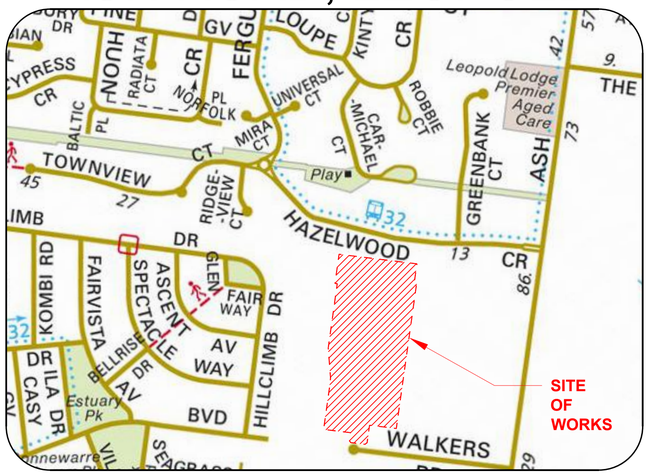
ESTUARY II - STAGE 05

ROAD AND DRAINAGE PLAN

ASH ROAD, LEOPOLD



LOCALITY PLAN
MELWAYS REF: 685 H3
SCALE 1:5000

LEGEND

- EXISTING SHRUBS / TREES
- TREE PROTECTION ZONE
- SHRUBS / TREES TO BE REMOVED
- PROPOSED TREES
- SIGN
- TELCO PILLAR
- TELCO PITS
- ELECTRICITY LIGHT & POLE
- PROPOSED KERB & CHANNEL
- EXISTING KERB & CHANNEL
- PROPOSED DRAIN / PIT / I.S.
- PROPOSED AG DRAIN
- EXISTING DRAIN / PIT
- PROPOSED HOUSE DRAIN / EASEMENT CONNECTION
- FUTURE DRAIN / PIT
- FENCE LINE
- CARRIAGEWAY EASEMENT
- INVERT (DESIGN \ EXISTING)
- EDGE OF SEAL / EDGE OF BITUMEN (DESIGN \ EXISTING)
- TOP OF BANK (DESIGN \ EXISTING)
- BOTTOM OF BANK
- PROPOSED TITLE BOUNDARY & SITE TITLE BOUNDARY
- PROPOSED FUTURE TITLE BOUNDARY
- PREVIOUS STAGE TITLE BOUNDARY
- PROPOSED OR EXISTING EASEMENT
- HOUSE
- PROPOSED GAS & WATER CONDUIT
- OVERLAND 1% AEP STORMWATER FLOWPATH
- UNDERGROUND DRAINAGE CATCHMENT BOUNDARY
- DIMENSION (IN METRES UNLESS STATED OTHERWISE)
- LEADER / ARROW
- EXISTING RETAINING WALL
- DIRECTION OF LOT GRADING
- PROPOSED FLAT TOP SPEED HUMP
- PERMANENT SURVEY MARK
- SURVEY STATION

- PROPOSED SEWER AND MANHOLE
- EXISTING SEWER & MANHOLE
- PROPOSED FUTURE SEWER
- PROPOSED WATER MAIN
- EXISTING WATER MAIN, FIRE PLUG AND VALVE
- PROPOSED FUTURE WATER
- PROPOSED ELECTRICITY MAIN
- EXISTING ELECTRICITY MAIN & PIT
- PROPOSED FUTURE ELECTRICITY
- PROPOSED GAS MAIN
- EXISTING GAS MAIN
- PROPOSED FUTURE GAS
- PROPOSED TELECO MAIN
- EXISTING TELECO CABLE
- PROPOSED FUTURE TELECO
- PROPOSED CATCH DRAIN
- DESIGN SURFACE
- NATURAL SURFACE
- FILL ABOVE 300mm ALLOWING FOR 200mm STRIPPING
- PROPOSED SEALED PAVEMENT
- PROPOSED CRUSHED ROCK
- PROPOSED CONCRETE FOOTPATH / DRIVEWAY
- PROPOSED ROCK BEACHING
- PROPOSED STRUCTURAL FILL
- 150mm FREEBOARD RL
- Q100 RL
- PROPOSED STAGE BOUNDARY
- PROPOSED RESERVE FENCING
- PROPOSED POST AND RAIL FENCE
- ES 101.95 EXISTING/NATURAL SURFACE LEVEL
- FS 101.95 FINISHED SURFACE LEVEL
- B 101.95 PROPOSED BATTER LEVEL

AS-CONSTRUCTED SIGNATURES

05/11/2025
SIGN DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

05/11/2025
SIGN DATE
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

DRAWING LIST

DRAWING No.	TITLE	REV
A4041D-05-RD000	LOCALITY, GENERAL NOTES AND SHEET INDEX PLAN	2
A4041D-05-RD001	EXISTING CONDITIONS	0
A4041D-05-RD100	LOT DIMENSIONS PLAN	0
A4041D-05-RD200	LAYOUT PLAN	2
A4041D-05-RD201	NON-STANDARD DRIVEWAYS PLAN	1
A4041D-05-RD300	SIGNAGE & LINEMARKING PLAN	1
A4041D-05-RD400	PAVEMENT PLAN	1
A4041D-05-RD500	ROAD TYPICAL SECTIONS & DETAILS	0
A4041D-05-RD600	ROAD LONGITUDINAL SECTION-HAMA AVENUE	0
A4041D-05-RD601	ROAD CROSS SECTIONS-HAMA AVENUE - SHEET 1 OF 2	0
A4041D-05-RD602	ROAD CROSS SECTIONS-HAMA AVENUE - SHEET 2 OF 2	0
A4041D-05-RD610	ROAD LONGITUDINAL SECTION-ELDORIS AVENUE	0
A4041D-05-RD611	ROAD CROSS SECTIONS ELDORIS-AVENUE - SHEET 1 OF 2	0
A4041D-05-RD612	ROAD CROSS SECTIONS ELDORIS-AVENUE - SHEET 2 OF 2	0
A4041D-05-RD620	ROAD LONGITUDINAL SECTION-DELMARE DRIVE	0
A4041D-05-RD621	ROAD CROSS SECTIONS-DELMARE DRIVE	0
A4041D-05-RD700	INTERSECTION DETAILS - SHEET 1 OF 2	0
A4041D-05-RD701	INTERSECTION DETAILS - SHEET 2 OF 2	0
A4041D-05-RD800	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 2	0
A4041D-05-RD801	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 2	1
A4041D-05-RD802	PIT SCHEDULE	2
A4041D-05-RD900	RETAINING WALL LAYOUT PLAN	0
A4041D-05-RD901	RETAINING WALL LONGITUDINAL SECTIONS	0
A4041D-05-RD902	RETAINING WALL LONGITUDINAL SECTIONS & DETAILS	1
A4041D-05-RD903	BULK EARTHWORKS	0

TABLE OF OFFSETS FOR SERVICES

STREET NAME	GAS		DW		TELCO		P2 PITS		UG ELEC		LIGHT POLE	BOK	SEWER	
DELMARE DRIVE	2.2m	STH	2.7m 5.7m	STH STH	1.8m	NTH	*1.65m	STH	2.4m	NTH	1.00m BOK	4.20N / 4.20S	1.0m	NTH
HAMA AVENUE	2.2m	WST	2.7m	WST	0.5m	EST	*1.65m	WST	1.0m	EST	1.00m BOK	2.20E / 4.20W	1.0m	WST
ELDORIS AVENUE	2.2m	EST	2.7m	EST	0.5m	WST	*1.65m	EST	1.0m	WST	1.00m BOK	4.20E / 2.20W	1.0m	EST

*DIMENSION IS TO OUTER PIT WALL. REFER TO TYPICAL DETAILS

GENERAL NOTES

PRIOR TO THE COMMENCEMENT OF WORKS

1. THE CONTRACTOR MUST NOTIFY THE RELEVANT AUTHORITY 7 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE RELEVANT WORKS.
2. THE CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS FROM THE MUNICIPALITY & VICROADS FOR ANY WORKS UNDERTAKEN WITHIN AN EXISTING ROAD RESERVE PRIOR TO THE COMMENCEMENT OF WORKS.
3. THE CONSULTANT HAS MADE EVERY REASONABLE ATTEMPT TO LOCATE EXISTING SERVICES AND HAS SHOWN THESE ON THE DRAWINGS. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS AND PROVIDE A WRITTEN REPORT DETAILING THE CONDITION REGARDING ALL EXISTING INFRASTRUCTURE WHICH THEY ARE INTERFACING WITH, OR OTHERWISE HAVING AN IMPACT ON.
4. PRIOR TO COMMENCING WORKS THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SERVICES BY SITE SURVEY (INSPECTION AND CONSULTATION WITH ALL RELEVANT SERVICING AUTHORITIES). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SERVICES, WHETHER SHOWN OR NOT.
5. THE CONTRACTOR MUST CONTACT DIAL BEFORE YOU DIG (CALL 1100), OR VISIT THE DIAL BEFORE YOU DIG WEBSITE PRIOR TO COMMENCING WORKS AND SATISFY THEMSELVES THAT THERE ARE NO SERVICES WITHIN THE VICINITY OF THE WORK AREA.
6. NO WORK IS TO COMMENCE BEFORE THE CONTRACTOR HAS ASCERTAINED WHAT UNDERGROUND SERVICES ARE PRESENT.
7. CONTRACTOR MUST FOLLOW THE "NO GO ZONE" SAFETY PROCEDURES AT ALL TIMES, WHICH ARE AVAILABLE FROM ALL UTILITY AND TELECOMMUNICATIONS COMPANIES, INCLUDING THE OFFICE OF THE CHIEF ELECTRICAL INSPECTOR, THE OFFICE OF GAS SAFETY AND WORKSAFE VICTORIA.
8. IF THESE SAFETY PROCEDURES CANNOT BE COMPLIED WITH THEN NO WORK IS TO BE UNDERTAKEN WITHOUT PERMISSION FROM THE UTILITY COMPANY.
9. THE CONTRACTOR MUST PREPARE A PROJECT MANAGEMENT PLAN (OTHERWISE CALLED A CONSTRUCTION OR SITE MANAGEMENT PLAN) AND HAVE IT APPROVED BY **BOTH** COUNCIL & THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF ANY WORKS. THIS PROJECT MANAGEMENT PLAN IS TO INCORPORATE THE FOLLOWING AT A MINIMUM AND IN ACCORDANCE WITH ANY LEGISLATION REQUIREMENTS:
   a. OCCUPATIONAL HEALTH & SAFETY PROCEDURES
   b. SITE STAFFING INCLUDING CONTACT DETAILS
   c. TRAFFIC MANAGEMENT PLAN
   d. ENVIRONMENTAL MANAGEMENT PLAN
   e. QUALITY ASSURANCE DETAILS (FOR QA CERTIFIED CONTRACTORS)
   f. CONSTRUCTION PROGRAM

CONSTRUCTION SETOUT

10. ALL LEVELS ARE TO A.H.D. AND ARE REFERENCED TO THE T.B.M. INDICATED.
11. COORDINATION OF THIS DESIGN USES MGA 94, CORRECT AS OF THE DATE OF THESE PLANS. FROM 1ST JANUARY 2017, MGA 2020 MAY BE IN STANDARD USE AND WILL DIFFER IN POSITION BY AROUND 1.8 METRES FROM THIS DOCUMENT.
12. NO TBM CAN BE USED WITHOUT FIRST PROVING IT TO BE CORRECT TO A SECOND TBM. NO HORIZONTAL SETOUT CONTROL CAN BE USED WITHOUT FIRST PROVING IT TO BE CORRECT TO A THIRD KNOWN POINT. THE CONSULTING SURVEYOR IS TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY. TITLE PEGS AND T.B.M.'s TO BE RE-ESTABLISHED BY A LICENSED SURVEYOR IF FOUND TO BE MISSING.
13. IF USING GNSS \ GPS TO SETOUT FOR CONSTRUCTION PLEASE NOTE:
   a. GNSS HAS REDUCED VERTICAL PRECISION COMPARED TO TRADITIONAL SURVEY METHODS.
   b. ONLY USE A SINGLE POINT CALIBRATION FOR THE VERTICAL THEN TEST TO AT LEAST 1 OTHER STATED TBM BEFORE PROCEEDING.
   c. IF YOU HAVE ANY QUERIES OR CONCERNS CONTACT THE CONSULTING SURVEYOR.

SITE MANAGEMENT DURING CONSTRUCTION

14. THE SUPERINTENDENT IS RESPONSIBLE FOR THE DESIGN AND MANAGEMENT OF THE CONSTRUCTION WORKS. ANY PROBLEMS ARISING DURING CONSTRUCTION SHALL BE DIRECTED TO THE SUPERINTENDENT.
15. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN MANUAL AND ANY OTHER RELEVANT AUTHORITY SPECIFICATIONS. A COPY OF THE IDM CAN BE FOUND AT WWW.DESIGNMANUAL.COM.AU - IF YOU HAVE ANY ISSUES INTERPRETING THE MANUAL CONTACT THE SUPERINTENDENT.
16. ALL WORKS MUST ABIDE BY THE APPROVED CONSTRUCTION MANAGEMENT PLAN AND MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275). APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.
17. BEFORE COMMENCING ANY EXCAVATION WORKS OF 1.5m DEPTH OR GREATER, THE CONTRACTOR IS REQUIRED TO SUBMIT THE REQUIRED NOTIFICATION TO WORKSAFE VICTORIA. THE NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST 3 DAYS PRIOR TO COMMENCING EXCAVATIONS, A COPY OF THE NOTIFICATION IS TO BE PROVIDED TO THE SUPERINTENDENT. THE CONTRACTOR SHALL COMPLY WITH THE MINES ACT, OCCUPATIONAL HEATH AND SAFETY ACT, WORKSAFE VICTORIA REQUIREMENTS INCLUDING COMPLIANCE CODES.
18. TWENTY-FOUR (24) HOURS NOTIFICATION TO INSPECTORS OF RELEVANT AUTHORITY IS REQUIRED PRIOR TO AN INSPECTION BEING CONDUCTED ON ANY PARTICULAR PORTION OF THE WORKS.
19. THE CONTRACTOR SHALL TAKE THE UTMOST CARE TO PRESERVE EXISTING TREES. NO TREES SHALL BE REMOVED WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT.
20. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO THE ALLOTMENTS MUST BE MADE GOOD.
21. THE CONTRACTOR SHALL TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCIL'S SUPERVISING OFFICER PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNAGE, LIGHTING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF THE ROAD MANAGEMENT ACT.
22. DISPOSAL OF EXCESS SPOIL TRUCK ROUTE AND DISPOSAL LOCATION ARE TO BE APPROVED BY THE MUNICIPAL ENGINEERING DEPARTMENT.
23. AT THE COMPLETION OF WORKS ALL RUBBISH, DEBRIS AND SURPLUS SPOIL IS TO BE REMOVED AND ALL LOTS AND ROAD RESERVE TO BE LEFT IN A TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT & RELEVANT AUTHORITY.

PROTECTION OF VEGETATION

24. NO WORKS ARE TO BE UNDERTAKEN WITHIN THE DRIP ZONE (CANOPY) OF AN EXISTING TREE UNLESS APPROVED BY THE RESPONSIBLE AUTHORITY.
25. MACHINERY IS NOT TO BE DRIVEN OVER OR PARKED WITHIN THE DRIP ZONE OF ANY TREE.

EARTHWORKS

26. ALL EARTHWORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH AS 3798 (2007) - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
27. ALL FILLING WITHIN AREAS OF PROPOSED ROAD PAVEMENT IS TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD.
28. ALL FILLING WITHIN OTHER AREAS IS TO ACHIEVE A MINIMUM COMPACTION OF 95% STANDARD.
29. ANY FILLING IN EXCESS OF 300mm DEPTH IS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION UNLESS DIRECTED OTHERWISE. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL & FILLED USING APPROVED CLAY FILL. TOPSOIL IS TO BE REPLACED NO MORE THAN 150mm THICK TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED AS DETAILED ABOVE IN ACCORDANCE WITH AS3798-1996 ("GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS"). ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED, IT'S CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH VERIFICATION PROVIDED TO THE SUPERVISING ENGINEER. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
30. THE SUPERINTENDENT IS TO BE ADVISED OF ANY FILLING THAT ACHIEVES A DEPTH OF 300mm OR GREATER.
31. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
32. ALL TRENCHES ARE TO ACHIEVE THE SPECIFIED COMPACTION RESULTS WITHOUT EXCEPTION. THE SUPERINTENDENT RESERVES THE RIGHT TO REQUIRE COMPACTION TESTING BY A NATA APPROVED LABORATORY AT THE CONTRACTORS EXPENSE.
33. ALL EXCAVATIONS OF DEPTH 1.5m OR GREATER MUST COMPLY WITH LEGISLATION ENFORCED BY WORKSAFE VICTORIA. A "NOTICE OF INTENTION TO COMMENCE EXCAVATION" MUST BE SUBMITTED TO YOUR LOCAL WORKSAFE OFFICE.
34. ALL LOTS ARE TO ACHIEVE A MINIMUM CROSS FALL OF 1 IN 150 (0.67%) TO A LEGAL POINT OF DISCHARGE (DRAINAGE POINT OR ROAD RESERVE) UNLESS STATED OTHERWISE.
35. RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE SUPERINTENDENT.
36. ALL DISTURBED/EXPOSED AREAS MUST BE HYDROMULCHED AT THE COMPLETION OF WORKS.

ROAD WORKS AND FOOTPATHS

37. ALL KERB & CHANNEL IS B2 (IDM SD100) UNLESS STATED OTHERWISE.
38. ALL ASPHALT ROAD SEALS ARE TO BE 10mm TYPE 'N' UNLESS STATED OTHERWISE.
39. ALL KERB RADII ARE TO LIP OF KERB UNLESS STATED OTHERWISE.
40. ALL FOOTPATHS ARE TO BE CONSTRUCTED AS PER THE IDM SD205 STANDARD DRAWINGS AND IN ACCORDANCE WITH COGG DESIGN NOTE 12.
41. TGSIs WHERE REQUIRED ARE TO BE INSTALLED IN ACCORDANCE WITH COGG DESIGN NOTE 11.
42. ALL NEW INTERSECTIONS ARE TO HAVE STREET SIGNS INSTALLED TO COUNCIL STANDARDS IRRESPECTIVE OF WHETHER THEY ARE DETAILED ON THE ENGINEERING PLANS OR NOT.
43. AT ALL TEMPORARY STAGE BOUNDARY TERMINATIONS TO ROADS THE CONTRACTOR IS TO INSTALL A D4-5 HAZARD SIGN.
44. ALL CONCRETE TO COMPLY WITH CITY OF GREATER GEELONG'S DESIGN NOTE No 12 ISSUED NOVEMBER 2020. CONCRETE FOR FOOTPATHS IS TO HAVE A MINIMUM STRENGTH OF 32MPa (N32) AND KERB AND CHANNEL IS TO HAVE A MINIMUM STRENGTH OF 280KG/M^3 (28MPa), WITH FINISHES AS OUTLINED IN THE DESIGN NOTE
45. TRANSITIONS BETWEEN DIFFERENT KERB TYPES TO BE OVER 3.0m MINIMUM, IF IT CANNOT BE ACHIEVED AT A PRAM CROSSING OR DRIVEWAY CROSSOVER.
46. ROAD PAVEMENT COMPACTION & TESTING REQUIREMENTS ARE AS PER THE IDM.
47. ALL SEWER MANHOLES ARE TO BE POSITIONED AND ROTATED SO THAT THEY ARE PLACED CENTRALLY WITHIN THE FOOTPATH, TO PREVENT CRACKING.

STORMWATER DRAINAGE AND SERVICE CONDUIT NOTES

48. ALL EASEMENT DRAINAGE PIPES ARE 1.0m OFFSET TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.
49. ALL EASEMENT DRAINAGE PITS ARE TO BE ARE 1.0m PAST TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.
50. ALL PROPERTY DRAINAGE CONNECTIONS FROM ROAD RESERVES ARE TO ENTER THE PROPERTY 6.0m O/S SIDE BOUNDARY ON THE LOW SIDE WITH 0.5m COVER UNLESS NOTED OTHERWISE OR COMING DIRECT OUT OF PIT.
51. ALL STORMWATER AND CONDUIT TRENCHES UNDER ROAD PAVEMENT, KERB & CHANNEL AND FOOTPATH OR COMING DIRECT OUT OF PIT, SHALL BE BACKFILLED IN ACCORDANCE WITH THE IDM UNLESS STATED OTHERWISE.
52. REFER TO THE CERTIFIED PLAN OF SUBDIVISION FOR ALL EASEMENT WIDTHS, DO NOT SCALE FROM DRAWING.
53. STORMWATER DRAINS SHALL BE RCP OR HDPE (PER IDM CL16.10) UNLESS OTHERWISE SHOWN.
54. RCP STORMWATER DRAINS SHALL BE CLASS 2 (RRJ) UNLESS NOTED OTHERWISE OR AGREED UPON BY THE SUPERINTENDENT. PIPE JOINTING UP TO AND INCLUDING 600mm TO BE SPIGOT & SOCKET. PIPE DIAMETERS GREATER THAN 600mm SHALL BE FLUSH JOINTED WITH INTERIOR MORTAR JOINTS.
55. ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
56. ALL CONDUIT LOCATIONS ARE TO BE STAMPED IN THE CONCRETE KERBING.
57. CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28 DAYS.
58. ALL GRATES ARE TO BE HOT DIPPED GALVANISED.
59. 100mm DEEP CATCH DRAINS TO BE CONSTRUCTED ALONG ALL EASEMENT DRAINAGE AND DIRECTED TO LEGAL POINT OF DISCHARGE.
60. STEP IRONS ARE NOT TO BE INSTALLED IN ANY DRAINAGE PIT. ACCESS LIDS ARE TO BE LOCATED TO ENABLE REASONABLE ACCESS.
61. ALL HOUSE DRAIN CONNECTIONS TO REINFORCED CONCRETE PIPES ARE TO UTILISE "CONCONECT" OR COUNCIL APPROVED EQUIVALENT PRODUCTS TO AVOID PIPE PROTRUSIONS INTO THE LARGER PIPE.
62. REFER ROAD LAYOUT PLANS FOR WATER & GAS ROAD SERVICE CONDUIT LOCATIONS. INTERSECTION DETAILS PLANS DO NOT SHOW CONDUITS.
63. ELECTRICITY & TELECOMMUNICATIONS CONDUITS SHOWN ON THESE PLANS ARE CONCEPTUAL ONLY. REFER TO ELECTRICITY & TELECOMMUNICATION PLANS FOR ACTUAL ROAD SERVICE CONDUIT LOCATIONS. IF THERE ARE ANY DISCREPANCIES BETWEEN THESE PLANS CONTACT SUPERINTENDENT FOR CLARIFICATION.

CONSTRUCTION HOLD POINTS

64. CONSTRUCTION HOLD POINTS ARE TO BE IN ACCORDANCE WITH THE IDM

EMERGENCY CONTACTS

65. THE PROJECT AREA CONTAINS THE FOLLOWING SERVICES FOR ASSISTANCE IN EMERGENCY CONTACT:

SERVICE	AUTHORITY & CONTACT	TELEPHONE
DRAINAGE	CITY OF GREATER GEELONG	5272 4608
ELECTRICITY	POWERCOR	132 206
GAS	AUSNET GAS	1800 088 208
COMMUNICATIONS	TELSTRA	1800 653 935
SEWER & WATER	BARWON WATER	1300 656 007

66. IN ANY EMERGENCY IF YOU BELIEVE LIFE OR PROPERTY IS THREATENED DO NOT HESITATE TO CONTACT STATE EMERGENCY SERVICES ON TELEPHONE 000.

REFER TO ELECTRICAL AND TELSTRA PLANS FOR SERVICE AND CONDUIT DETAILS

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
2	DRAWING LIST UPDATED	MK	MK	MM	CS	29/11/24
1	DRAWING LIST UPDATED	MK	MK	MM	CS	29/11/24
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK, STAGING RENAME AND DRAWING LIST UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM		19/03/24

RPE:0007966

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE N/A
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

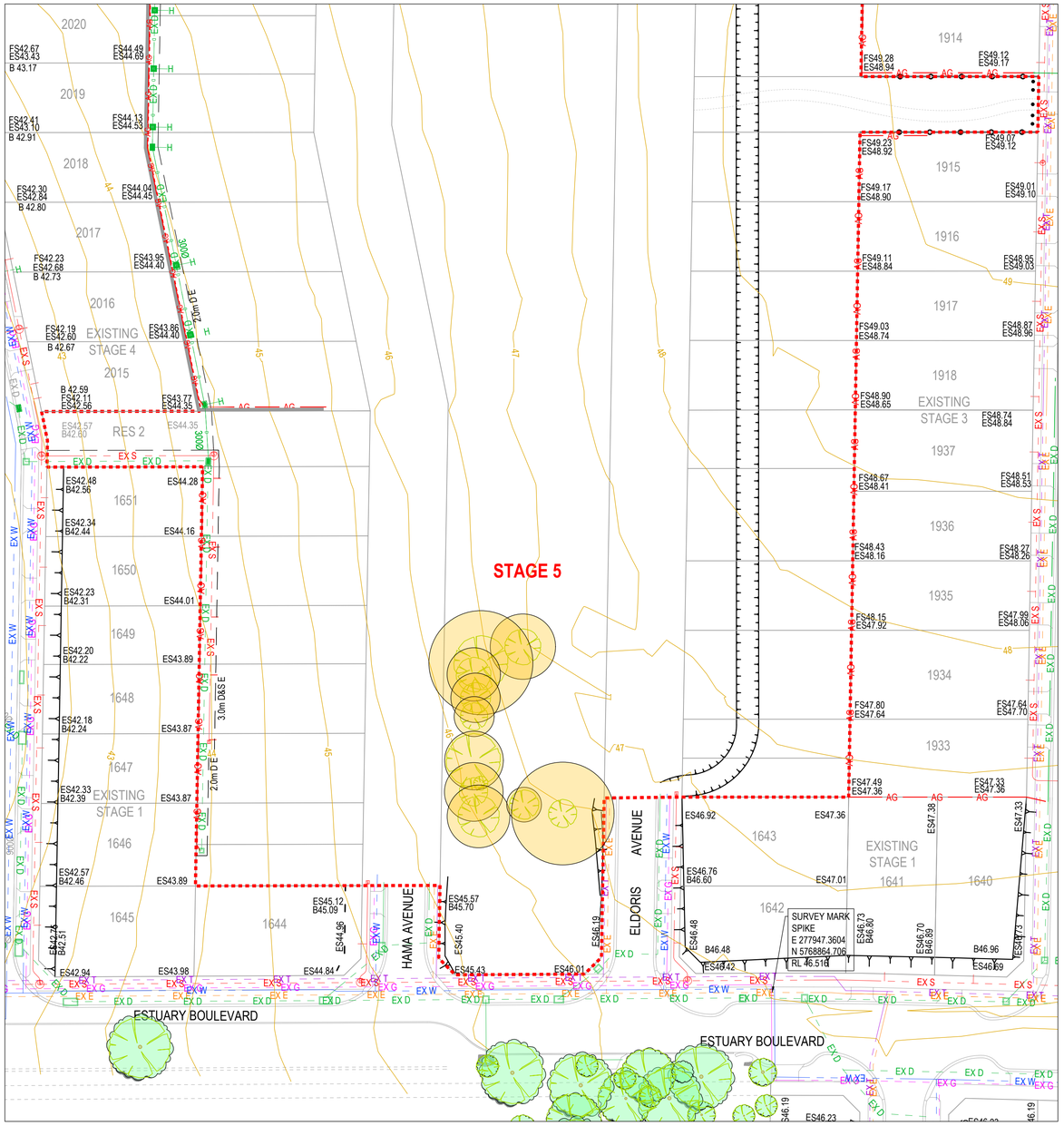
COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
LOCALITY, GENERAL NOTES AND SHEET INDEX PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

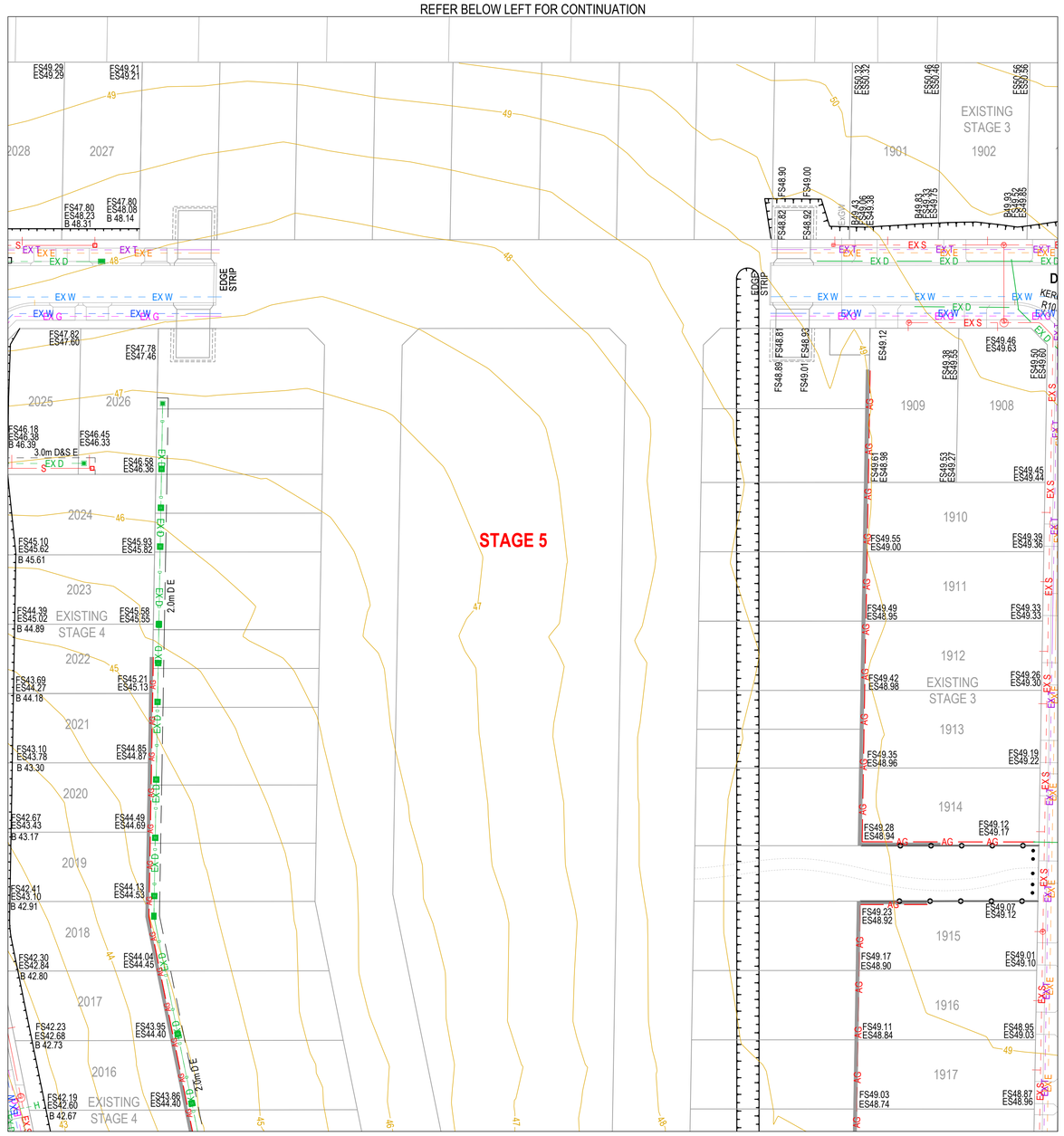
DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD000
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMKGO-12DS01\A4041 - ASH ROAD LEOPOLD C- VILLAWOOD BENDIGO_LEOPOLD_986ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D-04-RD000.DWG

REFER BELOW LEFT FOR CONTINUATION



REFER ABOVE RIGHT FOR CONTINUATION



AS-CONSTRUCTED SIGNATURES

SIGN ..... DATE 05/11/2025
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN Sidney Glanister DATE 05/11/2025
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

SURVEY INFORMATION

TYPE	LOCATION	East	North	Level
PM 113	Moolap PM113, 834 Bellarine Hwy	278 720.123	5 769 908.950	50.178 AHD
PM 114	Moolap PM114, Adj Rail Trail, Christies Rd	278 875.760	5 770 862.357	36.515 AHD
PM 88	Moolap PM 88, 501 Bellarine Hwy	275 647.154	5 770 793.750	12.388 AHD
RIVET	Concrete Path - Ash Road	278 133.433	5 768 724.731	47.016 AHD
RIVET	Concrete Path - Ash Road	278 142.050	5 768 786.098	47.925 AHD
RIVET	Concrete Path - Juniper Avenue	277 971.285	5 768 807.641	49.948 AHD

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

MGA94 ZONE 55

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE 1:500 @ A1, 1:1,000 @ A3
5 0 5 10 15 20 25
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

COMPASS ASSURANCE ISO 9001 QUALITY

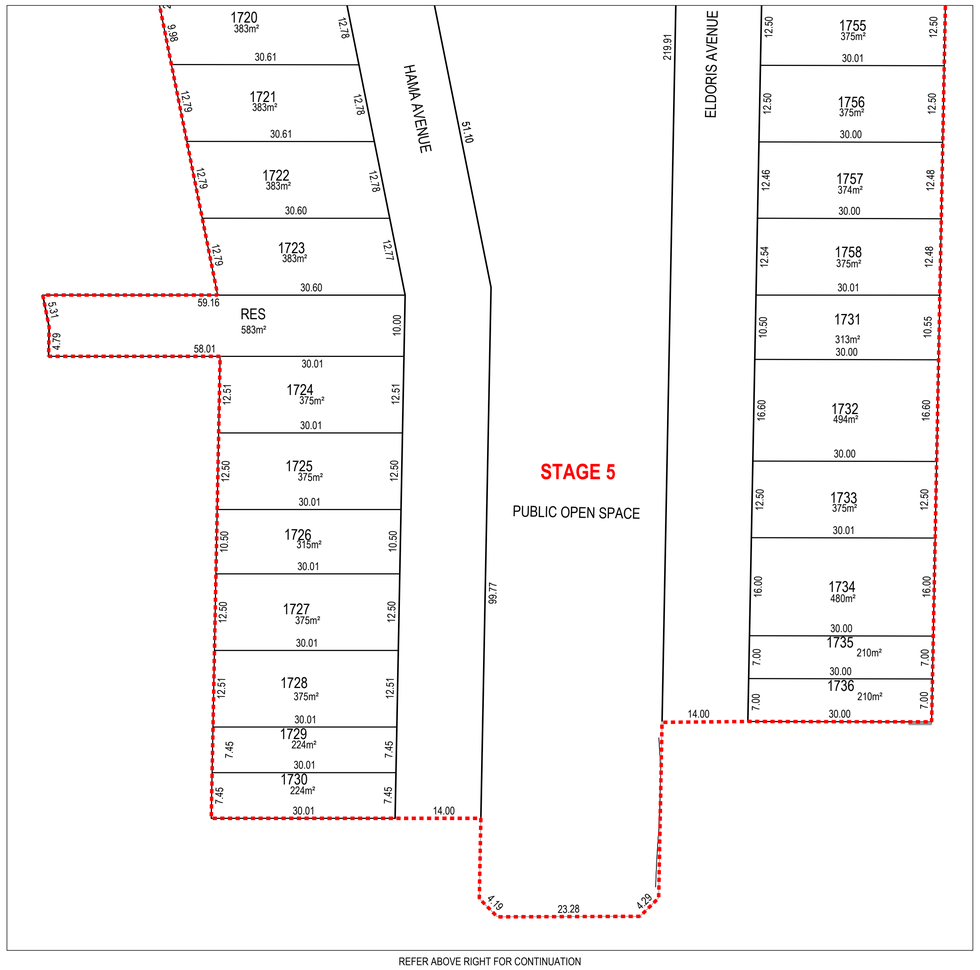
ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
EXISTING CONDITIONS
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD001
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMKBGO-12DS01\A4041 - ASH ROAD LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_986ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD000.DWG

NOTE:

REFER TO PLANS OF SUBDIVISION
PS 848068K, PS 848070Y & PS 848069H
FOR MORE INFORMATION



REFER ABOVE RIGHT FOR CONTINUATION

REFER BELOW LEFT FOR CONTINUATION

AS-CONSTRUCTED SIGNATURES

05/11/2025
SIGN DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

Sidney Glanister 05/11/2025
SIGN DATE
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
A	PRELIMINARY ISSUE	MK	MK	MM	CS	07/10/24

RPE:0007966

MGA94 ZONE 55

Tomkinson
SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE 1:500 @ A1, 1:1,000 @ A3
5 0 5 10 15 20 25
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

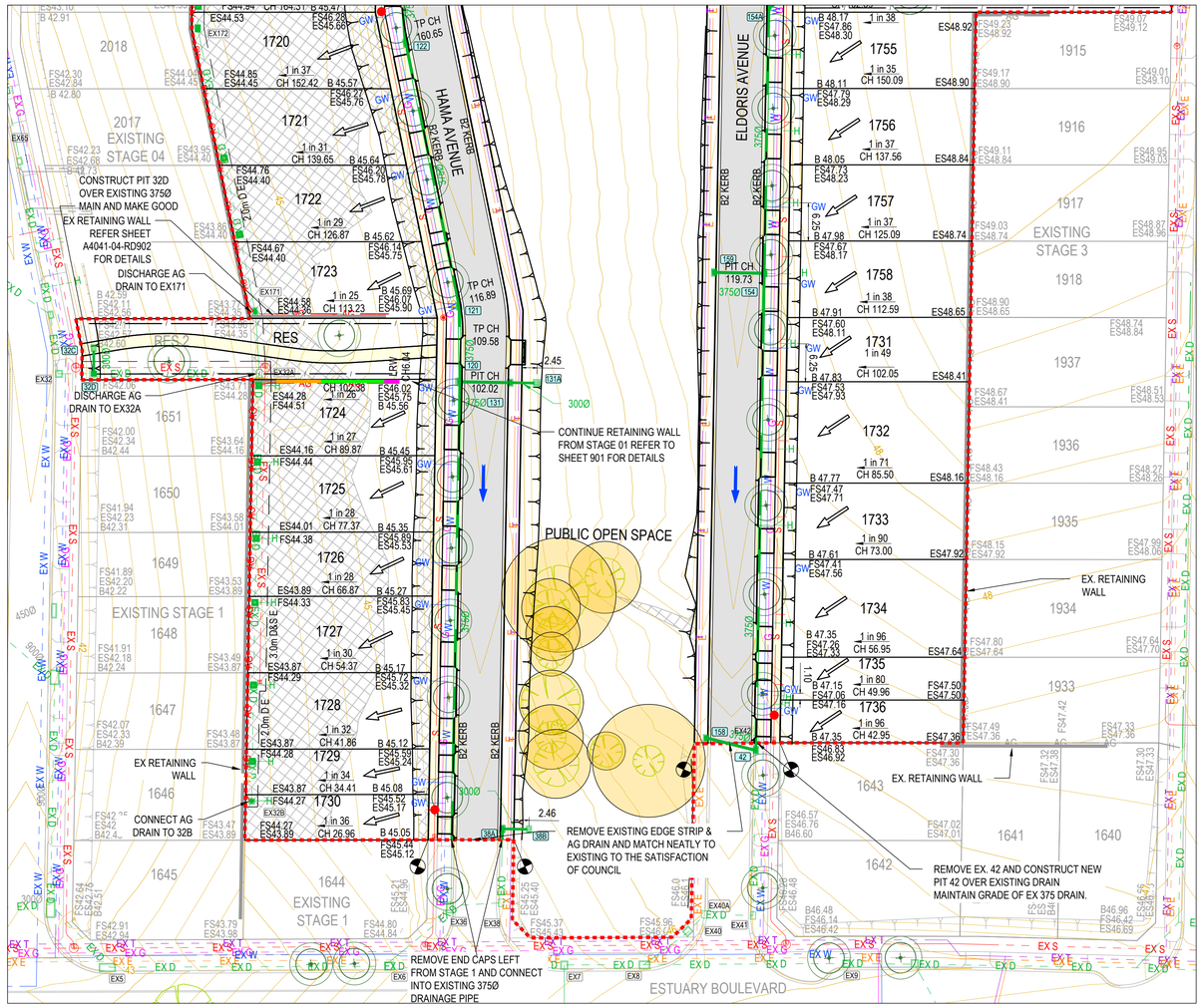
COMPASS ASSURANCE ISO 9001 QUALITY

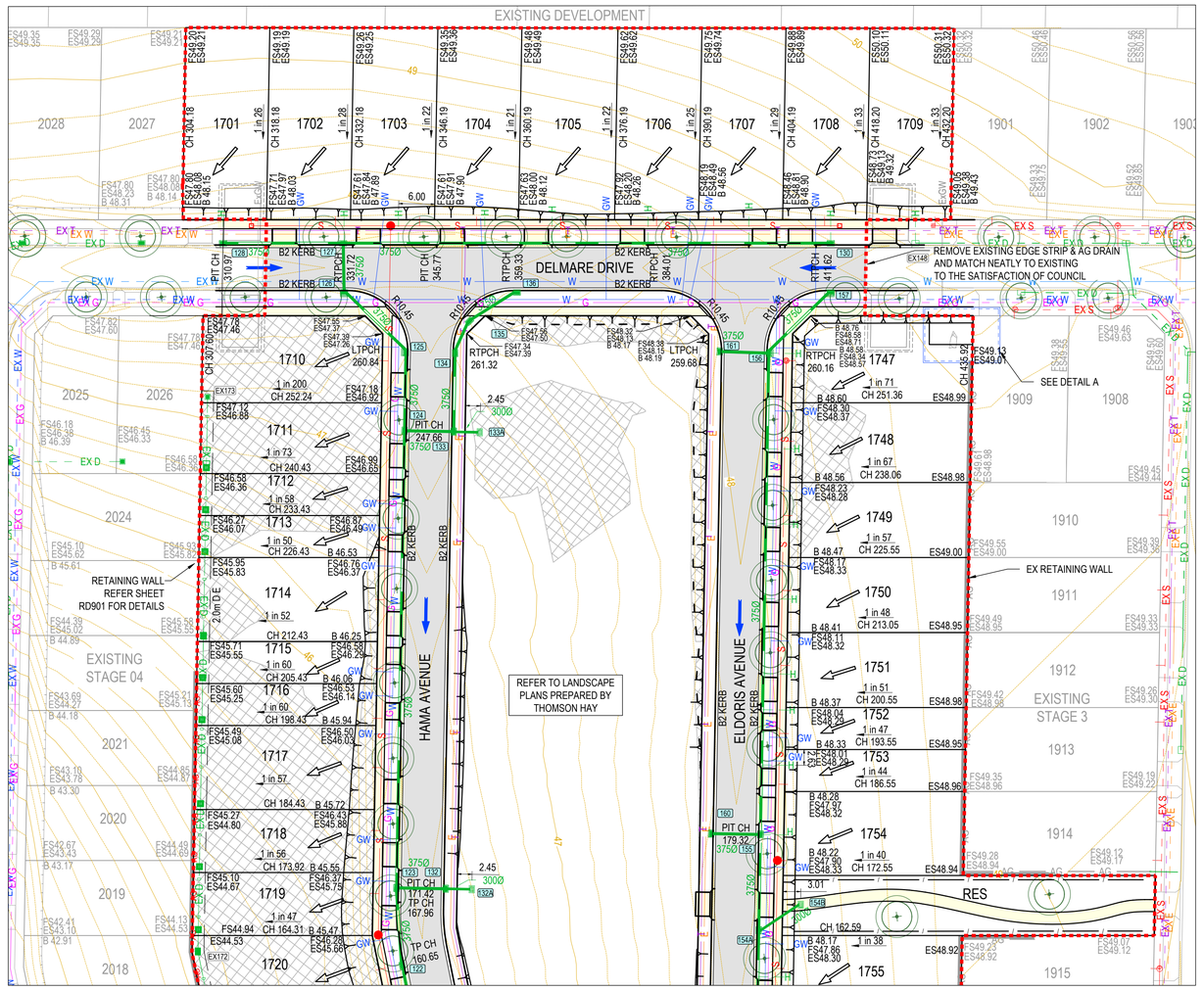
ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
LOT DIMENSION PLAN

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD100
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMK6GO-12DS01\A4041 - ASH ROAD LEOPOLD\5 C- VILLAWOOD BENDIGO, LEOPOLD_98\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD100.DWG





REFER ABOVE RIGHT FOR CONTINUATION

SCALE 1:500 @ A1, 1:1,000 @ A3
5 0 5 10 15 20 25
LENGTHS ARE IN METRES

GENERAL DESIGN DETAIL PLAN NOTES

APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- KERB TYPES:
  - •• FRONTING LOTS = 450mm B2 AS PER IDM SD 100
- ALL KERB RETURNS ARE 8.0m RADIUS TO BoK
- ALL DRIVEWAYS TO LOTS AS PER COGG DESIGN NOTE 4 AND READ IN CONJUNCTION WITH IDM SD420
- CROSSOVERS AT RESERVES TO HAVE NO BULL NOSE TO ENSURE THERE IS NO HINDRANCE OF PEDESTRIANS USING TO CROSS THE ROAD.
- ALL FOOTPATHS CONCRETE & 1.5m WIDE @ 0.05m O/S AS PER IDM SD 205
- PUBLIC OPEN SPACE FENCE TO BE OFFSET 1.0m FROM ROAD RESERVE BOUNDARY AND CONSTRUCTED AS PER CGG709.
- RESERVE BOLLARDS TO BE OFFSET 1.0m FROM ROAD RESERVE BOUNDARY WITH 1.5m SPACINGS.
- REMOVABLE BOLLARDS WITH COUNCIL LOCKS TO BE PROVIDED ADJACENT CROSSOVERS.
- REFER TO STANDARD DRAWING CGG701 FOR TYPICAL BOLLARD DETAIL.
- ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S BL & SIDE BOUNDARIES.
- ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES.
- CONTOUR INTERVAL 0.5m @ 1 : 1000 & 0.05m @ 1 : 200 / 1 : 250(A3) WHERE SHOWN.
- RESERVE BOUNDARIES ADJACENT LOTS TO BE FULLY FENCED. REFER TO LANDSCAPING PLANS FOR DETAILS.
- FOR CORNER LOT LEVELS REFER TO INTERSECTION DETAILS SHEETS RD700 AND RD701

WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

AS-CONSTRUCTED SIGNATURES

SIGN ..... DATE 05/11/2025
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

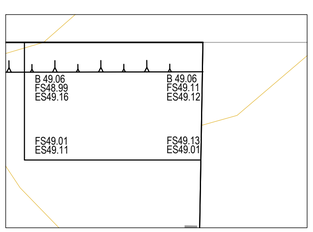
SIGN ..... DATE 05/11/2025
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

FILL > 300mm REQUIRES LEVEL 1 SUPERVISION

NOTE: FILL ALLOWS FOR 200mm STRIPPING

CONTRACTOR TO REMOVE ALL TEMPORARY TURNING AREAS INCLUDING INDUSTRIAL CROSSING, LAYBACKS, EDGE STRIPS AND AG DRAINS. REINSTATE LAYBACKS FROM TURNING AREAS WITH B2 KERB AND NATURE STRIP TO COUNCIL SATISFACTION.

CONTRACTOR TO EXERCISE CAUTION WHILE EXISTING LAYBACKS ARE REMOVED AND DURING EXCAVATION/CONSTRUCTION OF PIT 128. PAVEMENT WEARING COURSE TO BE REINSTATED IF THERE ARE DAMAGES.



DETAIL B SCALE 1:125

SCALE 1:125 @ A1, 1:250 @ A3
1.25 0 1.25 2.5 3.75 5 6.25
LENGTHS ARE IN METRES

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
2	LOT 1736 VC MOVED, SERVICE CONNECTIONS AND P42 AMMENDED	MK	MK	MM	CS	04/04/25
1	PIT BLOCK SIZING UPDATE	MK	MK	MM	CS	29/11/24
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	GENERAL NOTES UPDATED BOLLARDS IN PUBLIC SPACE CHANGED TO FENCE	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

MGA94 ZONE 55

Tomkinson
SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE AS SHOWN
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

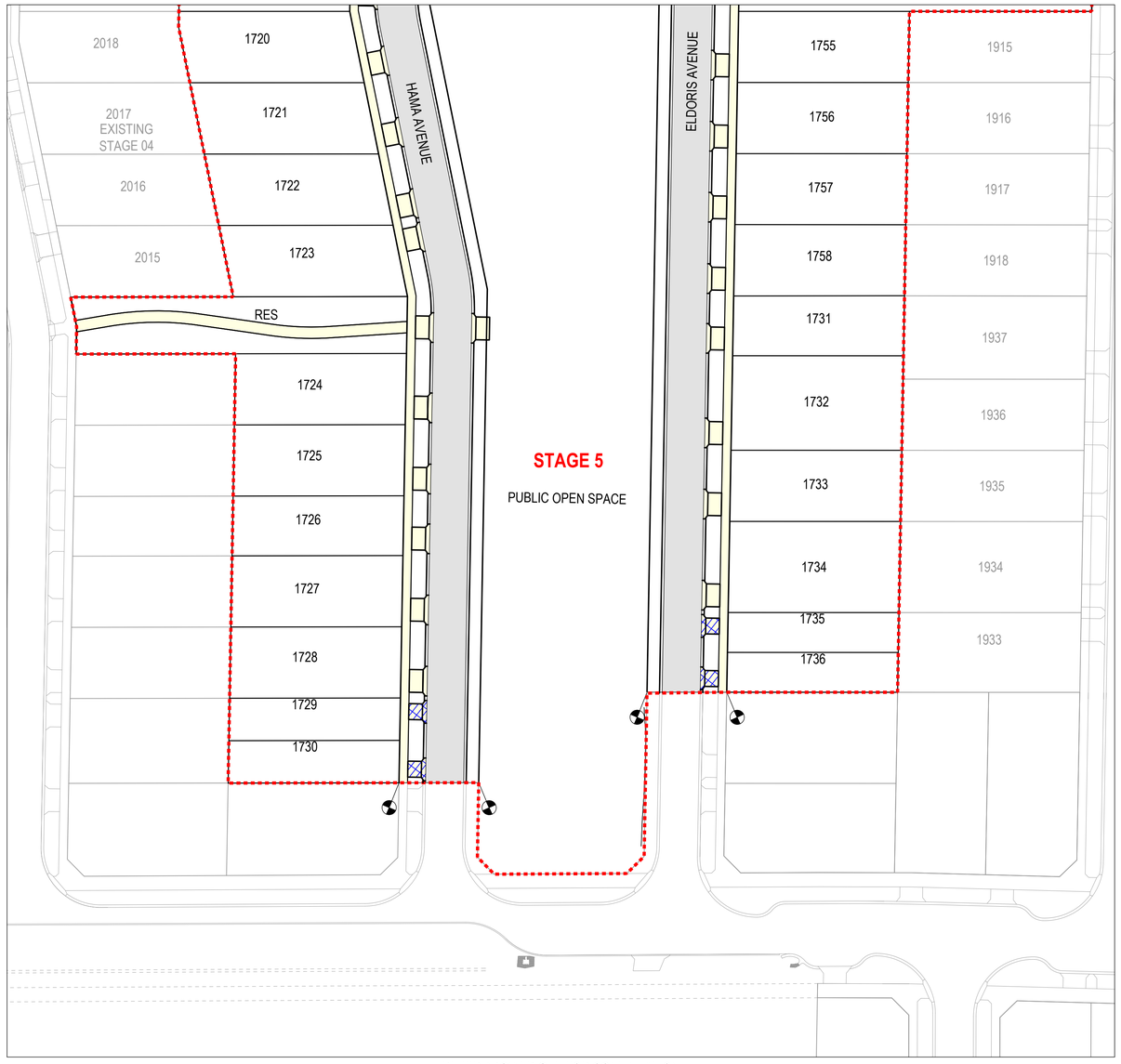
COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE LAYOUT PLAN

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

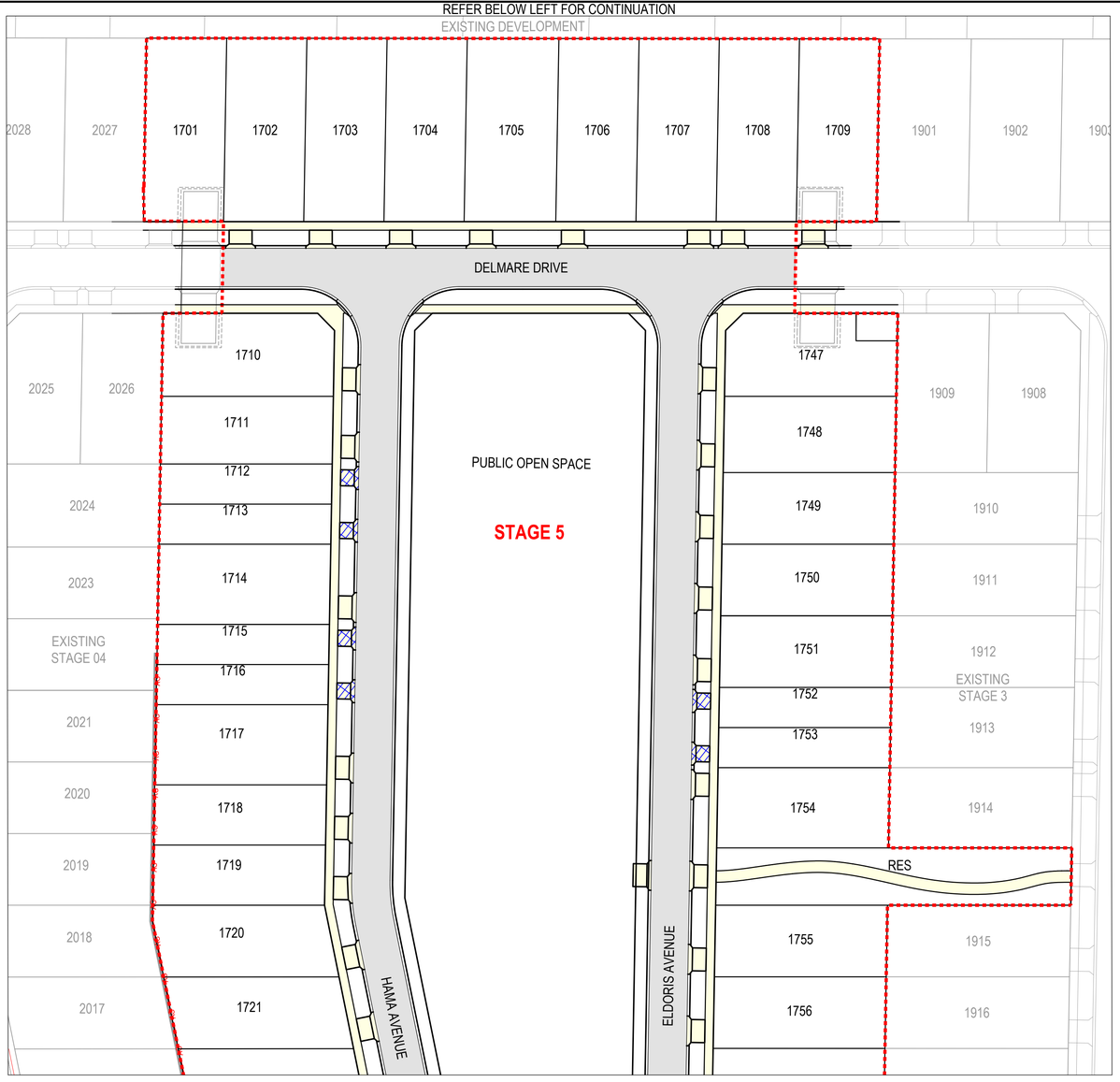
DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD200
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12\DATA\TOMK8G0-12DS01\A4041 - ASH ROAD LEOPOLD\C VILLAWOOD BEND\GO_LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041ST



REFER ABOVE RIGHT FOR CONTINUATION

REFER BELOW LEFT FOR CONTINUATION



LEGEND

	STANDARD VEHICLE CROSSING
	NON -STANDARD VEHICLE CROSSING
	FOOTPATH
	ROAD PAVEMENT
	TEMPORARY TURNING HEAD (CONCRETE)
	TEMPORARY TURNING HEAD (GRAVEL)

NON STANDARD VECHICLE CROSSINGS

LOT NO.	WIDTH (m)	OFFSET FROM NEAREST BOUNDARY(m) + DIRECTION
1712	2.8	1.0 NTH
1713	2.8	1.0 STH
1715	2.8	1.0 NTH
1716	2.8	1.0 STH
1729	2.8	1.0 NTH
1730	2.8	1.0 STH
1735	2.8	1.0 NTH
1736	2.8	1.0 NTH
1752	2.8	1.0 NTH
1753	2.8	1.0 STH

AS-CONSTRUCTED SIGNATURES

SIGN ..... DATE 05/11/2025

TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN *Sidney Glanister* DATE 05/11/2025

DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
1	LOT 1736 VC MOVED TO SOUTHERN SIDE OF LOT	MK	MK	MM	CS	04/04/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
A	PRELIMINARY ISSUE	MK	MK	MM	CS	03/09/24

RPE:0007966

MGA94 ZONE 55

Tomkinson
SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE 1:500 @ A1, 1:1,000 @ A3
5 0 5 10 15 20 25
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

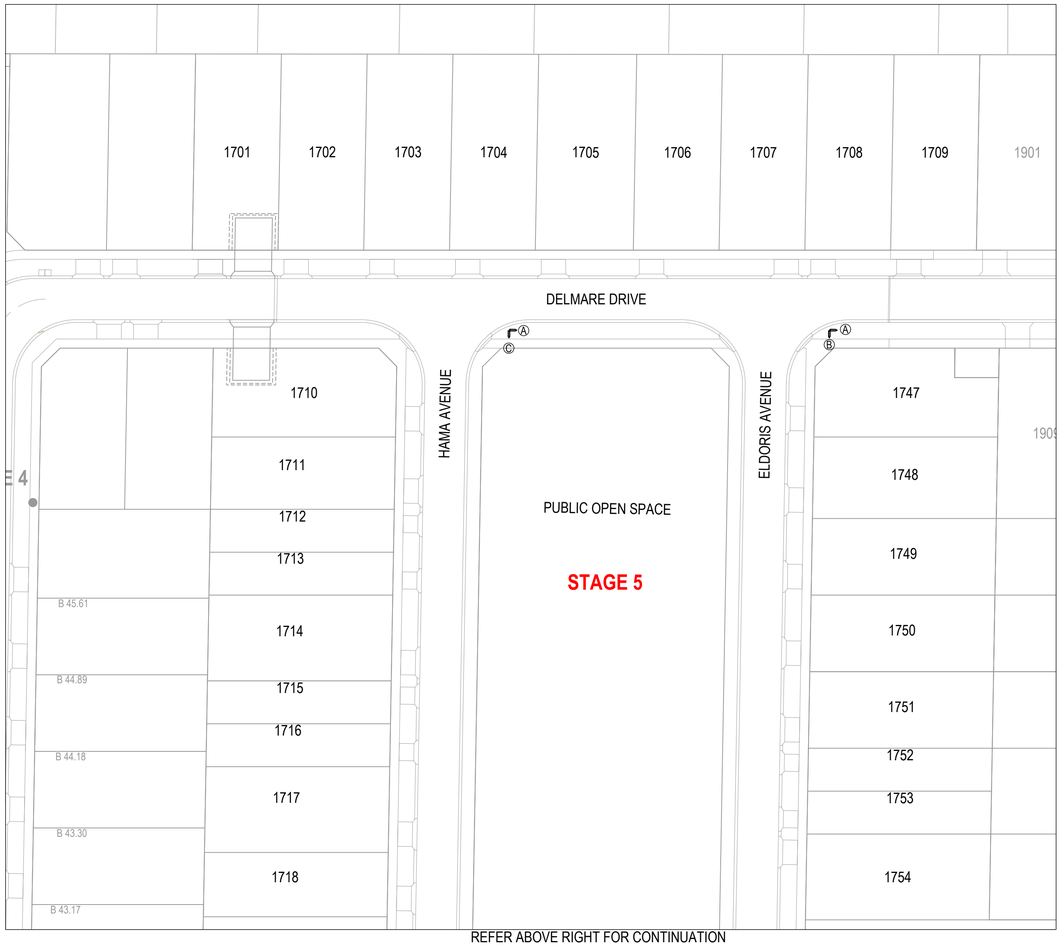
COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
NON-STANDARD DRIVEWAYS PLAN

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD201
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMKBGO-12DS01\A4041 - ASH ROAD LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD200.DWG



REFER ABOVE RIGHT FOR CONTINUATION

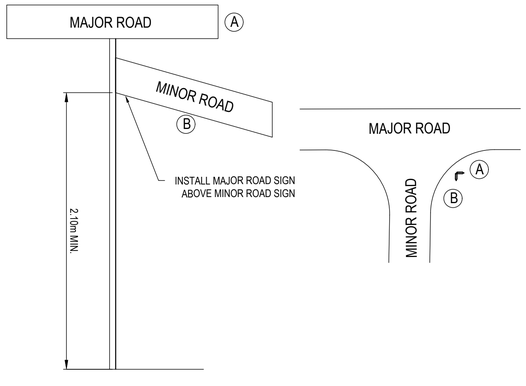
REFER BELOW LEFT FOR CONTINUATION

ROAD SIGN SCHEDULE

TYPE	SIGN NAME	QTY
G5 SERIES	STREET NAME	4

STREET SIGN SCHEDULE

SIGN	SIGN NAME	QTY
A	DELMARE DR	2
B	ELDORIS AVE	1
C	HAMA AVE	1



STREET SIGN LAYOUT

NOT TO SCALE

AS-CONSTRUCTED SIGNATURES

SIGN ..... DATE 05/11/2025

TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN *Sidney Glanister* DATE 05/11/2025

DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

SIGNAGE & LINEMARKING NOTES:

1. 90° BENDS TO HAVE CENTRE LINEMARKING WITH RRPM'S AT MAX 6m SPACING.
2. RRPM'S TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL. 2.
3. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.
4. ALL SIGNS AND LINEMARKING TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2 - SIGNS AND LINEMARKINGS.
5. ALL SIGN POSTS TO BE SLEEVED IN ACCORDANCE WITH COGG SD CGG710 - SIGN POSTS.
6. ALL LINEMARKINGS TO BE THERMOPLASTIC PERMANENT PAINT.
7. ALL HYDRANTS TO BE IDENTIFIED IN ACCORDANCE WITH C.F.A. DOCUMENT - IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES, PUBLISHED JULY 2019 INCLUDING INSTALLATION OF BLUE RAISED REFLECTIVE PAVEMENT MARKERS & PAINTED WHITE REFLECTIVE TRIANGLES.

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
1	LOT 1736 VC MOVED TO SOUTHERN SIDE OF LOT	MK	MK	MM	CS	04/04/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK AND ROAD SIGNAGE AS PER COGG COMMENTS UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

MGA94 ZONE 55

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE 1:500 @ A1, 1:1,000 @ A3
5 0 5 10 15 20 25
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING PLAN

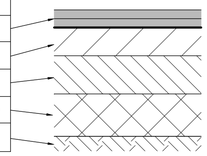
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD300
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMK8GO-12DS01\A4041 - ASH ROAD LEOPOLD\C VILLAWOOD BENDIGO, LEOPOLD_9861\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD300.DWG

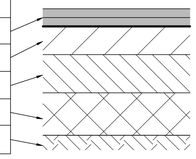
HAMA & ELDORIS STREET

490mm DEPTH PAVEMENT		
PAVEMENT LAYER	**LAYER THICKNESS (mm)**	**MATERIAL**
1. WEARING COURSE	40	SIZE 10 TYPE N BITUMINOUS SURFACING
2. UPPER BASE COURSE	150	20mm NOM. SIZE CL 2 FCR COMPACT TO 98% MMDD
3. LOWER BASE COURSE	150	20mm NOM. SIZE CL 3 FCR COMPACT TO 98% MMDD
4. SUBBASE COURSE	150	20mm CL 4 FCR SUBGRADE IMPROVEMENT LAYER COMPACT TO 98% SMDD
5. SUBGRADE		PREPARED SUBGRADE TO 98% SMDD

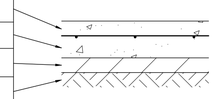


DELMARE DRIVE

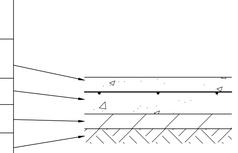
560mm DEPTH PAVEMENT		
PAVEMENT LAYER	**LAYER THICKNESS (mm)**	**MATERIAL**
1. WEARING COURSE	40	SIZE 10 TYPE N BITUMINOUS SURFACING
2. UPPER BASE COURSE	150	20mm NOM. SIZE CL 2 FCR COMPACT TO 98% MMDD
3. LOWER BASE COURSE	220	20mm NOM. SIZE CL 3 FCR COMPACT TO 98% MMDD
4. SUBBASE COURSE	150	20mm CL 4 FCR SUBGRADE IMPROVEMENT LAYER COMPACT TO 98% SMDD
5. SUBGRADE		PREPARED SUBGRADE TO 98% SMDD

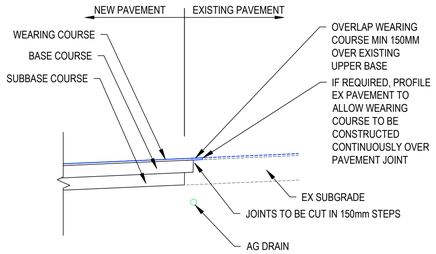


CONCRETE FOOTPATH, SHARED PATH PAVEMENT AND DRIVEWAY DETAILS (IDM SD 205) & COGG DESIGN NOTE 12		
PAVEMENT LAYER	**LAYER THICKNESS (mm)**	**MATERIAL**
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 32MPa WITH SL72 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	100	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE 6 BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT



INDUSTRIAL VEHICLE CROSSING (IDM SD 250) & COGG DESIGN NOTE 12		
PAVEMENT LAYER	**LAYER THICKNESS (mm)**	**MATERIAL**
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 32MPa WITH SL82 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	100	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C ADJACENT)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE 6 BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT





PAVEMENT CONNECTION - DETAIL

NOT TO SCALE

PAVEMENT NOTES:

A. ROAD PAVEMENT COMPOSITIONS TO BE AS PER GEOTECHNICAL REPORT "ESTUARY II ESTATE, 6981/22/410 ASH ROAD LEOPOLD" PREPARED BY GEOTEST CIVIL SERVICES
B. PAVEMENT BASE COURSES ARE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% MODIFIED WITH MOISTURE CONTENT WITHIN ±3% OF MODIFIED OPTIMUM MOISTURE CONTENT (MOMC).
C. PAVEMENT SUBBASE COURSES ARE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% MODIFIED WITH MOISTURE CONTENT WITHIN ±3% OF MODIFIED OPTIMUM MOISTURE CONTENT (MOMC).
D. THE CAPPING LAYER SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% STANDARD WITH MOISTURE CONTENT WITHIN ±3% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC).
E. PAVEMENT LAYERS SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm THICKNESS.
F. SUBGRADE PREPARATION AND ENGINEERED FILL CONSTRUCTION (PAVEMENTS) TO BE IN ACCORDANCE WITH RELEVANT STANDARDS.
G. WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCL' ROCK & CLAY) MUST BE REMOVED. THE SUBGRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
H. PRIOR TO PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENT, APPROVAL OF THE MATERIAL TO BE USED MUST BE OBTAINED FROM COUNCIL.
I. ALL CONCRETE WORKS TO ABIDE WITH CITY OF GREATER GEELONG'S DESIGN NOTE No 12 ISSUED 2020.

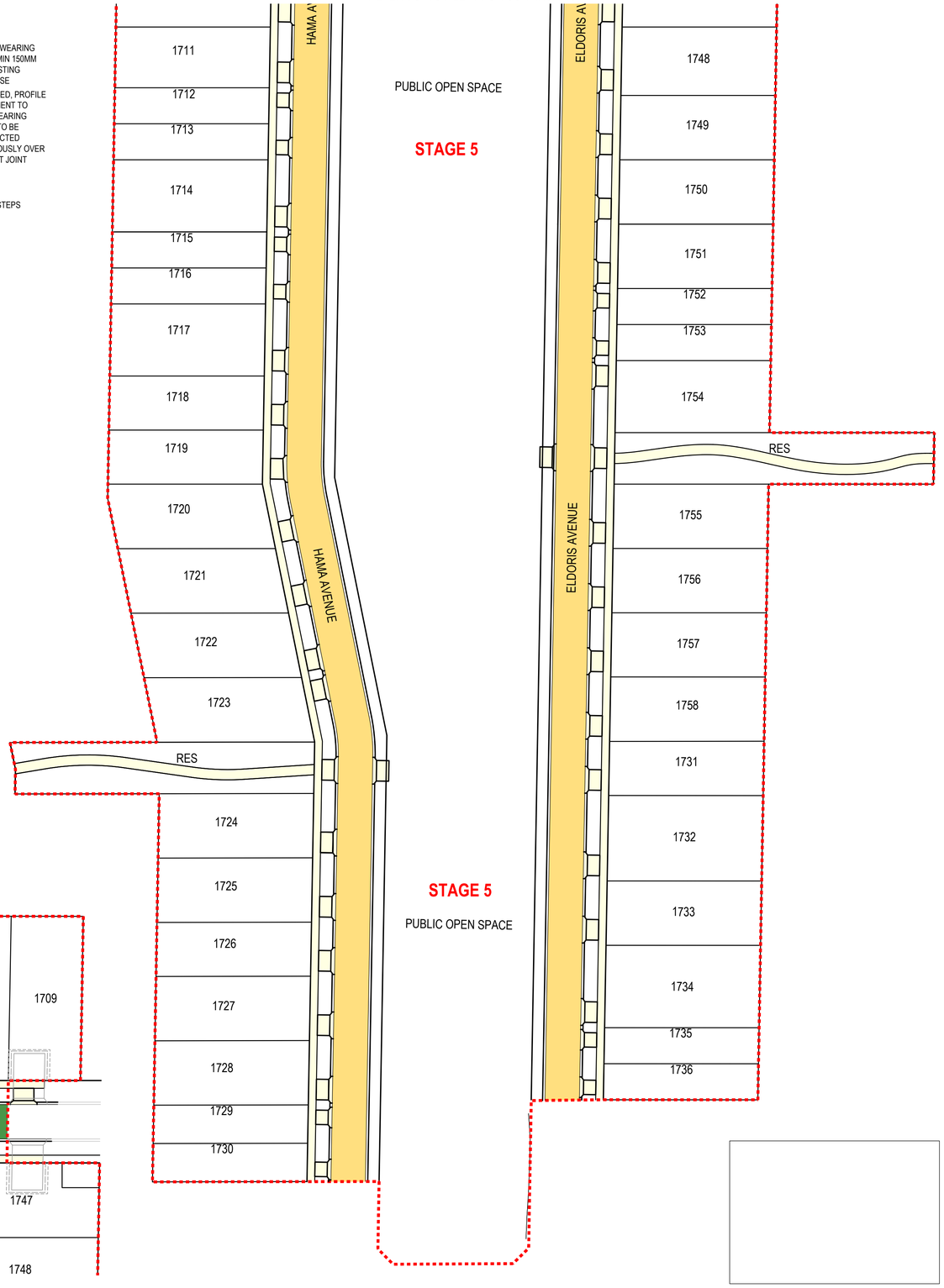
REFER TO GEOTECHNICAL INVESTIGATION REPORT BY GEOTEST CIVIL SERVICES DATED 7 JULY 2022 FOR ESTUARY BLVD, WALKERS ROAD, ASH ROAD, DELMARE / RHEA DRIVE, HAMA / ELDORIS AVE AND ZALE / SEDNA STREET.

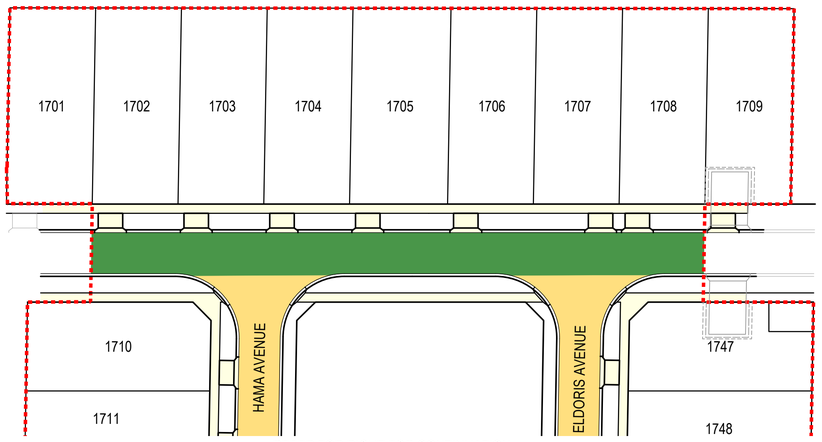
AS-CONSTRUCTED SIGNATURES

SIGN ..... DATE 05/11/2025
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN Sidney Glaister DATE 05/11/2025
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REFER BOTTOM LEFT FOR CONTINUATION





REFER TOP RIGHT FOR CONTINUATION

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
1	LOT 1736 VC MOVED TO SOUTHERN SIDE OF LOT	MK	MK	MM	CS	04/04/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

MGA94 ZONE 55

Tomkinson
SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE 1:500 @ A1, 1:1,000 @ A3
5 0 5 10 15 20 25
LENGTHS ARE IN METRES

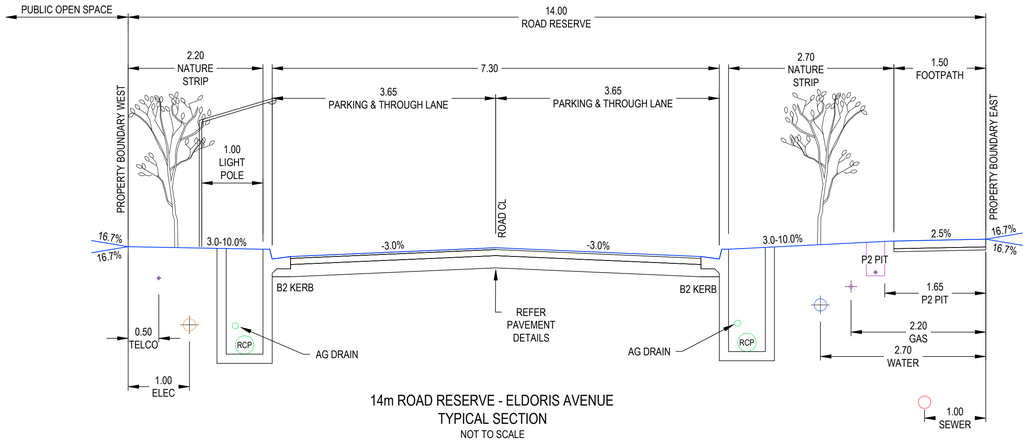
BEFORE YOU DIG www.byda.com.au

COMPASS ASSURANCE ISO 9001 QUALITY

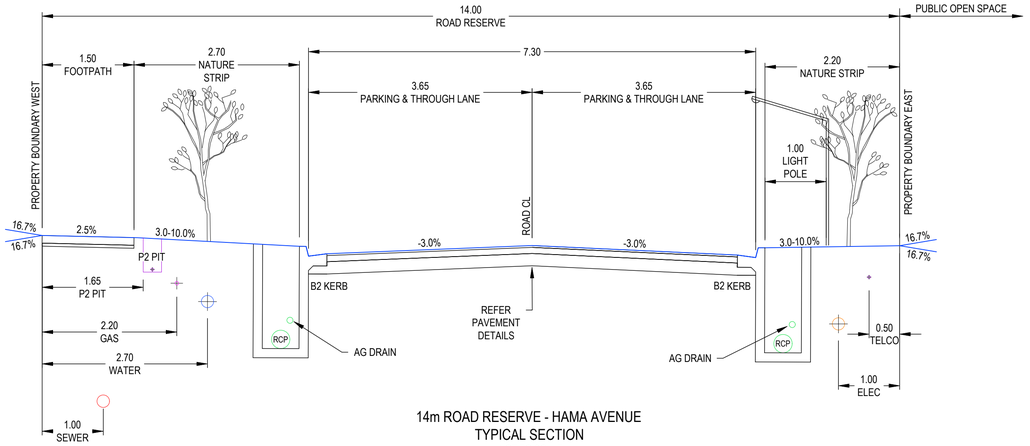
ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
PAVEMENT PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD400
REV: AC2

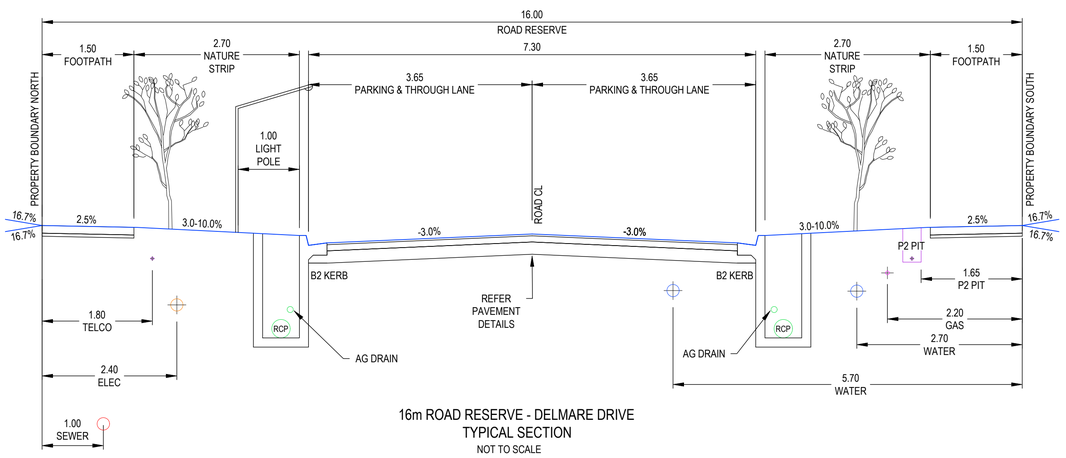
NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMK\BGO-12DS0144041 - ASH ROAD LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_986ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD400.DWG



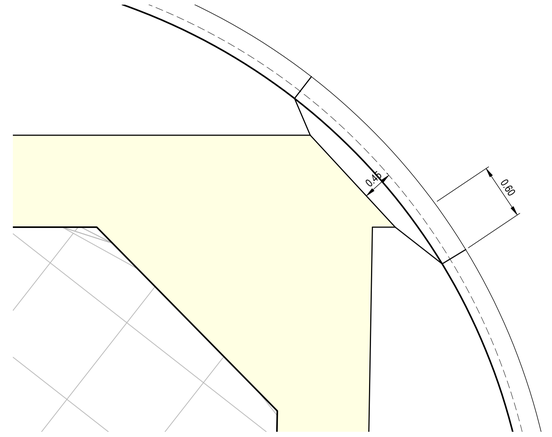
14m ROAD RESERVE - ELDORIS AVENUE
TYPICAL SECTION
NOT TO SCALE



14m ROAD RESERVE - HAMA AVENUE
TYPICAL SECTION
NOT TO SCALE

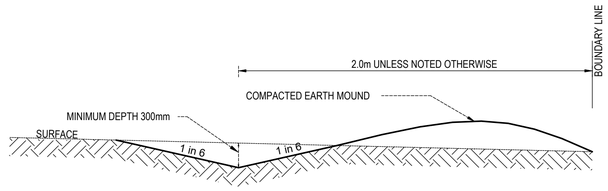


16m ROAD RESERVE - DELMARE DRIVE
TYPICAL SECTION
NOT TO SCALE

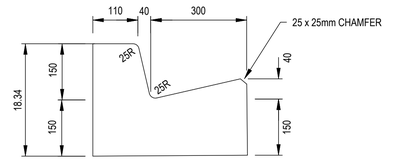


TYPICAL - PRAM CROSSING DETAIL

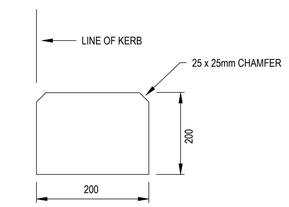
SCALE 1:50 @ A1, 1:100 @ A3
0.5 0 0.5 1.0 1.5 2.0 2.5
LENGTHS ARE IN METRES



CUT-OFF DRAIN (Typical)
NOT TO SCALE



B2 KERB DETAIL (IDM SD100)
NOT TO SCALE



EDGE STRIP DETAIL (IDM SD100)
NOT TO SCALE

AS-CONSTRUCTED SIGNATURES

05/11/2025
SIGN DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

Sidney Glanister 05/11/2025
SIGN DATE
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

MGA94 ZONE 55

Tomkinson
SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE AS SHOWN
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

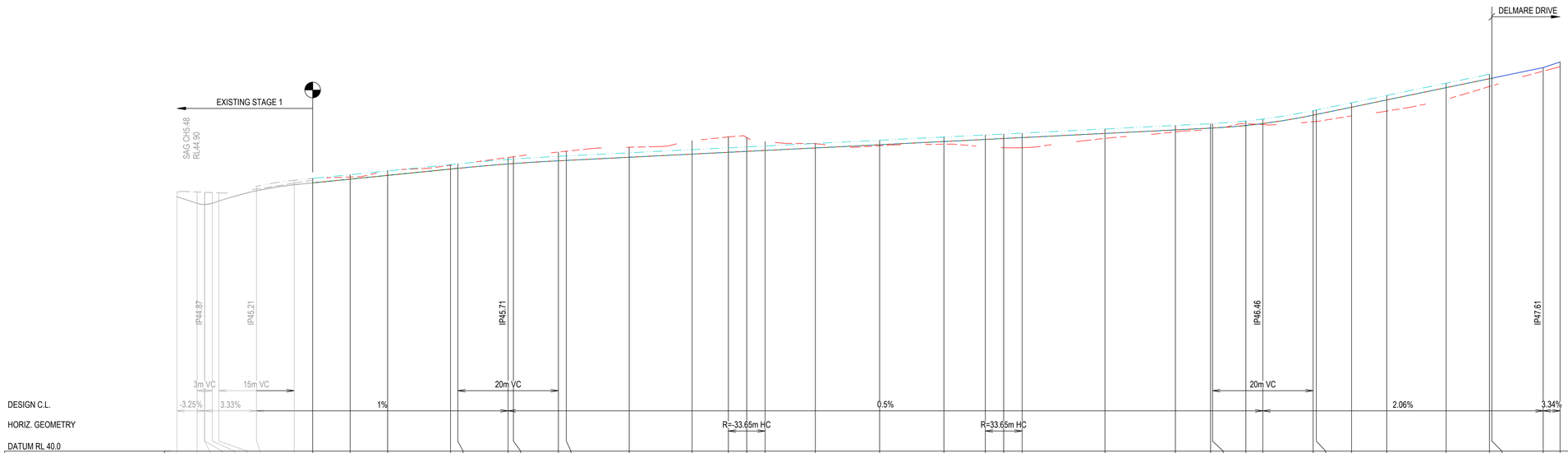
COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD TYPICAL SECTIONS & DETAILS

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

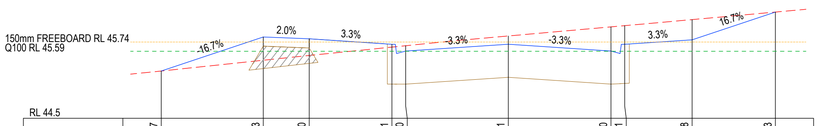
DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD500
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12\D\DATA\TOMK\BGO-12\DS01\A4041 - ASH ROAD LEOPOLD\C-VILLAWOOD BENDIGO, LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD500.DWG


EXISTING STAGE 1
DELMARE DRIVE
SAG CH5.48
RL44.90
IP44.87
IP45.21
IP45.71
IP46.46
IP47.61
3m VC
15m VC
20m VC
20m VC
DESIGN C.L.
-3.25%
3.33%
1%
0.5%
2.06%
3.34%
HORIZ. GEOMETRY
R=-33.65m HC
R=33.65m HC
DATUM RL 40.0

| | | |

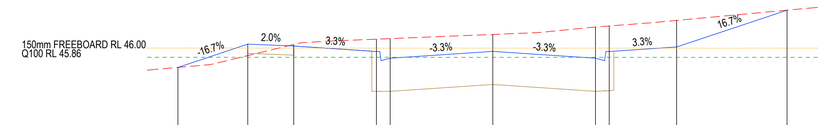
STRUCTURAL FILL AS PER NOTE 29 ON RD000



RL 44.5

DESIGN SURFACE	45.27	45.83	45.80	45.71	45.60	45.71	45.60	45.71	45.78	46.23
CUT\FILL	0.00	-0.38	-0.27	-0.05	0.09	0.13	0.39	0.30	0.33	0.00
EXIST SURFACE	45.27	45.45	45.53	45.66	45.69	45.84	45.99	46.01	46.11	46.23
OFFSETS	-11.33	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	8.72

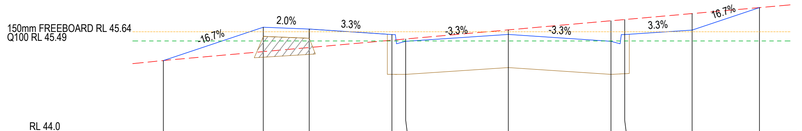
CH 66.87



RL 44.5

DESIGN SURFACE	45.69	46.07	46.04	45.95	45.84	45.95	45.84	45.95	46.02	46.62
CUT\FILL	0.00	-0.19	0.02	0.20	0.32	0.28	0.51	0.42	0.43	0.00
EXIST SURFACE	45.69	45.88	46.06	46.15	46.16	46.23	46.35	46.37	46.46	46.62
OFFSETS	-10.28	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	9.60

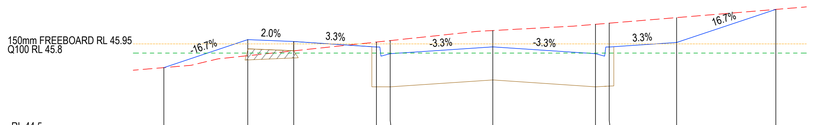
CH 113.23



RL 44.0

DESIGN SURFACE	45.17	45.72	45.69	45.60	45.49	45.60	45.49	45.60	45.67	46.04
CUT\FILL	0.00	-0.40	-0.30	-0.09	0.04	0.07	0.33	0.24	0.27	0.00
EXIST SURFACE	45.17	45.32	45.39	45.51	45.53	45.67	45.82	45.84	45.94	46.04
OFFSETS	-11.26	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	8.20

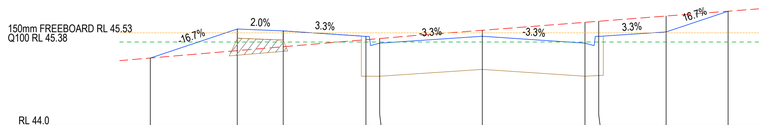
CH 54.37



RL 44.5

DESIGN SURFACE	45.56	46.02	45.99	45.90	45.79	45.90	45.79	45.90	45.97	46.51
CUT\FILL	0.00	-0.26	-0.15	0.08	0.21	0.27	0.48	0.39	0.41	0.00
EXIST SURFACE	45.56	45.75	45.83	45.98	46.00	46.16	46.27	46.28	46.37	46.51
OFFSETS	-10.74	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	9.24

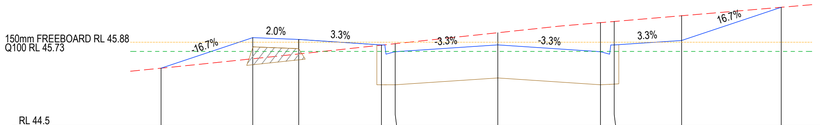
CH 102.38



RL 44.0

DESIGN SURFACE	45.12	45.59	45.56	45.47	45.36	45.47	45.36	45.47	45.55	45.88
CUT\FILL	0.00	-0.35	-0.26	-0.05	0.07	0.10	0.34	0.25	0.26	0.00
EXIST SURFACE	45.12	45.24	45.30	45.42	45.44	45.57	45.70	45.72	45.81	45.88
OFFSETS	-10.84	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	8.02

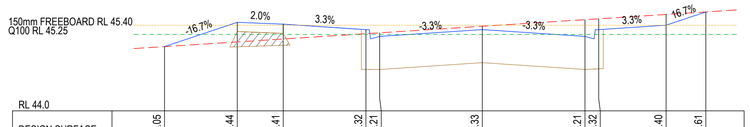
CH 41.86



RL 44.5

DESIGN SURFACE	45.45	45.95	45.92	45.83	45.72	45.83	45.72	45.83	45.91	46.45
CUT\FILL	0.00	-0.34	-0.24	-0.00	0.13	0.20	0.47	0.38	0.40	0.00
EXIST SURFACE	45.45	45.61	45.69	45.83	45.85	46.03	46.20	46.22	46.31	46.45
OFFSETS	-10.99	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	9.25

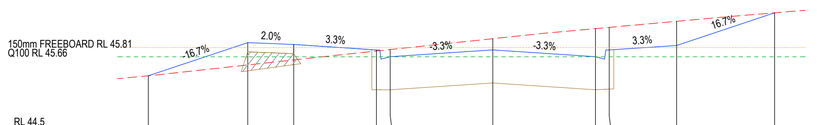
CH 89.87



RL 44.0

DESIGN SURFACE	45.05	45.44	45.41	45.32	45.21	45.33	45.21	45.32	45.40	45.61
CUT\FILL	0.00	-0.32	-0.24	-0.07	0.06	0.05	0.27	0.18	0.17	0.00
EXIST SURFACE	45.05	45.12	45.17	45.26	45.27	45.38	45.49	45.50	45.57	45.61
OFFSETS	-10.38	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	7.30

CH 26.96



RL 44.5

DESIGN SURFACE	45.35	45.89	45.86	45.77	45.66	45.77	45.66	45.77	45.84	46.38
CUT\FILL	0.00	-0.36	-0.25	-0.02	0.12	0.18	0.46	0.37	0.39	0.00
EXIST SURFACE	45.35	45.53	45.61	45.75	45.78	45.95	46.12	46.14	46.24	46.38
OFFSETS	-11.25	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	9.20

CH 77.37

AS-CONSTRUCTED SIGNATURES

05/11/2025
SIGN DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

Sidney Glenister 05/11/2025
SIGN DATE
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK AND CROSS SECTIONS UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE H 1:100 V 1:50 @ A1, 1:200 V 1:50 @ A3
H 1 0 1 2 3 4 5 H
V 0.5 0 0.5 1 1.5 2.0 2.5 V
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

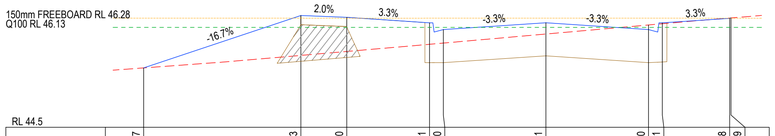
COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD CROSS SECTIONS-HAMA AVENUE - SHEET 1 OF 2
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED | PROJECT & DWG No: A4041D-05-RD601 | REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12DDATA\TOMK\BGO-12DS01\A4041 - ASH ROAD LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD600.DWG

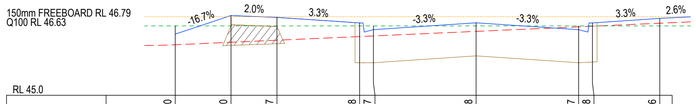
STRUCTURAL FILL AS PER NOTE 29 ON RD000



RL 44.5

DESIGN SURFACE	45.47		46.33	46.30	46.21	46.10	46.21		46.10	46.21	46.28	46.29		
CUT\FILL	0.00		-0.65	-0.56	-0.35	-0.22	-0.18		0.08	-0.01	0.01	0.00		
EXIST SURFACE	45.47		45.67	45.74	45.86	45.87	46.02		46.17	46.19	46.28	46.29		
OFFSETS	-13.13		-8.00	-6.50	-3.80	-3.35	0.00		3.35	3.80	6.00	6.04		

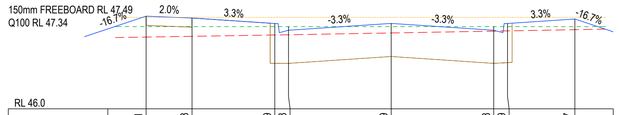
TP CH 164.31



RL 45.0

DESIGN SURFACE	46.50		46.80	46.77	46.68	46.57	46.68		46.57	46.68	46.76			
CUT\FILL	-0.17		-0.44	-0.37	-0.22	-0.10	-0.14		0.05	-0.05	-0.08			
EXIST SURFACE	46.33		46.37	46.40	46.46	46.47	46.54		46.62	46.63	46.68			
OFFSETS	-9.82		-8.00	-6.50	-3.80	-3.35	0.00		3.35	3.80	6.00			

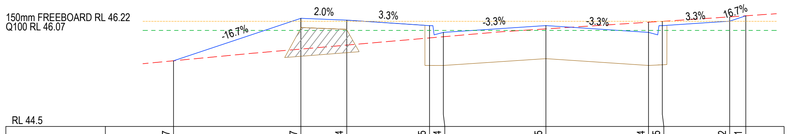
CH 226.43



RL 46.0

DESIGN SURFACE	47.51		47.48	47.39	47.28	47.39	47.28		47.39	47.47				
CUT\FILL	-0.34		-0.30	-0.19	-0.07	-0.16	-0.01		-0.12	-0.17				
EXIST SURFACE	47.17		47.18	47.21	47.21	47.24	47.27		47.27	47.29				
OFFSETS	-8.00		-6.50	-3.80	-3.35	0.00	3.35		3.80	6.00				

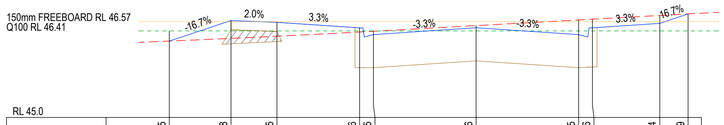
LTP CH 260.84



RL 44.5

DESIGN SURFACE	45.57		46.27	46.24	46.15	46.04	46.15		46.04	46.15	46.22	46.31		
CUT\FILL	0.00		-0.50	-0.41	-0.20	-0.07	-0.05		0.17	0.07	0.07	0.00		
EXIST SURFACE	45.57		45.76	45.83	45.95	45.96	46.09		46.20	46.22	46.29	46.31		
OFFSETS	-12.16		-8.00	-6.50	-3.80	-3.35	0.00		3.35	3.80	6.00	6.53		

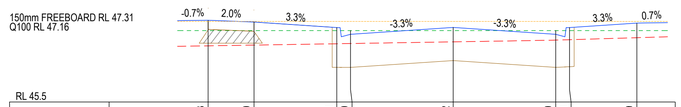
CH 152.42



RL 45.0

DESIGN SURFACE	46.25		46.58	46.55	46.46	46.35	46.46		46.35	46.46	46.54	46.69		
CUT\FILL	0.00		-0.29	-0.23	-0.07	0.05	0.04		0.24	0.14	0.13	0.00		
EXIST SURFACE	46.25		46.29	46.33	46.40	46.41	46.50		46.59	46.60	46.66	46.69		
OFFSETS	-10.01		-8.00	-6.50	-3.80	-3.35	0.00		3.35	3.80	6.00	6.92		

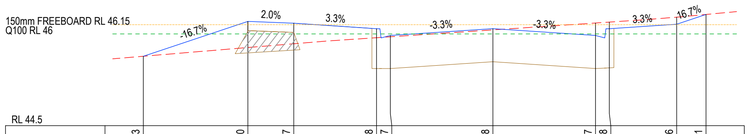
CH 212.43



RL 45.5

DESIGN SURFACE	47.33		47.30	47.21	47.10	47.22	47.10		47.21	47.29				
CUT\FILL	-0.42		-0.38	-0.26	-0.15	-0.23	-0.09		-0.20	-0.24				
EXIST SURFACE	46.92		46.93	46.95	46.95	46.98	47.01		47.02	47.05				
OFFSETS	-8.00		-6.50	-3.80	-3.35	0.00	3.35		3.80	6.00				

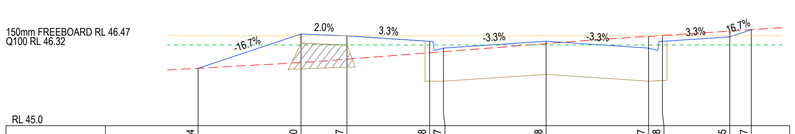
CH 252.24



RL 44.5

DESIGN SURFACE	45.63		46.20	46.17	46.08	45.97	46.08		45.97	46.08	46.16	46.31		
CUT\FILL	0.00		-0.43	-0.34	-0.15	-0.02	-0.02		0.20	0.11	0.12	0.00		
EXIST SURFACE	45.63		45.78	45.84	45.94	45.95	46.06		46.18	46.19	46.27	46.31		
OFFSETS	-11.41		-8.00	-6.50	-3.80	-3.35	0.00		3.35	3.80	6.00	6.96		

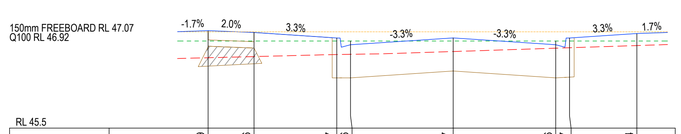
CH 139.65



RL 45.0

DESIGN SURFACE	45.94		46.50	46.47	46.38	46.27	46.38		46.27	46.38	46.45	46.57		
CUT\FILL	0.00		-0.47	-0.38	-0.19	-0.06	-0.04		0.19	0.10	0.09	0.00		
EXIST SURFACE	45.94		46.03	46.08	46.19	46.21	46.34		46.46	46.47	46.54	46.57		
OFFSETS	-11.36		-8.00	-6.50	-3.80	-3.35	0.00		3.35	3.80	6.00	6.70		

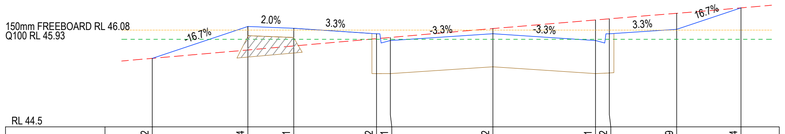
CH 198.43



RL 45.5

DESIGN SURFACE	47.09		47.06	46.97	46.86	46.97	46.86		46.97	47.04				
CUT\FILL	-0.44		-0.39	-0.27	-0.16	-0.22	-0.06		-0.16	-0.20				
EXIST SURFACE	46.65		46.67	46.70	46.71	46.75	46.80		46.81	46.85				
OFFSETS	-8.00		-6.50	-3.80	-3.35	0.00	3.35		3.80	6.00				

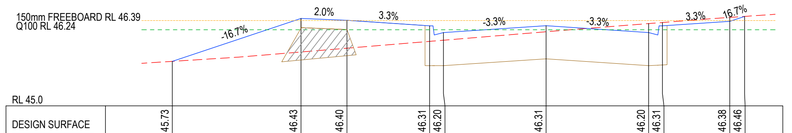
CH 240.43



RL 44.5

DESIGN SURFACE	45.62		46.14	46.11	46.02	45.91	46.02		45.91	46.02	46.09	46.44		
CUT\FILL	0.00		-0.38	-0.29	-0.08	0.05	0.08		0.34	0.24	0.26	0.00		
EXIST SURFACE	45.62		45.75	45.82	45.94	45.96	46.10		46.24	46.26	46.35	46.44		
OFFSETS	-11.12		-8.00	-6.50	-3.80	-3.35	0.00		3.35	3.80	6.00	8.10		

CH 126.87



RL 45.0

DESIGN SURFACE	45.73		46.43	46.40	46.31	46.20	46.31		46.20	46.31	46.38	46.46		
CUT\FILL	0.00		-0.55	-0.46	-0.25	-0.13	-0.10		0.15	0.05	0.06	0.00		
EXIST SURFACE	45.73		45.88	45.94	46.05	46.07	46.21		46.34	46.36	46.44	46.46		
OFFSETS	-12.20		-8.00	-6.50	-3.80	-3.35	0.00		3.35	3.80	6.00	6.48		

CH 184.43

AS-CONSTRUCTED SIGNATURES

SIGN ..... DATE 05/11/2025

TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN Sidney Glanister DATE 05/11/2025

DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK AND CROSS SECTIONS UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE H 1:100 V 1:50 @ A1, 1:200 V 1:50 @ A3
H 1 0 1 2 3 4 5 H
V 0.5 0 0.5 1 1.5 2.0 2.5 V
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

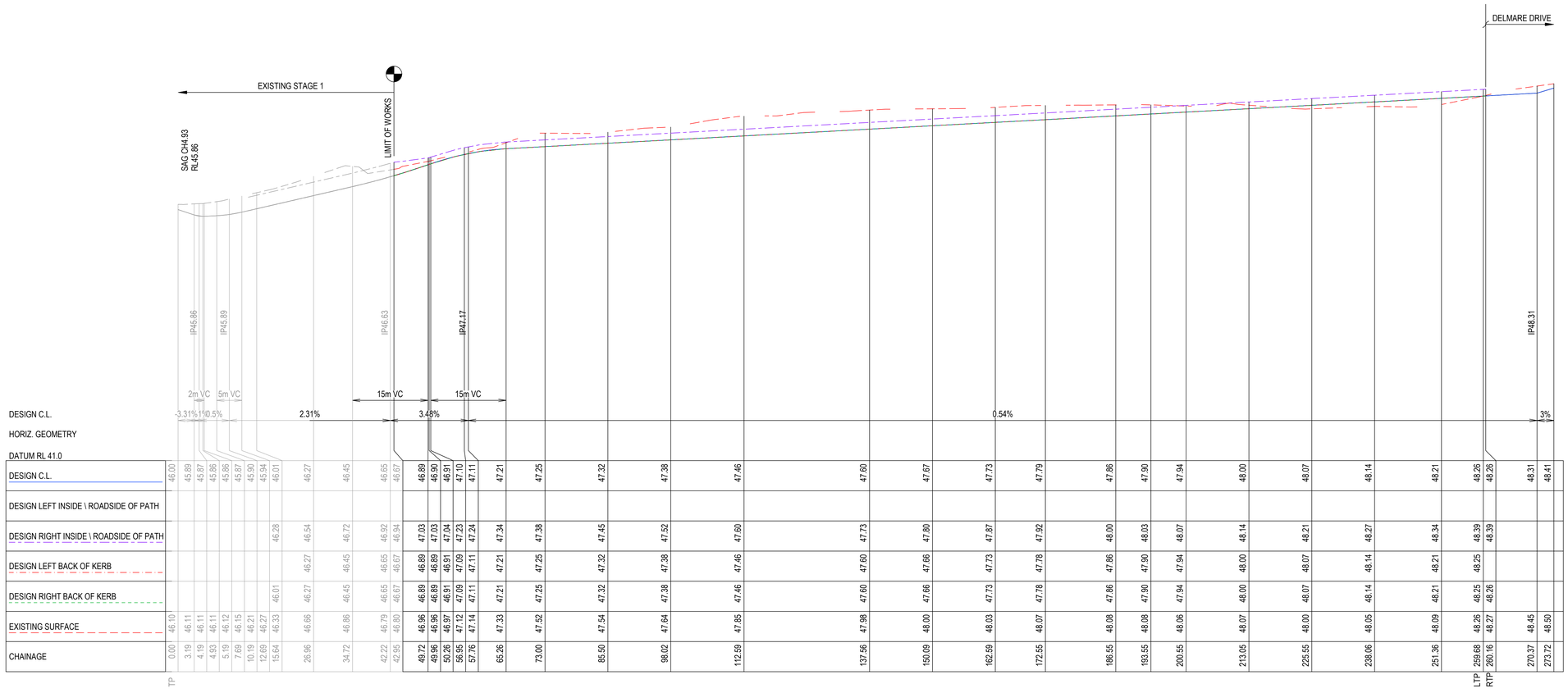
COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD CROSS SECTIONS-HAMA AVENUE - SHEET 2 OF 2

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

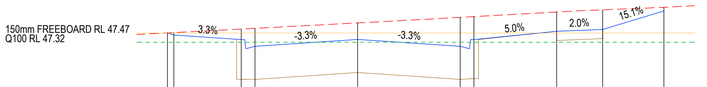
DWG STATUS: AS CONTRUCTED | PROJECT & DWG No: A4041D-05-RD602 | REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12DDATA\TOMK6GO-12DS01\A4041 - ASH ROAD LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD600.DWG


EXISTING STAGE 1
LIMIT OF WORKS
DELMARE DRIVE
SAG CH4.93
RL45.86
IP45.86
IP45.89
IP46.63
IP47.17
IP48.31
2m VC
5m VC
15m VC
15m VC
DESIGN C.L.
HORIZ. GEOMETRY
DATUM RL 41.0
-3.31%
0.5%
2.31%
3.48%
0.54%
3%

| | | |

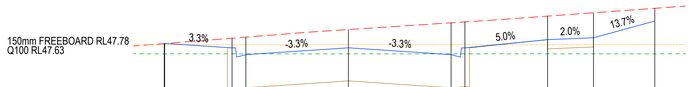
STRUCTURAL FILL AS PER NOTE 29 ON RD000



RL 46.0

DESIGN SURFACE	47.48	47.44	47.37	47.26	47.37	47.26	47.37	47.50	47.53	47.83
CUT\FILL	0.00	0.04	0.17	0.29	0.27	0.47	0.37	0.31	0.32	0.06
EXIST SURFACE	47.48	47.48	47.54	47.55	47.64	47.73	47.74	47.82	47.85	47.89
OFFSETS	-6.21	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

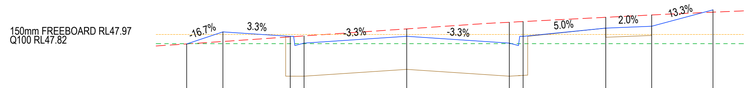
CH 98.02



RL 46.5

DESIGN SURFACE	47.80	47.80	47.73	47.62	47.73	47.62	47.73	47.87	47.90	48.17
CUT\FILL	0.00	-0.00	0.16	0.29	0.30	0.52	0.42	0.38	0.41	0.21
EXIST SURFACE	47.80	47.80	47.89	47.91	48.03	48.14	48.16	48.25	48.30	48.38
OFFSETS	-6.02	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

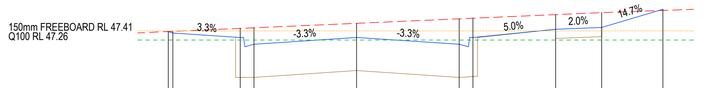
CH 162.59



RL 46.5

DESIGN SURFACE	47.81	48.01	47.94	47.83	47.94	47.83	47.94	48.07	48.10	48.37
CUT\FILL	0.00	-0.16	-0.01	0.12	0.12	0.34	0.24	0.18	0.18	-0.04
EXIST SURFACE	47.81	47.85	47.93	47.94	48.06	48.17	48.18	48.25	48.29	48.33
OFFSETS	-7.18	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

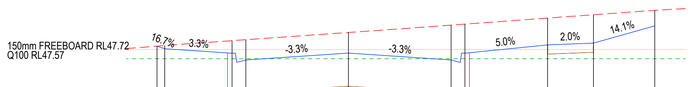
CH 200.55



RL 46.0

DESIGN SURFACE	47.40	47.38	47.30	47.19	47.31	47.19	47.30	47.44	47.47	47.77
CUT\FILL	0.00	0.03	0.15	0.27	0.23	0.42	0.32	0.24	0.24	-0.02
EXIST SURFACE	47.40	47.41	47.45	47.46	47.54	47.61	47.62	47.68	47.71	47.75
OFFSETS	-6.15	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

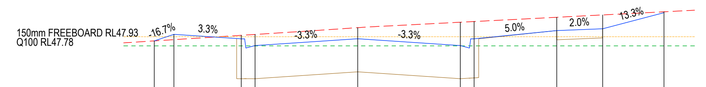
CH 85.5



RL 46.5

DESIGN SURFACE	47.78	47.74	47.66	47.55	47.67	47.55	47.66	47.80	47.83	48.11
CUT\FILL	0.00	0.05	0.20	0.33	0.34	0.57	0.47	0.44	0.46	0.25
EXIST SURFACE	47.78	47.79	47.87	47.88	48.00	48.12	48.14	48.24	48.29	48.36
OFFSETS	-6.25	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

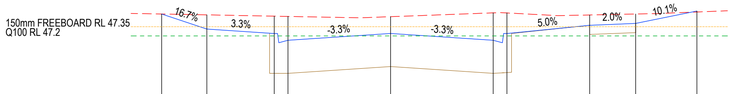
CH 150.09



RL 46.5

DESIGN SURFACE	47.86	47.97	47.90	47.79	47.90	47.79	47.90	48.03	48.06	48.33
CUT\FILL	0.00	-0.09	0.06	0.18	0.18	0.38	0.28	0.22	0.23	0.01
EXIST SURFACE	47.86	47.88	47.96	47.97	48.08	48.17	48.18	48.25	48.29	48.34
OFFSETS	-6.64	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

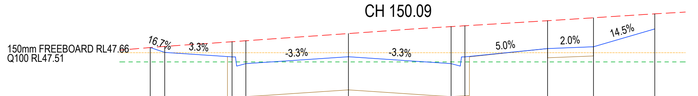
CH 193.55



RL 46.0

DESIGN SURFACE	47.56	47.32	47.24	47.13	47.24	47.13	47.24	47.38	47.41	47.61
CUT\FILL	0.00	0.23	0.28	0.39	0.27	0.45	0.34	0.17	0.15	-0.02
EXIST SURFACE	47.56	47.55	47.53	47.52	47.52	47.58	47.58	47.55	47.56	47.59
OFFSETS	-7.48	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

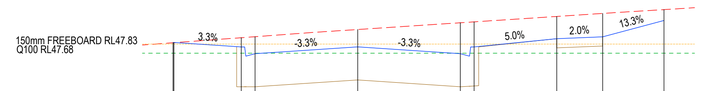
CH 73



RL 46.0

DESIGN SURFACE	47.75	47.67	47.60	47.49	47.60	47.49	47.60	47.73	47.76	48.05
CUT\FILL	0.00	0.10	0.25	0.37	0.38	0.60	0.51	0.45	0.47	0.25
EXIST SURFACE	47.75	47.77	47.84	47.86	47.98	48.09	48.10	48.19	48.23	48.30
OFFSETS	-6.47	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

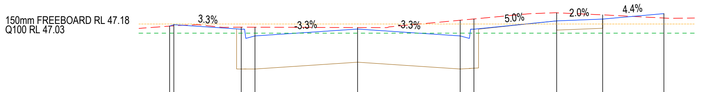
CH 137.56



RL 46.5

DESIGN SURFACE	47.85	47.86	47.78	47.67	47.79	47.67	47.78	47.92	47.95	48.22
CUT\FILL	0.00	-0.00	0.15	0.28	0.28	0.50	0.41	0.36	0.38	0.18
EXIST SURFACE	47.85	47.85	47.94	47.95	48.07	48.18	48.19	48.28	48.33	48.39
OFFSETS	-6.03	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

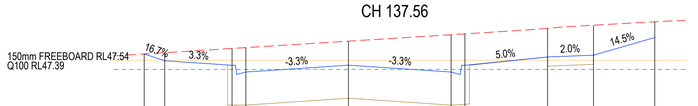
CH 172.55



RL 45.5

DESIGN SURFACE	47.14	47.17	47.09	46.98	47.09	46.98	47.09	47.23	47.26	47.35
CUT\FILL	0.00	-0.02	0.03	0.14	0.03	0.26	0.17	0.13	0.07	-0.07
EXIST SURFACE	47.14	47.15	47.13	47.13	47.12	47.24	47.26	47.36	47.33	47.28
OFFSETS	-6.14	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

CH 56.95



RL 46.0

DESIGN SURFACE	47.65	47.53	47.46	47.35	47.46	47.35	47.46	47.60	47.63	47.91
CUT\FILL	0.00	0.13	0.27	0.40	0.39	0.61	0.51	0.47	0.49	0.26
EXIST SURFACE	47.65	47.67	47.74	47.75	47.85	47.96	47.97	48.07	48.11	48.17
OFFSETS	-6.67	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00

CH 112.59

AS-CONSTRUCTED SIGNATURES

SIGN ..... DATE 05/11/2025

TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN ..... DATE 05/11/2025

DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK AND CROSS SECTIONS UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE 0007966

Tomkinson
SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT

10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE H 1:100 V 1:50 @ A1, 1:200 V 1:50 @ A3
H 1 0 1 2 3 4 5 H
V 0.5 0 0.5 1 1.5 2 2.5 V
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

COMPASS ASSURANCE ISO 9001 QUALITY

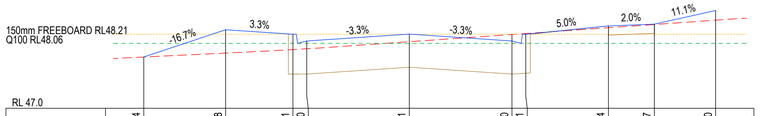
ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD CROSS SECTIONS-ELDORIS AVENUE - SHEET 1 OF 2

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED | PROJECT & DWG No: A4041D-05-RD611 | REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMK6GO-12DS01\A4041 - ASH ROAD LEOPOLD\ C VILLAWOOD BENDIGO\ LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD600.DWG

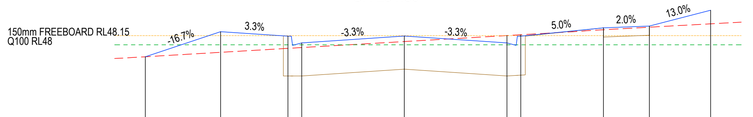
STRUCTURAL FILL AS PER NOTE 29 ON RD000



RL 47.0

DESIGN SURFACE	47.84	48.28	48.21	48.10	48.21	48.10	48.21	48.34	48.37	48.60	
CUT/FILL	0.00	-0.38	-0.25	-0.13	-0.12	0.11	0.01	-0.03	-0.01	-0.16	
EXIST SURFACE	47.84	47.90	47.96	47.97	48.09	48.21	48.22	48.32	48.37	48.44	
OFFSETS	-8.67	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00	

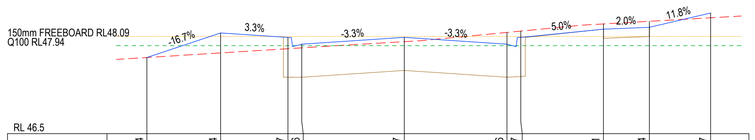
CH 251.36



RL 46.5

DESIGN SURFACE	47.80	48.21	48.14	48.03	48.14	48.03	48.14	48.27	48.30	48.56	
CUT/FILL	0.00	-0.34	-0.20	-0.08	-0.09	0.12	0.02	-0.03	-0.02	-0.22	
EXIST SURFACE	47.80	47.87	47.94	47.95	48.05	48.15	48.16	48.24	48.28	48.34	
OFFSETS	-8.46	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00	

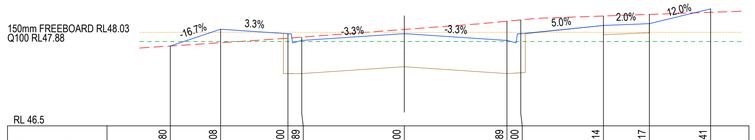
CH 238.06



RL 46.5

DESIGN SURFACE	47.74	48.14	48.07	47.96	48.07	47.96	48.07	48.21	48.24	48.47	
CUT/FILL	0.00	-0.33	-0.18	-0.06	-0.07	0.19	0.10	0.09	0.10	-0.08	
EXIST SURFACE	47.74	47.82	47.89	47.90	48.00	48.15	48.17	48.29	48.33	48.39	
OFFSETS	-8.40	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00	

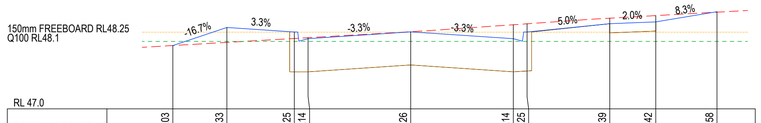
CH 225.55



RL 46.5

DESIGN SURFACE	47.80	48.08	48.00	47.89	48.00	47.89	48.00	48.14	48.17	48.41	
CUT/FILL	0.00	-0.22	-0.07	0.05	0.07	0.31	0.23	0.15	0.15	-0.06	
EXIST SURFACE	47.80	47.86	47.93	47.95	48.07	48.21	48.23	48.29	48.32	48.35	
OFFSETS	-7.64	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00	

CH 213.05



RL 47.0

DESIGN SURFACE	48.03	48.33	48.25	48.14	48.26	48.14	48.25	48.39	48.42	48.58	
CUT/FILL	0.00	-0.24	-0.11	0.02	0.00	0.23	0.13	0.09	0.10	-0.01	
EXIST SURFACE	48.03	48.08	48.15	48.16	48.26	48.37	48.39	48.48	48.52	48.58	
OFFSETS	-7.77	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00	

CH 259.68

AS-CONSTRUCTED SIGNATURES

05/11/2025
SIGN DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

Sidney Glanister 05/11/2025
SIGN DATE
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK AND CROSS SECTIONS UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE H 1:100 V 1:50 @ A1, 1:200 V 1:50 @ A3
H 1 0 1 2 3 4 5 H
V 0.5 0 0.5 1 1.5 2 2.5 V
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

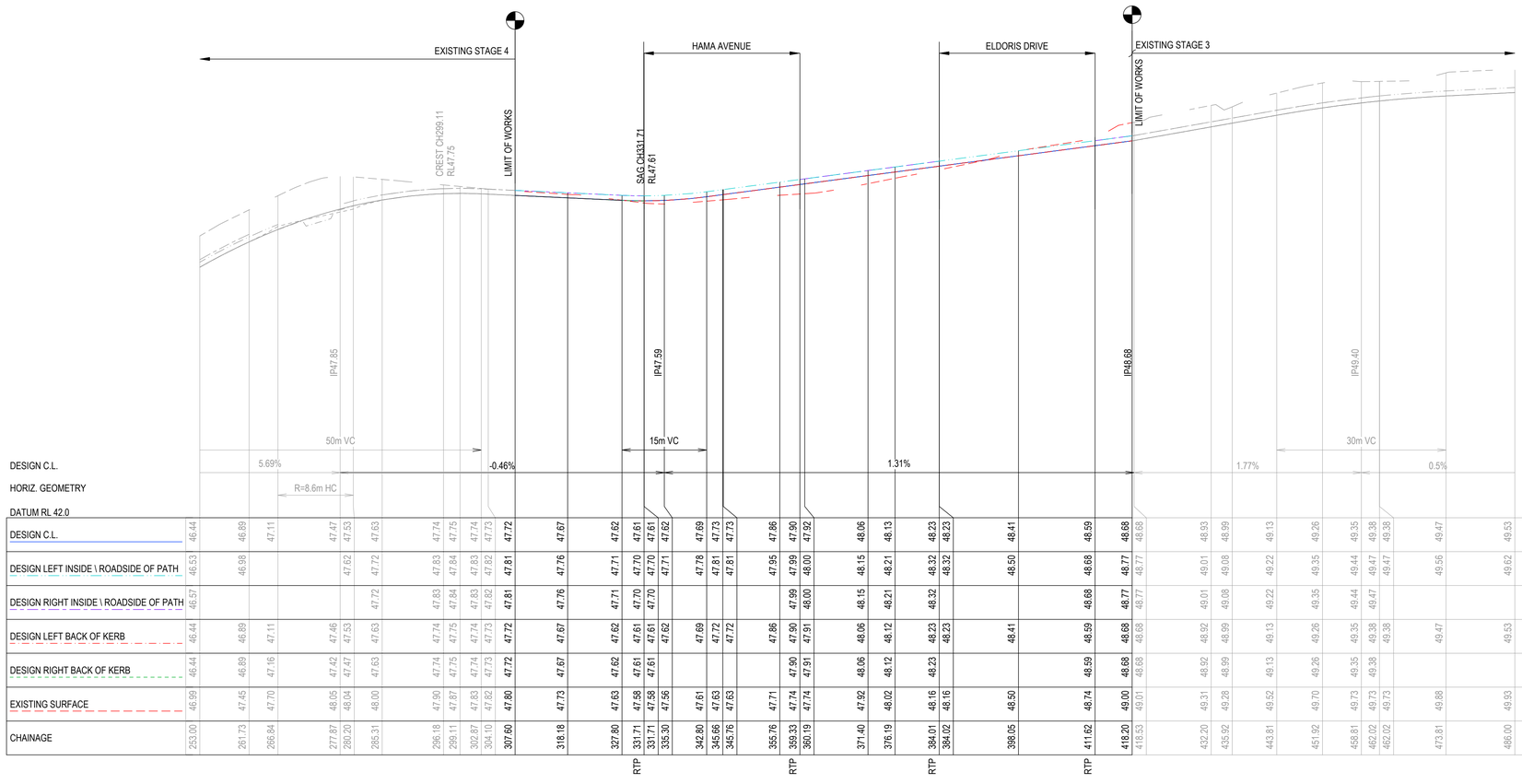
COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD CROSS SECTIONS-ELDORIS AVENUE - SHEET 2 OF 2

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD612
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12\DATA\TOMK8GO-12DSO1\A4041 - ASH ROAD LEOPOLD\C VILLAWOOD BENDIGO, LEOPOLD_9886\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD600.DWG



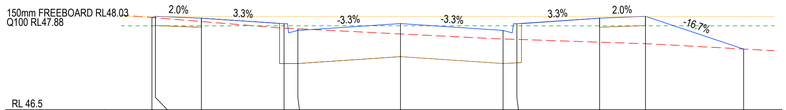
DESIGN C.L.

HORIZ. GEOMETRY

DATUM RL 42.0

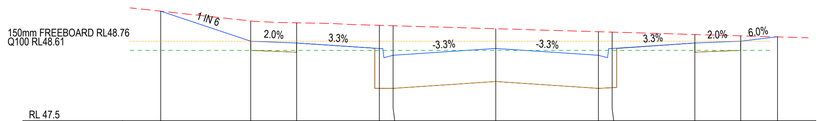
| | | |

STRUCTURAL FILL AS PER NOTE 29 ON RD000



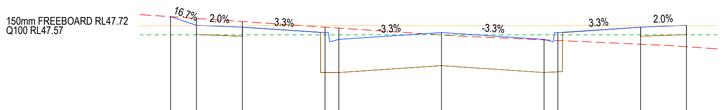
RL 46.5								
DESIGN SURFACE	48.00	48.02	47.99	47.90	47.79	47.90	47.79	47.90	47.99	48.02	47.49
CUT\FILL	0.00	-0.02	-0.05	-0.07	0.03	-0.17	-0.14	-0.26	-0.39	-0.45	0.00
EXIST SURFACE	48.00	48.00	47.94	47.83	47.82	47.74	47.65	47.65	47.60	47.58	47.49
OFFSETS	-8.12	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	11.20

RTP CH 359.33



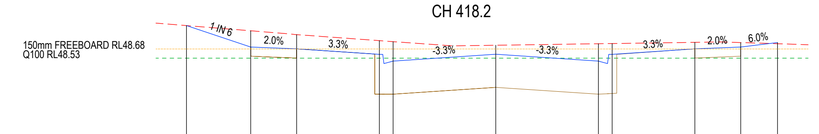
RL 47.5											
DESIGN SURFACE	49.29	48.80	48.77	48.68	48.57	48.68	48.57	48.68	48.77	48.80	48.87
CUT\FILL	0.00	0.33	0.33	0.38	0.48	0.32	0.38	0.27	0.14	0.09	-0.00
EXIST SURFACE	49.29	49.13	49.10	49.06	49.05	49.00	48.95	48.95	48.91	48.88	48.87
OFFSETS	-10.94	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	9.20

CH 418.2



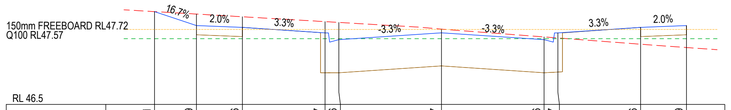
RL 46.0									
DESIGN SURFACE	47.87	47.73	47.70	47.61	47.50	47.61	47.50	47.61	47.70	47.73
CUT\FILL	0.00	0.11	0.09	0.09	0.18	-0.04	-0.01	-0.13	-0.28	-0.35
EXIST SURFACE	47.87	47.85	47.79	47.70	47.69	47.58	47.50	47.49	47.42	47.38
OFFSETS	-8.85	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00

RTP CH 331.71



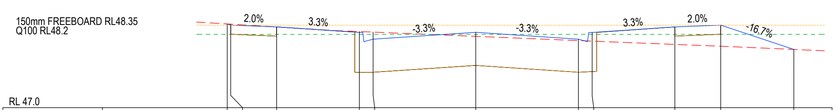
RL 47.0											
DESIGN SURFACE	49.06	48.71	48.68	48.59	48.48	48.59	48.48	48.59	48.68	48.71	48.78
CUT\FILL	0.00	0.26	0.23	0.22	0.32	0.15	0.28	0.18	0.11	0.07	-0.02
EXIST SURFACE	49.06	48.98	48.91	48.81	48.80	48.74	48.76	48.77	48.79	48.78	48.76
OFFSETS	-10.10	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	9.20

RTP CH 411.62



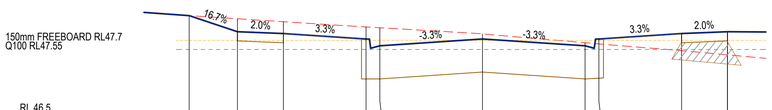
RL 46.5									
DESIGN SURFACE	48.01	47.79	47.76	47.67	47.56	47.67	47.56	47.67	47.76	47.79
CUT\FILL	0.00	0.19	0.17	0.18	0.28	0.06	0.04	-0.08	-0.27	-0.36
EXIST SURFACE	48.01	47.97	47.93	47.85	47.84	47.73	47.60	47.58	47.48	47.43
OFFSETS	-9.37	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00

CH 318.18



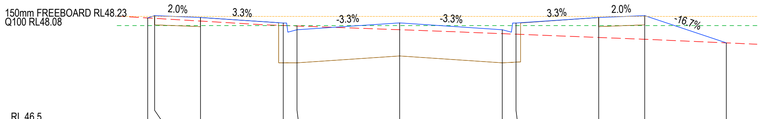
RL 47.0									
DESIGN SURFACE	48.37	48.35	48.32	48.23	48.12	48.23	48.12	48.23	48.32	48.35	47.95
CUT\FILL	0.00	0.02	-0.00	0.01	0.12	-0.07	-0.02	-0.14	-0.29	-0.35	0.00
EXIST SURFACE	48.37	48.36	48.32	48.24	48.23	48.16	48.09	48.09	48.03	48.00	47.95
OFFSETS	-8.11	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.38

RTP CH 384.01



RL 46.5									
DESIGN SURFACE	48.10	47.84	47.81	47.72	47.61	47.72	47.61	47.72	47.81	47.84
CUT\FILL	0.00	0.21	0.19	0.20	0.30	0.08	0.05	-0.08	-0.28	-0.38
EXIST SURFACE	48.10	48.05	48.00	47.91	47.90	47.80	47.66	47.64	47.53	47.46
OFFSETS	-9.57	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00

CH 307.6



RL 46.5										
DESIGN SURFACE	48.21	48.24	48.21	48.12	48.01	48.13	48.01	48.12	48.21	48.24	47.80
CUT\FILL	0.00	-0.04	-0.06	-0.04	0.06	-0.11	-0.06	-0.18	-0.33	-0.39	0.00
EXIST SURFACE	48.21	48.20	48.16	48.08	48.08	48.02	47.95	47.94	47.89	47.86	47.80
OFFSETS	-8.23	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.67

CH 376.19

AS-CONSTRUCTED SIGNATURES

SIGN ..... DATE 05/11/2025

TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN *Sidney Glanister* DATE 05/11/2025

DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK AND CROSS SECTIONS UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:10007966

Tomkinson
SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE H 1:100 V 1:50 @ A1, 1:200 V 1:50 @ A3
H 1 0 1 2 3 4 5 H
V 0.5 0 0.5 1 1.5 2.0 2.5 V
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

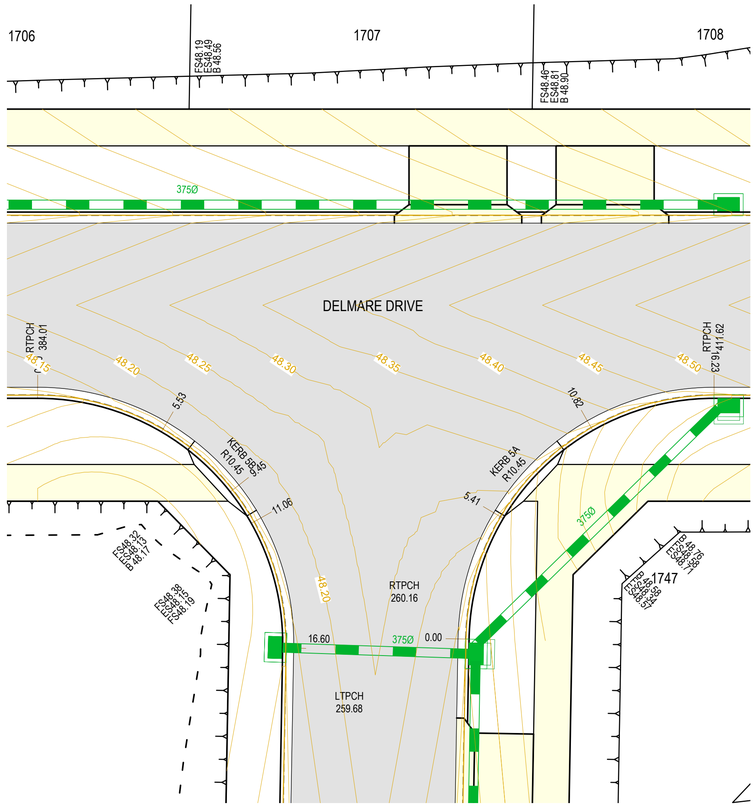
COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD CROSS SECTIONS-DELMARE DRIVE

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED | PROJECT & DWG No: A4041D-05-RD621 | REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12\DATA\TOMK\GO-12DS01\A4041 - ASH ROAD LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD600.DWG



SCALE 1:125 @ A1, 1:250 @ A3

1.25 0 1.25 2.5 3.75 5 6.25

LENGTHS ARE IN METRES

AS-CONSTRUCTED SIGNATURES

05/11/2025

SIGN DATE

TOMKINSON GROUP

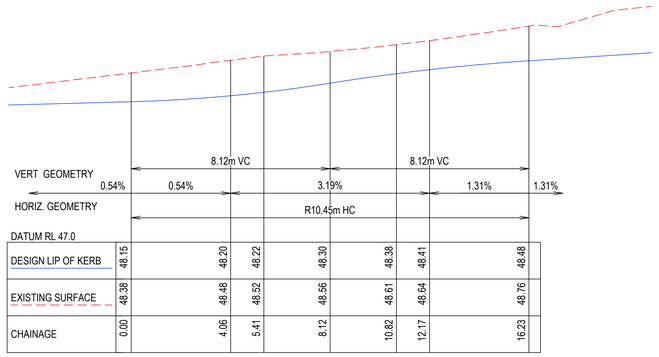
10/6-8 BOSTON RD, TORQUAY 3228

Sidney Glanister 05/11/2025

SIGN DATE

DRAPER'S CIVIL CONTRACTING PTY LTD

54-56 LEATHER ST, BREAKWATER VIC 3219



DESIGN LIP OF KERB	48.15	48.20	48.22	48.30	48.38	48.41	48.48	
EXISTING SURFACE	48.38	48.48	48.52	48.56	48.61	48.64	48.76	
CHAINAGE	0.00	4.06	5.41	8.12	10.82	12.17	16.23	

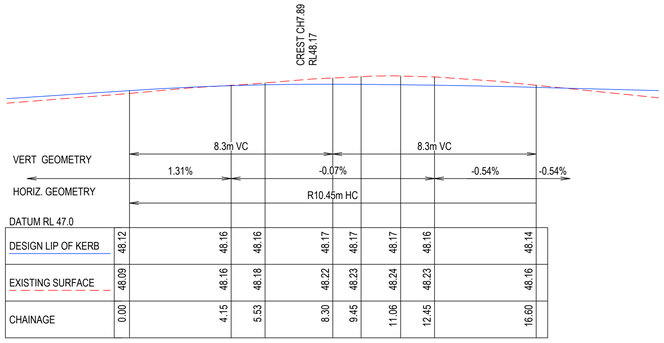
KERB 5A

SCALE H 1:125 V 1:25 @ A1, 1:250 V 1:50 @ A3

H 1.25 0 1.25 2.5 3.75 5.0 6.25 H

V 0.25 0 0.25 0.5 0.75 1.0 1.25 V

LENGTHS ARE IN METRES



DESIGN LIP OF KERB	48.12	48.16	48.16	48.17	48.17	48.17	48.16	48.14
EXISTING SURFACE	48.09	48.16	48.18	48.22	48.23	48.24	48.23	48.16
CHAINAGE	0.00	4.15	5.53	8.30	9.45	11.06	12.45	16.60

KERB 5B

SCALE H 1:125 V 1:25 @ A1, 1:250 V 1:50 @ A3

H 1.25 0 1.25 2.5 3.75 5.0 6.25 H

V 0.25 0 0.25 0.5 0.75 1.0 1.25 V

LENGTHS ARE IN METRES

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK,CONTOURS AND LONG SECTIONS UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

MGA94 ZONE 55

Tomkinson

SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT

10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II

LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE AS SHOWN

LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021

ASH ROAD, LEOPOLD

ROAD AND DRAINAGE

INTERSECTION DETAILS SHEET 1 OF 2

AUTHORITY: CITY OF GREATER GEELONG

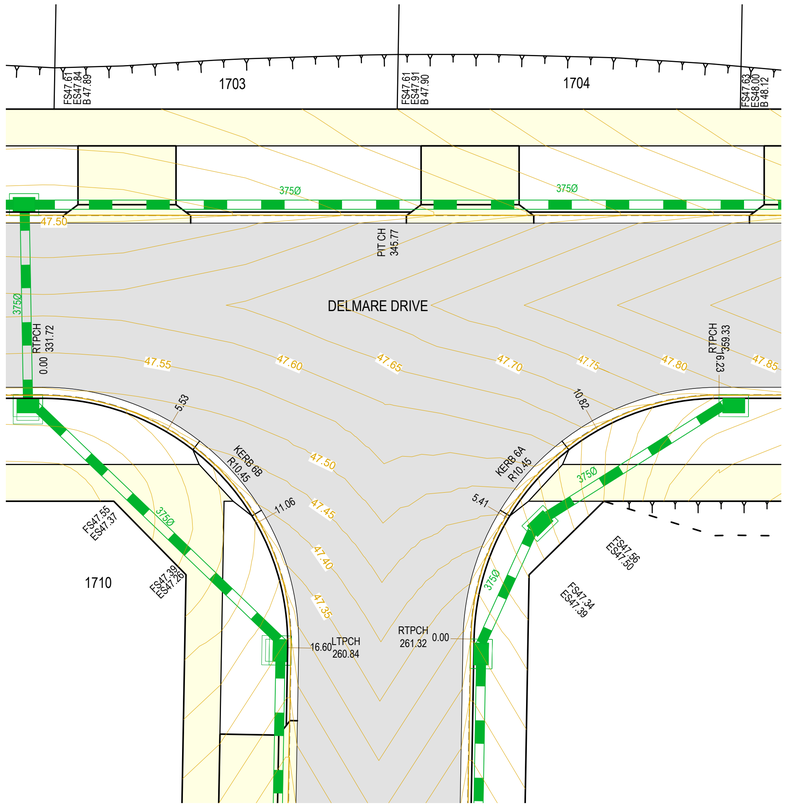
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED

PROJECT & DWG No: A4041D-05 -RD700

REV: AC2

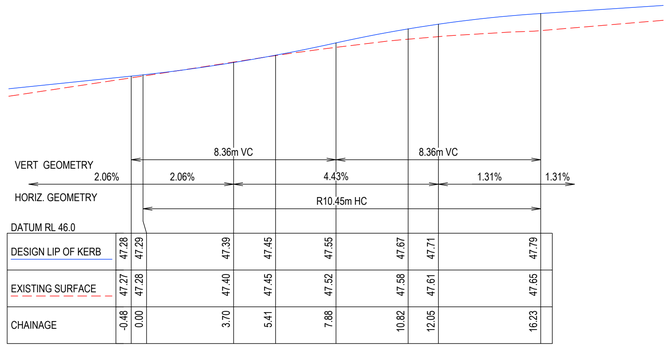
NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMKBGO-12DS001\A4041 - ASH ROAD LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD700.DWG



SCALE 1:125 @ A1, 1:250 @ A3

1.25 0 1.25 2.5 3.75 5 6.25

LENGTHS ARE IN METRES



DESIGN LIP OF KERB	47.28	47.29	47.39	47.45	47.55	47.67	47.71	47.79
EXISTING SURFACE	47.27	47.28	47.40	47.45	47.52	47.58	47.61	47.65
CHAINAGE	-0.48	0.00	3.70	5.41	7.88	10.82	12.05	16.23

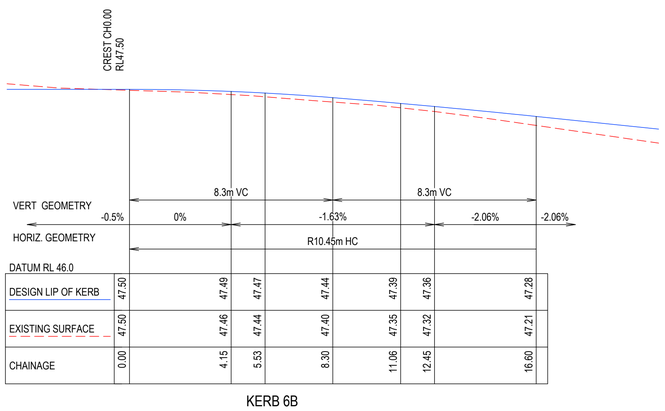
KERB 6A

SCALE H 1:125 V 1:25 @ A1, 1:250 V 1:50 @ A3

H 1.25 0 1.25 2.5 3.75 5.0 6.25 H

V 0.25 0 0.25 0.5 0.75 1.0 1.25 V

LENGTHS ARE IN METRES



DESIGN LIP OF KERB	47.50		47.49	47.47	47.44	47.39	47.36	47.28
EXISTING SURFACE	47.50		47.46	47.44	47.40	47.35	47.32	47.21
CHAINAGE	0.00		4.15	5.53	8.30	11.06	12.45	16.60

KERB 6B

SCALE H 1:125 V 1:25 @ A1, 1:250 V 1:50 @ A3

H 1.25 0 1.25 2.5 3.75 5.0 6.25 H

V 0.25 0 0.25 0.5 0.75 1.0 1.25 V

LENGTHS ARE IN METRES

AS-CONSTRUCTED SIGNATURES

05/11/2025

SIGN DATE

TOMKINSON GROUP

10/6-8 BOSTON RD, TORQUAY 3228

Sidney Glenister 05/11/2025

SIGN DATE

DRAPER'S CIVIL CONTRACTING PTY LTD

54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK,CONTOURS AND LONG SECTIONS UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

MGA94 ZONE 55

Tomkinson

SURVEY ▶ ENGINEERING ▶ PLANNING ▶ PROJECT MANAGEMENT

10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II

LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE AS SHOWN

LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
INTERSECTION DETAILS SHEET 2 OF 2

AUTHORITY: CITY OF GREATER GEELONG

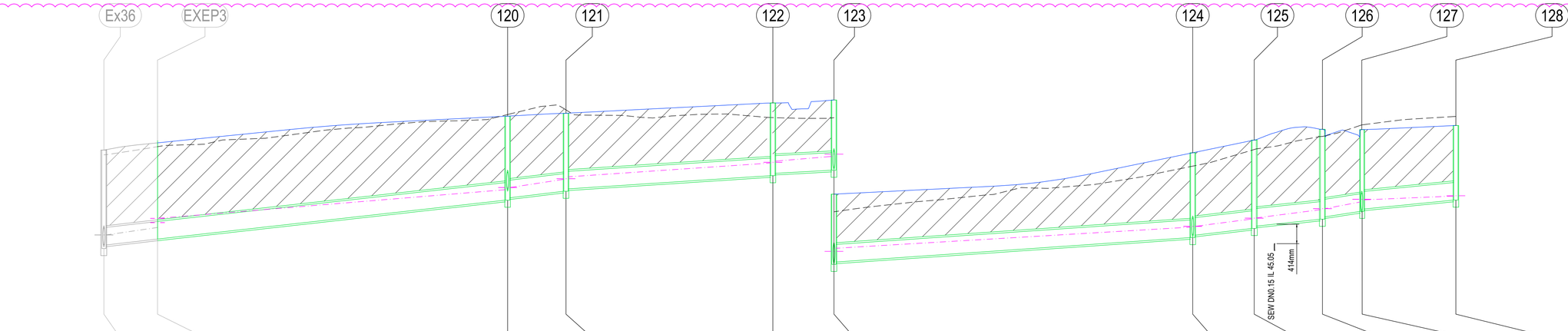
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED

PROJECT & DWG No: A4041D-05 -RD701

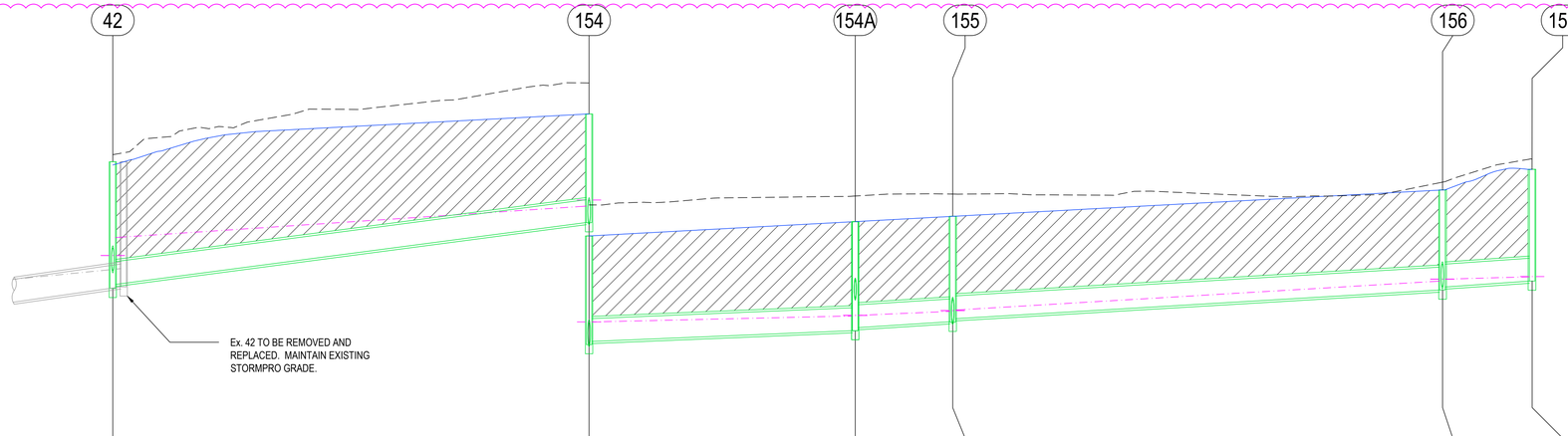
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMK\BGO-12DS01\A4041 - ASH ROAD LEOPOLD C- VILLAWOOD BENDIGO\ LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041ST5 - A4041D-05 -RD701.DWG



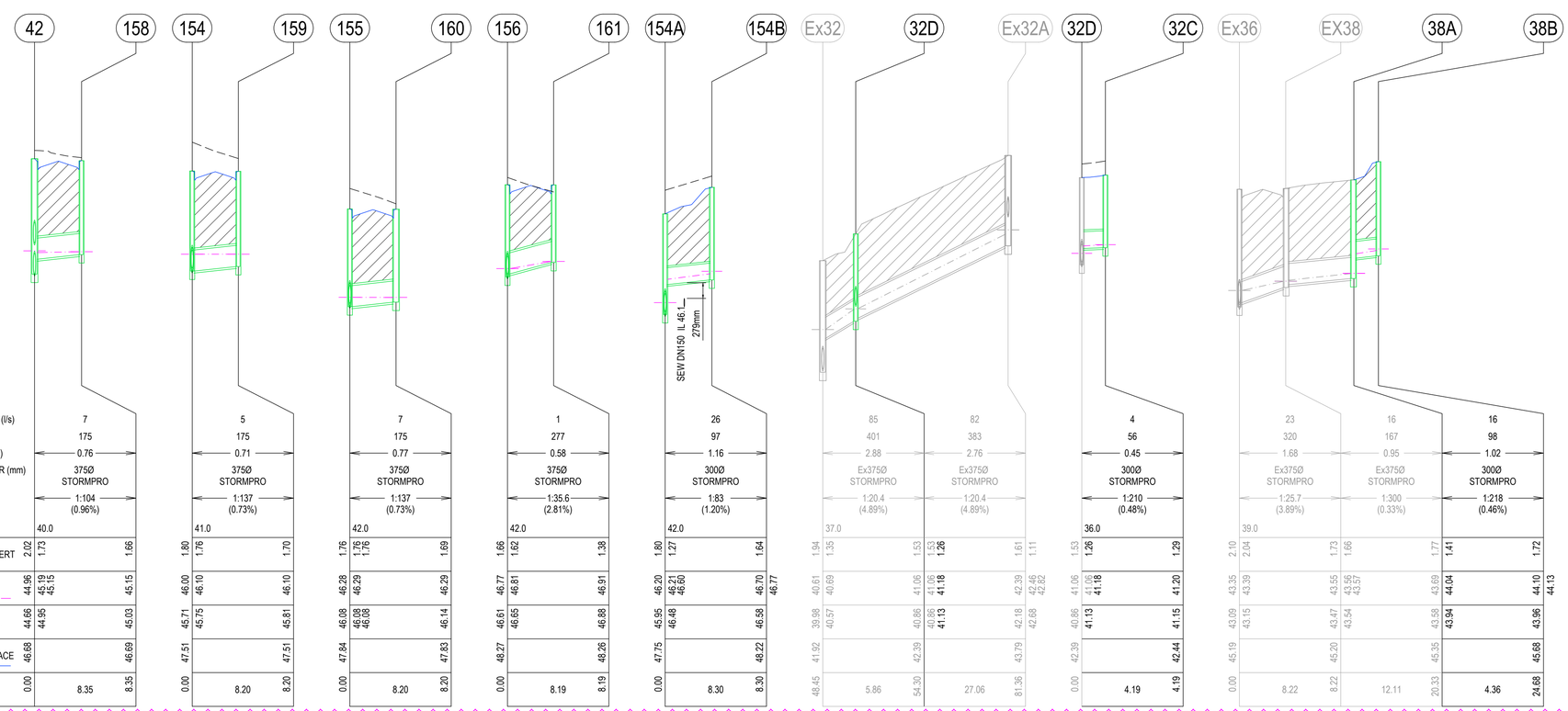
DENOTES FULL DEPTH BACKFILL AS PER IDM STD 310

| | | |



DENOTES FULL DEPTH BACKFILL AS PER IDM STD 310

DESIGN FLOW (l/s)	146	123	80	55	41	10	
CAPACITY (l/s)	206	143	111	135	135	142	
VELOCITY (m/s)	2.02	1.45	1.09	1.16	1.07	0.74	
PIPE DIAMETER (mm)	Ex. 375Ø STORMPRO	375Ø STORMPRO	375Ø STORMPRO	375Ø STORMPRO	375Ø STORMPRO	375Ø STORMPRO	
PIPE GRADE	1:72.5 (1.38%)	1:78.8 (1.27%)	1:242 (0.41%)	1:200 (0.50%)	1:174 (0.57%)	1:134 (0.75%)	
DATUM RL	40.0		42.0		42.0		
DEPTH TO INVERT	2.02	1.96 / 1.80	1.74 / 1.80	1.75 / 1.76	1.76 / 1.69	1.66	1.64 / 1.87
H.G.L	44.96	45.19 / 45.49	46.00 / 46.10	46.20 / 46.21	46.28 / 46.30	46.77	46.81 / 46.84
INVERT LEVEL	44.66	44.72 / 45.71	45.77 / 45.95	46.00 / 46.08	46.08 / 46.15	46.61	46.63 / 46.74
DESIGN SURFACE	46.68	47.51	47.75	47.84	48.27	48.61	
CHAINAGE	48.17	78.05 / 126.22	43.62 / 169.84	15.97 / 185.81	80.24	266.05	14.72 / 280.77



DESIGN FLOW (l/s)	7		5		7		1		26		85	82		4		23	16		16					
CAPACITY (l/s)	175		175		175		277		97		401	383		56		320	167		98					
VELOCITY (m/s)	0.76		0.71		0.77		0.58		1.16		2.88	2.76		0.45		1.68	0.95		1.02					
PIPE DIAMETER (mm)	375Ø STORMPRO		375Ø STORMPRO		375Ø STORMPRO		375Ø STORMPRO		300Ø STORMPRO		Ex375Ø STORMPRO	Ex375Ø STORMPRO		300Ø STORMPRO		Ex375Ø STORMPRO	Ex375Ø STORMPRO		300Ø STORMPRO					
PIPE GRADE	1:104 (0.96%)		1:137 (0.73%)		1:137 (0.73%)		1:35.6 (2.81%)		1:83 (1.20%)		1:20.4 (4.89%)	1:20.4 (4.89%)		1:210 (0.48%)		1:25.7 (3.89%)	1:300 (0.33%)		1:218 (0.46%)					
DATUM RL	40.0		41.0		42.0		42.0		42.0		37.0			36.0		39.0								
DEPTH TO INVERT	2.02	1.73 / 1.66	1.80 / 1.76 / 1.70		1.76 / 1.76 / 1.69		1.66 / 1.62 / 1.38		1.80 / 1.27 / 1.64		1.94 / 1.35 / 1.53	1.53 / 1.26 / 1.61	1.11	1.53 / 1.26 / 1.29		2.10 / 2.04 / 1.73	1.66 / 1.77		1.41 / 1.72					
H.G.L	44.96	45.19 / 45.15	46.00 / 46.10 / 46.10		46.28 / 46.29 / 46.29		46.77 / 46.81 / 46.91		46.20 / 46.21 / 46.60 / 46.70	46.77	40.61 / 40.69	41.06 / 41.06 / 41.18	42.39 / 42.46 / 42.82	41.06 / 41.06 / 41.18 / 41.20		43.35 / 43.39 / 43.55 / 43.57	43.69		44.04 / 44.10	44.13				
INVERT LEVEL	44.66	44.95 / 45.03	45.71 / 45.75 / 45.81		46.08 / 46.08 / 46.14		46.61 / 46.65 / 46.88		45.95 / 46.48 / 46.58		39.98 / 40.57	40.86 / 41.13	42.18 / 42.68	40.86 / 41.13 / 41.15		43.09 / 43.15 / 43.47 / 43.54	43.58		43.94 / 43.96					
DESIGN SURFACE	46.68	46.69	47.51 / 47.51		47.84 / 47.83		48.27 / 48.26		47.75 / 48.22		41.92 / 42.39	43.79		42.39 / 42.44		45.19 / 45.20	45.35		45.68					
CHAINAGE	0.00	8.35 / 8.35	0.00	8.20 / 8.20	0.00	8.20 / 8.20	0.00	8.19 / 8.19	0.00	8.30 / 8.30	48.45	5.86	54.30	27.06	81.36	0.00	4.19 / 4.19		0.00	8.22 / 8.22	12.11	20.33	4.36 / 24.68	

AS-CONSTRUCTED SIGNATURES

SIGN — DATE 05/11/2025
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN — DATE 05/11/2025
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
1	PIT 42 MOVED SOUTH	MK	MK	MM	CS	19/11/24
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK AND LONG SECTIONS UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:10007966

Tomkinson
SURVEY ENGINEERING PLANNING PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE H 1:500 V 1:50 @ A1, 1:1,000 V 1:100 @ A3
H 5 0 5 10 15 20 25 H
V 0.5 0 0.5 1 1.5 2.0 2.5 V
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
DRAINAGE LONGITUDINAL SECTIONS-SHEET 2 OF 2

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED — PROJECT & DWG No: A4041D-05-RD801 — REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PLOT DATE: 30/04/2026 FILE: C:\12DDATA\TOMK8GO-12DS01\A4041 - ASH ROAD LEOPOLD\C- VILLAWOOD BENDIGO, LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD800.DWG

PIT SCHEDULE

PIT		LOCATION		INTERNAL		INLET		OUTLET		PIT		
PIT NAME	PIT TYPE	EASTING	NORTHING	WIDTH	LENGTH	DIAMETER	INVERT LEVEL	DIAMETER	INVERT LEVEL	SETOUT IRL	DEPTH	REMARKS
ExEP3	EP	277880.657	5768892.866	-	-	375	43.30	375	43.30	45.39	2.09	
Ex32	JP	277825.846	5768975.822	900	900	375	40.57	450	39.98	41.92	1.94	
						375	39.99					
Ex32A	JP	277858.522	5768971.871	600	900	300	42.68	375	42.18	43.79	1.61	
						300	42.73					
Ex32B	JP	277848.814	5768902.623	600	600			300	43.15	44.30	1.16	REFER TO IDM SD405 & SD420 INSTALL CLASS D BIKE SAFE GRATE
Ex36	SEP	277879.090	5768881.581	600	900	375	43.15	450	43.09	45.19	2.10	CONSTRUCT PIT OVER EXISTING 375DIA DRAIN AND MAKE GOOD TO COUNCIL SATISFACTION
						375	43.15					
Ex38	SEP	277887.293	5768881.058	600	900	375	43.54	375	43.47	45.20	1.73	REFER TO IDM SD405 & SD420
Ex42	SEP	277932.136	5768902.571	900	900	375	45.23	375	44.68	46.73	2.05	REFER TO IDM SD410 & SD420
42	SEP	277931.888	5768900.801	900	900	375	44.72	375	44.66	46.68	2.02	CONSTRUCT NEW PIT 42 OVER EXISTING DRAINAGE REFER TO IDM SD410 & SD420
						375	44.95					
32C	GJP	277832.152	5768979.301	600	900			300	41.15	42.44	1.29	REFER TO IDM SD405 & SD 420 WITH CLASS D BIKE SAFE GRATE
32D	JP	277831.661	5768975.138	900	900	375	40.86	375	40.86	42.40	1.53	REFER TO IDM SD410 & SD 426
						300	41.13					
38A	JP	277888.968	5768893.048	600	900	300	43.94	375	43.58	45.35	1.77	REFER TO IDM SD405 & SD 420
38B	GJP	277893.282	5768892.444	600	900			300	43.96	45.68	1.72	REFER TO IDM SD405 & SD426 WITH BIKE SAFE GRATE
120	SEP	277890.995	5768966.552	600	900	375	44.11	375	44.07	45.91	1.84	REFER TO IDM SD405 & SD430
						375	44.28					
121	JP	277892.315	5768978.865	600	900	375	44.28	375	44.24	45.97	1.73	REFER TO IDM SD405 & SD420
122	JP	277888.937	5769022.702	600	900	375	44.61	375	44.58	46.19	1.61	REFER TO IDM SD405 & SD420 PROVIDE CLASS D TRAFFICABLE COVER
123	SEP	277889.563	5769035.658	600	900	375	44.79	375	44.75	46.25	1.50	REFER TO IDM SD405 & SD 430
						375	44.79					
124	SEP	277900.146	5769111.156	900	900	375	45.33	375	45.32	47.13	1.81	REFER TO IDM SD410 & SD 430
						375	45.35					
125	JP	277901.959	5769124.087	900	900	375	45.51	375	45.50	47.40	1.90	REFER TO IDM SD410 & SD 420
126	SEP	277892.934	5769135.103	900	900	375	45.72	375	45.71	47.63	1.92	REFER TO IDM SD410 & SD420 WITH BIKE SAFE GRATE
127	SEP	277893.792	5769143.410	600	900	375	45.93	375	45.90	47.62	1.72	REFER TO IDM SD405 & SD 430
						375	45.91					
128	JP	277873.950	5769145.839	600	900			375	46.12	47.71	1.59	REFER TO IDM SD405 & SD 420
130	JP	277974.438	5769133.536	600	900			375	46.84	48.61	1.77	REFER TO IDM SD405 & SD 420
131	SEP	277899.118	5768965.405	600	900	300.000	44.39	375	44.39	45.90	1.51	REFER TO IDM SD405 & SD430
131A	GJP	277903.425	5768964.801	900	900			300	44.65	46.38	1.73	REFER TO IDM SD410 & SD426 WITH BIKE SAFE GRATE
132	SEP	277897.684	5769034.519	600	900	300	44.94	375	44.89	46.25	1.36	REFER TO IDM SD405 & SD 430
132A	GJP	277901.992	5769033.915	600	900			300	45.06	46.40	1.34	REFER TO IDM SD405 & SD426 WITH BIKE SAFE GRATE
133	SEP	277908.264	5769109.992	600	900	375	45.52	375	45.48	47.13	1.65	REFER TO IDM SD405 & SD 430
						300	45.64					
133A	GJP	277912.566	5769109.350	600	900			300	45.81	47.18	1.37	REFER TO IDM SD405 & SD426 WITH BIKE SAFE GRATE
134	JP	277910.080	5769122.949	600	900	375	45.80	375	45.77	47.40	1.63	REFER TO IDM SD405 & SD 420
135	JP	277913.117	5769127.940	600	900	375	45.93	375	45.92	47.61	1.69	REFER TO IDM SD405 & SD420 INSTALL BIKE SAFE GRATE
136	SEP	277921.543	5769131.750	600	900			375	46.10	47.92	1.82	REFER TO IDM SD405 & SD430
154	SEP	277942.574	5768978.112	600	900	375	45.77	375	45.71	47.51	1.80	REFER TO IDM SD405 & SD 430
						375	45.75					
154A	JP	277948.630	5769021.311	600	900	375	46.00	375	45.95	47.75	1.80	REFER TO IDM SD405 & SD 430
						300	46.60					
154B	GJP	277956.089	5769024.728	900	900			300	46.58	48.22	1.64	REFER TO IDM SD410 & SD426 WITH CLASS D BIKE SAFE GRATE
155	SEP	277950.847	5769037.130	600	900	375	46.15	375	46.08	47.84	1.76	REFER TO IDM SD405 & SD 430
						375	46.08					
156	SEP	277962.132	5769116.545	900	900	375	46.63	375	46.61	48.27	1.66	REFER TO IDM SD410 & SD 430
						375	46.65					
157	SEP	277973.450	5769125.396	900	900			375	46.74	48.61	1.87	REFER TO IDM SD410 & SD 430
158	SEP	277923.867	5768903.730	600	900			375	45.03	46.69	1.66	REFER TO IDM SD405 & SD 430
159	SEP	277934.454	5768979.250	600	900			375	45.81	47.51	1.70	REFER TO IDM SD405 & SD 430
160	SEP	277942.727	5769038.269	600	900			375	46.14	47.83	1.69	REFER TO IDM SD405 & SD 430
161	SEP	277953.890	5769117.853	600	900			375	46.88	48.26	1.38	REFER TO IDM SD405 & SD 430

NOTE:
- ALL PIT LIDS TO BE REINFORCED FIBREGLASS CLASS C AS PER COGG DESIGN NOTE 13 UNLESS OTHERWISE STATED
- EP - END PIPE
- JP - JUNCTION PIT
- GP - GRATED PIT
- SEP - SIDE ENTRY PIT

AS-CONSTRUCTED SIGNATURES

SIGN ..... DATE 05/11/2025
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN ..... DATE 05/11/2025
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

AC1

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
2	PIT 42 UPDATE	MK	MK	MM	CS	04/04/25
1	PIT SIZING UPDATED	MK	MK	MM	CS	29/11/24
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK AND PIT 154A TYPE UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

Tomkinson
SURVEY ENGINEERING PLANNING PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE H 1:500 V 1:50 @ A1, 1:1,000 V 1:100 @ A3
H 5 0 5 10 15 20 25 H
V 0.5 0 0.5 1 1.5 2.0 2.5 V
LENGTHS ARE IN METRES

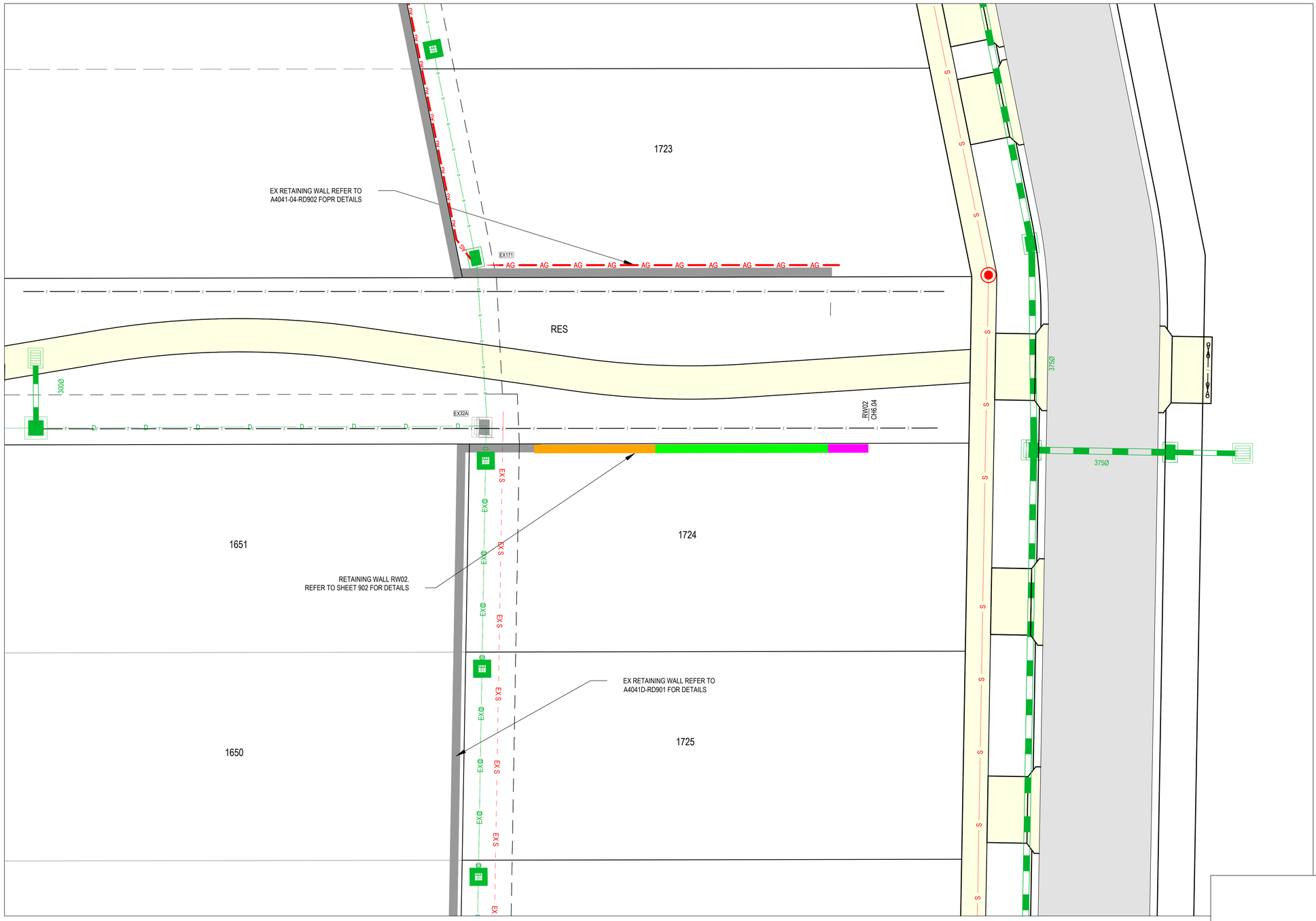
BEFORE YOU DIG www.byda.com.au

COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
PIT SCHEDULE
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD802
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMMGO-12DS01\A4041 - ASH ROAD LEOPOLD C-VILLAWOOD BENDIGO, LEOPOLD_986ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD800.DWG



AS-CONSTRUCTED SIGNATURES

05/11/2025
SIGN DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

Sidney Glanister 05/11/2025
SIGN DATE
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

MGA94 ZONE 55

Tomkinson
SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II
LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE 1:250 @ A1, 1:500 @ A3
10 0 10 20 30 40 50
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

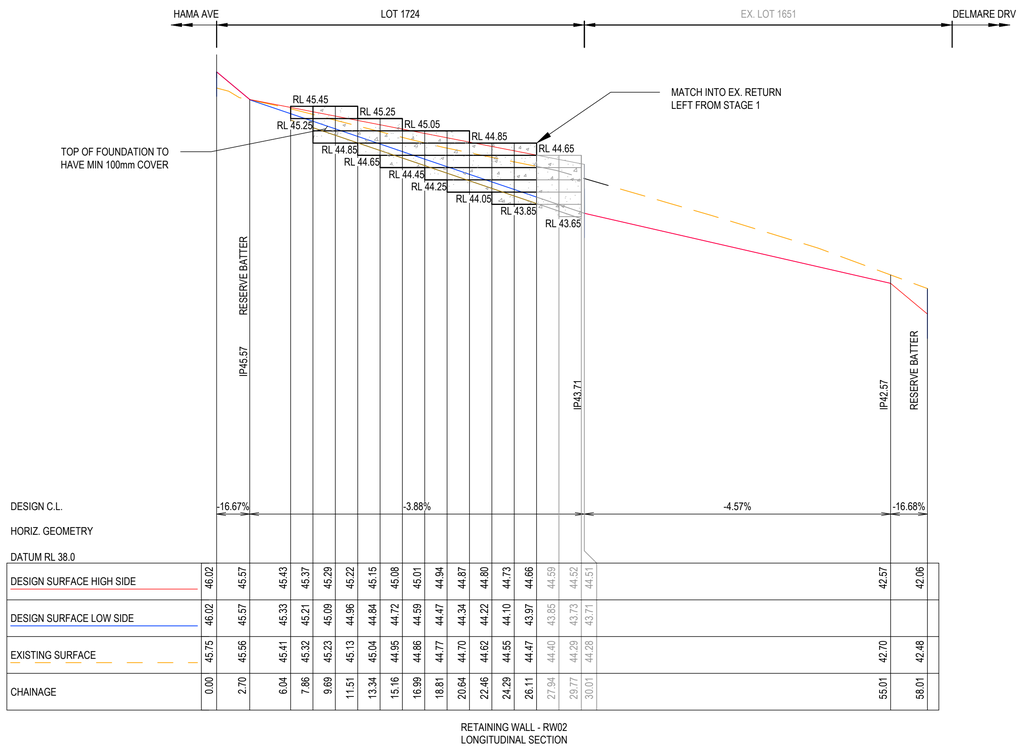
COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
RETAINING WALL LAYOUT PLAN

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

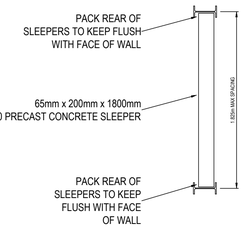
DWG STATUS: AS CONTRUCTED | PROJECT & DWG No: A4041D-05-RD900 | REV: AC2

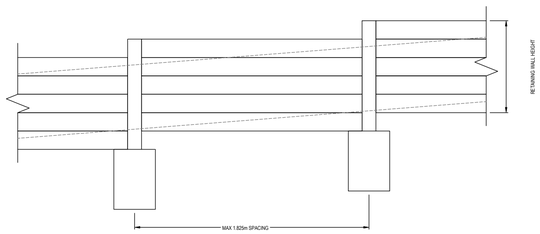
NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12\DATA\TOMK\BGO-12DS01\A4041 - ASH ROAD LEOPOLD C VILLAWOOD BENDIGO, LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD900.DWG



RETAINING WALL - RW02
LONGITUDINAL SECTION

SCALE H 1:500 V 1:100 @ A1, 1:1,000 V 1:200 @ A3
H 5 0 5 10 15 20 25 H
V 1 0 1 2 3 4 5 V
LENGTHS ARE IN METRES





TYPICAL RETAINING WALL LONGITUDINAL DETAIL

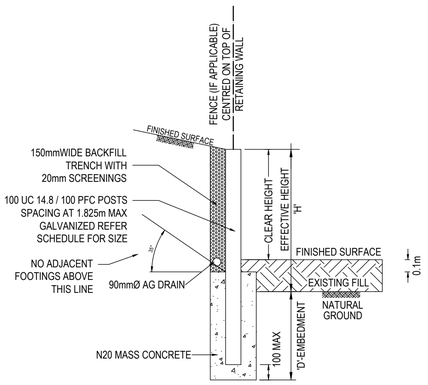
NOT TO SCALE

RETAINING WALL POST & EMBEDMENT SCHEDULE

EFFECTIVE HEIGHT 'H' (m)	DEPTH OF EMBEDMENT 'D' (m)		DIA OF HOLE (m)	COLUMN SIZE		AG DRAIN 100mmØ
	RC1	RC2		RC1	RC2	
0 - 0.4	0.90	0.90	0.45	100 UC 14.8	100 PFC	YES
0.4 - 0.8	1.20	0.90	0.45	100 UC 14.8	100 PFC	YES
0.8 - 1.0	1.50	1.20	0.45	100 UC 14.8	100 PFC	YES

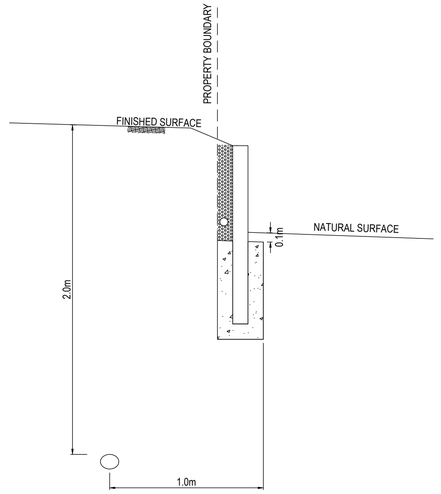
NOTES
1 RC1 = INTERNAL COLUMN; RC2 = EXTERNAL COLUMN
2 ALL WALLS TO HAVE 20mm SCREENING BACKFILL IN 150mm WIDE TRENCH
3 ALL SCREENING BACKFILL/AG DRAINS TO HAVE POSITIVE DRAINAGE CONNECTION
4 ALL SLEEPERS TO BE 200mm DEEP x 65mm WIDE 1800mm MAX LENGTH PRECAST CONCRETE AS SPECIFIED
5 POSTS TO BE AT 1.825m MAX CENTRES AND ANTI-RUST TREATED
6 FACE OF RETAINING WALL TO BE 1:20 MIN
7 EMBEDMENT DEPTH IS TO BE WHOLLY IN SOLID NATURAL GROUND
8 WALL IS NOT DESIGNED TO SUPPORT ANY ADJACENT STRUCTURES
9 WALLS IN EXCESS OF 1.0m TO BE CERTIFIED BY A STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION
10 REFER TO "RETAINING WALL DETAIL PLAN PREPARED BY SGP CONSULTING ENGINEERS REF 22-6681" WHEN CONSTRUCTING NEXT TO EXISTING/PROPOSED DRAINAGE

REFER STRUCTURAL DETAILS REFERENCE 22-6681 PREPARED BY SGP CONSULTING ENGINEERS P/L FOR FULL RETAINING WALL SPECS AND DETAILS.



TYPICAL RETAINING WALL SECTION

NOT TO SCALE



RETAINING WALL TYPICAL SECTION

NOT TO SCALE

AS-CONSTRUCTED SIGNATURES

05/11/2025
SIGN DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

Sidney Glanister 05/11/2025
SIGN DATE
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK UPDATED	MK	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE:0007966

Tomkinson
SURVEY ▸ ENGINEERING ▸ PLANNING ▸ PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE H 1:500 V 1:100 @ A1, 1:1,000 V 1:200 @ A3
H 5 0 5 10 15 20 25 H
V 1 0 1 2 3 4 5 V
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

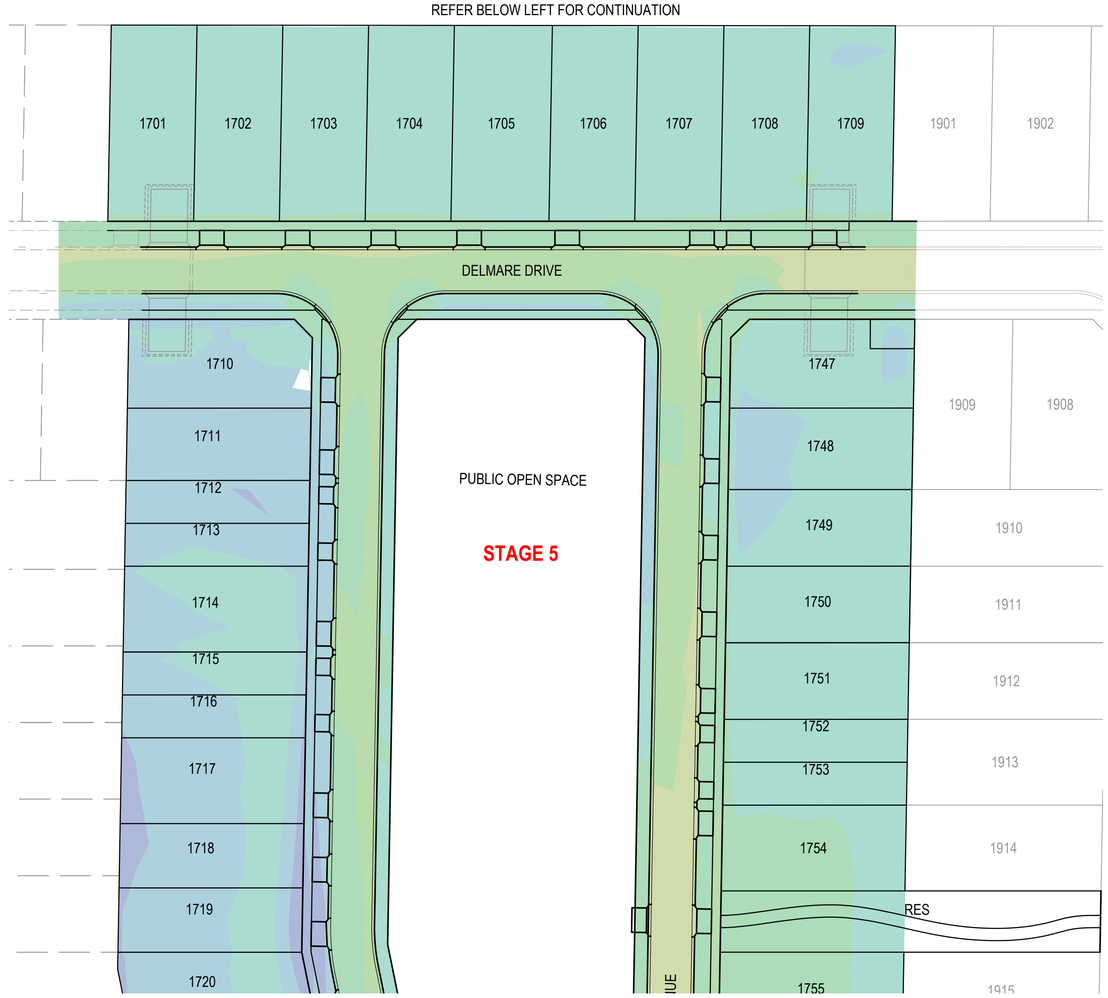
COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
RETAINING WALL LONGITUDINAL SECTIONS & DETAILS

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD901
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMKBGO-12DS01\A4041 - ASH ROAD LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_986ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD900.DWG



CUT & FILL		
LOWER VALUE	UPPER VALUE	COLOUR
-3.5 to -2.5m		
-2.5 to 2.0m		
-2.0 to -1.5m		
-1.5 to -1.0m		
-1.0 to -0.6m		
-0.6 to -0.3m		
-0.3 to 0.1m		
0.1 - 0.3m		
0.3 - 0.6m		
0.6 - 1.0m		
1.0 - 1.5m		
1.5 - 2.0m		
2.0 - 2.5m		

NOTE:
DEPTH RANGE CUT AND FILL ARE CALCULATED ALLOWING 200mm STRIPPING. VOLUMES HAVE BEEN CALCULATED FROM DESIGN SURFACE AGAINST STRIPPING WITHIN LOTS AND BOXING SURFACE AGAINST STRIPPING WITHIN ROAD RESERVE.

AS-CONSTRUCTED SIGNATURES

05/11/2025
SIGN DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

05/11/2025
SIGN DATE
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	AUTH	DATE
AC2	AS CONSTRUCTED, BOUNDARY LEVELS AT INTERSECTIONS SHOWN	MK	SP	MM	CS	30/04/26
AC1	AS CONSTRUCTED	MK	SP	MM	CS	05/11/25
1	LOT 1736 VC MOVED TO SOUTHERN SIDE OF LOT	MK	MK	MM	CS	04/04/25
0	ISSUED FOR CONSTRUCTION	MK	MK	MM	CS	19/11/24
B	TITLE BLOCK UPDATED	NC	MK	MM	CS	07/10/24
A	PRELIMINARY ISSUE	NC	MK	MM	-	19/03/24

RPE: 0007966

MGA94 ZONE 55

Tomkinson
SURVEY ENGINEERING PLANNING PROJECT MANAGEMENT
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788
ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary II LEOPOLD

© COPYRIGHT
THE INFORMATION CONTAINED ON THIS DRAWING IS THE INTELLECTUAL PROPERTY OF TOMKINSON. COPYING OR USING THIS DRAWING IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF TOMKINSON INFRINGES COPYRIGHT

SCALE 1:500 @ A1, 1:1000 @ A3
10 0 10 20 30 40 50
LENGTHS ARE IN METRES

BEFORE YOU DIG www.byda.com.au

COMPASS ASSURANCE ISO 9001 QUALITY

ESTUARY II - STAGE 05 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
BULK EARTHWORKS

AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS: AS CONTRUCTED
PROJECT & DWG No: A4041D-05-RD902
REV: AC2

NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THIS PURPOSE.
PLOT DATE: 30/04/2026 FILE: C:\12D\DATA\TOMK\BG0-12DS01\A4041 - ASH ROAD LEOPOLD\C-VILLAWOOD BENDIGO, LEOPOLD_986\ENGINEERING\CAD\CURRENT\A4041 STAGE 4\ROAD AND DRAINAGE\A4041D 04-RD900.DWG