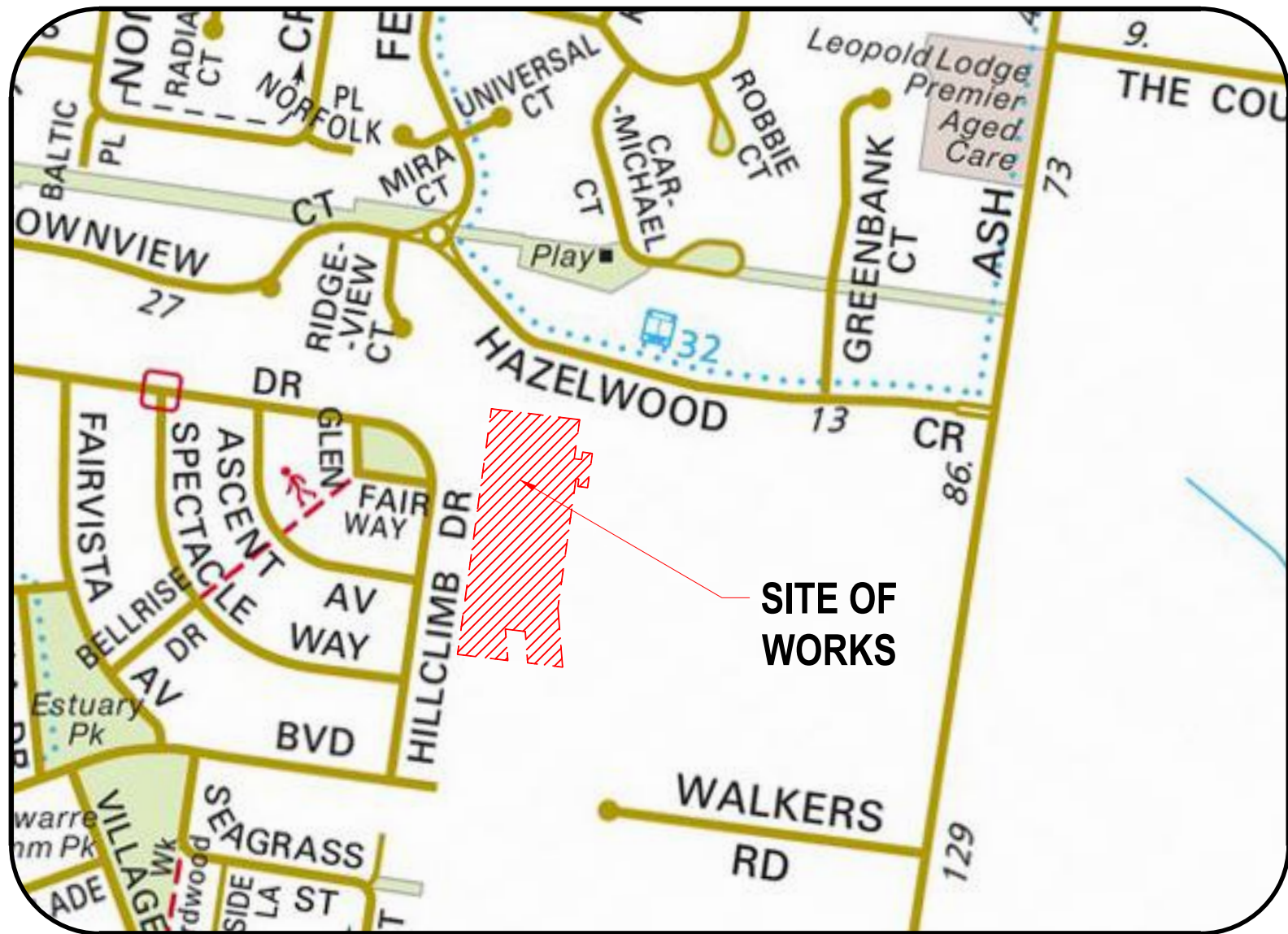


ESTUARY II - STAGE 04

ROAD AND DRAINAGE PLAN

ASH ROAD, LEOPOLD



LOCALITY PLAN
MELWAYS REF: 685 H3
SCALE 1:5000

GENERAL NOTES

PRIOR TO THE COMMENCEMENT OF WORKS

- THE CONTRACTOR MUST NOTIFY THE RELEVANT AUTHORITY 7 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE RELEVANT WORKS.
- 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.
- 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.
- 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.
- 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.
- NO WORK IS TO COMMENCE BEFORE THE CONTRACTOR HAS ASCERTAINED WHAT UNDERGROUND SERVICES ARE PRESENT.
- 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.
- IF THESE SAFETY PROCEDURES CANNOT BE COMPLIED WITH THEN NO WORK IS TO BE UNDERTAKEN WITHOUT PERMISSION FROM THE UTILITY COMPANY.
- 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:
 - OCCUPATIONAL HEALTH & SAFETY PROCEDURES
 - SITE STAFFING INCLUDING CONTACT DETAILS
 - TRAFFIC MANAGEMENT PLAN
 - ENVIRONMENTAL MANAGEMENT PLAN
 - QUALITY ASSURANCE DETAILS (FOR QA CERTIFIED CONTRACTORS)
 - CONSTRUCTION PROGRAM

CONSTRUCTION SETOUT

- ALL LEVELS ARE TO A.H.D. AND ARE REFERENCED TO THE T.B.M. INDICATED.
- 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.

- 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.
- IF USING GNSS \ GPS TO SETOUT FOR CONSTRUCTION PLEASE NOTE:
 - GNSS HAS REDUCED VERTICAL PRECISION COMPARED TO TRADITIONAL SURVEY METHODS.
 - ONLY USE A SINGLE POINT CALIBRATION FOR THE VERTICAL THEN TEST TO AT LEAST 1 OTHER STATED TBM BEFORE PROCEEDING.
 - IF YOU HAVE ANY QUERIES OR CONCERNS CONTACT THE CONSULTING SURVEYOR.

SITE MANAGEMENT DURING CONSTRUCTION

- THE SUPERINTENDENT IS RESPONSIBLE FOR THE DESIGN AND MANAGEMENT OF THE CONSTRUCTION WORKS. ANY PROBLEMS ARISING DURING CONSTRUCTION SHALL BE DIRECTED TO THE SUPERINTENDENT.
- 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.
- 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.
- 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 HEALTH AND SAFETY ACT, WORKSAFE VICTORIA REQUIREMENTS INCLUDING COMPLIANCE CODES.
- 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.
- THE CONTRACTOR SHALL TAKE THE UTMOST CARE TO PRESERVE EXISTING TREES. NO TREES SHALL BE REMOVED WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT.
- THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO THE ALLOTMENTS MUST BE MADE GOOD.
- 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.
- DISPOSAL OF EXCESS SPOIL TRUCK ROUTE AND DISPOSAL LOCATION ARE TO BE APPROVED BY THE MUNICIPAL ENGINEERING DEPARTMENT.
- 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.

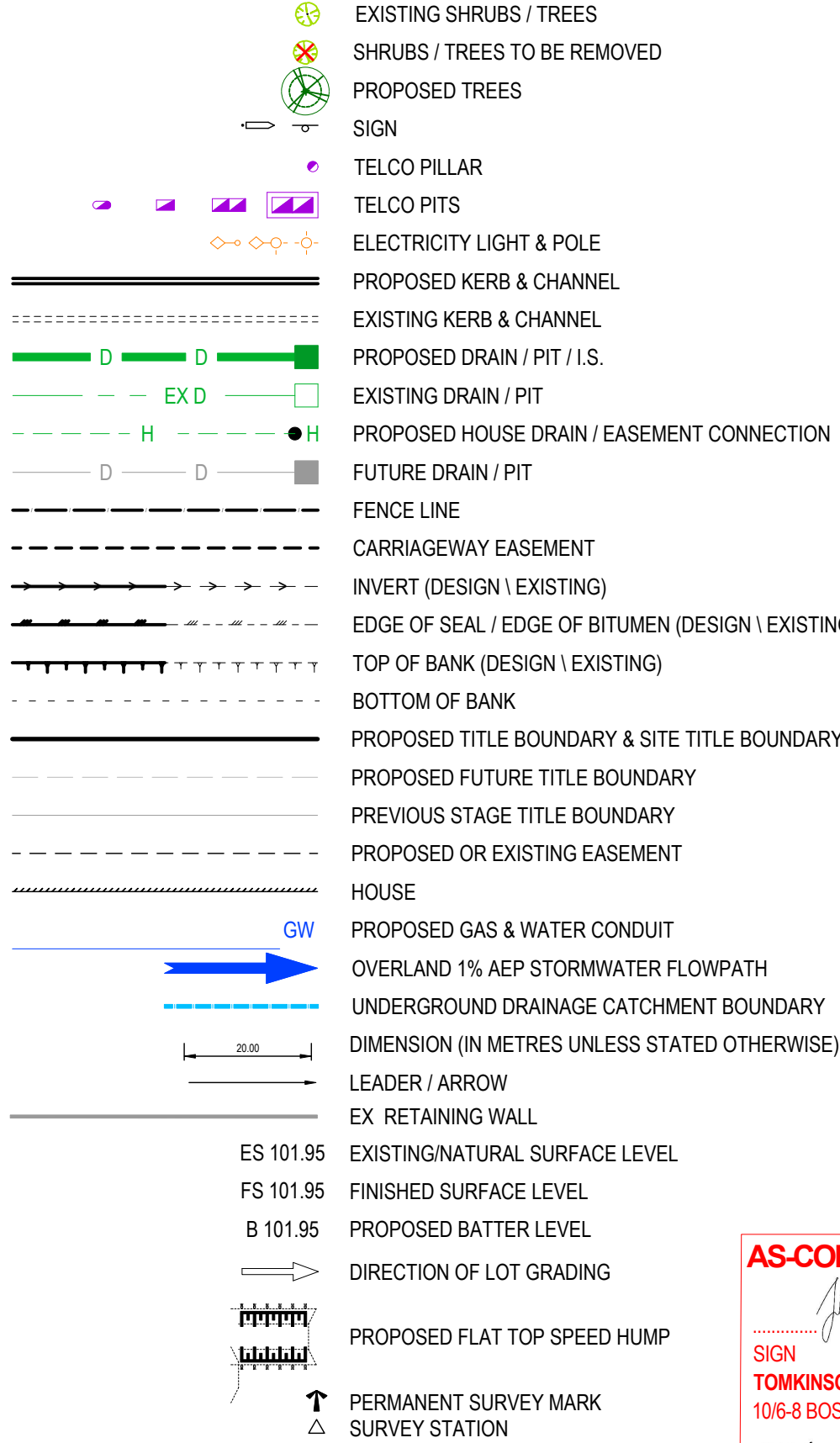
PROTECTION OF VEGETATION

- NO WORKS ARE TO BE UNDERTAKEN WITHIN THE DRIP ZONE (CANOPY) OF AN EXISTING TREE UNLESS APPROVED BY THE RESPONSIBLE AUTHORITY.

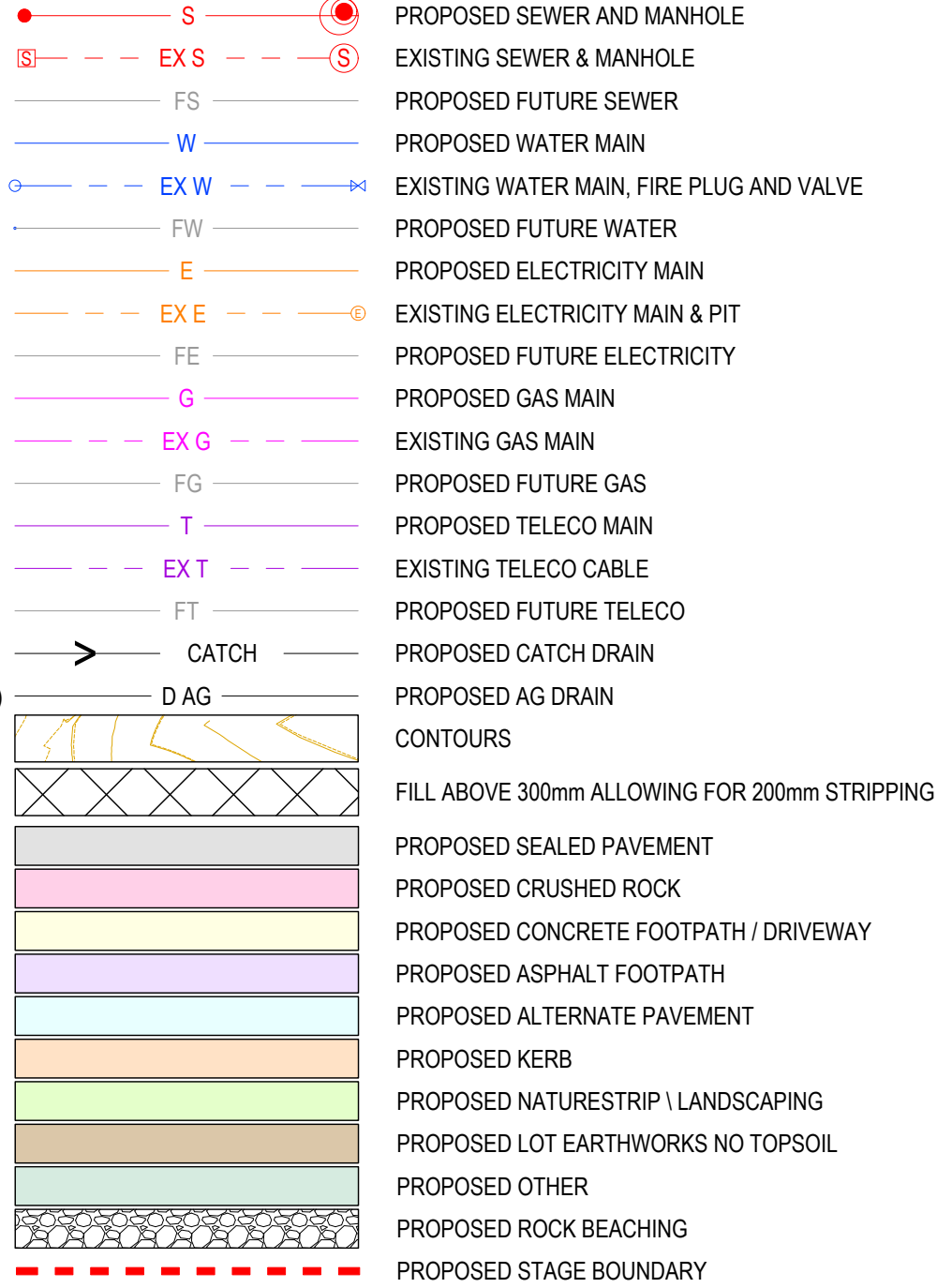
EARTHWORKS

- ALL EARTHWORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH AS 3798 (2007) - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
- ALL FILLING WITHIN AREAS OF PROPOSED ROAD PAVEMENT IS TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD.
- ALL FILLING WITHIN OTHER AREAS IS TO ACHIEVE A MINIMUM COMPACTION OF 95% STANDARD.
- 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 IS 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, ITS 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.
- THE SUPERINTENDENT IS TO BE ADVISED OF ANY FILLING THAT ACHIEVES A DEPTH OF 300mm OR GREATER.
- 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.
- 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.
- 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.
- 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.
- RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE SUPERINTENDENT.
- ALL DISTURBED/EXPOSED AREAS MUST BE HYDROMULCHED AT THE COMPLETION OF WORKS.
- ALL KERB & CHANNEL IS B2 (IDM SD100) UNLESS STATED OTHERWISE.

ROAD WORKS AND FOOTPATHS



LEGEND



AS-CONSTRUCTED SIGNATURES

SIGN *[Signature]* DATE 23/05/25
TOMKINSON GROUP
106-8 BOSTON RD, TORQUAY 3228
Sidney Glenister
SIGN *[Signature]* DATE 23/05/25
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

TABLE OF OFFSETS FOR SERVICES

STREET NAME	GAS	DW	TELCO	P2 PITS	UG ELEC	LIGHT POLE	BOK	SEWER
DELMARE DRIVE - NTH-STH	2.2m EST	2.7m 5.7m EST	1.80m WST	*1.65m EST	2.40m WST	1.00m BOK	4.20W / 4.20E	1.0m EST/ WST
DELMARE DRIVE - EST-WST	2.2m STH	2.7m 5.7m STH	1.80m NTH	*1.65m STH	2.40m NTH	1.0m BOK	4.20N/4.20mS	1.0m NTH
ATHENA PLACE	2.1m WST	2.7m WST	2.7m EST	*1.65m EST	2.1m EST	1.00m BOK	2.80W / 0.70E	1.0m WST

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

- ALL ASPHALT ROAD SEALS ARE TO BE 10mm TYPE 'N' UNLESS STATED OTHERWISE.
- ALL KERB RADII ARE TO LIP OF KERB UNLESS STATED OTHERWISE.
- FOOTPATH BASE THICKNESS VARIES FROM 100mm TO EXCAVATED NSL. AND TO BE CONSTRUCTED AS PER THE IDM SD205 STANDARD DRAWINGS AND IN ACCORDANCE WITH COGG DESIGN NOTE 12.
- TGSs WHERE REQUIRED ARE TO BE INSTALLED IN ACCORDANCE WITH COGG DESIGN NOTE 11.
- ALL NEW INTERSECTIONS ARE TO HAVE STREET SIGNS INSTALLED TO COUNCIL STANDARDS IRRESPECTIVE OF WHETHER THEY ARE DETAILED ON THE ENGINEERING PLANS OR NOT.
- AT ALL TEMPORARY STAGE BOUNDARY TERMINATIONS TO ROADS THE CONTRACTOR IS TO INSTALL A D4-5 HAZARD SIGN.
- 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/M² (28MPa), WITH FINISHES AS OUTLINED IN THE DESIGN NOTE
- TRANSITIONS BETWEEN DIFFERENT KERB TYPES TO BE OVER 3.0m MINIMUM, IF IT CANNOT BE ACHIEVED AT A PRAM CROSSING OR DRIVEWAY CROSSOVER.
- ROAD PAVEMENT COMPACTION & TESTING REQUIREMENTS ARE AS PER THE IDM.
- 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

- ALL EASEMENT DRAINAGE PIPES ARE 1.0m OFFSET TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.
- ALL EASEMENT DRAINAGE PITS ARE TO BE 1.0m PAST TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.
- 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.
- ALL STORMWATER AND CONDUIT TRENCHES UNDER ROAD PAVEMENT, KERB & CHANNEL AND FOOTPATH OR DIRECT OUT OF PIT SHALL BE BACKFILLED IN ACCORDANCE WITH THE IDM UNLESS STATED OTHERWISE.
- REFER TO THE CERTIFIED PLAN OF SUBDIVISION FOR ALL EASEMENT WIDTHS, DO NOT SCALE FROM DRAWING.
- STORMWATER DRAINS SHALL BE RCP OR HDPE (PER IDM CL16.10) UNLESS OTHERWISE SHOWN.
- 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.
- ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
- ALL CONDUIT LOCATIONS ARE TO BE STAMPED IN THE CONCRETE KERBING.

- CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28 DAYS.
- ALL GRATES ARE TO BE HOT DIPPED GALVANISED.
- 100mm DEEP CATCH DRAINS TO BE CONSTRUCTED ALONG ALL EASEMENT DRAINAGE AND DIRECTED TO LEGAL POINT OF DISCHARGE.
- STEP IRONS ARE NOT TO BE INSTALLED IN ANY DRAINAGE PIT. ACCESS LIDS ARE TO BE LOCATED TO ENABLE REASONABLE ACCESS.
- ALL HOUSE DRAIN CONNECTIONS TO REINFORCED CONCRETE PIPES ARE TO UTILISE "CONCONNECT" OR COUNCIL APPROVED EQUIVALENT PRODUCTS TO AVOID PIPE PROTRUSIONS INTO THE LARGER PIPE.
- REFER ROAD LAYOUT PLANS FOR WATER & GAS ROAD SERVICE CONDUIT LOCATIONS. INTERSECTION DETAILS PLANS DO NOT SHOW CONDUITS.
- 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

- CONSTRUCTION HOLD POINTS ARE TO BE IN ACCORDANCE WITH THE IDM

EMERGENCY CONTACTS

- 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 688 208
COMMUNICATIONS	TELSTRA	1800 653 935
SEWER & WATER	BARWON WATER	1300 656 007
- 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.

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1 DRAWING LIST REVISIONS UPDATED	MK MK MM CS 28/10/24
2 TITLE BLOCK UPDATED	MK MK MM CS 01/10/24
A PRELIMINARY ISSUE	NC MK MM 16/05/24
REV	DES DWG CHK AUTH DATE

RPE-0007566

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ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
LOCALITY, GENERAL NOTES AND SHEET INDEX PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PROJECT & DWG No: REV:
AS CONSTRUCTED A4041D-04 - RD000 AC1

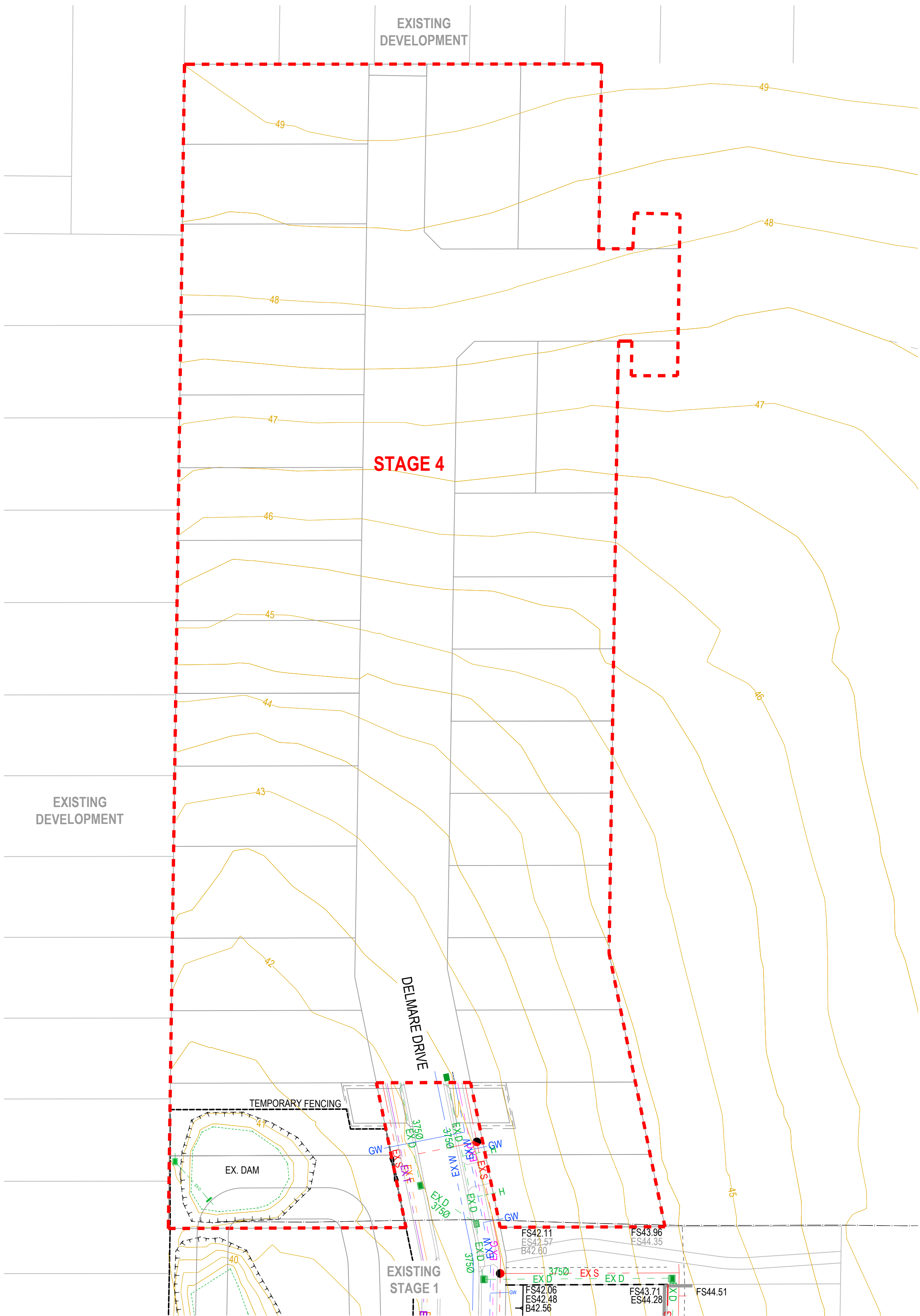
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AS-CONSTRUCTED SIGNATURES

 23/05/25
SIGN DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228
 23/05/25
SIGN DATE
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



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B TITLE BLOCK UPDATED
A PRELIMINARY ISSUE

MK SP MM CS 23/05/25
MK MK MM CS 01/10/24
NC MK MM 16/05/24

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SCALE 1:500 @ A1, 1:1,000 @ A3
LENGTHS ARE IN METRES



ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
EXISTING CONDITIONS

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

DWG STATUS:

PROJECT & DWG No:

AS CONTRUCTED A4041D-04 -RD001

REV:

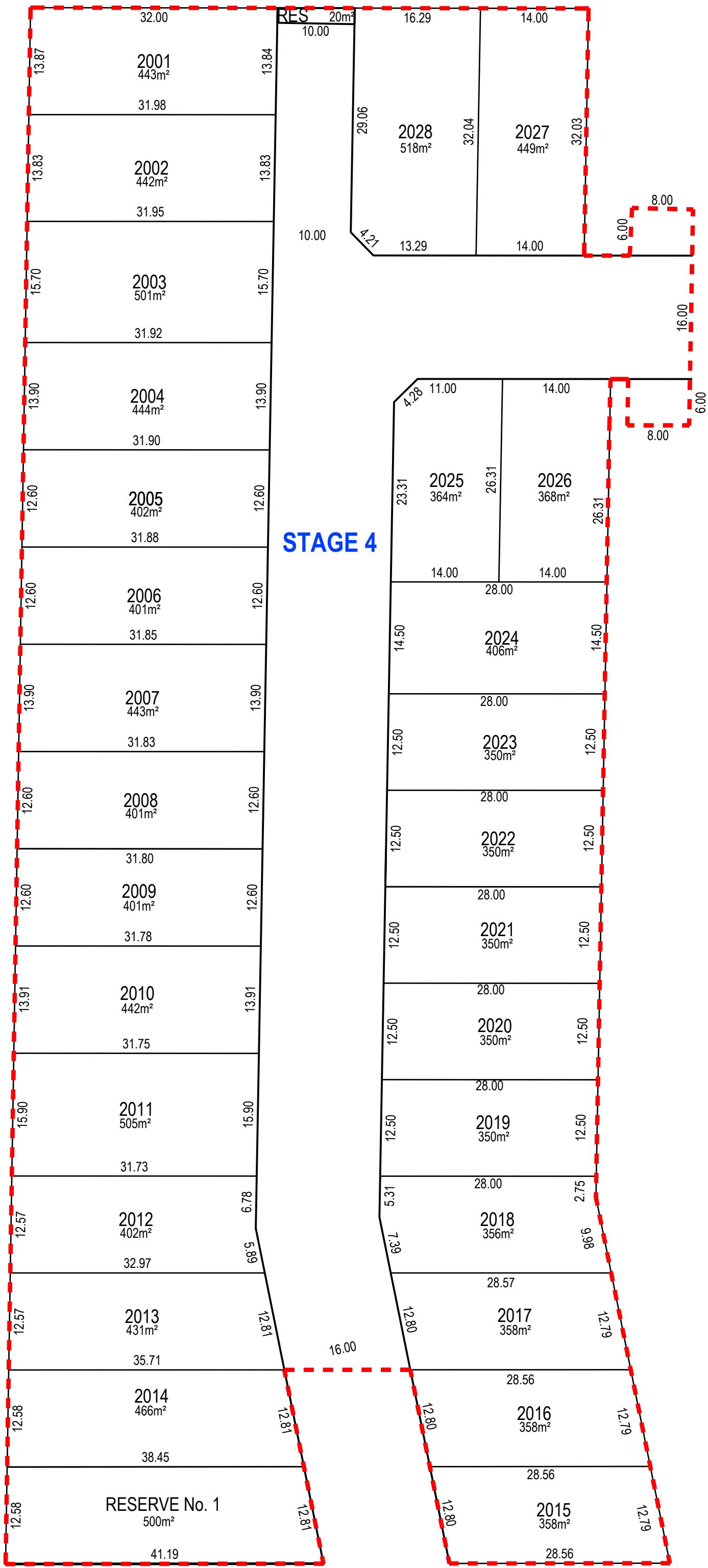
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NOTE:
REFER TO PLANS OF SUBDIVISION
PS 848071W & PS 848072U
FOR MORE INFORMATION

AS-CONSTRUCTED SIGNATURES

SIGN	DATE
	23/05/25
TOMKINSON GROUP 10/6-8 BOSTON RD, TORQUAY 3228	
SIGN	DATE
	23/05/25
DRAPER'S CIVIL CONTRACTING PTY LTD 54-56 LEATHER ST, BREAKWATER VIC 3219	



AC1 AS CONSTRUCTED	MK	SP	MM	CS	23/05/25
B TITLE BLOCK AND DRAWING NAME UPDATE	MK	MK	MM	CS	01/10/24
A PRELIMINARY ISSUE	NC	MK	MM		16/05/24
REV	REVISION				DES DWG CHK AUTH DATE

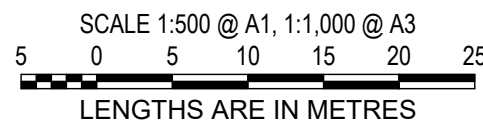


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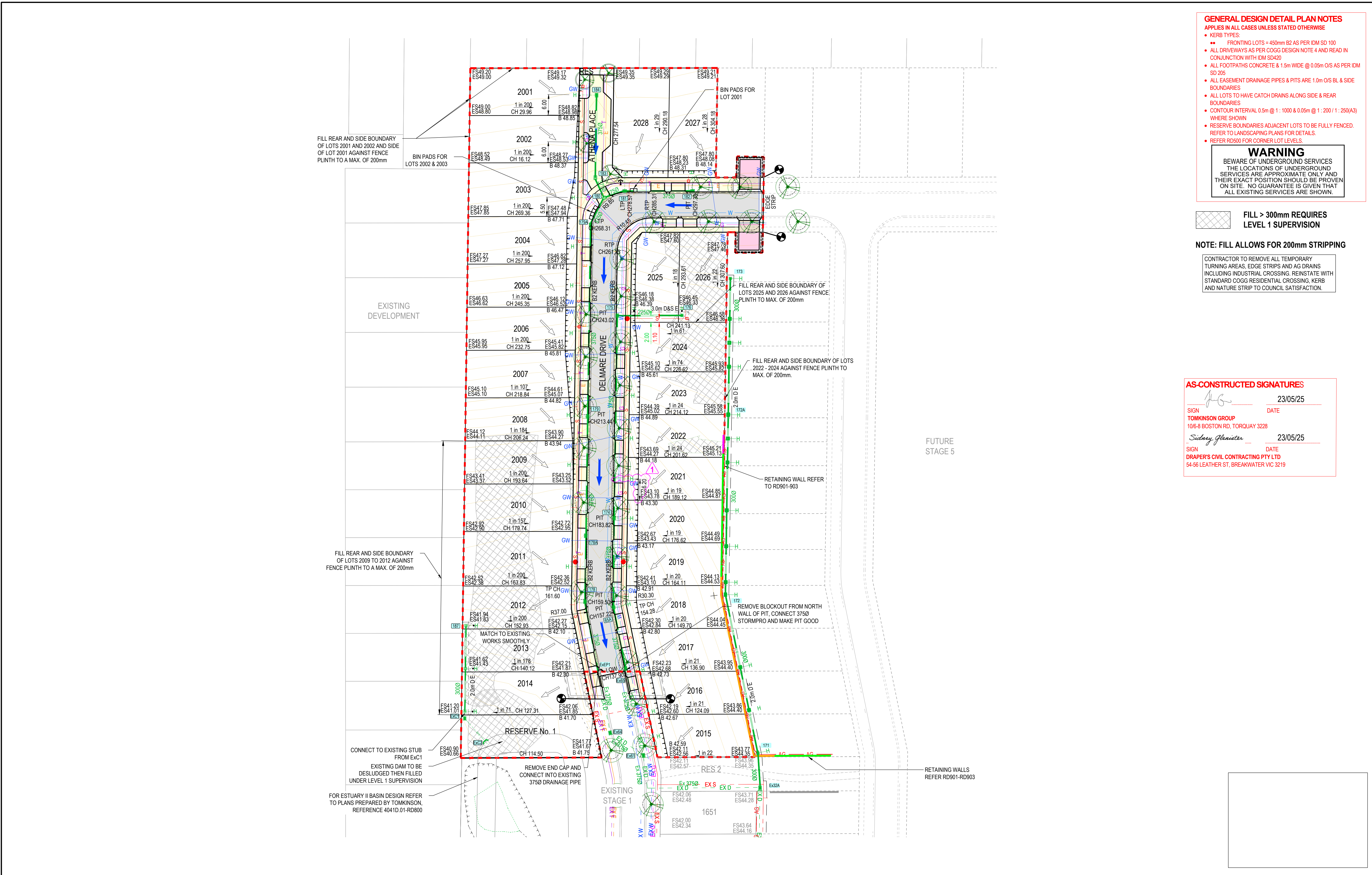


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ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
LOT DIMENSION PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PROJECT & DWG No: REV:
AS CONSTRUCTED A4041D-04-RD100 AC1

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PLOT DATE: 26/05/2025 FILE: C:\12\DATA\TOM\K80-12DS01\44041 - ASH ROAD, LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_988ENGINEERING\CAD\CURRENT\44041 STAGE 5 ROAD AND DRAINAGE\44041D-05-RD100.DWG



GENERAL DESIGN DETAIL PLAN NOTES
APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- KERB TYPES:
 - FRONTING LOTS = 450mm B2 AS PER IDM SD 100
- ALL DRIVEWAYS AS PER COGG DESIGN NOTE 4 AND READ IN CONJUNCTION WITH IDM SD420
- ALL FOOTPATHS CONCRETE & 1.5m WIDE @ 0.05m O/S AS PER IDM SD 205
- 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.
- REFER RD500 FOR CORNER LOT LEVELS.

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.

 **FILL > 300mm REQUIRES LEVEL 1 SUPERVISION**

NOTE: FILL ALLOWS FOR 200mm STRIPPING

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

AS-CONSTRUCTED SIGNATURES

	23/05/25
SIGN	DATE
TOMKINSON GROUP 10/6-8 BOSTON RD, TORQUAY 3228	
	23/05/25
SIGN	DATE
DRAPER'S CIVIL CONTRACTING PTY LTD 54-56 LEATHER ST, BREAKWATER VIC 3219	

<p>AC1 AS CONSTRUCTED</p> <p>1 RETAINING WALL LENGTH REDUCED, LOT 2020 HC OFFSET AMENDED</p> <p>B TITLE BLOCK UPDATED</p> <p>A PRELIMINARY ISSUE</p>	<p>MK SP MM CS 23/05/25</p> <p>MK MK MM CS 28/10/24</p> <p>MK MK MM CS 01/10/24</p> <p>NC MK MM 16/05/24</p>	<p>REV</p> <p>REVISION</p> <p>DES DWG CHK AUTH DATE</p>	<p>RPE-0007566</p> <p></p> <p>MGSA4 ZONE 55</p>	<p> Tomkinson</p> <p>SURVEY • ENGINEERING • PLANNING • PROJECT MANAGEMENT</p> <p>10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788</p> <p>ABN 11 103 336 358 WWW.TOMKINSON.COM</p>	<p></p> <p>LEOPOLD 00</p>	<p>© COPYRIGHT</p> <p>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</p>	<p>SCALE 1:500 @ A1, 1:1,000 @ A3</p> <p>5 0 5 10 15 20 25</p> <p>LENGTHS ARE IN METRES</p> <p></p> <p></p>	<p>ESTUARY II - STAGE 04 PP-729-2021</p> <p>ASH ROAD, LEOPOLD</p> <p>ROAD AND DRAINAGE LAYOUT PLAN</p> <p>AUTHORITY: CITY OF GREATER GEELONG</p> <p>CLIENT: ASH ROAD LEOPOLD PTY LTD</p> <p>DWG STATUS: PROJECT & DWG No: REV: A4041D-04 - RD200 AC1</p>
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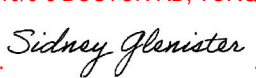
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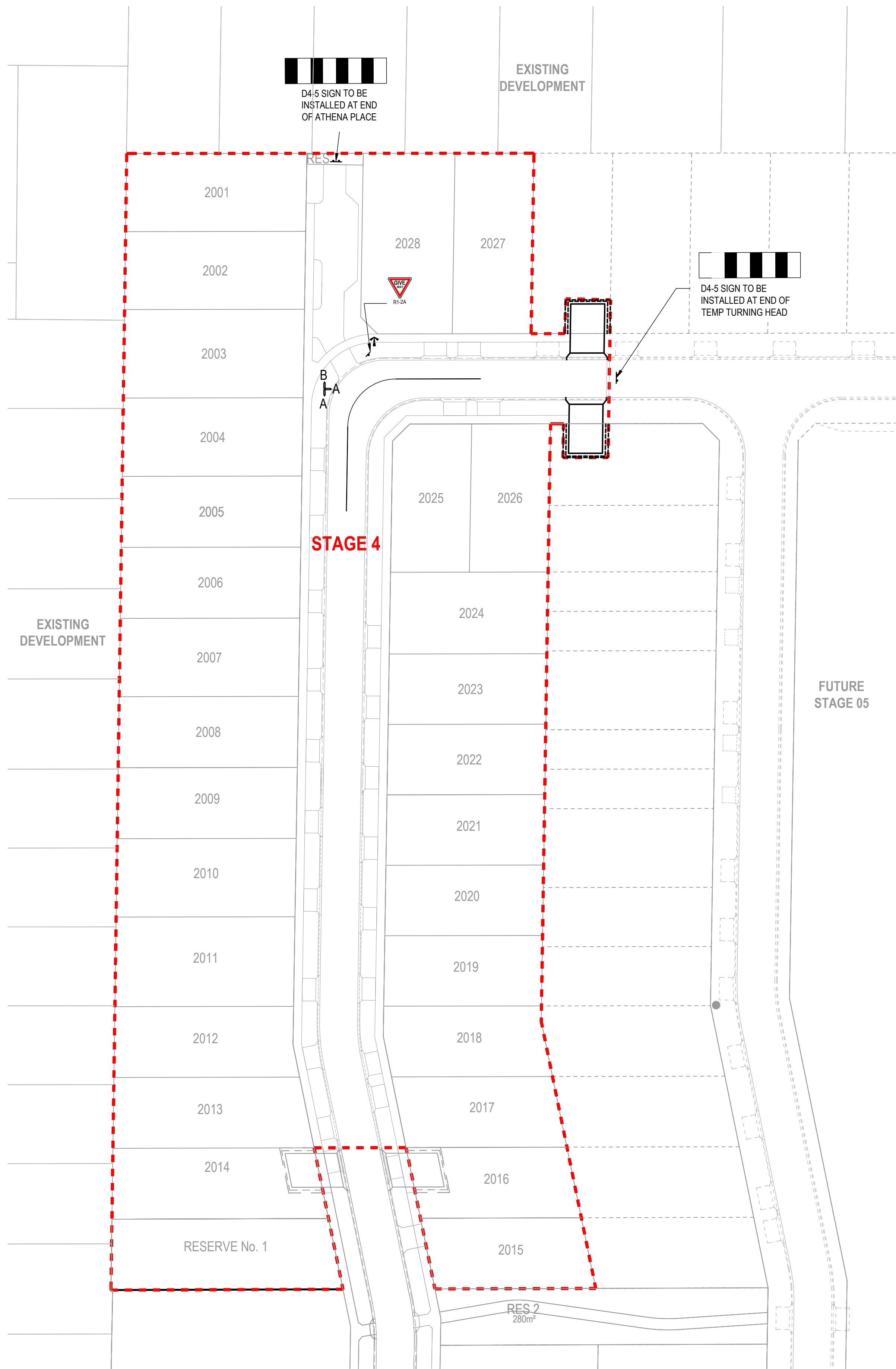
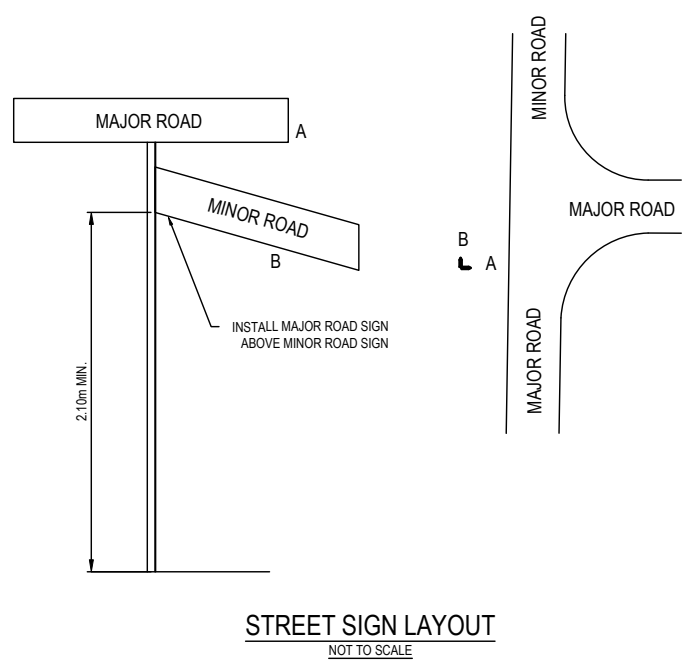
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ROAD SIGN SCHEDULE		
TYPE	SIGN NAME	QTY
D4-5	TEMPORARY END OF ROAD	2
R1-2 A	GIVE WAY	1
G5 SERIES	STREET NAME	1

STREET SIGN SCHEDULE		
SIGN	STREET NAME	QTY
D4-5	DELMARE DR	2
R1-2 A	ATHENA PL	1

AS-CONSTRUCTED SIGNATURES

 23/05/25
SIGN DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228
 23/05/25
SIGN DATE
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219



SIGNAGE & LINEMARKING NOTES:

- 90° BENDS TO HAVE CENTRE LINEMARKING WITH RRPMS AT MAX 6m SPACING.
- RRPMS TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL. 2.
- ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.
- ALL SIGNS AND LINEMARKING TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2 - SIGNS AND LINEMARKINGS.
- ALL SIGN POSTS TO BE SLEEVED IN ACCORDANCE WITH COGG SD CGG710 - SIGN POSTS.
- ALL LINEMARKINGS TO BE THERMOPLASTIC PERMANENT PAINT.
- 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.

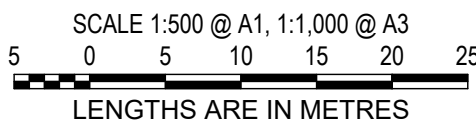
AC1 AS CONSTRUCTED	MK	SP	MM	CS	23/05/25
B TITLE BLOCK UPDATED	MK	MK	MM	CS	01/10/24
A PRELIMINARY ISSUE	NC	MK	MM		16/05/24
REV	DES	DWG	CHK	AUTH	DATE



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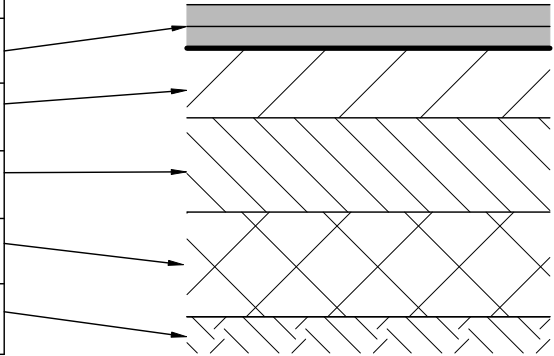
ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PROJECT & DWG No: AC1
AS CONSTRUCTED A4041D-04 - RD300

REV:

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PLOT DATE: 26/05/2025 FILE: C:\12\DATA\TOM\K80-12DS01\44041 - ASH ROAD, LEOPOLD C-VILLAWOOD BENDIGO, LEOPOLD_388ENGINEERING\CAD\CURRENT\44041 - STAGE 04 ROAD AND DRAINAGE\44041D-05-RD300.DWG

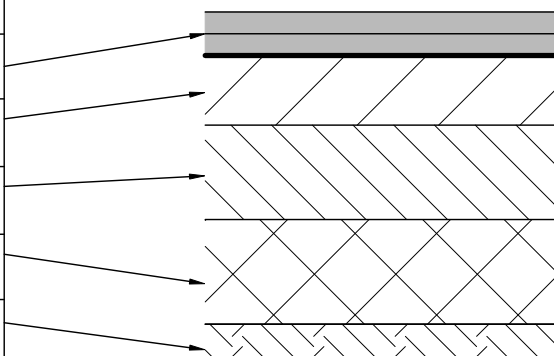
DELMARE DRIVE NORTH - SOUTH SECTION

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

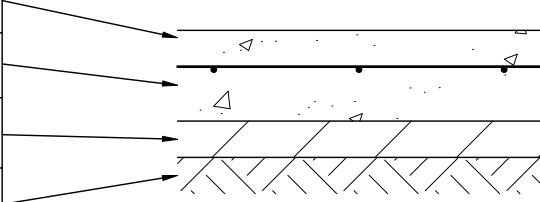


DELMARE DRIVE EAST - WEST SECTION

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

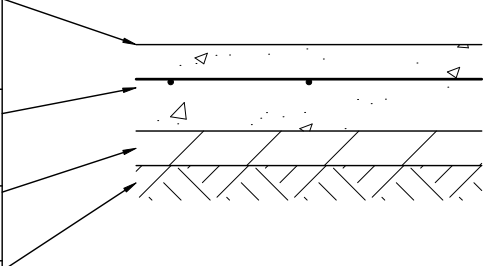


CONCRETE FOOTPATH, SHARED PATH PAVEMENT AND DRIVEWAY DETAILS (IDM SD 205) & COGG DESIGN NOTE 12		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
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

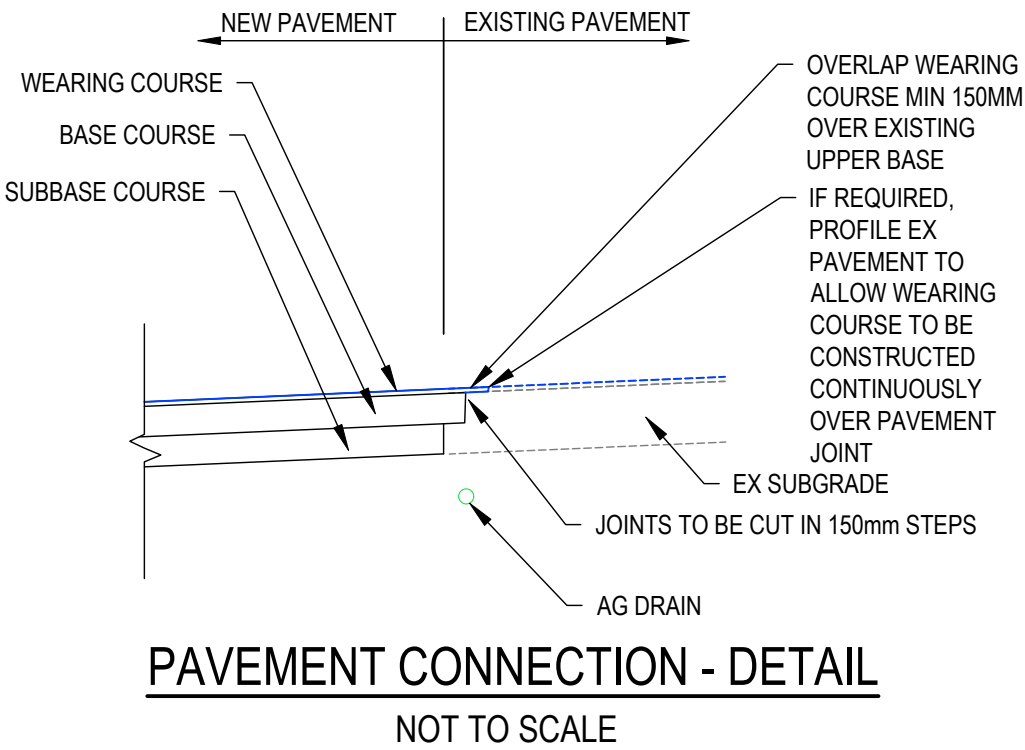
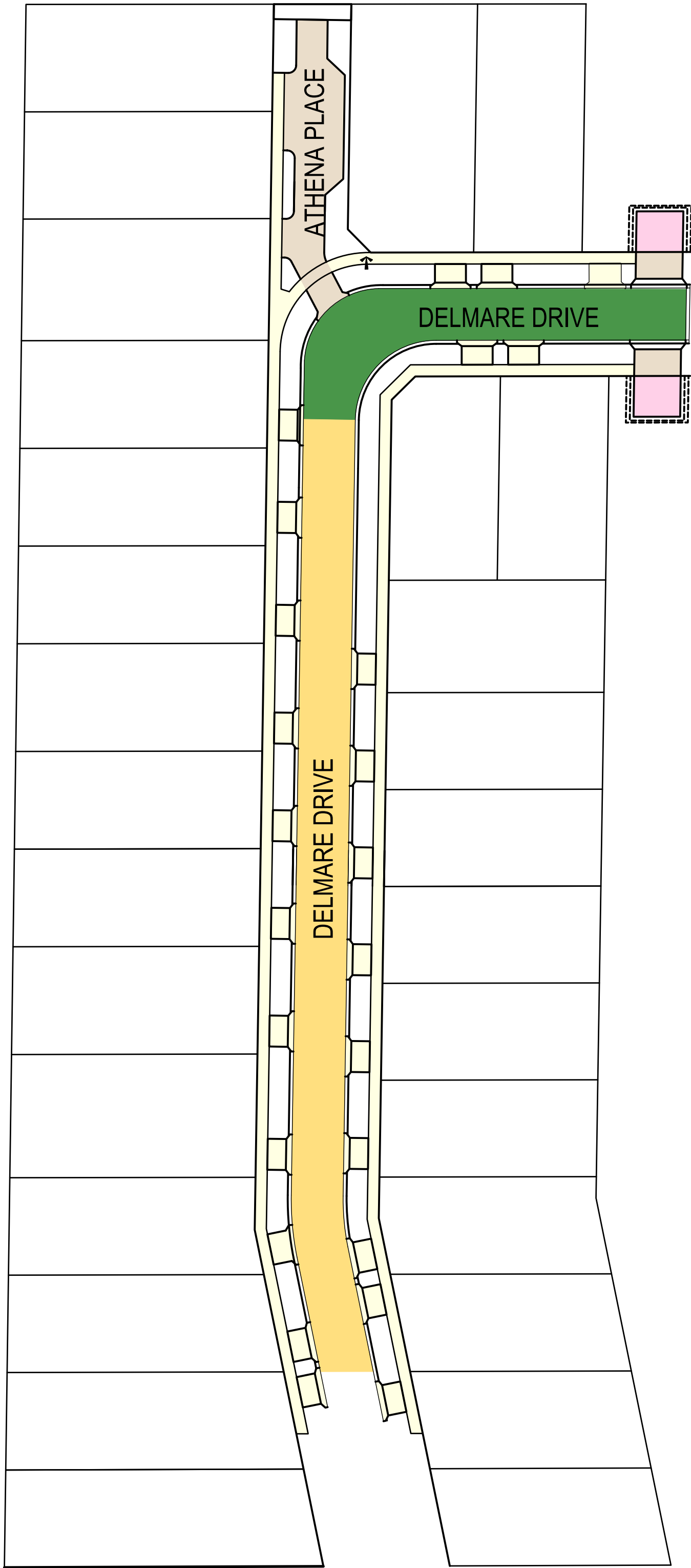


ATHENA PLACE

REINFORCED CONCRETE PAVEMENT		
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	150	JRCP REINFORCED WITH SL72 MESH. MIN STRENGTH 32MPa
3 BASE	150	20mm NOM. SIZE 5% CTCR
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE 6 BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT



GRAVEL PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 BASE COURSE	250	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK



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 *[Signature]* DATE 23/05/25
TOMKINSON GROUP
106-8 BOSTON RD, TORQUAY 3228
SIGN *[Signature]* DATE 23/05/25
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

- 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.

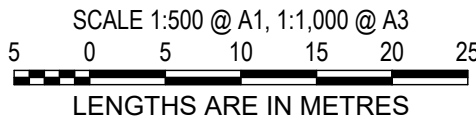
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B TITLE BLOCK UPDATED ATHENA CONCRETE STRENGTH AMENDED	MK MK MM CS 01/10/24
A PRELIMINARY ISSUE	NC MK MM 19/03/24
REV	REVISION
DES	DWG CHK AUTH DATE



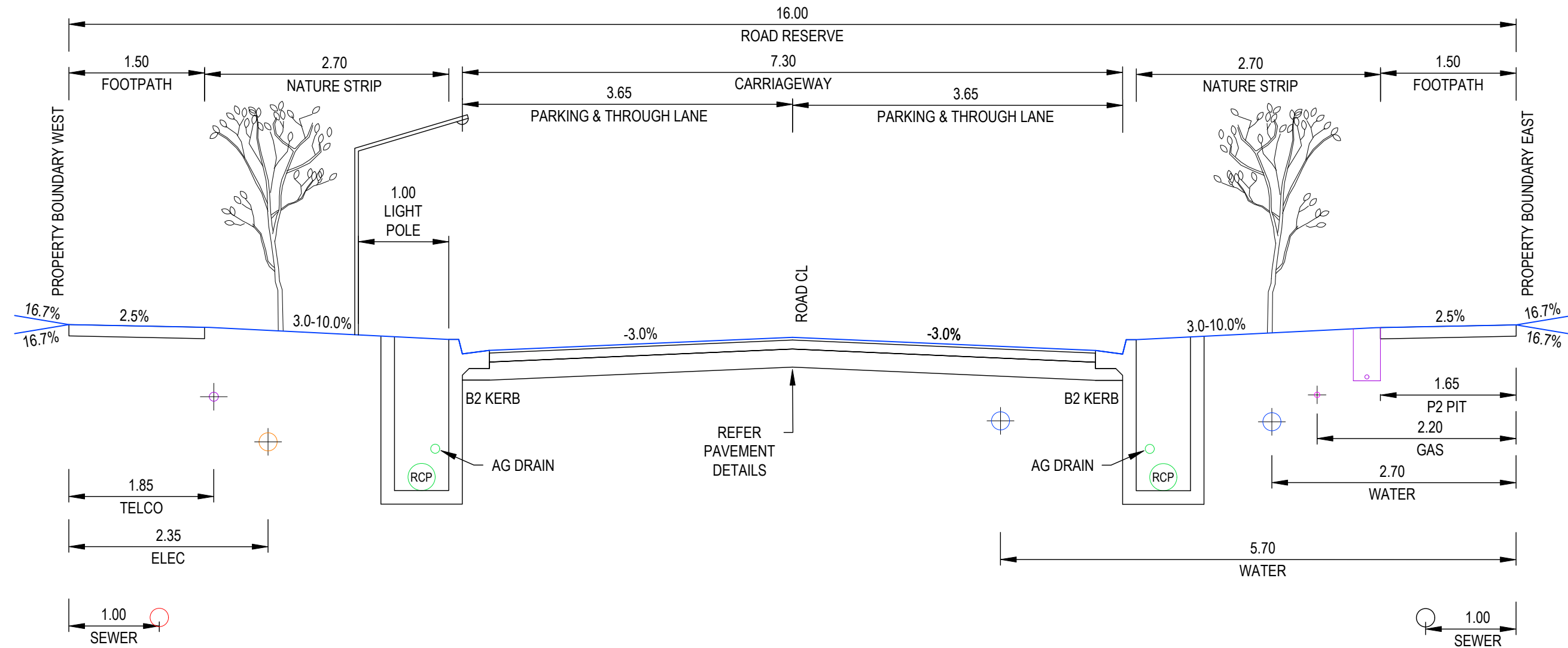
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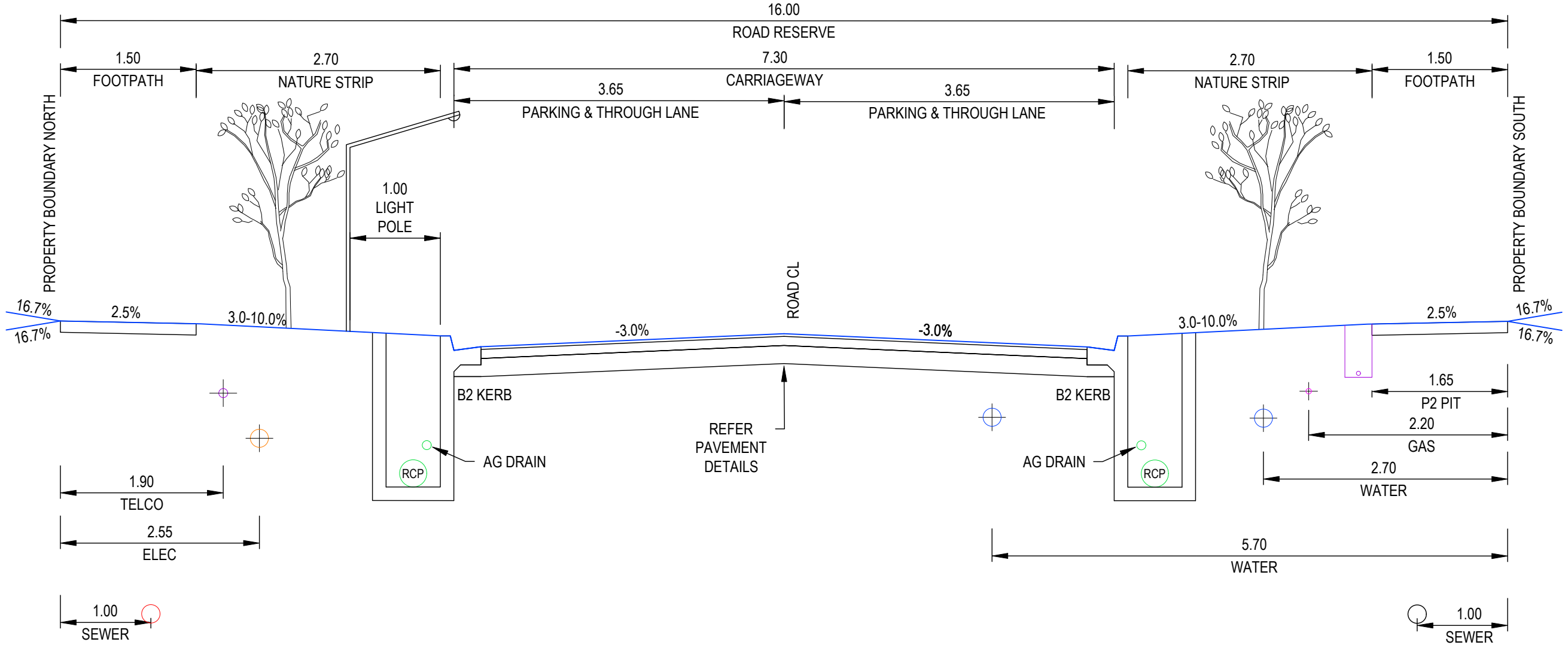


ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
PAVEMENT PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PROJECT & DWG No: REV: AC1
AS CONSTRUCTED A4041D-04 - RD400



16m ROAD RESERVE - DELMARE DRIVE
NORTH TO SOUTH - TYPICAL SECTION

NOT TO SCALE



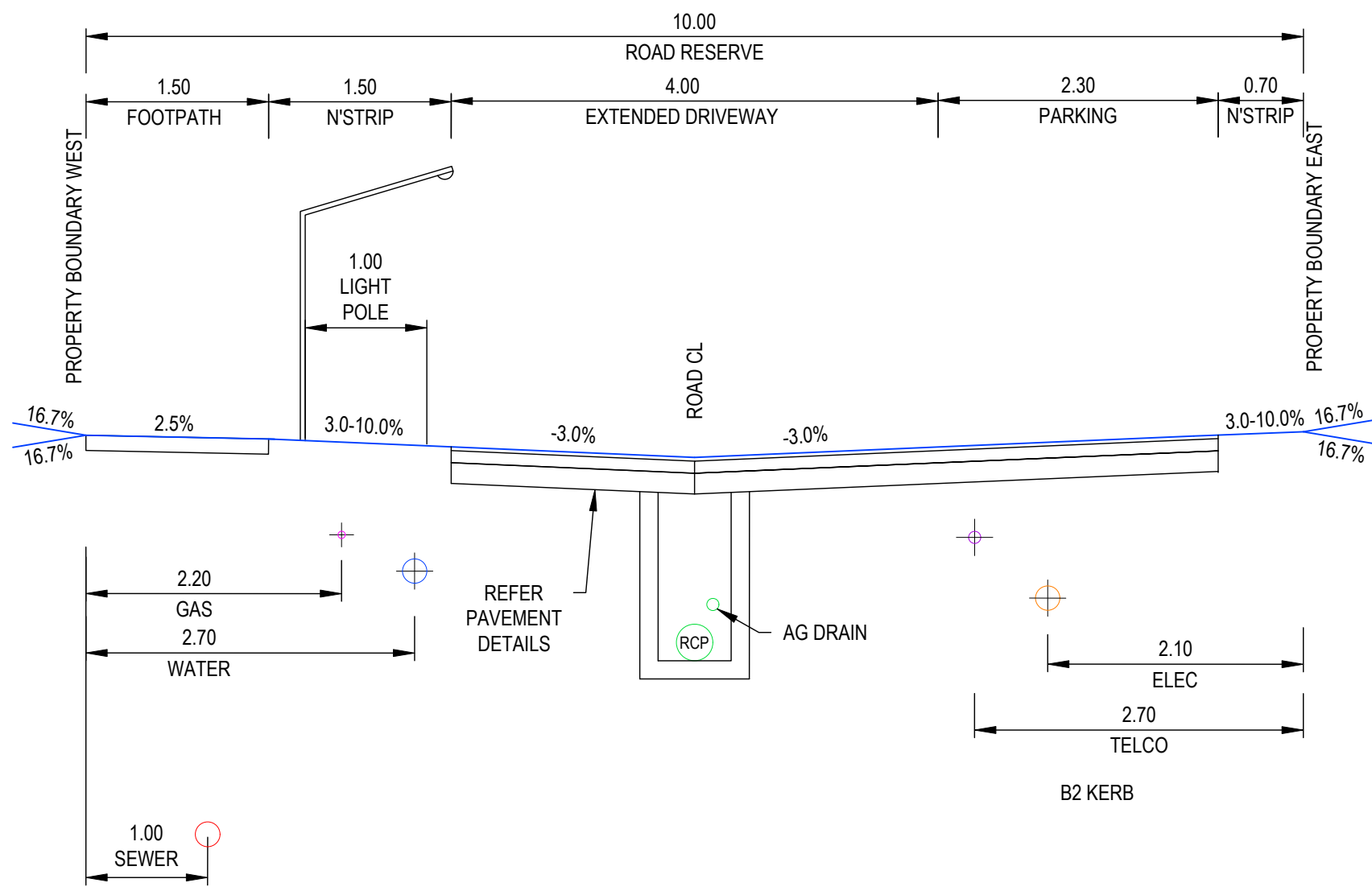
16m ROAD RESERVE - DELMARE DRIVE
WEST TO EAST - TYPICAL SECTION

NOT TO SCALE

AS-CONSTRUCTED SIGNATURES

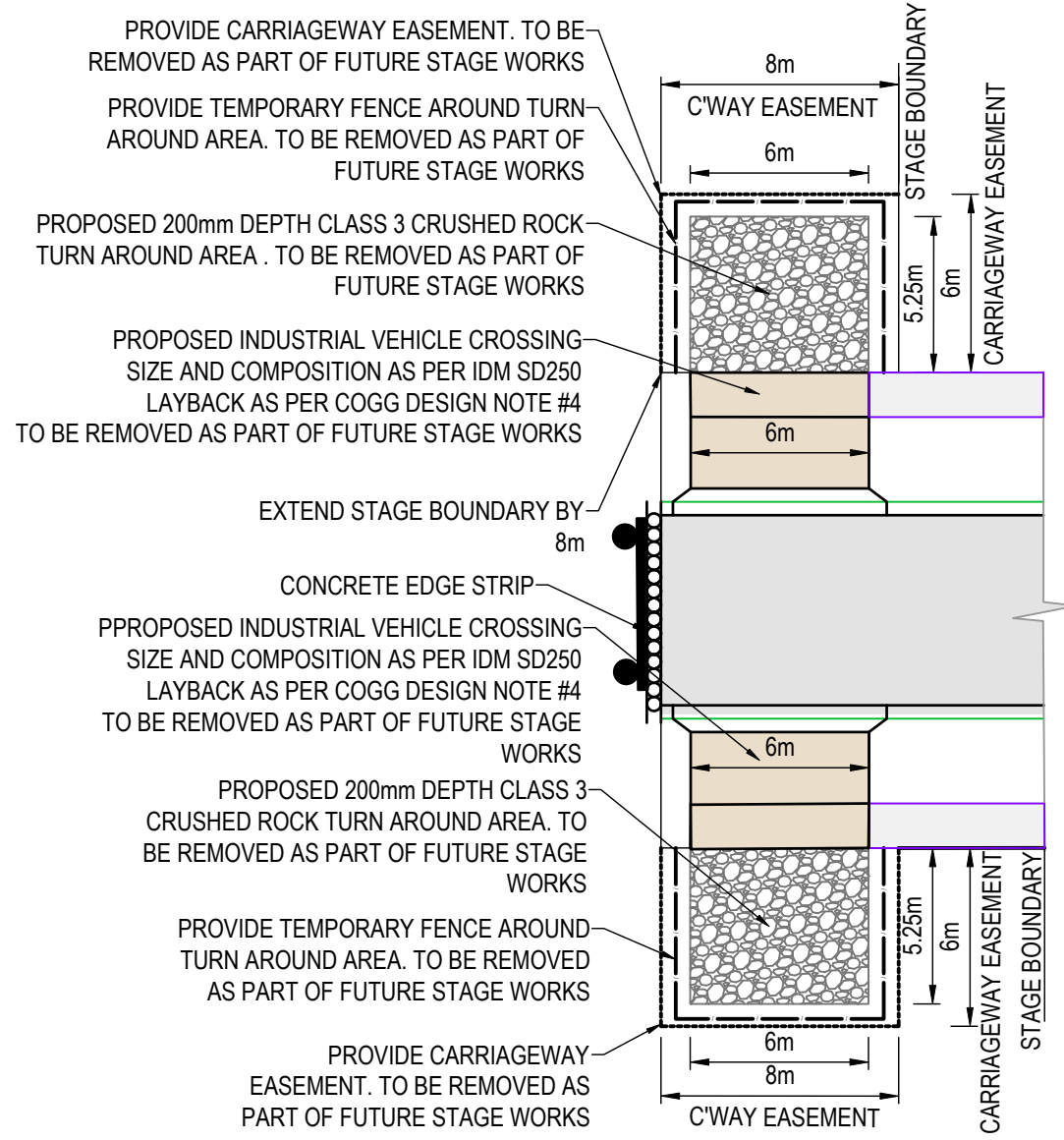
SIGN *[Signature]* DATE 23/05/25
TOMKINSON GROUP
106-8 BOSTON RD, TORQUAY 3228

SIGN *[Signature]* DATE 23/05/25
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219



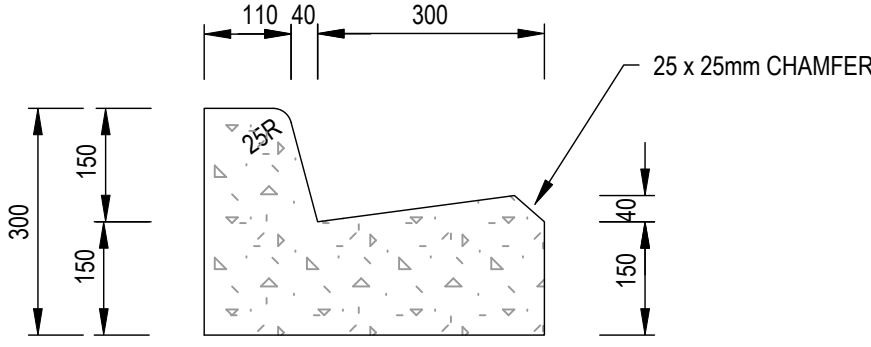
10m ROAD RESERVE - ATHENA PLACE
TYPICAL SECTION

NOT TO SCALE



TYPICAL CARRIAGEWAY
EASEMENT TURN AREA DETAIL

NOT TO SCALE




B2 KERB DETAIL (IDM SD100)

NOT TO SCALE


AC1 AS CONSTRUCTED	MK SP MM CS 23/05/25
B TITLE BLOCK UPDATED	MK MK MM CS 01/10/24
A PRELIMINARY ISSUE	NC MK MM 16/05/24
REV	DES DWG CHK AUTH DATE

RPE-0007966

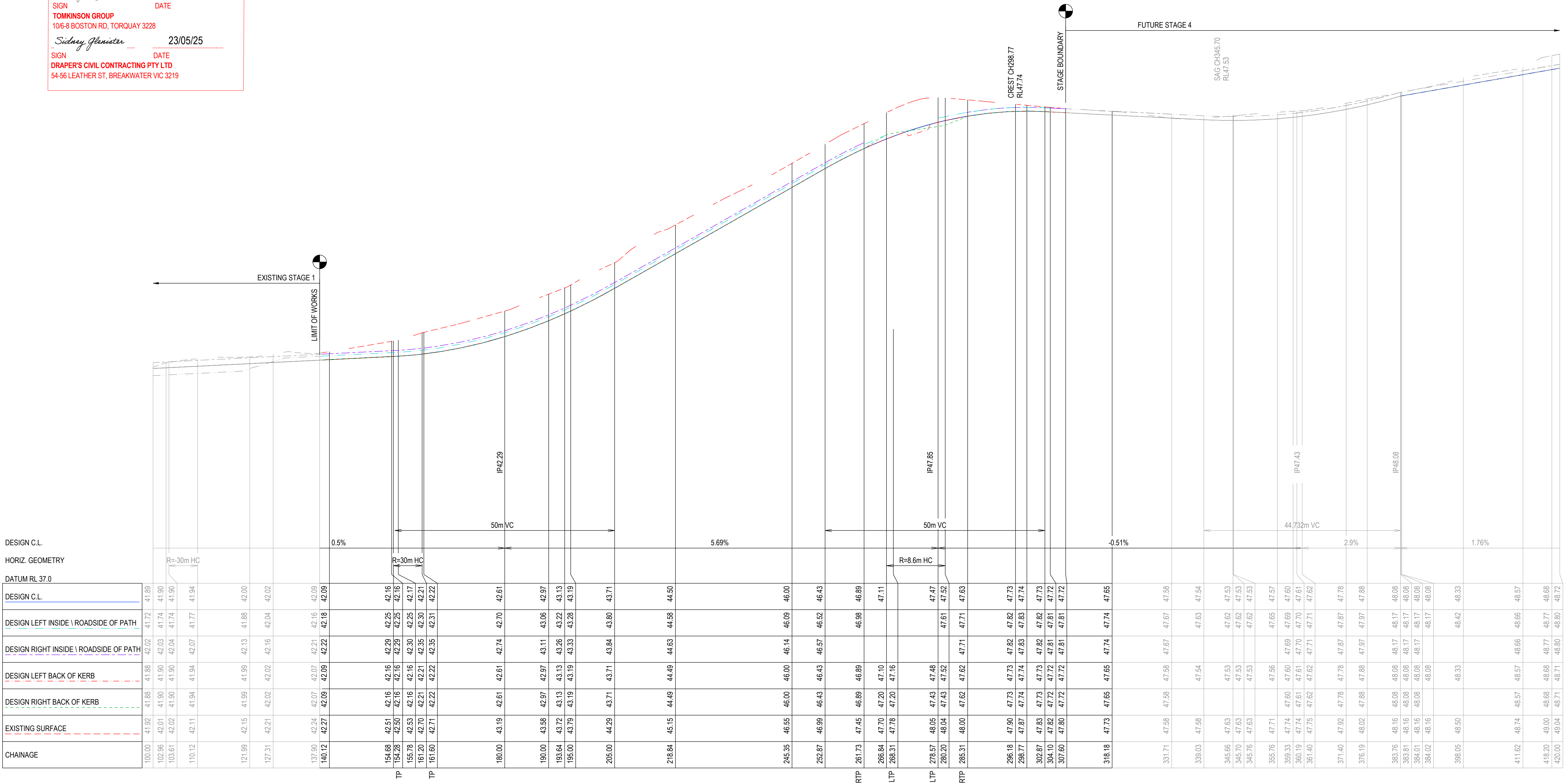
AS-CONSTRUCTED SIGNATURES

SIGN  DATE 23/05/25

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

SIGN  DATE 23/05/25

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

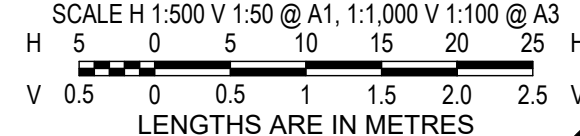


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A PRELIMINARY ISSUE	NC MK MM 16/05/24
REV	DES DWG CHK AUTH DATE

RPE-0007966

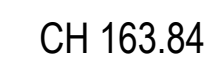
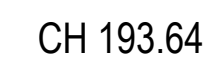
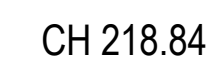
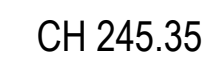
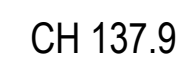
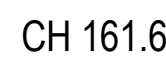


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ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD LONGITUDINAL SECTIONS DELMARE DRIVE
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PROJECT & DWG No: REV: 1
AS CONSTRUCTED A4041D-04 - RD600 AC1

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PLOT DATE: 26/05/2025 FILE: C:\12\DATA\TOM\K80-12DS01\A4041 - ASH ROAD LEOPOLD C-VILLAWOOD BENDIGO, LEOPOLD_988ENGINEERING\CAD\CURRENT\A4041 STAGE 5 ROAD AND DRAINAGE\A4041D 05-RD600.DWG



STRUCTURAL FILL TO 200mm BELOW
NATURAL SURFACE LEVEL WHERE
FOOTPATH IS CONSTRUCTED ON FILL.

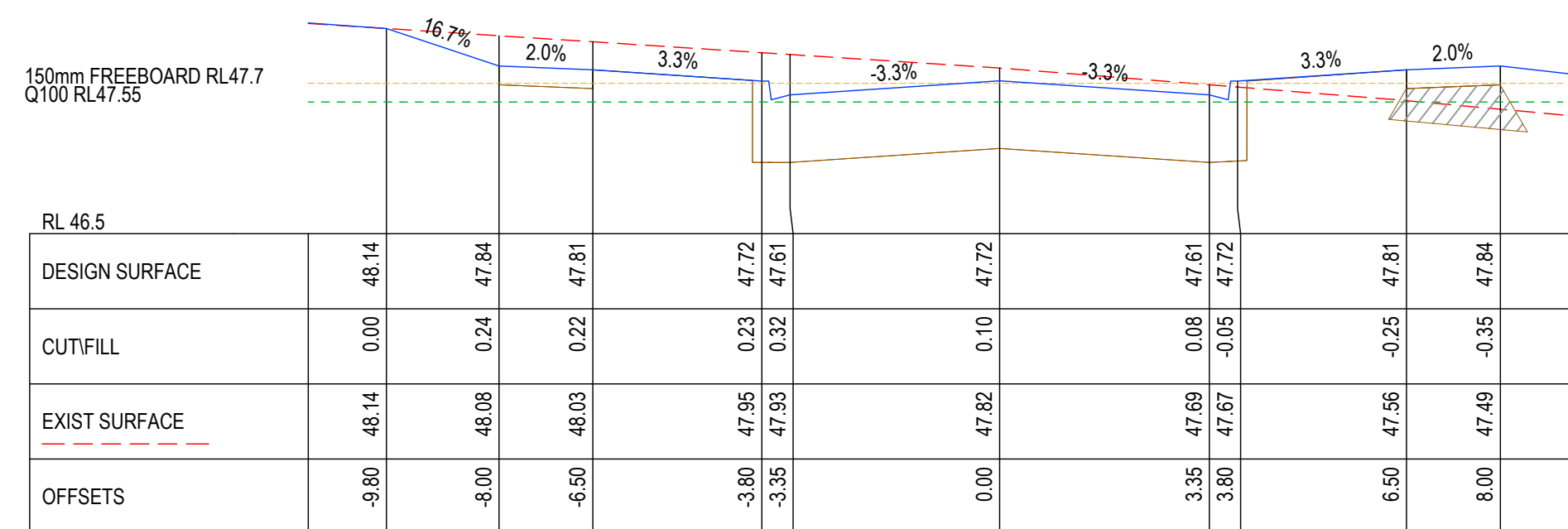
SIGN DATE 23/05/25

TOMKINSON GROUP
1016-B BOSTON RD, TORQUAY 3228

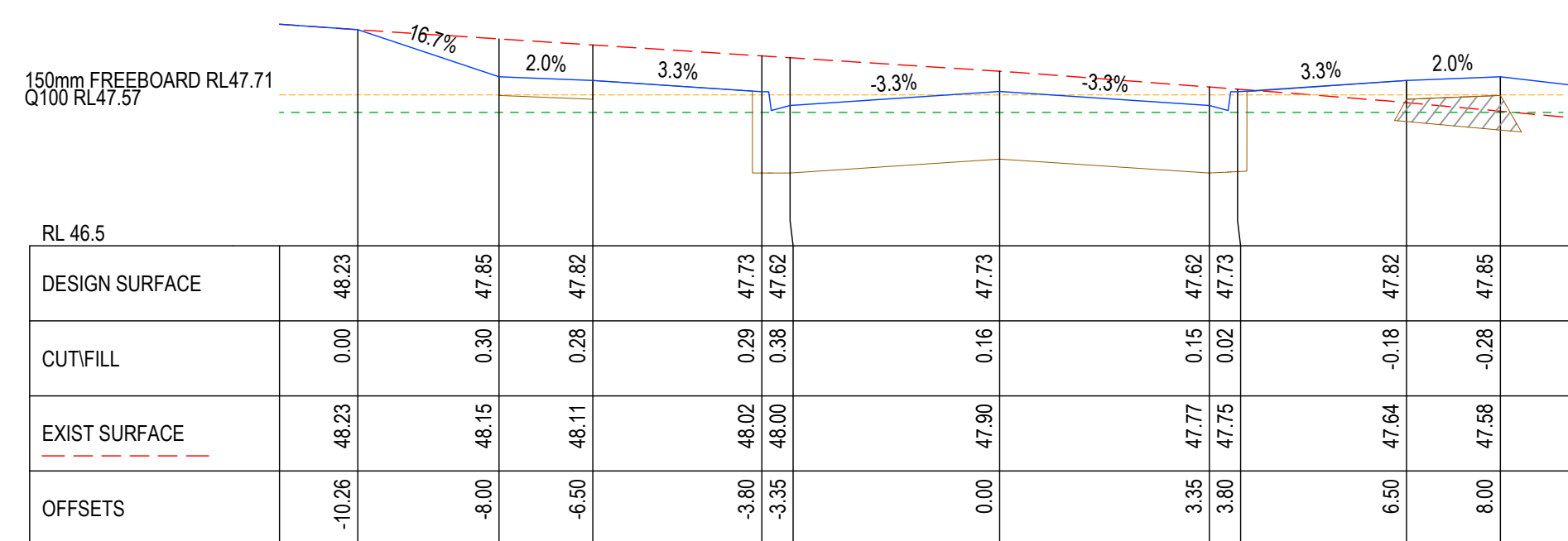
Sidney Glenister

SIGN DATE 23/05/25

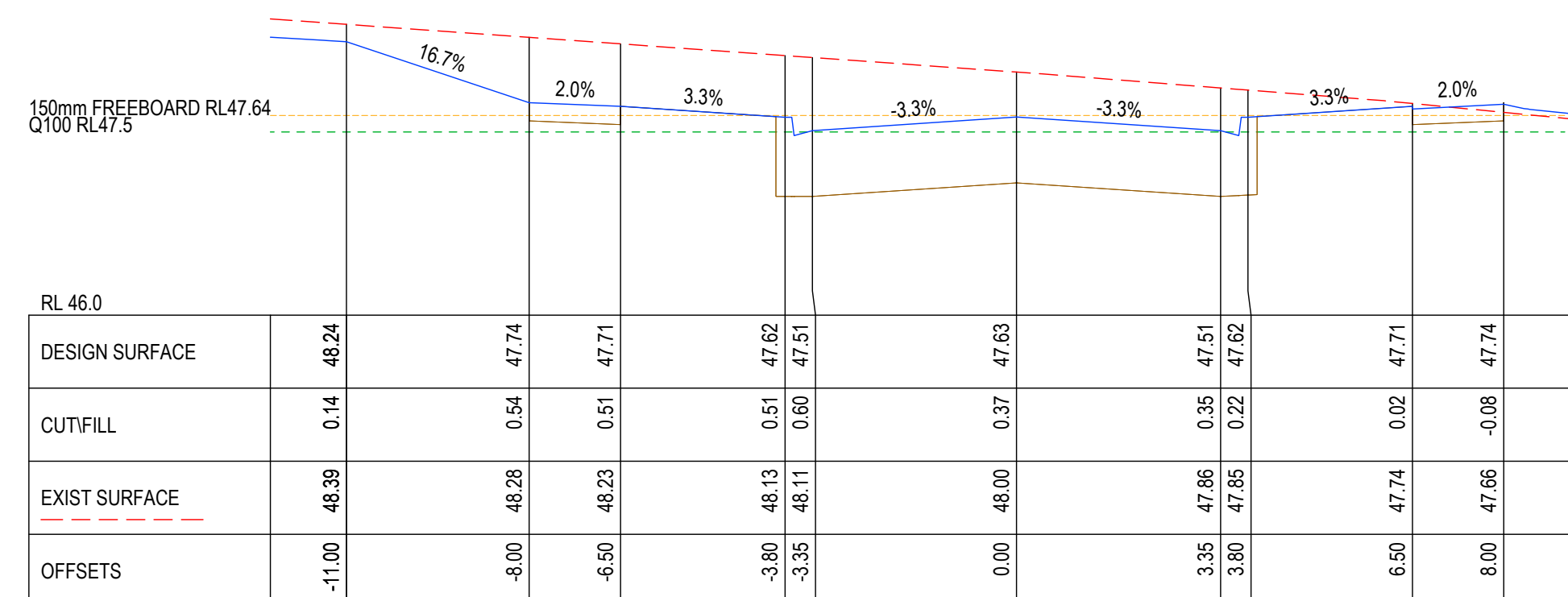
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219



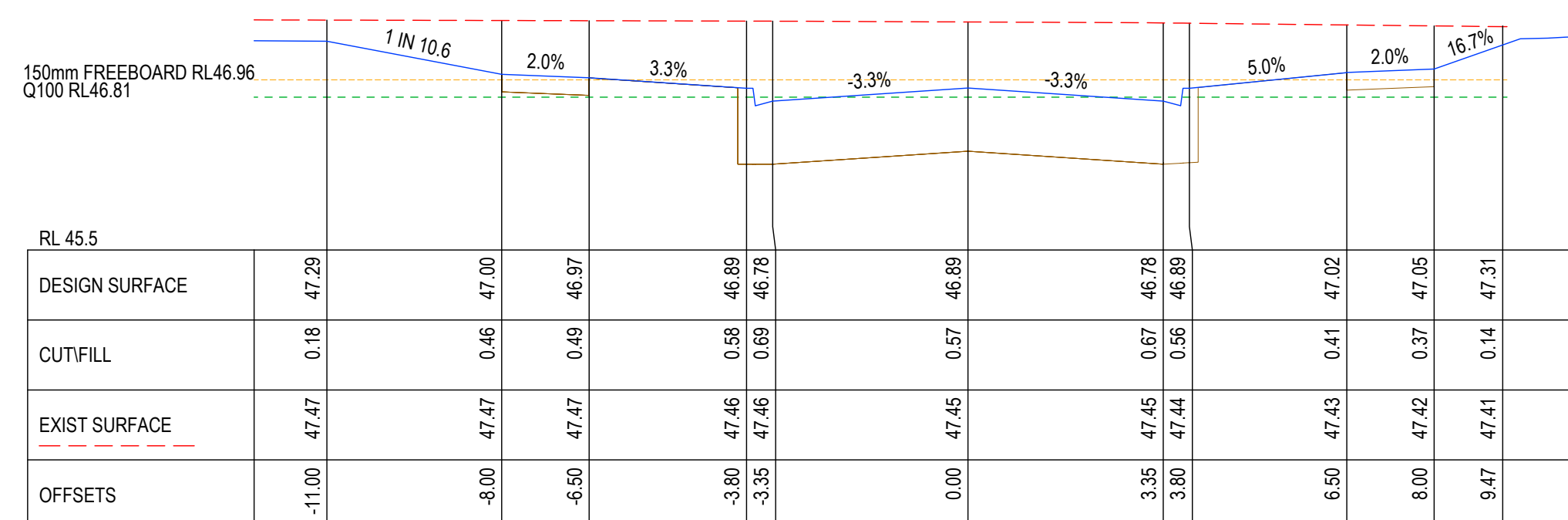
CH 304.1



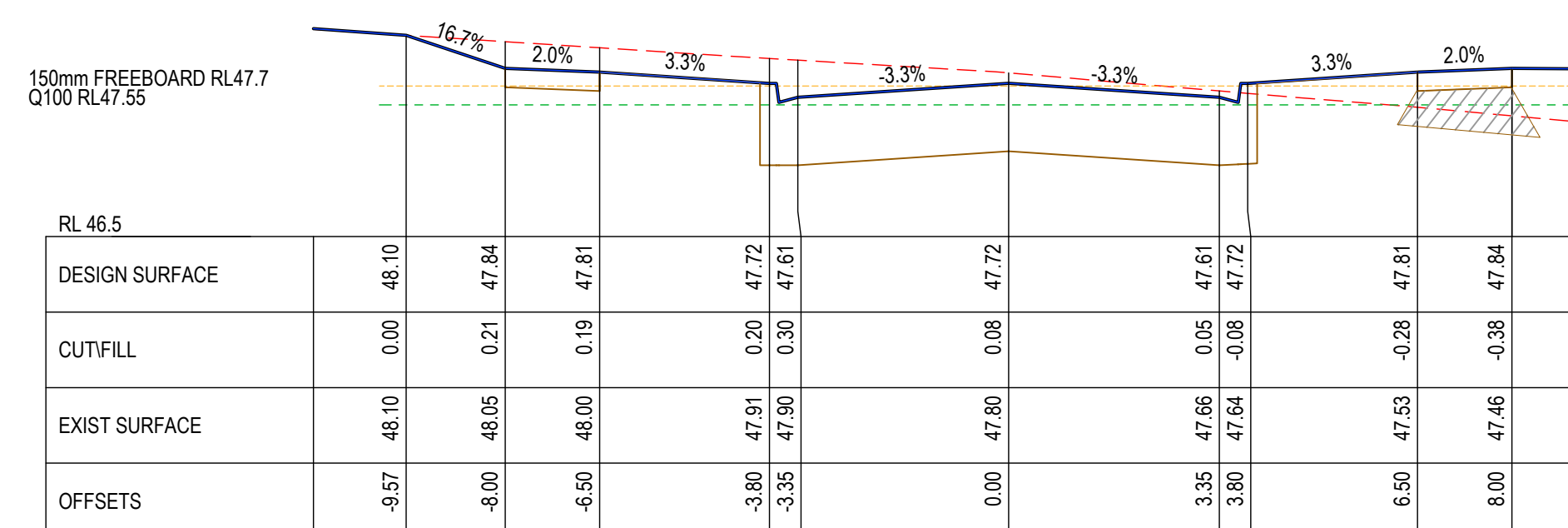
CH 296.18



CH 285.31





CH 261.73



CH 307.6

STRUCTURAL FILL TO 200mm BELOW
NATURAL SURFACE LEVEL WHERE
FOOTPATH IS CONSTRUCTED ON FILL.

AS-CONSTRUCTED SIGNATURES

SIGN DATE

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

AC1 AS CONSTRUCTED	MK	SP	MM	CS	23/05/25
B TITLE BLOCK UPDATED	MK	MK	MM	CS	01/10/24
A PRELIMINARY ISSUE	NC	MK	MM		16/05/24
REV	REVISION			DES	DWG CHK AUTH DATE

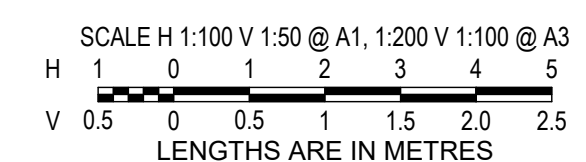
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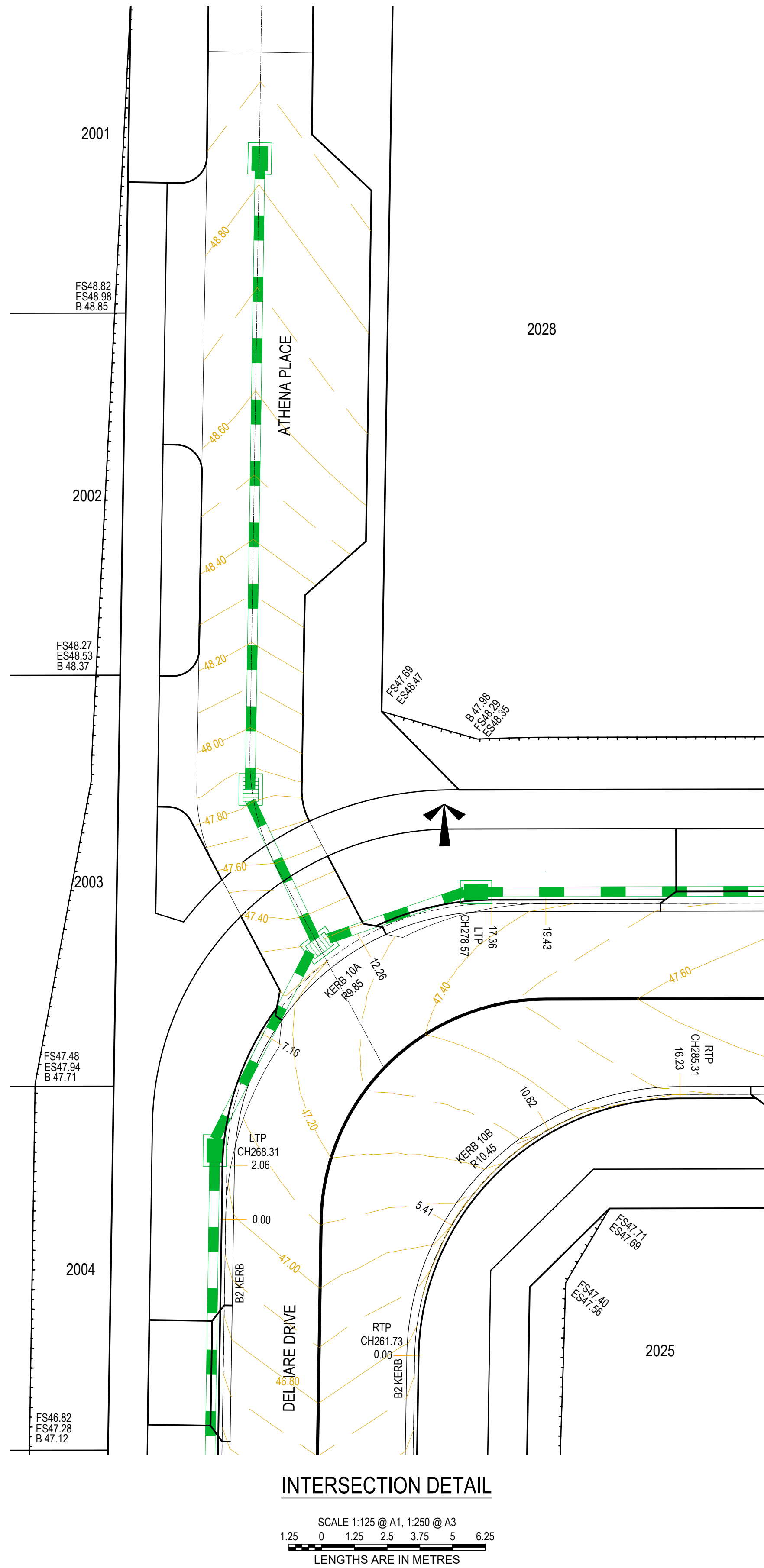


ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD CROSS SECTIONS DELMARE DRIVE
 AUTHORITY: CITY OF GREATER GEELOGH
 CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **AS CONSTRUCTED** PROJECT & DWG No: A4041D-04-RD602

AC1 REV: _____

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PROJECT: 2605/2025 FILE: C:\12\DATA\TOMK60-12\SD1\A4041 - ASH ROAD LEOPOLD C VILLAWOOD BENDIGO LEOPOLD 936\ENGINEERING\CAD\CURRENT\A4041_STAGE 5\ROAD AND DRAINAGE\A4041-05-R0600.DWG



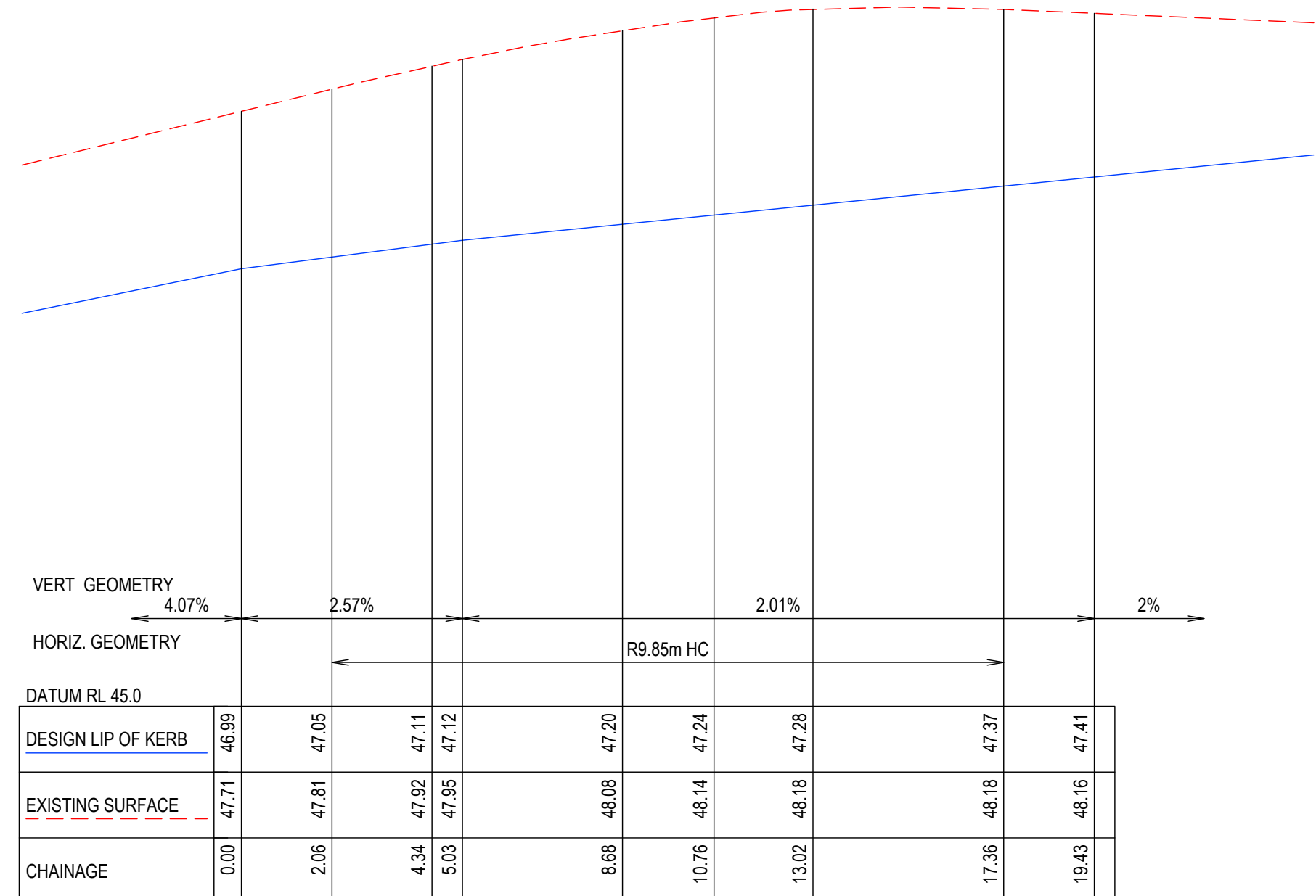
AS-CONSTRUCTED SIGNATURES

SIGN *AG* DATE 23/05/25

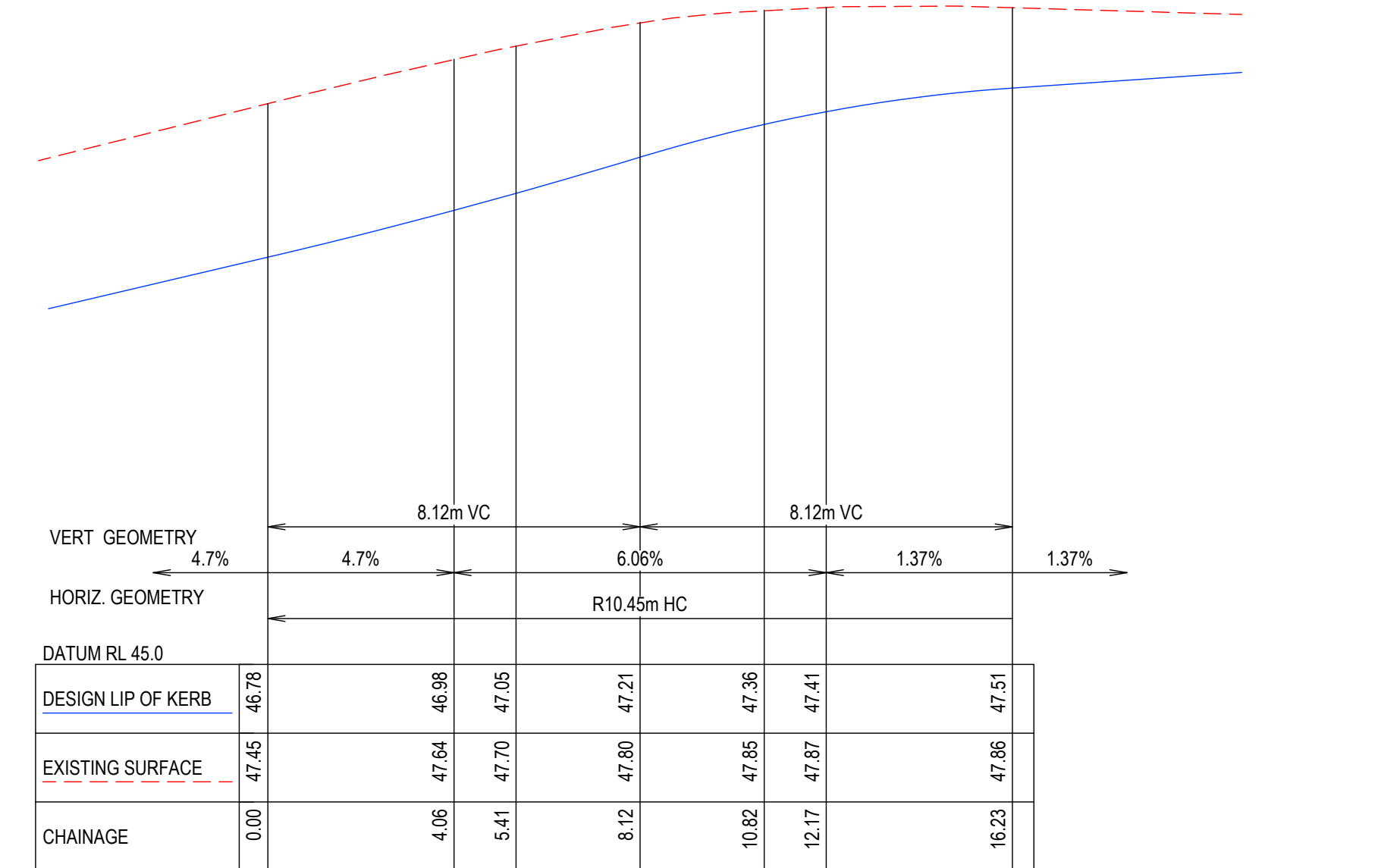
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN *Sidney Glenister* DATE 23/05/25

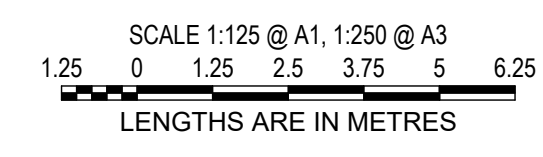
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219



KERB 10A



KERB 10B



AC1 AS CONSTRUCTED	MK SP MM CS 23/05/25
B TITLE BLOCK UPDATED	MK MK MM CS 01/10/24
A PRELIMINARY ISSUE	NC MK MM 16/05/24
REV	DES DWG CHK AUTH DATE

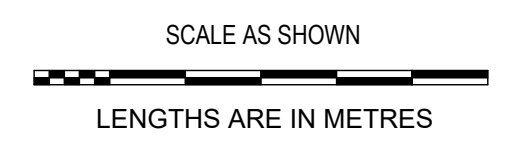


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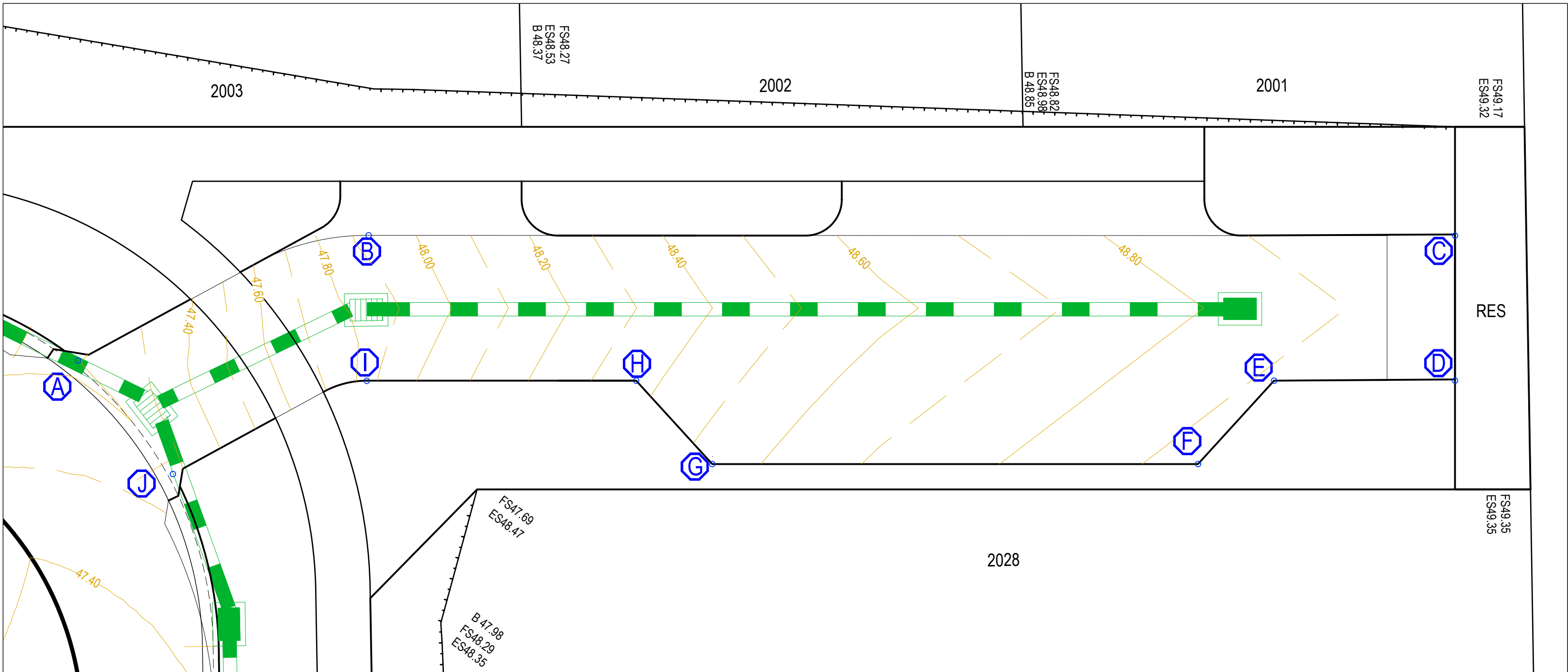
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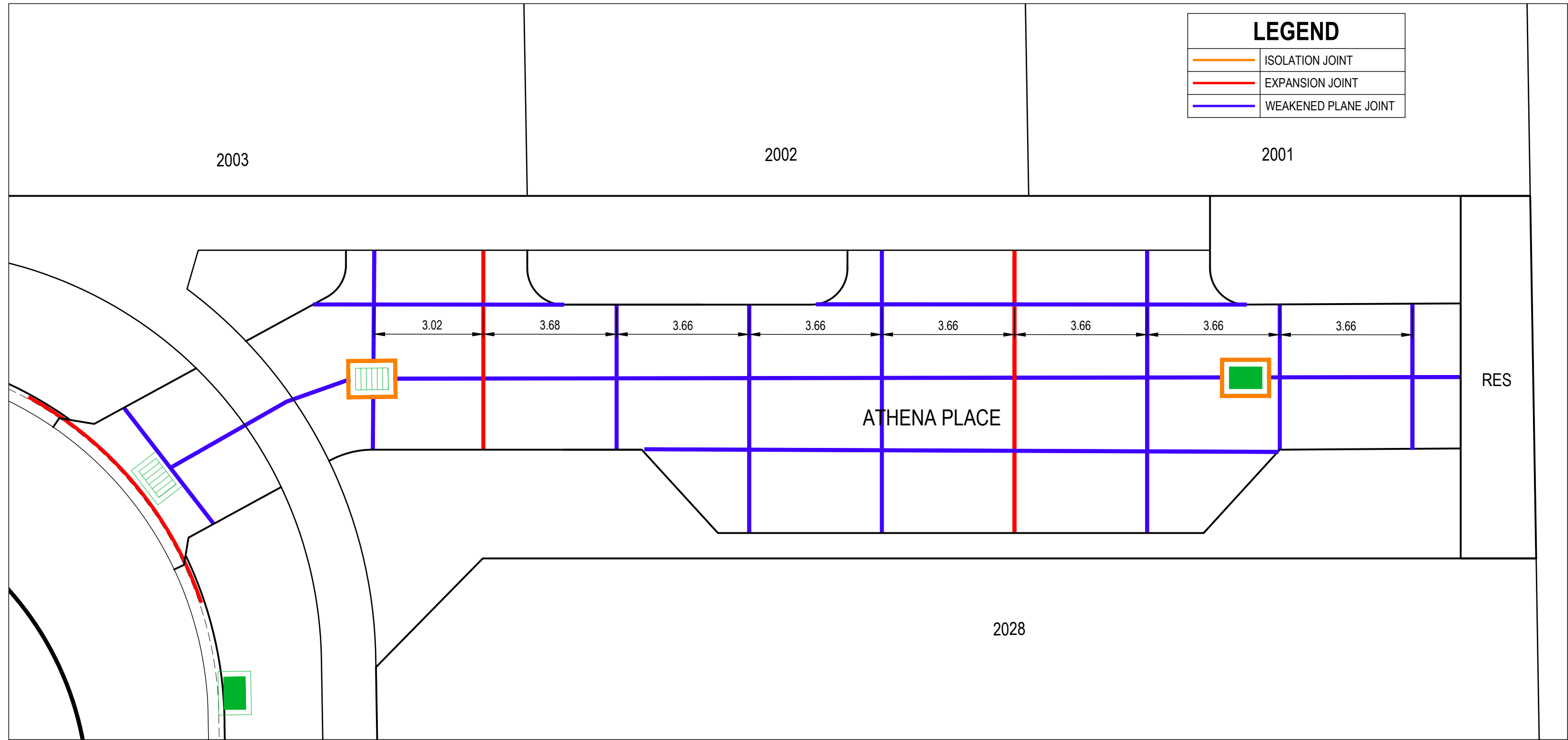


ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
INTERSECTION DETAILS
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PROJECT & DWG No: A4041D-04-RD700

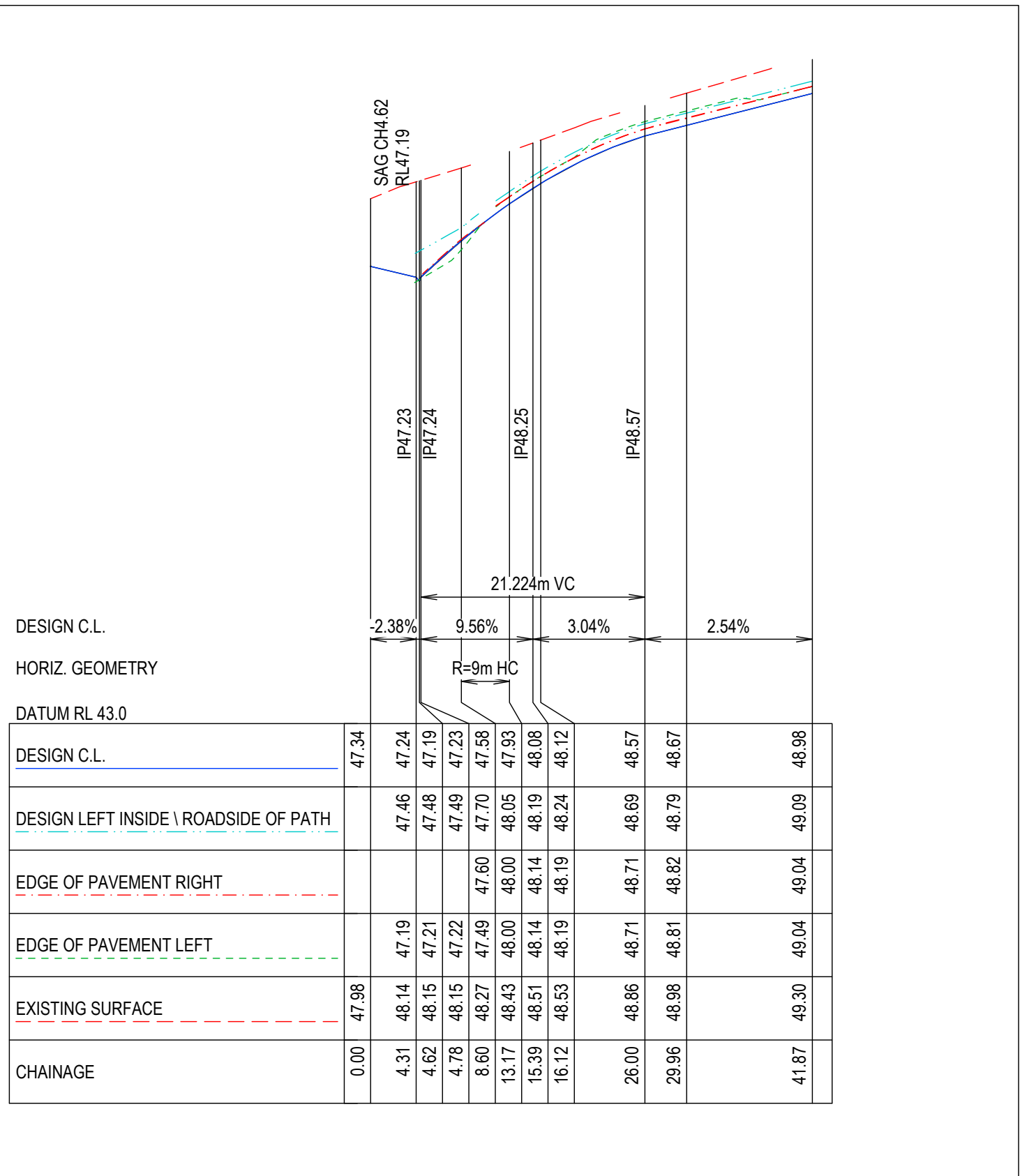


ATHENA PLACE SETOUT			
LOCATION	EASTING	NORTHING	RL
A	277832.997	5769146.758	47.191
B	277830.649	5769154.877	47.912
C	277834.848	5769184.873	49.043
D	277838.776	5769184.323	49.042
E	277838.117	5769179.377	48.916
F	277840.103	5769176.978	48.939
G	277838.243	5769163.707	48.543
H	277835.673	5769161.947	48.366
I	277834.718	5769153.553	47.711
J	277836.464	5769148.876	47.261

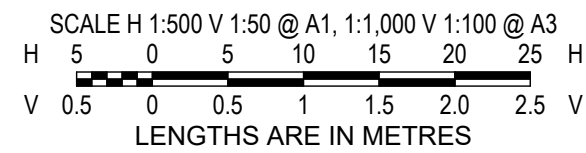
NOTE:
REFER TO IDM STANDARD DRAWINGS
SD220 & SD225 FOR JOINT DETAILS



LEGEND	
	ISOLATION JOINT
	EXPANSION JOINT
	WEAKENED PLANE JOINT

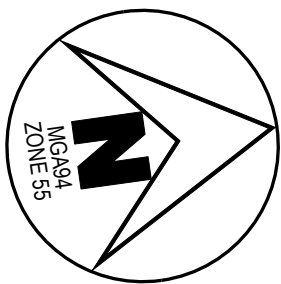


ATHENA PLACE LONGITUDINAL SECTION



AS-CONSTRUCTED SIGNATURES	
	23/05/25
SIGN	DATE
TOMKINSON GROUP 10/6-8 BOSTON RD, TORQUAY 3228	
	23/05/25
SIGN	DATE
DRAPER'S CIVIL CONTRACTING PTY LTD 54-56 LEATHER ST, BREAKWATER VIC 3219	

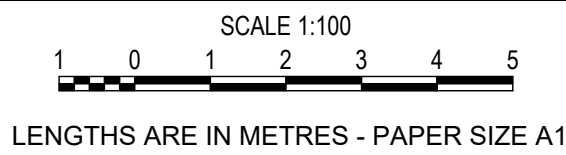
REV	REVISION	DES	DWG	CHK	AUTH	DATE
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B	TITLE BLOCK UPDATED	MK	MK	MM	CS	01/10/24
A	PRELIMINARY ISSUE	NC	MK	MM		16/05/24



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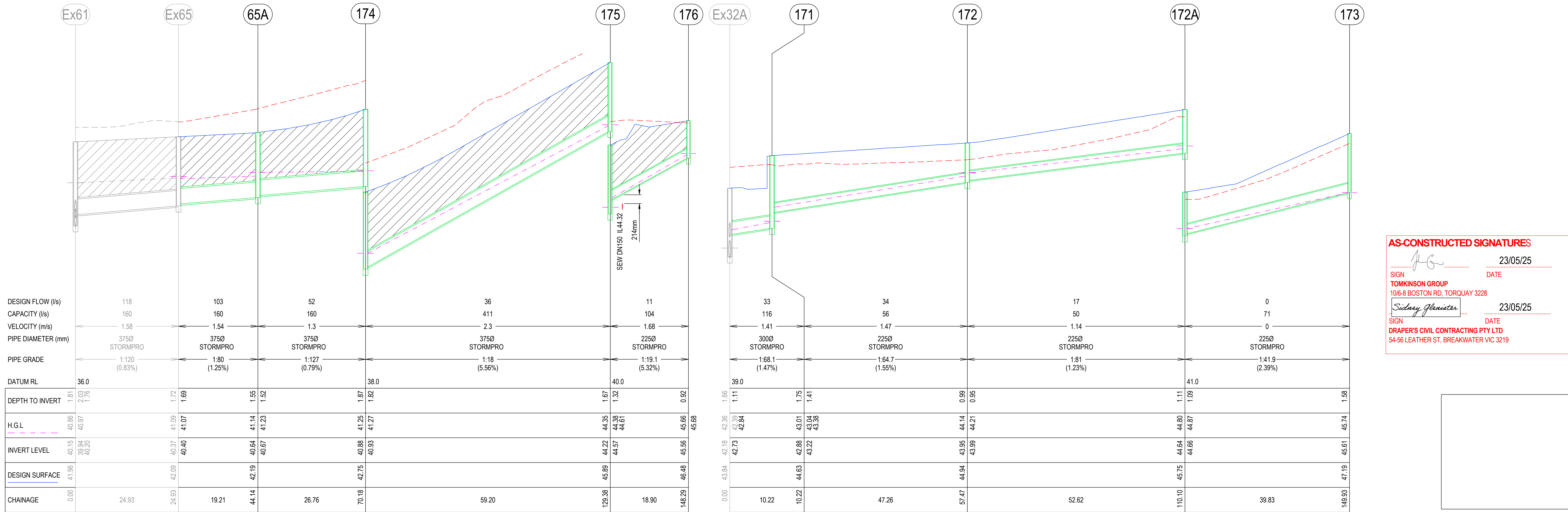
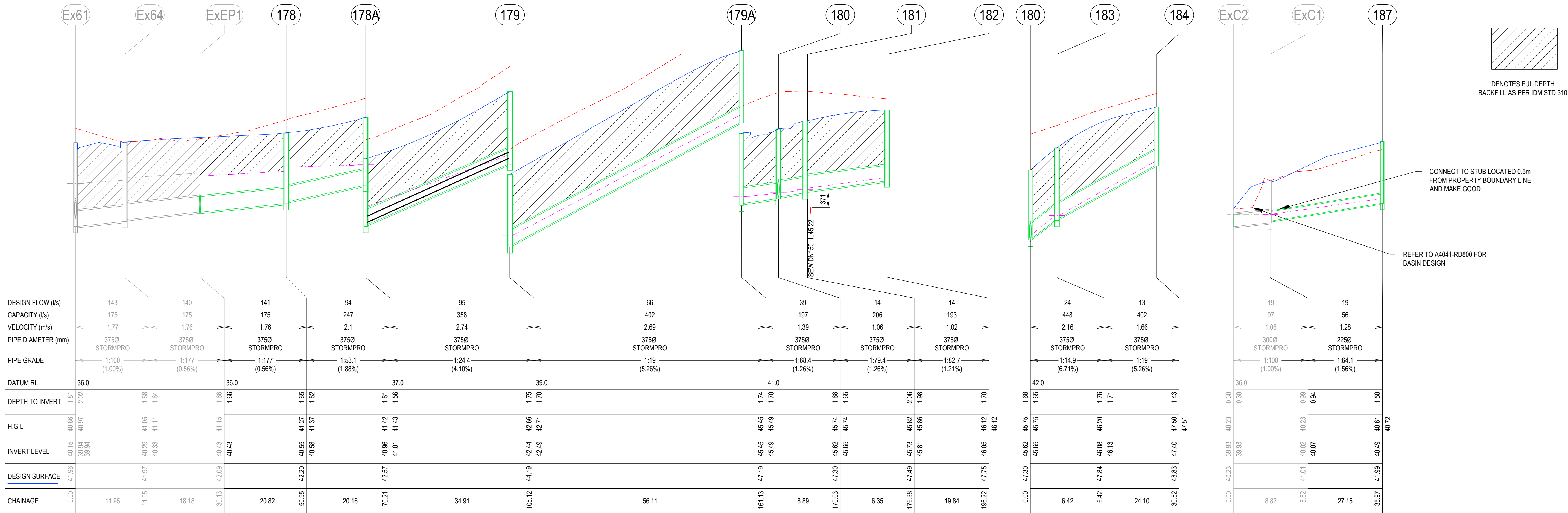


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ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ATHENA PLACE SETOUT DETAILS
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PROJECT & DWG No: REV:
AS CONSTRUCTEDA4041D-04 -RD701 AC1

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PLOT DATE: 26/05/2025 FILE: C:\12\DATA\TOM\K80-12\SDS01\A4041 - ASH ROAD LEOPOLD C-VILLAWOOD BENDIGO LEOPOLD_988\ENGINEERING\CAD\CURRENT\A4041D-05-RD701.DWG



AS-CONSTRUCTED SIGNATURES

..... 23/05/25
SIGN TOMKINSON GROUP DATE
1016-8 BOSTON RD, TORQUAY 3228
..... 23/05/25
SIGN Sydney Jhanister DATE
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

AC1 AS CONSTRUCTED
B TITLE BLOCK UPDATED, SEWER CONFLICT POINTS ADDED
A PRELIMINARY ISSUE

MK SP MM CS 23/05/25
MK MK MM CS 01/10/24
NC MK MM 16/05/24

REV DES DWG CHK AUTH DATE

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LEOPOLD

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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



ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
DRAINAGE LONGITUDINAL SECTIONS
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PROJECT & DWG No: REV:
AS CONSTRUCTEDA4041D-04 -RD800 AC1

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PLOT DATE: 26/05/2025 FILE: C:\12\DATA\TOMKINSON\12\DS01\A4041 - ASH ROAD LEOPOLD C-VILLAWOOD BENDIGO LEOPOLD_988ENGINEERING\CAD\CURRENT\A4041 STAGE 5 ROAD AND DRAINAGE\A4041D-05-RD800.DWG

PIT SCHEDULE												
PIT		LOCATION		INTERNAL		INLET		OUTLET		PIT		REMARKS
PIT NAME	PIT TYPE	EASTING	NORTHING	WIDTH	LENGTH	DIAMETER	INVERT LEVEL	DIAMETER	INVERT LEVEL	SETOUT IRL	DEPTH	
EX32A	JP	277858.522	5768971.871	600	900	300	42.73	375	42.18	43.84	1.66	CONTRACTOR TO BREAK INTO EX NORTH PIT WALL, CONNECT NEW PIPE AND MAKE GOOD REFER TO IDM SD405 & SD420
EX61	JP	277825.839	5768985.547	600	900	Ex 375	39.94	375	40.15	41.96	1.81	EX STAGE 1 JUNCTION PIT REFER TO IDM SD240
						Ex 375	39.94					
EX64	JP	277817.01	5768993.288	600	900	Ex 375	40.33	375	40.29	41.97	1.68	EX STAGE 1 JUNCTION PIT REFER TO IDM SD240
EXEP1	EP	277815.697	5769011.418			Ex 375	40.43	375	40.43	42.09	1.66	END CAP
EX65	SEP	277823.898	5769010.398	600	900	Ex 375	40.40	375	40.37	42.09	1.72	CONTRACTOR TO BREAK INTO EX NORTH PIT WALL, CONNECT NEW PIPE AND MAKE GOOD REFER TO IDM SD405 & SD420
65A	JP	277822.520	5769029.556	600	900	375	40.67	375	40.64	42.19	1.55	REFER TO IDM SD405 & SD420
171	JP	277859.111	5768982.067	600	900	225	43.22	300	42.88	44.63	1.75	REFER TO IDM SD405 & SD420 WITH GRATED INSERT
172	JP	277855.432	5769029.169	600	900	225	43.99	225	43.95	44.94	0.99	REFER TO IDM SD405 & SD420 WITH GRATED INSERT
172A	JP	277862.751	5769081.280	600	900	225	44.66	225	44.64	45.75	1.10	REFER TO IDM SD405 & SD420 WITH GRATED INSERT
173	GJP	277868.266	5769120.726	600	600			225	45.61	47.19	1.58	REFER TO IDM SD405 & SD420 WITH GRATED INSERT
174	SEP	277814.433	5769032.199	900	900	375	40.93	375	40.88	42.75	1.87	REFER TO IDM SD410 & SD430
175	JP	277817.101	5769051.275	600	900	375	44.57	375	44.22	45.89	1.67	REFER TO IDM SD405 & SD420
176	SEP	277821.876	5769085.853	600	900			225	45.56	46.48	0.92	REFER TO IDM SD405 & SD420 PROVIDE GRATED PIT LID COVER
178	JP	277829.651	5769141.327	600	900	375	40.58	375	40.55	42.20	1.65	REFER TO IDM SD405 & SD420 PROVIDE CLASS D TRAFFICABLE LID
178A	JP	277834.588	5769148.608	600	900	375	41.01	375	40.96	42.57	1.61	REFER TO IDM SD405 & SD420
179	SEP	277821.887	5769085.757	600	900	375	42.49	375	42.44	44.19	1.75	REFER TO IDM SD405 & SD420
179A	SEP	277829.651	5769141.327	600	900	375	45.49	375	45.44	47.19	1.75	REFER TO IDM SD405 & SD420
180	GP	277834.588	5769148.608	600	900			375	45.65	47.30	1.68	REFER TO IDM SD410 & SD420 CLASS D BIKE SAFE GRATE MATCHED TO DWY PROFILE
								375	45.65			
181	JP	277840.765	5769149.894	600	900	375	45.81	375	45.73	47.49	1.76	REFER TO IDM SD410 & SD420
182	JP	277860.460	5769147.491	600	900			375	46.05	47.75	1.70	REFER TO IDM SD405 & SD420
183	GP	277832.708	5769154.844	600	900	375	46.13	375	46.08	47.84	1.76	REFER TO IDM SD405 & SD420 CLASS D BIKE SAFE GRATE MATCHED TO DWY PROFILE
184	JP	277836.025	5769178.718	600	900			375	47.40	48.83	1.43	REFER TO IDM SD405 & SD420 PROVIDE CLASS D TRAFFICABLE LID
EXC2	EW	277780.939	5768994.491			300	39.93			40.22	0.3	CONCRETE ENDWALL REFER IDM SD 498
EXC1	JP	277775.326	5769002.649	600	600	300	40.07	300	40.02	41.01	0.99	REFER IDM SD 425
187	GP	277779.045	5769029.542	600	600			225	40.49	41.99	1.50	REFER TO SD405 & IDM SD425 PROVIDE GRATED COVER PIT LID

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
- EW - END WALL

AS-CONSTRUCTED SIGNATURES

SIGN  DATE 23/05/25

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

Sidney Glenister **23/05/25**

SIGN **DATE**

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

AC1 AS CONSTRUCTED	MK	SP	MM	CS	23/05/25
B TITLE BLOCK UPDATED	MK	MK	MM	CS	01/10/24
A PRELIMINARY ISSUE	NC	MK	MM		16/05/24
REV	REVISION			DES DWG CHK AUTH	DATE

3PF-0007966



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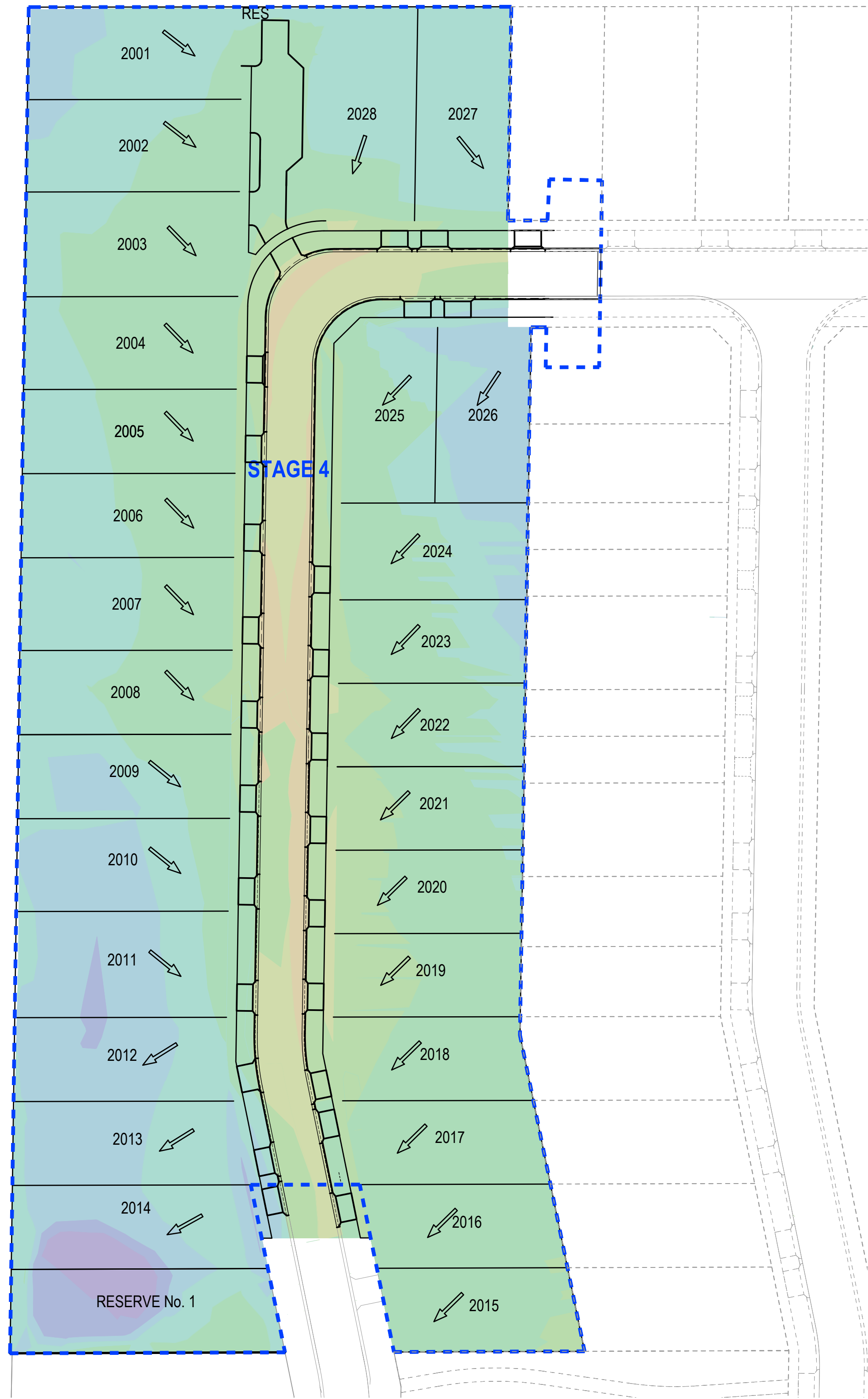


ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
PIT SCHEDULE
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **AS CONSTRUCTED** PROJECT & DWG No: A4041D-04 -RD80

REV:
AC-

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 PLOT NAME: 2605242025 ELFE C-120101 (DATA) (R60 - 120101) (A4044) - ASH ROAD, LEPTON D.C. VILLAGE (ENGINEERING CAD) (R60 - 120101) (A4044) - STAGE 5 ROAD AND DRAINAGE (A4044) - L7808101.DWG
 PLOT DATE: 26/05/2025



CUT & FILL DEPTH RANGE		
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		

CUT & FILL VOLUMES	
CUT	= 1603m³
FILL	= 1771m³

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	
.....	23/05/25
SIGN	DATE
TOMKINSON GROUP	
10/6-8 BOSTON RD, TORQUAY 3228	
.....	23/05/25
SIGN	DATE
DRAPER'S CIVIL CONTRACTING PTY LTD	
54-56 LEATHER ST, BREAKWATER VIC 3219	

AC1 AS CONSTRUCTED	MK SP MM CS 23/05/25
B TITLE BLOCK UPDATED	MK MK MM CS 01/10/24
A PRELIMINARY ISSUE	NC MK MM 16/05/24
REV	DES DWG CHK AUTH DATE
REVISION	



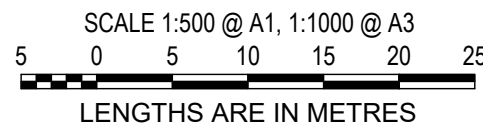


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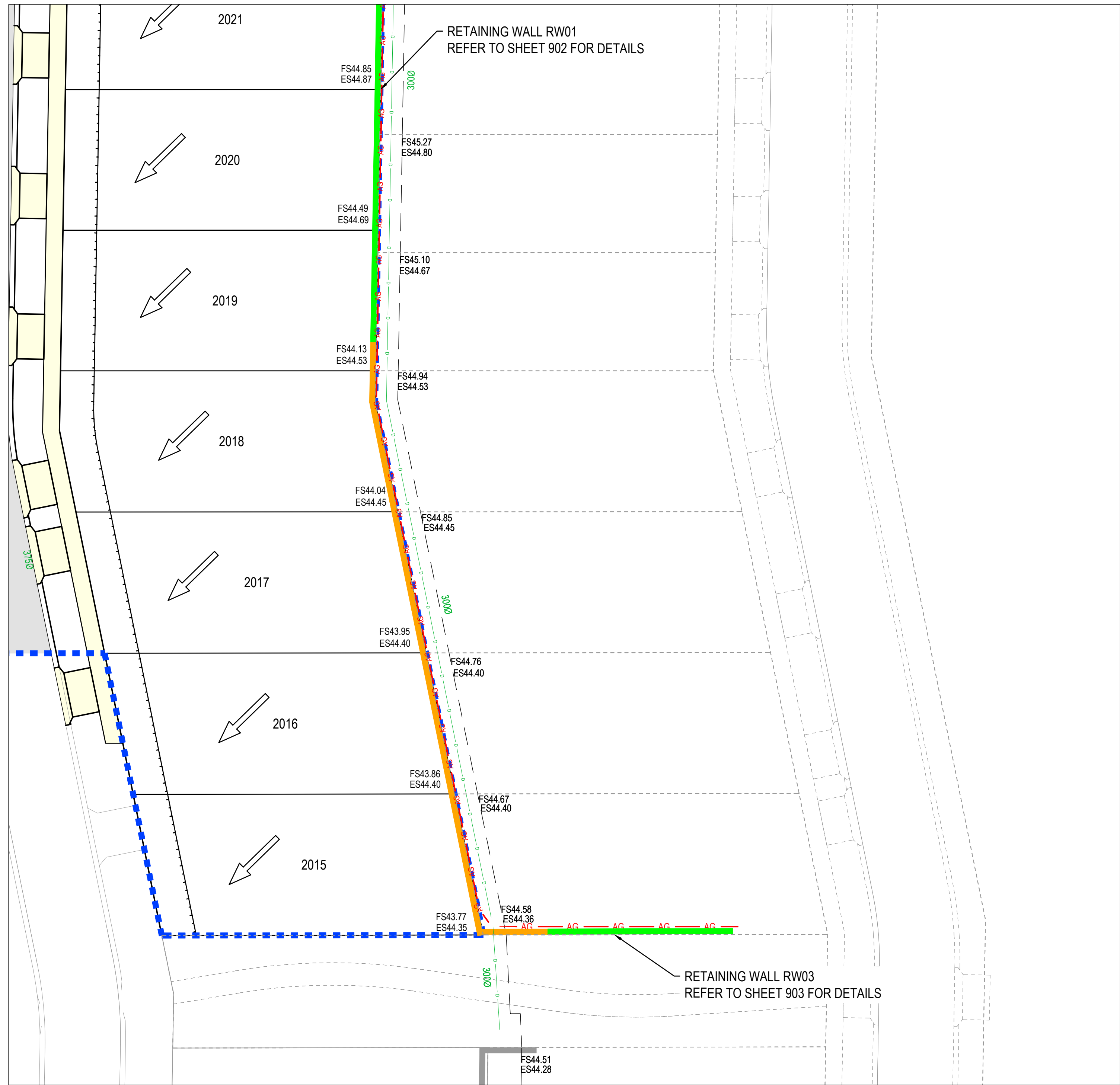


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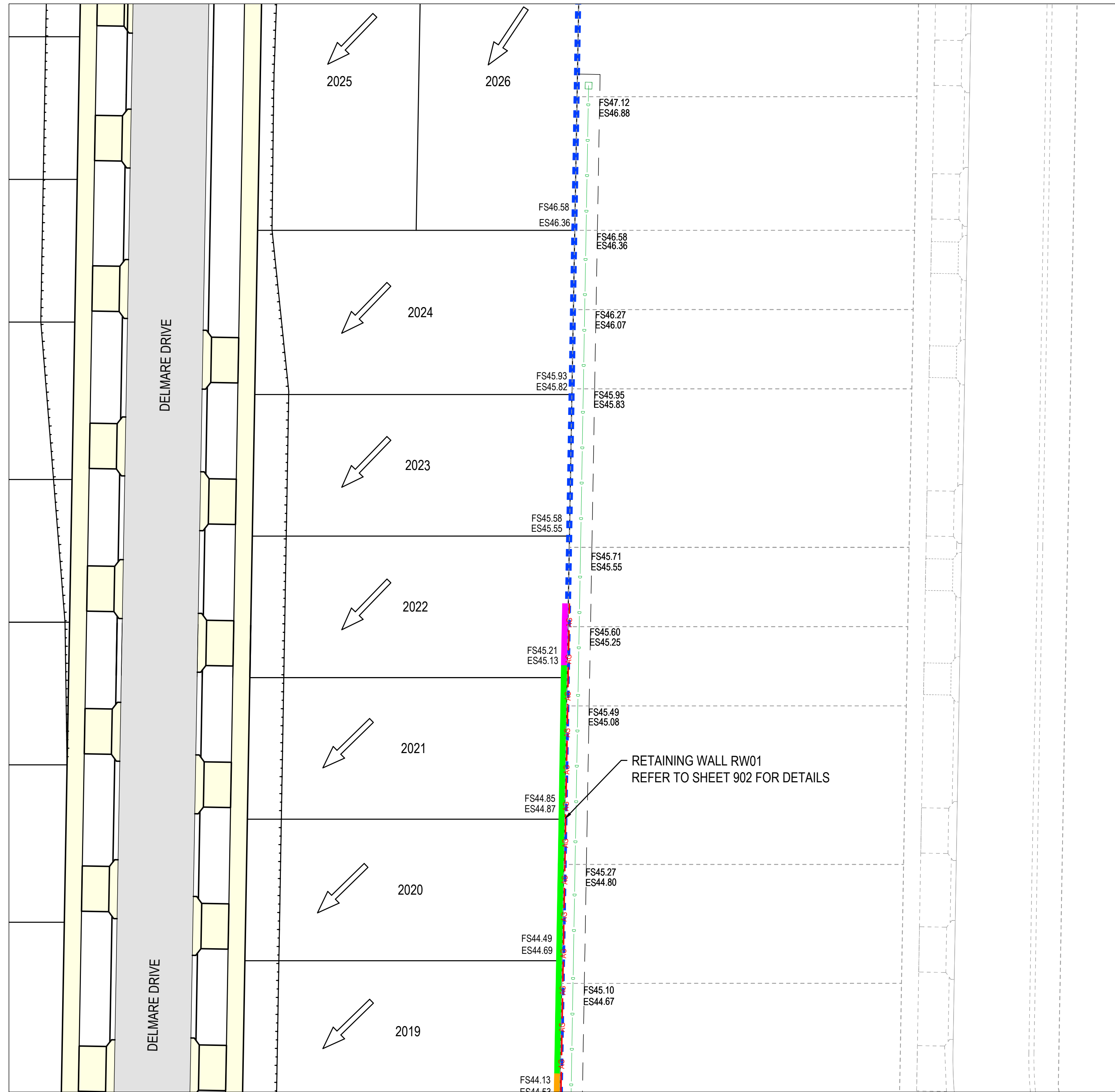


ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
BULK EARTHWORKS
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: PROJECT & DWG No: **AS CONSTRUCTED** A4041D-04 - RD900



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TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228
SIGN *[Signature]* DATE 23/05/25
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

AC1 AS CONSTRUCTED
A PRELIMINARY ISSUE

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MK MK MM 01/10/24

DES DWG CHK AUTH DATE



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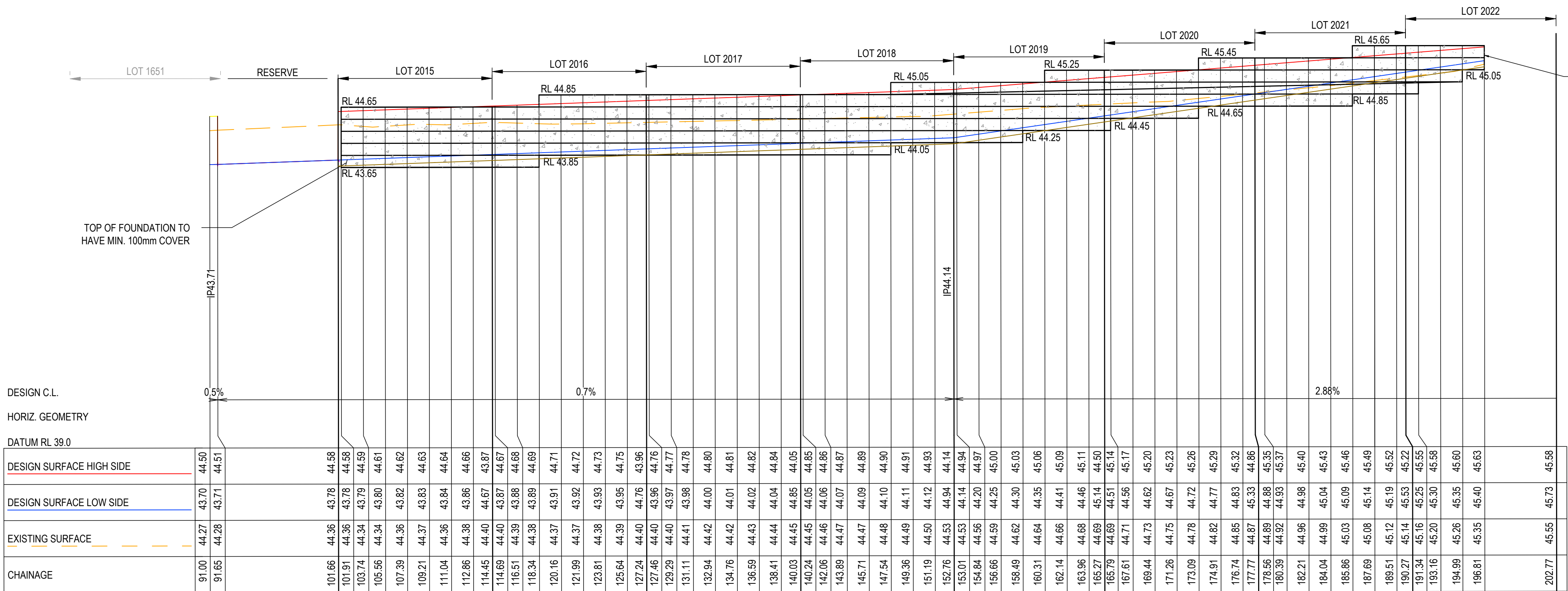


ESTUARY II - STAGE 04 PP-729-2021
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
RETAINING WALL LAYOUT PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PROJECT & DWG No: REV:

AS CONSTRUCTED A4041D-04 - RD901

AC1

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PLOT DATE: 26/05/2025 FILE: C:\12\DATA\TOM\K80-12DS01\44041 - ASH ROAD, LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_988ENGINEERING\CAD\CURRENT\44041 STAGE 04 ROAD AND DRAINAGE\A4041D-04-RD901.DWG



FILL AGAINST PLINTH FROM CH198 64 AND BEYOND TO A MAXIMUM OF 200mm.

AS-CONSTRUCTED SIGNATURES

SIGN *[Signature]* DATE 23/05/25
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

SIGN *[Signature]* DATE 23/05/25
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

AC1 AS CONSTRUCTED	MK SP MM CS 23/05/25
1 LOT NUMBERS/LONG SECTION CHAINAGES AMENDED & WALL LENGTH REDUCED	MK MK MM CS 28/10/24
B TITLE BLOCK UPDATED	MK MK MM CS 01/10/24
A PRELIMINARY ISSUE	NC MK MM - 16/05/24
REV	DES DWG CHK AUTH DATE
REVISION	

RPE-0007966

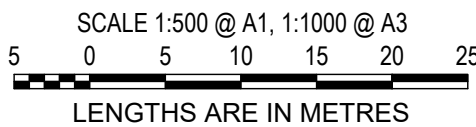


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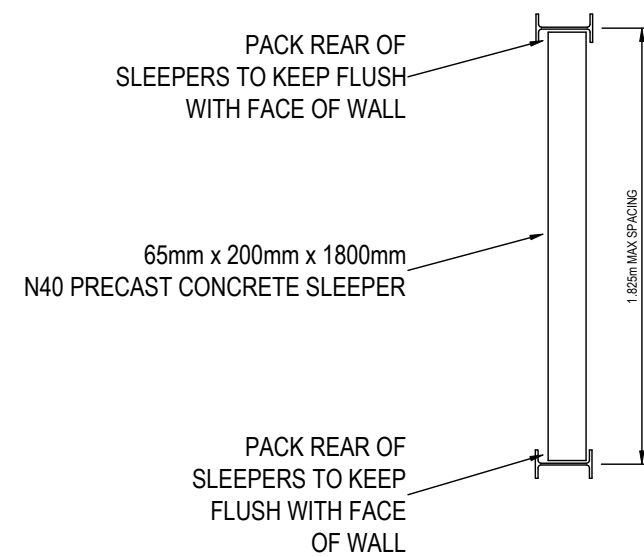
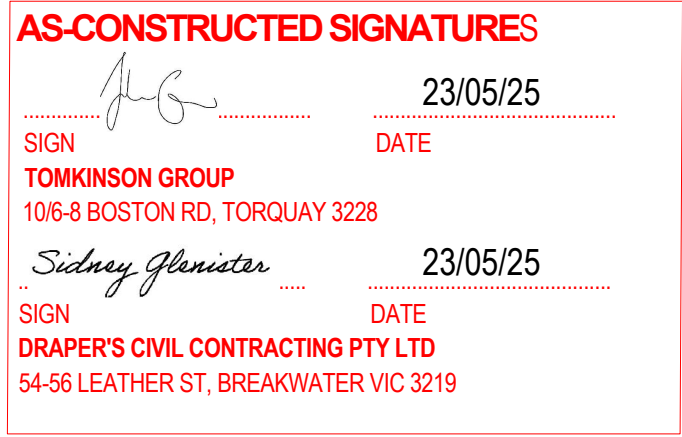


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ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
RETAINING WALL LONGITUDINAL SECTION
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PROJECT & DWG No: REV: AC1

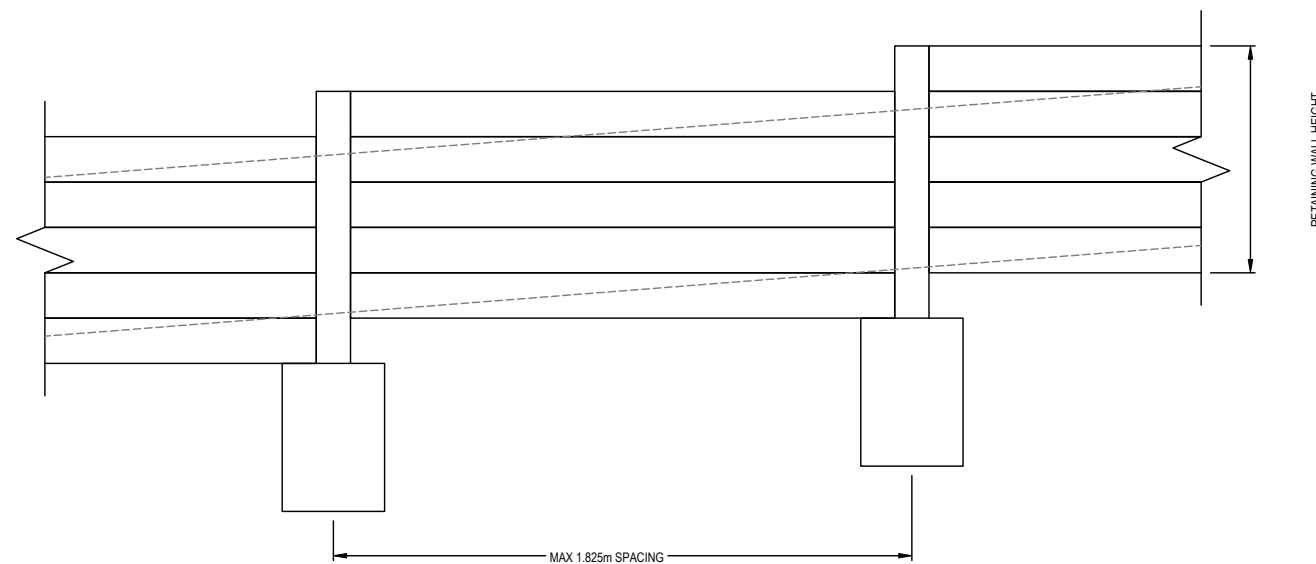
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PLOT DATE: 26/05/2025 FILE: C:\12\DATA\TOM\K80-12DS01\44041 - ASH ROAD LEOPOLD C-VILLAWOOD BENDIGO LEOPOLD_986ENGINEERING\CAD\CURRENT\44041 STAGE 5 ROAD AND DRAINAGE\44041D-05-RD900.DWG



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

TYPICAL RETAINING WALL LONGITUDINAL DETAIL

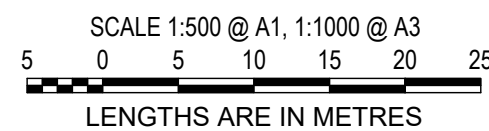
NOT TO SCALE



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



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ESTUARY II - STAGE 04 PP-729-2021

ASH ROAD, LEOPOLD

ROAD AND DRAINAGE

RETAINING WALL LONGITUDINAL SECTION & DETAILS

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

DWG STATUS:	PROJECT & DWG No:	REV
AS CONTRUCTED	A4041D-04-RD903	AC

AC REV **ILS**

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PROJECT NAME: 26052025 EILEY C120 DATA WORKSHEET
PROJECT NO.: 26052025 EILEY C120 DATA WORKSHEET
PROJECT LOCATION: 26052025 EILEY C120 DATA WORKSHEET
PROJECT DESCRIPTION: 26052025 EILEY C120 DATA WORKSHEET
PROJECT STATUS: 26052025 EILEY C120 DATA WORKSHEET
PROJECT START DATE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT END DATE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT MANAGER: 26052025 EILEY C120 DATA WORKSHEET
PROJECT ENGINEER: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SURVEYOR: 26052025 EILEY C120 DATA WORKSHEET
PROJECT DRAWN BY: 26052025 EILEY C120 DATA WORKSHEET
PROJECT CHECKED BY: 26052025 EILEY C120 DATA WORKSHEET
PROJECT APPROVED BY: 26052025 EILEY C120 DATA WORKSHEET
PROJECT REVISIONS: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SCALE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET NO.: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET TOTAL: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET TITLE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET SUBTITLE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET REFERENCE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET NOTES: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET COMMENTS: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET FOOTNOTES: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET APPENDICES: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET REFERENCES: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET SOURCES: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET DISTRIBUTION: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET STORAGE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET DISPOSAL: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET ARCHIVING: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET RETENTION: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET ACCESS: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET SECURITY: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET COMPLIANCE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET LEGISLATION: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET STANDARDS: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET BEST PRACTICE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET QUALITY ASSURANCE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET RISK MANAGEMENT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET CONTINGENCY PLANNING: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET INCIDENT RESPONSE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET BUSINESS CONTINUITY: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET DISASTER RECOVERY: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET CRISIS COMMUNICATIONS: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET MEDIA RELATIONS: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET PUBLIC AFFAIRS: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET STAKEHOLDER ENGAGEMENT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET COMMUNITY OUTREACH: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET PARTNER COLLABORATION: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET SUPPLIER MANAGEMENT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET VENDOR SELECTION: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET CONTRACT MANAGEMENT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET PROCUREMENT STRATEGY: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET LOGISTICS MANAGEMENT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET WAREHOUSE MANAGEMENT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET TRANSPORTATION MANAGEMENT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET CUSTOMER SERVICE: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET SALES SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET MARKETING SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET FINANCIAL SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET HUMAN RESOURCES SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET INFORMATION TECHNOLOGY SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET LEGAL SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET TAX SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET ACCOUNTING SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET COMPLIANCE SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET ENVIRONMENTAL SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET SOCIAL RESPONSIBILITY SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET DIVERSITY & INCLUSION SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET EQUAL OPPORTUNITIES SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET HEALTH & SAFETY SUPPORT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET ENVIRONMENTAL IMPACT ASSESSMENT: 26052025 EILEY C120 DATA WORKSHEET
PROJECT SHEET SOCIAL IMPACT ASSESSMENT: 26052025 EILEY C120 DATA WORKSHEET
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