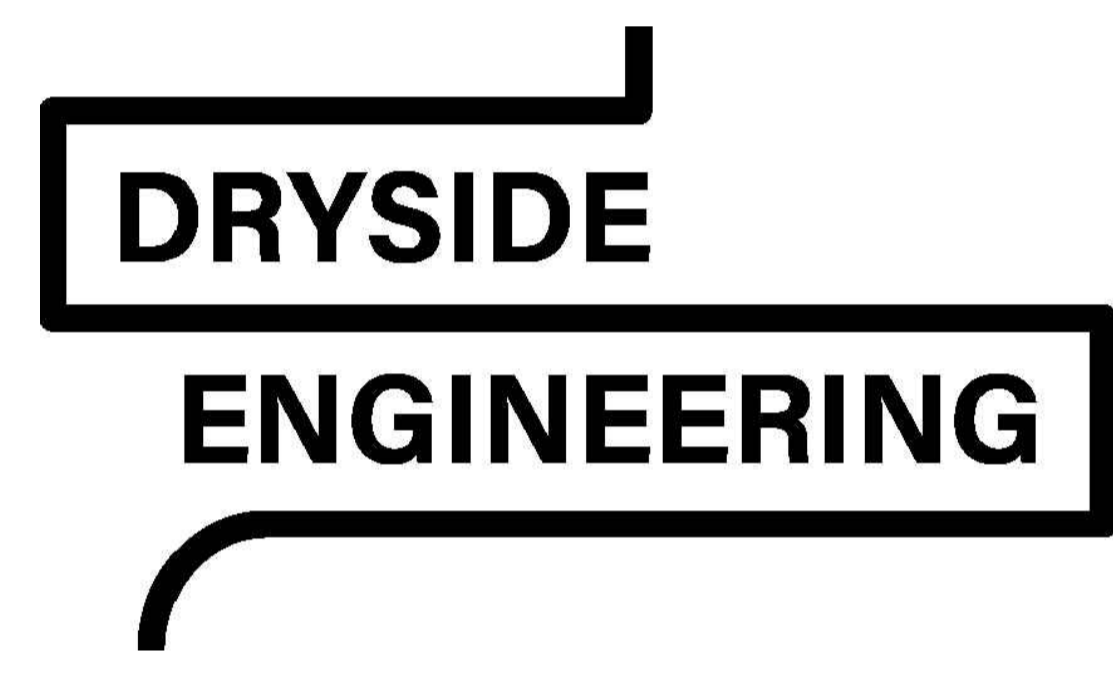


DATE PLOTTED: 1 December 2023 3:27 PM BY: AARON WARD

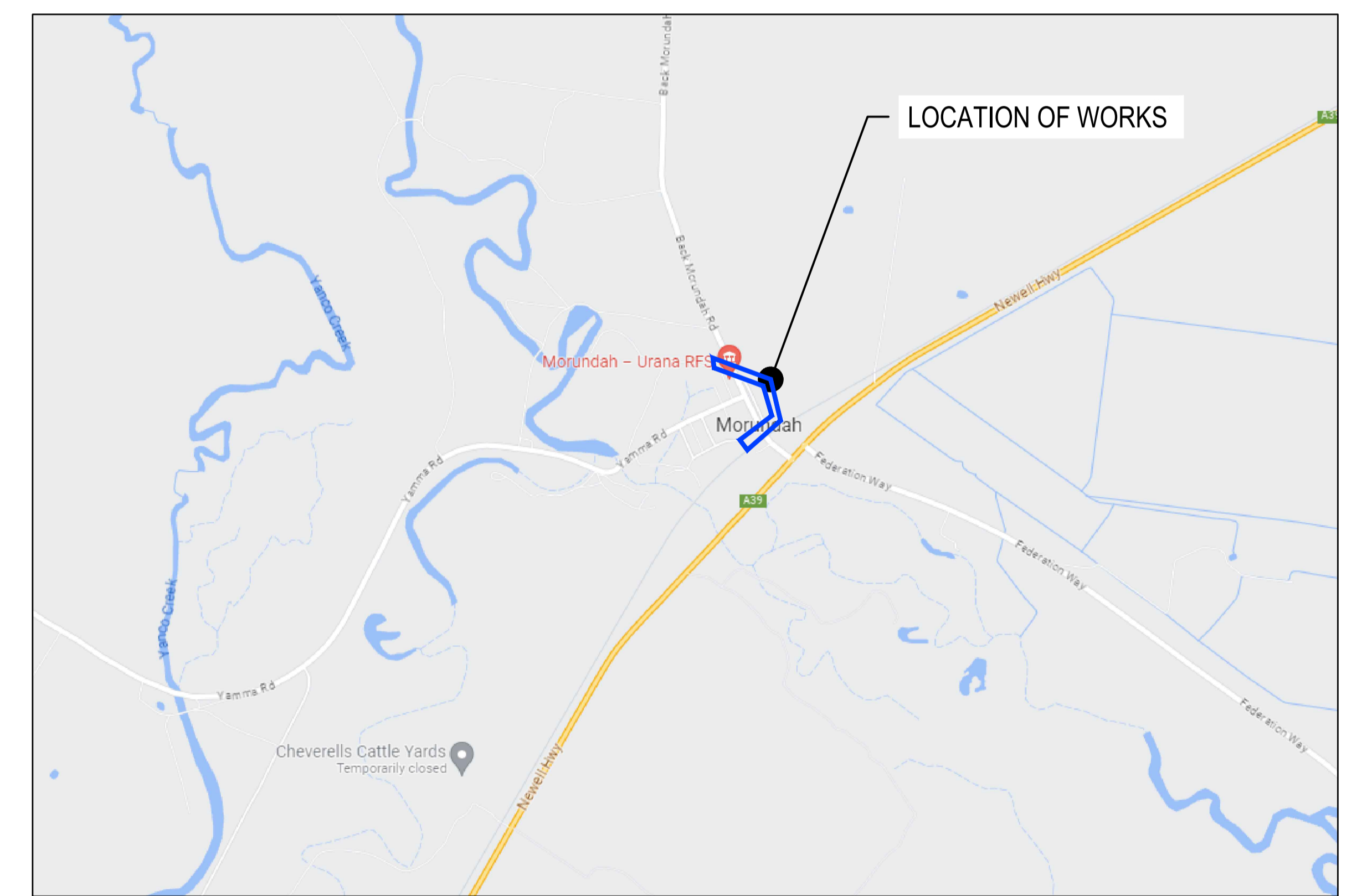
MORUNDAH FLOOD MITIGATION DESIGN

WIDGIEWA STREET, MORUNDAH NSW

FOR FEDERATION COUNCIL



DRAWING REGISTER	
SHEET NUMBER	SHEET TITLE
0001	FACESHEET, LOCALITY PLAN AND DRAWING REGISTER
0100	OVERALL LAYOUT PLAN
1000	BUND LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 1 OF 3
1001	BUND LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 2 OF 3
1002	BUND LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 3 OF 3
1003	LEVEE CULVERT LAYOUT PLAN AND SECTION
1100	TYPICAL DETAILS - SHEET 1 OF 2
1101	TYPICAL DETAILS - SHEET 2 OF 2
1200	ROAD LONGITUDINAL SECTIONS - SHEET 1 OF 3
1201	ROAD LONGITUDINAL SECTIONS - SHEET 2 OF 3
1202	ROAD LONGITUDINAL SECTIONS - SHEET 3 OF 3
1300	BUND CROSS SECTIONS - SHEET 1 OF 2
1301	BUND CROSS SECTIONS - SHEET 2 OF 2



LOCALITY PLAN
NOT TO SCALE
GOOGLE IMAGE (ACCESSED ON 26/10/2023)

PRELIMINARY DESIGN
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REV	DATE	DESCRIPTION	DES	VER	APP
2	01/12/2023	PRELIMINARY ISSUE	AW	EH	-
1	-	NOT ISSUED AS PART OF DRAWING SET	-	-	-

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FEDERATION COUNCIL
MORUNDAH FLOOD MITIGATION DESIGN
WIDGIEWA STREET
MORUNDAH, NSW 2700
PRELIMINARY DESIGN
FACESHEET, LOCALITY PLAN
AND DRAWING REGISTER

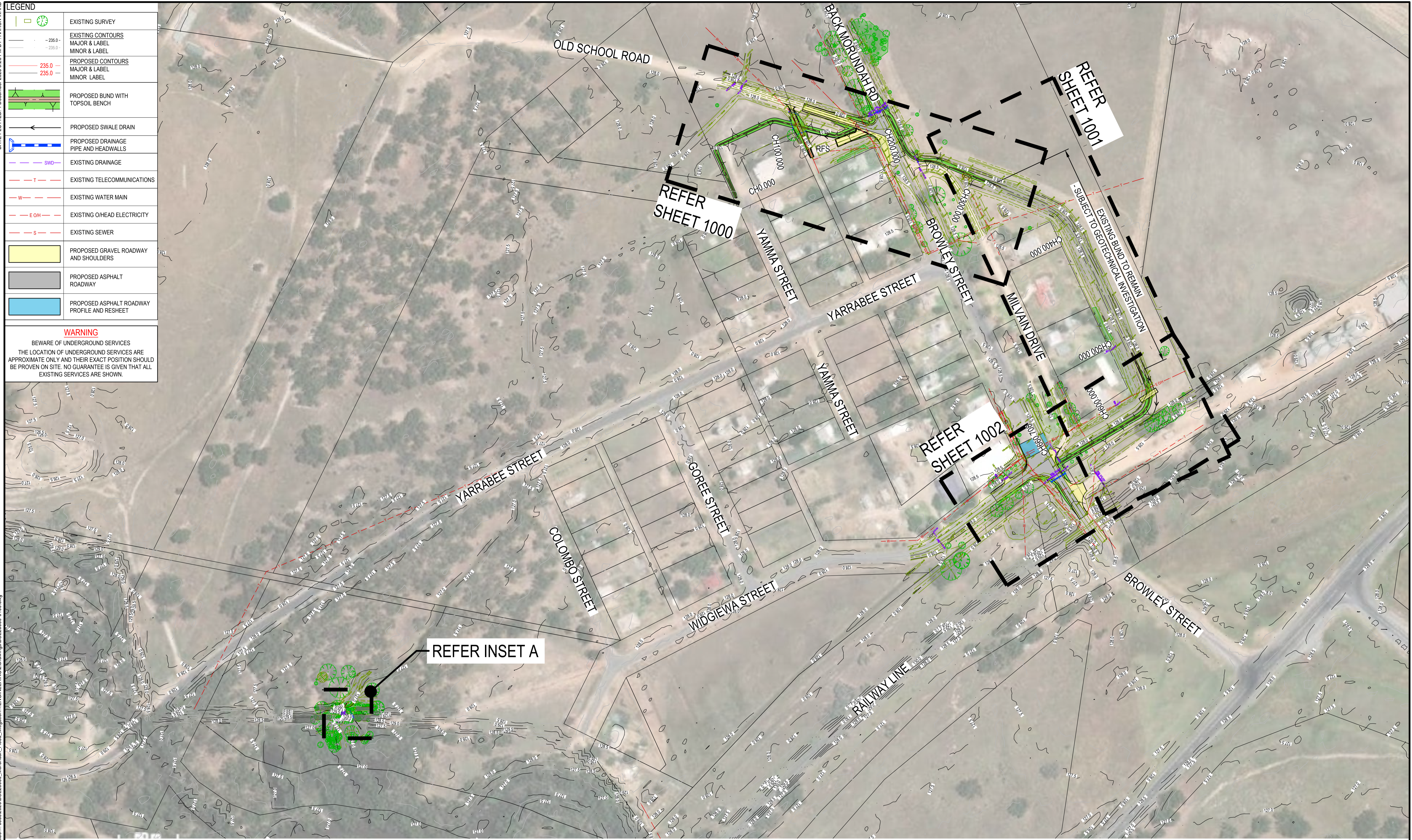
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DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/10/2023	GD2020	A1

DSE23030-0001 2

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DATE PLOTTED: 1 December 2023 3:28 PM BY: AARON WARD

LEGEND	
	EXISTING SURVEY
	EXISTING CONTOURS MAJOR & LABEL MINOR & LABEL
	PROPOSED CONTOURS MAJOR & LABEL MINOR LABEL
	PROPOSED BUND WITH TOPSOIL BENCH
	PROPOSED SWALE DRAIN
	PROPOSED DRAINAGE PIPE AND HEADWALLS
	EXISTING DRAINAGE
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING OHEAD ELECTRICITY
	EXISTING SEWER
	PROPOSED GRAVEL ROADWAY AND SHOULDERS
	PROPOSED ASPHALT ROADWAY
	PROPOSED ASPHALT ROADWAY PROFILE AND RESHEET
WARNING	
BEWARE OF UNDERGROUND SERVICES THE LOCATION 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.	

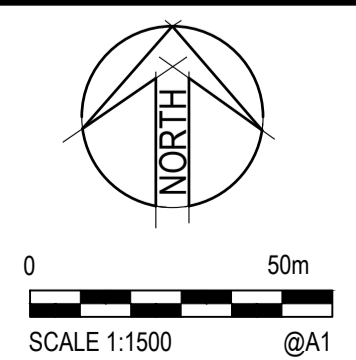


OVERALL LAYOUT PLAN
SCALE 1:1500

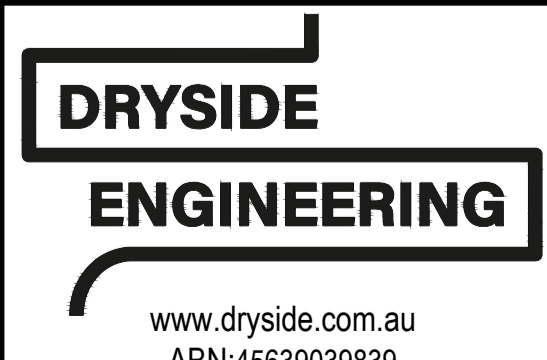
PRELIMINARY DESIGN
NOT TO BE USED FOR CONSTRUCTION PURPOSES

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REV	DATE	DESCRIPTION	DES	VER	APP
2	01/12/2023	PRELIMINARY ISSUE	AW	EH	-
1	10/11/2023	ISSUED TO COUNCIL FOR ALIGNMENT APPROVAL	AW	EH	-



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FEDERATION COUNCIL
MORUNDAH FLOOD MITIGATION DESIGN
WIDGIEWA STREET
MORUNDAH, NSW 2700
PRELIMINARY DESIGN
OVERALL LAYOUT PLAN

DRAWN	DATE	SCALE	DATUM
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DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/10/2023	GD2020	A1
DSE23030-0100			2

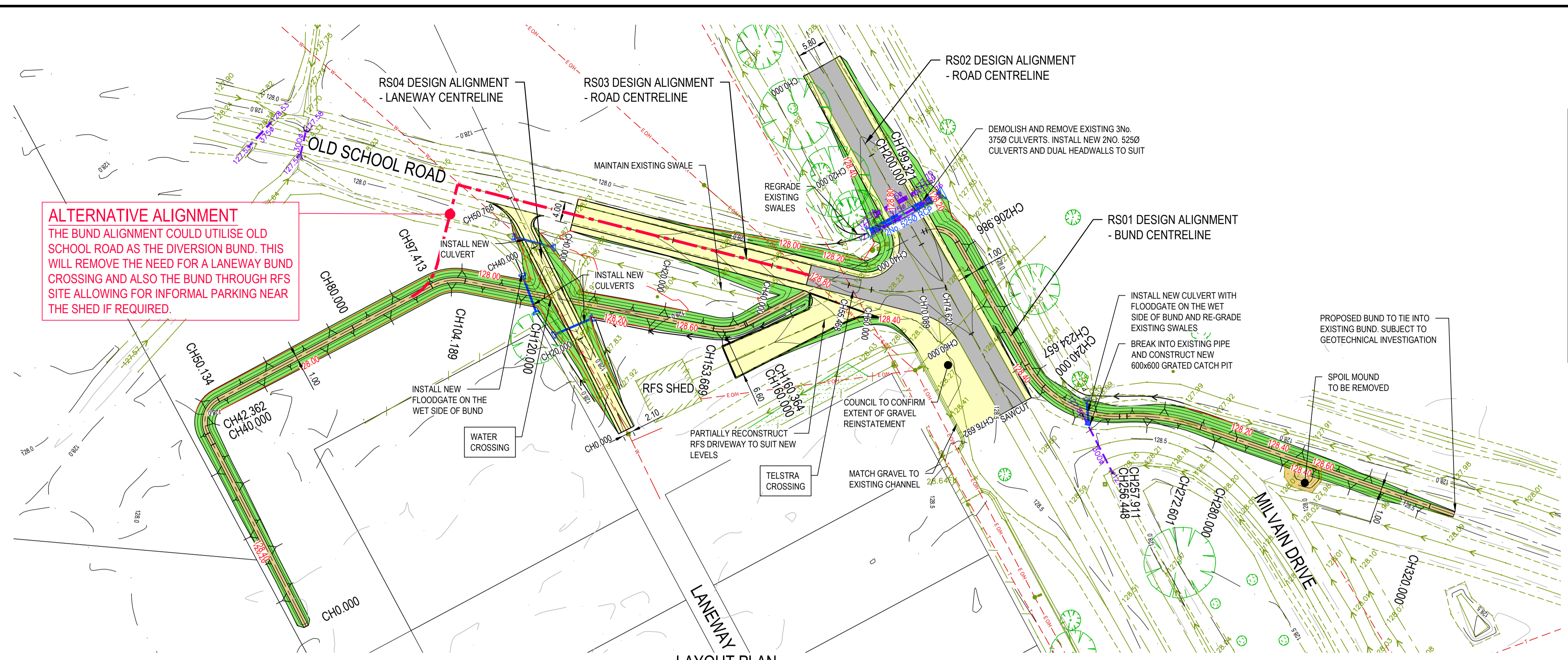
DATE PLOTTED: 1 December 2023 3:28 PM BY: AARON WARD

LEGEND

- EXISTING SURVEY
- EXISTING CONTOURS MAJOR & LABEL MINOR & LABEL
- PROPOSED CONTOURS MAJOR & LABEL MINOR LABEL
- PROPOSED LEVEE WITH TOPSOIL BENCH
- PROPOSED SWALE DRAIN
- PROPOSED DRAINAGE PIPE AND HEADWALLS
- EXISTING DRAINAGE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER MAIN
- EXISTING O/H ELECTRICITY
- EXISTING SEWER
- PROPOSED GRAVEL ROADWAY AND SHOULDERS
- PROPOSED ASPHALT ROADWAY
- PROPOSED ASPHALT ROADWAY PROFILE AND RESHEET

WARNING
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EXISTING SERVICES
ALL EXISTING SERVICES TO BE PROTECTED DURING THE WORKS. CONCRETE ENCASEMENT FOR EXISTING SERVICE HIGHLIGHTED AS PER THE SERVICE LEVEE CROSSING DETAIL.



ALTERNATIVE ALIGNMENT
THE BUND ALIGNMENT COULD UTILISE OLD SCHOOL ROAD AS THE DIVERSION BUND. THIS WILL REMOVE THE NEED FOR A LANEWAY BUND CROSSING AND ALSO THE BUND THROUGH RFS SITE ALLOWING FOR INFORMAL PARKING NEAR THE SHED IF REQUIRED.

FOR CONTINUATION REFER TO NEXT SHEET

LAYOUT PLAN
SCALE 1:500

CHAINAGE	DESIGN BUND CENTRELINE	5%AEP PROFILE AT CENTRELINE	EXISTING SURFACE PROFILE AT CENTRELINE	DEPTH TO EXISTING SURFACE
0+000	128.223	128.22	128.22	0.00
0+082	128.523	128.22	128.22	-0.30
40+000	128.524	128.24	128.05	-0.47
42+362	128.524	128.25	128.02	-0.50
50+134	128.525	128.31	127.98	-0.55
80+000	128.525	128.36	127.88	-0.64
97+413	128.526	128.39	127.89	-0.64
104+189	128.526	128.43	127.89	-0.63
104+199	128.526	128.43	127.89	-0.63
120+000	128.585	128.46	127.87	-0.70
153+689	128.649	128.55	128.12	-0.53
153+699	128.649	128.55	128.12	-0.53
160+000	128.685	128.52	128.18	-0.49
163+364	128.686	128.52	128.18	-0.48
199+321	128.767	128.66	128.39	-0.36
199+533	128.767	128.67	128.39	-0.38
200+000	128.768	128.67	128.37	-0.40
206+986	128.771	128.67	128.12	-0.65
206+996	128.772	128.67	128.12	-0.65
234+657	128.774	128.67	128.36	-0.42
240+000	128.774	128.67	128.36	-0.41
256+448	128.776	128.67	128.49	-0.28
257+911	128.776	128.67	128.50	-0.28
272+601	128.777	128.68	128.31	-0.47
272+611	128.777	128.68	128.31	-0.47
280+000	128.778	128.68	128.28	-0.50
320+000	128.780	128.68	128.68	-0.10

RS01 - BUND LONGITUDINAL SECTION
SCALE H 1:500 V 1:50

PRELIMINARY DESIGN
NOT TO BE USED FOR CONSTRUCTION PURPOSES

XREFS: X:DSE23030-CA0ASTRAL: X:DSE23030-SURVEY: X:DSE23030-COMT-E: X:DSE23030-CONT-D: P-RS01-LS-1000; P-RS01-LS-1001; P-RS01-LS-1002; CAD File: C:\Users\aron\OneDrive\Engineering\Dropbox\Dryside\1_Morundah_Flood_Mitigation\Engineering\Drawings\2023\23030-1000.dwg

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MORUNDAH FLOOD MITIGATION DESIGN
WIDGIEWA STREET
MORUNDAH, NSW 2700
PRELIMINARY DESIGN
BUND LAYOUT PLAN AND LONGITUDINAL SECTION
SHEET 1 OF 3

DRAWN	DATE	SCALE	DATUM
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DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/10/2023	GD2020	A1

DSE23030-1000 2

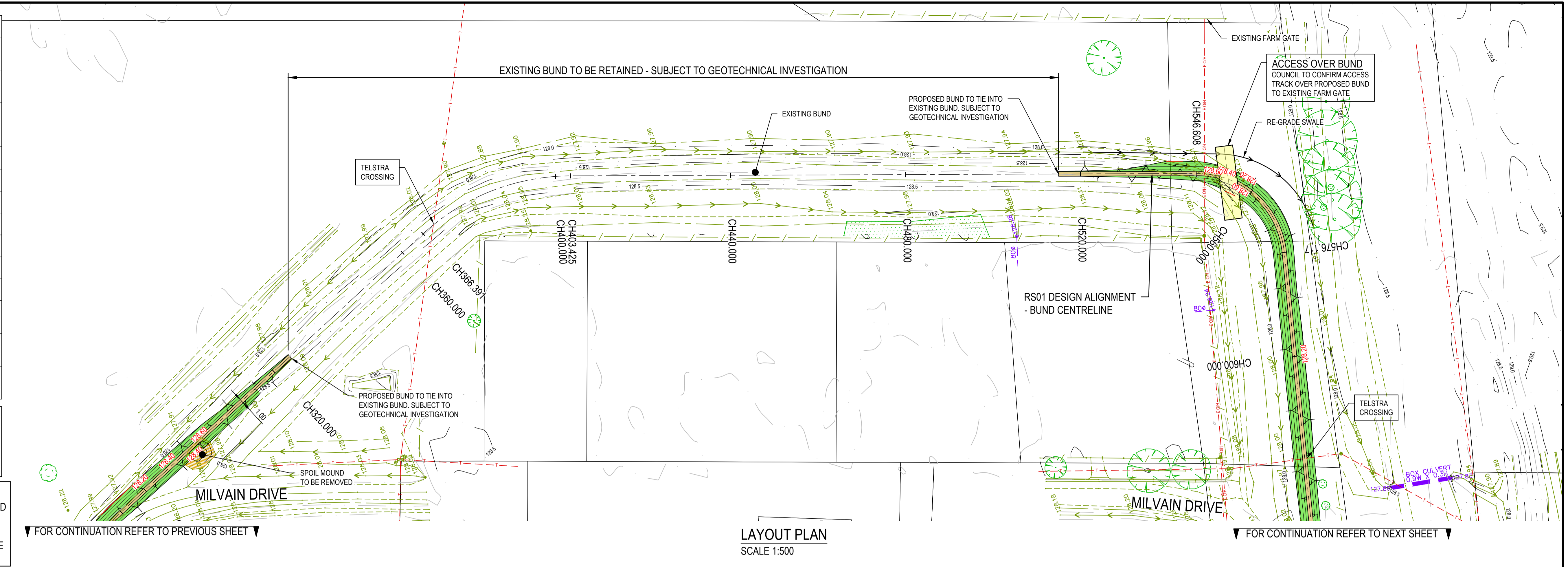
DATE PLOTTED: 1 December 2023 3:28 PM BY: AARON WARD

LEGEND

- EXISTING SURVEY
- EXISTING CONTOURS MAJOR & LABEL MINOR & LABEL
- PROPOSED CONTOURS MAJOR & LABEL MINOR LABEL
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- EXISTING DRAINAGE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER MAIN
- EXISTING OHEAD ELECTRICITY
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WARNING
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EXISTING SERVICES
ALL EXISTING SERVICES TO BE PROTECTED DURING THE WORKS. CONCRETE ENCASUREMENT FOR EXISTING SERVICE HIGHLIGHTED AS PER THE SERVICE LEVEE CROSSING DETAIL.



EXISTING BUND

CHAINAGE	320.000	360.000	366.391	400.000	403.425	403.435	440.000	480.000	520.000	546.608	546.619	560.000
DESIGN GEOMETRY OF CENTRELINE	50 R		20 R									
VERTICAL CURVES	0.01%											
DESIGN GRADING OF CENTRELINE	-0%											
DATUM RL 124.00												
DESIGN BUND CENTRELINE	128.750	128.65	128.65	128.65	128.65	128.65	128.65	128.65	128.65	128.755	128.755	128.755
5% AEP PROFILE AT CENTRELINE	128.65	128.65	128.65	128.65	128.69	128.69	128.69	128.69	128.69	128.65	128.65	128.65
EXISTING SURFACE PROFILE AT CENTRELINE	128.65	128.74	128.74	128.71	128.70	128.70	128.80	128.81	128.74	128.12	128.12	128.16
DEPTH TO EXISTING SURFACE	-0.10								-0.04	-0.67	-0.67	-0.63

RS01 - BUND LONGITUDINAL SECTION
SCALE H 1:500 V 1:50

PRELIMINARY DESIGN
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WIDGIEWA STREET
MORUNDAH, NSW 2700
PRELIMINARY DESIGN
BUND LAYOUT PLAN AND LONGITUDINAL SECTION
SHEET 2 OF 3

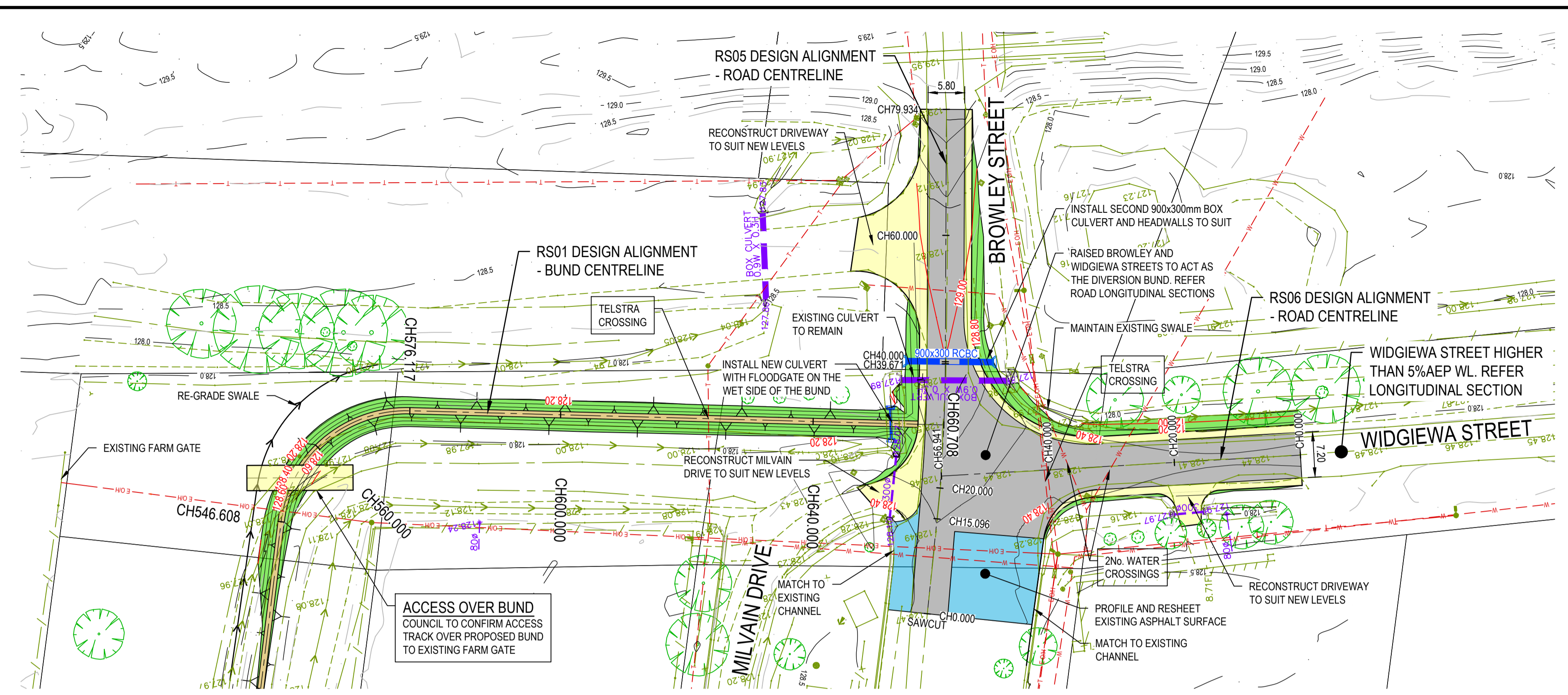
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DSE23030-1001			2

DATE PLOTTED: 1 December 2023 3:27 PM BY: AARON WARD

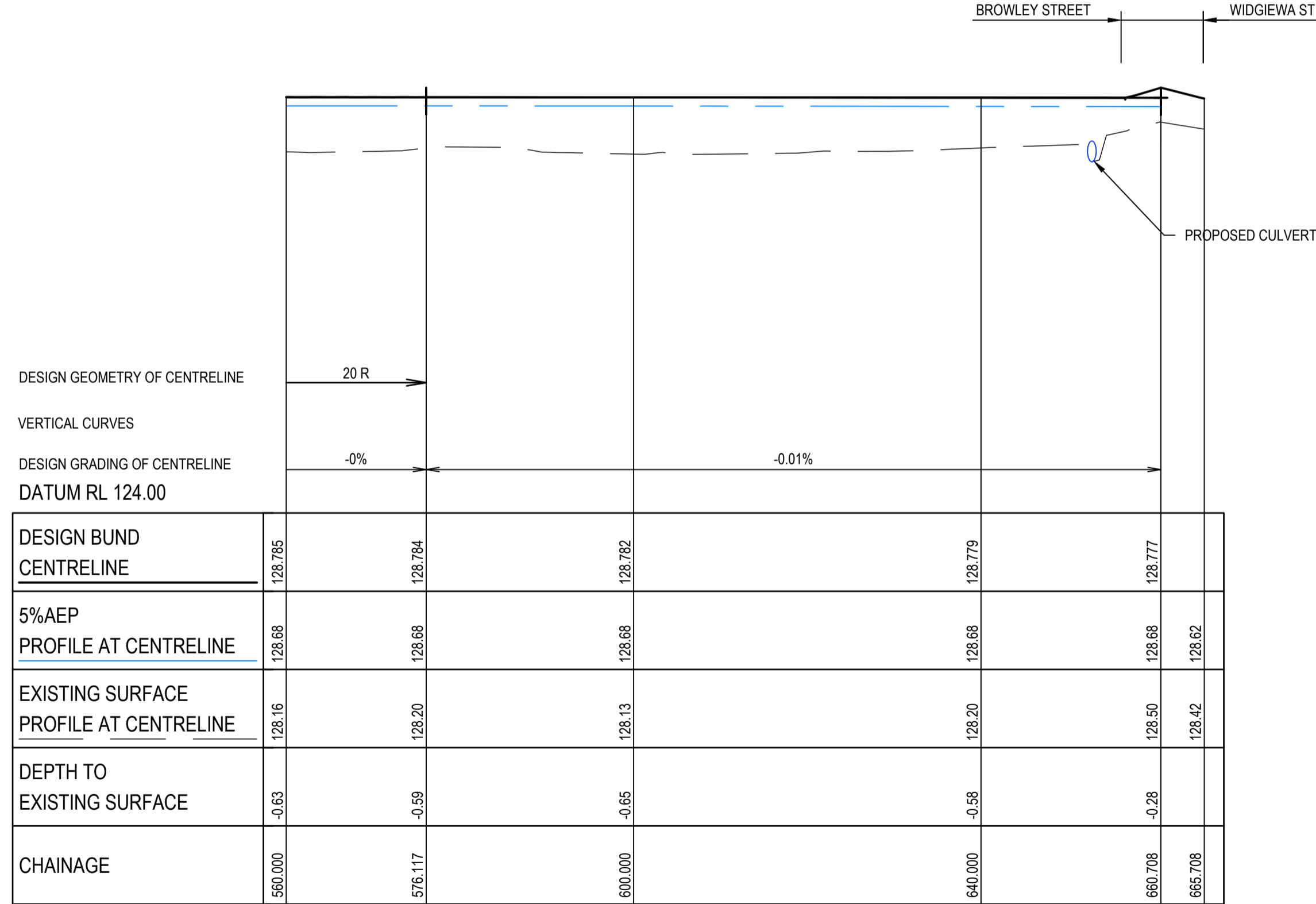
LEGEND	
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	EXISTING CONTOURS MAJOR & LABEL
	EXISTING CONTOURS MINOR & LABEL
	PROPOSED CONTOURS MAJOR & LABEL
	PROPOSED CONTOURS MINOR & LABEL
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	EXISTING DRAINAGE
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	EXISTING WATER MAIN
	EXISTING OHEAD ELECTRICITY
	EXISTING SEWER
	PROPOSED GRAVEL ROADWAY AND SHOULDERS
	PROPOSED ASPHALT ROADWAY
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▼ FOR CONTINUATION REFER TO PREVIOUS SHEET ▼
LAYOUT PLAN
SCALE 1:500

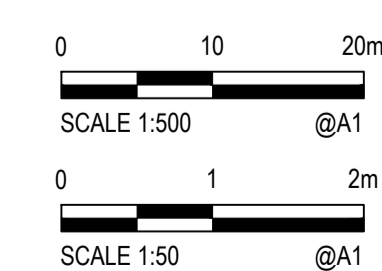


RS01 - BUND LONGITUDINAL SECTION
SCALE H 1:500 V 1:50

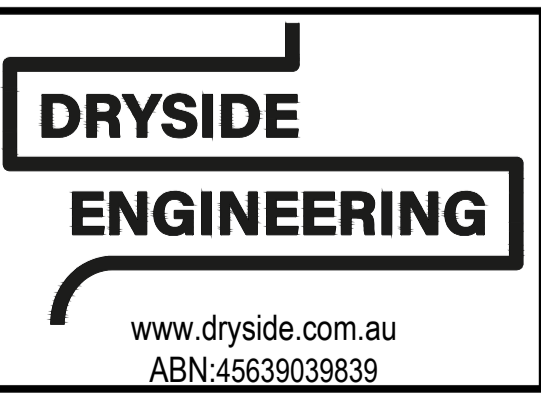
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NOT TO BE USED FOR CONSTRUCTION PURPOSES

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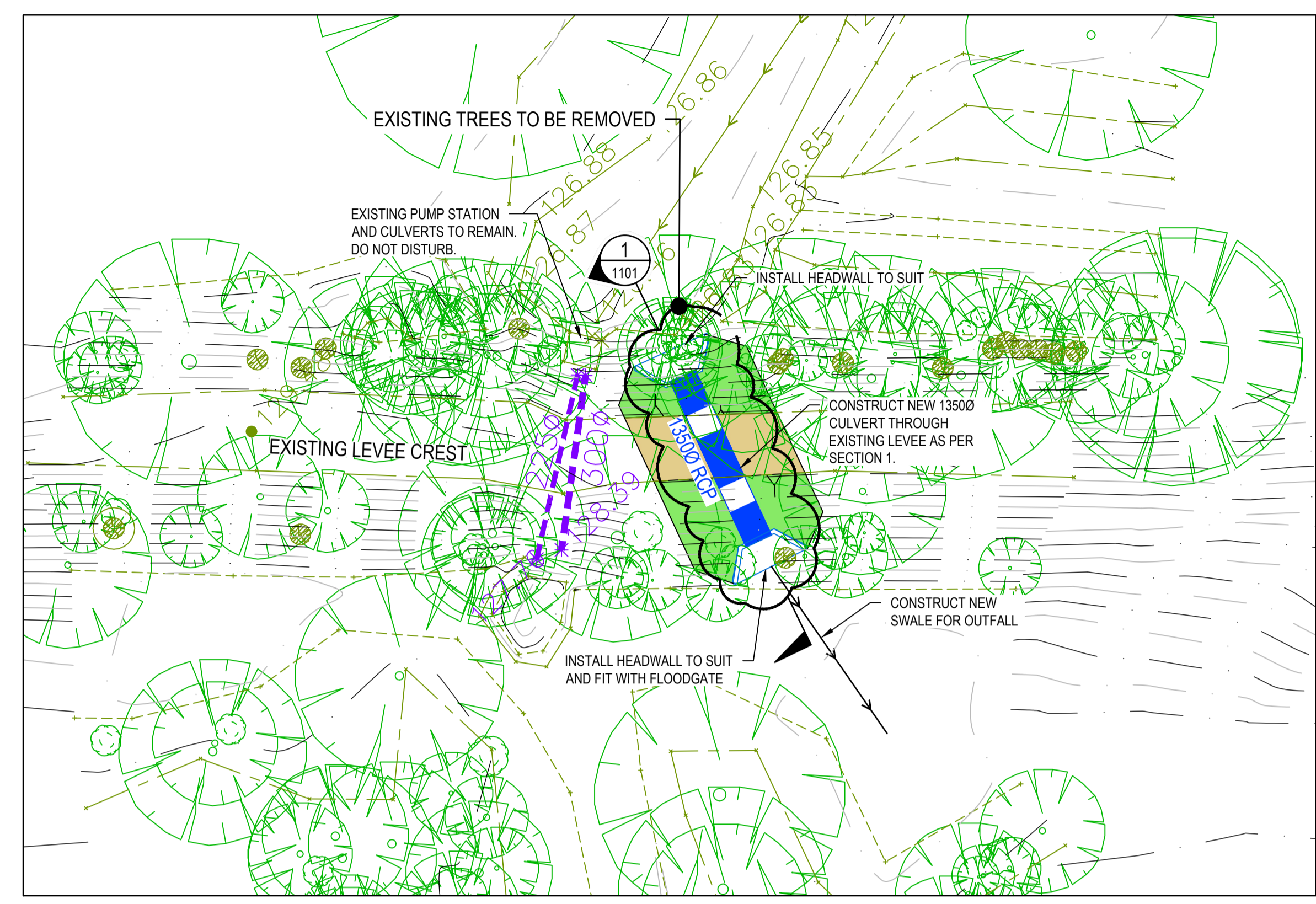
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29/11/2023
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FEDERATION COUNCIL
MORUNDAH FLOOD MITIGATION DESIGN
WIDGIEWA STREET
MORUNDAH, NSW 2700
PRELIMINARY DESIGN
BUND LAYOUT PLAN AND LONGITUDINAL SECTION
SHEET 3 OF 3

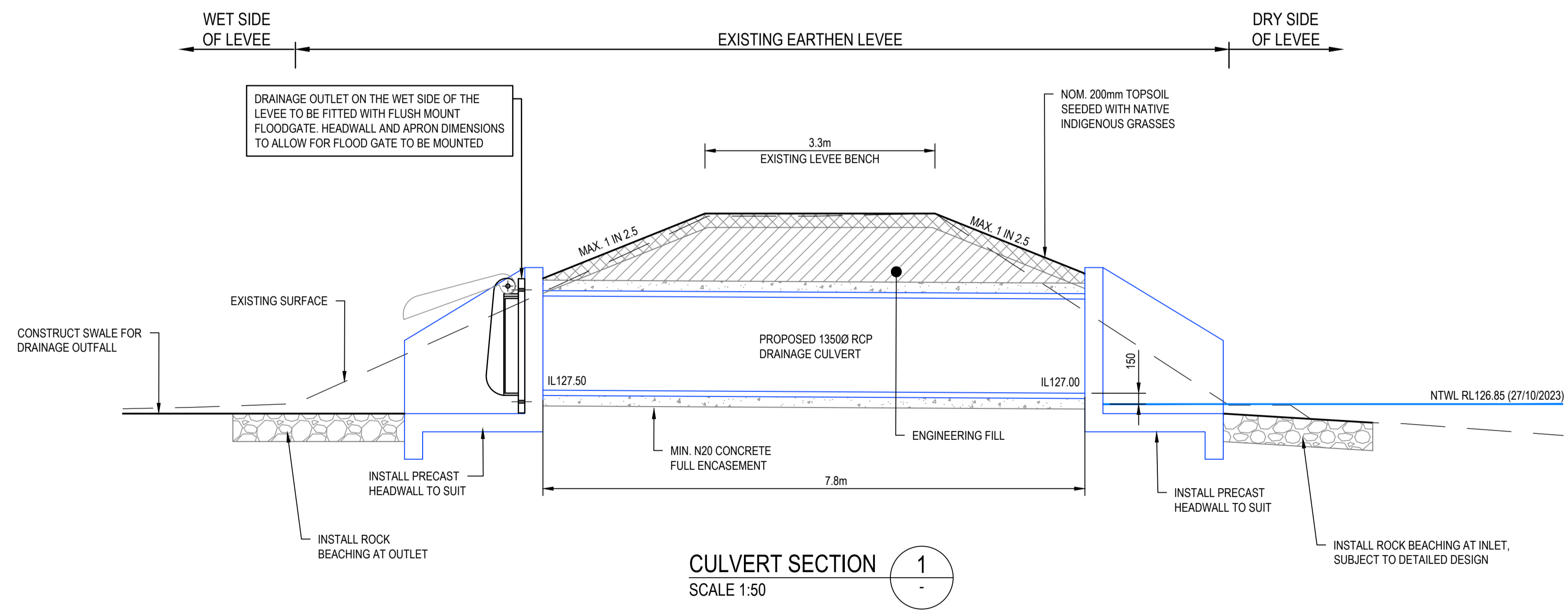
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DSE23030-1002			2

DATE PLOTTED: 1 December 2023 3:28 PM BY: AARON WARD

LEGEND	
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	EXISTING CONTOURS MAJOR & LABEL
	EXISTING CONTOURS MINOR & LABEL
	PROPOSED CONTOURS MAJOR & LABEL
	PROPOSED CONTOURS MINOR LABEL
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INSET A
SCALE 1:200 0100

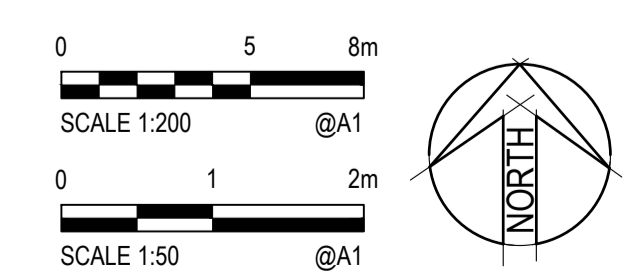


CULVERT SECTION 1
SCALE 1:50

PRELIMINARY DESIGN
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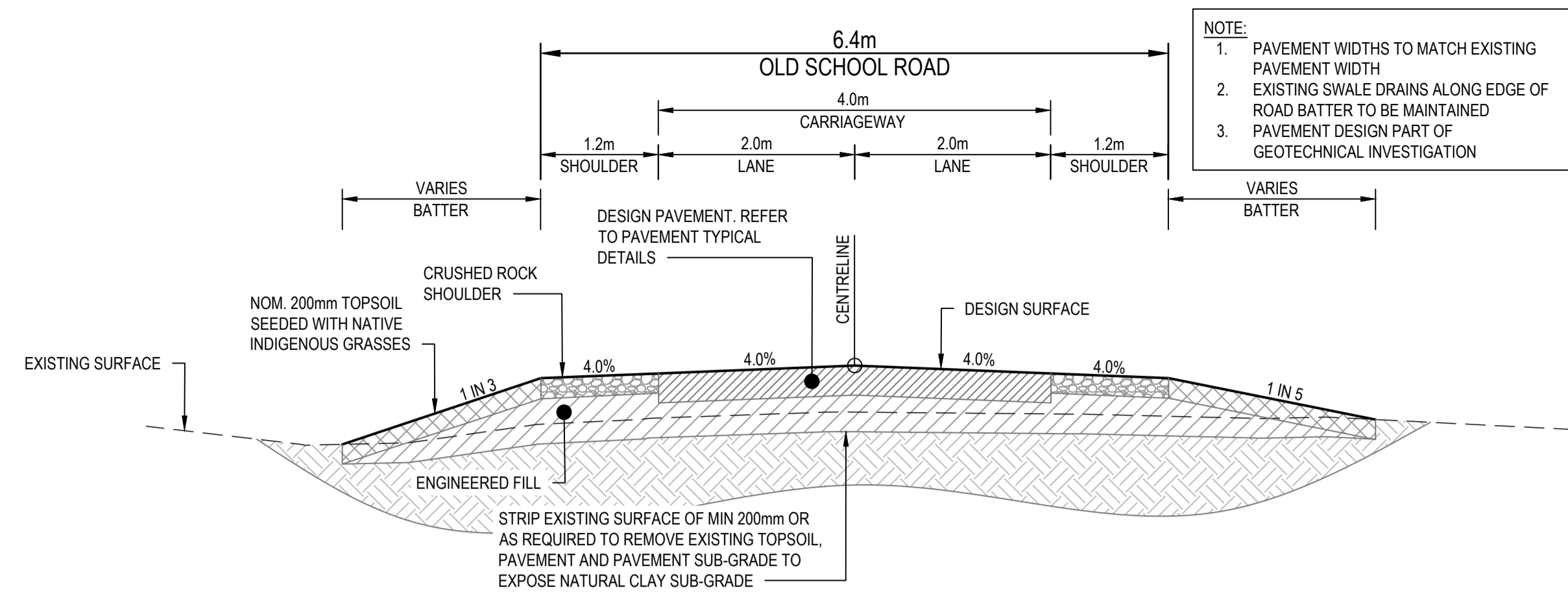
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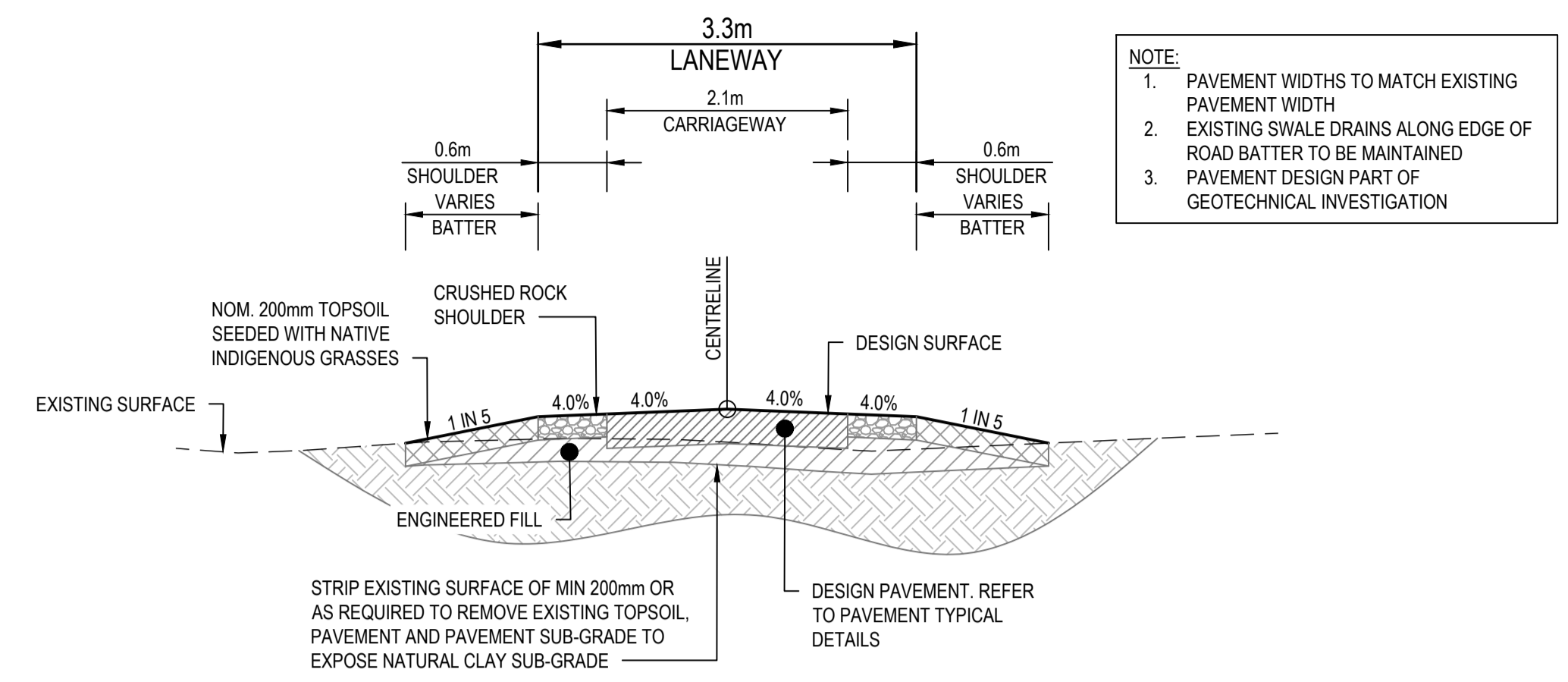
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APPROVED	ED HENTY	

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MORUNDAH FLOOD MITIGATION DESIGN
WIDGIEWA STREET
MORUNDAH, NSW 2700
PRELIMINARY DESIGN
LEVEE CULVERT LAYOUT PLAN
AND SECTION

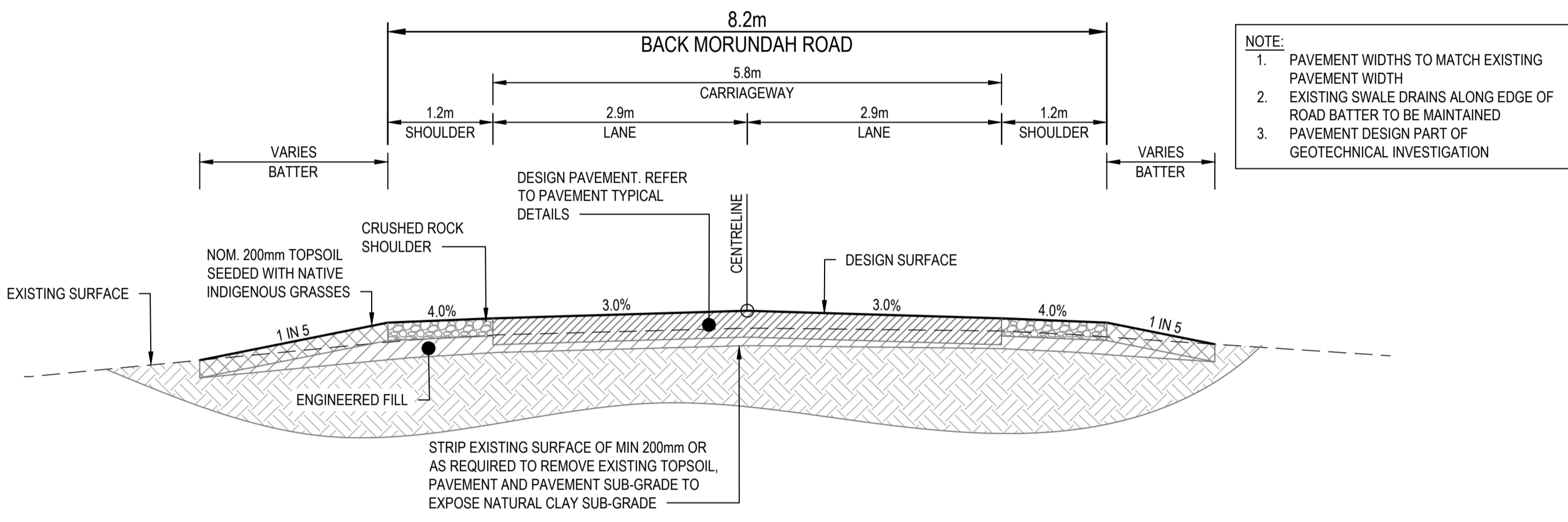
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DSE23030-1003			2



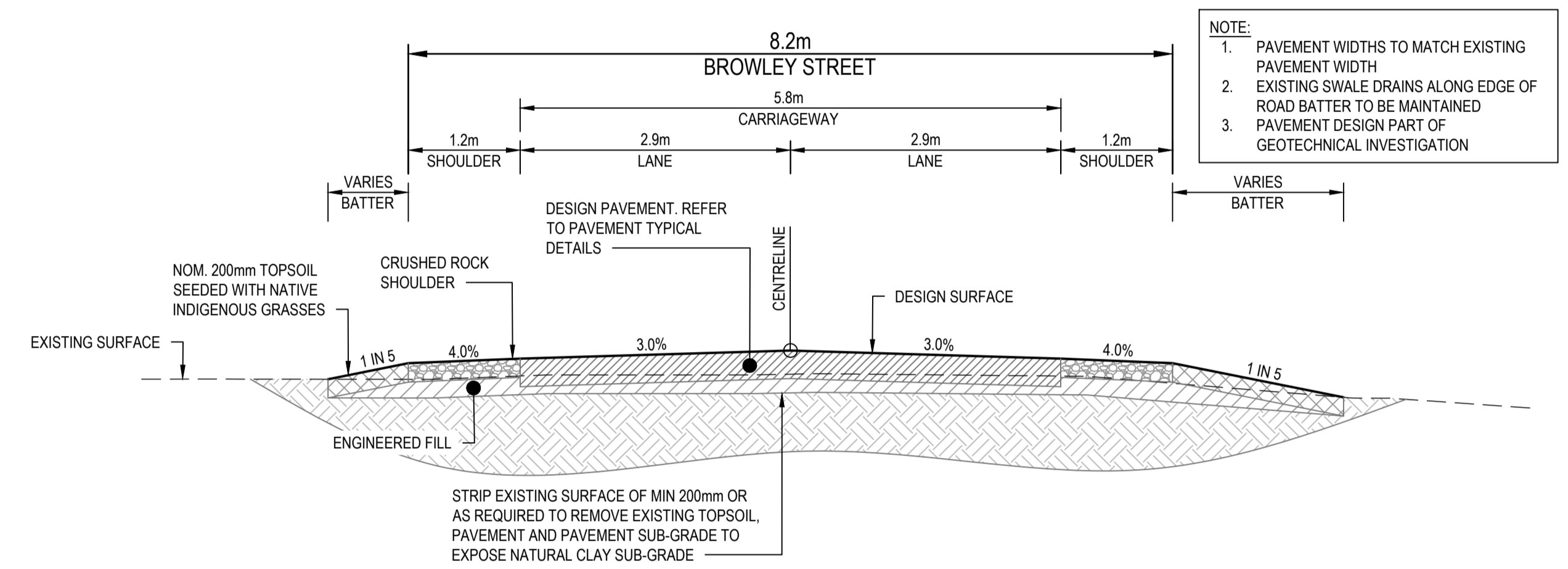
RS03 - OLD SCHOOL ROAD TYPICAL SECTION
SCALE 1:50



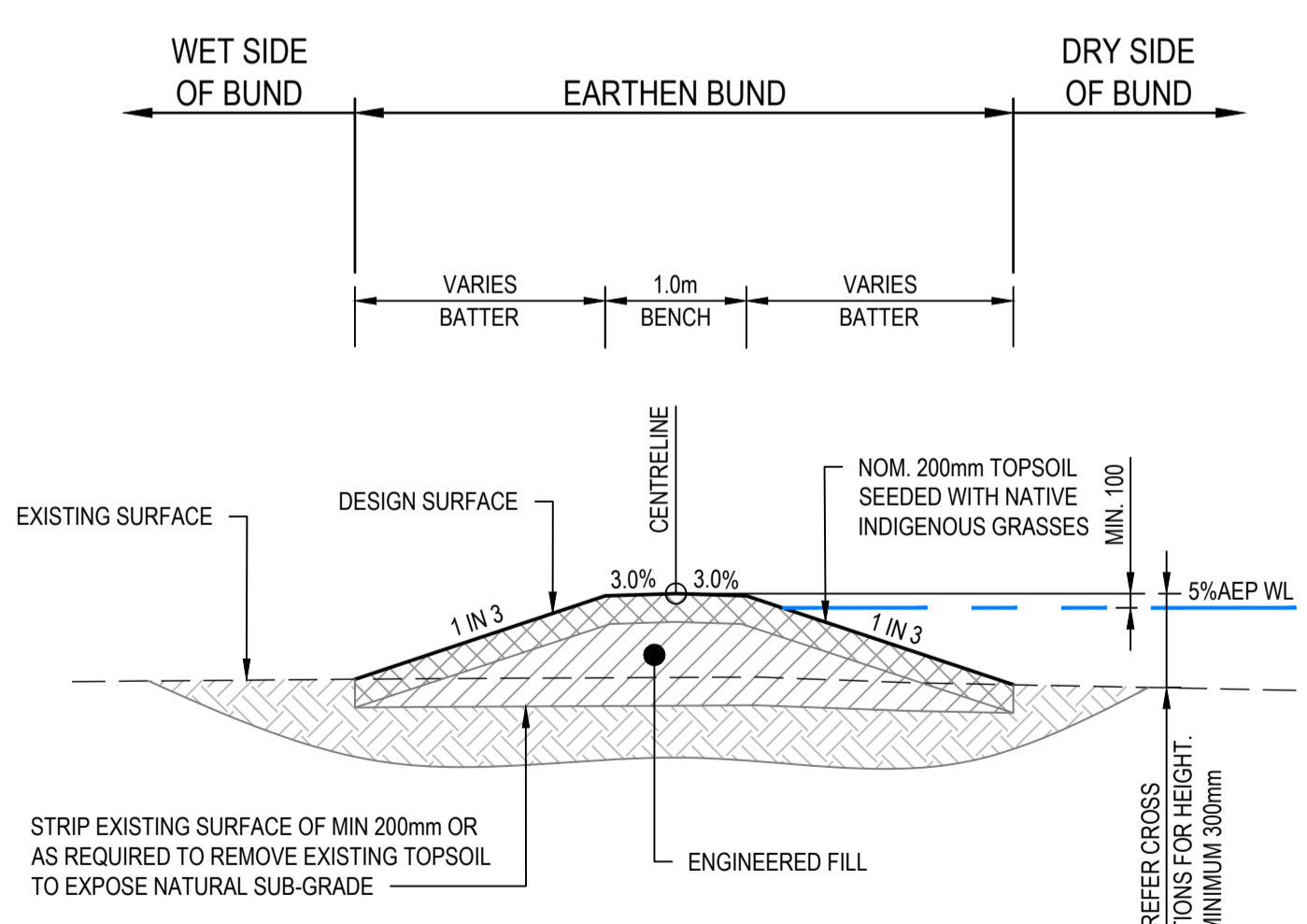
RS04 - LANEWAY TYPICAL SECTION
SCALE 1:50



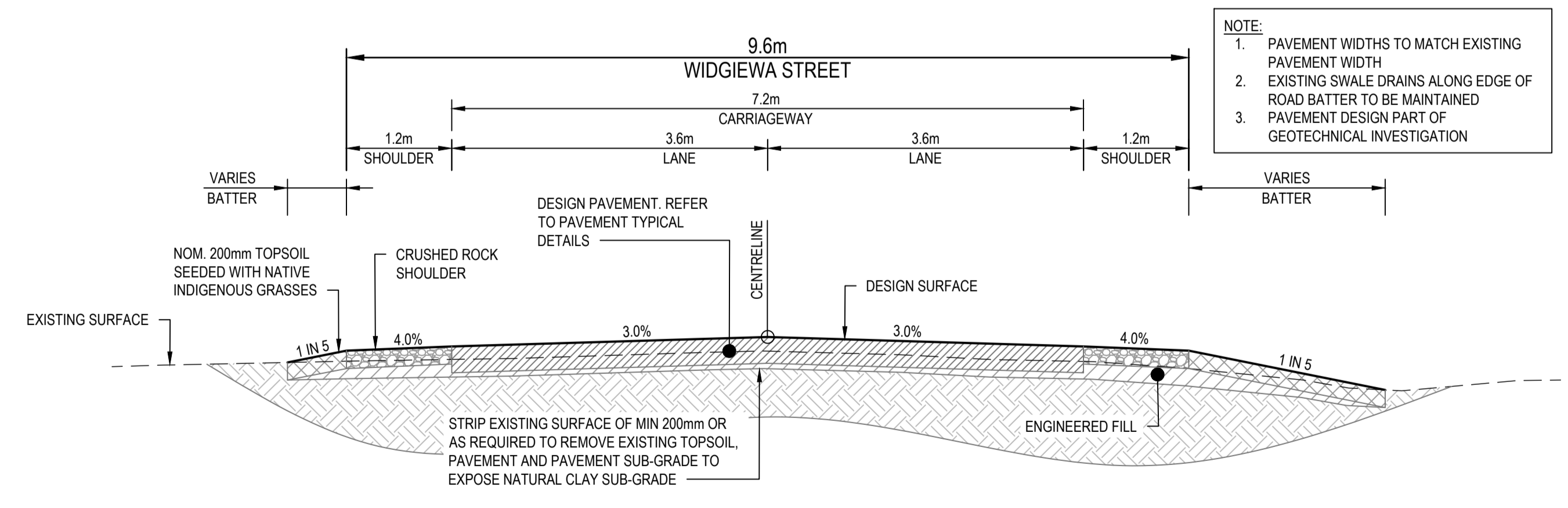
RS02 - BACK MORUNDAH ROAD TYPICAL SECTION
SCALE 1:50



RS05 - BROWLEY STREET TYPICAL SECTION
SCALE 1:50



RS01 - 5% AEP DEFLECTION BUND
SCALE 1:50

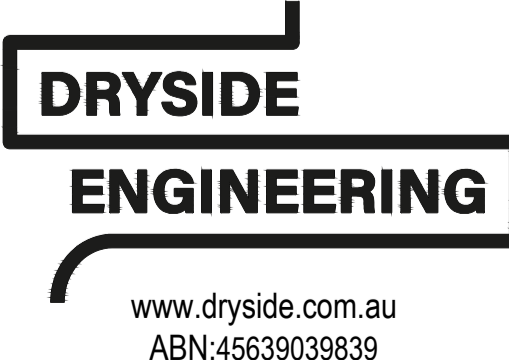


RS06 - WIDGIEWA STREET TYPICAL SECTION
SCALE 1:50

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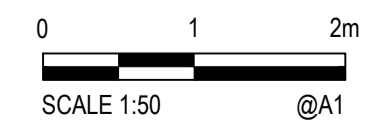


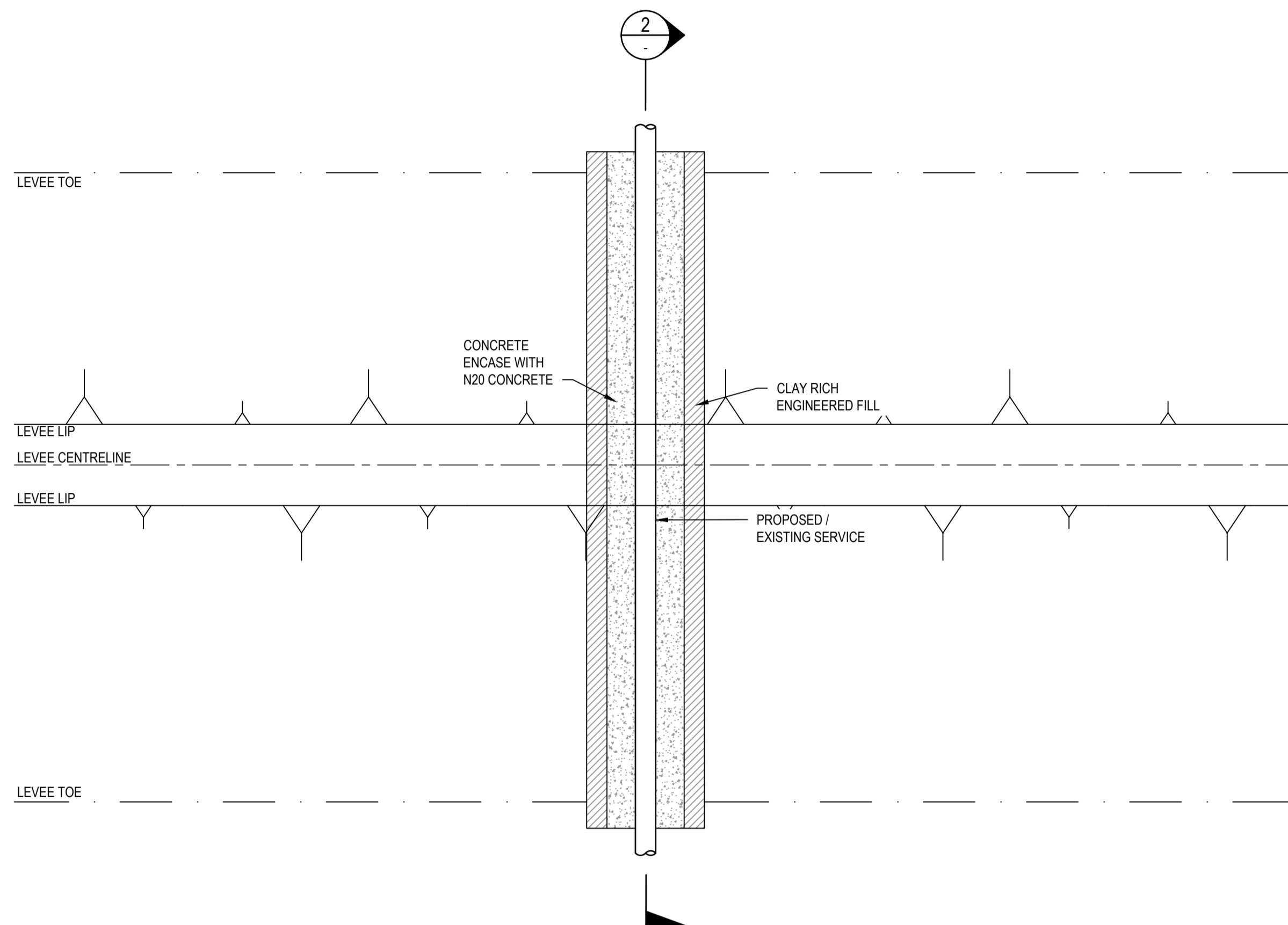
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29/11/2023
ED HENTY

FEDERATION COUNCIL
MORUNDAH FLOOD MITIGATION DESIGN
WIDGIEWA STREET
MORUNDAH, NSW 2700
PRELIMINARY DESIGN
TYPICAL DETAILS
SHEET 1 OF 2

DRAWN	DATE	SCALE	DATUM
A.WARD	26/10/2023	AS SHOWN	MAHD
DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/10/2023	GD2020	A1
DSE23030-1100			2

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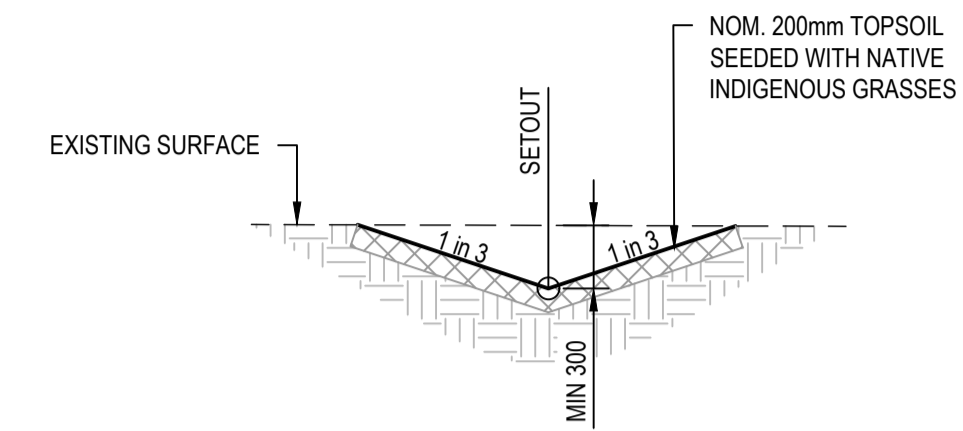


SERVICE LEVEE CROSSING DETAIL

SCALE 1:100

NOTES:

1. TELSTRA CROSSINGS TO BE UNDERTAKEN BY TELSTRA CONTRACTOR.
2. WATER CROSSINGS TO BE UNDERTAKEN BY APPROVED CONTRACTOR

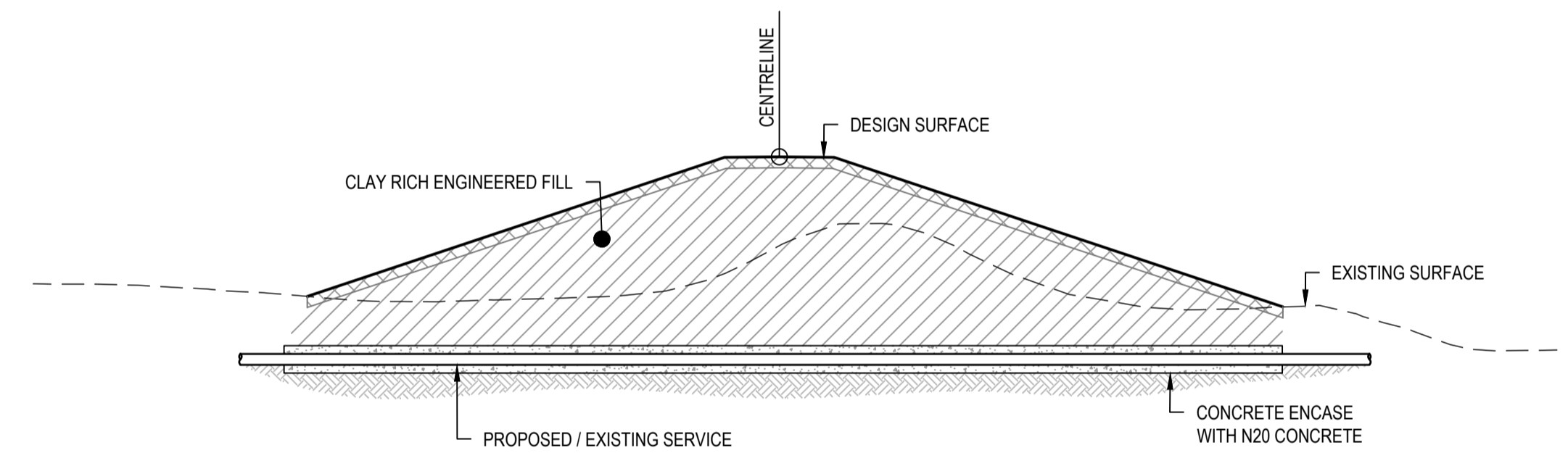


SWALE DRAIN TYPICAL SECTION

SCALE 1:50

NOTES:

1. IT IS UP TO THE CONTRACTOR TO ENSURE SUFFICIENT SEDIMENT CONTROL MEASURES DURING ESTABLISHMENT PHASE TO PREVENT EROSION AND LOSS OF TOPSOIL DOES NOT OCCUR
2. CONTRACTOR TO GRADE SWALES TO A DEFINED OUTLET POINT



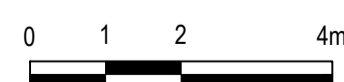
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PRELIMINARY DESIGN
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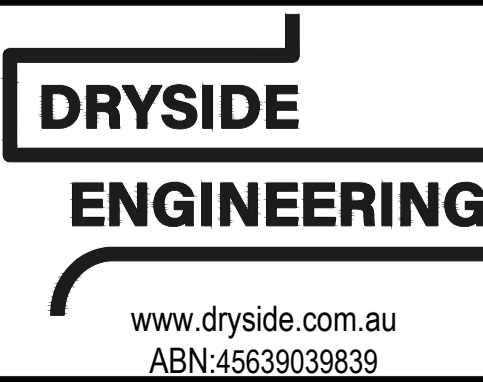


SCALE 1:100 @A1



SCALE 1:50 @A1

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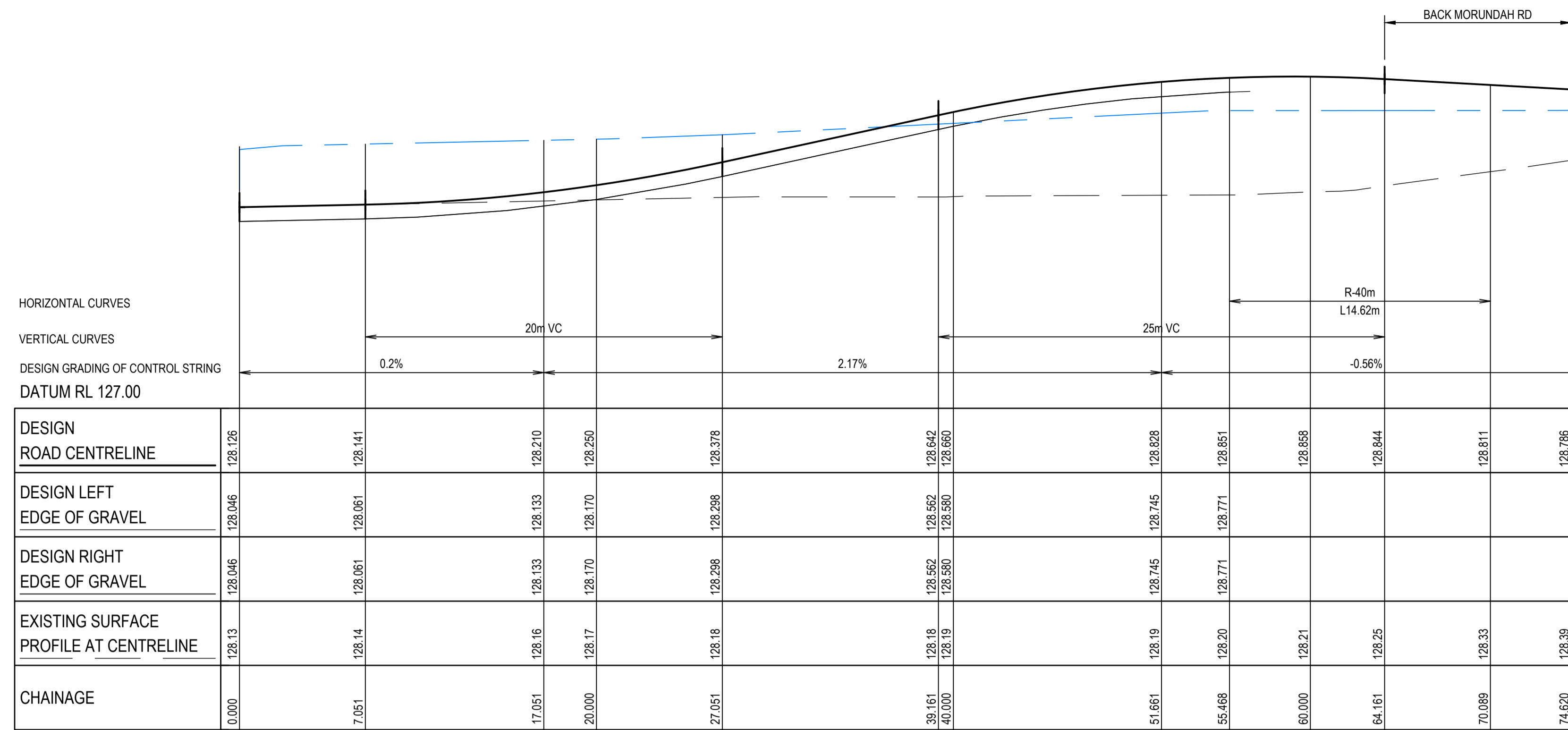
FEDERATION COUNCIL

MORUNDAH FLOOD MITIGATION DESIGN
WIDGIEWA STREET
MORUNDAH, NSW 2700
PRELIMINARY DESIGN
TYPICAL DETAILS
SHEET 2 OF 2

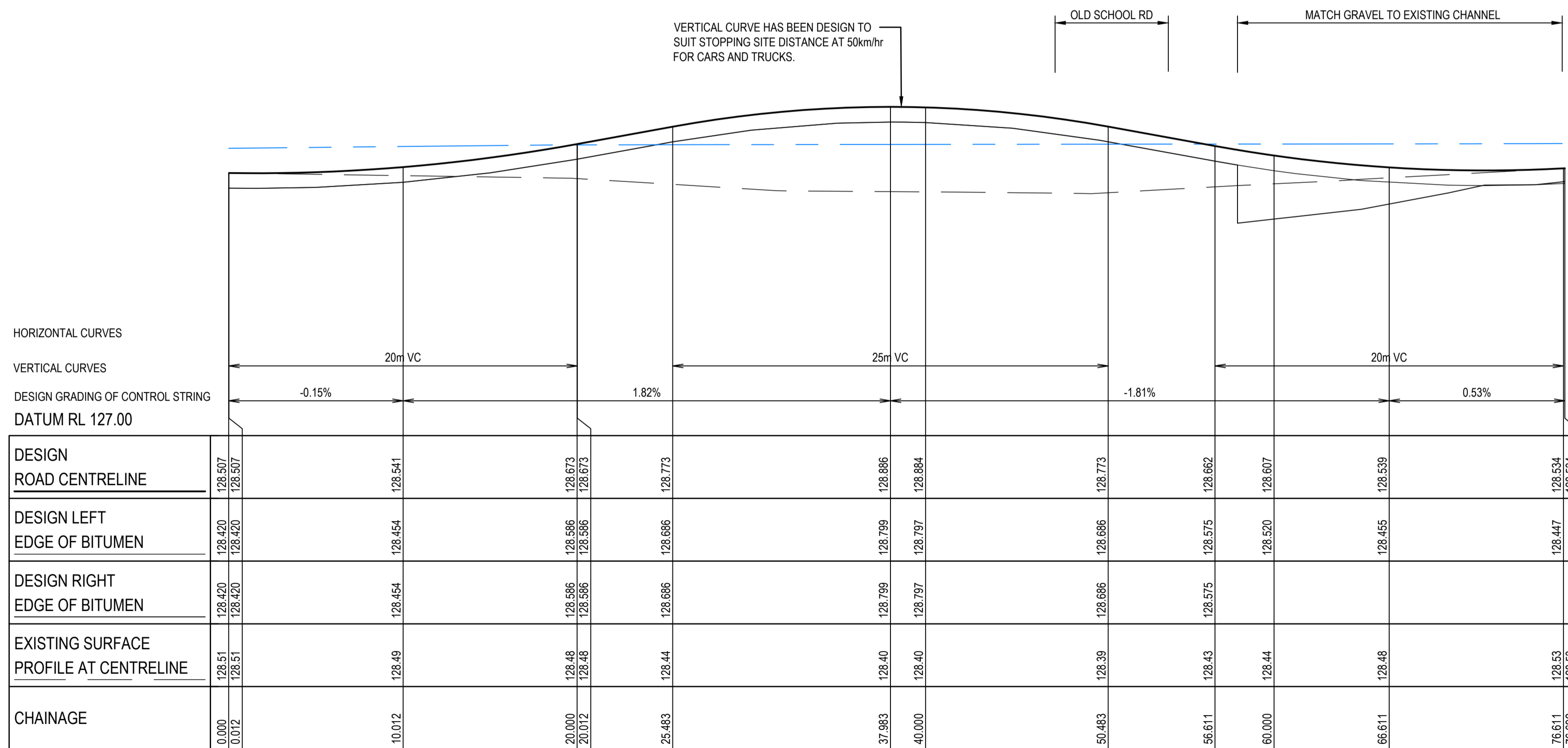
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A.WARD	26/10/2023	AS SHOWN	MAHD
DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/10/2023	GD2020	A1
DSE23030-1101			2

LEGEND - CROSS AND LONG SECTIONS

	FINISHED SURFACE PROFILE
	EXISTING SURFACE PROFILE
	5% AEP FLOOD PROFILE



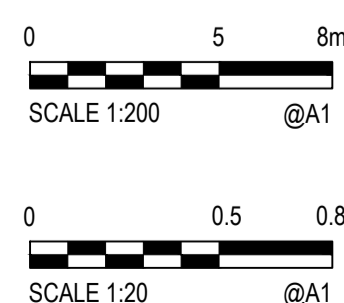
RS03 - LONGITUDINAL SECTION - OLD SCHOOL RD
SCALE H 1:200 V 1:20



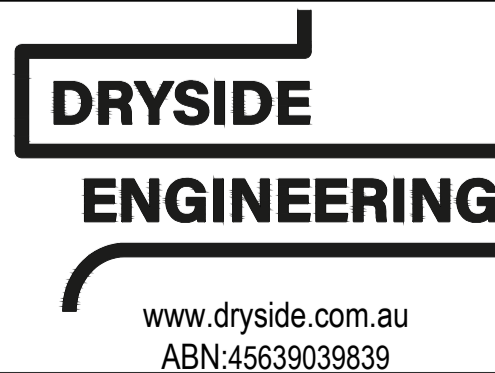
RS02 - LONGITUDINAL SECTION - BACK MORUNDAH RD
SCALE H 1:200 V 1:20

PRELIMINARY DESIGN
NOT TO BE USED FOR CONSTRUCTION PURPOSES

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1	-	NOT ISSUED AS PART OF DRAWING SET	-	-	-
REV	DATE	DESCRIPTION	DES	VER	APP



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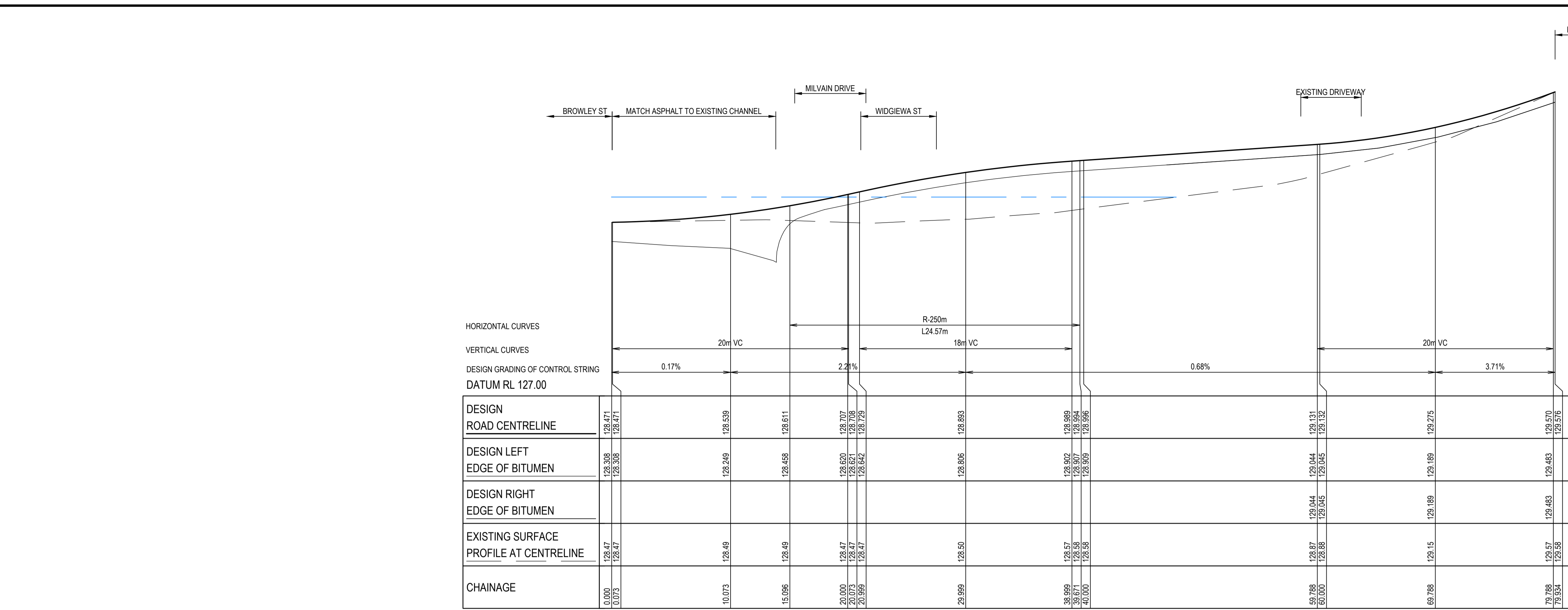
FEDERATION COUNCIL

MORUNDAH FLOOD MITIGATION DESIGN
WIDGIEWA STREET
MORUNDAH, NSW 2700
PRELIMINARY DESIGN
ROAD LONGITUDINAL SECTIONS
SHEET 1 OF 3

DRAWN A.WARD	DATE 26/10/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 26/10/2023	PROJECTION GD2020	SHEET SIZE A1
DSE23030-1200			2

DATE PLOTTED: 1 December 2023 3:28 PM BY: AARON WARD

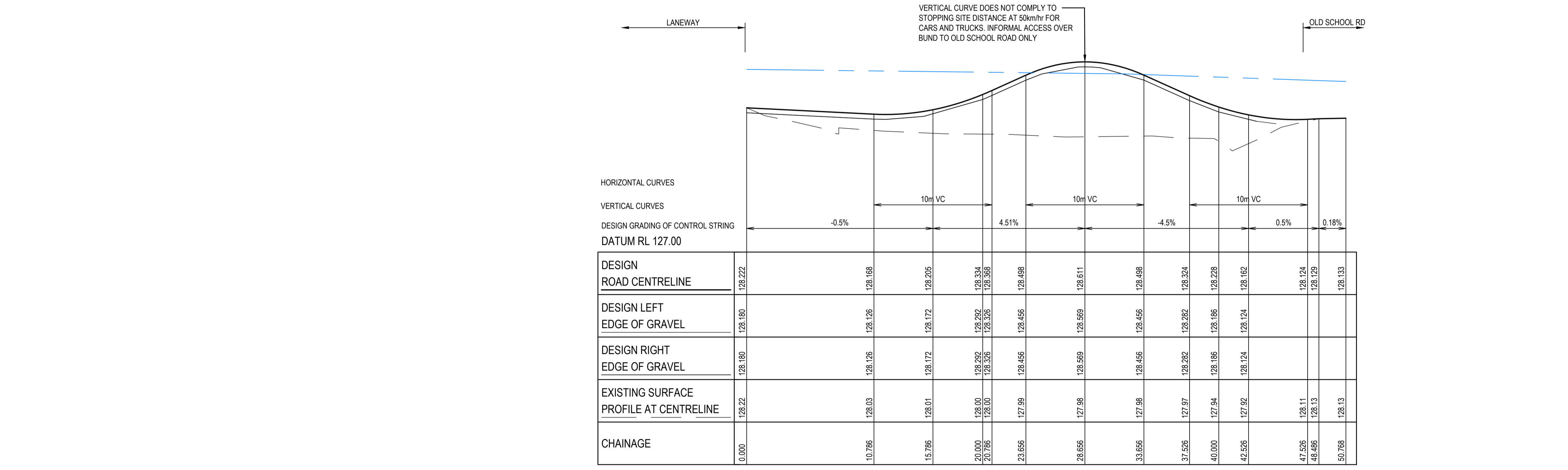
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RS05 - LONGITUDINAL SECTION - BROWLEY ST
 SCALE H 1:200 V 1:20

LEGEND - CROSS AND LONG SECTIONS

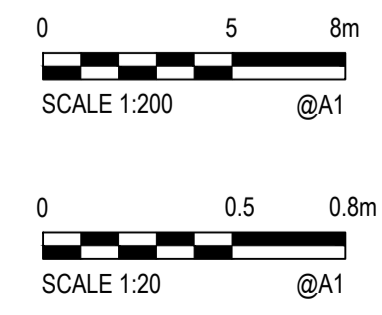
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	EXISTING SURFACE PROFILE
	5% AEP FLOOD PROFILE



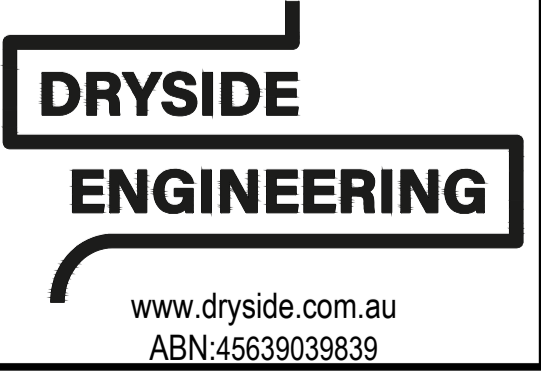
RS04 - LONGITUDINAL SECTION - LANEWAY
 SCALE H 1:200 V 1:20

PRELIMINARY DESIGN
 NOT TO BE USED FOR CONSTRUCTION PURPOSES

REV	DATE	DESCRIPTION	DES	VER	APP
2	01/12/2023	PRELIMINARY ISSUE	AW	EH	-
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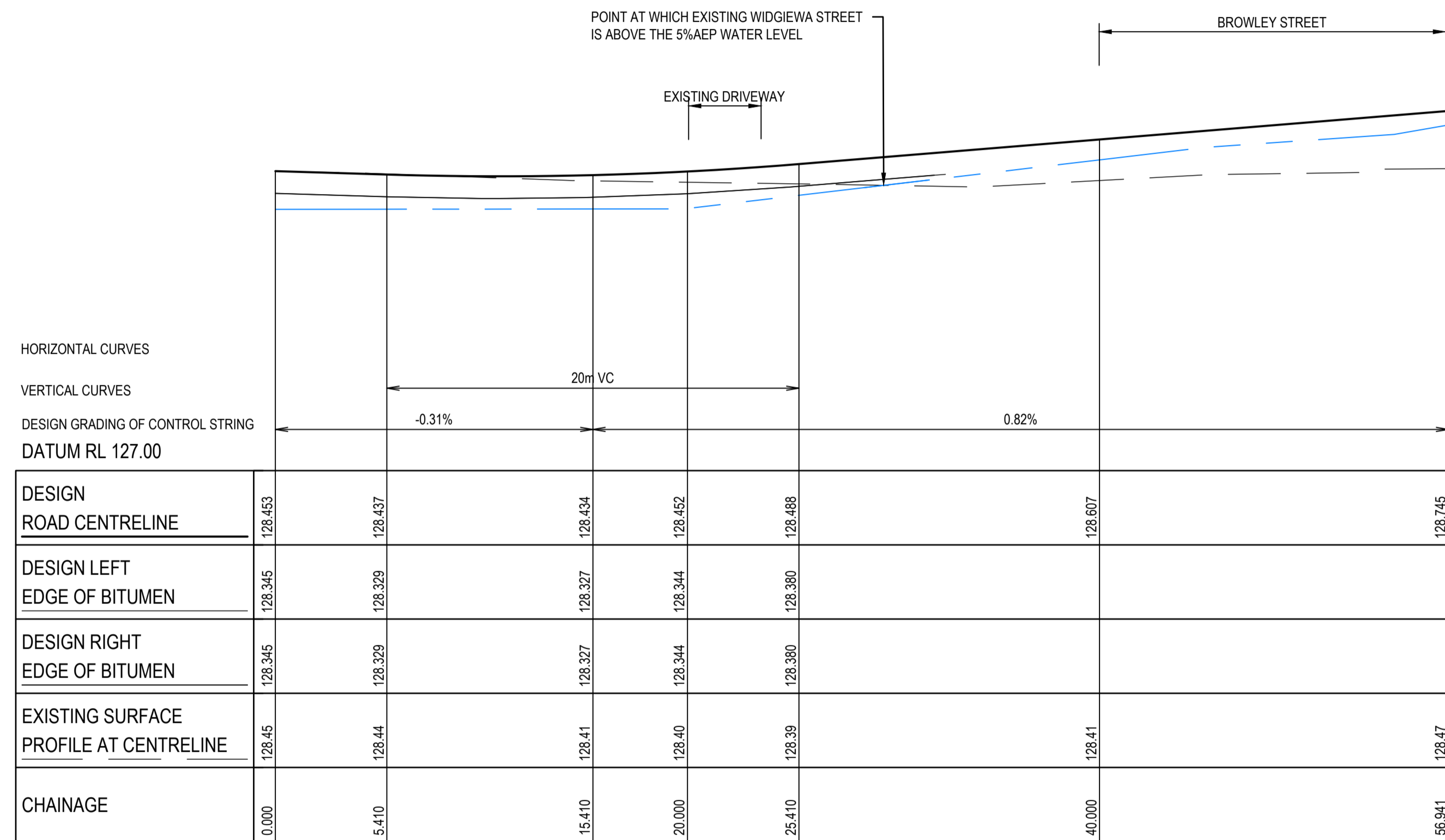
FEDERATION COUNCIL
 MORUNDAH FLOOD MITIGATION DESIGN
 WIDGIEWA STREET
 MORUNDAH, NSW 2700
 PRELIMINARY DESIGN
 ROAD LONGITUDINAL SECTIONS
 SHEET 2 OF 3

DRAWN A.WARD	DATE 26/10/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 26/10/2023	PROJECTION GD2020	SHEET SIZE A1
DSE23030-1201			2

DATE PLOTTED: 1 December 2023 3:28 PM BY: AARON WARD

LEGEND - CROSS AND LONG SECTIONS

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	EXISTING SURFACE PROFILE
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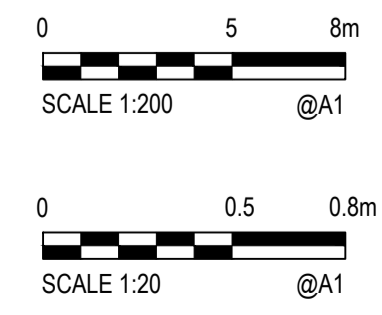


RS06 - LONGITUDINAL SECTION - WIDGIEWA ST
SCALE H 1:200 V 1:20

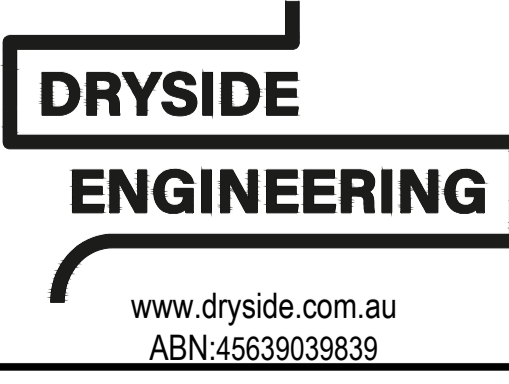
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NOT TO BE USED FOR CONSTRUCTION PURPOSES

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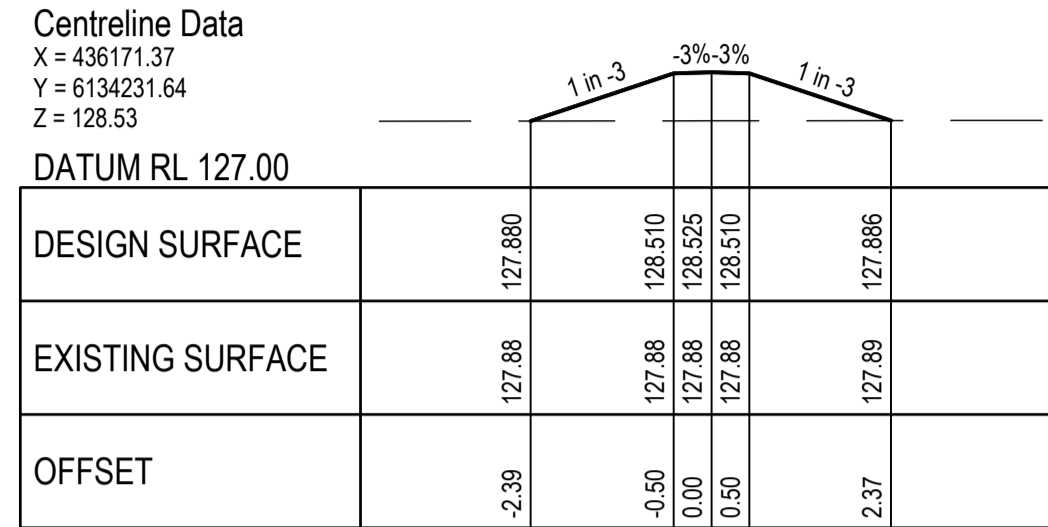


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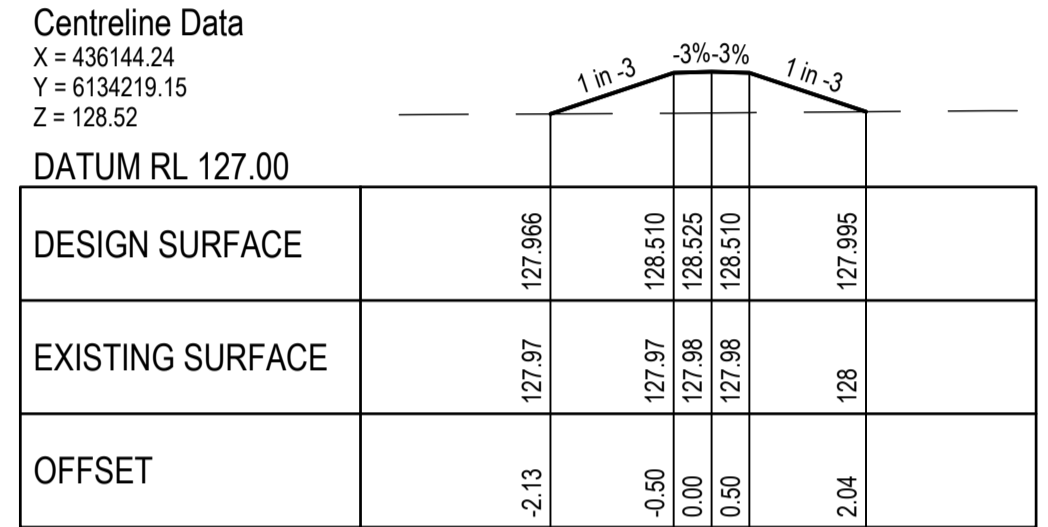
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MORUNDAH FLOOD MITIGATION DESIGN
WIDGIEWA STREET
MORUNDAH, NSW 2700
PRELIMINARY DESIGN
ROAD LONGITUDINAL SECTIONS
SHEET 3 OF 3

DRAWN	DATE	SCALE	DATUM
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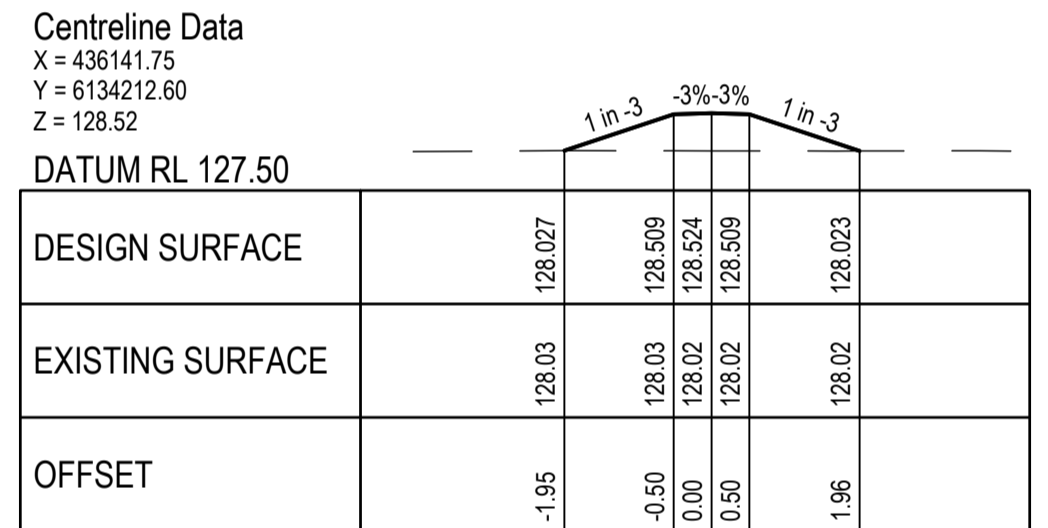
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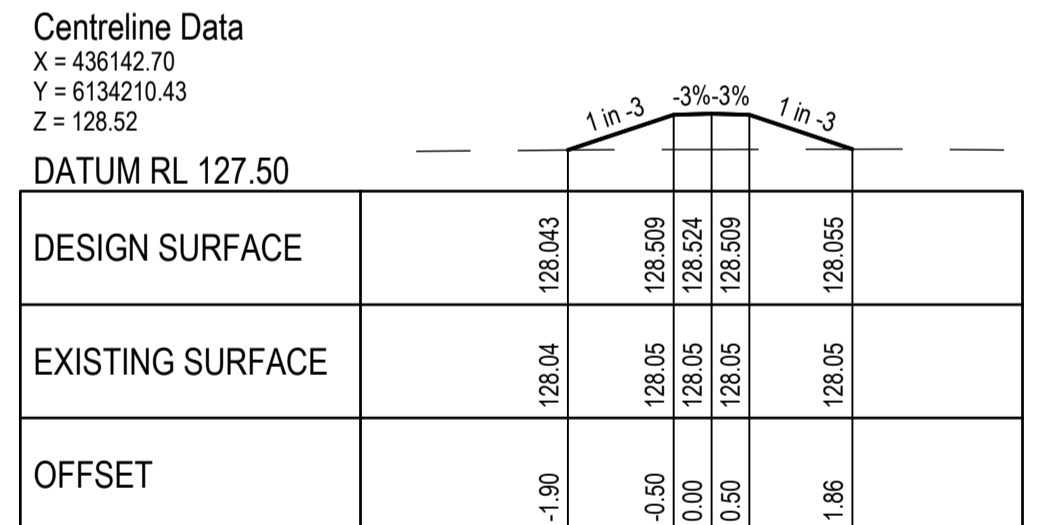
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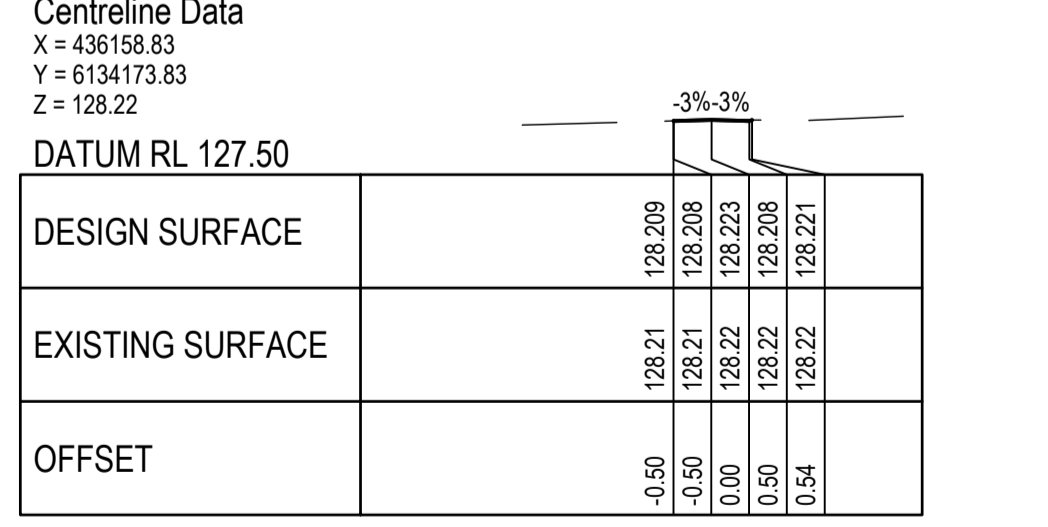
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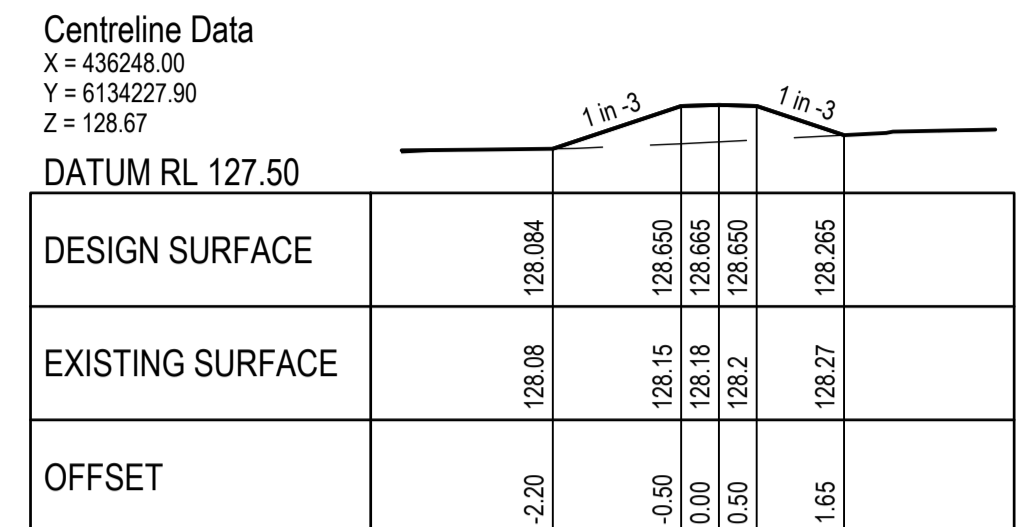
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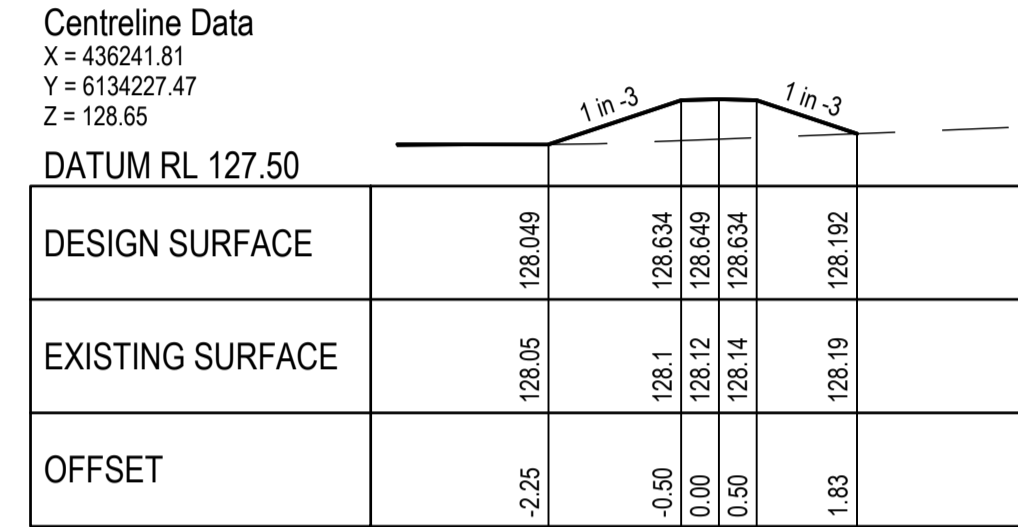
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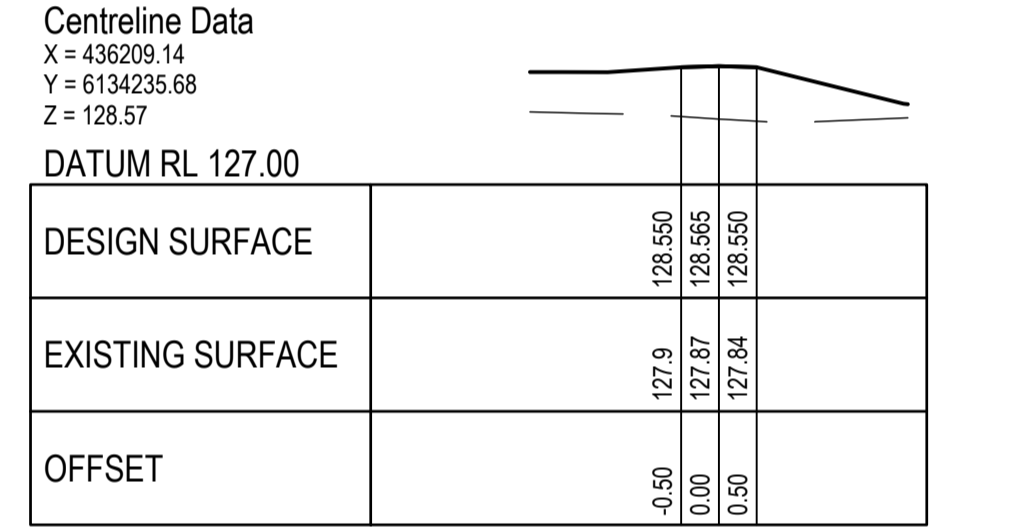
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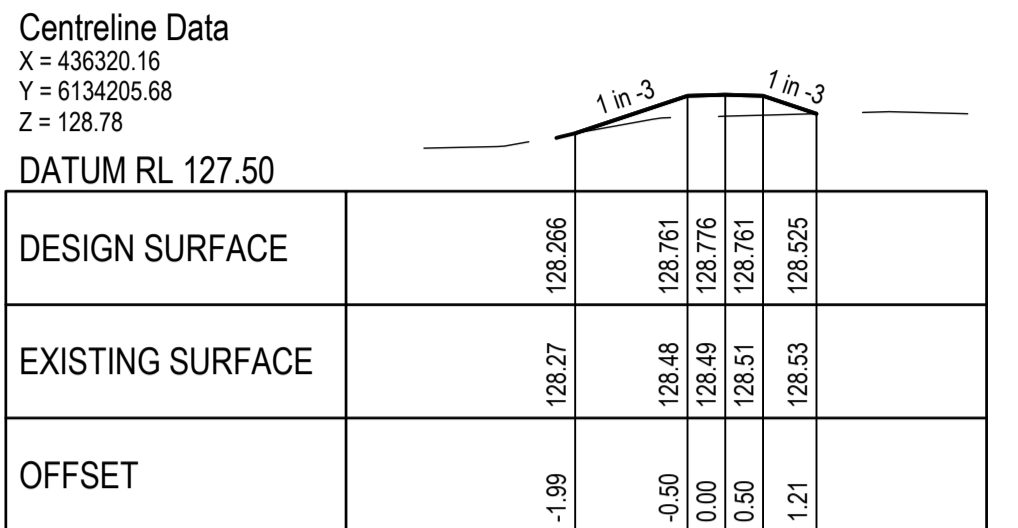
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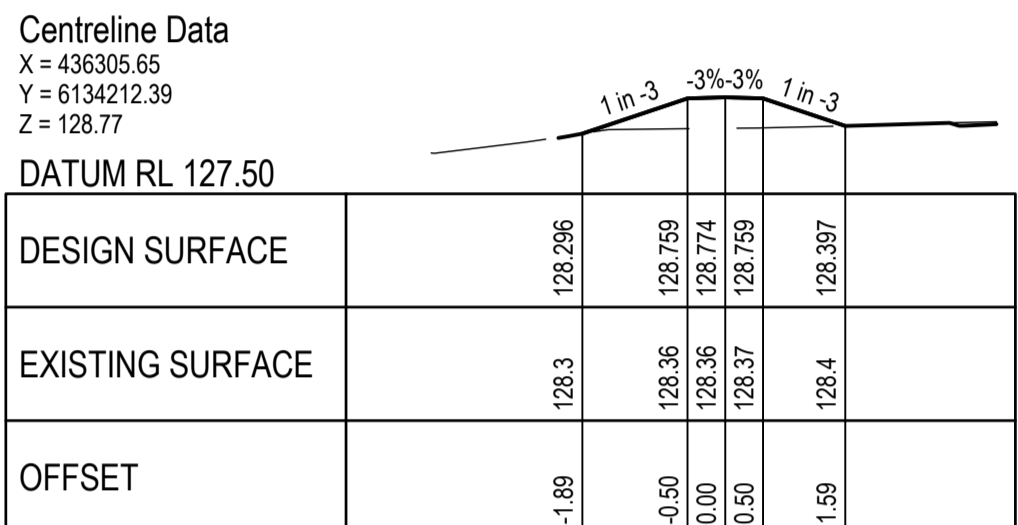
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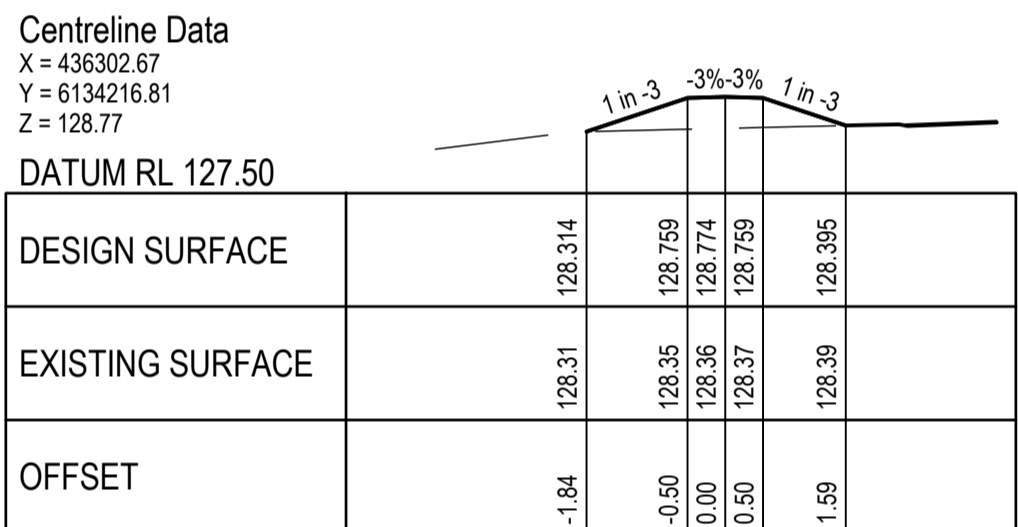
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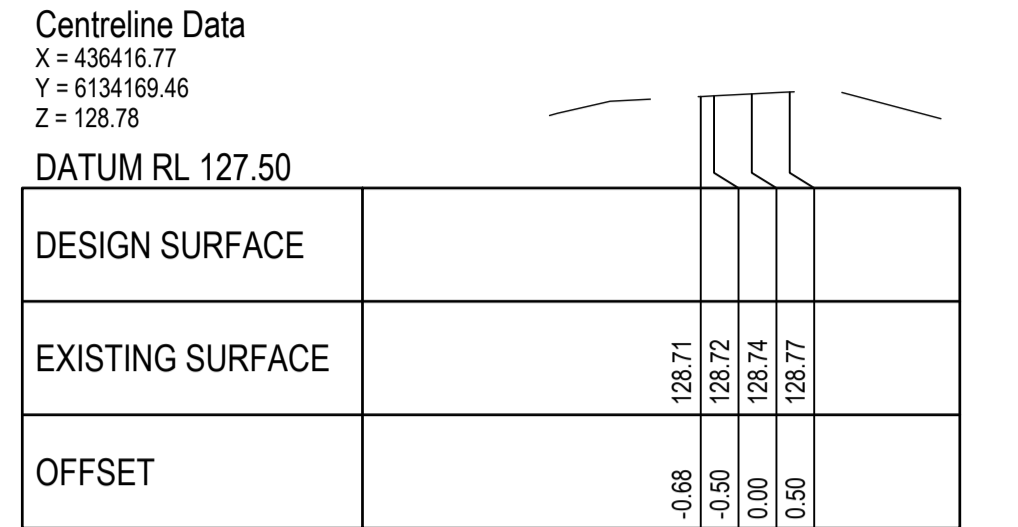
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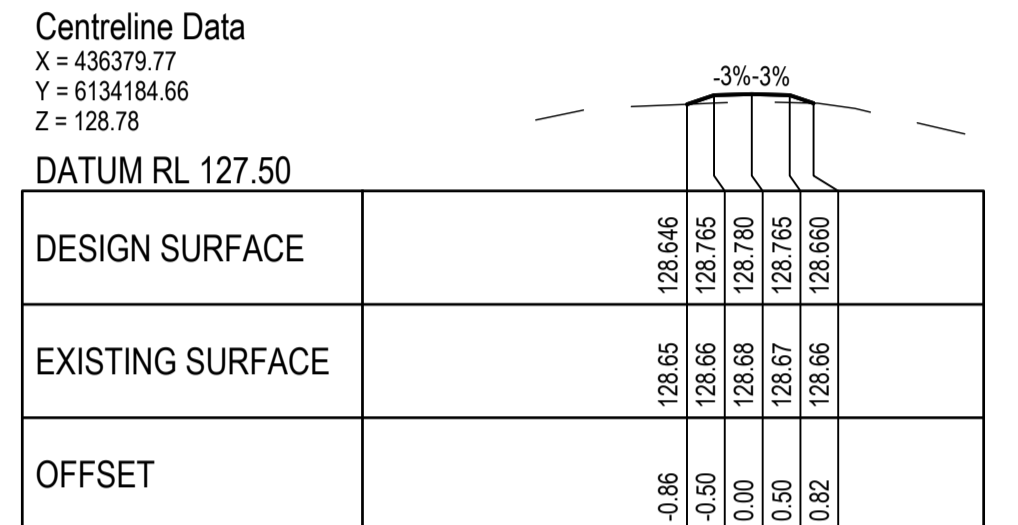
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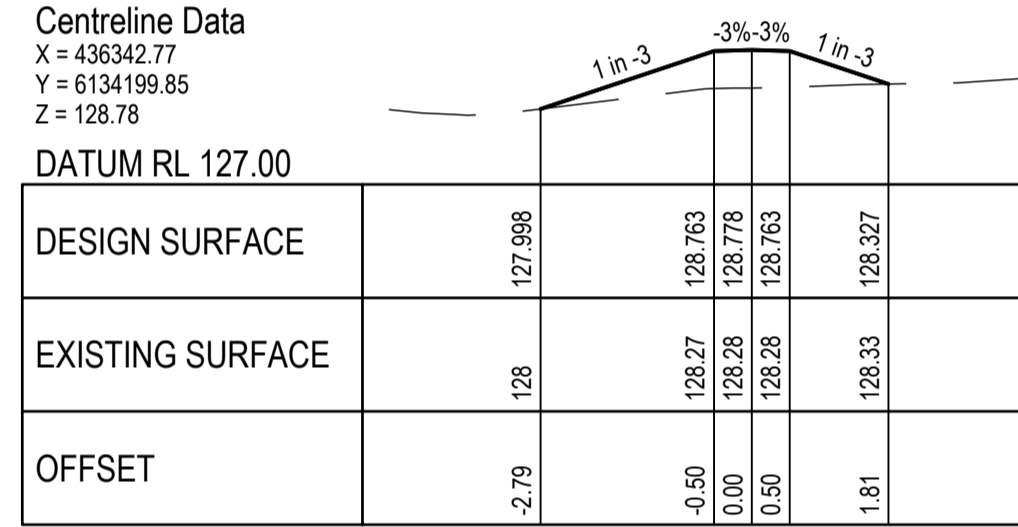
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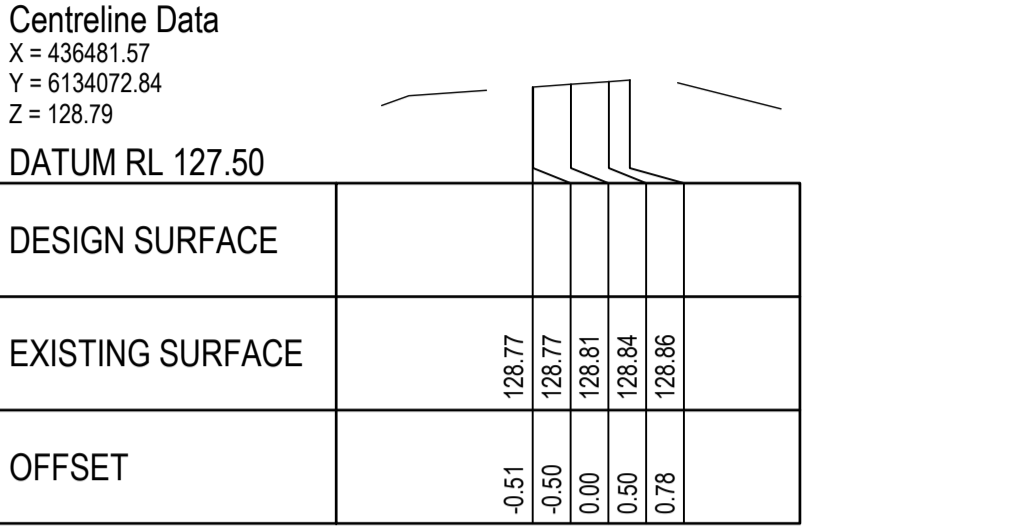
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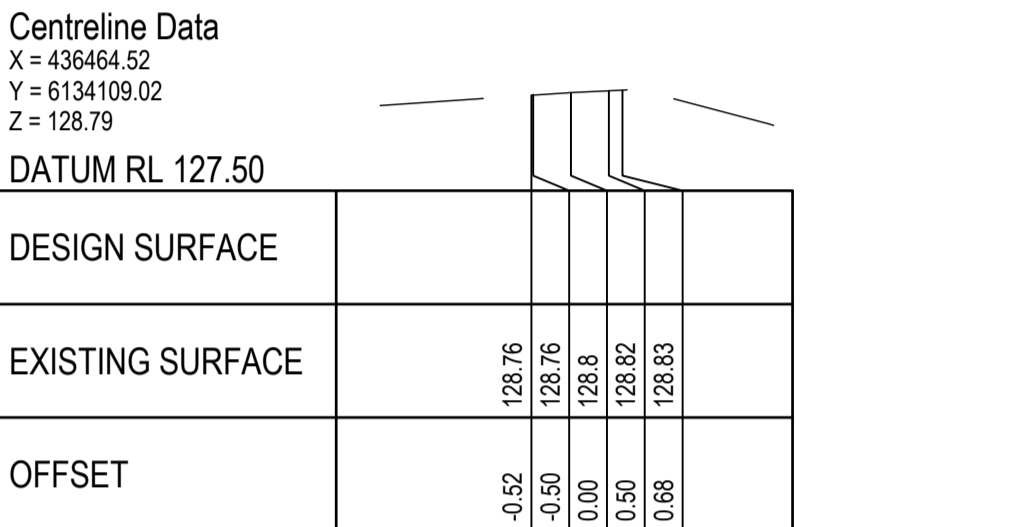
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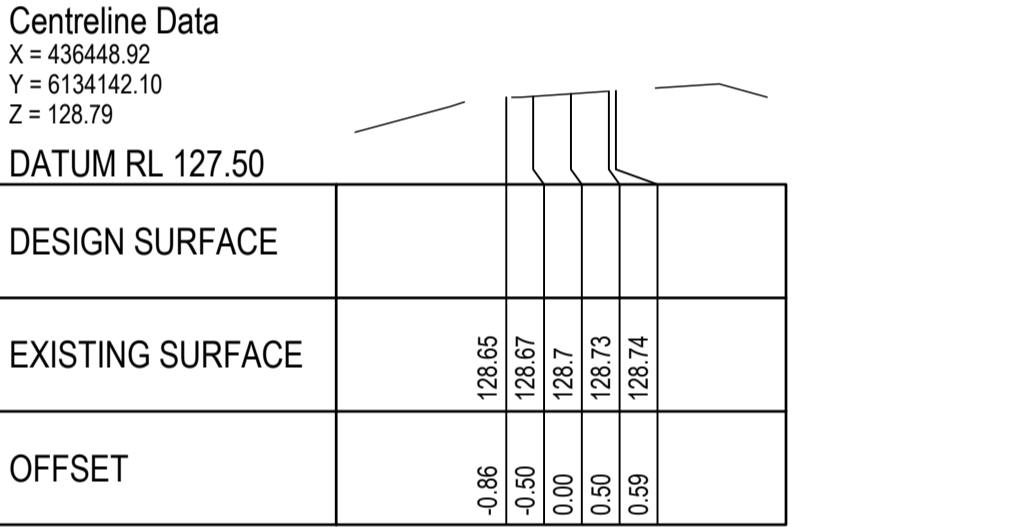
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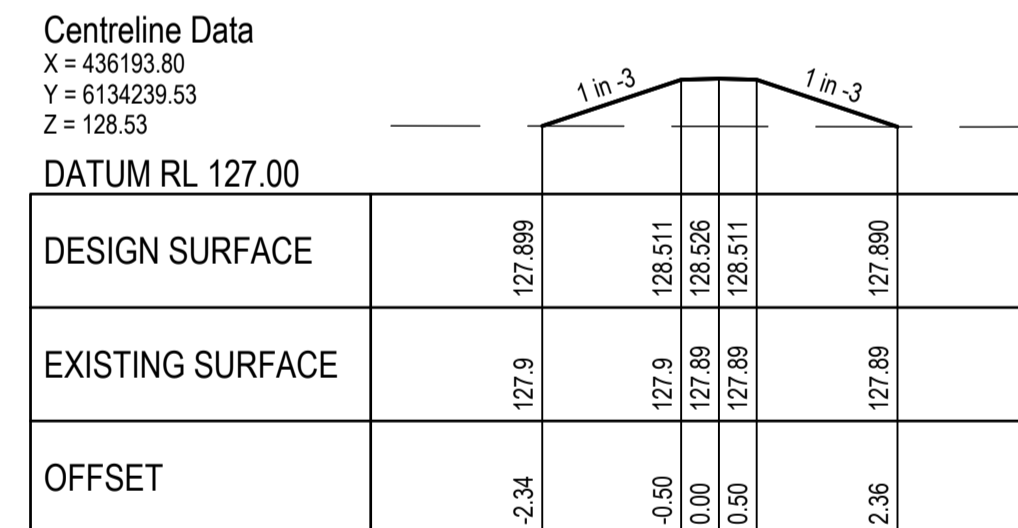
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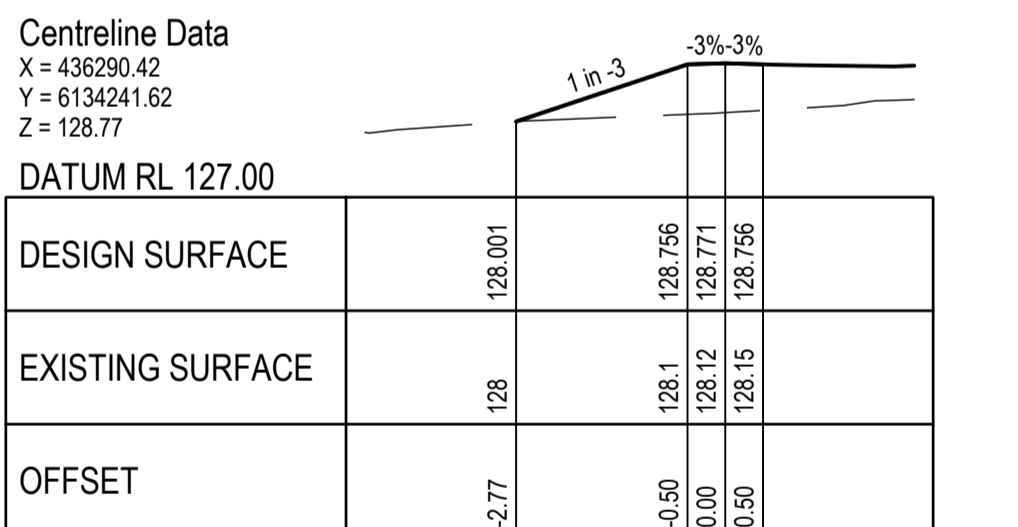
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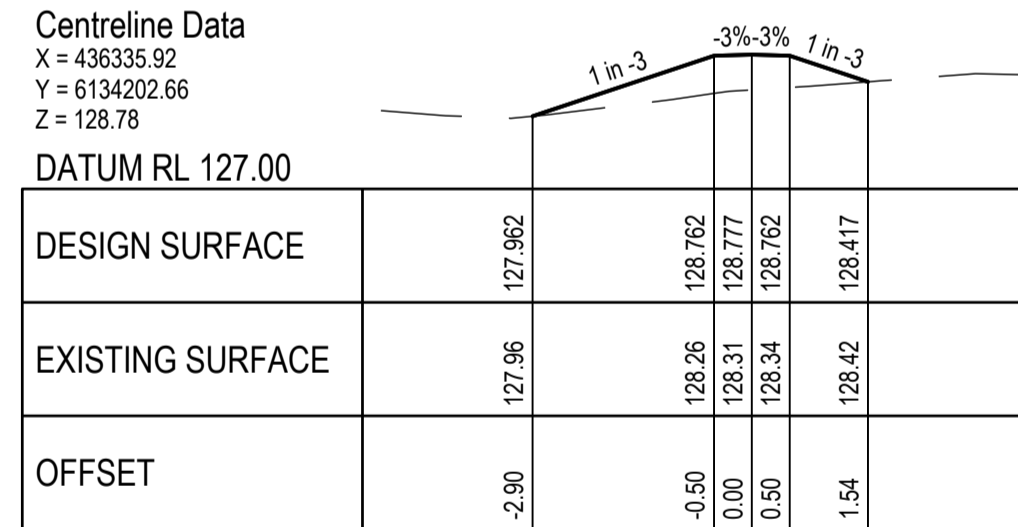
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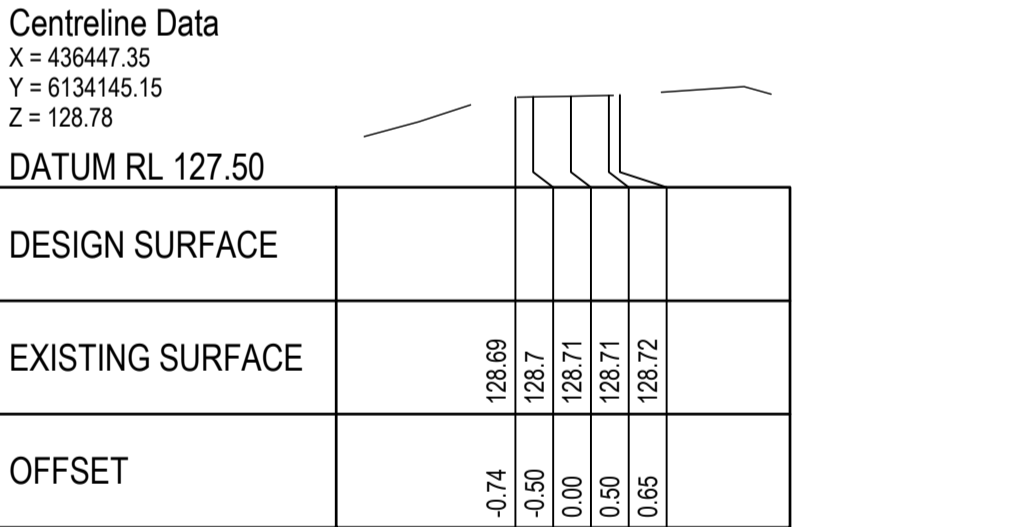
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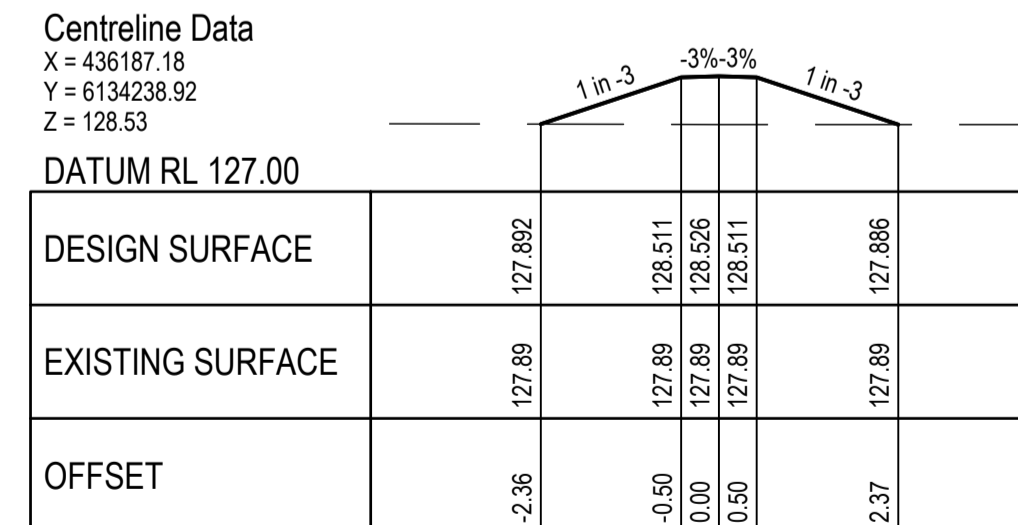
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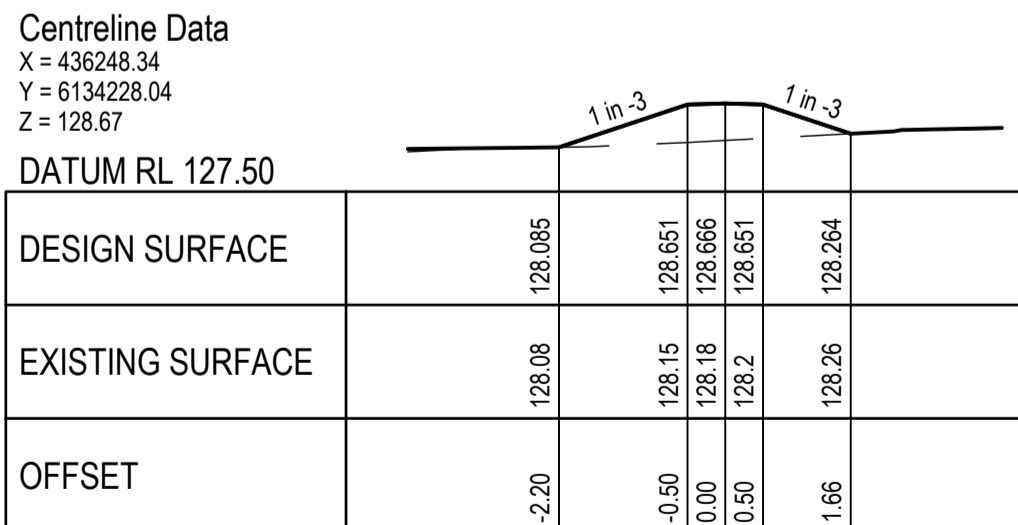
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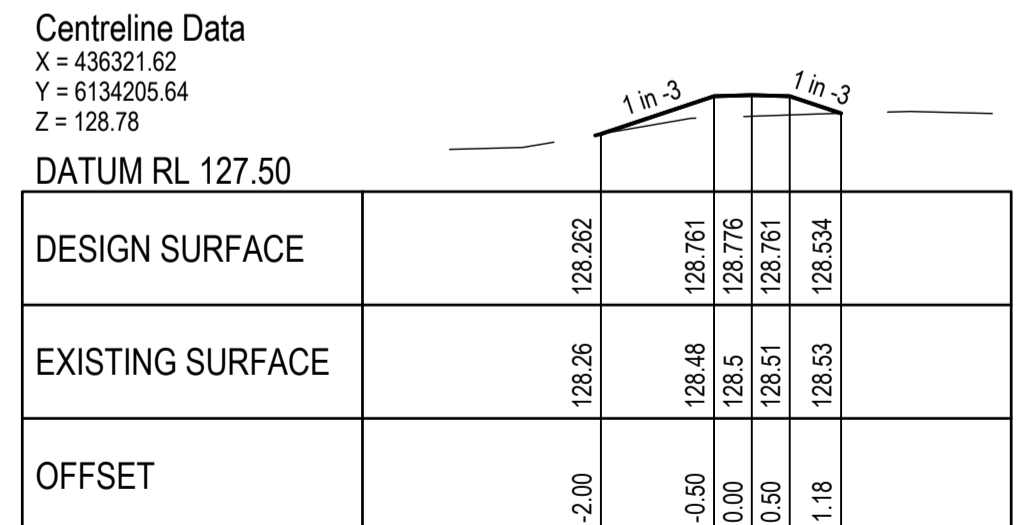
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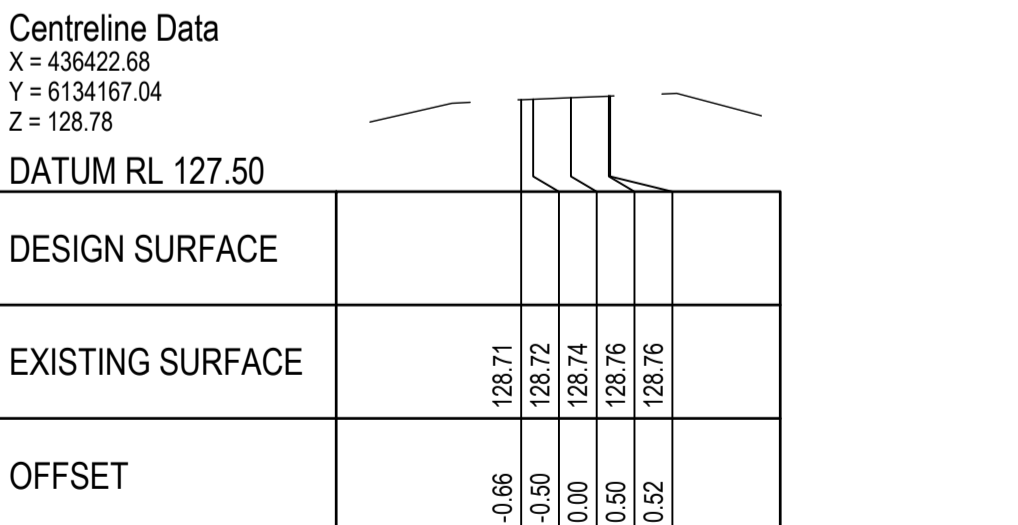
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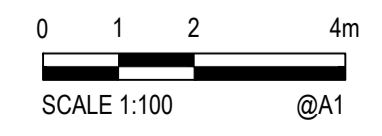
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BUND CROSS SECTIONS
SCALE H 1:100 V 1:100

PRELIMINARY DESIGN
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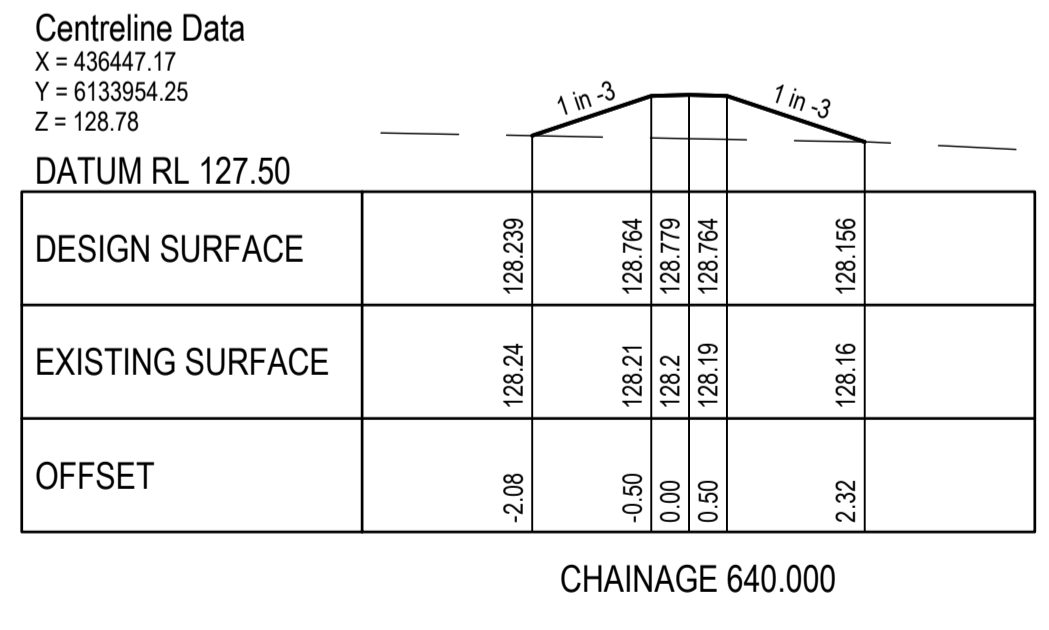
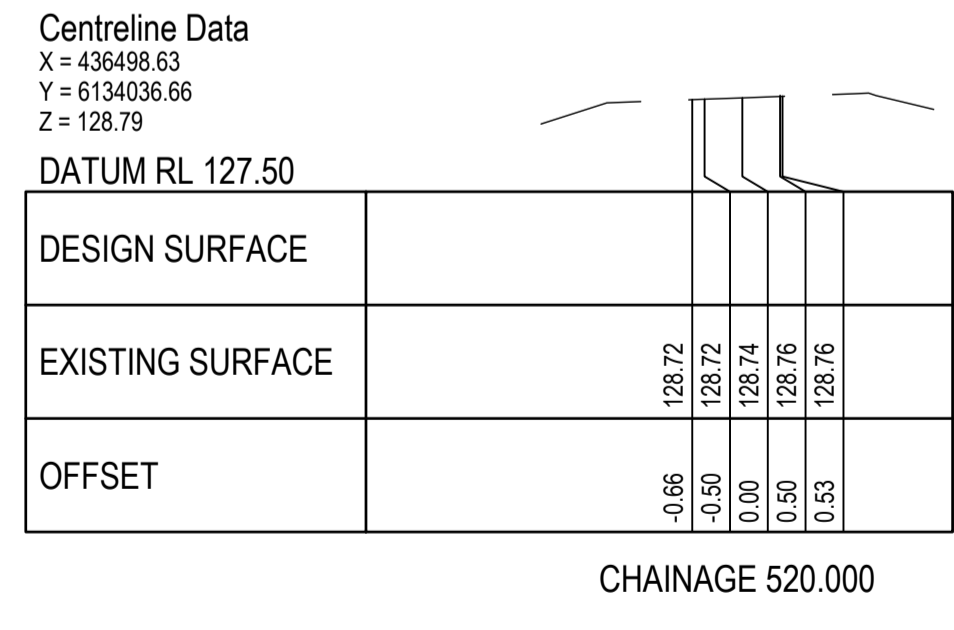
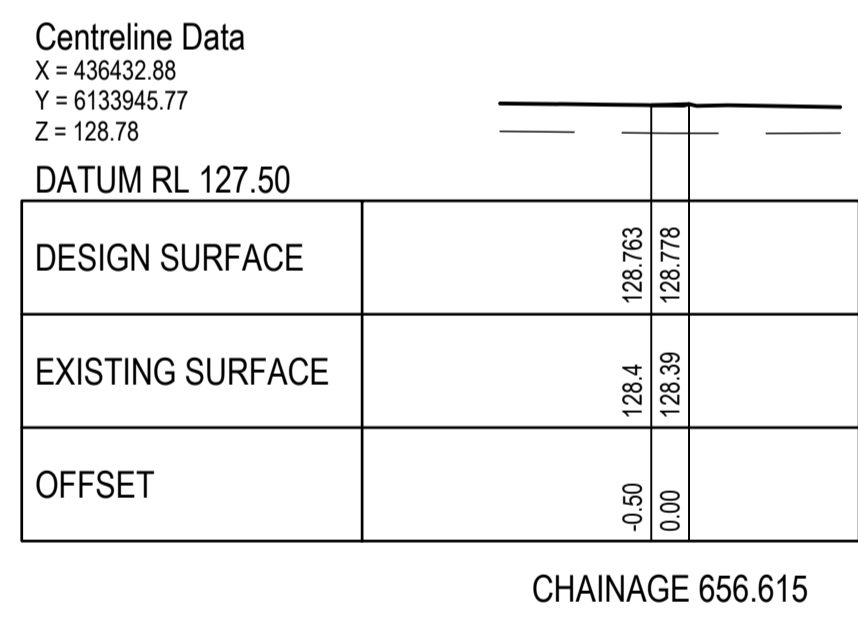
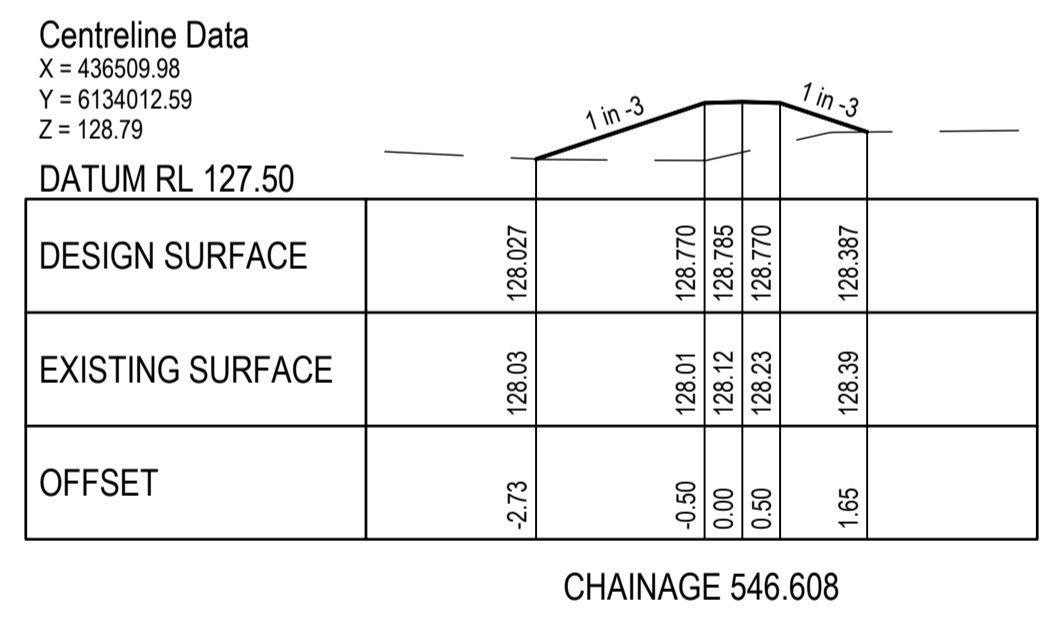
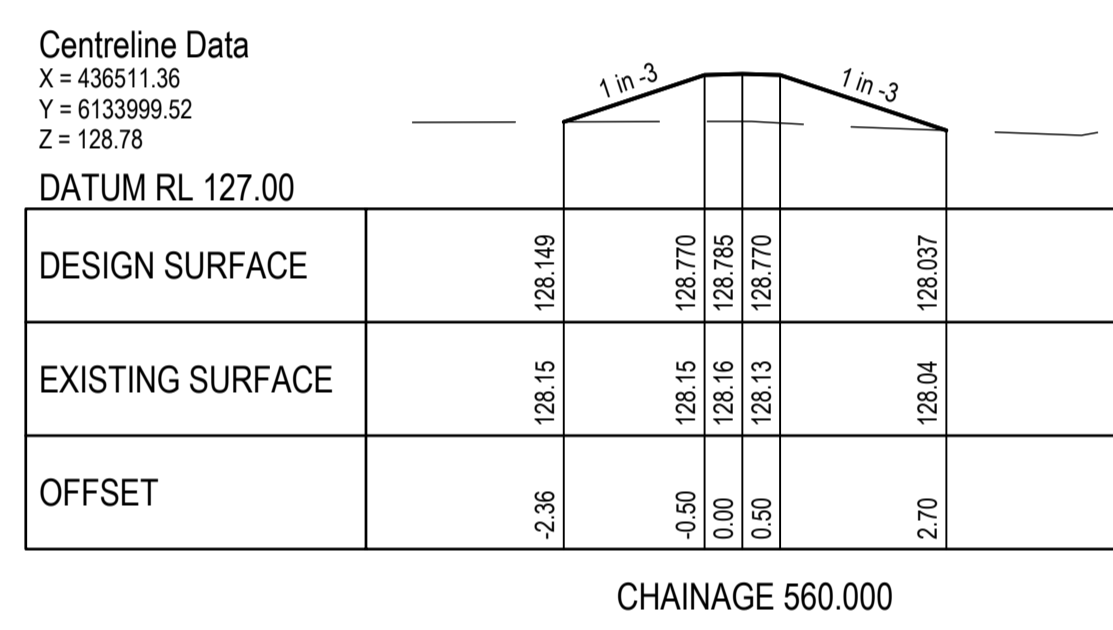
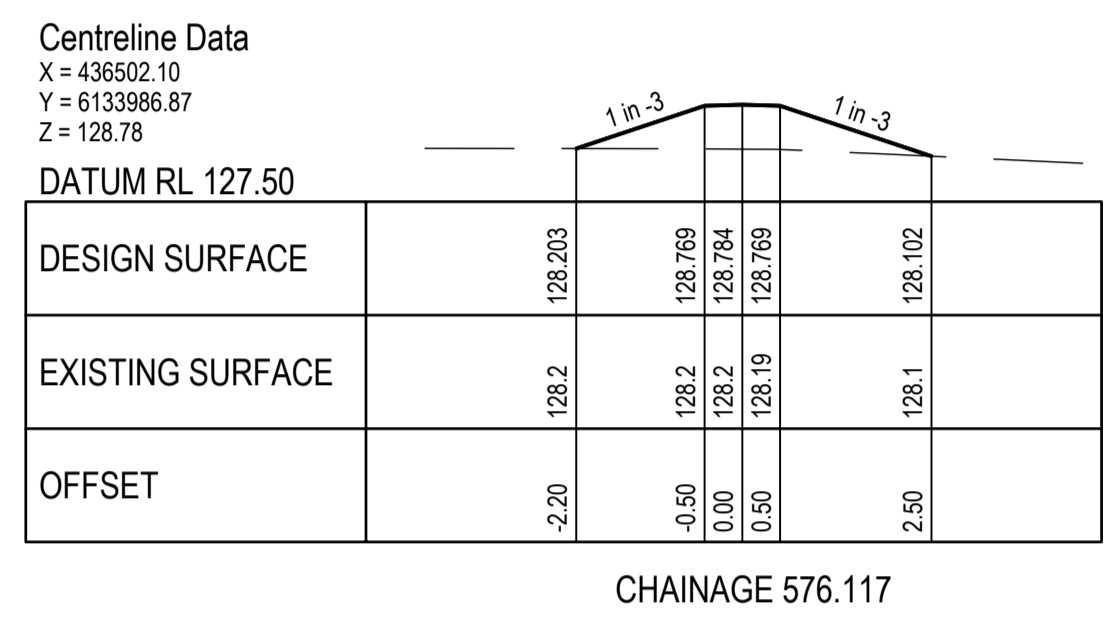
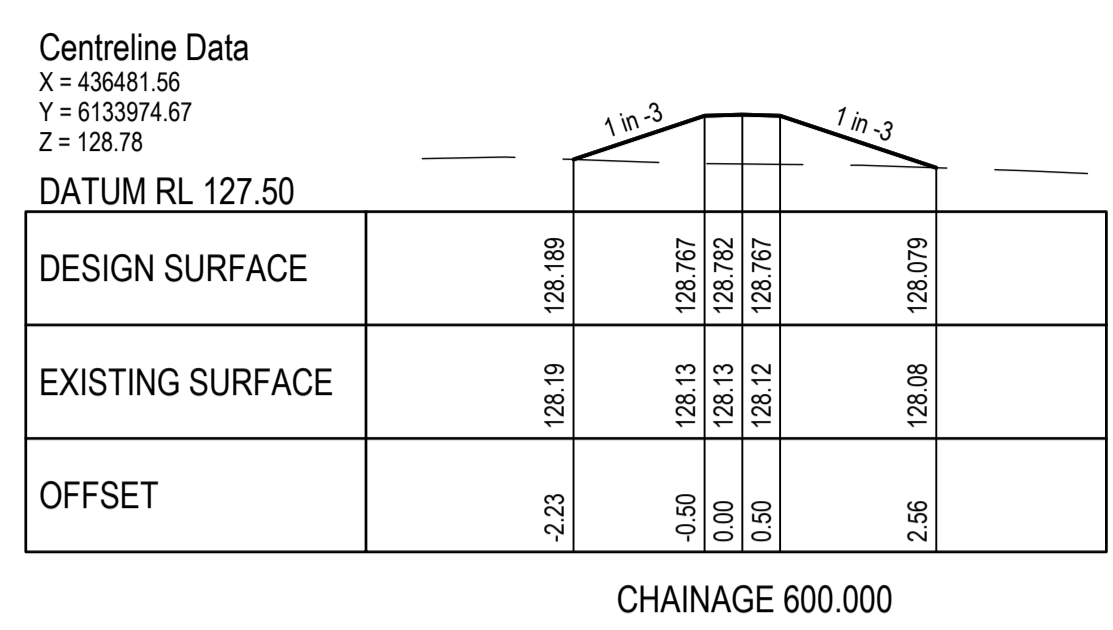
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FEDERATION COUNCIL
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 PRELIMINARY DESIGN
 BUND CROSS SECTIONS
 SHEET 1 OF 2

DRAWN	DATE	SCALE	DATUM
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DSE23030-1300			2

DATE PLOTTED: 1 December 2023 3:28 PM BY: AARON WARD
 XREFs: P-RS01-XS-01; P-RS01-XS-02
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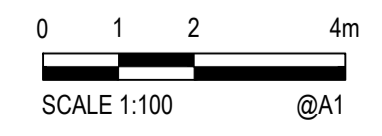
LEGEND - CROSS AND LONG SECTIONS	
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	EXISTING SURFACE PROFILE



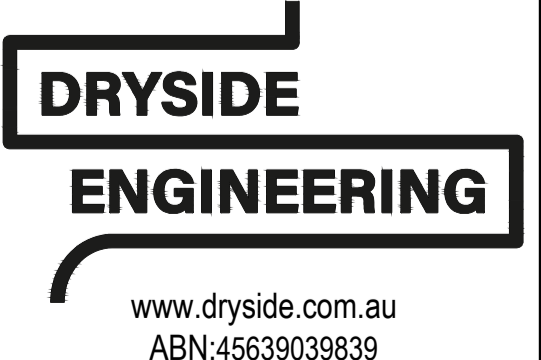
BUND CROSS SECTIONS
 SCALE H 1:100 V 1:100

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 SHEET 2 OF 2

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DSE23030-1301 2