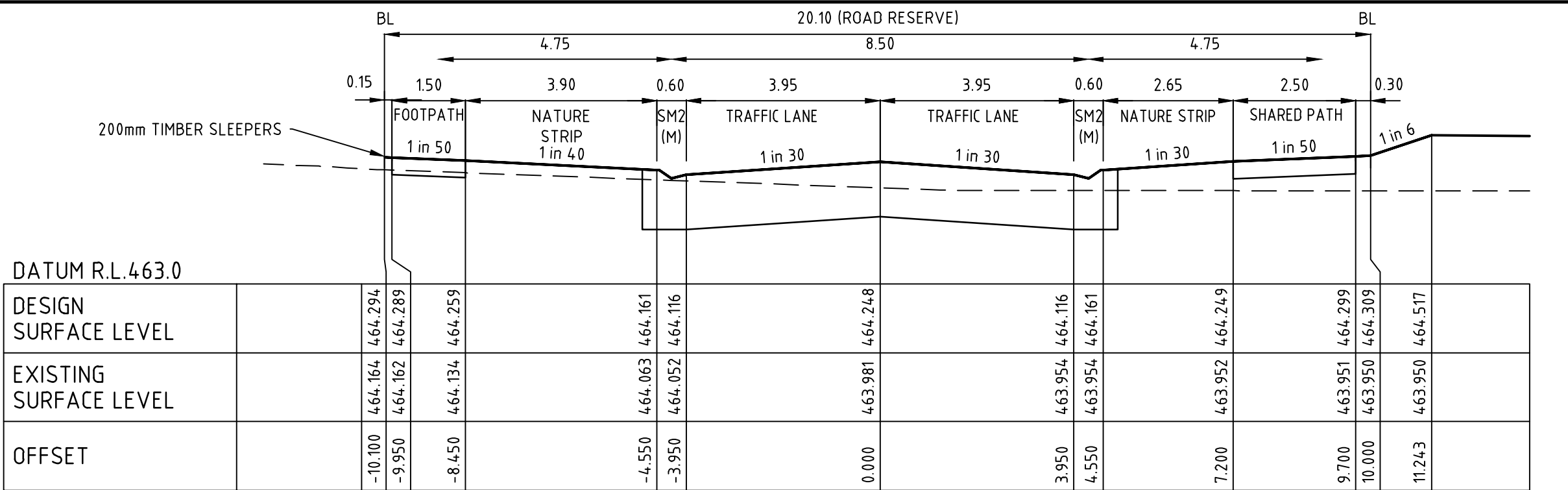
EUGENIE TERRACE CH 57.12



EUGENIE TERRACE CH 33.13



EUGENIE TERRACE CH 15.33



Macedon Ranges Shire Council

APPROVED

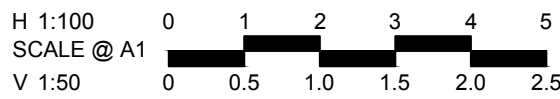
DATE: 1/10/18

AUTHORISED OFFICER: ISTVAN MARTON

Rev No 304849CR403

Rev 0

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18



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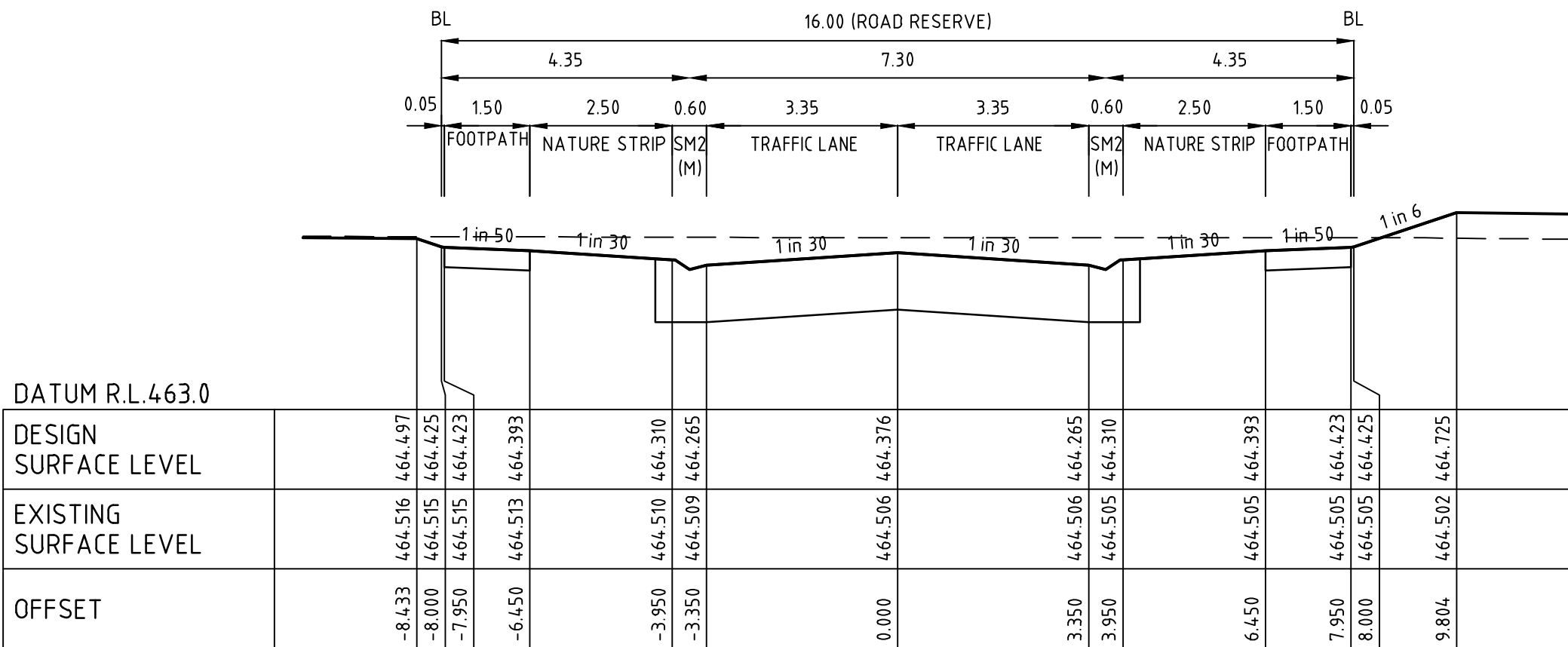


Checked
J. KOEHLER
Date
27-06-2018

CATHLAW ON FERFIER
STAGE 1
ROAD & DRAINAGE
ROAD CROSS SECTIONS SHEET 1 OF 5
MACEDON RANGES SHIRE COUNCIL
COLANZ

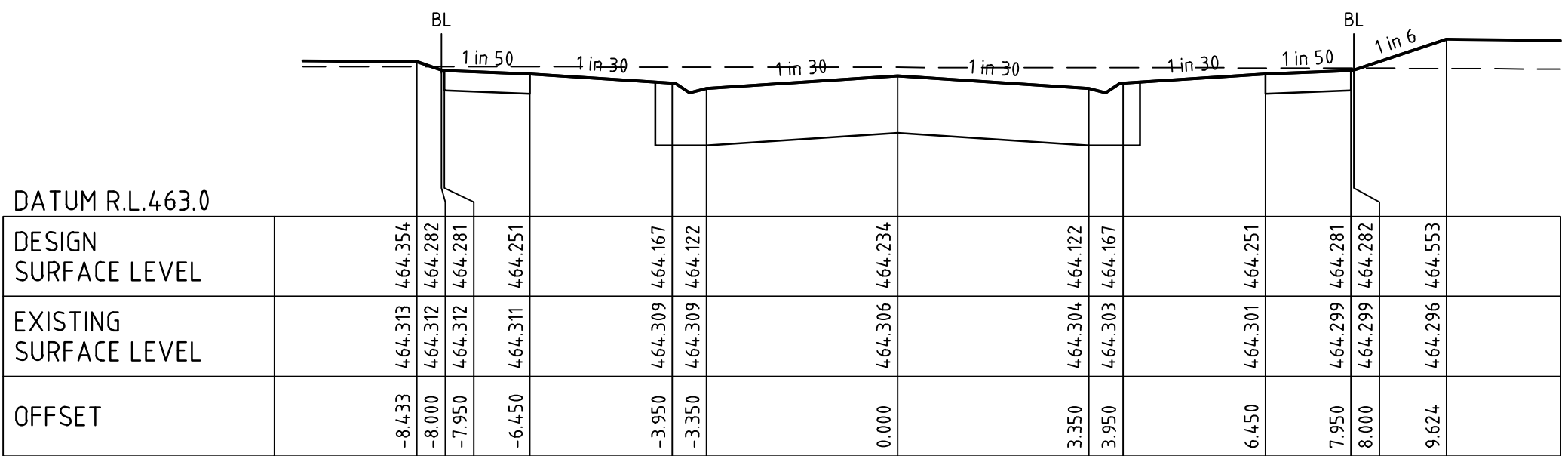
CONSTRUCTION

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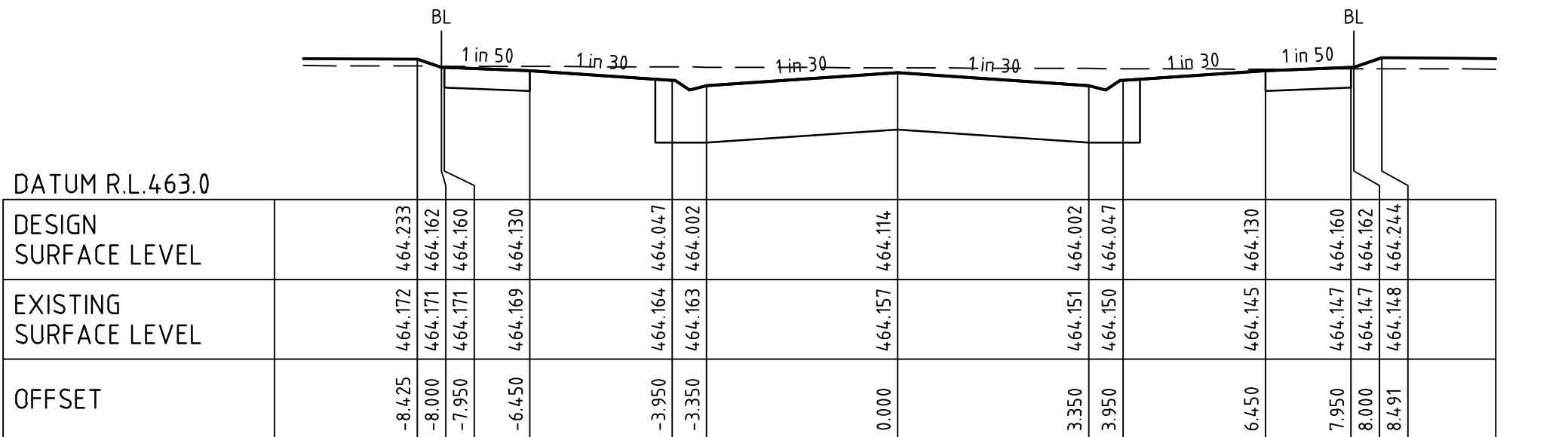
BETTY WAY

CH 92.89



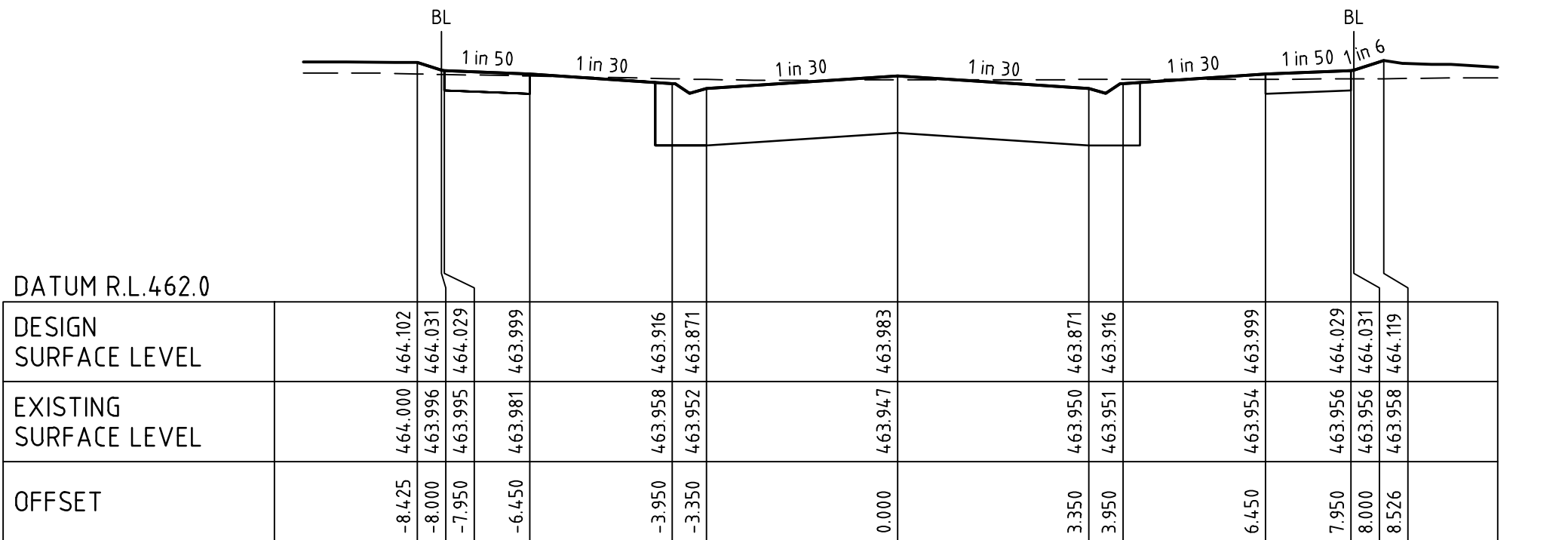
BETTY WAY

CH 64.39



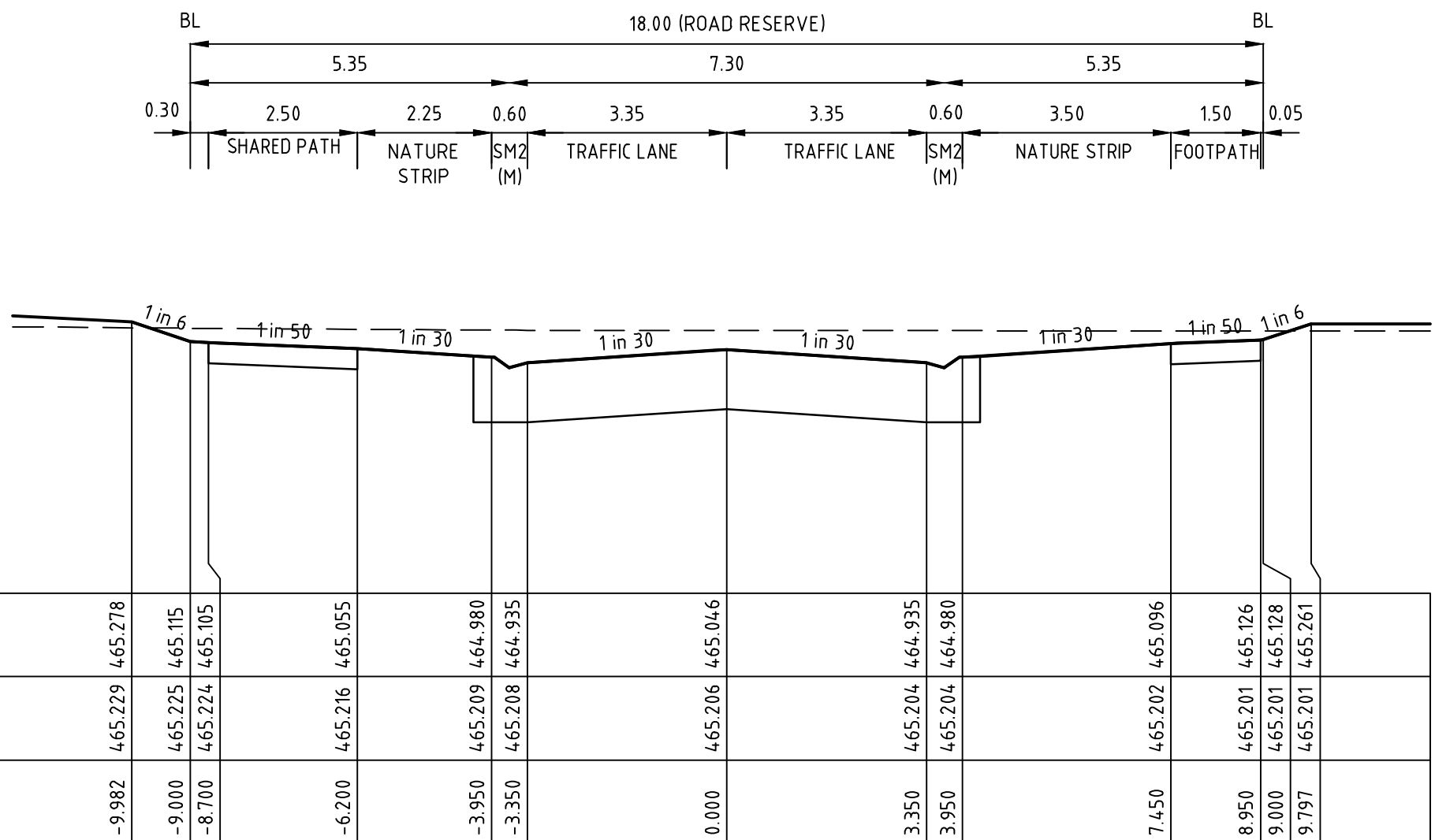
BETTY WAY

CH 40.31



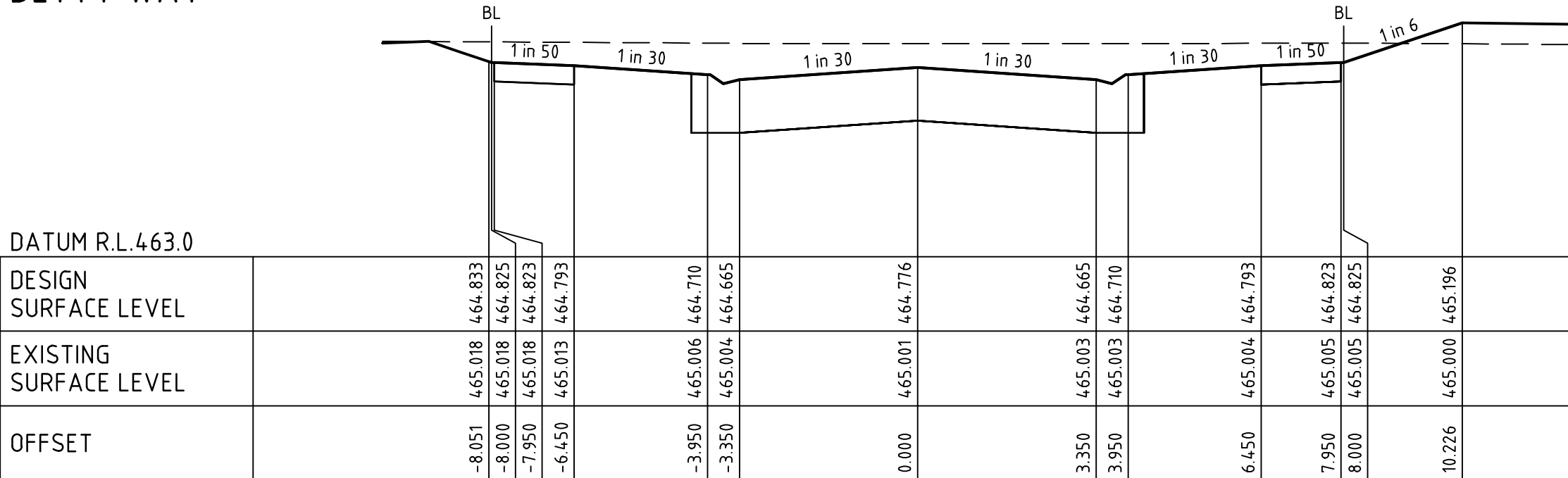
BETTY WAY

CH 14.17



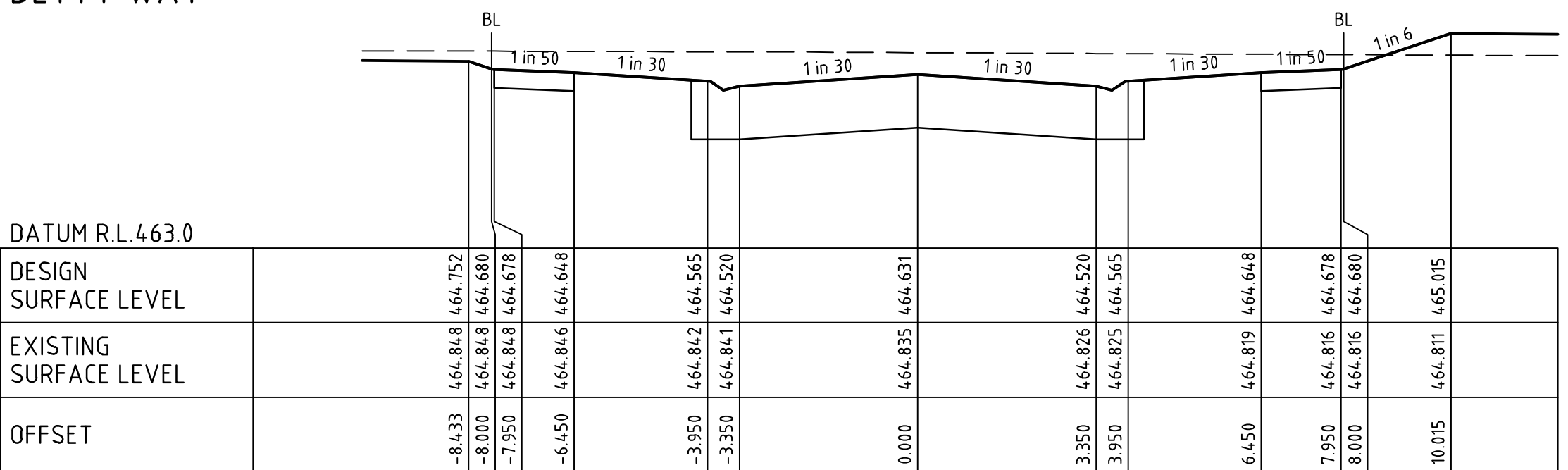
BETTY WAY

CH 199.87



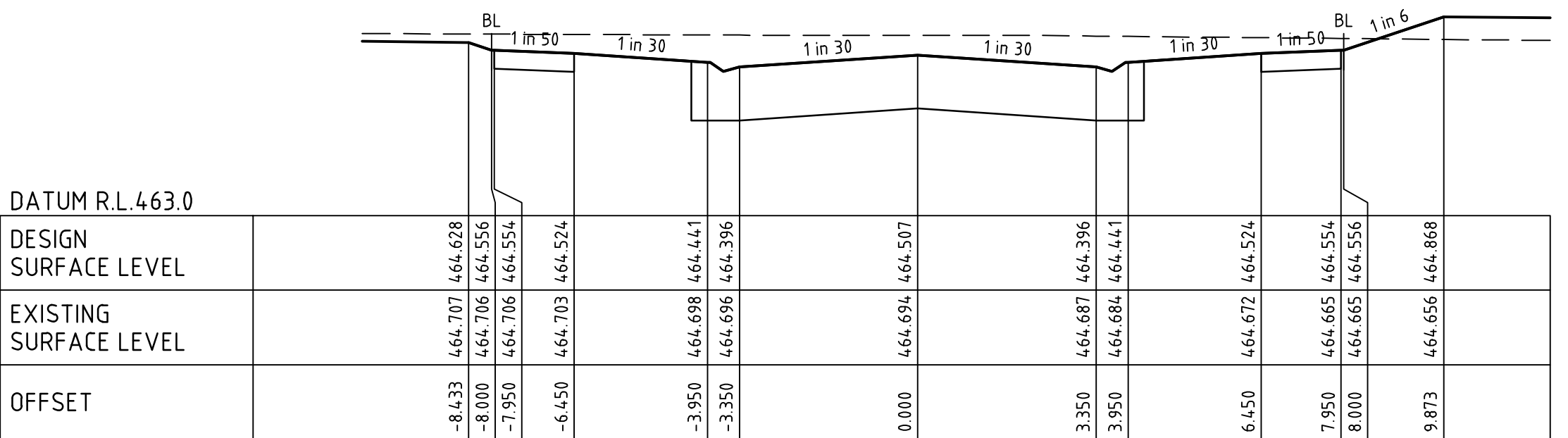
BETTY WAY

CH 172.88



BETTY WAY

CH 143.84



BETTY WAY

CH 119.08

FILLING UNDER PAVEMENT
IN ACCORDANCE WITH
COUNCIL REQUIREMENTS



Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18

H 1:100
SCALE @ A1
V 1:50

0 1 2 3 4 5
0 0.5 1.0 1.5 2.0 2.5



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J. SPENCER

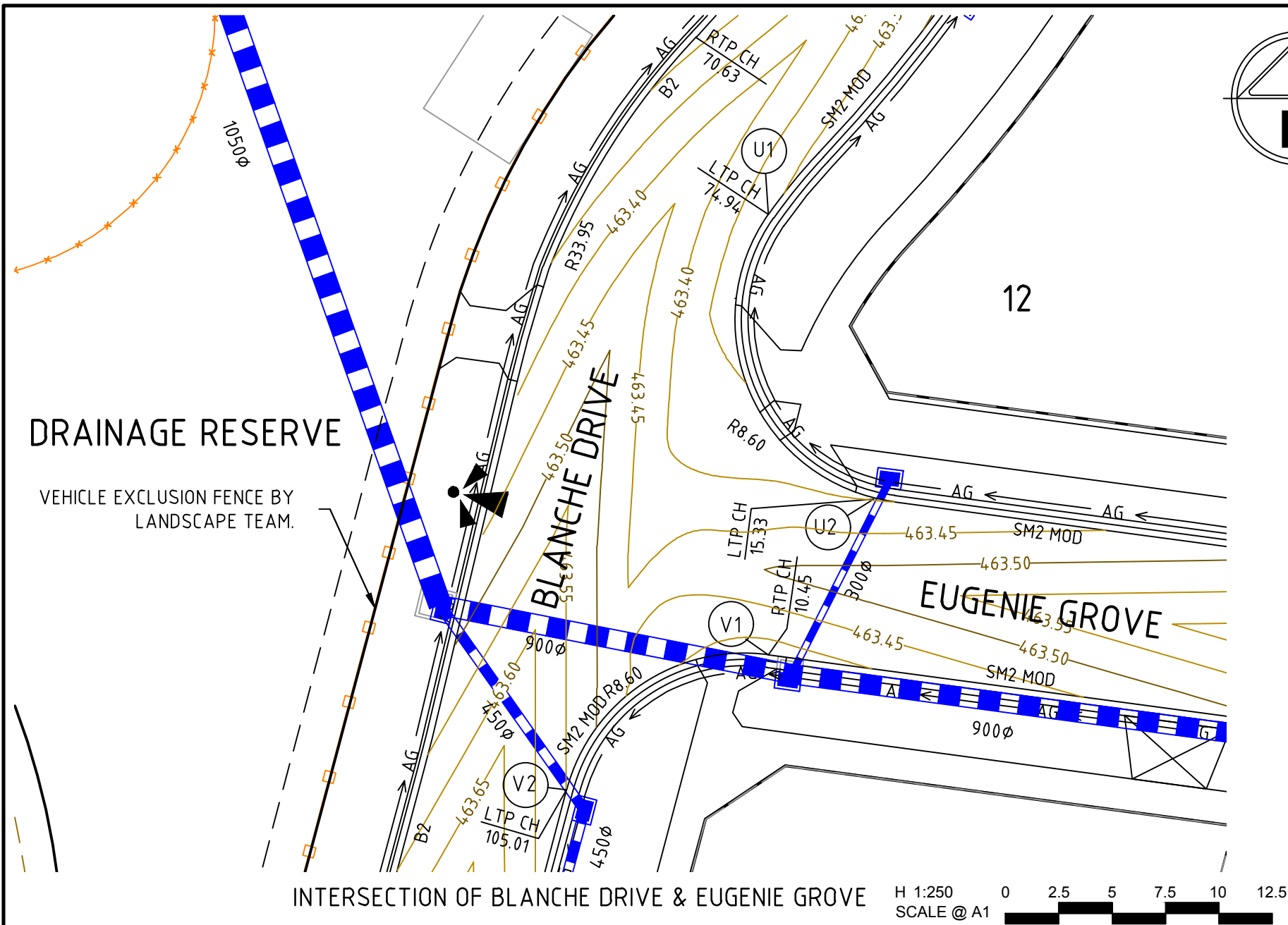


Checked
J. KOEHLER
Date
27-06-2018

CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
ROAD CROSS SECTIONS SHEET 5 OF 5
MACEDON RANGES SHIRE COUNCIL
COLANZ

CONSTRUCTION Drg No 304849CR404

Rev 0



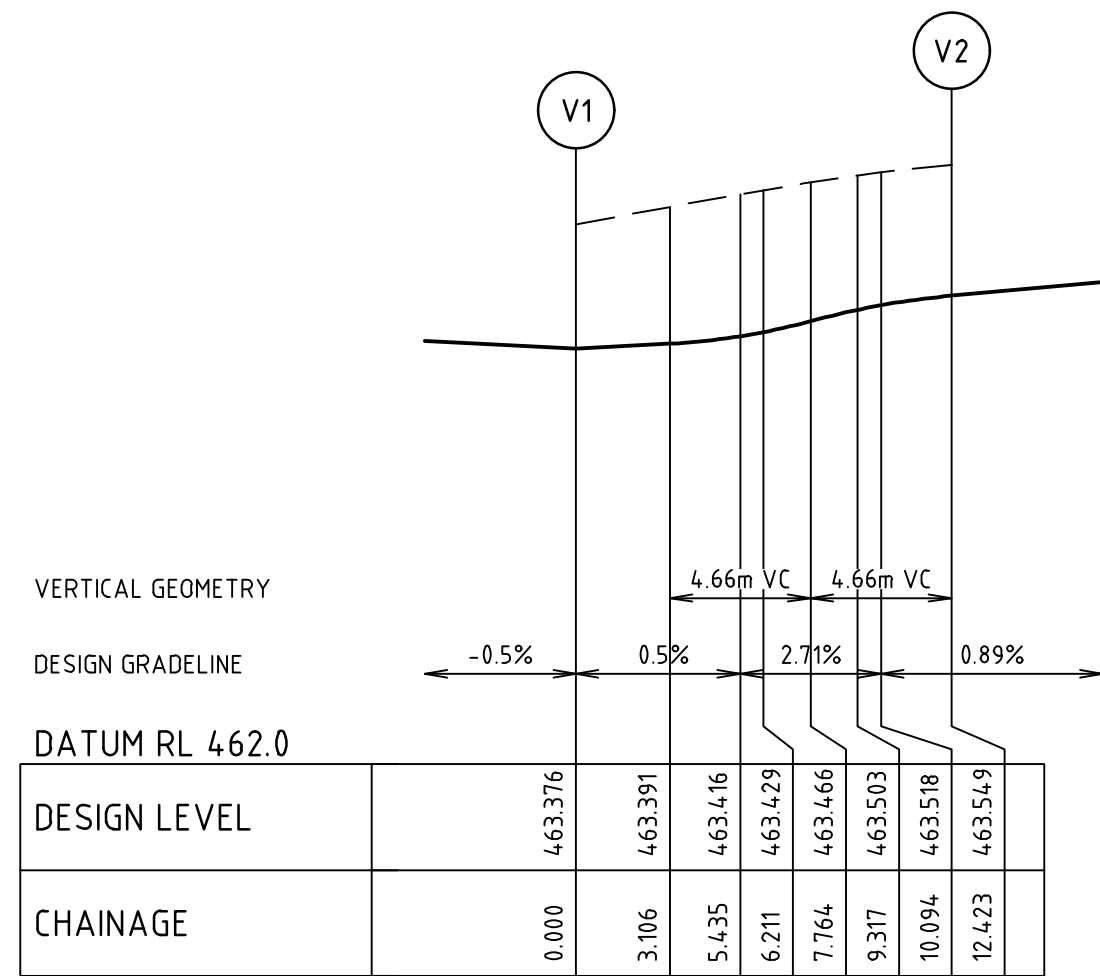
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 462.0

DESIGN LEVEL	463.306	463.329	463.353	463.376	463.400
CHAINAGE	0.000	4.409	8.888	13.226	17.635

ALIGNMENT U



ALIGNMENT V

ALIGNMENT U

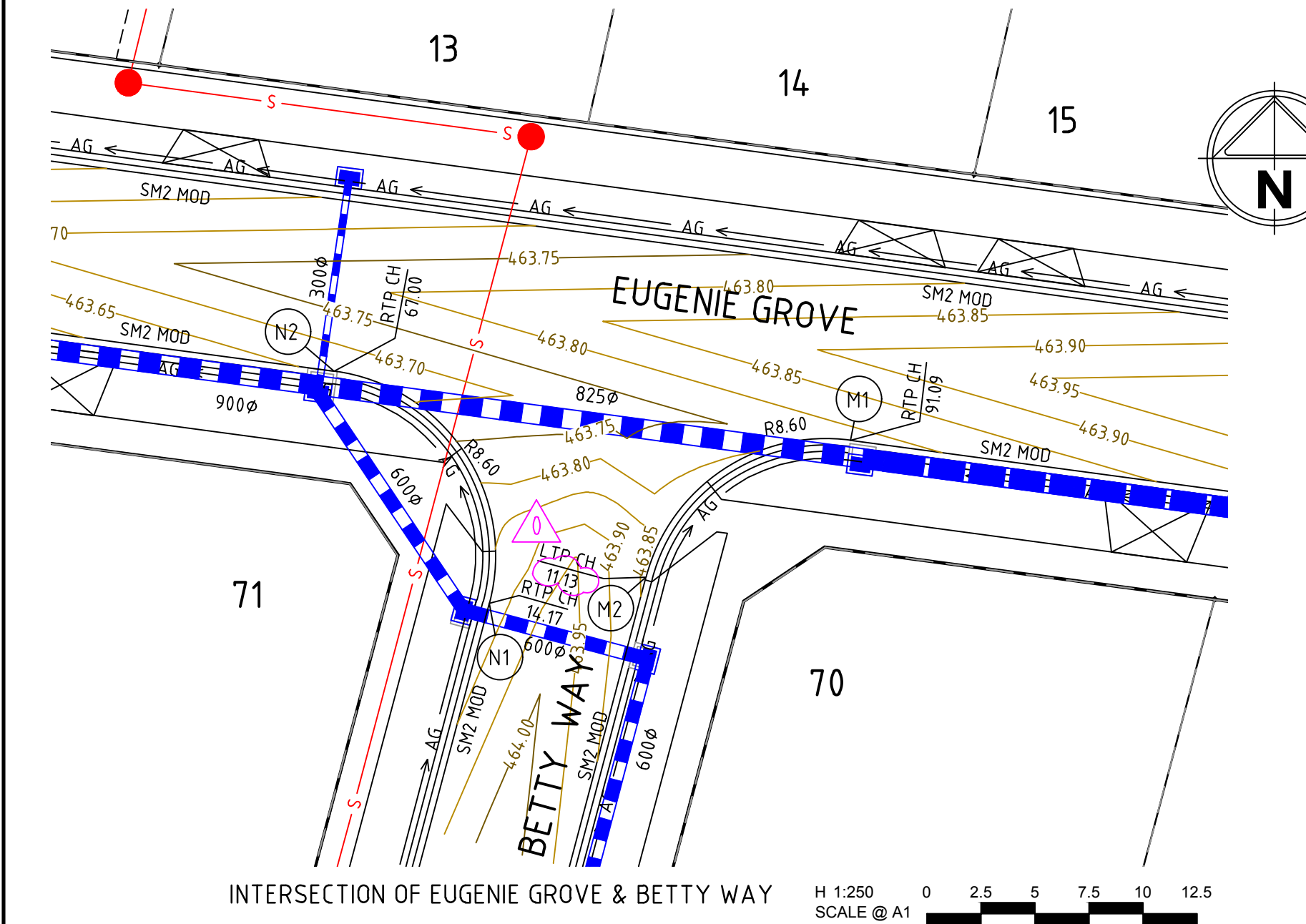
POINT NO	EASTING	NORTHING	RL
U1	287086.271	5851005.651	463.306
1/4	287084.748	5851001.565	463.329
1/2	287085.426	5850997.257	463.353
3/4	287088.129	5850993.835	463.376
U2	287092.163	5850992.180	463.400

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
U1-U2	8.600	17.635	14.704	4.138	-1.106

ALIGNMENT V

POINT NO	EASTING	NORTHING	RL
V1	287086.279	5850984.997	463.376
1/4	287083.193	5850984.851	463.391
1/2	287080.359	5850983.624	463.429
3/4	287078.140	5850981.474	463.503
V2	287076.825	5850978.679	463.549

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
V1-V2	8.600	12.423	11.371	2.147	-0.555



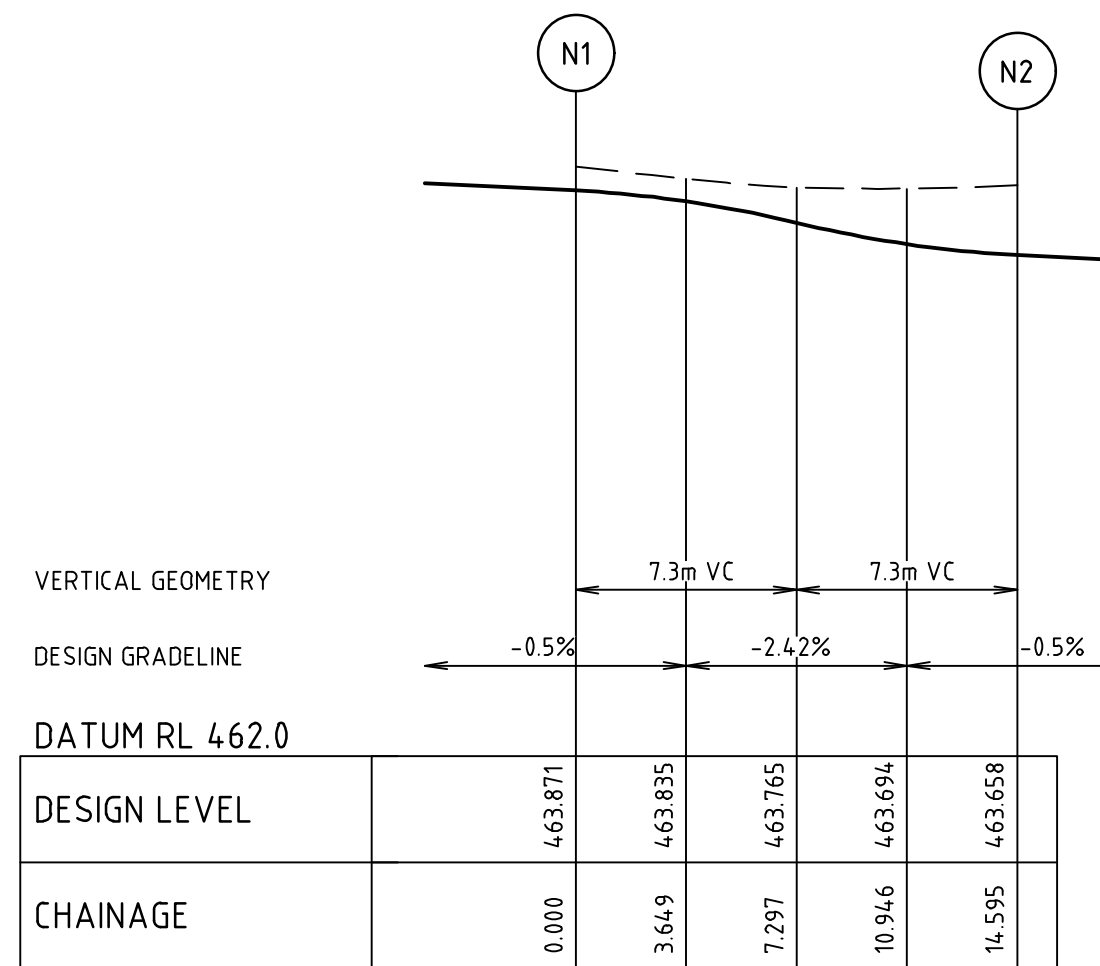
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 462.0

DESIGN LEVEL	463.779	463.794	463.810	463.825	463.841
CHAINAGE	0.000	3.106	6.211	9.317	12.422

ALIGNMENT M



ALIGNMENT N

ALIGNMENT M

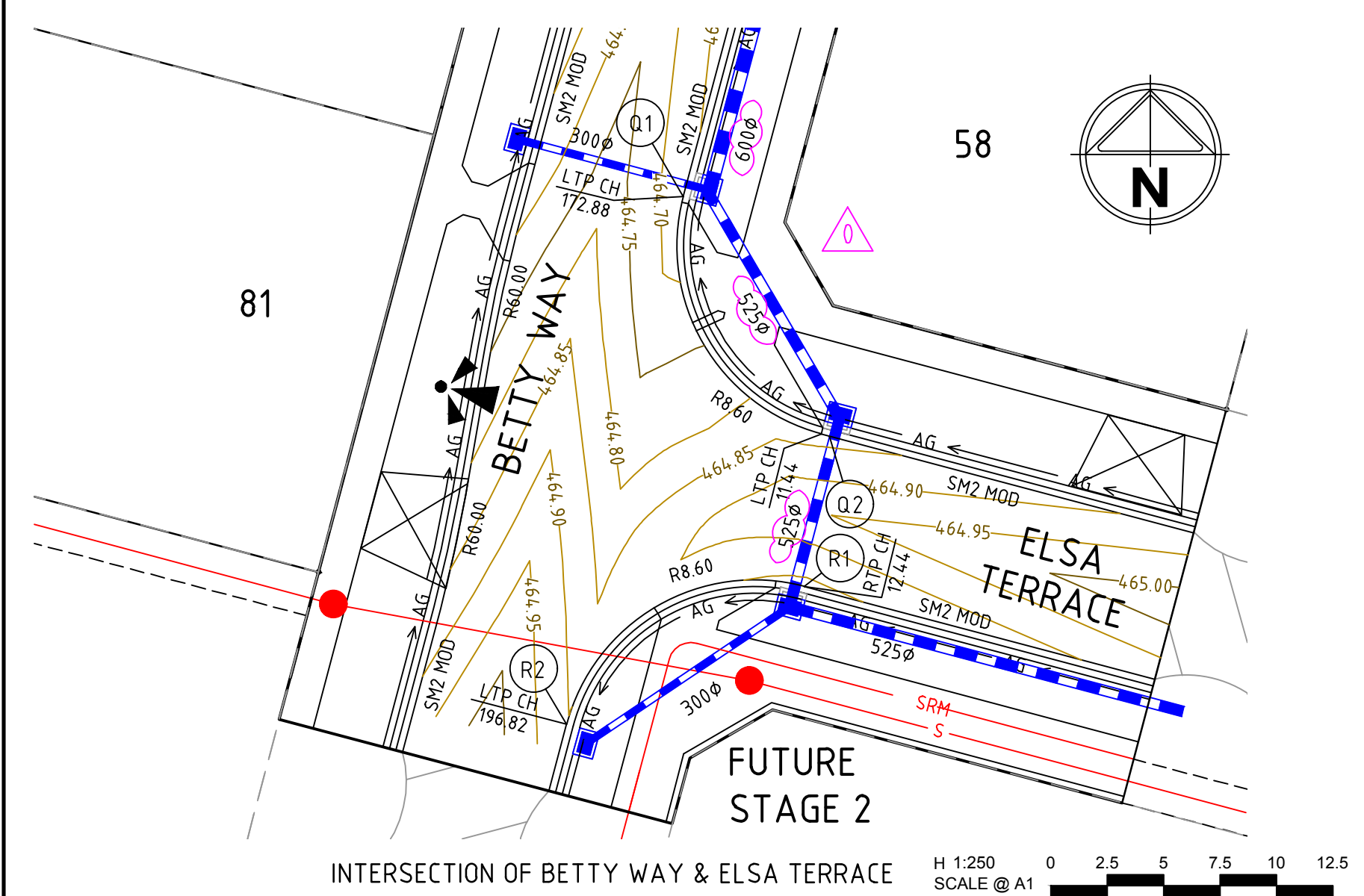
POINT NO	EASTING	NORTHING	RL
M1	287166.207	5850974.291	463.779
1/4	287163.122	5850974.145	463.794
1/2	287160.287	5850972.918	463.810
3/4	287158.069	5850970.768	463.825
M2	287156.753	5850967.974	463.841

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
M1-M2	8.600	12.423	11.371	2.147	-0.555

ALIGNMENT N

POINT NO	EASTING	NORTHING	RL
N1	287149.499	5850966.760	463.871
1/4	287149.670	5850970.377	463.835
1/2	287148.337	5850973.744	463.765
3/4	287145.736	5850976.264	463.694
N2	287142.328	5850977.490	463.658

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
N1-N2	8.600	14.595	12.905	2.915	-0.762



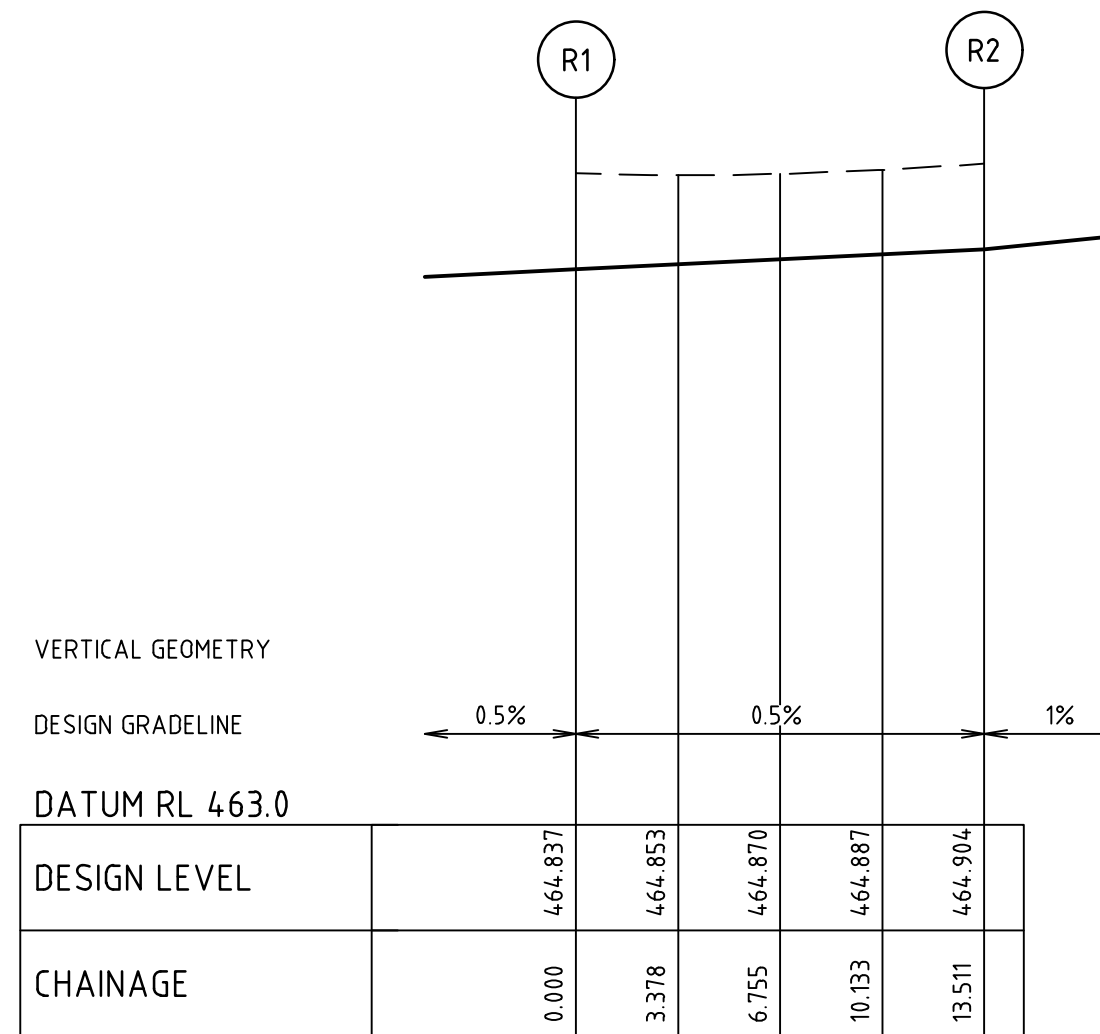
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 463.0

DESIGN LEVEL	464.665	464.694	464.748	464.802	464.832
CHAINAGE	0.000	3.377	6.754	10.130	13.507

ALIGNMENT Q



ALIGNMENT R

ALIGNMENT Q

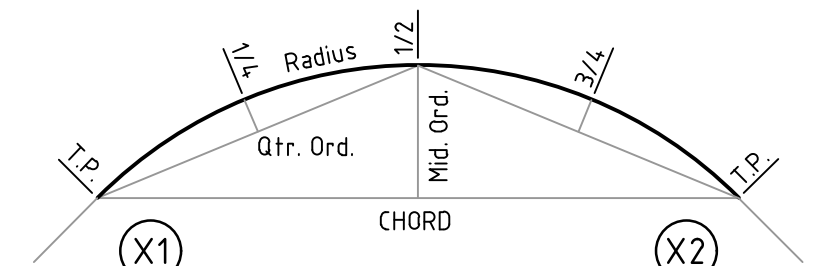
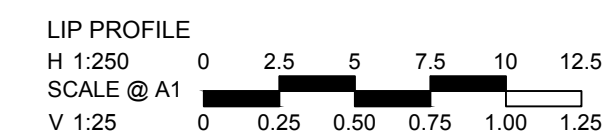
POINT NO	EASTING	NORTHING	RL
Q1	287120.617	5850811.640	464.665
1/4	287115.050	5850808.292	464.694
1/2	287116.136	5850805.117	464.748
3/4	287118.354	5850802.600	464.802
Q2	287121.366	5850801.123	464.832

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Q1-Q2	8.600	13.507	12.161	2.518	-0.654

ALIGNMENT R

POINT NO	EASTING	NORTHING	RL
R1	287117.268	5850794.601	464.837
1/4	287114.092	5850793.515	464.853
1/2	287111.574	5850791.297	464.887
R2	287110.097	5850788.283	464.904

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
R1-R2	8.600	13.511	12.164	2.520	-0.655



NOTE: ALL RADII AND LEVELS ARE TO LIP OF KERB UNLESS OTHERWISE NOTED.

file name: 304849CR501.dwg, layout name: CR501, created by: Kieran Ayres, file location: G:\304849\304849.dwg, xref location: G:\304849\304849.dwg, plot date: 04/09/2018 10:24 AM, Sheet 2 of 2

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION, PIPE SIZE, NOTES UPDATED	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18

Macedon Ranges Shire Council

APPROVED

DATE : 1/10/18

AUTHORISED OFFICER: ISTVAN MARTON

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Macedon Ranges Shire Council

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Authorised
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Checked
J. KOEHLER

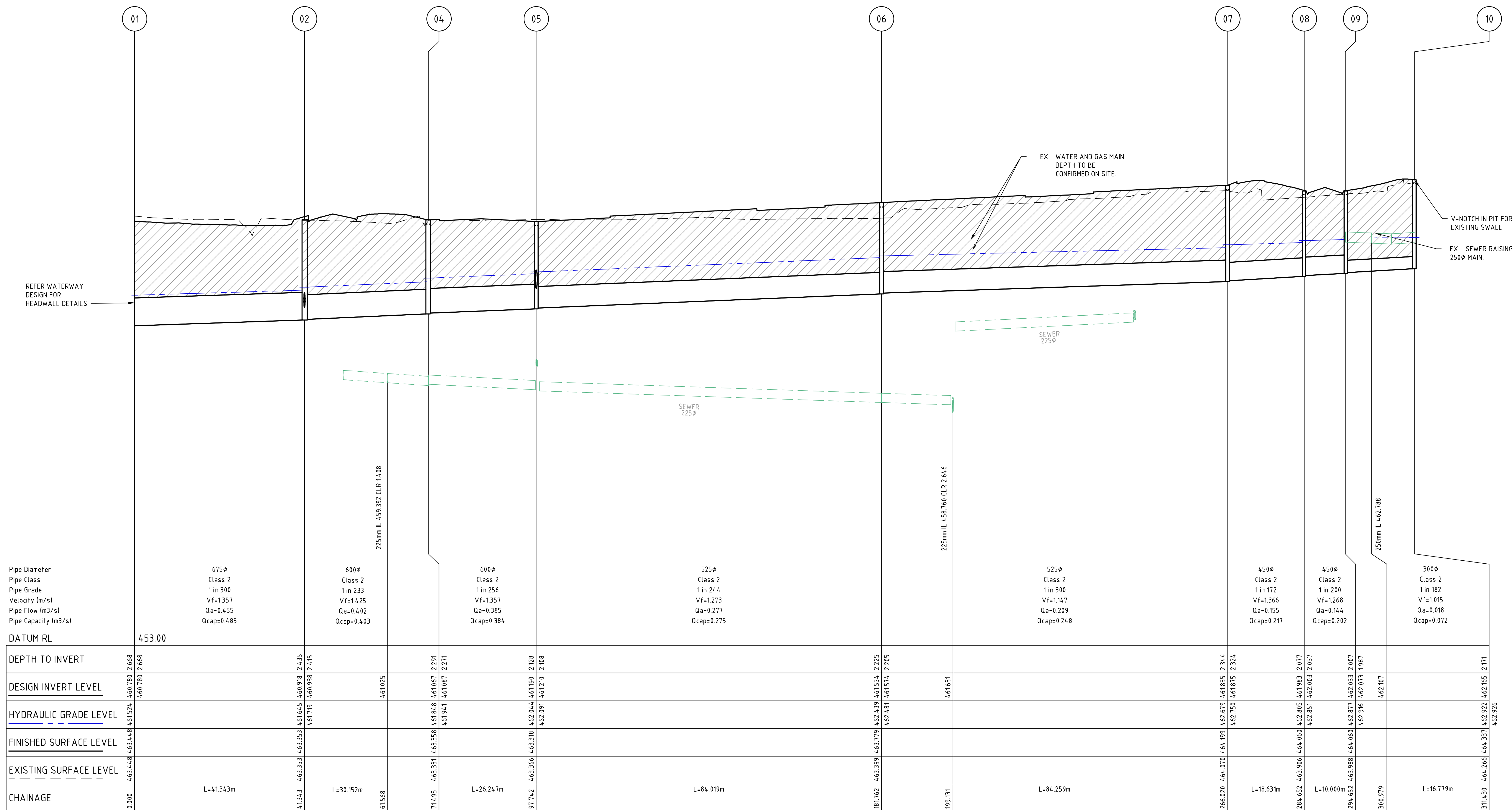
Date
27-06-2018

CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
INTERSECTION DETAILS SHEET 2 OF 2
MACEDON RANGES SHIRE COUNCIL
COLANZ

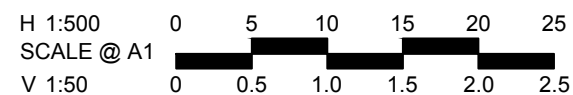
CONSTRUCTION

Drg No
304849CR501

Rev
0



0	ISSUED FOR CONSTRUCTION	J.P.	31-08-18
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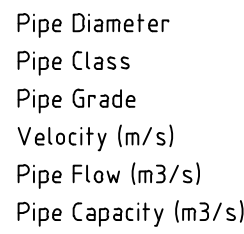
Designed
K. KUQO
Authorised
J. SPENCER



Checked
J. KOEHLER
Date
27-06-2018

CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
DRAINAGE LONG SECTIONS (SHEET 1 OF 7)
 MACEDON RANGES SHIRE COUNCIL
 COLANZ

CONSTRUCTION Drg No Rev
304849CR600 **0**

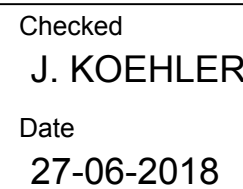
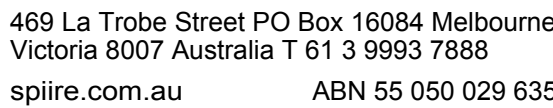
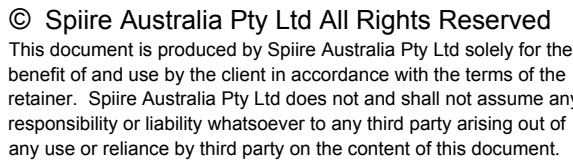


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9.847	463.515	463.322	462.098	461.798	1524
			462.099		

0.000	463.566	463.318	462.057	461.191	2.127
			462.105	461.691	1627
			462.141		
6.791				461.717	
L=41977m					
41.977	463.507	463.948	462.309	461.859	2.089
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42.982				461.937	

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			462.703	462.392	1933
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			463.097	462.764	1593
L=10.041m					
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CONSTRUCTION Drg No 304849CR601 Rev 0

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CRUSHED ROCK BACKFILL

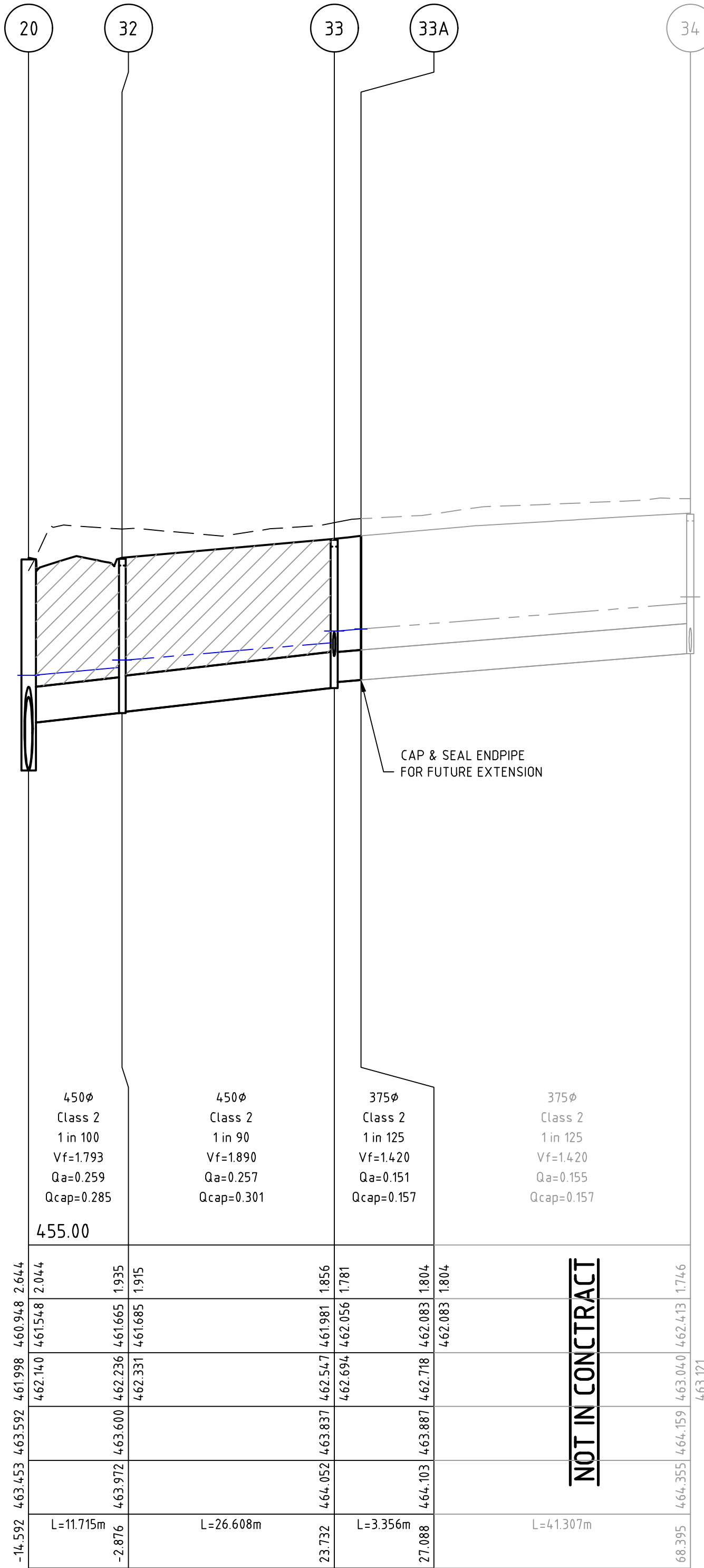
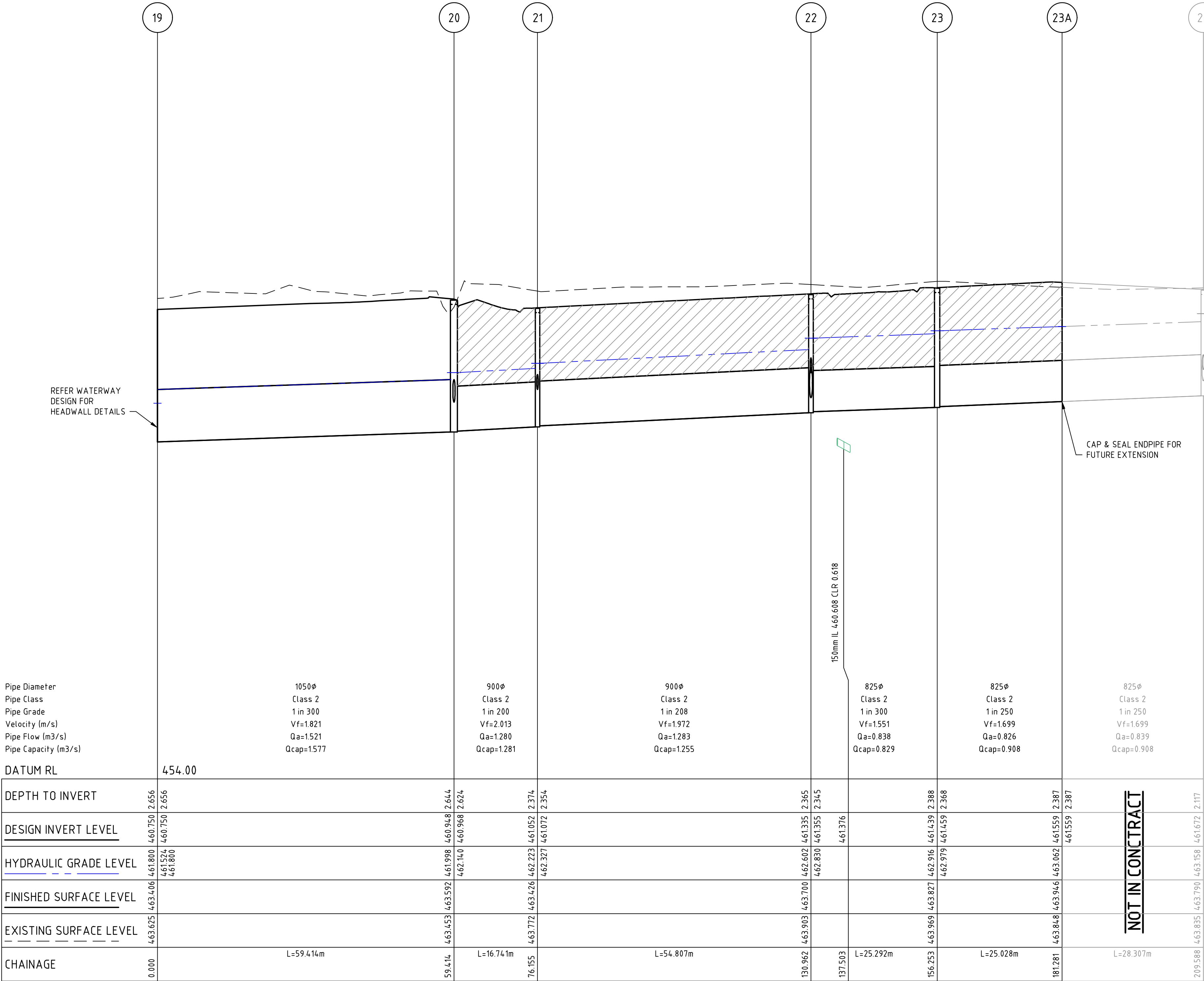
Macedon Ranges

Shire Council

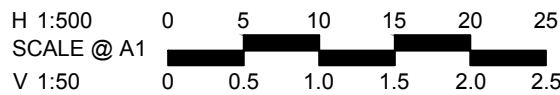
APPROVED

DATE : 1/10/18

AUTHORISED OFFICER:
ISTVAN MARTON



0	ISSUED FOR CONSTRUCTION	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18
Rev	Amendments	Approved	Date



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Authorised
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Checked
J. KOEHLER
Date
27-06-2018

CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
DRAINAGE LONG SECTIONS (SHEET 3 OF 7)
MACEDON RANGES SHIRE COUNCIL
COLANZ

CONSTRUCTION

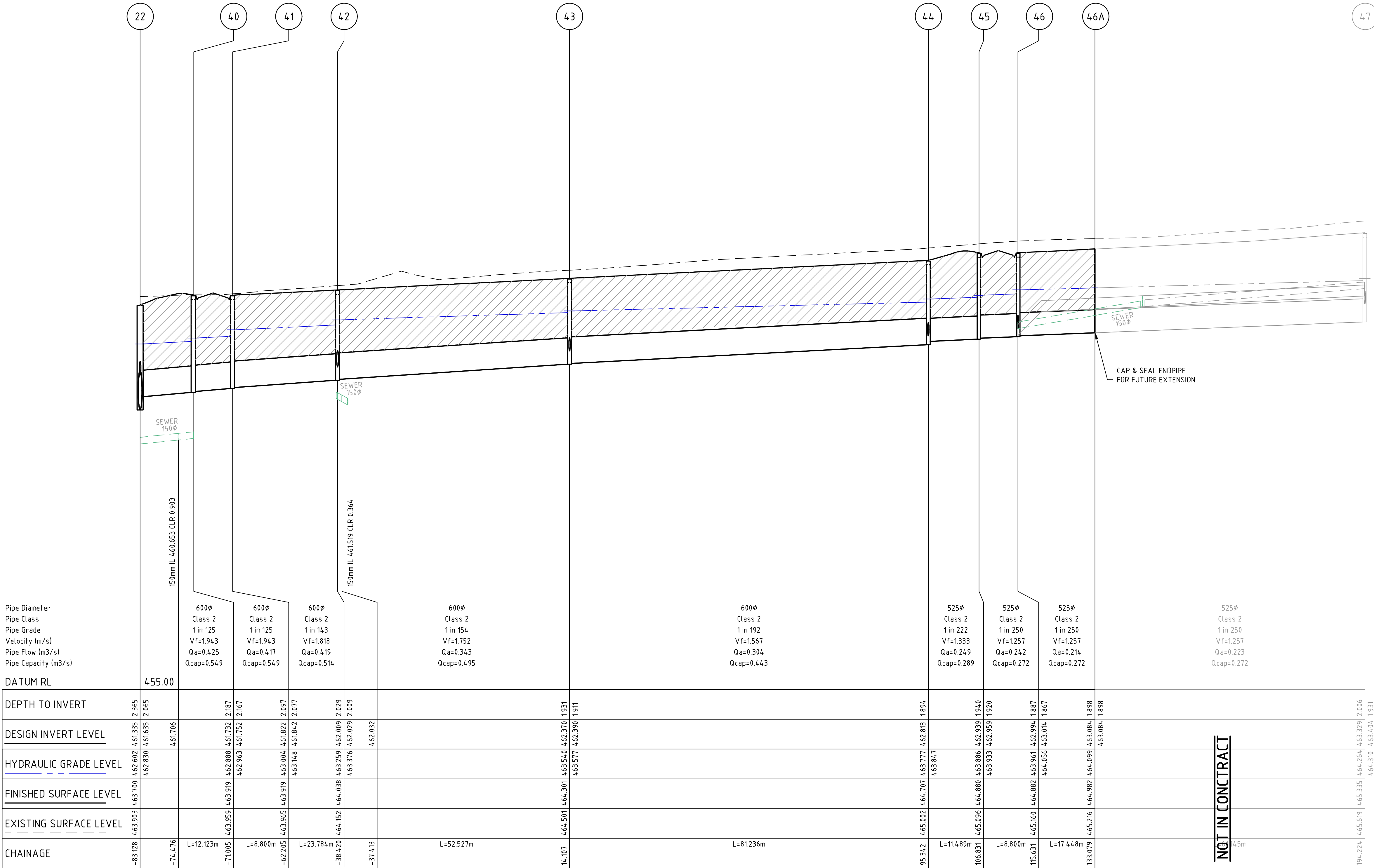
Drg No
304849CR602

Rev
0

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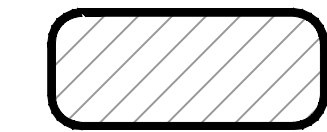


Macedon Ranges
Shire Council

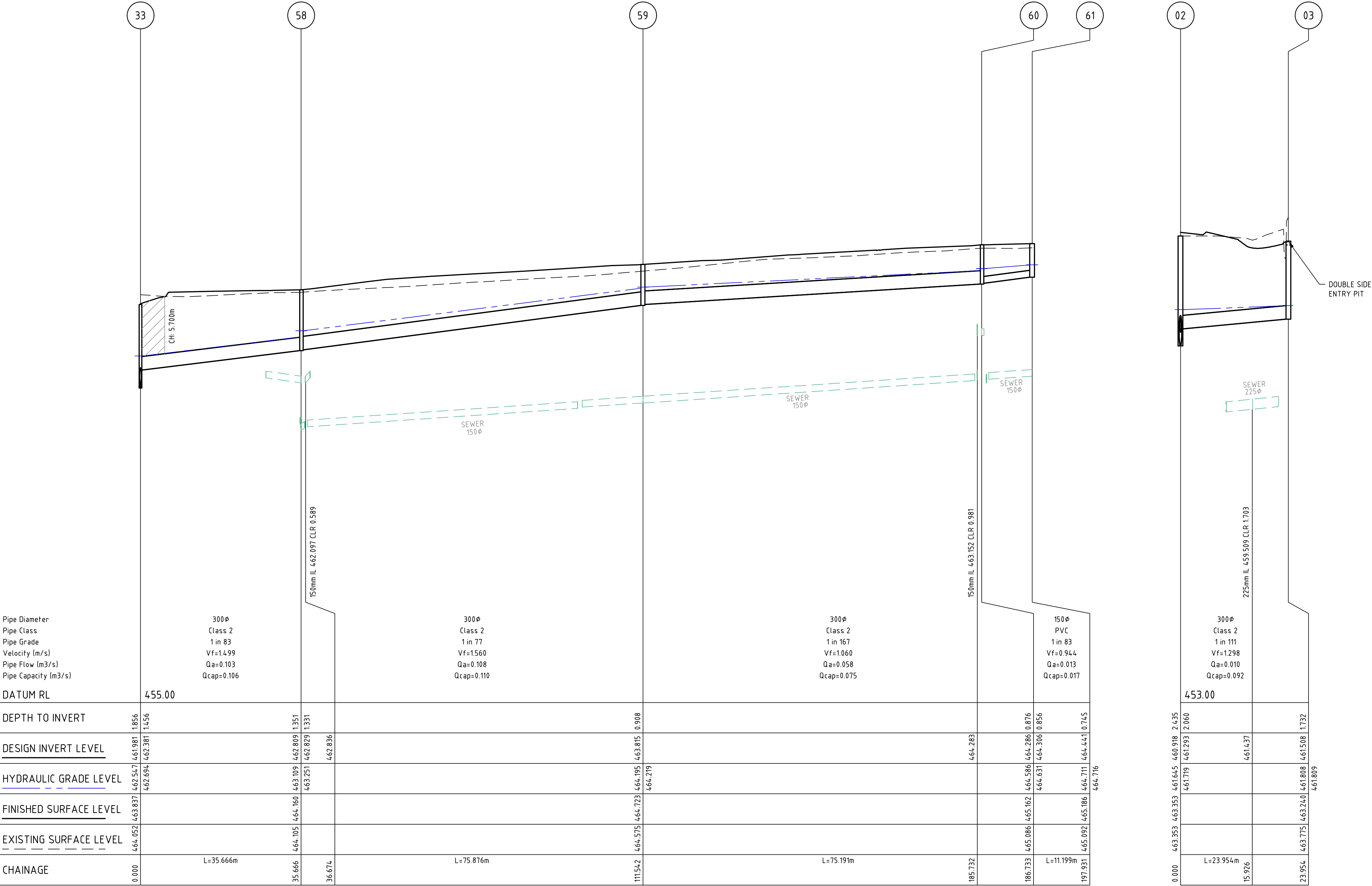
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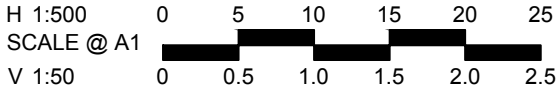
Macedon Ranges
Shire Council

APPROVED
DATE : 1/10/18

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file name 304849CR604.dwg layout name CR604 plotted by Kieran Ayres
file location G:\304849\304849.dwg\304849.dwg\304849.dwg plot date 04/09/2018 10:24 AM Sheet of Sheets

0	ISSUED FOR CONSTRUCTION	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18
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27-06-2018

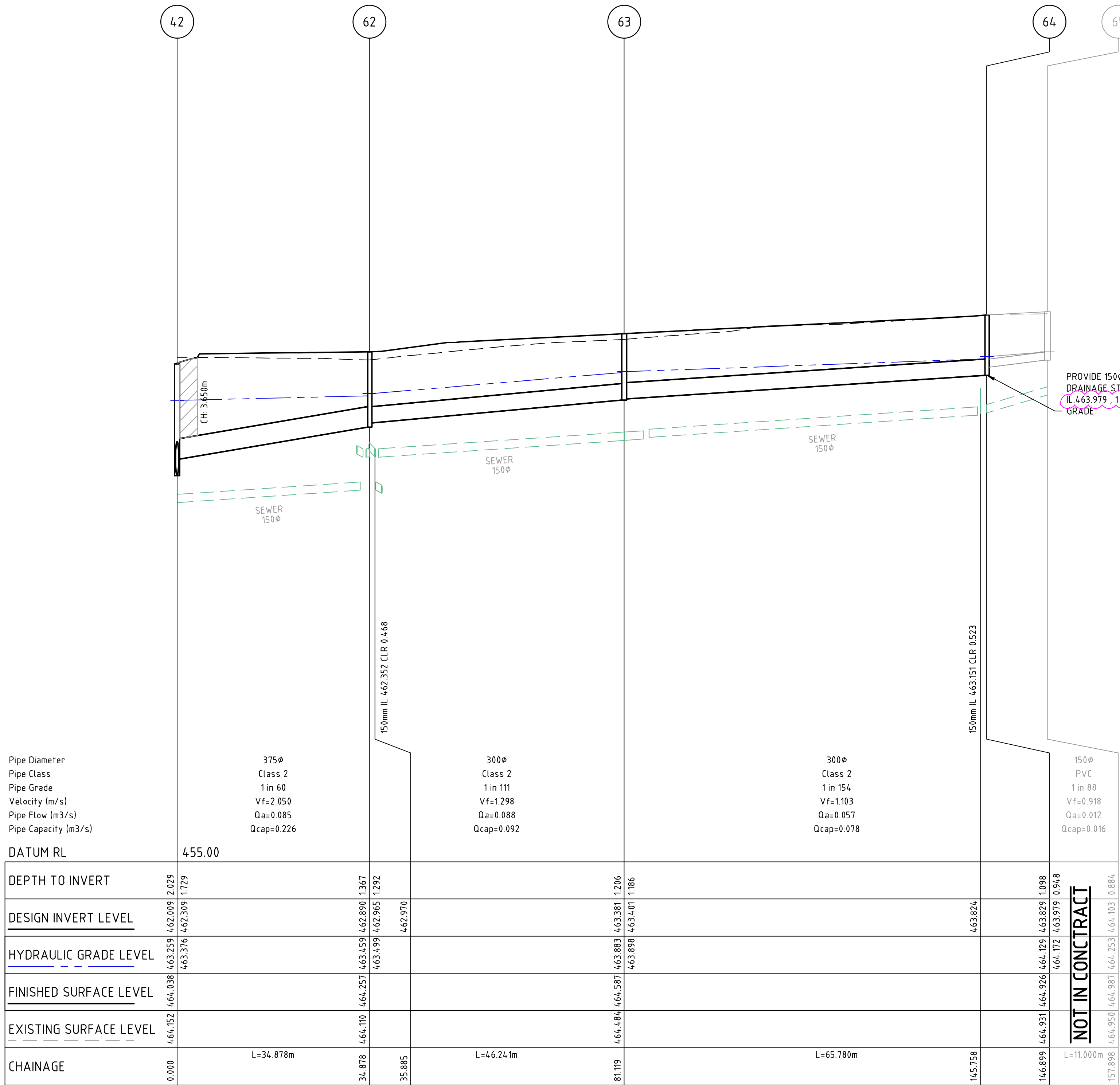
CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
DRAINAGE LONG SECTIONS (SHEET 5 OF 7)
MACEDON RANGES SHIRE COUNCIL
COLANZ

CONSTRUCTION Drg No 304849CR604 Rev 0

file name 304849CR605.dwg layout name CR605 file location G:\304849\DWG\ALCAD plot date 04/09/2018 10:24 AM Sheet of Sheets

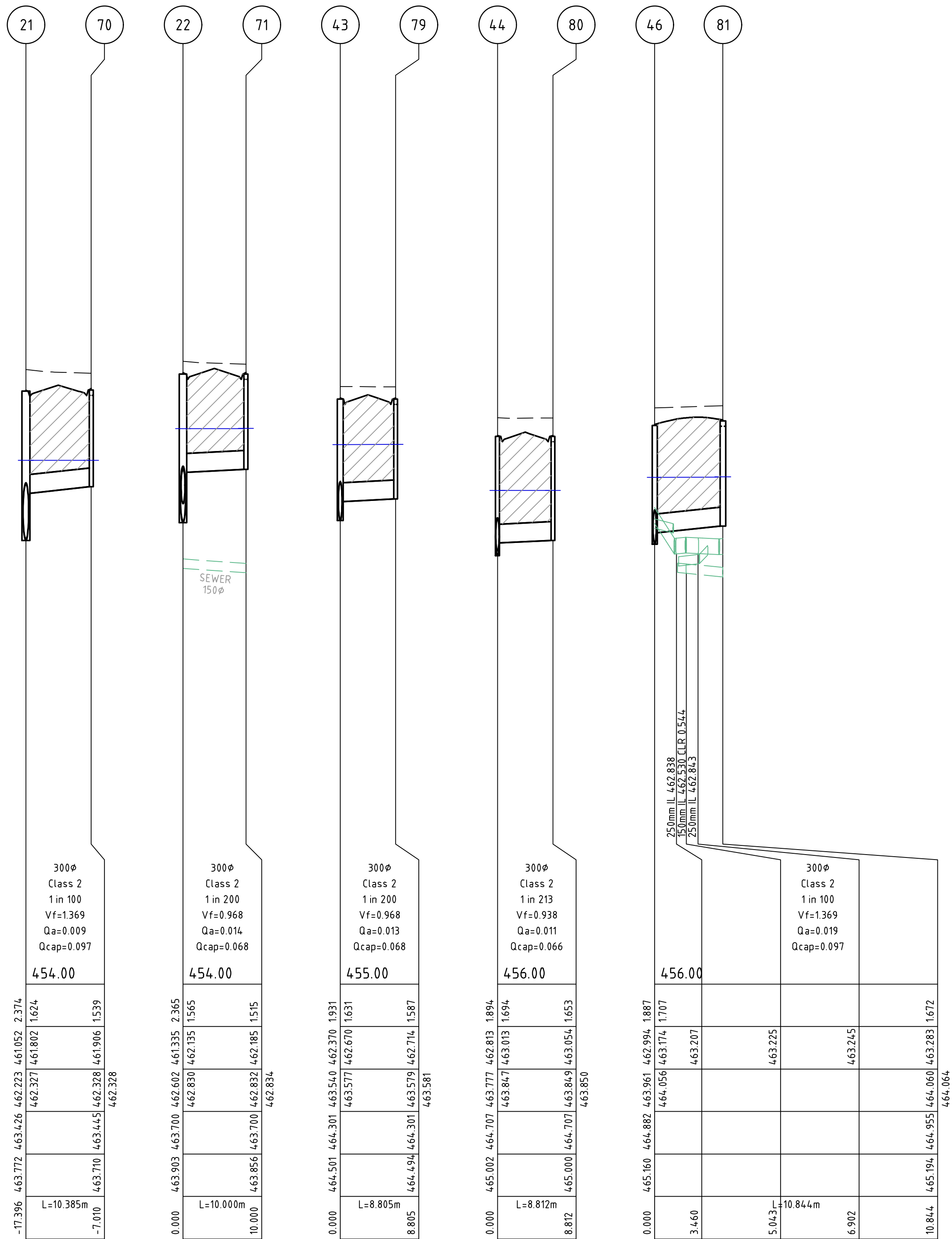


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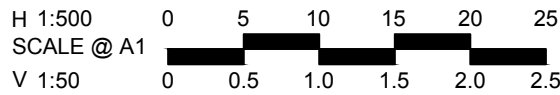


PROVIDE 150ø DRAINAGE STUB AT IL 463.979, 1 IN 88 GRADE

NOT IN CONTRACT



0	ISSUED FOR CONSTRUCTION, IL UPDATED	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18
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Date
27-06-2018

CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
DRAINAGE LONG SECTIONS (SHEET 6 OF 7)
MACEDON RANGES SHIRE COUNCIL
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CONSTRUCTION Drg No 304849CR605 Rev 0

file name: 304849CR606.dwg, layout name: CR606, file location: G:\304849\304849.dwg, LACAD plot date: 04/09/2018, 10:24 AM, Sheet of Sheets

DRAINAGE PIT SCHEDULE

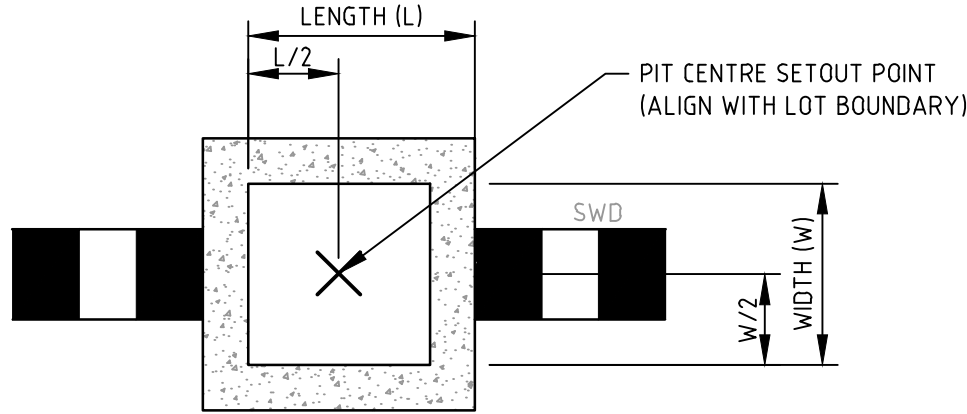
PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
01	ENDWALL	0	0	675	460.780			463.448	2.668	REFER WATERWAY DESIGN FOR HEADWALL DETAILS
02	SIDE ENTRY PIT	600	1200	600	460.938	675	460.918	463.353	2.435	REFER MRSC STD DRG SD 020
				300	461.218					
				300	461.293					
03	DOUBLE SIDE ENTRY PIT	900	600			300	461.508	463.240	1.732	REFER IDM STD DRG SD 445
04	SIDE ENTRY PIT	900	1200	600	461.087	600	461.067	463.358	2.291	REFER MRSC STD DRG SD 020
05	GRATED ENTRY PIT	900	900	525	461.210	600	461.190	463.318	2.128	REFER MRSC STD DRG SD 017 & SD 020
				450	461.690					
06	SIDE ENTRY PIT	900	900	525	461.574	525	461.554	463.779	2.225	REFER MRSC STD DRG SD 020
07	SIDE ENTRY PIT	900	900	450	461.875	525	461.855	464.199	2.344	REFER MRSC STD DRG SD 020
08	SIDE ENTRY PIT	600	900	450	462.003	450	461.983	464.060	2.077	REFER MRSC STD DRG SD 012
09	SIDE ENTRY PIT	600	900	300	462.073	450	462.053	464.060	2.007	REFER MRSC STD DRG SD 012
10	V-NOTCH PIT	600	900			300	462.165	464.337	2.171	REFER MRSC STD DRG SD 016
11	SIDE ENTRY PIT	600	900	300	461.293	300	461.273	463.378	2.106	REFER MRSC STD DRG SD 012
12	SIDE ENTRY PIT	600	900	300	461.419	300	461.399	463.291	1.892	REFER MRSC STD DRG SD 012
				300	461.749					
13	SIDE ENTRY PIT	600	900			300	461.484	463.308	1.824	REFER MRSC STD DRG SD 012
14	SIDE ENTRY PIT	600	900			300	461.798	463.322	1.524	REFER MRSC STD DRG SD 012
15	JUNCTION PIT	600	900	375	461.934	450	461.859	463.948	2.089	REFER MRSC STD DRG SD 014
16	JUNCTION PIT	600	900	300	462.392	375	462.317	464.325	2.008	REFER MRSC STD DRG SD 014
17	JUNCTION PIT	600	900	150	462.764	300	462.744	464.358	1.613	REFER MRSC STD DRG SD 014, PROVIDE 150Ø STUB
19	ENDWALL	0	0	1050	460.750			463.406	2.656	REFER WATERWAY DESIGN FOR HEADWALL DETAILS
20	SIDE ENTRY PIT	1350	1200	900	460.968	1050	460.948	463.592	2.644	REFER MRSC STD DRG SD 020
				450	461.548					
21	SIDE ENTRY PIT	1200	900	900	461.072	900	461.052	463.426	2.374	REFER MRSC STD DRG SD 020
				300	461.802					
22	SIDE ENTRY PIT	1200	1050	825	461.355	900	461.335	463.700	2.365	REFER MRSC STD DRG SD 020
				600	461.635					
				300	462.135					
23	SIDE ENTRY PIT	1050	900	825	461.459	825	461.439	463.827	2.388	REFER MRSC STD DRG SD 020
23A	TANGENT POINT	0	0	825	461.559	825	461.559	463.946	2.387	CAP FOR FUTURE EXTENSION
32	SIDE ENTRY PIT	600	900	450	461.685	450	461.665	463.600	1.935	REFER MRSC STD DRG SD 014
33	SIDE ENTRY PIT	600	900	375	462.056	450	461.981	463.837	1.856	REFER MRSC STD DRG SD 014
				300	462.381					
33A	TANGENT POINT	0	0	375	462.083	375	462.083	463.887	1.804	CAP FOR FUTURE EXTENSION
40	SIDE ENTRY PIT	600	1050	600	461.752	600	461.732	463.919	2.187	REFER MRSC STD DRG SD 012
41	SIDE ENTRY PIT	900	900	600	461.842	600	461.822	463.919	2.097	REFER MRSC STD DRG SD 020
42	SIDE ENTRY PIT	900	900	600	462.029	600	462.009	464.038	2.029	REFER MRSC STD DRG SD 020
				375	462.309					
43	SIDE ENTRY PIT	900	900	600	462.390	600	462.370	464.301	1.931	REFER MRSC STD DRG SD 020
				300	462.670					
44	SIDE ENTRY PIT	900	900	525	462.888	600	462.813	464.707	1.894	REFER MRSC STD DRG SD 020
				300	463.013					
45	SIDE ENTRY PIT	900	900	525	462.959	525	462.939	464.880	1.940	REFER MRSC STD DRG SD 020
46	SIDE ENTRY PIT	900	900	525	463.014	525	462.994	464.882	1.887	REFER MRSC STD DRG SD 020
				300	463.174					
46A	TANGENT POINT	0	0	525	463.084	525	463.084	464.982	1.898	CAP FOR FUTURE EXTENSION
58	JUNCTION PIT	600	900	300	462.829	300	462.809	464.160	1.351	REFER MRSC STD DRG SD 014
59	JUNCTION PIT	600	900	300	463.835	300	463.815	464.723	0.908	REFER MRSC STD DRG SD 014
60	JUNCTION PIT	600	900	150	464.306	300	464.286	465.162	0.876	REFER MRSC STD DRG SD 014
61	JUNCTION PIT	600	1050			150	464.441	465.186	0.745	REFER MRSC STD DRG SD 014
62	JUNCTION PIT	600	900	300	462.965	375	462.890	464.257	1.367	REFER MRSC STD DRG SD 014
63	JUNCTION PIT	600	900	300	463.401	300	463.381	464.587	1.206	REFER MRSC STD DRG SD 014
64	JUNCTION PIT	600	900	150	463.979	300	463.829	464.926	1.098	REFER MRSC STD DRG SD 014, PROVIDE 150Ø STUB
70	SIDE ENTRY PIT	600	900			300	461.906	463.445	1.539	REFER MRSC STD DRG SD 012
71	SIDE ENTRY PIT	600	900			300	462.185	463.700	1.515	REFER MRSC STD DRG SD 012
79	SIDE ENTRY PIT	600	900			300	462.714	464.301	1.587	REFER MRSC STD DRG SD 012
80	SIDE ENTRY PIT	600	900			300	463.054	464.707	1.653	REFER MRSC STD DRG SD 012
81	SIDE ENTRY PIT	600	1050			300	463.283	464.955	1.672	REFER MRSC STD DRG SD 020

PROPERTY INLET NOTES

- REFER MRSC STD DRG FIG SD 023 FOR PROPERTY CONNECTION TO EASEMENT DRAIN PIT.
- REFER MRSC STD DRG FIG SD 024 FOR PROPERTY CONNECTION TO EASEMENT PIPE.
- REFER MRSC STD DRG FIG SD 025 FOR PROPERTY CONNECTION TO STREET DRAINAGE.

DRAINAGE PITS & COVERS NOTES

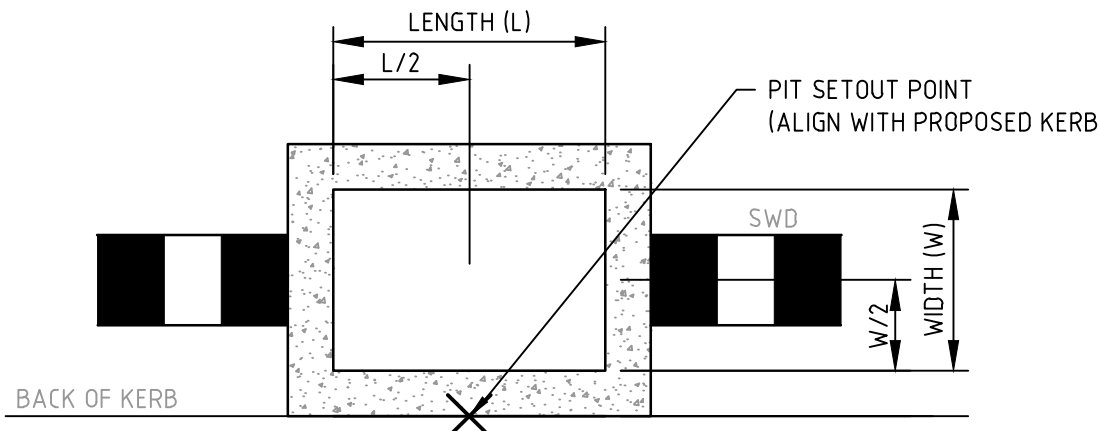
- REFER MRSC STD DRG FIG SD 012 FOR SIDE ENTRY PIT.
- REFER MRSC STD DRG FIG SD 014 FOR JUNCTION PIT.
- REFER MRSC STD DRG FIG SD 017 FOR GRATED PIT IN RESERVE CHANNELS AND PAVED AREAS.
- REFER MRSC STD DRG FIG SD 020 FOR HAUNCHED PITS FOR PIPES OVER 450mm IN DIAMETER OR PITS DEEPER THAN 2m.
- REFER MRSC STD DRG FIG SD 019 FOR PRECAST CONCRETE PIT LID & CIRCULAR INSERT 900mm x 600mm PITS.



TYPICAL DRAINAGE PIT SETOUT POINT 'A'

JUNCTION PIT / EASEMENT PIT

NOT TO SCALE



INVERT OF KERB

LIP OF KERB

TYPICAL DRAINAGE PIT SETOUT POINT 'B'

SIDE ENTRY PIT

NOT TO SCALE

PIT SETOUT CO-ORDINATES			
	POINT	EASTING	NORTHING
PIT 1	B	287058.222	5851052.746
PIT 15	A	287140.300	5851026.005
PIT 16	A	287216.168	5851015.832
PIT 17	A	287286.105	5851006.290
PIT 19	B	287050.950	5851043.879
PIT 58	A	287106.174	5850947.171
PIT 59	A	287086.706	5850873.832
PIT 60	A	287067.423	5850801.158
PIT 61	A	287080.180	5850797.773
PIT 62	A	287185.301	5850936.565
PIT 63	A	287173.441	5850891.878
PIT 64	A	287156.568	5850828.299



NOT TO SCALE



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Designed
K. KUQO
Authorised
J. SPENCER



Checked
J. KOEHLER
Date
27-06-2018

**CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
PITS SCHEDULE (SHEET 7 OF 7)
MACEDON RANGES SHIRE COUNCIL
COLANZ**

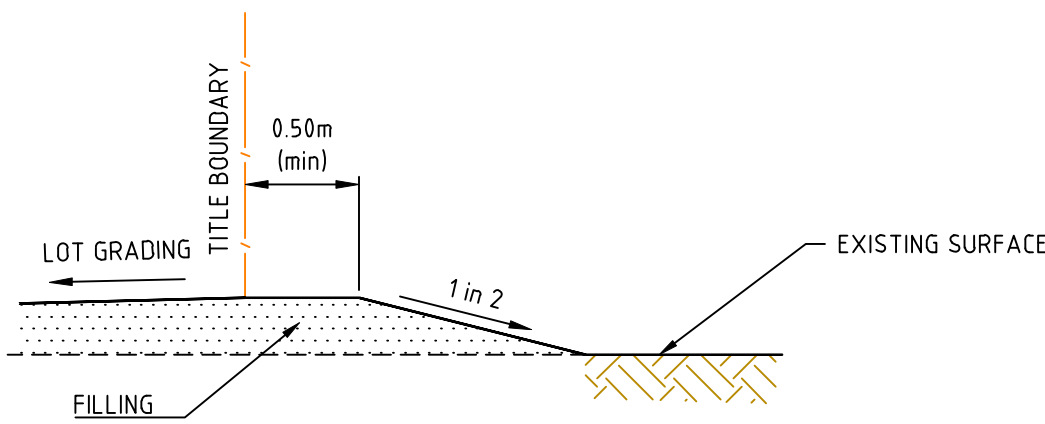
CONSTRUCTION Drg No
304849CR606

Rev
0

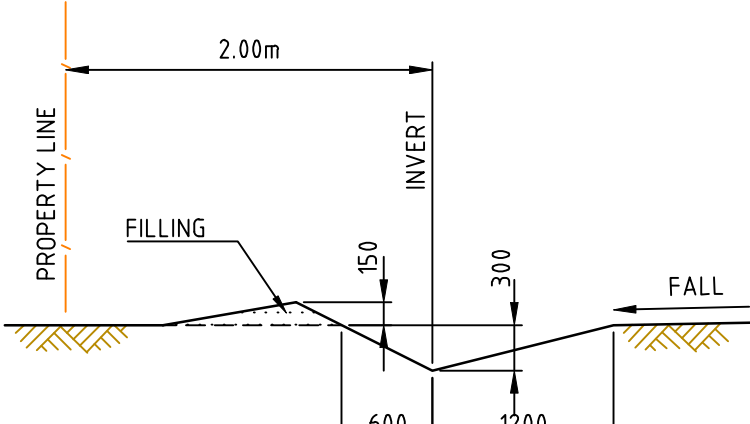
0	ISSUED FOR CONSTRUCTION, NOTE, PIT SIZE AND COORDINATES UPDATED	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18
Rev	Amendments	Approved	Date

GENERAL NOTES:

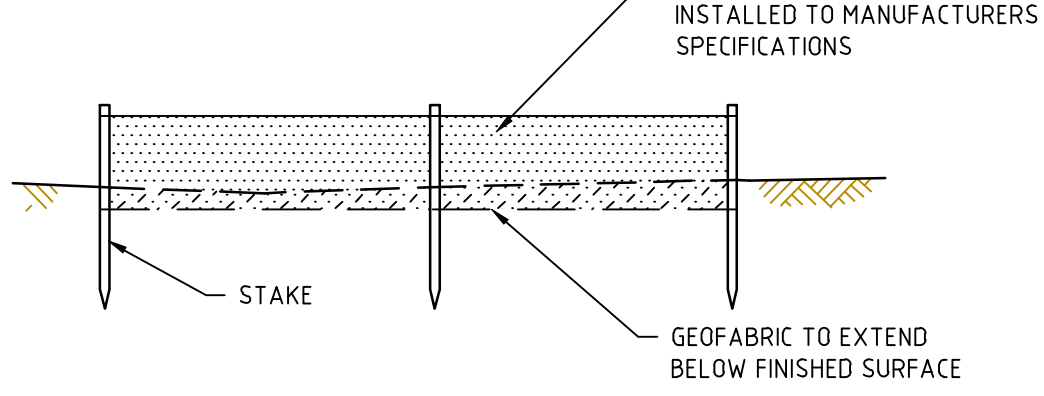
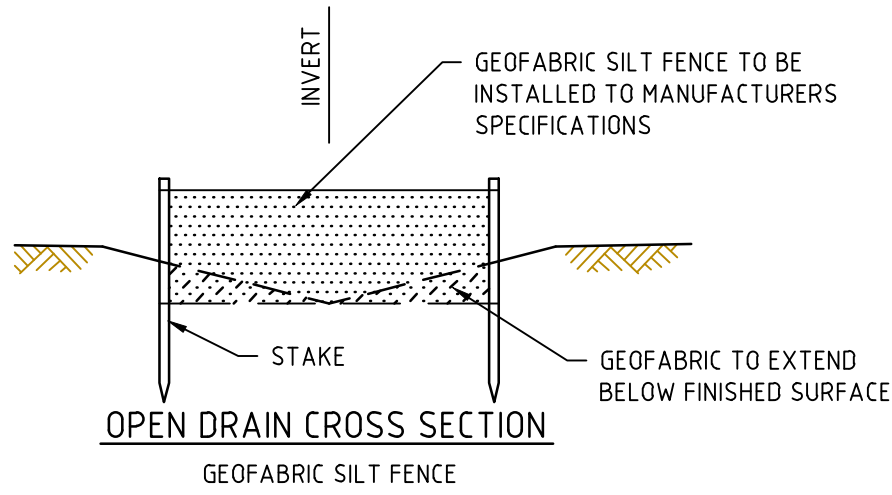
- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA- "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.
- VARIATION TO JOINT LAYOUT BY CONTRACTOR WILL NOT BE ACCEPTED WITHOUT SPECIFIC WRITTEN APPROVAL OF SUPERINTENDENT & COUNCIL.



LOT FILLING AT STAGE BOUNDARY



TYPICAL CATCH DRAIN SECTION



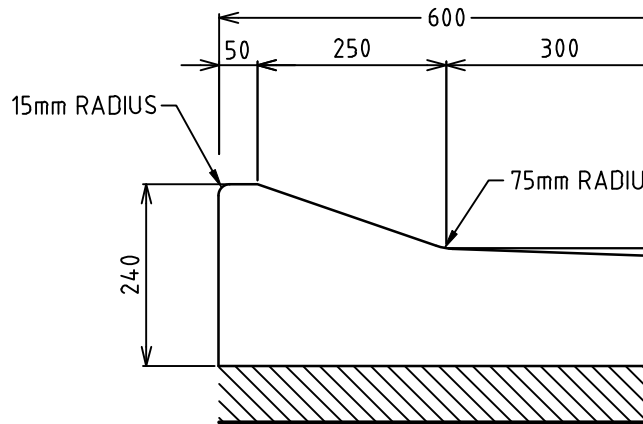
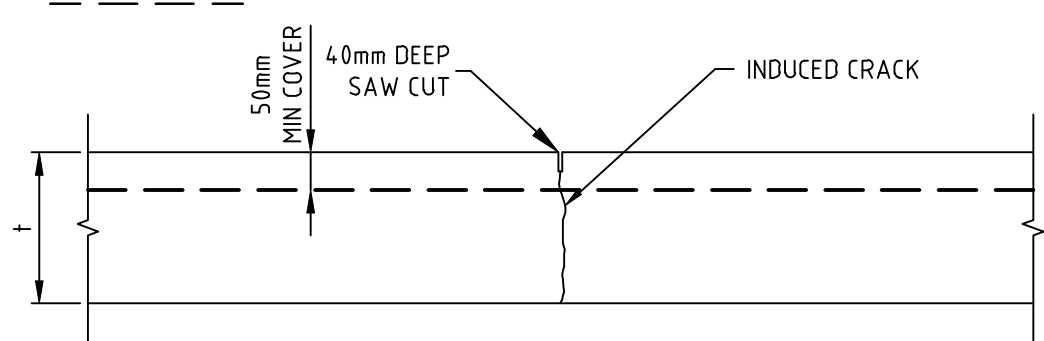
SILT CONTROL FOR LOTS

GEOFABRIC SILT FENCE

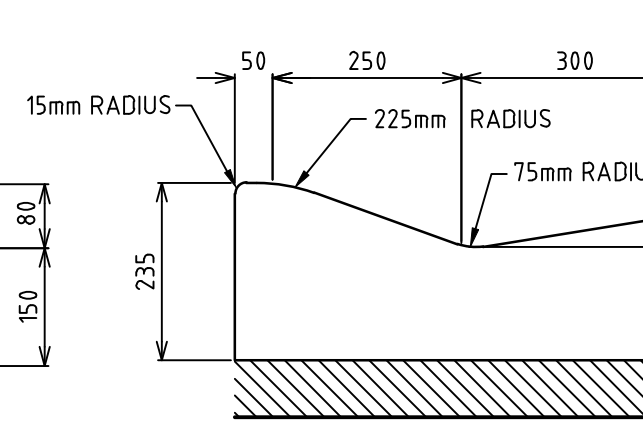
SILT CONTROL OPTIONS

NOT TO SCALE

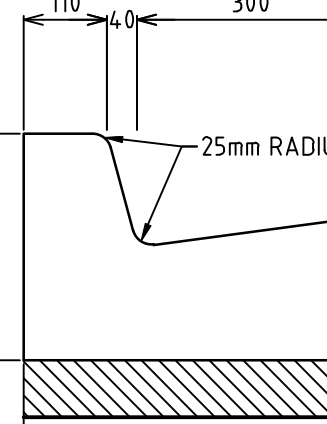
SAW CUT



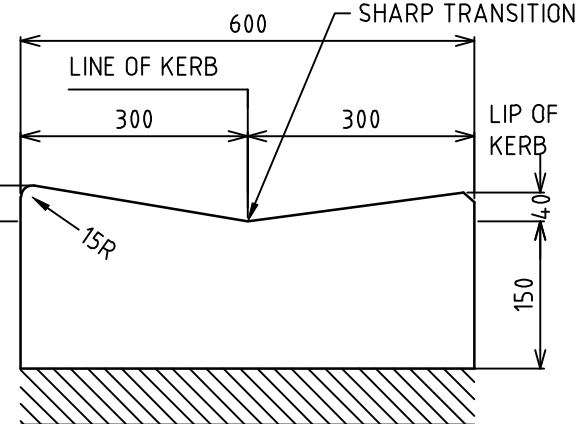
MODIFIED SM3



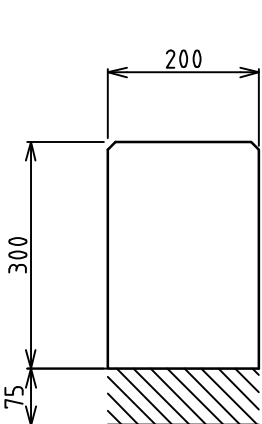
MODIFIED SM2



B2



M2



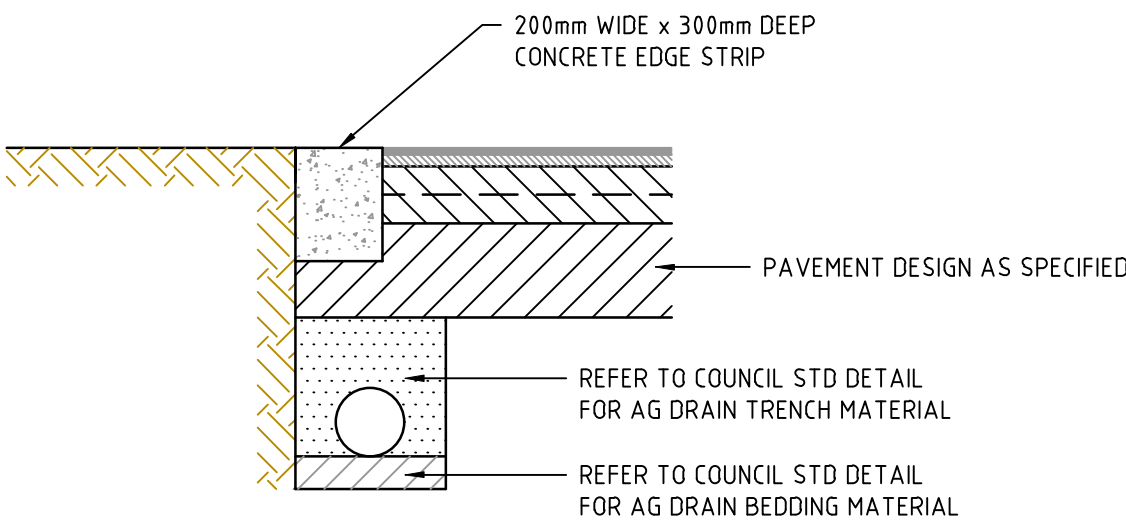
EDGE STRIP

STANDARD KERB PROFILES

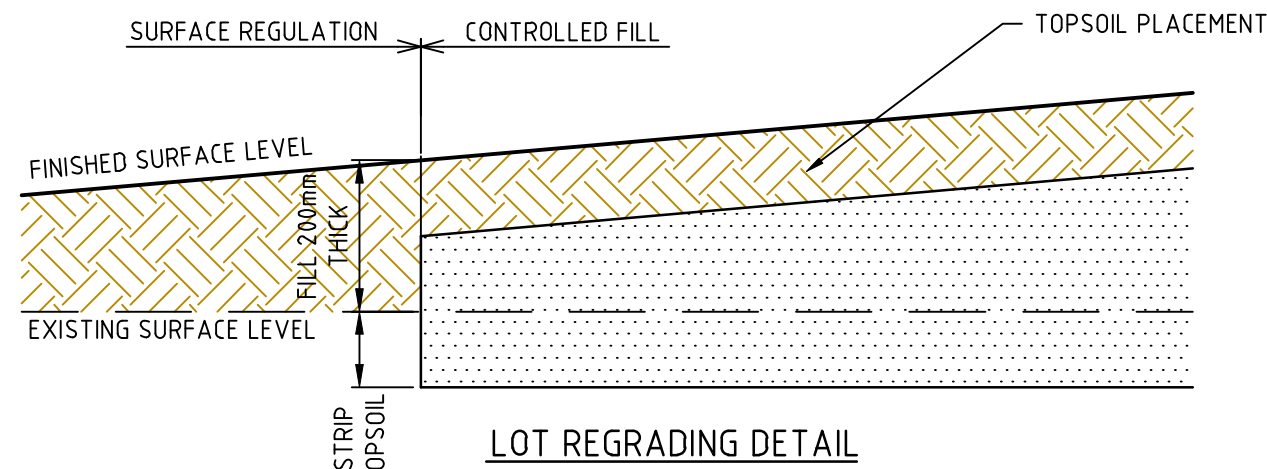
NOT TO SCALE

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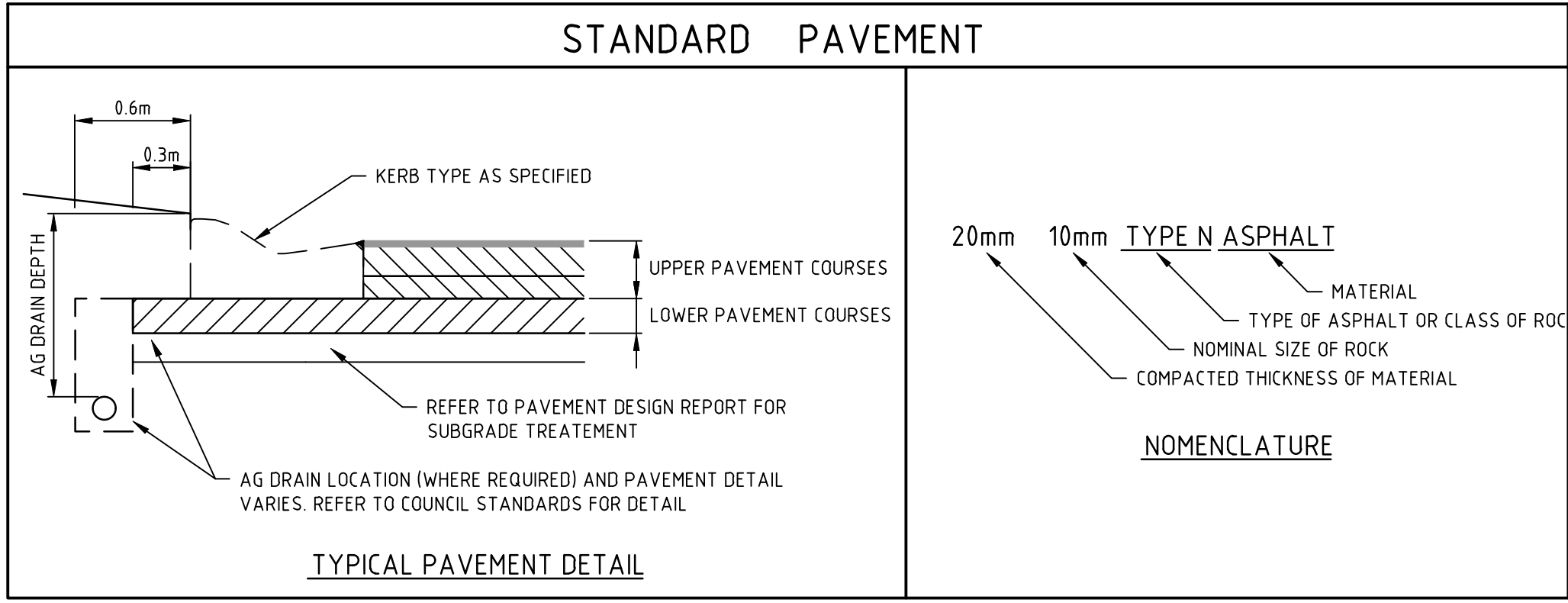
- ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
- ALL KERBS AND KERB & CHANNEL TO HAVE 205mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.



LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL



LOT REGRADING DETAIL



PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)	DEPTH (mm)	DEPTH (mm)	DEPTH (mm)
ASPHALT WEARING COURSE	SIZE 10mm TYPE N CL C170	80	30	30	20
ASPHALT BASE COURSE	SIZE 14mm TYPE N CL C 170				
	SIZE 10mm TYPE N CL C170		30	30	30
	SIZE 14mm TYPE N CL C170				
SAMI	SIZE 10 SAMI SEAL CLASS S18RF=1.8 l/m ²	10	10	10	10
PRIME	BITUMINOUS PRIME OR PRIMESEAL	Y	Y	Y	Y
BASE COURSE	SIZE 20mm CLASS 2 FCR	160	135	135	145
UPPER PAVEMENT TOTAL		250	205	205	205
UPPER SUBBASE	SIZE 20mm CLASS 3 FCR	160			
LOWER SUBBASE	SIZE 40 mm CLASS 4 FCR	160	105		
SUBBASE	SIZE 20mm CLASS 3 FCR			145	55
CAPPING LAYER/STABILIZED SUBGRADE	150mm THICK SUITABLE CAPPING LAYER AS PER VICROADS REQUIREMENTS (SWELL ≤ 1.5%, CBR > 8%AND PERMEABILITY < 1 X 10 ⁻⁹ m/sec) COMPACTED TO A MINIMUM DENSITY OF 95% OF MODIFIED COMPACTION OR STABILIZE EXISTING SUBGRADE TO MINIMUM 300mm DEPTH WITH MINIMUM 3% LIME CONTENT (MINIMUM CBR > 10%).	150	150	150	150
SUBGRADE	MATERIAL AS FOUND, SILTY CLAY, COMPACTED TO A MINIMUM DENSITY RATIO 98%	-	-	-	-
TOTAL PAVEMENT DEPTH		720	560	500	410

ROAD NAME	TYPE
FERRIER ROAD	A
BLANCHE DRIVE	B
EUGENIE GROVE	C
BETTY WAY	C
ELSA TERRACE	C
MURIEL TERRACE	B
PARKING BAYS	D

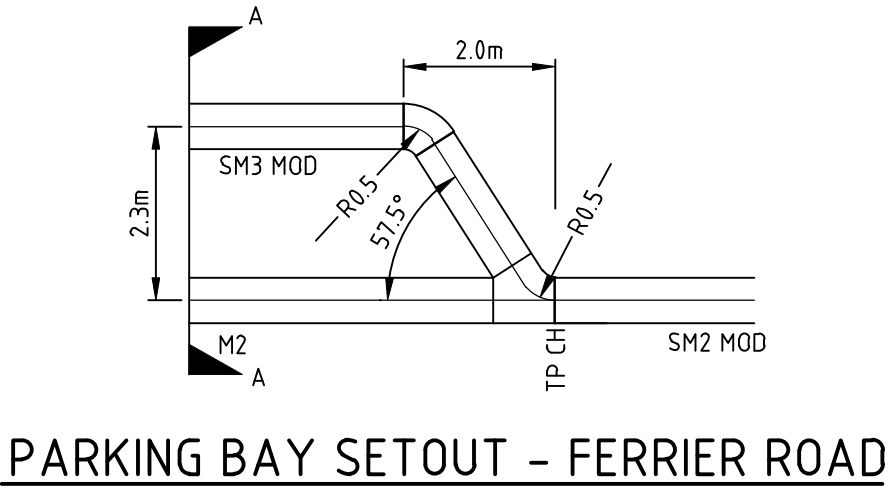
PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HAVE BEEN DESIGNED/PROVIDED BY GEOTESTA PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF GEOTESTA PTY LTD.

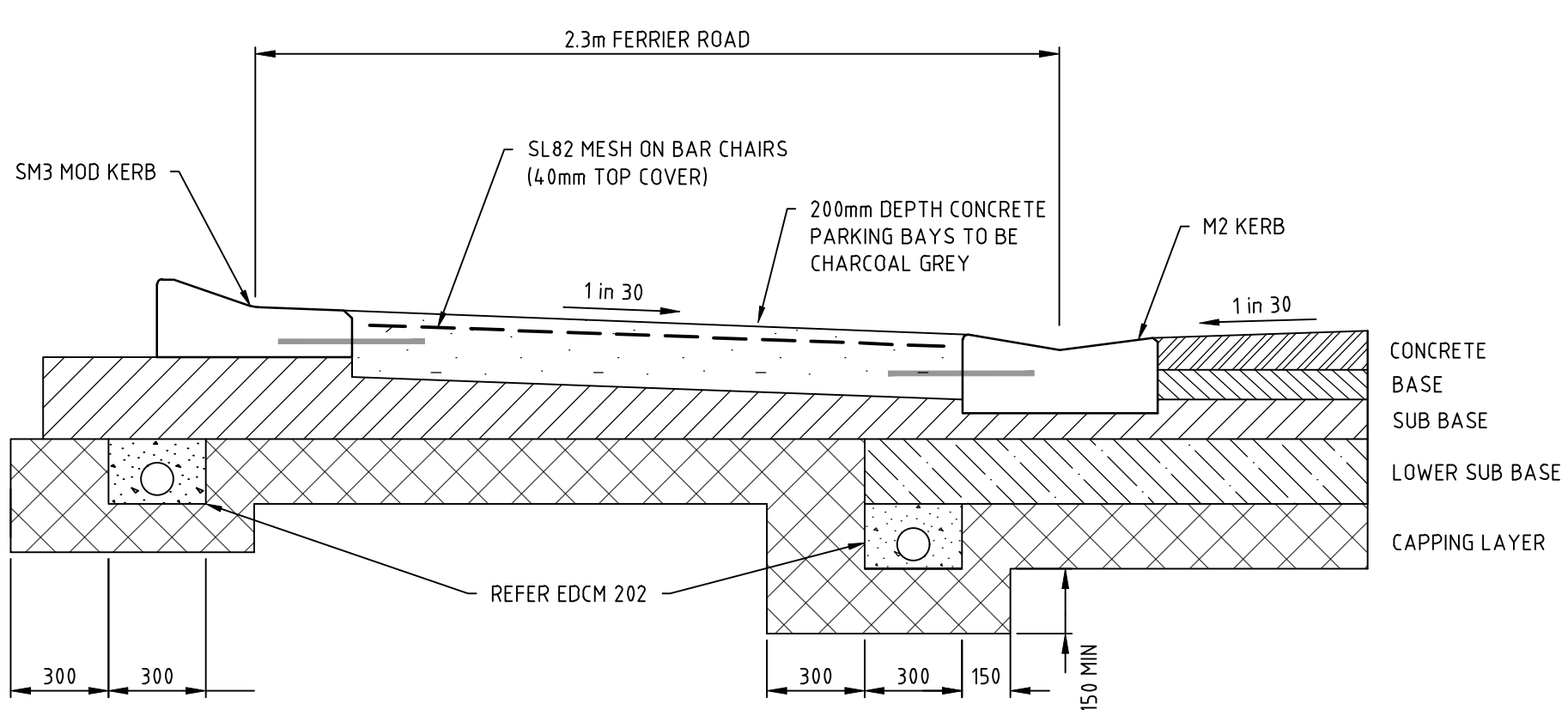
THE DESIGN HAS BEEN EXTRACTED FROM THE GROUND SCIENCE PTY LTD REPORT ON "CATHLAW ESTATE, NEW GISBORNE: GEOTECHNICAL INVESTIGATION REPORT FOR PROPOSED SUBDIVISION DEVELOPMENT" REF: GE3808.3-16. THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTCHNICAL WORK AND PAVEMENT DESIGNS.

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PARKING BAY SETOUT - FERRIER ROAD



TYPICAL CROSS SECTION A-A
CONCRETE PARKING BAY

NOT TO SCALE



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Authorised
J. SPENCER

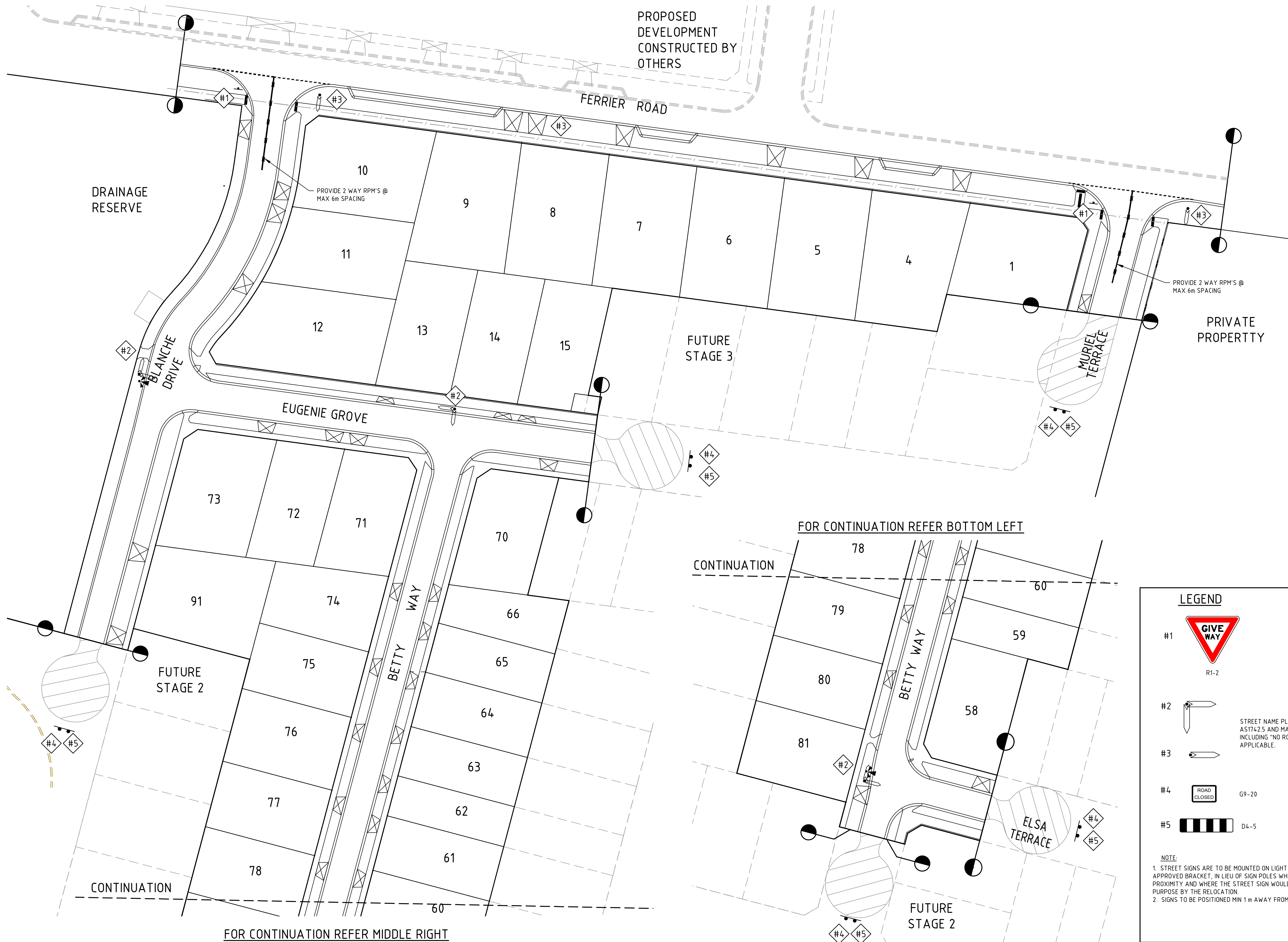


Checked
J. KOEHLER
Date
27-06-2018

CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
PAVEMENT AND TYPICAL DETAILS
MACEDON RANGES SHIRE COUNCIL
COLANZ

CONSTRUCTION Drg No 304849CR700 Rev 0

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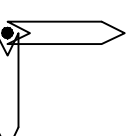


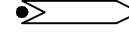
Macedon Ranges
Shire Council

APPROVED
DATE : 1/10/18
AUTHORISED OFFICER: ISTVAN MARTON

LEGEND

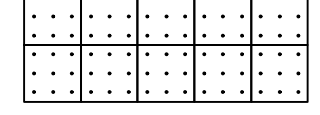
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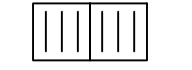
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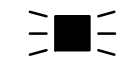
G9-20

TGS KERB RAMP

#5

D4-5

TGS DIRECTIONAL

2-WAY RRPM (6m SPACING)

NOTE:
1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.
2. SIGNS TO BE POSITIONED MIN 1m AWAY FROM BACK OF KERBS.

0	ISSUED FOR CONSTRUCTION	J.P.	31-08-18
B	ISSUED TO COUNCIL	J.S.	27-06-18
A	ISSUED FOR APPROVAL	JS	28-02-18
Rev	Amendments	Approved	Date

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**CATHLAW ON FERRIER
STAGE 1
ROAD & DRAINAGE
SIGNAGE & LINEMARKING**
MACEDON RANGES SHIRE COUNCIL
COLANZ

CONSTRUCTION Drg No
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