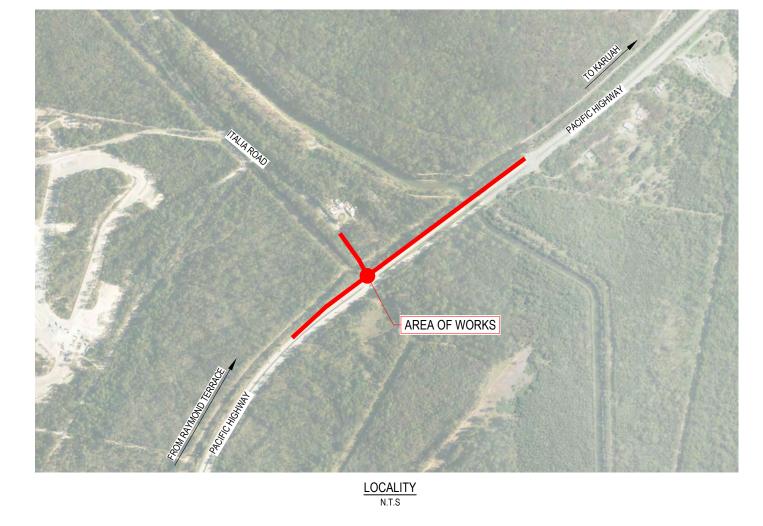
BORAL RESOURCES (NSW) PTY LTD BORAL QUARRY SEAHAM ITALIA ROAD INTERSECTION 12599191



DRAWING INDEX			
DRAWING No.	DRAWING TITLE		
12599191-GHD-00-00-DRG-CI-01001	COVER SHEET, LOCALITY AND DRAWING INDEX		
12599191-GHD-00-00-DRG-CI-01031	TYPICAL SECTIONS - SHEET 1 OF 1		
12599191-GHD-00-00-DRG-CI-01051	OVERVIEW PLAN		
12599191-GHD-00-00-DRG-CI-01101	DETAIL PLAN - SHEET 1 OF 3		
12599191-GHD-00-00-DRG-CI-01102	DETAIL PLAN - SHEET 2 OF 3		
12599191-GHD-00-00-DRG-CI-01103	DETAIL PLAN - SHEET 3 OF 3		
12599191-GHD-00-00-DRG-CI-01111	LONGITUDINAL SECTIONS - SHEET 1 OF 4		
12599191-GHD-00-00-DRG-CI-01112	LONGITUDINAL SECTIONS - SHEET 2 OF 4		
12599191-GHD-00-00-DRG-CI-01113	LONGITUDINAL SECTIONS - SHEET 3 OF 4		
12599191-GHD-00-00-DRG-CI-01114	LONGITUDINAL SECTIONS - SHEET 4 OF 4		
12599191-GHD-00-00-DRG-CI-01301	ROADSIDE FURNITURE AND PAVEMENT PLAN - SHEET 1 OF 3		
12599191-GHD-00-00-DRG-CI-01302	ROADSIDE FURNITURE AND PAVEMENT PLAN - SHEET 2 OF 3		
12599191-GHD-00-00-DRG-CI-01303	ROADSIDE FURNITURE AND PAVEMENT PLAN - SHEET 3 OF 3		
12599191-GHD-00-00-DRG-CI-01401	TURNING PATHS		
12599191-GHD-00-00-DRG-CI-01501	EROSION AND SEDIMENT CONTROL PLAN - SHEET 1 OF 3		
12599191-GHD-00-00-DRG-CI-01502	EROSION AND SEDIMENT CONTROL PLAN - SHEET 2 OF 3		
12599191-GHD-00-00-DRG-CI-01503	EROSION AND SEDIMENT CONTROL PLAN - SHEET 3 OF 3		
12599191-GHD-00-00-DRG-CI-01511	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS		
12599191-GHD-00-00-DRG-CI-01601	CROSS SECTION - SHEET 1 OF 6		
12599191-GHD-00-00-DRG-CI-01602	CROSS SECTION - SHEET 2 OF 6		
12599191-GHD-00-00-DRG-CI-01603	CROSS SECTION - SHEET 3 OF 6		
12599191-GHD-00-00-DRG-CI-01604	CROSS SECTION - SHEET 4 OF 6		
12599191-GHD-00-00-DRG-CI-01605	CROSS SECTION - SHEET 5 OF 6		
12599191-GHD-00-00-DRG-CI-01606	CROSS SECTION - SHEET 6 OF 6		
12599191-GHD-00-00-DRG-CI-01701	RETAINING WALL LOCATIONS AND PROFILES - SHEET 1 OF 1		

10		Client	BORAL RESOURCES (NS
10	www.ghd.com	Project	BORAL QUARRY SEAHA
	Project No. 12599191	Status	FOR APPROVAL

B.DREW	Drafting Check	C.PURDON			
escription		(Checked	Approved	Date
RELIMINARY ISSU	JE FOR DISCUSS	SION			09.06.23
RELIMINARY ISSU	JE FOR DISCUSS	SION			13.06.23
ONCEPT DESIGN	FOR DA APPRO	VAL			26.06.23
ONCEPT DESIGN	FOR DA APPRO	VAL	A.S.	G.W.	27.07.23
ONCEPT DESIGN	FOR DA APPRO	VAL	AS	GW	18.06.24







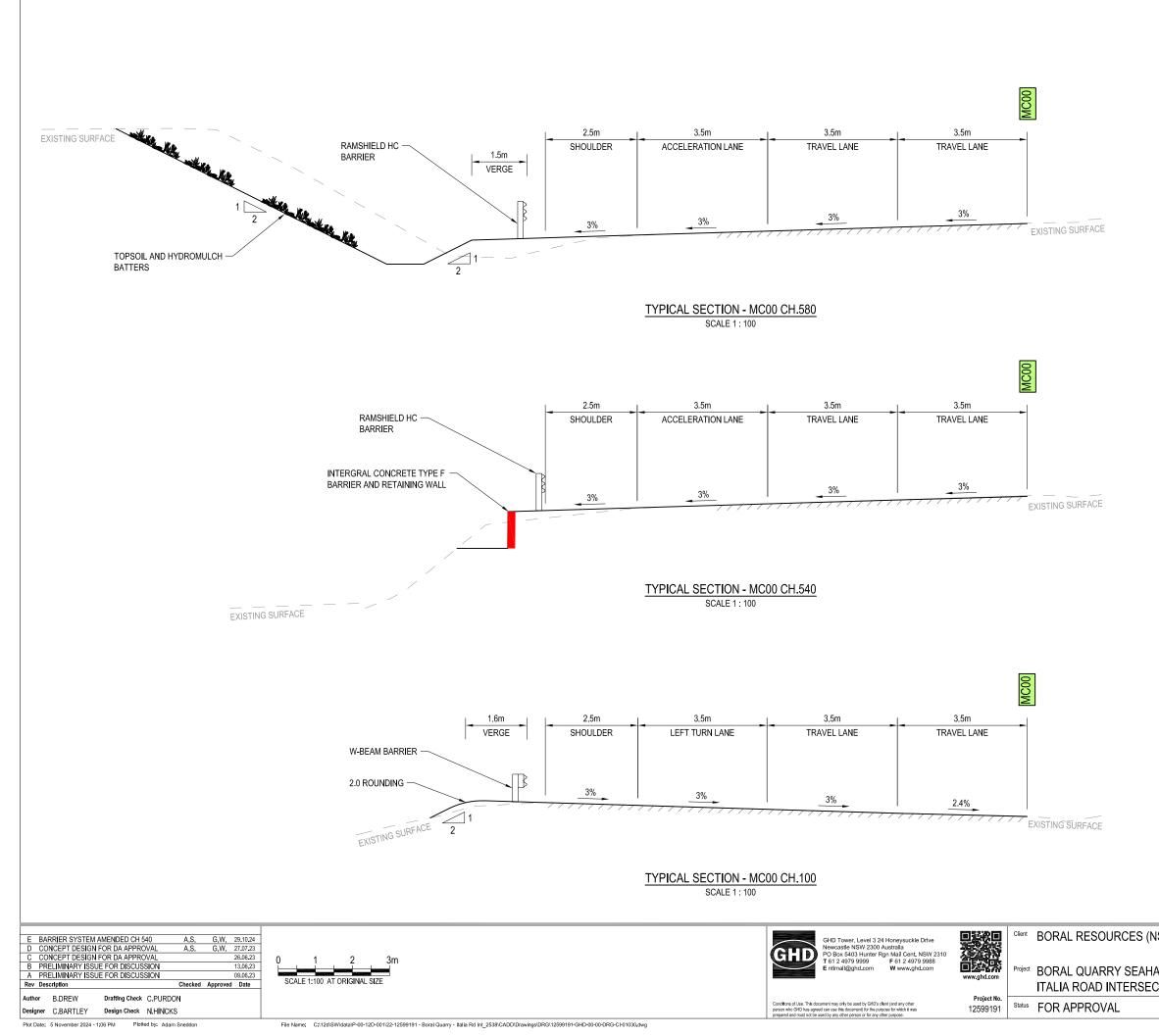


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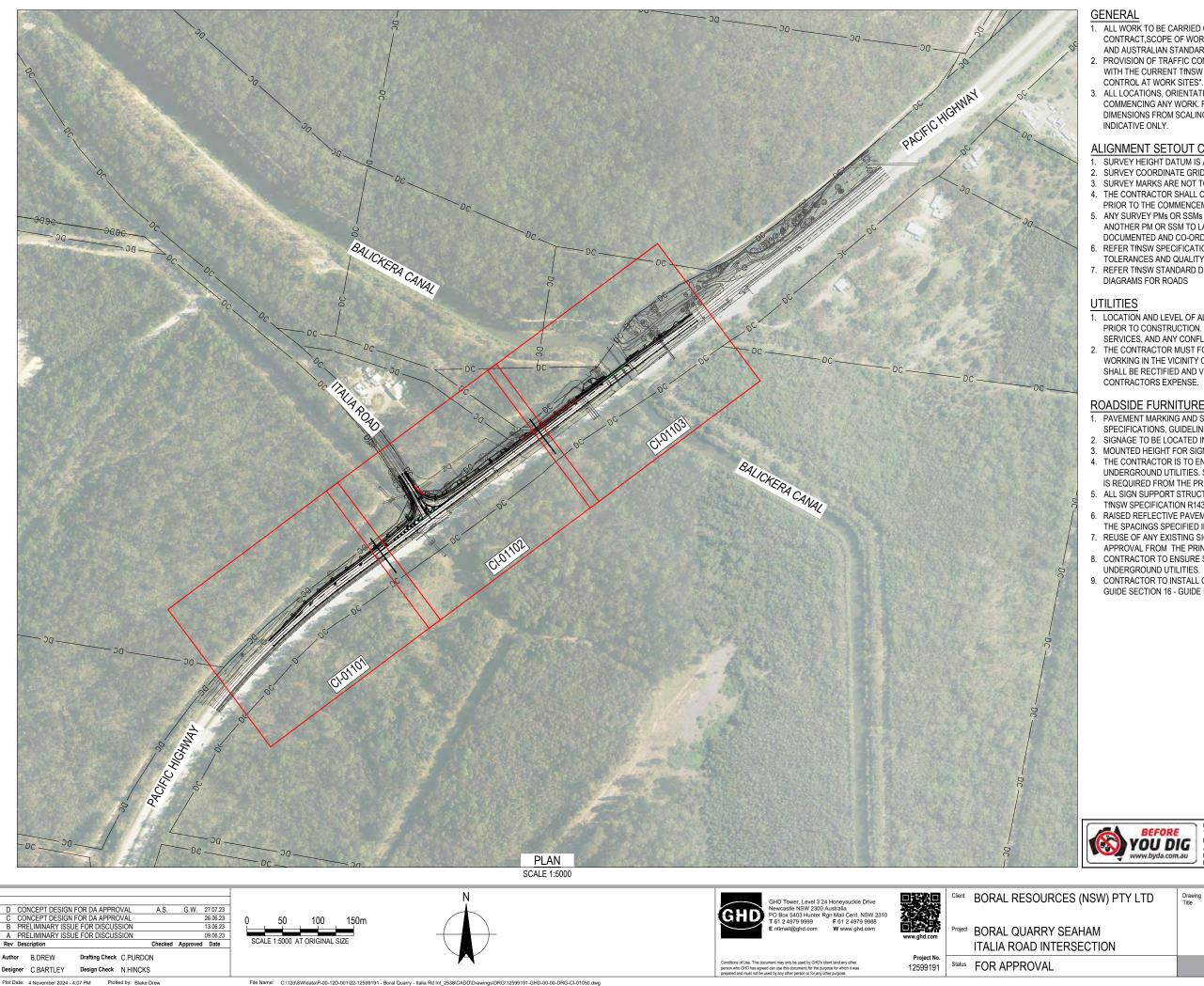
Drawing COVERSHEET, LOCALITY AND DRAWINGS INDEX

AM CTION

Size



NSW) PTY LTD		^{Size} A3
IAM CTION	SHEET 1 OF 1	
	Drawing No. 12599191-GHD-00-00-DRG-CI-01031	^{Rev}



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- 1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT CONTRACT, SCOPE OF WORKS AND SPECIFICATIONS, INCLUDING THE RELEVANT TRNSW
- AND AUSTRALIAN STANDARDS UNLESS NOTED OTHERWISE. 2. PROVISION OF TRAFFIC CONTROL DURING CONSTRUCTION TO BE IN ACCORDANCE WITH THE CURRENT TRNSW SPECIFICATION G10 AND TRNSW PUBLICATION "TRAFFIC
- 3. ALL LOCATIONS, ORIENTATIONS AND LEVELS TO BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK. REFER DISCREPANCIES TO THE PRINCIPAL. DO NOT OBTAIN DIMENSIONS FROM SCALING. NATURAL SURFACE LEVELS ON THE DRAWINGS ARE

ALIGNMENT SETOUT CONTROL PLANS AND TABLES

- 1. SURVEY HEIGHT DATUM IS AHD.
- 2. SURVEY COORDINATE GRID IS MGA2020, ZONE 56.
- 3. SURVEY MARKS ARE NOT TO BE DISTURBED BEFORE ASSESSMENT BY SURVEYOR.
- 4. THE CONTRACTOR SHALL CHECK SUSTAINABILITY OF THE STATED COORDINATES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 5. ANY SURVEY PMs OR SSMs THAT ARE DESTROYED ARE TO BE REPLACED WITH ANOTHER PM OR SSM TO LANDS DEPARTMENT STANDARDS. IT ALSO SHOULD BE DOCUMENTED AND CO-ORDINATED TO EQUIVALENT LANDS DEPARTMENT STANDARDS. 6. REFER TINSW SPECIFICATION G71 FOR SURVEY REQUIREMENTS FOR SPATIAL
- TOLERANCES AND QUALITY ASSURANCE REQUIREMENTS
- 7. REFER TINSW STANDARD DRAWINGS R0400-01 AND R0400-02 FOR SETTING OUT

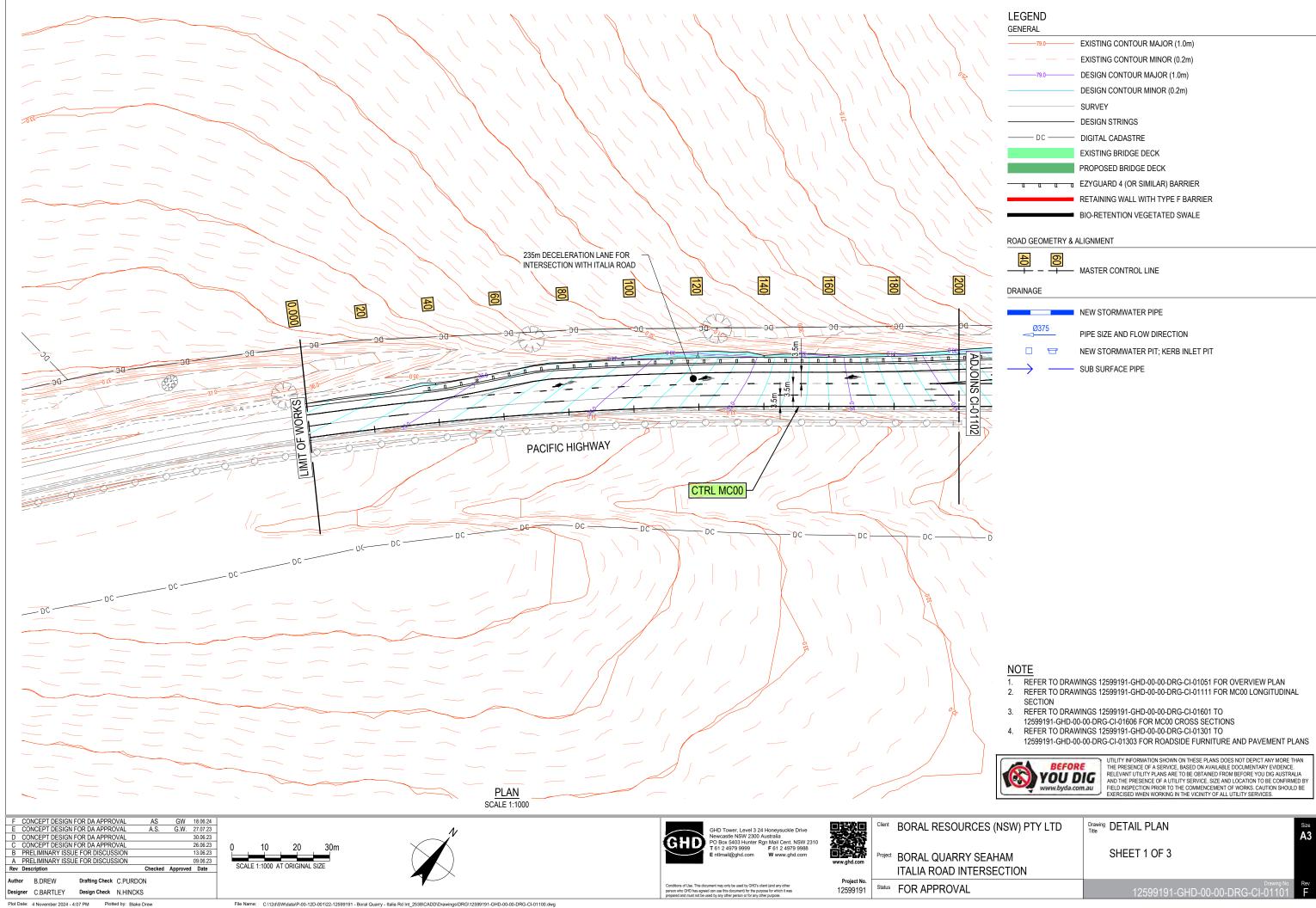
- 1. LOCATION AND LEVEL OF ALL EXISTING AND PROPOSED SERVICES MUST BE OBTAINED PRIOR TO CONSTRUCTION. ALL LEVELS MUST BE CHECKED FOR CONFLICT WITH ANY SERVICES, AND ANY CONFLICTS TO BE RAISED WITH THE PRINCIPAL.
- 2. THE CONTRACTOR MUST FOLLOW ALL UTILITY AUTHORITIES "DUTY OF CARE" WHEN WORKING IN THE VICINITY OF SERVICES. ANY DAMAGE TO THE EXISTING SERVICES SHALL BE RECTIFIED AND VERIFIED WITH THE AUTHORITY REPRESENTATIVE AT THE CONTRACTORS EXPENSE.

ROADSIDE FURNITURE AND DELINEATION

- 1. PAVEMENT MARKING AND SIGNAGE TO BE IN ACCORDANCE WITH THNSW SPECIFICATIONS, GUIDELINES AND STANDARDS.
- 2. SIGNAGE TO BE LOCATED IN ACCORDANCE WITH AS1742.
- 3. MOUNTED HEIGHT FOR SIGNS TO BE 1.5m MIN.
- 4. THE CONTRACTOR IS TO ENSURE THAT SIGN FOOTINGS DO NOT CLASH WITH UNDERGROUND UTILITIES. SHOULD SIGN LOCATIONS NEED TO BE MOVED, APPROVAL IS REQUIRED FROM THE PRINCIPAL.
- 5. ALL SIGN SUPPORT STRUCTURES ARE TO BE GRADE C320LO IN ACCORDANCE WITH TfNSW SPECIFICATION R143 UNLESS NOTED OTHERWISE.
- 6. RAISED REFLECTIVE PAVEMENT MARKERS TO BE INSTALLED IN ACCORDANCE WITH THE SPACINGS SPECIFIED IN THE TRNSW DELINEATION GUIDELINES.
- 7. REUSE OF ANY EXISTING SIGN FACES AND SUPPORT STRUCTURES REQUIRE APPROVAL FROM THE PRINCIPAL.
- 8. CONTRACTOR TO ENSURE SAFETY BARRIER FOOTINGS DO NOT CLASH WITH UNDERGROUND UTILITIES.
- 9. CONTRACTOR TO INSTALL GUIDE POSTS IN ACCORDANCE WITH TRNSW DELINEATION GUIDE SECTION 16 - GUIDE POSTS AND DELINEATION OF SAFETY BARRIERS.

UTILITY INFORMATION SHOWN ON THESE PLANS DOES NOT DEPICT ANY MORE THAN THE PRESENCE OF A SERVICE, BASED ON AVAILABLE DOCUMENTARY EVIDENCE. THE PRESENCE OF SERVICE, BASEL ON WARLASE DUCOMENTARY ENJERCE RELEVANT UTLITY PLANS ARE TO BE OBTAINED FROM BEFORE YOU DIG AUSTRALIA AND THE PRESENCE OF A UTLITY SERVICE, SIZE AND LOCATION TO BE CONFIRMED BY FIELD INSPECTION PRIOR TO THE COMMENCEMENT OF WORKS, CAUTION SHOULD BE EXERCISED WHEN WORKING IN THE VICINITY OF ALL UTLITY SERVICES.

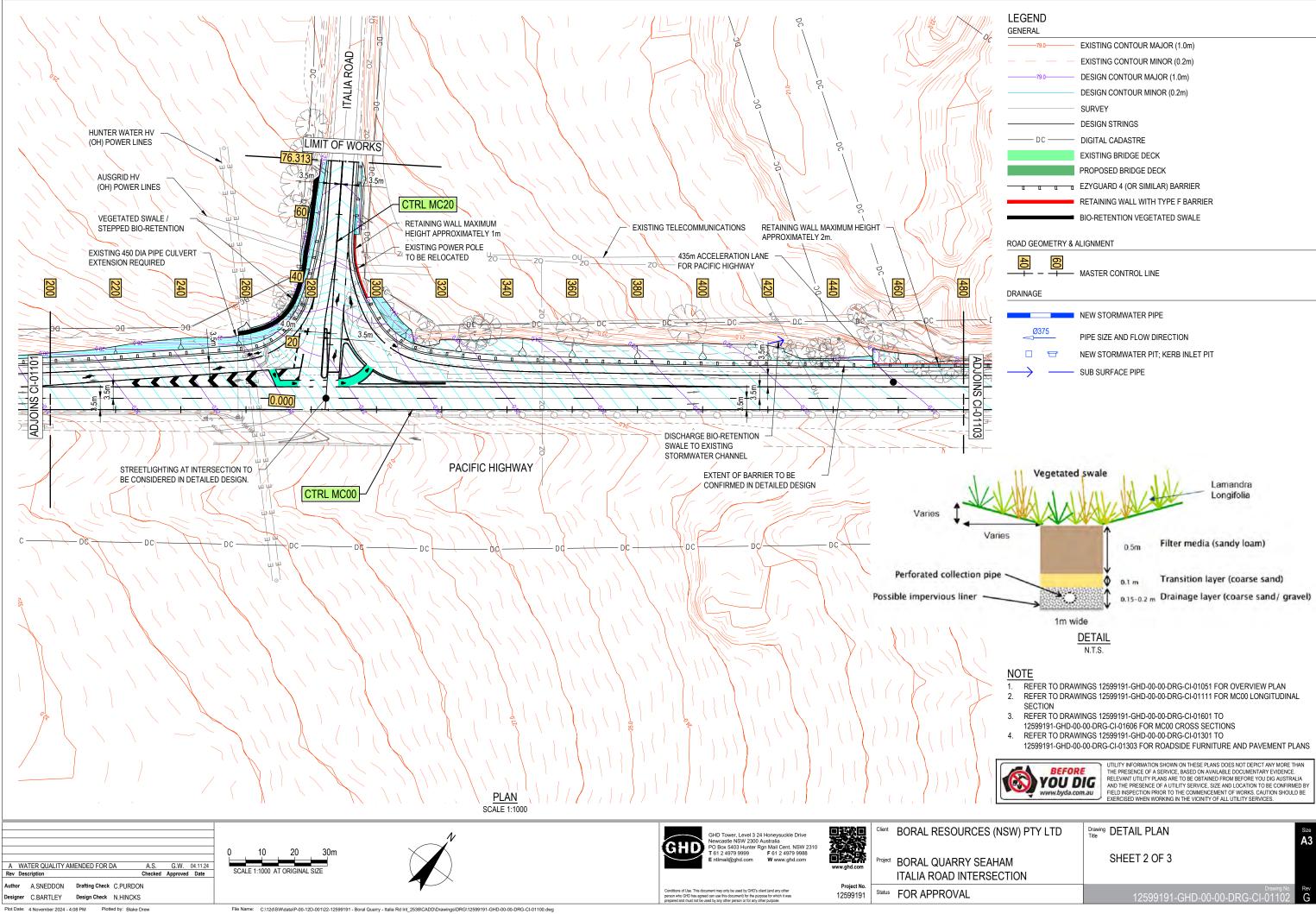
SW) PTY LTD	Drawing OVERVIEW PLAN AND GENERAL NOTES	Size A3
M TION		
	Drawing No. 12599191-GHD-00-00-DRG-CI-01051	Rev D



GENERAL	
79.0	 EXISTING CONTOUR MAJOR (1.0m)
	 EXISTING CONTOUR MINOR (0.2m)
79.0	 DESIGN CONTOUR MAJOR (1.0m)
	– DESIGN CONTOUR MINOR (0.2m)
	- SURVEY
	– DESIGN STRINGS
DC	- DIGITAL CADASTRE
	EXISTING BRIDGE DECK
	PROPOSED BRIDGE DECK
<u> </u>	EZYGUARD 4 (OR SIMILAR) BARRIER
	RETAINING WALL WITH TYPE F BARRIER
	BIO-RETENTION VEGETATED SWALE

	MASTER CONTROL LINE
DRAINAGE	
	NEW STORMWATER PIPE
Ø375	PIPE SIZE AND FLOW DIRECTION
	NEW STORMWATER PIT; KERB INLET PIT

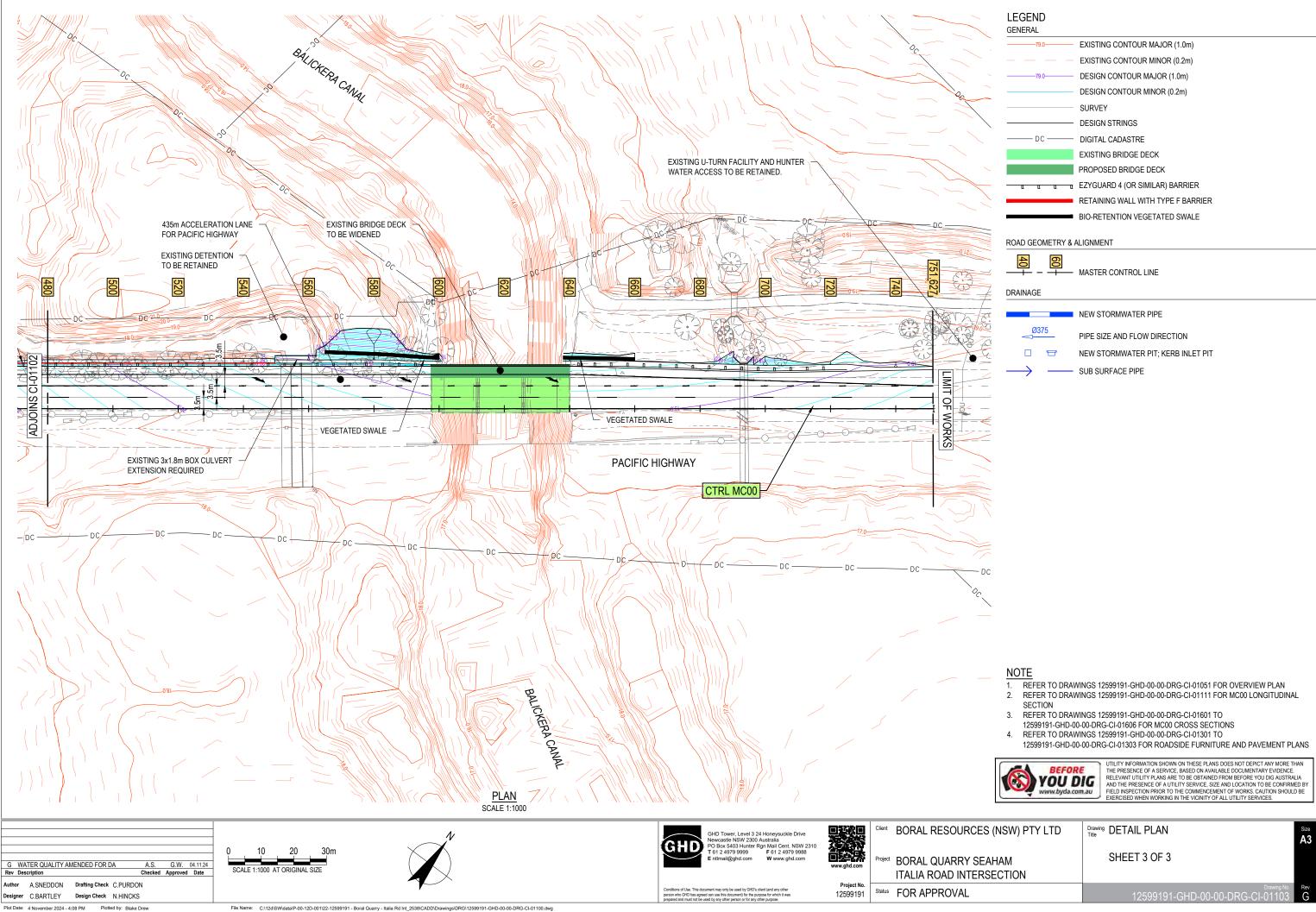
SW) PTY LTD	Drawing DETAIL PLAN	Size A3
M TION	SHEET 1 OF 3	
	Drawing No. 12599191-GHD-00-00-DRG-CI-01101	Rev F



GENERAL	
79.0	 EXISTING CONTOUR MAJOR (1.0m)
	 EXISTING CONTOUR MINOR (0.2m)
79.0	 DESIGN CONTOUR MAJOR (1.0m)
	– DESIGN CONTOUR MINOR (0.2m)
	- SURVEY
	- DESIGN STRINGS
DC	- DIGITAL CADASTRE
	EXISTING BRIDGE DECK
-	PROPOSED BRIDGE DECK
<u> </u>	EZYGUARD 4 (OR SIMILAR) BARRIER
	RETAINING WALL WITH TYPE F BARRIER
	■ BIO-RETENTION VEGETATED SWALE

	ASTER CONTROL LINE
DRAINAGE	
NE	EW STORMWATER PIPE
Ø375 	PE SIZE AND FLOW DIRECTION
🗆 🐨 NE	EW STORMWATER PIT; KERB INLET PIT
\longrightarrow — su	JB SURFACE PIPE

SW) PTY LTD	Drawing DETAIL PLAN	Size A3
M TION	SHEET 2 OF 3	
	Drawing No. 12599191-GHD-00-00-DRG-CI-01102	Rev

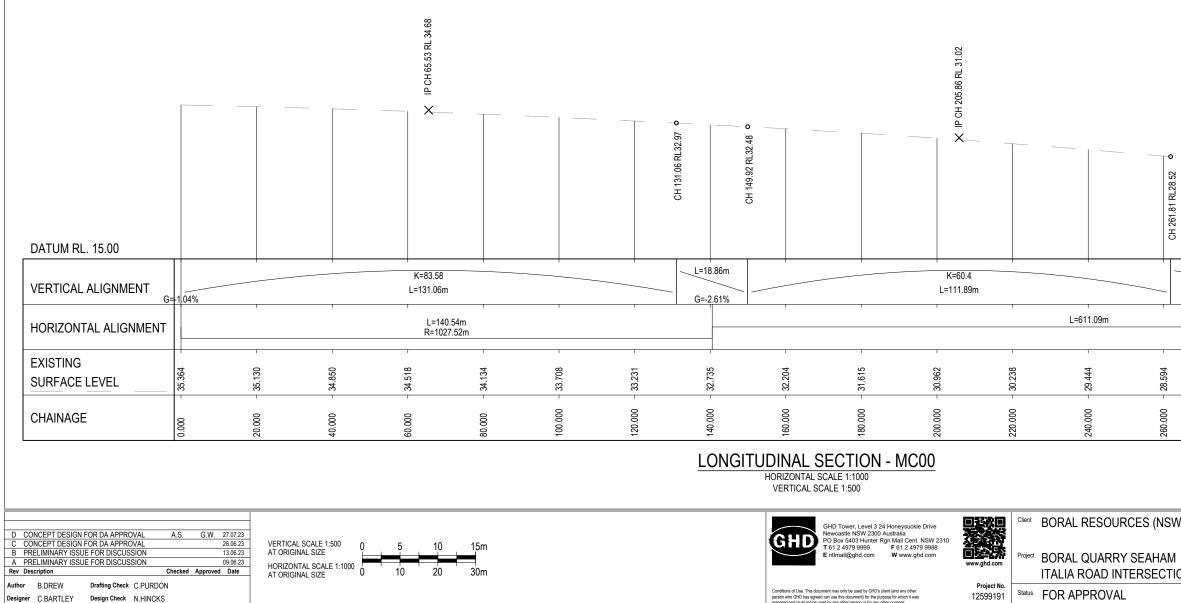


GENERAL	
79.0	— EXISTING CONTOUR MAJOR (1.0m)
	 EXISTING CONTOUR MINOR (0.2m)
79.0	— DESIGN CONTOUR MAJOR (1.0m)
	— DESIGN CONTOUR MINOR (0.2m)
	- SURVEY
	— DESIGN STRINGS
DC	— DIGITAL CADASTRE
	EXISTING BRIDGE DECK
	PROPOSED BRIDGE DECK
<u> </u>	-I EZYGUARD 4 (OR SIMILAR) BARRIER
	RETAINING WALL WITH TYPE F BARRIER
	BIO-RETENTION VEGETATED SWALE

	MASTER CONTROL LINE
DRAINAGE	
	NEW STORMWATER PIPE
Ø375	PIPE SIZE AND FLOW DIRECTION
	NEW STORMWATER PIT; KERB INLET PIT

SW) PTY LTD	Drawing DETAIL PLAN	Size A3
M TION	SHEET 3 OF 3	
	Drawing No. 12599191-GHD-00-00-DRG-CI-01103	Rev

ROAD GEOMETRY ESTIMATED BASED ON EXISTING SURFACE SURVEY. 1. VERTICAL AND HORIZONTAL ALIGNMENT TO MATCH EXISTING.



Plot Date: 4 November 2024 - 4:08 PM Plotted by: Blake Drew

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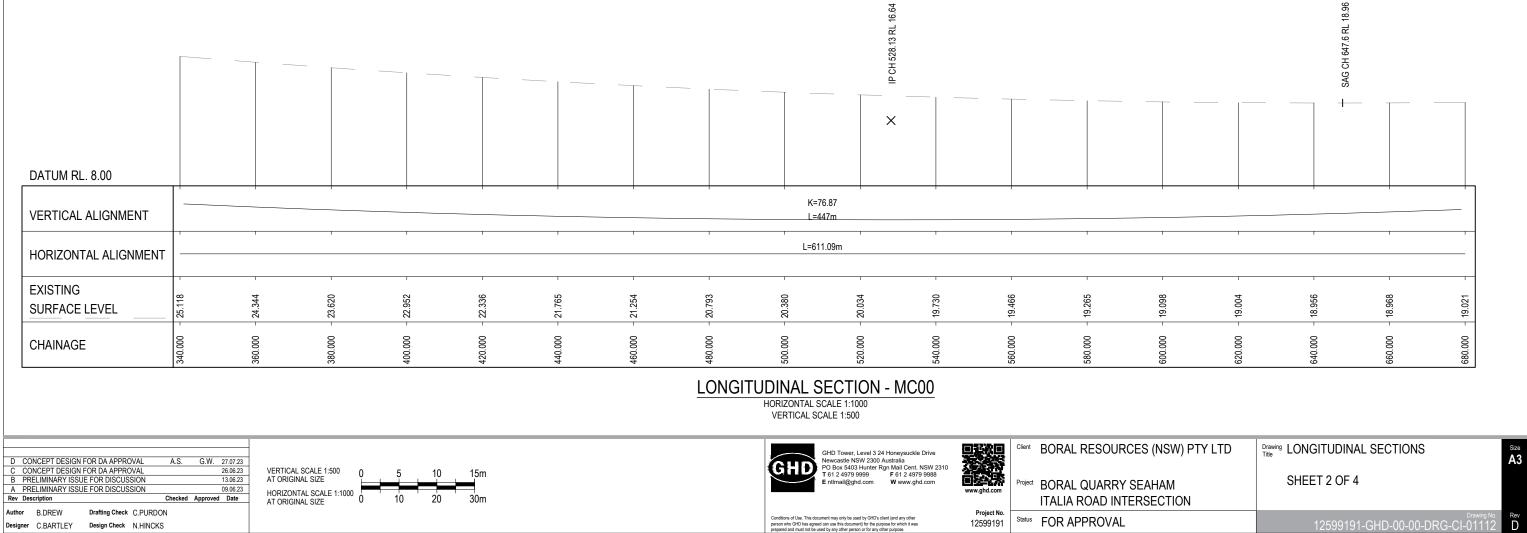
Status FOR APPROVAL

ISW) PTY LTD	Drawing LONGITUDINAL SECTIONS	Size A3
AM CTION	SHEET 1 OF 4	
	Drawing No. 12599191-GHD-00-00-DRG-CI-01111	Rev D

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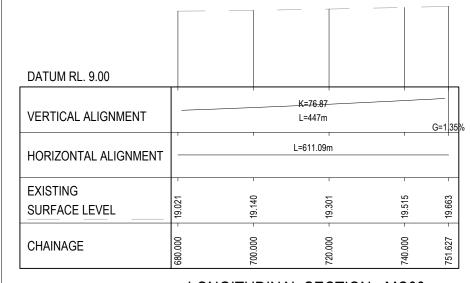
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ROAD GEOMETRY ESTIMATED BASED ON EXISTING SURFACE SURVEY. 1. VERTICAL AND HORIZONTAL ALIGNMENT TO MATCH EXISTING.



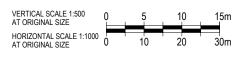
NSW) PTY LTD	Drawing LONGITUDINAL SECTIONS	Size A3
IAM CTION	SHEET 2 OF 4	
	Drawing No. 12599191-GHD-00-00-DRG-CI-01112	Rev

ROAD GEOMETRY ESTIMATED BASED ON EXISTING SURFACE SURVEY. 1. VERTICAL AND HORIZONTAL ALIGNMENT TO MATCH EXISTING.





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С	COI	NCEPT DESIGN	FOR DA APPRO	OVAL			26.06.23
В	PRE	ELIMINARY ISSU	JE FOR DISCUS	SION			13.06.23
Α	PRE	ELIMINARY ISSU	JE FOR DISCUS	SION			09.06.23
Rev	Des	cription			Checked	Approved	Date
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Autho	r	B.DREW	Drafting Check	C.PURDO		Approveu	Date
Autho Desig			Drafting Check Design Check		N	Approved	Date





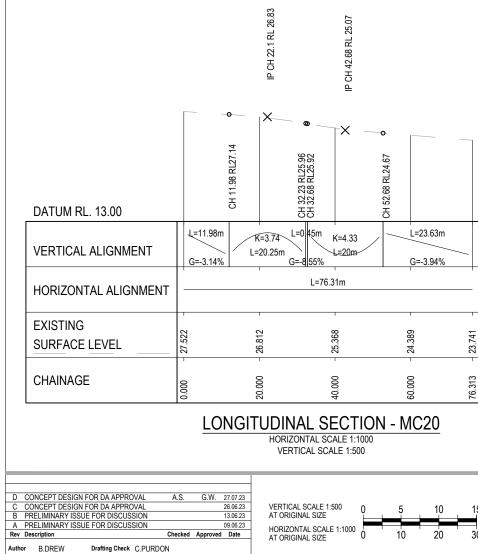
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hd.com		ITALIA ROAD INTERSEC
	Project	BORAL QUARRY SEAHA
	Client	BORAL RESOURCES (N

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12599191 Status FOR APPROVAL

ISW) PTY LTD	Drawing LONGITUDINAL SECTIONS	Size A3
AM	SHEET 3 OF 4	Αv
CTION	Drawing No. 12599191-GHD-00-00-DRG-CI-01113	Rev D

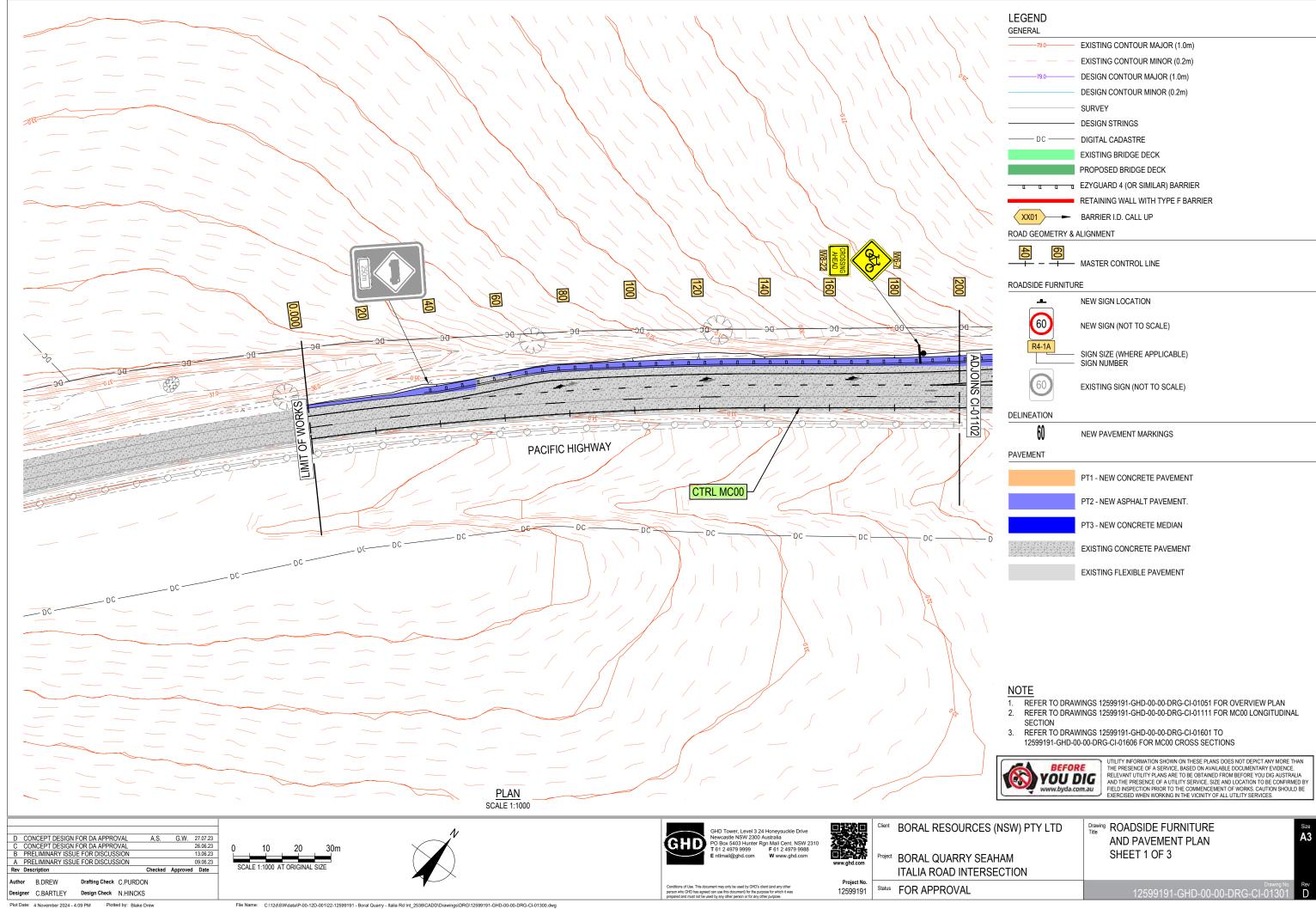
ROAD GEOMETRY ESTIMATED BASED ON EXISTING SURFACE SURVEY. 1. VERTICAL AND HORIZONTAL ALIGNMENT TO MATCH EXISTING.



Www.ghd.com Client BORAL RESOURCES (NS GHD Tower, Level 3 24 Honeysuckle Drive Newcastle NSW 2300 Australia PO Box 5403 Hunter Rgn Mail Cent. NSW 2310 T 61 2 4979 9999 F 61 2 4979 9988 E ntlmail@ghd.com W www.ghd.com GHD 15m Project BORAL QUARRY SEAHA HORIZONTAL SCALE 1:1000 AT ORIGINAL SIZE 0 10 3⁰m ITALIA ROAD INTERSEC Drafting Check C.PURDON Project No. Conditions of Use. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose. Status FOR APPROVAL Designer C.BARTLEY Design Check N.HINCKS 12599191 Plot Date: 4 November 2024 - 4:08 PM Plotted by: Blake Drew

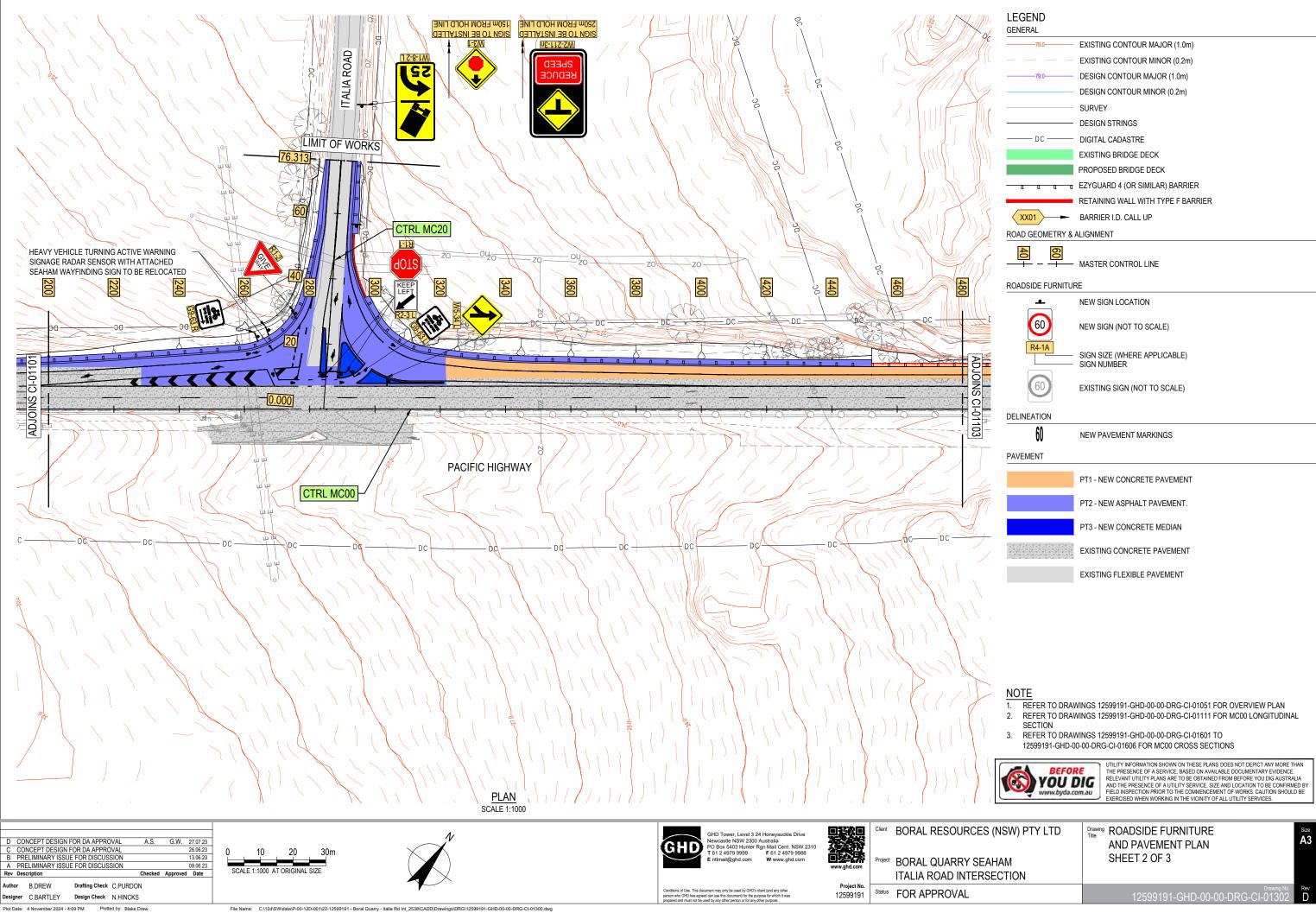
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ISW) PTY LTD	Drawing LONGITUDINAL SECTIONS	Size A3
AM CTION	SHEET 4 OF 4	
	Drawing No. 12599191-GHD-00-00-DRG-CI-01114	Rev D



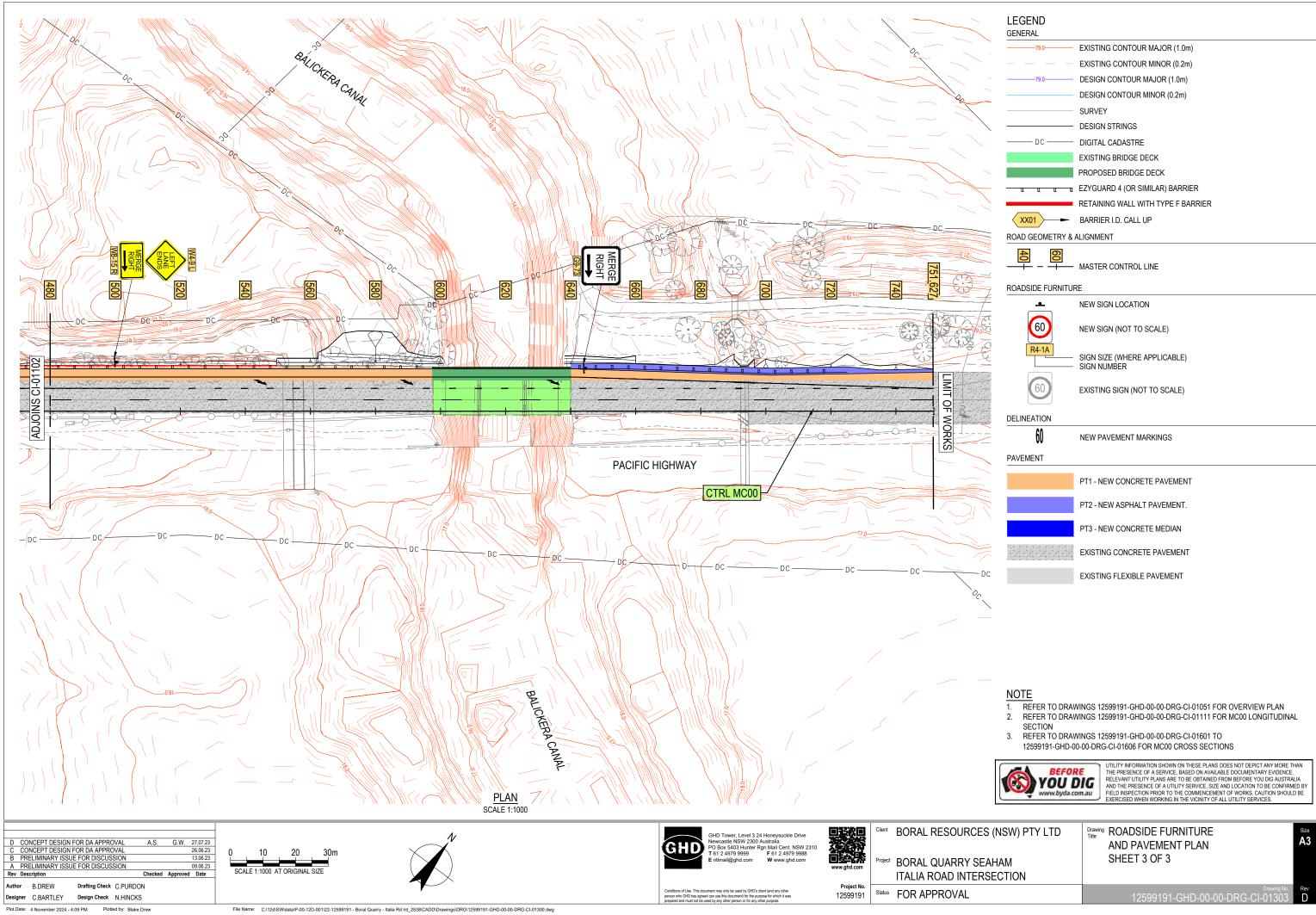
LEGEND GENERAL	
79.0	EXISTING CONTOUR MAJOR (1.0m)
	EXISTING CONTOUR MINOR (0.2m)
79.0	DESIGN CONTOUR MAJOR (1.0m)
	DESIGN CONTOUR MINOR (0.2m)
	SURVEY
	DESIGN STRINGS
DC	DIGITAL CADASTRE
	EXISTING BRIDGE DECK
	PROPOSED BRIDGE DECK
<u> </u>	EZYGUARD 4 (OR SIMILAR) BARRIER
	RETAINING WALL WITH TYPE F BARRIER
XX01	BARRIER I.D. CALL UP
ROAD GEOMETRY &	ALIGNMENT
40 + - +	MASTER CONTROL LINE
ROADSIDE FURNITUR	RE
ے	NEW SIGN LOCATION
60	NEW SIGN (NOT TO SCALE)
R4-1A	SIGN SIZE (WHERE APPLICABLE) SIGN NUMBER
60	EXISTING SIGN (NOT TO SCALE)
DELINEATION	
60	NEW PAVEMENT MARKINGS
PAVEMENT	
	PT1 - NEW CONCRETE PAVEMENT
	PT2 - NEW ASPHALT PAVEMENT.
	PT3 - NEW CONCRETE MEDIAN
	EXISTING CONCRETE PAVEMENT
	EXISTING FLEXIBLE PAVEMENT
NOTE	

SW) PTY LTD	Drawing Title ROADSIDE FURNITURE	Size
	AND PAVEMENT PLAN	A3
M	SHEET 1 OF 3	
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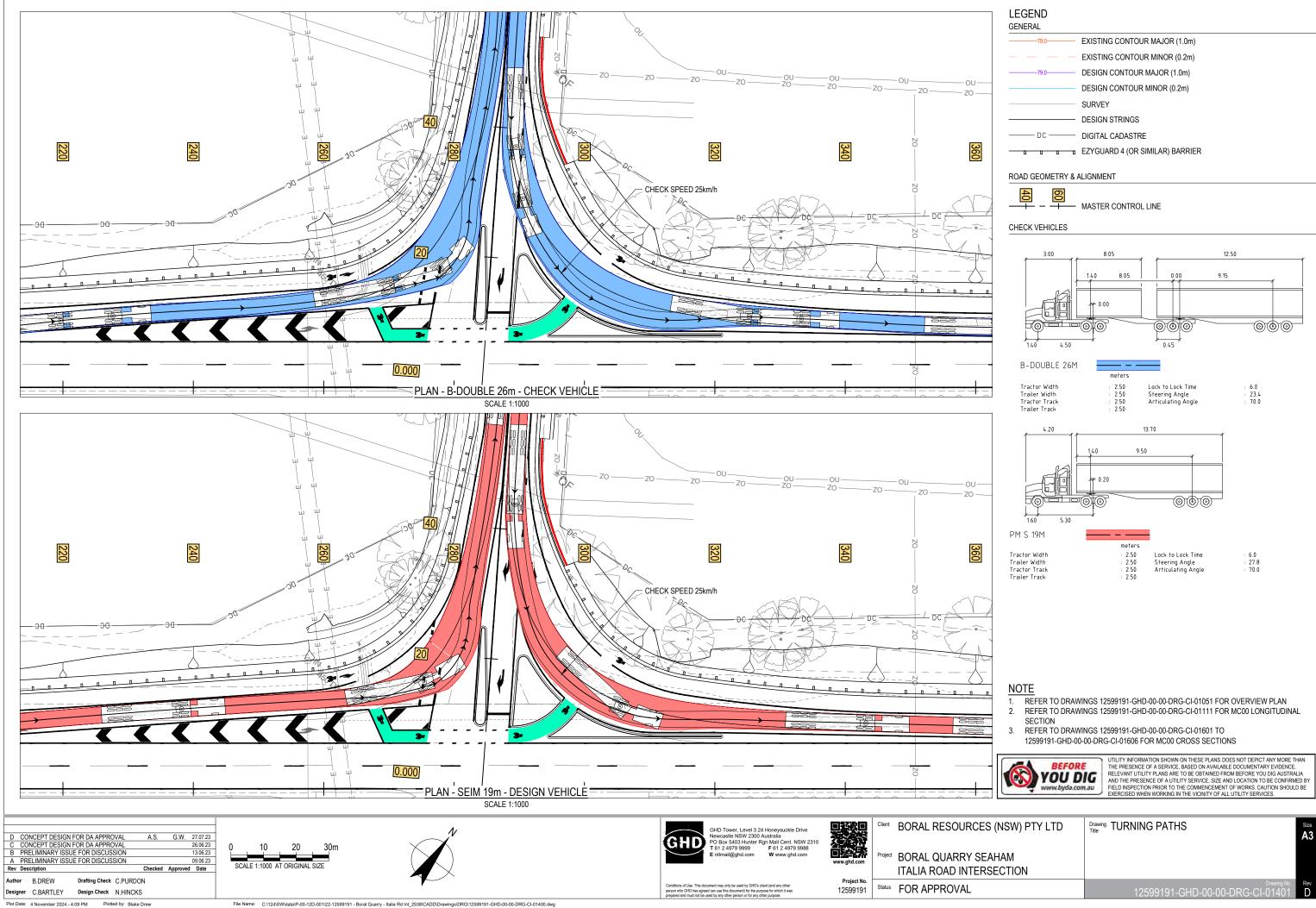
LEGEND	
GENERAL	
79.0	EXISTING CONTOUR MAJOR (1.0m)
	EXISTING CONTOUR MINOR (0.2m)
79.0	DESIGN CONTOUR MAJOR (1.0m)
	DESIGN CONTOUR MINOR (0.2m)
	SURVEY
	DESIGN STRINGS
DC	DIGITAL CADASTRE
	EXISTING BRIDGE DECK
	PROPOSED BRIDGE DECK
<u> </u>	EZYGUARD 4 (OR SIMILAR) BARRIER
	RETAINING WALL WITH TYPE F BARRIER
XX01 -	BARRIER I.D. CALL UP
ROAD GEOMETRY &	ALIGNMENT
40 + - +	MASTER CONTROL LINE
ROADSIDE FURNITUF	RE
<u> </u>	NEW SIGN LOCATION
60	NEW SIGN (NOT TO SCALE)
R4-1A	SIGN SIZE (WHERE APPLICABLE) SIGN NUMBER
60	EXISTING SIGN (NOT TO SCALE)
DELINEATION	
60	NEW PAVEMENT MARKINGS
PAVEMENT	
	PT1 - NEW CONCRETE PAVEMENT
	PT2 - NEW ASPHALT PAVEMENT.
	PT3 - NEW CONCRETE MEDIAN
	EXISTING CONCRETE PAVEMENT
	EXISTING FLEXIBLE PAVEMENT

SW) PTY LTD M TION	Drawing ROADSIDE FURNITURE AND PAVEMENT PLAN SHEET 2 OF 3	Size A3
	Drawing No. 12599191-GHD-00-00-DRG-CI-01302	Rev D



LEGEND		
GENERAL		
79.0	EXISTING CONTOUR MAJOR (1.0m)	
	EXISTING CONTOUR MINOR (0.2m)	
79.0	DESIGN CONTOUR MAJOR (1.0m)	
	DESIGN CONTOUR MINOR (0.2m)	
	SURVEY	
	DESIGN STRINGS	
DC	DIGITAL CADASTRE	
	EXISTING BRIDGE DECK	
	PROPOSED BRIDGE DECK	
<u> </u>	EZYGUARD 4 (OR SIMILAR) BARRIER	
	RETAINING WALL WITH TYPE F BARRIER	
XX01 -	BARRIER I.D. CALL UP	
ROAD GEOMETRY &	ALIGNMENT	
40		
	MASTER CONTROL LINE	
ROADSIDE FURNITURE		
.	NEW SIGN LOCATION	
60	NEW SIGN (NOT TO SCALE)	
R4-1A	SIGN SIZE (WHERE APPLICABLE) SIGN NUMBER	
60	EXISTING SIGN (NOT TO SCALE)	
DELINEATION		
60	NEW PAVEMENT MARKINGS	
PAVEMENT		
	PT1 - NEW CONCRETE PAVEMENT	
	PT2 - NEW ASPHALT PAVEMENT.	
	PT3 - NEW CONCRETE MEDIAN	
	EXISTING CONCRETE PAVEMENT	
	EXISTING FLEXIBLE PAVEMENT	

SW) PTY LTD M TION	Drawing ROADSIDE FURNITURE AND PAVEMENT PLAN SHEET 3 OF 3	Size A3
	Drawing No. 12599191-GHD-00-00-DRG-CI-01303	Rev

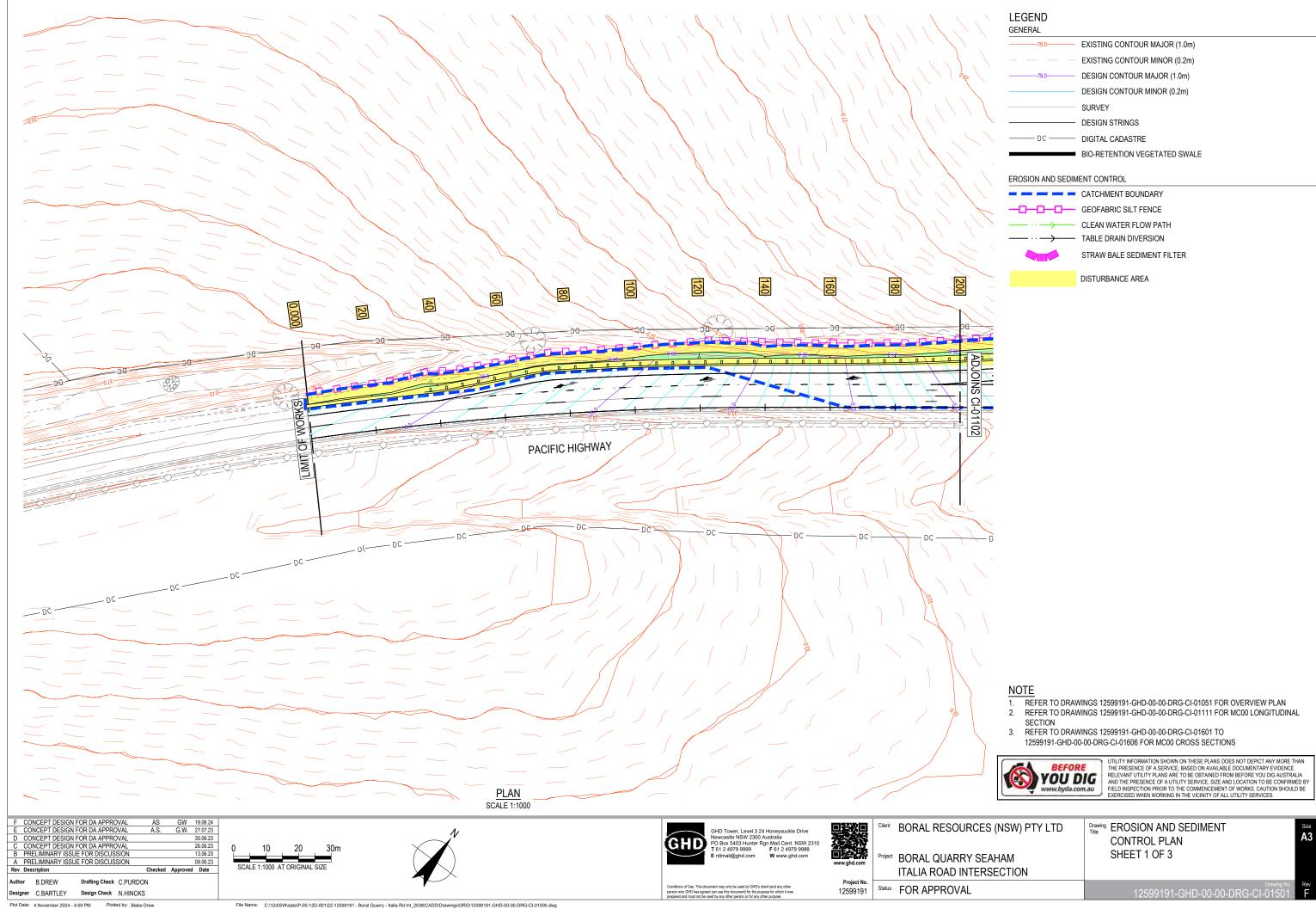


GENERAL
— — EXISTING CONTOUR MINOR (0.2m)
DESIGN CONTOUR MINOR (0.2m)
DESIGN STRINGS
DC DIGITAL CADASTRE
EZYGUARD 4 (OR SIMILAR) BARRIER



WWW.byda.com.au	UTILITY INFORMATION SHOWN ON THESE PLANS DOES NOT DEPICT ANY MORE THAN THE PRESENCE OF A SERVICE, BASED ON AVAILABLE DOCUMENTARY EVIDENCE. RELEVANT UTILITY PLANS ARET O BE OBTINNED FROM BEFORE YOU DIG AUSTRALIA AND THE PRESENCE OF A UTILITY SERVICE, SIZE AND LOCATION TO BE CONFIRMED BY FIELD INSPECTION PRIOR TO THE COMMENCEMENT OF WORKS. CAUTION SHOULD BE EXERCISED WHEN WORKING IN THE VICINITY OF ALL UTILITY SERVICES.

SW) PTY LTD		Size A3
M TION		
	Drawing No. 12599191-GHD-00-00-DRG-CI-01401	Rev D

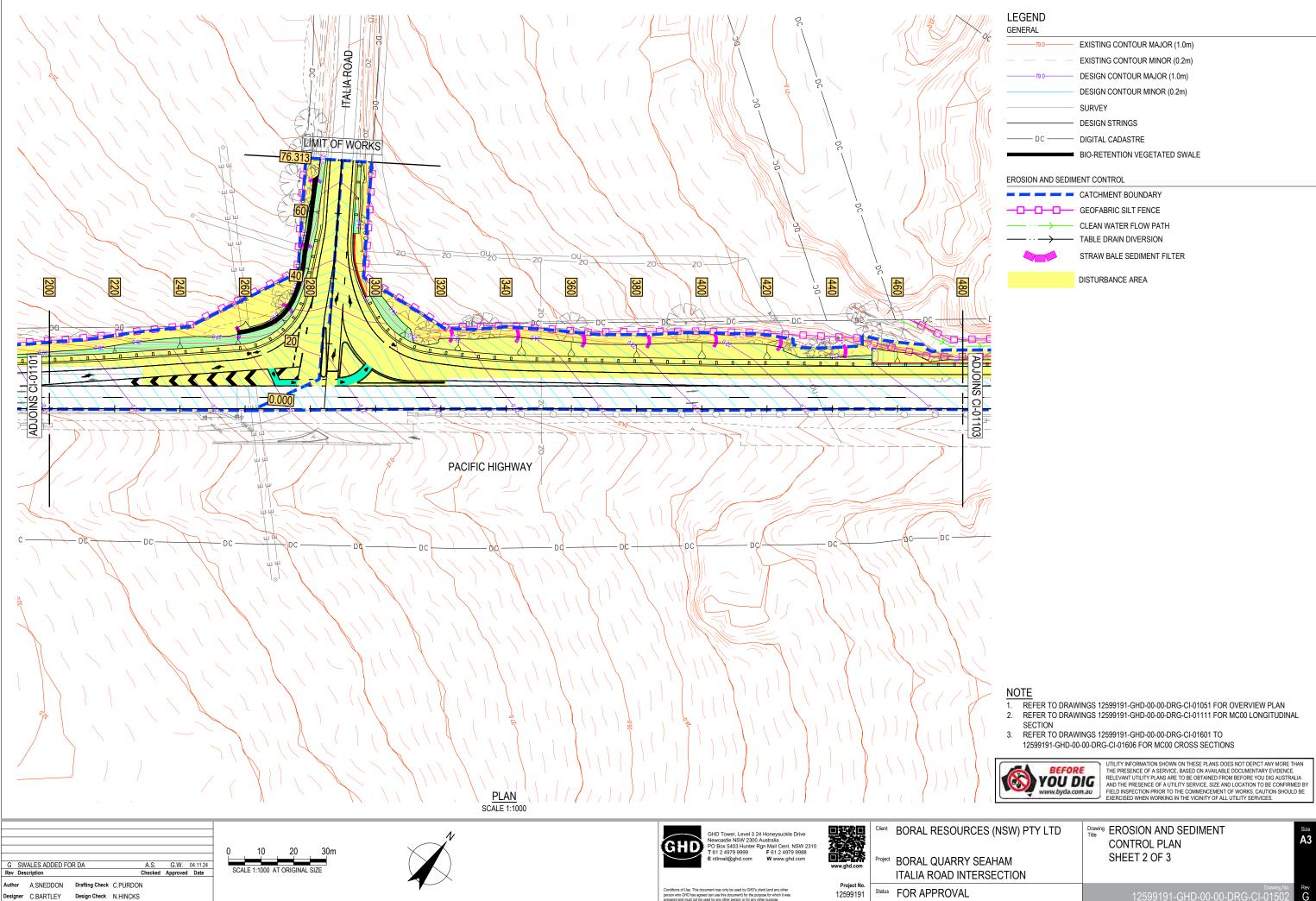


	EXISTING CONTOUR MAJOR (1.0m)
	EXISTING CONTOUR MINOR (0.2m)
79.0	DESIGN CONTOUR MAJOR (1.0m)
	DESIGN CONTOUR MINOR (0.2m)
	SURVEY
	DESIGN STRINGS
DC	DIGITAL CADASTRE
	BIO-RETENTION VEGETATED SWALE

	CATCHM
-0-0-0-	GEOFABF
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ISW) PTY LTD Am CTION	Drawing Title CONTROL PLAN SHEET 1 OF 3	Size A3
	Drawing No. 12599191-GHD-00-00-DRG-CI-01501	Rev F



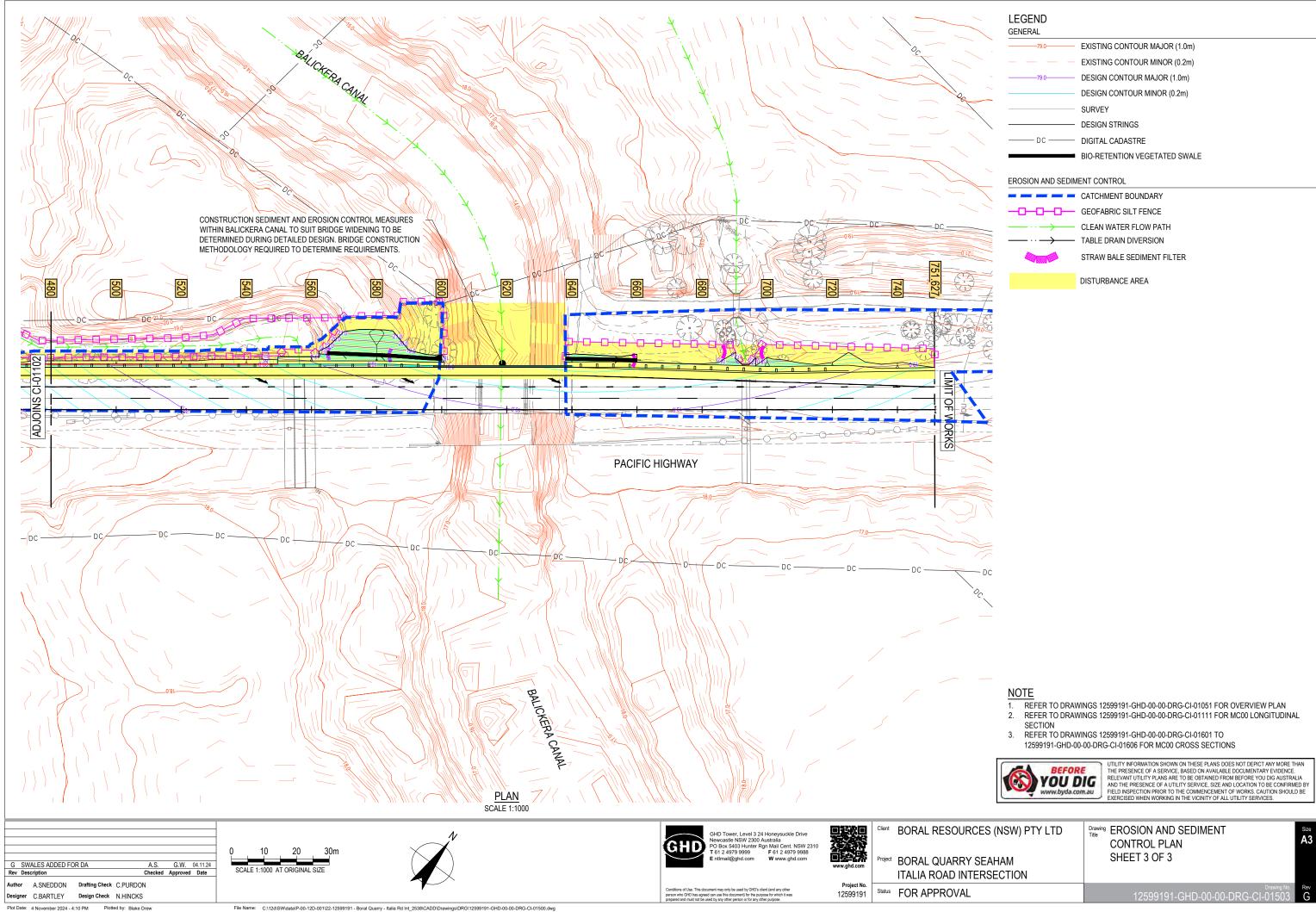
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	EXISTING CONTOUR MINOR (0.2m)
79.0	DESIGN CONTOUR MAJOR (1.0m)
	DESIGN CONTOUR MINOR (0.2m)
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	DESIGN STRINGS
DC	DIGITAL CADASTRE
	BIO-RETENTION VEGETATED SWALE

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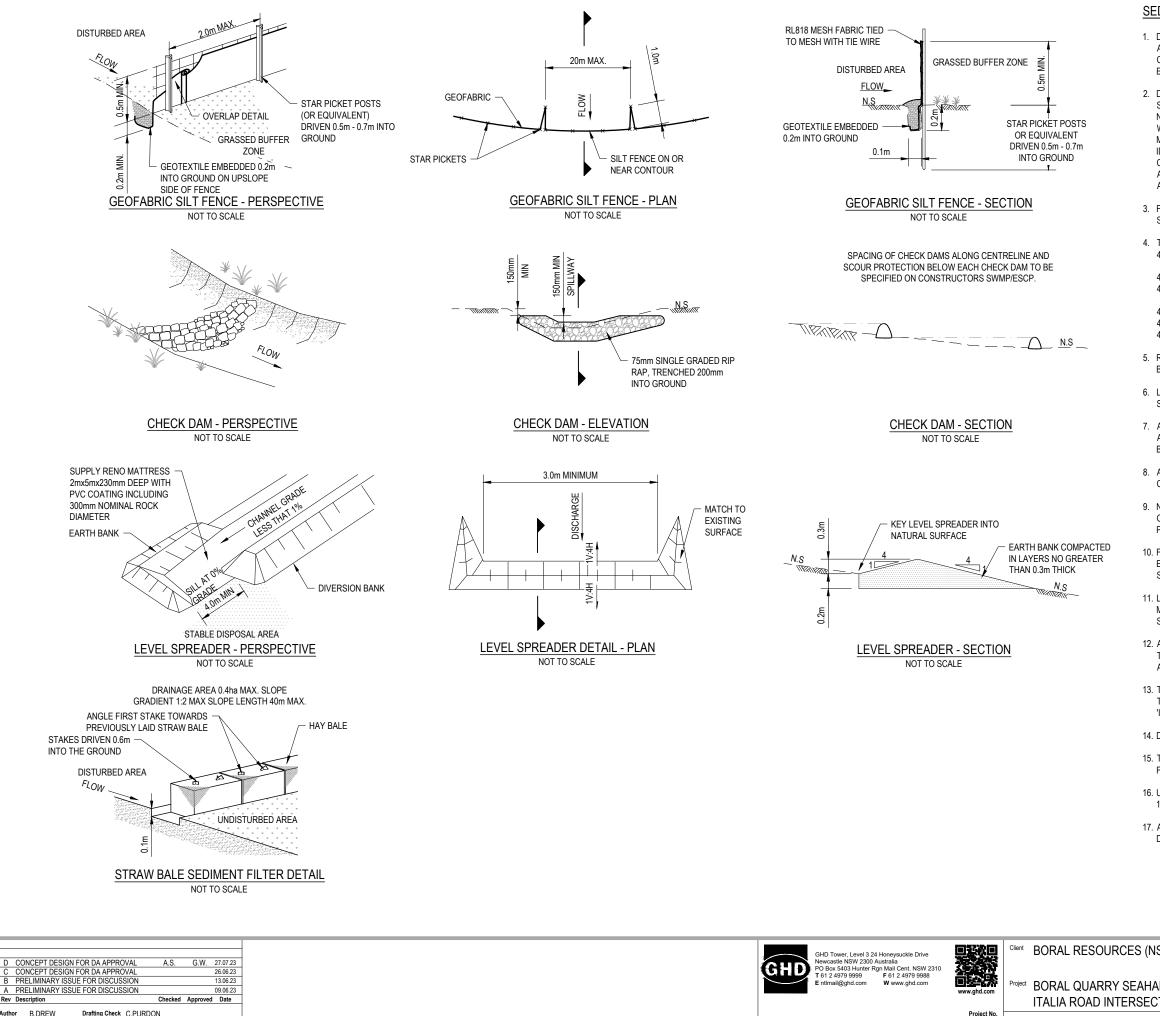
ISW) PTY LTD Am CTION	Drawing Title CONTROL PLAN SHEET 2 OF 3	Size A3
	Drawing No. 12599191-GHD-00-00-DRG-CI-01502	Rev



79.0	EXISTING CONTOUR MAJOR (1.0m)
	EXISTING CONTOUR MINOR (0.2m)
79.0	DESIGN CONTOUR MAJOR (1.0m)
	DESIGN CONTOUR MINOR (0.2m)
	SURVEY
	DESIGN STRINGS
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ISW) PTY LTD AM CTION	Drawing Title CONTROL PLAN SHEET 3 OF 3	Size A3
	Drawing No. 12599191-GHD-00-00-DRG-CI-01503	Rev



Designer C.BARTLEY

Design Check N.HINCKS

Plot Date: 4 November 2024 - 4:10 PM Plotted by: Blake Dre

12599191

SEDIMENT AND EROSION CONTROL NOTES:

1. DRAWINGS ARE ISSUED AS EXAMPLE ONLY. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE 'BLUE BOOK', SOILS AND CONSTRUCTION LANDCOM 2004 VOLUME 1 AND DEC VOLUME 2D AND OTHER ENVIRONMENTAL PRACTICES.

2. DETAILS ON THESE PRELIMINARY EROSION AND SEDIMENT CONTROL PLANS (ESCP) ARE SCHEMATIC ONLY. ADDITIONAL CONTROLS AND CHANGES TO THIS PLAN WILL BE NECESSARY DURING THE PROCESS OF IMPLEMENTATION OF THE ESCP. IN CONJUNCTION WITH THE CONSTRUCTION STAGING PLANS AND SPECIFIC ON SITE CONSTRUCTION METHODOLOGY THE CONTRACTOR SHALL PREPARE PROGRESSIVE ESCP. THE ESCP IDENTIFY THE EROSION AND SEDIMENT CONTROLS NEEDED ON SITE, BUT ARE NOT CONSTRUCTION DRAWINGS AND ARE ISSUED FOR INFORMATION ONLY. ALTERNATIVE APPROVED PRIMARY EROSION SEDIMENT CONTROLS CAN BE USED TO SUIT THE METHOD AND SEQUENCE OF CONSTRUCTION.

3. FOR ADDITIONAL EROSION AND SEDIMENT CONTROL DETAILS REFER TO THE BLUE BOOK STANDARD DRAWINGS AS NOMINATED

- 4. THE SEQUENCE OF CONSTRUCTION SHALL BE AS FOLLOWS
- 4.1. IDENTIFY LOCATION OF ALL YOUR NEW EROSION AND SEDIMENT CONTROL MEASURES.
- 4.2. INSTALLATION OF BARRIER AND SEDIMENT FENCES.
- 4.3. INSTALLATION OF TEMPORARY SEDIMENT BASIN AND ENERGY DISSIPATER AT OUTLET WITH SEDIMENT FENCES AT DOWN SLOPE.
- 4.4. INSTALLATION OF ALL DIVERSION DRAINS AND LEVEL SPREADERS.
- 4.5. INSTALLATION OF ALL REMAINING EROSION AND SEDIMENT CONTROLS.
- 4.6. CLEARING AND REGRADING OF SITE FOR CONSTRUCTION.

5. REFER TO THE TFNSW TYPICAL DRAWINGS R0100-01 TO R0100-12 AND THE 2008 'BLUE BOOK' TYPICAL DETAILS SD 4-1 TO SD 6-15.

6. LOCATION OF TOPSOIL STOCKPILES TO BE DETERMINED BY THE CONTRACTOR AND STABILISED IN ACCORDANCE WITH SD4.1 AND SD6.8.

7. AFTER REGRADING THE SITE, SEDIMENT FENCES SHALL BE LAID ALONG THE CONTOURS AT INTERVALS NOT EXCEEDING 80m. THIS INTERVAL SHALL BE REDUCED TO 20m ON BATTERS STEEPER THAN H.V=4.1.

8. ALL DISTURBED AND REGRADED AREAS SHALL BE REHABILITATED WITHIN 20 DAYS POST CONSTRUCTION IN ACCORDANCE WITH REQUIREMENTS OF THE BLUE BOOK.

 NEW OR EXISTING INFRASTRUCTURE USED TO CONVEY SITE RUNOFF DURING CONSTRUCTION SHALL BE FLUSHED CLEAN OF SEDIMENT AT COMPLETION OF THE PROJECT.

10. FIELD INSPECTIONS ARE TO BE UNDERTAKEN FOR ALL OPEN TRENCHES ON SITE TO ENSURE THAT ADEQUATE PROTECTION AGAINST EROSION IS PROVIDED AND THAT SAFETY MEASURES ARE ALSO PROVIDED IN PLACE AT THE END OF EACH DAY.

11. LOCATION OF ALL SERVICES TO BE CONFIRMED PRIOR TO COMMENCING WORK AND MANAGE THE COORDINATION OF TEMPORARY DRAINAGE AND OTHER EROSION AND SEDIMENT CONTROLS WITH THE EXISTING AND NEW UTILITIES.

12. ANY WORKS TO INSTALL UTILITIES OUTSIDE OF THE CONSTRUCTION AREAS SHOWN ON THESE PLANS ARE TO IMPLEMENT LOCAL EROSION AND SEDIMENT CONTROLS TO ENSURE ADEQUATE PROTECTION.

13. THE PROVISION OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THE INSTALLATION OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH VOLUME 2A 'INSTALLATION OF SERVICES" OF THE BLUE BOOK.

14. DIVERSION DRAINS MUST BE FULLY OPERATIONAL PRIOR TO ANY DISTURBANCE ON SITE.

15. TEMPORARY DIVERSION DRAINS SHOULD BE CONSTRUCTED TO AVOID TREES AND FENCES.

16. USE WOVEN POLYPROPYLENE AND COTTON/GEOTEXTILE THREAD WITH A FLOW RATE OF 15 L/s/m² TO AUSTRALIAN STANDARD AS 3706.9 WHEN INSTALLING SEDIMENT FENCES.

17. ALL BARRIER FENCES (PARAWEBBING) ARE TO BE INSTALLED TO AVOID SOIL DISTURBANCE OUTSIDE THE CONSTRUCTION AREA.

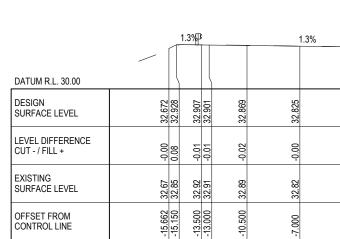
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	Dr	rawing No.	Rev

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C	CH 0				CH 6	60					CI
DVAL 26.06.23 SION 13.06.23							GHD	GHD Tower, Level 3 24 Honeysuckle Drive Newcastle NSW 2300 Australia PO Box 5403 Hunter Rgn Mail Cent. NSW 2310 T 61 2 4979 9999 E ntlmail@ghd.com W www.ghd.com	Www.ghd.com	Project	BORAL RI BORAL Q ITALIA RC
							person who GHD has agr		Project No. 12599191	Status	FOR APP
	DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 SION 13.0623 SION 13.0623 SION 09.06.23	DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 0 2.5 SION 13.06.23 SCALE 1:25 SCALE 1:25 C.PURDON Checked Approved Date C.PURDON C.PURDON C.PURDON	DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 0 2.5 5.0 SION 09.06.23 0 2.5 5.0 SION 09.06.23 SCALE 1:250 AT ORIGINAL SIZE Checked Approved Date C.PURDON Checked Approved Date Checked Approved Approved Approved	DVAL A.S. G.W. 27/07/23 DVAL 26.06/23 0 2.5 5.0 7.5m SION 09.06/23 0 2.5 5.0 7.5m SION 09.06/23 0 2.5 5.0 7.5m SION 09.06/23 0 2.5 AT ORIGINAL SIZE C.PURDON 0 </td <td>DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 0 2.5 5.0 7.5m SION 03.06.23 0 2.5 5.0 7.5m SION 03.06.23 0 2.5 5.0 7.5m SION 03.06.23 0 2.5 5.0 7.5m SCALE 1:250 AT ORIGINAL SIZE SCALE 1:250 AT ORIGINAL SIZE SCALE 1:250 AT ORIGINAL SIZE</td> <td>CH 0 CH 6 DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 SION 13.06.23 SION 09.06.23 Checked Approved Date SCALE 1:250 AT ORIGINAL SIZE</td> <td>CH 0 CH 60 DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 SION 13.06.23 SION 09.06.23 Checked Approved Date SCALE 1:250 AT ORIGINAL SIZE</td> <td>CH 0 CH 60 DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 0 2.5 5.0 7.5m SION 13.06.23 0 2.5 5.0 7.5m SION 13.06.23 SCALE 1.250 AT ORIGINAL SIZE Celesced Approved Date Celesc</td> <td>CH 0 CH 60 CH 60 CH</td> <td>CH 0 CH 0 CH 60 CH 7.5m SCALE 1:250 AT ORIGINAL SIZE C.PURDON NUMCES</td> <td>CH 0 CH 60 DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 SION GW. 27.07.23 SION F 61 2 4979 9988 SION F 61 2 4979 9988 SION</td>	DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 0 2.5 5.0 7.5m SION 03.06.23 0 2.5 5.0 7.5m SION 03.06.23 0 2.5 5.0 7.5m SION 03.06.23 0 2.5 5.0 7.5m SCALE 1:250 AT ORIGINAL SIZE SCALE 1:250 AT ORIGINAL SIZE SCALE 1:250 AT ORIGINAL SIZE	CH 0 CH 6 DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 SION 13.06.23 SION 09.06.23 Checked Approved Date SCALE 1:250 AT ORIGINAL SIZE	CH 0 CH 60 DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 SION 13.06.23 SION 09.06.23 Checked Approved Date SCALE 1:250 AT ORIGINAL SIZE	CH 0 CH 60 DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 0 2.5 5.0 7.5m SION 13.06.23 0 2.5 5.0 7.5m SION 13.06.23 SCALE 1.250 AT ORIGINAL SIZE Celesced Approved Date Celesc	CH 0 CH 60 CH	CH 0 CH 0 CH 60 CH 7.5m SCALE 1:250 AT ORIGINAL SIZE C.PURDON NUMCES	CH 0 CH 60 DVAL A.S. G.W. 27.07.23 DVAL 26.06.23 SION GW. 27.07.23 SION F 61 2 4979 9988 SION F 61 2 4979 9988 SION

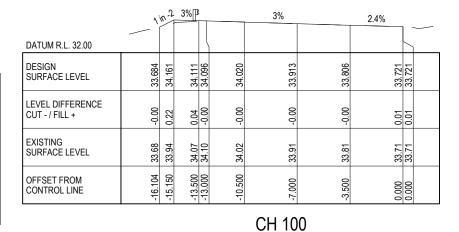
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DESIGN SURFACE LEVEL	<u>35.641</u> 35.641 35.659	35.580	35.469	<u>35.361</u> 35.361	DESIGN SURFACE LEVEL	34.903 34.913 34.865	34.851 34.780	34.723	34.622	<u>34.521</u> 34.521	DESIGN SURFACE LEVEL	32.664	33.612	33.571 33.558	33.495	33.407	33.319	<u>33.250</u> 33.250	
LEVEL DIFFERENCE CUT - / FILL +	0.00 0.00 0.00	0.00	0.00	-0.00	LEVEL DIFFERENCE CUT - / FILL +	-0.00 0.01 -0.02	-0.02 -0.02	-0.00	-0.00	0.00	LEVEL DIFFERENCE CUT - / FILL +	-0.00	0.30	-0.01 -0.01	-0.01	-0.00	-0.00	0.02 0.02	
EXISTING SURFACE LEVEL	35.64 35.64 35.65	35.58	35.47	35.36 35.36	EXISTING SURFACE LEVEL	34.90 34.90 34.89	34.87 34.80	34.72	34.62	34.52 34.52	EXISTING SURFACE LEVEL	32.66	33.31	33.59 33.57	33.51	33.41	33.32	<u>33.23</u> 33.23	
OFFSET FROM CONTROL LINE	-10.500 -10.500 -9.500	-7.000	-3.500	00000	OFFSET FROM CONTROL LINE	-13.671 -13.643 -11.993	-11.493 -8.993	-7.000	-3.500	00000	OFFSET FROM CONTROL LINE	-17.047	-15.150	-13.500 -13.000	-10.500	000.7-	-3.500	00000	
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-	heck C.PURDON eck N.HINCKS									person who GHD has ap	document may only be used by GHD's client (and any other greed can use this document) for the purpose for which it was be used by any other person or for any other purpose.		Project No. 2599191	Status F	OR APF	PROVAL			

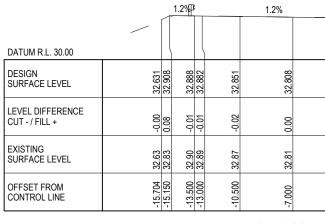
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DATUM R.L. 34.00						\sum
DESIGN SURFACE LEVEL	35.383 35.463	35.430	35.349	35.236	35.128	35.128
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EXISTING SURFACE LEVEL	35.38 35.40	35.43	35.35	35.24	35.13	35.13
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EXISTING SURFACE LEVEL	34.48 34.50	34.53 34.54	34.46	34.34	34.24	34.13	34.13
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CH 141

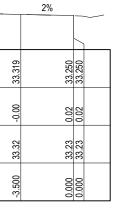
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SHEET 1 OF 6

Drawing CROSS SECTIONS

Size A3



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DESIGN SURFACE LEVEL	29.867	30.548	30.591	30.604	30.669		30.771	30.784	30.875	30.962	30.962
LEVEL DIFFERENCE CUT - / FILL +	-0.00	0.28	0.03	0.01	-0.01		-0.00	00.0	0.00	00 0-	00.0-
EXISTING SURFACE LEVEL	29.87	30.26	30.56	30.59	30.68		30.77	30.78	30.88	30.96	30.96
OFFSET FROM CONTROL LINE	-17.387	-16.027	-14.377	-13.877	-11.377		-7.477	-7.000	-3.500	000 0	000.0

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30.978 31.364

-0.00

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DATUM R.L. 29.00

DESIGN SURFACE LEVEL

LEVEL DIFFERENCE CUT - / FILL +

SURFACE LEVEL

OFFSET FROM

CONTROL LINE

Plot Date: 4 November 2024 - 4:10 PM Plotted by: Blake Drew

EXISTING

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DESIGN SURFACE LEVEL	26.267	26.324	26.346	27.961	28.029	28.048	28.143		28.394	28.502	28 601	28.601
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.16	-0.28	0.87	0.56	0.46	60.0		00.0	0.00	100	0.01
EXISTING SURFACE LEVEL	26.27	26.49	26.62	27.09	27.47	27.59	28.06		28.39	28.50	08 FQ	28.59
OFFSET FROM CONTROL LINE	-26.672	-24.284	-23.066	-19.884	~ ~ ~	-17.719	-15.247		-7.000	-3.500		0.000

CH 260

CH 200

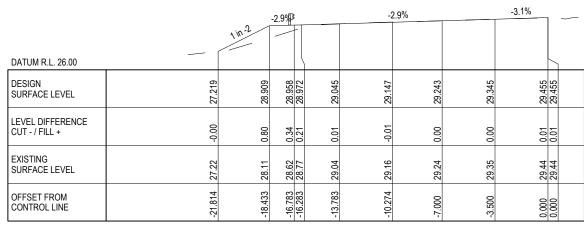
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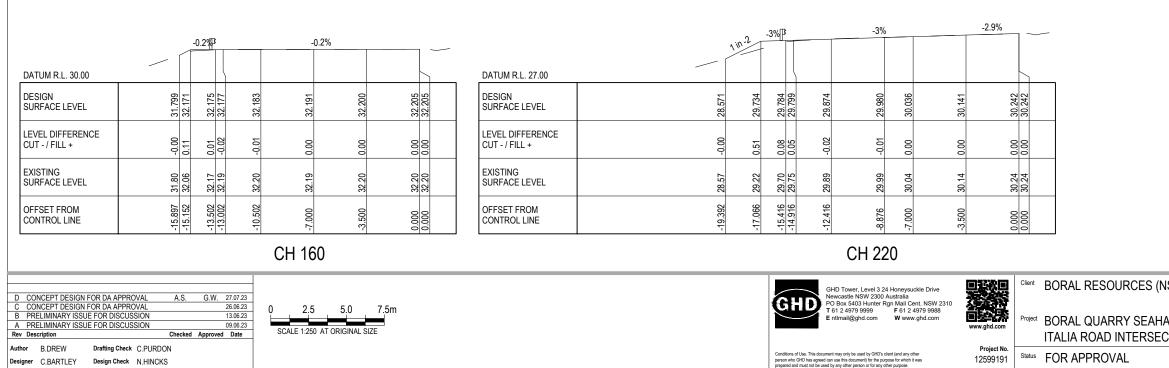
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CH 180



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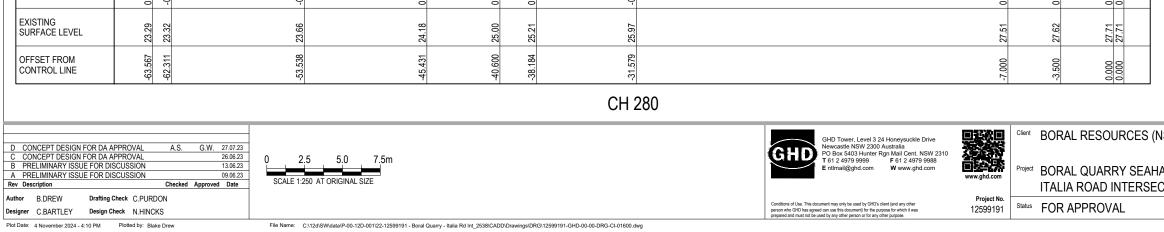
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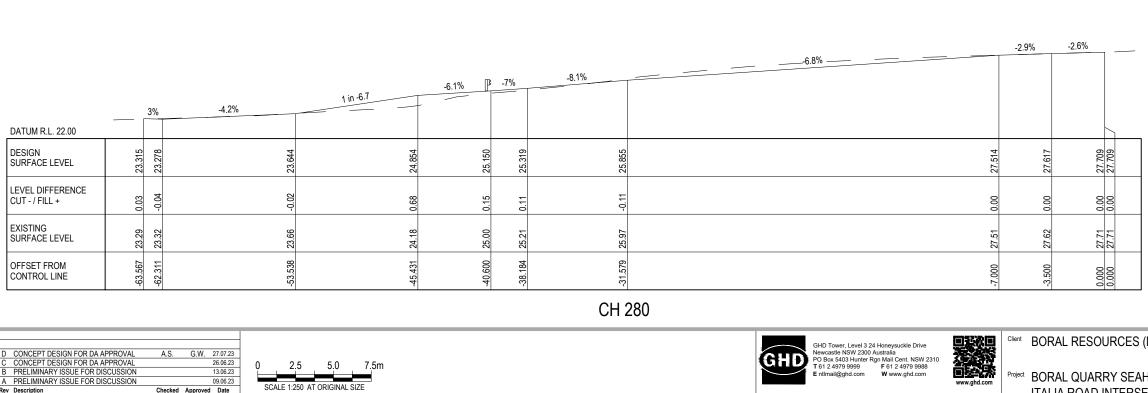
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AM CTION	SHEET 2 OF 6	
	Drawing No. 12599191-GHD-00-00-DRG-CI-01602	Rev D

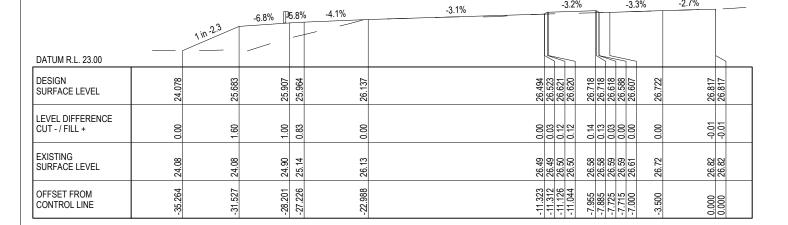




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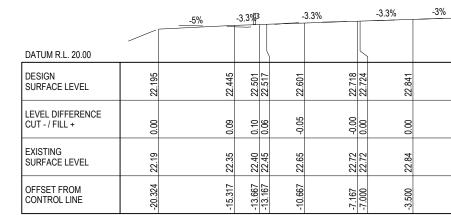


ISW) PTY LTD	Drawing Title CROSS SECTIONS	Size A3
AM CTION	SHEET 3 OF 6	
	Drawing No. 12599191-GHD-00-00-DRG-CI-01603	Rev D

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DATUM R.L. 23.00										DATUM R.L. 21.00								6		DATUM R.L. 19.00							
DESIGN SURFACE LEVEL	25.223	25.405	25.446 25.458	25.520		25.682 25.692 25.722 25.822 25.822	25.841 25.841 25.741 25.711	25.734 25.844 25.940	25.940	DESIGN SURFACE LEVEL	22.950	23.152	23.201 23.216	23.291	23.395	23.411 23.411	010.02	23.617 23.617		DESIGN SURFACE LEVEL	21.049	21.321	21.3/1 21.386	21.460	21.565	21.669	21.763 21.763
LEVEL DIFFERENCE CUT - / FILL +	00.0	0.16	0.18 0.17	0.02		-0.01 -0.01 0.02 0.12	0.13 0.13 0.02 -0.01	0.00	-0.01	LEVEL DIFFERENCE CUT - / FILL +	0.00	0.14	0.18 0.15	-0.01	00.0-	00.0	00.0	-0.00		LEVEL DIFFERENCE CUT - / FILL +	0.00	0.29	0.18	0.05	0.00	00.0	00.00
EXISTING SURFACE LEVEL	25.22	25.25	25.27 25.29	25.50		25.69 25.70 25.70 25.70 25.70	25.71 25.71 25.72 25.72	25.73 25.84 25.95	25.95	EXISTING SURFACE LEVEL	22.95	23.01	23.02 23.07	23.30		23.41	70.02	23.62 23.62		EXISTING SURFACE LEVEL	21.05	21.04	21.19 21.23	21.41	21.56	21.67	21.77 21.77
OFFSET FROM CONTROL LINE	-21.435	-18.431	-16.766 -16.261	-13.739		-8.617 -8.317 -8.307 -8.147 8.077	-7.957 -7.987 -7.887 -7.727 -7.717	-7.000 -3.500 0.000	0.000	OFFSET FROM CONTROL LINE	-19.713	-15.684	-14.034 -13.534	-11.034	-7.534	-7.000	0000.0-	0.000		OFFSET FROM CONTROL LINE	-15.695	-15.150	-13.500 -13.000	-10.500	000.7-	-3.500	0.000
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E BARRIER SYSTEM AMENDED D CONCEPT DESIGN FOR DA A		<u>G. G.W.</u> G. G.W.													GHD Tower, Level 3 Newcastle NSW 23	3 24 Honeysuckle Driv 00 Australia		Clie	^{nt} B(ORAL RESOURCES	S (NSW) PTY L	LTD	Drawir Title	^{ng} CR	OSS SECTI	ONS	
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-	Check C.PURDON Check N.HINCKS												person wh	o GHD has agreed o	ent may only be used by GHI an use this document) for the I by any other person or for a	purpose for which it was		oject No. 599191 ^{Stat}		OR APPROVAL					12599191	-GHD-00-0	Drawing No. DRG-CI-01604
Plot Date: 4 November 2024 - 4:10 PM	Plotted by: Blake Drew			File Nam	e: C:\12d\SW\data\F	-00-12D-001\22-125	99191 - Boral Quar	y - Italia Rd Int_253	8\CADD\Drawings\DF	RG\12599191-GHD-00-00-DRG-CI-01600.dwg	g																



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DATUM R.L. 22.00			-							
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LEVEL DIFFERENCE CUT - / FILL +	00:0-	0.22	0.29	0.26	0.11	0.00	0.00	0.0	00.0-	-00.0
EXISTING SURFACE LEVEL	24.27	24.40	24.37	24.42	24.64	24.86	24.90	25.01	25.12	25.12
OFFSET FROM CONTROL LINE	-22.092	-16.560	-14.908	-14.407	-11.904	-8.267	-7.000	-3.500	0.000	0.000



CH 400

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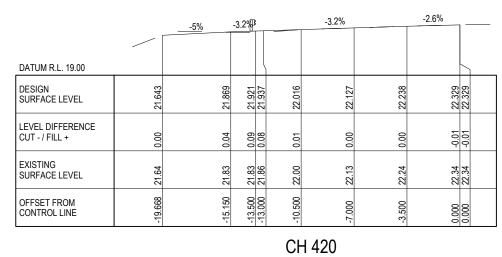
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DATUM R.L. 17.00	0%			
DESIGN SURFACE LEVEL	19.542 19.542	19.542 20.817 20.817 20.817	20.848 20.929 21.042	21.155 21.249 21.249
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.65 0.62 0.62 0.61	0.45 0.02 0.00	0.00 -0.01 -0.01
EXISTING SURFACE LEVEL	19.54 19.54	20.20 20.20 20.20 20.20	20.40 20.91 21.04	21.16 21.25 21.25
OFFSET FROM CONTROL LINE	-17.396 -17.396	-14.015 -14.005 -13.995 -13.985	-13.000 -10.500 -7.000	-3.500 0.000 0.000



		-5%	-3%₿		-3%			-2.8%	
					-				
DATUM R.L. 21.00									5
DESIGN SURFACE LEVEL	23.638	23.863	23.913 23.928	24.003	24.109	24.136	24.241	24.340	24.340
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.03	0.10	0.09	0.00	0.00	0.00	-0.00	-0.00
EXISTING SURFACE LEVEL	23.64	23.84	23.81 23.81	23.91	24.11	24.14	24.24	24.34	24.34
OFFSET FROM CONTROL LINE	-20.545	-16.050	-14.400	-11.400	-7.900	-7.000	-3.500	000.0	0.000



Size

SURFACE LEVEL	19.76 19.77 19.77	20.08 20.43 20.58	20.68	20.75	SURFACE LEVEL	18.56 18.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99	<u>19.65</u> 19.81	19.92	20.03	SURFACE LEVEL		
OFFSET FROM CONTROL LINE	-15.015 -15.015 -14.015 -14.005 -13.395 -13.395	-13.000 -10.500 -7.000	-3.500	0.000	OFFSET FROM CONTROL LINE	-15.015 -15.015 -14.015 -14.005 -13.995 -13.985	-13.000 -10.500 -7.000	-3.500	0.000	OFFSET FROM CONTROL LINE		
		CH 480					CH 520					
E BARRIER SYSTEM AMENDED D CONCEPT DESIGN FOR DA AI C CONCEPT DESIGN FOR DA AI B PRELIMINARY ISSUE FOR DIS A PRELIMINARY ISSUE FOR DIS Rev Description	APPROVAL A.S. G.W. 27.0 APPROVAL 26.0 26.0 30.0	7.23 6.23 6.23 6.23 6.23 6.23 0 2.	5 5.0	7.5m					SHD Newcast PO Box 9 T 61 2 4	wer, Level 3 24 Honeysuckle Drive le NSW 2300 Australia 5403 Hunter Mail Cent. NSW 2310 979 9999 F 61 2 4979 9988 @ghd.com W www.ghd.com	Www.ghd.com	Client BORAL RESO
Author B.DREW Drafting C	Check C.PURDON Sheck N.HINCKS							pers		y be used by GHD's client (and any other document) for the purpose for which it was	Project No. 12599191	Status FOR APPROV

-2.8%

20.280

0.00

20.28

-3.500

20.377 20.377

-0.00

20.38 20.38

0.000

-3.1%

19.982 20.060 20.170

0.37 0.02 0.00

-13.000 19.61 -10.500 20.04 -7.000 20.17

0%

18.807 18.807 18.807 19.951 19.951 19.952

0.00 0.00 0.59 0.59 0.59

 -15.015
 18.81

 -15.015
 18.81

 -14.015
 19.35

 -14.005
 19.36

 -13.995
 19.36

 -13.985
 19.36

DATUM R.L. 16.00

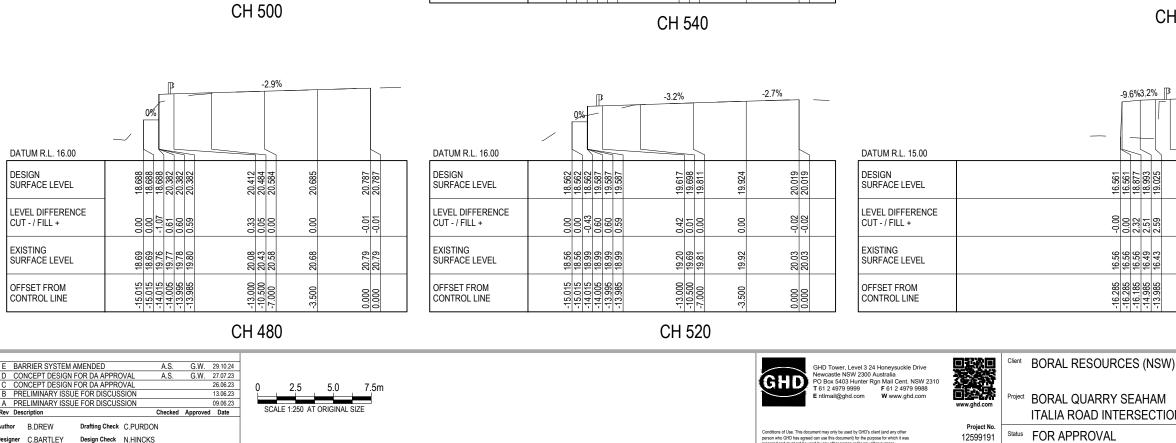
DESIGN SURFACE LEVEL

LEVEL DIFFERENCE

CUT - / FILL +

EXISTING SURFACE LEVEL

OFFSET FROM CONTROL LINE



-2.8%

19.713 19.713

-0.02 -0.02

19.73 19.73

0.000

19.616

0.00

19.62

-3.500

DATUM R.L. 17.00

SURFACE LEVEL

CUT - / FILL +

SURFACE LEVEL

OFFSET FROM

CONTROL LINE

EXISTING

LEVEL DIFFERENCE

DESIGN

-3%

19.330 19.405 19.510

0.20 0.01 0.00

-13.000 19.13 -10.500 19.39 -7.000 19.51

ß

0%

18.308 18.309 18.309 19.300 19.300 19.300

0.00 0.00 0.28 0.28 0.28

-15.383 18.31 -15.383 18.31 -14.015 19.02 -14.005 19.02 -13.995 19.02 -13.385 19.02

DATUM R.L. 15.00

DESIGN SURFACE LEVEL

LEVEL DIFFERENCE CUT - / FILL +

SURFACE LEVEL

OFFSET FROM CONTROL LINE

EXISTING

M	
TION	

SHEET 5 OF 6

OURCES (NSW) PTY LTD

Drawing CROSS SECTIONS

Size A3

CH 560

6 🖪	-3.29	%	-2	.8%
19.025	19.055 19.136	19.248	19.361	19.459 19.459
2.59	0.10 0.02	0.00	0.00	-0.01 -0.01
16.43	18.96 19.12	19.25	19.36	19.47 19.47
-13.985	-13.000 -10.500	-7.000	-3.500	0.000

CH 580

1 in 2

21.814

0.00

21.81

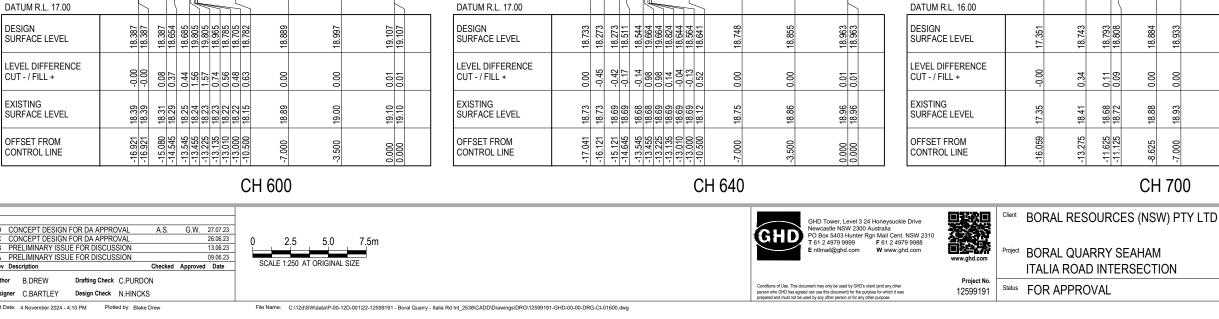
-24.583

<		<u>م</u>	-3%	P		-3%		-2.8%	1	
	0%\	in-2								L
18.162	18.162	18.810	18.841	18.871	18.947	19.054	19.160	19.257	19.257	
-1.19	-0.63	0.45	0.52	0.32	0.01	0.00	00.0	-0.01	-0.01	
19.35	18.79	18.36	18.32	18.55	18.93	19.05	19.16	19.27	19.27	
-17.280	-16.280	-14.985	-13.985	-13.000	-10.500	-7.000	-3.500	0.000	0.000	

	CH 600	CH 640				
D CONCEPT DESIGN FOR DA APPROVAL A.S. G.W. 27.07.23 C CONCEPT DESIGN FOR DA APPROVAL 26.06.23 26.06.23 B PRELIMINARY ISSUE FOR DISCUSSION 13.06.23 A PRELIMINARY ISSUE FOR DISCUSSION 09.06.23 Rev Description Checked Approved Date	0 2.5 5.0 7.5m SCALE 1:250 AT ORIGINAL SIZE	GHD Tower Newcastle b 80x 540 T 61 2 4975 E ntimal@c				
Author B.DREW Drafting Check C.PURDON Designer C.BARTLEY Design Check N.HINCKS		Conditions of Use. This document may only be person who GHD has agreed can use this doo prepared and must not be used by any other p				
Plot Date: 4 November 2024 - 4:10 PM Plotted by: Blake Drew	File Name: C:(12dISWIdata\P-00-12D-001/22-12599191 - Boral Quarry - Italia Rd Int_2538/CADD/Drawings/DRGi12599191-GHD-00-00-DRG-CI-01600.dwg	properce and made to be able by any e				

-3.2%

L



in 2%-

CH 620

-3.1%

-3% -2.9%

DATUM R.L. 13.00										
DESIGN SURFACE LEVEL	18.605 18.605	19.725	19.725	10.885	18.625	18.699	18.802	18.906	19.009	19.009
LEVEL DIFFERENCE CUT - / FILL +	4,43	5.54	5.53	4.68	4.43	4.62	00.0	00.0-	0.01	0.01
EXISTING SURFACE LEVEL	14.18	14.18	14.20	14.20	14.21	14.08	18.80	18.91	19.00	19.00
OFFSET FROM CONTROL LINE	-13.545	-13.455	-13.225	12,010	-13.000	-10.500	-7.000	-3.500	000.0	0.000

-3.19 0%

CH 660

-3.1%

	-3	.1%		-3.1%		-2.8%	
DATUM R.L. 17.00	5						_
DESIGN SURFACE LEVEL	18.483 18.535	18.586 18.601	18.677	18.766	18.873	18.970	18.970
LEVEL DIFFERENCE CUT - / FILL +	-0.00 0.05	0.06	0.01	0.00	0.00	00.0	00.0
EXISTING SURFACE LEVEL	18.48 18.48	18.52 18.54	18.66	18.77	18.87	18.97	18.97
OFFSET FROM CONTROL LINE	-14.652 -14.548	-12.898 -12.398	-9.898	-7.000	-3.500	0.000	0.000

-3%]}

18.532 18.616 18.665 18.680

DATUM R.L. 17.00

DESIGN SURFACE LEVEL

LEVEL DIFFERENCE CUT - / FILL +

EXISTING SURFACE LEVEL

OFFSET FROM

CONTROL LINE

	1	in -4	-3.1%		-	3.1%	6	-2.9%	
DATUM R.L. 17.00									
DESIGN SURFACE LEVEL	18.660	18.884	18.936	18.951	19.058	19.089	19.198	19.301	19.301
LEVEL DIFFERENCE CUT - / FILL +	-0.00	0.08	0.06	0.04	00.0	0.00	00.0	00.0-	-0.00
EXISTING SURFACE LEVEL	18.66	18.80	18.88	18.91	19.06	19.09	19.20	19.30	19.30
OFFSET FROM CONTROL LINE	-14,455	-13.556	-11.906	-11.406	-7.988	-7.000	-3.500	0.000	000.0

-3%

-0.00	0.03	0.02	0.00	0.00	00.0	
18.53 18.54	18.64	18.66	18.75	18.82	18.93	
-14.080 -13.911	-12.261	-11.761	-9.261	-7.000	-3.500	

18.754

-3%

18.821

CH 680

-2.9%

18.925

19.028 19.028

0.01

19.02 19.02

0.000

		1 in -6		-2.9%	Π	-2.	9%		
DATUM R.L. 17.00					К				
DESIGN SURFACE LEVEL	18.874	19.141	19.170	19.299	19.310	19.412	19.515	19.515	
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.13	0.10	00.0	0.00	0.0	00.0-	-0.00	
EXISTING SURFACE LEVEL	18.87	19.01	19.07	19.30	19.31	19.41	19.52	19.52	
OFFSET FROM CONTROL LINE	-14.371	-12.770	-11.770	-7.351	-7.000	-3.500	0.000	0.000	

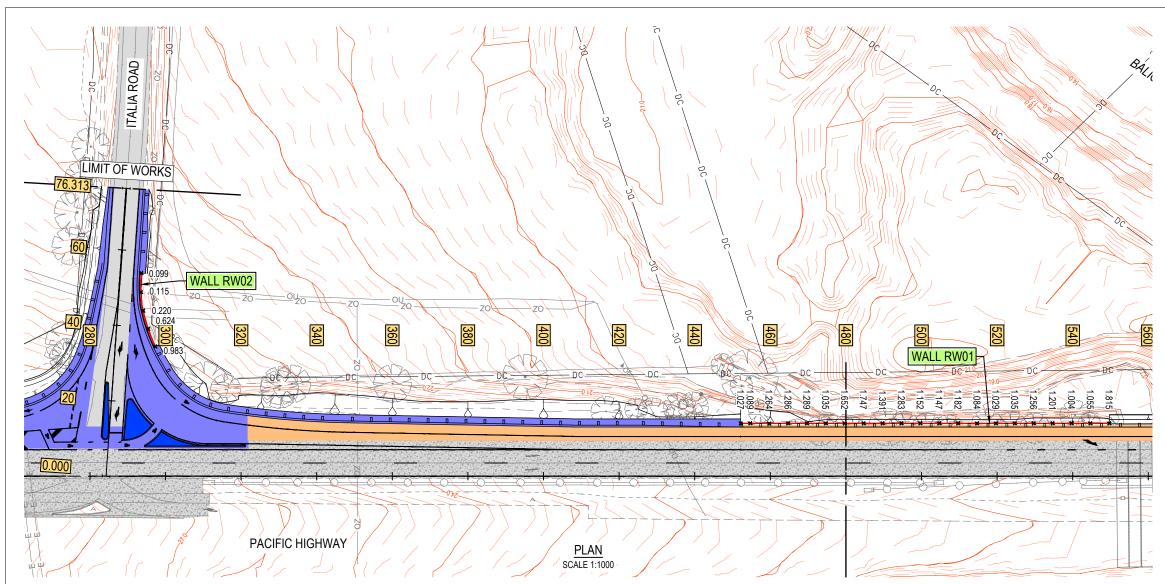
SHEET 6 OF 6

Drawing CROSS SECTIONS

CH 700

	-3%)	-2.8%	
18.884	18.933	19.039	19.138	19.138
0.00	0.00	00.0	00.0-	
18.88	18.93	19.04	19.14	19.14
-8.625	-7.000	-3.500	0.000	0000

CH 720



			_	
DATUM RL. 14.00				
DESIGN TOP OF WALL SURFACE LEVEL	25.496 -	25.186 -	24.915 -	24.677 - 24.612 -
DESIGN TOE OF WALL SURFACE LEVEL	24.513 -	24.562 -	24.695	24.562 - 24.513 -
EXISTING SURFACE LEVEL	24.345 -	24.590 -	1	1 1
HEIGHT OF WALL	- 683.	0.624 -	0.220	0.115 - 0.099 -
CHAINAGE	- 000.0	5.000 -	10.000 -	15.000 - 15.353 -

	0.0	5.0	10	15	15			
LONGITUDINA	_ S	SEC	CTI	10	۷-	RW02 TOP		

HORIZONTAL SCALE 1:1000 VERTICAL SCALE 1:500

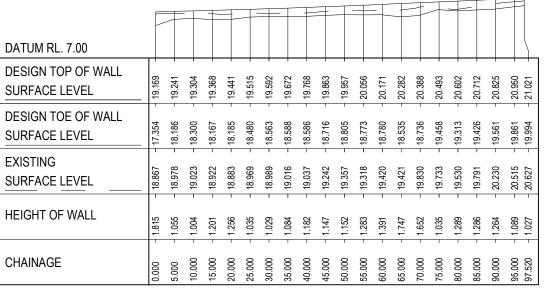
20

30m

10

SCALE 1:1000 AT ORIGINAL SIZE

AS GW 18.06.24 Checked Approved Date



LONGITUDINAL SECTION - RW01 TOP HORIZONTAL SCALE 1:1000

VERTICAL SCALE 1:500



GHD Tower, Level 3 24 Honeysuckle Drive Newcastle NSW 2300 Australia PO Box 5403 Hunter Rym Mail Cent. NSW 2310 T 61 2 4979 9999 F 61 2 4979 9988 E ntlmail@ghd.com W www.ghd.com	www.ghd.com	Client Project	BORAL RESOURCES (NSW) PTY LTD BORAL QUARRY SEAHAM ITALIA ROAD INTERSECTION	Drawing RETAINING WALL LOCATIONS AND PROFILES SHEET 1 OF 1	Size A3
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 Designer
 C.BARTLEY
 Design Check
 N.HINCKS

 Plot Date:
 4 November 2024 - 4:10 PM
 Plotted by:
 Blake Drew

Drafting Check C.PURDON

A CONCEPT DESIGN FOR DA APPROVAL Rev Description

C.BARTLEY

Author

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GENERAL	
79.0	EXISTING CONTOUR MAJOR (1.0m)
	EXISTING CONTOUR MINOR (0.2m)
79.0	DESIGN CONTOUR MAJOR (1.0m)
	DESIGN CONTOUR MINOR (0.2m)
	SURVEY
	DESIGN STRINGS
DC	DIGITAL CADASTRE
	EXISTING BRIDGE DECK
	PROPOSED BRIDGE DECK
	EZYGUARD 4 (OR SIMILAR) BARRIER
	RETAINING WALL
×	RETAINING WALL SPOT HEIGHT (m)

ROAD GEOMETRY & ALIGNMENT

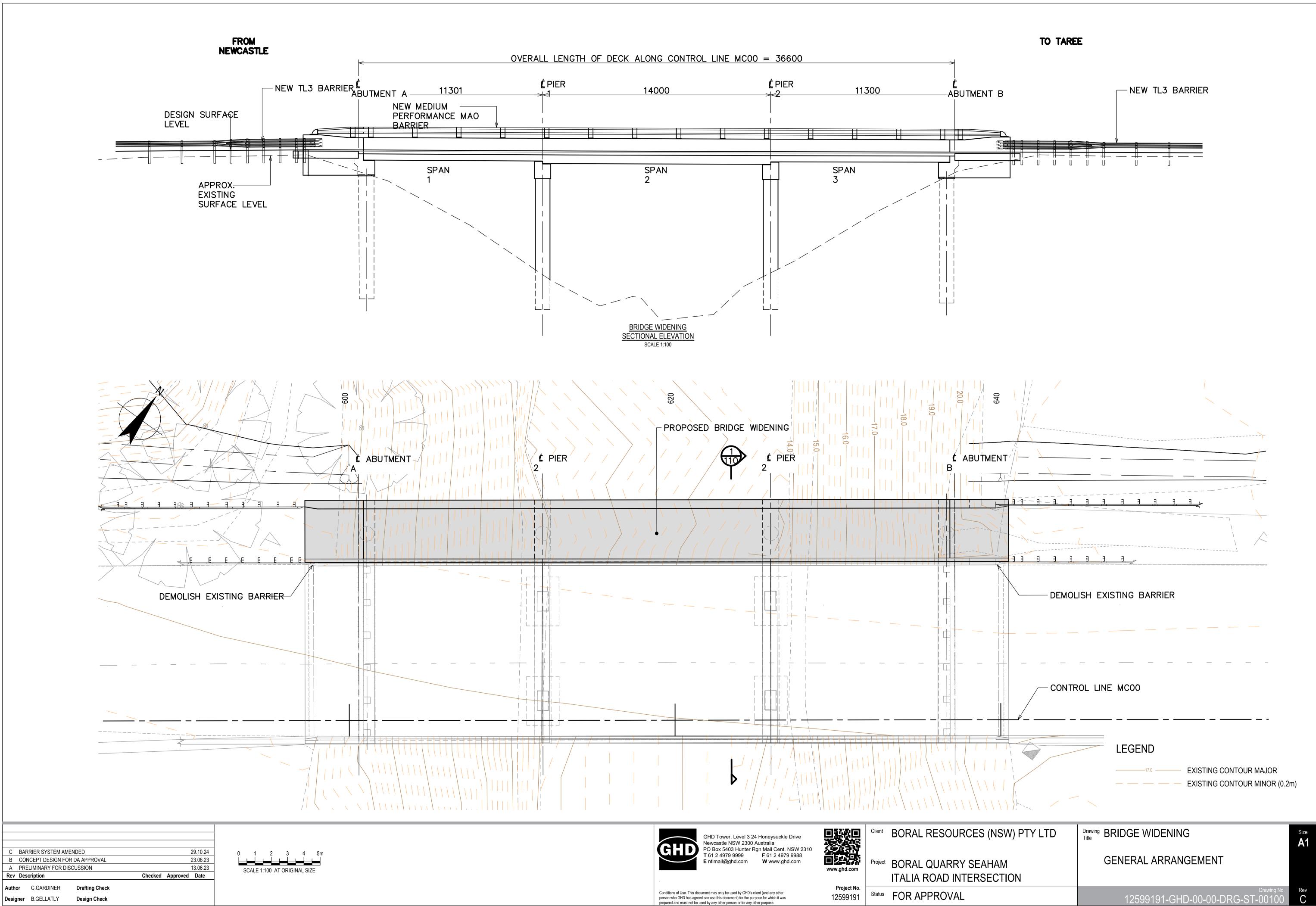
A MASTER CONTROL LINE							
PAVEMENT							
	PT1 - NEW CONCRETE PAVEMENT						
	PT2 - NEW ASPHALT PAVEMENT.						
	PT3 - NEW CONCRETE MEDIAN						
	EXISTING CONCRETE PAVEMENT						
	EXISTING FLEXIBLE PAVEMENT						

NOTE

1. REFER TO DRAWINGS 12599191-GHD-00-00-DRG-CI-01051 FOR OVERVIEW PLAN

- 2. REFER TO DRAWINGS 12599191-GHD-00-00-DRG-CI-01111 FOR MC00 LONGITUDINAL SECTION
- 3. REFER TO DRAWINGS 12599191-GHD-00-00-DRG-CI-01601 TO 12599191-GHD-00-00-DRG-CI-01606 FOR MC00 CROSS SECTIONS

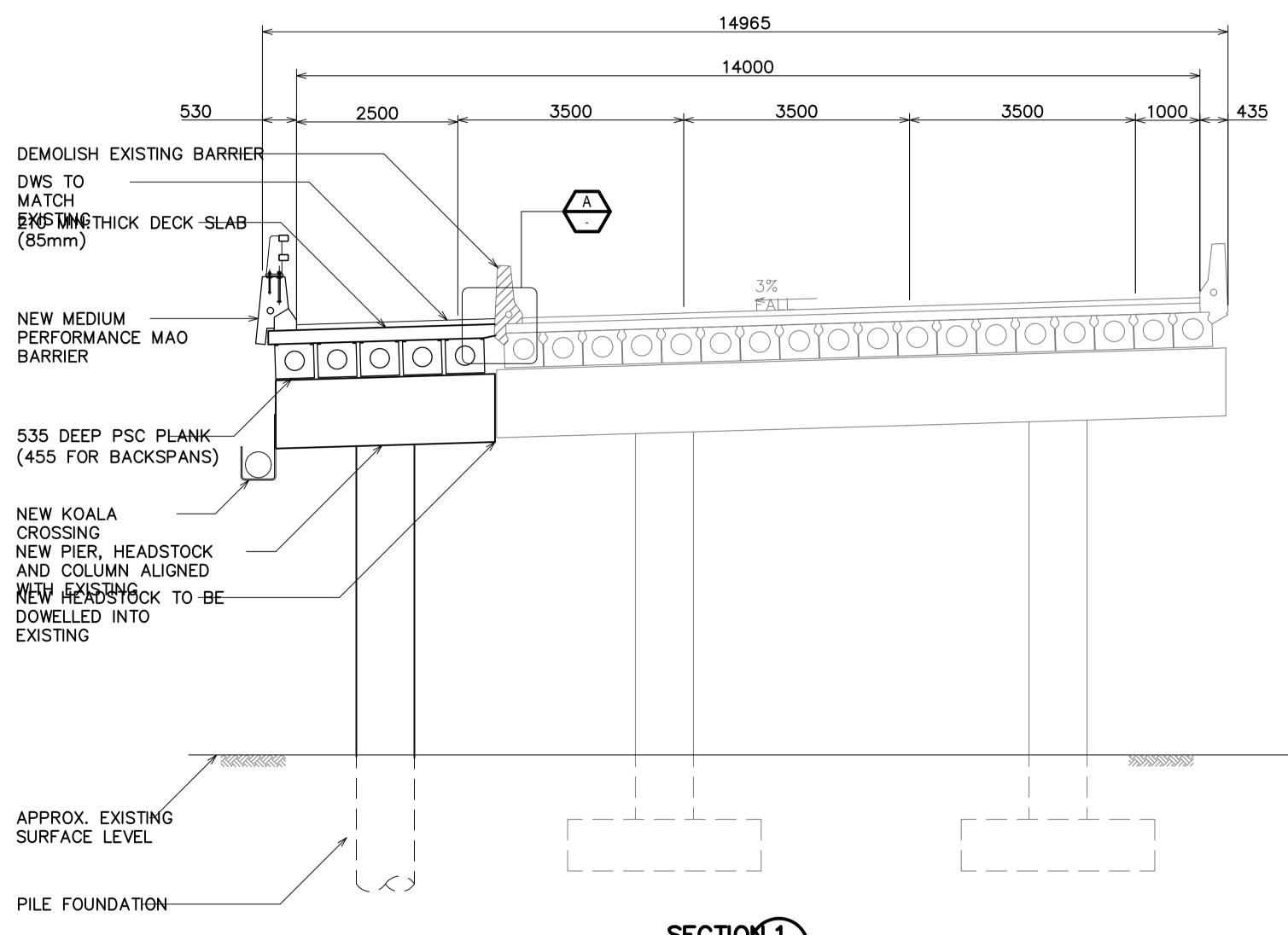
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	NCEPT DESIGN FO		23.06.23 19.06.23	
Rev Des	scription		Checked Approved Date	
Author	C.GARDINER	Drafting Check		SCALE 1:10 AT ORIGINAL SIZE
Designer	B.GELLATLY	Design Check		

Plot Date: 4 November 2024 - 5:21 PM Plotted by: Blake Drew





GHD Tower, Level 3 24 Honeysuckle DriveNewcastle NSW 2300 AustraliaPO Box 5403 Hunter Rgn Mail Cent. NSW 2310T 61 2 4979 9999F 61 2 4979 9988E ntlmail@ghd.comW www.ghd.com



Project No.

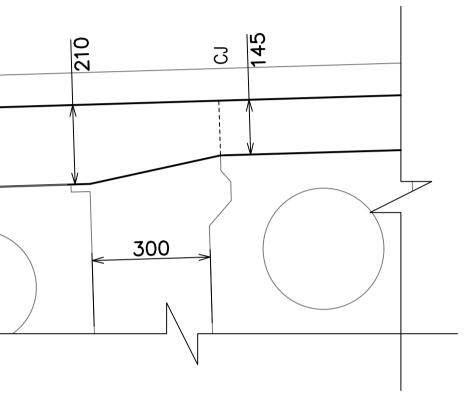
12599191

Client	BORAL RESOURCES (NSW) PTY LTD	Drawing Title BRIDGE WIDENING	Size A1
Project	BORAL QUARRY SEAHAM ITALIA ROAD INTERSECTION	SECTION AND DETAILS	
Status	FOR APPROVAL	Drawing No. 12599191-GHD-00-00-DRG-ST-00110	Rev B

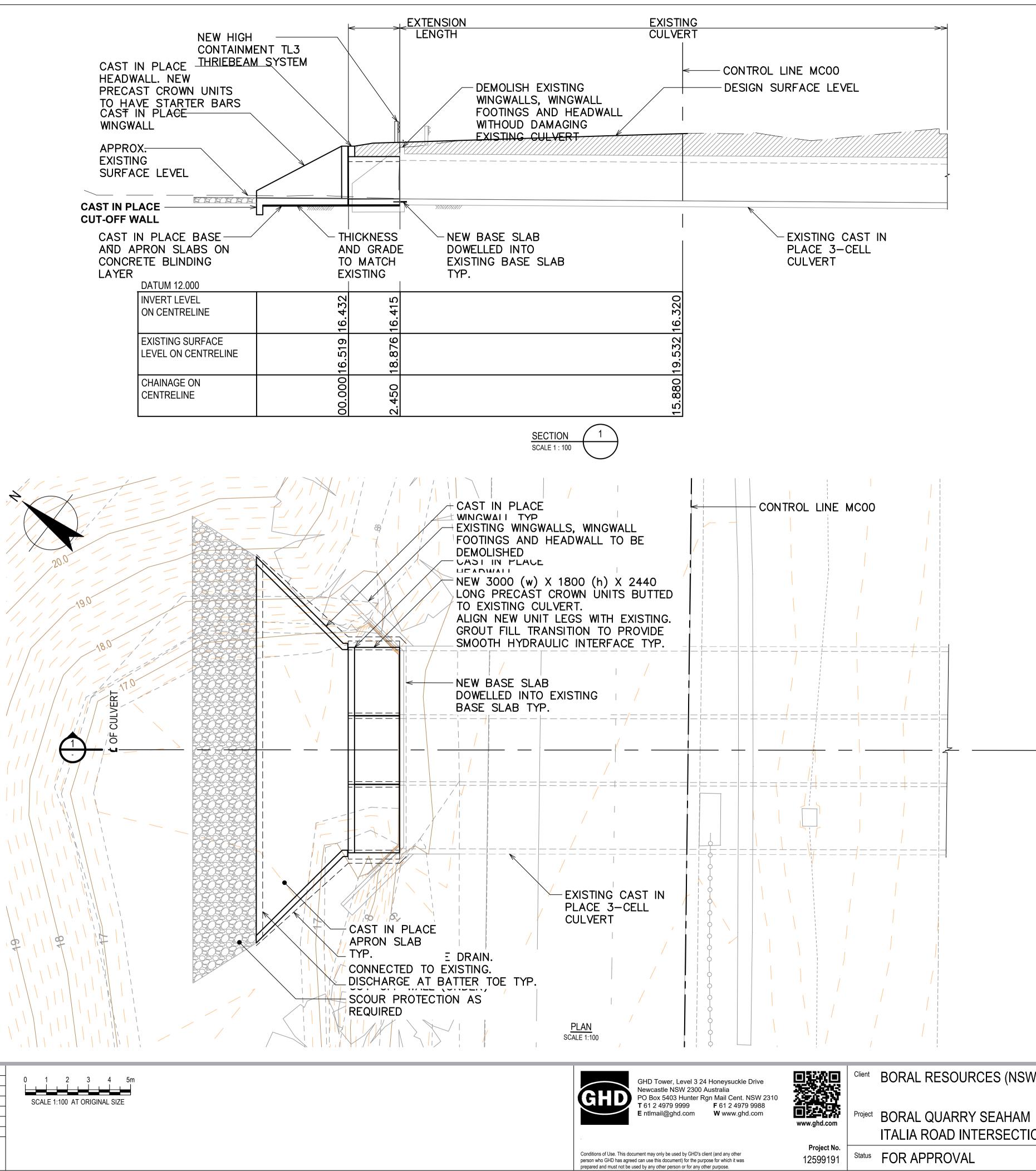
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RC DECK SLAB TRANSITION / TAPER



HEADWA PRECAS TO HAN CAST II WINGWA APPROX EXISTIN	K. G CE LEVEL	N
CAST IN PL		
AND AF	N PLACE BASE PRON SLABS ON TE BLINDING DATUM 12.000	THI ANI TO EXIS
	INVERT LEVEL ON CENTRELINE	16.432
	EXISTING SURFACE LEVEL ON CENTRELINE	519
	CHAINAGE ON CENTRELINE	00.000 16.



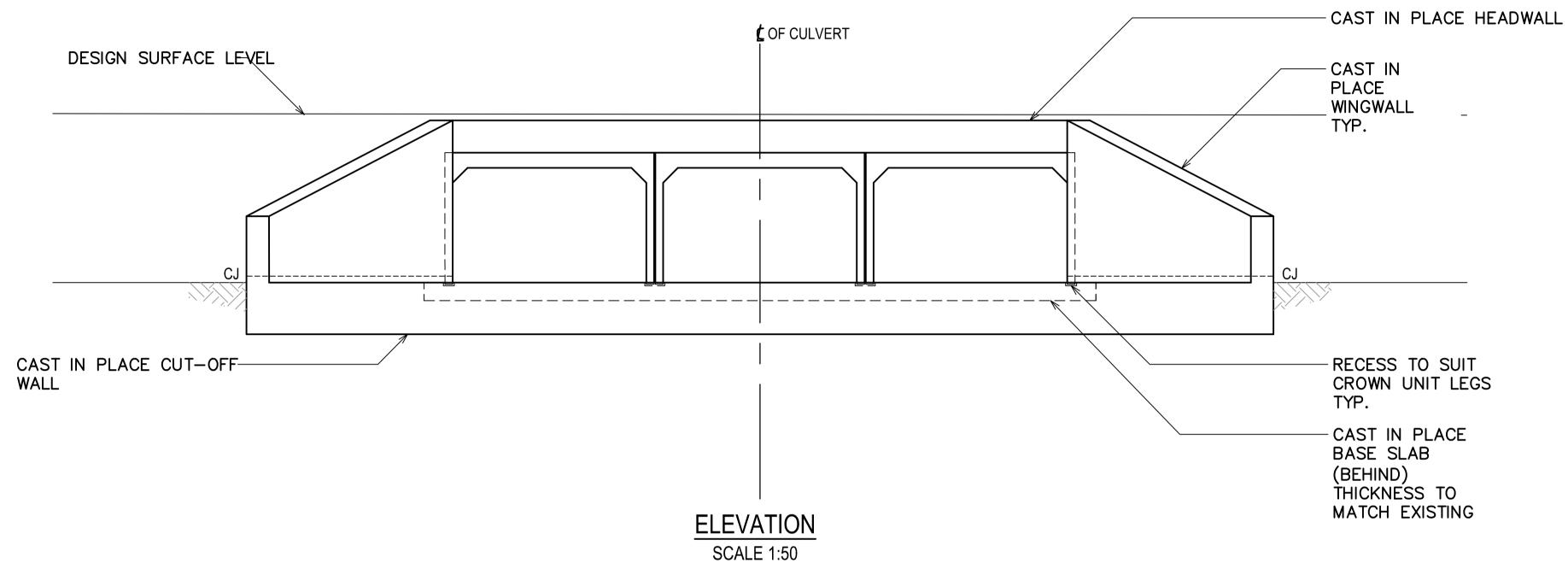
B CC A PR Rev Des Author	RRIER SYSTEM AME NCEPT DESIGN FOR ELIMINARY FOR DIS(scription C.GARDINER B.GELLATLY	DA APPROVAL	Checked	29.10.24 23.06.23 19.06.23 Date	3
Plot Date:	4 November 2024 - 5	:22 PM Plotted by:	Blake Drew		File Name: C:\12d\SW\data\P-00-12D-001\22-12599191 - Boral Quarry - Italia Rd Int_2538\CADD\Drawings\DRG\125991

W) PTY LTD	Drawing CULVERT EXTENSION	Size A1
1 ION	GENERAL ARRANGEMENT SHEET A	
	Drawing No. 12599191-GHD-00-00-DRG-ST-00200	Rev B



_____17.0 ____

EXISTING CONTOUR MAJOR EXISTING CONTOUR MINOR (0.2m)



A PRELIMINARY FOR DISCUSSION 19	0 0.5 1.0 1.5 2.0 2.5m SCALE 1:50 AT ORIGINAL SIZE 3.06.23 Date
Author C.GARDINER Drafting Check Designer B.GELLATLY Design Check	
Plot Date: 4 November 2024 - 5:22 PM Plotted by: Blake Drew	File Name: C:\12d\SW\data\P-00-12D-001\22-12599191 - Boral Quarry - Italia Rd Int_2538\CADD\Drawings\DRG\12599191



V) PTY LTD	Drawing Title CULVERT EXTENSION	Siz A
ON	GENERAL ARRANGEMENT SHEET B	
	Drawing No. 12599191-GHD-00-00-DRG-ST-00201	Re B