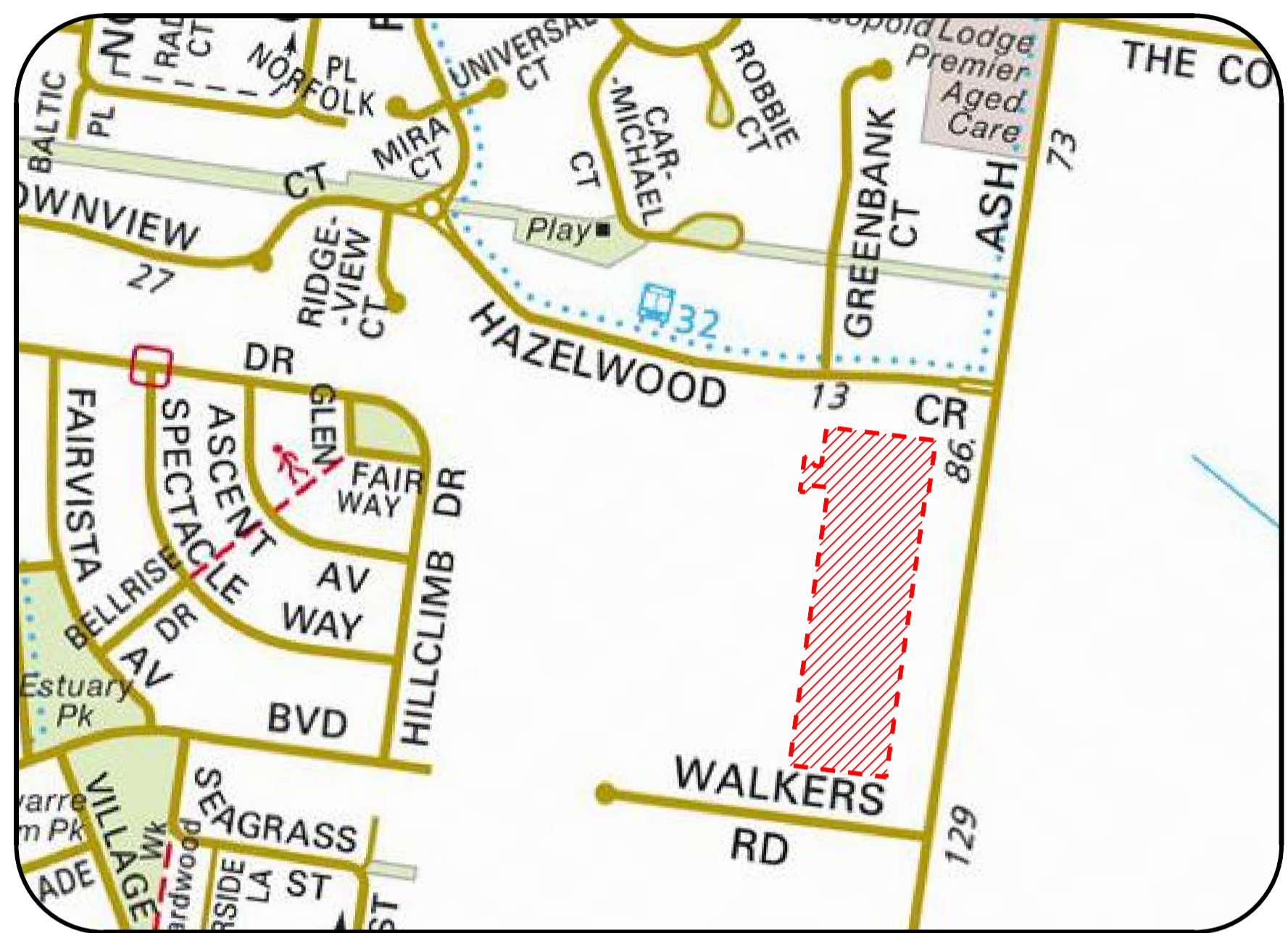


ESTUARY II - STAGE 02

ROAD AND DRAINAGE PLAN ASH ROAD, LEOPOLD



LEGEND

- EXISTING SHRUBS / TREES
- 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.
- EXISTING DRAIN / PIT
- PROPOSED HOUSE DRAIN / EASEMENT CONNECTION
- PROPOSED AG DRAIN
- 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
- ES 101.95 EXISTING NATURAL SURFACE LEVEL
- FS 101.95 FINISHED SURFACE LEVEL
- TK 101.95 PROPOSED BACK OF KERB
- DIRECTION OF LOT GRADING
- DIRECTION OF BASIN GRADING
- PROPOSED FLAT TOP SPEED HUMPS
- 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 TELCO MAIN
- EXISTING TELCO CABLE
- PROPOSED FUTURE TELCO
- PROPOSED CATCH DRAIN
- PROPOSED AG DRAIN
- DESIGN SURFACE
- NATURAL SURFACE
- FILL ABOVE 300mm ALLOWING FOR 200mm STRIPPING
- PROPOSED SEALED PAVEMENT
- PROPOSED CRUSHED ROCK
- PROPOSED CONCRETE FOOTPATH / DRIVEWAY
- PROPOSED ASPHALT FOOTPATH
- PROPOSED ALTERNATE PAVEMENT
- PROPOSED KERB
- PROPOSED NATURESTRIP \ LANDSCAPING
- PROPOSED LOT EARTHWORKS NO TOPSOIL
- PROPOSED OTHER
- PROPOSED ROCK BEACHING
- PROPOSED STAGE BOUNDARY
- PROPOSED RESERVE FENCING, "REFER LANDSCAPE PLANS"
- PROPOSED BOLLARDS

DRAWING LIST

DRAWING No.	TITLE	REV
A4041D.02-RD000	LOCALITY, GENERAL NOTES AND SHEET INDEX PLAN	2
A4041D.02-RD001	EXISTING CONDITIONS	0
A4041D.02-RD100	PLAN OF SUBDIVISIONS SHEET 1 OF 3	0
A4041D.02-RD101	PLAN OF SUBDIVISIONS SHEET 2 OF 3	0
A4041D.02-RD102	PLAN OF SUBDIVISIONS SHEET 3 OF 3	0
A4041D.02-RD200	SITE DETAIL PLAN	1
A4041D.02-RD300	SIGNAGE & LINEMARKING PLAN	1
A4041D.02-RD400	PAVEMENT PLAN	0
A4041D.02-RD500	TYPICAL SECTIONS & TYPICAL DETAILS	0
A4041D.02-RD600	ROAD LONGITUDINAL SECTIONS SEDNA STREET	0
A4041D.02-RD601	ROAD CROSS SECTIONS SEDNA STREET SHEET 1 OF 2	0
A4041D.02-RD602	ROAD CROSS SECTIONS SEDNA STREET SHEET 2 OF 2	0
A4041D.02-RD610	ROAD LONGITUDINAL SECTIONS DELMARE DRIVE	0
A4041D.02-RD611	ROAD CROSS SECTIONS DELMARE DRIVE	0
A4041D.02-RD700	INTERSECTION DETAILS	0
A4041D.02-RD800	DRAINAGE LONGITUDINAL SECTIONS	0
A4041D.02-RD801	DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE	1
A4041D.02-RD900	RETAINING WALL DETAIL PLAN	0
A4041D.02-RD901	BULK EARTHWORKS	0

AS-CONSTRUCTED SIGNATURES

[Signature] SIGN DATE
 TOMKINSON GROUP
 1016-8 BOSTON RD, TORQUAY 3228

[Signature] SIGN DATE
 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	2.2m STH	2.7m STH	1.8m NTH	1.65m STH	2.4m NTH	1.00m BOK	4.20N / 4.20S	1.0m NTH / STH
SEDNA STREET	2.2m EST	2.7m EST	1.8m WST	1.65m EST	2.4m WST	1.00m BOK	4.20E / 4.20W	1.0m EST / WST

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 SERVING 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
 - 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.
- 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.

- PROTECTION OF VEGETATION**
- NO WORKS ARE TO BE UNDERTAKEN WITHIN THE DRIP ZONE (CANOPY) OF AN EXISTING TREE UNLESS APPROVED BY THE RESPONSIBLE AUTHORITY.
 - MACHINERY IS NOT TO BE DRIVEN OVER OR PARKED WITHIN THE DRIP ZONE OF ANY TREE.
- 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 AS 3798-1996 ("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.
- ROAD WORKS AND FOOTPATHS**
- ALL KERB & CHANNEL IS B2 (IDM SD100) UNLESS STATED OTHERWISE.
- STORMWATER DRAINAGE AND SERVICE CONDUIT NOTES**
- ALL EASEMENT DRAINAGE PIPES ARE TO BE 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 CL 16.10) 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.
 - A CLOSED-CIRCUIT COLOUR TELEVISION (CCTV) INSPECTION OF ALL OF THE UNDERGROUND ASSETS TO
- 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	132 236
GAS	AUSNET GAS	1800 088 208
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.

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.

AC	AS CONSTRUCTED	MM	SP	MM	19/08/24
2	DRAWING LIST REVISIONS UPDATED SIGNAGE AND LINEMARKING PLAN UPDATED	MM	MK	MM	18/04/24
1	DRAWING LIST REVISIONS UPDATED DUE TO PIT SIZE UPDATE	MM	MM	MM	30/11/23
0	CONSTRUCTION ISSUE	MM	MM	MM	30/10/23
C	UPDATE DRAWING LIST, ADD AG DRAIN TO LEGEND	NC	RQ	MM	24/10/23
B	AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC	NC	MM	30/08/23
A	PRELIMINARY ISSUE	NC	PW	MM	27/03/23
REV	REVISION	DES	DWG	CHK	DATE



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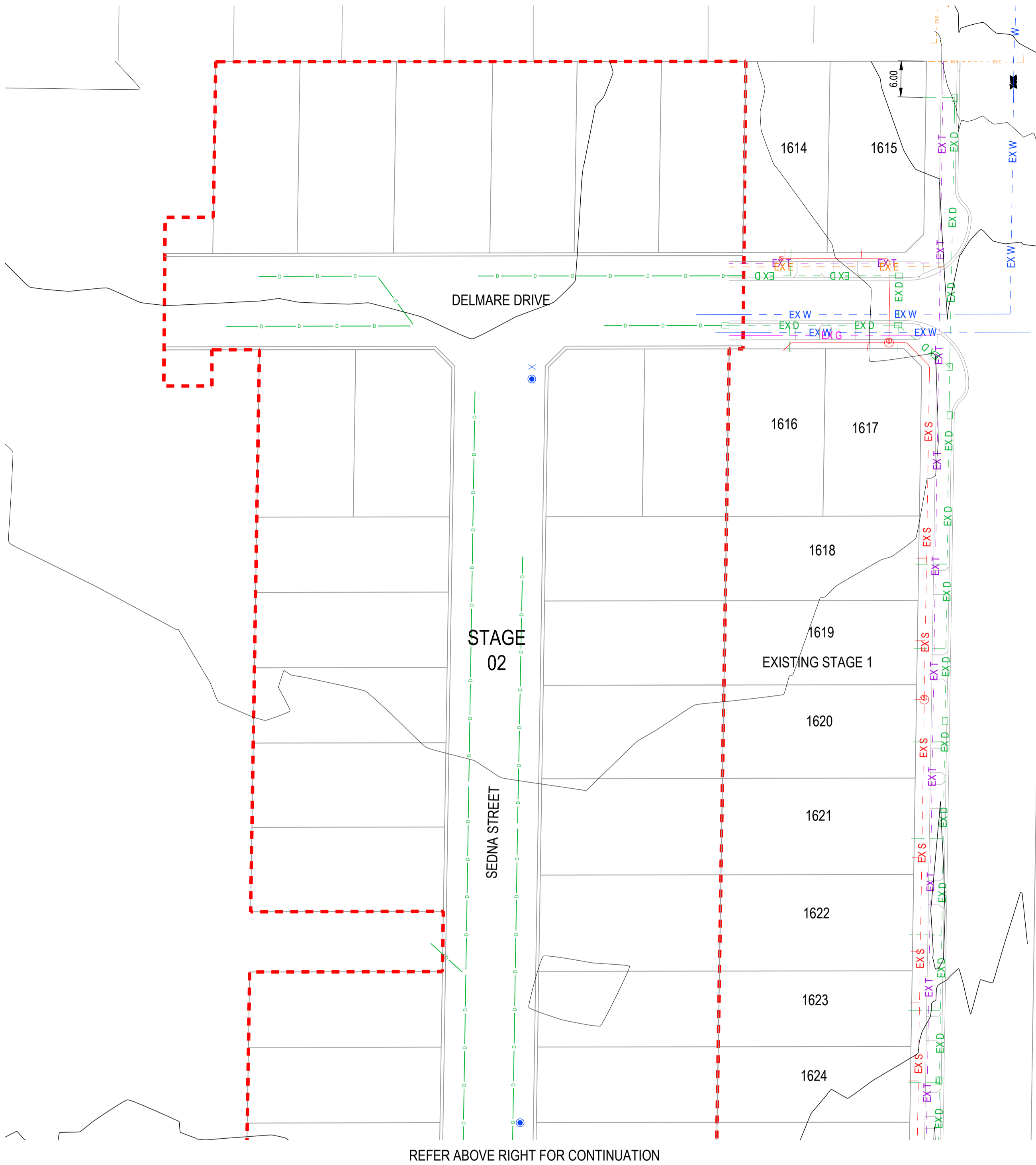
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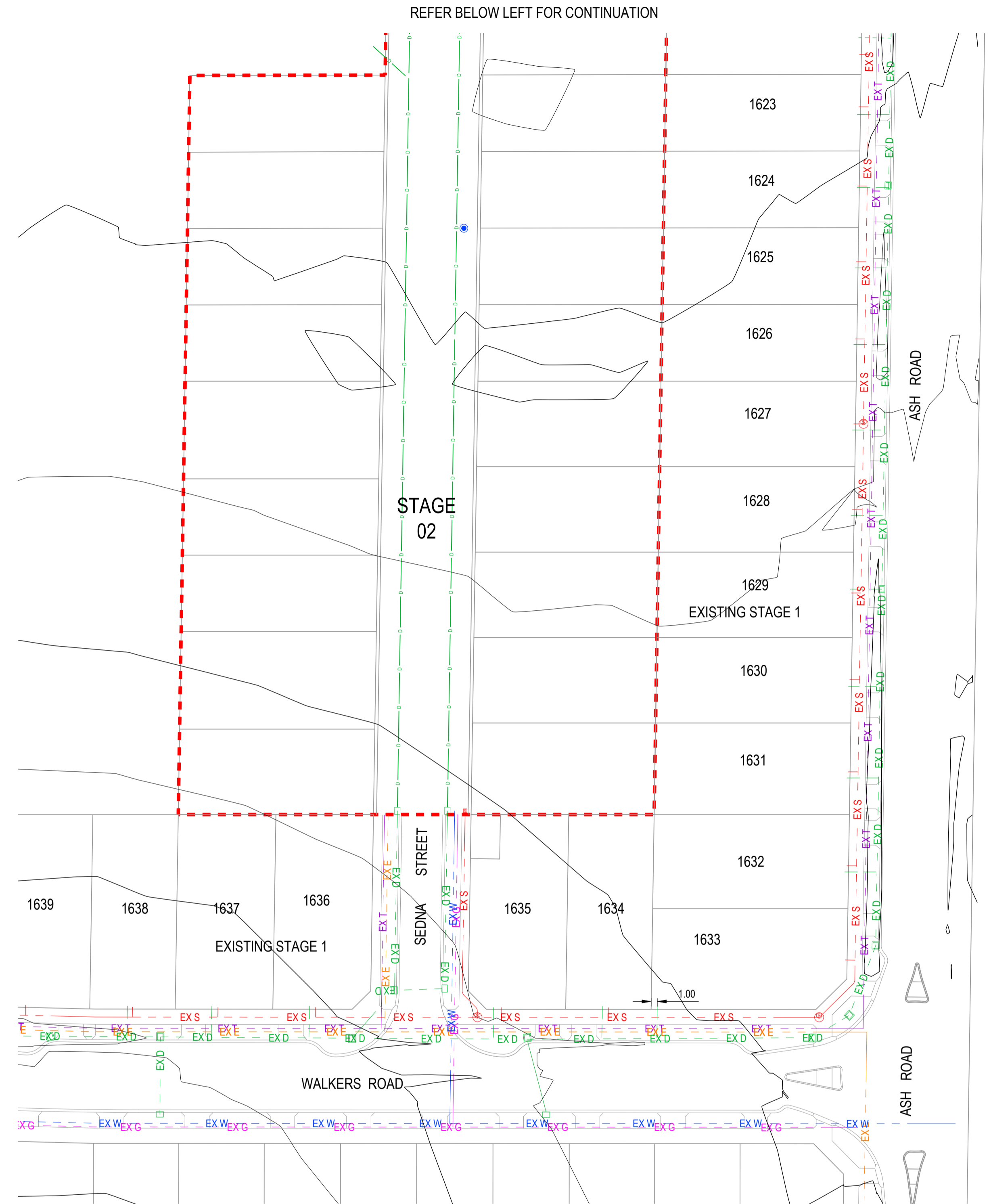
ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
 ROAD AND DRAINAGE LOCALITY, GENERAL NOTES AND SHEET INDEX PLAN
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: PROJECT & DWG No: A4041D-RD000
 REVISION: AS CONSTRUCTED

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 PLOT DATE: 20/08/2024 FILE: C:\120 DRAWING\BGO-12DS01\A4041 - ASH ROAD, LEOPOLD - C:\120 DRAWING\BGO-12DS01\A4041 - STAGE 02 ROAD AND DRAINAGE\A4041D.02-RD000.DWG



REFER ABOVE RIGHT FOR CONTINUATION



REFER BELOW LEFT FOR CONTINUATION

AS-CONSTRUCTED SIGNATURES

SIGN: *[Signature]* DATE: _____
TOMKINSON GROUP
 10/6-8 BOSTON RD, TORQUAY 3228

SIGN: *[Signature]* 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
TBM 1	Spike - Ash Road	278 159.858	5 768 833.802	48.124 AHD
TBM 2	Spike - Ash Road	278 193.334	5 769 062.922	49.322 AHD
TBM 3	Rivet Concrete Path - Ash Road	278 142.0502	5 768 786.098	49.925 AHD

AC AS CONSTRUCTED	MM SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE



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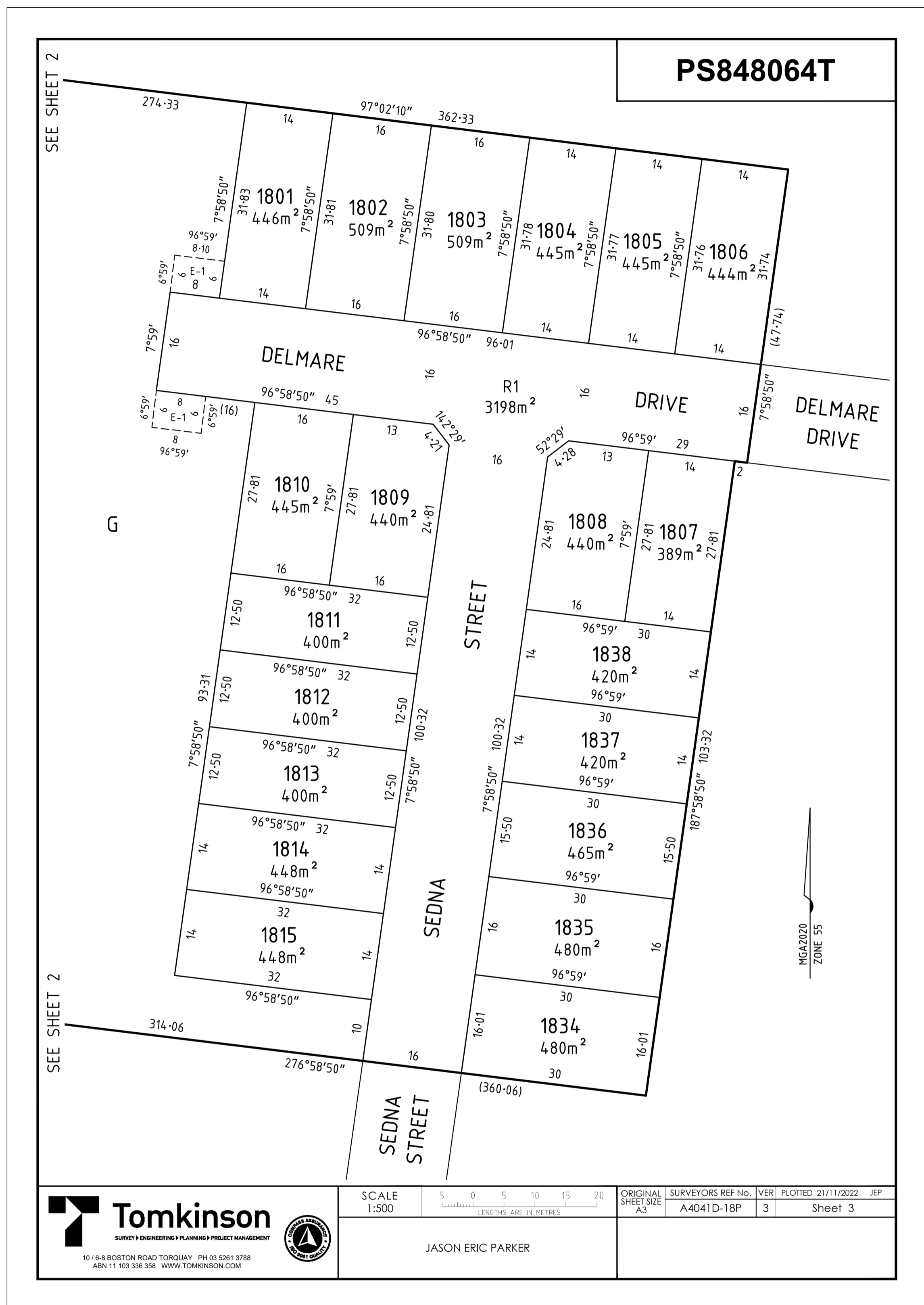
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 LENGTHS ARE IN METRES



ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
EXISTING CONDITIONS
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **AS CONSTRUCTED** PROJECT & DWG No: A4041D-RD001

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SIGN  DATE

TOMKINSON GROUP
1016-8 BOSTON RD, TORQUAY 3228

Sidney Glanister

SIGN _____ DATE

DRAPER'S CIVIL CONTRACTING PTY LTD
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SCALE 1:500

5 0 5 10 15 20
LENGTHS ARE IN METRES

ORIGINAL SHEET SIZE A3

SURVEYORS REF No. A4041D-18P

VER. 3

PLOTTED 21/11/2022 JEP

Sheet 3

JASON ERIC PARKER

AC AS CONSTRUCTED	MM SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE



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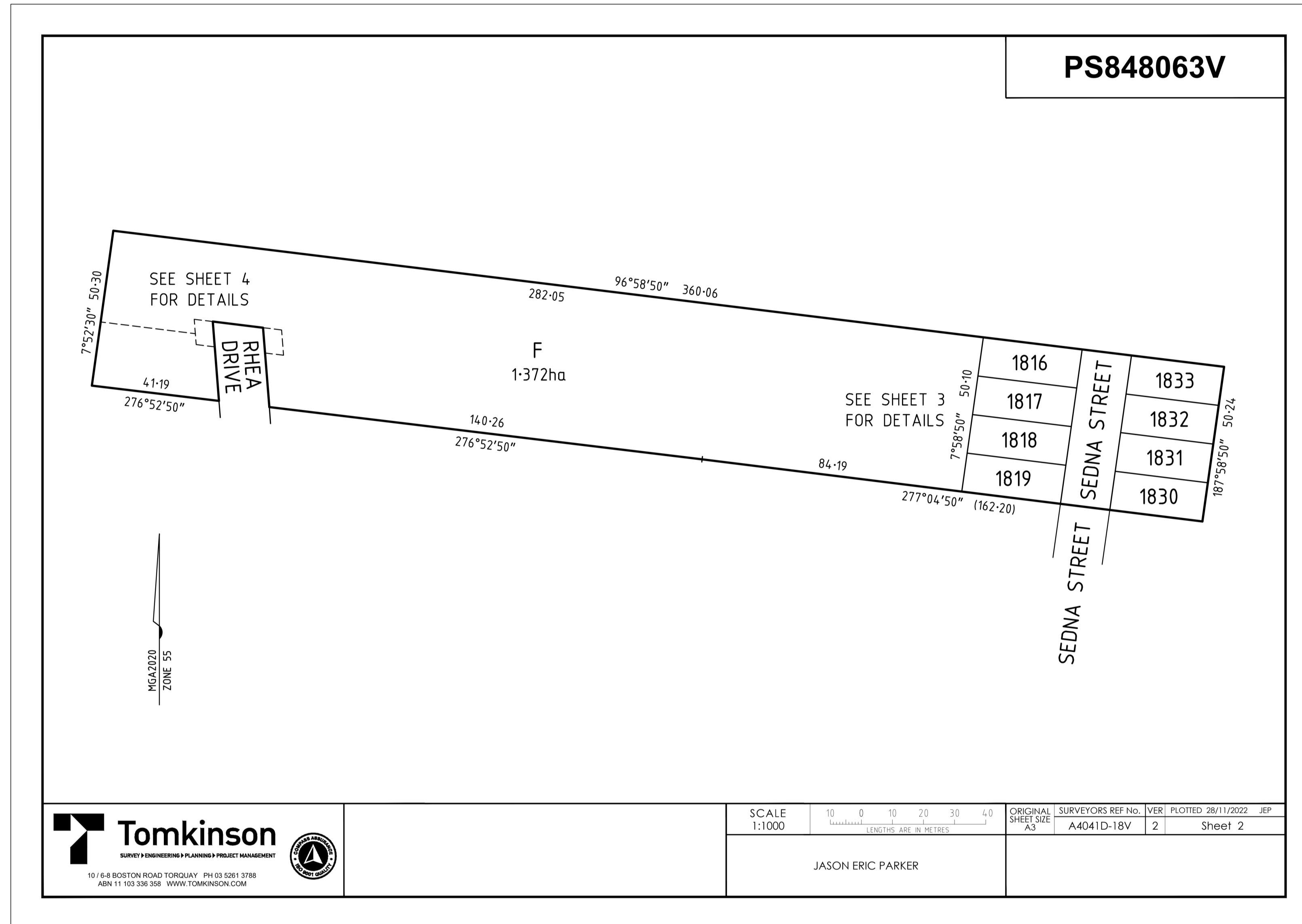


ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
PLAN OF SUBDIVISION SHEET 1 OF 3

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

DWG STATUS: PROJECT & DWG No: **AS CONSTRUCTED** A4041D-RD100

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SCALE	1:1000	10 0 10 20 30 40	ORIGINAL SHEET SIZE	A4041D-18V	SURVEYORS REF No.	VER	2	PLOTTED	28/11/2022	JEP
		LENGTHS ARE IN METRES							Sheet 2	
JASON ERIC PARKER										

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

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

AC AS CONSTRUCTED	MM SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE



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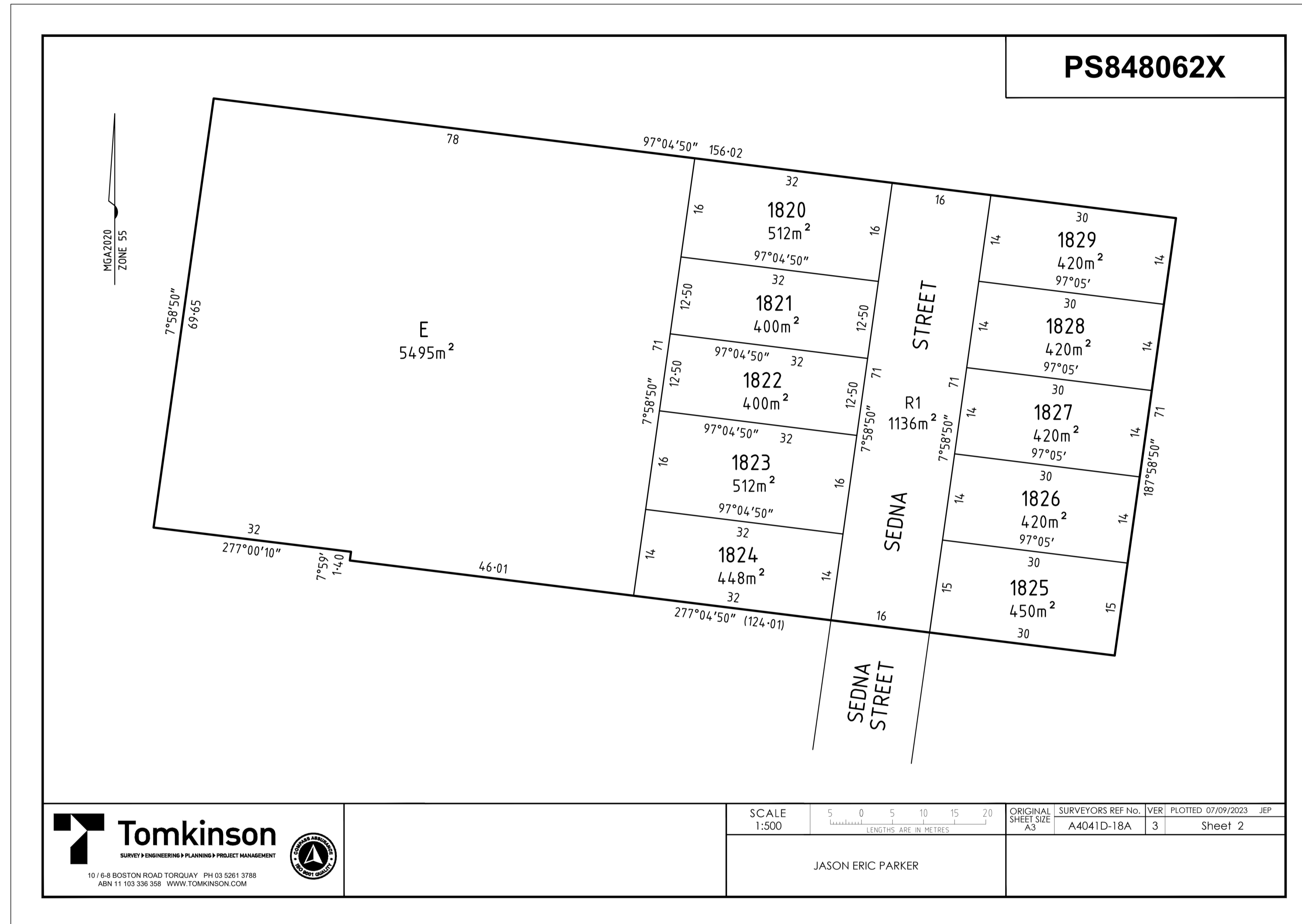
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 LENGTHS ARE IN METRES



ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
PLAN OF SUBDIVISION SHEET 2 OF 3
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: PROJECT & DWG No: **AS CONSTRUCTED** A4041D-RD101

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AS-CONSTRUCTED SIGNATURES

SIGN DATE

TOMKINSON GROUP
1016-8 BOSTON RD, TORQUAY 3228

SIGNATURE

SIGN DRAPER'S CIVIL CONTRACTING PTY LTD DATE

54-56 LEATHER ST, BREAKWATER VIC 3219

AC	AS CONSTRUCTED	MM	SP	MM	19/08/24
0	CONSTRUCTION ISSUE	MM	MM	MM	30/10/23
C	UPDATE TO VERSION 3	NC	RQ	MM	24/10/23
B	AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC	NC	MM	30/08/23
A	PRELIMINARY ISSUE	NC	PW	MM	27/03/23
REV	REVISION	DES	DWG	CHK	DATE



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SCALE N/A
LENGTHS ARE IN METRES




ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
PLAN OF SUBDIVISION SHEET 3 OF 3

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

DWG STATUS: PROJECT & DWG No: **AS CONSTRUCTED** A4041D-RD102

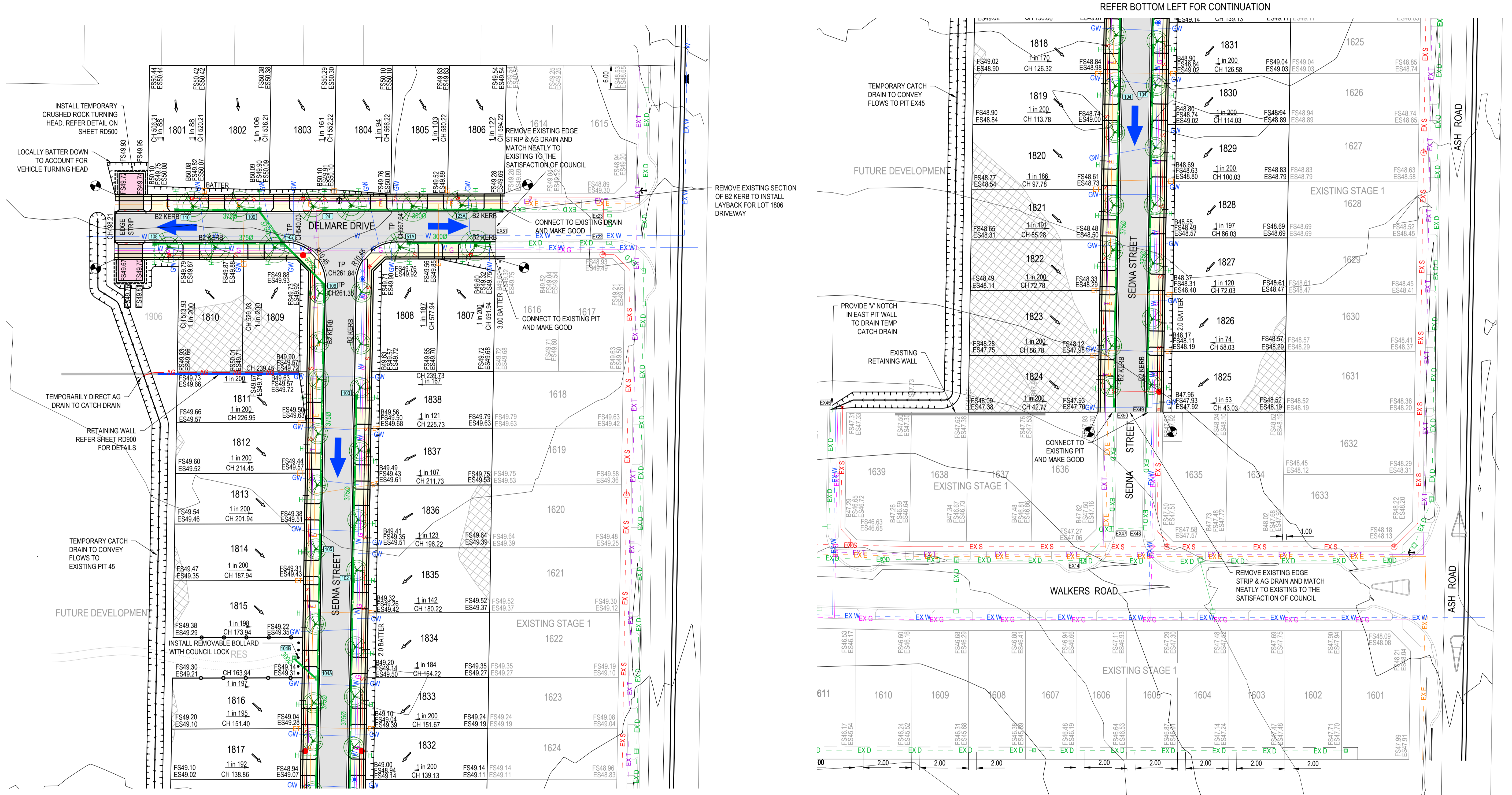
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AS-CONSTRUCTED SIGNATURES

SIGN  DATE _____
TOMKINSON GROUP
 106-8 BOSTON RD, TORQUAY 3228
 Sidney Glenister
 SIGN _____ DATE _____
DRAPER'S CIVIL CONTRACTING PTY LTD
 54-56 LEATHER ST, BREAKWATER VIC 3219

NOTE:

- CROSSOVERS AT RESERVES TO HAVE NO BULL NOSE TO ENSURE THERE IS NO HINDRANCE OF PEDESTRIANS USING TO CROSS THE ROAD.
- BOLLARDS TO BE INSTALLED ALONG ALL RESERVE ENTRIES ADJACENT ROAD RESERVE BOUNDARY.
- 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 CCG701 FOR TYPICAL BOLLARD DETAIL.
- RESERVE BOUNDARIES ADJACENT LOTS TO BE FULLY FENCED. REFER TO LANDSCAPING PLANS FOR DETAILS.



REFER TOP RIGHT FOR CONTINUATION

REFER BOTTOM LEFT FOR CONTINUATION

REV	REVISION	DES	DWG	CHK	DATE
AC	AS CONSTRUCTED	MM	SP	MM	19/08/24
1	PIT SIZES UPDATED FOR PITS 101, 102, 104, 105.	MM	MM	MM	30/11/23
0	CONSTRUCTION ISSUE	MM	MM	MM	30/10/23
C	UPDATE HATCHING ON TURNING AREA, ADD AG DRN, ADD ELEC & TELCO CROSSINGS, ADD LOT SLOPES AND DRAINAGE/PIT TO RESERVE	NC	RQ	MM	16/10/23
B	AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC	NC	MM	30/08/23
A	PRELIMINARY ISSUE	NC	PW	MM	27/03/23



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 ABN 11 103 336 358 WWW.TOMKINSON.COM



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

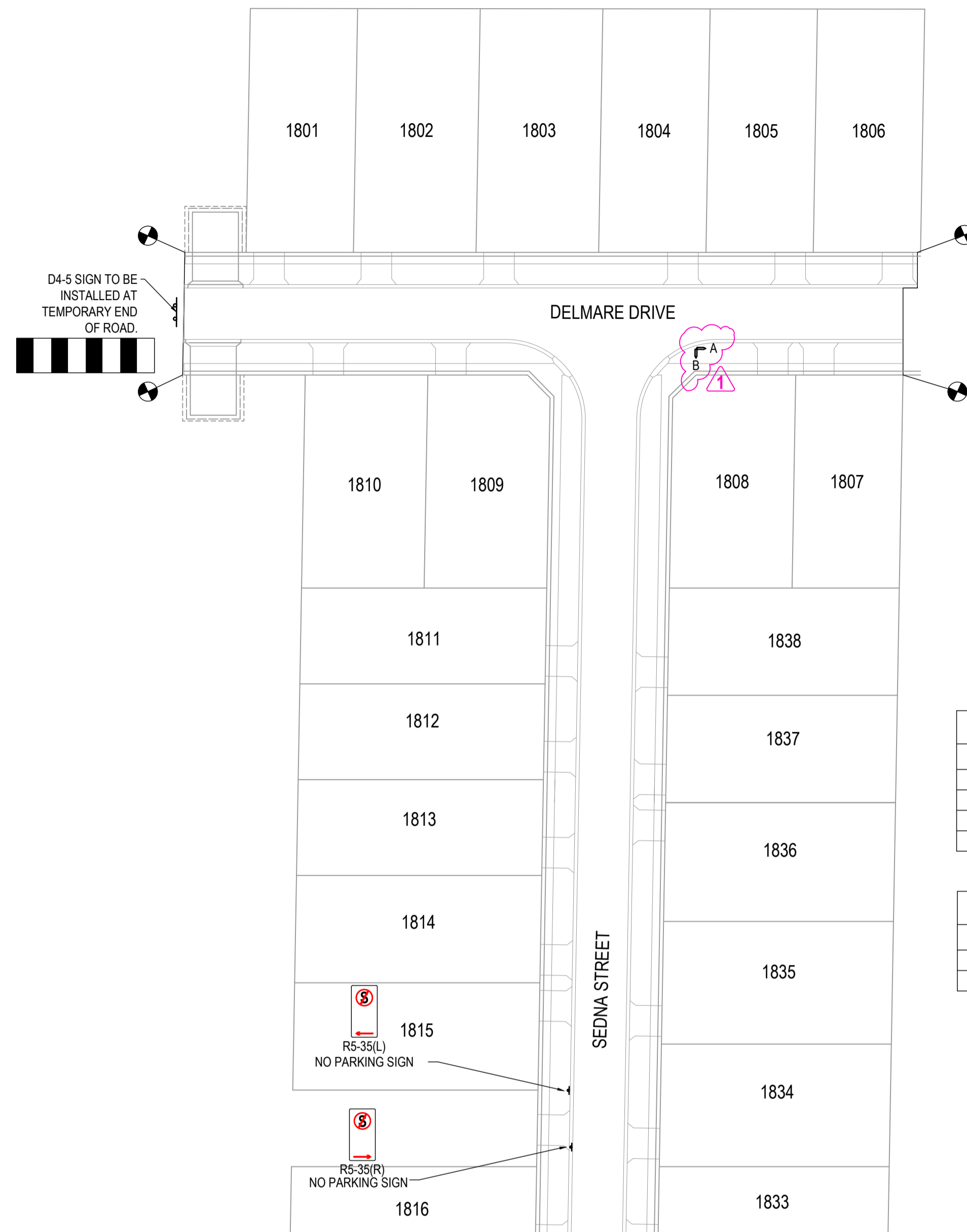
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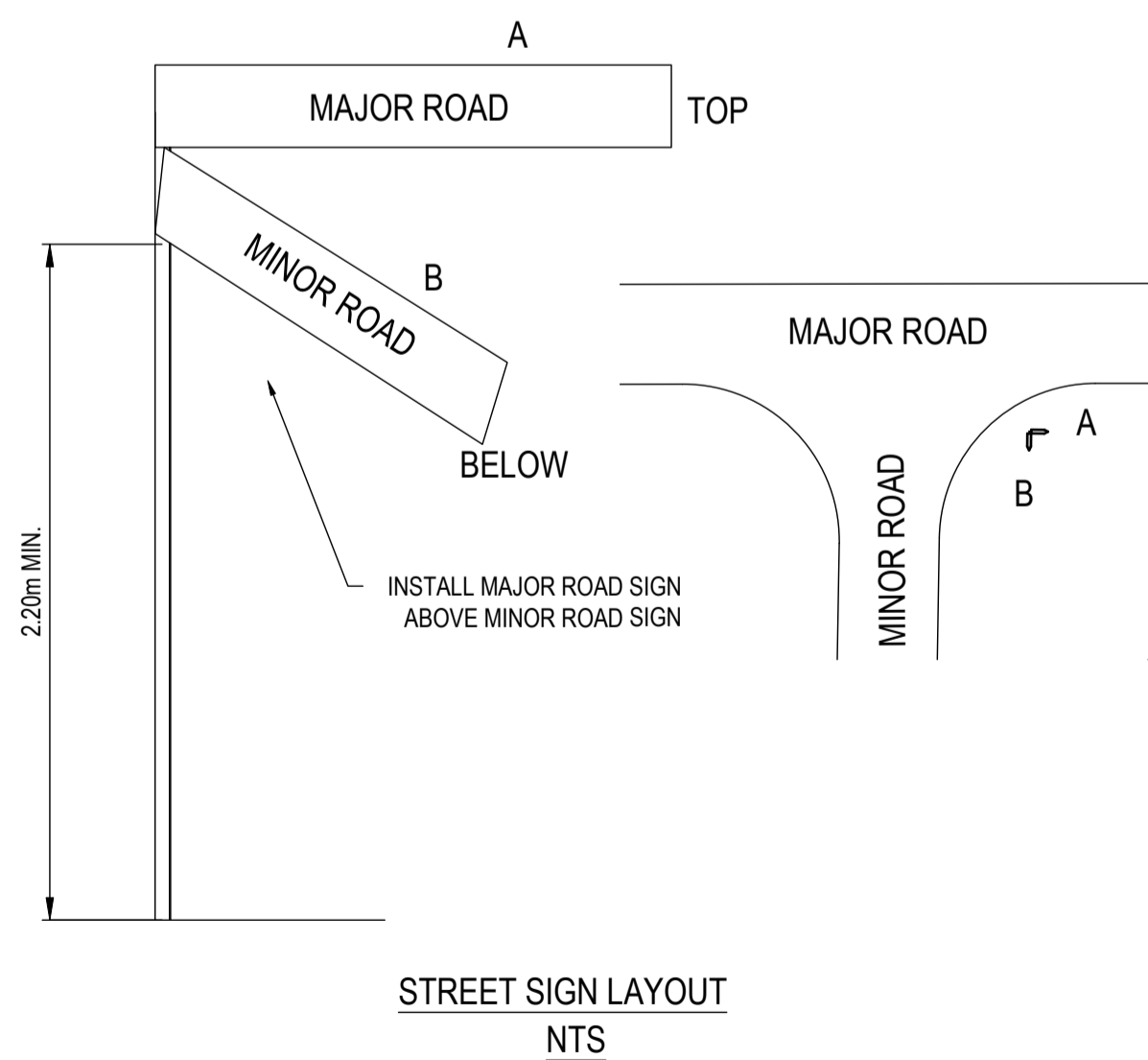
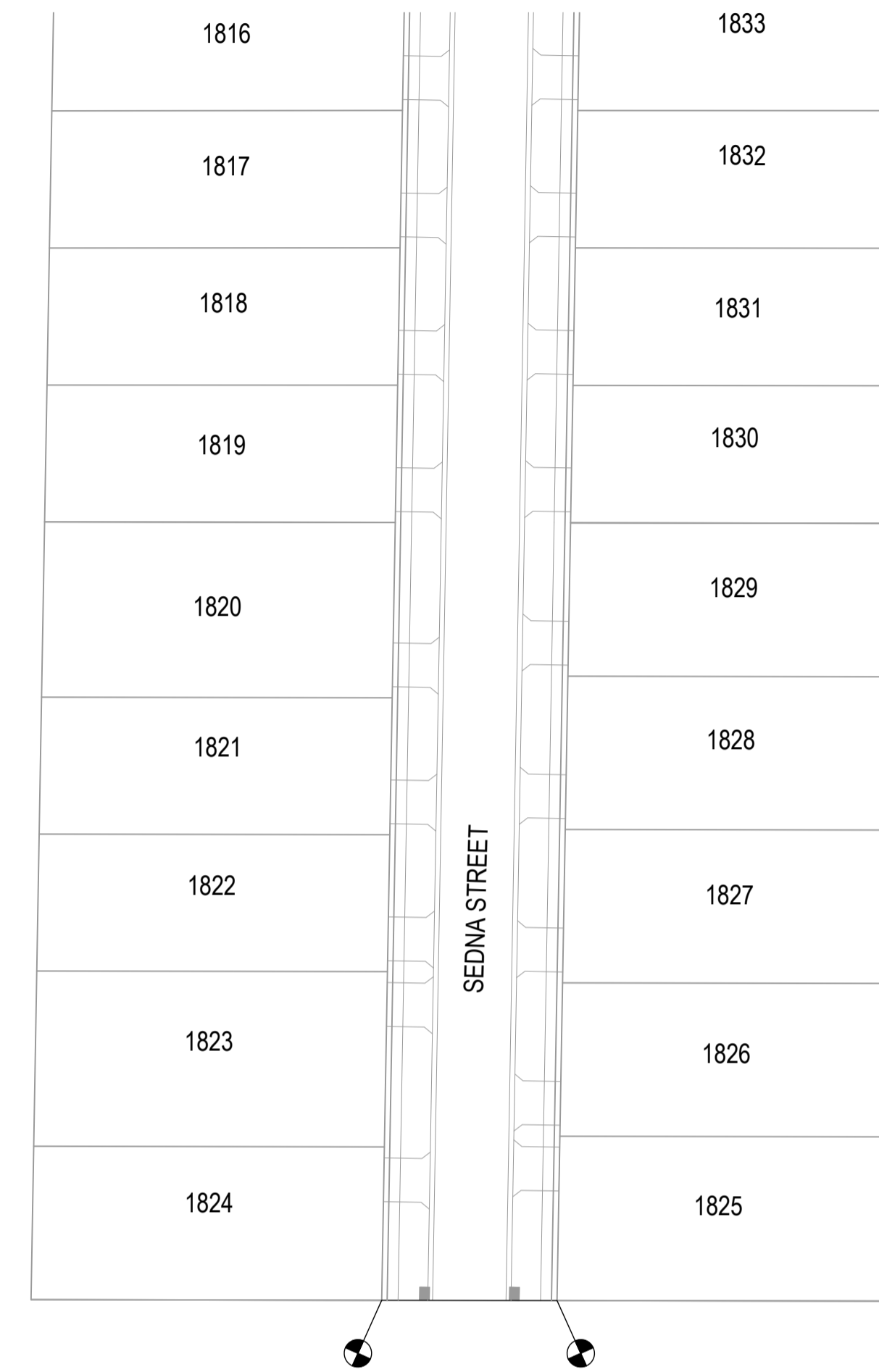
ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD ROAD AND DRAINAGE LAYOUT PLAN
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: _____ PROJECT & DWG No: _____ REV: _____
AS CONSTRUCTED A4041D-RD200

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ROAD SIGN SCHEDULE		
TYPE	SIGN NAME	QTY
GS SERIES	STREET SIGN	2
D4-5	TEMPORARY END OF ROAD	1
R5-35 (L)	NO STOPPING SIGN	1
R5-35 (R)	NO STOPPING SIGN	1

STREET SIGN SCHEDULE		
SIGN	SIGN NAME	QTY
A	DELMARE DR	1
B	SEDNA ST	1



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 C6G710 - 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.

AS-CONSTRUCTED SIGNATURES

SIGN *JG* DATE

TOMKINSON GROUP
106-8 BOSTON RD, TORQUAY 3228

Sidney Ghanister

SIGN

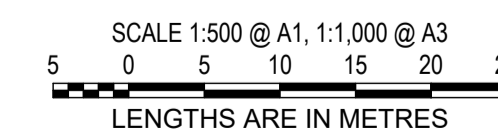
DRAPER'S CIVIL CONTRACTING PTY LTD
54-56 LEATHER ST, BREAKWATER VIC 3219

AC AS CONSTRUCTED	MM SP MM 19/08/24
1 CHANGE SIGN NAMES, ADD SIGN LABELS, REMOVE SIGN IMAGES	MM MK MM 18/04/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE



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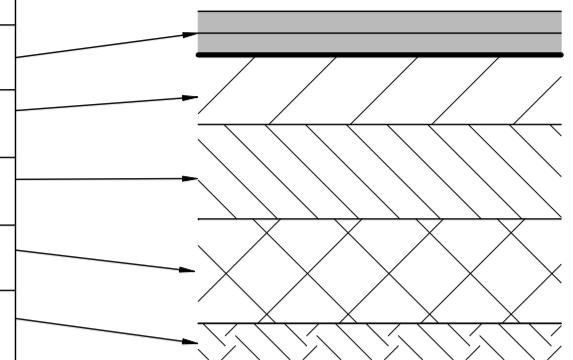
ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: PROJECT & DWG No: **AS CONSTRUCTED** A4041D-RD300

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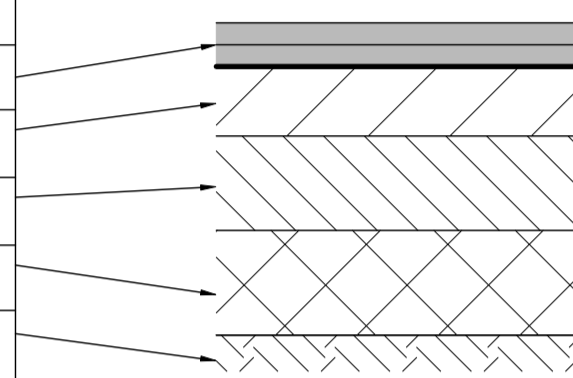
SEDNA STREET

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

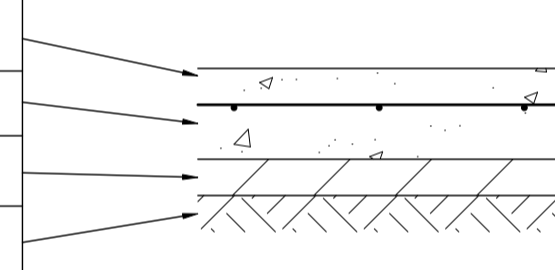


DELMARE DRIVE

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

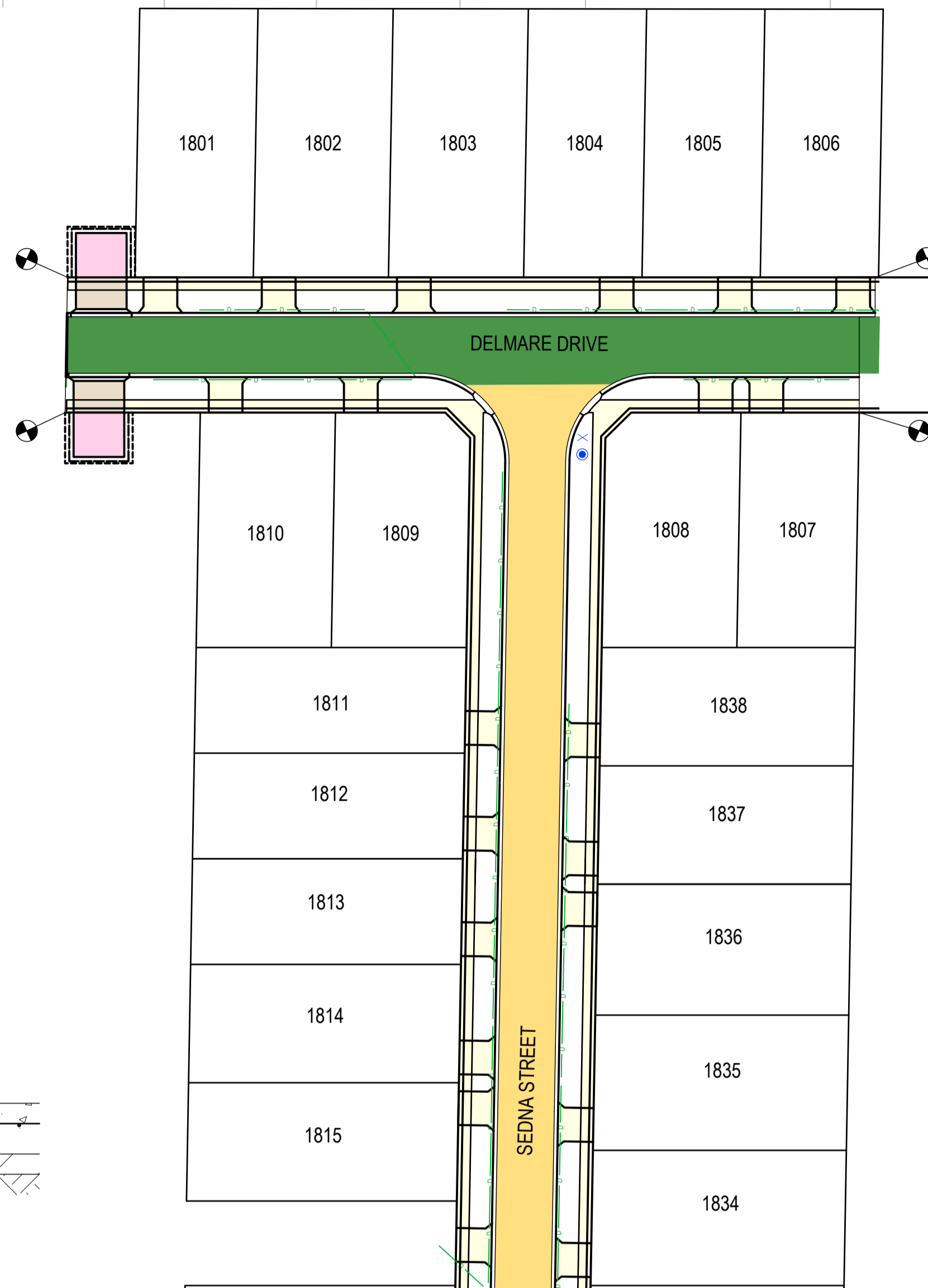
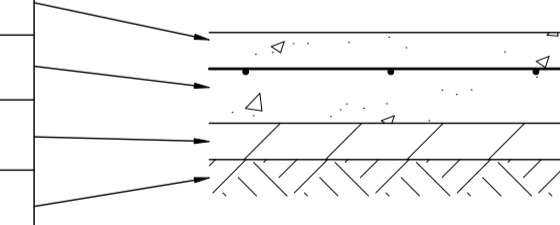


CONCRETE FOOTPATH, SHARED PATH PAVEMENT AND DRIVEWAY DETAILS (IDM SD 205) & COGG DESIGN NOTE 12		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 25MPa 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

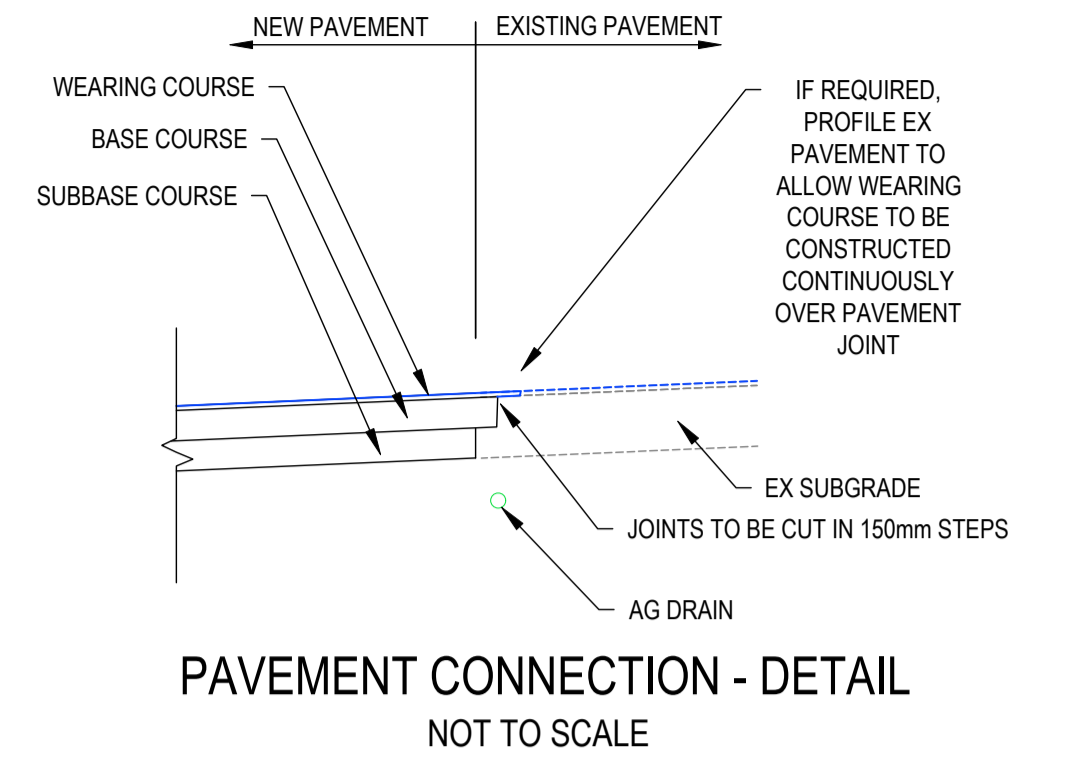


GRAVEL PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 BASE COURSE	250	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK

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



REFER TOP RIGHT FOR CONTINUATION



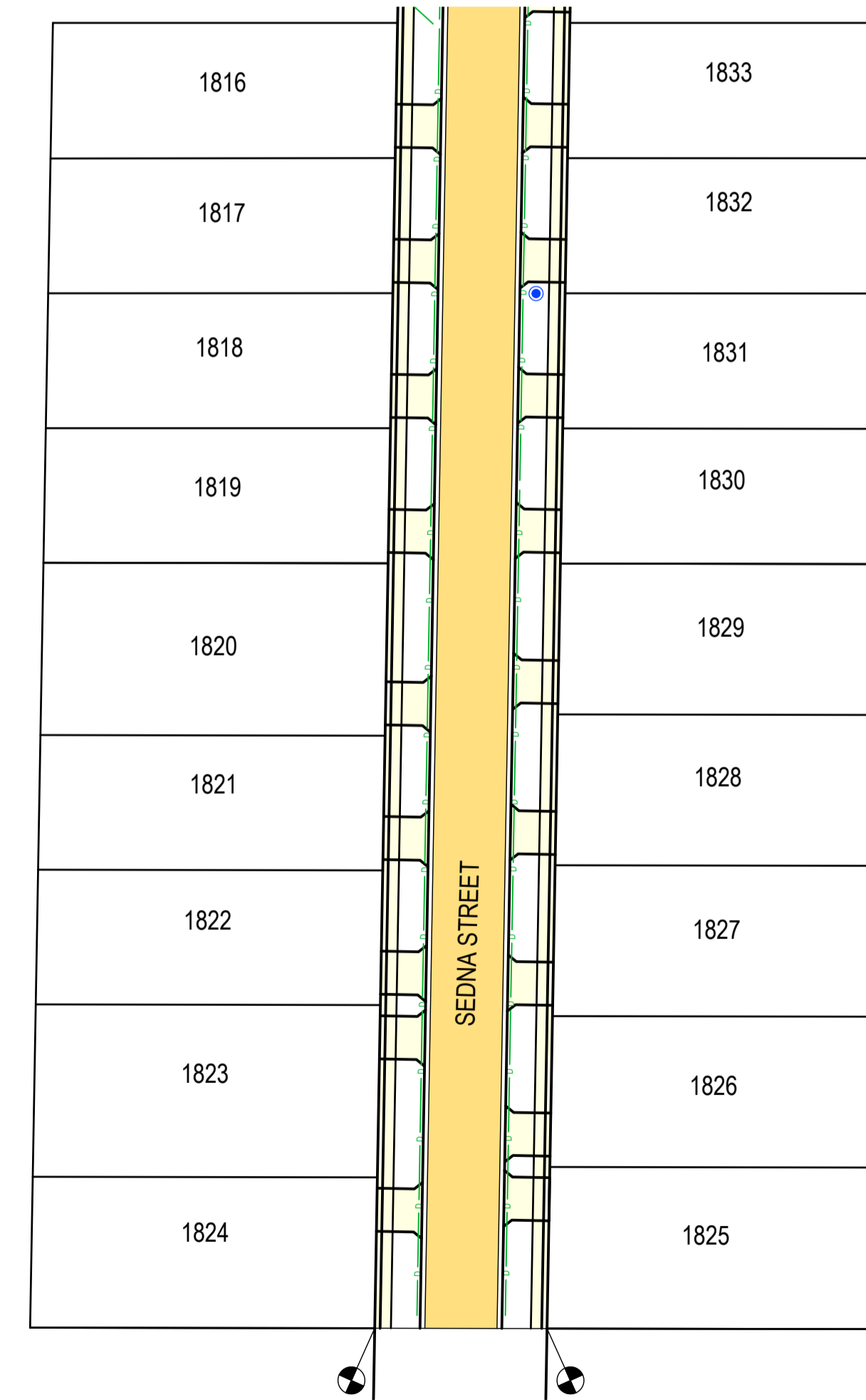
AS-CONSTRUCTED SIGNATURES

SIGN *JG* DATE
TOMKINSON GROUP
10/6-8 BOSTON RD, TORQUAY 3228

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

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.

REFER BOTTOM LEFT FOR CONTINUATION



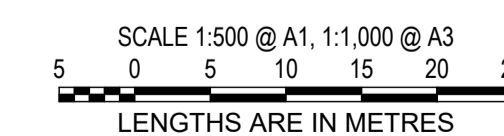
- PAVEMENT NOTES:**
- ROAD PAVEMENT COMPOSITIONS TO BE AS PER GEOTECHNICAL REPORT "ESTUARY II ESTATE, 6981/22/410 ASH ROAD LEOPOLD" PREPARED BY GEOTEST CIVIL SERVICES
 - PAVEMENT BASE COURSES ARE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% MODIFIED WITH MOISTURE CONTENT WITHIN ±3% OF MODIFIED OPTIMUM MOISTURE CONTENT (MOMC).
 - 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).
 - 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).
 - PAVEMENT LAYERS SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm THICKNESS.
 - SUBGRADE PREPARATION AND ENGINEERED FILL CONSTRUCTION (PAVEMENTS) TO BE IN ACCORDANCE WITH RELEVANT STANDARDS.
 - 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.
 - PRIOR TO PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENT, APPROVAL OF THE MATERIAL TO BE USED MUST BE OBTAINED FROM COUNCIL.
 - ALL CONCRETE WORKS TO ABIDE WITH CITY OF GREATER GEELONG'S DESIGN NOTE No 12 ISSUED 2020.

AC AS CONSTRUCTED	MM SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
C TURN AROUND AREA AMENDED AS PER COUNCIL COMMENTS 5/10/23	NC RQ MM 24/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE



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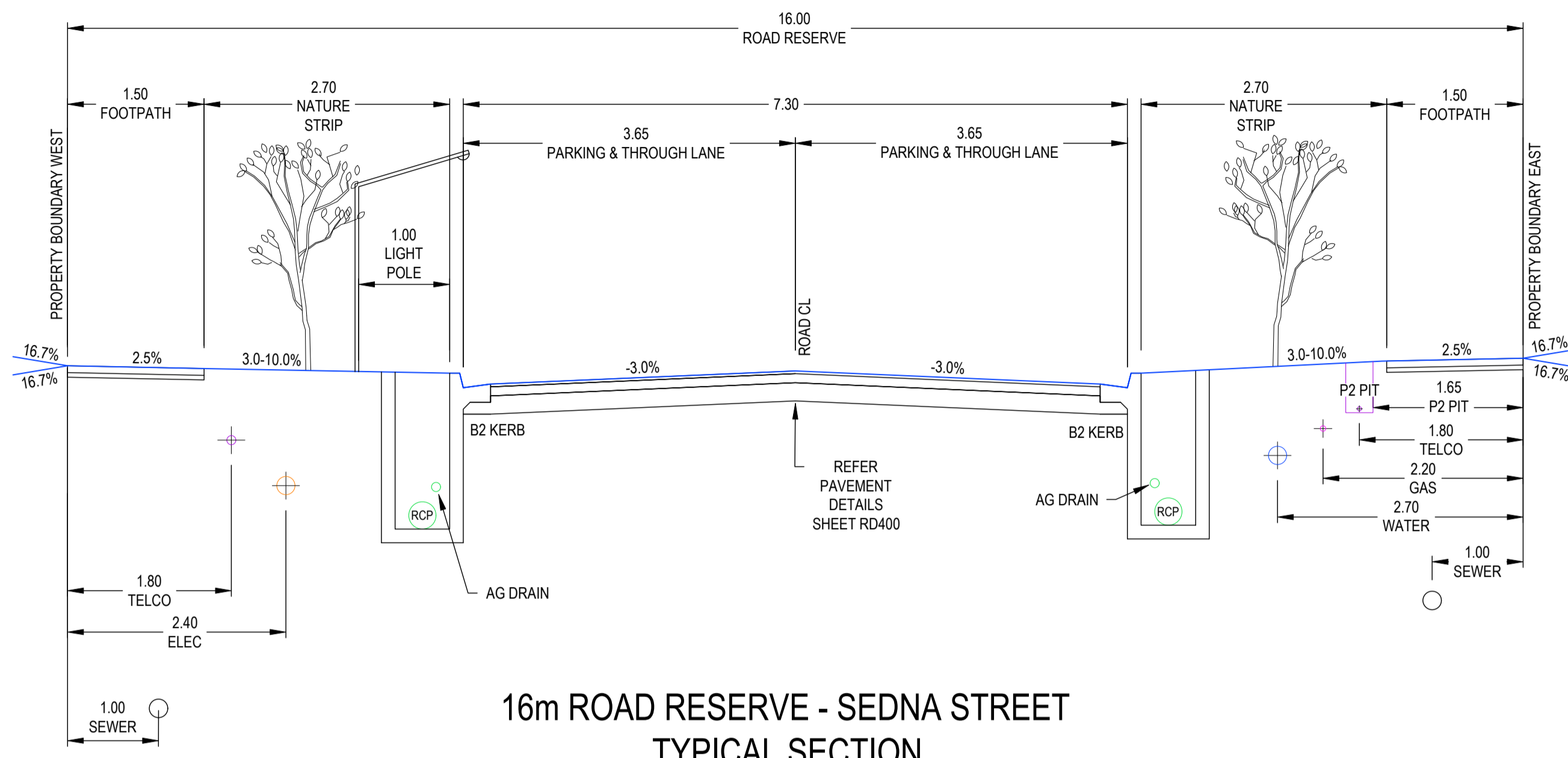
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ABN 11 103 336 358 WWW.TOMKINSON.COM



ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
PAVEMENT PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD LEOPOLD PTY LTD

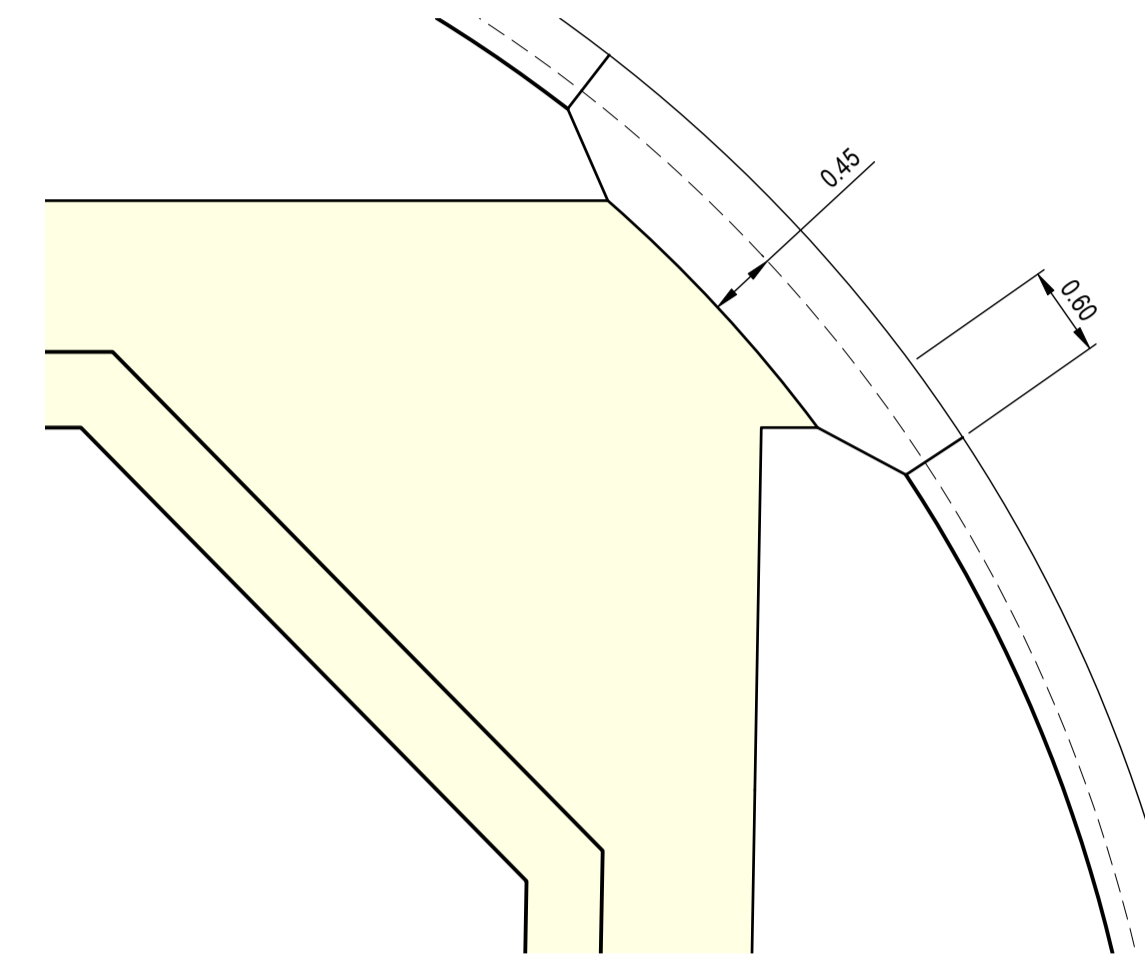
DWG STATUS: **AS CONSTRUCTED** PROJECT & DWG No: A4041D-RD400

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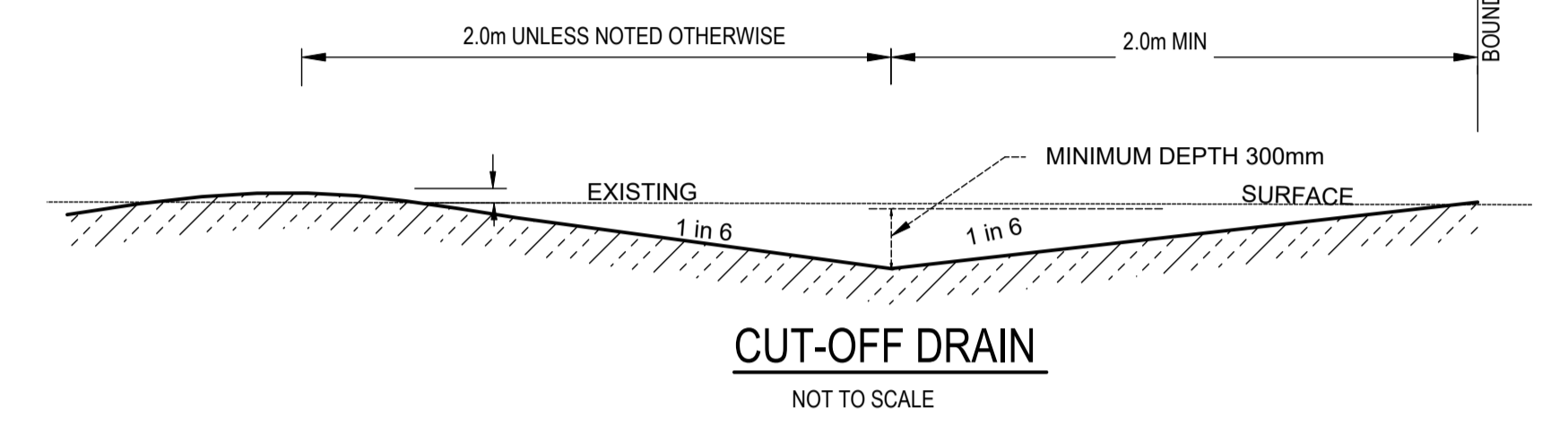
16m ROAD RESERVE - SEDNA STREET
TYPICAL SECTION

SCALE N/A
LENGTHS ARE IN METRES

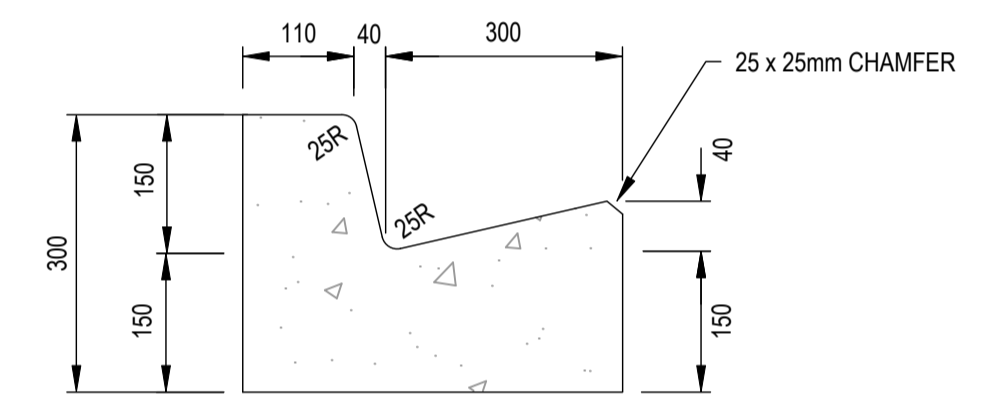


TYPICAL - PRAM CROSSING DETAIL

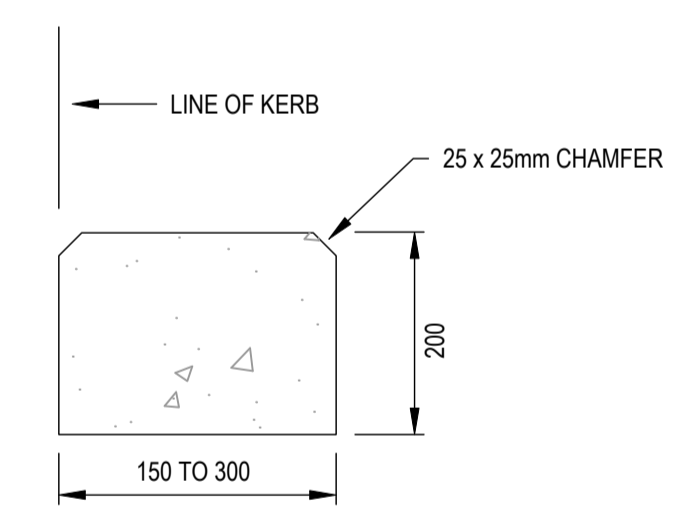
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LENGTHS ARE IN METRES



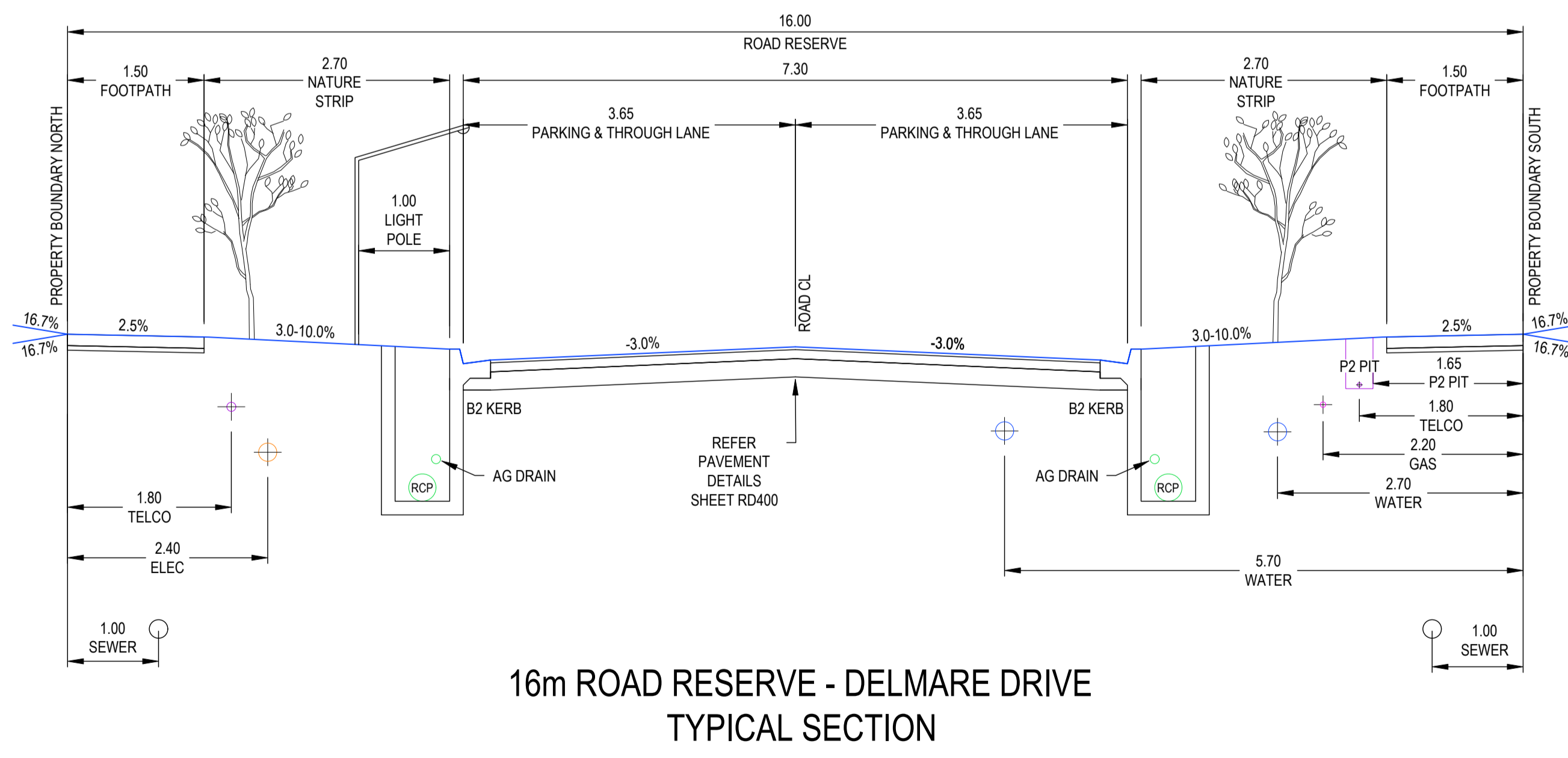
CUT-OFF DRAIN
NOT TO SCALE



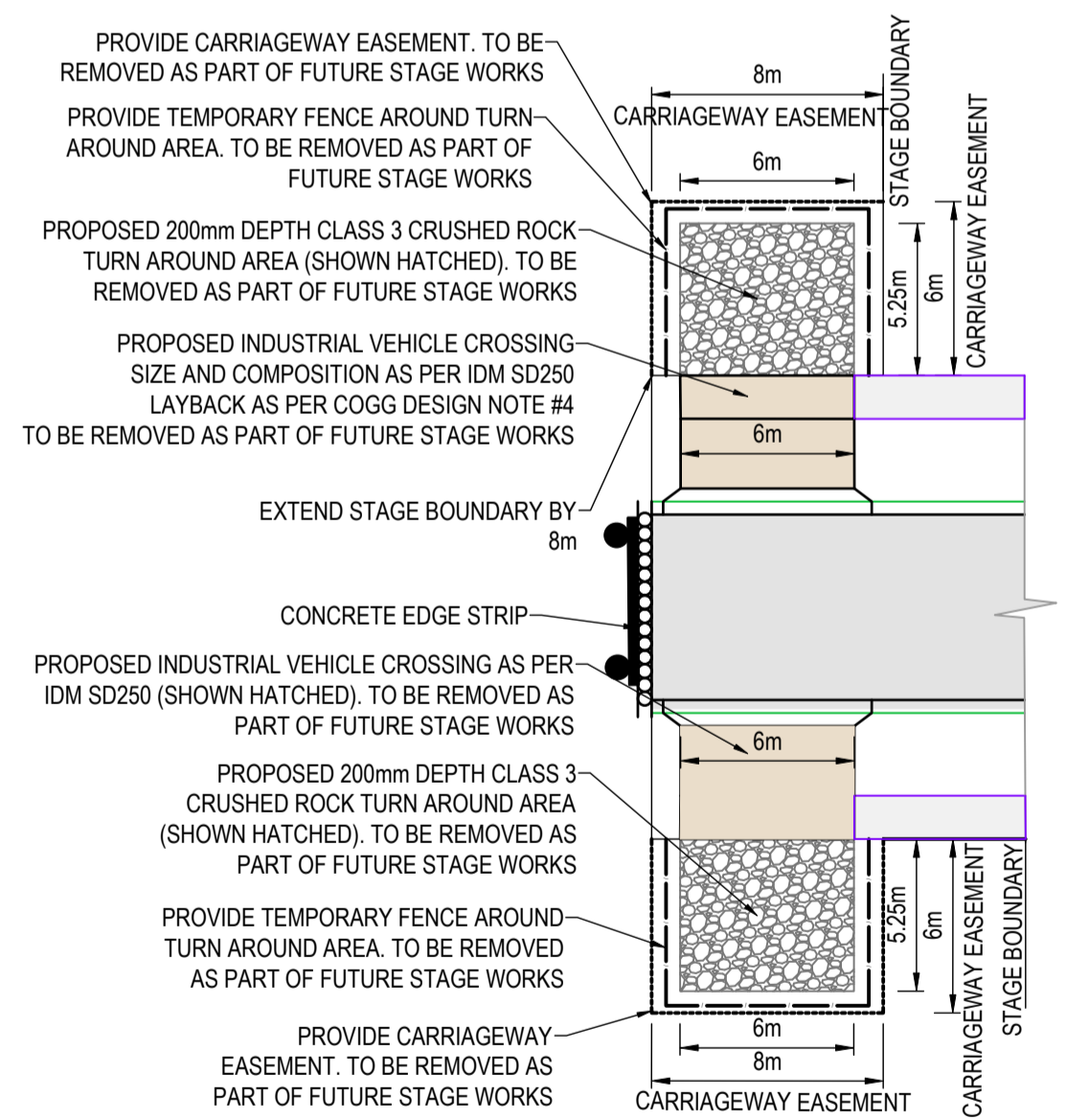
B2 KERB DETAIL (IDM SD100)
NOT TO SCALE



EDGE STRIP DETAIL (IDM SD100)
NOT TO SCALE



16m ROAD RESERVE - DELMARE DRIVE
TYPICAL SECTION



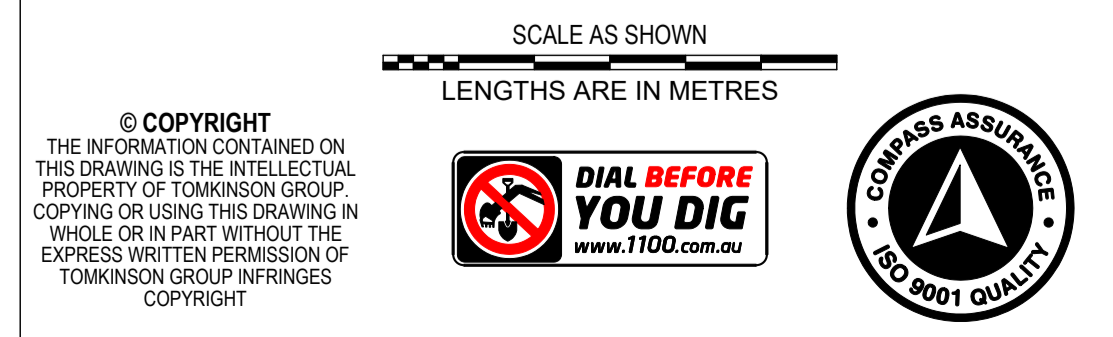
TYPICAL CARRIAGEWAY
EASEMENT TURN AREA DETAIL
N.T.S.

AS-CONSTRUCTED SIGNATURES

SIGN: *AG* DATE: _____
 TOMKINSON GROUP
 106-8 BOSTON RD, TORQUAY 3228

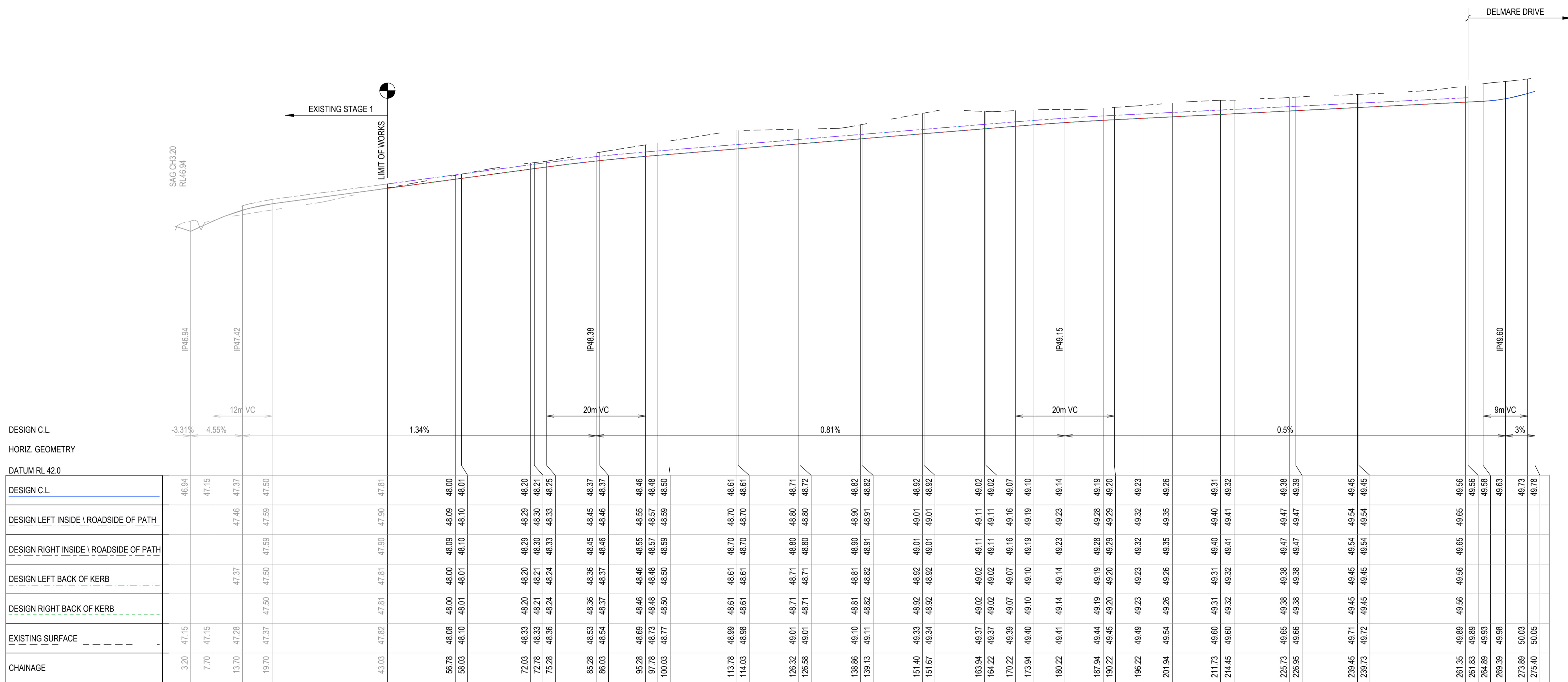
SIGN: *Sidney Glenister* DATE: _____
 DRAPER'S CIVIL CONTRACTING PTY LTD
 54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	DATE
AC	AS CONSTRUCTED	MM	SP	MM	19/08/24
0	CONSTRUCTION ISSUE	MM	MM	MM	30/10/23
C	TYPICAL TURN AREA DETAIL UPDATED AS PER COUNCIL COMMENTS 5/10/23	NC	RQ	MM	24/10/23
B	AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC	NC	MM	30/08/23
A	PRELIMINARY ISSUE	NC	PW	MM	27/03/23




ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD TYPICAL SECTIONS & TYPICAL DETAILS
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: PROJECT & DWG No: A4041D-RD500

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 PLOT DATE: 20/08/2024 FILE: C:\112\DATA\TOMKINSON\ESTUARY II\AS CONSTRUCTED\ROAD AND DRAINAGE\A4041D-RD500.DWG



DESIGN C.L.		HORIZ. GEOMETRY		DATUM RL 42.0	
DESIGN C.L.	46.94			46.94	47.15
DESIGN LEFT INSIDE \ ROADSIDE OF PATH				47.46	47.37
DESIGN RIGHT INSIDE \ ROADSIDE OF PATH				47.59	47.50
DESIGN LEFT BACK OF KERB				47.37	47.50
DESIGN RIGHT BACK OF KERB				47.50	47.50
EXISTING SURFACE	47.15	47.28		47.37	47.50
CHAINAGE	3.20	7.70	13.70	19.70	43.03
					47.82
					47.81
					47.90
					47.81
					48.00
					48.01
					48.20
					48.21
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					49.73
					49.78

AS-CONSTRUCTED SIGNATURES

SIGN  DATE

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

Sidney Glanister

SIGN

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

AC AS CONSTRUCTED	MM SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE





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ABN 11 103 336 358 WWW.TOMKINSON.COM



estuary II
LEOPOLD

SCALE H 1:500 V 1:50 @ A1, 1:1,000 V 1:100 @ A3
LENGTHS ARE IN METRES

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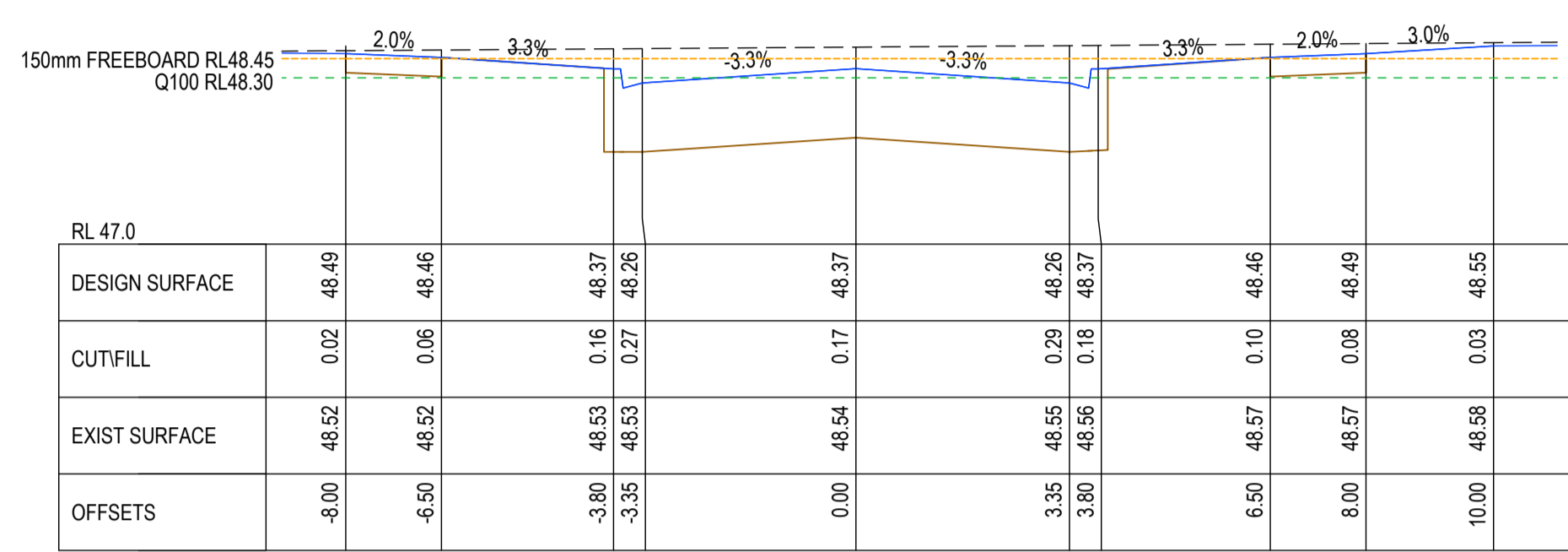
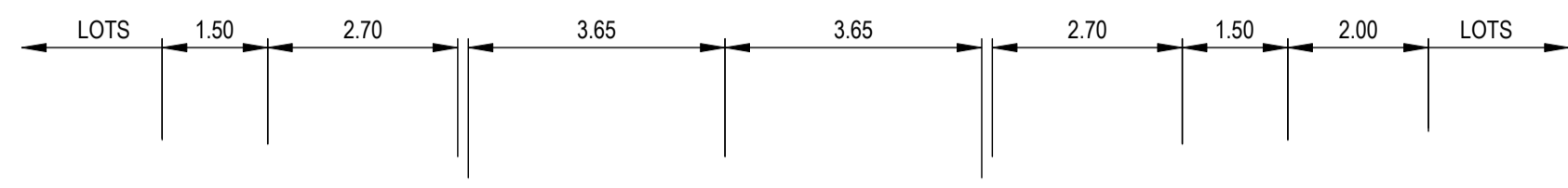
ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD LONGITUDINAL SECTIONS SEDNA STREET

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

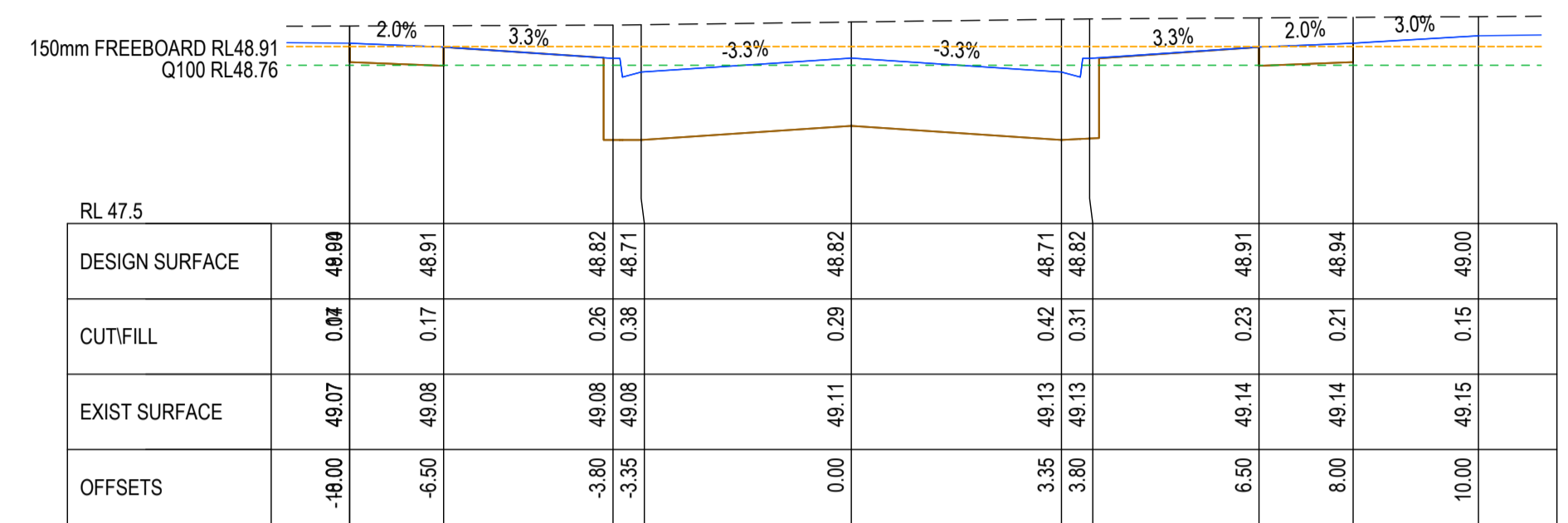
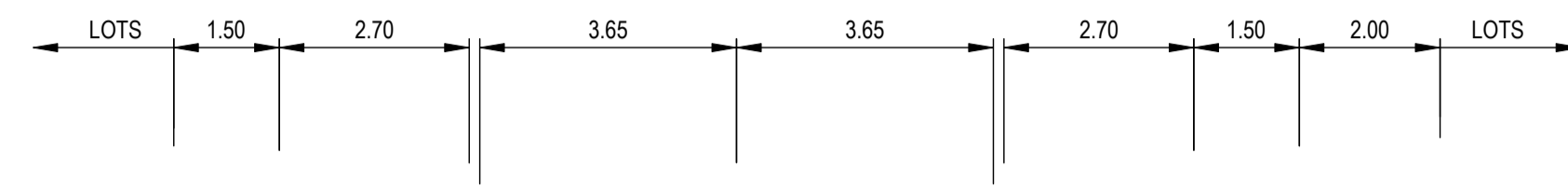
DWG STATUS: PROJECT & DWG No: A4041D-RD600

AS CONSTRUCTED

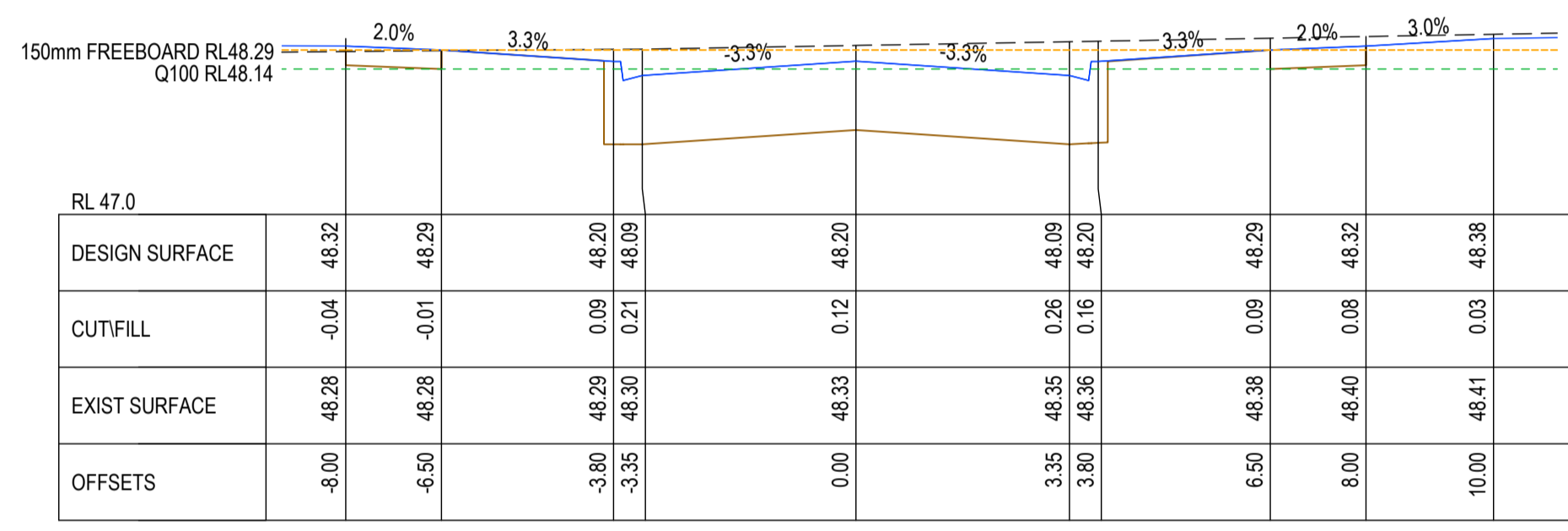
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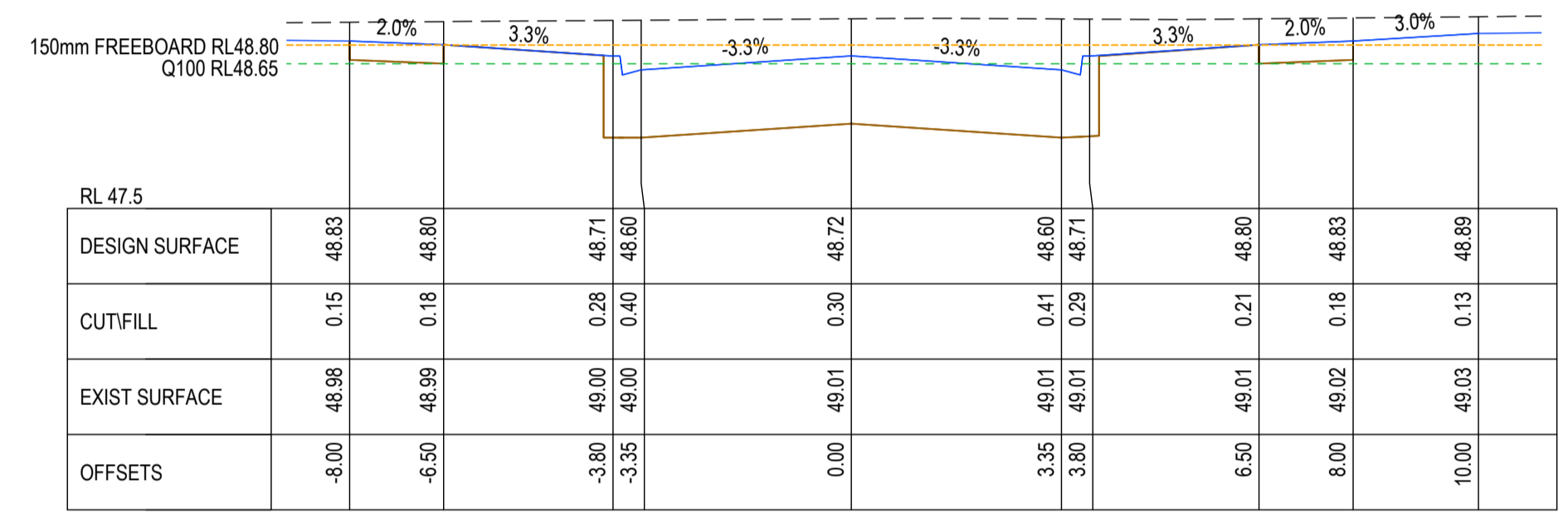
CH 86.03



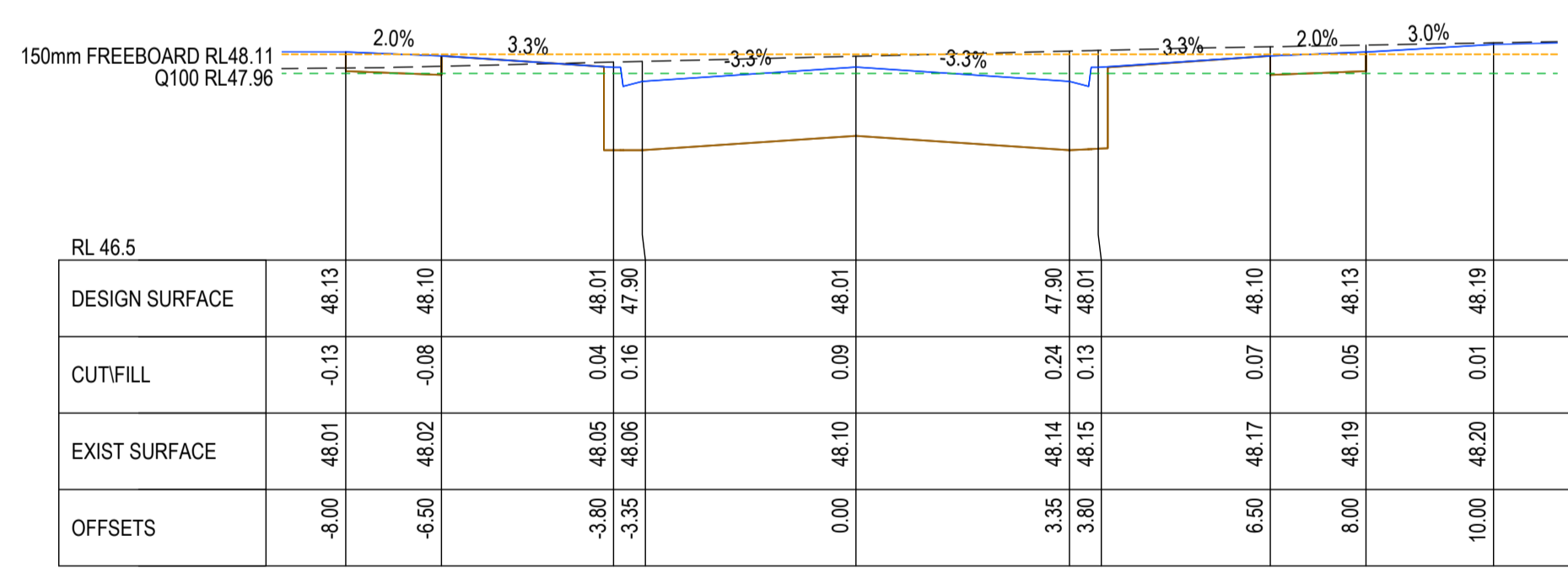
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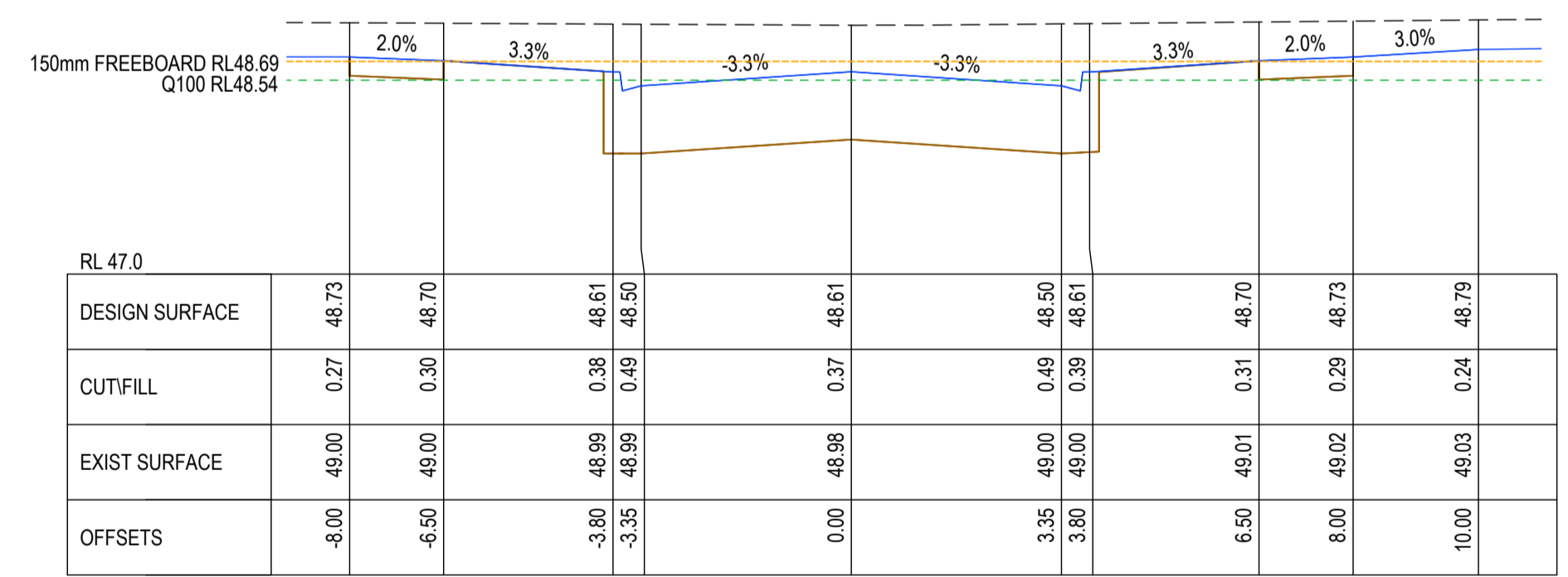
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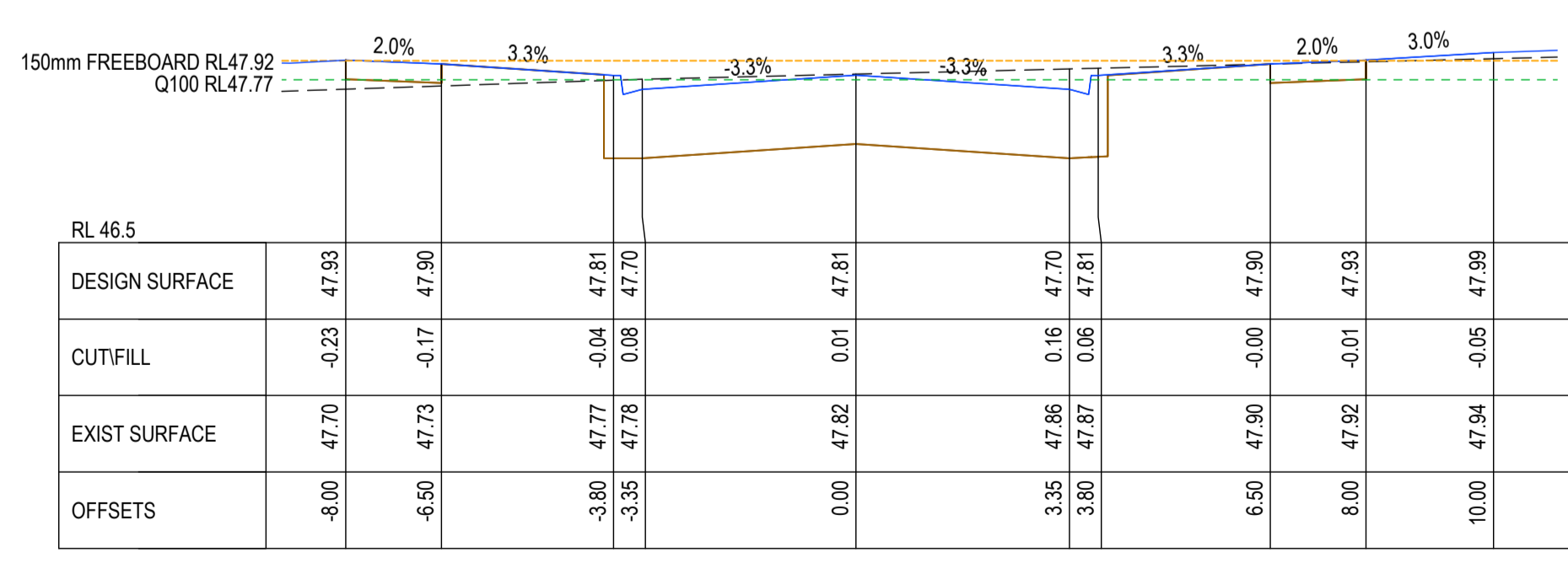
CH 126.58



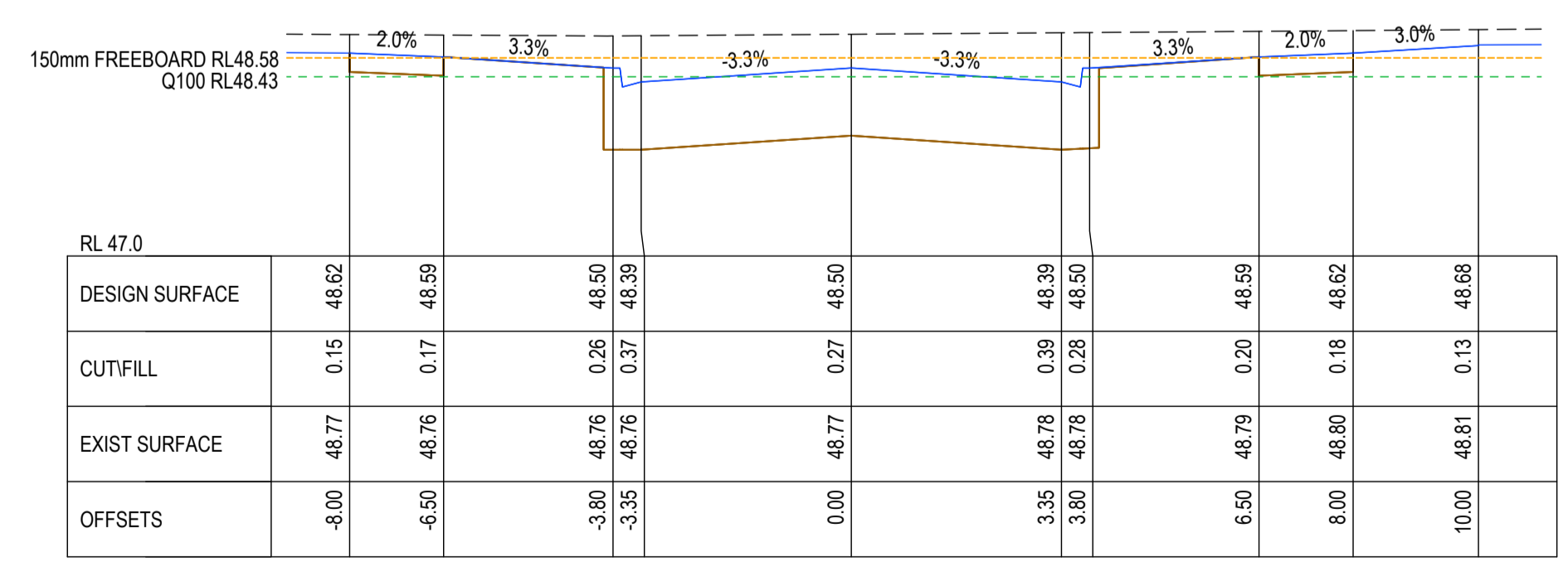
CH 58.03



CH 114.03



CH 43.03



CH 100.03

AS-CONSTRUCTED SIGNATURES

SIGN: *[Signature]* DATE: _____

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

SIGN: *[Signature]* DATE: _____

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

AC AS CONSTRUCTED	MM SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
C BATTER REMOVED FROM CH43.03 TO CH255.73	NC MK MM 16/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE

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

SCALE H 1:100 V 1:50 @ A1, 1:200 V 1:50 @ A3

LENGTHS ARE IN METRES

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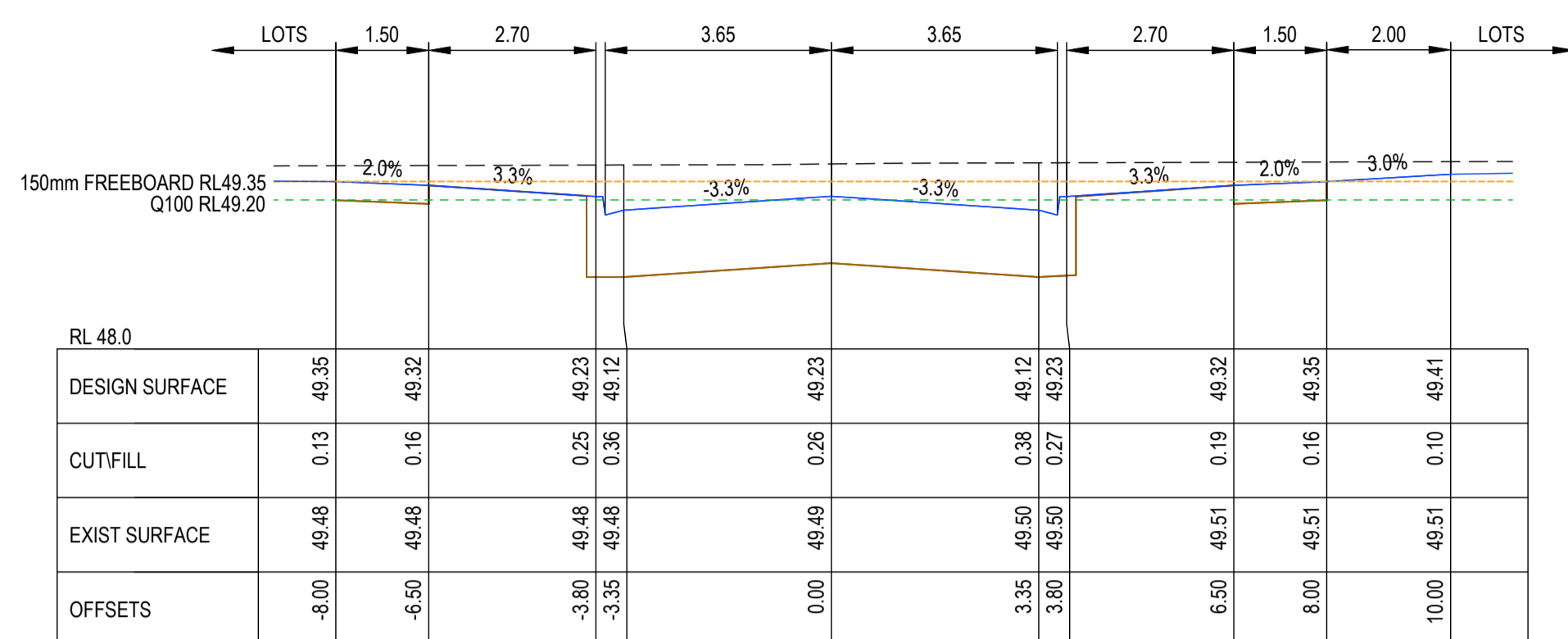
ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD CROSS SECTIONS SEDNA STREET (SHEET 1 OF 2)

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

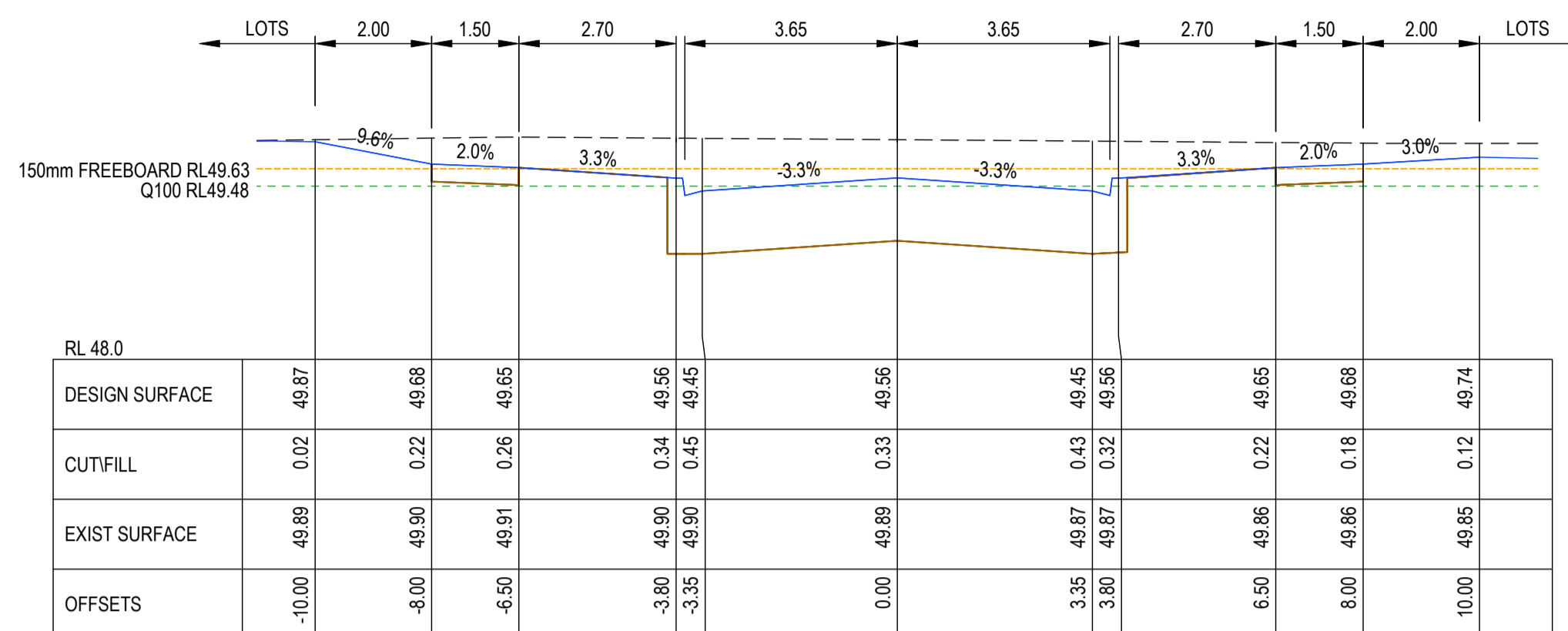
DWG STATUS: PROJECT & DWG No: A4041D-RD601

AS CONSTRUCTED

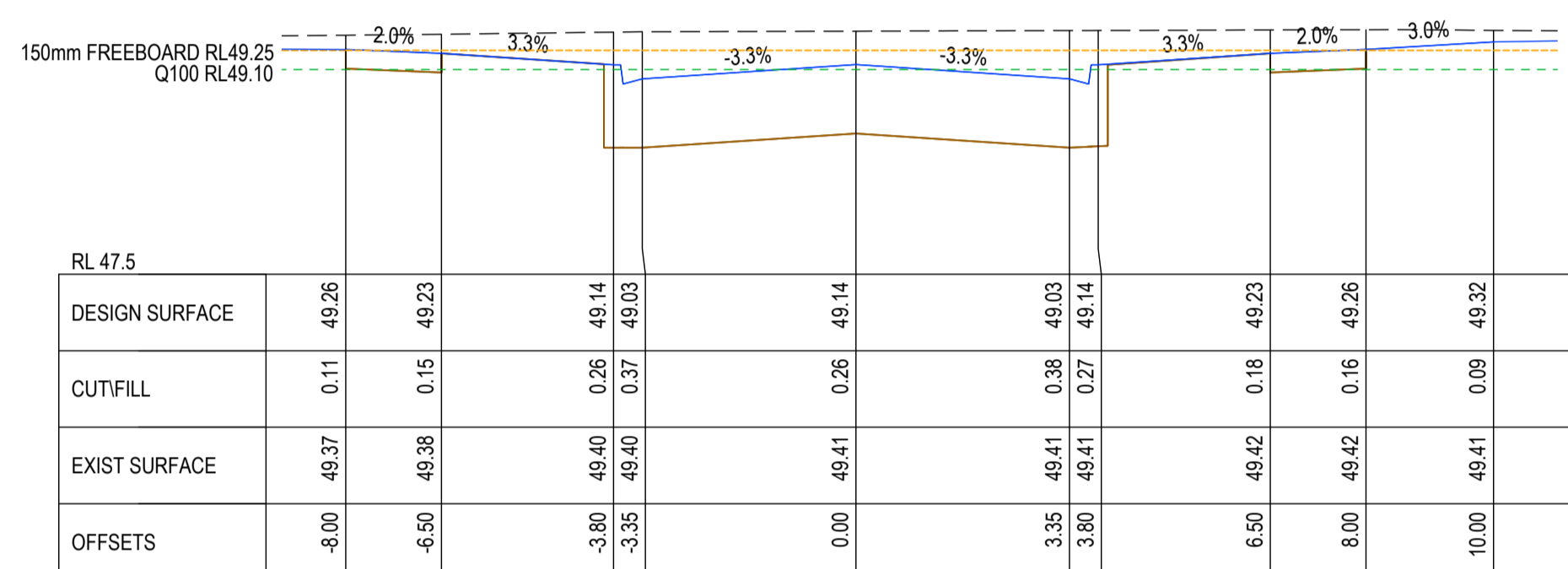
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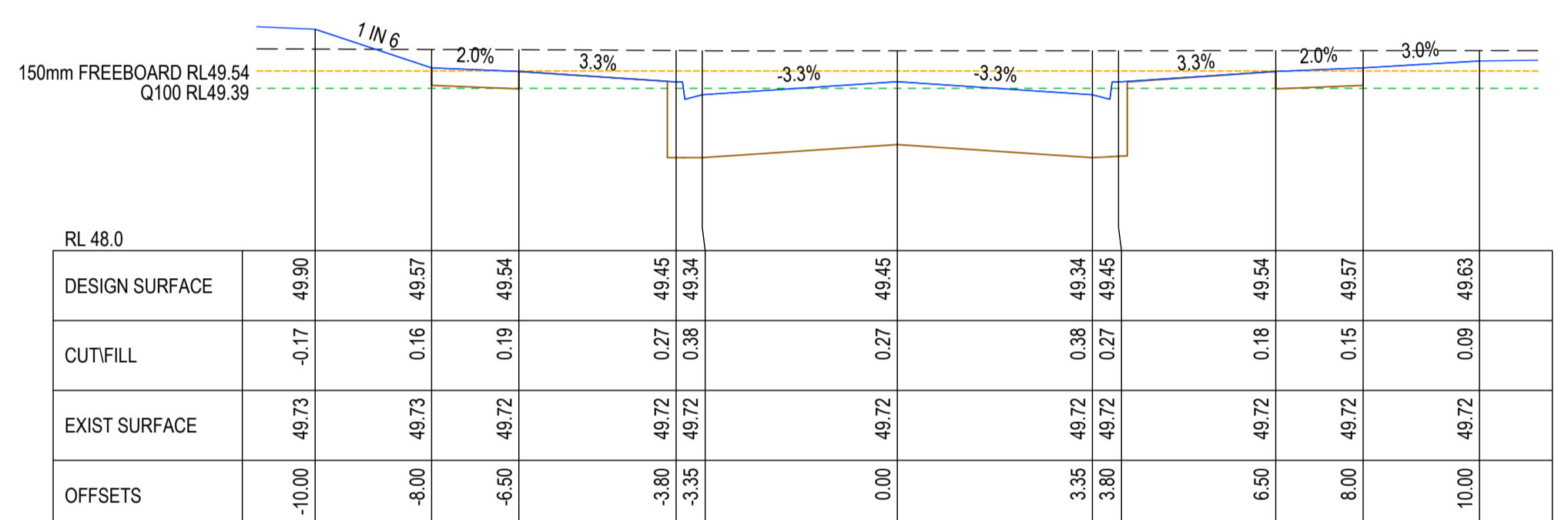
CH 196.22



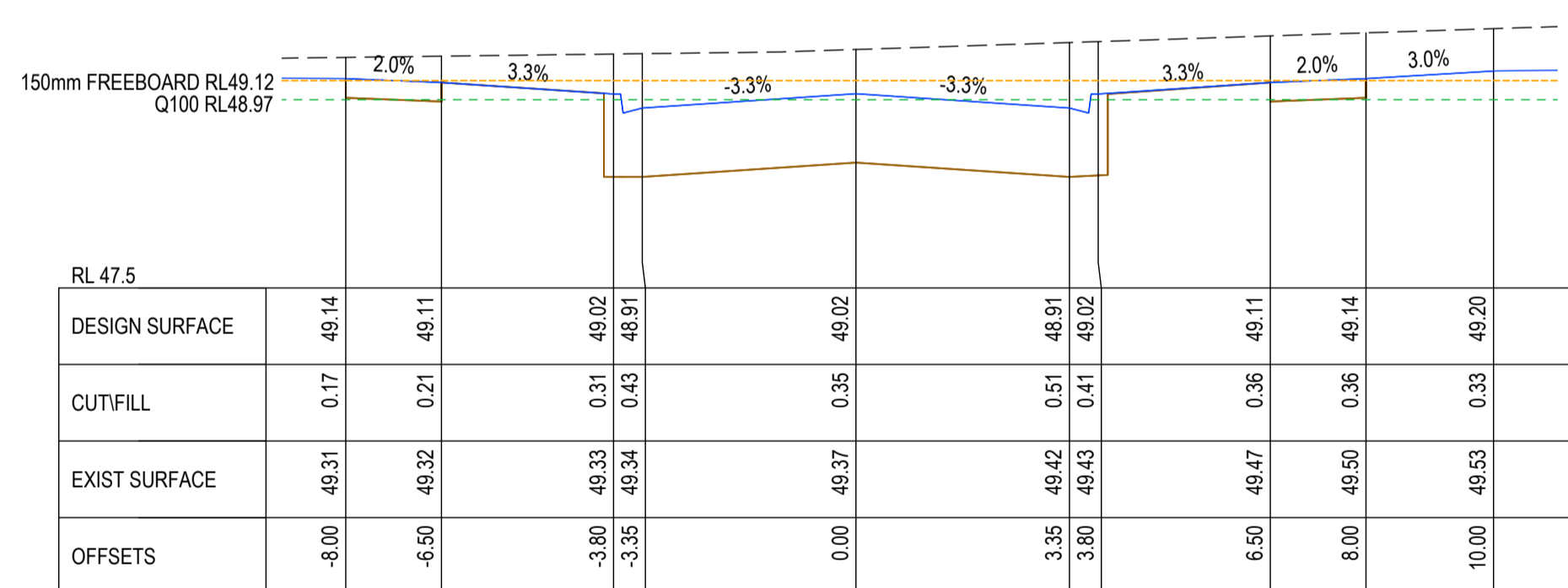
CH 261.35



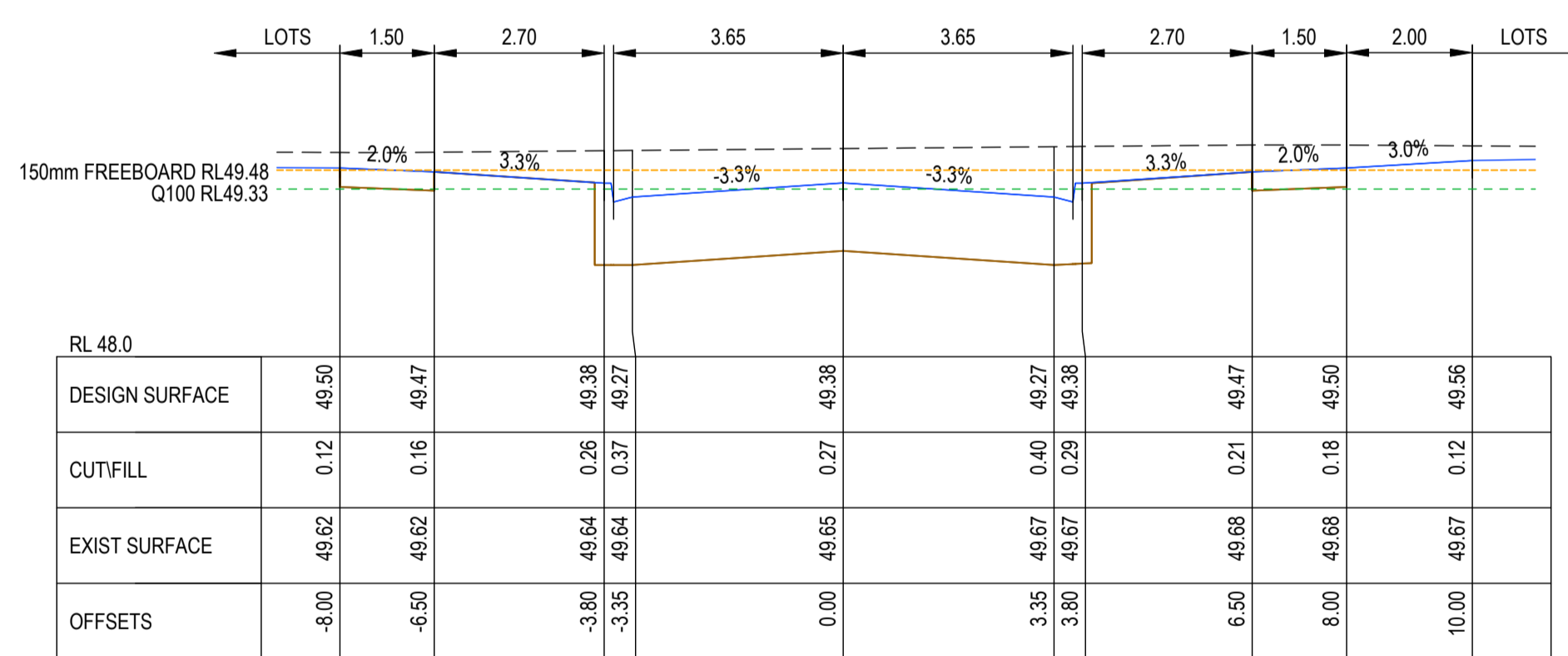
CH 180.22



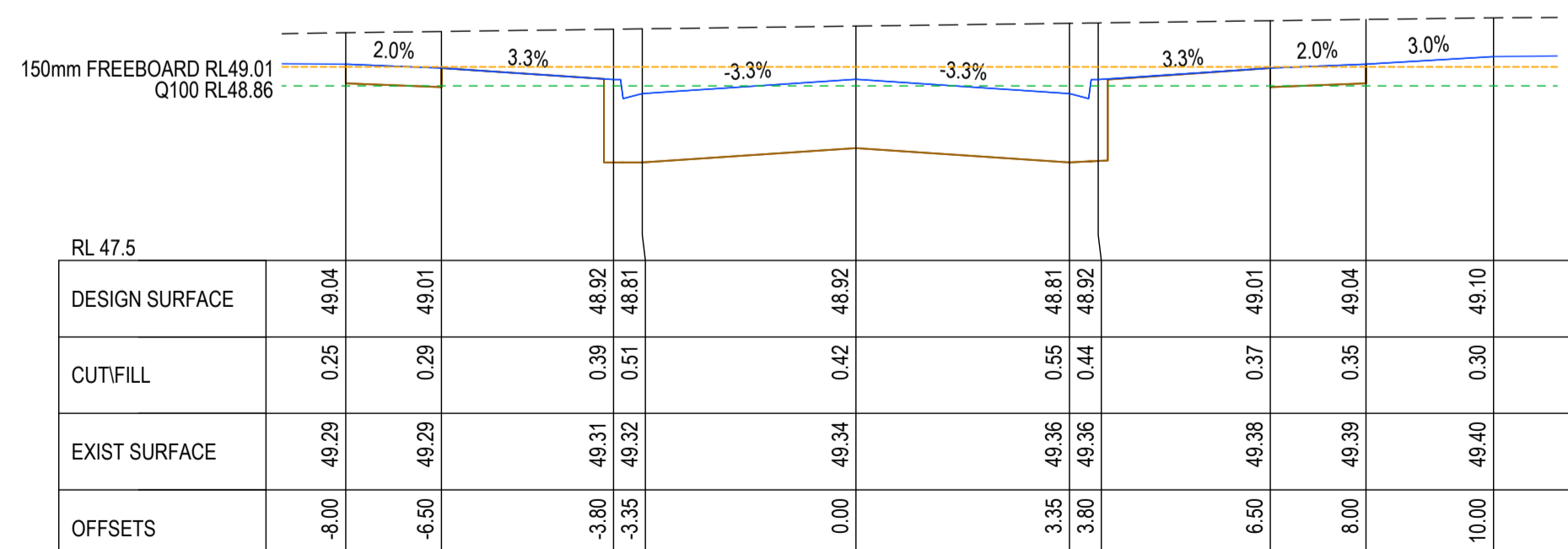
CH 239.73



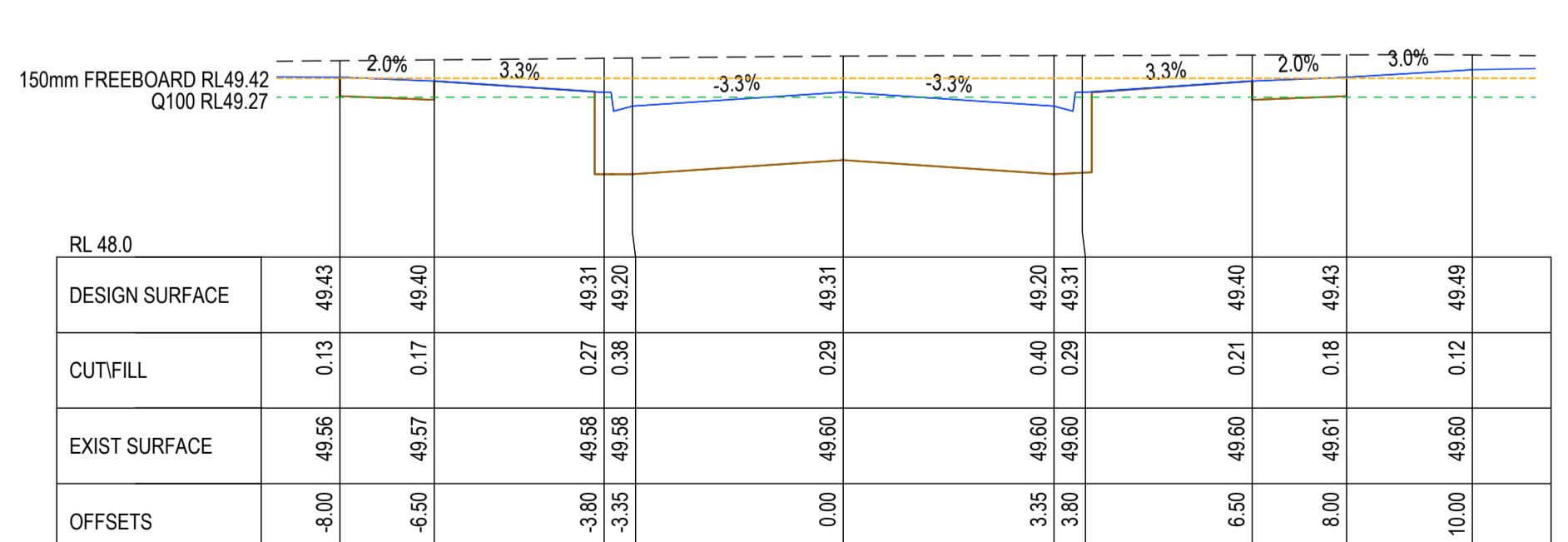
CH 164.22



CH 225.73



CH 151.67



CH 211.73

AS-CONSTRUCTED SIGNATURES


 SIGN _____ DATE _____
TOMKINSON GROUP
 106-8 BOSTON RD, TORQUAY 3228
Sidney Jenster
 SIGN _____ DATE _____
DRAPER'S CIVIL CONTRACTING PTY LTD
 54-56 LEATHER ST, BREAKWATER VIC 3219

AC AS CONSTRUCTED	MM SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
C BATTER REMOVED FROM CH43.03 TO CH255.73	NC MK MM 16/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE





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estuary II
 LEOPOLD

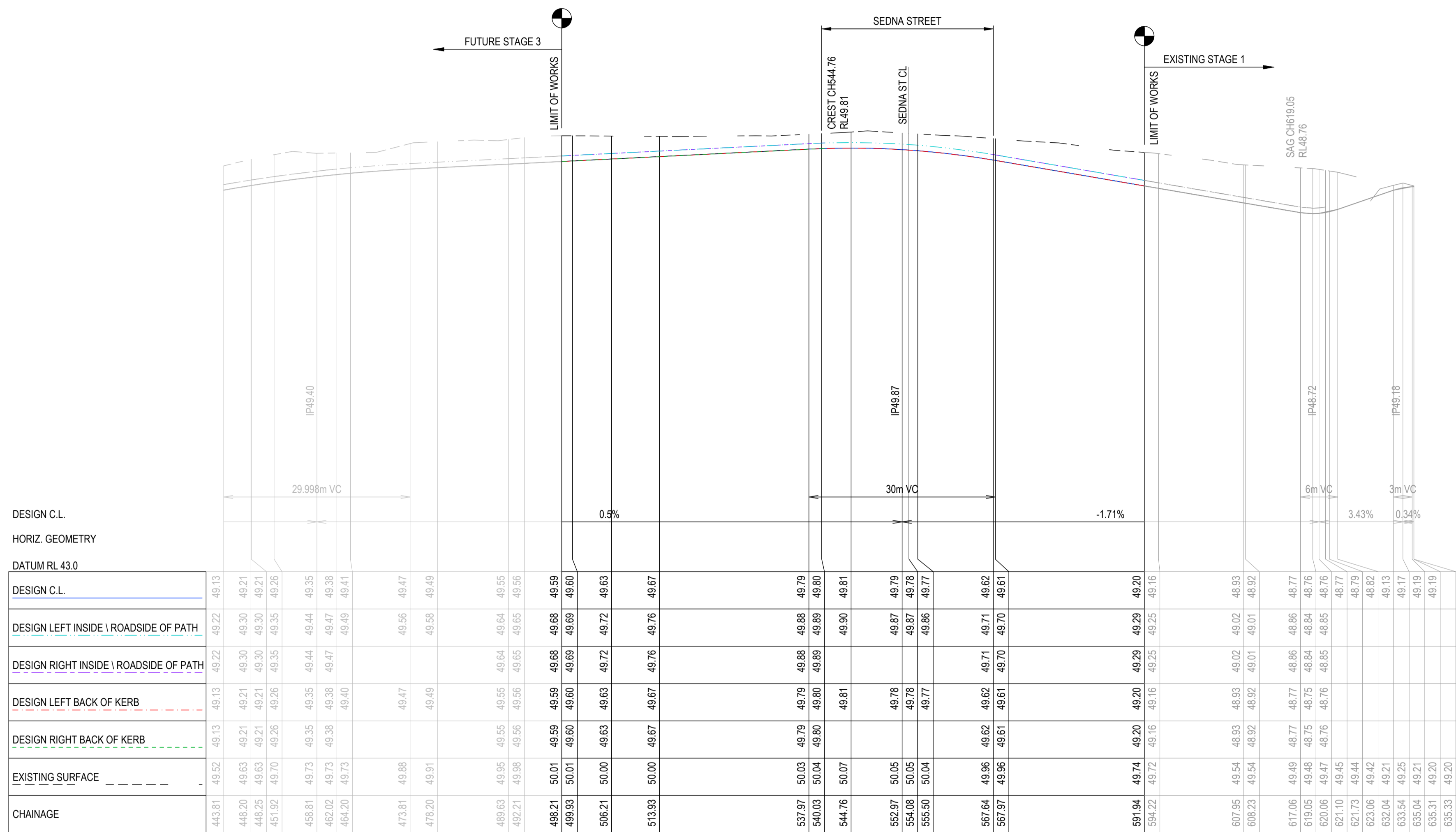
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 H 1 0 1 2 3 4 5 H
 V 0.5 1 1.5 2.0 2.5 V
 LENGTHS ARE IN METRES

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ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD CROSS SECTIONS SEDNA STREET (SHEET 2 OF 2)
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: PROJECT & DWG No: REV: **AS CONSTRUCTED** A4041D-RD602 AC

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 PLOT DATE: 20/08/2024 FILE: C:\12\DATA\TOMKINSON\BGO-12DS01\A4041 - ASH ROAD, LEOPOLD - 9886\ENGINEERING\CAD\CURRENT\A4041 - STAGE 2\ROAD AND DRAINAGE\A4041D-02-RD600.DWG



CHAINAGE	EXISTING SURFACE	DESIGN RIGHT BACK OF KERB	DESIGN LEFT BACK OF KERB	DESIGN RIGHT INSIDE \ ROADSIDE OF PATH	DESIGN LEFT INSIDE \ ROADSIDE OF PATH	DESIGN C.L.
443.81	49.52	49.13	49.13	49.22	49.22	49.13
448.20	49.63	49.21	49.21	49.30	49.30	49.21
448.25	49.63	49.21	49.21	49.30	49.30	49.21
451.92	49.70	49.26	49.26	49.35	49.35	49.26
458.81	49.73	49.35	49.35	49.44	49.44	49.35
462.02	49.73	49.38	49.38	49.47	49.47	49.38
464.20	49.73	49.40	49.40	49.49	49.49	49.41
473.81	49.88	49.47	49.47	49.56	49.56	49.47
478.20	49.91	49.49	49.49	49.58	49.58	49.49
489.63	49.95	49.55	49.55	49.64	49.64	49.55
492.21	49.98	49.56	49.56	49.65	49.65	49.56
498.21	50.01	49.59	49.59	49.68	49.68	49.59
499.93	50.01	49.60	49.60	49.69	49.69	49.60
506.21	50.00	49.63	49.63	49.72	49.72	49.63
513.93	50.00	49.67	49.67	49.76	49.76	49.67
537.97	50.03	49.79	49.79	49.88	49.88	49.79
540.03	50.04	49.80	49.80	49.89	49.89	49.80
544.76	50.07	49.81	49.81	49.90	49.90	49.81
552.97	50.05	49.78	49.78	49.87	49.87	49.79
554.08	50.05	49.78	49.78	49.87	49.87	49.78
555.50	50.04	49.77	49.77	49.86	49.86	49.77
567.64	49.96	49.62	49.62	49.71	49.71	49.62
567.97	49.96	49.61	49.61	49.70	49.70	49.61
591.94	49.74	49.20	49.20	49.29	49.29	49.20
594.22	49.72	49.16	49.16	49.25	49.25	49.16
607.95	49.54	48.93	48.93	49.02	49.02	48.93
608.23	49.54	48.92	48.92	49.01	49.01	48.92
617.06	49.49	48.77	48.77	48.86	48.86	48.77
619.05	49.48	48.75	48.75	48.84	48.84	48.76
620.06	49.47	48.76	48.76	48.85	48.85	48.76
621.10	49.45	48.74	48.74	48.83	48.83	48.77
621.73	49.44	48.73	48.73	48.82	48.82	48.79
622.06	49.42	48.71	48.71	48.80	48.80	48.82
622.94	49.21	48.50	48.50	48.59	48.59	49.13
633.94	49.25	48.54	48.54	48.63	48.63	49.17
635.04	49.21	48.50	48.50	48.59	48.59	49.19
635.31	49.20	48.49	48.49	48.58	48.58	49.19
635.33	49.20	48.49	48.49	48.58	48.58	49.20

AS-CONSTRUCTED SIGNATURES



 SIGN: _____ DATE: _____
 TOMKINSON GROUP
 1016-8 BOSTON RD, TORQUAY 3228
 Sidney Jhanister
 SIGN: _____ DATE: _____
 DRAPER'S CIVIL CONTRACTING PTY LTD
 54-56 LEATHER ST, BREAKWATER VIC 3219

AC AS CONSTRUCTED	MM SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE



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estuary II
 LEOPOLD

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

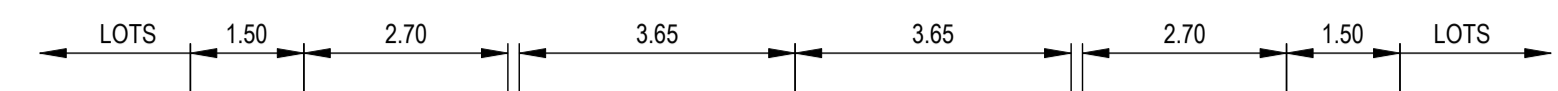
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ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD LONGITUDINAL SECTIONS DELMARE DRIVE
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: PROJECT & DWG No: AS CONSTRUCTED A401D-RD610

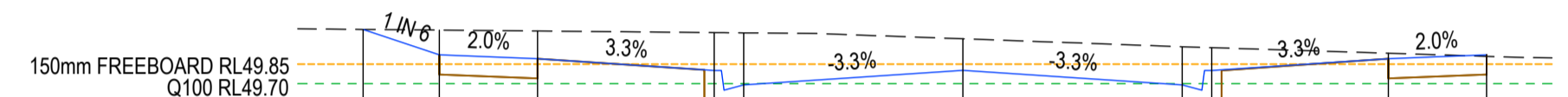
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 PLOT DATE: 20/08/2024 FILE: C:\112\DA\1\TOM\K80-12DS01\44041 - ASH ROAD, LEOPOLD C- VILLAWOOD BENDIGO, LEOPOLD_9886ENGINEERING\CAD\CURRENT\44041 - STAGE 2\ROAD AND DRAINAGE\A401D-02-RD610.DWG

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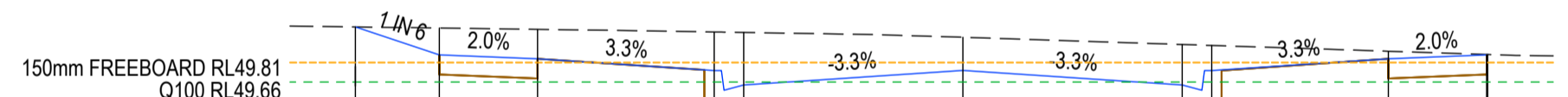
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DESIGN SURFACE			49.74		49.71		49.62		49.62
CUT/FILL			0.26		0.29		0.38		0.35
EXIST SURFACE			49.99		49.99		49.99		49.99
OFFSETS			-8.00		-6.50		-3.80		0.00

CH 567.64



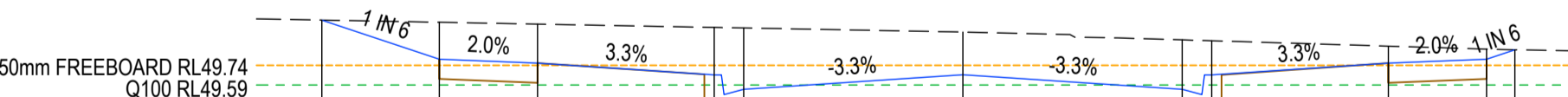
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DESIGN SURFACE		50.11	49.92		49.89		49.80		49.80
CUT/FILL		0.00	0.19		0.21		0.29		0.24
EXIST SURFACE		50.11	50.11		50.10		50.09		50.04
OFFSETS		-9.16	-8.00		-6.50		-3.80		0.00

CH 540.03



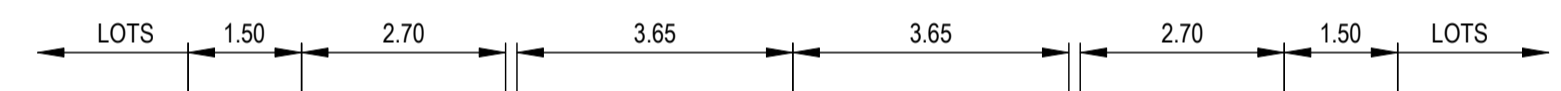
RL 48.5									
DESIGN SURFACE		50.09	49.87		49.84		49.75		49.75
CUT/FILL		0.00	0.21		0.23		0.29		0.25
EXIST SURFACE		50.09	50.08		50.07		50.04		50.01
OFFSETS		-9.28	-8.00		-6.50		-3.80		0.00

CH 529.93



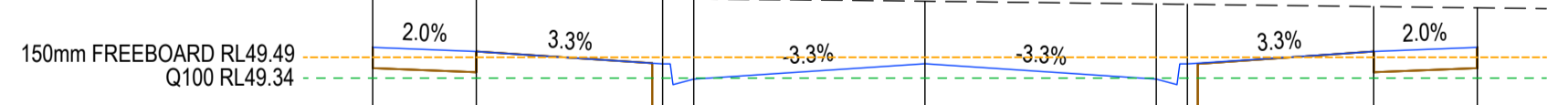
RL 48.5									
DESIGN SURFACE		50.09	49.79		49.76		49.67		49.67
CUT/FILL		0.00	0.28		0.30		0.36		0.33
EXIST SURFACE		50.09	50.07		50.06		50.03		50.00
OFFSETS		-9.79	-8.00		-6.50		-3.80		0.00

CH 513.93



RL 48.0									
DESIGN SURFACE		49.32	49.29		49.20		49.20		49.20
CUT/FILL		0.41	0.45		0.54		0.54		0.54
EXIST SURFACE		49.73	49.74		49.74		49.74		49.74
OFFSETS		-8.00	-6.50		-3.80		0.00		6.50

CH 591.94



RL 48.0									
DESIGN SURFACE		49.56	49.53		49.44		49.44		49.44
CUT/FILL		0.36	0.39		0.47		0.45		0.45
EXIST SURFACE		49.92	49.92		49.91		49.89		49.89
OFFSETS		-8.00	-6.50		-3.80		0.00		6.50

CH 577.94

AS-CONSTRUCTED SIGNATURES

SIGN: *AG* DATE: _____
TOMKINSON GROUP
 106-8 BOSTON RD, TORQUAY 3228

SIGN: *Sidney Jenster* DATE: _____
DRAPER'S CIVIL CONTRACTING PTY LTD
 54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	DATE
AC	AS CONSTRUCTED	MM	SP	MM	19/08/24
0	CONSTRUCTION ISSUE	MM	MM	MM	30/10/23
B	AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC	NC	MM	30/08/23
A	PRELIMINARY ISSUE	NC	PW	MM	27/03/23

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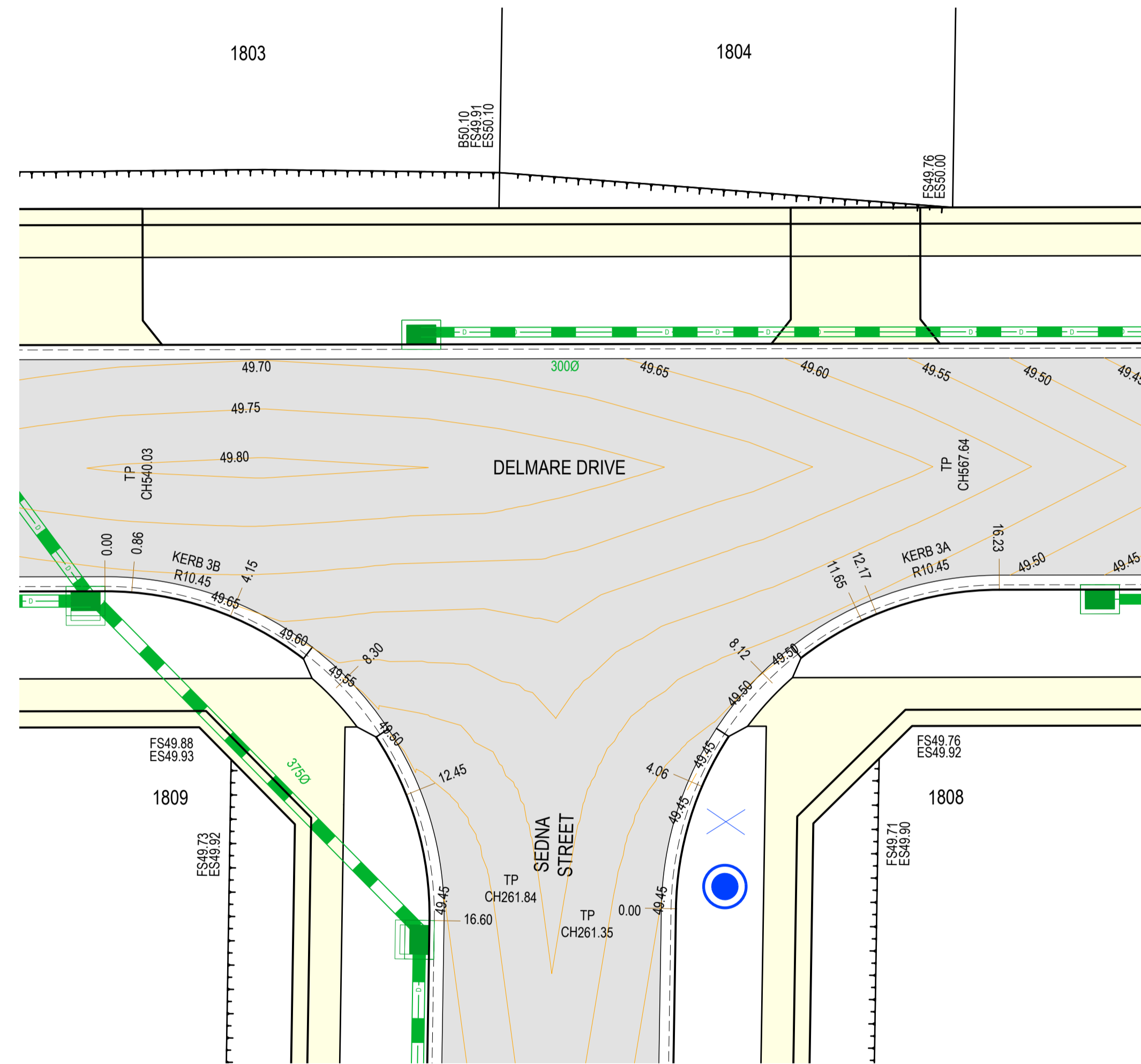
SCALE H 1:100 V 1:50 @ A1, 1:200 V 1:50 @ A3
 LENGTHS ARE IN METRES

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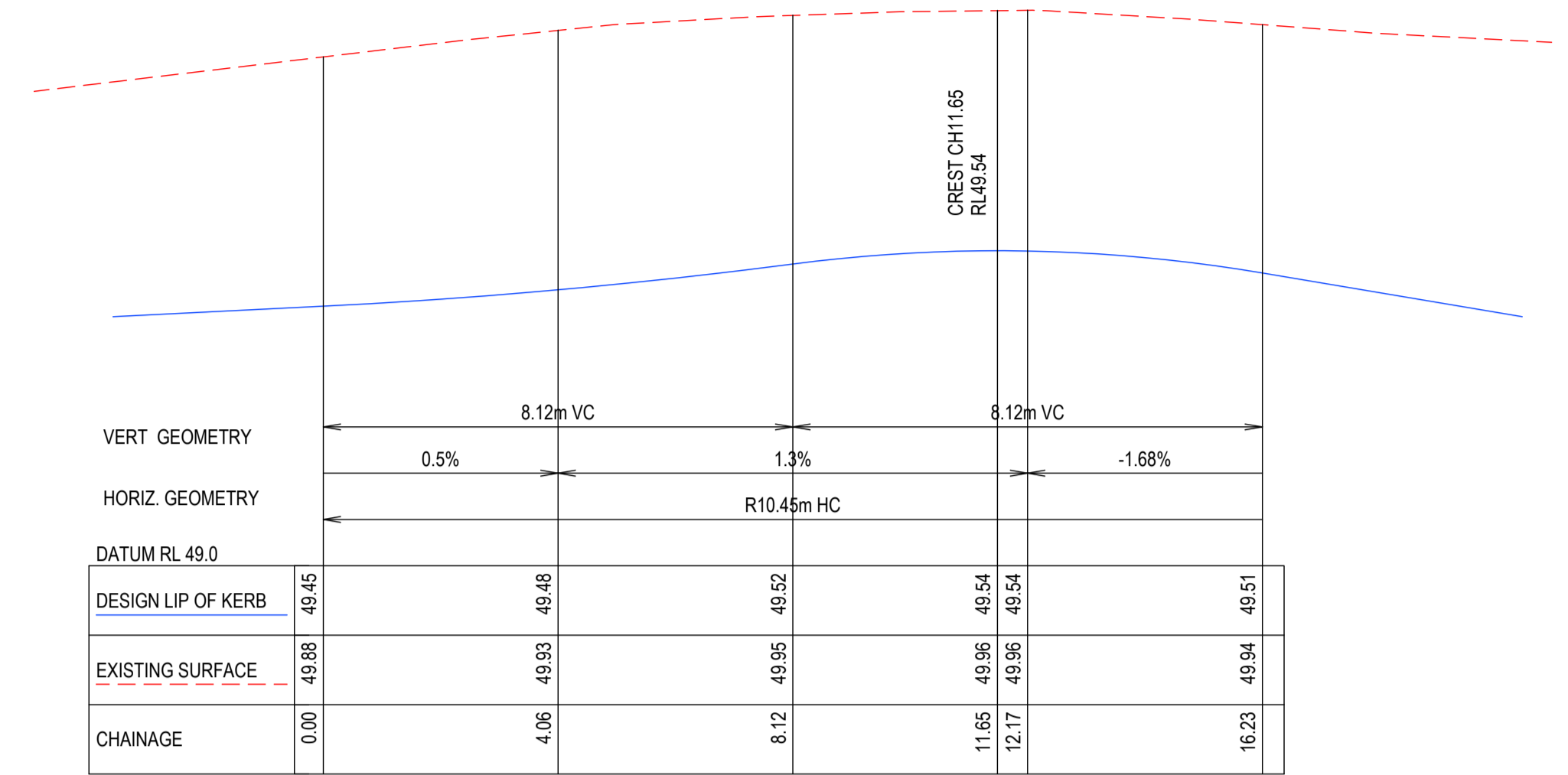
COMPASS ASSURANCE
 ISO 9001 QUALITY

ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
ROAD CROSS SECTIONS DELMARE DRIVE
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: PROJECT & DWG No: **AS CONSTRUCTED A4041D-RD611**



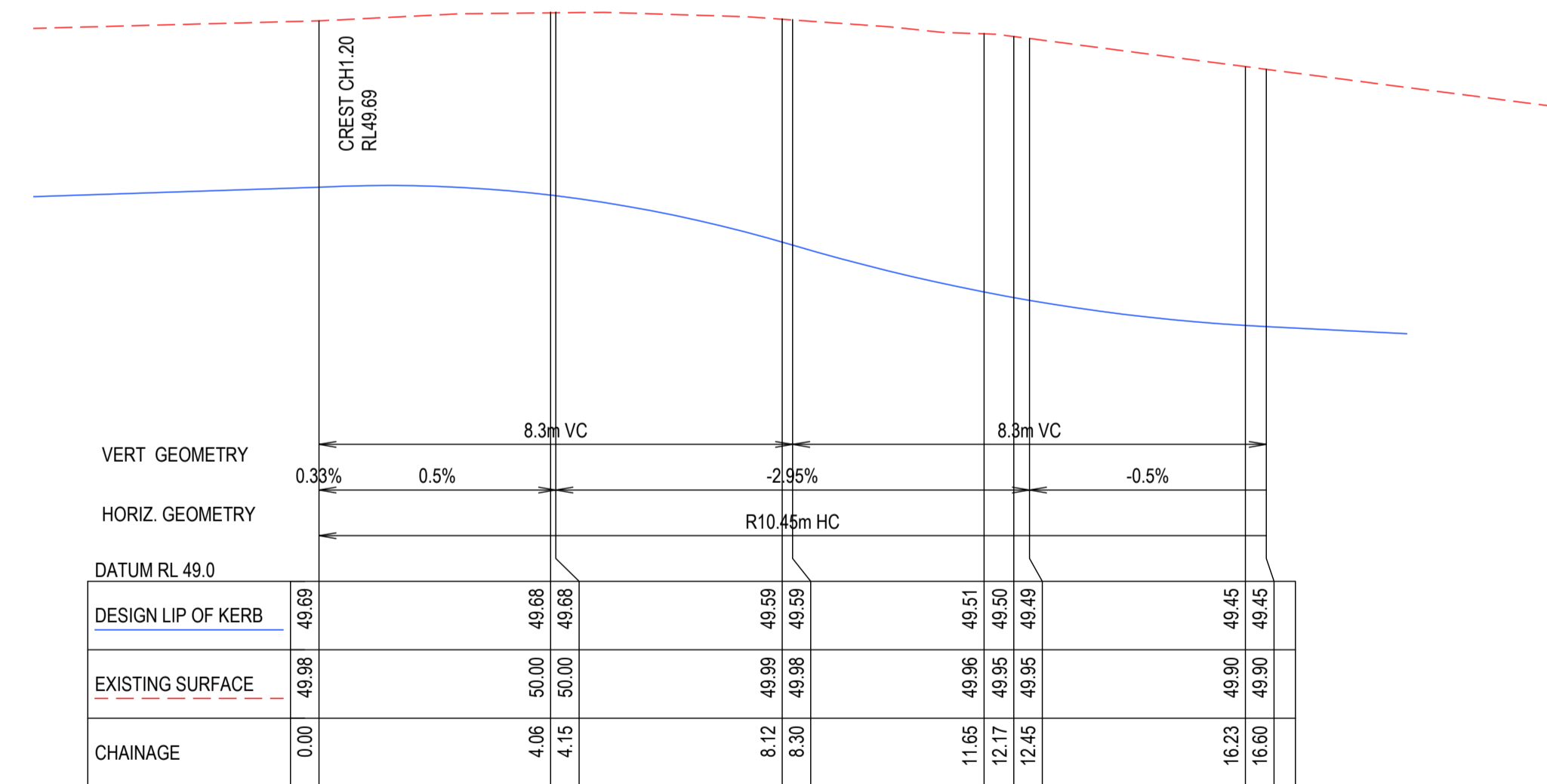
INTERSECTION DETAIL

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



KERB 3A

VERT GEOMETRY	8.12m VC		8.12m VC	
HORIZ. GEOMETRY	0.5%		1.3%	
	R10.45m HC			
DATUM RL 49.0				
DESIGN LIP OF KERB	49.45	49.48	49.52	49.54
EXISTING SURFACE	49.88	49.93	49.95	49.96
CHAINAGE	0.00	4.06	8.12	11.65
			12.17	16.23



KERB 3B

VERT GEOMETRY	8.3m VC		8.3m VC	
HORIZ. GEOMETRY	0.33%		0.5%	
	R10.45m HC			
DATUM RL 49.0				
DESIGN LIP OF KERB	49.63	49.68	49.59	49.51
EXISTING SURFACE	49.98	50.00	49.99	49.95
CHAINAGE	0.00	4.06	8.12	11.65
		4.15	8.30	12.45
				16.23

SCALE H 1:200 V 1:20 @ A1, 1:400 V 1:40 @ A3
 H 2 0 2 4 6 8 10 H
 V 0.20 0 0.20 0.40 0.60 0.80 1.00 V
 LENGTHS ARE IN METRES

AS-CONSTRUCTED SIGNATURES

SIGN *JG* DATE _____
 TOMKINSON GROUP
 106-8 BOSTON RD, TORQUAY 3228

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

AC AS CONSTRUCTED	MM SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE



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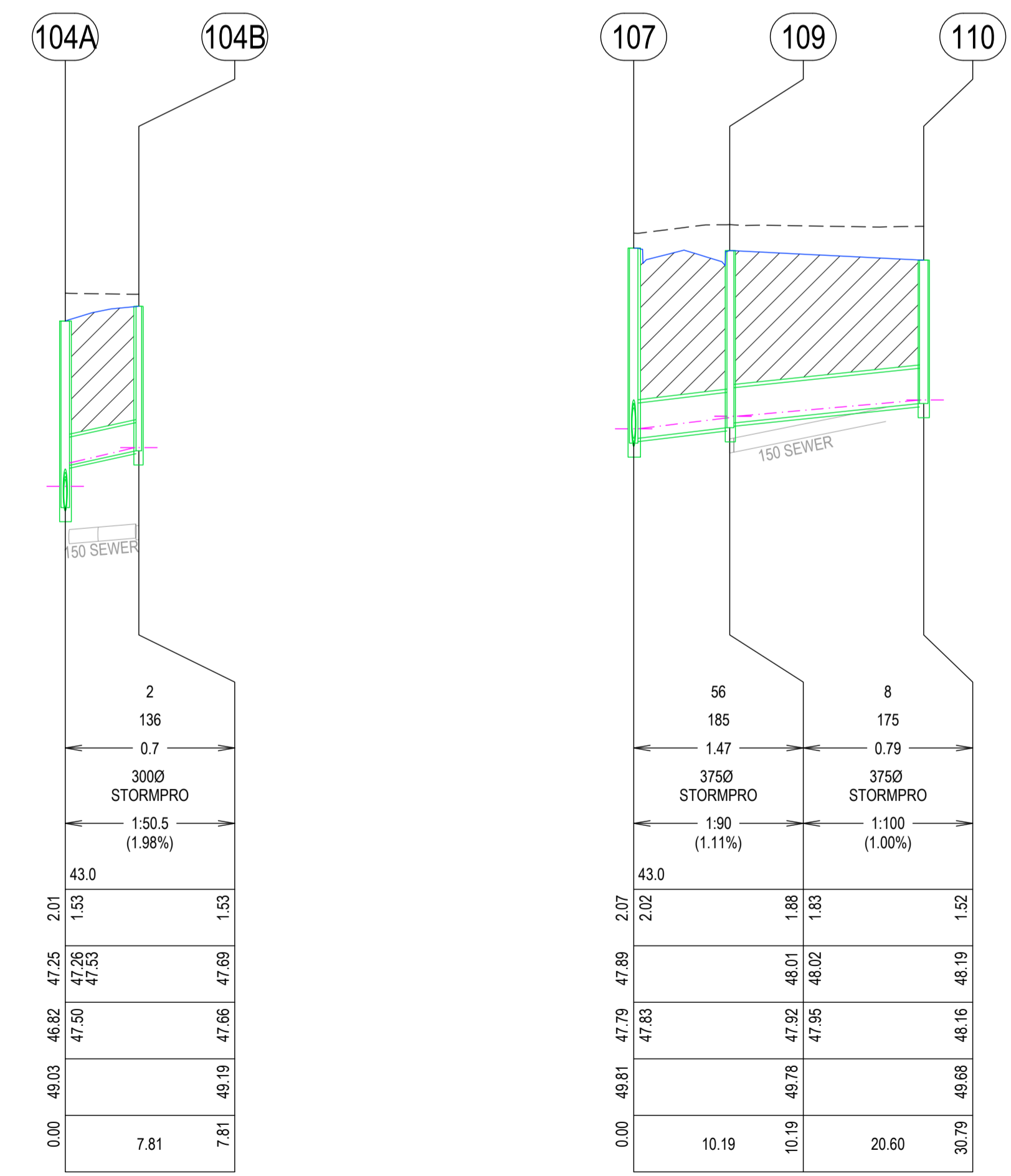
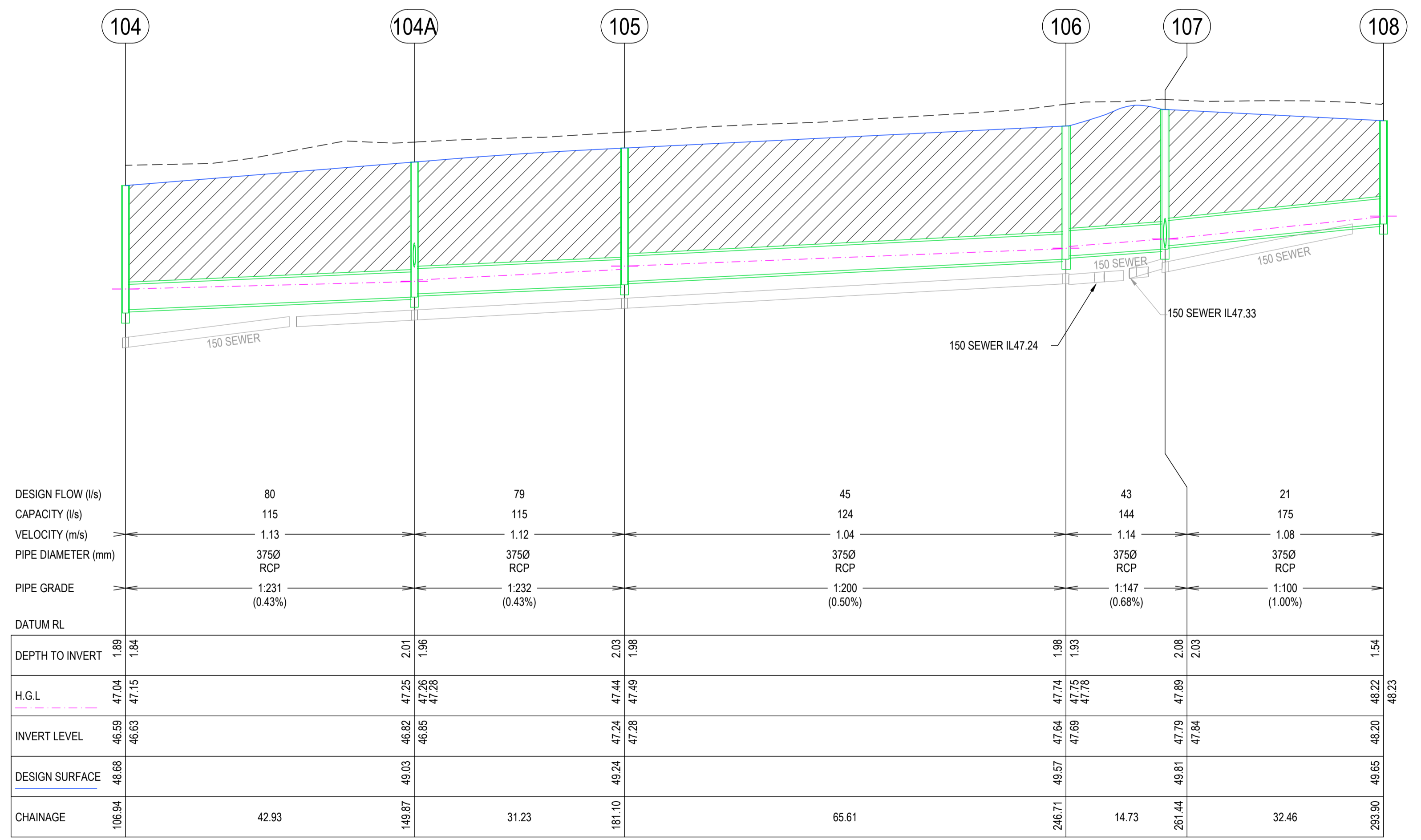
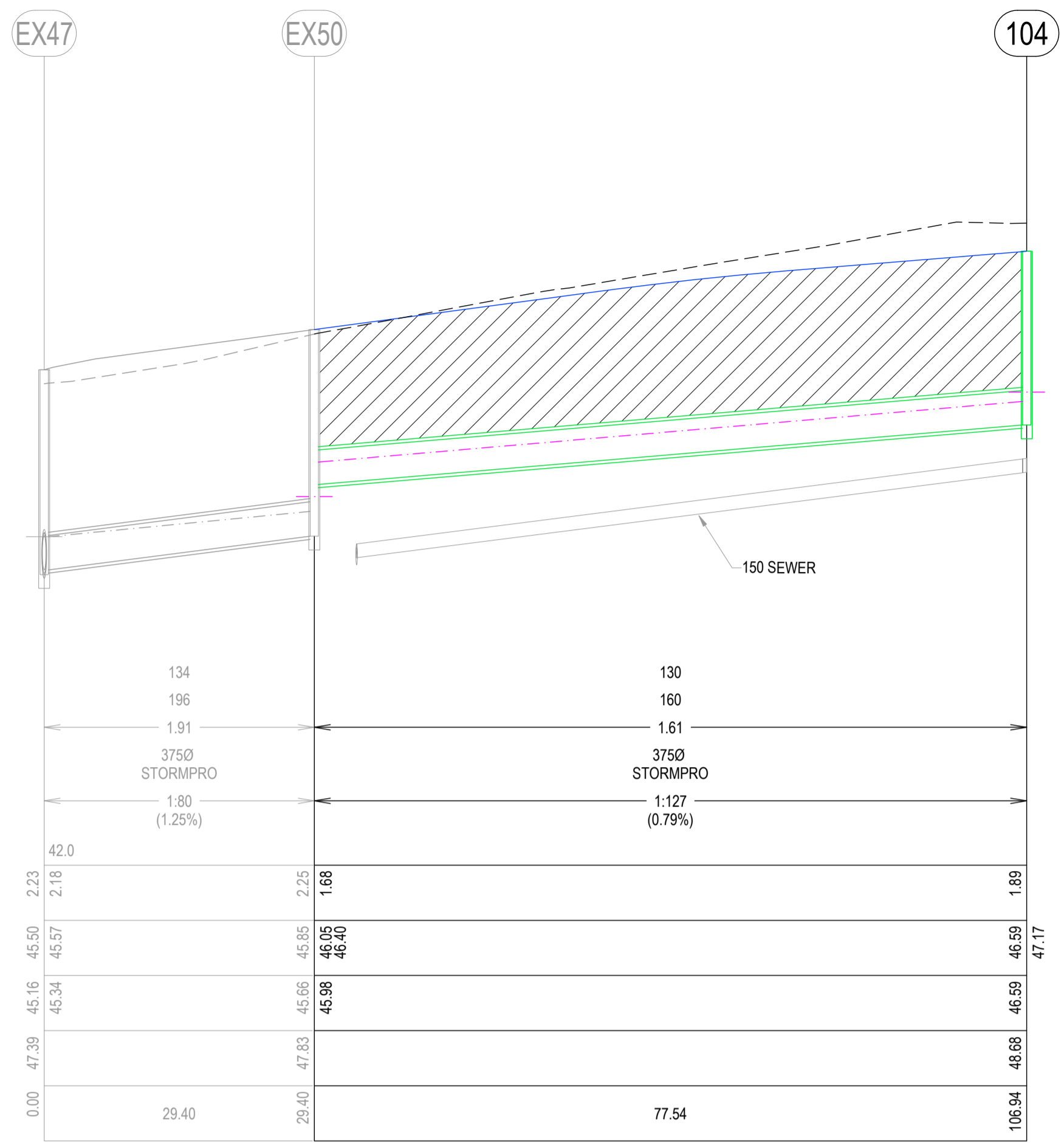
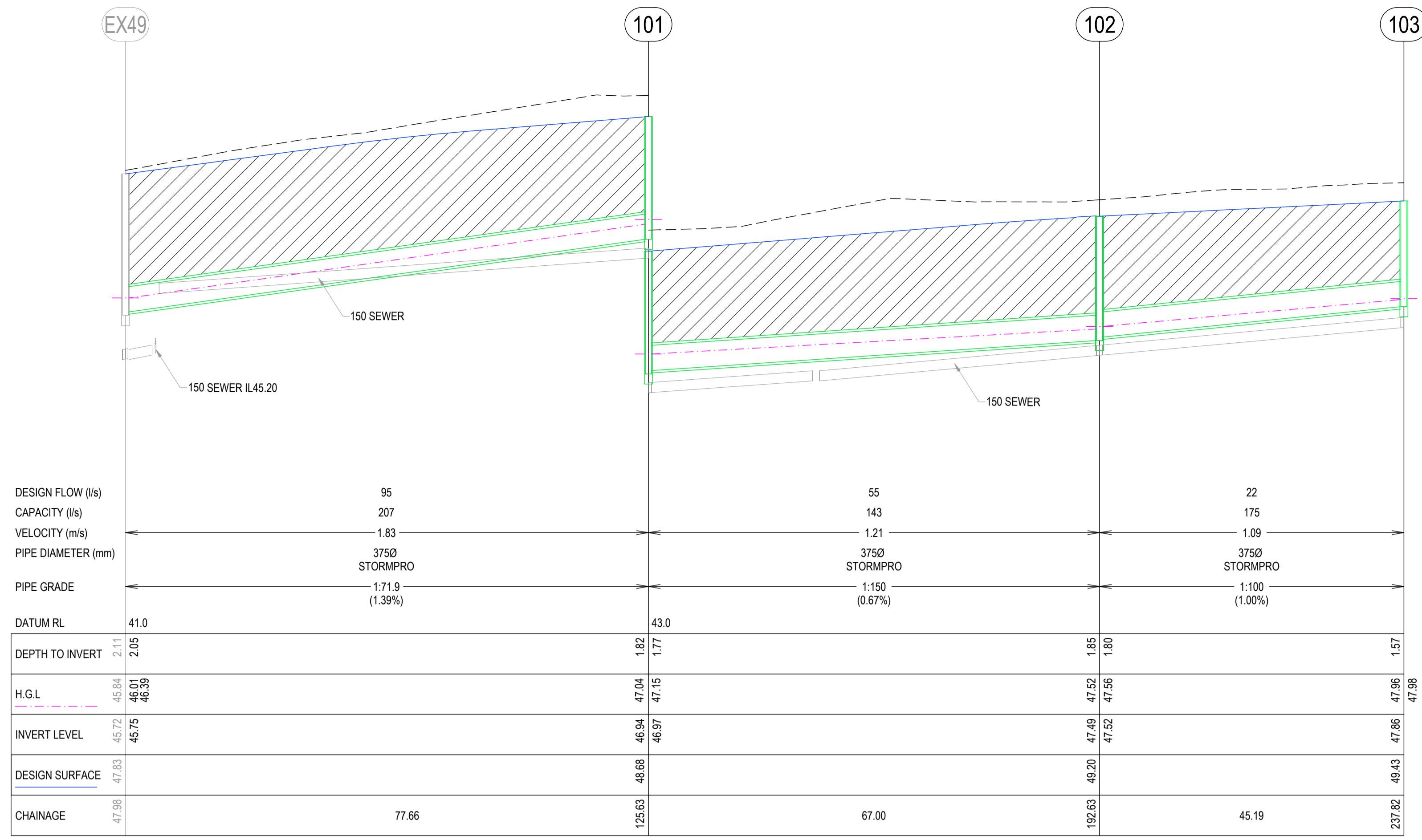
SCALE AS SHOWN
 LENGTHS ARE IN METRES



ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
INTERSECTION DETAILS
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **AS CONSTRUCTED** PROJECT & DWG No: A4041D-RD700

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AS-CONSTRUCTED SIGNATURES

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

AC AS CONSTRUCTED	NC SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
C UPDATED PIT LOCATIONS P105 & P110 ADD PITS P104A & 104B	NC MK MM 24/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE

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estuary II
LEOPOLD

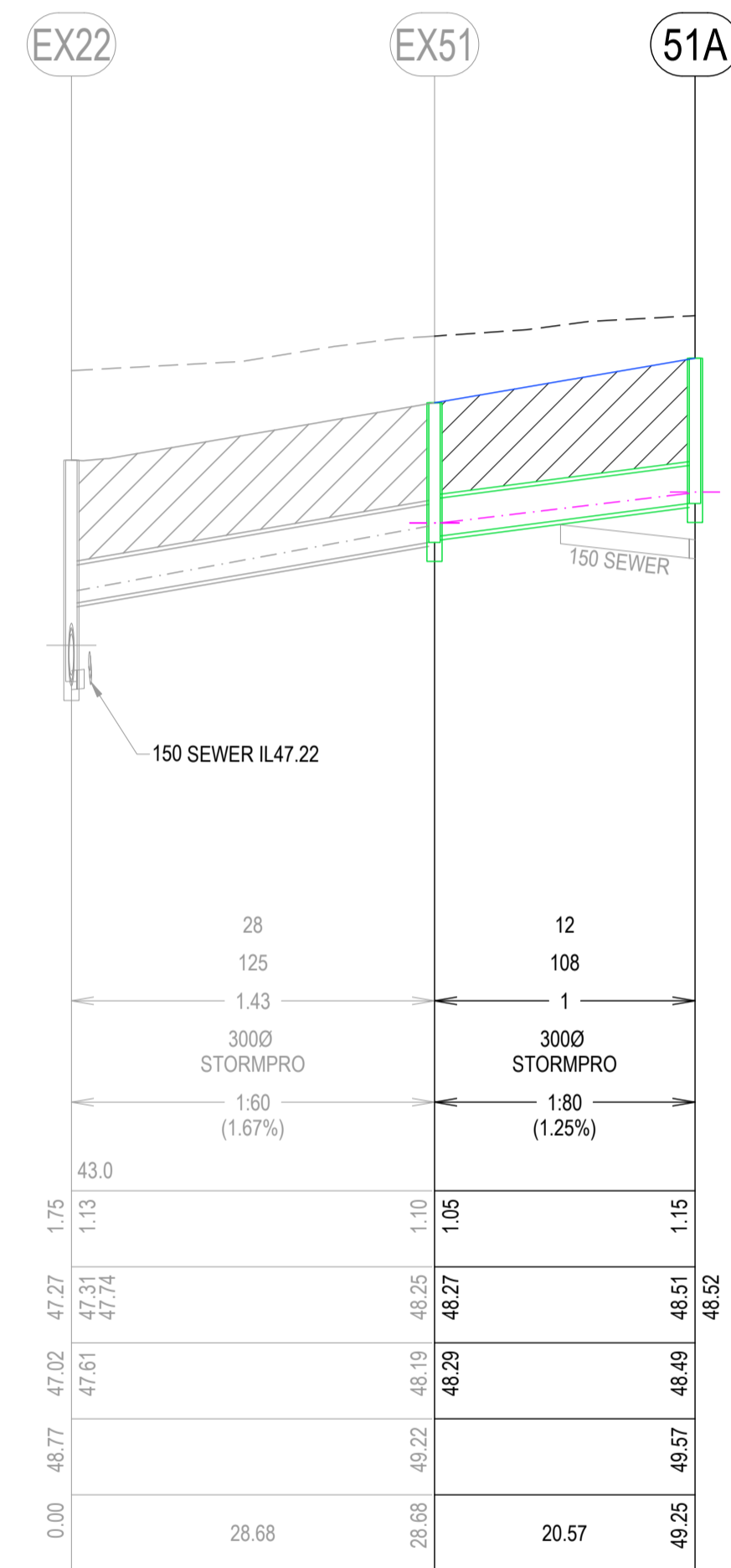
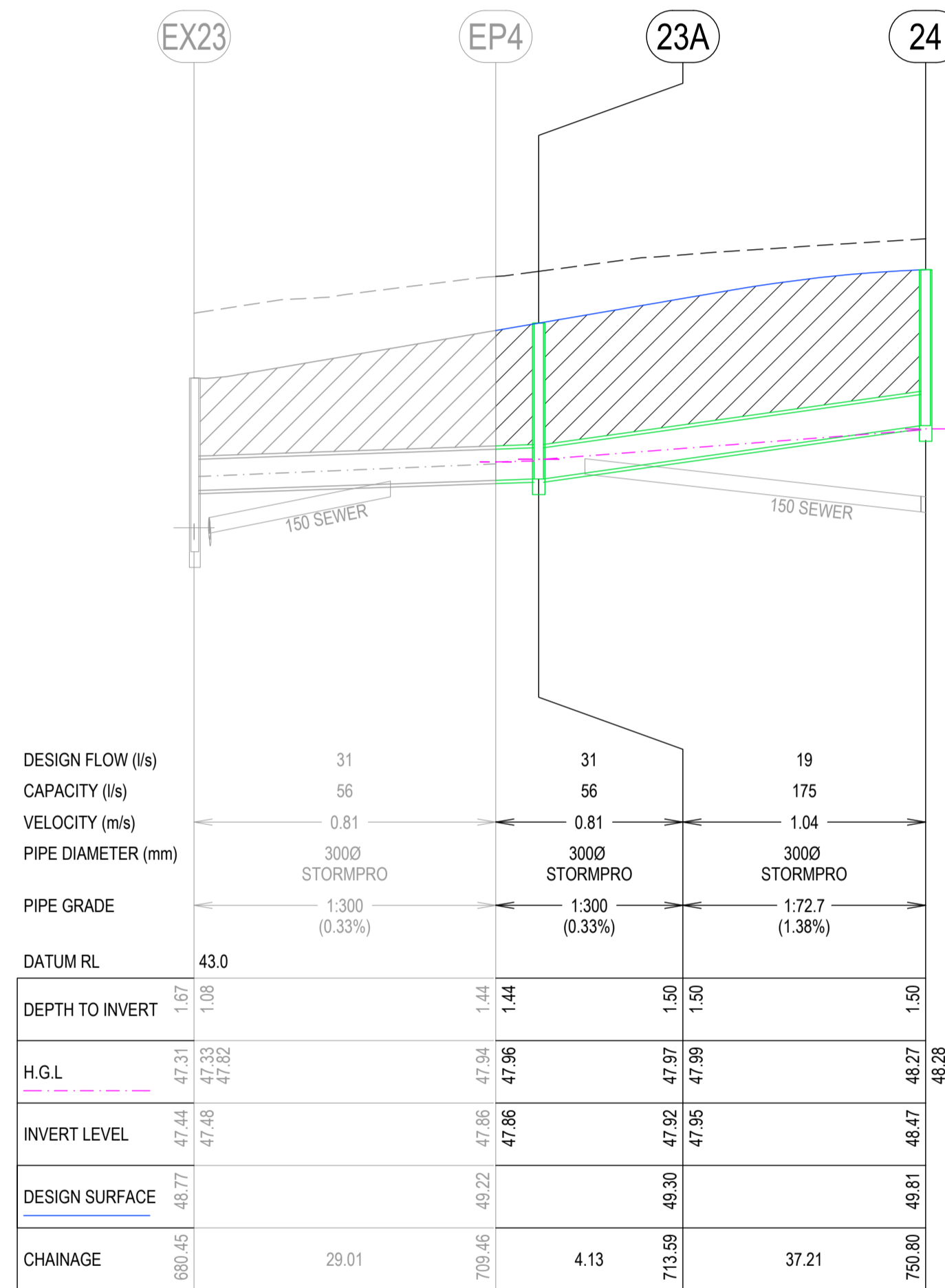
SCALE H 1:500 V 1:50 @ A1, 1:1,000 V 1:100 @ A3
LENGTHS ARE IN METRES

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ESTUARY II - STAGE 02
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: AS CONTRUCTED A4041D-RD800

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PIT SCHEDULE												
PIT NAME	PIT TYPE	LOCATION		INTERNAL		INLET		OUTLET		PIT		REMARKS
		EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	
EP4	EP	278152.065	5769111.824			300	47.860	300	47.860	49.225	1.365	CONNECT TO EX. END OF PIPE & MAKE GOOD
23A	JP	278147.963	5769112.323	600	900	375	47.950	300	47.920	49.295	1.375	REF. TO IDM SD420
24	JP	278111.025	5769116.815	600	900			300	48.470	49.809	1.339	REF. TO IDM SD420
EX49	SEP	278086.638	5768882.085	900	900	375	45.750	375	45.720	47.829	2.109	CONNECT TO EX. PIT - NORTH WALL
EX50	SEP	278078.499	5768883.088	900	900	375	45.980	375	45.660	47.827	2.167	CONNECT TO EX. PIT - NORTH WALL
EX51	SEP	278151.228	5769103.631	600	900	300	48.290	300	48.190	49.221	1.031	CONNECT TO EX. PIT - WEST WALL
51A	JP	278130.806	5769106.132	600	900			300	48.490	49.573	1.083	REF. TO IDM SD420
101	SEP	278097.419	5768958.989	600	900	375	46.970	375	46.940	48.680	1.740	REF. TO IDM SD430
102	SEP	278106.720	5769025.342	600	900	375	47.520	375	47.490	49.200	1.710	REF. TO IDM SD430
103	SEP	278112.994	5769070.096	600	900			375	47.856	49.427	1.571	REF. TO IDM SD430
104	SEP	278089.263	5768959.879	600	900	375	46.630	375	46.590	48.678	2.088	REF. TO IDM SD430
104A	JP	278095.075	5769002.414	900	900	375	46.850	375	46.820	49.033	2.213	REF. TO IDM SD420
104B	GJP	278090.072	5769008.136	600	900			300	47.655	49.189	1.534	REF. TO IDM SD420 INSTALL CLASS D BIKE SAFE GRATE
105	SEP	278099.559	5769033.32	600	900	375	47.280	375	47.250	49.235	1.985	REF. TO IDM SD430
106	SEP	278108.518	5769098.316	900	900	375	47.690	375	47.640	49.568	1.928	REF. TO IDM SD430
107	JP	278099.709	5769109.788	900	900	375	47.840	375	47.790	49.813	2.023	REF. TO IDM SD420
						375	47.830			49.808	1.978	
108	SEP	278067.507	5769113.881	600	900			375	48.200	49.647	1.447	REF. TO IDM SD430
109	JP	278095.159	5769118.908	900	900	375	47.95	375	47.920	49.781	1.861	REF. TO IDM SD420
110	SEP	278074.892	5769121.238	600	900			375	48.156	49.678	1.522	REF. TO IDM SD430

NOTE:
 * ALL PIT LIDS TO BE CLASS C AS PER COGG DESIGN NOTE 13 UNLESS OTHERWISE STATED
 * ALL UNHAUNCHED PITS REFER IDM SD405 PLUS ADDITIONAL STD IN 'REMARKS'.

AS-CONSTRUCTED SIGNATURES

SIGN: _____ DATE: _____
 TOMKINSON GROUP
 1016-8 BOSTON RD, TORQUAY 3228
 Sidney Glanville
 SIGN: _____ DATE: _____
 DRAPER'S CIVIL CONTRACTING PTY LTD
 54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	DATE
AC	AS CONSTRUCTED	MM	SP	MM	19/08/24
1	PIT SIZES UPDATED	MM	MM	MM	30/11/23
0	CONSTRUCTION ISSUE	MM	MM	MM	30/10/23
C	PIT TABLE UPDATED	NC	MK	MM	24/10/23
B	AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC	NC	MM	30/08/23
A	PRELIMINARY ISSUE	NC	PW	MM	27/03/23

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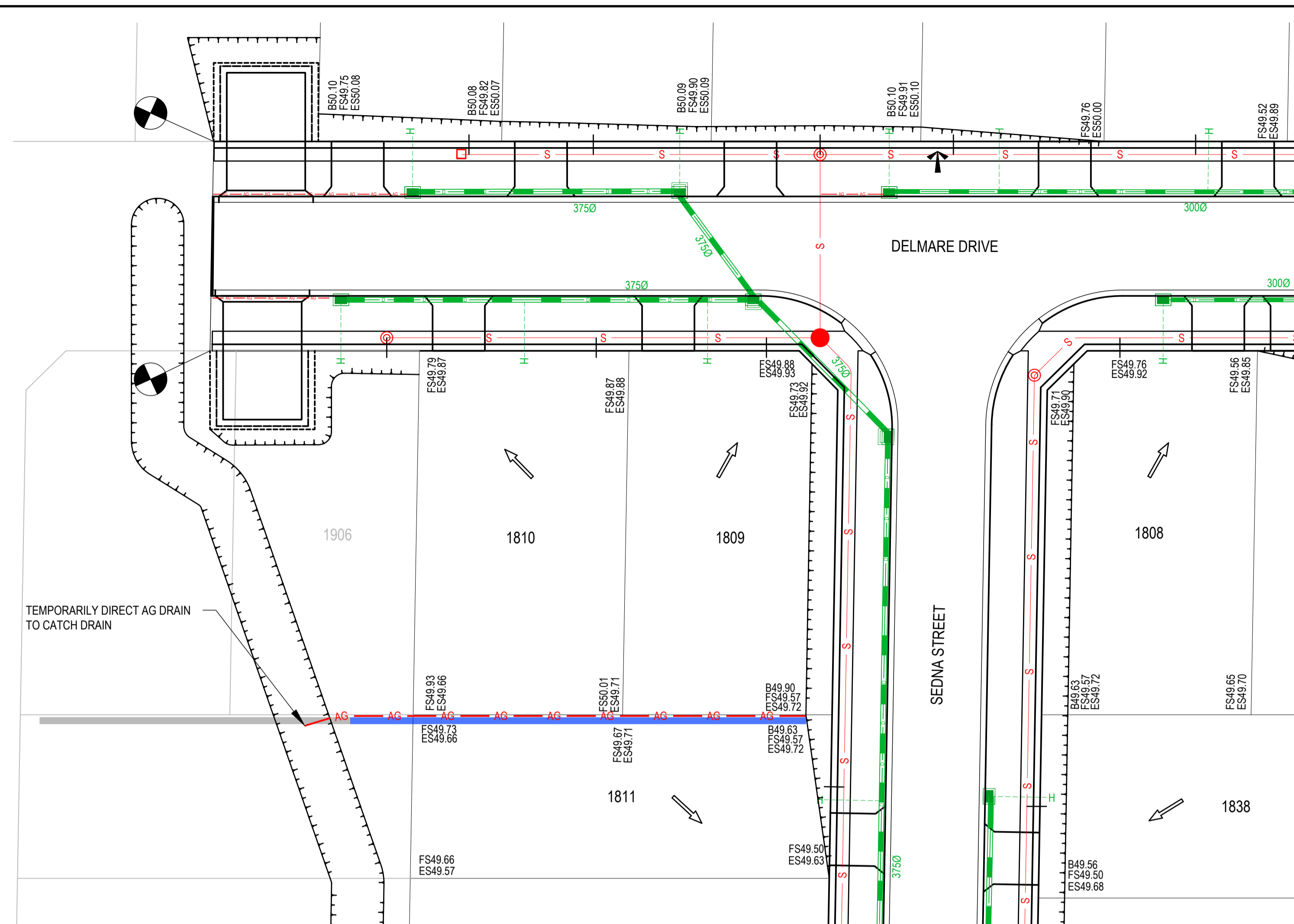
estuary II
 LEOPOLD

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

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ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE
 AUTHORITY: CITY OF GREATER GEELEONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: _____ PROJECT & DWG No: _____ REV: _____
AS CONSTRUCTED A4041D-RD801 AC

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 PLOT DATE: 20/08/2024 FILE: C:\112\DA\1\TOMK\BGO-12DS01\44041 - ASH ROAD, LEOPOLD C - VILLAWOOD DRAINAGE\44041 - STAGE 2\ROAD AND DRAINAGE\A4041D-RD800.DWG

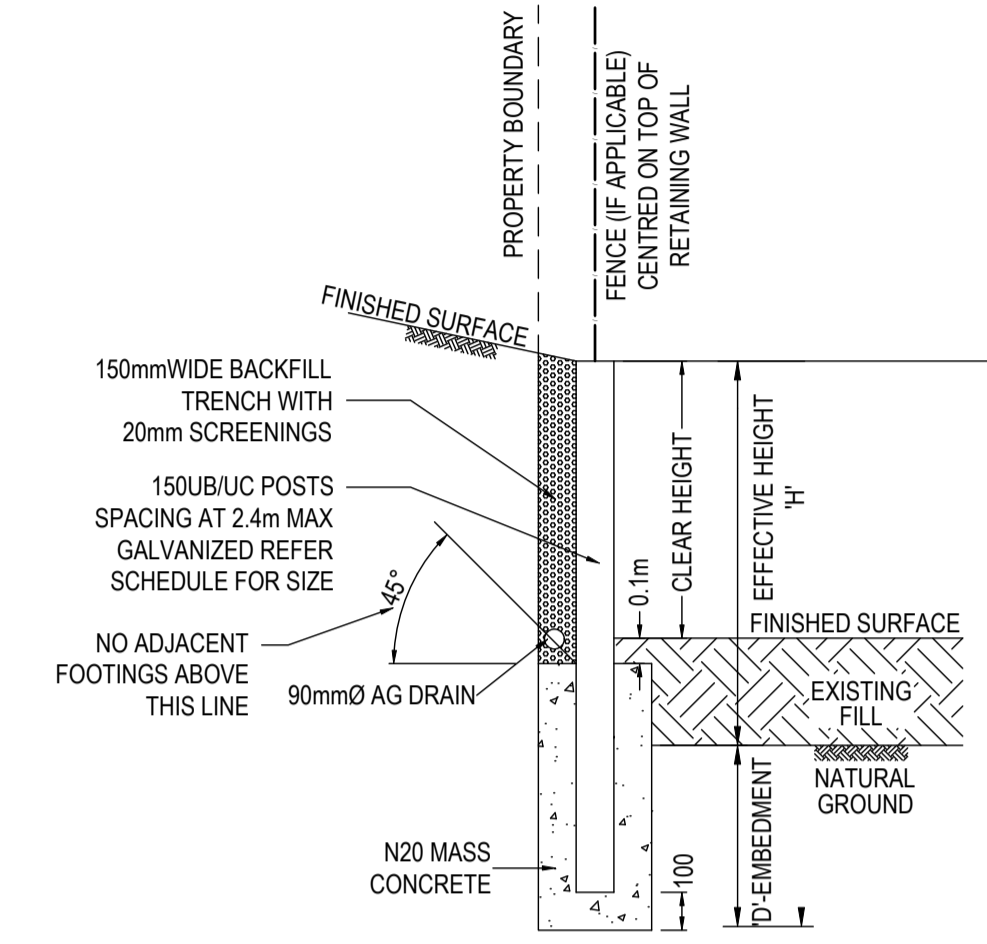


SCALE 1:250 @ A1, 1:500 @ A3
 2.5 0 2.5 5 7.5 10 12.5
 LENGTHS ARE IN METRES

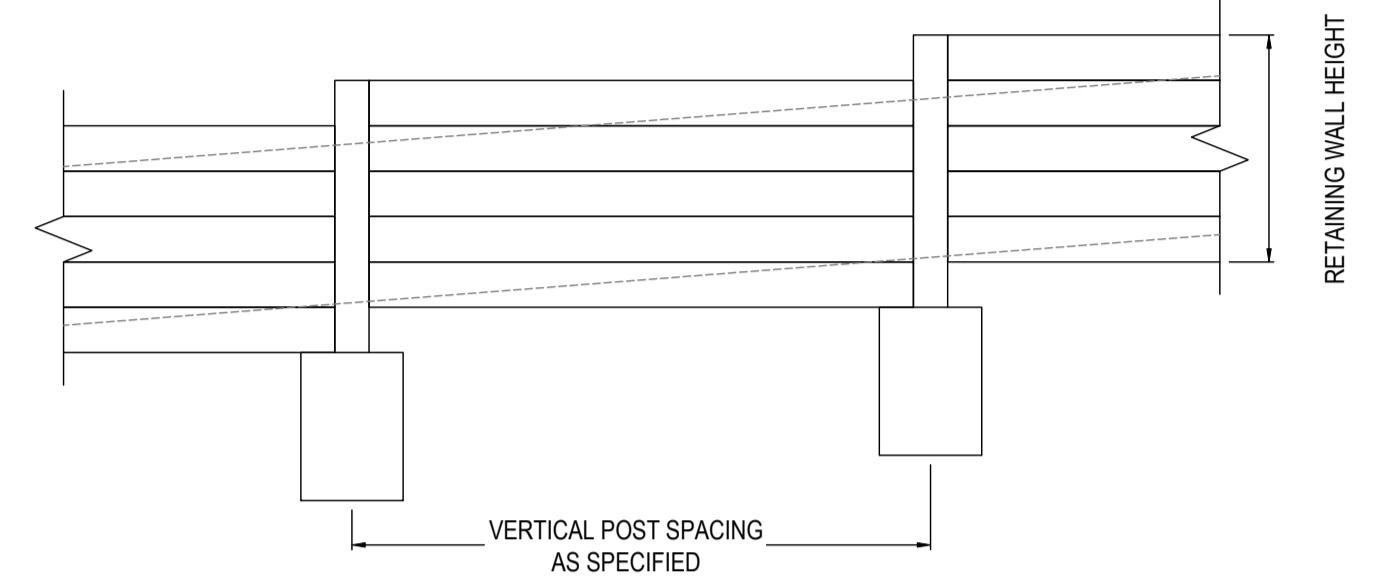
RETAINING WALL - PLAN

RETAINING WALL POST & EMBEDMENT SCHEDULE					
EFFECTIVE HEIGHT 'H' (m)	DEPTH OF EMBEDMENT 'D' (m)	DIA OF HOLE (m)	GRADE OF POSTS	150mm WIDE TRENCH OF 20mm SCREENINGS	AG DRAIN 100mmØ
0.2	0.30	0.45	150UB14.0	YES	-
0.6	0.60	0.45	150UB14.0	YES	-
1.0	0.75	0.45	150UB14.0	YES	YES

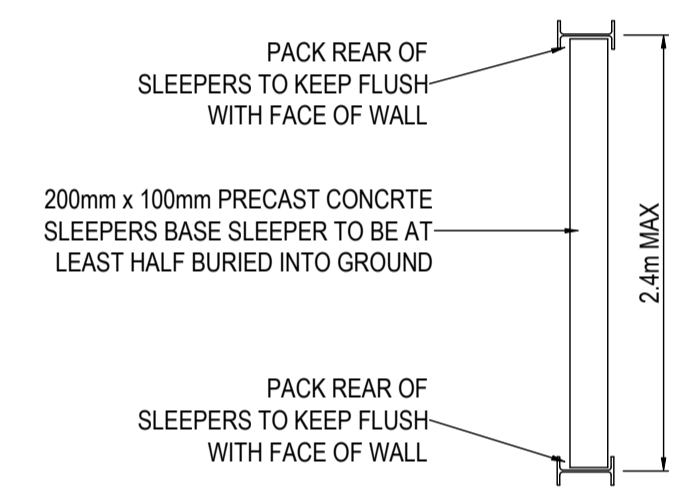
- NOTES
- 1 ALL WALLS TO HAVE 20mm SCREENING BACKFILL IN 150mm WIDE TRENCH
 - 2 ALL SCREENING BACKFILL/AG DRAINS TO HAVE POSITIVE DRAINAGE CONNECTION
 - 3 ALL SLEEPERS TO BE 200mm x 100mm PRECAST CONCRETE AS SPECIFIED
 - 4 POSTS TO BE AT 2.4m MAX CENTRES AND ANTI-RUST TREATED
 - 5 IF FENCE IS TO BE ATTACHED TO RETAINING WALL EMBEDMENT OF POSTS TO BE 600mm MIN
 - 6 FACE OF RETAINING WALL TO HAVE 1:12 SLOPE
 - 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. 20-6070" WHEN CONSTRUCTING NEXT TO EXISTING/PROPOSED DRAINAGE/SEWER.
 - 11 RETAINING WALL AND FOOTING TO BE FULLY CONTAINED WITHIN LOW SIDE LOT.



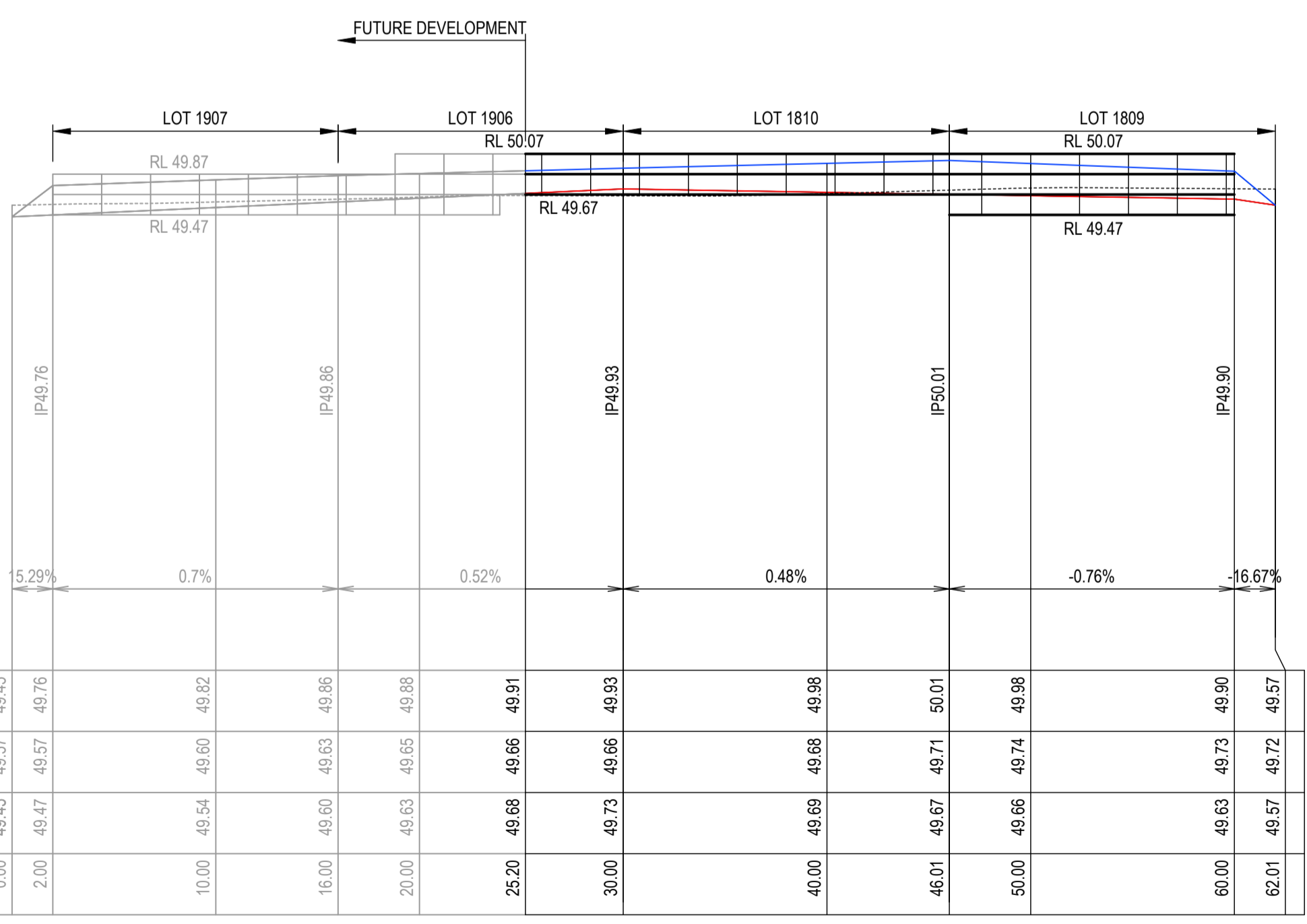
RETAINING WALL
 NOT TO SCALE



RETAINING WALL LONGITUDINAL DETAIL
 NOT TO SCALE



CONNECTING TO EXISTING
 NOT TO SCALE



RETAINING WALL - LONGITUDINAL SECTION

DESIGN CL.	HORIZ. GEOMETRY												
	15.29%	0.7%	0.52%	0.48%	-0.76%	-16.67%							
DATUM RL 45.0	49.45	49.57	49.76	49.82	49.86	49.88	49.91	49.93	49.98	50.01	49.98	49.90	49.57
DESIGN SURFACE HIGH SIDE	49.45	49.57	49.76	49.82	49.86	49.88	49.91	49.93	49.98	50.01	49.98	49.90	49.57
EXISTING	49.45	49.57	49.76	49.82	49.86	49.88	49.91	49.93	49.98	50.01	49.98	49.90	49.57
DESIGN SURFACE LOW SIDE	49.45	49.47	49.57	49.60	49.63	49.65	49.68	49.73	49.68	49.74	49.72	49.57	49.57
CHAINAGE	0.00	2.00	10.00	16.00	20.00	25.20	30.00	46.01	50.00	62.01	60.00	62.01	62.01

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

AS-CONSTRUCTED SIGNATURES

SIGN: *[Signature]* DATE: _____
 TOMKINSON GROUP
 10/6-8 BOSTON RD, TORQUAY 3228

SIGN: *[Signature]* DATE: _____
 DRAPER'S CIVIL CONTRACTING PTY LTD
 54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	DATE
AC	AS CONSTRUCTED	MM	SP	MM	19/08/24
0	CONSTRUCTION ISSUE	MM	MM	MM	30/10/23
C	AG DRAIN ADDED TO RETAINING WALL PLAN	NC	MK	MM	24/10/23
B	AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC	NC	MM	30/08/23
A	PRELIMINARY ISSUE	NC	PW	MM	27/03/23



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SCALE AS SHOWN
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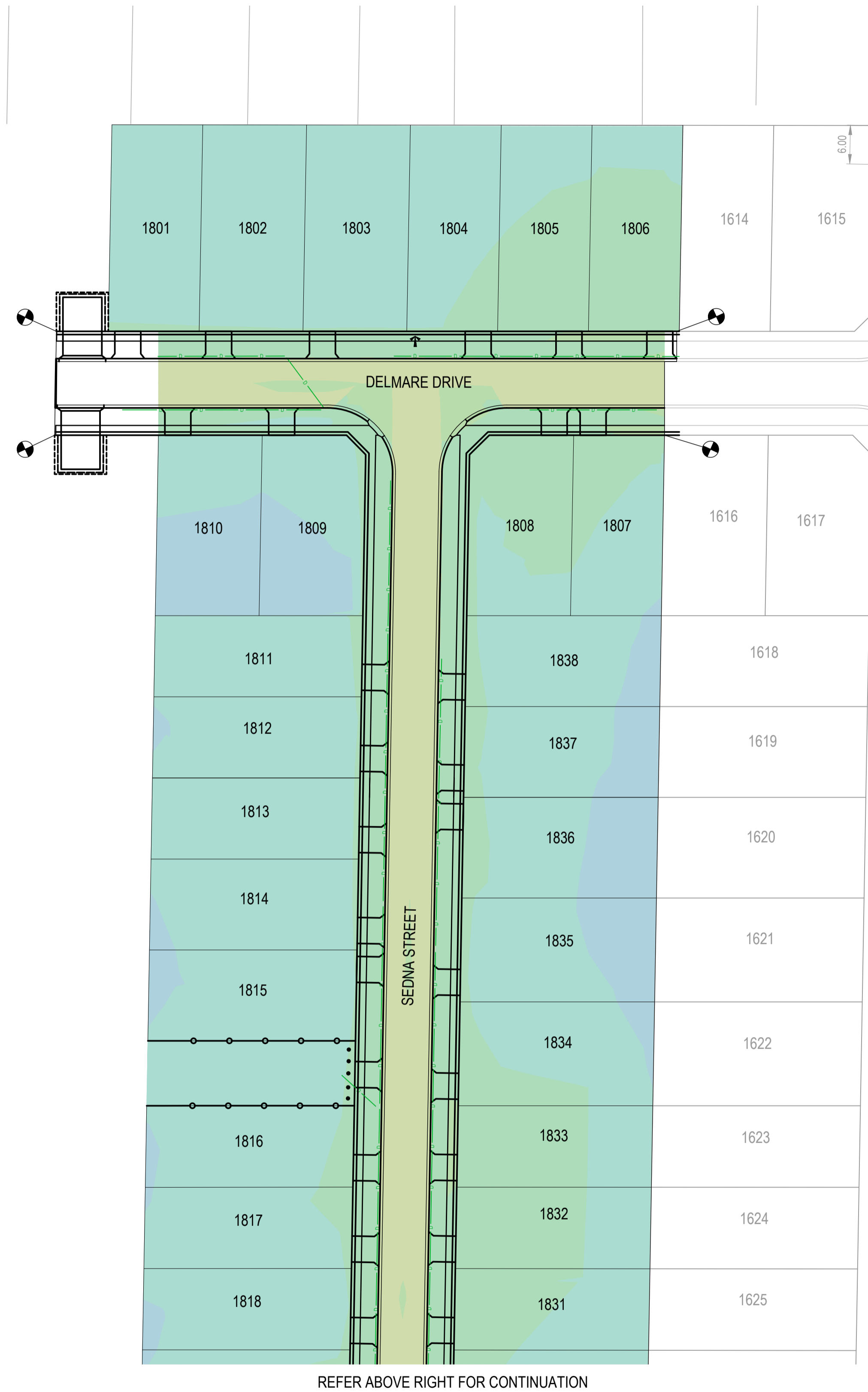
ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
RETAINING WALL DETAIL PLAN

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

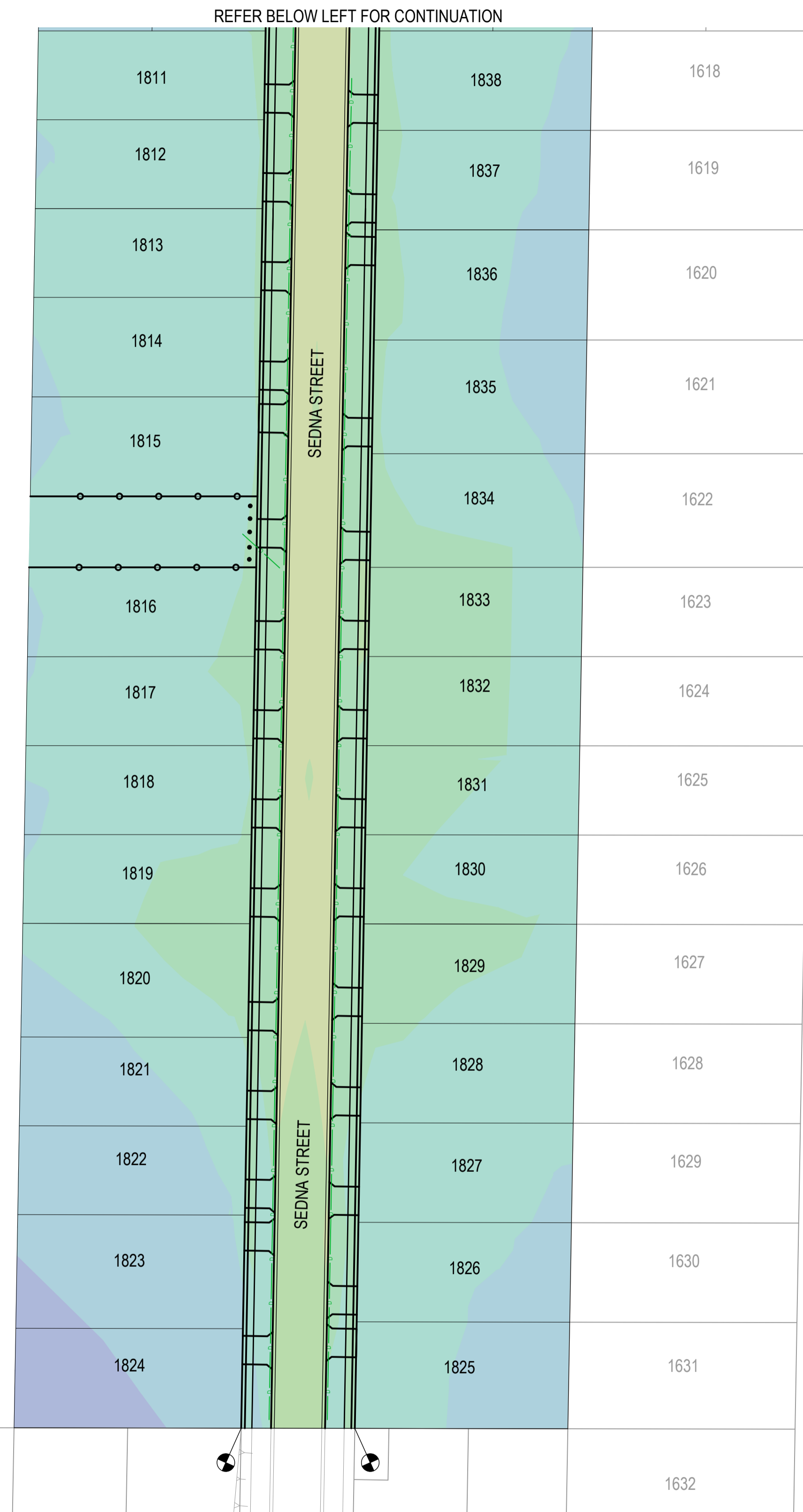
DWG STATUS: PROJECT & DWG No: A4041D-RD900

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 PLOT DATE: 20/08/2024 FILE: C:\12\DDA\1A\TOM\B30-12DS01\44041 - ASH ROAD, LEOPOLD - STAGE 02\ROAD AND DRAINAGE\A4041D-RD900.DWG



REFER ABOVE RIGHT FOR CONTINUATION



REFER BELOW LEFT FOR CONTINUATION

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 0.0m		
0.0 - 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	532m ³
FILL	393m ³

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

AS-CONSTRUCTED SIGNATURES

SIGN: DATE: _____
 TOMKINSON GROUP
 10/6-8 BOSTON RD, TORQUAY 3228

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

AC AS CONSTRUCTED	MM SP MM 19/08/24
0 CONSTRUCTION ISSUE	MM MM MM 30/10/23
B AMENDED TO COUNCIL COMMENTS DATED 08/08/23	NC NC MM 30/08/23
A PRELIMINARY ISSUE	NC PW MM 27/03/23
REV	DES DWG CHK DATE

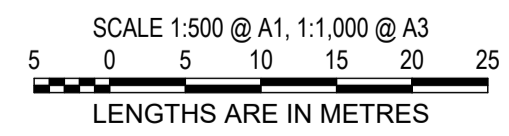


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ESTUARY II - STAGE 02
ASH ROAD, LEOPOLD
ROAD AND DRAINAGE
BULK EARTHWORKS
 AUTHORITY: CITY OF GREATER GEELONG
 CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: PROJECT & DWG No: **AS CONSTRUCTED A4041D-RD901**

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