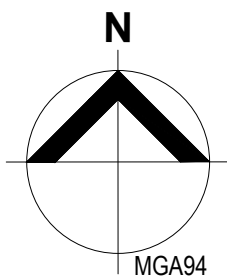
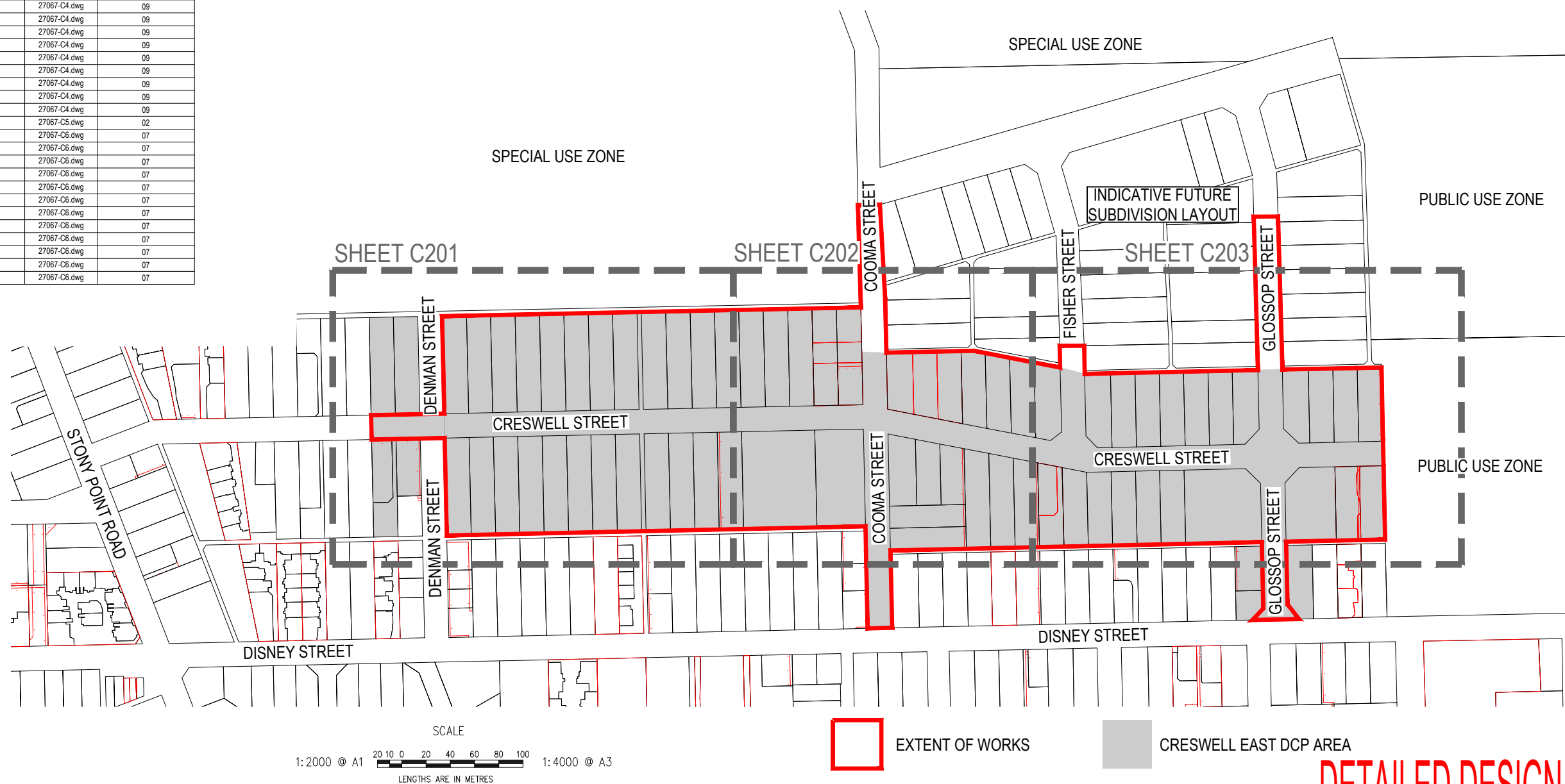


CRESWELL STREET EAST, CRIB POINT ROAD, DRAINAGE & ASSOCIATED SERVICES



DRAWING INDEX			
SHEET NO.	TITLE	CAD FILE	VERSION NO.
C101	LOCALITY PLAN AND DRAWING INDEX	27067-C1.dwg	10
C102	NOTES	27067-C1.dwg	10
C103	TYPICAL CROSS SECTIONS AND SERVICE OFFSET TABLE	27067-C1.dwg	10
C201	DETAIL PLAN	27067-C2.dwg	10
C202	DETAIL PLAN	27067-C2.dwg	10
C203	DETAIL PLAN	27067-C2.dwg	10
C204	DETAIL PLAN	27067-C2.dwg	10
C301	ROAD LONGITUDINAL SECTIONS - CRESWELL ST	27067-C3.dwg	06
C302	ROAD LONGITUDINAL SECTIONS - CRESWELL ST	27067-C3.dwg	06
C303	ROAD LONGITUDINAL SECTIONS - CRESWELL ST	27067-C3.dwg	06
C304	ROAD LONGITUDINAL SECTIONS - COOMA ST, GLOSSOP ST	27067-C3.dwg	06
C401	ROAD CROSS SECTIONS - CRESWELL ST	27067-C4.dwg	09
C402	ROAD CROSS SECTIONS - CRESWELL ST	27067-C4.dwg	09
C403	ROAD CROSS SECTIONS - CRESWELL ST	27067-C4.dwg	09
C404	ROAD CROSS SECTIONS - CRESWELL ST	27067-C4.dwg	09
C405	ROAD CROSS SECTIONS - CRESWELL ST	27067-C4.dwg	09
C406	ROAD CROSS SECTIONS - CRESWELL ST	27067-C4.dwg	09
C407	ROAD CROSS SECTIONS - CRESWELL ST	27067-C4.dwg	09
C408	ROAD CROSS SECTIONS - CRESWELL ST	27067-C4.dwg	09
C409	ROAD CROSS SECTIONS - CRESWELL ST	27067-C4.dwg	09
C410	ROAD CROSS SECTIONS - COOMA ST	27067-C4.dwg	09
C411	ROAD CROSS SECTIONS - COOMA ST	27067-C4.dwg	09
C412	ROAD CROSS SECTIONS - GLOSSOP ST	27067-C4.dwg	09
C413	ROAD CROSS SECTIONS - GLOSSOP ST	27067-C4.dwg	09
C414	ROAD CROSS SECTIONS - GLOSSOP ST	27067-C4.dwg	09
C501	INTERSECTION DETAIL	27067-C5.dwg	02
C601	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C602	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C603	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C604	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C605	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C606	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C607	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C608	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C609	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C610	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C611	DRAINAGE LONGITUDINAL SECTIONS	27067-C6.dwg	07
C612	PIT SCHEDULE	27067-C6.dwg	07



DETAILED DESIGN

- 1

2

3

4

5

6

7

8

9
- 1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30
- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH AS2124--1992 GENERAL CONDITIONS OF CONTRACT, THE CURRENT MORNINGTON PENINSULA SHIRE SPECIFICATIONS AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF THE SUPERINTENDENT.

THE MORNINGTON PENINSULA SHIRE AND ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING A MINIMUM OF SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF ANY WORKS.

ALL LEVELS SHOWN ARE TO A.H.D. AND DIMENSIONS IN METRES UNLESS OTHERWISE NOTED.

UPON COMMENCEMENT OF CONSTRUCTION WORKS THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL".

THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS ARE APPROXIMATE AND THEIR EXACT LOCATION SHALL BE PROVEN ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORKS. DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT

UNDERGROUND GAS, TELSTRA, ELECTRICITY, SEWER & WATER ASSETS EXIST WITHIN THE SCOPE OF THESE WORKS. ANY DAMAGE CAUSED TO EXISTING SERVICES AND ANY COSTS ASSOCIATED WITH REPAIRS OR LOSS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

UNLESS OTHERWISE SHOWN NO TREES SHALL BE REMOVED OR TRIMMED WITHOUT THE PRIOR CONSENT OF THE SUPERINTENDENT. REFER "PRELIMINARY BIODIVERSITY ASSESSMENT FOR THE PLANNED DEVELOPMENT OF CRESWELL STREET EAST, CRIB POINT, VICTORIA" CONDUCTED BY ABZECO (MARCH 2021) FOR FURTHER FLORA INFORMATION.

ALL STORMWATER AND CONDUIT TRENCHES UNDER ROAD PAVEMENT AND/OR KERB & CHANNEL AND/OR CONCRETE PAVING SHALL BE BACKFILLED WITH 20mm CLASS 3 F.C.R AS SPECIFIED, AND COMPACTED IN 150mm LAYERS.

THE CONTRACTOR IS TO ENSURE THAT A MINIMUM OF 300mm OF FCR IS PLACED OVER ALL DRAINAGE PIPES UNDER TRAFFICABLE AREAS DURING CONSTRUCTION.

ALL STORMWATER DRAINAGE PIPES SHALL BE CLASS '2' R.C.P. AND RUBBER RING JOINTED UNLESS OTHERWISE SPECIFIED.

ALL STORMWATER DRAINAGE PITS AND PROPERTY CONNECTIONS etc ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE MORNINGTON PENINSULA SHIRES STANDARD DRAWINGS & SPECIFICATION.

THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL RUBBISH AND SPOIL FROM THE SITE.

NO TOPSOIL SHALL BE REMOVED FROM THE SITE WITHOUT CONSENT FROM THE THE SUPERINTENDENT.

EARTHWORKS SHALL BE CARRIED OUT TO DESIGN LEVELS SHOWN ON CONSTRUCTION ISSUE PLANS. CUT BATTERS TO BE 1 IN 3, FILL BATTERS 1 IN 6 UNLESS SHOWN OTHERWISE.

FILL AREAS GREATER THAN 200mm SHALL BE STRIPPED OF TOP SOIL AND VEGETATION, APPROVED FILL MATERIAL PLACED AND TOPSOILED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON CONSTRUCTION ISSUE PLANS.

FILL MATERIAL TO BE PLACED IN 150mm LAYERS AND COMPACTED TO MINIMUM 95% DRY DENSITY (STANDARD COMPACTION TEST)

STRUCTURAL FILL MATERIAL IS TO BE APPROVED BY COUNCIL PRIOR TO PLACEMENT. LEVEL 1 GEOTECHNICAL SUPERVISION IS TO BE MAINTAINED TO AS3798-1996, COMPACTED IN 150mm LAYERS ALL AS SPECIFIED.

ALL FILL, NATURE STRIPS, VERGES, BATTERS AND DISTURBED AREAS SHALL BE TOPSOILED WITH 75mm MINIMUM DEPTH OF APPROVED LOAM AND SOWN WITH SEED, ALL AS SPECIFIED.

EARTHWORKS WITHIN ROAD RESERVES SHALL BE TESTED TO THE REQUIREMENTS AND SATISFACTION OF THE MORNINGTON PENINSULA SHIRE COUNCIL. THE CONTRACTOR SHALL ENGAGE THEIR OWN 'NATA' REGISTERED GEOTECHNICAL ENGINEER TO CARRY OUT TESTS IN ACCORDANCE WITH AS3798 AND AS1289 AND SHALL SUPPLY TEST RESULTS CONFIRMING WITH THE PROJECT SPECIFICATION. FREQUENCY OF TESTS WILL BE PROVIDED IN ACCORDANCE WITH AS3798. TEST RESULTS TO BE REVIEWED BY THE MORNINGTON PENINSULA SHIRE COUNCIL, AND IF NECESSARY ADDITIONAL TESTS WILL BE SUPPLIED TO THE SUPERINTENDENT SATISFACTION. REFER TO "TECHNICAL REPORT 201859 CRESWELL ST/1" CONDUCTED BY LR PARDO & ASSOCIATES (12/02/21) FOR FURTHER INFORMATION.

PRE MIX CONCRETE TO HAVE A 28 DAY STRENGTH OF 25MPa UNLESS OTHERWISE NOTED.

ALL KERB & CHANNEL TO BE IN ACCORDANCE WITH MORNINGTON PENINSULA SHIRE STANDARD DRAWINGS.

ALL LAYBACKS & PRAM CROSSINGS TO BE IN ACCORDANCE WITH MORNINGTON PENINSULA SHIRE STANDARD DRAWINGS.

UNLESS OTHERWISE SHOWN ALL CHAINAGES SHOWN ARE TO THE DESIGN CENTRE LINE OF ROAD PAVEMENT.

ALL KERB RADII SHOWN ARE TO LIP OF KERB ie R7.0.

THE CONTRACTOR SHALL ERECT AND IS RESPONSIBLE FOR MAINTAINING ALL SHORING, PLANKING, STRUTTING, DEWATERING, BARRICADES, WARNING SIGNS, LIGHTS etc NECESSARY TO KEEP THE WORK SITE SAFE AND TO PROTECT THE PUBLIC FROM THE WORKS.

ALL LINEMARKING AND SIGNAGE IS TO BE INSTALLED IN ACCORDANCE WITH AS1742-1 AND AS1742-2 UNLESS LINEMARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT.

THE PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH, AND MAY BE VARIED BY THE SUPERINTENDENT. WHERE DIRECTED SOFT SPOTS SHALL BE EXCAVATED TO A HARD BASE AND BACKFILLED WITH APPROVED GRANULAR MATERIAL IN 150mm LAYERS.

THE SUBGRADE OF ALL PAVEMENTS SHALL BE APPROVED BY COUNCIL'S SUPERINTENDENT PRIOR TO PLACEMENT OF ANY SUBSEQUENT PAVEMENT COURSE. PROOF ROLLING AND COMPACTION TESTING OF EACH PAVEMENT LAYER SHALL BE IN ACCORDANCE WITH AS3798 AND AS1289 AND SHALL MEET THE FOLLOWING STANDARDS:

-ASPHALT LAYERS < 50mm

94.5% MEAN DENSITY RATIO, 93% CHARACTERISTIC DENSITY RATIO

-ASPHALT LAYERS > 50mm

96% MEAN DENSITY RATIO, 95% CHARACTERISTIC DENSITY RATIO

-BASE LAYER

98% MODIFIED DRY DENSITY

-SUB BASE LAYER

95% MODIFIED DRY DENSITY

-SUB GRADE LAYER

95% STANDARD DRY DENSITY

COMPACTION TEST RESULTS SHALL BE FORWARDED TO COUNCIL SUPERINTENDENT FOR APPROVAL PRIOR TO PLACEMENT OF SUBSEQUENT PAVEMENT LAYERS.

ALL ROADS USED BY TRUCKS AND CONSTRUCTION EQUIPMENT ARE TO BE KEPT CLEAN AT ALL TIMES TO THE SATISFACTION OF THE SUPERINTENDENT

THE CONTRACTOR SHALL ENSURE THAT DUST PRODUCED FROM THE SITE SHALL BE KEPT TO A MINIMUM, AND NOT CAUSE A NUISANCE TO ANY THIRD PARTY.

- 1

2

3

4

5

6

7

8

9
- 31

32

33

34

35

36

37

38

39

40

41

42

43
- THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO SURROUNDING ALLOTMENTS OR PROPERTIES MUST BE MADE GOOD.

UPON THE COMPLETION OF WORKS THE CONTRACTOR IS TO CLEAN UP AND FLUSH ALL DRAINAGE PIPES TO THE SATISFACTION OF THE SUPERINTENDENT

WHERE A DISCREPANCY MAY ARISE BETWEEN THE CONSTRUCTION ISSUE PLANS AND THE PROJECT SPECIFICATION, THE SPECIFICATION TAKES PRECEDENCE. SUCH DISCREPANCY'S MUST BE REPORTED TO THE SUPERINTENDENT.

A CCTV INSPECTION REPORT OF CONSTRUCTED DRAINAGE SHALL BE SUBMITTED TO THE SUPERINTENDENT PRIOR TO CONSTRUCTION OF WEARING COURSE ASPHALT.

EXISTING SERVICE CONDUITS FOR GAS, WATER AND ELECTRICITY ARE TO BE REFERENCED IN 50mm HIGH LETTERS ON THE FACE OF KERB AND CHANNEL MARKED WITH EITHER 'G', 'W', OR 'E' ACCORDINGLY.

EXISTING PROPERTY SERVICE TAPPINGS FOR GAS & WATER ARE TO BE LOCATED BY HAND EXCAVATION PRIOR TO THE COMENCEMENT OF ROAD BOXING OUT. ANY DISCREPANCY'S WITH THE DESIGN MUST BE REPORTED TO THE SUPERINTENDENT

ORIGIN ENERGY'S "RECORDS OF UNDERGROUND MAINS AND PROTECTION OF ASSETS" STATEMENT SHALL BE READ AND COMPLIED WITH DURING THE CONSTRUCTION WORKS. IT IS NOTED THAT THE FOLLOWING MINIMUM CLEARANCES FROM ORIGIN ENERGY'S RETICULATION MAINS AND SERVICES SHOULD BE MAINTAINED.

- 150mm when crossing gas mains with installations up to 1.50 metres wide.

- 300mm when crossing gas mains with installations greater than 1.50 metres wide.

- 300mm when installations are laid parallel to gas mains. (Excluding electrical underground cables).

- 600mm between all gas mains and earthing stakes.

- 300mm between all domestic gas services and parallel electrical underground cables.

- 1000mm between all gas mains and parallel electrical underground cables.

EXISTING SOUTH EAST WATER ASSETS EXIST WITHIN THE PROPOSED SCOPE OF WORKS, AND THE FOLLOWING CONDITIONS ARE TO BE COMPLIED AND ADHERED WITH:

WATER

- Minimum cover required over water mains during construction is 450mm.

- The minimum final cover over water mains is 450mm (nature strips), 600mm (sealed roads), 750mm (major roads), 1200mm (freeways) the location and depth of water mains is to be proved by hand excavation prior to the commencement of the works where required;

- The minimum verticle clearance between water mains and drains is 150mm.

- Drains crossing over water mains are to be designed as a pier and beam arrangement.

- The minimum horizontal clearance between water mains and other assets (including street furniture and kerb and channel) is 450mm.

- Surface fittings are to be accessible at all times to allow for emergency shut down of the mains and all surface fittings must be raised to suit finished surface levels.

- Where there is a requirement to adjust surface fittings, please contact SEW

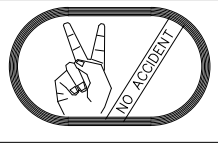
EXISTING TELSTRA TELECOMMUNICATION ASSETS EXIST WITHIN THE PROPOSED SCOPE OF WORKS. IT IS RECOMMENDED THAT A "DIAL BEFORE YOU DIG - Phone 1100" SERVICES ASSET SEARCH BE DONE TO ASCERTAIN THE APPROXIMATE LOCATION & PLANS OF SERVICES PRIOR TO COMMENCEMENT OF WORKS. PLEASE GIVE AT LEAST 2 DAYS NOTICE. TELSTRA'S SUBSEQUENT "PLANT LOCATION DETAILS" & "DUTY OF CARE" STATEMENT IS TO BE READ AND ADHERED TO DURING THE CONSTRUCTION WORKS. FOR FURTHER ON SITE DETAILS PLEASE CONTACT TELSTRA.

EXISTING MELBOURNE WATER ASSETS EXIST WITHIN THE PROPOSED SCOPE OF WORKS. IN ACCORDANCE WITH MELBOURNE WATER REQUIREMENTS, THE CIVIL CONTRACTOR SHALL MAKE A "WORK PERMIT" APPLICATION TO MW AS NECESSARY AND COMPLY WITH ALL MW WORK CONDITIONS IMPOSED.

REFER TO NBN DEVELOPMENT APPLICATION AND DRAWINGS "STG-W000251190" FOR FURTHER INFORMATION REGARDING PROPOSED NBN ALIGNMENT.

REFER TO UNITED ENERGY CONTESTABLE WORKS AGREEMENT "350007522-UED-CUE-000266" AND UNITED ENERGY DRAWINGS "UE15/4000266" FOR FURTHER INFORMATION REGARDING PROPOSED ELECTRICAL INFRASTRUCTURE.

REFER TO SOUTH EAST WATER "DEVELOPMENT DEED CASE NUMBER 41210230 FILE 22PD9950" FOR AGREEMENT OF PROPOSED DRINKING WATER SERVICES. REFER TO JCA LAND CONSULTANTS "WATER PLAN 27067" FOR PROPOSED ALIGNMENT.



THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR AND AT ALL TIMES PROVIDE A SAFE WORKING ENVIRONMENT IN THE VICINITY OF THE SITE OF WORKS IN FULL COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.



JCA Land Consultants

Surveying - Engineering - Town Planning

Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

Quality Management System
ISO 9001
trust-mark.com®

WARNING

BEWARE - UNDERGROUND SERVICES

THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

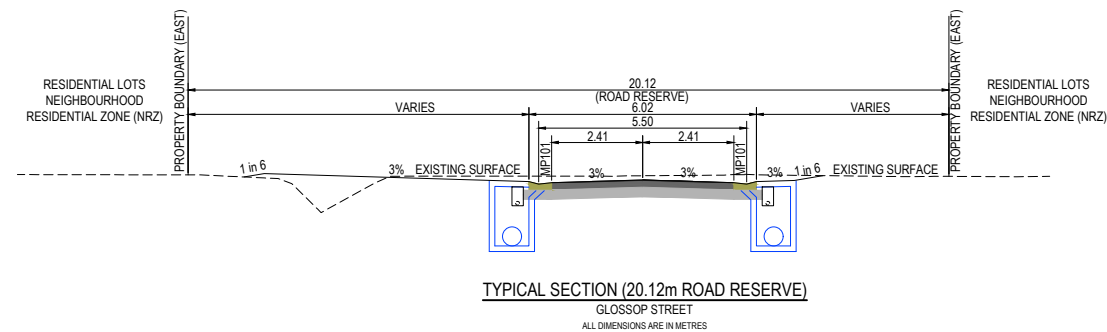
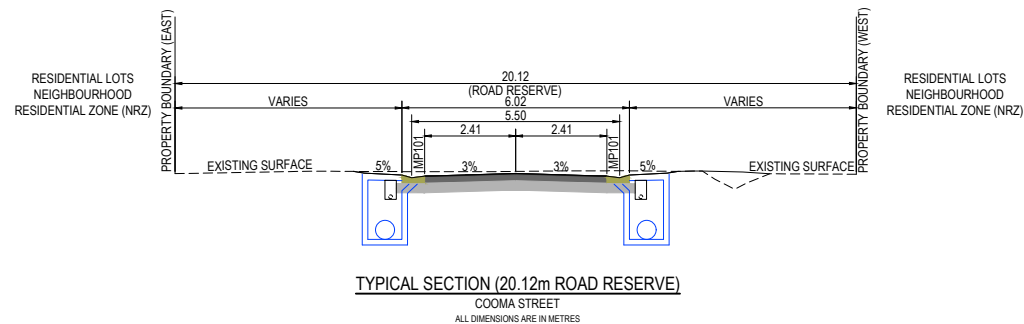
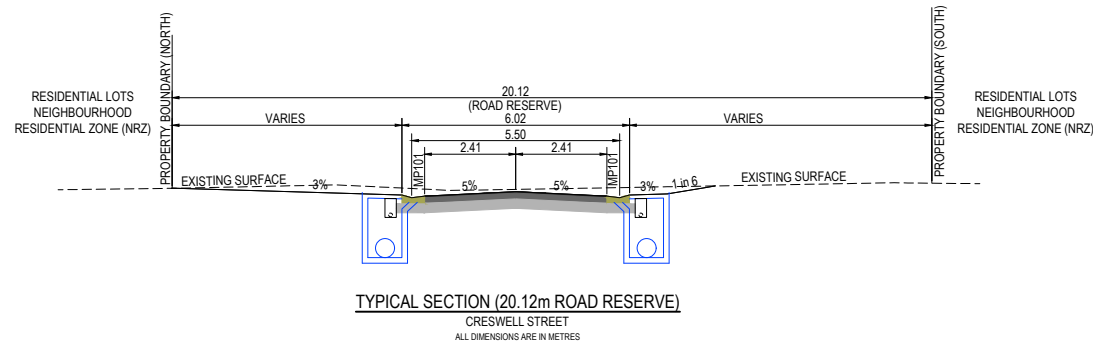
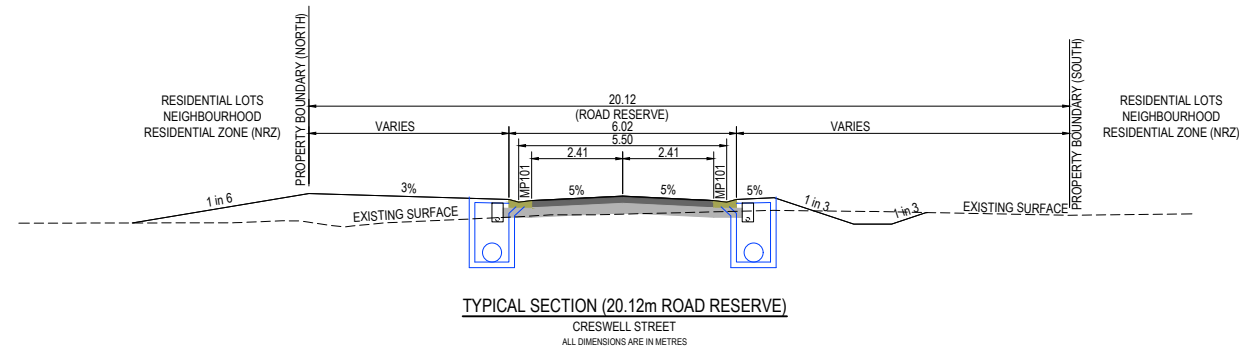
PLAN APPROVED		COMPUTER REFERENCE	
SIGNED _____	K 20.05.26	RP	AMENDED TREE RETENTION INFORMATION
	J 06.03.26	AC	COOMA STREET CONCRETE PAVEMENT
	I 05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
	H 23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
	G 27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
	F 30.07.25	AC	AMENDED DESIGN SCOPE COOMA ST
	E 20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
	D 29.07.24	ZG	AMENDED DETAILED DESIGN
	No	DATE	BY
	DRAWING REVISION DETAILS		
DEREK ROTTER MANAGER		PROJECT DELIVERY	



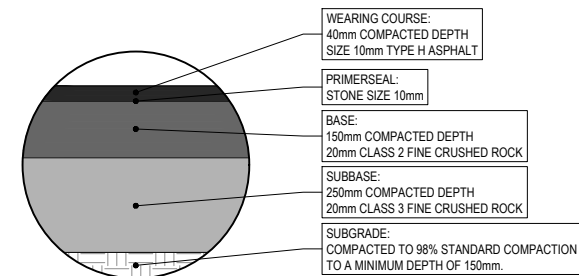
CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST – CRIB POINT
ROAD UPGRADE
NOTES

DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C102
PLAN REF No.	REV
27067	09

DETAILED DESIGN



SERVICE OFFSET TABLE											
STREET	NBN COMMUNICATIONS		O/H ELECTRICITY		WATER		GAS		ROAD RESERVE	NATURE STRIP (WIDTH TO BACK OF KERB)	ROADWAY WIDTH (WIDTH TO INVERT OF KERB)
	SIDE	OFFSET FROM BL	SIDE	OFFSET FROM BL	SIDE	OFFSET FROM BL	SIDE	OFFSET FROM BL	WIDTH	WIDTH	WIDTH
CRESWELL STREET (DENMAN ST TO COOMA ST)	S	1.8	N	VARIES	N	4.1	S	2.3	20.12	VARIES	5.50
CRESWELL STREET (COOMA ST TO GLOSSOP ST)	S	2.8	N	VARIES	N	4.0	S	3.3	20.12	VARIES	5.50
COOMA STREET	W	1.8	W	VARIES	N/A	N/A	N/A	N/A	20.12	VARIES	5.50
GLOSSOP STREET	E	1.8	W	VARIES	N/A	N/A	N/A	N/A	20.12	VARIES	5.50



FLEXIBLE PAVEMENT COMPOSITION
ALL INTERNAL ROADS
(450mm TOTAL DEPTH)
NOT TO SCALE

NOTE:
• REFER TO TECHNICAL REPORT GEOENVIRONMENTAL INVESTIGATION AND PAVEMENT DESIGN 201859 CRESWELL ST/1 LR PARDO & ASSOCIATES (12/02/2021)
• LAYER DEPTH HAS BEEN ADJUSTED TO MATCH KERB DEPTH OF 200mm


THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR AND AT ALL TIMES PROVIDE A SAFE WORKING ENVIRONMENT IN THE VICINITY OF THE SITE OF WORKS IN FULL COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.


WARNING
OPTICAL FIBRE
IN AREA


Surveying - Engineering - Town Planning
Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au


Quality Management System
ISO 9001
trust-mark.com®

WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS


DIAL BEFORE YOU DIG
www.1100.com.au
The Essential First Step

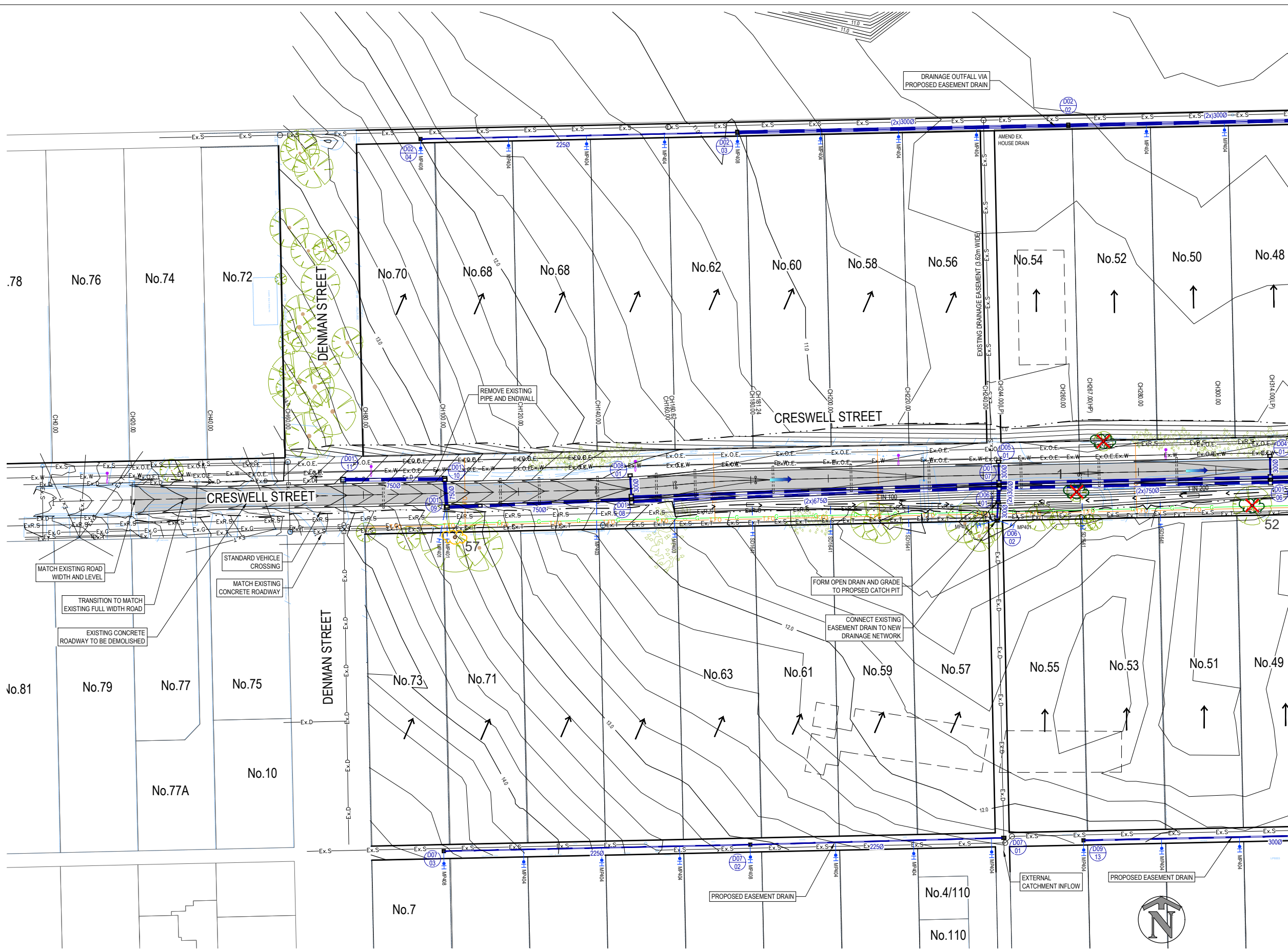
PLAN APPROVED		COMPUTER REFERENCE	
K	20.05.26	RP	AMENDED TREE RETENTION INFORMATION
J	06.03.26	AC	COOMA STREET CONCRETE PAVEMENT
I	05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
H	23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
G	27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
F	30.07.25	AC	AMENDED DESIGN SCOPE COOMA ST
E	20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
D	29.07.24	ZG	AMENDED DETAILED DESIGN
DRAWING REVISION DETAILS		CHECKED:	
No	DATE	BY	

COMPUTER REFERENCE	
PROJECT QA:	TBA
CONTRACT CN:	TBA
CIVIL 3D DWG:	27067_C1
SURVEY:	JCA
DESIGN:	AC (JCA)
DRAWN:	AC (JCA)
CHECKED:	SP (JCA)


MORNINGTON PENINSULA
Shire

CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST - CRIB POINT
ROAD UPGRADE
TYPICAL CROSS SECTIONS AND SERVICE OFFSET TABLE

DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C103
PLAN REF No.	27067
REV	09



- LEGEND**
- Ex.W — EXISTING WATER
 - Ex.E — EXISTING ELECTRICITY
 - Ex.T — EXISTING TELECOMMUNICATIONS
 - Ex.S — EXISTING SEWER
 - Ex.D — EXISTING DRAIN
 - W — WATER
 - E — ELECTRICITY
 - T — TELECOMMUNICATIONS
 - S — SEWER
 - G — GAS
 - EXISTING MAJOR CONTOUR (1.0m)
 - EXISTING MINOR CONTOUR (0.2m)
 - LOCAL DRAINAGE
 - FLOW DIRECTION
 - DIRECTION OF LOT FALL
 - TREE TO BE REMOVED
 - TREE RETAINED WITH SPECIFIC ARBORIST CONTROL (REFER ARBORIST SURVEY REPORT R7252_4)
 - H — HOUSE CONNECTION
 - H — HOUSE CONNECTION W/ CONC. SURROUND
 - STREET NAME SIGN
 - ROAD SIGN
 - PROPOSED SWALE
 - BATTER EXTENTS
 - WATER/GAS CONDUIT

CONTINUED ON SHEET C202

DETAIL PLAN
10 5 0 10 20 1:500
Original sheet size A1

JCA Land Consultants
Surveying - Engineering - Town Planning
Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



PLAN APPROVED	
SIGNED -----	
DEREK ROTTER MANAGER PROJECT DELIVERY	#### -----

SIGNED	DEREK RITTER MANAGER PROJECT DELIVERY
COMPUTER REFERENCE	PROJECT QA: TBA CONTRACT CN: TBA CIVIL 3D DWG: 27067_C2 SURVEY: JCA DESIGN: AC (JCA) DRAWN: AC (JCA) CHECKED: SP (JCA)

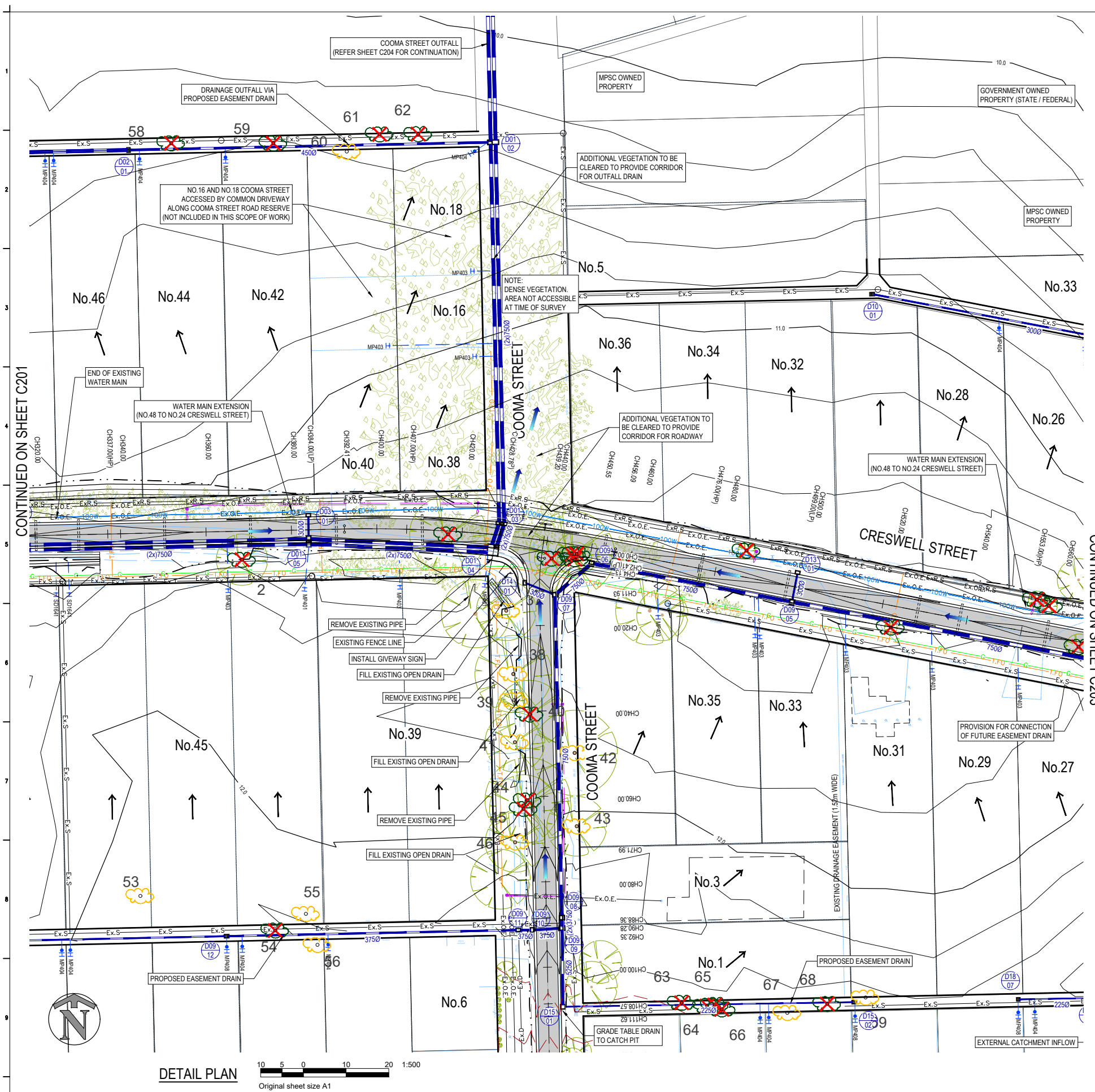


CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST - CRIB POINT
ROAD UPGRADE
DETAIL PLAN

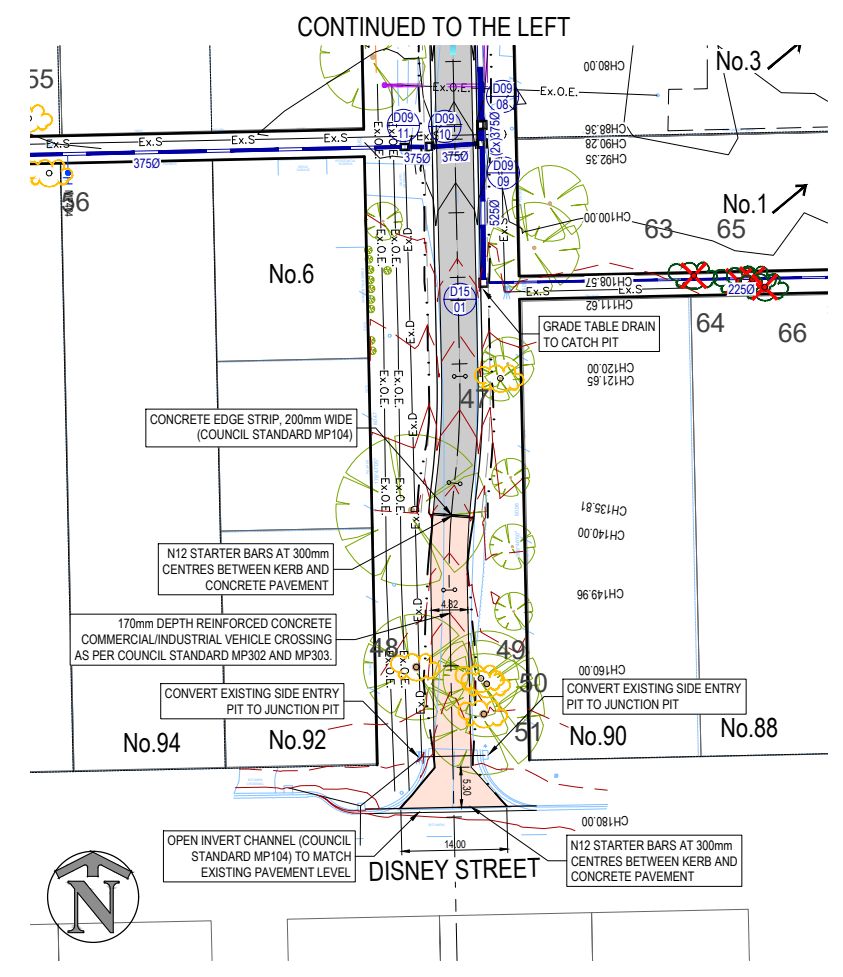
DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C201
PLAN REF No.	27067
REV	09

DETAILED DESIGN





- LEGEND**
- Ex.W— EXISTING WATER
 - Ex.E— EXISTING ELECTRICITY
 - Ex.T— EXISTING TELECOMMUNICATIONS
 - Ex.S— EXISTING SEWER
 - Ex.D— EXISTING DRAIN
 - W— WATER
 - E— ELECTRICITY
 - T— TELECOMMUNICATIONS
 - S— SEWER
 - G— GAS
 - 1.0m— EXISTING MAJOR CONTOUR (1.0m)
 - 0.2m— EXISTING MINOR CONTOUR (0.2m)
 - LOCAL DRAINAGE
 - FLOW DIRECTION
 - DIRECTION OF LOT FALL
 - TREE TO BE REMOVED
 - TREE RETAINED WITH SPECIFIC ARBORIST CONTROL (REFER ARBORIST SURVEY REPORT R7522_4)
 - HOUSE CONNECTION
 - HOUSE CONNECTION W/ CONC. SURROUND
 - STREET NAME SIGN
 - ROAD SIGN
 - PROPOSED SWALE
 - BATTER EXTENTS
 - WATER/GAS CONDUIT



DETAIL PLAN - COOMA STREET CONNECTION TO DISNEY STREET

10 5 0 10 20 1:500
Original sheet size A1



DETAILED DESIGN

JCA Land Consultants
Surveying - Engineering - Town Planning
Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

WARNING - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

DIAL BEFORE YOU DIG
www.1100.com.au
The Essential First Step

PLAN APPROVED
SIGNED
DEREK ROTTIER
MANAGER
PROJECT DELIVERY

NO	DATE	BY	REVISION DETAILS
K	20.05.26	RP	AMENDED TREE RETENTION INFORMATION
J	06.03.26	AC	COOMA STREET CONCRETE PAVEMENT
I	05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
H	23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
G	27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
F	30.07.25	AC	AMENDED DESIGN SCOPE COOMA ST
E	20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
D	29.07.24	ZG	AMENDED DETAILED DESIGN

PROJECT QA:	TBA
CONTRACT CN:	TBA
CIVIL 3D DWG:	27067_C2
SURVEY:	JCA
DESIGN:	AC (JCA)
DRAWN:	AC (JCA)
CHECKED:	SP (JCA)

MORNINGTON PENINSULA
Shire

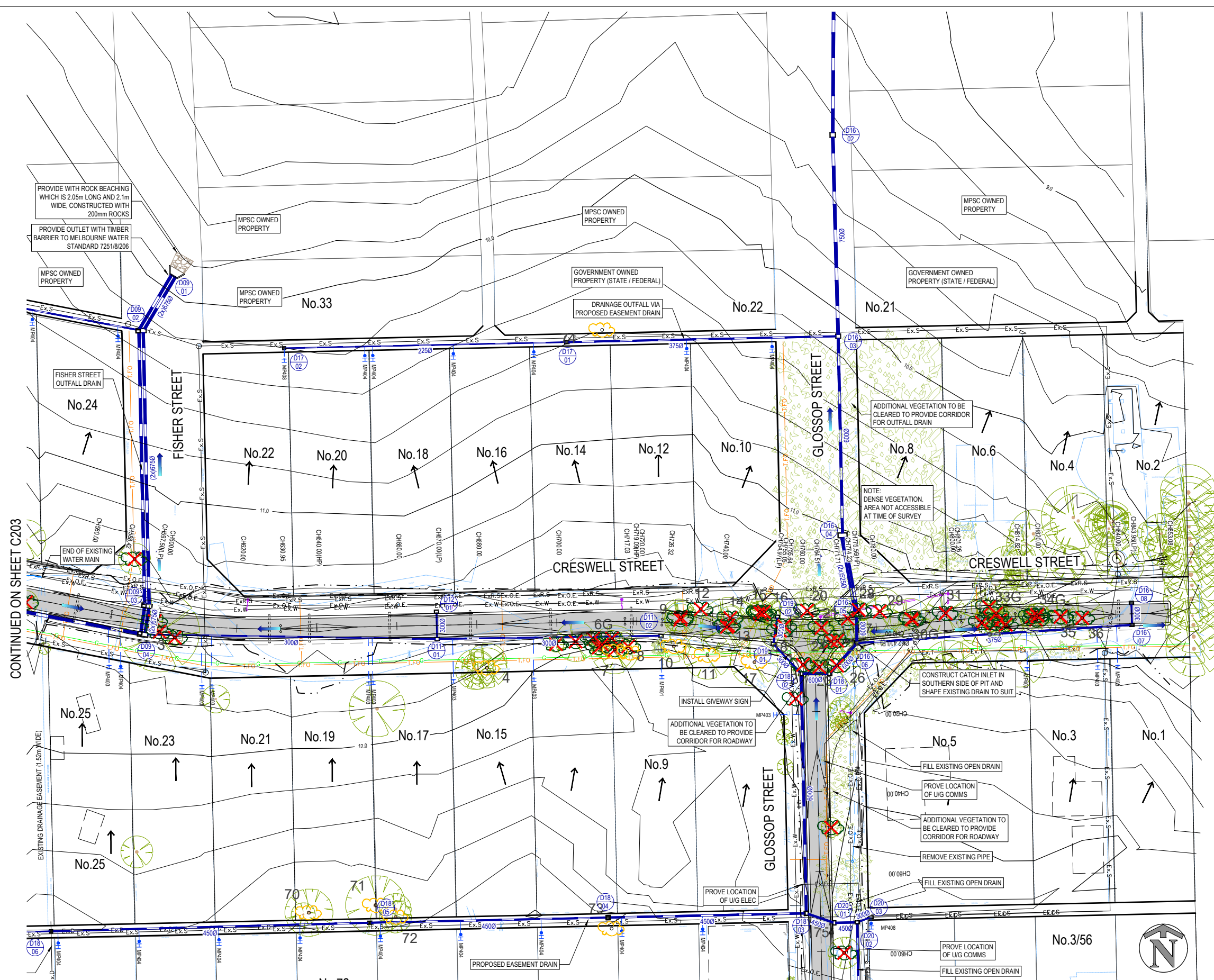
CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST - CRIB POINT
ROAD UPGRADE
DETAIL PLAN

DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C202
PLAN REF No.	27067
REV	09

- LEGEND**
- Ex.W — EXISTING WATER
 - Ex.E — EXISTING ELECTRICITY
 - Ex.T — EXISTING TELECOMMUNICATIONS
 - Ex.S — EXISTING SEWER
 - Ex.D — EXISTING DRAIN
 - W — WATER
 - E — ELECTRICITY
 - T — TELECOMMUNICATIONS
 - S — SEWER
 - G — GAS
 - EXISTING MAJOR CONTOUR (1.0m)
 - EXISTING MINOR CONTOUR (0.2m)
 - LOCAL DRAINAGE
 - FLOW DIRECTION
 - DIRECTION OF LOT FALL
 - TREE TO BE REMOVED
 - TREE RETAINED WITH SPECIFIC ARBORIST CONTROL (REFER ARBORIST SURVEY REPORT R7252_4)
 - HOUSE CONNECTION
 - HOUSE CONNECTION W/ CONC. SURROUND
 - STREET NAME SIGN
 - ROAD SIGN
 - PROPOSED SWALE
 - BATTER EXTENTS
 - WATER/GAS CONDUIT

PUBLIC USE ZONE

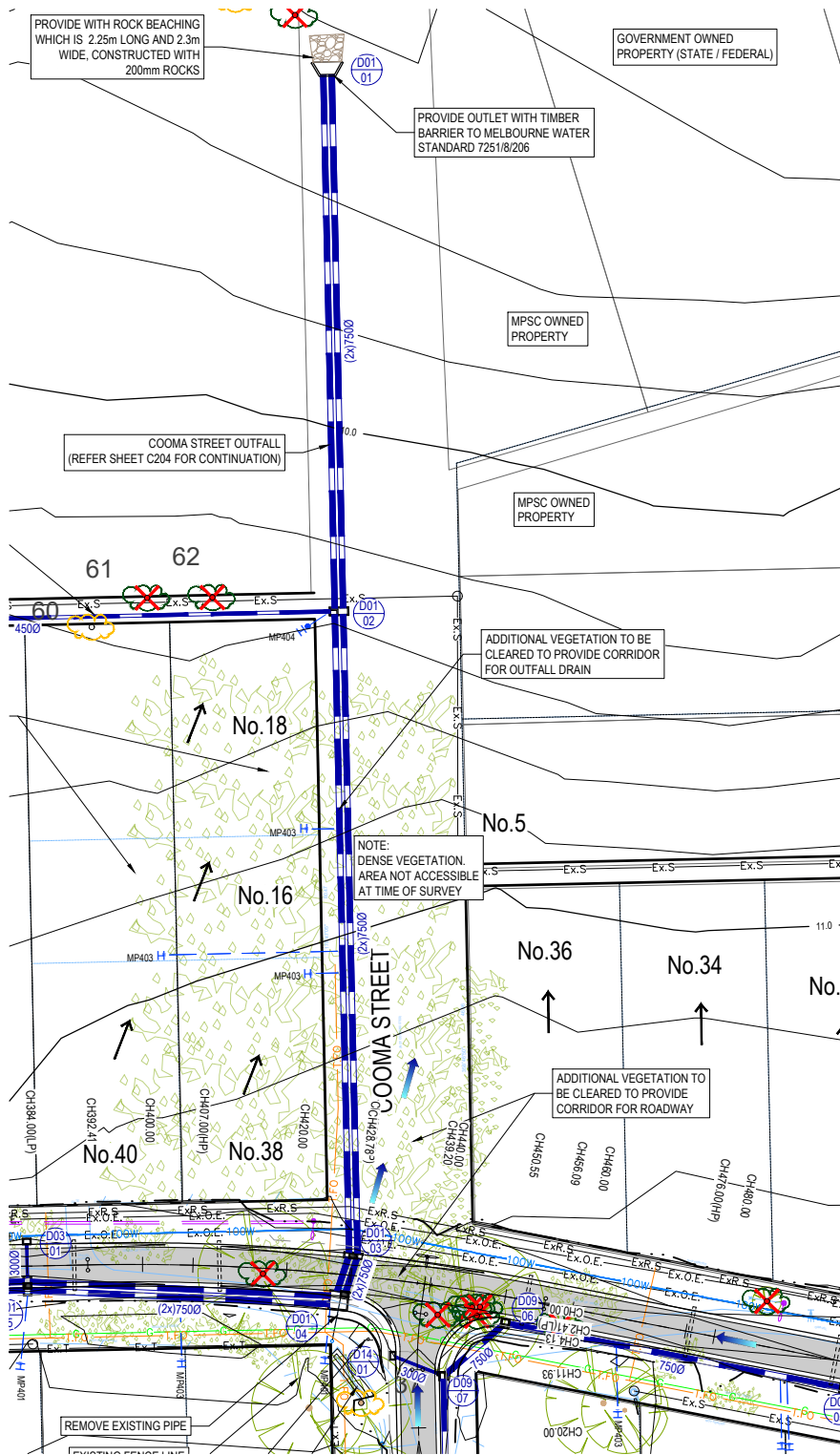
DETAILED DESIGN



DETAIL PLAN

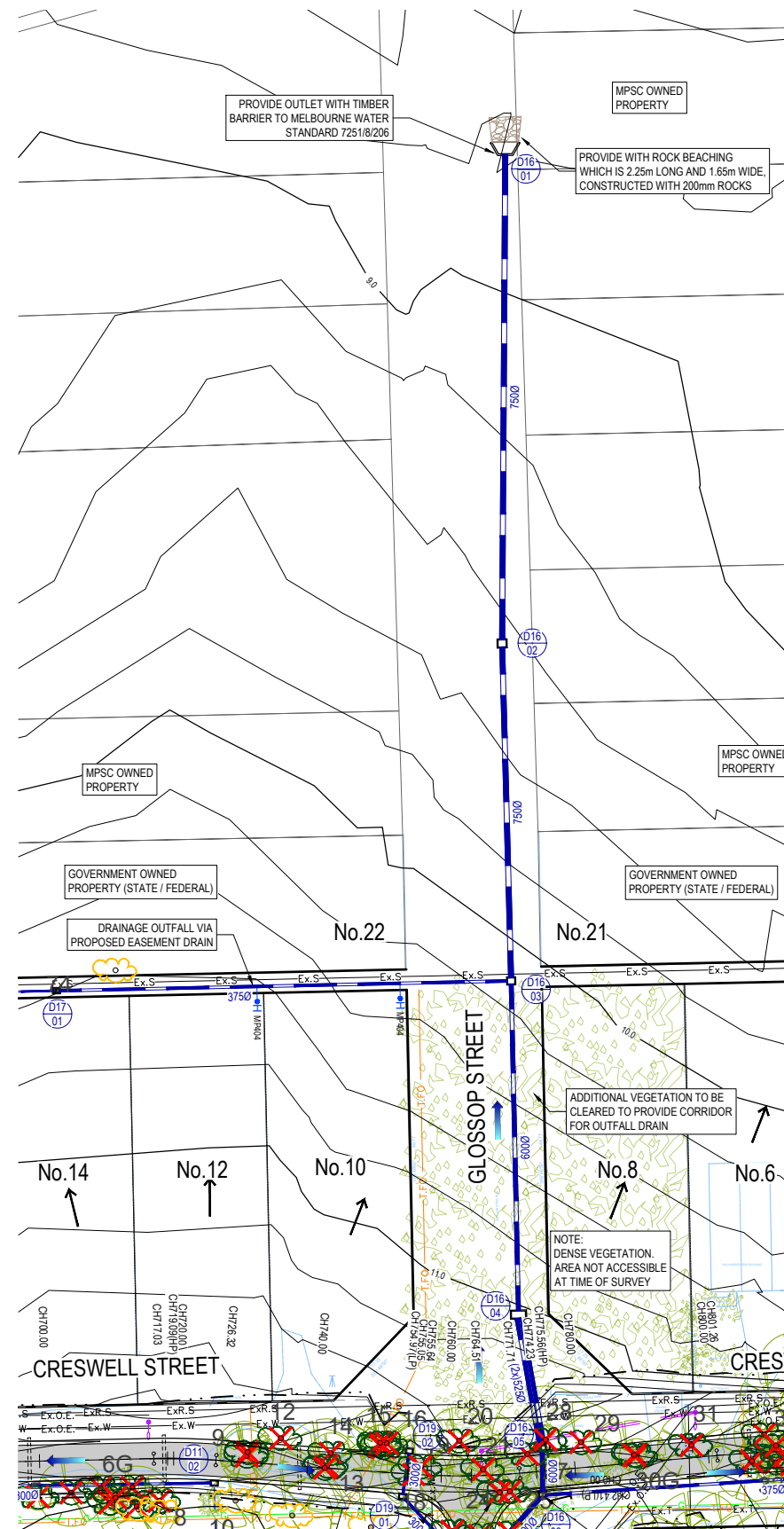
10 5 0 10 20 1:500
Original sheet size A1

REFER SHEET C204
GLOSSOP STREET EXTENSION TO DISNEY STREET



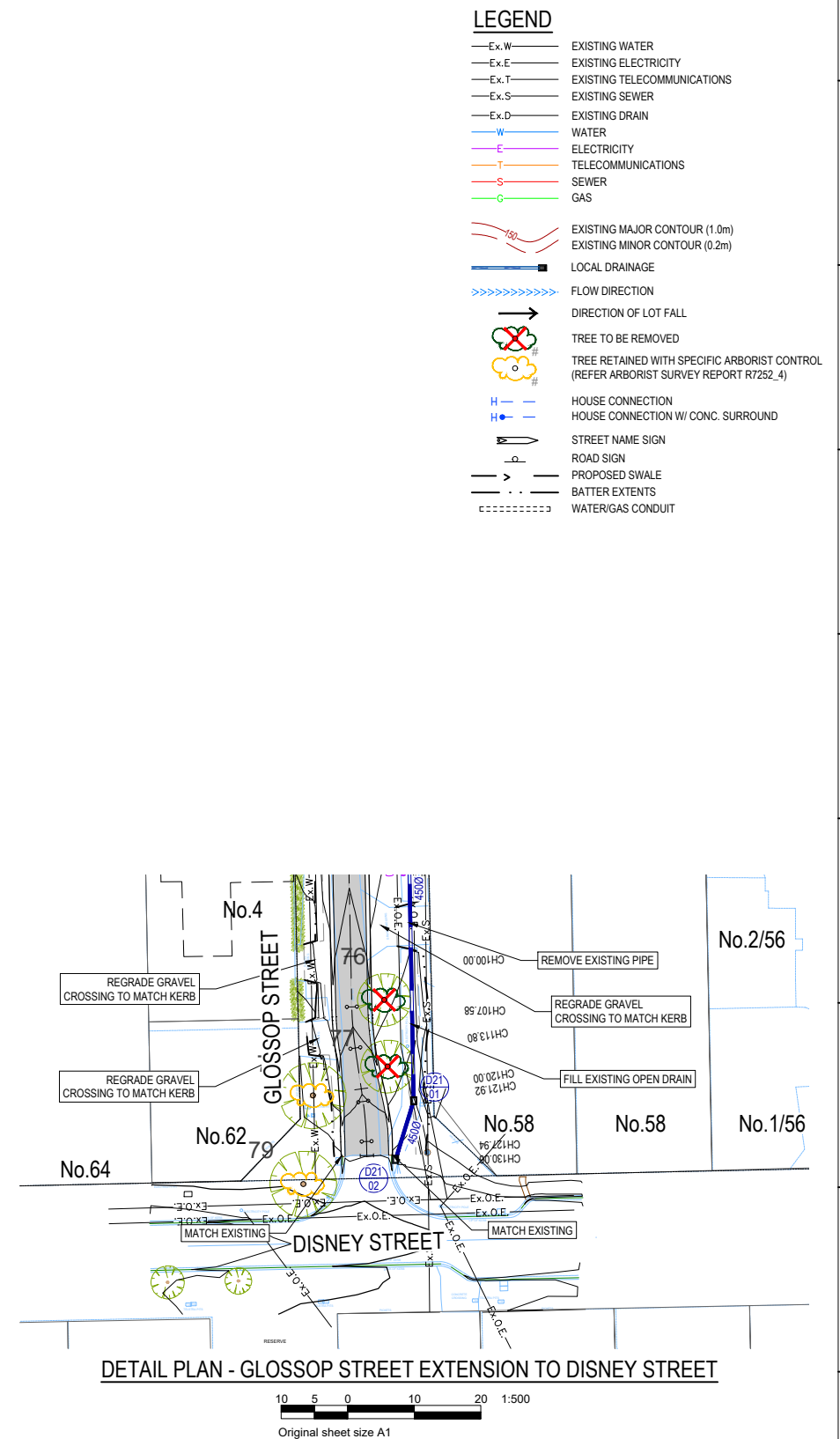
DETAIL PLAN - COOMA STREET OUTFALL

10 5 0 10 20 1:500
Original sheet size A1



DETAIL PLAN - GLOSSOP STREET OUTFALL

10 5 0 10 20 1:500
Original sheet size A1

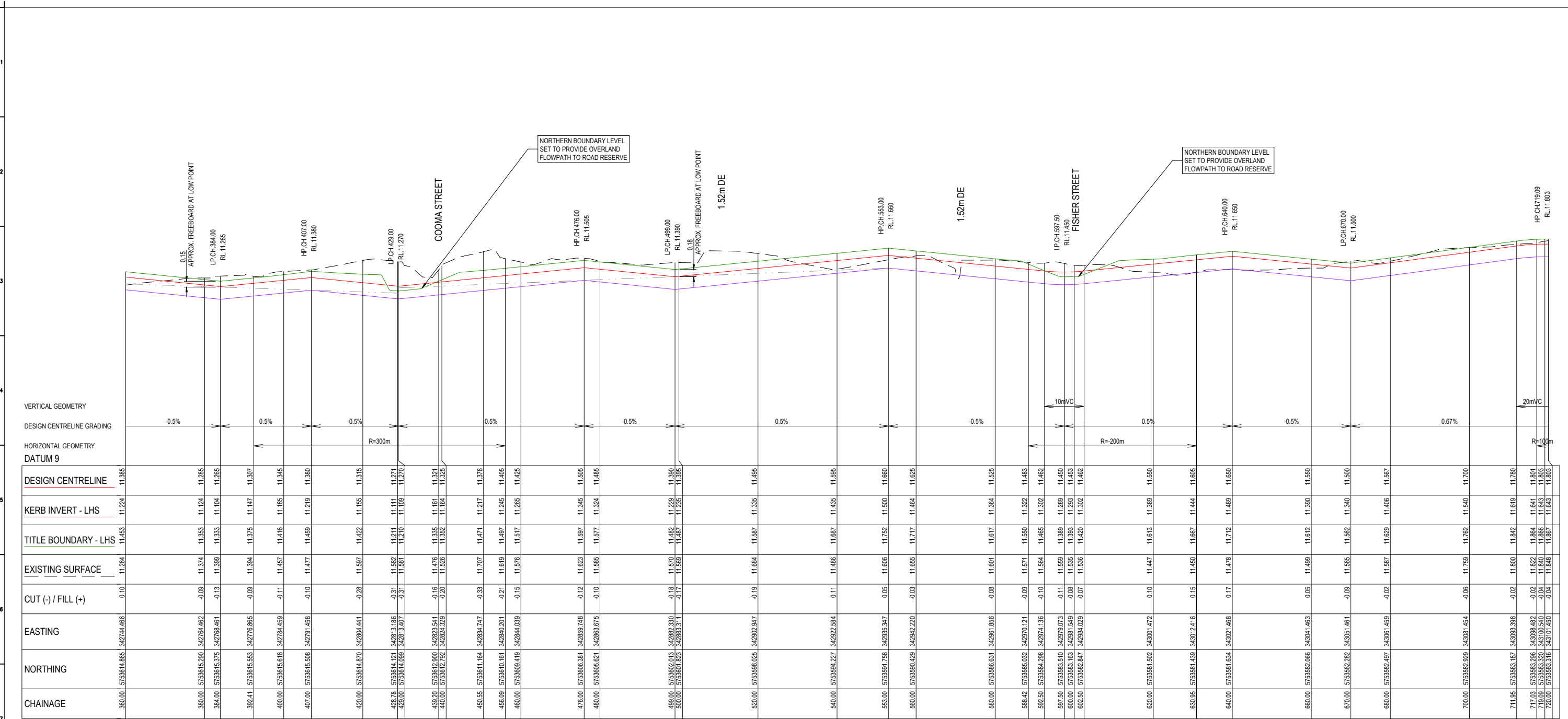


DETAIL PLAN - GLOSSOP STREET EXTENSION TO DISNEY STREET

10 5 0 10 20 1:500
Original sheet size A1

- LEGEND**
- Ex. W — EXISTING WATER
 - Ex. E — EXISTING ELECTRICITY
 - Ex. T — EXISTING TELECOMMUNICATIONS
 - Ex. S — EXISTING SEWER
 - Ex. D — EXISTING DRAIN
 - W — WATER
 - E — ELECTRICITY
 - T — TELECOMMUNICATIONS
 - S — SEWER
 - G — GAS
 - EXISTING MAJOR CONTOUR (1.0m)
 - EXISTING MINOR CONTOUR (0.2m)
 - LOCAL DRAINAGE
 - FLOW DIRECTION
 - DIRECTION OF LOT FALL
 - TREE TO BE REMOVED
 - TREE RETAINED WITH SPECIFIC ARBORIST CONTROL (REFER ARBORIST SURVEY REPORT R7252_4)
 - H — HOUSE CONNECTION
 - H — HOUSE CONNECTION W/ CONC. SURROUND
 - STREET NAME SIGN
 - ROAD SIGN
 - PROPOSED SWALE
 - BATTER EXTENTS
 - WATER/GAS CONDUIT

PLAN APPROVED		K 20.05.26	RP	AMENDED TREE RETENTION INFORMATION	COMPUTER REFERENCE
		J 06.03.26	AC	COOMA STREET CONCRETE PAVEMENT	PROJECT QA: TBA
		I 05.03.26	AC	COOMA STREET CONCRETE PAVEMENT	CONTRACT CN: TBA
		H 23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL	CIVIL 3D DWG: 27067_C2
		G 27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE	SURVEY: JCA
		F 30.07.25	AC	AMENDED DESIGN SCOPE COOMA ST	DESIGN: AC (JCA)
		E 20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST	DRAWN: AC (JCA)
		D 29.07.24	ZG	AMENDED DETAILED DESIGN	CHECKED: SP (JCA)
SIGNED		DRAWING REVISION DETAILS			
DEREK ROTHER		No	DATE	BY	
MANAGER					
PROJECT DELIVERY					



CRESWELL STREET LONGITUDINAL SECTION

Horizontal 1 : 500
Vertical 1 : 25

DETAILED DESIGN

JCA Land Consultants
Surveying - Engineering - Town Planning
Suite 9, 303 MaroonDAH Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

Quality Management System
ISO 9001
trust-mark.com®

WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

DIAL BEFORE YOU DIG
www.1100.com.au
The Essential First Step

PLAN APPROVED

SIGNED _____

DEREK ROTTER
MANAGER
PROJECT DELIVERY

No	DATE	BY	DRAWING REVISION DETAILS
H	06.03.26	AC	COOMA STREET CONCRETE PAVEMENT
F	05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
E	30.07.25	AC	AMENDED DESIGN SCOPE COOMA ST
D	20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
C	18.11.22	AC	DETAILED DESIGN
B	09.05.22	AC	AMENDED FUNCTIONAL DESIGN
A	07.03.22	AC	PRELIMINARY ISSUE

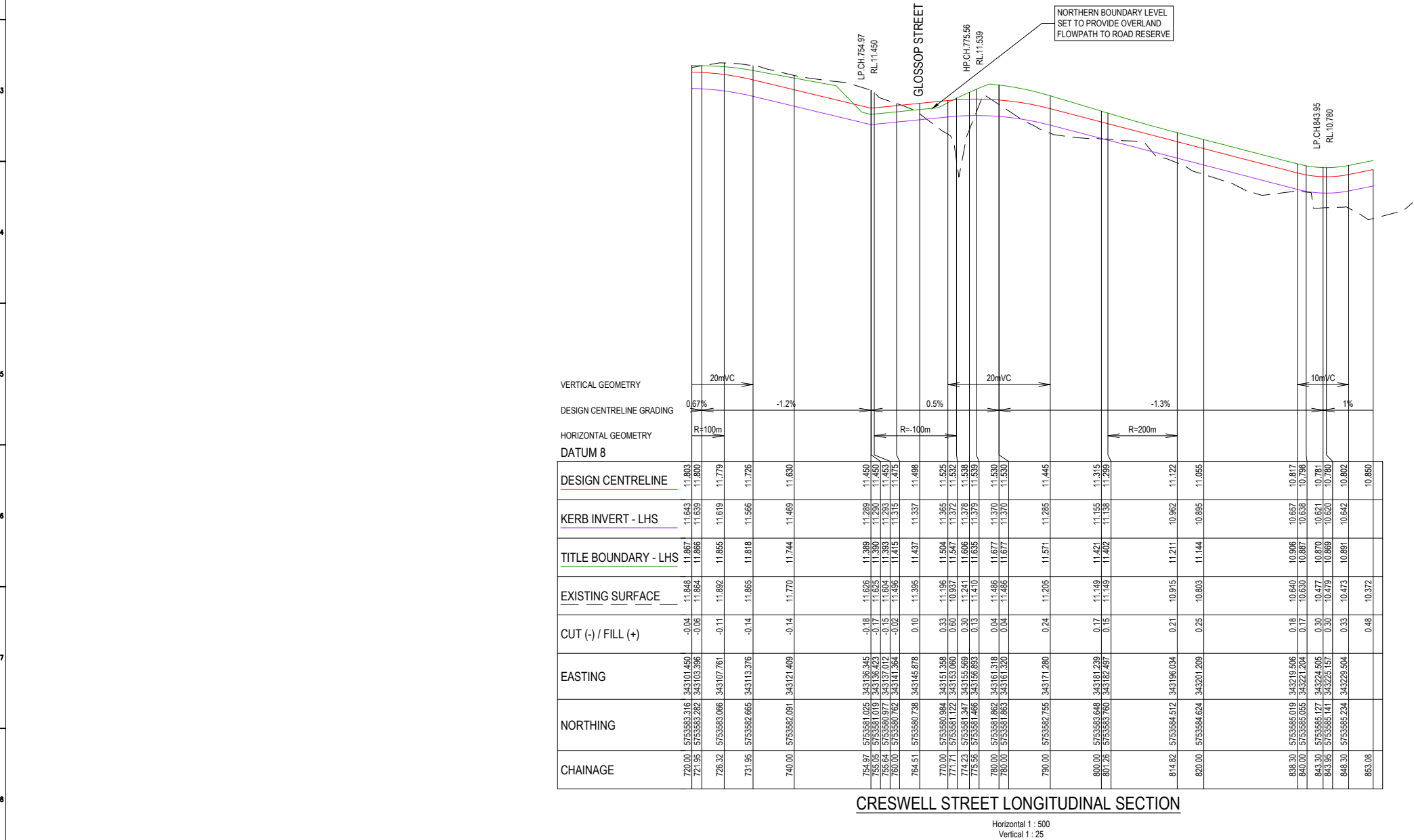
COMPUTER REFERENCE

PROJECT QA:	TBA
CONTRACT CN:	TBA
CIVIL 3D DWG:	27067_C3
SURVEY:	JCA
DESIGN:	AC (JCA)
DRAWN:	AC (JCA)
CHECKED:	SP (JCA)

MORNINGTON PENINSULA
Shire

CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST - CRIB POINT
ROAD UPGRADE
ROAD LONGITUDINAL SECTIONS - CRESWELL ST

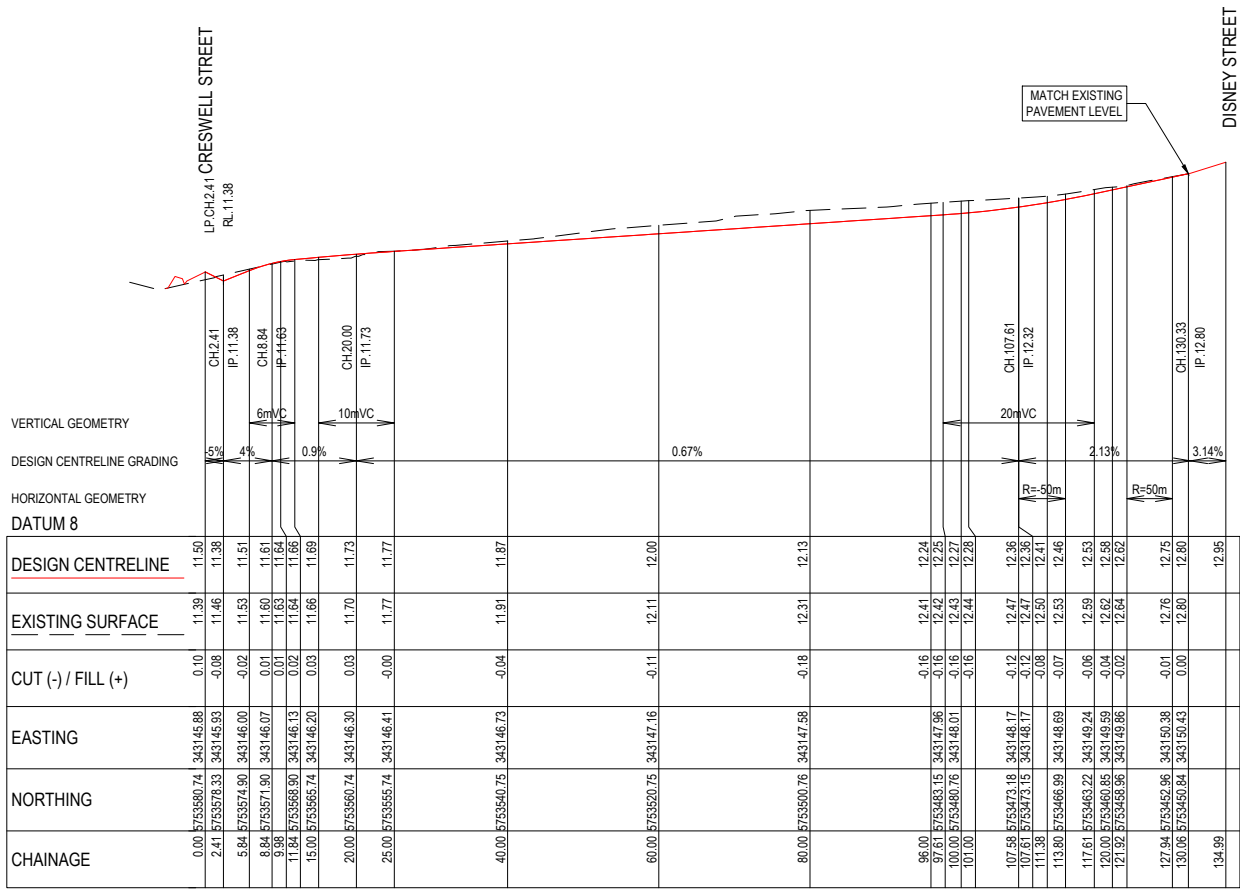
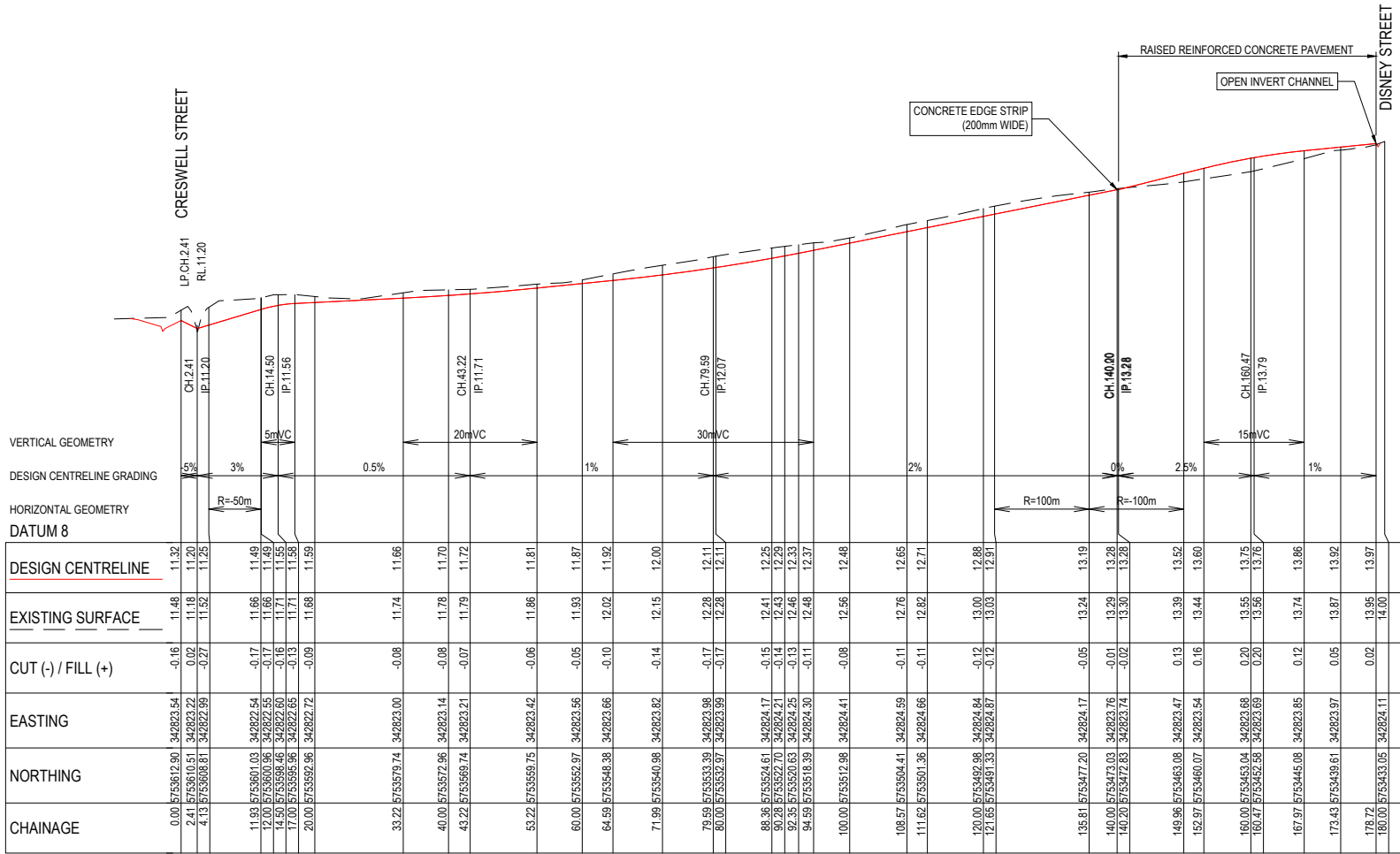
DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C302
PLAN REF No.	27067
REV	06



CRESWELL STREET LONGITUDINAL SECTION

Horizontal 1 : 500
Vertical 1 : 25

DETAILED DESIGN



DETAILED DESIGN

JCA Land Consultants

Surveying - Engineering - Town Planning

Suite 9, 303 MaroonDAH Highway
Ringwood Victoria, Australia 3134

Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

Quality Management System
ISO 9001
trust-mark.com®

WARNING

BWARE - UNDERGROUND SERVICES

THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

DIAL BEFORE YOU DIG

www.1100.com.au

The Essential First Step

PLAN APPROVED

SIGNED

DEREK ROTTER
MANAGER

PROJECT DELIVERY

No	DATE	BY	DRAWING REVISION DETAILS
H	06.03.26	AC	COOMA STREET CONCRETE PAVEMENT
F	05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
E	30.07.25	AC	AMENDED DESIGN SCOPE COOMA ST
D	20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
C	18.11.22	AC	DETAILED DESIGN
B	09.05.22	AC	AMENDED FUNCTIONAL DESIGN
A	07.03.22	AC	PRELIMINARY ISSUE

COMPUTER REFERENCE
PROJECT QA: TBA
CONTRACT CN: TBA
CIVIL 3D DWG: 27067_C3
SURVEY: JCA
DESIGN: AC (JCA)
DRAWN: AC (JCA)
CHECKED: SP (JCA)

MORNINGTON PENINSULA

Shire

CRESWELL STREET EAST / COOMA STREET

CRESWELL STREET EAST - CRIB POINT

ROAD UPGRADE

ROAD LONGITUDINAL SECTIONS - COOMA ST / GLOSSOP ST

DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C304
PLAN REF No.	27067
REV	06

Diagram showing a cross-section of a road with a design surface, depth cut/fill, existing surface, and offset. The design surface is at 13.52, depth cut/fill is 0.00, existing surface is 13.52, and offset is -12.88. The road width is 80.00m.

DATUM11.0	
DESIGN SURFACE	13.52
DEPTH CUT (-) / FILL (+)	0.00
EXISTING SURFACE	13.52
OFFSET	-12.88

Scale 1:100(HOR)
Scale 1:100(VER)

CH 80.00

Diagram showing a cross-section of a road with a design surface, depth cut/fill, existing surface, and offset. The design surface is at 14.19, depth cut/fill is 0.00, existing surface is 14.19, and offset is -12.09. The road width is 60.00m.

DATUM11.0	
DESIGN SURFACE	14.19
DEPTH CUT (-) / FILL (+)	0.00
EXISTING SURFACE	14.19
OFFSET	-12.09

Scale 1:100(HOR)
Scale 1:100(VER)

CH 60.00

Diagram showing a cross-section of a road with a design surface, depth cut/fill, existing surface, and offset. The design surface is at 14.82, depth cut/fill is 0.00, existing surface is 14.82, and offset is -4.15. The road width is 40.00m.

DATUM12.0	
DESIGN SURFACE	14.82
DEPTH CUT (-) / FILL (+)	0.00
EXISTING SURFACE	14.82
OFFSET	-4.15

Scale 1:100(HOR)
Scale 1:100(VER)

CH 40.00

Diagram showing a cross-section of a road with a design surface, depth cut/fill, existing surface, and offset. The design surface is at 15.32, depth cut/fill is 0.00, existing surface is 15.32, and offset is -5.36. The road width is 21.08m.

DATUM13.0	
DESIGN SURFACE	15.32
DEPTH CUT (-) / FILL (+)	0.00
EXISTING SURFACE	15.32
OFFSET	-5.36

Scale 1:100(HOR)
Scale 1:100(VER)

CH 21.08

Diagram showing a cross-section of a road with a design surface, depth cut/fill, existing surface, and offset. The design surface is at 11.65, depth cut/fill is 0.00, existing surface is 11.65, and offset is -11.39. The road width is 160.62m.

DATUM9.0	
DESIGN SURFACE	11.65
DEPTH CUT (-) / FILL (+)	0.00
EXISTING SURFACE	11.65
OFFSET	-11.39

Scale 1:100(HOR)
Scale 1:100(VER)

CH 160.62

Diagram showing a cross-section of a road with a design surface, depth cut/fill, existing surface, and offset. The design surface is at 11.86, depth cut/fill is 0.00, existing surface is 11.86, and offset is -12.30. The road width is 140.00m.

DATUM9.0	
DESIGN SURFACE	11.86
DEPTH CUT (-) / FILL (+)	0.00
EXISTING SURFACE	11.86
OFFSET	-12.30

Scale 1:100(HOR)
Scale 1:100(VER)

CH 140.00

Diagram showing a cross-section of a road with a design surface, depth cut/fill, existing surface, and offset. The design surface is at 12.46, depth cut/fill is 0.00, existing surface is 12.46, and offset is -11.51. The road width is 120.00m.

DATUM9.0	
DESIGN SURFACE	12.46
DEPTH CUT (-) / FILL (+)	0.00
EXISTING SURFACE	12.46
OFFSET	-11.51

Scale 1:100(HOR)
Scale 1:100(VER)

CH 120.00

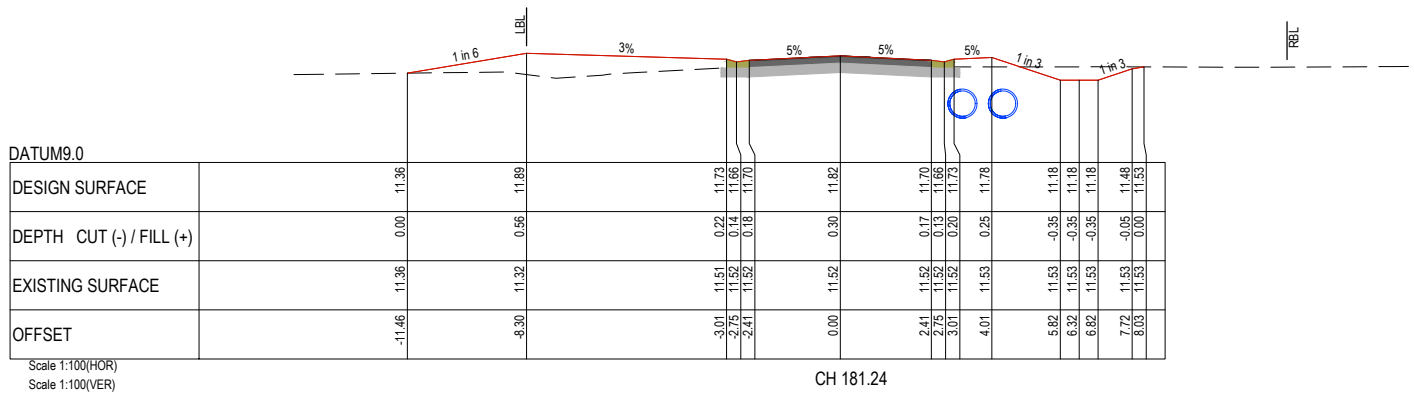
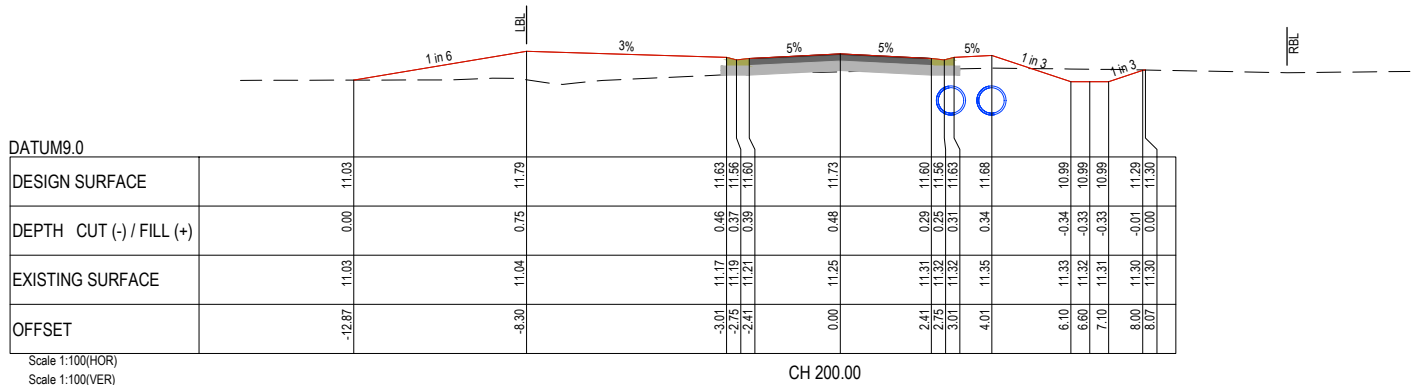
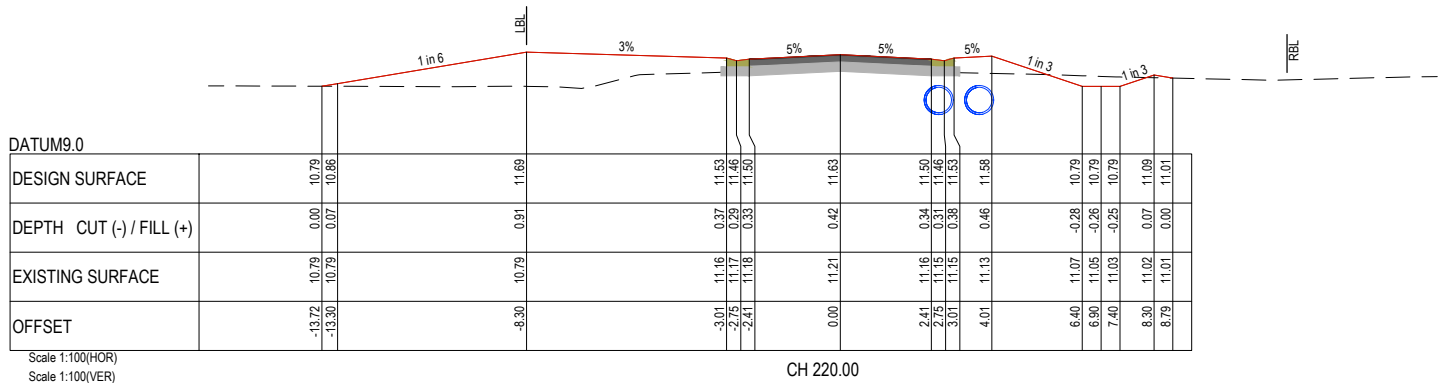
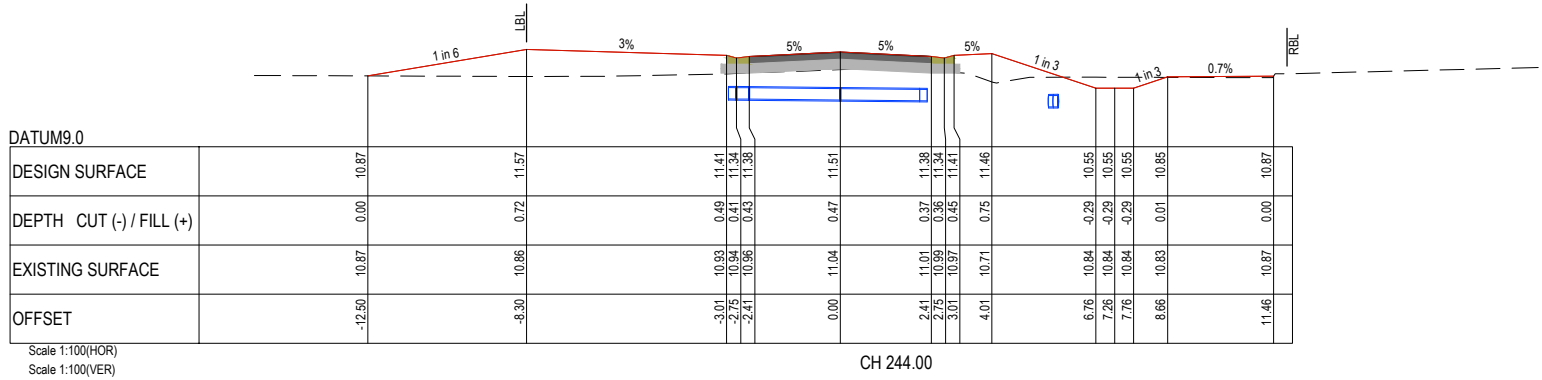
Diagram showing a cross-section of a road with a design surface, depth cut/fill, existing surface, and offset. The design surface is at 12.93, depth cut/fill is 0.00, existing surface is 12.93, and offset is -12.61. The road width is 100.00m.

DATUM10.0	
DESIGN SURFACE	12.93
DEPTH CUT (-) / FILL (+)	0.00
EXISTING SURFACE	12.93
OFFSET	-12.61

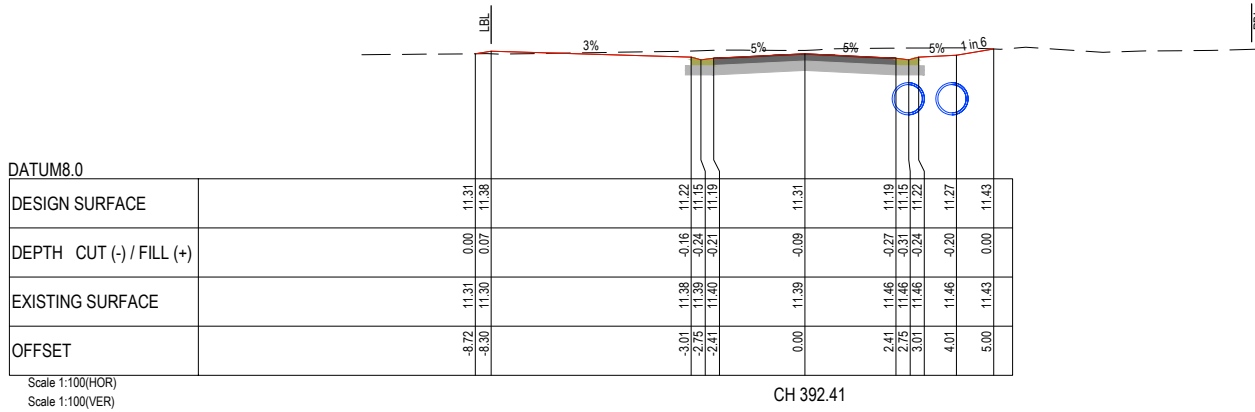
Scale 1:100(HOR)
Scale 1:100(VER)

CH 100.00

DETAILED DESIGN

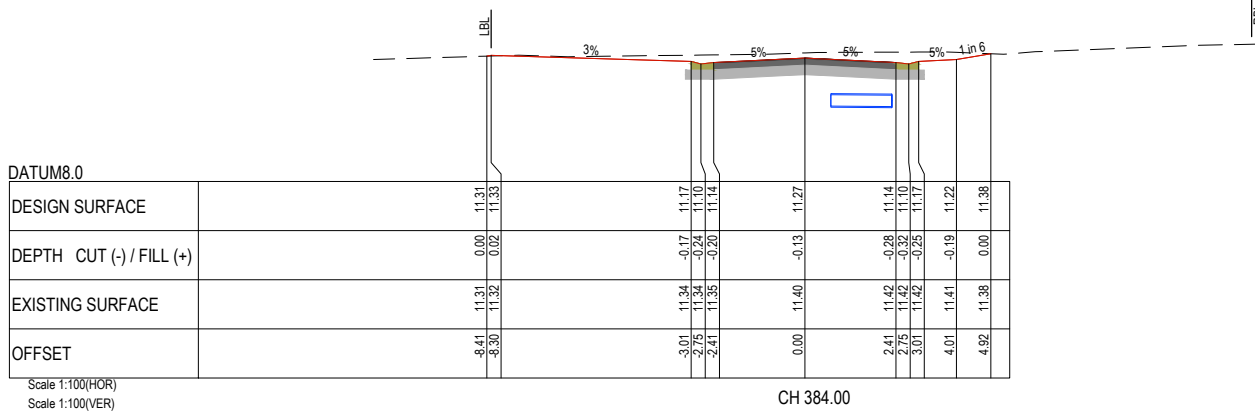


DETAILED DESIGN



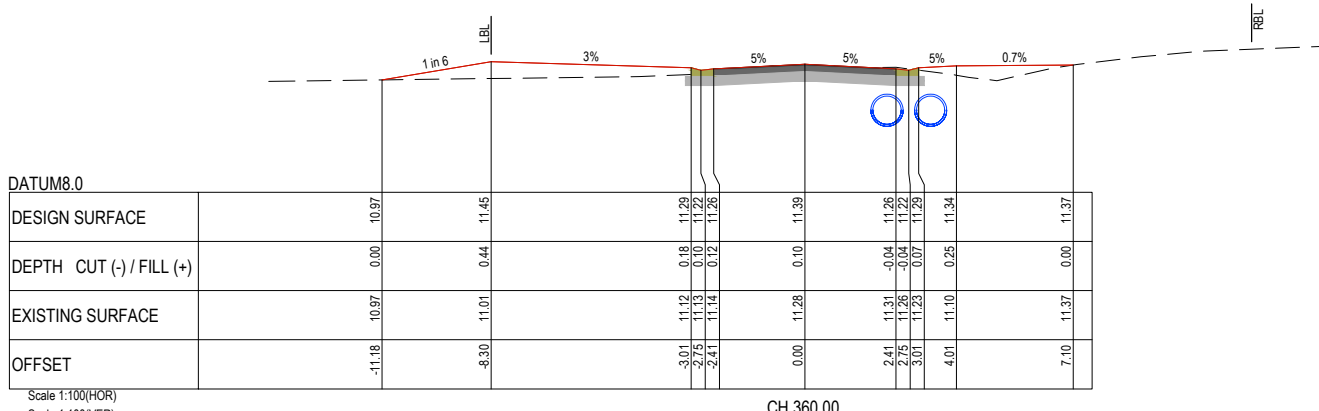
Scale 1:100(HOR)
Scale 1:100(VER)

CH 392.41



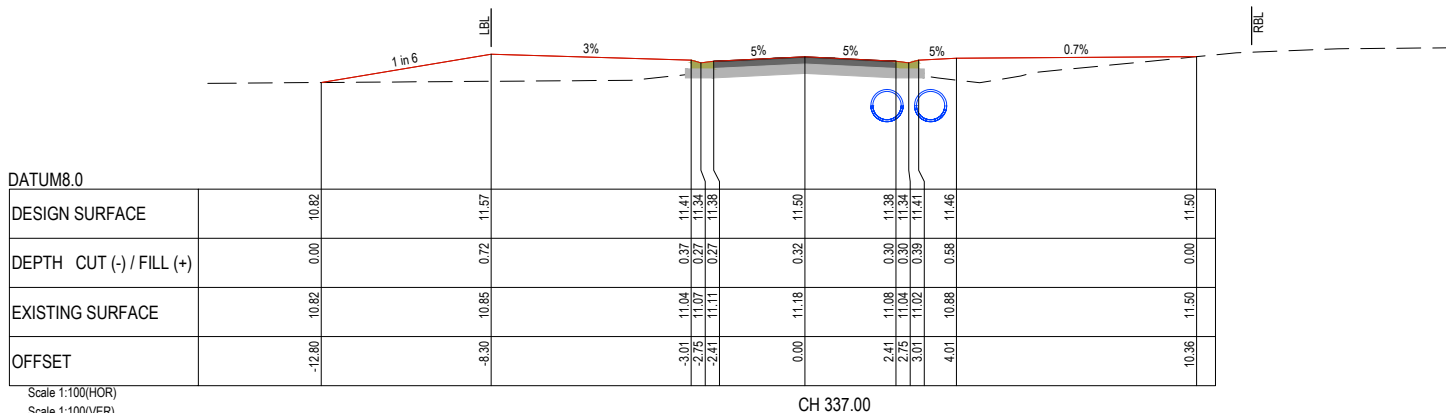
Scale 1:100(HOR)
Scale 1:100(VER)

CH 384.00



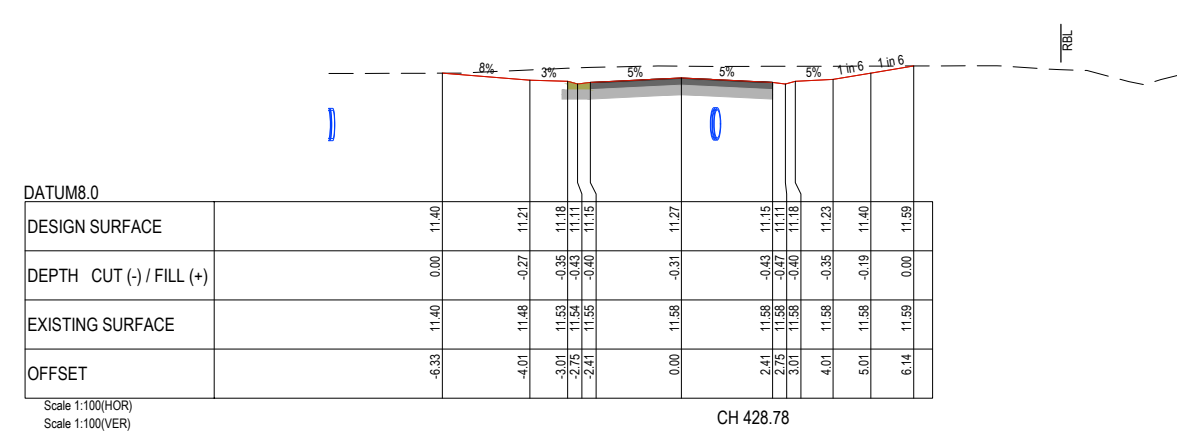
Scale 1:100(HOR)
Scale 1:100(VER)

CH 360.00



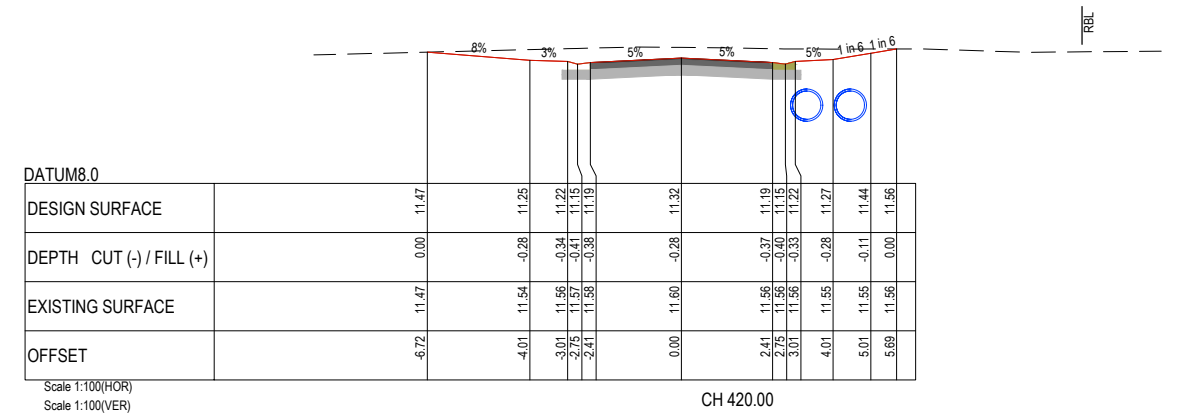
Scale 1:100(HOR)
Scale 1:100(VER)

CH 337.00



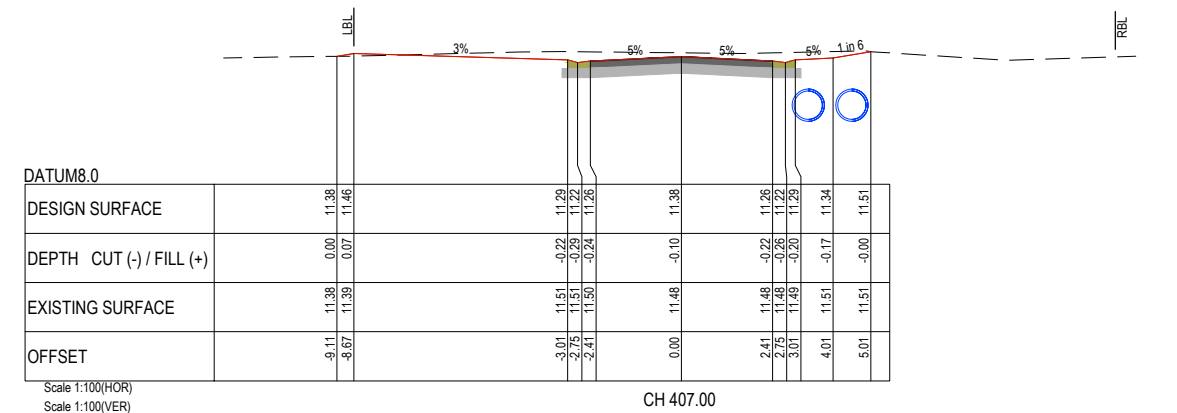
Scale 1:100(HOR)
Scale 1:100(VER)

CH 428.78



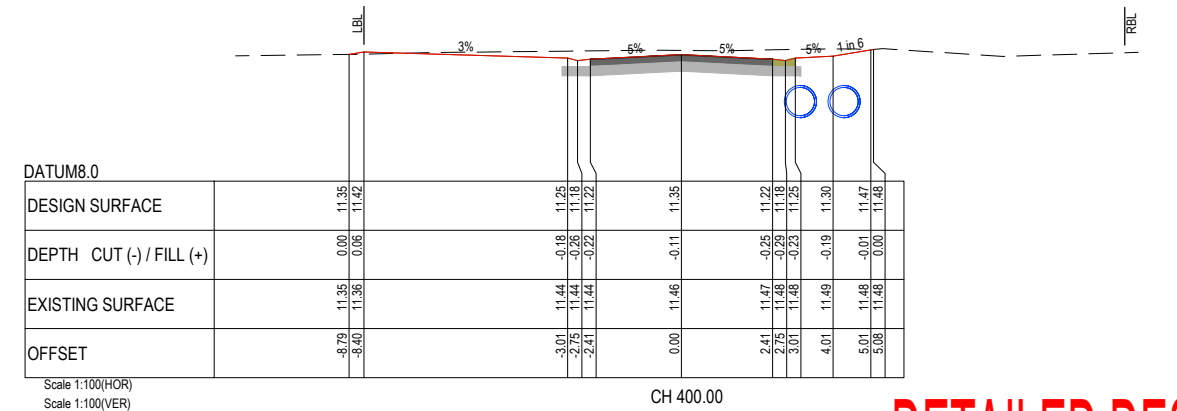
Scale 1:100(HOR)
Scale 1:100(VER)

CH 420.00



Scale 1:100(HOR)
Scale 1:100(VER)

CH 407.00



Scale 1:100(HOR)
Scale 1:100(VER)

CH 400.00

DETAILED DESIGN

DATUM8.0			
DESIGN SURFACE		11.56	11.60
DEPTH CUT (-) / FILL (+)		0.00	0.03
EXISTING SURFACE		11.56	11.56
OFFSET		-9.32	-9.09

Scale 1:100(HOR)
Scale 1:100(VER)

CH 476.00

DATUM8.0			
DESIGN SURFACE		11.51	11.50
DEPTH CUT (-) / FILL (+)		0.00	-0.01
EXISTING SURFACE		11.51	11.51
OFFSET		-9.16	-9.09

Scale 1:100(HOR)
Scale 1:100(VER)

CH 456.09

DATUM8.0			
DESIGN SURFACE		11.48	
DEPTH CUT (-) / FILL (+)		0.00	
EXISTING SURFACE		11.48	
OFFSET		-9.17	

Scale 1:100(HOR)
Scale 1:100(VER)

CH 450.55

DATUM9.0			
DESIGN SURFACE		11.35	
DEPTH CUT (-) / FILL (+)		0.00	
EXISTING SURFACE		11.35	
OFFSET		-7.62	

Scale 1:100(HOR)
Scale 1:100(VER)

CH 439.20

DATUM8.0			
DESIGN SURFACE		11.73	11.75
DEPTH CUT (-) / FILL (+)		0.00	0.02
EXISTING SURFACE		11.73	11.73
OFFSET		-9.21	-9.09

Scale 1:100(HOR)
Scale 1:100(VER)

CH 553.00

DATUM8.0			
DESIGN SURFACE		11.62	11.60
DEPTH CUT (-) / FILL (+)		0.00	0.06
EXISTING SURFACE		11.62	11.63
OFFSET		-9.48	-9.09

Scale 1:100(HOR)
Scale 1:100(VER)

CH 540.00

DATUM8.0			
DESIGN SURFACE		11.60	11.59
DEPTH CUT (-) / FILL (+)		0.00	-0.01
EXISTING SURFACE		11.60	11.60
OFFSET		-9.14	-9.09

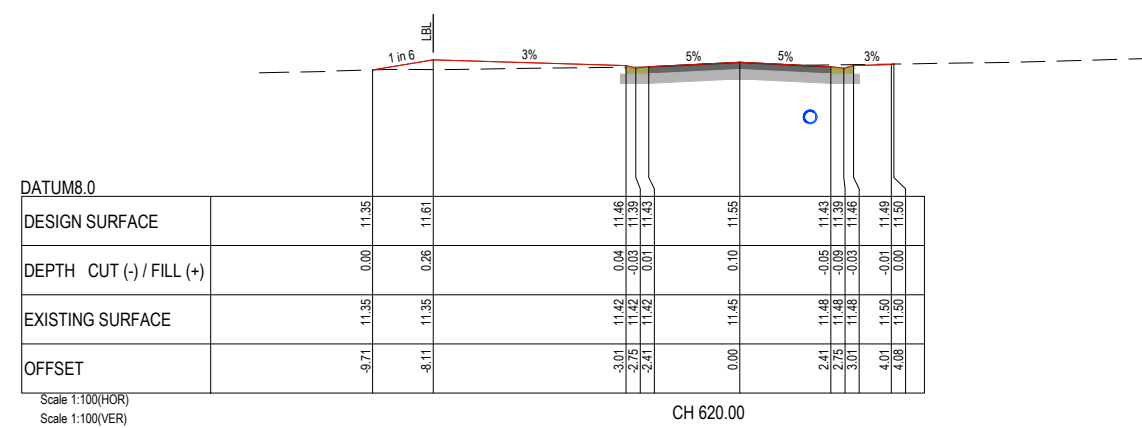
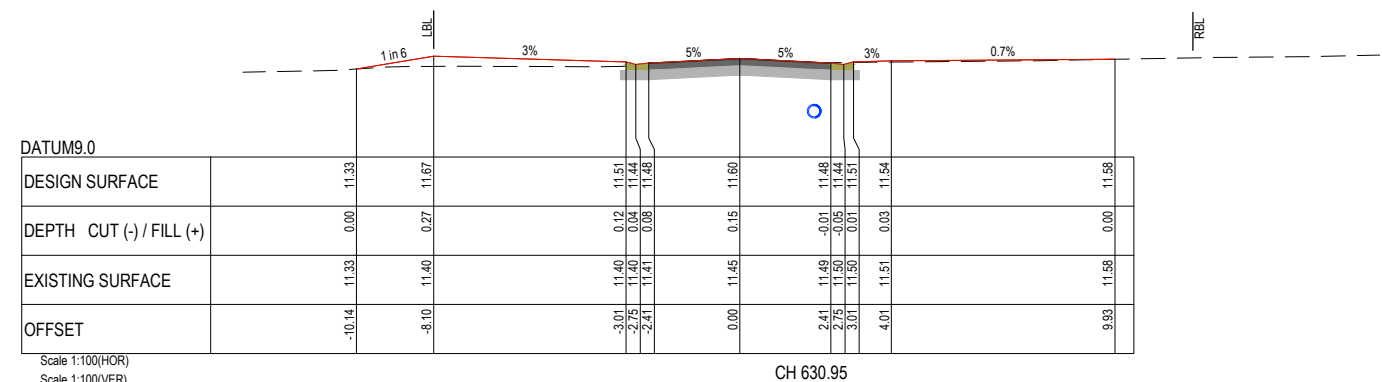
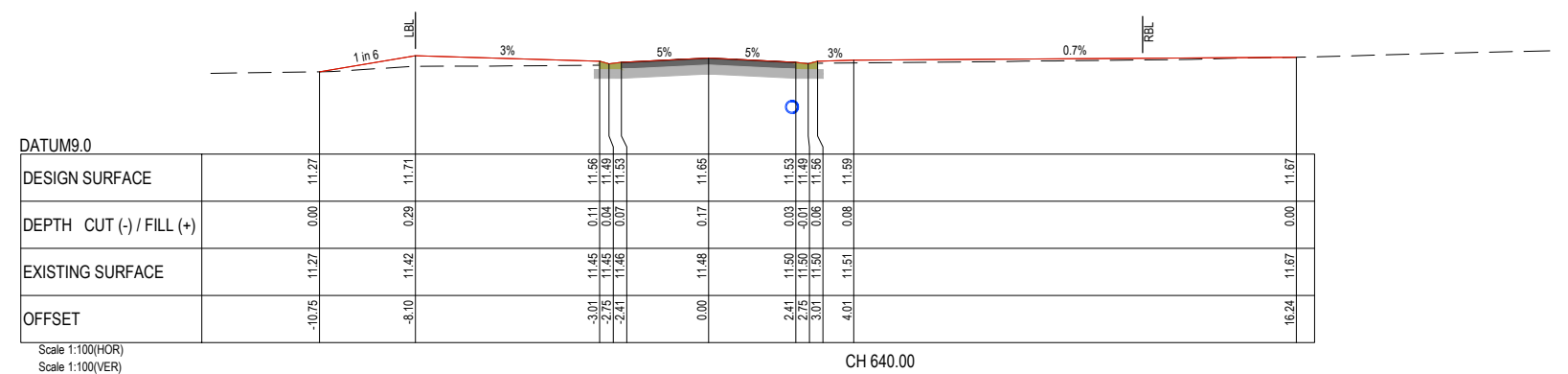
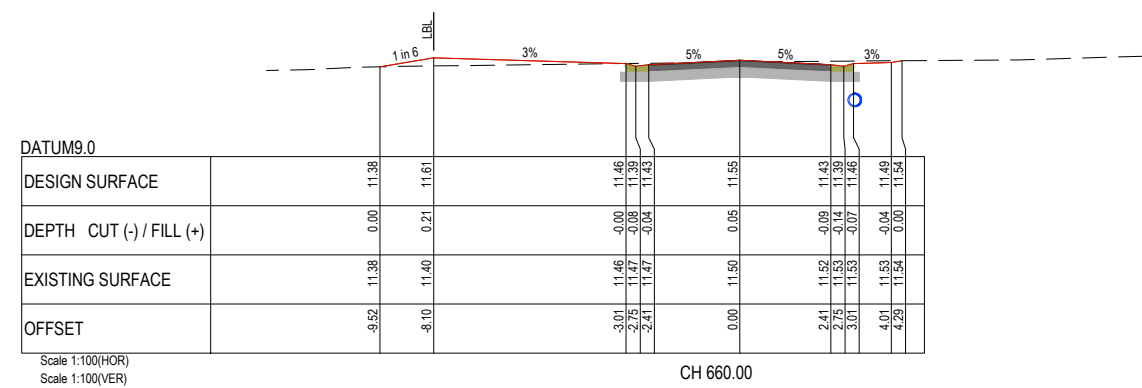
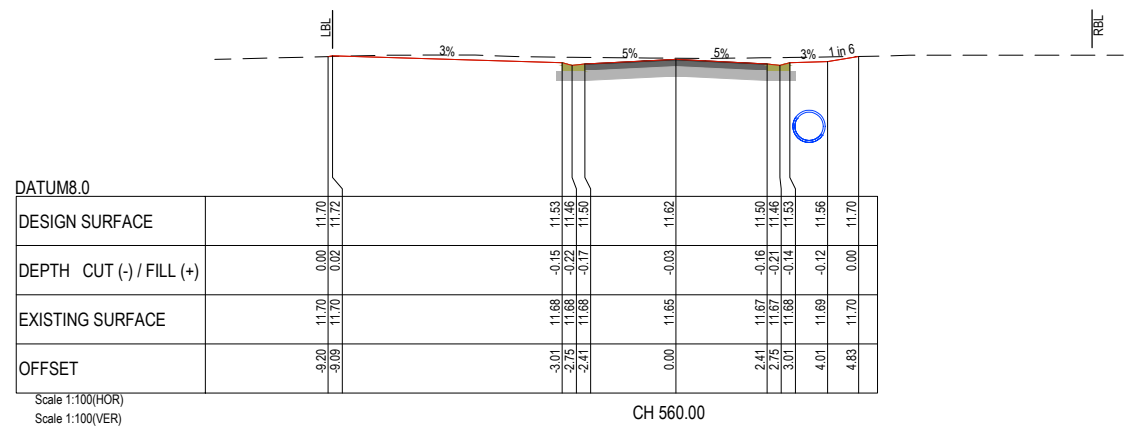
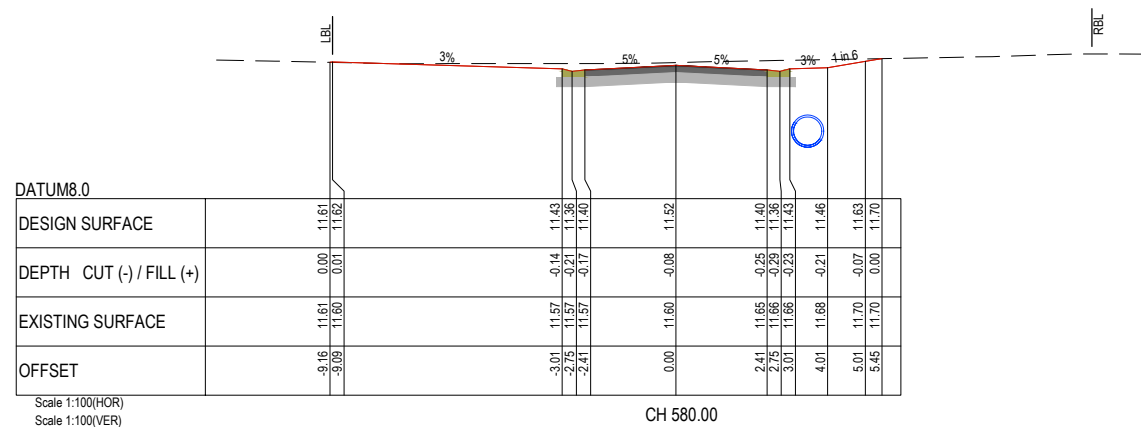
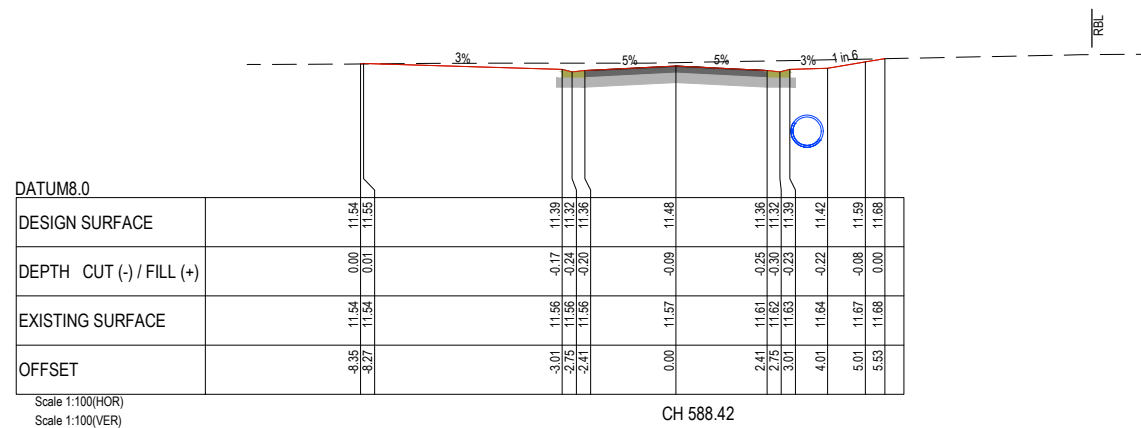
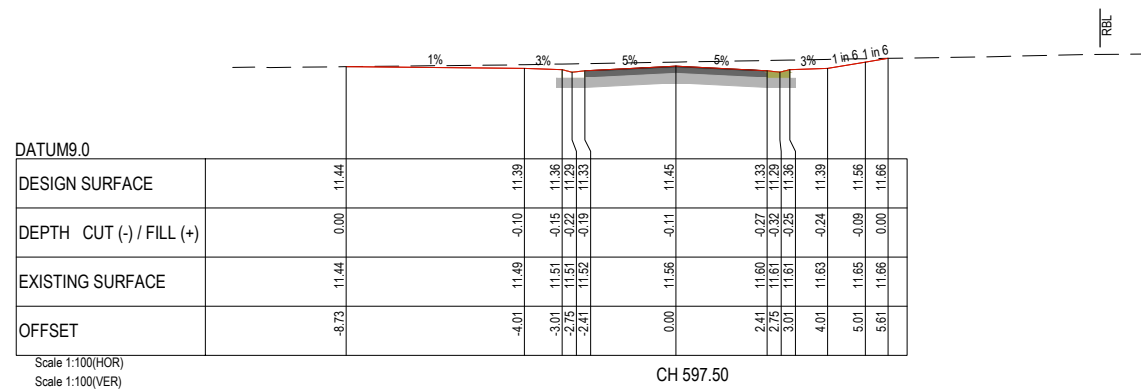
Scale 1:100(HOR)
Scale 1:100(VER)

CH 520.00

DATUM8.0			
DESIGN SURFACE		11.60	11.48
DEPTH CUT (-) / FILL (+)		0.00	-0.13
EXISTING SURFACE		11.60	11.61
OFFSET		-9.02	-9.09

Scale 1:100(HOR)
Scale 1:100(VER)

CH 499.00



DETAILED DESIGN

DATUM7.0

DESIGN SURFACE		11.33				11.45		11.54		11.42		11.45		11.48
DEPTH CUT (-) / FILL (+)		0.00	0.32			0.27	0.20	0.30		0.15	0.11	0.17		0.19
EXISTING SURFACE		11.33	11.29			11.17	11.18	11.24		11.27	11.38	11.27		11.29
OFFSET		-9.93	-8.29			-3.01	-2.75	-2.41		0.00	2.41	3.01		4.01

Scale 1:100(HOR)
Scale 1:100(VER)

CH 774.23

DATUM8.0

DESIGN SURFACE		11.29		11.55		11.44		11.53		11.41
DEPTH CUT (-) / FILL (+)		0.00	0.30			0.29	0.22	0.60		0.30
EXISTING SURFACE		11.29	11.25			11.16	11.15	10.94		11.11
OFFSET		-8.07	-6.52			-3.01	-2.41	0.00		2.41

Scale 1:100(HOR)
Scale 1:100(VER)

CH 771.71

DATUM9.0

DESIGN SURFACE		11.28		11.44		11.41		11.38		11.38
DEPTH CUT (-) / FILL (+)		0.00	0.13			0.08	0.00	0.10		-0.08
EXISTING SURFACE		11.28	11.31			11.33	11.33	11.39		11.46
OFFSET		-4.92	-4.01			-3.01	-2.75	0.00		2.41

Scale 1:100(HOR)
Scale 1:100(VER)

CH 764.51

DATUM9.0

DESIGN SURFACE		11.44		11.39		11.36		11.45		11.33
DEPTH CUT (-) / FILL (+)		0.00	-0.13			-0.17	-0.25	-0.15		-0.33
EXISTING SURFACE		11.44	11.52			11.54	11.54	11.60		11.66
OFFSET		-8.89	-4.01			-3.01	-2.75	0.00		2.41

Scale 1:100(HOR)
Scale 1:100(VER)

CH 755.64

DATUM8.0

DESIGN SURFACE		10.54		11.14		10.96		11.06		10.93		11.04
DEPTH CUT (-) / FILL (+)		0.00	0.53			0.21	0.14	0.25		0.10		0.00
EXISTING SURFACE		10.54	10.62			10.75	10.76	10.80		10.83		11.04
OFFSET		-12.62	-9.99			-3.01	-2.41	0.00		2.41		11.24

Scale 1:100(HOR)
Scale 1:100(VER)

CH 820.00

DATUM8.0

DESIGN SURFACE		10.72		11.21		11.03		11.12		11.00		11.11
DEPTH CUT (-) / FILL (+)		0.00	0.44			0.18	0.14	0.21		0.06		0.00
EXISTING SURFACE		10.72	10.77			10.85	10.86	10.92		10.95		11.11
OFFSET		-11.92	-8.99			-3.01	-2.41	0.00		2.41		11.21

Scale 1:100(HOR)
Scale 1:100(VER)

CH 814.82

DATUM8.0

DESIGN SURFACE		10.95		11.40		11.21		11.30		11.18		11.29
DEPTH CUT (-) / FILL (+)		0.00	0.39			0.11	0.04	0.15		-0.00		0.00
EXISTING SURFACE		10.95	11.01			11.10	11.10	11.15		11.18		11.29
OFFSET		-12.19	-9.47			-3.01	-2.41	0.00		2.41		11.11

Scale 1:100(HOR)
Scale 1:100(VER)

CH 801.26

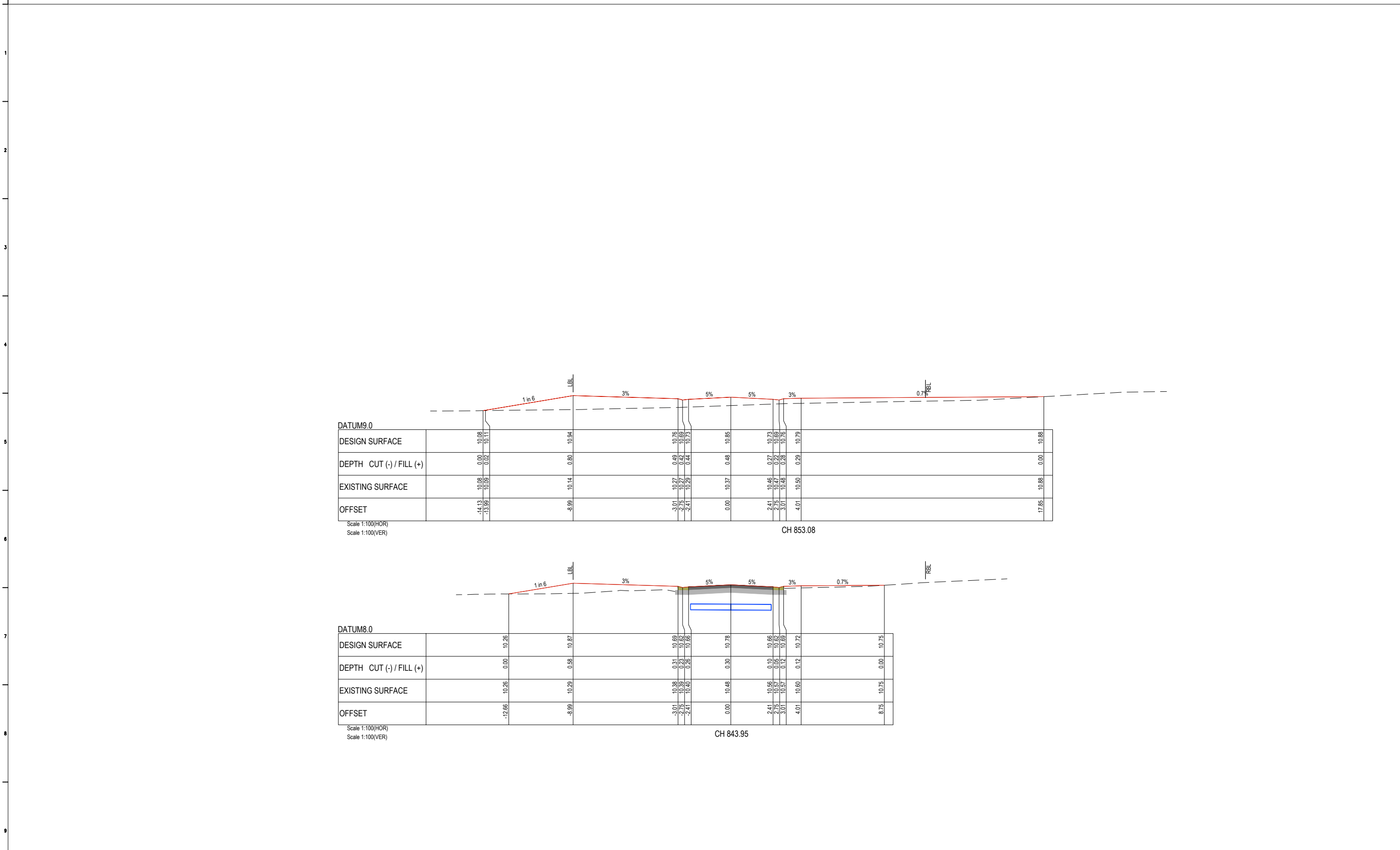
DATUM7.0

DESIGN SURFACE		11.36		11.64		11.45		11.54		11.42		11.48
DEPTH CUT (-) / FILL (+)		0.00	0.32			0.11	0.08	0.13		-0.02		0.02
EXISTING SURFACE		11.36	11.31			11.34	11.33	11.41		11.44		11.45
OFFSET		-10.90	-9.23			-3.01	-2.41	0.00		2.41		4.01

Scale 1:100(HOR)
Scale 1:100(VER)

CH 775.56

DETAILED DESIGN





Surveying - Engineering - Town Planning
Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jca.com.au www.jca.com.au



Quality Management System
ISO 9001
trust-mark.com®

WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



DIAL BEFORE YOU DIG
www.1100.com.au
The Essential First Step

PLAN APPROVED

SIGNED _____

DEREK ROTTER
MANAGER
PROJECT DELIVERY

J	06.03.26	AC	COOMA STREET CONCRETE PAVEMENT
I	05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
H	23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
G	27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
F	30.07.25	AC	AMENDED DESIGN SCOPE COOMA ST
E	20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
D	29.07.24	ZG	AMENDED DETAILED DESIGN
C	06.12.22	AC	DETAILED DESIGN
No	DATE	BY	DRAWING REVISION DETAILS

COMPUTER REFERENCE

PROJECT QA:	TBA
CONTRACT CN:	TBA
CIVIL 3D DWG:	27067_C4
SURVEY:	JCA
DESIGN:	AC (JCA)
DRAWN:	AC (JCA)
CHECKED:	SP (JCA)



MORNINGTON PENINSULA
Shire

CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST – CRIB POINT
ROAD UPGRADE
ROAD CROSS SECTIONS – CRESWELL ST

DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C409
PLAN REF No.	27067
REV	09

DETAILED DESIGN

DATUM12.0

DESIGN SURFACE			13.80	13.84	13.92	13.84
DEPTH CUT (-) / FILL (+)			0.00	0.03	0.05	-0.00
EXISTING SURFACE			13.80	13.81	13.87	13.85
OFFSET			-2.65	-2.41	0.00	2.41

Scale 1:100(HOR)
Scale 1:100(VER)

CH 173.43

DATUM12.0

DESIGN SURFACE			13.55	13.68	13.75	13.68	13.50
DEPTH CUT (-) / FILL (+)			0.00	0.12	0.20	0.16	0.00
EXISTING SURFACE			13.55	13.56	13.55	13.52	13.50
OFFSET			-3.20	-2.41	0.00	2.41	3.47

Scale 1:100(HOR)
Scale 1:100(VER)

CH 160.00

DATUM12.0

DESIGN SURFACE			13.41	13.45	13.52	13.45	13.35
DEPTH CUT (-) / FILL (+)			0.00	0.05	0.13	0.09	0.00
EXISTING SURFACE			13.41	13.40	13.39	13.36	13.35
OFFSET			-2.68	-2.41	0.00	2.41	2.99

Scale 1:100(HOR)
Scale 1:100(VER)

CH 149.96

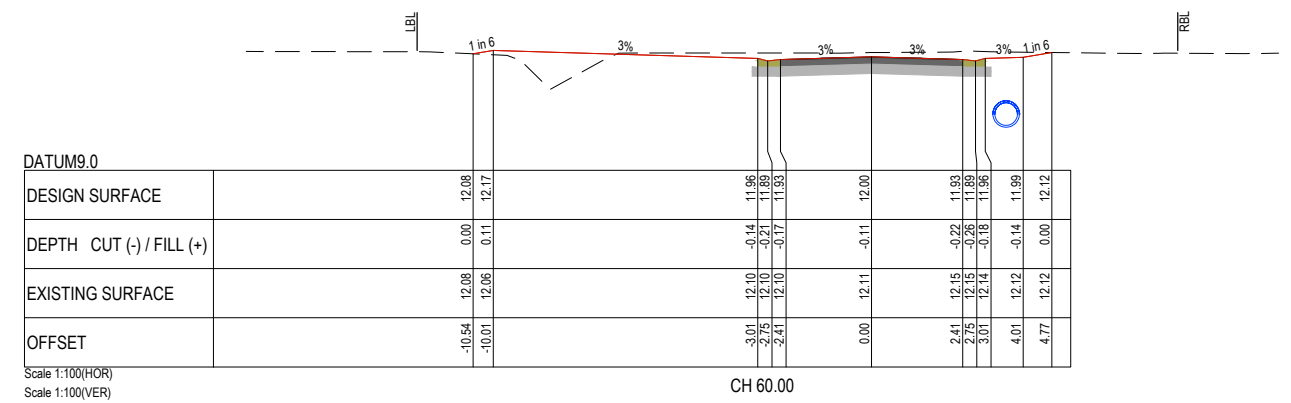
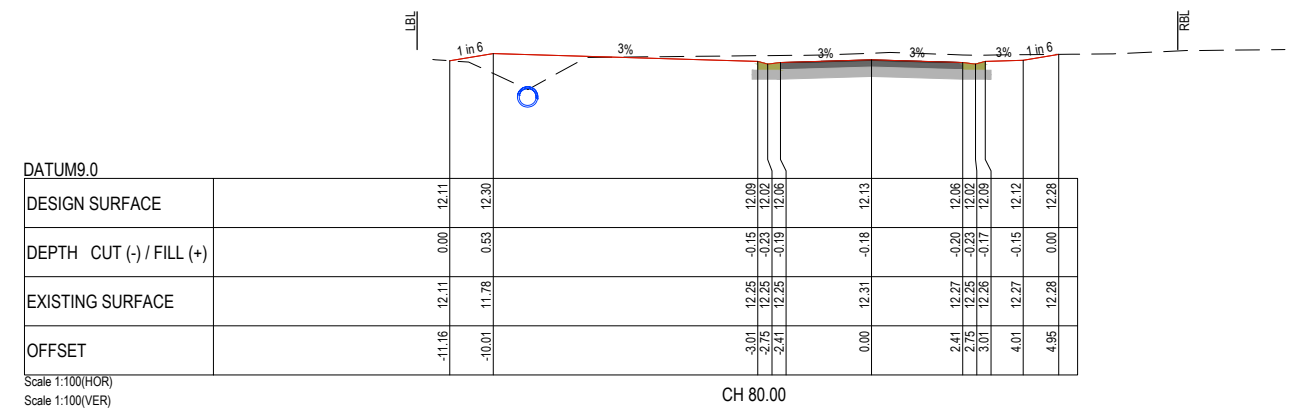
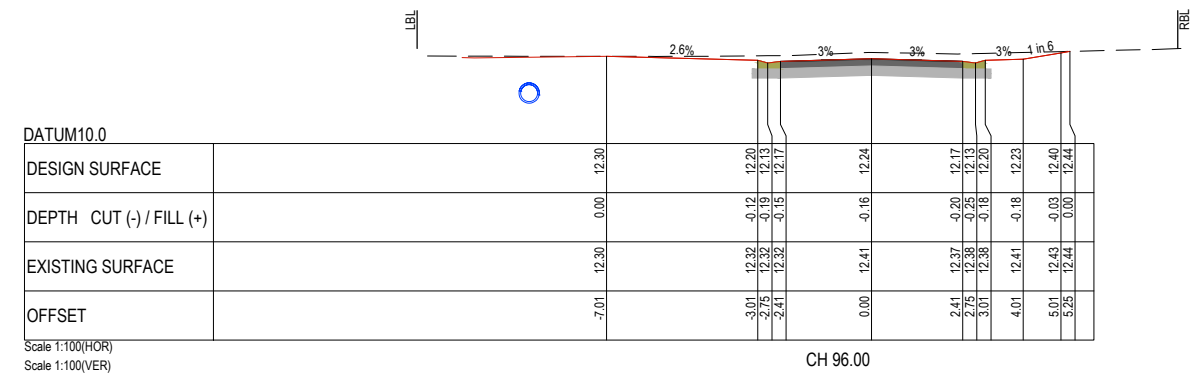
DATUM11.0

DESIGN SURFACE			13.11	13.20	13.15	13.08	13.12	13.19	13.12	13.06	13.15	13.20	13.09
DEPTH CUT (-) / FILL (+)			0.00	0.05	-0.08	-0.16	-0.12	-0.05	-0.07	-0.09	-0.01	0.08	0.00
EXISTING SURFACE			13.11	13.15	13.23	13.24	13.24	13.24	13.19	13.18	13.16	13.12	13.09
OFFSET			-4.54	-4.01	-3.01	-2.75	-2.41	0.00	2.41	2.75	3.01	4.01	4.66

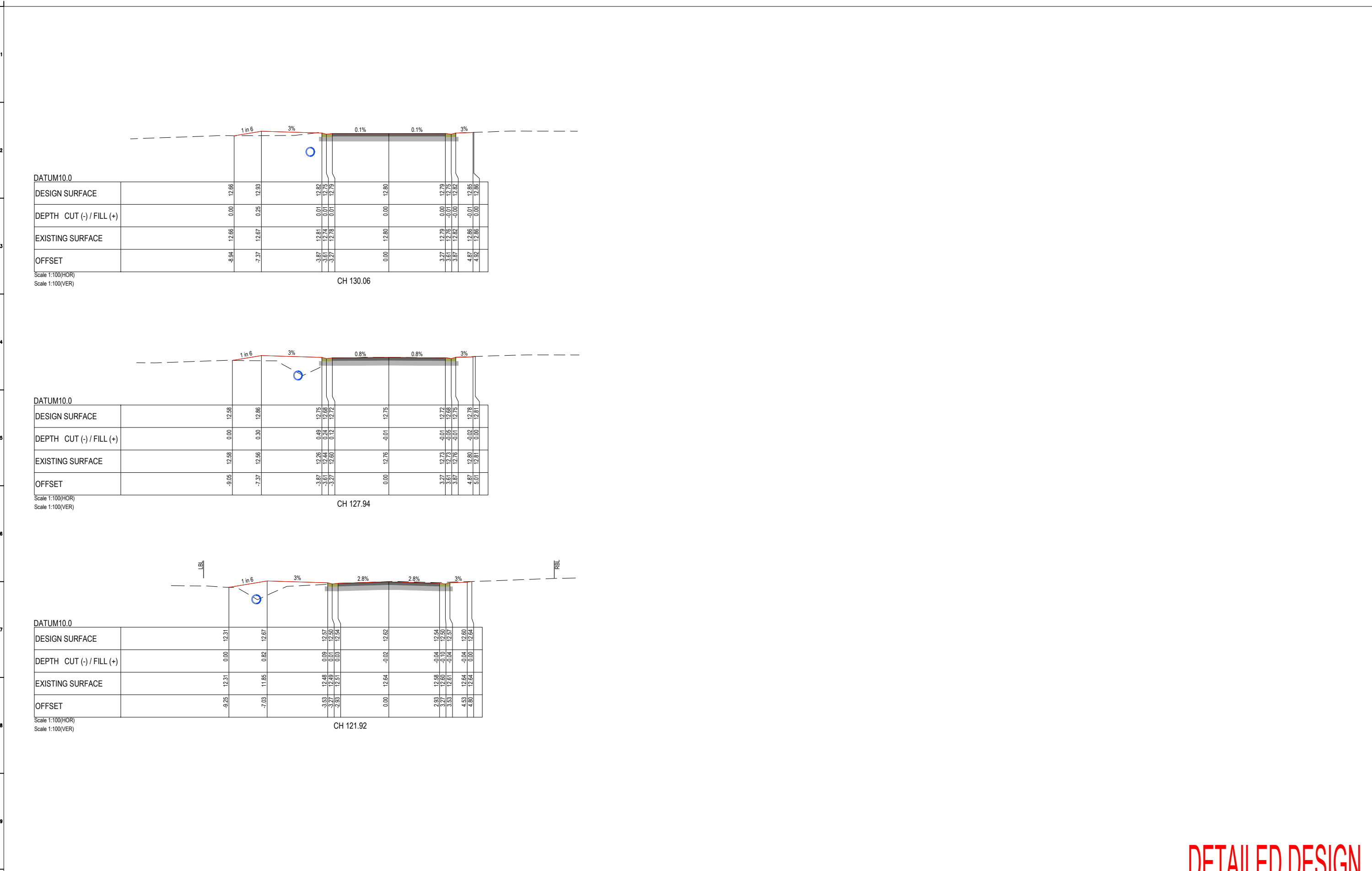
Scale 1:100(HOR)
Scale 1:100(VER)

CH 135.81

DETAILED DESIGN



DETAILED DESIGN



DETAILED DESIGN



Surveying - Engineering - Town Planning
Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134
Email jca@jcalc.com.au www.jcalc.com.au



Quality Management System
ISO 9001
trust-mark.com®

WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



DIAL BEFORE YOU DIG
www.1100.com.au
The Essential First Step

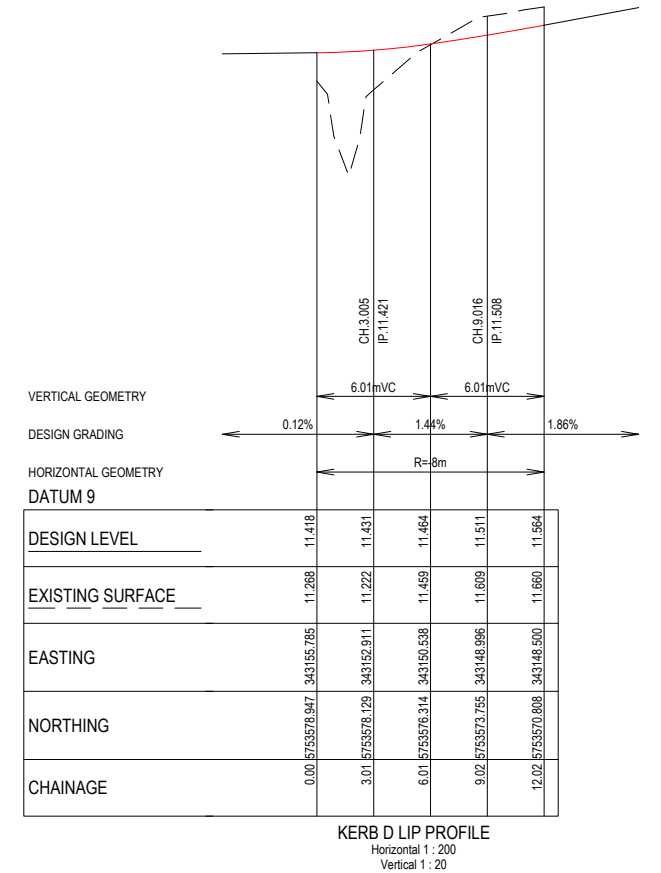
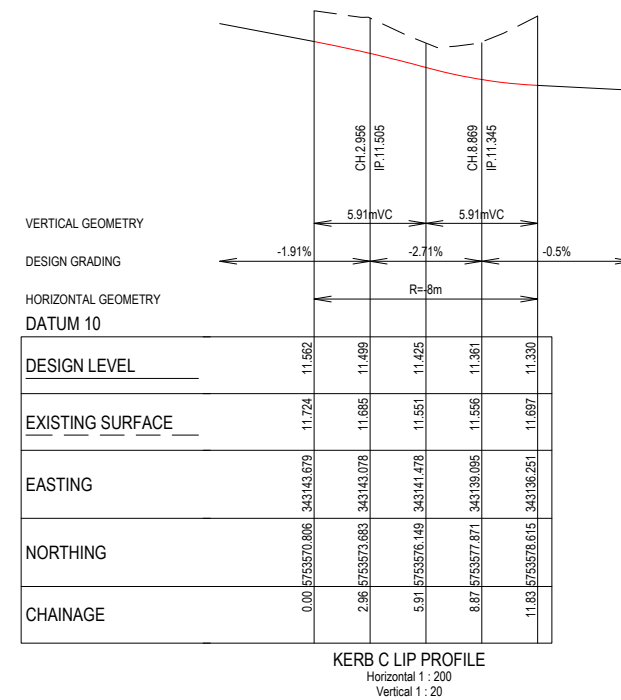
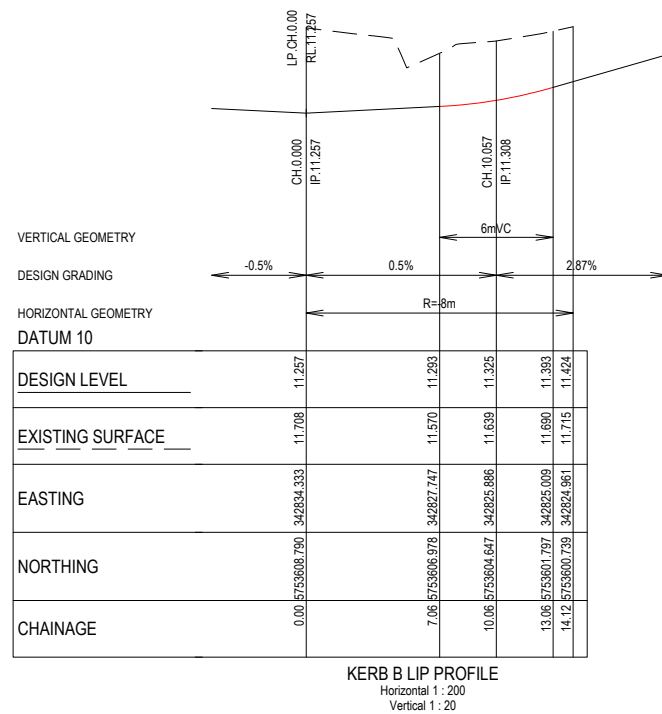
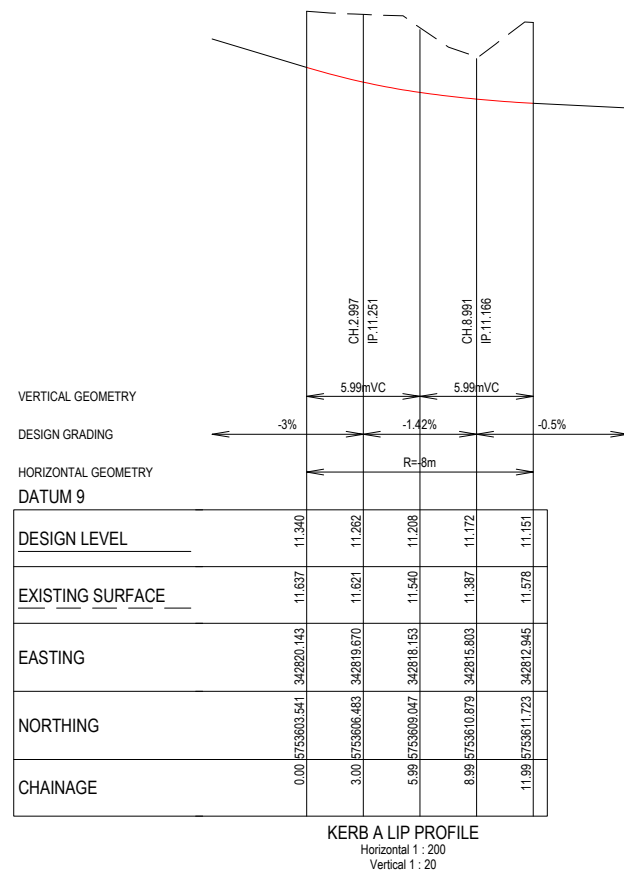
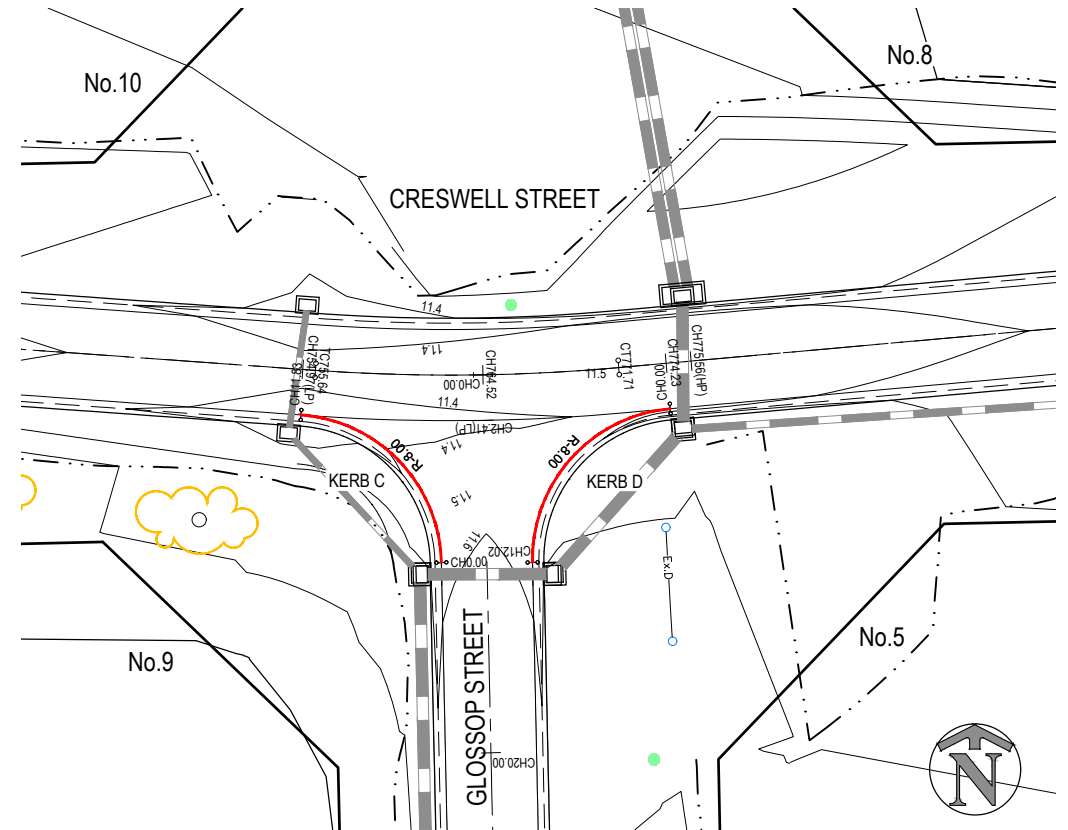
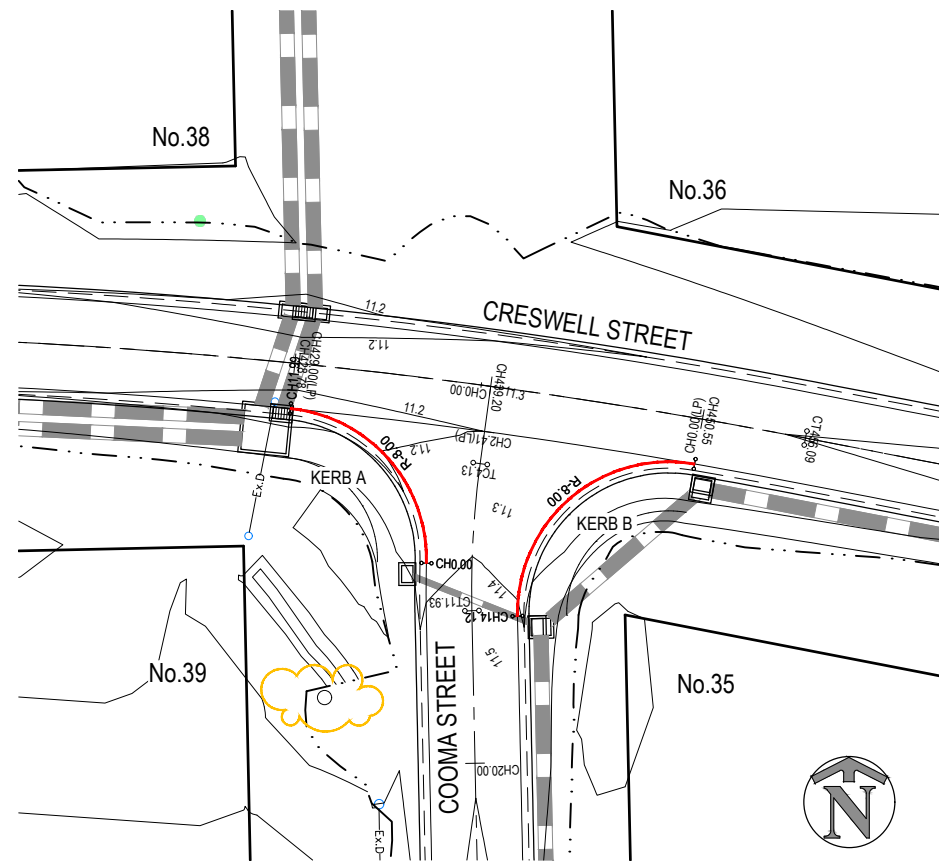
PLAN APPROVED		J 06.03.26 AC COOMA STREET CONCRETE PAVEMENT	COMPUTER REFERENCE	
SIGNED		T 05.03.26 AC COOMA STREET CONCRETE PAVEMENT	PROJECT QA: TBA	
DEREK ROTTER		H 23.09.25 ZG AMENDED GLOSSOP ST OUTFALL	CONTRACT CN: TBA	
MANAGER		G 27.08.25 ZG AMENDED GLOSSOP ST DRAINAGE	CIVIL 3D DWG: 27067_C4	
PROJECT DELIVERY		F 30.07.25 AC AMENDED DESIGN SCOPE COOMA ST	SURVEY: JCA	
		E 20.06.25 AC AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST	DESIGN: AC (JCA)	
		D 29.07.24 ZG AMENDED DETAILED DESIGN	DRAWN: AC (JCA)	
		C 06.12.22 AC DETAILED DESIGN	CHECKED: SP (JCA)	
		No DATE BY	DRAWING REVISION DETAILS	



MORNINGTON PENINSULA
Shire

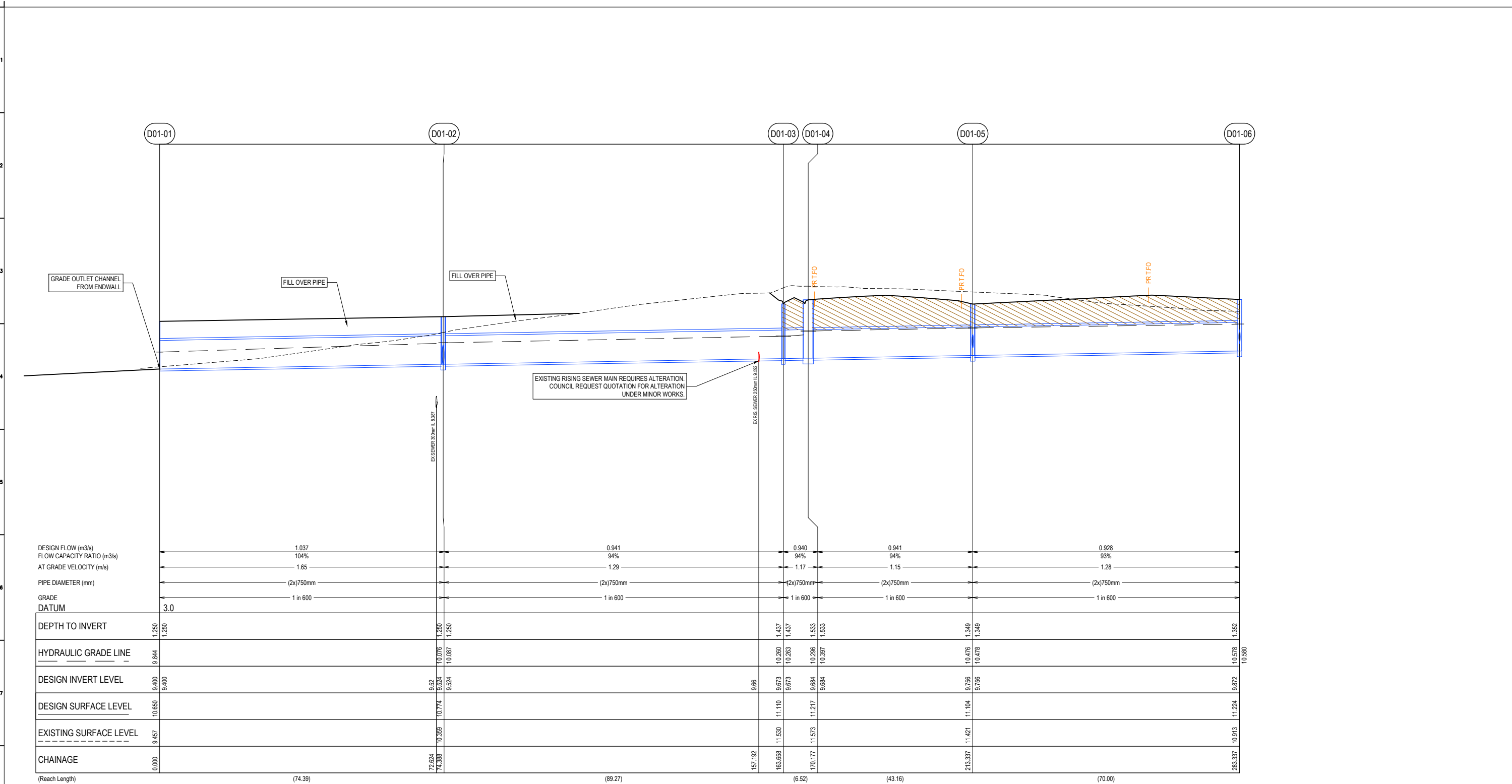
CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST – CRIB POINT
ROAD UPGRADE
ROAD CROSS SECTIONS – GLOSSOP ST

DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C414
PLAN REF No.	27067
REV	09

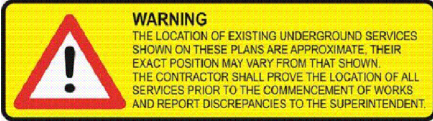


DETAIL PLAN

DETAILED DESIGN



- NOTE:
- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
 - EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVIDED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.



DETAILED

Surveying - Engineering - Town Planning
Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

Quality Management System
ISO 9001
trust-mark.com

WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

DIAL BEFORE YOU DIG
www.1100.com.au
The Essential First Step

PLAN APPROVED

SIGNED _____

DEREK ROTTER
MANAGER
PROJECT DELIVERY

H 05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
G 23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
F 27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
E 20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
D 29.07.24	ZG	AMENDED DETAILED DESIGN
C 06.12.22	AC	DETAILED DESIGN
B 09.05.22	AC	AMENDED FUNCTIONAL DESIGN
A 07.03.22	AC	PRELIMINARY ISSUE
No	DATE	BY

DRAWING REVISION DETAILS

COMPUTER REFERENCE

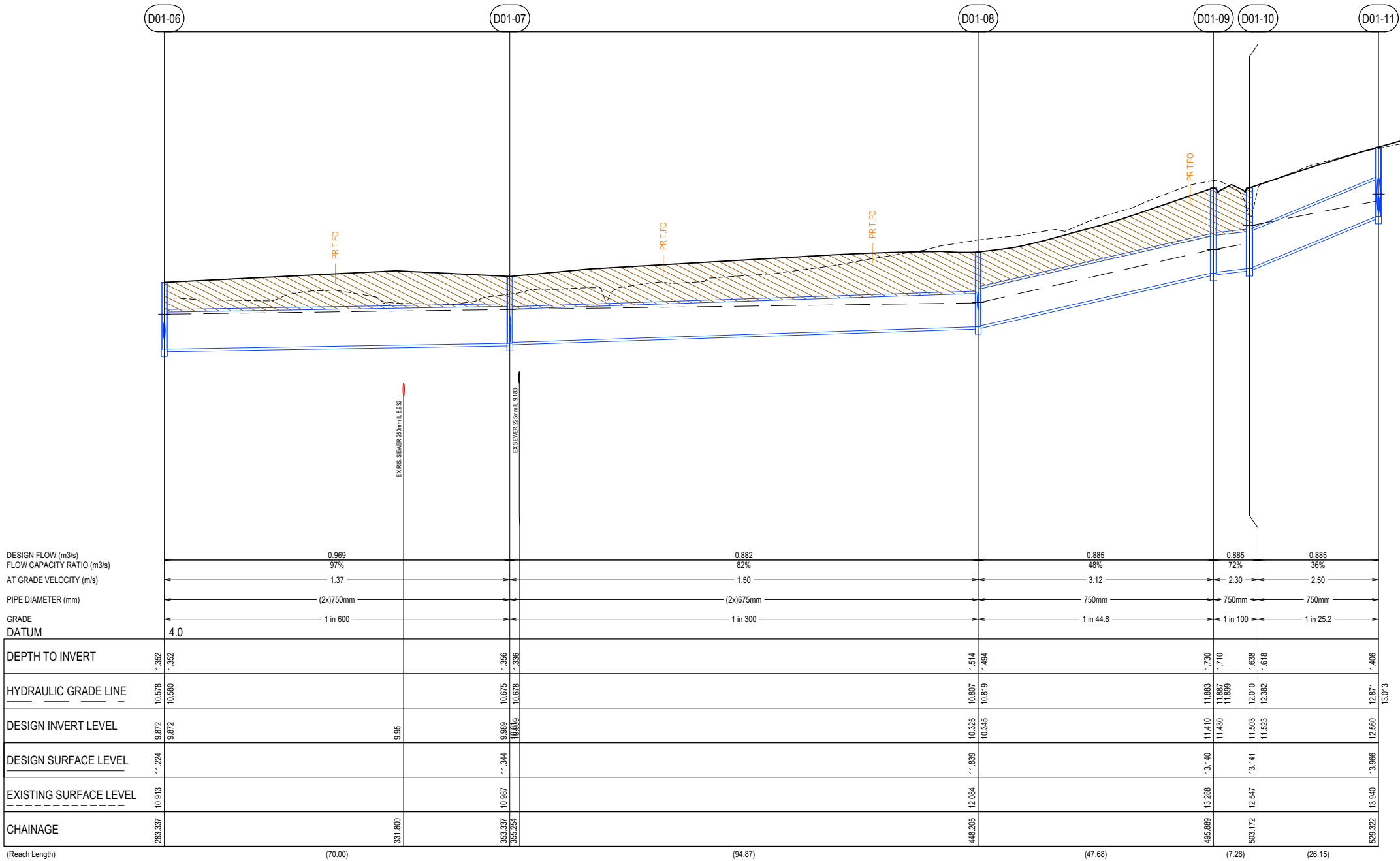
PROJECT QA:	TBA
CONTRACT CN:	TBA
CIVIL 3D DWG:	27067_G6

SURVEY:	JCA
DESIGN:	AC (JCA)
DRAWN:	AC (JCA)
CHECKED:	SP (JCA)

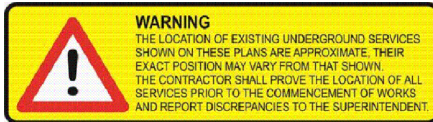
MORNINGTON PENINSULA
Shire

CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST - CRIB POINT
ROAD UPGRADE
DRAINAGE LONGITUDINAL SECTIONS

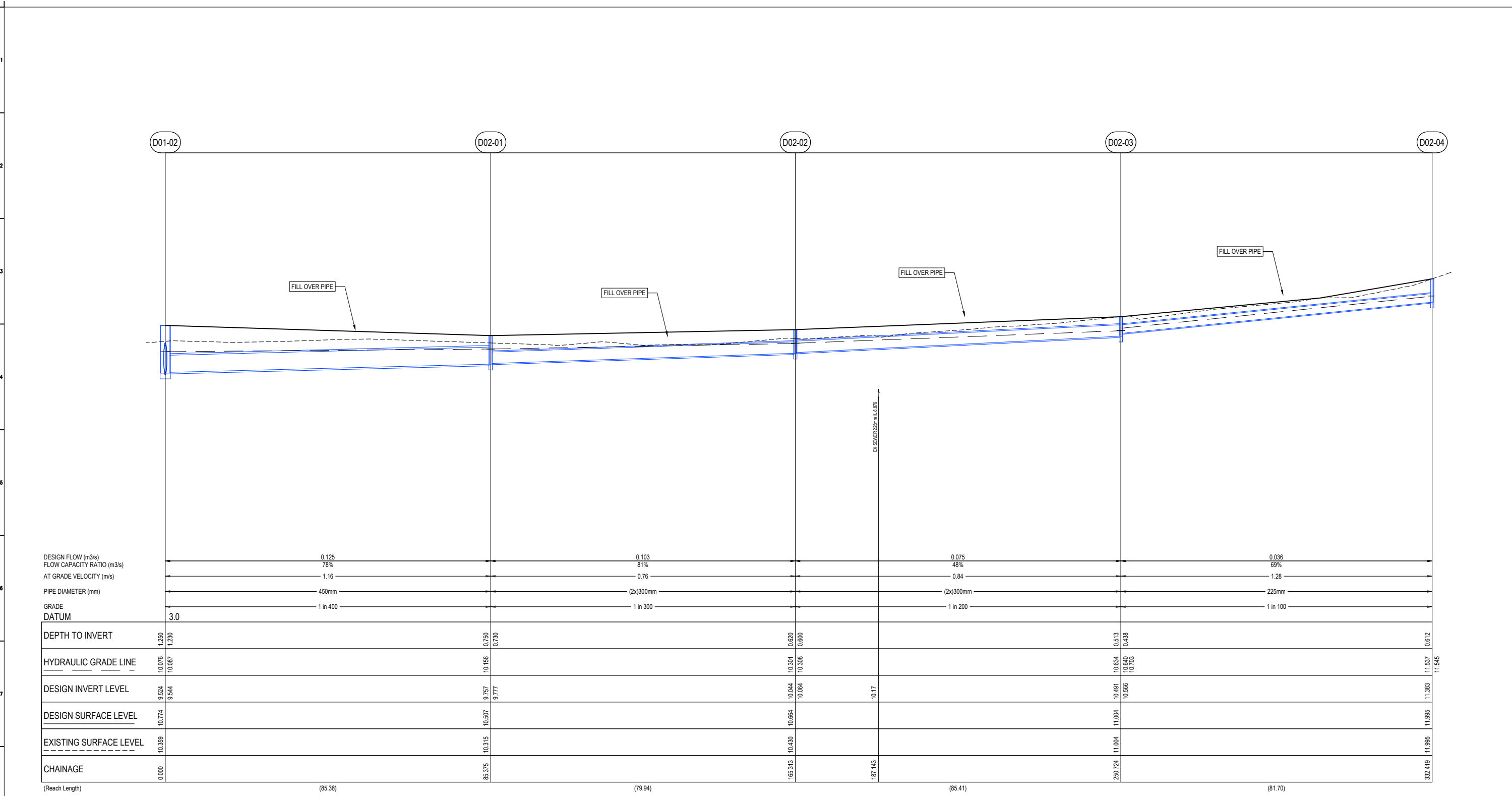
DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLANE:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C601
PLAN REF No.	27067
REV	07



- NOTE:
- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
 - EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.



DETAILED



- NOTE:
- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
 - EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.

WARNING

THE LOCATION OF EXISTING UNDERGROUND SERVICES SHOWN ON THESE PLANS ARE APPROXIMATE. THEIR EXACT POSITION MAY VARY FROM THAT SHOWN. THE CONTRACTOR SHALL PROVE THE LOCATION OF ALL SERVICES PRIOR TO THE COMMENCEMENT OF WORKS AND REPORT DISCREPANCIES TO THE SUPERINTENDENT.

Telstra

WARNING

OPTICAL FIBRE

IN AREA

DETAILED

Surveying - Engineering - Town Planning

Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134

Phone 03 9735 4888 Email jca@jca.com.au www.jca.com.au

WARNING

BEWARE - UNDERGROUND SERVICES

THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

PLAN APPROVED

SIGNED _____

DEREK ROTTER
MANAGER
PROJECT DELIVERY

H 05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
G 23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
F 27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
E 20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
D 29.07.24	ZG	AMENDED DETAILED DESIGN
C 06.12.22	AC	DETAILED DESIGN
B 09.05.22	AC	AMENDED FUNCTIONAL DESIGN
A 07.03.22	AC	PRELIMINARY ISSUE
No	DATE	BY

DRAWING REVISION DETAILS

COMPUTER REFERENCE	
PROJECT QA:	TBA
CONTRACT CN:	TBA
CIVIL 3D DWG:	27067_G6
SURVEY:	JCA
DESIGN:	AC (JCA)
DRAWN:	AC (JCA)
CHECKED:	SP (JCA)

CRESWELL STREET EAST / COOMA STREET

CRESWELL STREET EAST – CRIB POINT

ROAD UPGRADE

DRAINAGE LONGITUDINAL SECTIONS

DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C603
PLAN REF No.	27067
REV	07

DESIGN FLOW (m3/s)	0.005
FLOW CAPACITY RATIO (m3/s)	5%
AT GRADE VELOCITY (m/s)	0.64
PIPE DIAMETER (mm)	300mm
GRADE DATUM	3.0
DEPTH TO INVERT	1.349
HYDRAULIC GRADE LINE	10.476
DESIGN INVERT LEVEL	9.756
DESIGN SURFACE LEVEL	11.04
EXISTING SURFACE LEVEL	11.421
CHAINAGE	0.000

(Reach Length)

(6.16)

DESIGN FLOW (m3/s)	0.005
FLOW CAPACITY RATIO (m3/s)	5%
AT GRADE VELOCITY (m/s)	0.67
PIPE DIAMETER (mm)	300mm
GRADE DATUM	3.0
DEPTH TO INVERT	1.352
HYDRAULIC GRADE LINE	10.578
DESIGN INVERT LEVEL	9.872
DESIGN SURFACE LEVEL	11.224
EXISTING SURFACE LEVEL	10.913
CHAINAGE	0.000

(6.16)

DESIGN FLOW (m3/s)	0.008
FLOW CAPACITY RATIO (m3/s)	8%
AT GRADE VELOCITY (m/s)	0.75
PIPE DIAMETER (mm)	300mm
GRADE DATUM	4.0
DEPTH TO INVERT	1.356
HYDRAULIC GRADE LINE	10.675
DESIGN INVERT LEVEL	9.989
DESIGN SURFACE LEVEL	11.344
EXISTING SURFACE LEVEL	10.987
CHAINAGE	0.000

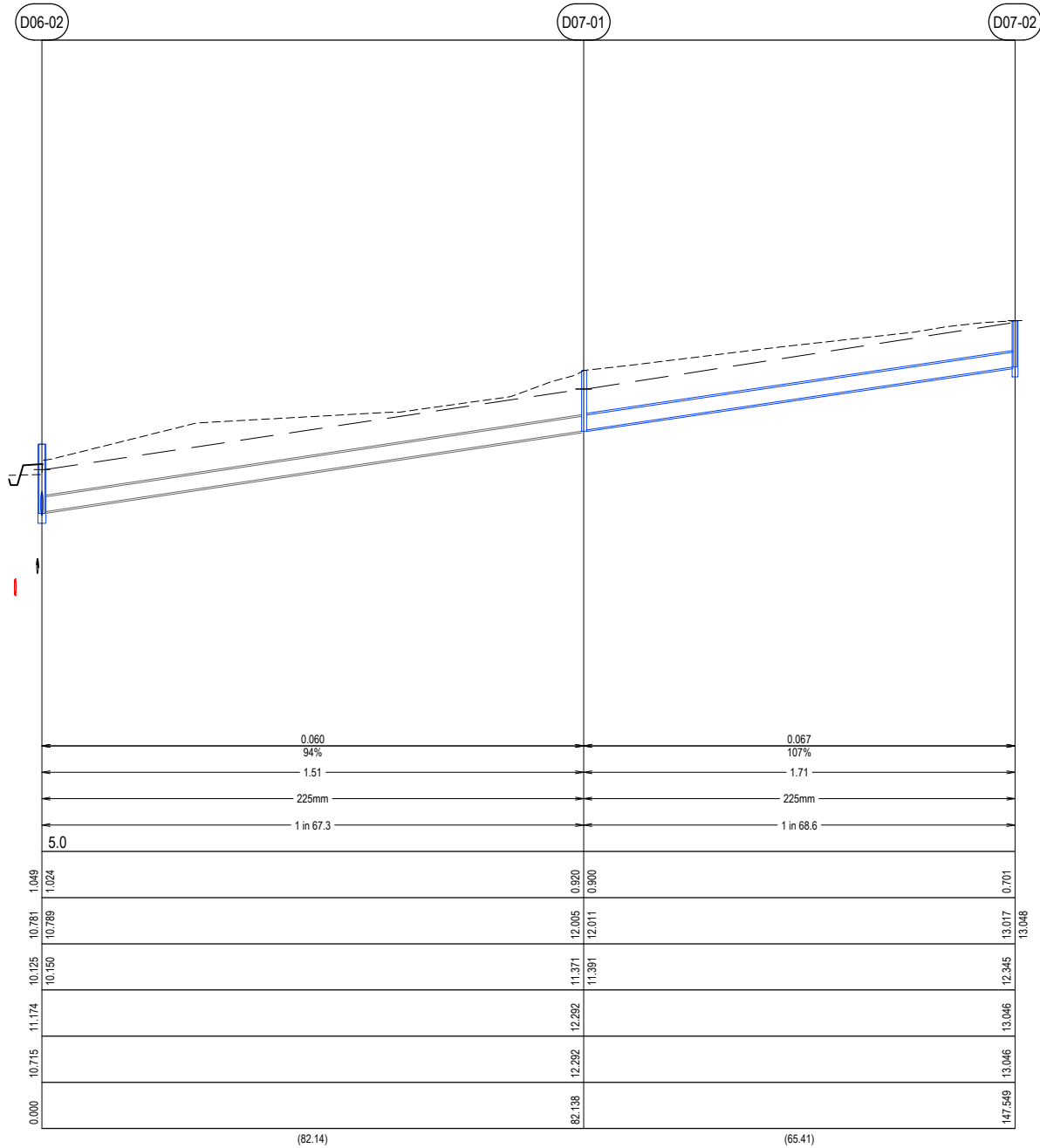
(6.16)

DESIGN FLOW (m3/s)	0.136
FLOW CAPACITY RATIO (m3/s)	87%
AT GRADE VELOCITY (m/s)	0.96
PIPE DIAMETER (mm)	2x300mm
GRADE DATUM	3.0
DEPTH TO INVERT	1.356
HYDRAULIC GRADE LINE	10.675
DESIGN INVERT LEVEL	10.039
DESIGN SURFACE LEVEL	10.774
EXISTING SURFACE LEVEL	10.715
CHAINAGE	0.000

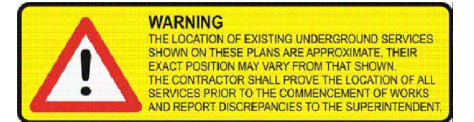
(4.32)

DESIGN FLOW (m3/s)	0.098
FLOW CAPACITY RATIO (m3/s)	88%
AT GRADE VELOCITY (m/s)	1.39
PIPE DIAMETER (mm)	300mm
GRADE DATUM	3.0
DEPTH TO INVERT	1.356
HYDRAULIC GRADE LINE	10.675
DESIGN INVERT LEVEL	10.039
DESIGN SURFACE LEVEL	11.174
EXISTING SURFACE LEVEL	10.715
CHAINAGE	0.000

(4.44)



- NOTE:
- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
 - EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.



DETAILED



WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

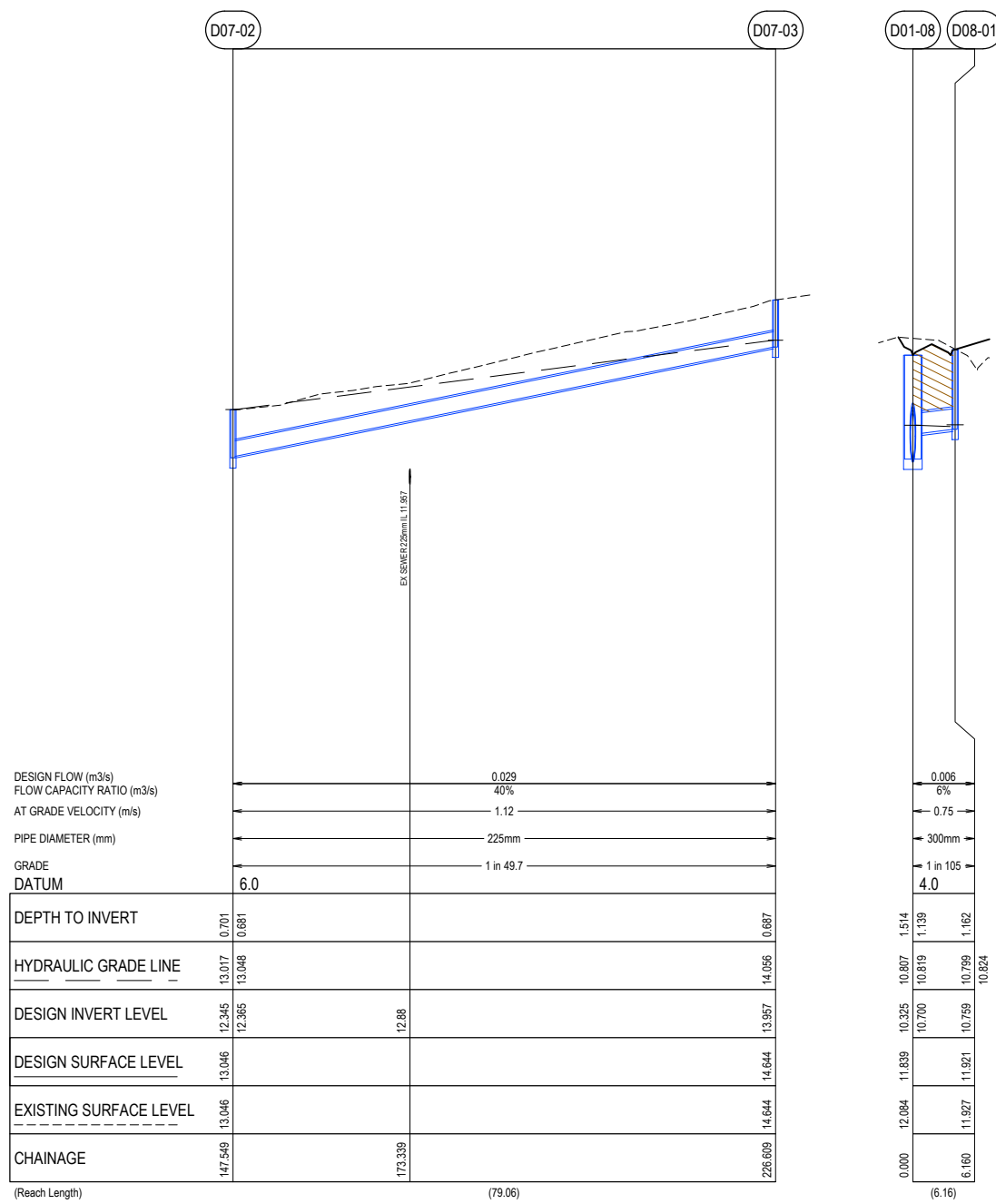


PLAN APPROVED	H 05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
	G 23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
	F 27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
	E 20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
	D 29.07.24	ZG	AMENDED DETAILED DESIGN
	C 06.12.22	AC	DETAILED DESIGN
	B 09.05.22	AC	AMENDED FUNCTIONAL DESIGN
	A 07.03.22	AC	PRELIMINARY ISSUE
SIGNED	DEREK ROTTER	MANAGER	PROJECT DELIVERY

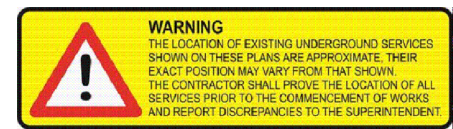
COMPUTER REFERENCE	PROJECT QA: TBA
	CONTRACT CN: TBA
	CIVIL 3D DWG: 27067_G6
	SURVEY: JCA
	DESIGN: AC (JCA)
	DRAWN: AC (JCA)
	CHECKED: SP (JCA)



CRESWELL STREET EAST / COOMA STREET	
CRESWELL STREET EAST - CRIB POINT	
ROAD UPGRADE	
DRAINAGE LONGITUDINAL SECTIONS	
DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C604
PLAN REF No.	27067
REV	07



- NOTE:
- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
 - EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.



DETAILED



JCA Land Consultants
Surveying - Engineering - Town Planning
Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jca.com.au www.jca.com.au



Quality Management System
ISO 9001
trust-mark.com

WARNING
BWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



DIAL BEFORE YOU DIG
www.1100.com.au
The Essential First Step

PLAN APPROVED

SIGNED

DEREK ROTTER
MANAGER
PROJECT DELIVERY

H 05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
G 23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
F 27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
E 20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
D 29.07.24	ZG	AMENDED DETAILED DESIGN
C 06.12.22	AC	DETAILED DESIGN
B 09.05.22	AC	AMENDED FUNCTIONAL DESIGN
A 07.03.22	AC	PRELIMINARY ISSUE
No	DATE	BY
DRAWING REVISION DETAILS		

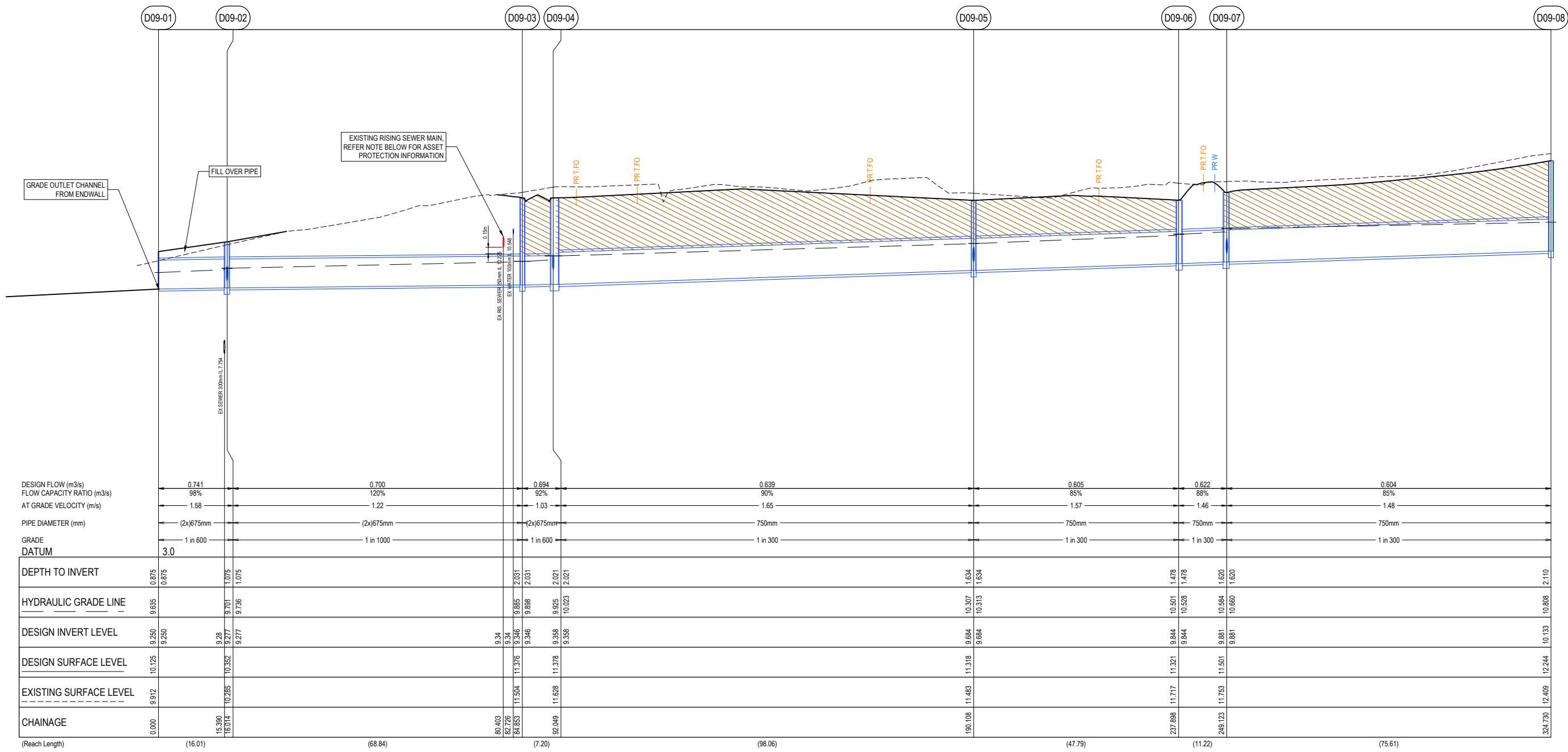
COMPUTER REFERENCE	
PROJECT QA:	TBA
CONTRACT CN:	TBA
CIVIL 3D DWG:	27067_G6
SURVEY:	JCA
DESIGN:	AC (JCA)
DRAWN:	AC (JCA)
CHECKED:	SP (JCA)



MORNINGTON PENINSULA
Shire

CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST – CRIB POINT
ROAD UPGRADE
DRAINAGE LONGITUDINAL SECTIONS

DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLANE:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C605
PLAN REF No.	27067
REV	07



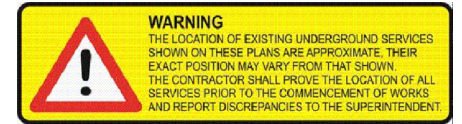
DESIGN FLOW (m3/s)	0.741	0.700	0.694	0.639	0.605	0.622	0.604
FLOW CAPACITY RATIO (m3/s)	98%	120%	92%	90%	85%	88%	85%
AT GRADE VELOCITY (m/s)	1.58	1.22	1.03	1.65	1.57	1.46	1.48
PIPE DIAMETER (mm)	(2x)675mm	(2x)675mm	(2x)675mm	750mm	750mm	750mm	750mm
GRADE	1 in 600	1 in 1000	1 in 600	1 in 300	1 in 300	1 in 300	1 in 300
DATUM	3.0						
DEPTH TO INVERT	0.875	0.875	1.075	1.075			
HYDRAULIC GRADE LINE	9.635		9.701	9.736			
DESIGN INVERT LEVEL	9.250	9.250	9.28	9.277	9.277	9.277	9.277
DESIGN SURFACE LEVEL	10.125		10.352	10.352	10.352	10.352	10.352
EXISTING SURFACE LEVEL	9.912		10.285	10.285	10.285	10.285	10.285
CHAINAGE	0.000	15.900	80.403	82.726	84.853	92.049	324.730
(Reach Length)	(16.01)	(68.84)	(7.20)	(98.06)	(47.79)	(11.22)	(75.61)

NOTE:

- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
- EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.

RISING SEWER MAIN NOTES:

- NO MORE THAN ONE PIPE JOINT SHALL BE EXPOSED AT ANY ONE TIME
- EXISTING RISING SEWER SHALL BE TEMPORARILY SUPPORTED DURING CONSTRUCTION FROM SURFACE USING TIMBERS AND SOFT SLINGS
- DRAINAGE TRENCH 2m EITHER SIDE OF RISING SEWER CROSSING SHALL BE BACKFILLED IN ACCORDANCE WITH MRWA-S-202 (TYPE B) CEMENT STABILISED SAND TO PREVENT THE NEED FOR MECHANICAL COMPACTION
- A PROTECTION SLAB IN ACCORDANCE WITH MRWA-S-202 (TYPE F) SHALL BE INSTALLED UNDER THE SEWER



DETAILED

JCA Land Consultants
Surveying - Engineering - Town Planning
Suite 9, 303 Maroonah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jca.com.au www.jca.com.au

WARNING
BEWARE - UNDERGROUND SERVICES

THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

DIAL BEFORE YOU DIG
www.1100.com.au
The Essential First Step

PLAN APPROVED

SIGNED _____

DEREK ROTTER
MANAGER
PROJECT DELIVERY

H 05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
G 23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
F 27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
E 20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
D 29.07.24	ZG	AMENDED DETAILED DESIGN
C 06.12.22	AC	DETAILED DESIGN
B 09.05.22	AC	AMENDED FUNCTIONAL DESIGN
A 07.03.22	AC	PRELIMINARY ISSUE
No	DATE	BY
DRAWING REVISION DETAILS		

COMPUTER REFERENCE	
PROJECT QA:	TBA
CONTRACT CN:	TBA
CIVIL 3D DWG:	27067_06
SURVEY:	JCA
DESIGN:	AC (JCA)
DRAWN:	AC (JCA)
CHECKED:	SP (JCA)

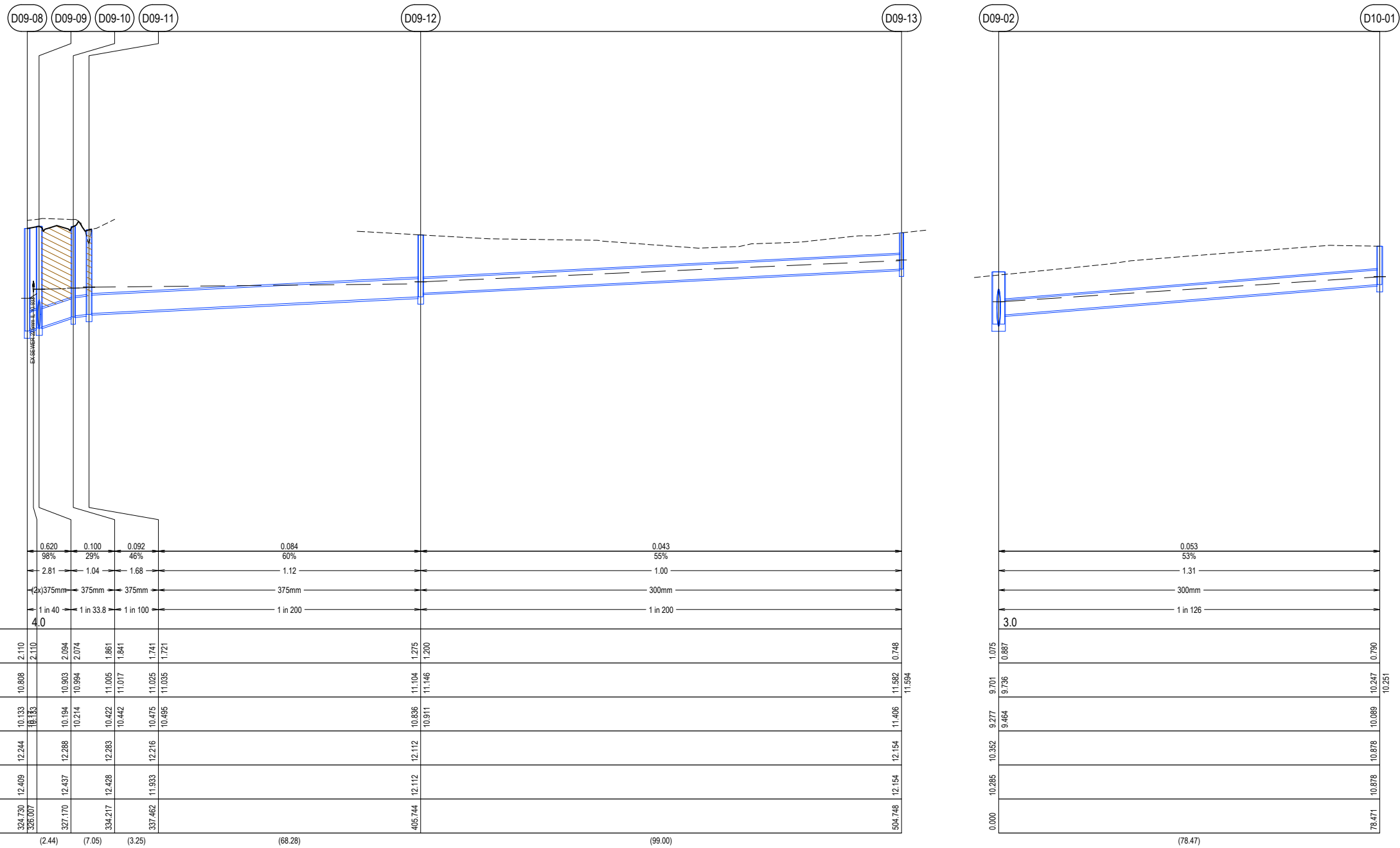
CRESWELL STREET EAST / COOMA STREET

CRESWELL STREET EAST – CRIB POINT

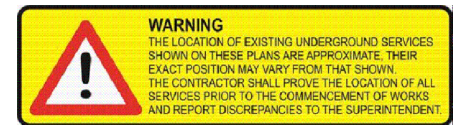
ROAD UPGRADE

DRAINAGE LONGITUDINAL SECTIONS

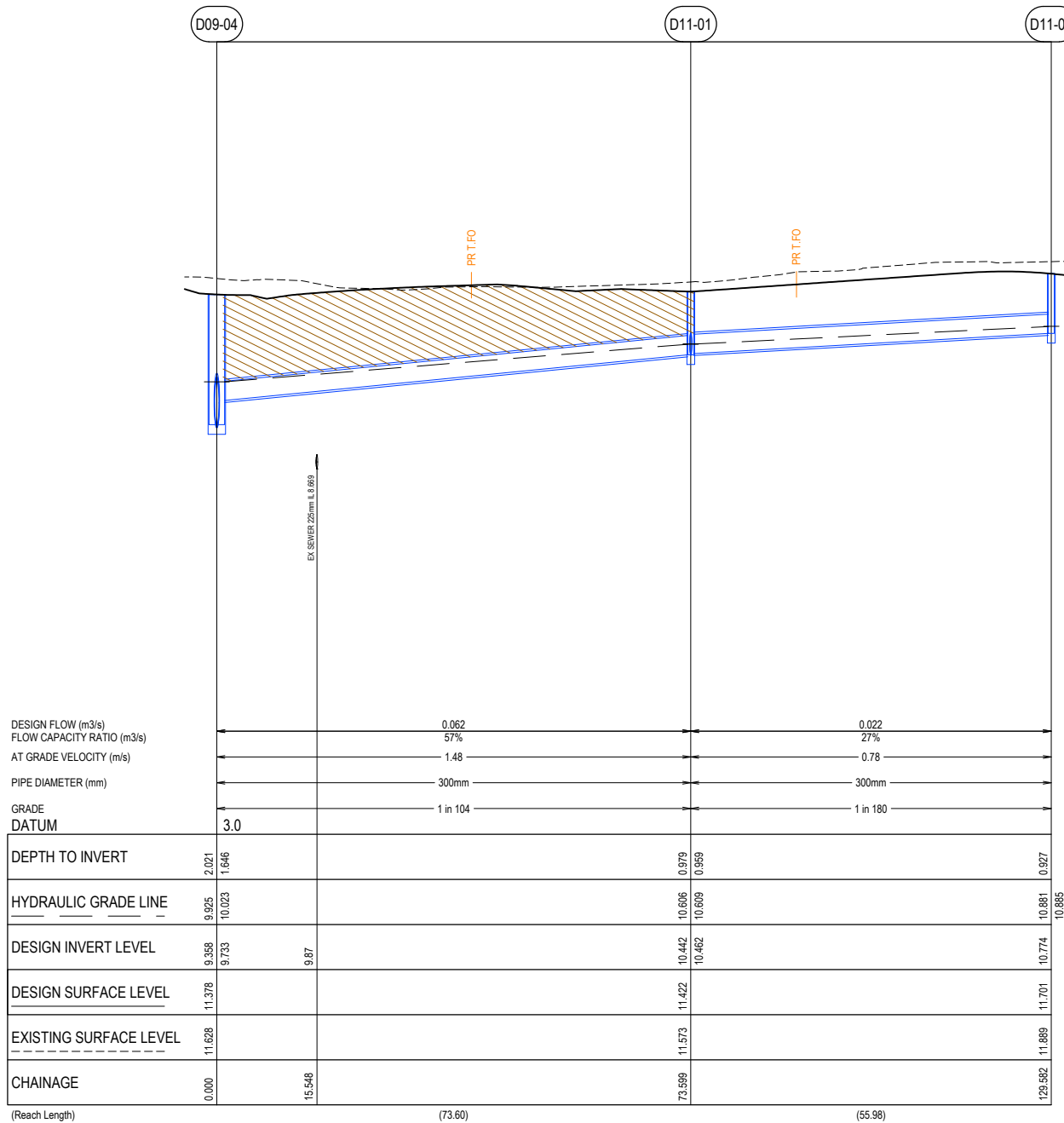
DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C606
PLAN REF No.	27067
REV	07



- NOTE:
- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
 - EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.

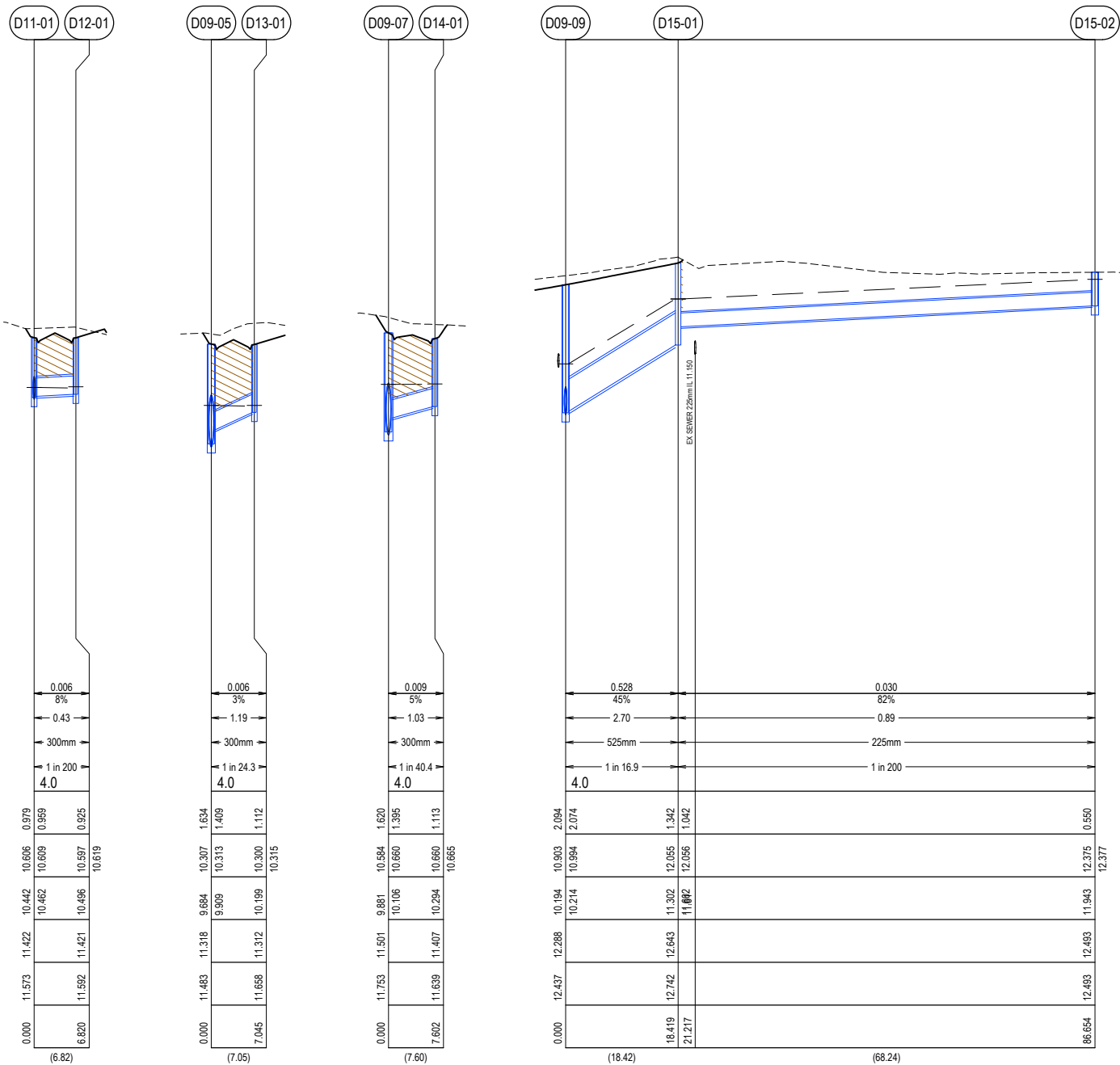


DETAILED



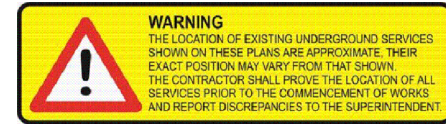
DESIGN FLOW (m3/s)			0.062			0.022
FLOW CAPACITY RATIO (m3/s)			57%			27%
AT GRADE VELOCITY (m/s)			1.48			0.78
PIPE DIAMETER (mm)			300mm			300mm
GRADE DATUM			1 in 104			1 in 180
DEPTH TO INVERT	2.021	1.646		0.979	0.959	0.927
HYDRAULIC GRADE LINE	9.925	10.023		10.606	10.609	10.881
DESIGN INVERT LEVEL	9.358	9.733	9.87	10.442	10.462	10.774
DESIGN SURFACE LEVEL	11.378			11.422		11.701
EXISTING SURFACE LEVEL	11.628			11.573		11.889
CHAINAGE	0.000	15.548		73.599		123.582
(Reach Length)			(73.60)			(55.98)

(Reach Length) (73.60) (55.98)



DESIGN FLOW (m³/s)	0.006	0.006	0.009	0.528	0.030
FLOW CAPACITY RATIO (m³/s)	8%	3%	5%	45%	82%
AT GRADE VELOCITY (m/s)	0.43	1.19	1.03	2.70	0.89
PIPE DIAMETER (mm)	300mm	300mm	300mm	525mm	225mm
GRADE DATUM	1 in 200	1 in 24.3	1 in 40.4	1 in 16.9	1 in 200
DEPTH TO INVERT	4.0	4.0	4.0	4.0	0.550
HYDRAULIC GRADE LINE					
DESIGN INVERT LEVEL	10.606 10.609 10.597 10.619	10.307 10.313 10.300 10.315	10.584 10.660 10.660 10.665	10.903 10.994 10.994 10.994	12.375 12.377
DESIGN SURFACE LEVEL	11.422 11.421 11.421 11.421	11.318 9.909 10.106 10.198	11.501 10.881 10.106 10.294	12.288 10.194 10.214 11.892	12.493 11.943
EXISTING SURFACE LEVEL	11.573 11.592 11.592 11.592	11.483 11.658 11.658 11.658	11.753 11.639 11.639 11.639	12.437 12.742 12.742 12.742	12.493 11.943
CHAINAGE	0.000 6.820	0.000 7.045	0.000 7.602	0.000 18.419 21.217	86.654

- NOTE:
- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
 - EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVIDED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.



DETAILED

Surveying - Engineering - Town Planning
Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jca.com.au www.jca.com.au

Quality Management System ISO 9001 trustmark.com.au

WARNING
BEWARE - UNDERGROUND SERVICES

THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

The Essential First Step

PLAN APPROVED

SIGNED

DEREK ROTTER
MANAGER
PROJECT DELIVERY

H	05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
G	23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
F	27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
E	20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
D	29.07.24	ZG	AMENDED DETAILED DESIGN
C	06.12.22	AC	DETAILED DESIGN
B	09.05.22	AC	AMENDED FUNCTIONAL DESIGN
A	07.03.22	AC	PRELIMINARY ISSUE
No	DATE	BY	DRAWING REVISION DETAILS

COMPUTER REFERENCE

PROJECT QA: TBA
CONTRACT CN: TBA
CIVIL 3D DWG: 27067_C6

SURVEY: JCA
DESIGN: AC (JCA)
DRAWN: AC (JCA)
CHECKED: SP (JCA)

MORNINGTON PENINSULA Shire

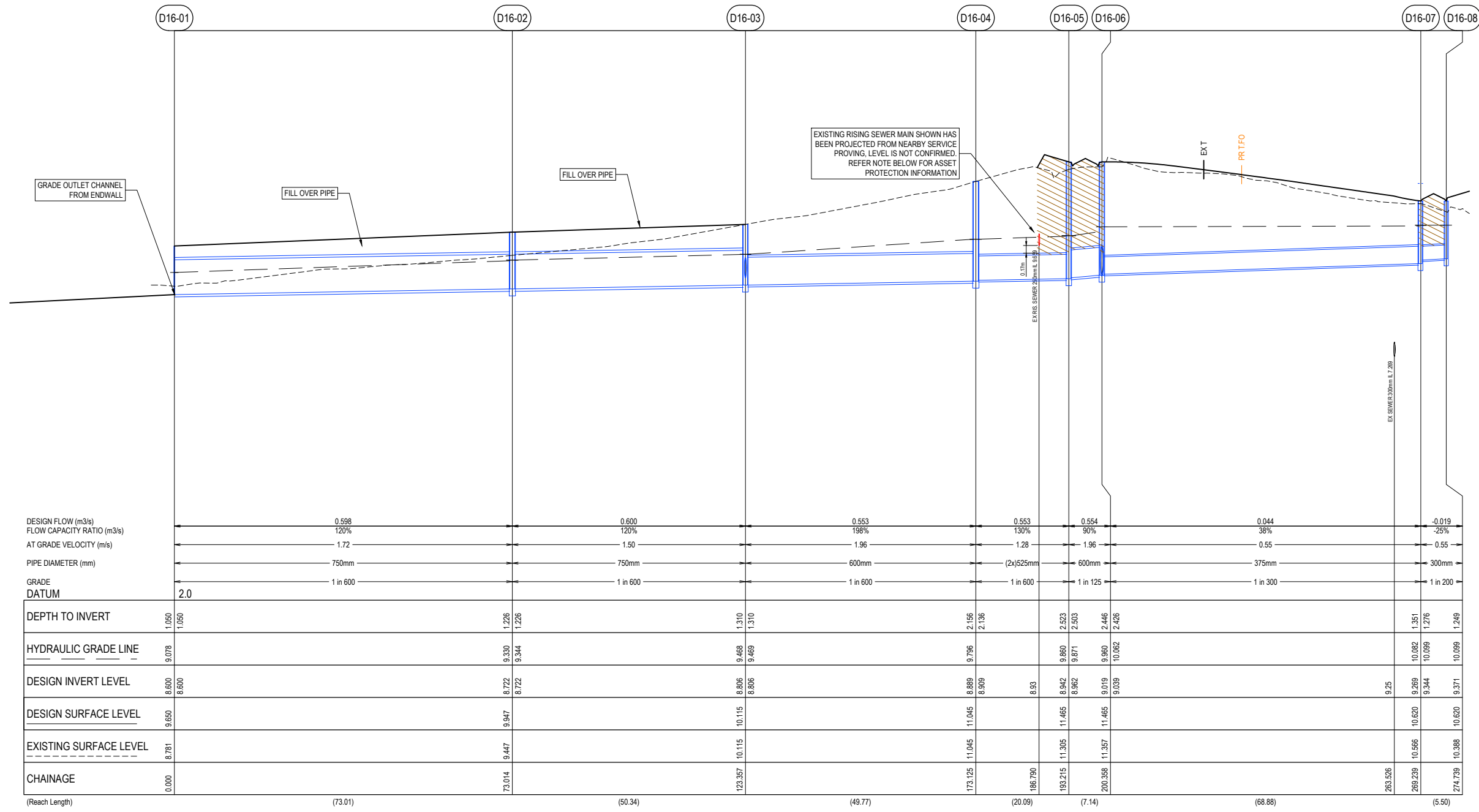
CRESWELL STREET EAST / COOMA STREET

CRESWELL STREET EAST - CRIB POINT

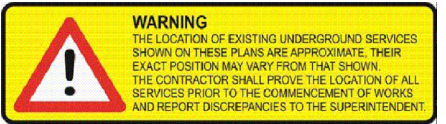
ROAD UPGRADE

DRAINAGE LONGITUDINAL SECTIONS

DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLANE:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C608
PLAN REF No.	27067
REV	07



- NOTE:
- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
 - EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.
- SEWER MAIN NOTES:
- NO MORE THAN ONE PIPE JOINT SHALL BE EXPOSED AT ANY ONE TIME
 - EXISTING RISING SEWER SHALL BE TEMPORARILY SUPPORTED DURING CONSTRUCTION FROM SURFACE USING TIMBERS AND SOFT SLINGS
 - DRAINAGE TRENCH 2m EITHER SIDE OF RISING SEWER CROSSING SHALL BE BACKFILLED IN ACCORDANCE WITH MRWA-S-202 (TYPE B) CEMENT STABILISED SAND TO PREVENT THE NEED FOR MECHANICAL COMPACTION
 - A PROTECTION SLAB IN ACCORDANCE WITH MRWA-S-202 (TYPE F) SHALL BE INSTALLED UNDER THE SEWER



DETAILED

Surveying - Engineering - Town Planning
Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jca.com.au www.jca.com.au

WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

The Essential First Step

PLAN APPROVED

SIGNED

DEREK ROTHER
MANAGER
PROJECT DELIVERY

H 05.03.26	AC	COOMA STREET CONCRETE PAVEMENT
G 23.09.25	ZG	AMENDED GLOSSOP ST OUTFALL
F 27.08.25	ZG	AMENDED GLOSSOP ST DRAINAGE
E 20.06.25	AC	AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
D 29.07.24	ZG	AMENDED DETAILED DESIGN
C 06.12.22	AC	DETAILED DESIGN
B 09.05.22	AC	AMENDED FUNCTIONAL DESIGN
A 07.03.22	AC	PRELIMINARY ISSUE
No	DATE	BY

DRAWING REVISION DETAILS

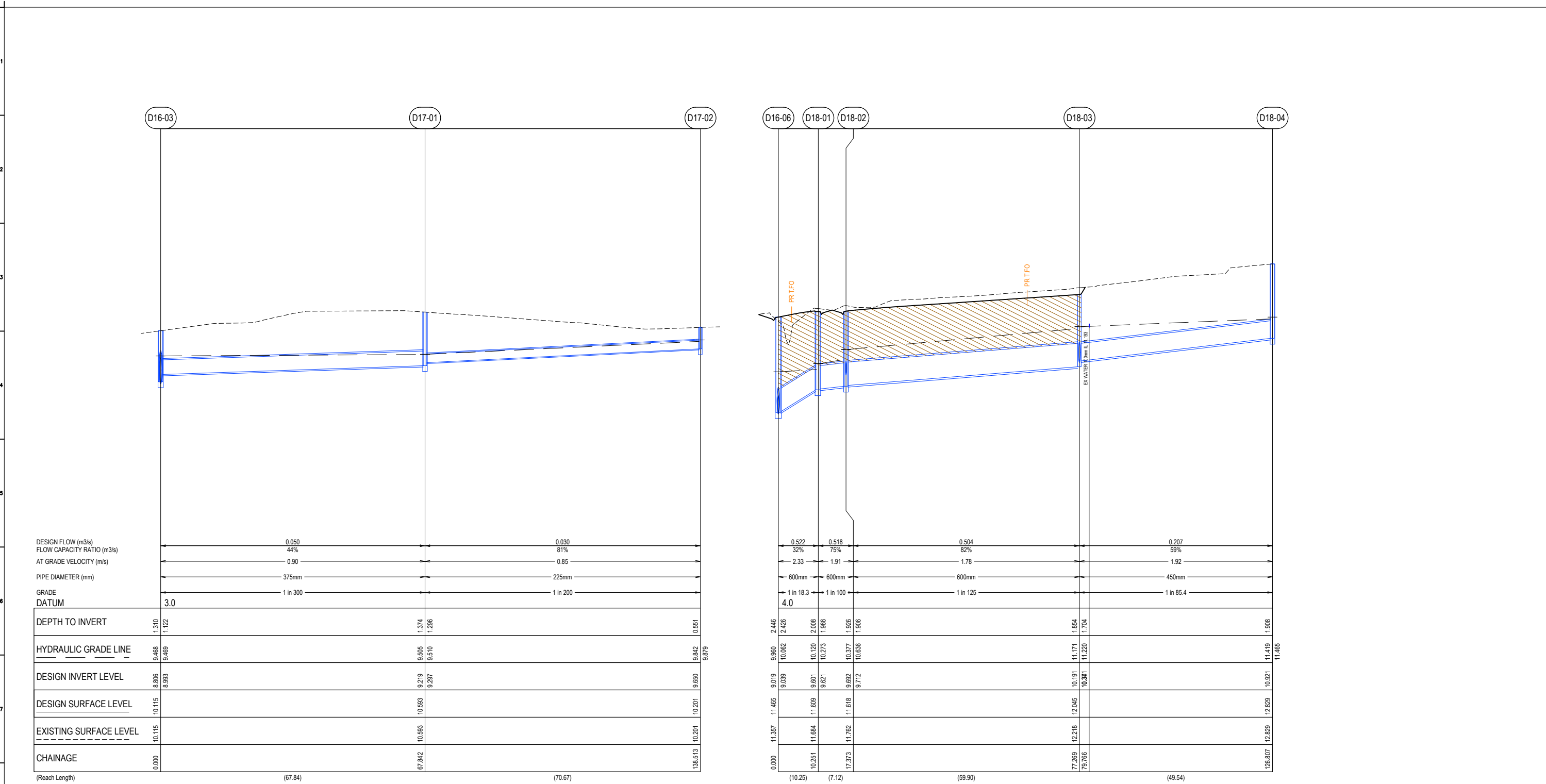
COMPUTER REFERENCE

PROJECT QA:	TBA
CONTRACT CN:	TBA
CIVIL 3D DWG:	27067_C6
SURVEY:	JCA
DESIGN:	AC (JCA)
DRAWN:	AC (JCA)
CHECKED:	SP (JCA)

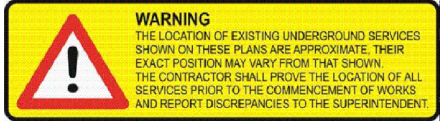
MORNINGTON PENINSULA
Shire

CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST - CRIB POINT
ROAD UPGRADE
DRAINAGE LONGITUDINAL SECTIONS

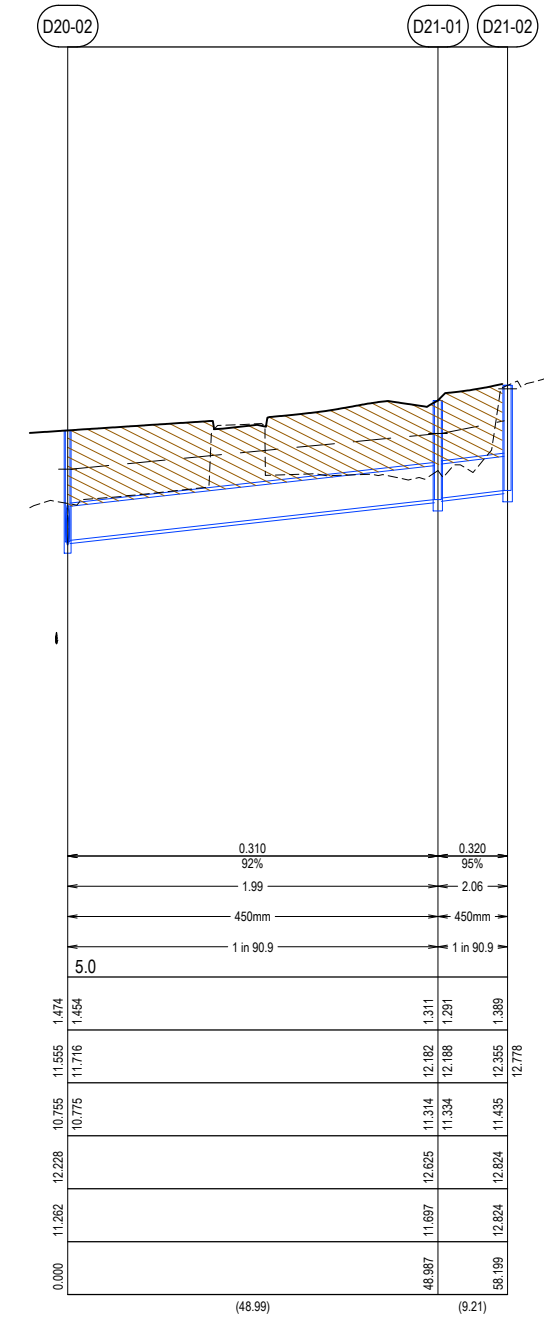
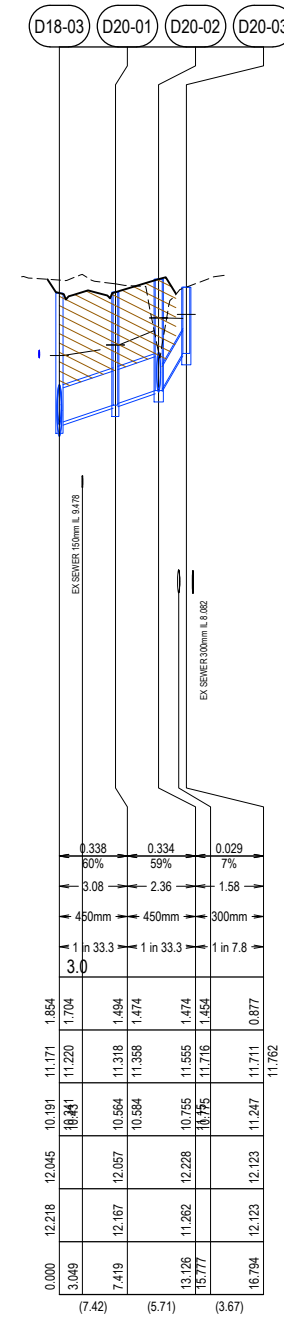
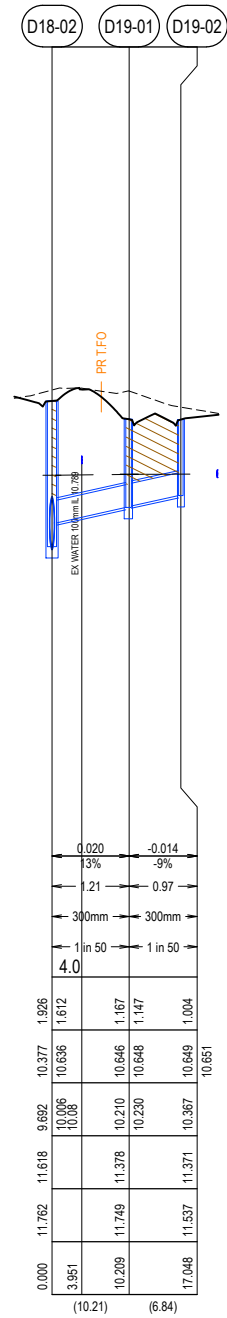
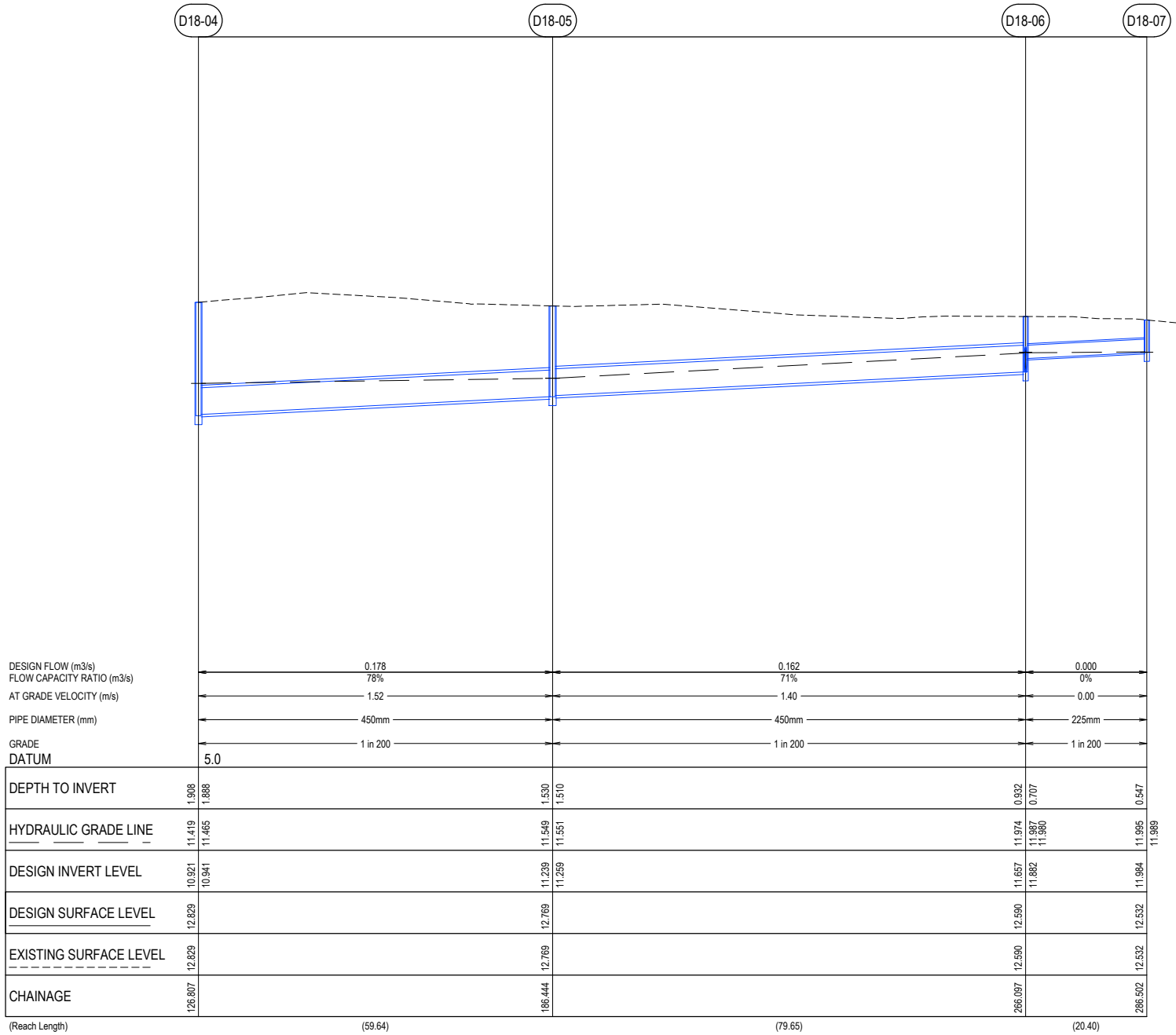
DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C609
PLAN REF No.	27067
REV	07



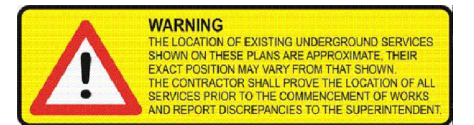
- NOTE:
- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
 - EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.



DETAILED



- NOTE:
- SERVICE ALIGNMENTS SHOWN MARKED ON THE SURFACE ARE OF QUALITY LEVEL D OR ARE PROPOSED FOR FUTURE WORKS.
 - EXISTING RISING SEWER AND WATER MAINS HAVE BEEN SERVICE PROVED, REFER DRAWING 304401088-493 PREPARED BY SEEKER FOR RESULTS.



DETAILED



WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



PLAN APPROVED	H 05.03.26 AC COOMA STREET CONCRETE PAVEMENT
	G 23.09.25 ZG AMENDED GLOSSOP ST OUTFALL
	F 27.08.25 ZG AMENDED GLOSSOP ST DRAINAGE
	E 20.06.25 AC AMENDED DESIGN SCOPE COOMA ST AND GLOSSOP ST
	D 29.07.24 ZG AMENDED DETAILED DESIGN
	C 06.12.22 AC DETAILED DESIGN
	B 09.05.22 AC AMENDED FUNCTIONAL DESIGN
	A 07.03.22 AC PRELIMINARY ISSUE
SIGNED	DEREK ROTTER
MANAGER	PROJECT DELIVERY

COMPUTER REFERENCE	PROJECT QA: TBA
	CONTRACT CN: TBA
	CIVIL 3D DWG: 27067_C6
SURVEY:	JCA
DESIGN:	AC (JCA)
DRAWN:	AC (JCA)
CHECKED:	SP (JCA)



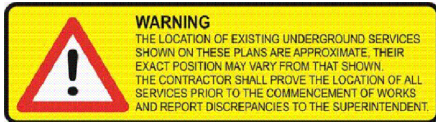
CRESWELL STREET EAST / COOMA STREET
CRESWELL STREET EAST - CRIB POINT
ROAD UPGRADE
DRAINAGE LONGITUDINAL SECTIONS

DATUM:	A.H.D.
SCALE AT A1:	AS SHOWN
DATE OF PLAN:	07/03/2022
MELWAYS REF:	165 A11
SHEET No.	C611
PLAN REF No.	27067
REV	07

PIT NO.	PIT TYPE	EASTING	NORTHING	INTERNAL		INLET		OUTLET		PIT SETOUT RL	DEPTH	STD DWG	REMARKS
				W	L	DIA	IL	DIA	IL				
D01-01	EW	342810.096	5753780.453			(2x)750	9.40			10.65	1.25		Install pre-cast "Rocla" twin-cell pipe head to suit 2x750mm dia. pipe, or similar approved. Provide with timber barrier to Melbourne Water standard 725 1/8/206
D01-02	JP	342811.686	5753706.082	2.4	0.9	(2x)750	9.52	(2x)750	9.52	10.77	1.25	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP211
						450	9.54						
D01-03	GSEP	342813.684	5753616.835	0.6	2.4	(2x)750	9.67	(2x)750	9.67	11.11	1.44	D.o.T SD1022	Haunched to 450mm x 900mm to council standard MP216
D01-04	GSEP	342811.633	5753610.646	2.4	2.4	(2x)750	9.68	(2x)750	9.68	11.22	1.53	D.o.T SD1023	Haunched to 450mm x 900mm to council standard MP216
D01-05	GSEP	342768.519	5753612.625	2.4	0.9	(2x)750	9.76	(2x)750	9.76	11.10	1.35	D.o.T SD1022	Haunched to 450mm x 900mm to council standard MP216
						300	9.98						
D01-06	GSEP	342698.535	5753611.140	2.4	0.9	(2x)750	9.87	(2x)750	9.87	11.22	1.35	D.o.T SD1022	Haunched to 450mm x 900mm to council standard MP216
						300	10.10						
D01-07	GSEP	342628.551	5753609.654	2.4	0.9	(2x)675	10.01	(2x)750	9.99	11.35	1.36	D.o.T SD1022	Haunched to 450mm x 900mm to council standard MP216
						300	10.21						
						(2x)300	10.04						
D01-08	GSEP	342533.749	5753605.106	2.4	0.9	750	10.35	(2x)675	10.33	11.84	1.51	D.o.T SD1022	Haunched to 600mm x 900mm to council standard MP216
						300	10.70						
D01-09	SEP	342486.109	5753604.045	1.05	1.05	750	11.42	750	11.40	13.14	1.74	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP203
D01-10	SEP	342485.530	5753611.305	1.05	1.05	750	11.52	750	11.50	13.14	1.65	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP203
D01-11	EX	342459.38	5753611.147	EX	EX	600	12.71	750	12.56	13.97	1.41	-	Break into existing pit and connect proposed drainage
D02-01	GP	342726.330	5753704.271	0.9	0.6	(2x)300	9.78	450	9.76	10.51	0.75	MP211	Construct with grated pit lid
D02-02	GP	342646.410	5753702.574	0.9	0.6	(2x)300	10.06	(2x)300	10.04	10.66	0.62	MP211	Construct with grated pit lid
D02-03	GP	342561.018	5753700.762	0.9	0.6	225	10.57	(2x)300	10.49	11.00	0.51	MP211	Construct with grated pit lid
D02-04	GP	342479.341	5753699.028	0.6	0.6			225	11.38	12.00	0.61	MP211	Construct with grated pit lid
D03-01	SEP	342768.418	5753618.784	0.6	0.9			300	10.02	11.19	1.16	MP203	
D04-01	SEP	342698.404	5753617.298	0.6	0.9			300	10.14	11.31	1.16	MP203	
D05-01	SEP	342628.420	5753615.813	0.6	0.9			300	10.26	11.43	1.16	MP203	
D06-01	GP	342628.297	5753605.342	0.6	0.9	300	10.08	(2x)300	10.06	10.85	0.79	MP211	Construct with grated pit lid
D06-02	GP	342628.027	5753600.907	0.6	0.9			300	10.13	11.17	1.05	MP211	Construct with grated pit lid
						225	10.15						
D07-01	GP	342629.770	5753518.787	0.6	0.9	225	11.39	225	11.37	12.29	0.93	MP211	Construct with grated pit lid
D07-02	GP	342564.383	5753517.032	0.6	0.6	225	12.36	225	12.34	13.05	0.71	MP211	Construct with grated pit lid
D07-03	GP	342485.340	5753515.354	0.6	0.6			225	13.95	14.64	0.69	MP211	Construct with grated pit lid
D08-01	SEP	342533.401	5753612.256	0.6	0.9			300	10.76	11.92	1.16	MP203	
D09-01	EW	342985.705	5753669.715			(2x)675	9.25			10.13	0.88		Install pre-cast "Rocla" twin-cell pipe head to suit 2x675mm dia. pipe, or similar approved. Provide with timber barrier to Melbourne Water standard 725 1/8/206
D09-02	JP	342977.530	5753655.944	2.4	0.9	(2x)675	9.28	(2x)675	9.28	10.35	1.08	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP211
						300	9.46						
D09-03	SEP	342978.998	5753587.120	0.9	2.4	(2x)675	9.35	(2x)675	9.35	11.38	2.03	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP203
D09-04	SEP	342977.950	5753580.002	1.05	2.4	750	9.36	(2x)675	9.36	11.38	2.02	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP203
						300	9.73						
D09-05	SEP	342881.640	5753598.444	1.05	0.9	750	9.68	750	9.68	11.32	1.63	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP203
						300	9.91						
D09-06	SEP	342834.712	5753607.480	1.05	0.9	750	9.84	750	9.84	11.32	1.48	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP203
D09-07	SEP	342826.198	5753600.165	1.05	0.9	750	9.88	750	9.88	11.50	1.62	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP203
						300	10.11						
D09-08	SEP	342827.798	5753524.575	1.05	0.9	(2x)375	10.13	750	10.13	12.24	2.11	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP203
D09-09	SEP	342827.849	5753522.136	1.05	0.9	375	10.21	(2x)375	10.19	12.29	2.09	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP203
						525	10.21						
D09-10	SEP	342820.818	5753521.667	0.6	0.9	375	10.44	375	10.42	12.28	1.86	MP203	
D09-11	JP	342817.573	5753521.686	0.6	0.9	375	10.49	375	10.47	12.22	1.74	MP211	
D09-12	GP	342749.305	5753520.237	0.6	0.9	300	10.91	375	10.84	12.11	1.28	MP211	Construct with grated pit lid
D09-13	GP	342650.325	5753518.136	0.6	0.6			300	11.41	12.15	0.75	MP211	Construct with grated pit lid
D10-01	GP	342900.427	5753670.535	0.6	0.9			300	10.08	10.88	0.80	MP211	Construct with grated pit lid

PIT NO.	PIT TYPE	EASTING	NORTHING	INTERNAL		INLET		OUTLET		PIT SETOUT RL	DEPTH	STD DWG	REMARKS
				W	L	DIA	IL	DIA	IL				
D11-01	SEP	343051.541	5753578.873	0.6	0.9	300	10.46	300	10.44	11.42	0.98	MP203	
						300	10.46						
D11-02	SEP	343107.519	5753579.664	0.6	0.9			300	10.77	11.70	0.93	MP203	
D12-01	SEP	343051.387	5753585.691	0.6	0.9			300	10.50	11.42	0.93	MP203	
D13-01	SEP	342882.977	5753605.361	0.6	0.9			300	10.20	11.31	1.11	MP203	
D14-01	SEP	342819.130	5753602.965	0.6	0.9			300	10.29	11.41	1.11	MP203	
D15-01	SEP	342828.020	5753503.718	0.9	0.9	225	11.60	525	11.30	12.64	1.35	MP213	Haunched to 600mm x 900mm to council standard MP203
D15-02	GP	342896.247	5753504.799	0.6	0.9			225	11.94	12.49	0.56	MP211	Construct with grated pit lid
D16-01	EW	343150.908	5753777.867			750	8.60			9.65	1.05		Install pre-cast "Rocla" pipe headwall to a suit 750mm dia. pipe, or similar approved. Provide with timber barrier to Melbourne Water standard 725 1/8/206
D16-02	JP	343150.437	5753704.854	1.2	1.05	750	8.72	750	8.72	9.95	1.23	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP211
D16-03	JP	343151.787	5753654.530	1.05	0.9	600	8.81	750	8.81	10.12	1.31	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP211
						375	8.99						
D16-04	JP	343152.886	5753604.774	2.1	1.05	(2x)525	8.91	600	8.89	11.05	2.16	D.o.T SD1023	Haunched to 600mm x 900mm to council standard MP211
D16-05	SEP	343156.427	5753584.998	2.1	0.9	600	8.96	(2x)525	8.94	11.47	2.52	MP213	Haunched to 600mm x 900mm to council standard MP203
D16-06	SEP	343156.485	5753577.855	0.9	0.9	375	9.04	600	9.02	11.47	2.45	MP213	Construct catch inlet into southern side of pit and haunch to 600mm x 900mm to council standard MP203
						600	9.04						
D16-07	GSEP	343225.216	5753582.391	0.6	0.9	300	9.34	375	9.27	10.62	1.35	MP216	
D16-08	GSEP	343225.097	5753587.890	0.6	0.9			300	9.37	10.62	1.25	MP216	
D17-01	GP	343083.961	5753653.060	0.6	0.9	225	9.30	375	9.22	10.59	1.37	MP211	Construct with grated pit lid
D17-02	GP	343013.307	5753651.535	0.6	0.6			225	9.65	10.20	0.55	MP211	Construct with grated pit lid
D18-01	SEP	343149.664	5753570.203	0.9	0.9	600	9.62	600	9.60	11.61	2.01	MP213	Haunched to 600mm x 900mm to council standard MP203
D18-02	SEP	343142.542	5753570.182	0.9	0.9	600	9.71	600	9.69	11.62	1.93	MP213	Haunched to 600mm x 900mm to council standard MP203
						300	10.01						
D18-03	SEP	343143.817	5753510.299	0.9	0.9	450	10.34	600	10.19	12.05	1.85	MP213	Haunched to 600mm x 900mm to council standard MP203
						450	10.34						
D18-04	GP	343094.290	5753509.230	0.9	0.9	450	10.94	450	10.92	12.83	1.91	MP213	Haunched to 600mm x 900mm to council standard MP211 including grated pit lid
D18-05	GP	343034.668	5753507.943	0.6	0.9	450	11.26	450	11.24	12.77	1.53	MP211	Construct with grated pit lid
D18-06	GP	342955.043	5753505.809	0.6	0.6	225	11.88	450	11.66	12.59	0.93	MP211	Construct with grated pit lid
						375	11.68						
D18-07	GP	342934.641	5753505.446	0.6	0.6			225	11.98	12.53	0.55	MP211	Construct with grated pit lid
D19-01	SEP	343135.593	5753577.660	0.6	0.9	300	10.23	300	10.21	11.38	1.17	MP203	
D19-02	SEP	343136.588	5753584.426	0.6	0.9			300	10.37	11.37	1.00	MP203	
D20-01	SEP	343150.840	5753507.907	0.6	0.9	450	10.58	450	10.56	12.06	1.49	MP215	
D20-02	JP	343156.545	5753508.053	0.6	0.9	300	10.78	450	10.76	12.23	1.47	MP211	
						450	10.78						
D20-03	JP	343159.987	5753509.321	0.6	0.9			300	11.25	12.12	0.88	MP211	
D21-01	JP	343157.467	5753459.074	0.6	0.9	450	11.33	450	11.31	12.63	1.31	MP211	
D21-02	EX	343154.759	5753450.269	0.6	0.9			450	11.44	12.82	1.39		Connect proposed pipe to existing pit

SEP - SIDE ENTRY PIT
GSEP - GRATED SIDE ENTRY PIT
GP - GRATED PIT
JP - JUNCTION PIT
EW - ENDWALL
CP - CATCH PIT



DETAILED