REVISION

AC

SHEET LIST TABLE

DRAWING TITLE

COVER SHEET

LAYOUT PLAN

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INTERSECTION DETAILS - 3

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ROAD LONGITUDINAL SECTIONS - 2

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ROAD CROSS SECTIONS - 6

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ROAD CROSS SECTIONS - 9

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TYPICAL DETAILS - 01

SIGNAGE & LINEMARKING

CONCRETE JOINTING PLAN

DRAWING NO.

R200

R201

R301

R302

R400

R506

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R601

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R604

R605

R700

ARMSTRONG

STAGE 52

CITY OF GREATER GEELONG

GENERAL NOTES:

- 1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS AND GREATER GEELONG CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- 3. THE CONTRACTOR SHALL:
- 3.1. COMPLY WITH THE "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" (CODE OF PRACTICE No.8, 1998)
 3.2. NOTIFY WORK SAFE OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
- 3.3. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY
 CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND
 ARE NOT GUARANTEED AS CORRECT.
- 6. REDGUM TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED IN ACCORDANCE WITH COUNCIL'S PLANNING PERMIT NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE TREE PROTECTION ZONE OF ANY EXISTING TREE WITHOUT WRITTEN APPROVAL FROM COUNCIL'S ENVIRONMENT DEPARTMENT.
- 7. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
- 8. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORKS COMMENCING. THESE AREAS SHALL BE RESURFACED WITH A 150mm LAYER OF TOPSOIL AS SPECIFIED.
- COMMENCING. THESE AREAS SHALL BE RESURFACED WITH A 150mm LAYER OF TOPSOIL AS SPECIFIED.

 10. NO TOPSOIL TO BE REMOVED FROM SITE.
- 11. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT.
- 12. FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-1996. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT.
- 13. FILLING UNDER DRIVEWAYS AND FOOTPATH IS TO BE APPROVED BY THE SUPERINTENDENT AND CONSTRUCTED IN LAYERS 150mm DEPTH. COMPACTION ACHIEVING A MINIMUM DENSITY RATIO OF 98% (STANDARD) IN ACCORDANCE WITH AS1289 CLAUSE 5.1.1.
- 14. CUT AND FILL BATTER SLOPES ARE NOT TO EXCEED 1 in 6 UNLESS SHOWN OTHERWISE.
- 15. ALL DRAINAGE PIPES ARE TO BE SPIGOT-SOCKET RUBBER RING JOINTED UNLESS STATED OTHERWISE.
- 16. ALL DRAINAGE TRENCHES UNDER PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERB & CHANNEL, SHALL BE BACKFILLED WITH CRUSHED ROCK AS SPECIFIED.
- 17. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILIZED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
- 18. PROPERTY INLETS AS PER INFRASTRUCTURE DESIGN MANUAL (IDM) STANDARD DRAWING SD 520 ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS SHOWN OTHERWISE.
- 19. ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 6.0m FROM THE SIDE BOUNDARY OR FROM EASEMENT ALONG THE SIDE BOUNDARY UNLESS NOTED OTHERWISE AND CONNECTED DIRECTLY TO UNDERGROUND DRAIN OR PIT. HOUSE DRAIN LOCATION TO BE
- MARKED (50mm STAMPED IMPRESSION) ON THE TOP OF THE KERB.

 20. SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL.
- 20. SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL.

 21. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED (50mm STAMPED IMPRESSION) WITH THE LETTERS E
- (ELECTRICAL), G (GAS), T (TELEPHONE), W (WATER) AND C (COUNCIL COMMUNICATION) ABOVE CONDUIT LOCATION.

 22. ALL SERVICING TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS ETC. ARE TO BE BACKFILLED & COMPACTED WITH F.C.R. IN THE CASE OF TRENCHES UNDER ROADS WHERE BACKFILLING HAS NOT ACHIEVED THE SPECIFIED COMPACTION OR SHOWS EXCESSIVE MOVEMENT UNDER PROOF ROLLING, THE BACKFILLING SHALL BE REMOVED AND REPLACED WITH 2% STABILISED COMPACTED F.C.R.
- 23. NO COMMUNICATION PITS ARE TO BE LOCATED IN THE FOOTPATH.
- 24. VEHICULAR CROSSINGS TO BE LOCATED CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. VEHICLE CROSSINGS TO BE 1m FROM PROPERTY BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. VEHICULAR CROSSINGS TO BE CONSTRUCTED AS PER CITY OF GREATER GEELONG "DESIGN NOTES No.4" DATED AUGUST 2012 & IDM STANDARD DRAWINGS SD205 to SD265.
- 25. ALL PEDESTRIAN CROSSINGS TO BE IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL SD200.
- 26. ALL STREET SIGNS TO BE IN ACCORDANCE INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS. STREET SIGNS TO BE ATTACHED TO LIGHT POLES USING 'SINGLE DIRECTION COLLAR' OR '90° RIGHT ANGLE COLLAR' UNLESS SHOWN OTHERWISE.
- 27. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND AS1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- 28. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED, GRADED, ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
- 29. ALL AREAS OF SUBDIVISION EXPOSED OF VEGETATION, INCLUDING NATURE STRIPS, LOTS AND RESERVES ARE TO BE FULLY GRASSED BY HYDRO MULCHING, WATERED AND MAINTAINED, UNTIL THE END OF MAINTENANCE PERIOD.
 30. ALL SUMPS IN PRECAST CONCRETE PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE, UNLESS
- APPROVED OTHERWISE BY THE COUNCIL WORKS INSPECTOR.

 31. CITY OF GREATER GEELONG REQUIRES CCTV OF ALL DRAINAGE PIPES AND PITS, PRIOR TO THE ISSUE OF THE STATEMENT OF COMPLIANCE

	ARMSTRONG CREEK DRAINAGE RESERVE CHMP EXIST	RL 25.908 STAR PICKET	
FREEDOM DRIVE EXISTING STAGE 51 WHITES ROAD WARRA	EXISTING STAGE 54 EXISTING STAGE 54 EXISTING STAGE 53B EXISTING STAGE 53B INLET DR 5218 5217 5219 5220 5221 5222 RESERVE 215 5214 5213 5212 5211 5210 5209 52	CIRCUIT CIRCUIT 611362 GROUND COORDINATES E 266364.980 N 5765192.889 RL 25.755 STAR PICKET HABITAT ZONE 29 CONSERVATION	COUNCIL
GRANGE E	ESTATE	FUTURE CAC SITE FUTURE SCHOOL SITE	

	[!	301	IOOL	_
LOCALITY PLAN	1:2000	20	0	20	40	60	80	100	A
MELWAYS REF: 479 F1	1:4000								A

NOTE:

THE SITE OF WORKS IS SUBJECT TO THE PROVISIONS OF CULTURAL HERITAGE MANAGEMENT PLAN 11385.
ALL WORKS AND PERSONNEL MUST OBSERVE THE REQUIREMENTS OF THE MANAGEMENT PLAN AT ALL TIMES.

SIGNED (CONSULTANT)

Chris Nation 08/05/2025

SIGNED (CONTRACTOR)

WARNING BEWARE OF UNDERGROUND & OVERHEAD SERVICES

THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. LOCATE ALL UNDERGROUND SERVICES BEFORE COMMENCEMENT OF WORKS

DIAL 1100 BEFORE YOU DIG

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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	OLILI
AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE	
6	07/04/25	PIT 140A TO PIT 140 ADDED & PIT C1 REVISED TO INLET CATCH	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
5	12/03/25	PIT 139 MOVED & PIT 60 MOVED INTO PAVEMENT	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
4	27/05/24	CROSSOVER CULVERT REMOVAL SYMBOL ADDED & NOTE AMEI	WOMED KELVIE	M.TROUNCE	M.TROUNCE	
3	21/05/24	CROSSOVER & DRAINAGE AMENDMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
2	24/04/24	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
1	20/03/24	WHITES ROAD PARKING BAY & FOOTPATH ADDED	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
0	12/01/24	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
С	07/12/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	







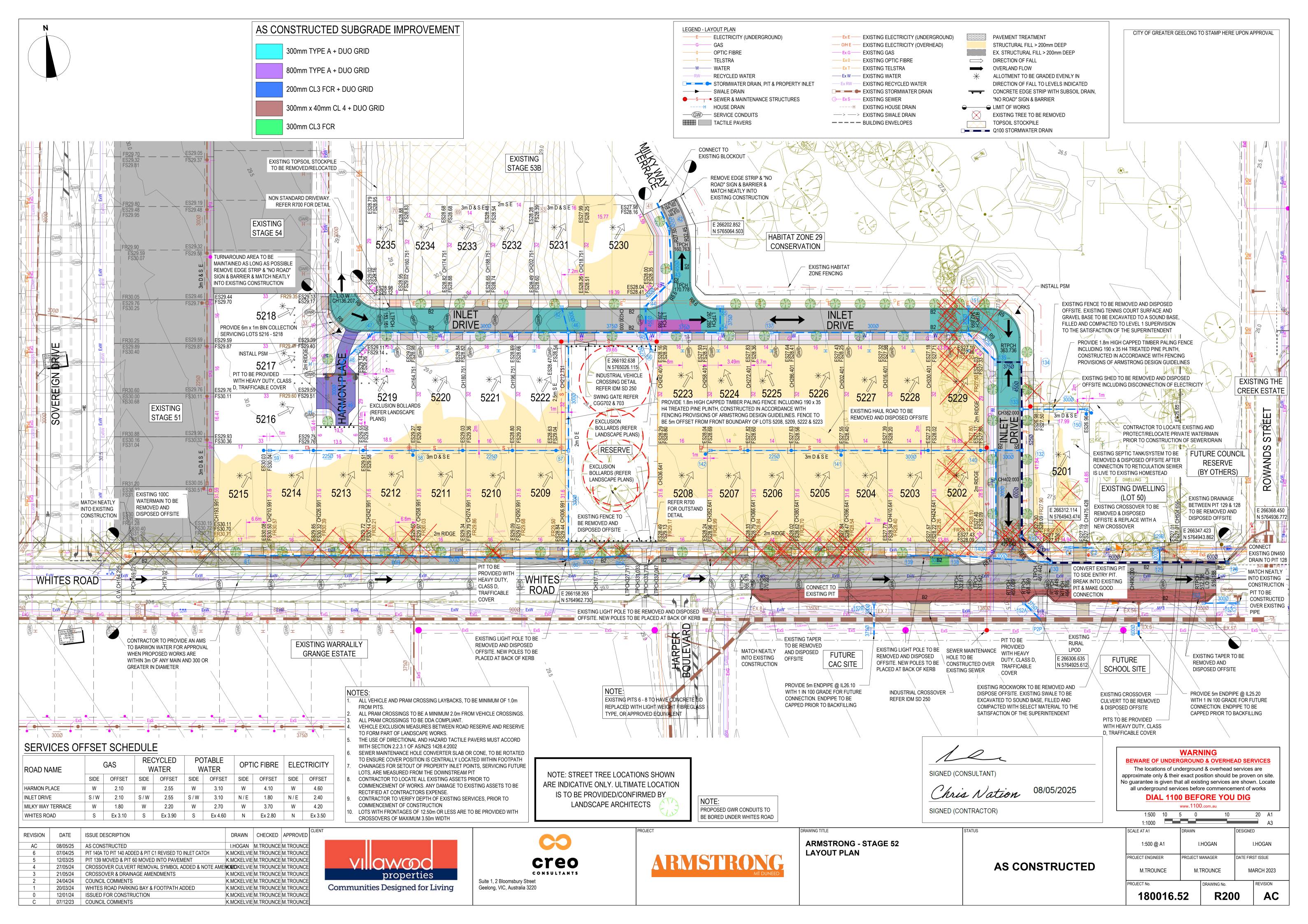


AS	CONSTRUCTED

STATUS

I	SCALE AT A1	DRAWN		DESIGNE)
	1:2000 @ A1	I.HOGAN			I.HOGAN
ľ	PROJECT ENGINEER	PROJECT MANAGER		DATE FIRS	ST ISSUE
	M.TROUNCE	M.TROUNCE		MA	ARCH 2023
Γ	DDO IEOT N.		55414414		DEVIOLON

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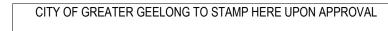
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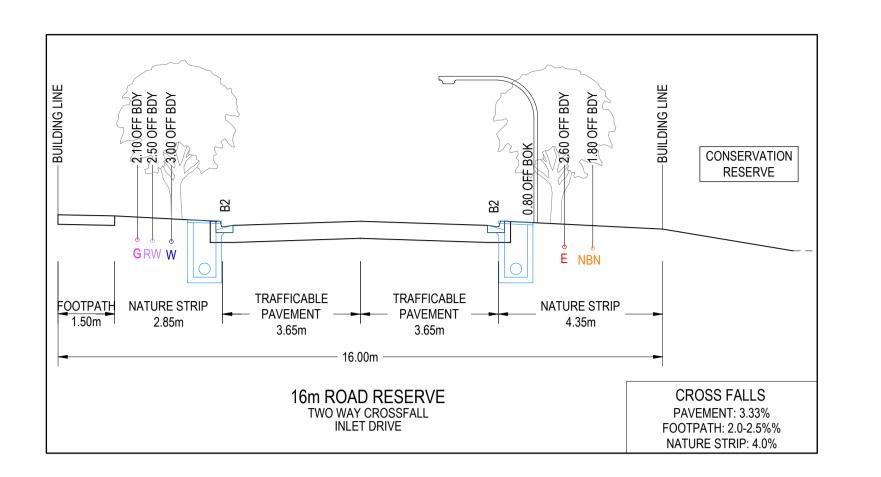
BEWARE OF UNDERGROUND & OVERHEAD SERVICES

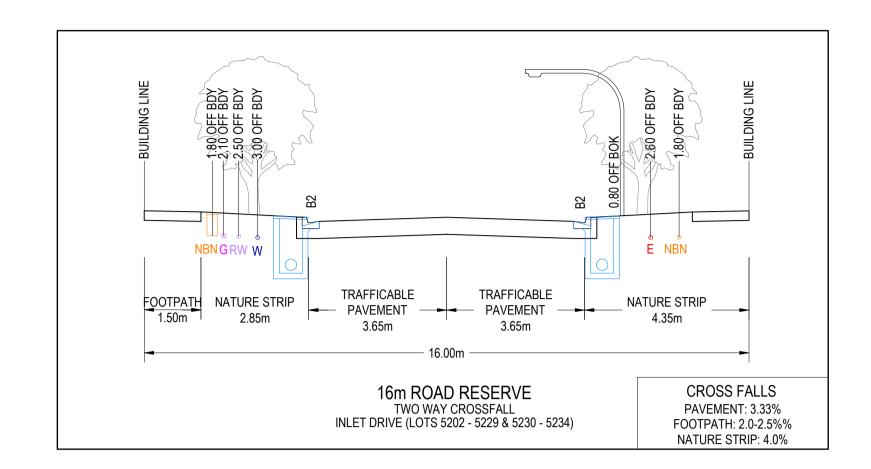
The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

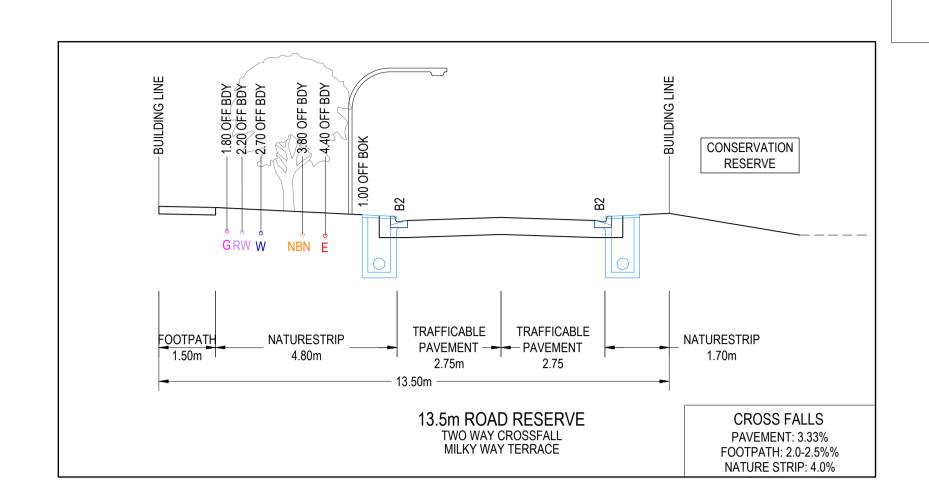
DIAL 1100 BEFORE YOU DIG

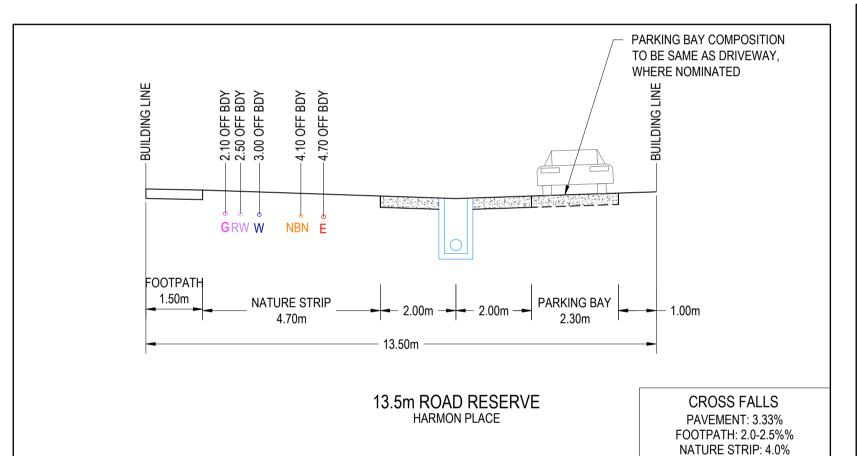
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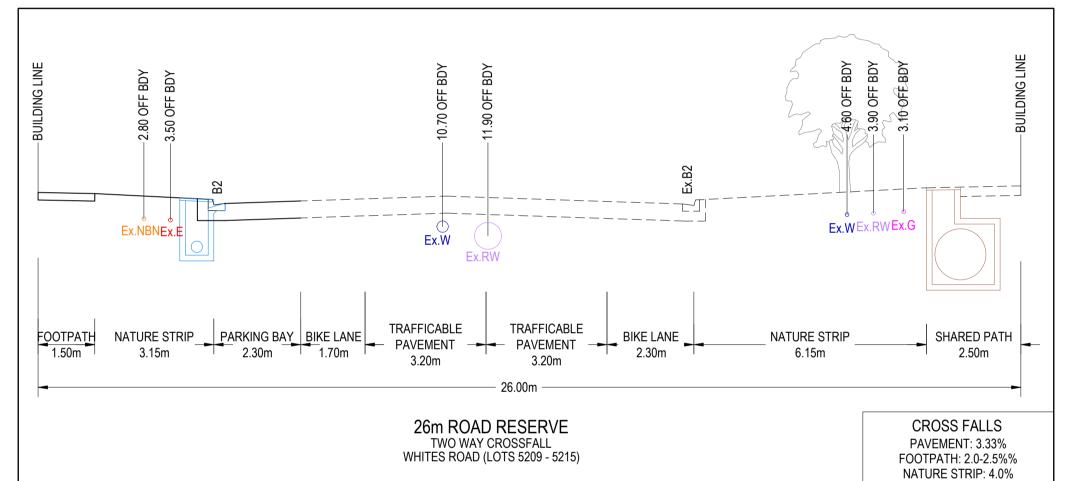


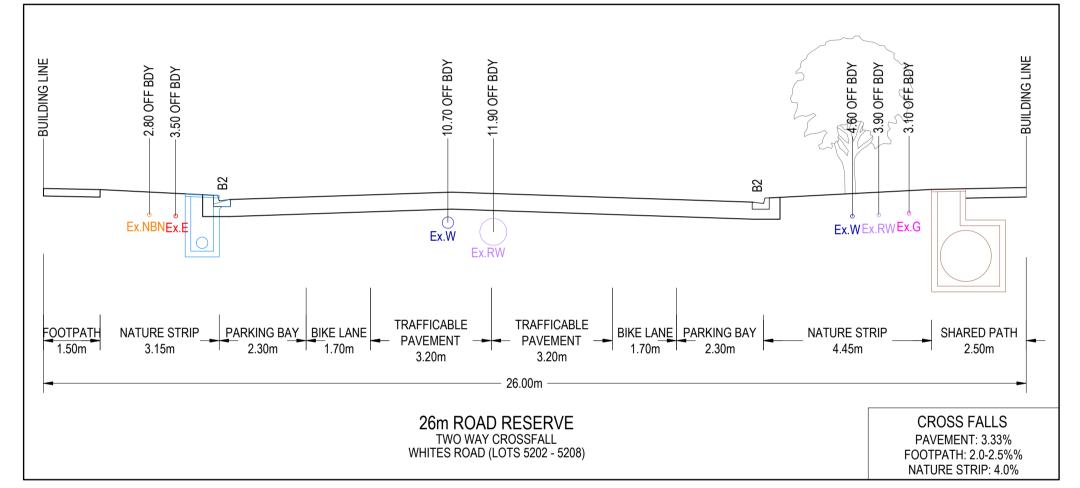




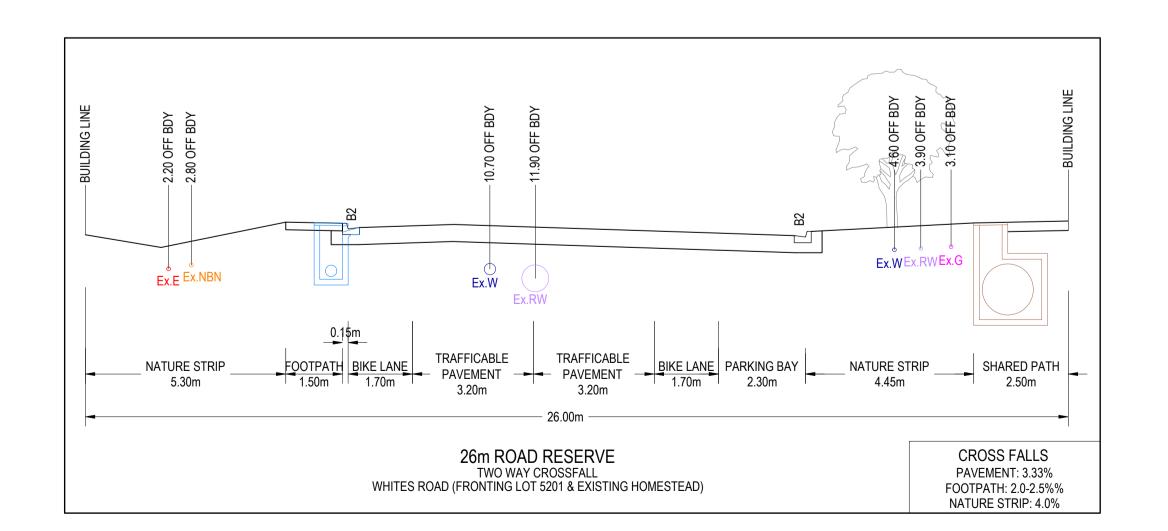


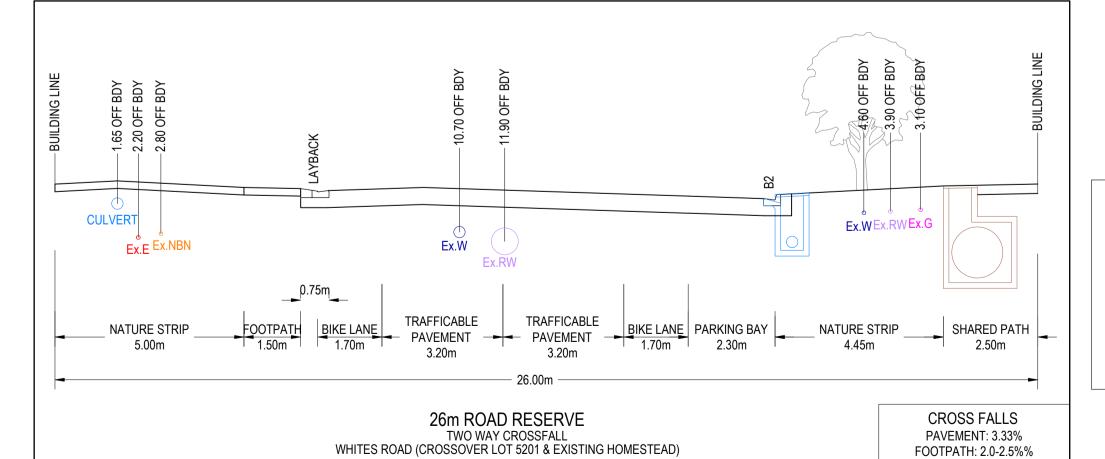






NATURE STRIP: 4.0%





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SIGNED (CONSULTANT)	
Chris Nation	08/05/2025
SIGNED (CONTRACTOR)	

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CL
AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE	
2	24/04/24	KERB TYPES ADDED	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
1	20/03/24	WHITES ROAD TYPICAL CROSS SECTIONS UPDATED	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
0	12/01/24	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
С	07/12/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
В	28/11/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
Α	12/09/23	ISSUED FOR APPROVAL	I.HOGAN	M.TROUNCE	M.TROUNCE	





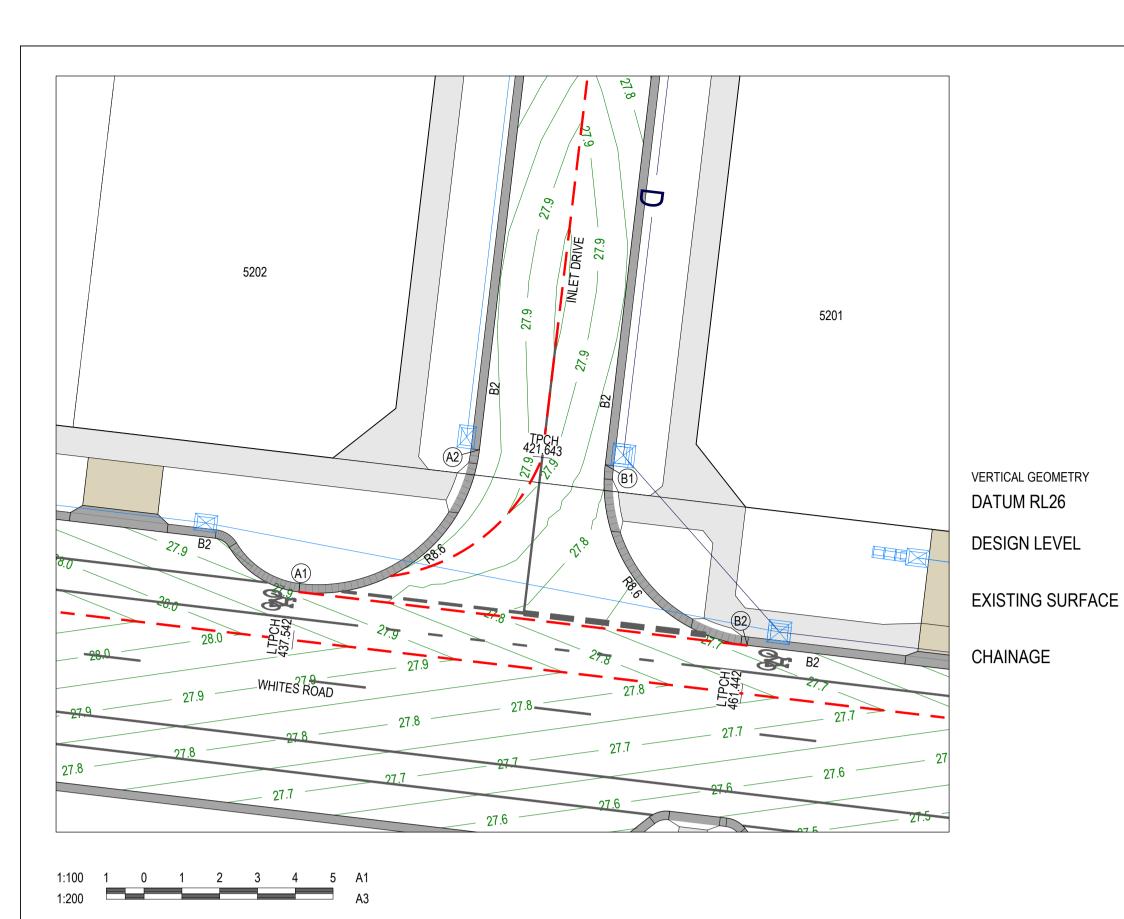
ARMSTRONG - STAGE 52 TYPICAL SECTIONS	
	AS CONSTRUCTED

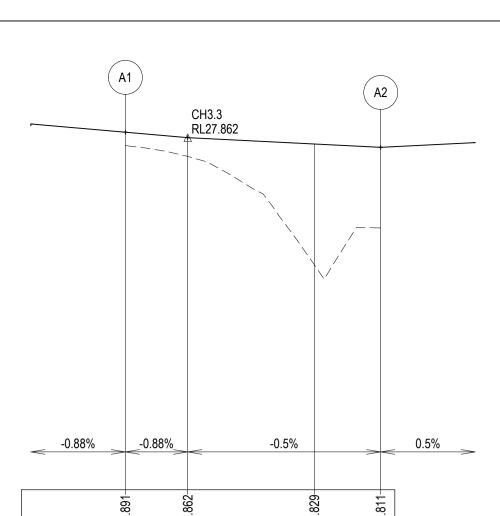
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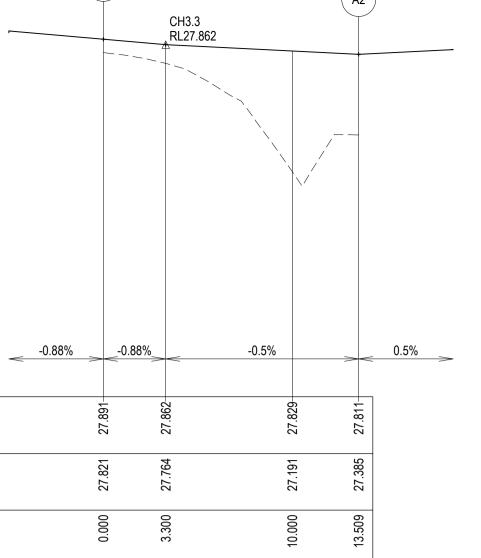
	SCALE AT A1	DRAWN		DESIGNE)
	N.T.S	I.HOGAN			I.HOGAN
	PROJECT ENGINEER	PROJECT MANAGER		DATE FIRST ISSUE	
TRUCTED	M.TROUNCE	M.TROUNCE		M	ARCH 2023
	PROJECT No.		DRAWING No.		REVISION
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180016.52

R201







LIP LINE A

CURVE NO I RAD. ARC A B X Y I MID POINT RL

ALIGNMENT A

ALIGNMENT C

PT NO EASTING NORTHING RL

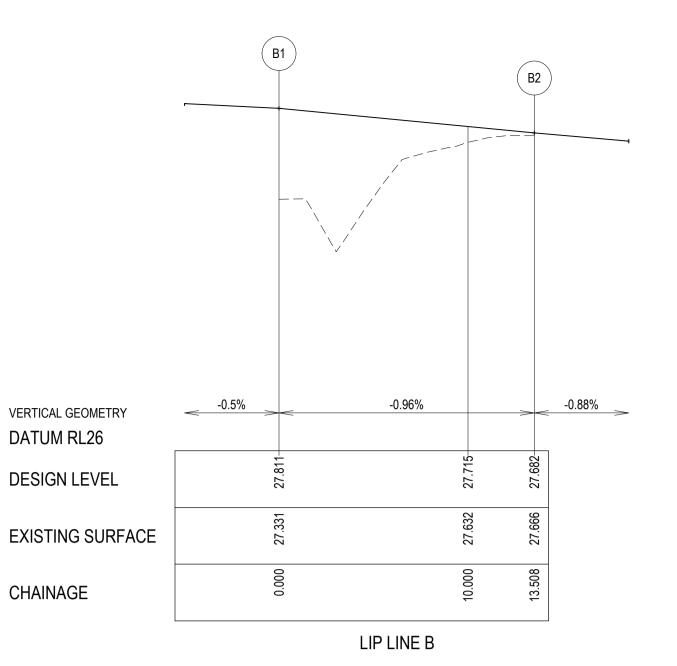
C1 266303.079 5765010.617 27.058

C2 266295.204 5765020.617 27.227

PT NO EASTING NORTHING RL

A1 266286.686 5764945.592 27.891

A2 266296.242 5764953.116 27.811

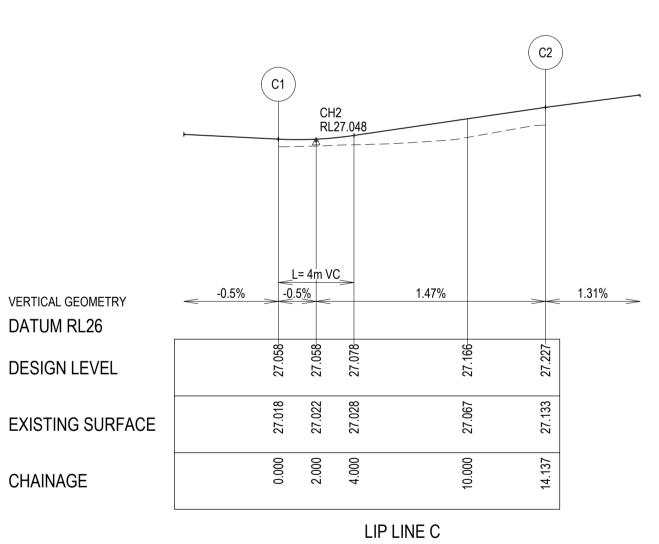


ALIGNMENT B

PT NO EASTING NORTHING RL B1 266302.895 5764952.324 27.811 B2 266310.419 5764942.769 27.682

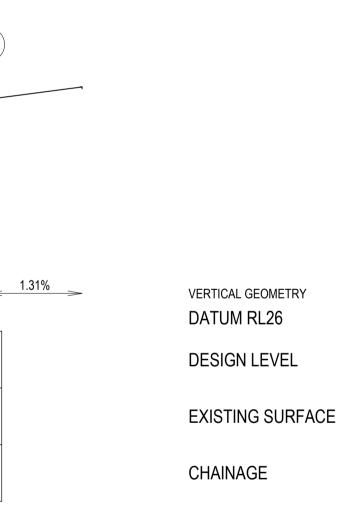
CURVE NO I RAD. ARC A B X Y I MID POINT RL B1 - B2 89.997 8.6 13.508 2.519 1.864 3.291 2.79 3.377 27.746





CURVE NO I RAD. ARC A B X Y I MID POINT RL

C1 - C2 90 9 14.137 2.636 1.951 3.444 2.92 3.534 27.135

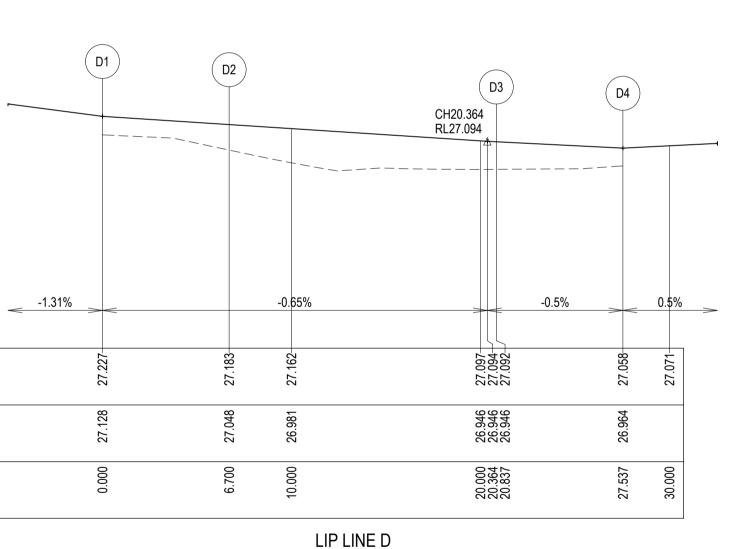


ALIGNMENT D

PT NO EASTING NORTHING RL D1 266295.995 5765027.27 27.227 D2 266302.648 5765026.479 27.183 D3 266310.523 5765016.479 27.092 D4 266309.732 5765009.826 27.058

DRAWING TITLE

CURVE NO I RAD. ARC A B X Y I MID POINT RL D2 - D3 89.999 9 14.137 2.636 1.951 3.444 2.92 3.534 27.137



SIGNED (CONSULTANT) 08/05/2025 Chris Nation SIGNED (CONTRACTOR)

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

□ D STORMWATER DRAIN, PIT & PROPERTY INLET

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES The locations of underground & overhead services are

approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate

all underground services before commencement of works

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LEGEND

- - - - EXISTING SURFACE

LIP PROFILE SETOUT

1:200 2 0 2 4 6 8 10 A1

HORIZONTAL

VERTICAL

1:20 0.2 0 0.2 0.4 0.6 0.8 1 A1

DESIGN LINE

DESIGN CONTOUR - 0.1m

EXISTING CONTOUR - 0.1m

LEGEND - INTERSECTION PLAN

---- CROWN / GRADE LINE

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WARNING

DRAWN CHECKED APPROVED CLIENT DATE ISSUE DESCRIPTION REVISION 08/05/25 AS CONSTRUCTED I.HOGAN M.TROUNCE M.TROUNCE 12/01/24 ISSUED FOR CONSTRUCTION K.MCKELVIE M.TROUNCE M.TROUNCE K.MCKELVIE M.TROUNCE M.TROUNCE 07/12/23 COUNCIL COMMENTS

I.HOGAN M.TROUNCE M.TROUNCE

1:100 1 0 1 2 3 4 5 A1

28/11/23 COUNCIL COMMENTS 12/09/23 ISSUED FOR APPROVAL

properties Communities Designed for Living K.MCKELVIE M.TROUNCE M.TROUNCE

DATUM RL26

DESIGN LEVEL

CHAINAGE





ARMSTRONG - STAGE 52	
NTERSECTION DETAILS - 1	

AS	CONSTRUCTED	

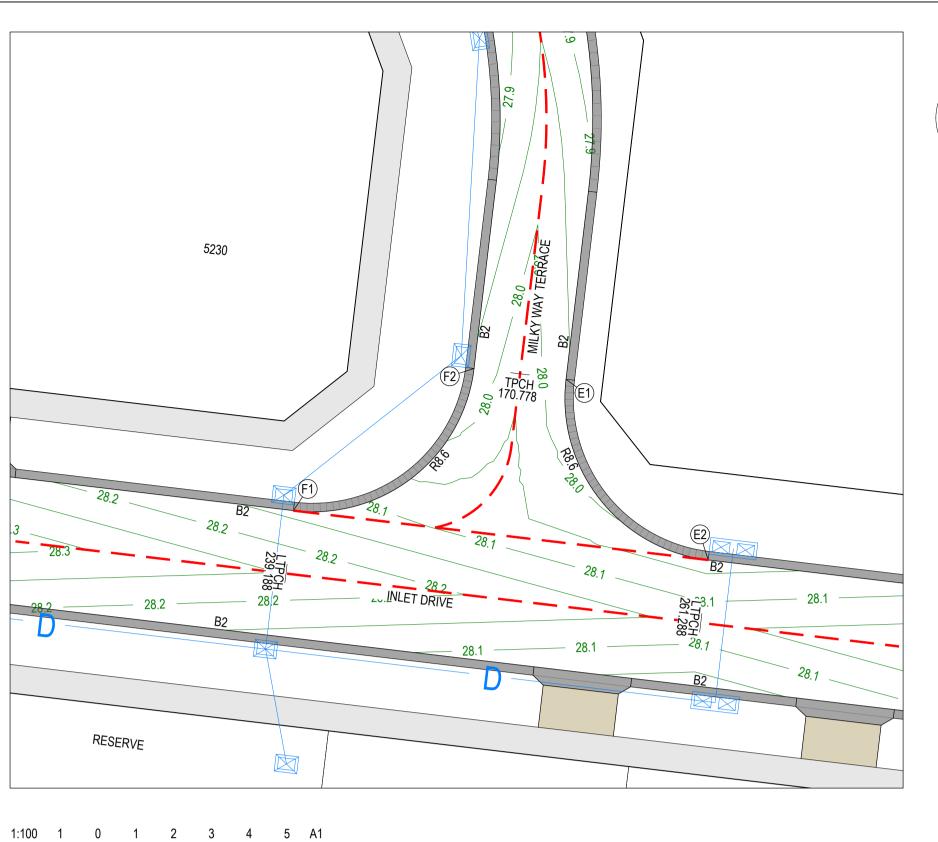
SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	I.HOGAN	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	M.TROUNCE	MARCH 202

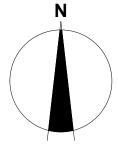
REVISION 180016.52 **R300** AC

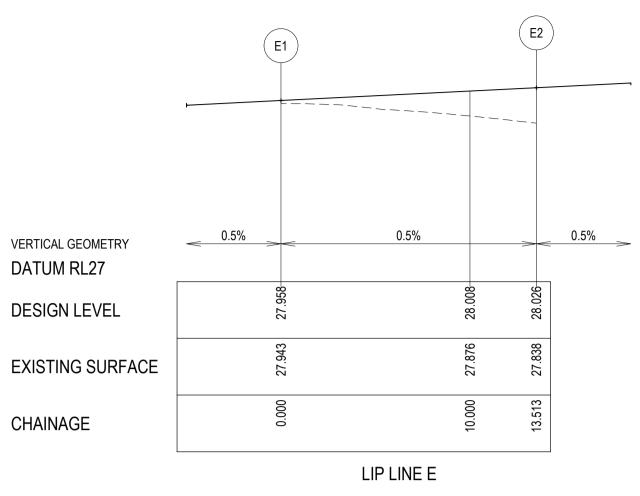
creo CONSULTANTS

FOR SIGNS & LINEMARKING PLAN REFER SHEETS R800

STATUS







(F2 RL28.119 RL27.975 L= 6.75m VC -0.5% -0.5% -0.5% -0.5% VERTICAL GEOMETRY DATUM RL27 **DESIGN LEVEL** 27.993 27.992 **EXISTING SURFACE** CHAINAGE LIP LINE F

ALIGNMENT F

PT NO EASTING NORTHING RL

F1 266193.01 5765039.514 28.136

F2 266202.565 5765047.035 27.958

CURVE NO I RAD. ARC A B X Y I MID POINT RL

F1 - F2 89.974 8.6 13.505 2.517 1.863 3.29 2.79 3.376 27.992

LEGEND - - - - EXISTING SURFACE

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

□ D STORMWATER DRAIN, PIT & PROPERTY INLET

WARNING

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DIAL 1100 BEFORE YOU DIG

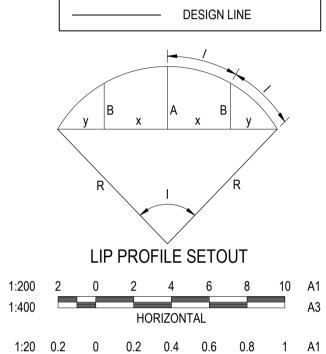
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DESIGN CONTOUR - 0.1m

EXISTING CONTOUR - 0.1m

LEGEND - INTERSECTION PLAN

---- CROWN / GRADE LINE



A3 VERTICAL

ALIGNMENT E

ALIGNMENT G

PT NO EASTING NORTHING RL

G1 266099.651 5765059.678 28.872

G2 266100.088 5765055.656 28.893

G3 266107.525 5765049.679 28.826

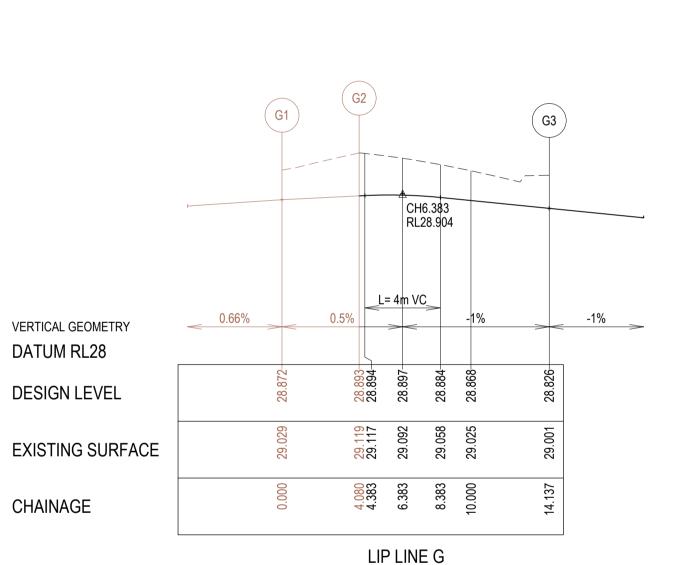
CURVE NO I RAD. ARC A B X Y I MID POINT RL

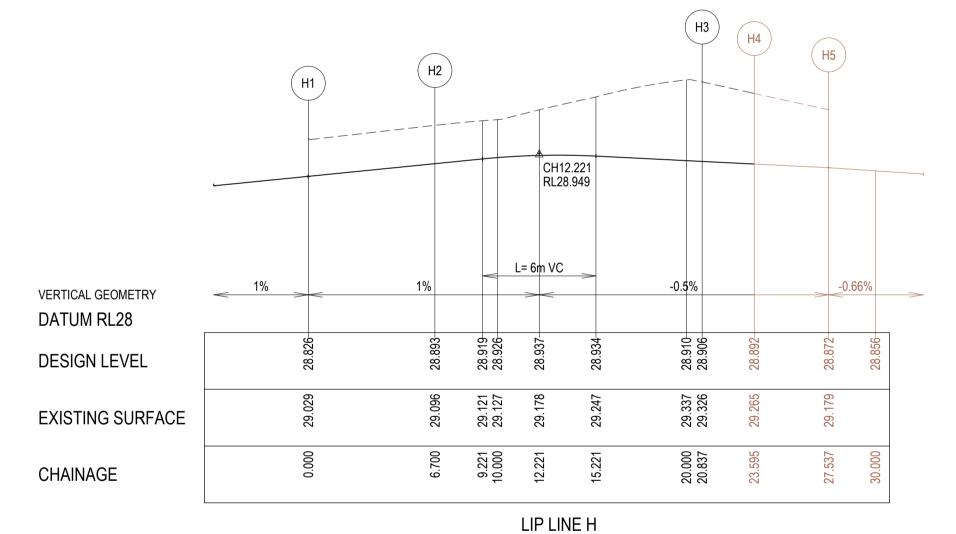
G1 - G2 25.98 8.999 4.08 0.23 0.173 1.018 1.005 1.02 28.882

G2 - G3 64.022 8.999 10.055 1.368 1.019 2.481 2.289 2.514 28.877

PT NO EASTING NORTHING RL E1 266207.431 5765046.464 27.958 E2 266214.955 5765036.905 28.026

CURVE NO I RAD. ARC A B X Y I MID POINT RL E1 - E2 90.026 8.6 13.513 2.52 1.865 3.292 2.791 3.378 27.992





ALIGNMENT H

PT NO EASTING NORTHING RL H1 266106.734 5765043.025 28.826 H2 266100.081 5765043.816 28.892 H3 266092.207 5765053.816 28.906 H4 266092.532 5765056.554 28.892 H5 266092.998 5765060.469 28.872

CURVE NO I RAD. ARC A B X Y I MID POINT RL H2 - H3 90 9 14.137 2.636 1.951 3.444 2.92 3.534 28.923

SIGNED (CONSULTANT) 08/05/2025 Chris Nation SIGNED (CONTRACTOR)

FOR SIGNS & LINEMARKING PLAN REFER SHEETS R800

STATUS

No guarantee is given that all existing services are shown. Locate
all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
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180016.52

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CL
AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE	
0	12/01/24	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
С	07/12/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
В	28/11/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
Α	12/09/23	ISSUED FOR APPROVAL	I.HOGAN	M.TROUNCE	M.TROUNCE	

5218

5217

5216

1:100 1 0 1 2 3 4 5 A1



5235

5219





RMSTRONG - STAGE 52	
NTERSECTION DETAILS - 2	

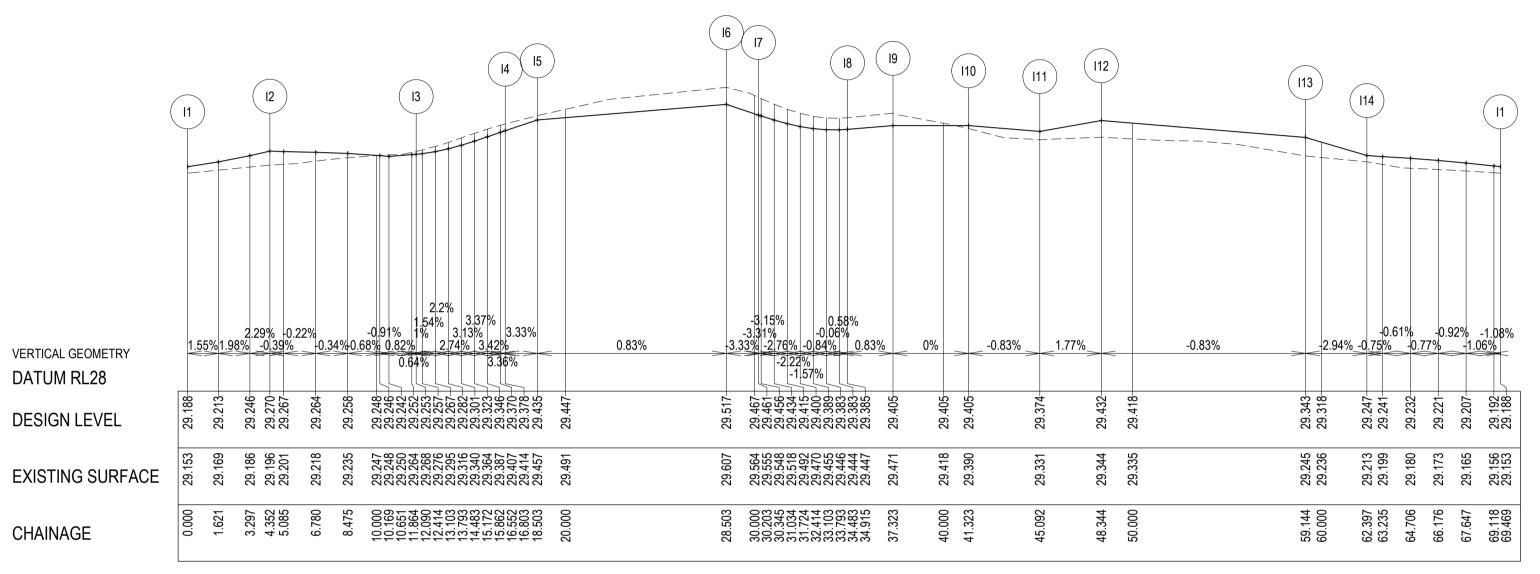
AS	CONSTRUCTED	

SCALE AT A1	DRAWN		DESIGNED		
AS SHOWN	I.	HOGAN	I.HOGA		
PROJECT ENGINEER	PROJECT N	MANAGER	DATE FIRS	ST ISSUE	
M.TROUNCE	M .7	FROUNCE	MARCH 20		
PROJECT No.		DRAWING No.	_	REVISION	

R301

AC

WARNING BEWARE OF UNDERGROUND & OVERHEAD SERVICES The locations of underground & overhead services are approximate only & their exact position should be proven on site.



LIP LINE I

ALIGNMENT I

PT NO EASTING NORTHING RL I1 266097.601 5765039.429 29.188 12 266093.279 5765039.942 29.27 13 266091.238 5765032.539 29.253 14 266087.905 5765029.914 29.378 15 266086.217 5765030.115 29.435 16 266085.036 5765020.185 29.517 17 266086.724 5765019.984 29.461 I8 266089.349 5765016.651 29.385 19 266089.065 5765014.26 29.405 110 266093.037 5765013.788 29.405 l11 266093.482 5765017.531 29.374 112 266096.037 5765019.543 29.432 l13 266097.312 5765030.268 29.343 114 266095.3 5765032.823 29.247

CURVE NO I RAD. ARC A B X Y I MID POINT RL 12 - 13 24.481 18.11 7.738 0.412 0.308 1.931 1.909 1.935 29.259 13 - 14 90 3 4.712 0.879 0.65 1.148 0.973 1.178 29.3 17 - 18 90 3 4.712 0.879 0.65 1.148 0.973 1.178 29.398

114-11 29.399 13.783 7.072 0.451 0.338 1.763 1.734 1.768 29.222

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

LEGEND - INTERSECTION PLAN D—D STORMWATER DRAIN, PIT & PROPERTY INLET DESIGN CONTOUR - 0.1m EXISTING CONTOUR - 0.1m ----- CROWN / GRADE LINE

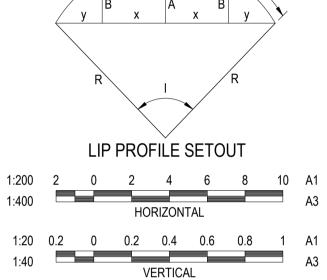
WARNING BEWARE OF UNDERGROUND & OVERHEAD SERVICES

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LEGEND _ _ _ _ EXISTING SURFACE **DESIGN LINE**



SIGNED (CONSULTANT)

SIGNED (CONTRACTOR)

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	
						1
						1
AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE]
0	12/01/24	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
С	07/12/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
В	28/11/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
Α	12/09/23	ISSUED FOR APPROVAL	I.HOGAN	M.TROUNCE	M.TROUNCE	







ARMSTRONG - STAGE 52	
INTERSECTION DETAILS - 3	

DRAWING TITLE

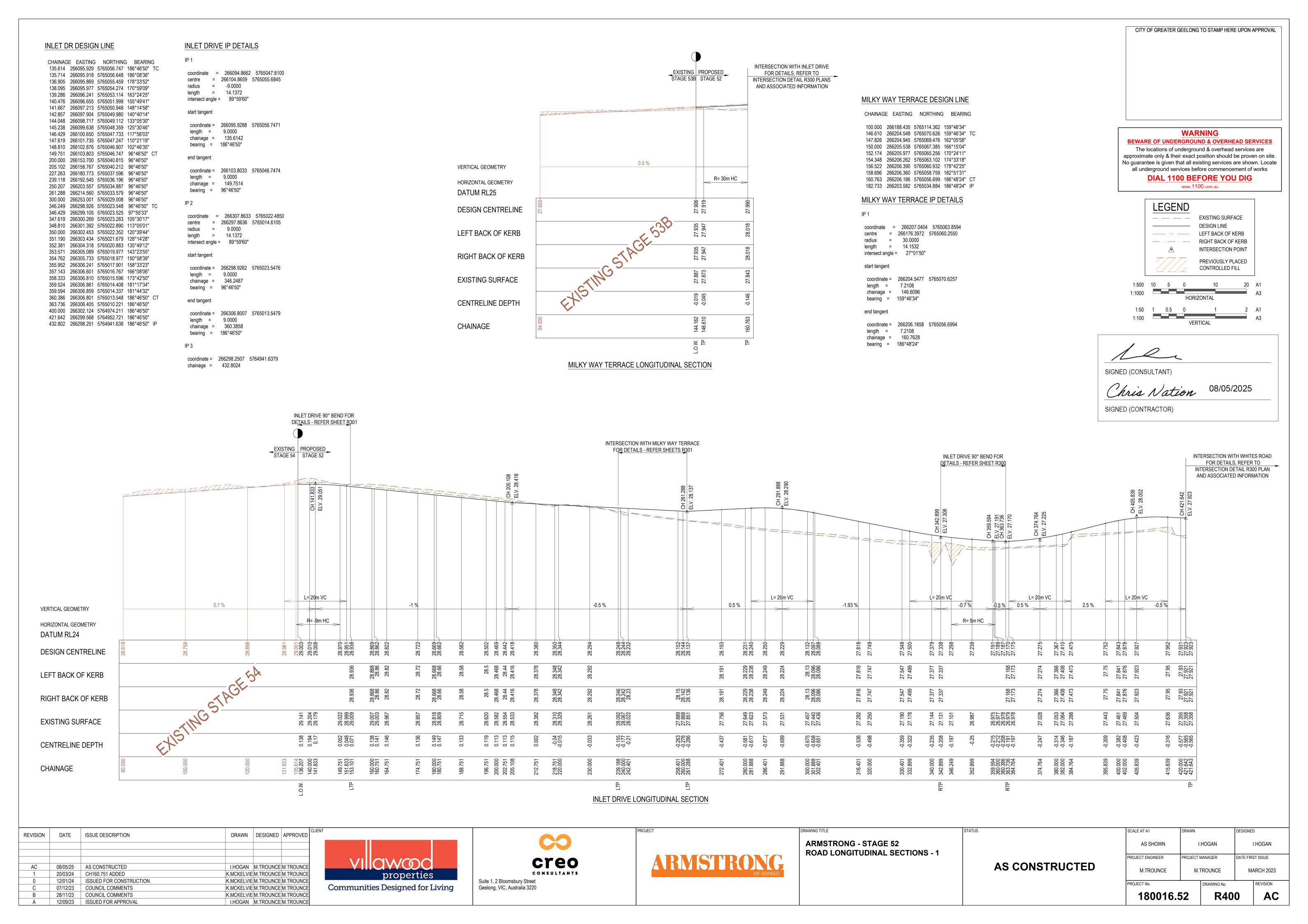
AS	CONSTRUCTED	

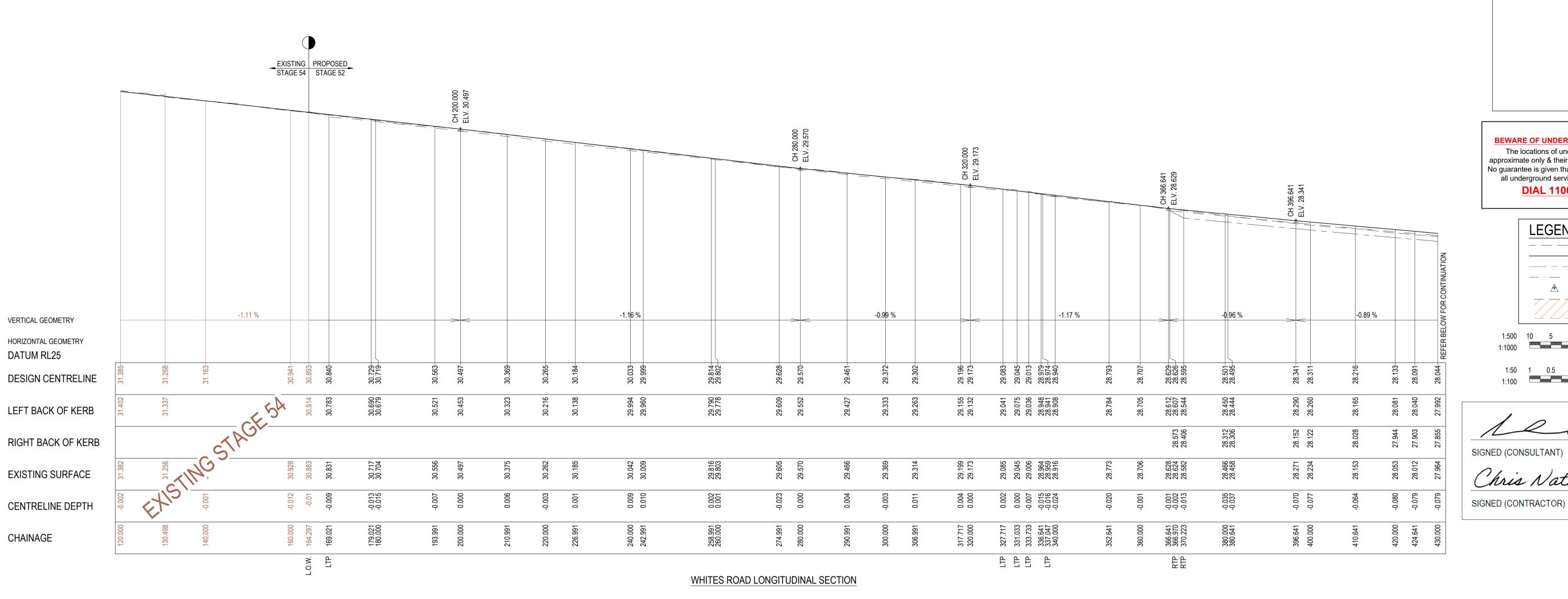
STATUS

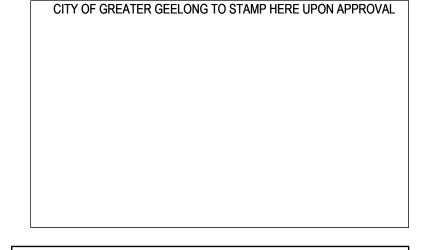
SCALE AT A1	DRAWN	DESIGNED	
AS SHOWN	I.HOGAN	I.HOGAN	
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE	_
M.TROUNCE	M.TROUNCE	MARCH 2023	
DRO IECT No	DD VIVING I	No PEVISION	

		REVISION
80016.52	R302	AC

08/05/2025





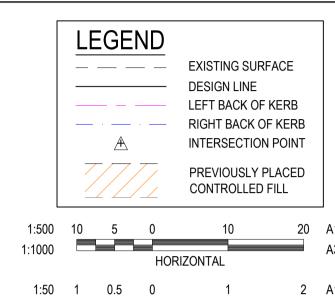


WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES The locations of underground & overhead services are

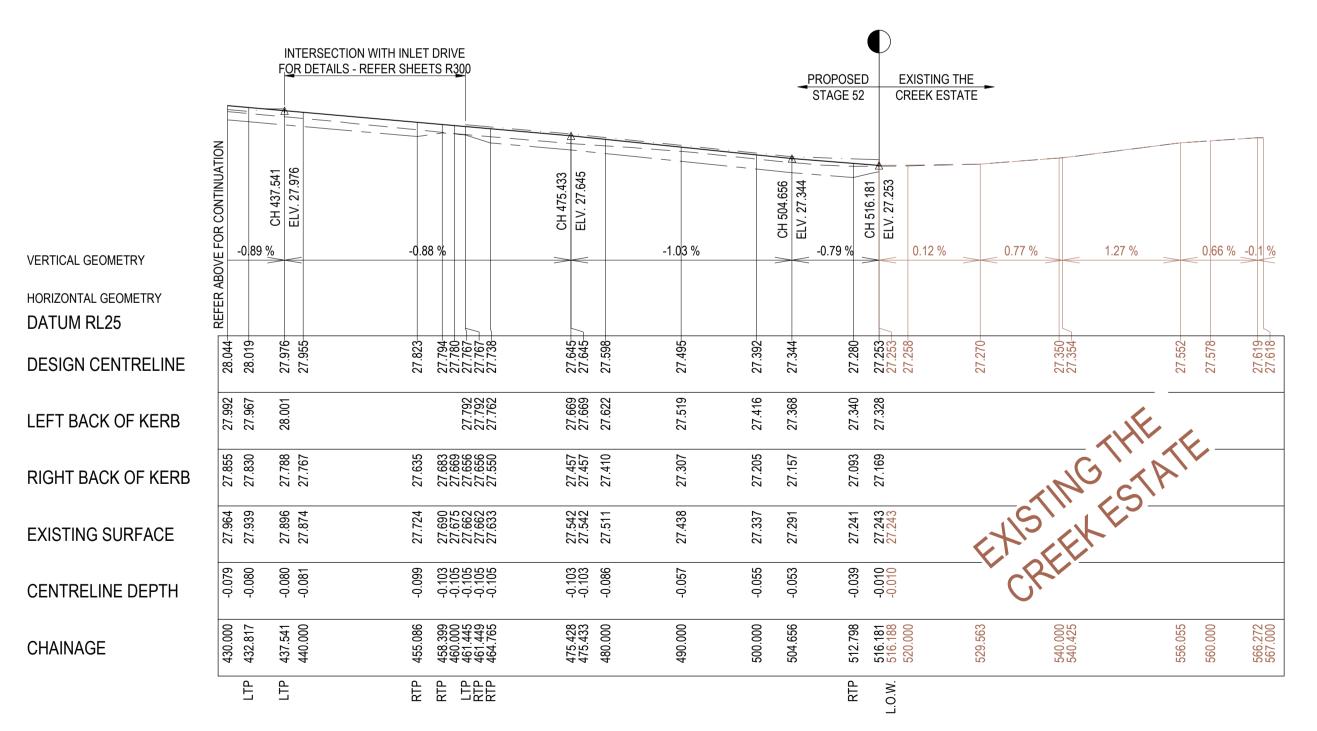
approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

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08/05/2025

SIGNED (CONSULTANT)



WHITES RD DESIGN LINE

0.000 265851.925 5764994.936 96°48'35" IP 40.000 265891.643 5764990.193 96°48'35"

CHAINAGE EASTING NORTHING BEARING

80.000 265931.361 5764985.450 96°48'35" 100.000 265951.219 5764983.079 96°48'35" 200.000 266050.514 5764971.221 96°48'35" 280.000 266129.950 5764961.736 96°48'35" 300.000 266149.808 5764959.364 96°48'35" 320.000 266169.667 5764956.993 96°48'35" 366.641 266215.979 5764951.462 96°48'35" 396.641 266245.768 5764947.905 96°48'35" 400.000 266249.103 5764947.507 96°48'35" 437.541 266286.380 5764943.055 96°48'35" 475.433 266324.004 5764938.563 96°48'35"

500.000 266348.398 5764935.650 96°48'35" 504.656 266353.020 5764935.098 96°48'35" 516.181 266364.464 5764933.731 96°48'35" 529.563 266377.752 5764932.144 96°48'35" 540.425 266388.538 5764930.856 96°48'35" 556.055 266404.058 5764929.003 96°48'35"

566.272 266414.203 5764927.792 96°48'35"

567.142 266415.065 5764927.688 96°48'35" IP

WHITES RD DESIGN LINE

--- IP Details ---

coordinate = 265851.9249 5764994.9358 chainage = 0.0000

IP 2

IP 1

coordinate = 266415.0655 5764927.6885 chainage = 567.1416

WHITES ROAD LONGITUDINAL SECTION

I.HOGAN M.TROUNCE M.TROUNCE

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED	CLIENT
						_
AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE	
1	20/03/24	WHITES ROAD LONG SECTION UPDATED	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
0	12/01/24	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
С	07/12/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
В	28/11/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	

A 12/09/23 ISSUED FOR APPROVAL







PROJECT

ARMSTRONG - STAGE 52
ROAD LONGITUDINAL SECTIONS - 2

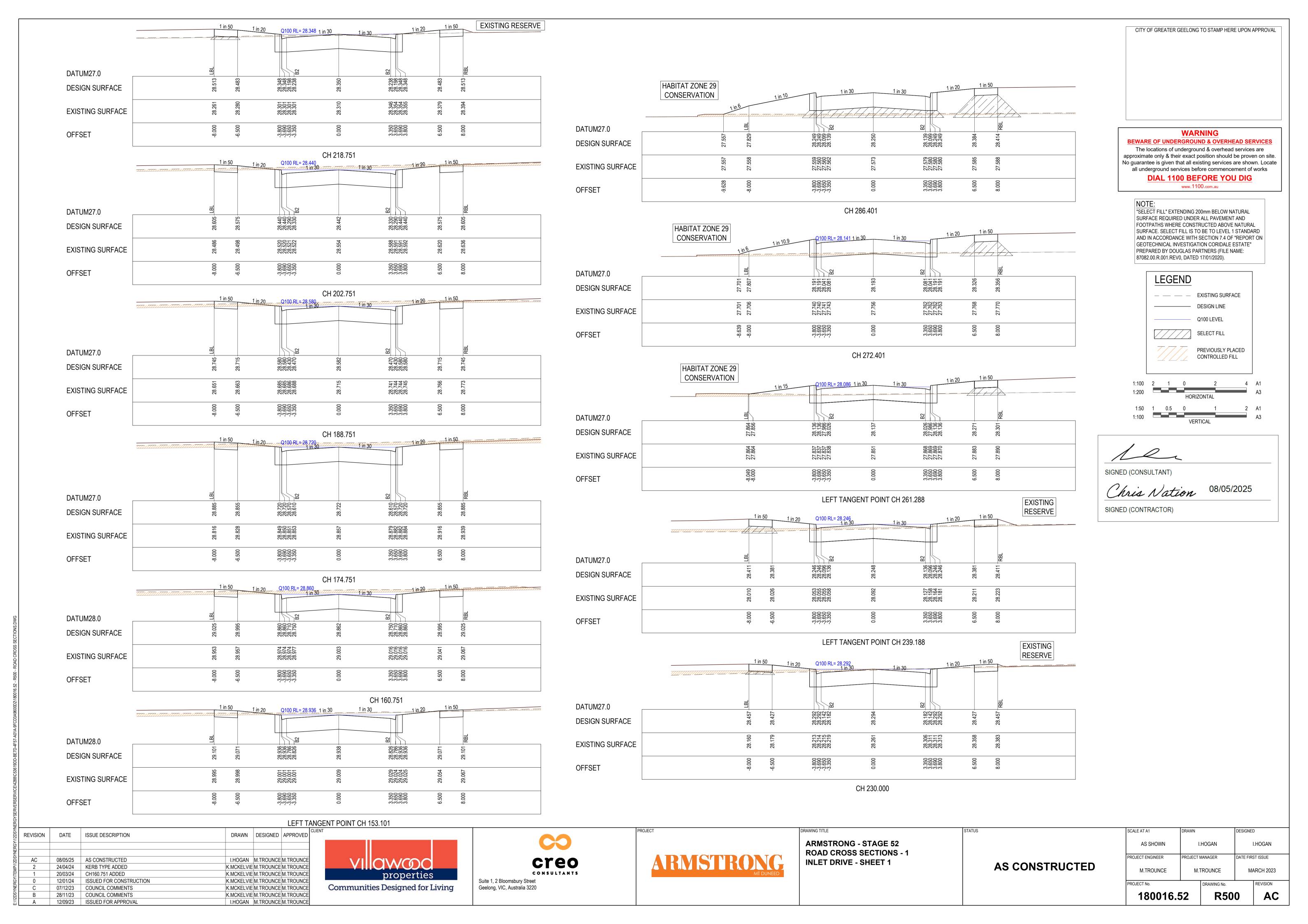
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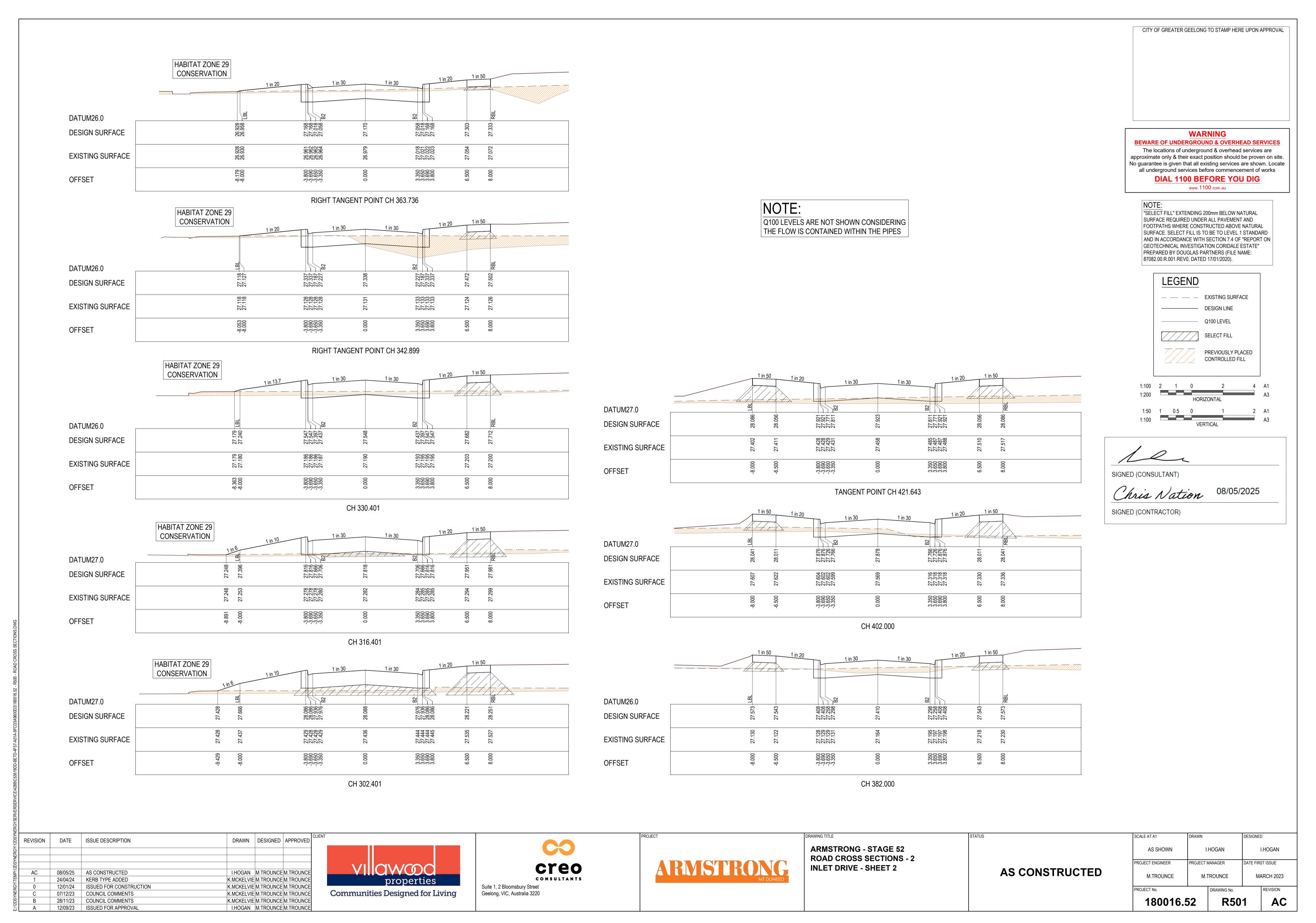
DRAWING TITLE

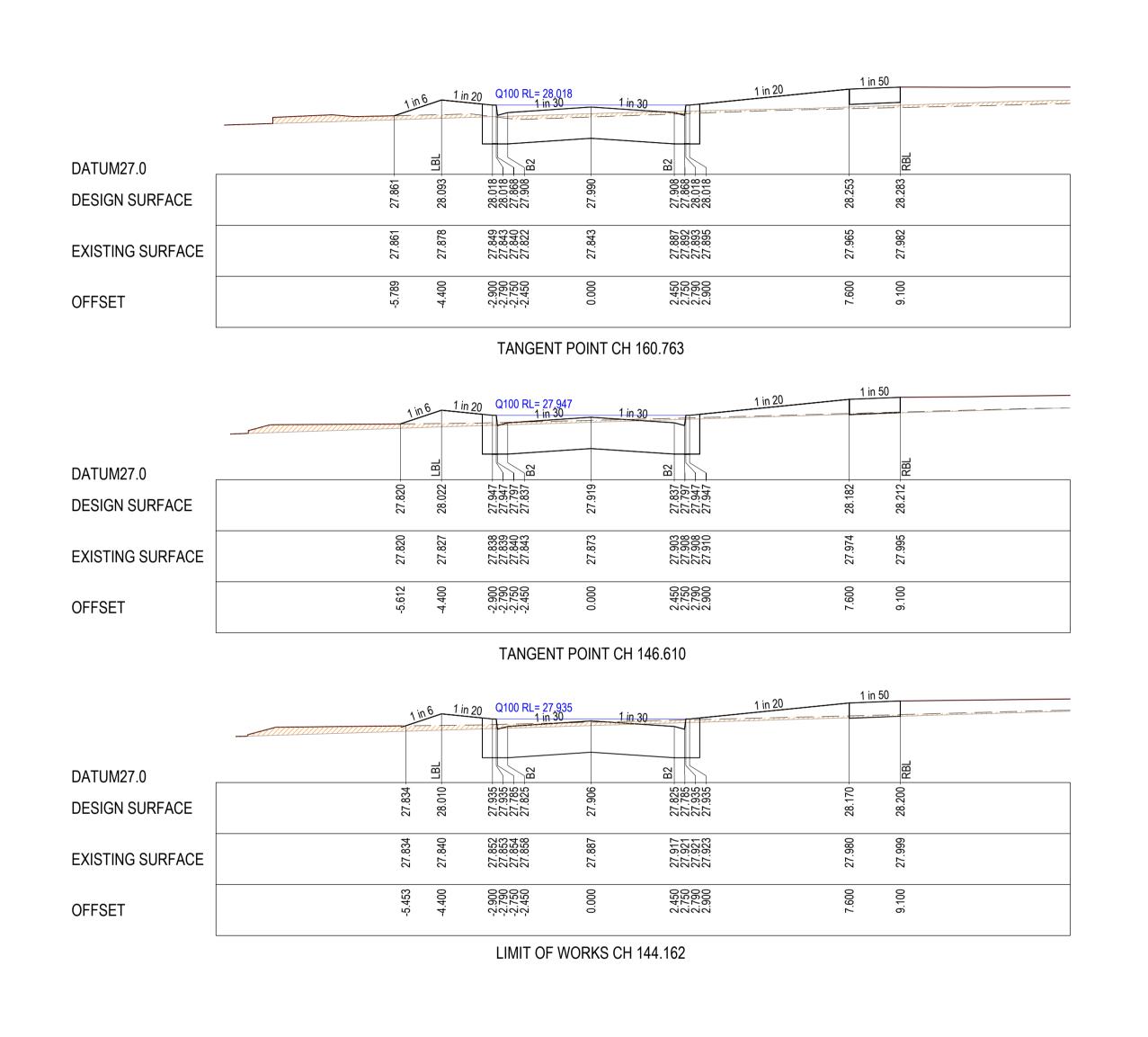
AS CONSTRUCTED	M.TROUNCE
	PROJECT ENGINEER
	AS SHOWN

SCALE AT A1	DRAWN		DESIGNED)
AS SHOWN	I.	HOGAN	١	I.HOGAN
PROJECT ENGINEER	PROJECT MANAGER		DATE FIRST ISSUE	
M.TROUNCE	M.TROUNCE		MARCI	
PROJECT No.		DRAWING No.		REVISION

180016.52 AC R401







CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

WARNING

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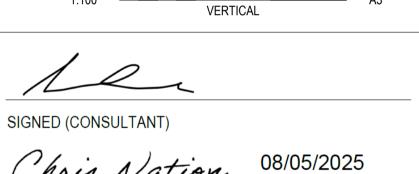
www.1100.com.au

NOTE:
"SELECT FILL" EXTENDING 200mm BELOW NATURAL
SURFACE REQUIRED UNDER ALL PAVEMENT AND
FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL
SURFACE. SELECT FILL IS TO BE TO LEVEL 1 STANDARD
AND IN ACCORDANCE WITH SECTION 7.4 OF "REPORT ON
GEOTECHNICAL INVESTIGATION CORIDALE ESTATE"

PREPARED BY DOUGLAS PARTNERS (FILE NAME:

87082.00.R.001.REV0, DATED 17/01/2020).

EXISTING SURFACE
DESIGN LINE
Q100 LEVEL
SELECT FILL
PREVIOUSLY PLACED CONTROLLED FILL



SIGNED (CONTRACTOR)

DRAWN DESIGNED APPROVED

I.HOGAN M.TROUNCE M.TROUNCE
K.MCKELVIE M.TROUNCE M.TROUNCE
K.MCKELVIE M.TROUNCE M.TROUNCE

K.MCKELVIE M.TROUNCE M.TROUNCE

K.MCKELVIE M.TROUNCE M.TROUNCE

I.HOGAN M.TROUNCE M.TROUNCE

DATE

12/01/24

07/12/23

REVISION

ISSUE DESCRIPTION

KERB TYPE ADDED

COUNCIL COMMENTS

ISSUED FOR CONSTRUCTION

08/05/25 AS CONSTRUCTED

28/11/23 COUNCIL COMMENTS

12/09/23 ISSUED FOR APPROVAL







ARMSTRONG - STAGE 52 ROAD CROSS SECTIONS - 3 MILKY WAY TERRACE

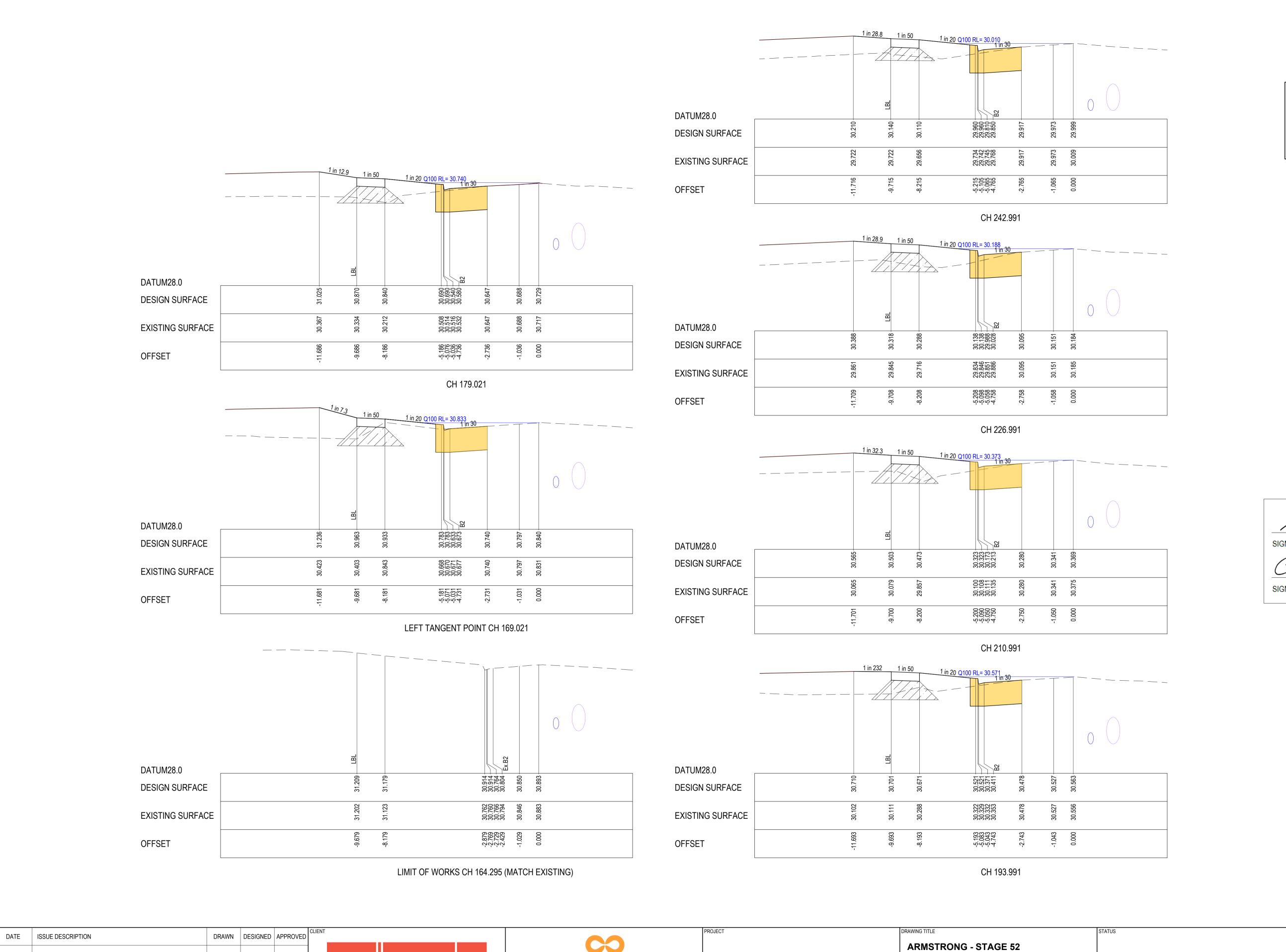
DRAWING TITLE

AS	CONSTRUCTED	

STATUS

SCALE AT A1	DRAWN		DESIGNED)		
AS SHOWN	l.	HOGAN	I	I.HOGAN		
PROJECT ENGINEER	PROJECT MANAGER I		DATE FIRST ISSUE			
M.TROUNCE	M.TROUNCE		M.TROUNCE		MA	ARCH 2023
PROJECT No.		DRAWING No.		REVISION		

180016.52 R502



creo

CONSULTANTS

Suite 1, 2 Bloomsbury Street

Geelong, VIC, Australia 3220

REVISION

08/05/25 AS CONSTRUCTED

28/11/23 COUNCIL COMMENTS 12/09/23 ISSUED FOR APPROVAL

12/01/24

07/12/23

KERB TYPE ADDED

COUNCIL COMMENTS

ISSUED FOR CONSTRUCTION

I.HOGAN M.TROUNCE M.TROUNCE

properties

Communities Designed for Living

K.MCKELVIE M.TROUNCE M.TROUNCE

K.MCKELVIE M.TROUNCE M.TROUNCE

K.MCKELVIE M.TROUNCE M.TROUNCE

K.MCKELVIE M.TROUNCE M.TROUNCE

I.HOGAN M.TROUNCE M.TROUNCE

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

WARNING

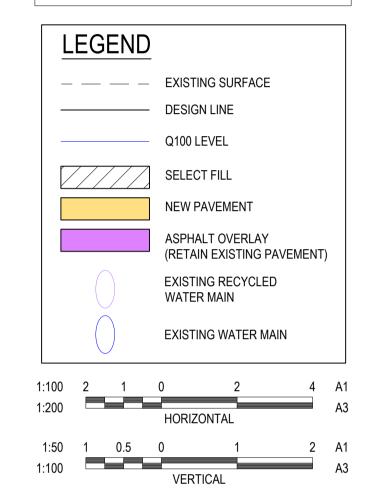
BEWARE OF UNDERGROUND & OVERHEAD SERVICES

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GEOTECHNICAL INVESTIGATION CORIDALE ESTATE"
PREPARED BY DOUGLAS PARTNERS (FILE NAME:
87082.00.R.001.REV0, DATED 17/01/2020).



SIGNED (CONSULTANT)

Chris Nation 08/05/2025

SIGNED (CONTRACTOR)

SCALE AT A1 DRAWN DESIGNED

AS SHOWN I.HOGAN I.HOGAN

PROJECT ENGINEER PROJECT MANAGER DATE FIRST ISSUE

M.TROUNCE M.TROUNCE MARCH 2023

REVISION

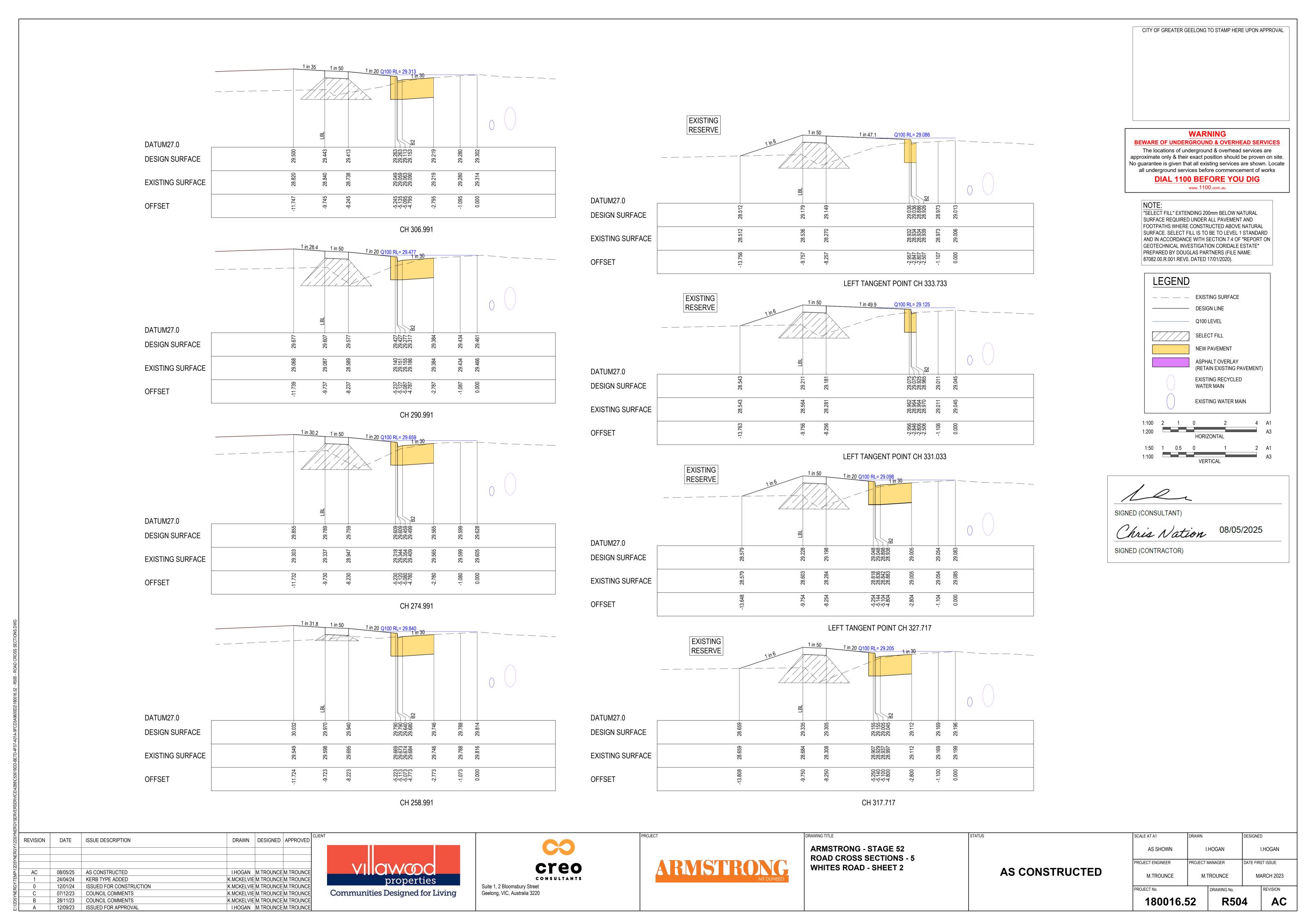
AC

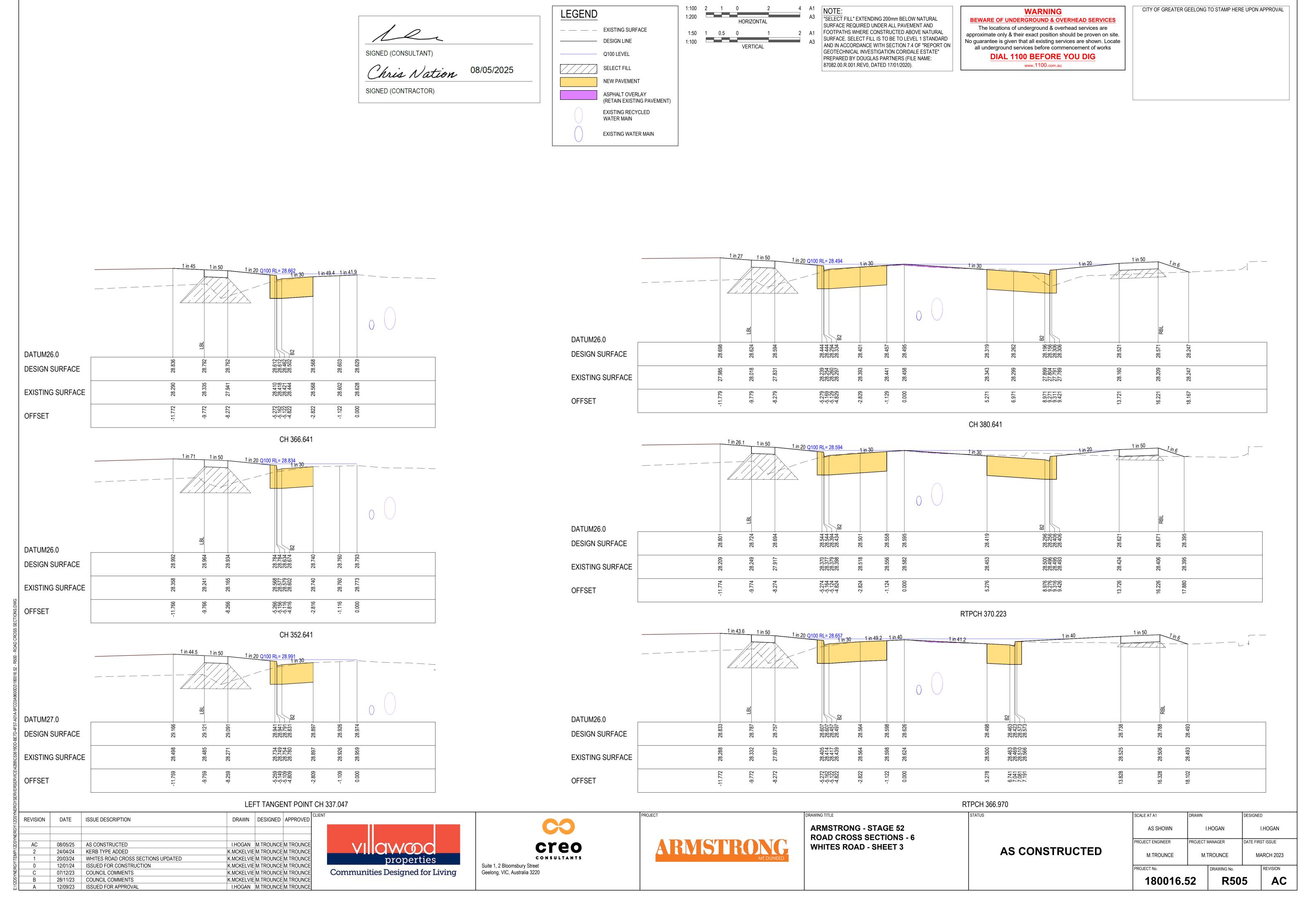
PROJECT No. DRAWING No. R503

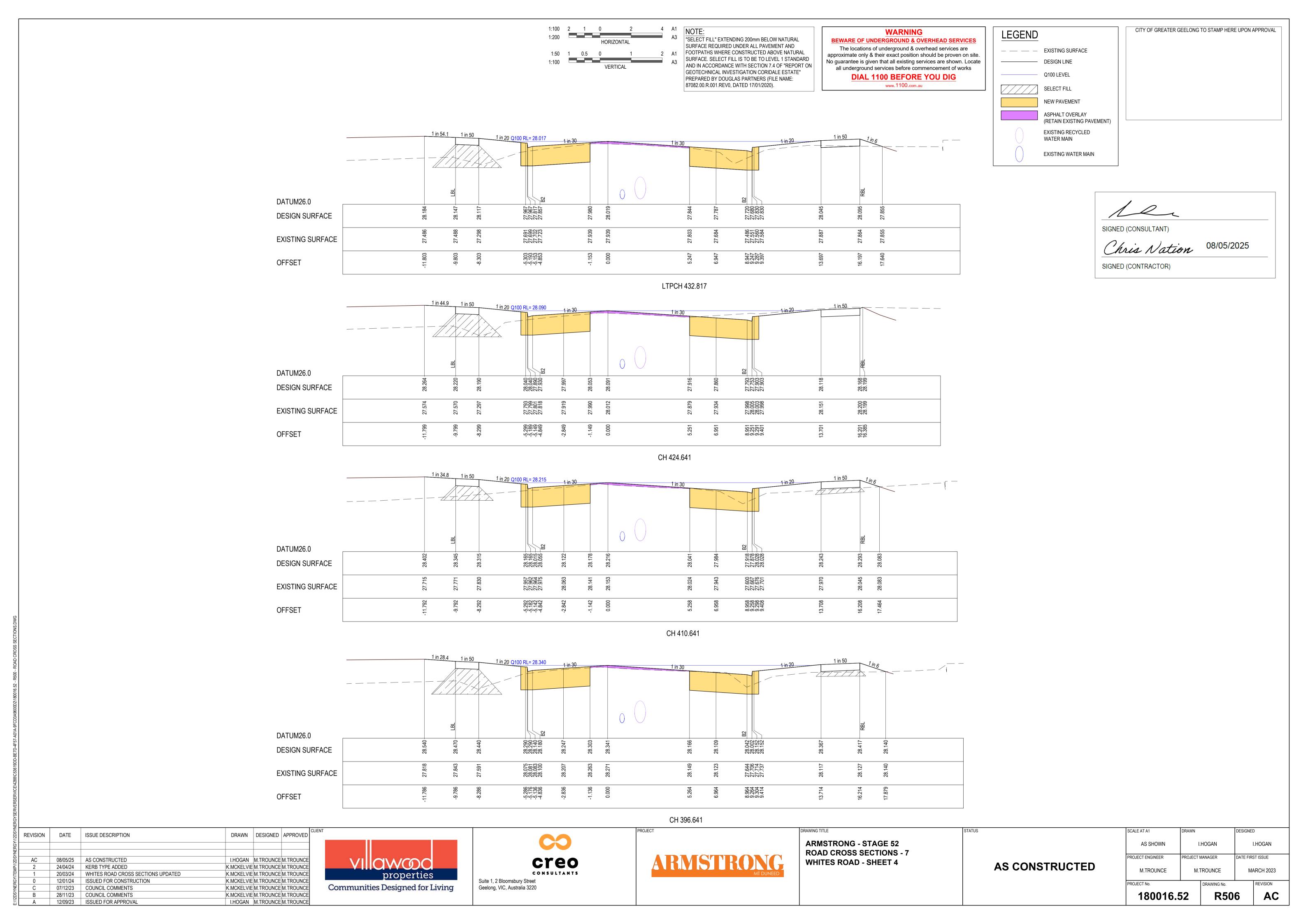
ARMSTRONG WHITES ROAD - SHEET 1

AS CONSTRUCTED

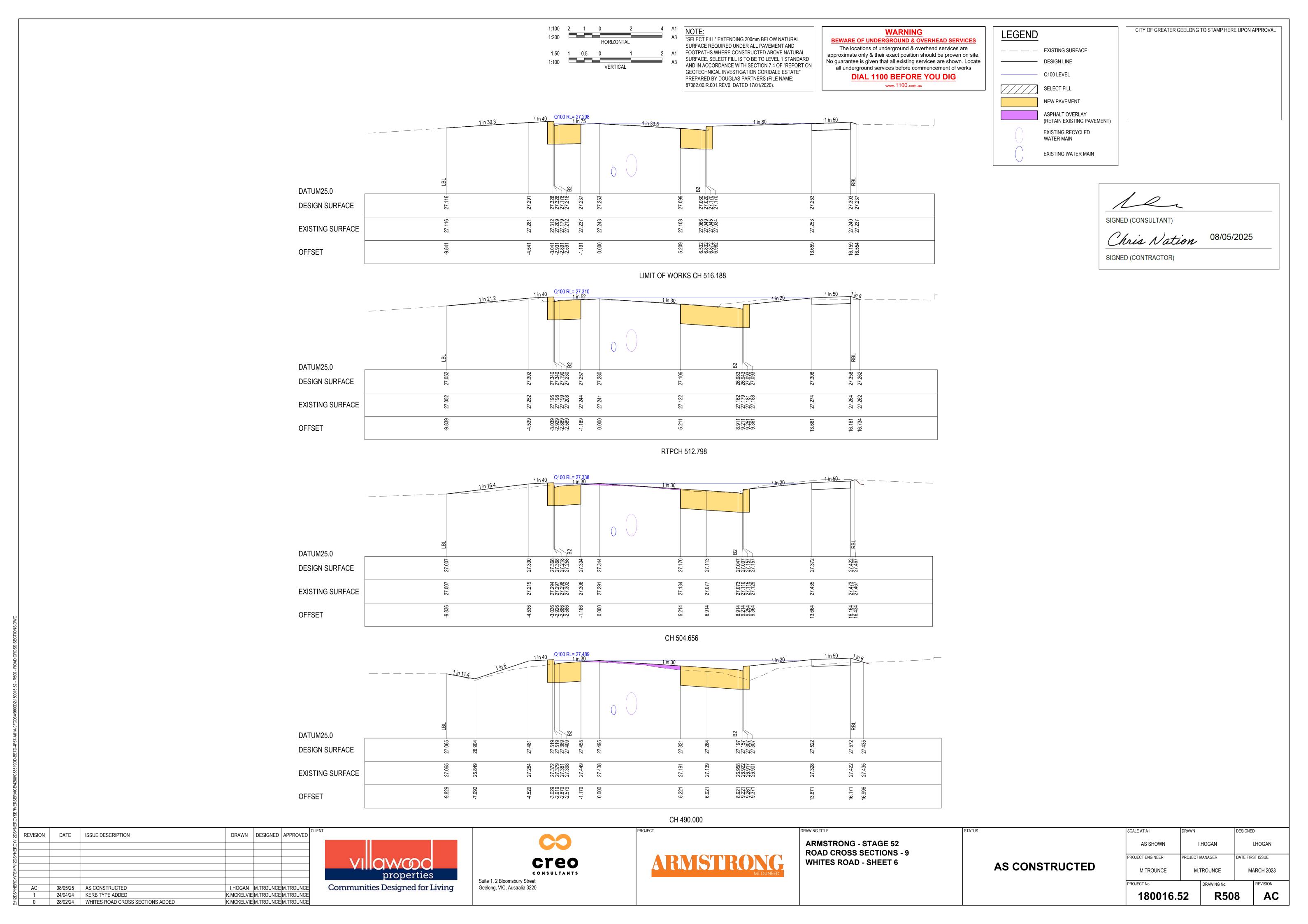
ROAD CROSS SECTIONS - 4











NOTES

PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:

- BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER. - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45

- DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
- 3. ALL DRAINAGE PIPES TO BE SPIGOT-SOCKET RUBBER RING JOINTED (RRJ).
- 4. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
- 5. WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE
- 6. ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF

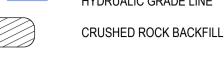
DRAINAGE PIPES

ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC OADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989, LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION OADS SHALL BE REPAIRED AT THE CONTRACTORS COST.

EXISTING SURFACE

LEGEND

DESIGN SURFACE DRAINAGE PIPE/PIT FUTURE DRAINAGE PIPE/PIT EXISTING DRAINAGE PIPE/PIT HYDRUALIC GRADE LINE



PREVIOUSLY PLACED CONTROLLED FILL

NOTE:

PIT COVERS ARE TO BE PROVIDED IN ACCORDANCE WITH CITY OF GREATER GEELONG DESIGN NOTE 13. ALL PITS WITHIN ROAD RESERVE ARE TO BE CLASS C FIBREGLASS REINFORCED PLASTIC (FRP) UNLESS AGREED OTHERWISE.

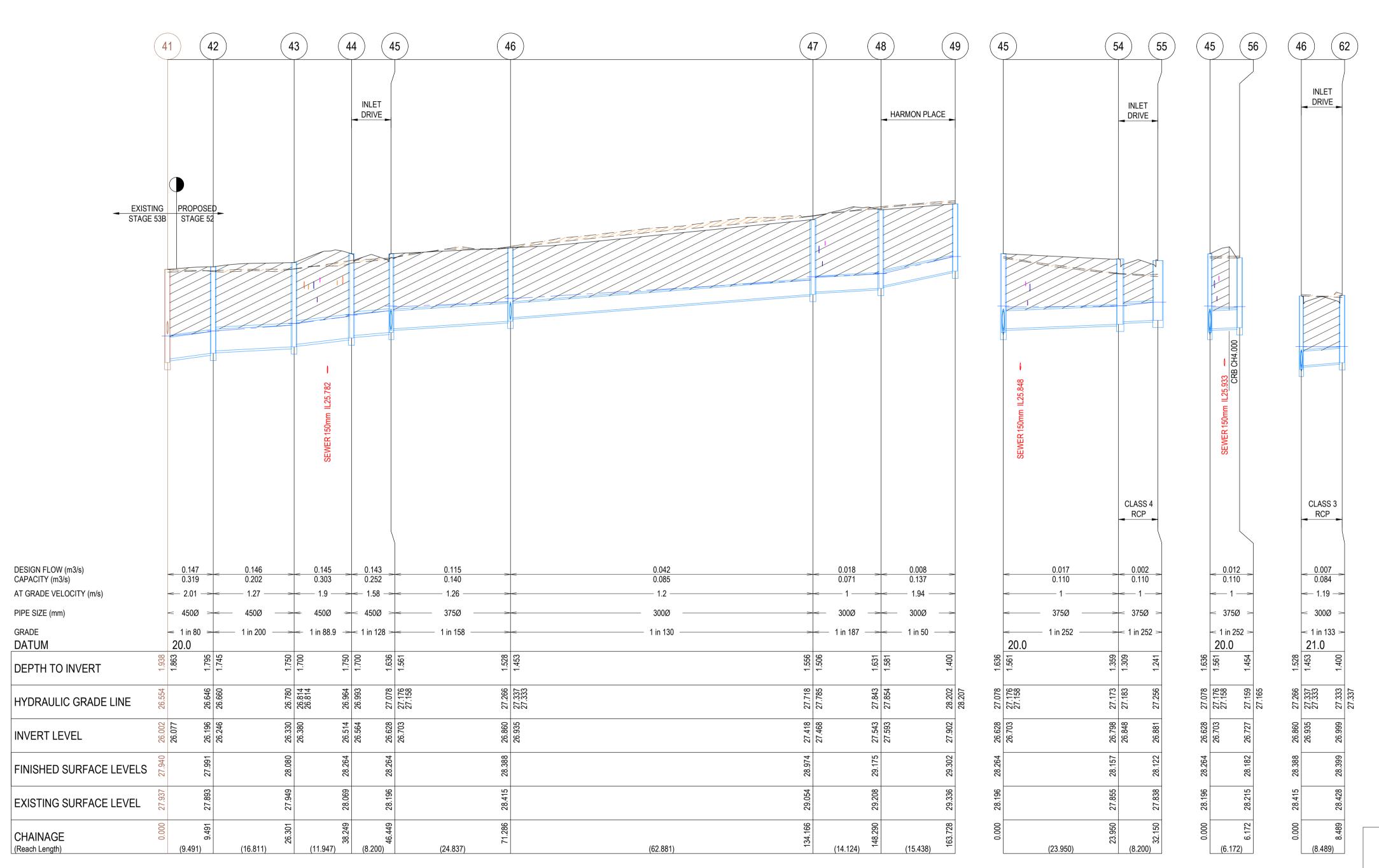
ALL FIBREGLASS REINFORCED PLASTIC (FRP) PIT COVERS ARE TO BE GREY UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.

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CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



SIGNED (CONSULTANT) 08/05/2025 SIGNED (CONTRACTOR)

180016.52

DRAWN DESIGNED APPROVED CLIENT ISSUE DESCRIPTION REVISION DATE 08/05/25 AS CONSTRUCTED I.HOGAN M.TROUNCE M.TROUNCE 12/01/24 ISSUED FOR CONSTRUCTION K.MCKELVIE M.TROUNCE M.TROUNCE K.MCKELVIE M.TROUNCE M.TROUNCE 07/12/23 COUNCIL COMMENTS K.MCKELVIE M.TROUNCE M.TROUNCE 28/11/23 COUNCIL COMMENTS

12/09/23 ISSUED FOR APPROVAL

I.HOGAN M.TROUNCE M.TROUNCE







ARMSTRONG - STAGE 52 DRAINAGE LONG SECTIONS - 1

DRAWING TITLE

AS	CONSTRUCTED

STATUS

CALE AT A1	DRAWN	DESIGNED		
AS SHOWN	I.HOGAN	I.HOGAN		
ROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE		
M.TROUNCE	M.TROUNCE	MARCH 2023		
ROJECT No.	DRAWING No.	REVISION		

R600

NOTES

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
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- DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
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- 6. ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF

DRAINAGE PIPES

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LEGEND

EXISTING SURFACE DESIGN SURFACE DRAINAGE PIPE/PIT FUTURE DRAINAGE PIPE/PIT EXISTING DRAINAGE PIPE/PIT HYDRUALIC GRADE LINE



PREVIOUSLY PLACED CONTROLLED FILL

CRUSHED ROCK BACKFILL

NOTE:

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ALL FIBREGLASS REINFORCED PLASTIC (FRP) PIT COVERS ARE TO BE GREY UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.

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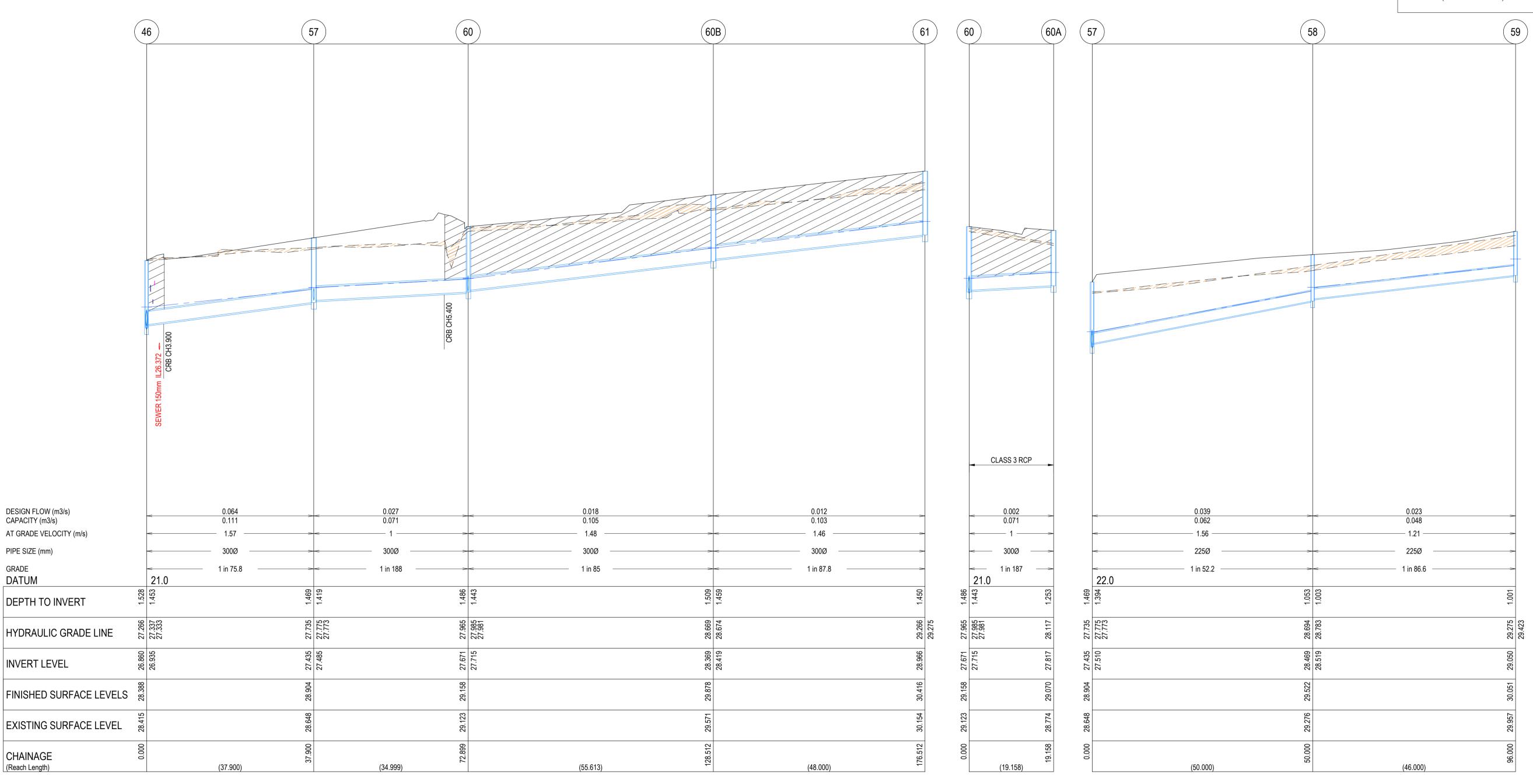
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CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

SIGNED (CONSULTANT)

08/05/2025

SIGNED (CONTRACTOR)



\12DS\	REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED		CLI
2DSYNERGY							
Σ,							
	AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE	
₩ 	2	11/03/25	PIT 139 MOVED & PIT 60 MOVED INTO PAVEMENT	I.HOGAN	M.TROUNCE	M.TROUNCE	
	1	20/03/24	PIT 60 - 61 & 60 - 60A AMENDED	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
₹Ğ	0	12/01/24	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	.]
12DSYNERGY/TEMP\1	С	07/12/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
SDS	В	28/11/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
7	Δ	12/00/23	ISSUED FOR APPROVAL	THOGAN	M TROUNCE	M TROUNCE	1







ARMSTRONG - STAGE 52 DRAINAGE LONG SECTIONS - 2

AS CONSTRUCTED	

STATUS

SCALE AT A1	DRAWN		DESIGNED)	
AS SHOWN	I.HOGAN		I.HOGAN		
PROJECT ENGINEER	PROJECT MANAGER		DATE FIRST ISSUE		
M.TROUNCE	M.7	FROUNCE	MA	ARCH 2023	
PROJECT No.		DRAWING No.		REVISION	

R601

AC

180016.52

PIPE

PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:

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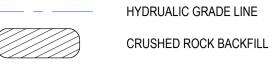
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- ALL DRAINAGE PIPES TO BE SPIGOT-SOCKET RUBBER RING JOINTED (RRJ).
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DRAINAGE PIPES

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LEGEND

EXISTING SURFACE DESIGN SURFACE DRAINAGE PIPE/PIT FUTURE DRAINAGE PIPE/PIT EXISTING DRAINAGE PIPE/PIT HYDRUALIC GRADE LINE



PREVIOUSLY PLACED CONTROLLED FILL

NOTE:

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ALL FIBREGLASS REINFORCED PLASTIC (FRP) PIT COVERS ARE TO BE GREY UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.

WARNING

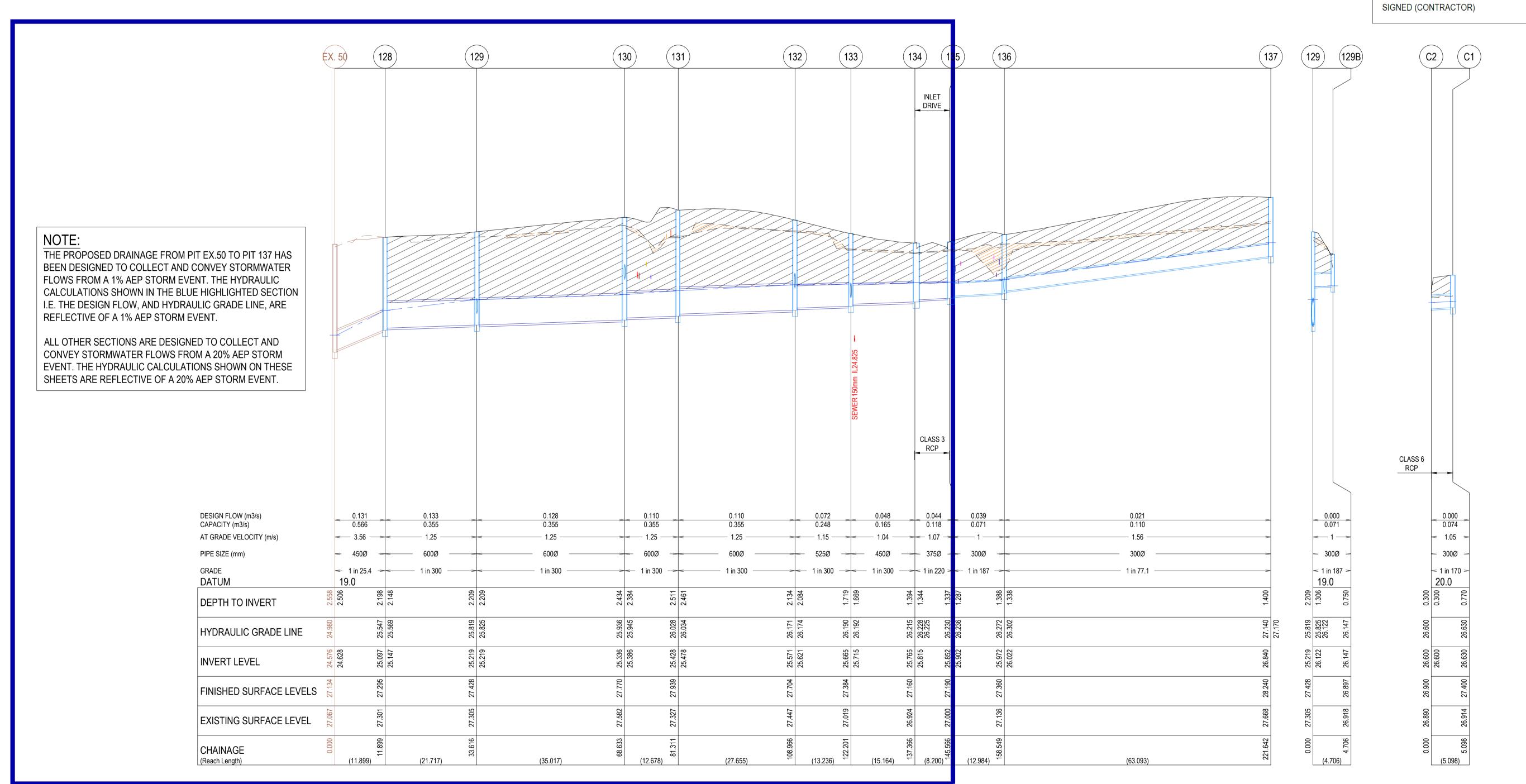
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CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

SIGNED (CONSULTANT)

08/05/2025 SIGNED (CONTRACTOR)



"							
112DSYNE	REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED	CLIE
NERGY							
Ϋ́							
NERGY\TEMP\12DSY	AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE	
IP\1	2	09/04/25	PIT C1 REVISED TO INLET CATCH PIT / DEW	T.THOMAS	M.TROUNCE	M.TROUNCE	
\TEN	1	21/05/24	DRAIN LINE 128 - 130 & 129 - 129B AMENDED	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
RGY	0	12/01/24	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
_	С	07/12/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
E:\12DS\	В	28/11/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
E:\1	Α	12/09/23	ISSUED FOR APPROVAL	I.HOGAN	M.TROUNCE	M.TROUNCE	







ARMSTRONG - STAGE 52	
DRAINAGE LONG SECTIONS - 3	

DRAWING TITLE

	SCALE AT A1	DRAWN
	AS SHOWN	I.HOGAN
	PROJECT ENGINEER	PROJECT MANAGER
AS CONSTRUCTED	M.TROUNCE	M.TROUNCI
	DDO IFCT No	DDAMMING

180016.52

I.HOGAN

MARCH 2023

AC

DATE FIRST ISSUE

R602

NOTES

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE
- COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING: - BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER. - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45
- DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
- ALL DRAINAGE PIPES TO BE SPIGOT-SOCKET RUBBER RING JOINTED (RRJ).
- ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
- WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE
- 6. ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF

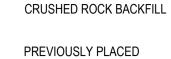
DRAINAGE PIPES

ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC OADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989, LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION OADS SHALL BE REPAIRED AT THE CONTRACTORS COST.

LEGEND

EXISTING SURFACE DESIGN SURFACE DRAINAGE PIPE/PIT

FUTURE DRAINAGE PIPE/PIT EXISTING DRAINAGE PIPE/PIT HYDRUALIC GRADE LINE



PREVIOUSLY PLACED CONTROLLED FILL

PIT COVERS ARE TO BE PROVIDED IN ACCORDANCE WITH CITY OF GREATER GEELONG DESIGN NOTE 13. ALL PITS WITHIN ROAD RESERVE ARE TO BE CLASS C FIBREGLASS REINFORCED PLASTIC (FRP) UNLESS AGREED OTHERWISE.

ALL FIBREGLASS REINFORCED PLASTIC (FRP) PIT COVERS ARE TO BE GREY UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.

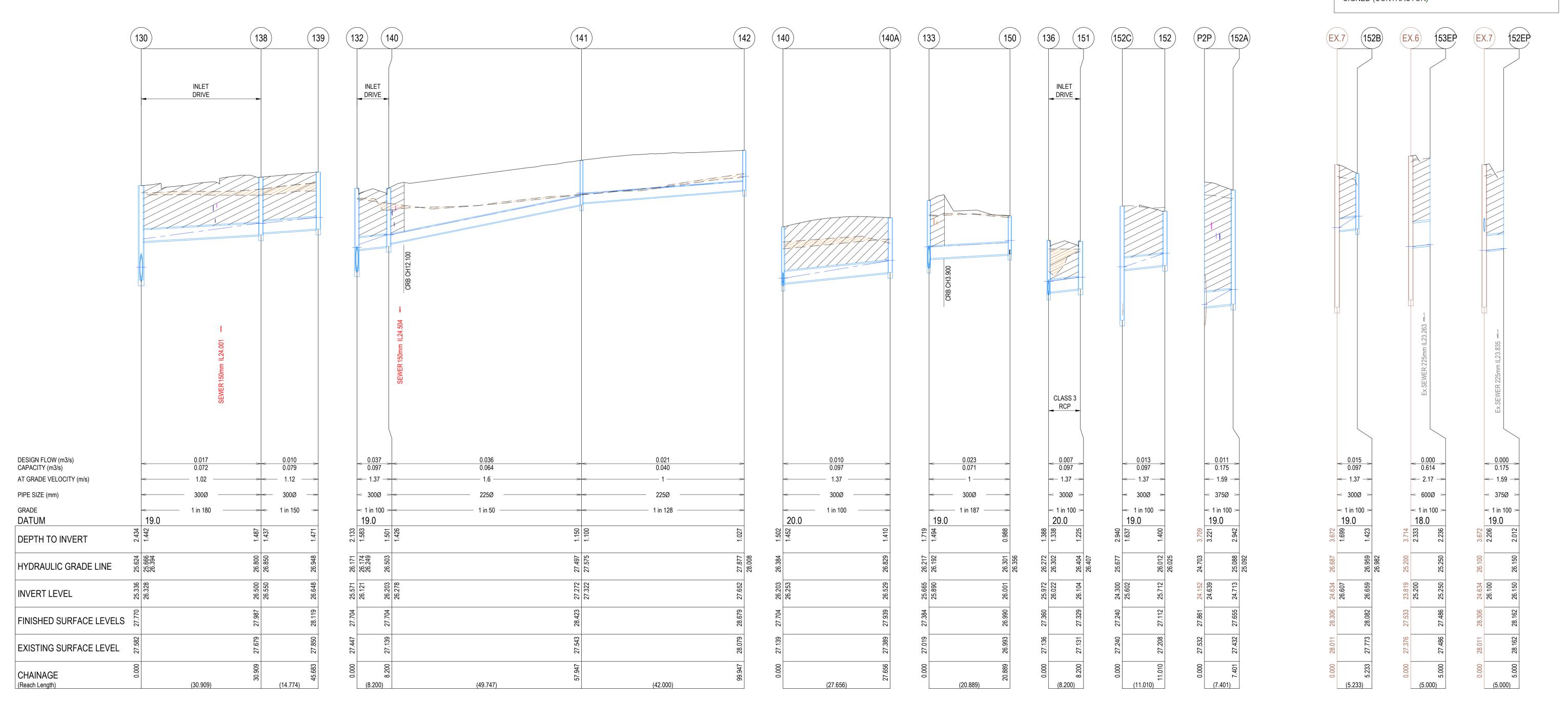
WARNING

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CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

SIGNED (CONSULTANT) 08/05/2025 SIGNED (CONTRACTOR)



12DSY	REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED
YNERGY	AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE
N.	6	07/04/25	PIT 140A TO PIT 140 ADDED	I.HOGAN	M.TROUNCE	M.TROUNCE
2DS	5	12/03/26	PIT 139 MOVED & PIT 60 MOVED INTO PAVEMENT	I.HOGAN	M.TROUNCE	M.TROUNCE
1P\1	4	27/05/24	EX 1350DIA. IL ADDED	K.MCKELVIE	M.TROUNCE	M.TROUNCE
\TEMP\	3	21/05/24	DRAIN LINE P2P-152A ADDED	K.MCKELVIE	M.TROUNCE	M.TROUNCE
NERGY	2	24/04/24	DRAIN LINE 152C- 152 AMENDED &	K.MCKELVIE	M.TROUNCE	M.TROUNCE
Ψ			DRAIN LINES EX7 - 152EP & EX.6 - 153EP ADDED			
DS)	1	20/03/24	EX.7 - 152B, EX.54 - 152A & EX.58 - 152B LINES ADDED	K.MCKELVIE	M.TROUNCE	M.TROUNCE

K.MCKELVIE M.TROUNCE M.TROUNCE

0 12/01/24 ISSUED FOR CONSTRUCTION







ARMSTRONG - STAGE 52 DRAINAGE LONG SECTIONS - 4

AS CONSTRUCTED	

STATUS

180016.	52	R60	3	AC
PROJECT No.	•	DRAWING No.	•	REVISION
M.TROUNCE	M. ⁻	TROUNCE	MA	ARCH 2023
PROJECT ENGINEER	PROJECT MANAGER		DATE FIRST ISSUE	
AS SHOWN	I.HOGAN I.HO		I.HOGAN	
SCALE AT A1	DRAWN		DESIGNED)

NOTES 1. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING: - BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER. - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE. 2. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER. 3. ALL DRAINAGE PIPES TO BE SPIGOT-SOCKET RUBBER RING JOINTED (RRJ). 4. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP. UNLESS OTHERWISE NOTED. 5. WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE. 6. ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF PIPE



NOTE:

ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC OADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989, LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION OADS SHALL BE REPAIRED AT THE CONTRACTORS COST.

IN ACCORDANCE WITH C.O.G.G DESIGN NOTE 8 (DATED JANUARY 2020) EXISTING DRAINAGE LOCATED WITHIN

PROPOSED STAGE WORKS ARE REQUIRED TO BE RE-CCTV'D TO CONFIRM NO CONSEQUENTIAL DAMAGE HAS OCCURRED.

LEGEND

PREVIOUSLY PLACED CONTROLLED FILL

EXISTING SURFACE

DESIGN SURFACE

DRAINAGE PIPE/PIT

FUTURE DRAINAGE PIPE/PIT

EXISTING DRAINAGE PIPE/PIT

HYDRUALIC GRADE LINE

CRUSHED ROCK BACKFILL

NOTE:

PIT COVERS ARE TO BE PROVIDED IN ACCORDANCE WITH CITY OF GREATER GEELONG DESIGN NOTE 13. ALL PITS WITHIN ROAD RESERVE ARE TO BE CLASS C FIBREGLASS REINFORCED PLASTIC (FRP) UNLESS AGREED OTHERWISE.

NOTE:

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WARNING

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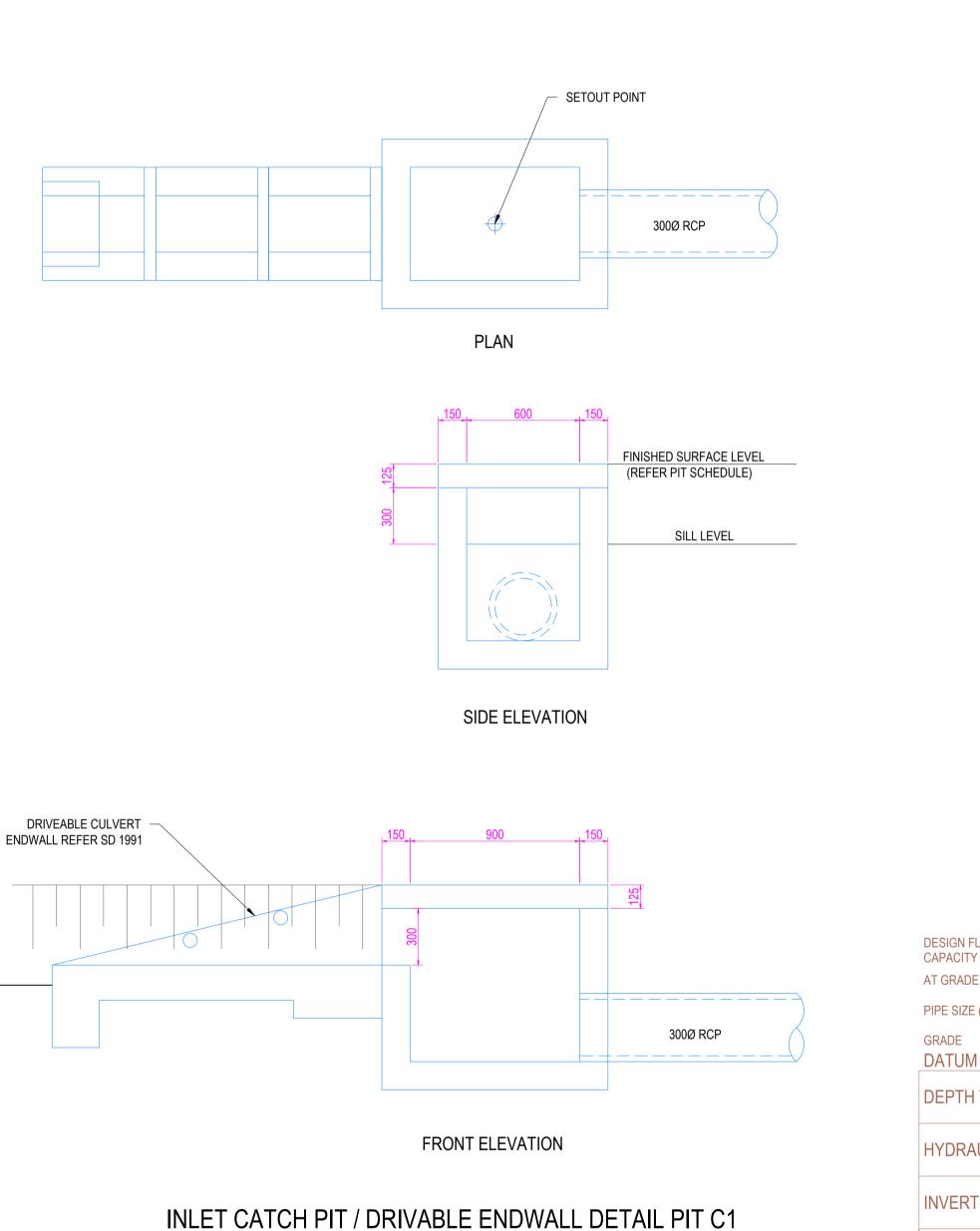
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CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

SIGNED (CONSULTANT)

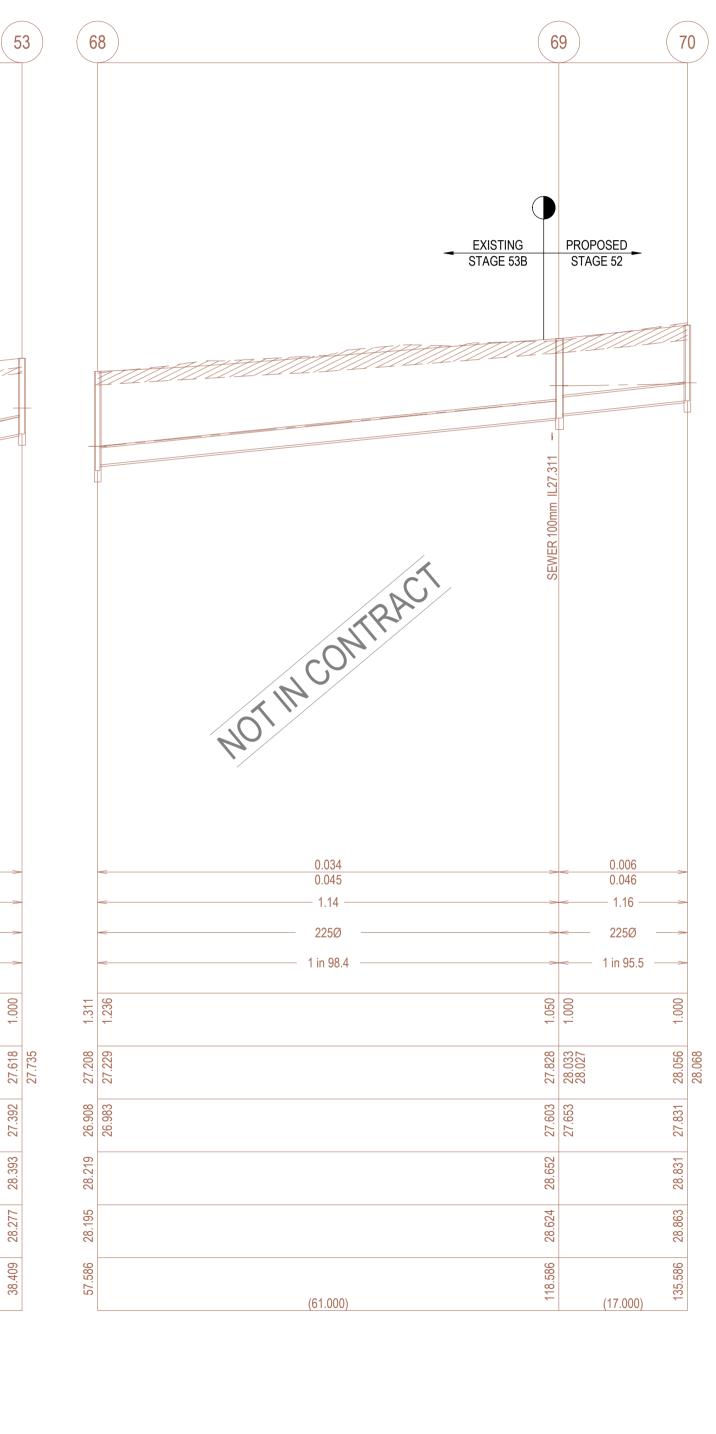
08/05/2025

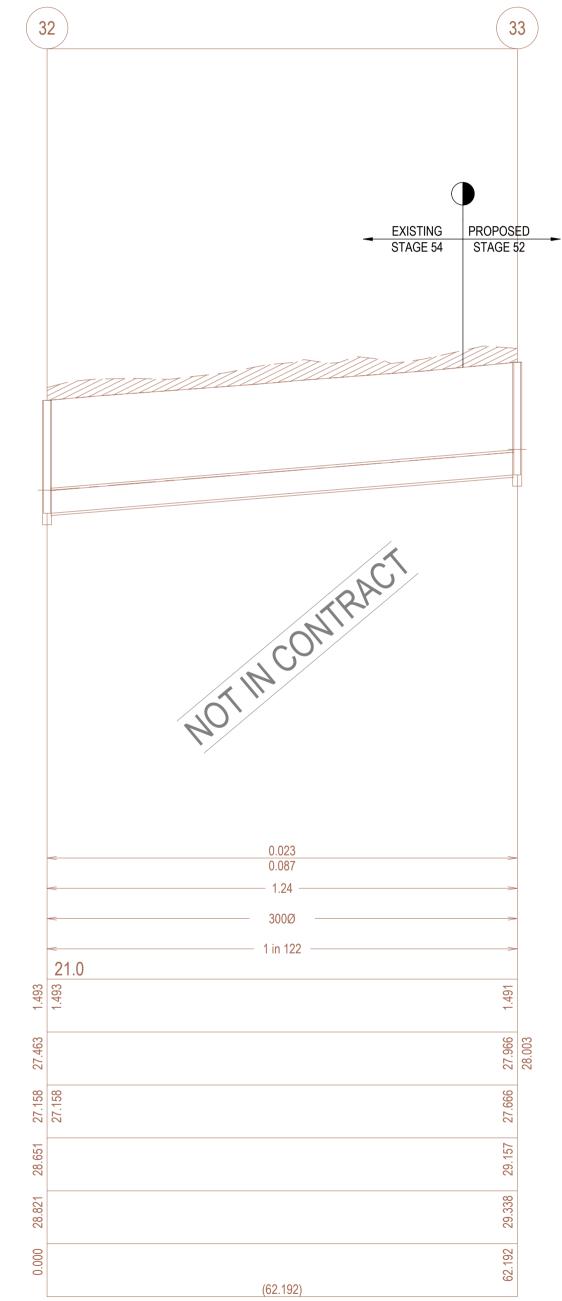
SIGNED (CONTRACTOR)





41





DRAWN DESIGNED APPROVED CLIENT ISSUE DESCRIPTION REVISION DATE 08/05/25 AS CONSTRUCTED I.HOGAN M.TROUNCE M.TROUNCE T.THOMAS M.TROUNCE M.TROUNCE PIT C1 DETAIL ADDED ISSUED FOR CONSTRUCTION K.MCKELVIE M.TROUNCE M.TROUNCE K.MCKELVIE M.TROUNCE M.TROUNCE 07/12/23 COUNCIL COMMENTS K.MCKELVIE M.TROUNCE M.TROUNCE 28/11/23 COUNCIL COMMENTS I.HOGAN M.TROUNCE M.TROUNCE 12/09/23 ISSUED FOR APPROVAL







DRAWING TITLE
ARMSTRONG - STAGE 52
DRAINAGE LONG SECTIONS - 5

	SCALE AT A1	DRAWN		DESIGNE)
	AS SHOWN	l.	HOGAN		I.HOGAN
	PROJECT ENGINEER	PROJECT N	MANAGER	DATE FIRS	ST ISSUE
S CONSTRUCTED	M.TROUNCE	M.TROUNCE		MA	ARCH 2023
	PROJECT No.		DRAWING No.		REVISION

180016.52

R604

ALL FIBREGLASS REINFORCED PLASTIC (FRP) PIT COVERS ARE TO BE GREY UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.

NOTE:

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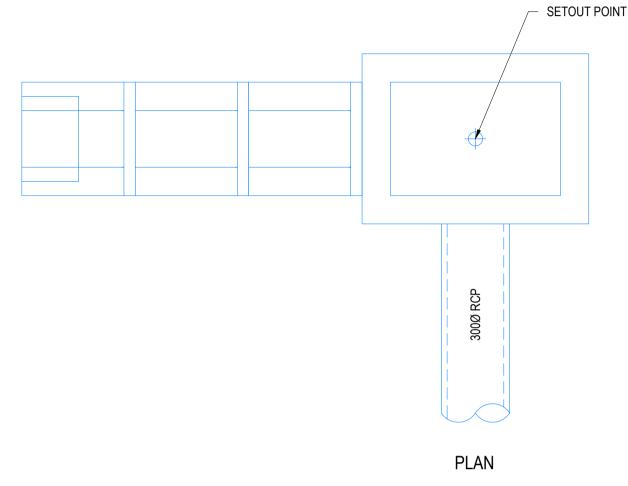
www.1100.com.au

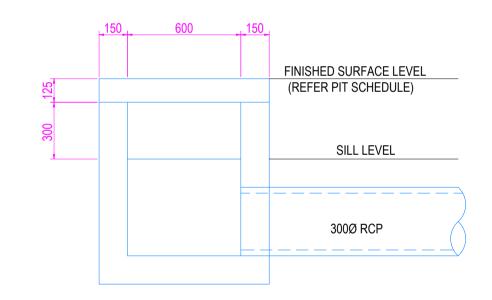
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

INTERNAL INLET OUTLET PIT NUMBER TYPE COVER LEVEL (m) | DEPTH (m) | STANDARD DRAWING **REMARKS** WIDTH (mm) | LENGTH (mm) | DIA. (mm) | INVERT RL (m) | DIA. (mm) | INVERT RL (m) SIDE ENTRY PIT 600 450 26.077 525 26.002 27.940 1.938 CONNECT TO EXISTING BLOCKOUT 225 26.616 42 SIDE ENTRY PIT 900 600 IDM SD 430 450 26.246 450 26.196 27.991 1.795 43 SIDE ENTRY PIT 600 900 450 26.380 450 26.330 28.080 1.750 IDM SD 430 900 SIDE ENTRY PIT 600 450 26.564 26.514 1.750 IDM SD 430 450 28.264 45 600 900 SIDE ENTRY PIT 375 26.628 28.264 1.636 IDM SD 430 26.703 450 375 26.703 375 26.703 46 SIDE ENTRY PIT 600 900 300 26.935 375 26.860 28.388 1.528 **IDM SD 430** 300 26.935 300 26.935 47 600 900 SIDE ENTRY PIT 300 27.468 300 27.418 1.556 IDM SD 430 28.974 48 DEPRESSED GRATED PIT 600 900 300 27.593 300 27.543 29.175 1.631 IDM SD 455 PIT TO BE PROVIDED WITH HEAVY DUTY, CLASS D, TRAFFICABLE COVER 49 DEPRESSED GRATED PIT 600 900 **IDM SD 455** PIT TO BE PROVIDED WITH HEAVY DUTY, CLASS D, TRAFFICABLE COVER 300 27.902 29.302 1.400 EX. 50 SIDE ENTRY PIT 900 450 24.628 27.134 2.558 600 54 DOUBLE SIDE ENTRY PIT 600 1900 375 26.848 375 26.798 1.359 IDM SD 445 28.157 55 DOUBLE SIDE ENTRY PIT 600 1900 375 26.881 1.241 IDM SD 445 28.122 56 DEPRESSED GRATED PIT 600 900 375 26.727 28.182 1.454 IDM SD 455 57 600 900 JUNCTION PIT 300 27.485 300 27.435 28.904 1.469 IDM SD 425 225 27.510 58 JUNCTION PIT 600 900 IDM SD 425 225 28.519 225 28.469 29.522 1.053 59 600 900 JUNCTION PIT 225 29.050 30.051 1.001 IDM SD 425 PIT TO BE PROVIDED WITH HEAVY DUTY, CLASS D, TRAFFICABLE COVER 60 600 900 27.715 300 JUNCTION PIT 300 IDM SD 420 27.671 29.158 1.486 300 27.715 60A SIDE ENTRY PIT 600 900 300 27.817 29.070 1.253 **IDM SD 430** 60B SIDE ENTRY PIT 600 900 300 28.419 300 28.369 1.509 **IDM SD 430** 29.878 SIDE ENTRY PIT 28.966 61 600 900 300 30.416 1.450 IDM SD 430 62 SIDE ENTRY PIT 600 900 **IDM SD 430** 300 26.999 1.400 28.399 128 SIDE ENTRY PIT 900 900 IDM SD 410 & 430 PIT TO BE HAUNCHED 600x900 COVER. CONNECT EXISTING DN450 DRAIN TO PIT 128. 600 25.147 25.097 27.339 2.242 450 129 SIDE ENTRY PIT 900 900 25.219 600 25.219 27.428 2.209 IDM SD 410 & 430 PIT TO BE HAUNCHED 600x900 COVER. PIT TO BE PROVIDED WITH HEAVY DUTY, CLASS D, TRAFFICABLE COVER 600 300 26.122 IDM SD 460 & VICROADS JUNCTION PIT INLET CATCH / DEW 900 129B 600 300 26.147 26.897 0.750 REFER DETAIL ON THIS SHEET SD1991 REV A 130 PIT TO BE HAUNCHED 600x900 COVER. PIT TO BE PROVIDED WITH HEAVY DUTY, CLASS D, TRAFFICABLE COVER SIDE ENTRY PIT 900 900 IDM SD 410 & 430 600 25.386 600 25.336 27.770 2.434 300 26.328 131 900 900 IDM SD 410 & 430 SIDE ENTRY PIT PIT TO BE HAUNCHED 600x900 COVER. 600 25.478 600 25.428 27.939 2.511 132 SIDE ENTRY PIT 900 900 525 25.621 600 25.571 27.704 2.134 IDM SD 410 & 430 PIT TO BE HAUNCHED 600x900 COVER. 300 26.121 133 900 SIDE ENTRY PIT 900 450 25.715 525 25.665 1.719 **IDM SD 430** 27.384 300 25.890 134 DOUBLE SIDE ENTRY PIT 600 1900 IDM SD 445 375 25.815 450 25.765 27.160 1.394 135 DOUBLE SIDE ENTRY PIT 600 1900 300 25.902 375 25.852 27.190 1.337 IDM SD 445 136 600 900 SIDE ENTRY PIT 300 25.972 1.388 IDM SD 430 300 26.022 27.360 300 26.022 137 SIDE ENTRY PIT 600 900 IDM SD 430 300 26.840 28.240 1.400 138 600 900 300 SIDE ENTRY PIT 26.550 300 26.500 27.987 1.487 **IDM SD 430** 139 SIDE ENTRY PIT 600 900 300 26.648 IDM SD 430 28.119 1.471 140 600 SIDE ENTRY PIT 900 300 IDM SD 430 225 26.278 26.203 27.704 1.501 300 26.253 140A SIDE ENTRY PIT 300 26.529 27.939 1.41 **IDM SD 430** 141 JUNCTION PIT 600 900 225 225 IDM SD 425 27.322 27.272 1.150 28.423 142 JUNCTION PIT 600 900 225 27.652 IDM SD 425 1.027 28.679 150 JUNCTION PIT 600 900 300 26.001 IDM SD 425 26.990 0.988 151 SIDE ENTRY PIT 600 900 300 26.104 27.329 1.225 IDM SD 430 C1 JUNCTION PIT INLET CATCH / DEW 600 900 300 26.630 VICROADS SD 1991 27.400 0.770 C2 DRIVEABLE ENDWALL TYPE 1 300 26.600 26.900 0.300 VICROADS SD 1991

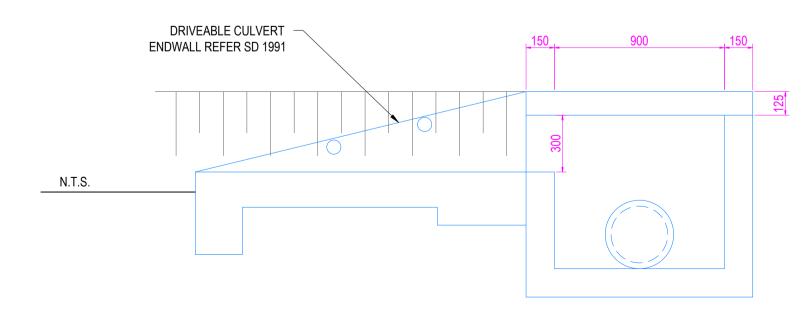
PIT SCHEDULE







SIDE ELEVATION



FRONT ELEVATION

INLET CATCH PIT / DRIVABLE ENDWALL DETAIL PIT 129B

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED	CLIENT
AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE	
6	07/04/25	PIT 140A TO PIT 140 ADDED	I.HOGAN	M.TROUNCE	M.TROUNCE	
5	12/03/26	PIT 139 MOVED & PIT 60 MOVED INTO PAVEMENT	I.HOGAN	M.TROUNCE	M.TROUNCE	:
4	27/05/24	EX 1350DIA. IL ADDED	K.MCKELVIE	M.TROUNCE	M.TROUNCE	:
3	21/05/24	DRAIN LINE P2P-152A ADDED	K.MCKELVIE	M.TROUNCE	M.TROUNCE	:
2	24/04/24	DRAIN LINE 152C- 152 AMENDED &	K.MCKELVIE	M.TROUNCE	M.TROUNCE	:
		DRAIN LINES EX7 - 152EP & EX.6 - 153EP ADDED				
1	20/03/24	EX.7 - 152B, EX.54 - 152A & EX.58 - 152B LINES ADDED	K.MCKELVIE	M.TROUNCE	M.TROUNCE	:
0	12/01/24	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	

600

600

600

600

EX.6

EX.7

EX.54

Ex.58

152

152A

152B

152C

152EP

153EP

P2P

JUNCTION PIT

JUNCTION PIT

GRATED PIT

JUNCTION PIT

SIDE ENTRY PIT

SIDE ENTRY PIT

SIDE ENTRY PIT

JUNCTION PIT

ENDPIPE

ENDPIPE

PIPE TO PIPE



27.533

28.306

28.306

27.313

27.225

27.112

27.655

28.082

27.240

28.162

27.486

27.861

2.333

3.672

3.672

1.847

2.663

1.400

2.942

1.423

2.940

2.012

2.236

3.221

IDM SD 430

IDM SD 430

IDM SD 430

IDM SD 430

IDM SD 425

MW STD DWG 7251/08/425

25.200

26.607

26.100

25.466

25.608

25.602

24.639

300

375

300

300

375

600

25.712

24.713

26.659

24.430

26.150

25.250

300

300

300

375

900

900

900

900





CONNECT TO EXISTING PIT

CONNECT TO EXISTING PIT

BREAK INTO EXISTING PIT & MAKE GOOD CONNECTION. CONVERT EXISTING PIT TO SIDE ENTRY PIT

PIT TO BE CONSTRUCTED OVER EXISTING PIPE

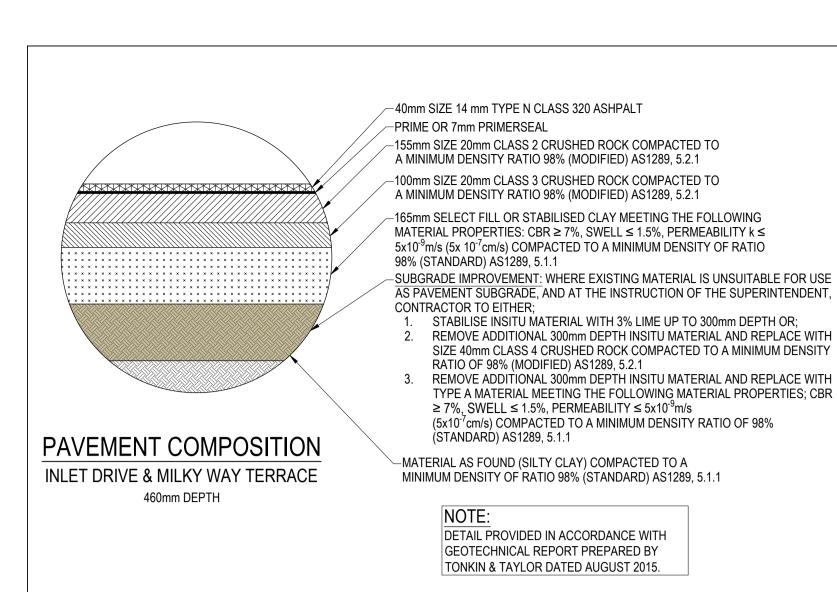
ENDPIPE TO BE CAPPED PRIOR TO BACKFILLING

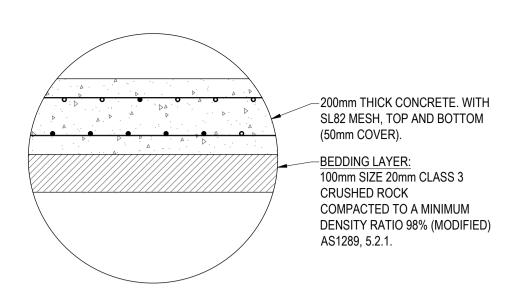
ENDPIPE TO BE CAPPED PRIOR TO BACKFILLING

DRAWING TITLE	STATUS
ARMSTRONG - STAGE 52 PIT SCHEDULE	
	AS CONSTRUC

	SCALE AT A1	DRAWN	DESIGNED
	AS SHOWN	I.HOGAN	I.HOGAN
	PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
AS CONSTRUCTED	M.TROUNCE	M.TROUNCE	MARCH 2023
	DDO JEOT N		DEV/IOLON

180016.52





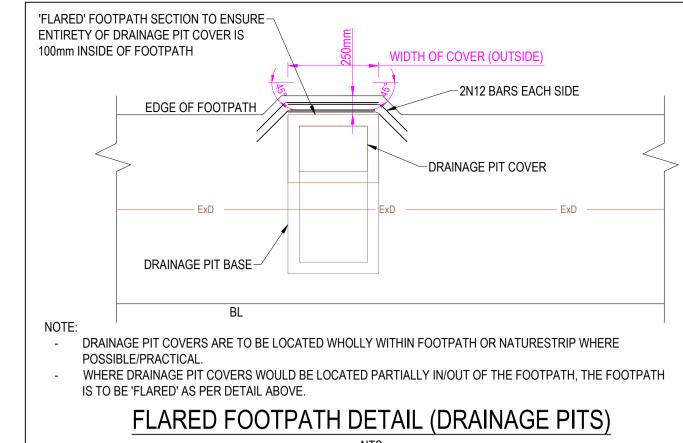
LOT VEHICLE CROSSING WIDTH (m)

(AT BOUNDARY)

PAVEMENT COMPOSITION HARMON PLACE 300mm DEPTH

NO.

5235



PROPOSED ARMSTRONG EXISTING PAVEMENT STAGE 52 WORKS -JOINTS TO BE SAW CUT IN 150mm (MIN) STEPS -APPLY TACK COAT PRIOR TO APPLICATION OF BASE 40mm DEPTH SIZE 10mm TYPE H ASPHALT COURSE ASPHALT TO ENSURE GOOD BOND BETWEEN EXISTING PAVEMENT SURFACE AND NEW ASPHALT 45mm DEPTH SIZE 14mm TYPE SI ASPHALT-OVERLAY. EXISTING SURFACE TO BE SWEPT CLEAN PRIOR TO APPLICATION OF TACK COAT -2No. LAYERS OF DEEP LIFT ASPHALT OVERLAY TO EXTEND OVER NEW AND OLD PAVEMENTS -EXISTING ASPHALT LAYER (40-60mm NOMINAL DEPTH) -EXISTING WHITES ROAD PAVEMENT - SEAL EXISTING CRACKS & PATCH OUT VISUALLY DISTRESSED SECTIONS OF PAVEMENT WITH 200mm DEPTH SIZE 20mm TYPE SI ASPHALT PRIOR TO RESURFACING -INTERFACE DRAIN. NO FINES CONCRETE WRAPPED IN REFER IDM SD 145-APPROVED GEOTEXTILE WITH 100mmØ CLASS 1000 PVC SLOTTED SUBSOIL PIPE (SUBSOIL DRAIN TYPE 2). 105mm COMPACTED DEPTH OF 20mm-NFC INTERFACE DRAIN ONLY REQUIRED WHEN NOM/SIZE CLASS 2 FCR TO MATCH PAVEMENT WIDENING > 1.2m EXISTING BASE COURSE LAYER AVERAGE 440mm COMPACTED DEPTH—
20mm NOM. SIZE CLASS 3 FCR. DEPTH
WHITES ROAD - PAVEMENT DETAIL TO MATCH EXISTING WHITES ROAD REFER GRANGE DEVELOPMENT GEOTECHNICAL 630mm DEPTH (AVERAGE) INVESTIGATION & PAVEMENT DESIGN REPORT PAVEMENT SUBBASE LAYER PREPARED BY SMEC - DATED 14 DECEMBER 2017

WARNING BEWARE OF UNDERGROUND & OVERHEAD SERVICES

The locations of underground & overhead services are

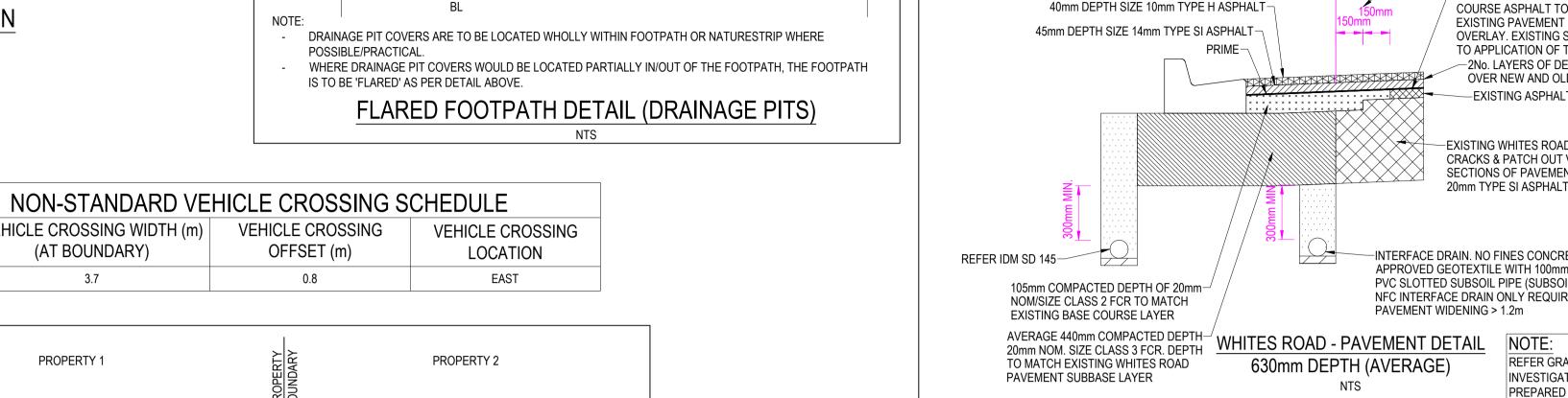
approximate only & their exact position should be proven on site.

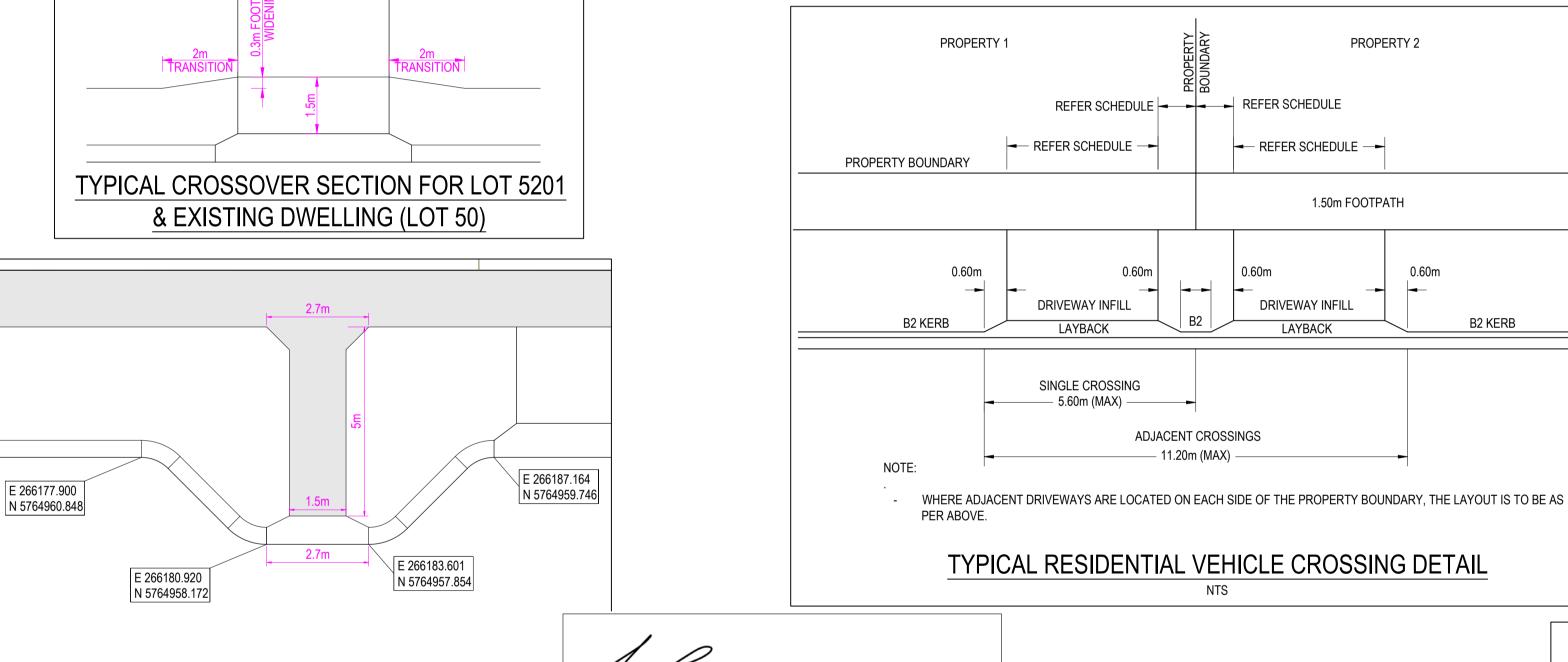
No guarantee is given that all existing services are shown. Locate

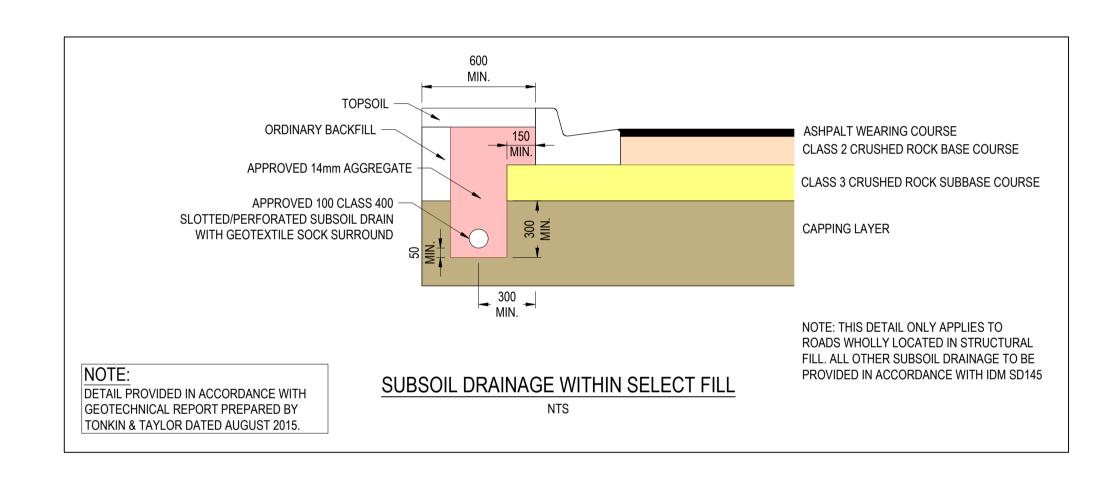
all underground services before commencement of works

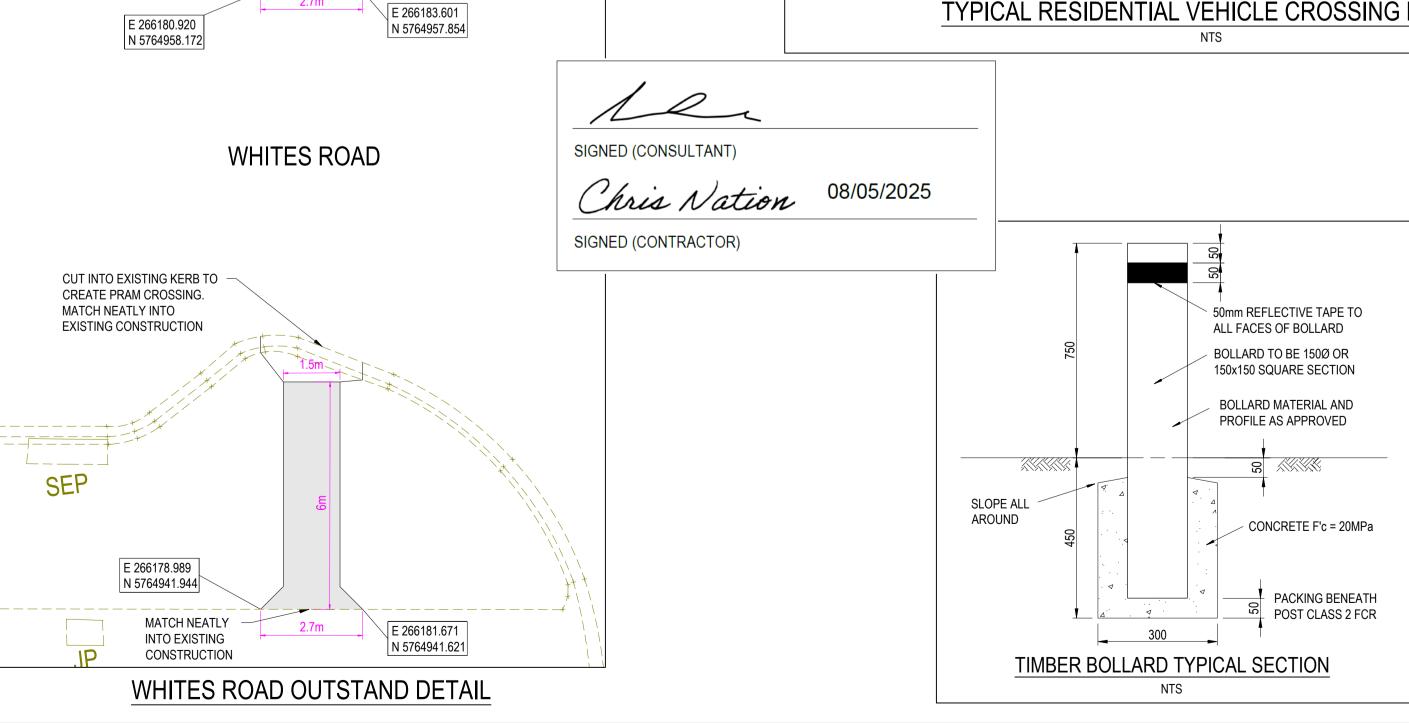
DIAL 1100 BEFORE YOU DIG

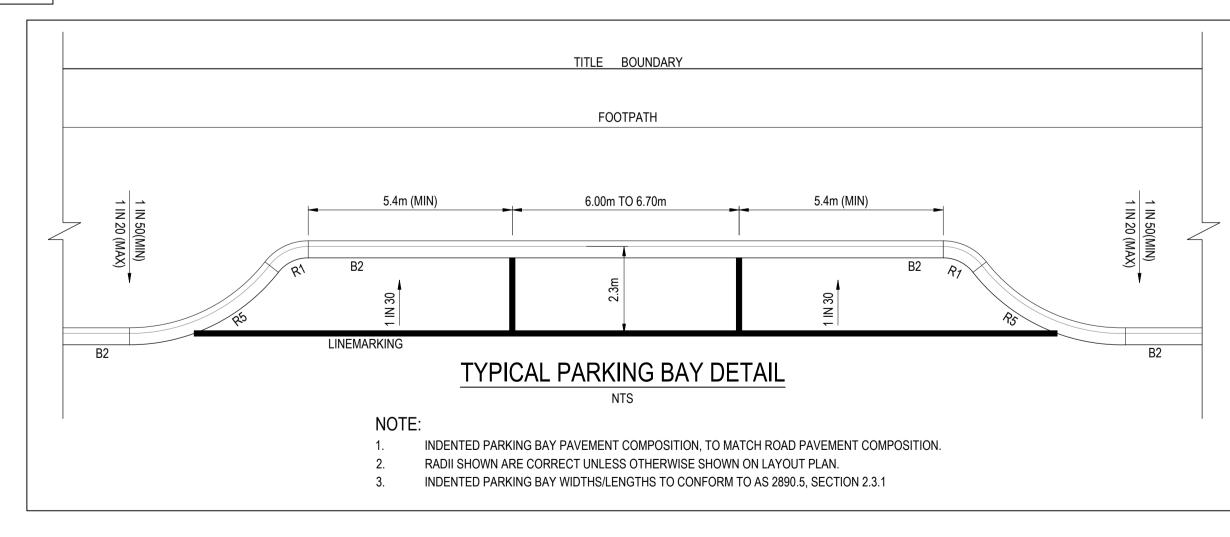
www.1100.com.au











	REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED	CL
							1
	AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE]
	1	24/04/24	VEHICLE CROSSING DETAIL AMENDED & VEHICLE CROSSING	K.MCKELVIE	M.TROUNCE	M.TROUNCE	:
			SCHEDULE & FLARED FOOTPATH DETAIL ADDED				
	0	12/01/24	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	=
	С	07/12/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	=
	В	28/11/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	=
	А	12/09/23	ISSUED FOR APPROVAL	I.HOGAN	M.TROUNCE	M.TROUNCE	







DRAWING TITLE

ARMSTRONG - STAGE 52 TYPICAL DETAILS - 01	
	AS CONSTRUCTED

STATUS

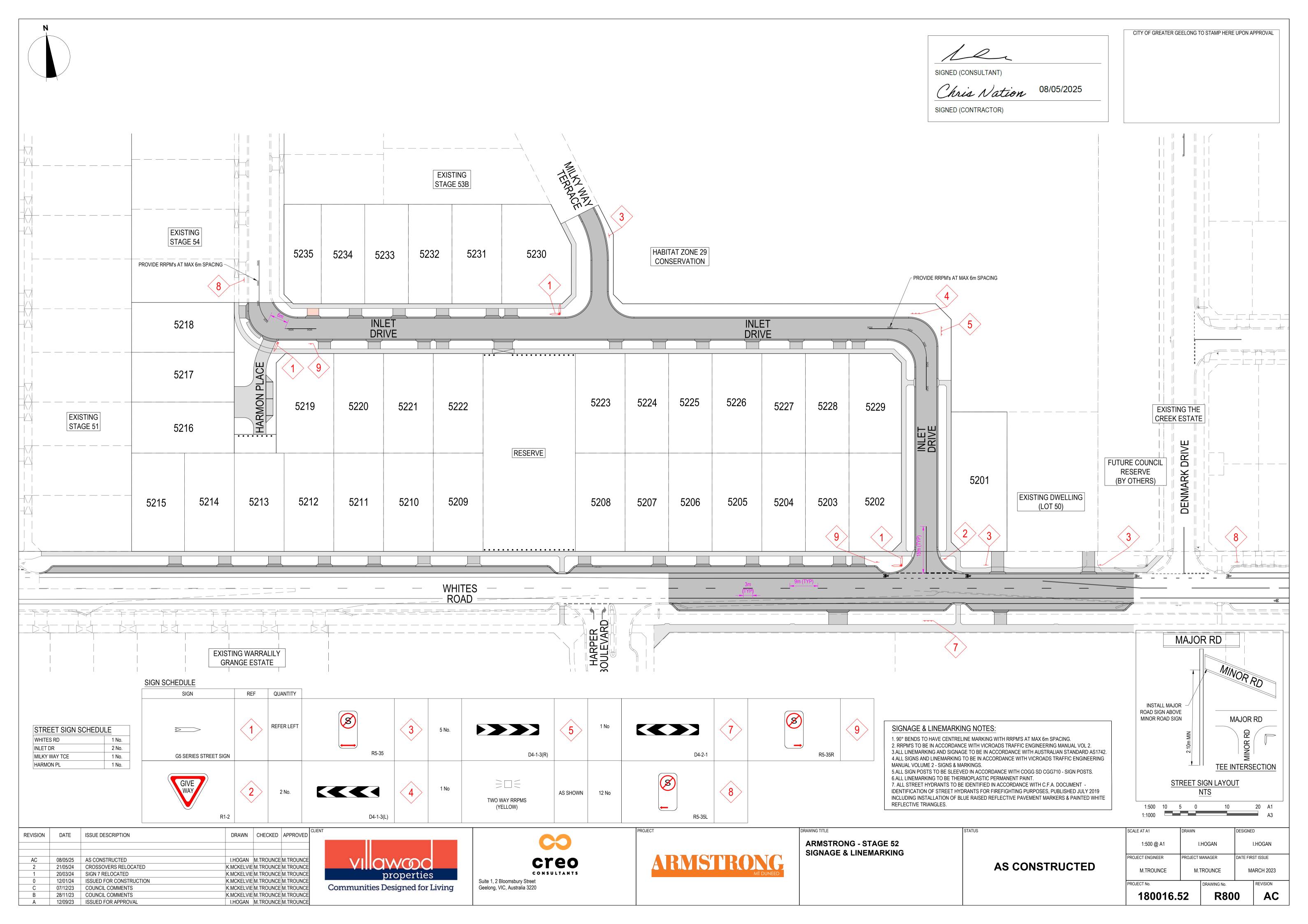
SCALE AT A1	DRAWN		DESIGNED		
AS SHOWN	I.HOGAN PROJECT MANAGER M.TROUNCE		I.HOGAN		
PROJECT ENGINEER			DATE FIRST ISSUE		
M.TROUNCE			MARCH 2023		
PROJECT No.		DRAWING No.		REVISION	

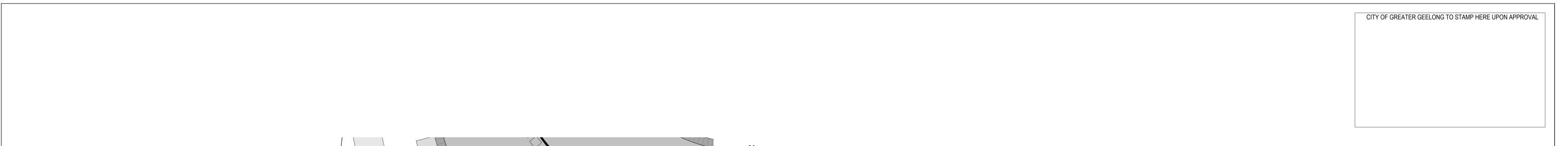
R700

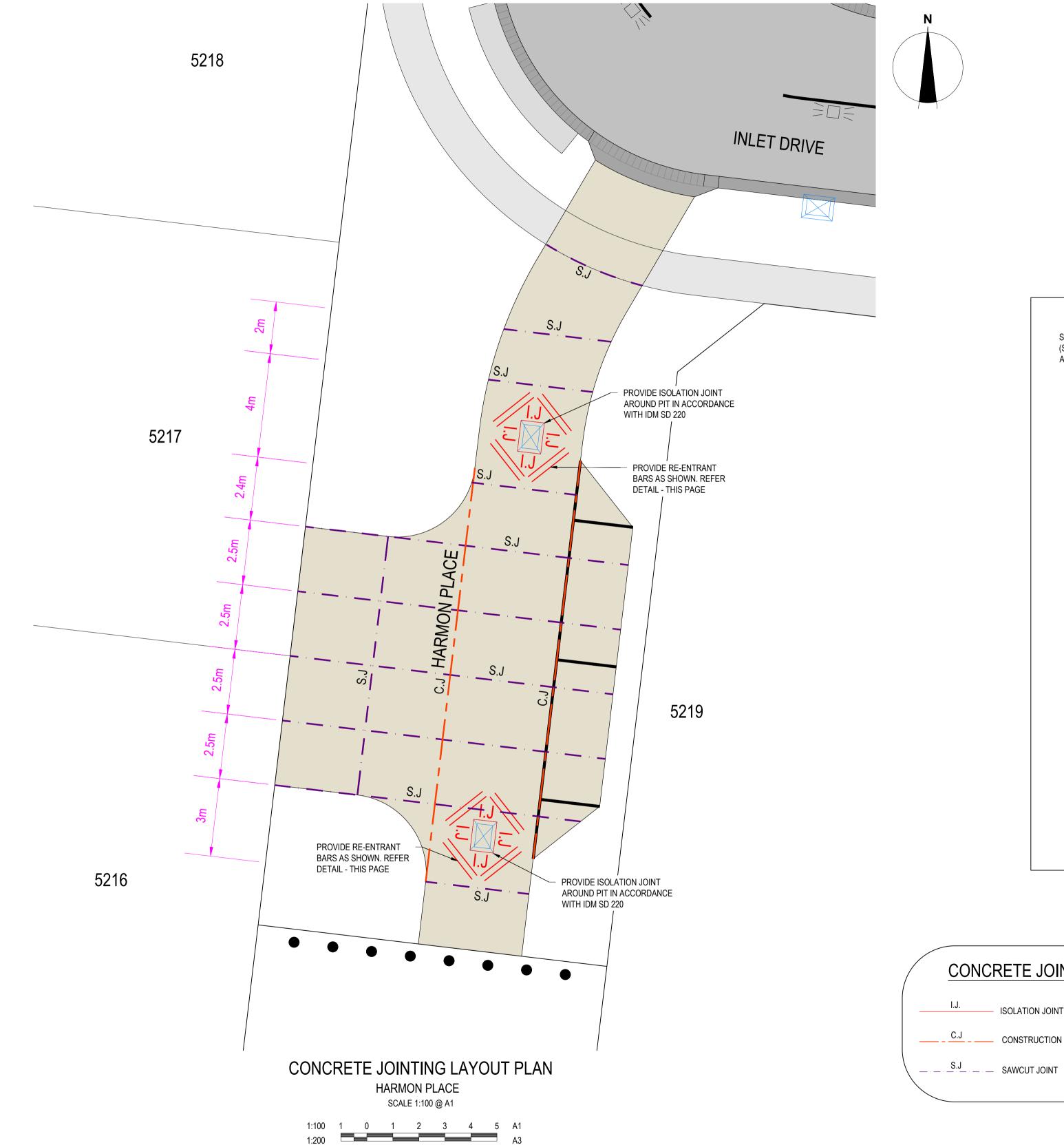
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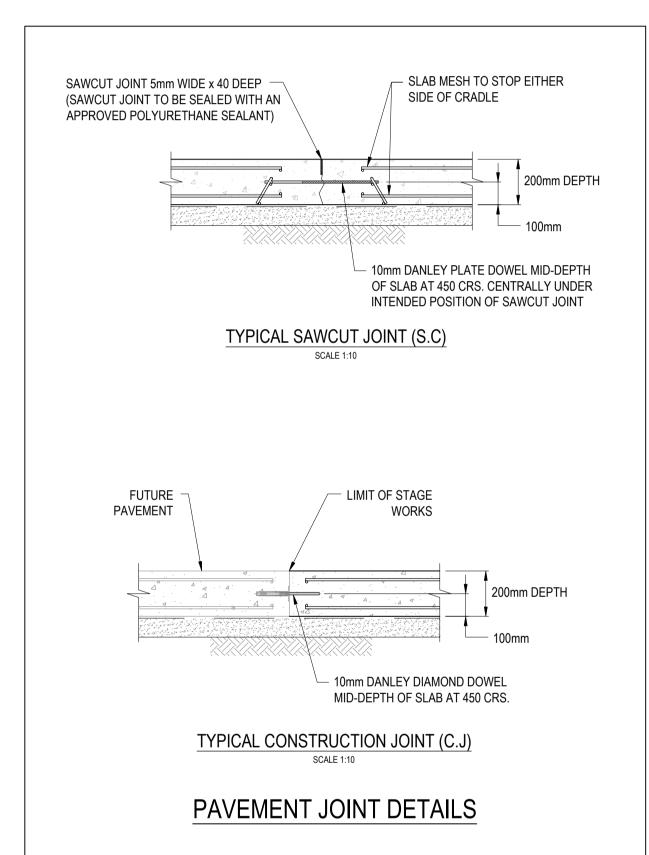
180016.52

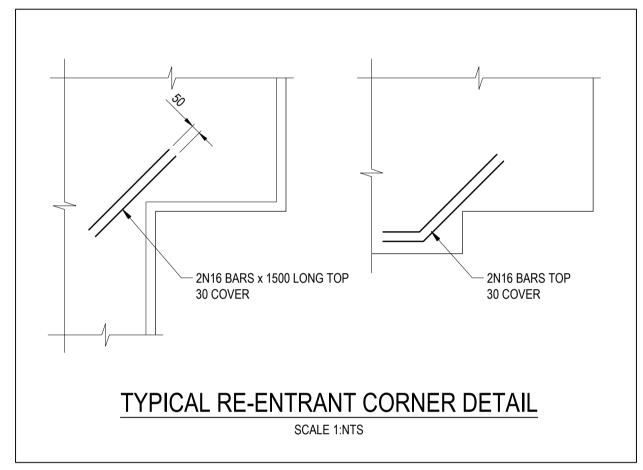
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL











CONCRETE JOINT LEGEND — ISOLATION JOINT _____ _ C.J _ ___ CONSTRUCTION JOINT

SIGNED (CONSULTANT) 08/05/2025 Chris Nation SIGNED (CONTRACTOR)

180016.52

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED	CLIE
]
						1
AC	08/05/25	AS CONSTRUCTED	I.HOGAN	M.TROUNCE	M.TROUNCE	
0	12/01/24	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
С	07/12/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	-
В	28/11/23	COUNCIL COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	:
Α	12/09/23	ISSUED FOR APPROVAL	I.HOGAN	M.TROUNCE	M.TROUNCE	







ARMSTRONG - STAGE 52
CONCRETE JOINTING PLAN

DRAWING TITLE

AS	CONSTRUCTED

STATUS

SCALE AT A1 DRAWN			DESIGNED	ESIGNED	
AS SHOWN	I.	HOGAN	I.HOGAN		
PROJECT ENGINEER	PROJECT MANAGER M.TROUNCE		DATE FIRST ISSUE		
M.TROUNCE			MARCH 2023		
PROJECT No.		DRAWING No.		REVISION	

R900