

BARELLAN LEVEE DESIGN

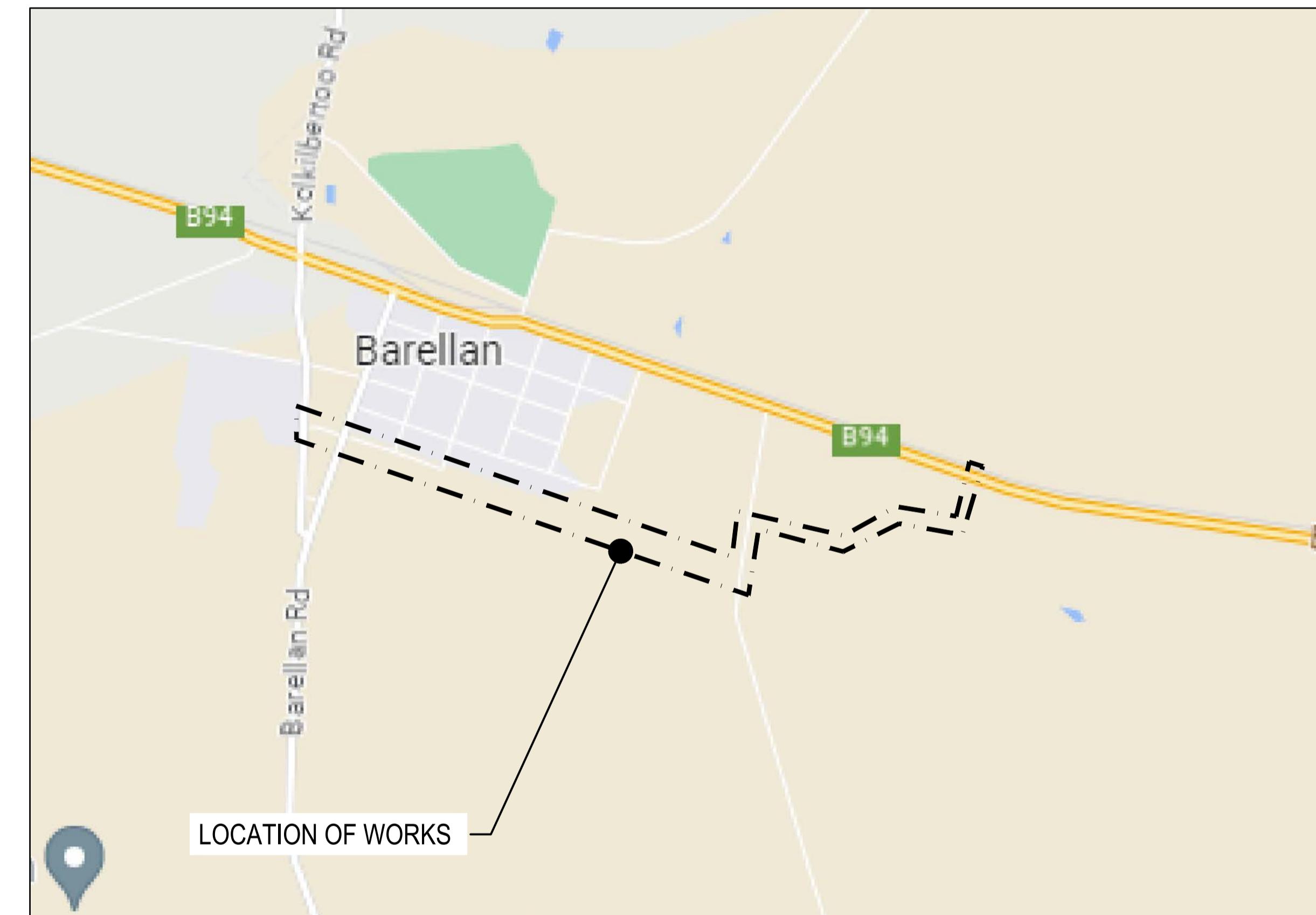
KURRAJONG ST AND BARELLAN CEMETERY RD, BARELLAN NSW

FOR
NARRANDERA SHIRE COUNCIL

**DRYSIDE
ENGINEERING**



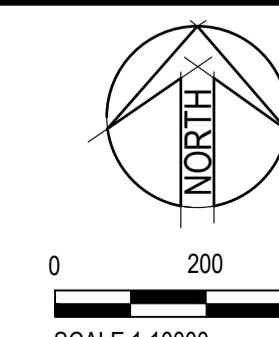
DRAWING REGISTER	
SHEET NUMBER	SHEET TITLE
0001	FACE SHEET, LOCALITY PLAN AND DRAWING REGISTER
1000	OVERALL LAYOUT PLAN
1100	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 1 OF 11
1101	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 2 OF 11
1102	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 3 OF 11
1103	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 4 OF 11
1104	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 5 OF 11
1105	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 6 OF 11
1106	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 7 OF 11
1107	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 8 OF 11
1108	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 9 OF 11
1109	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 10 OF 11
1110	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 11 OF 11
1111	RS02 BARELLAN ROAD LAYOUT PLAN AND LONGITUDINAL SECTION
1120	RS09 LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 1 OF 2 (BURLEY GRIFFIN WAY)
1121	RS09 LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 2 OF 2 (BURLEY GRIFFIN WAY)
1130	SIDE ROAD LONGITUDINAL SECTIONS - SHEET 1 OF 2
1131	SIDE ROAD LONGITUDINAL SECTIONS - SHEET 2 OF 2
1150	TYPICAL SECTIONS AND DETAILS - SHEET 1 OF 6
1151	TYPICAL SECTIONS AND DETAILS - SHEET 2 OF 6
1152	TYPICAL SECTIONS AND DETAILS - SHEET 3 OF 6
1153	TYPICAL SECTIONS AND DETAILS - SHEET 4 OF 6
1154	TYPICAL SECTIONS AND DETAILS - SHEET 5 OF 6
1155	TYPICAL SECTIONS AND DETAILS - SHEET 6 OF 6
1200	LEVEE CROSS SECTIONS - SHEET 1 OF 10
1201	LEVEE CROSS SECTIONS - SHEET 2 OF 10
1202	LEVEE CROSS SECTIONS - SHEET 3 OF 10
1203	LEVEE CROSS SECTIONS - SHEET 4 OF 10
1204	LEVEE CROSS SECTIONS - SHEET 5 OF 10
1205	LEVEE CROSS SECTIONS - SHEET 6 OF 10
1206	LEVEE CROSS SECTIONS - SHEET 7 OF 10
1207	LEVEE CROSS SECTIONS - SHEET 8 OF 10
1208	LEVEE CROSS SECTIONS - SHEET 9 OF 10
1209	LEVEE CROSS SECTIONS - SHEET 10 OF 10
1220	RS09 BURLEY GRIFFIN WAY CROSS SECTIONS - SHEET 1 OF 3
1221	RS09 BURLEY GRIFFIN WAY CROSS SECTIONS - SHEET 2 OF 3
1222	RS09 BURLEY GRIFFIN WAY CROSS SECTIONS - SHEET 3 OF 3
1230	ROAD CROSS SECTIONS - SHEET 1 OF 4
1231	ROAD CROSS SECTIONS - SHEET 2 OF 4
1232	ROAD CROSS SECTIONS - SHEET 3 OF 4
1233	ROAD CROSS SECTIONS - SHEET 4 OF 4
1250	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 2
1251	DRAINAGE LONGITUDINAL SECTIONS AND PIT SCHEDULE - SHEET 2 OF 2
1253	DRAINAGE TYPICAL DETAILS
1260	SETOUT REPORTS - SHEET 1 OF 2
1261	SETOUT REPORTS - SHEET 2 OF 2



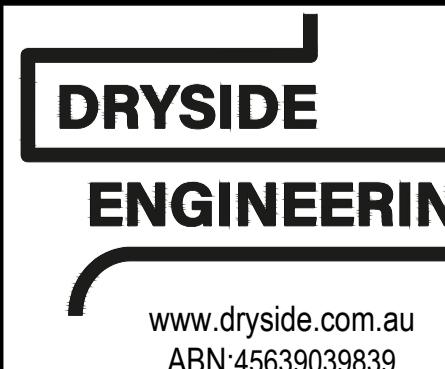
LOCALITY PLAN
NOT TO SCALE
GOOGLE IMAGE (ACCESSED ON 31/05/2023)

FOR CONSTRUCTION

A	12/03/2024	CONSTRUCTION ISSUE	AW	EH	EH
REV		DESCRIPTION	DES	VER	APP



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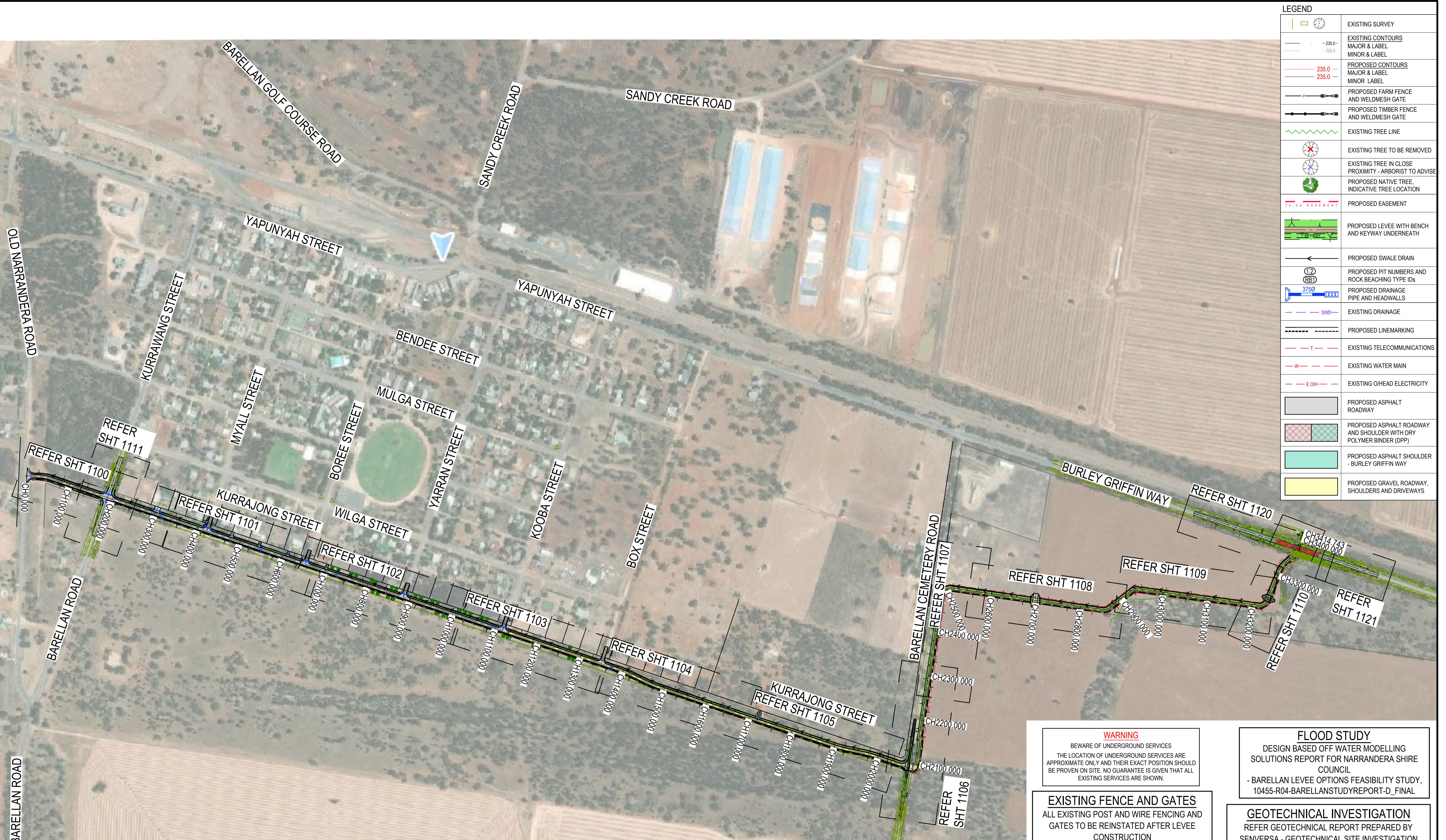
12/03/2024

NARRANDERA SHIRE COUNCIL

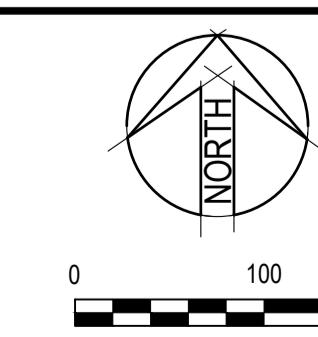
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
FACESHET, LOCALITY PLAN
AND DRAWING REGISTER

DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-0001			A

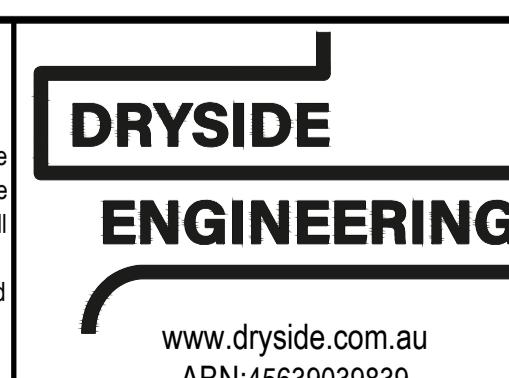
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	EXISTING CONTOURS
- 235.0 -	MAJOR & LABEL
- 235.0 -	MINOR & LABEL
	PROPOSED CONTOURS
235.0 -	MAJOR & LABEL
235.0 -	MINOR & LABEL
	PROPOSED FARM FENCE
AND WELDMESH GATE	
	PROPOSED TIMBER FENCE
AND WELDMESH GATE	
	EXISTING TREE LINE
	EXISTING TREE TO BE REMOVED
	EXISTING TREE IN CLOSE PROXIMITY - ARBORIST TO ADVISE
	PROPOSED NATIVE TREE, INDICATIVE TREE LOCATION
	PROPOSED EASEMENT
	PROPOSED LEVEE WITH BENCH AND KEYWAY UNDERNEATH
	PROPOSED SWALE DRAIN
	PROPOSED PIT NUMBERS AND ROCK BEACHING TYPE IDs
	PROPOSED DRAINAGE PIPE AND HEADWALLS
	EXISTING DRAINAGE
	PROPOSED LINEMARKING
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING OH-ELECTRICITY
	PROPOSED ASPHALT ROADWAY
	PROPOSED ASPHALT ROADWAY AND SHOULDER WITH DRY POLYMER BINDER (DPP)
	PROPOSED ASPHALT SHOULDER - BURLEY GRIFFIN WAY
	PROPOSED GRAVEL ROADWAY, SHOULDERS AND DRIVEWAYS



REV	DATE	CONSTRUCTION ISSUE	AW	EH	EH	DES	VER	APP
A	12/03/2024							



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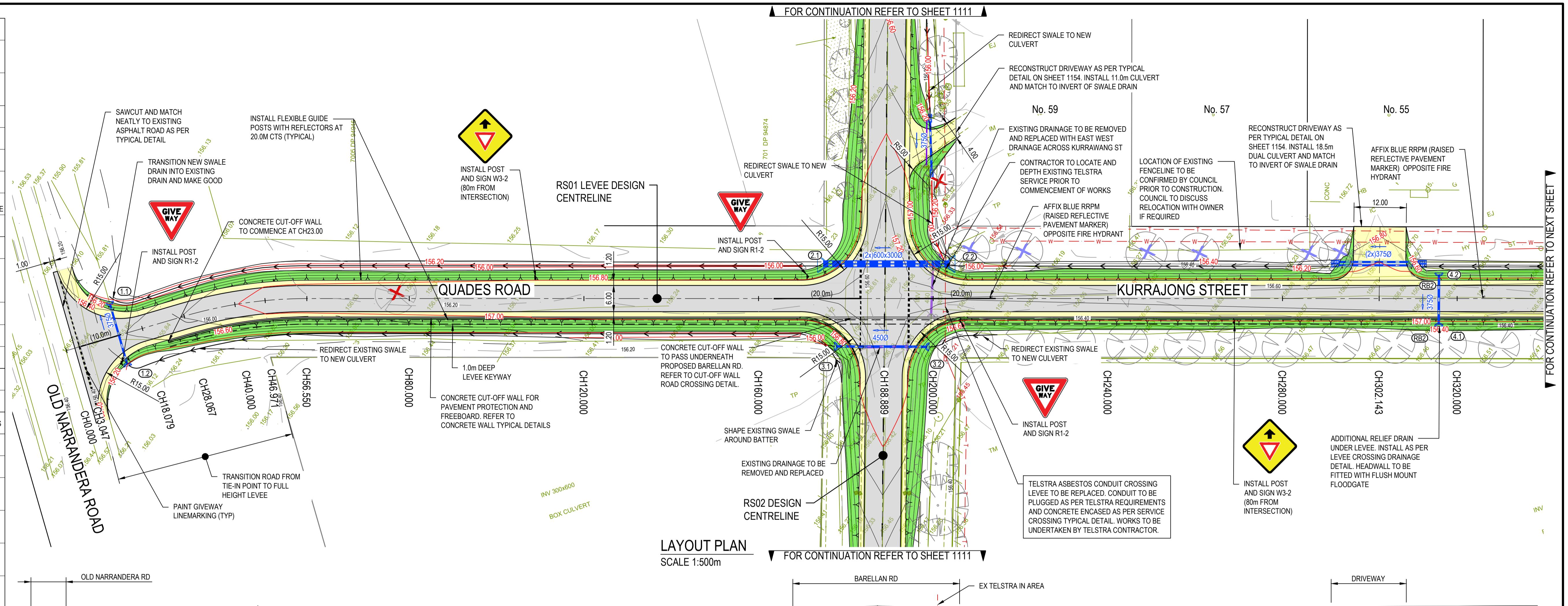
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12/03/2024
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12/03/2024

NARRANDERA SHIRE COUNCIL
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
OVERALL LAYOUT PLAN

DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE2301-1000			A

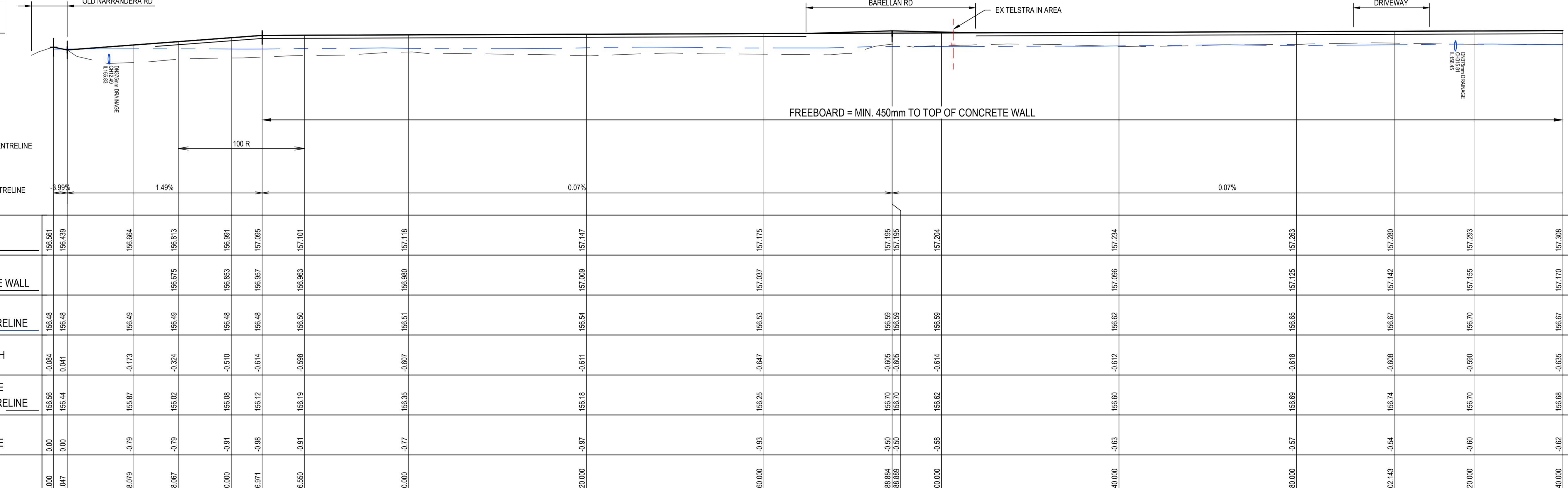
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	PROPOSED FARM FENCE AND WELDMESH GATE
	PROPOSED TIMBER FENCE AND WELDMESH GATE
	EXISTING TREE LINE
	EXISTING TREE TO BE REMOVED
	EXISTING TREE IN CLOSE PROXIMITY - ARBORIST TO ADVISE
	PROPOSED NATIVE TREE, INDICATIVE TREE LOCATION
	PROPOSED EASEMENT
	PROPOSED LEVEE WITH BENCH AND KEYWAY UNDERNEATH
	PROPOSED SWALE DRAIN
	PROPOSED PIT NUMBERS AND ROCK BEACHING TYPE IDs
	PROPOSED DRAINAGE PIPE AND HEADWALLS
	EXISTING DRAINAGE
	PROPOSED LINEMARKING
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING ONEHEAD ELECTRICITY
	PROPOSED ASPHALT ROADWAY
	PROPOSED ASPHALT ROADWAY AND SHOULDER WITH DRY POLYMER BINDER (DPP)
	PROPOSED ASPHALT SHOULDER - BURLEY GRIFFIN WAY
	PROPOSED GRAVEL ROADWAY, SHOULDERS AND DRIVEWAYS

XREFS: X-DSE23011-SURVEY-XP; P-RS01-LS-100-; P-RS01-LS-101-; P-RS01-LS-102-; P-RS01-LS-103-; P-RS01-LS-104-; P-RS01-LS-105-; P-RS01-LS-106-; P-RS01-LS-107-; P-RS01-LS-108-; P-RS01-LS-109-; P-RS01-LS-110-; X-DSE23011-CONT-E; X-DSE23011-CONT-D; X-DSE23011-CONT-E; X-DSE23011-SURVEY-EDM; P-RS01-RLS-01; P-RS01-RLS-02; X-DSE23011-TYPICALS; P-RS02-RLS-01
DATE PLOT ED: 12 March 2024 9:55 AM BY: AARON WARD
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LAYOUT PLAN

SCALE 1:500m



RS01 LONGITUDINAL SECTION - PROPOSED LEVEE CENTRELINE

SCALE H 1:500m V 1:100m

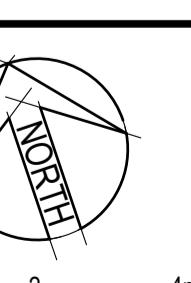
FOR CONSTRUCTION

A	12/03/2024	CONSTRUCTION ISSUE	AW	EH	EH
REV	DATE	DESCRIPTION	DES	VER	APP
A	12/03/2024				



0 10 20m
SCALE 1:500 @A1

0 1 2 4m
SCALE 1:100 @A1



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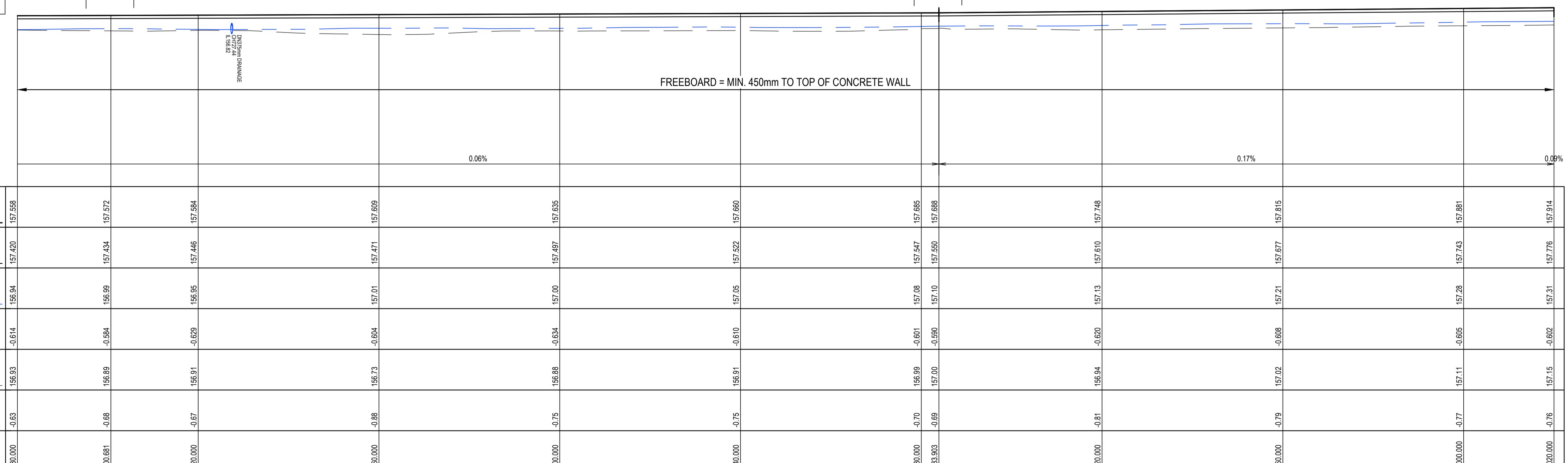
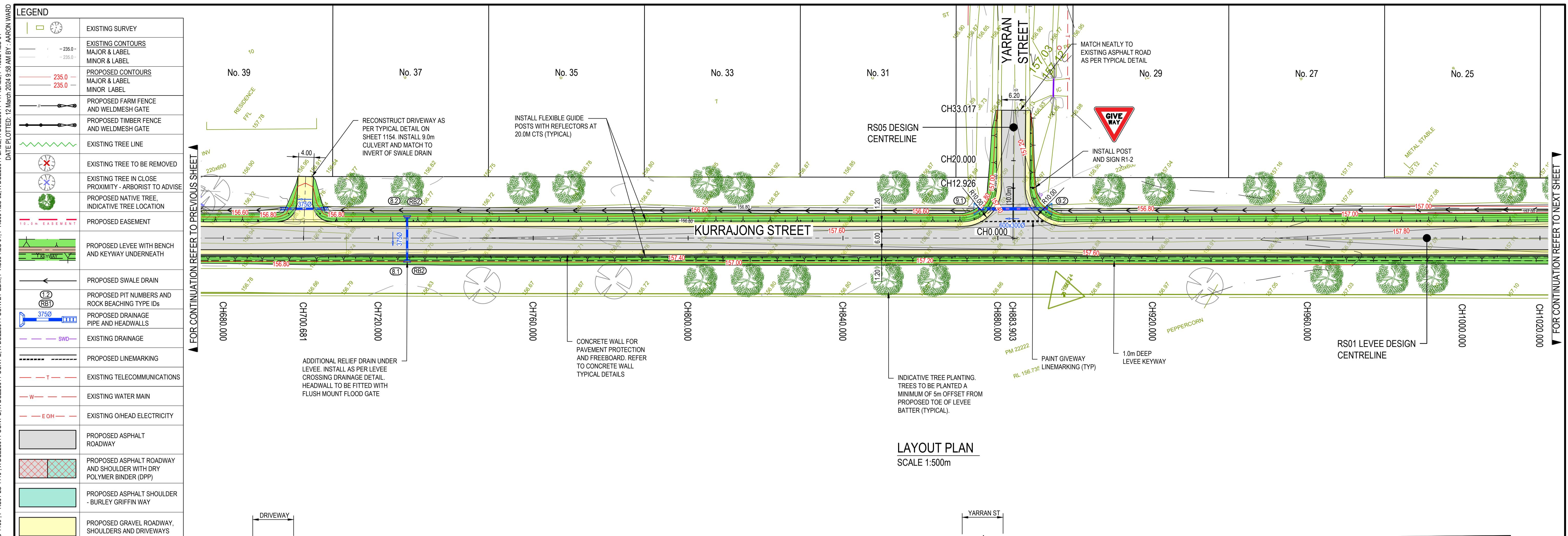
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12/03/2024

NARRANDERA SHIRE COUNCIL
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
SHEET 1 OF 11

DRAWN
A.WARD
DATE 30/05/2023
AS SHOWN
SCALE
DATUM MAHD
DESIGNED
A.WARD
DATE 25/05/2023
PROJECTION GD94
SHEET SIZE A1

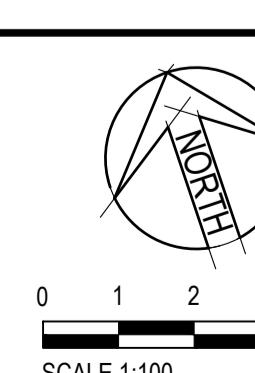
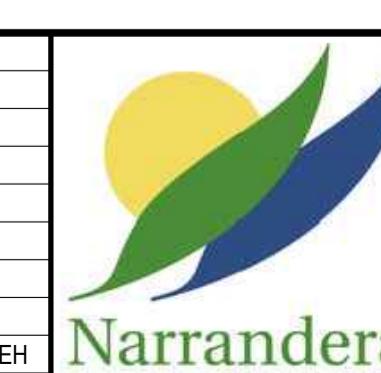
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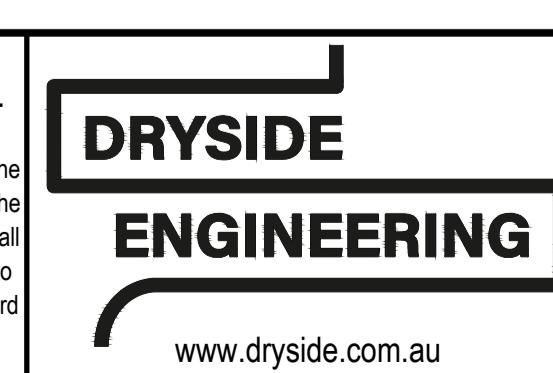


BS01 LONGITUDINAL SECTION PROPOSED LEVEE CENTRE LINE

RSUT LONGBUDI



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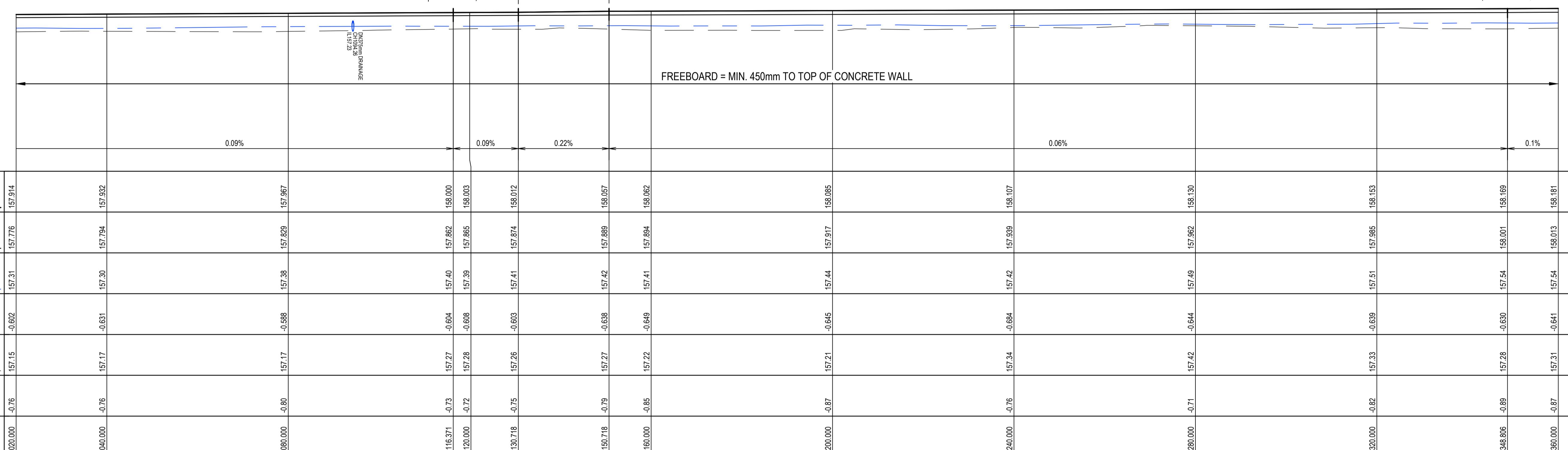
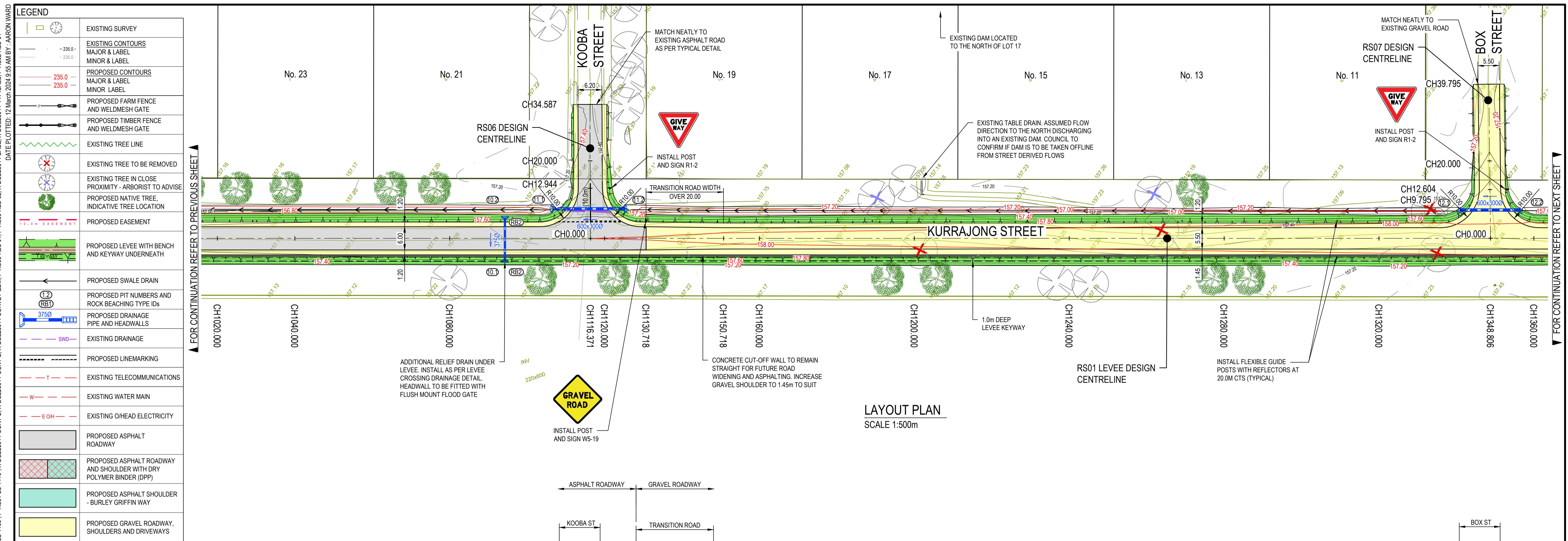
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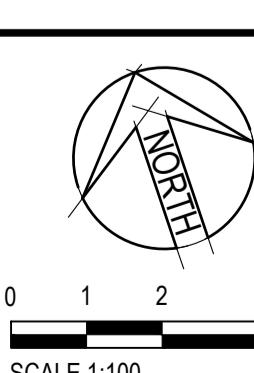
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY P
BARELLAN, NSW 2665
DETAILED DESIGN
LEVEE LAYOUT PLAN AND LONGITUDINAL SE

FOR CONSTRUCTION

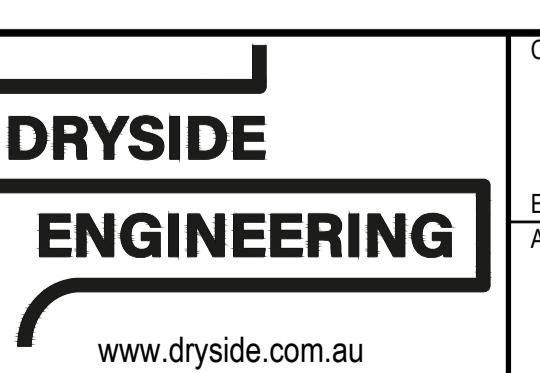


BS01 | LONGITUDINAL SECTION PROPOSED LEVEE CENTRE LINE

RSU1 LONGITUDINA
SCALE 1:1,500 - V1.100



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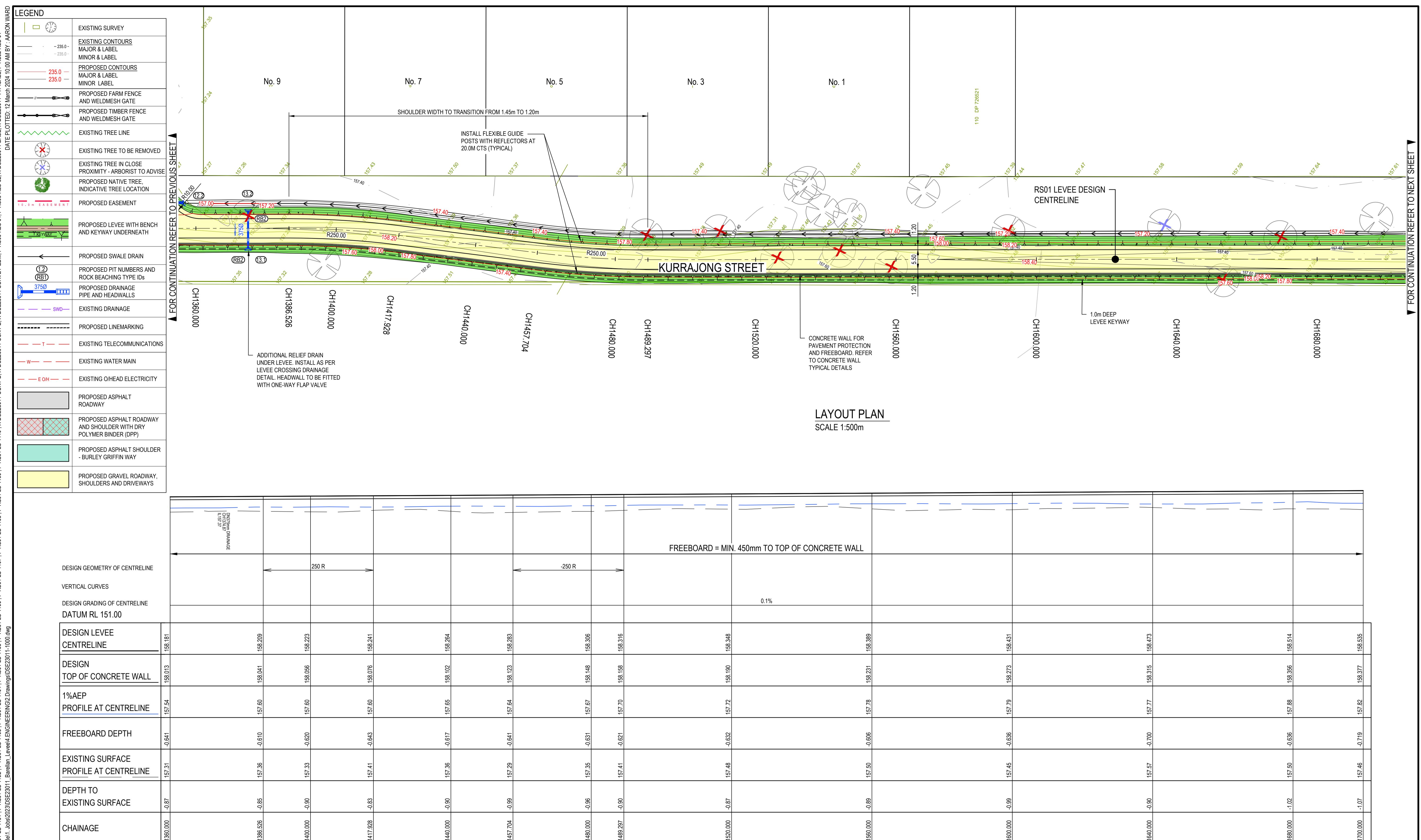
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NARRABRERA SHIRE COUNCIL

**BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665**

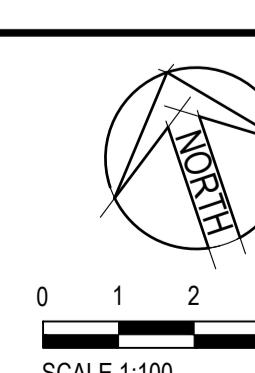
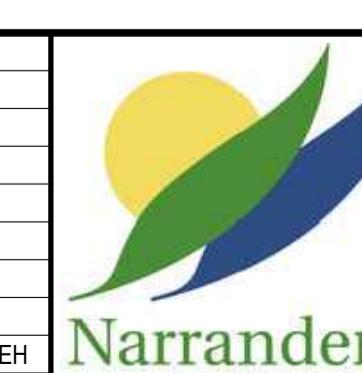
**DETAILED DESIGN
LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
SHEET 4 OF 11**

FOR CONSTRUCTION

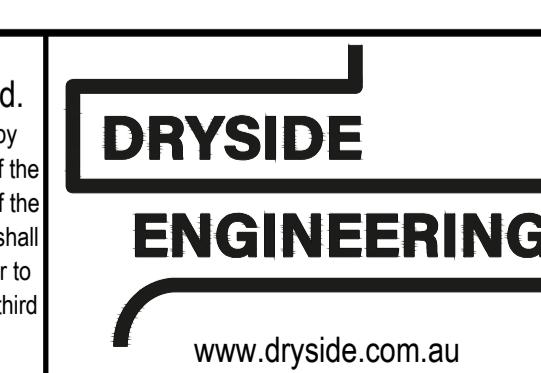


RS01 | LONGITUDINAL SECTION - PROPOSED LEVEE CENTRE LINE

SCALE H 1:500m V 1:1



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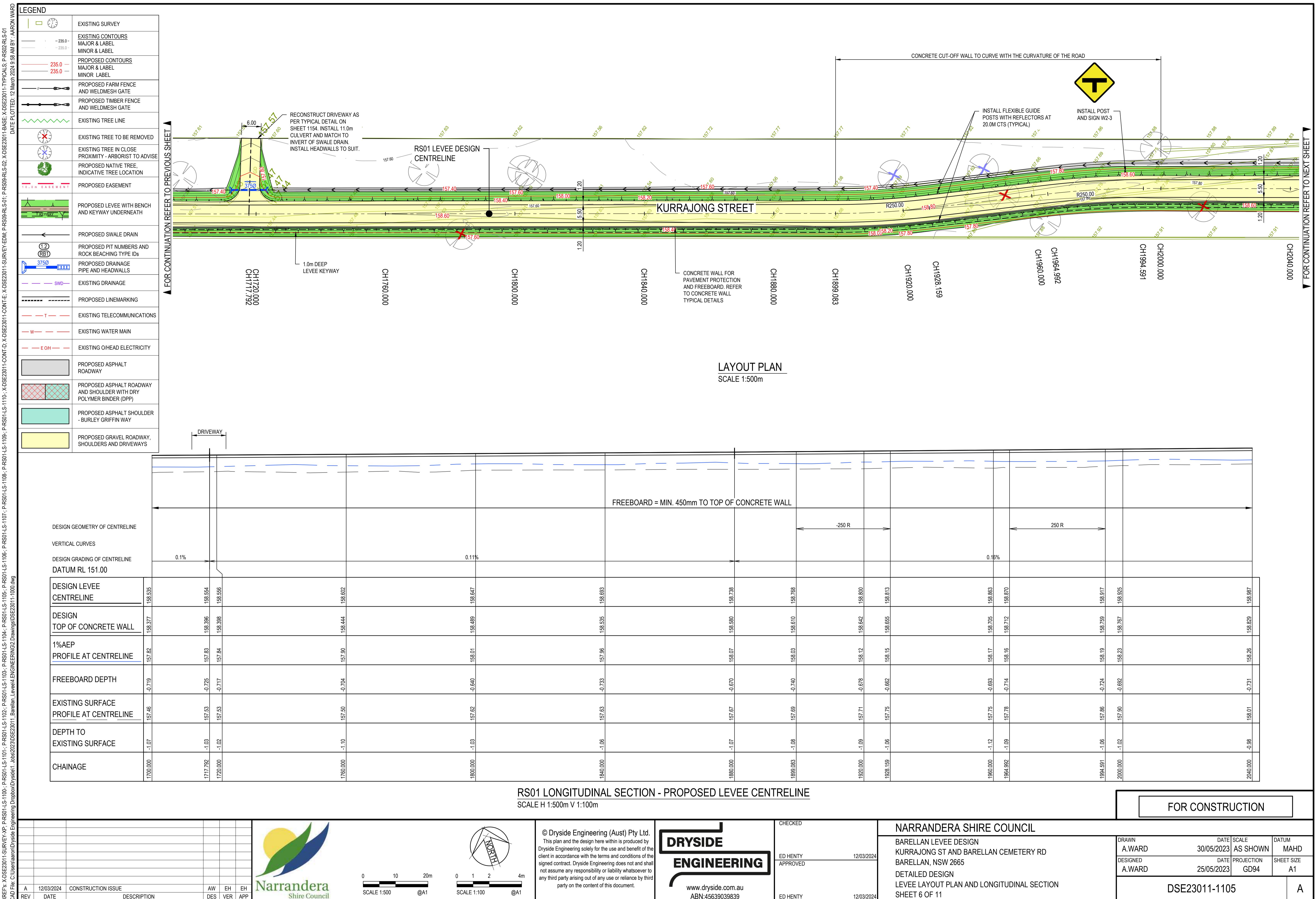


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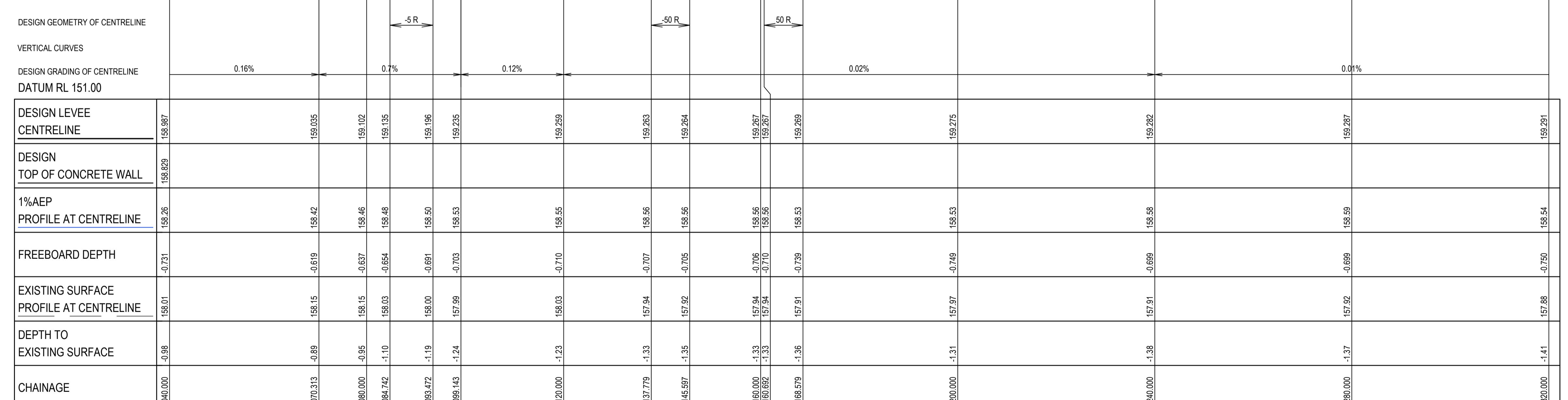
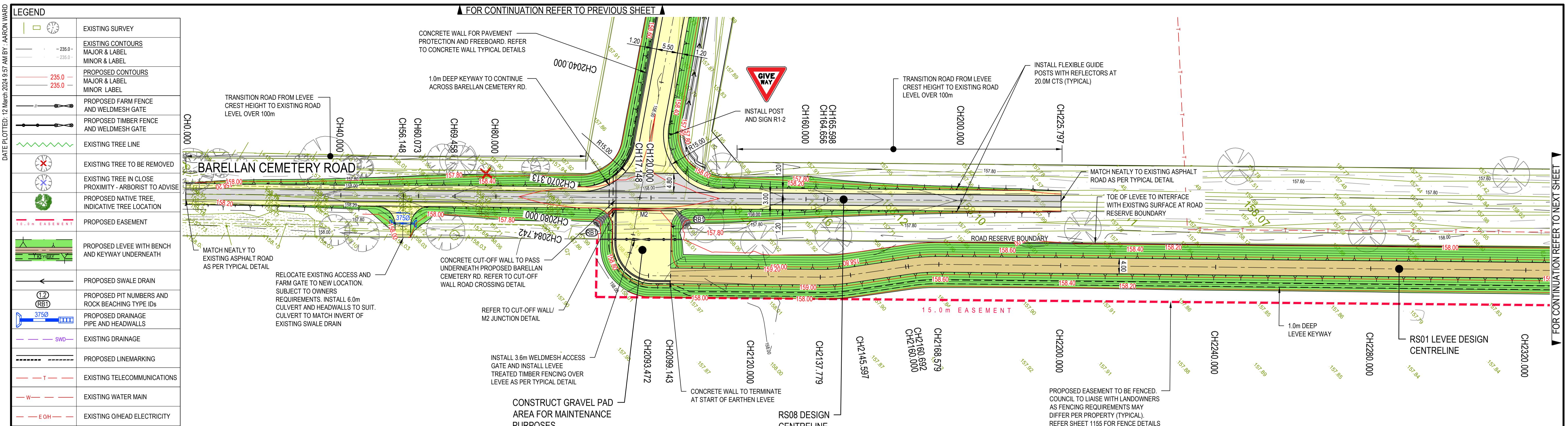
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**BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY
BARELLAN, NSW 2665
DETAILED DESIGN
LEVEE LAYOUT PLAN AND LONGITUDINAL S**

FOR CONSTRUCTION



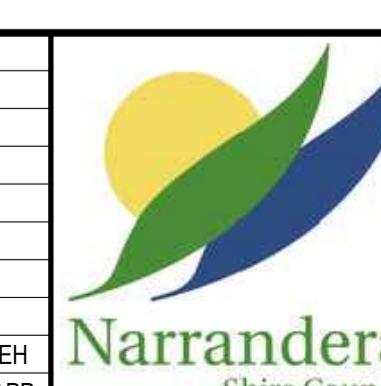
LEGEND	
	EXISTING SURVEY
- 235.0 -	EXISTING CONTOURS MAJOR & LABEL MINOR & LABEL
- 235.0 -	PROPOSED CONTOURS MAJOR & LABEL MINOR & LABEL
- 235.0 -	PROPOSED FARM FENCE AND WELDMESH GATE
- 235.0 -	PROPOSED TIMBER FENCE AND WELDMESH GATE
	EXISTING TREE LINE
	EXISTING TREE TO BE REMOVED
	EXISTING TREE IN CLOSE PROXIMITY - ARBORIST TO ADVISE
	PROPOSED NATIVE TREE, INDICATIVE SITE LOCATION
	PROPOSED EASEMENT
	PROPOSED LEVEE WITH BENCH AND KEYWAY UNDERNEATH
	PROPOSED SWALE DRAIN
	PROPOSED PIT NUMBERS AND ROCK BEACHING TYPE IDs
	PROPOSED DRAINAGE PIPE AND HEADWALLS
	EXISTING DRAINAGE
	PROPOSED LINEMARKING
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING O/HEAD ELECTRICITY
	PROPOSED ASPHALT ROADWAY
	PROPOSED ASPHALT ROADWAY AND SHOULDER WITH DRY POLYMER BINDER (DPP)
	PROPOSED ASPHALT SHOULDER - BURLEY GRIFFIN WAY
	PROPOSED GRAVEL ROADWAY, SHOULDERS AND DRIVEWAYS



RS01 LONGITUDINAL SECTION - PROPOSED LEVEE CENTRELINE
SCALE H 1:500m V 1:100m

FOR CONSTRUCTION

A	12/03/2024	CONSTRUCTION ISSUE	AW	EH	EH
REV	DATE	DESCRIPTION	DES	VER	APP



0 10 20m
SCALE 1:500 @A1

0 1 2 4m
SCALE 1:100 @A1

NORTH



0 10 20m
SCALE 1:500 @A1

0 1 2 4m
SCALE 1:100 @A1

NORTH

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SCALE 1:500 @A1

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NORTH

0 10 20m
SCALE 1:500 @A1

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SCALE 1:100 @A1

NORTH

0 10 20m
SCALE 1:500 @A1

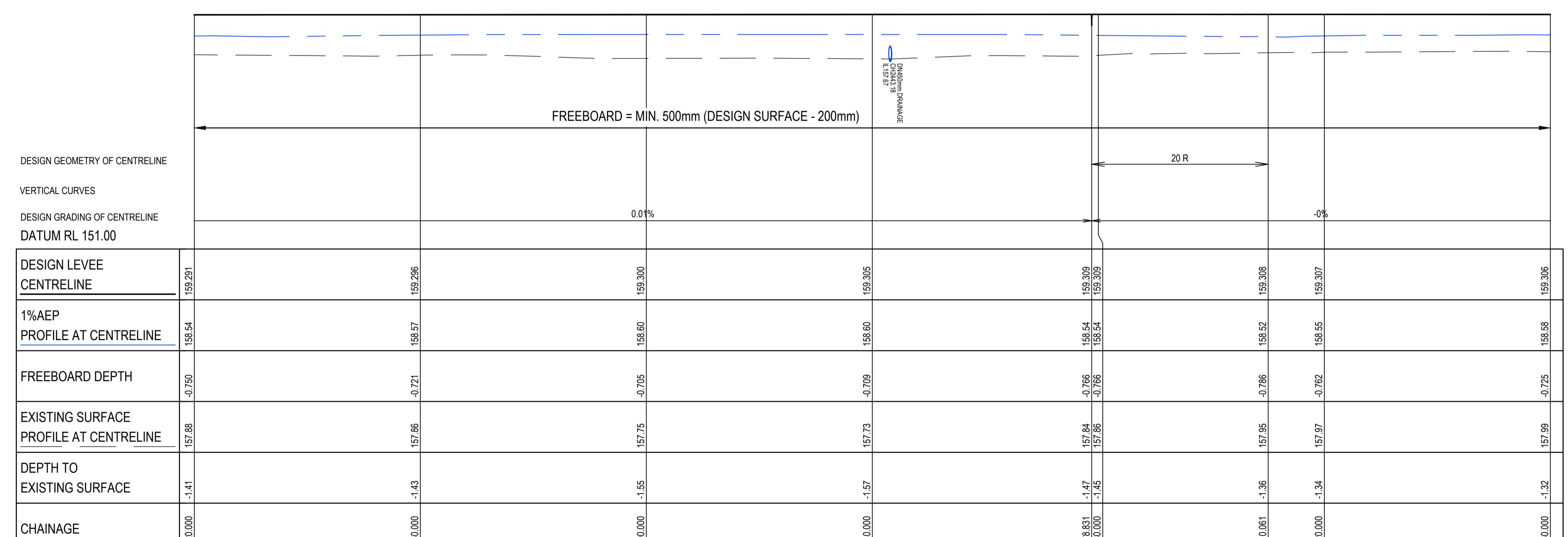
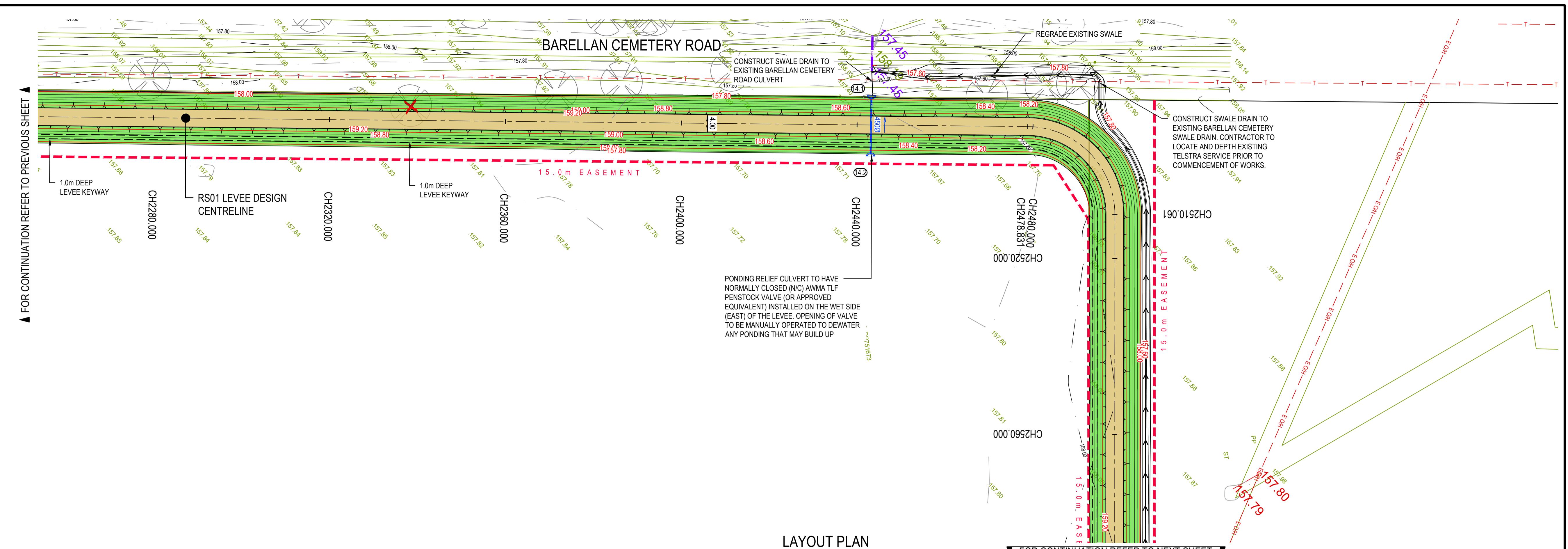
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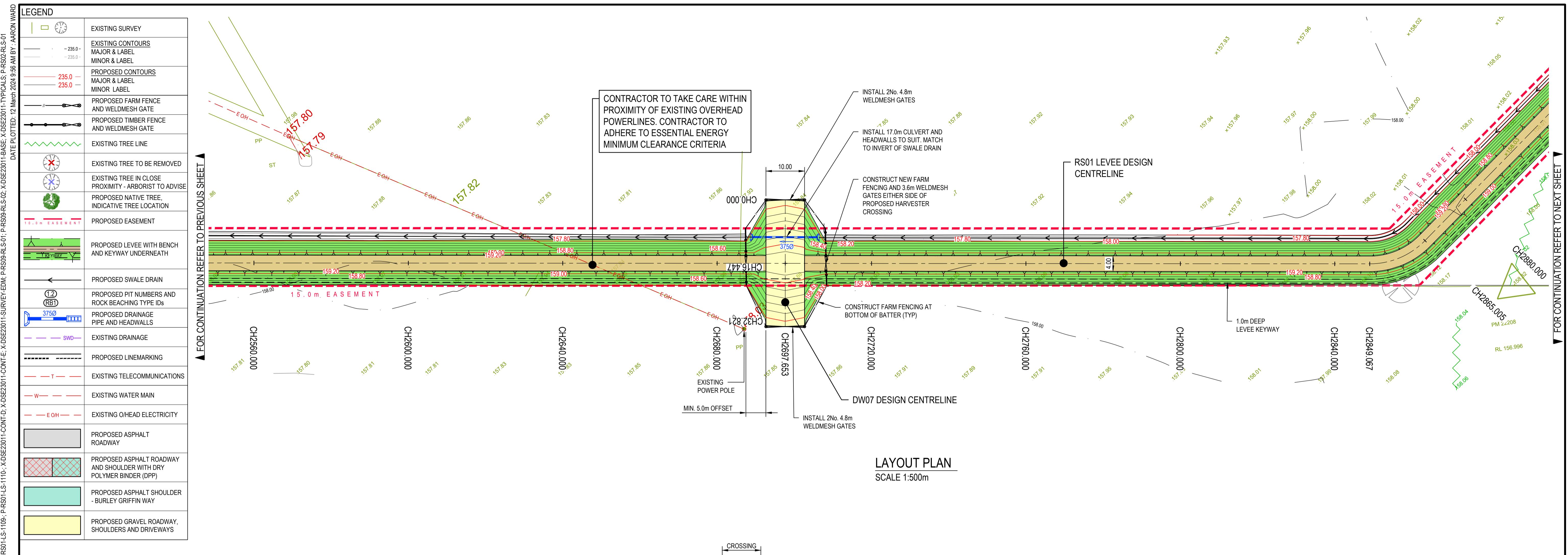
NORTH

0 10 20m
SCALE 1:500 @A1

0 1 2 4m
SCALE 1:100 @A1

LEGEND	
	EXISTING SURVEY
	EXISTING CONTOURS MAJOR & LABEL MINOR & LABEL
	PROPOSED CONTOURS MAJOR & LABEL MINOR & LABEL
	PROPOSED FARM FENCE AND WELDMESH GATE
	PROPOSED TIMBER FENCE AND WELDMESH GATE
	EXISTING TREE LINE
	EXISTING TREE TO BE REMOVED
	EXISTING TREE IN CLOSE PROXIMITY - ARBORIST TO ADVISE
	PROPOSED NATIVE TREE, INDICATIVE TREE LOCATION
	PROPOSED EASEMENT
	PROPOSED LEVEE WITH BENCH AND KEYWAY UNDERNEATH
	PROPOSED SWALE DRAIN
	PROPOSED PIT NUMBERS AND ROCK BEACHING TYPE IDs
	PROPOSED DRAINAGE PIPE AND HEADWALLS
	EXISTING DRAINAGE
	PROPOSED LINEMARKING
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING O/HEAD ELECTRICITY
	PROPOSED ASPHALT ROADWAY
	PROPOSED ASPHALT ROADWAY AND SHOULDER WITH DRY POLYMER BINDER (DPP)
	PROPOSED ASPHALT SHOULDER - BURLEY GRIFFIN WAY
	PROPOSED GRAVEL ROADWAY, SHOULDERS AND DRIVEWAYS





DESIGN GEOMETRY OF CENTRELINE

VERTICAL CURVES

DESIGN GRADING OF CENTRELINE

DATUM RL 151.00

DESIGN LEVEE CENTRELINE

1%AEP PROFILE AT CENTRELINE

FREEBOARD DEPTH

EXISTING SURFACE PROFILE AT CENTRELINE

DEPTH TO EXISTING SURFACE

CHAINAGE

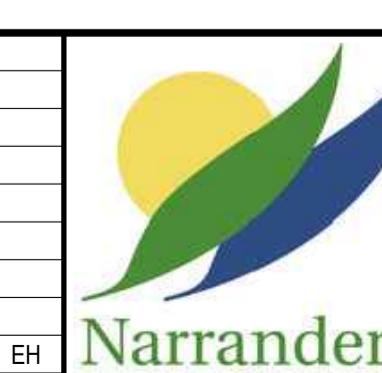
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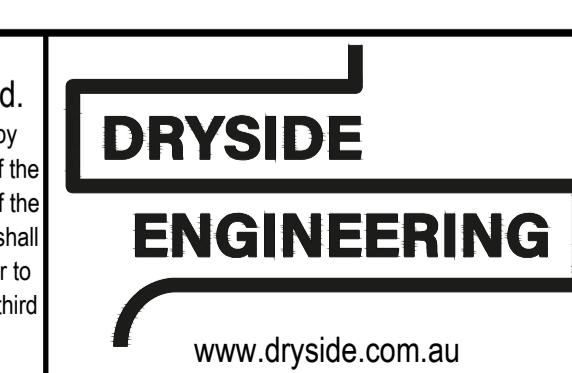
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BS01 | LONGITUDINAL SECTION - PROPOSED | LEVEE CENTRE LINE

SCALE H 1:500m V 1:100



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BARELLAN LEVEE DESIGN

KURRAJONG ST AND BARELLAN CEMETERY P

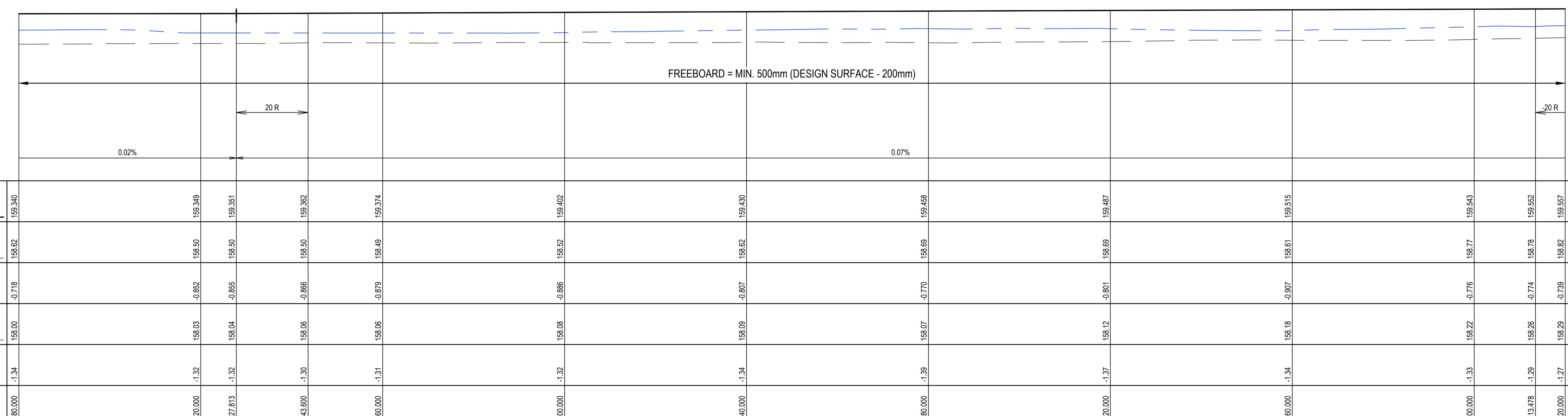
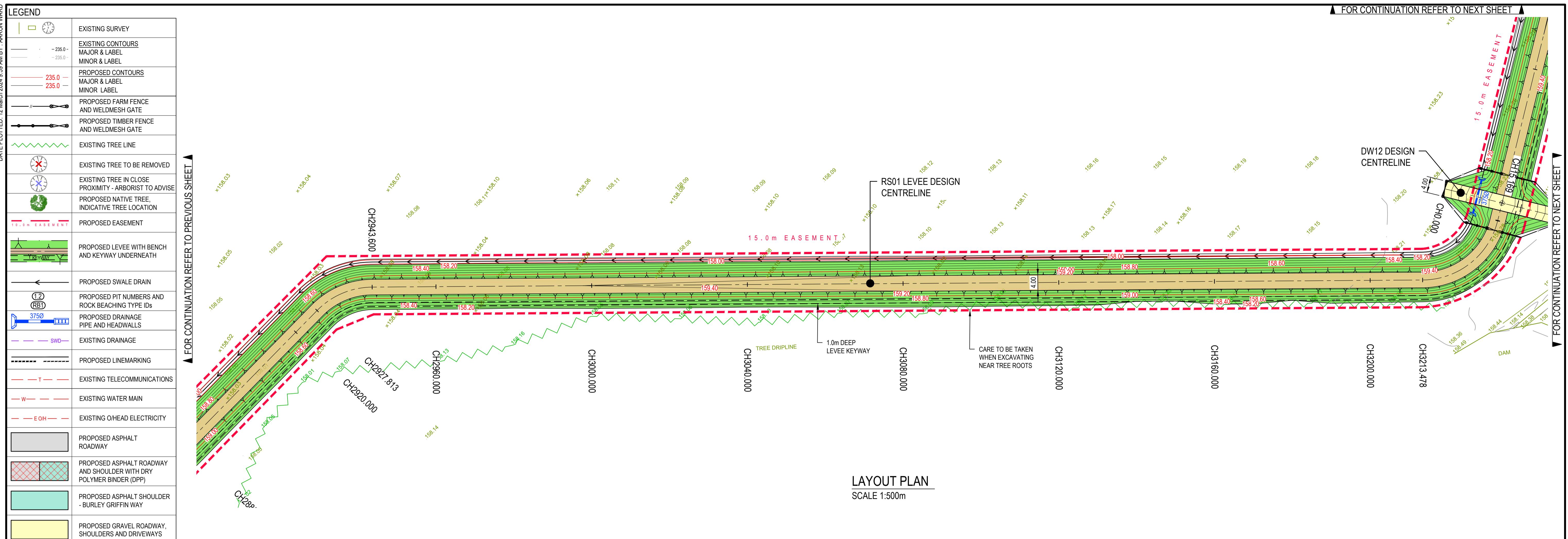
BARELLAN, NSW 2665

DETAILED DESIGN

LEVEE LAYOUT PLAN AND LONGITUDINAL SE

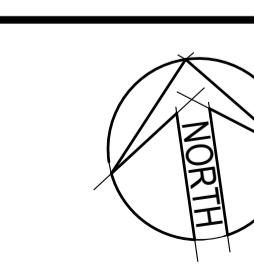
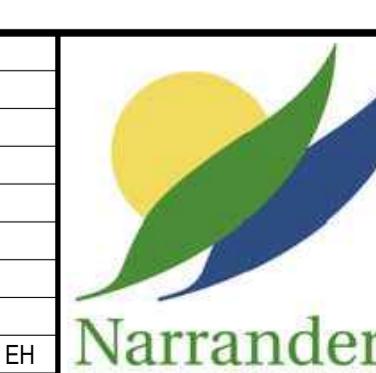
SHEET 2 OF 11

FOR CONSTRUCTION

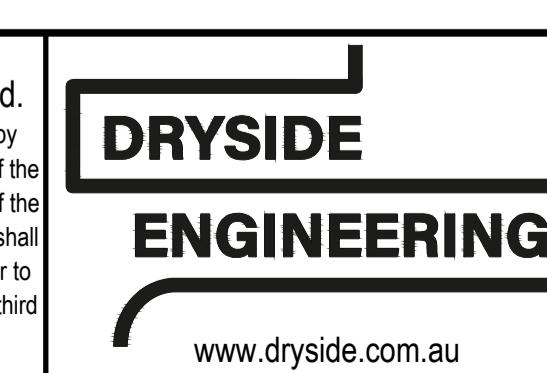


RS01 LONGITUDINAL SECTION PROPOSED LEVEE CENTRE LINE

RSUT LUNGITUD
SCALE H 1:500m V 1:10



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	APPROVED	
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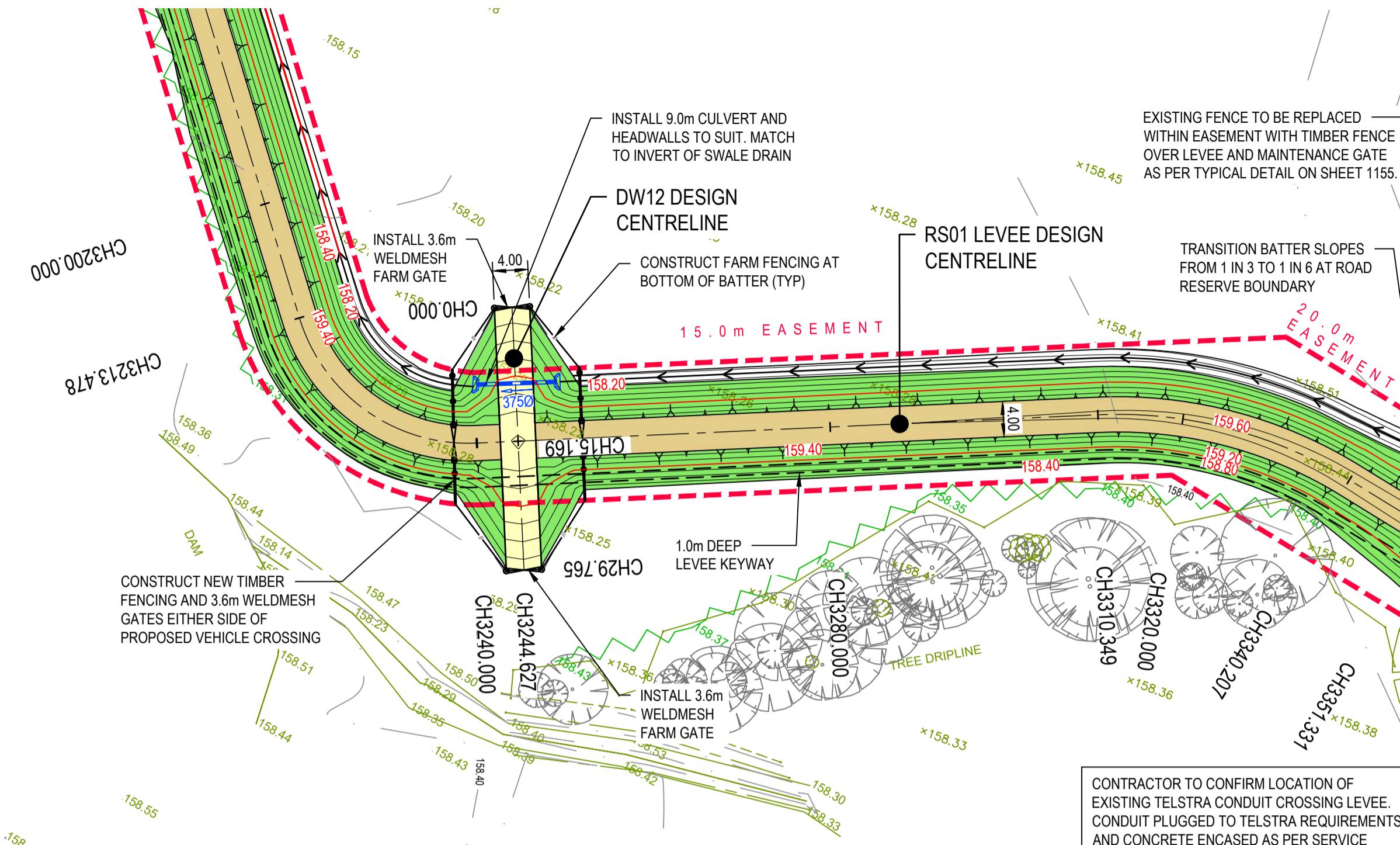
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665

DETAILED DESIGN
LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
SHEET 10 OF 11

FOR CONSTRUCTION

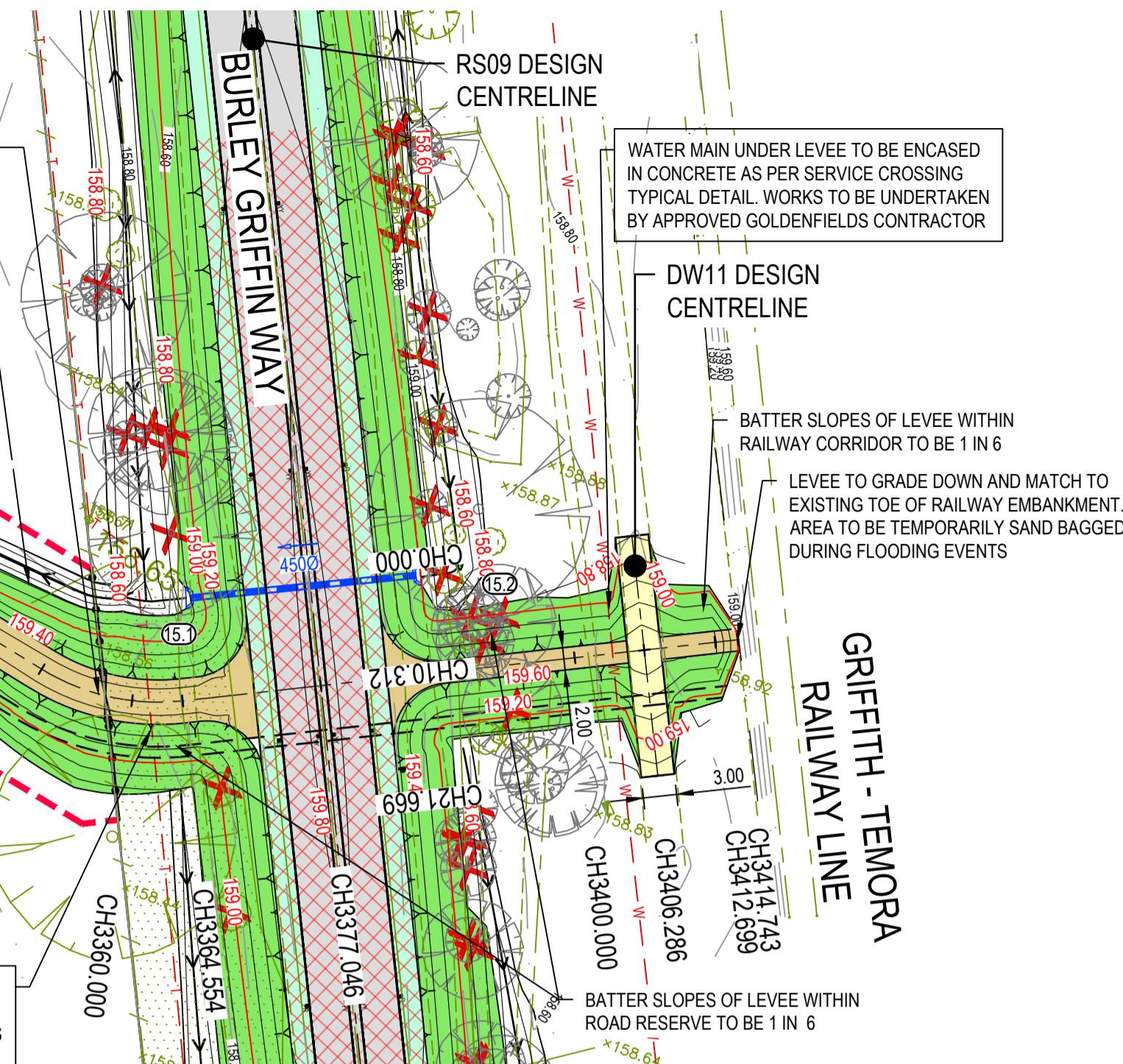
CAD Firm Call 1-800-222-4442 Engineering Drawings Dwgbox Dwgbox Dwgbox

▲ FOR CONTINUATION REFER TO PREVIOUS SHEET



LAYOUT PLAN
SCALE 1:500m

OR CONTINUATION REFER TO SHEET 1120



FOR CONTINUATION REFER TO SHEET 1120

DESIGN GEOMETRY OF CENT

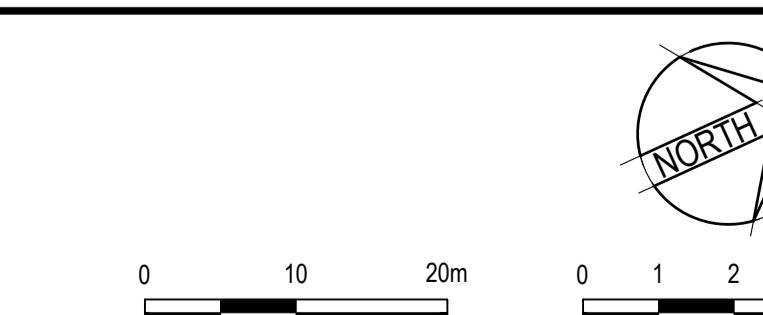
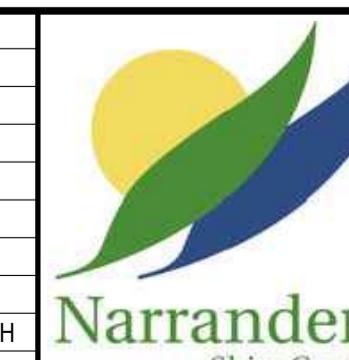
VERTICAL C

DESIGN GRADING OF CENTRE

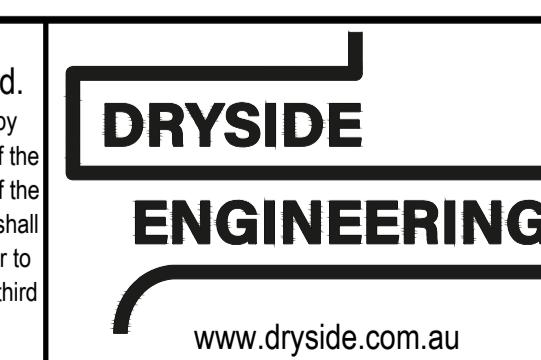
DATUM RL 152.00

RS01 LONGITUDINAL SECTION - PROPOSED LEVEE CENTRELINE

SCALE H 1:500m V 1:100



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KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665

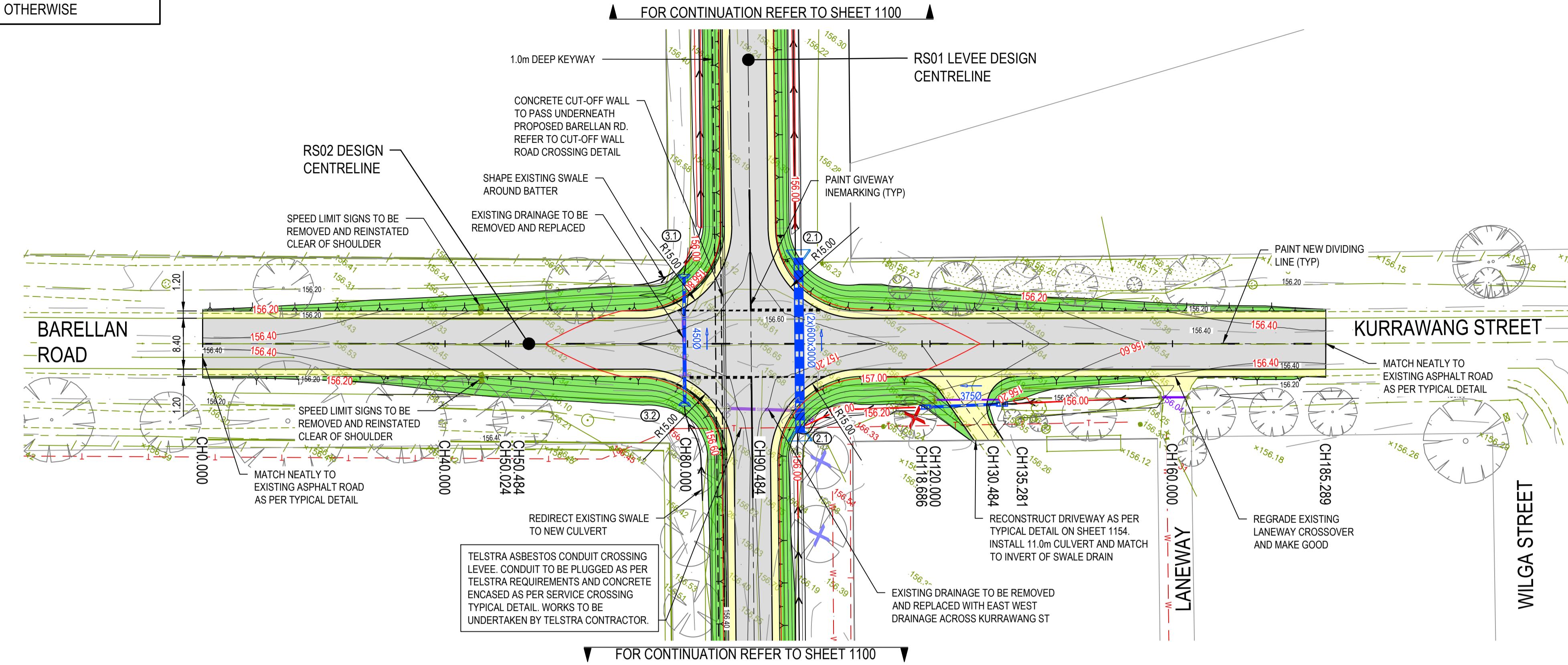
DETAILED DESIGN
LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
SHEET 11 OF 11

FOR CONSTRUCTION

FOR CONSTRUCTION			
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DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1110			A

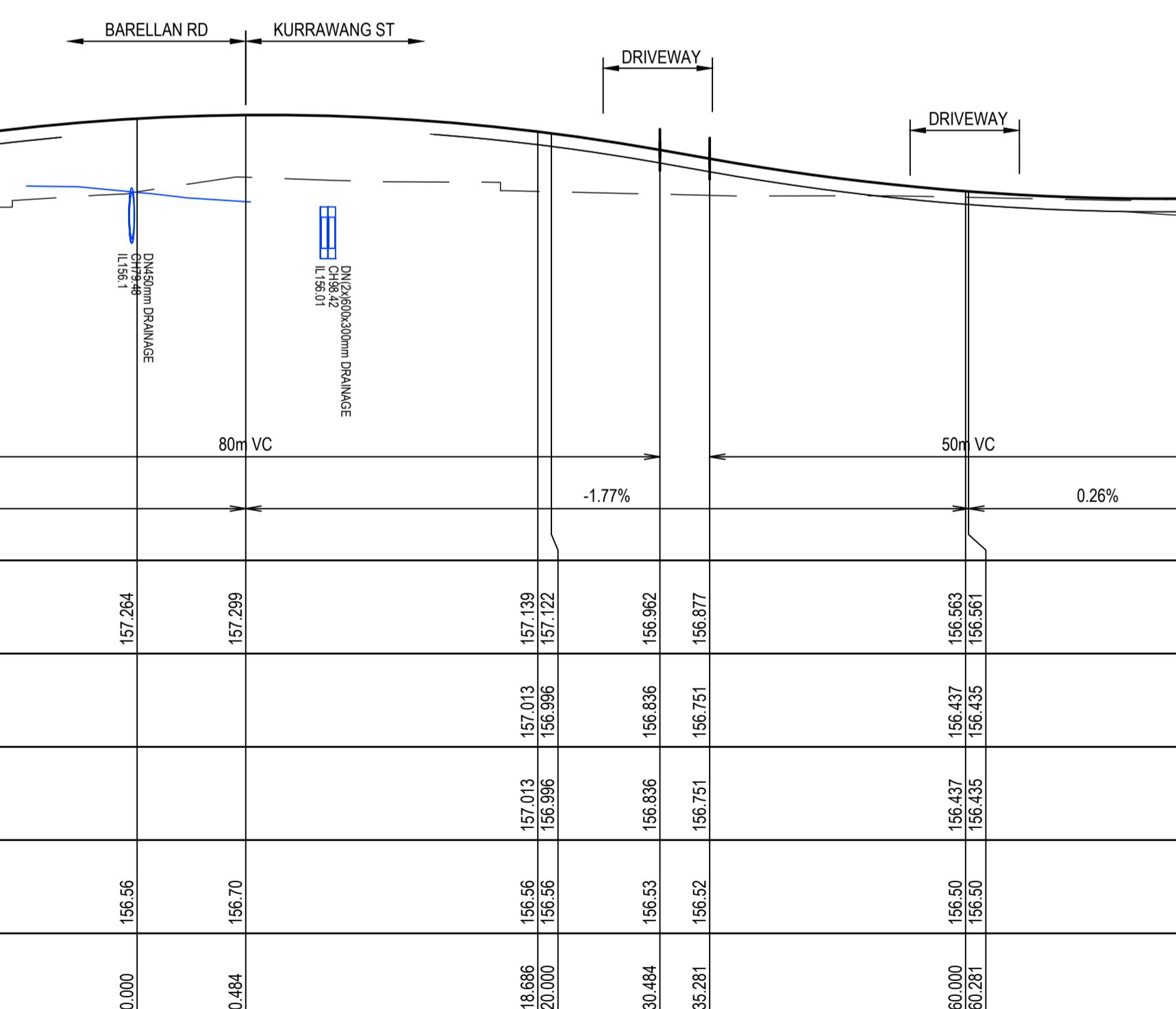
BARELLAN RD AND KURRAWANG ST LINEMARKING
NEW LINEMARKING AND NEW RRPMS TO MATCH EXISTING CONDITIONS
OF EXISTING ROAD, UNLESS NOTED OTHERWISE

LEGEND	
	EXISTING SURVEY
	EXISTING CONTOURS - 235.0 - 235.0 MAJOR & LABEL MINOR & LABEL
	PROPOSED CONTOURS - 235.0 - - 235.0 - MAJOR & LABEL MINOR & LABEL
	PROPOSED FENCE AND WELDMESH GATE
	PROPOSED TIMBER FENCE AND WELDMESH GATE
	EXISTING TREE LINE
	EXISTING TREE TO BE REMOVED
	EXISTING TREE IN CLOSE PROXIMITY - ARBORIST TO ADVISE
	PROPOSED NATIVE TREE, INDICATIVE TREE LOCATION
	PROPOSED EASEMENT
	PROPOSED LEVEE WITH BENCH AND KEYWAY UNDERNEATH
	PROPOSED SWALE DRAIN
	PROPOSED PIT NUMBERS AND ROCK BEACHING TYPE IDs
	PROPOSED DRAINAGE PIPE AND HEADWALLS
	EXISTING DRAINAGE
	PROPOSED LINEMARKING
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING O/HAD ELECTRICITY
	PROPOSED ASPHALT ROADWAY
	PROPOSED ASPHALT ROADWAY AND SHOULDER WITH DRY POLYMER BINDER (DPP)
	PROPOSED ASPHALT SHOULDER - BURLEY GRIFFIN WAY
	PROPOSED GRAVEL ROADWAY, SHOULDERS AND DRIVEWAYS



LAYOUT PLAN

SCALE 1:500m



RS02 LONGITUDINAL SECTION - BARELLAN RD/KURRAWANG ST

SCALE H 1:500m V 1:50m

HORIZONTAL CURVES
VERTICAL CURVES
DESIGN GRADING OF CONTROL STRING
DATUM RL 153.00

DESIGN ROAD CENTRELINE
DESIGN LEFT EDGE OF BITUMEN
DESIGN RIGHT EDGE OF BITUMEN
EXISTING SURFACE PROFILE AT CENTRELINE
CHAINAGE

0 10 20m
SCALE 1:500 @A10 1 2m
SCALE 1:50 @A1

NORTH

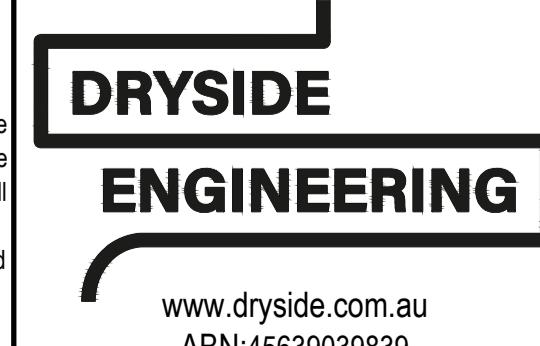
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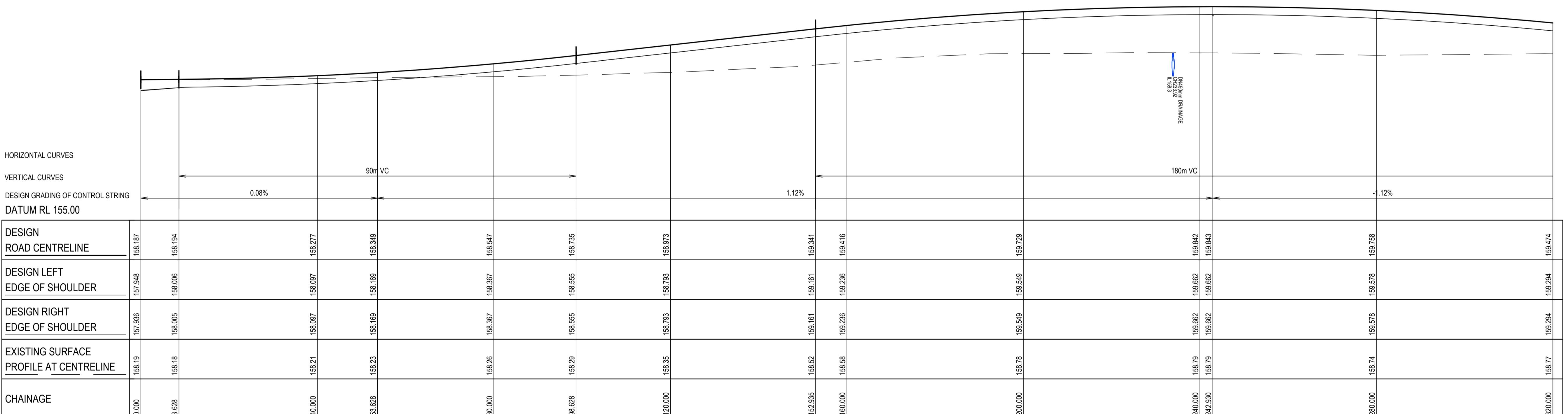
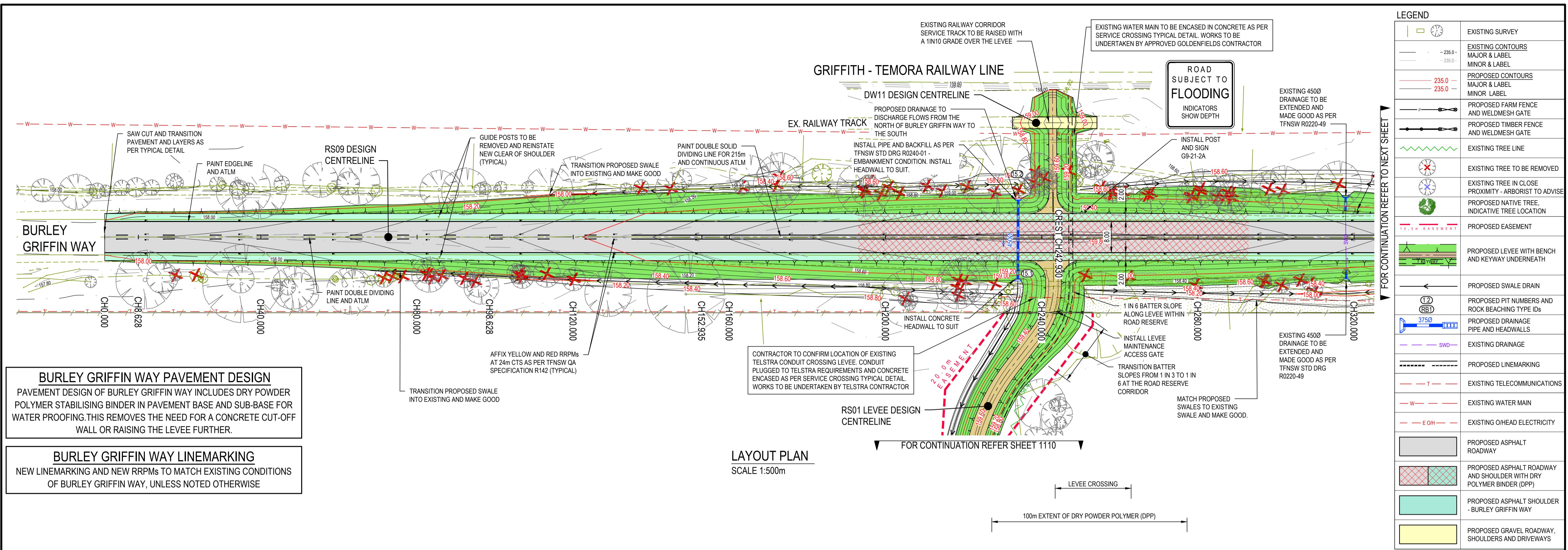
NARRANDERA SHIRE COUNCIL

BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
RS02 BARELLAN ROAD LAYOUT PLAN
AND LONGITUDINAL SECTION

DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1111			A

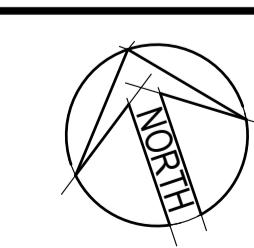
FOR CONSTRUCTION

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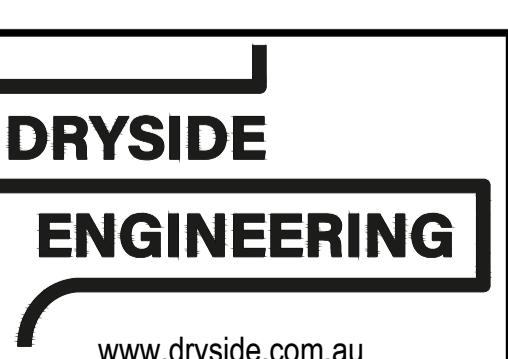


RS09 LONGITUDINAL SECTION - BURLEY GRIFFIN WAY

SCALE H 1:500m V 1:50m



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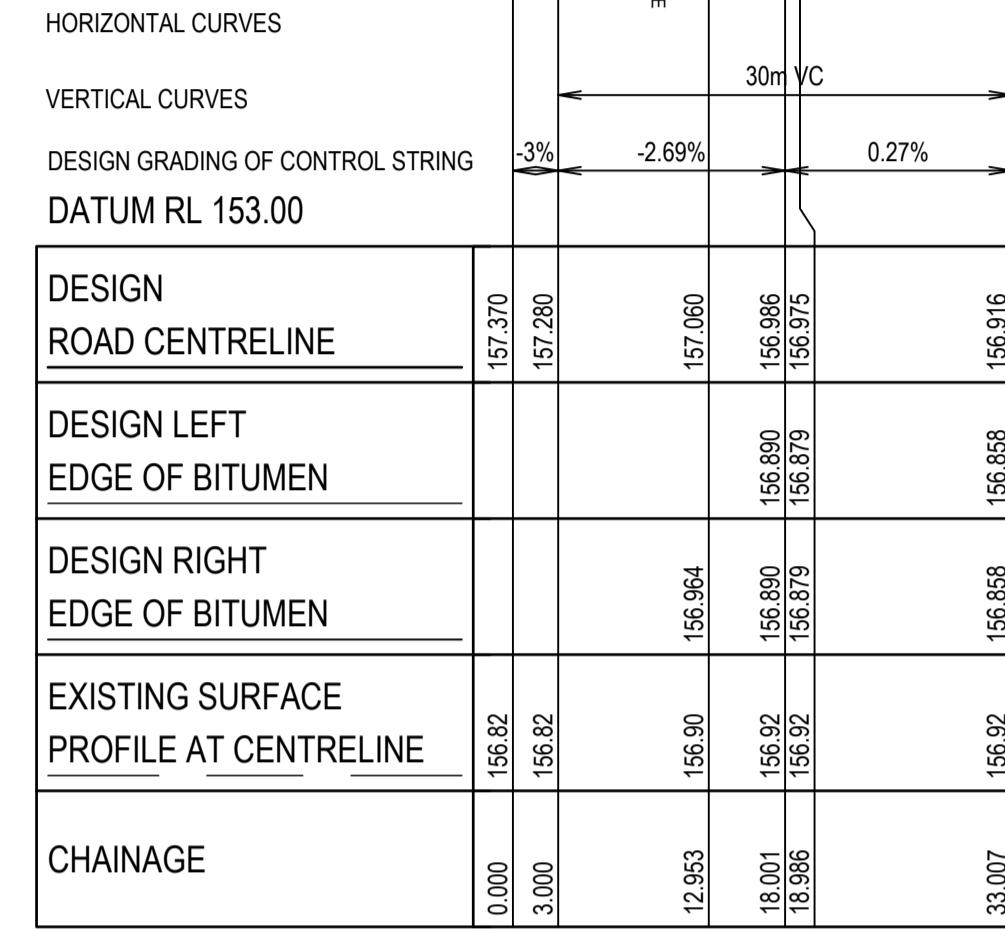
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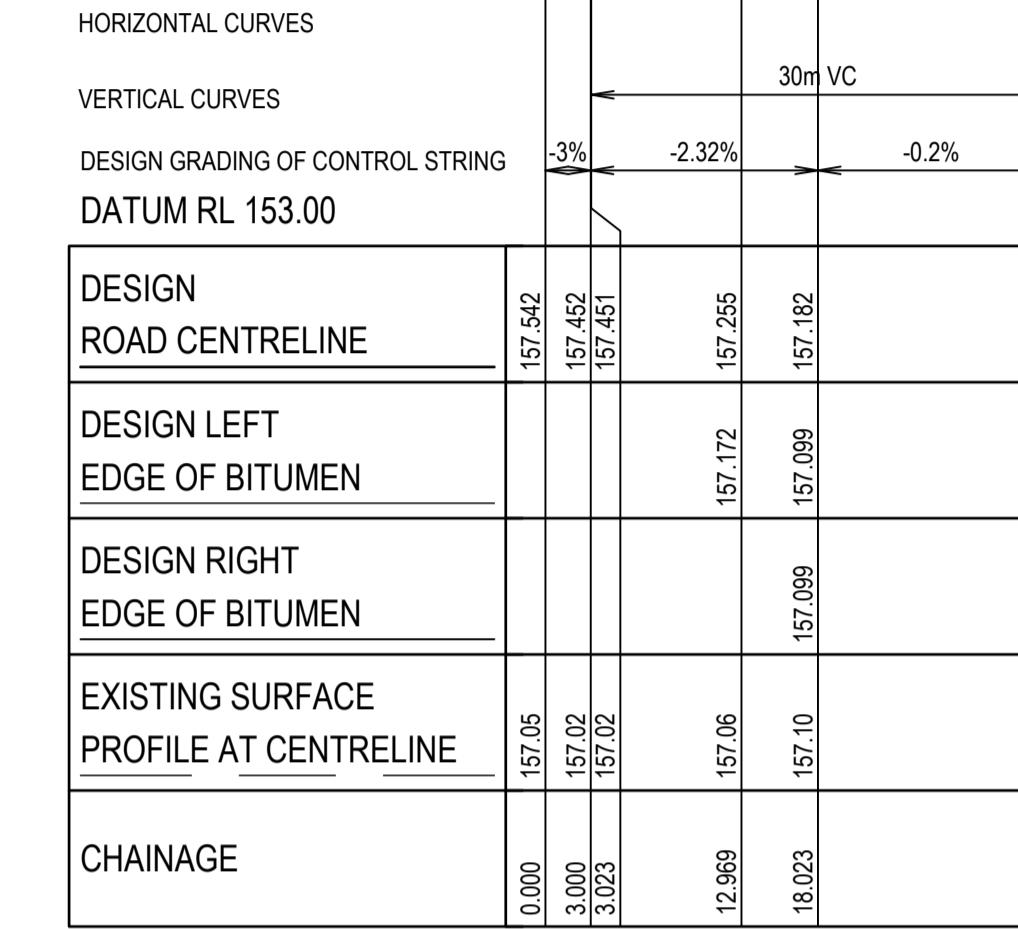
**BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665**

**DETAILED DESIGN
RS09 BURLEY GRIFFIN WAY LAYOUT PLAN
AND LONGITUDINAL SECTION - SHEET 1 OF 2**

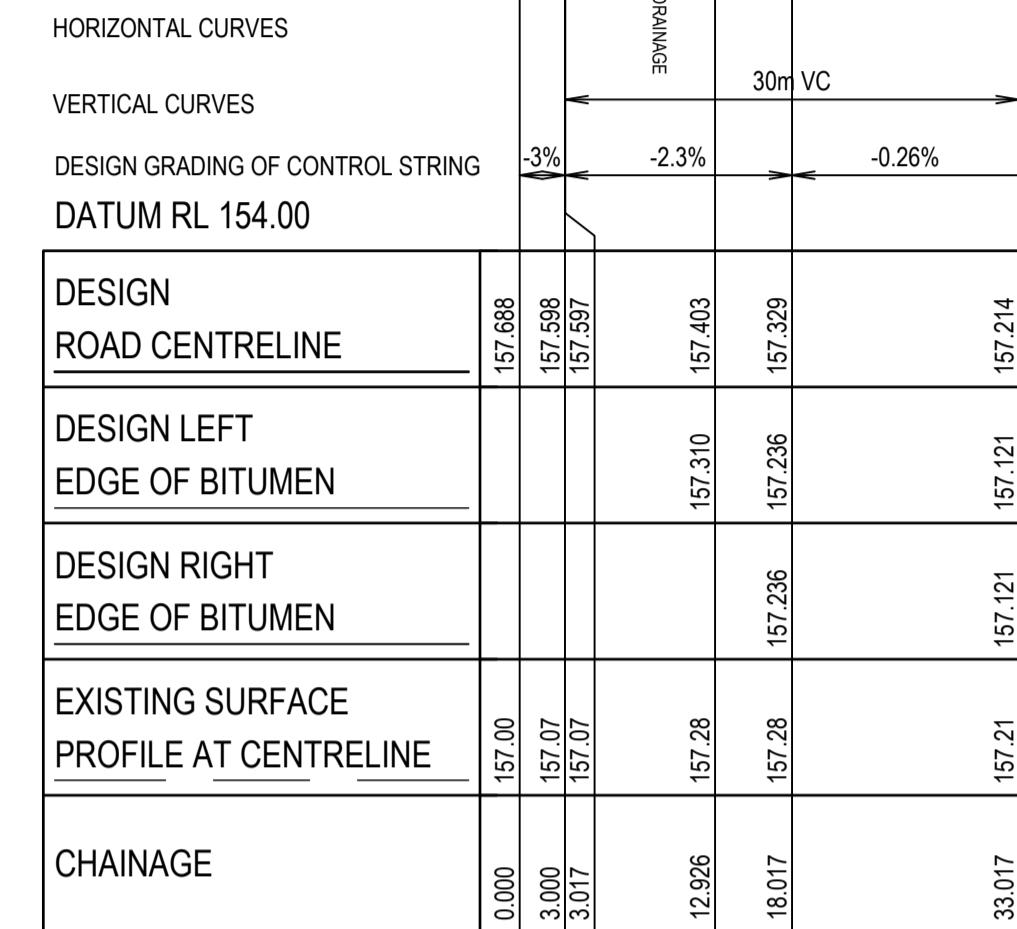
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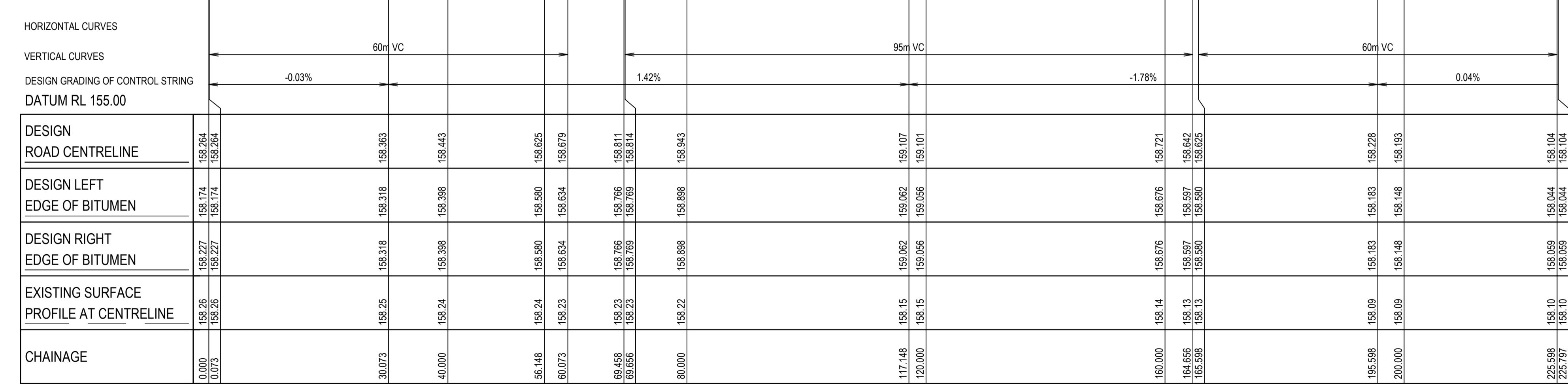
RS03 LONGITUDINAL SECTION - MYALL STREET
SCALE H 1:500m V 1:50m



RS04 LONGITUDINAL SECTION - BOREE STREET
SCALE H 1:500m V 1:50m



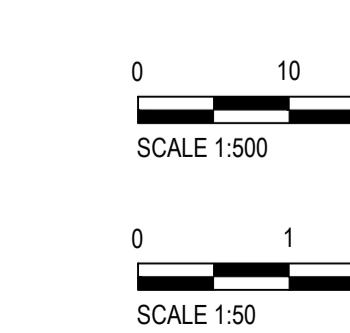
RS05 LONGITUDINAL SECTION - YARRAN STREET
SCALE H 1:500m V 1:50m



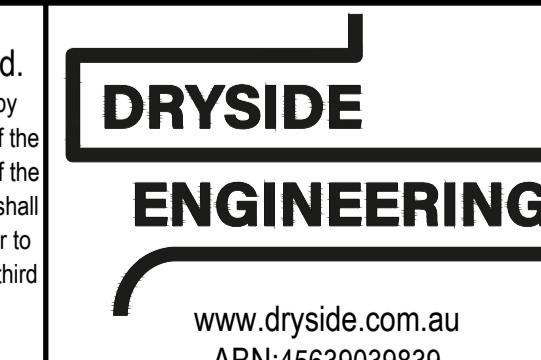
RS08 LONGITUDINAL SECTION - BARELLAN CEMETERY ROAD
SCALE H 1:500m V 1:50m

FOR CONSTRUCTION

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		DESCRIPTION	DES	VER	APP	



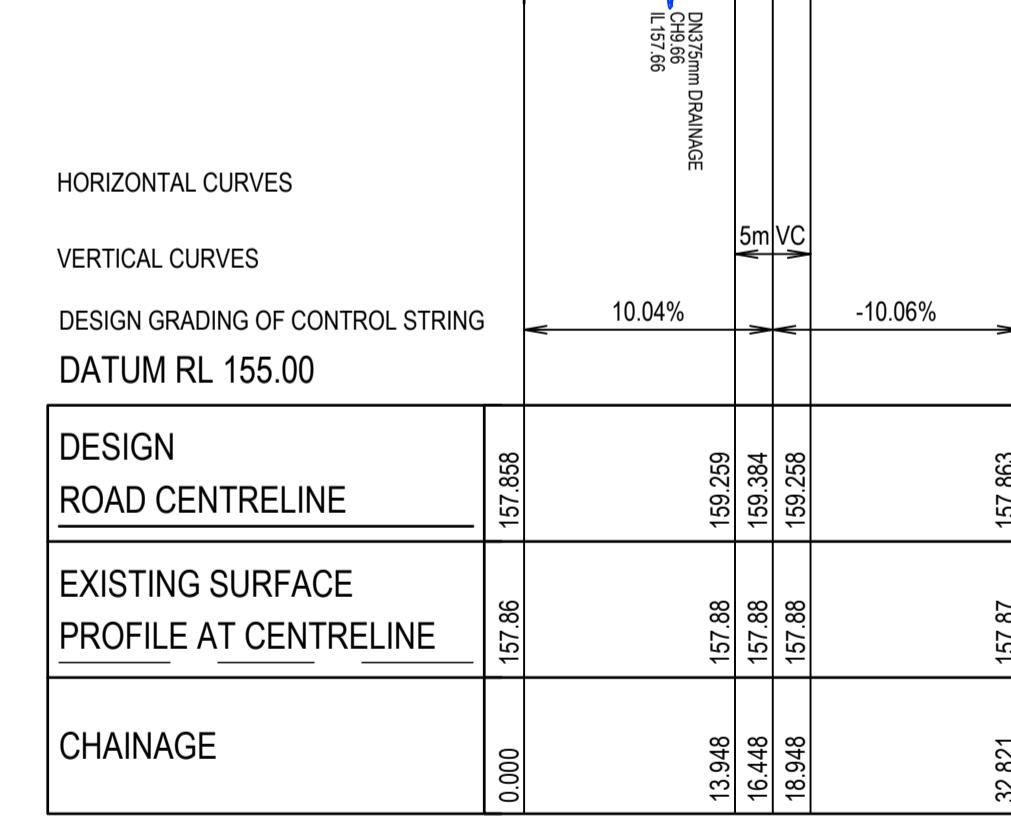
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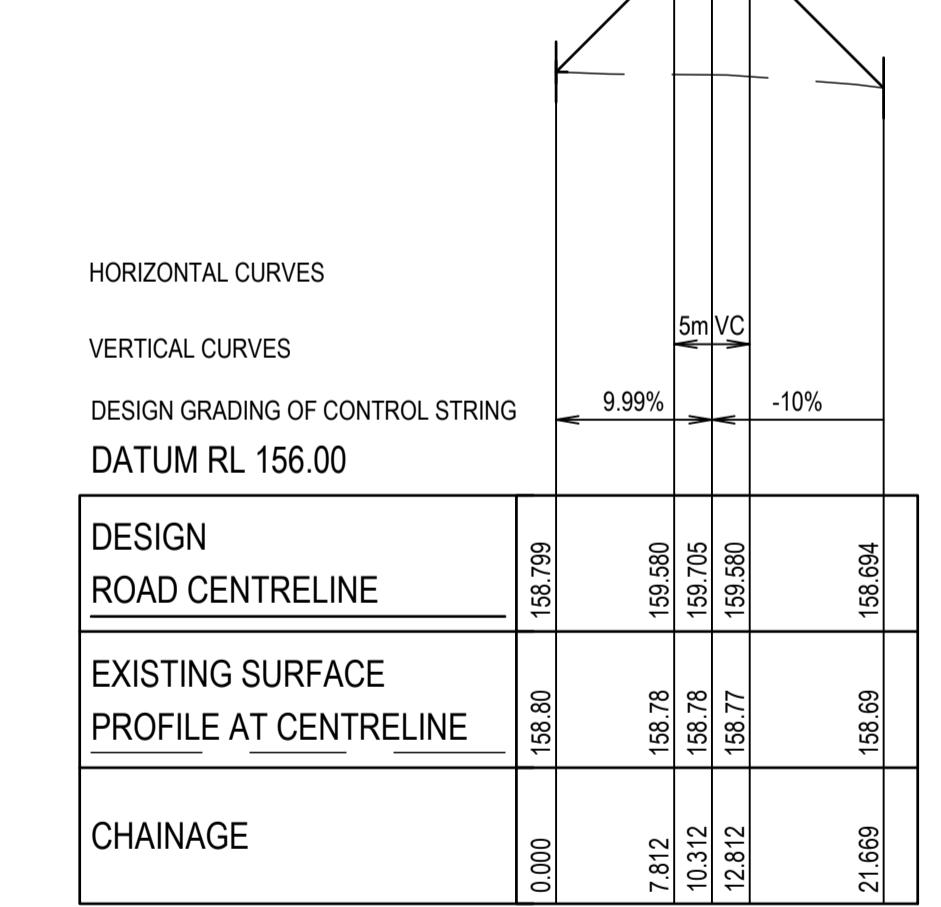
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BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
SIDE ROAD LONGITUDINAL SECTIONS
SHEET 1 OF 2

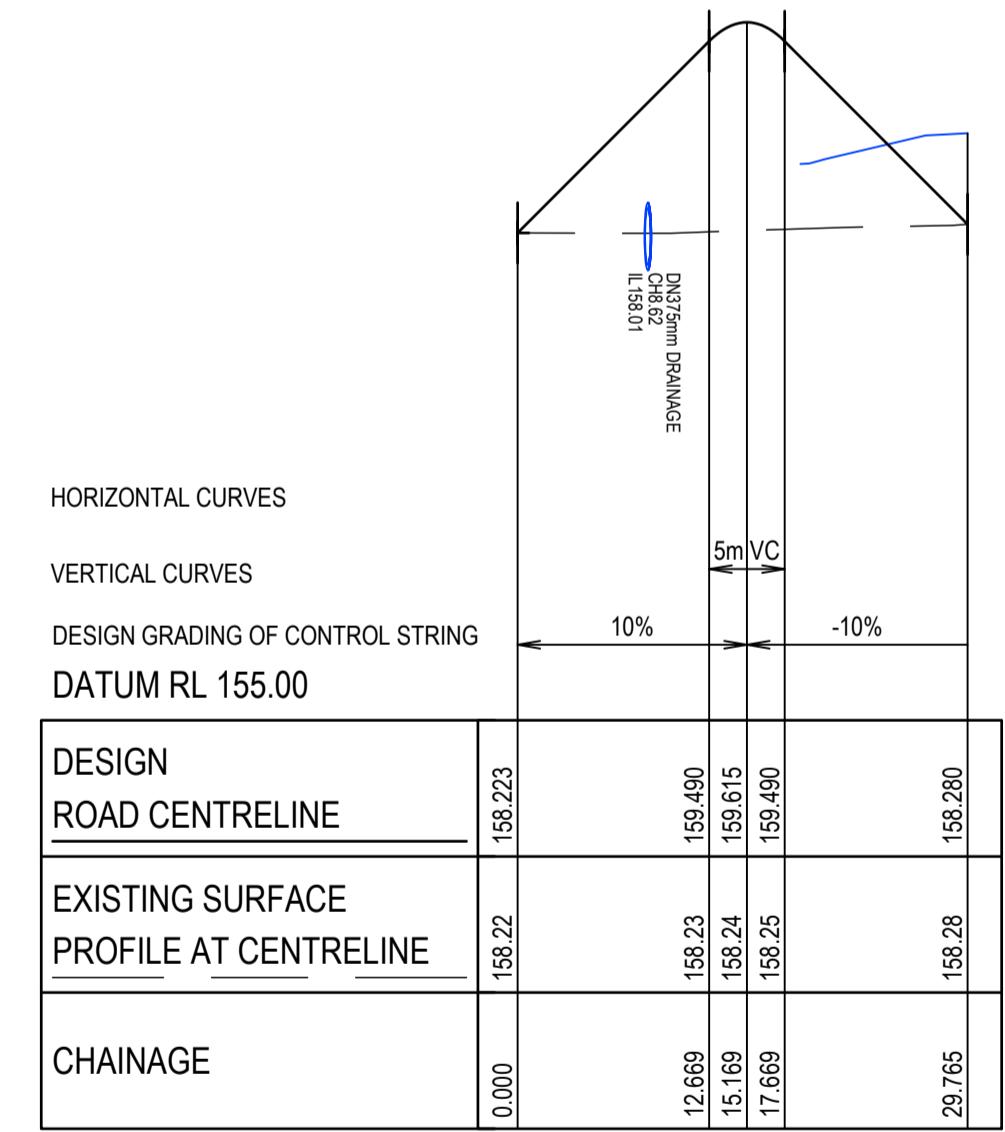
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A.WARD DATE 25/05/2023 PROJECTION GD94 SHEET SIZE A1
DSE23011-1130 A



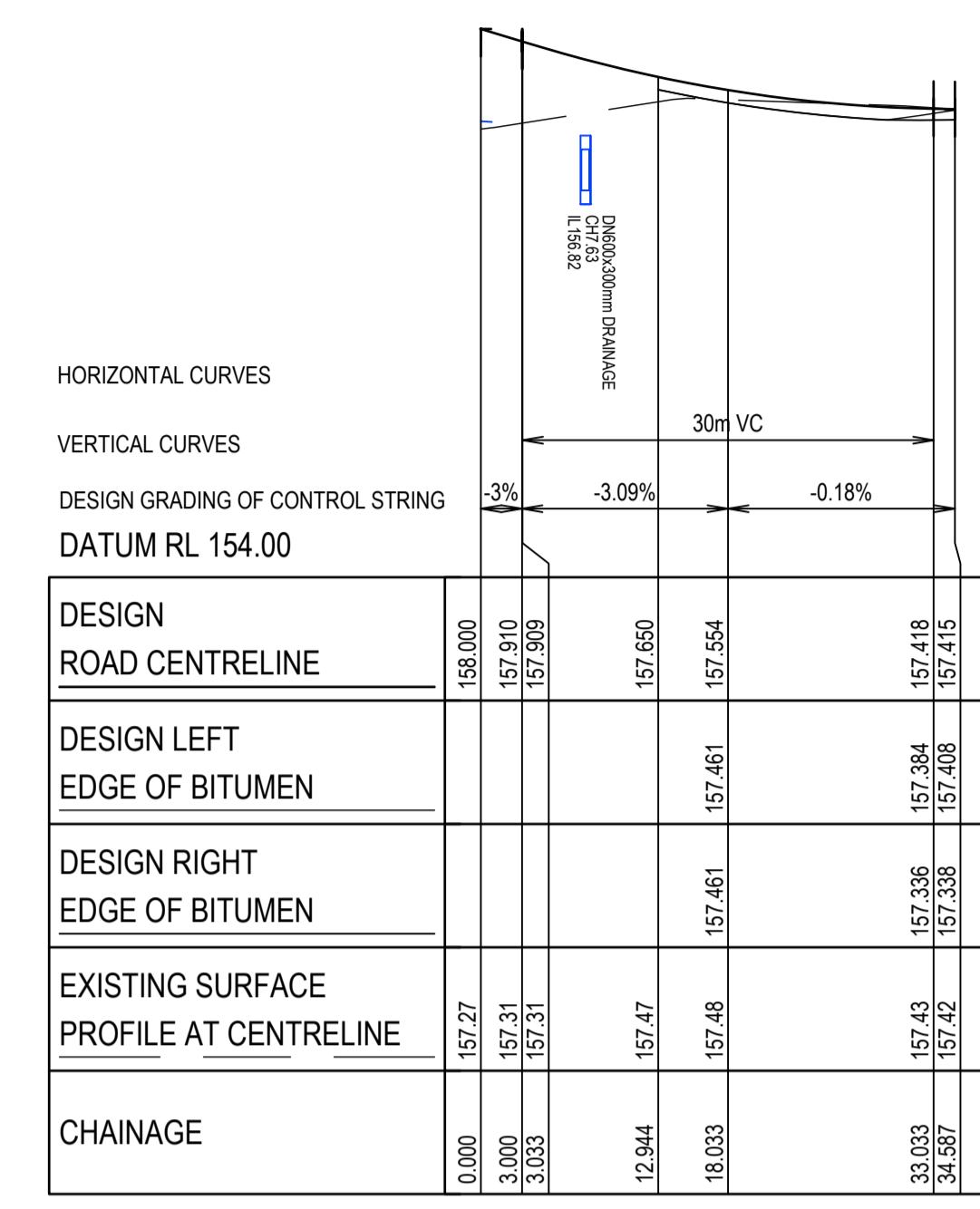
DW07 LONGITUDINAL SECTION - HARVESTER ACCESS
 SCALE H 1:500m V 1:50m



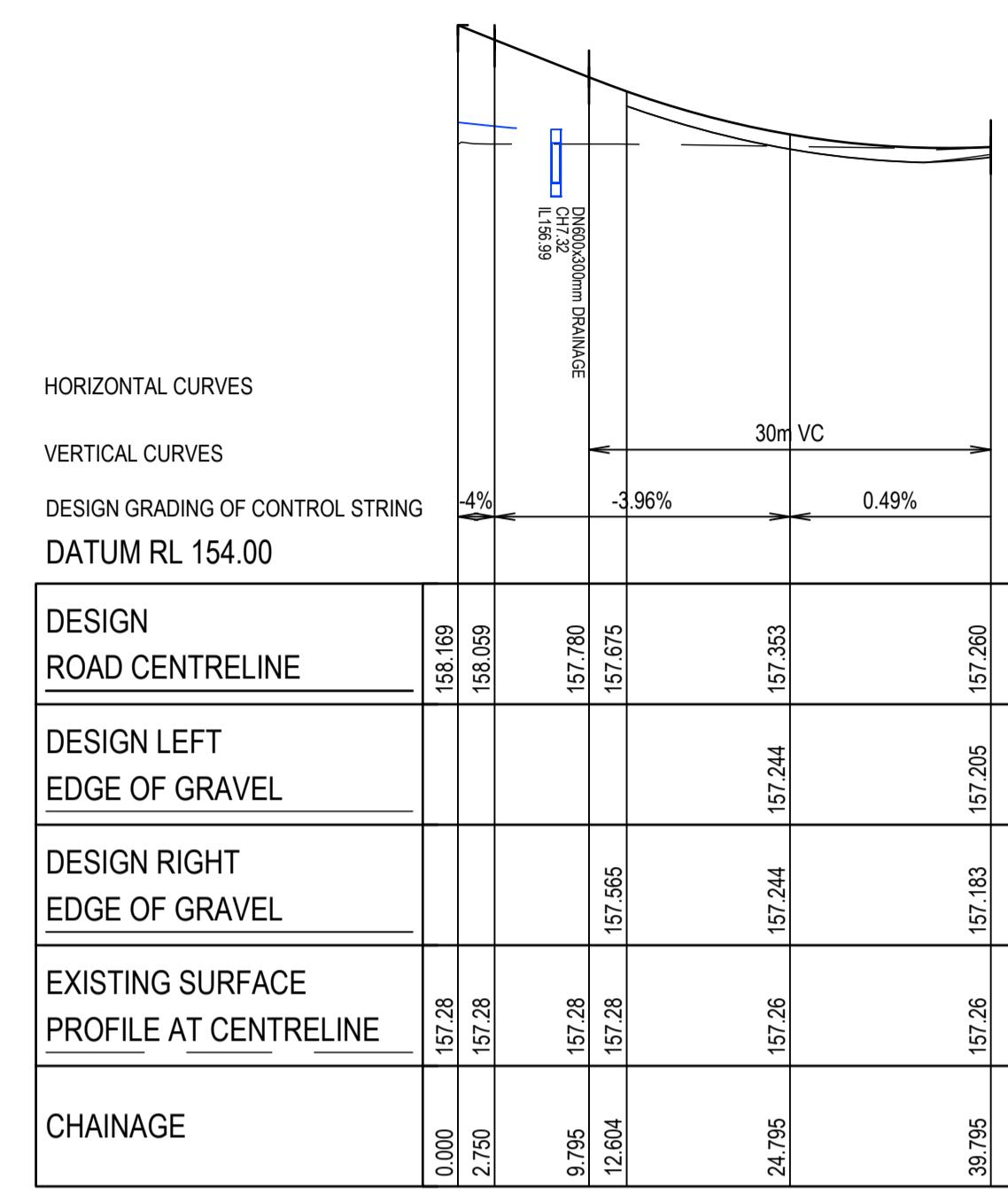
DW11 LONGITUDINAL SECTION - MAINTENANCE TRACK
 SCALE H 1:500m V 1:50m



DW12 LONGITUDINAL SECTION - PADDOCK ACCESS
 SCALE H 1:500m V 1:50m



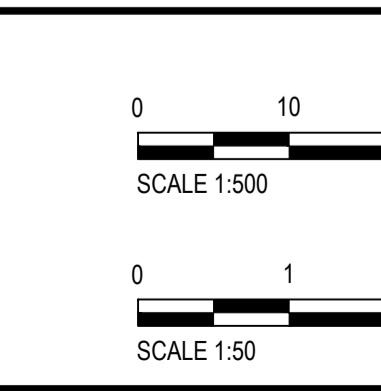
RS06 LONGITUDINAL SECTION - KOABA STREET
 SCALE H 1:500m V 1:50m



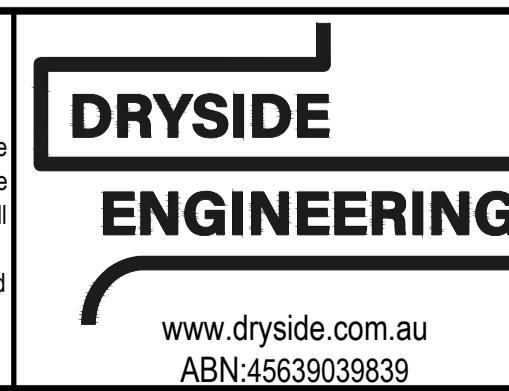
RS07 LONGITUDINAL SECTION - BOX STREET
 SCALE H 1:500m V 1:50m

FOR CONSTRUCTION

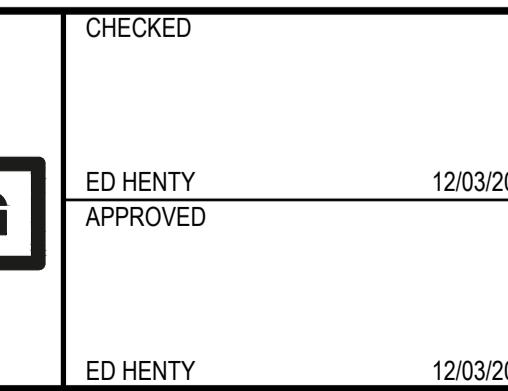
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		DESCRIPTION	DES	VER			



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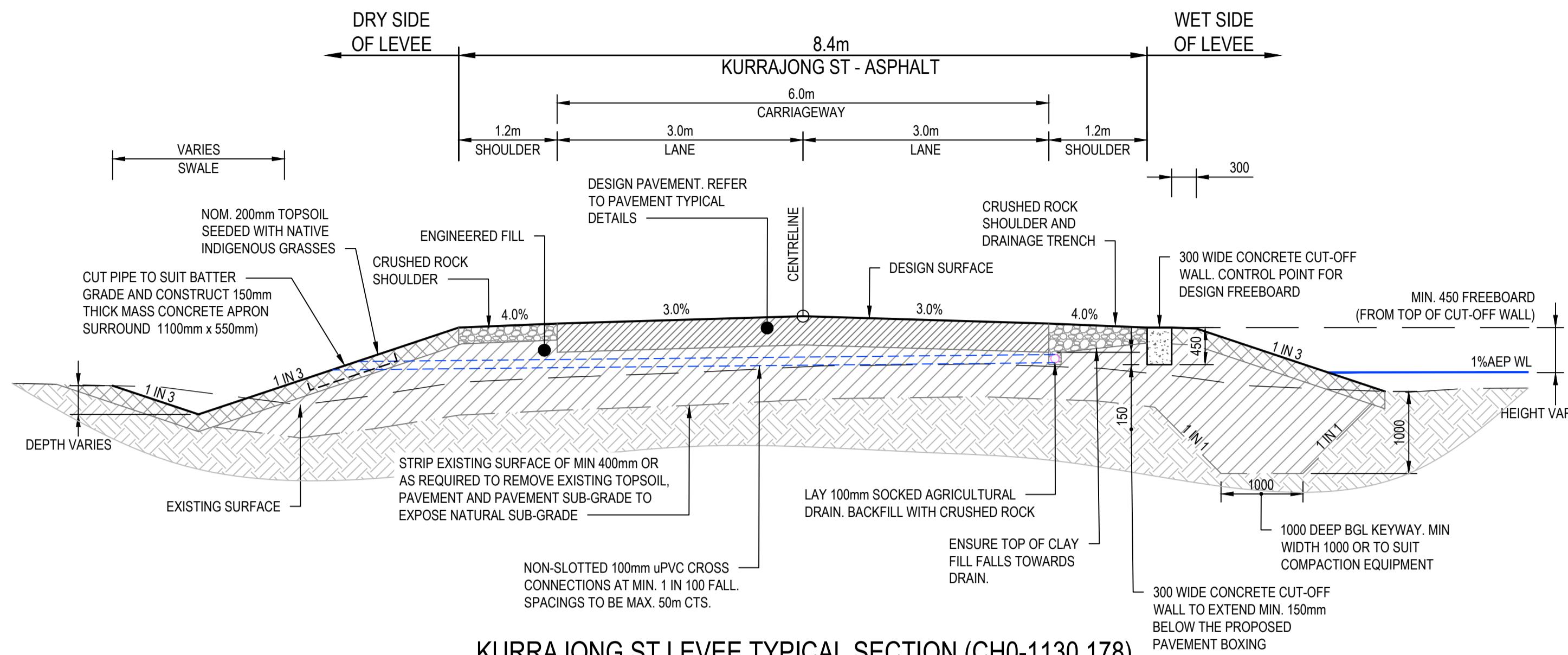


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 BARELLAN LEVEE DESIGN
 KURRAJONG ST AND BARELLAN CEMETERY RD
 BARELLAN, NSW 2665
 DETAILED DESIGN
 SIDE ROAD LONGITUDINAL SECTIONS
 SHEET 2 OF 2

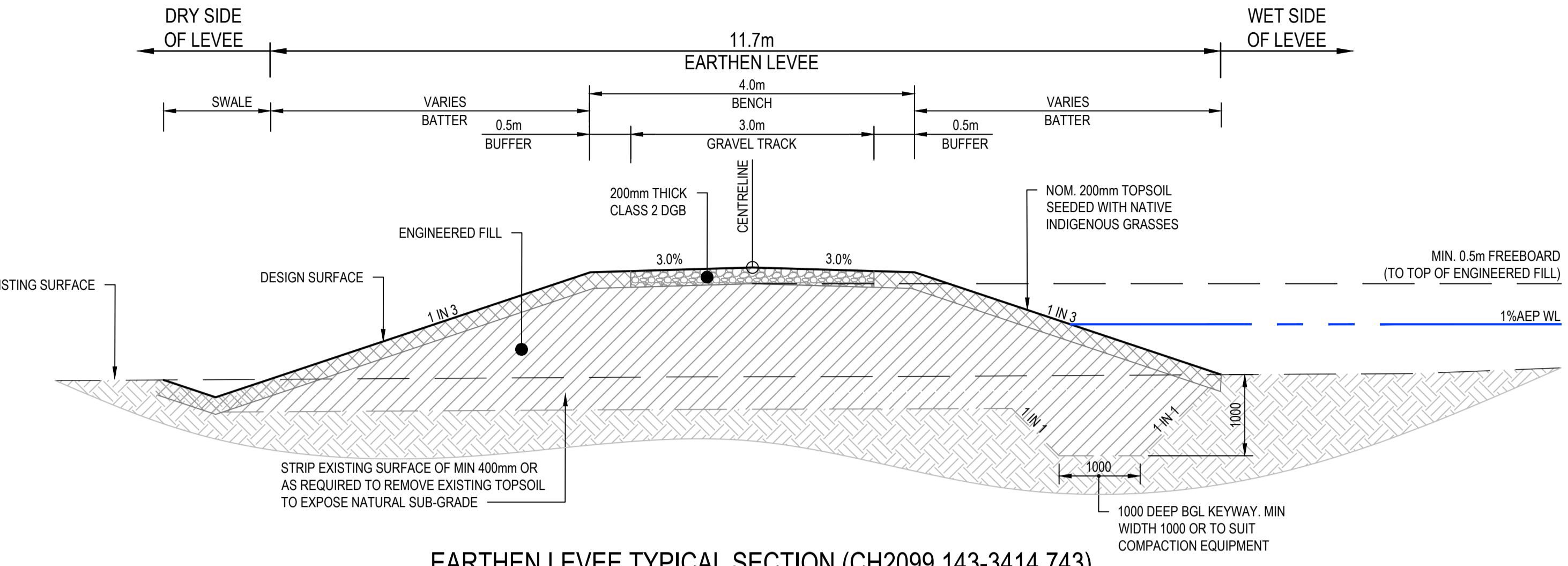
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DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE2301-1131			A

CAD File: C:\Users\saaron\Dryside Engineering Dropbox\Dryside11.Jobs\2023\DS2011_Barellan_Level14.4.0\Engineering2.Drawings\DS2011-1300.dwg



KURRAJONG ST LEVEE TYPICAL SECTION (CH0-1130.178)

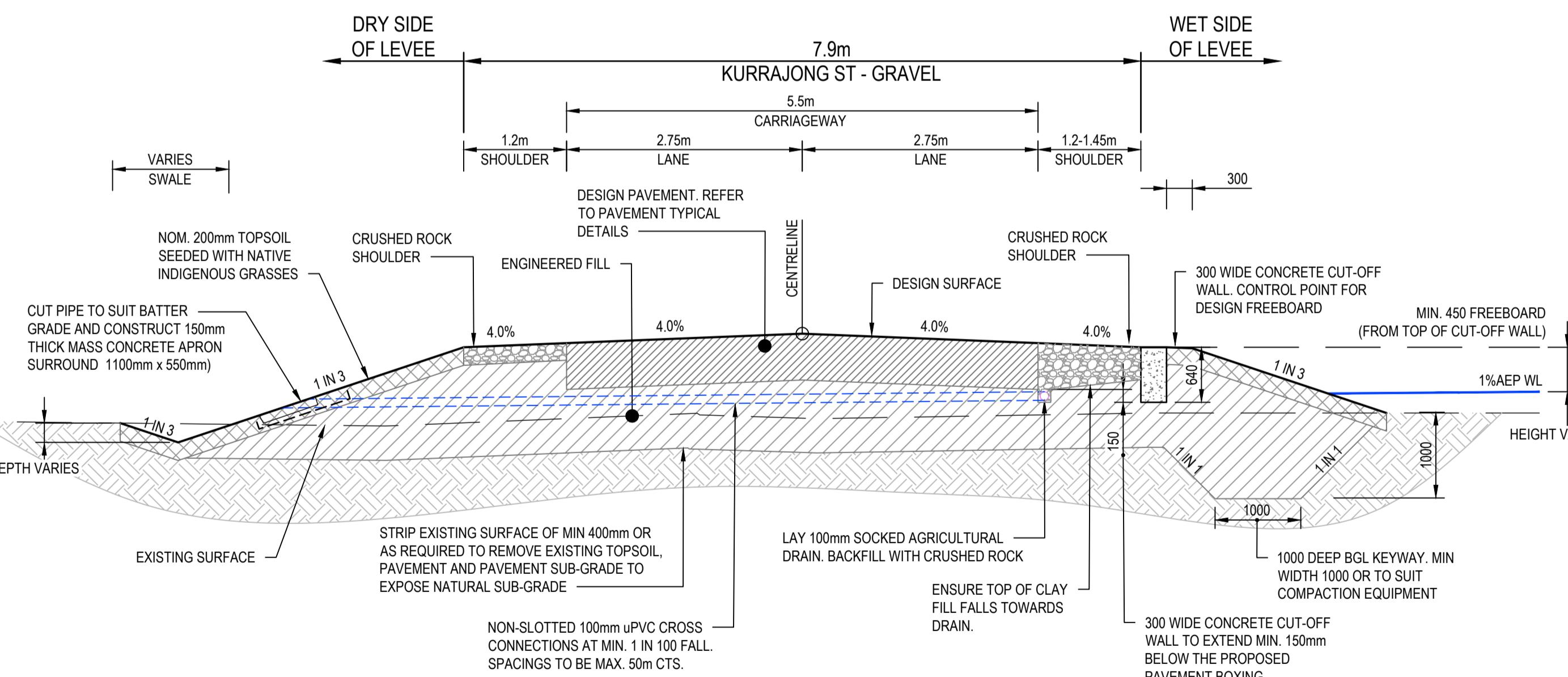
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EARTHEN LEVEE TYPICAL SECTION (CH2099.143-3414.743)

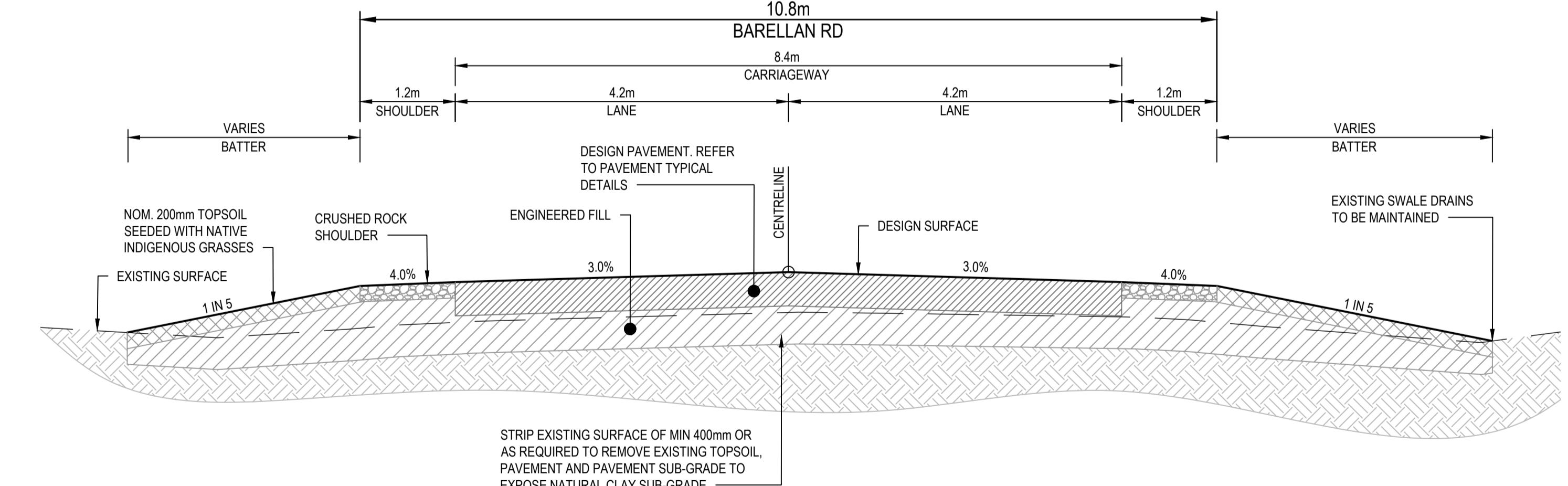
SCALE 1:50

1. LEVEE BATTER SLOPES WITHIN THE BURLEY GRIFFIN WAY ROAD CORRIDOR HAVE BEEN DESIGNED WITH A 1 IN 6 BATTER SLOPE AS PER TfNSW BATTER SLOPE CRITERIA
 2. LEVEE BATTER SLOPES WITHIN THE RAIL CORRIDOR HAVE BEEN SET AT 1 IN 6 AS PER UGL REGIONAL LINX DESIGN CRITERIA



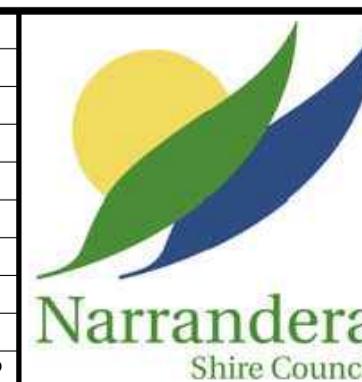
KURRAJONG ST LEVEE TYPICAL SECTION (CH1130.178-2099.143)

SCALE 1:50



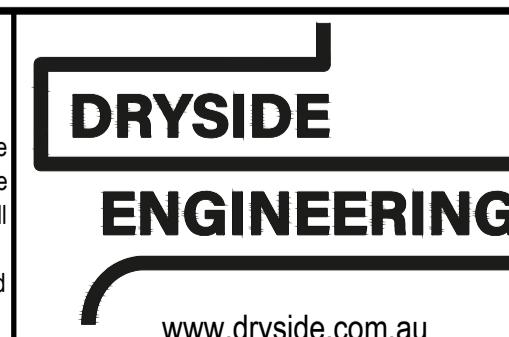
KURRAWANG ST/BARELLAN ROAD TYPICAL SECTION

SCALE 1:50



A horizontal scale bar with tick marks at 0 and 1, and a central crosshair.

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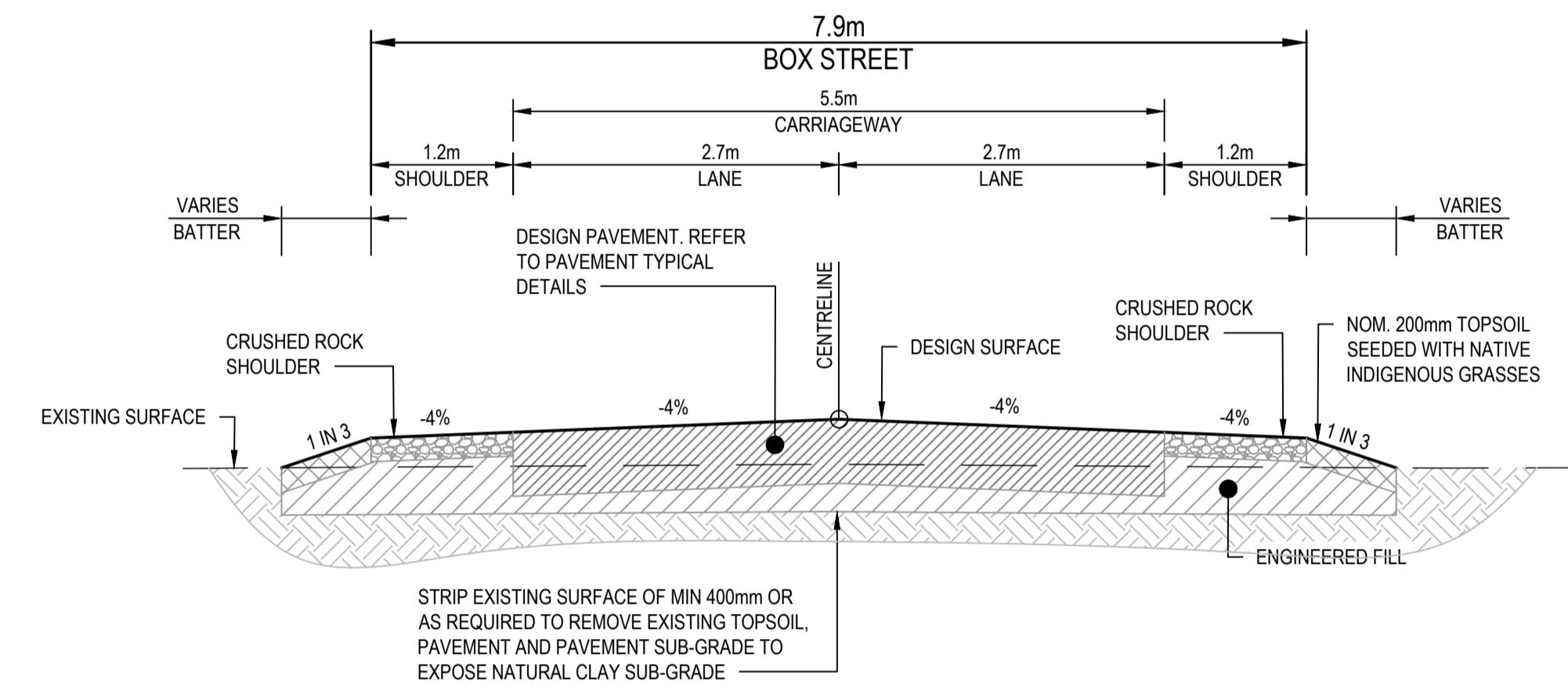
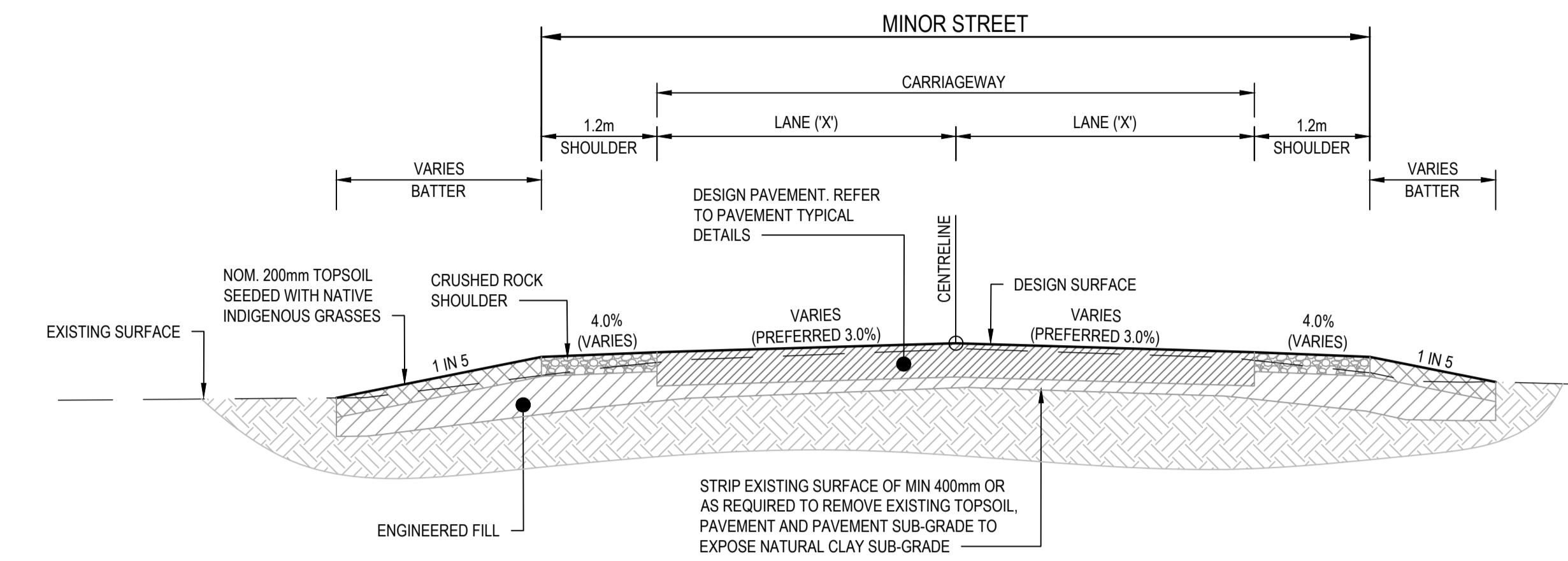
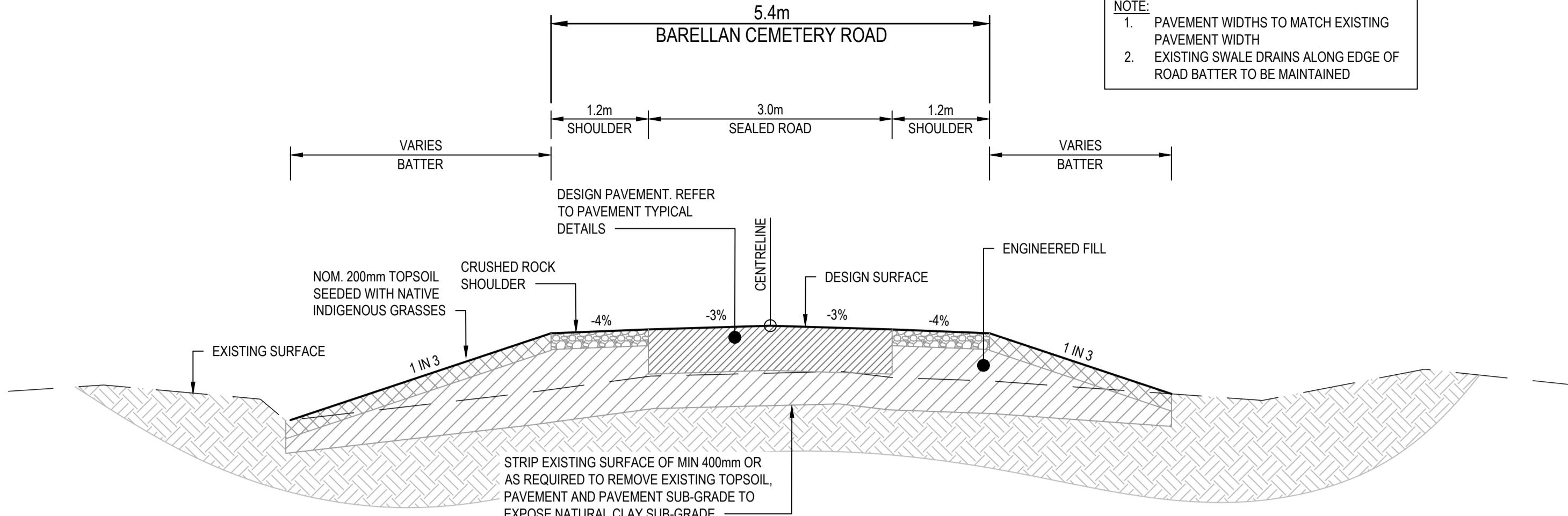
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BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665

DETAILED DESIGN
TYPICAL SECTIONS AND DETAILS
SHEET 1 OF 6

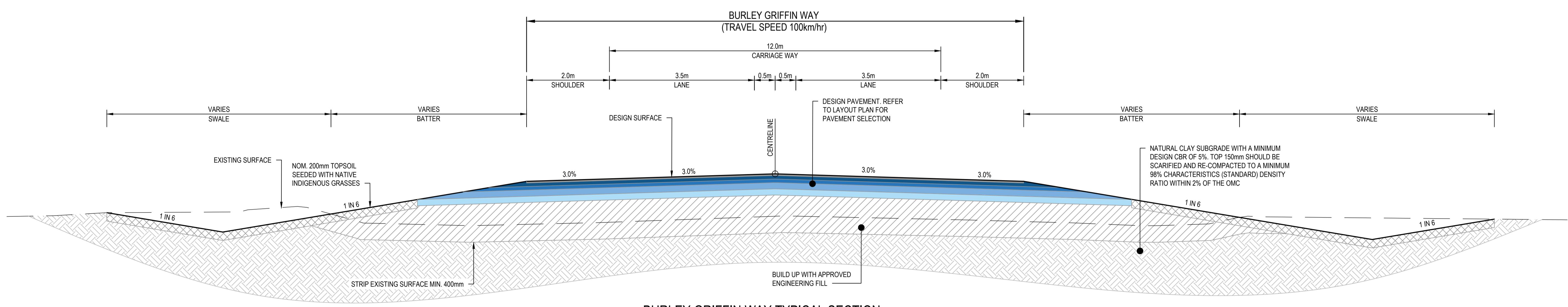
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DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1150			A



SIDE STREETS TYPICAL SECTION

SCALE 1:50

ROAD NAME	LANE 'X' (m)	SHOULDER (m)
RS03 - MYALL LANE	3.2	1.2
RS04 - BOREE LANE	2.75	1.2
RS05 - YARRAN LANE	3.1	1.2
RS06 - KOABA LANE	3.1	1.2

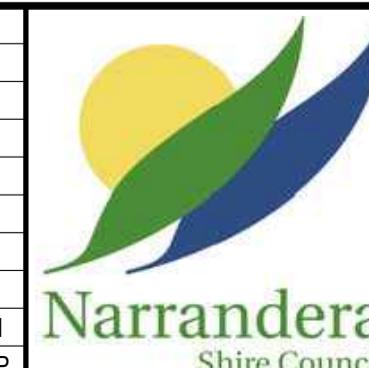


BURLEY GRIFFIN WAY TYPICAL SECTION

SCALE 1:50

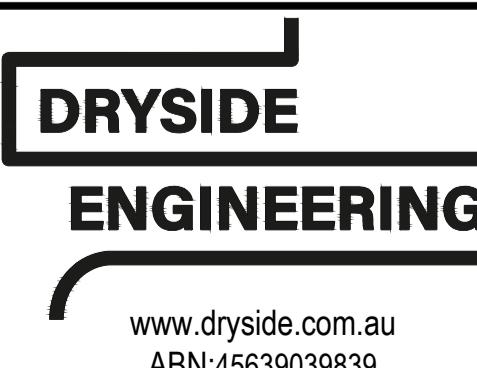
FOR CONSTRUCTION

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SCALE 1:50 @A1

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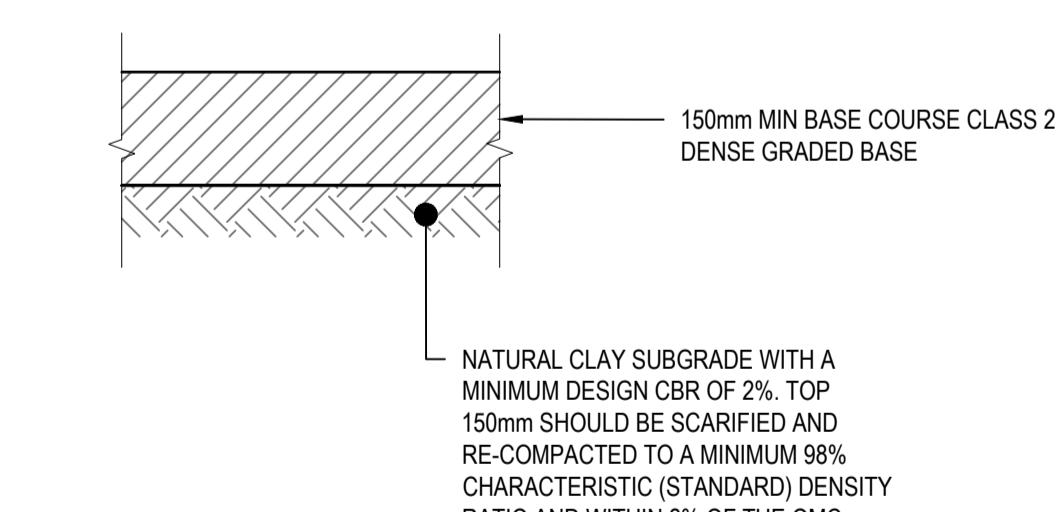
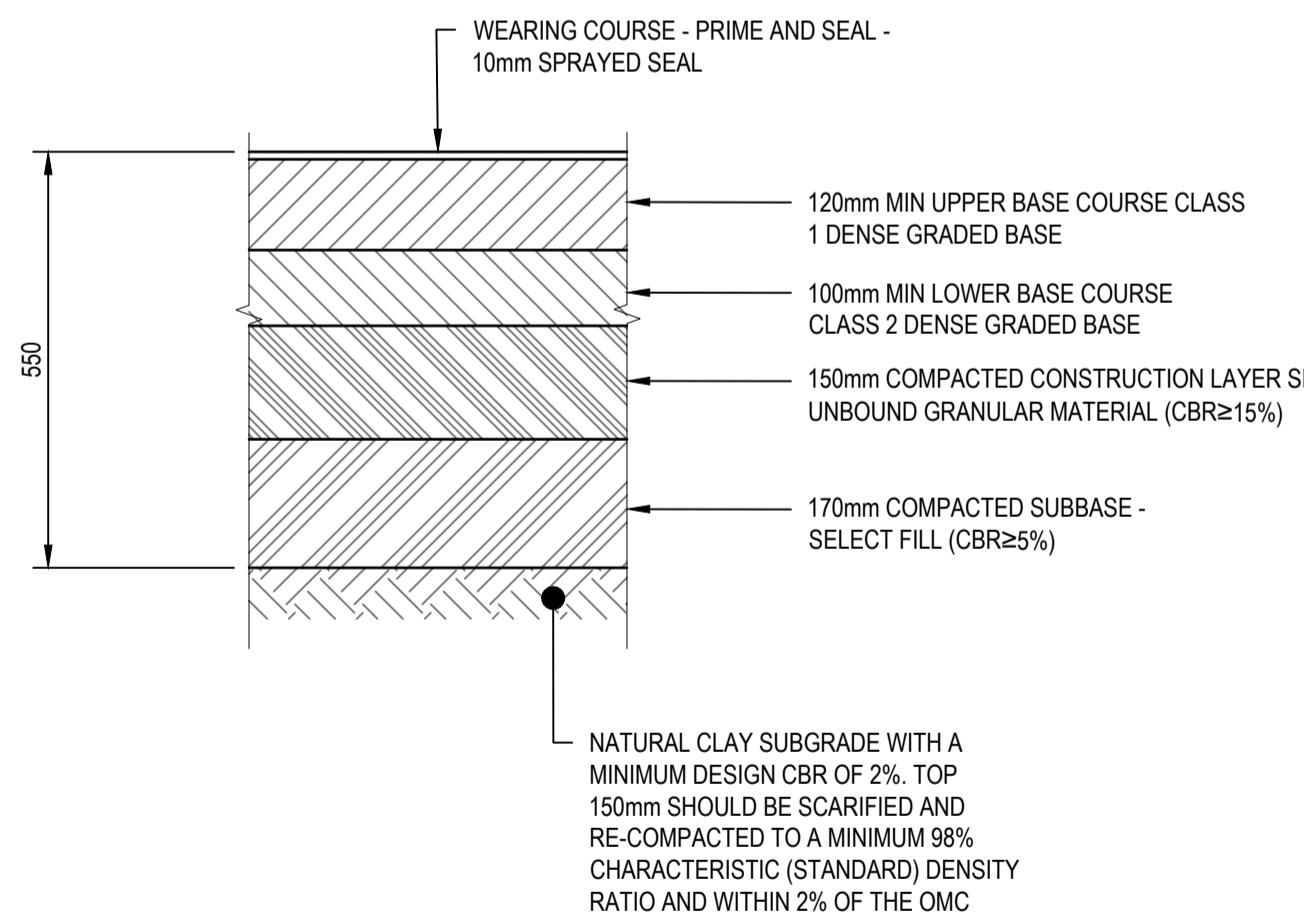
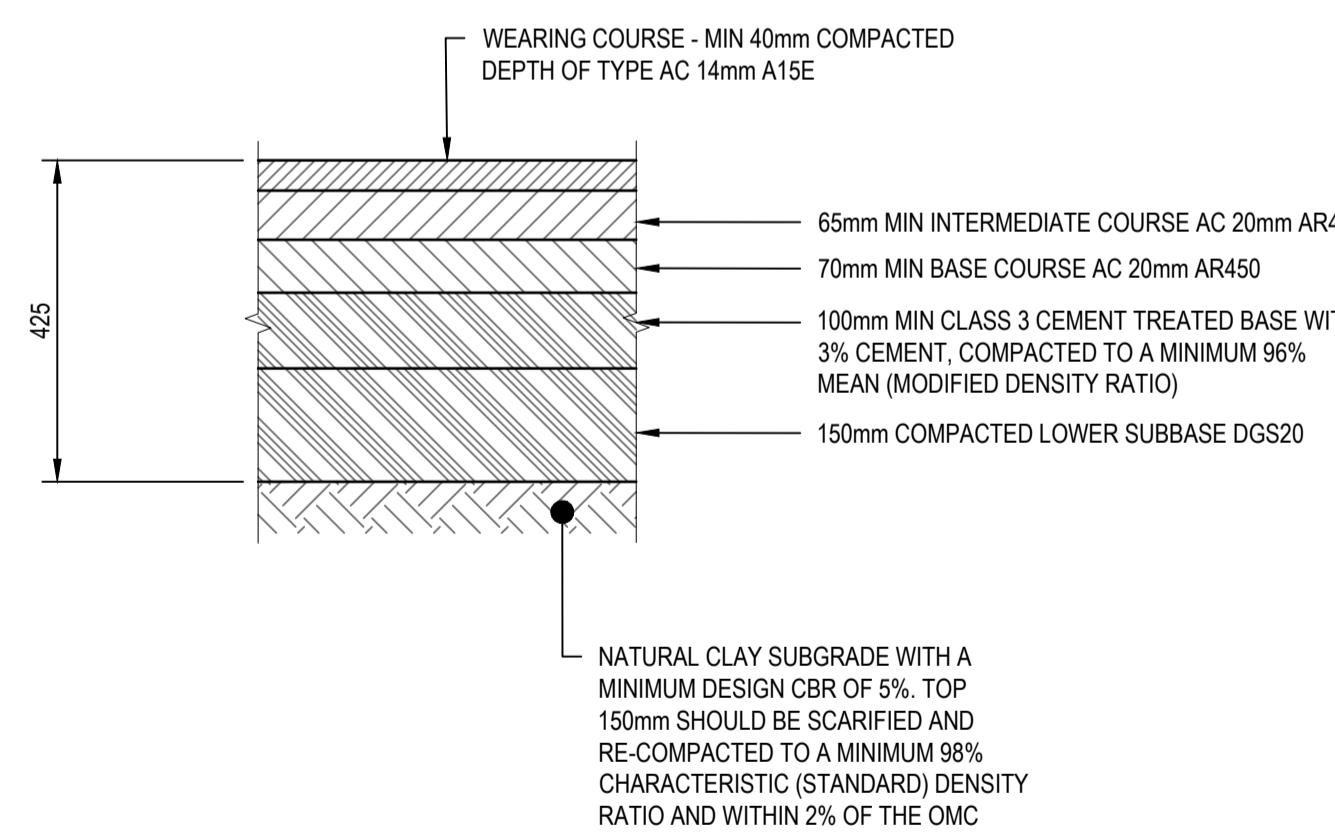
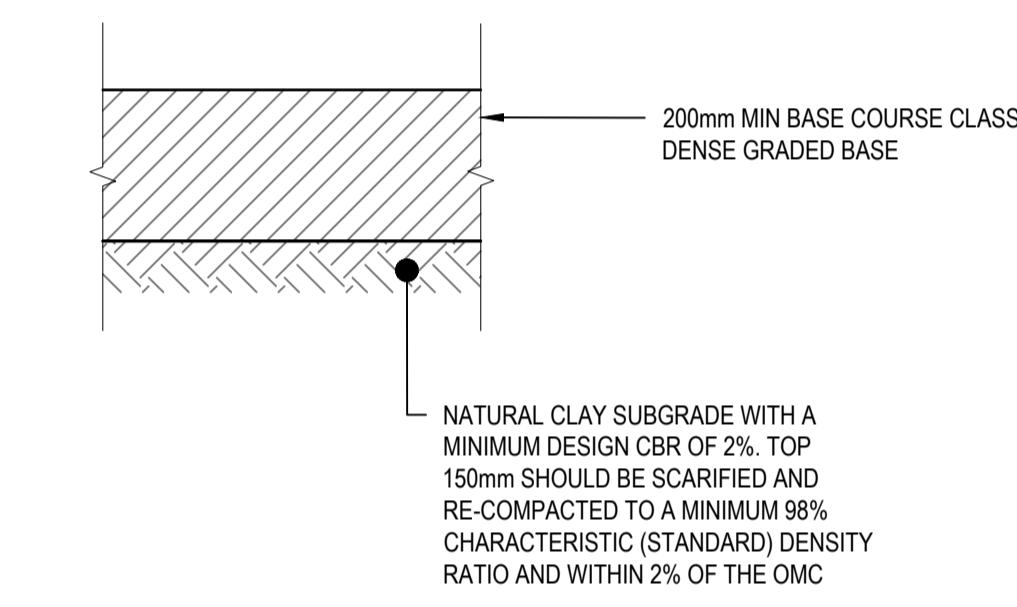
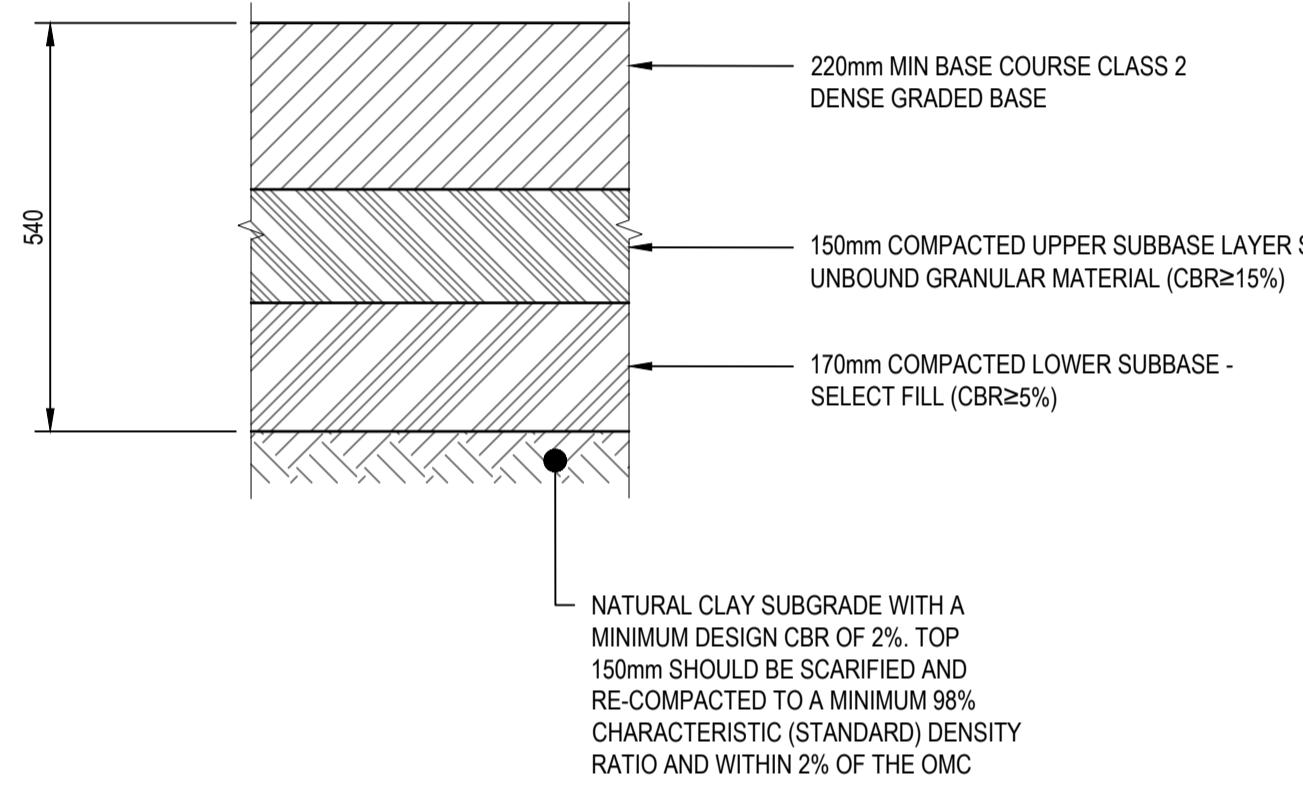
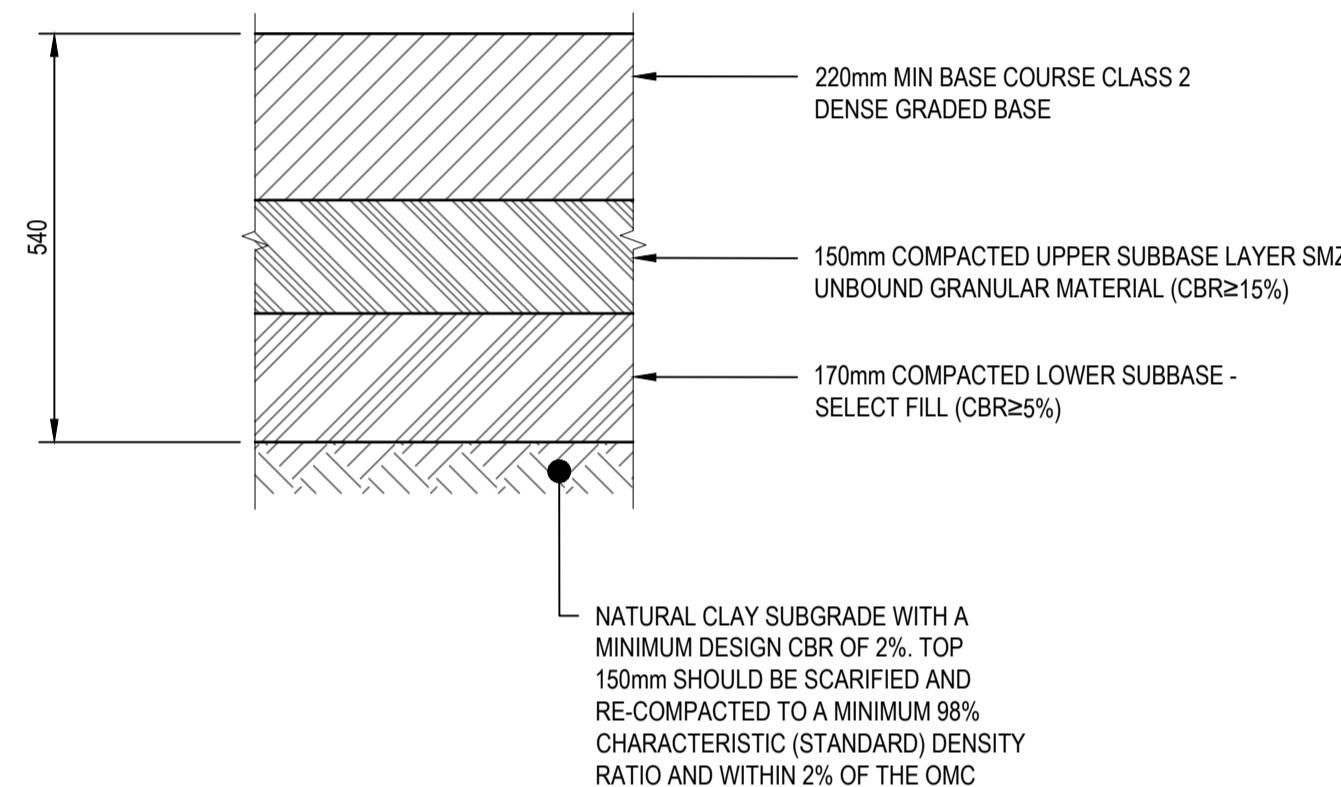
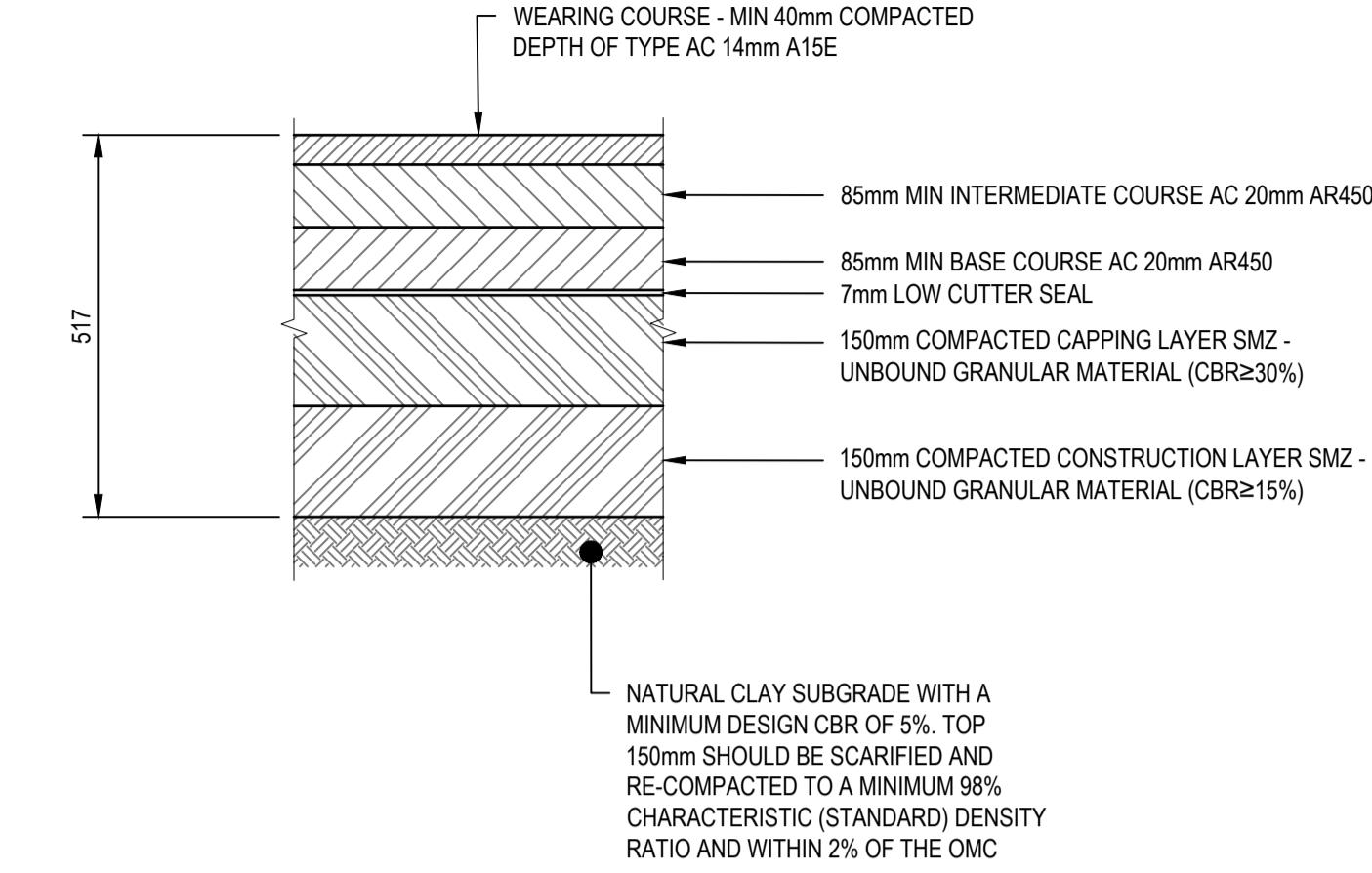
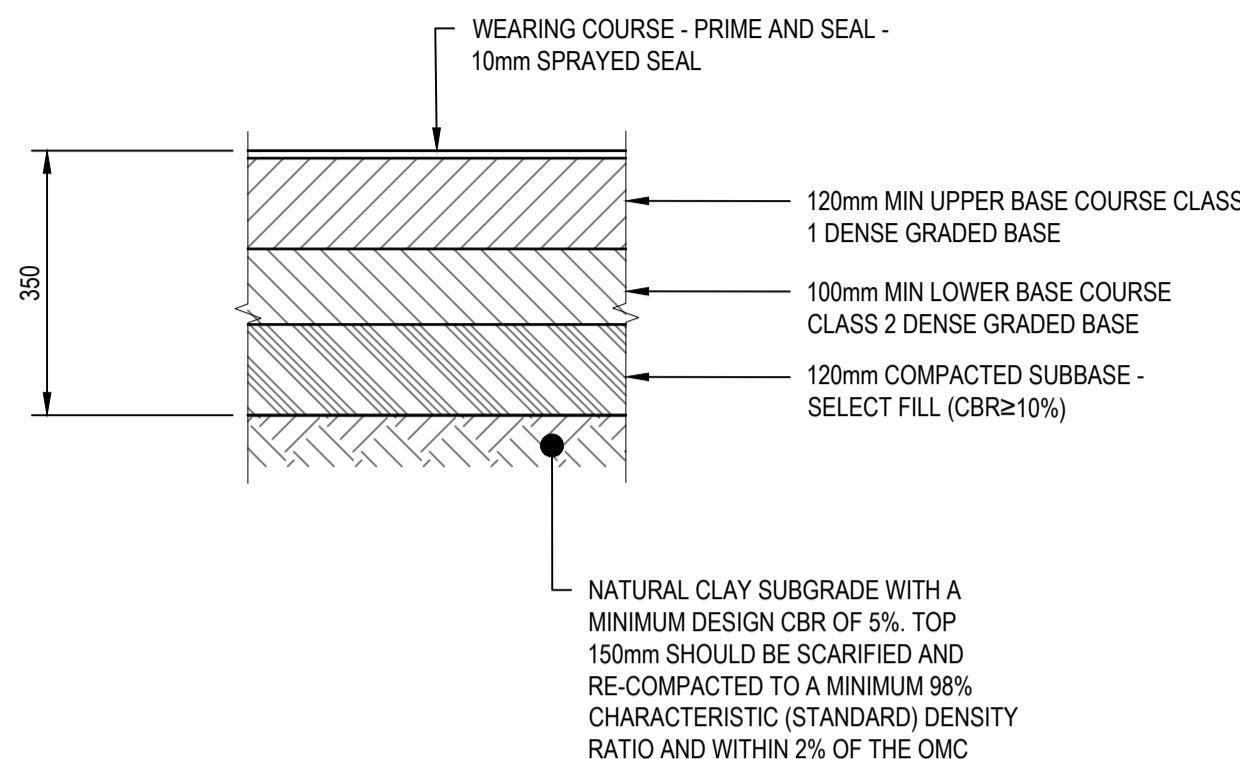
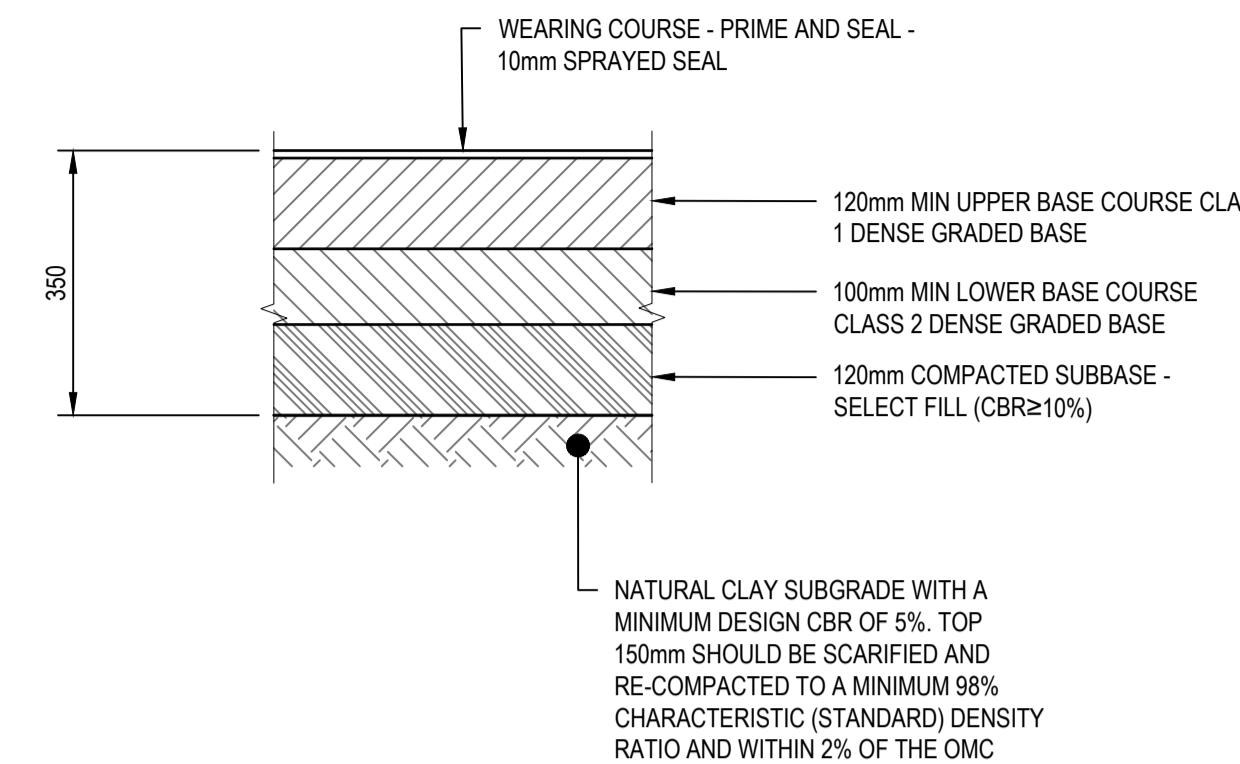
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12/03/2024

NARRANDERA SHIRE COUNCIL

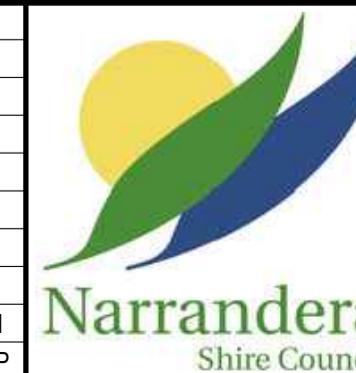
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
TYPICAL SECTIONS AND DETAILS
SHEET 2 OF 6

DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1151			A



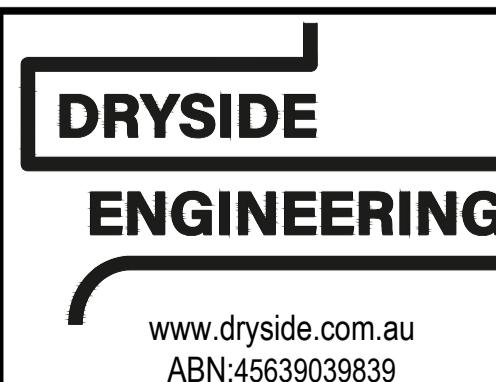
FOR CONSTRUCTION

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REV		DESCRIPTION	DES	VER	APP



0 1 2 4m
SCALE 1:100 @A1

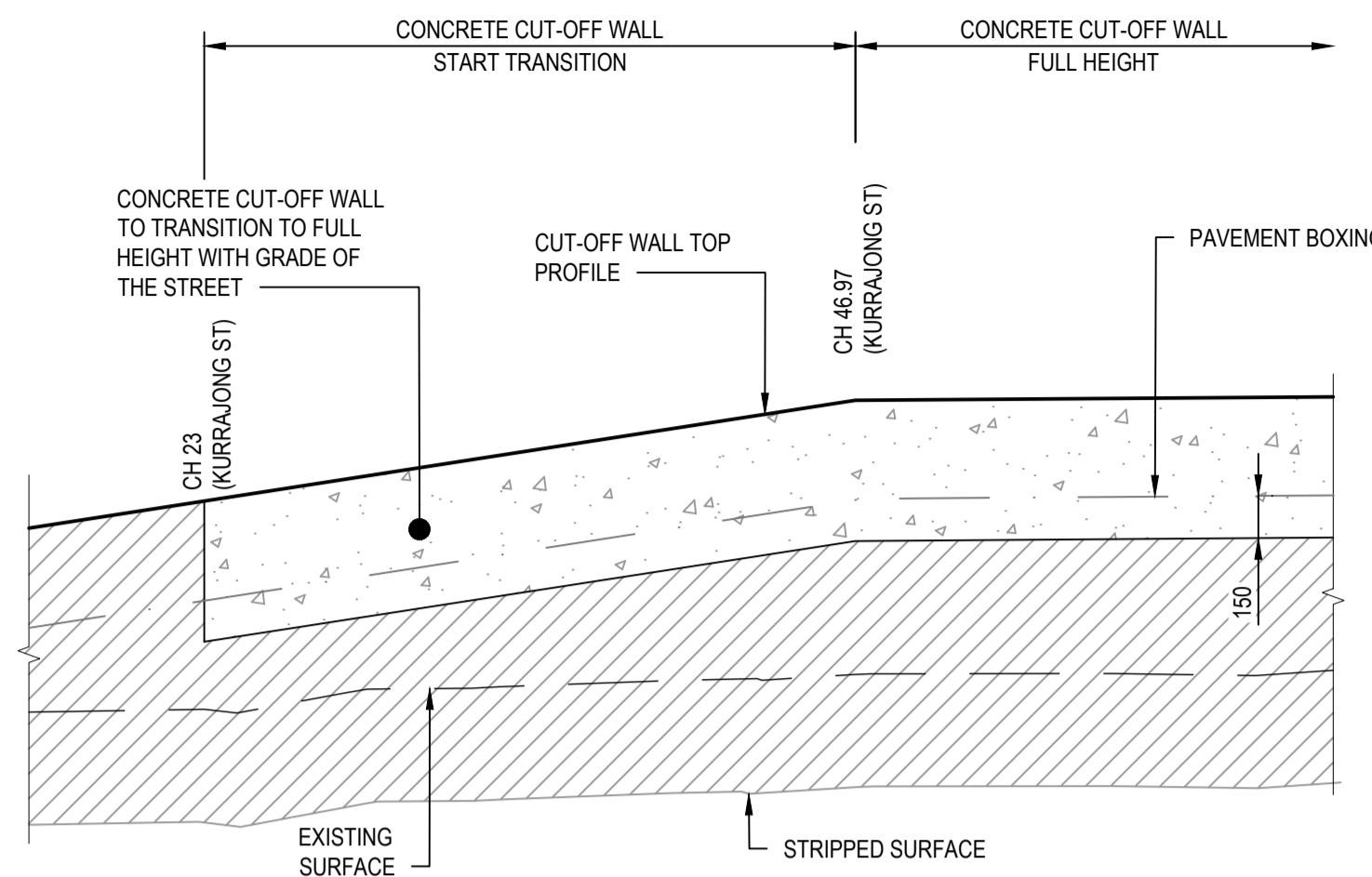
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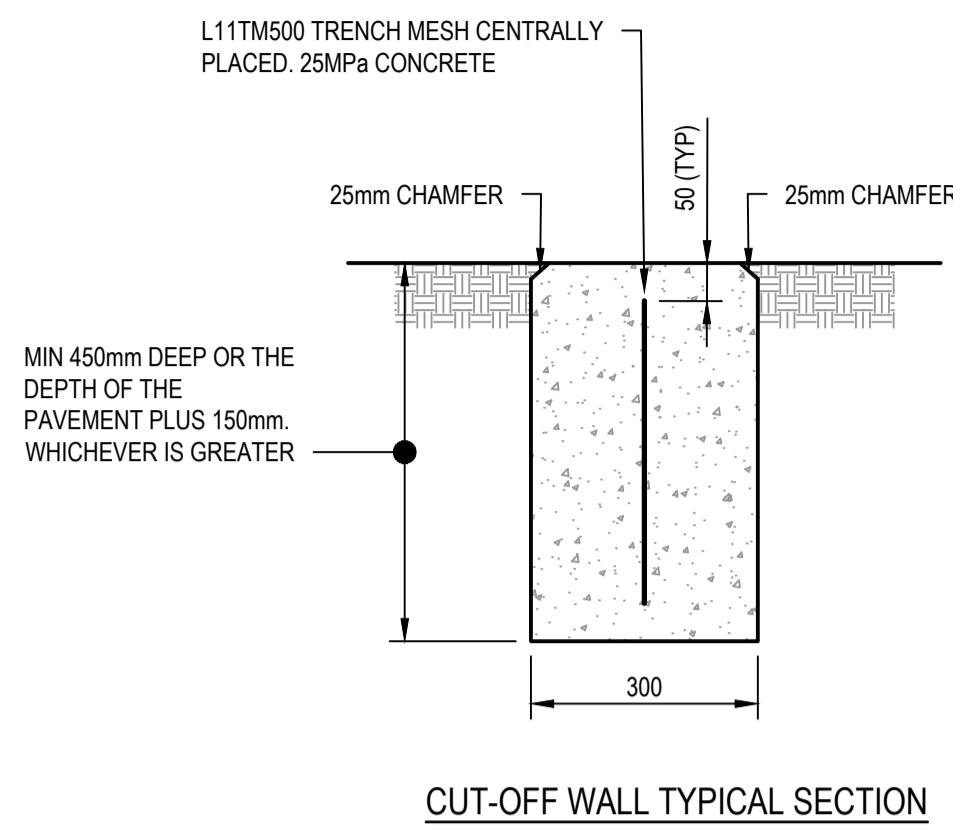
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BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
TYPICAL SECTIONS AND DETAILS
SHEET 3 OF 6

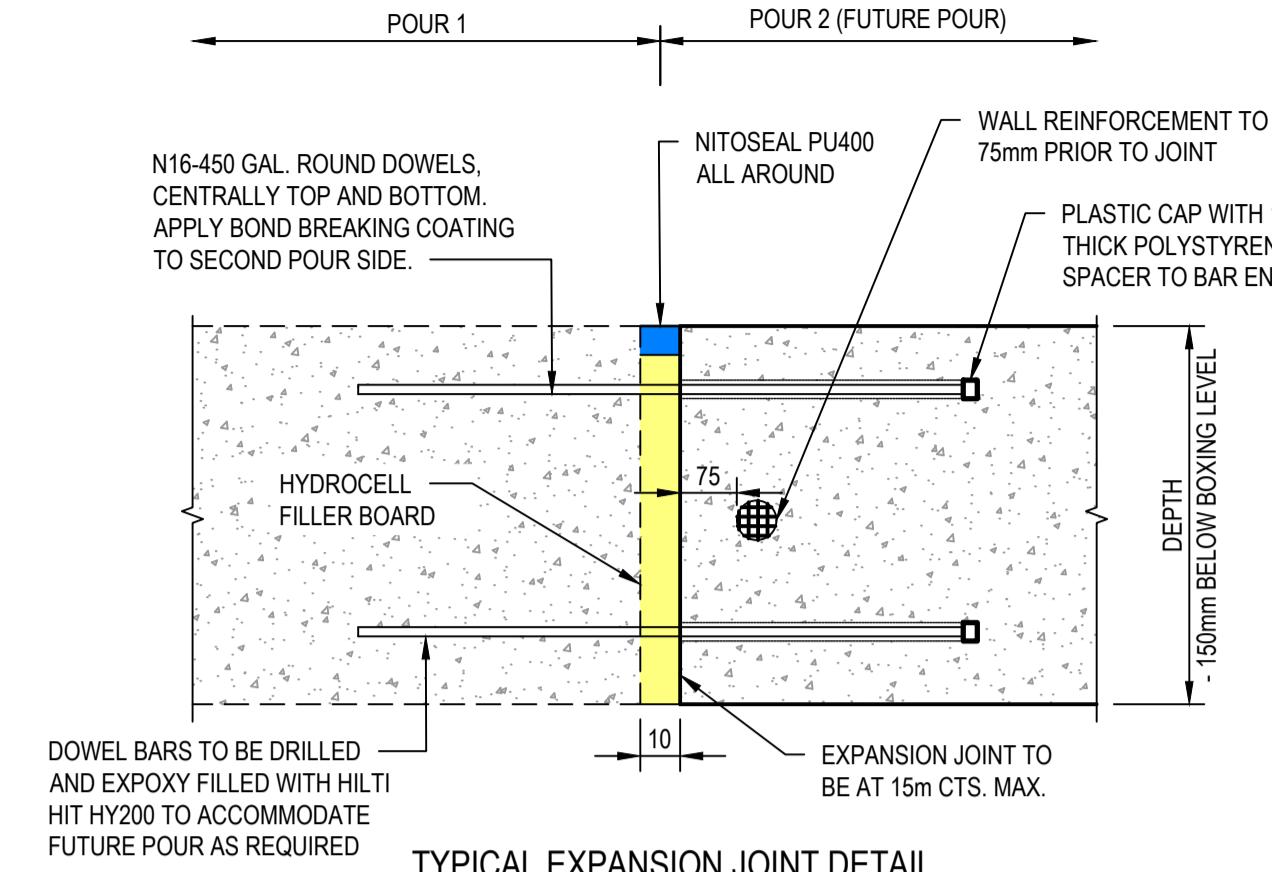
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DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE2301-1152			A



CUT-OFF WALL (START) DETAIL
N.T.S

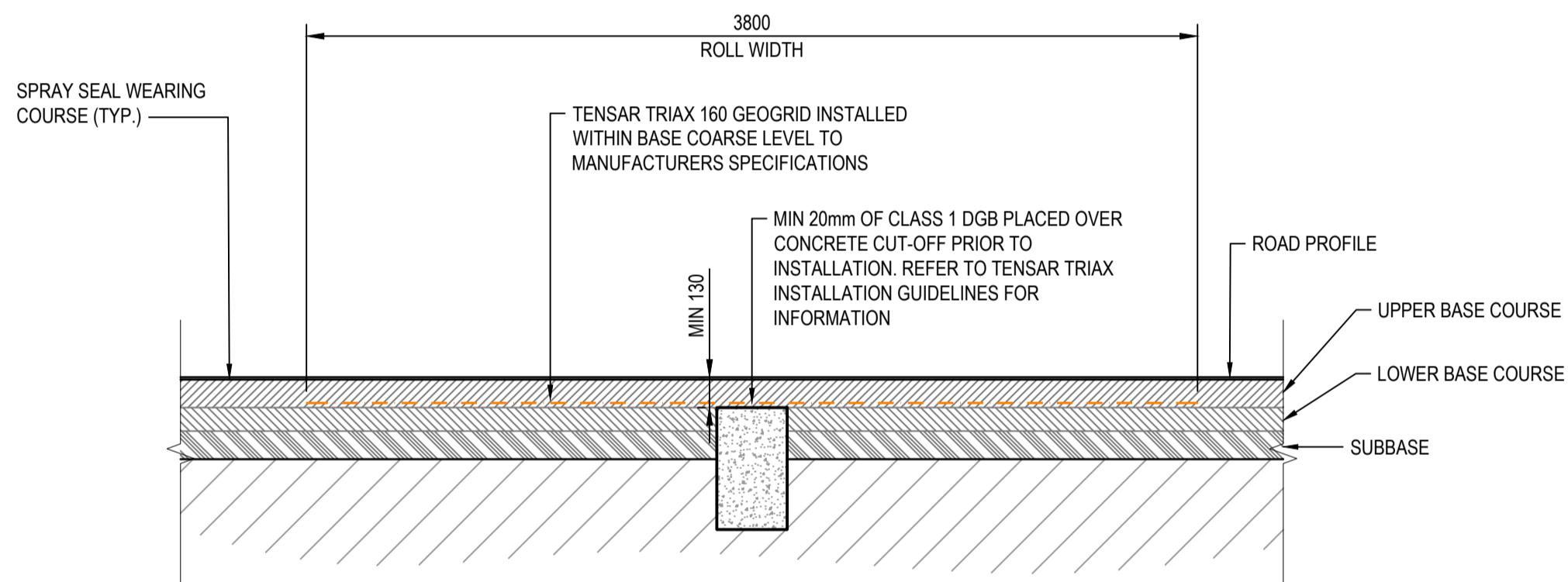


CUT-OFF WALL TYPICAL SECTION

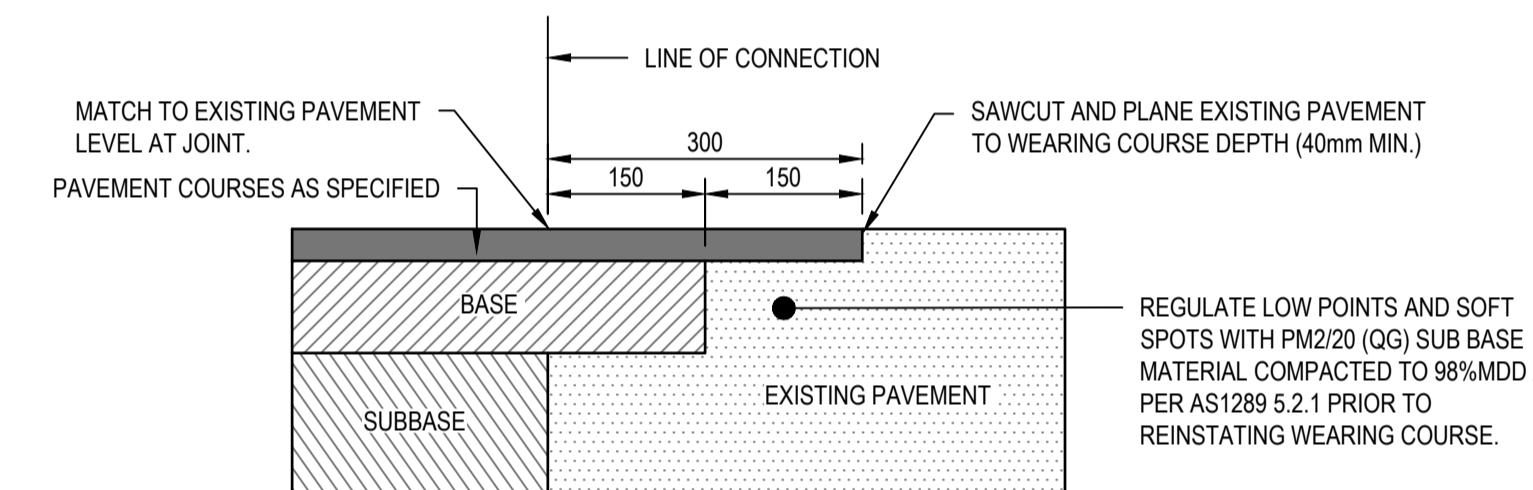


TYPICAL EXPANSION JOINT DETAIL

CUT-OFF WALL DETAIL
N.T.S



CUT-OFF WALL ROAD CROSSING DETAIL
N.T.S

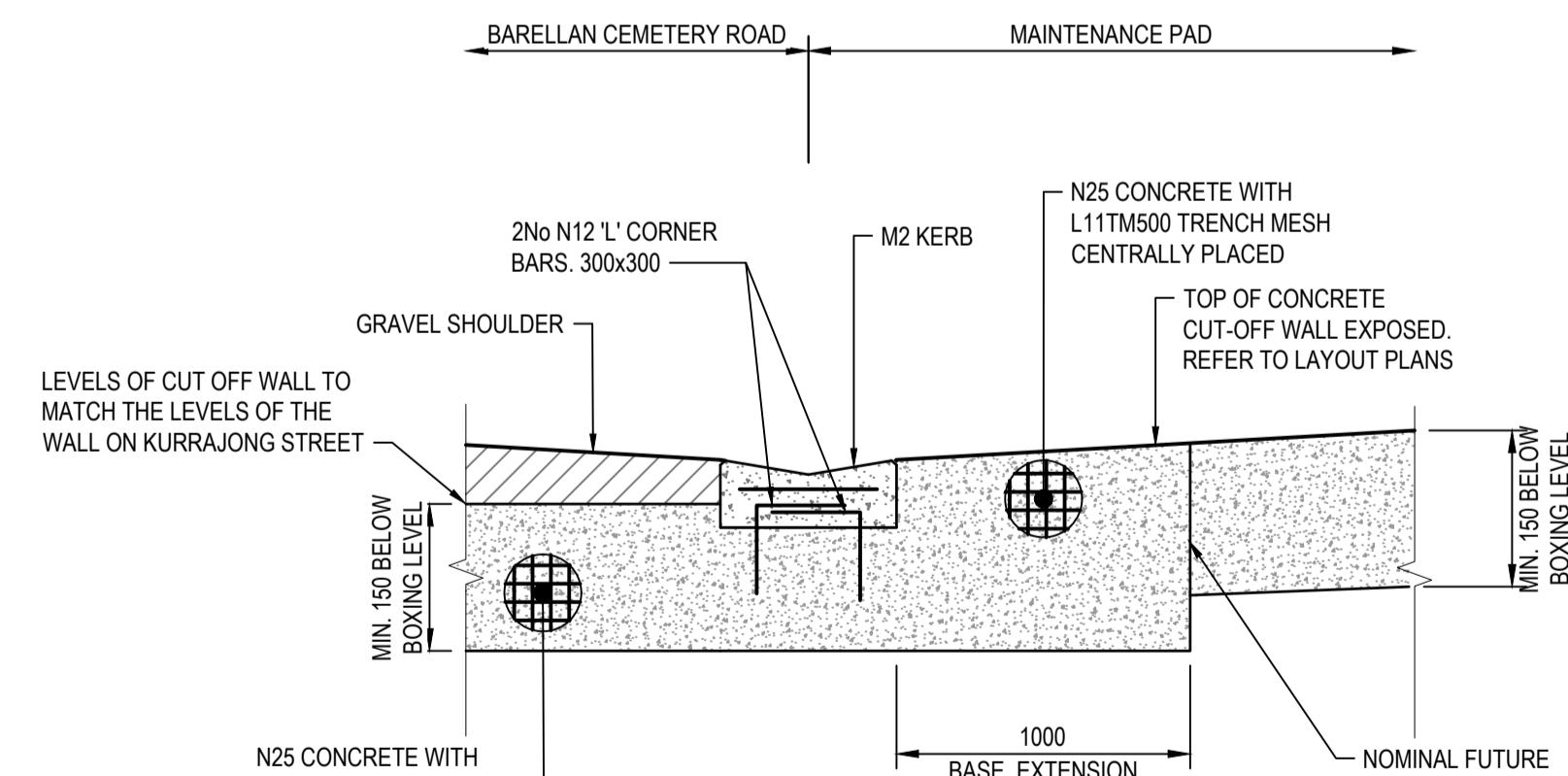


MATCHING OF EXISTING AND PROPOSED FLEXIBLE PAVEMENT DETAIL

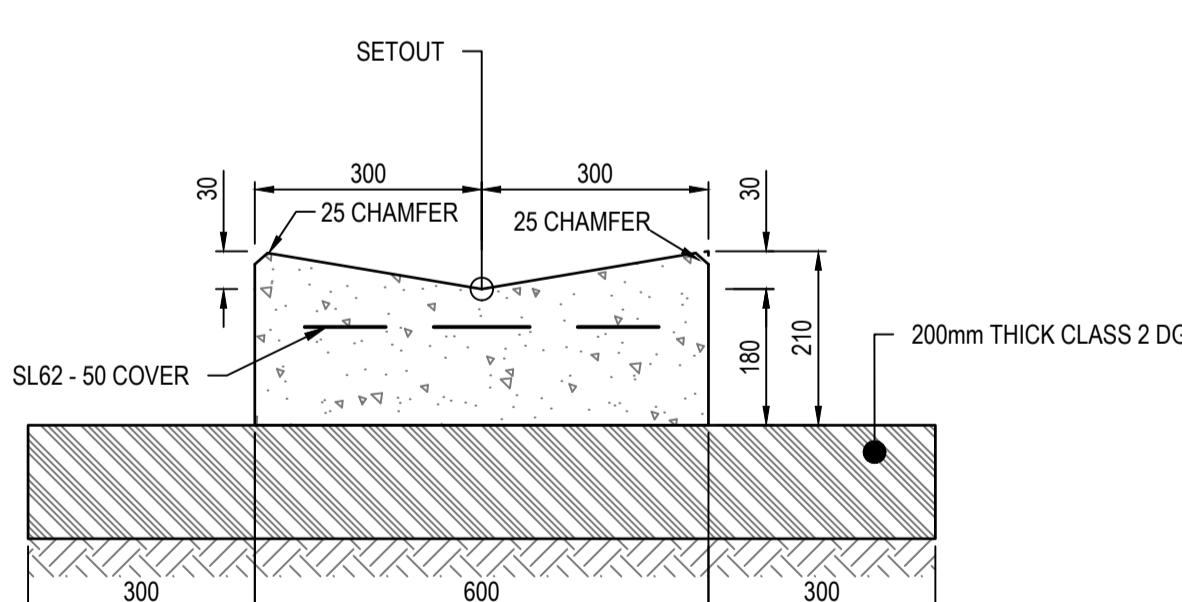
NOT TO SCALE

NOTE:

1. NOT FOR USE ON BURLEY GRIFFIN WAY.



CUT-OFF - M2 KERB JUNCTION DETAIL
N.T.S



M2 KERB DETAIL
NOT TO SCALE

NOTE:
1. N25 CONCRETE

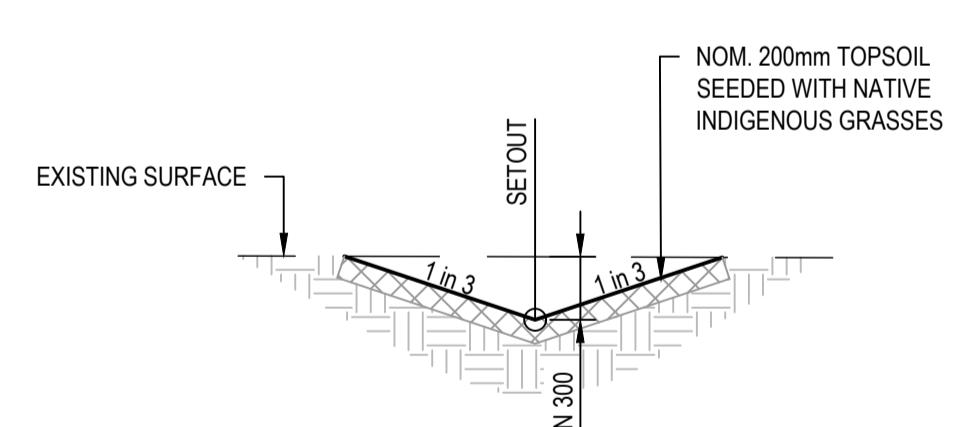


TABLE DRAIN TYPICAL SECTION
SCALE 1:50

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

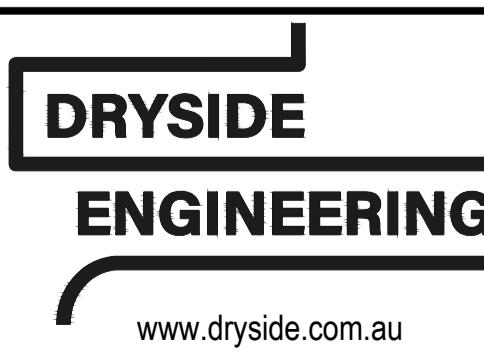
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REV	DATE	DESCRIPTION	DES	VER	APP



0 1 2m
SCALE 1:50 @A1

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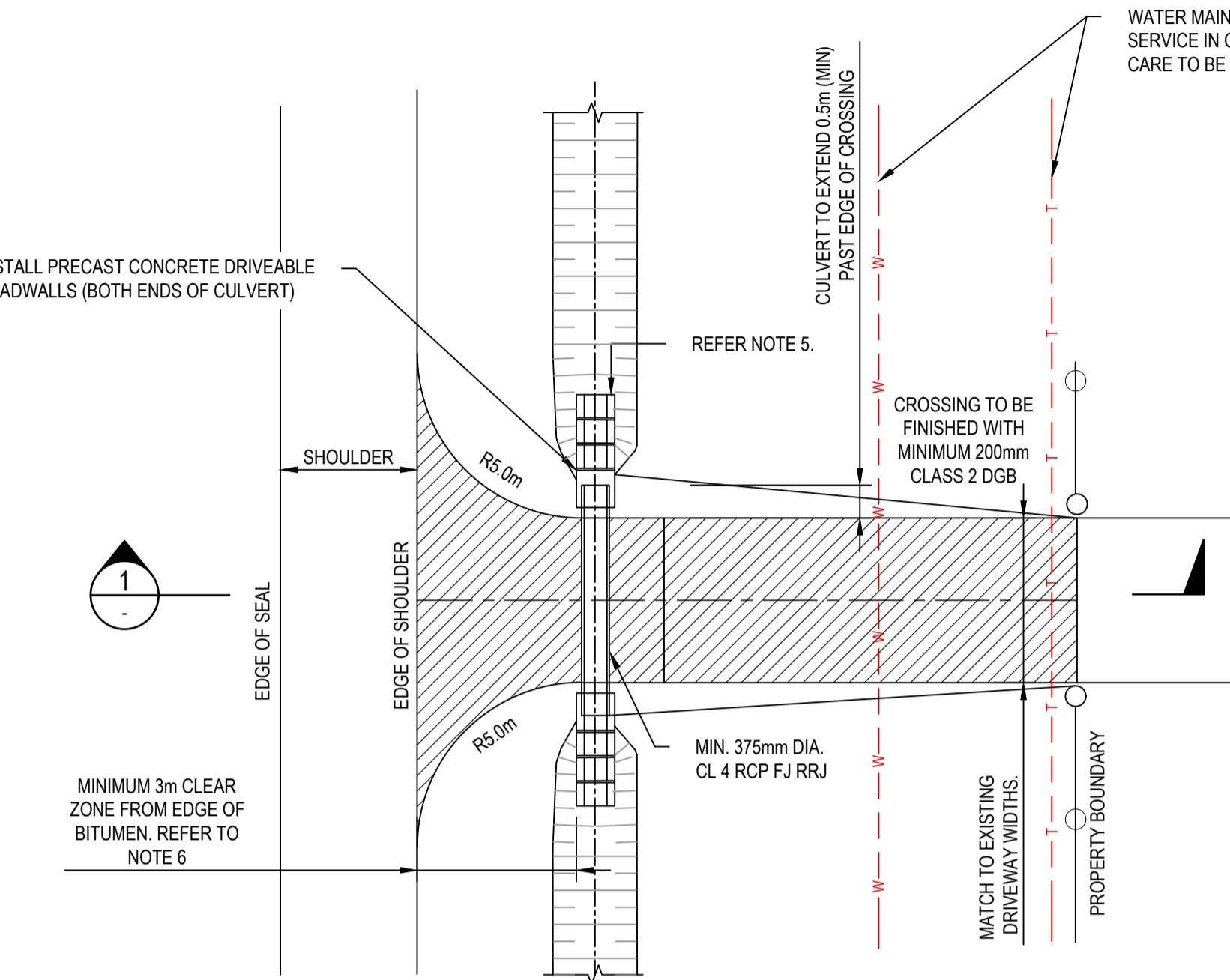


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DETAILED DESIGN
TYPICAL SECTIONS AND DETAILS
SHEET 4 OF 6

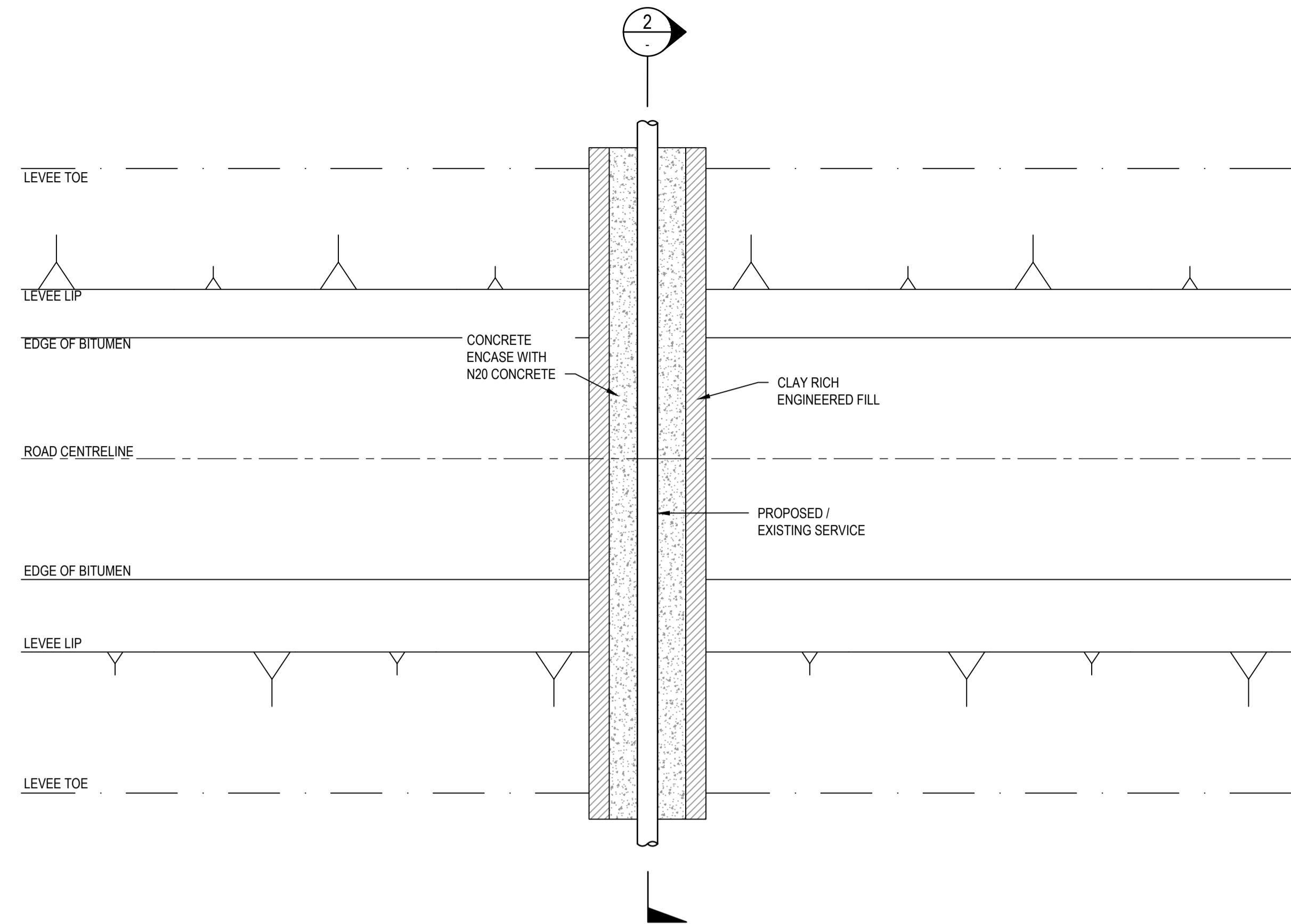
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DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE2301-1153			A



DRIVEWAY TYPICAL DETAIL - PLAN
SCALE 1:100

NOTES:

1. THIS ARRANGEMENT IS INTENDED FOR RURAL LOW DENSITY RESIDENTIAL & FARMING ACCESS WAYS.
2. THIS IS A TYPICAL CROSSING PLAN. SLIGHT VARIATIONS MAY OCCUR AFTER INSPECTION AND APPROVAL OF LOCATION BY COUNCIL.
3. PRIOR TO THE CONSTRUCTION, THE CROSSING LOCATION SHALL BE APPROVED BY COUNCIL.
4. ALL WORKS TO BE COMPLETED TO THE SATISFACTION OF COUNCIL.
5. INSTALL DRIVEABLE END WALLS ON ALL RESIDENTIAL DRIVEWAYS UNLESS OTHERWISE STATED ON LAYOUT PLANS. NO CULVERT TO BE WITHIN 3m OF EDGE OF SEAL.
6. TABLE DRAINS ARE NOT TO BE CLOSER THAN 1.0m FROM FENCE LINES OR SERVICES.
7. ALL DRIVEWAY WIDTHS TO MATCH EXISTING DRIVEWAYS.
8. REFER TO LAYOUT PLANS FOR DRAINAGE LENGTHS.

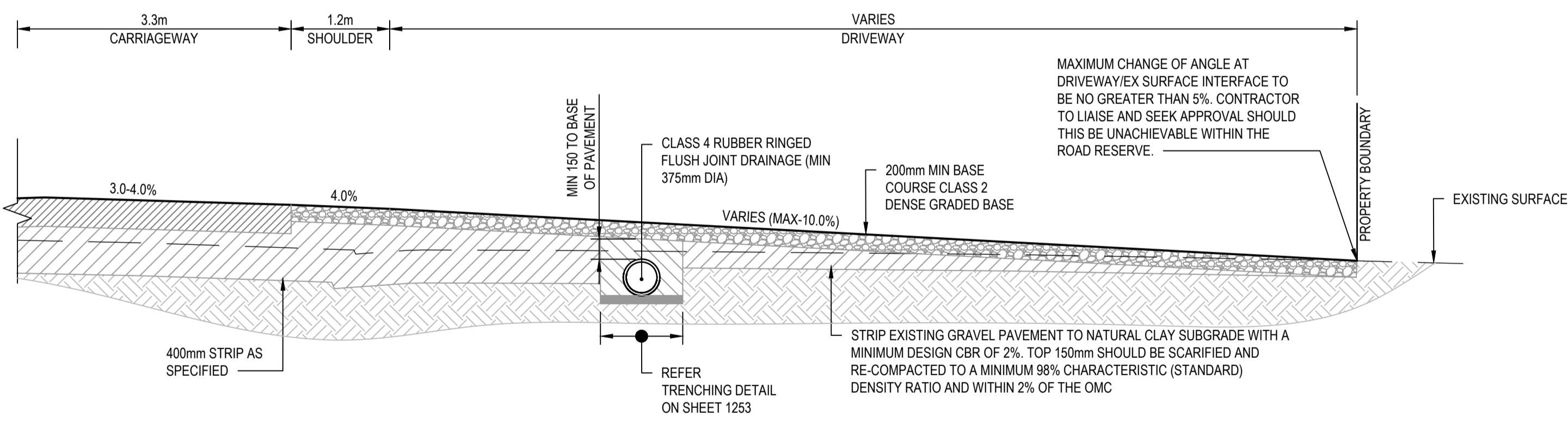


SERVICE LEVEE CROSSING DETAIL

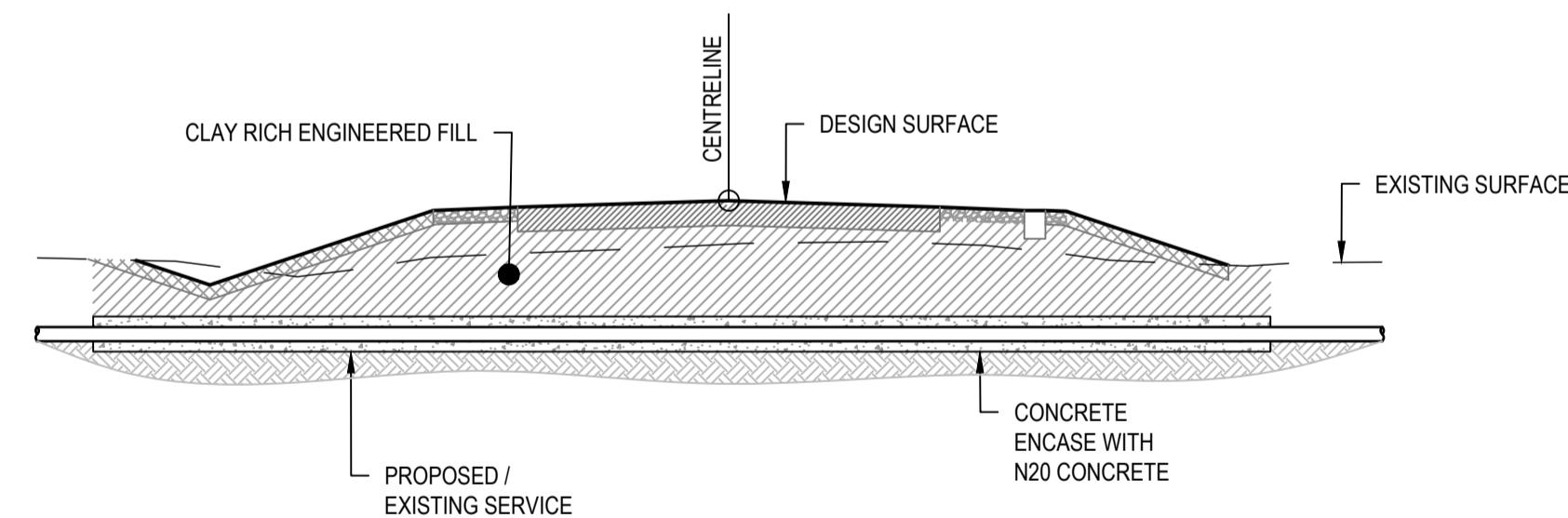
SCALE 1:100

NOTE:

1. TELSTRA CROSSINGS TO BE UNDERTAKEN BY TELSTRA CONTRACTOR. PLUG AND SEALING OF TELSTRA CONDUITS TO BE INSPECTED BY THE PRINCIPAL TO ENSURE WATERTIGHT
2. WATER CROSSINGS TO BE UNDERTAKEN BY GOLDENFIELDS APPROVED CONTRACTOR



DRIVEWAY TYPICAL SECTION
SCALE 1:50



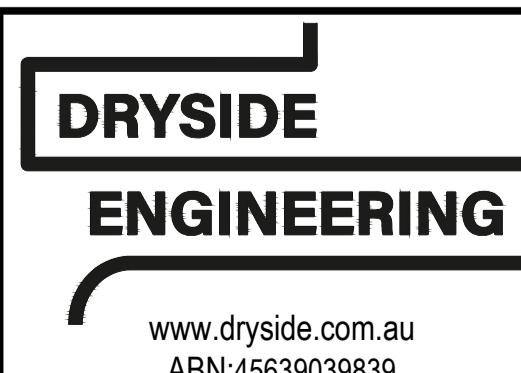
SECTION
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FOR CONSTRUCTION

A	12/03/2024	CONSTRUCTION ISSUE	AW	EH	EH	
REV		DESCRIPTION	DES	VER	APP	



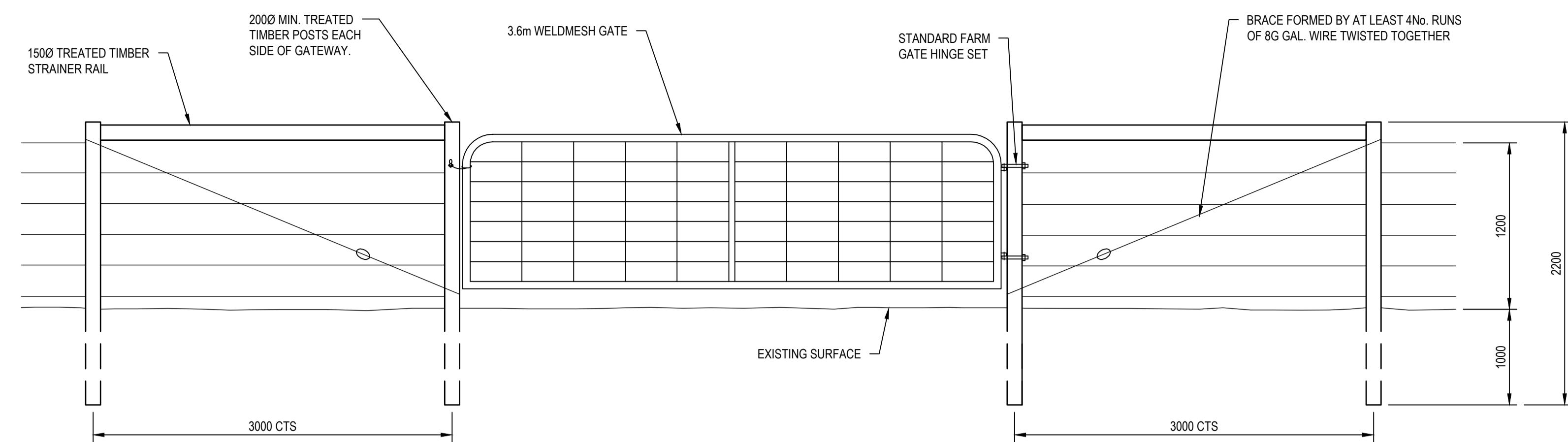
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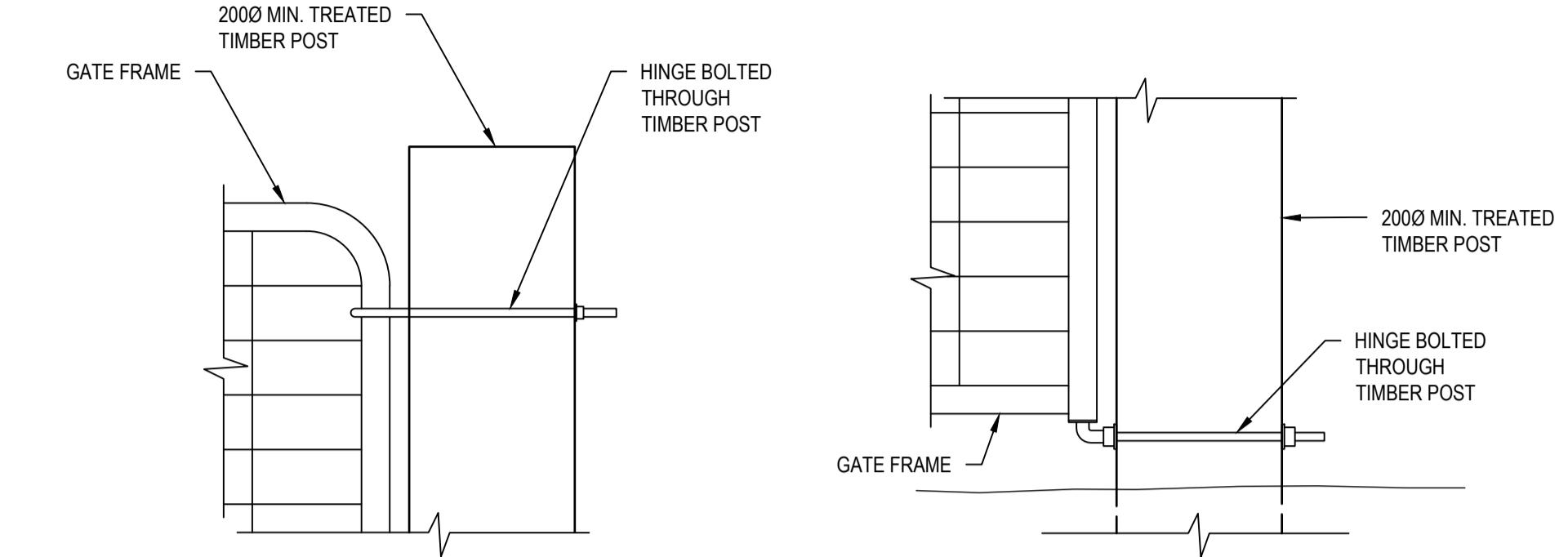
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TYPICAL SECTIONS AND DETAILS
SHEET 5 OF 6

DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1154			A

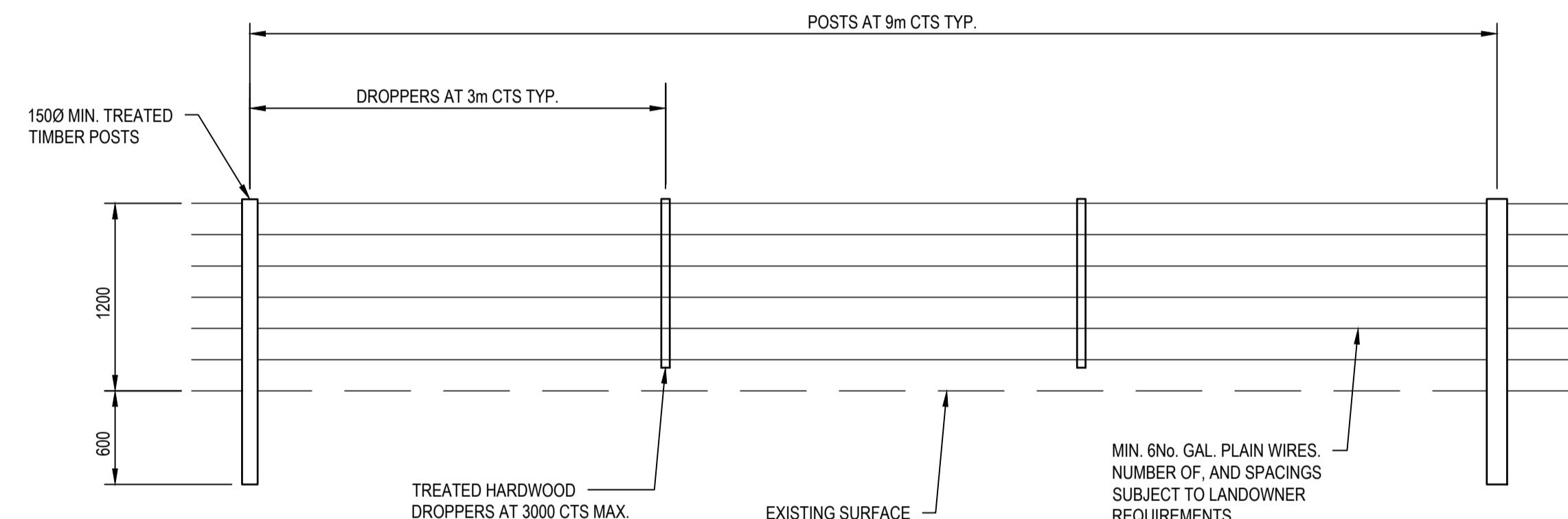


GATE ARRANGEMENT TYPICAL DETAIL
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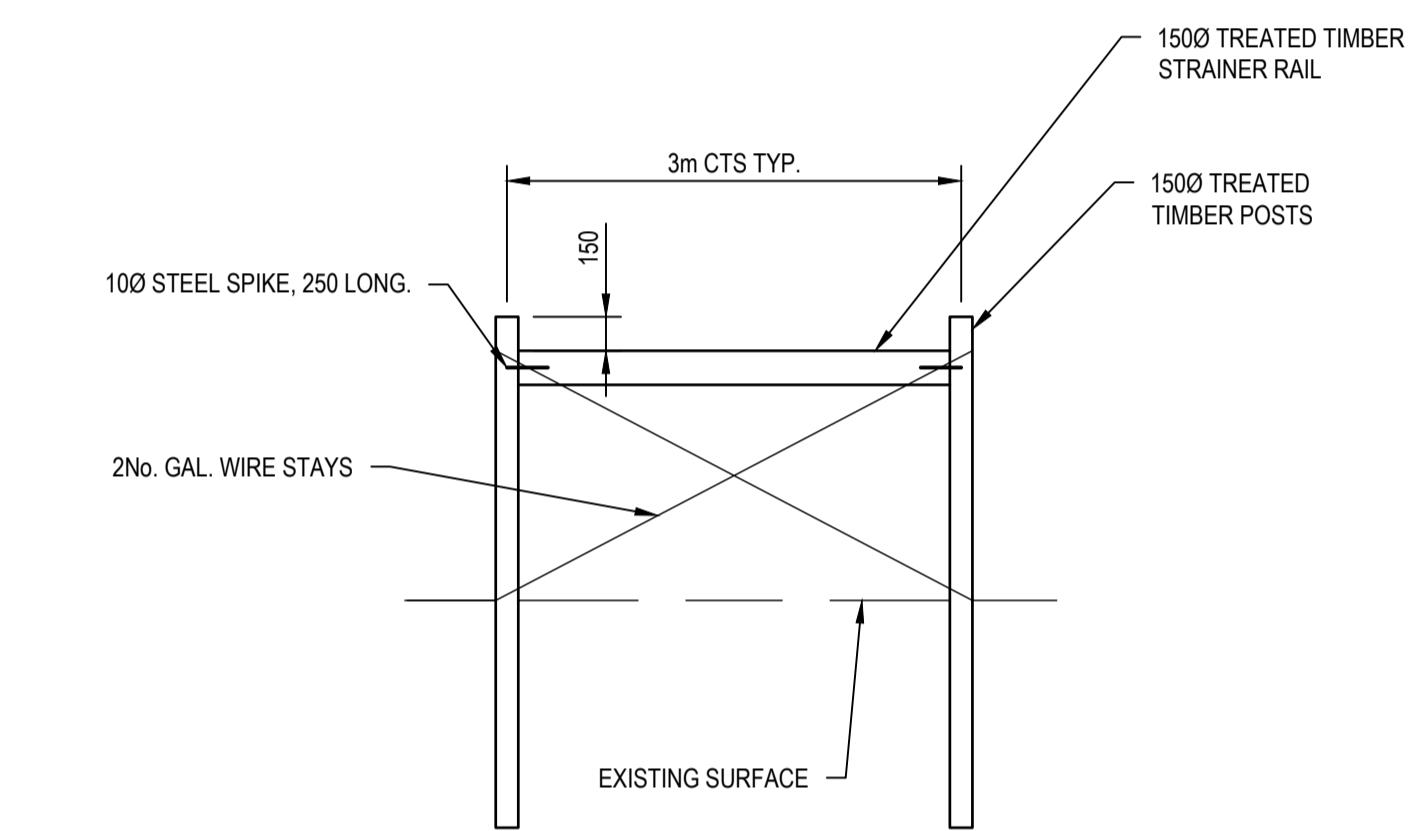


TOP HINGE GATE DETAIL
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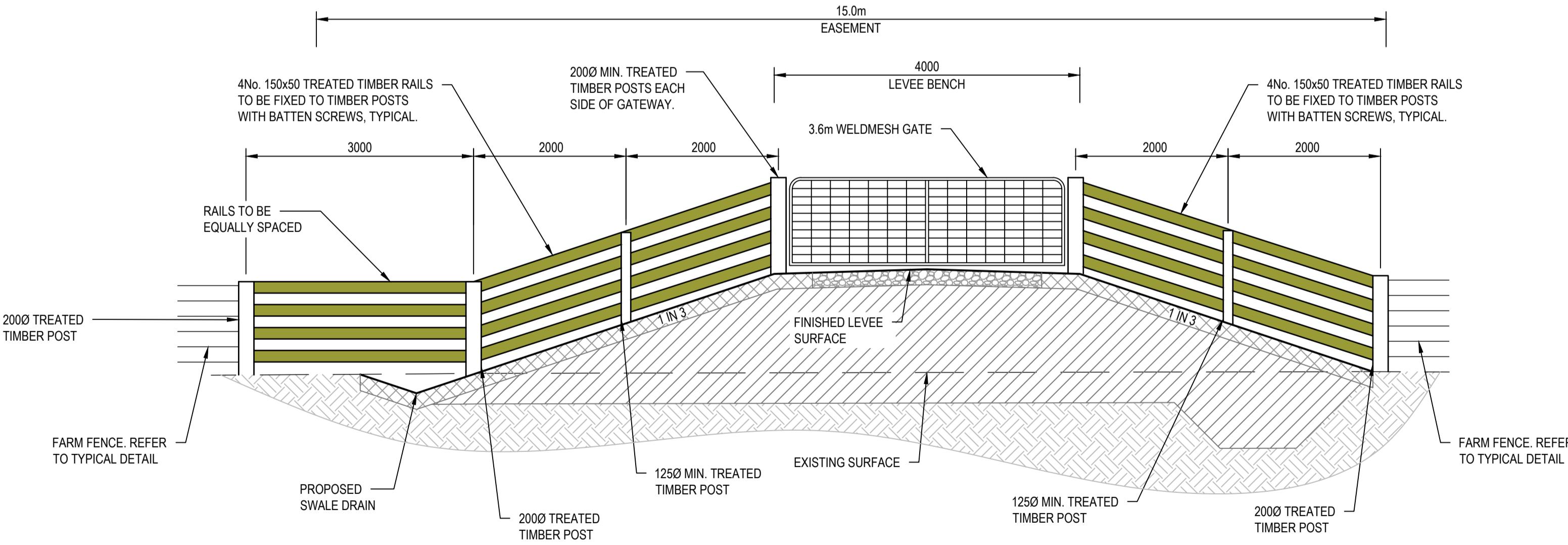
GUDGEON GATE DETAIL
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FARM FENCE TYPICAL DETAIL
NOT TO SCALE

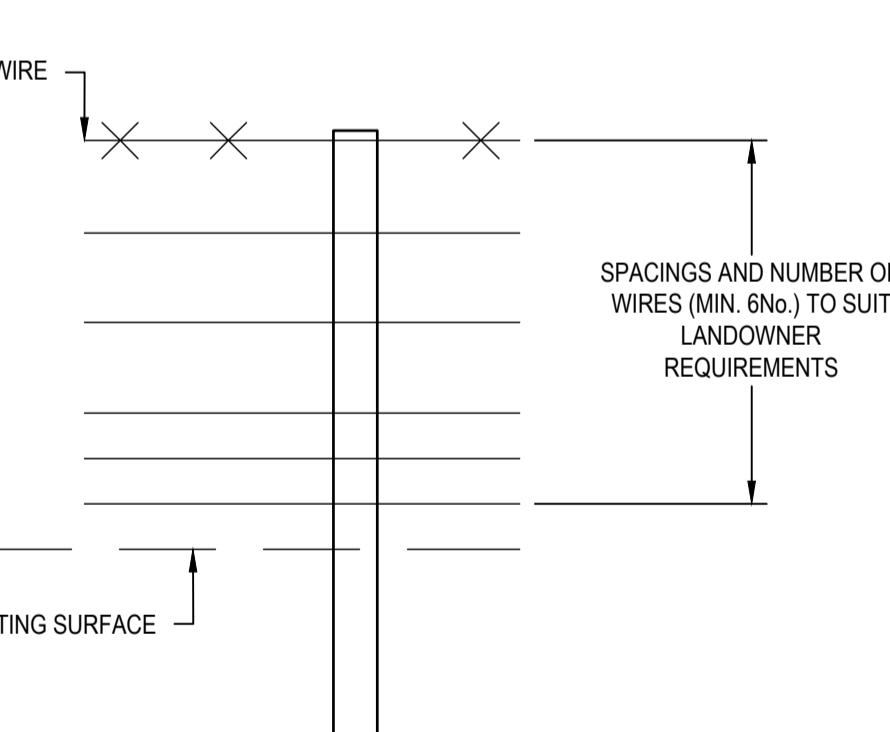


STRAINER POST ASSEMBLY AT 200m CENTRES
NOT TO SCALE



TIMBER FENCE OVER LEVEE TYPICAL DETAIL
NOT TO SCALE

NOTE:
ALL FENCES LOCATED ON LEVEE AND LEVEE BATTERS TO HAVE TIMBER
RAILS INSTEAD OF WIRE



STOCK PROOF FENCE DETAIL
NOT TO SCALE

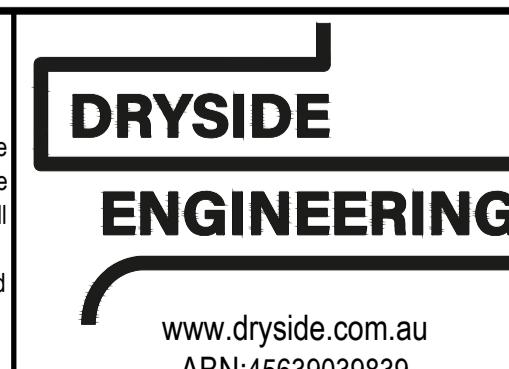
NOTE:
STOCK PROOF FENCING TO BE USED ONLY WHERE THE LANDOWNER
AND COUNCIL HAVE APPROVED

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A	12/03/2024	CONSTRUCTION ISSUE	AW	EH
REV		DESCRIPTION	DES	VER APP



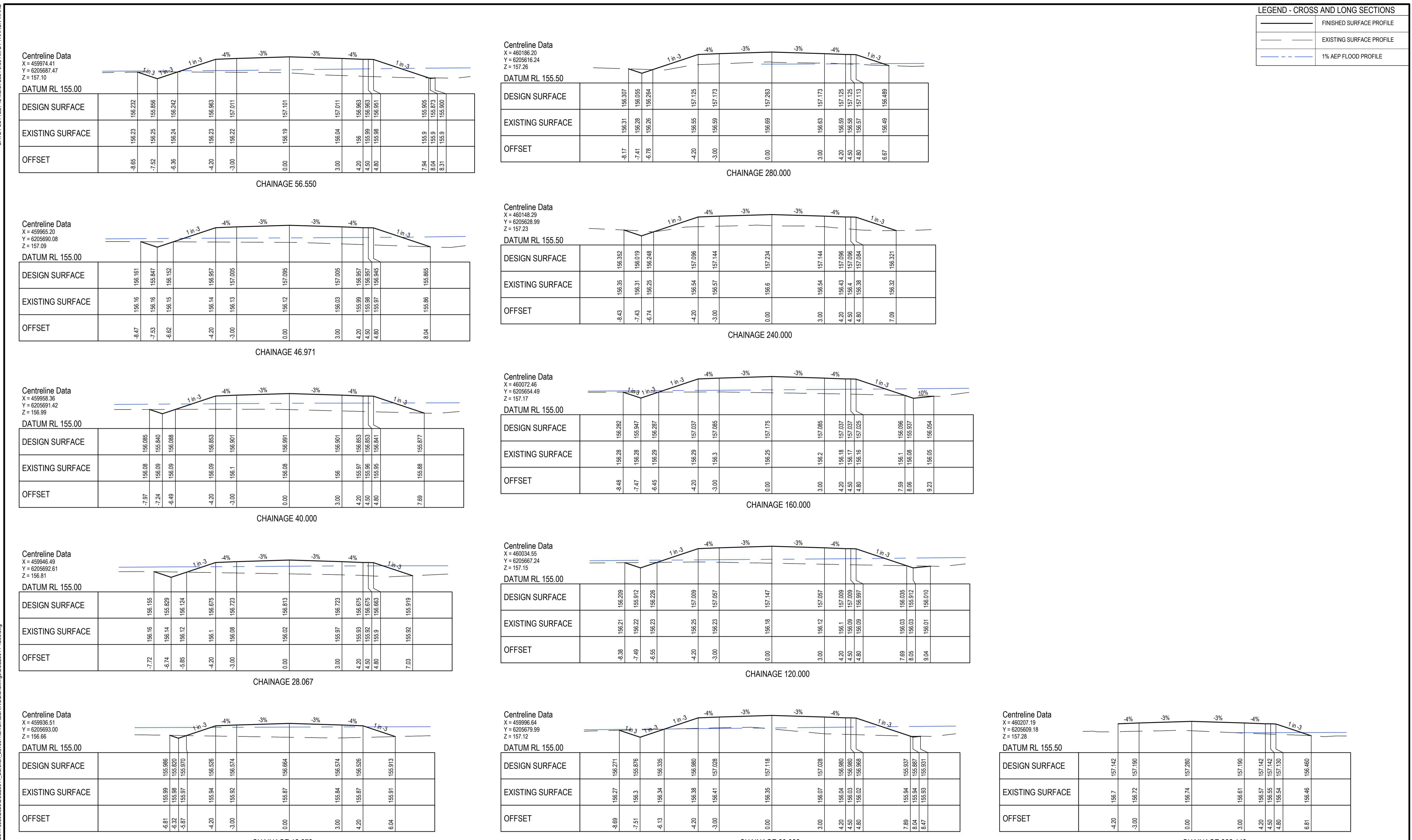
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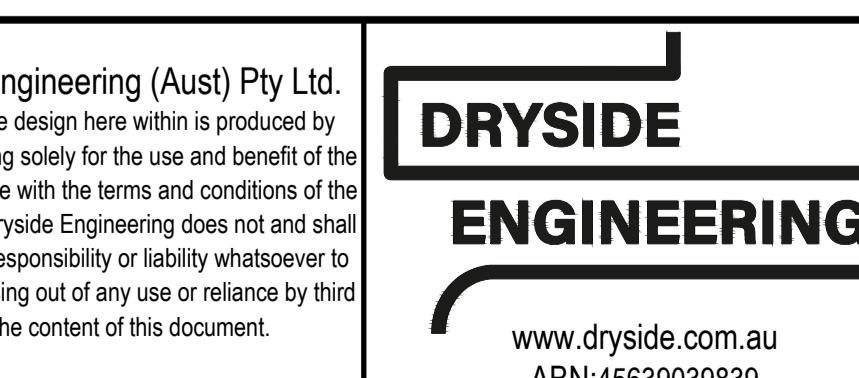
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DETAILED DESIGN
TYPICAL SECTIONS AND DETAILS
SHEET 6 OF 6

DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1155			A



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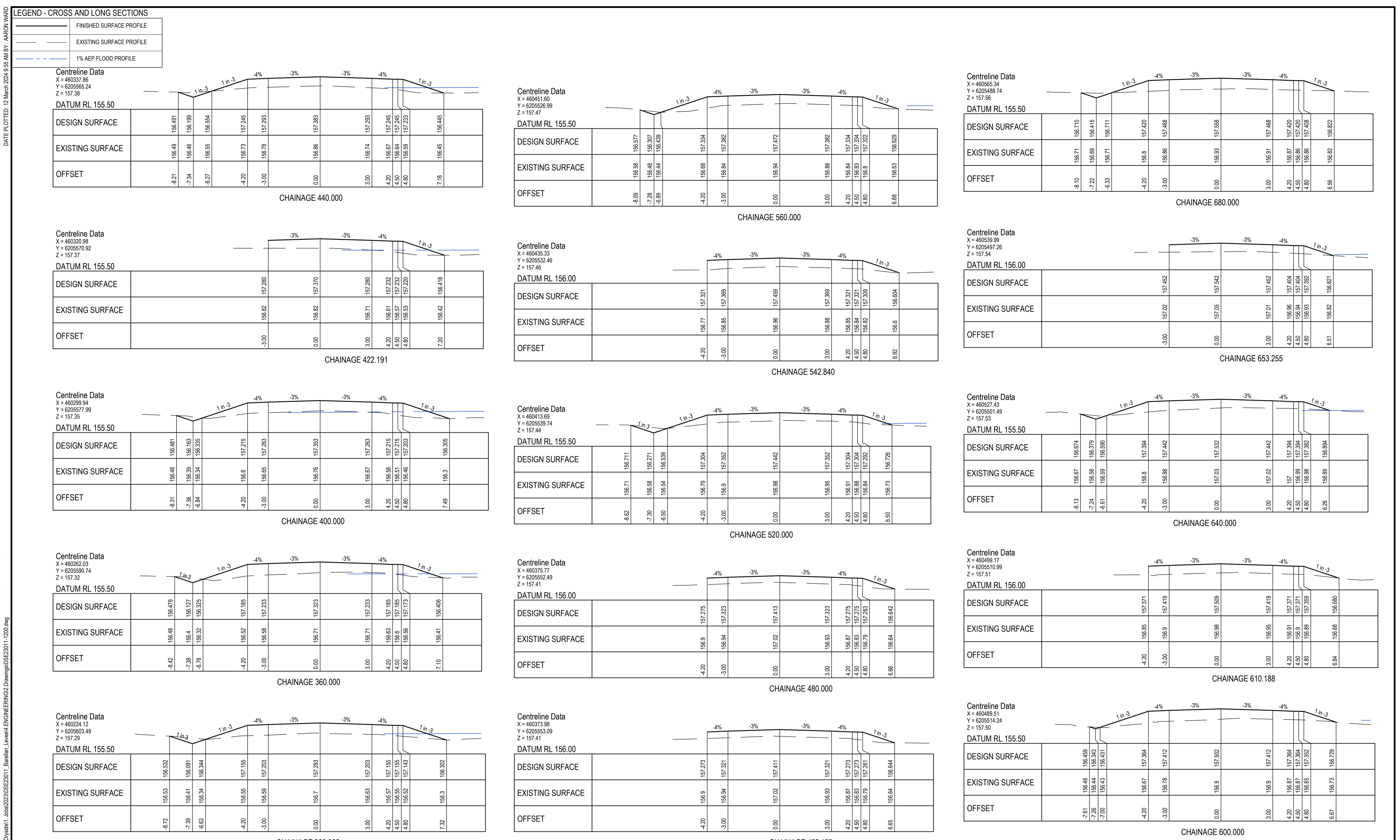
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BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
LEVEE CROSS SECTIONS
SHEET 1 OF 10

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DATE PLOTTED: 12 March 2024 9:59 AM BY: AARON WARD

A	12/03/2024	CONSTRUCTION ISSUE	DESCRIPTION	AW	EH	EH	DES	VER	APP
REV									





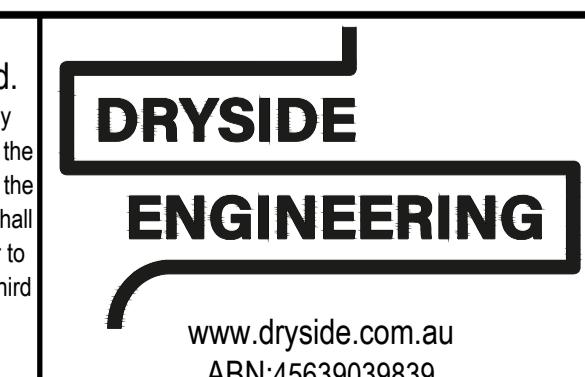
RS01 CROSS SECTIONS

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0 1 2 4m
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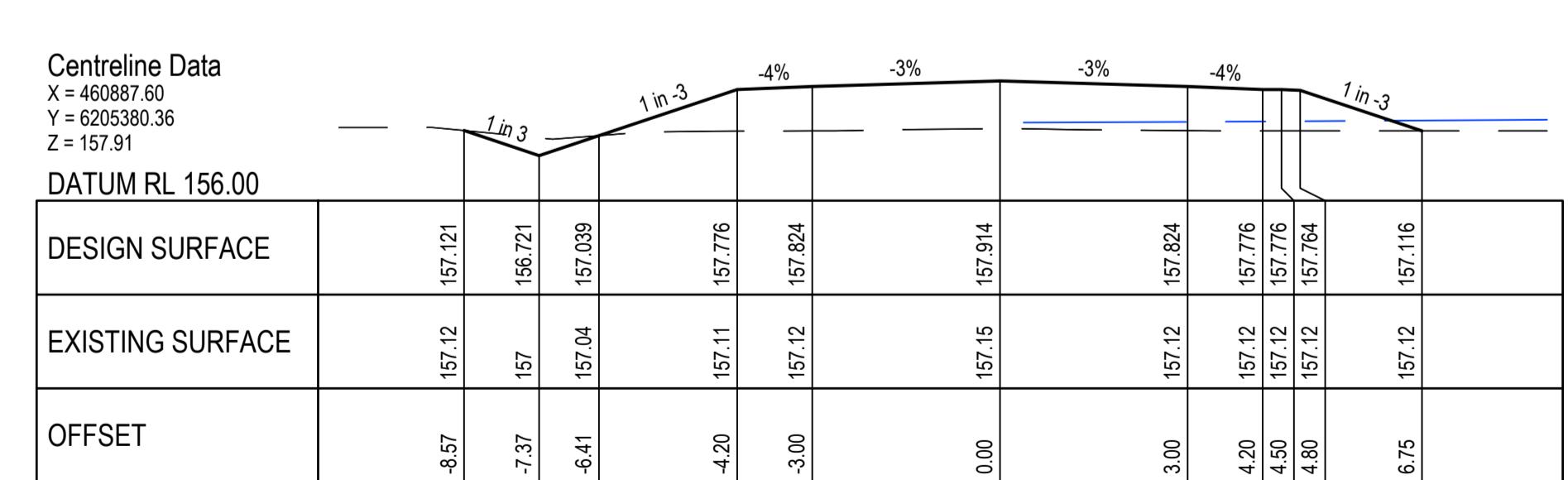
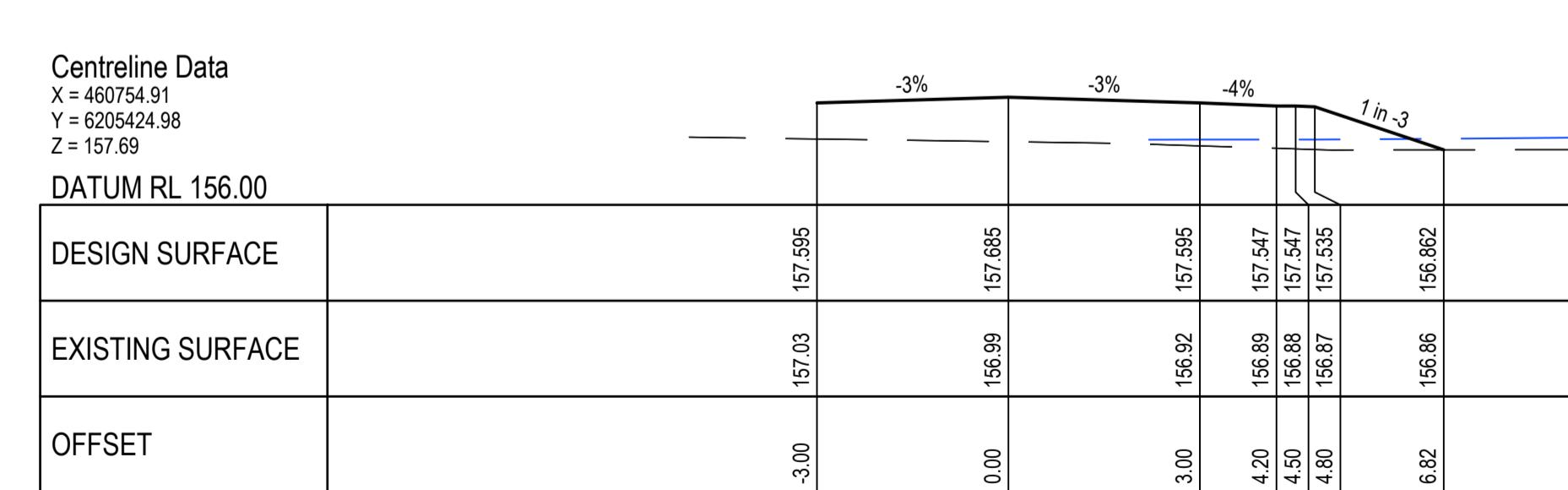
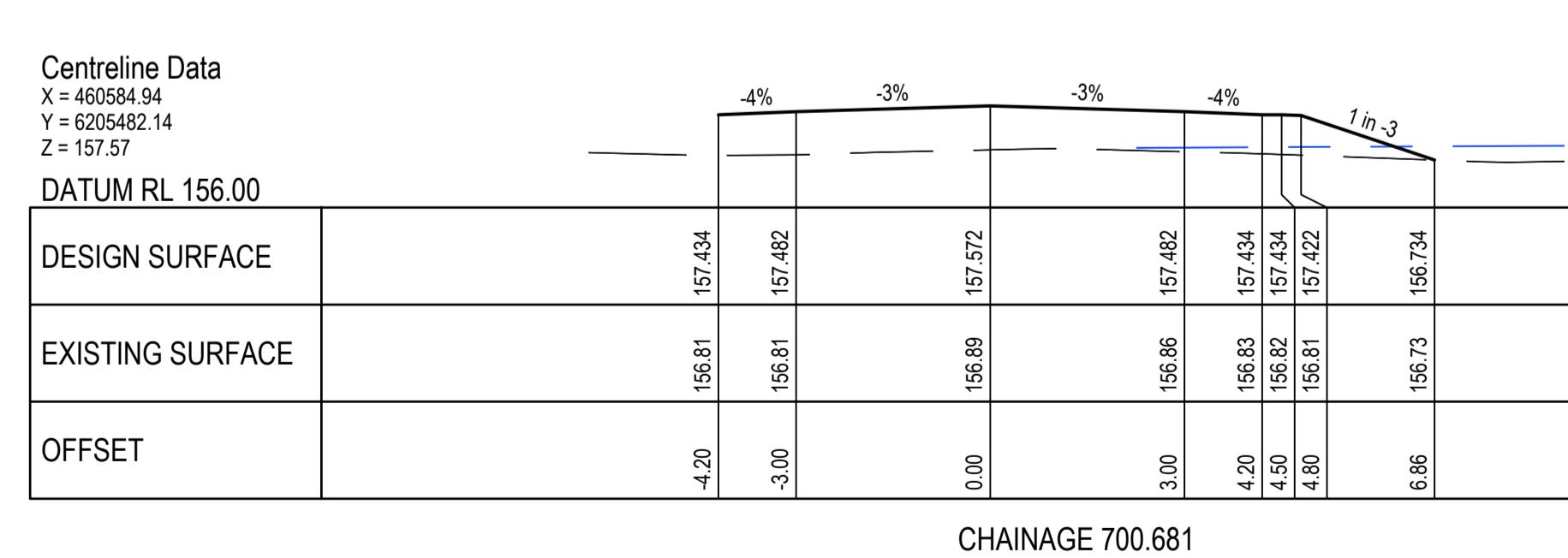
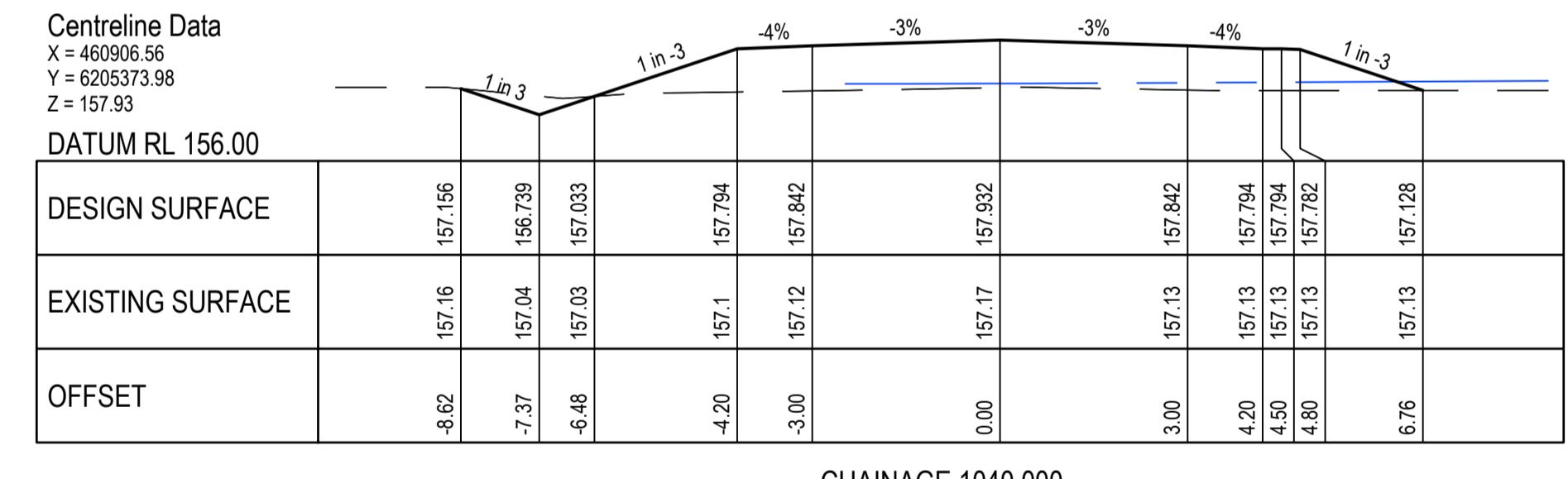
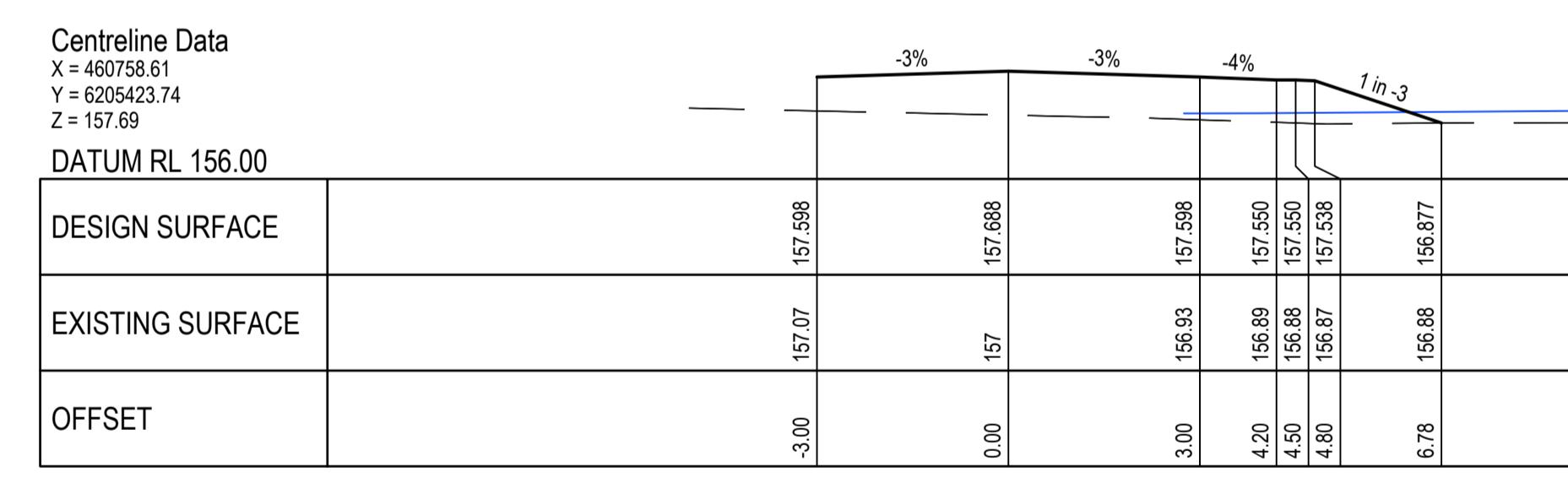
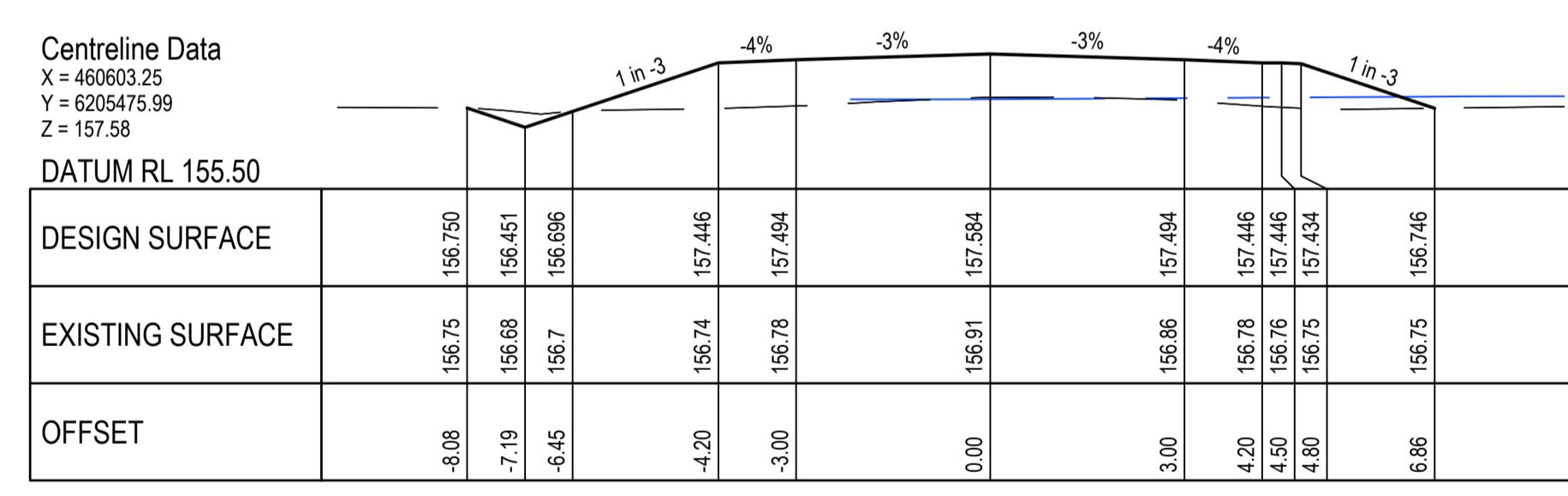
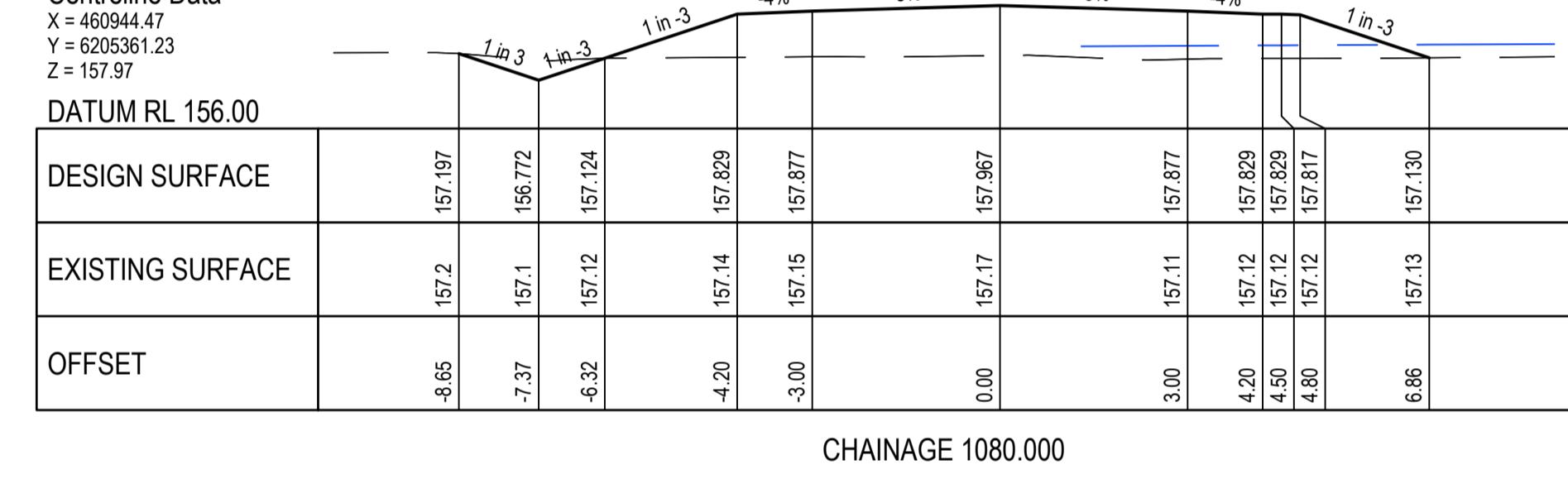
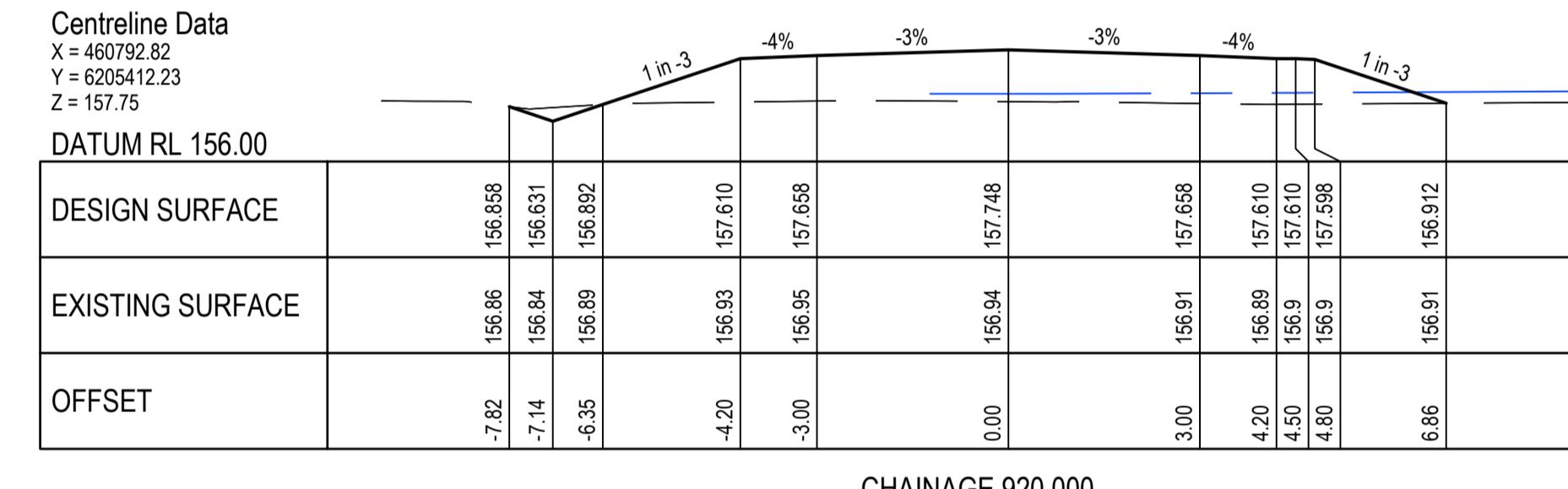
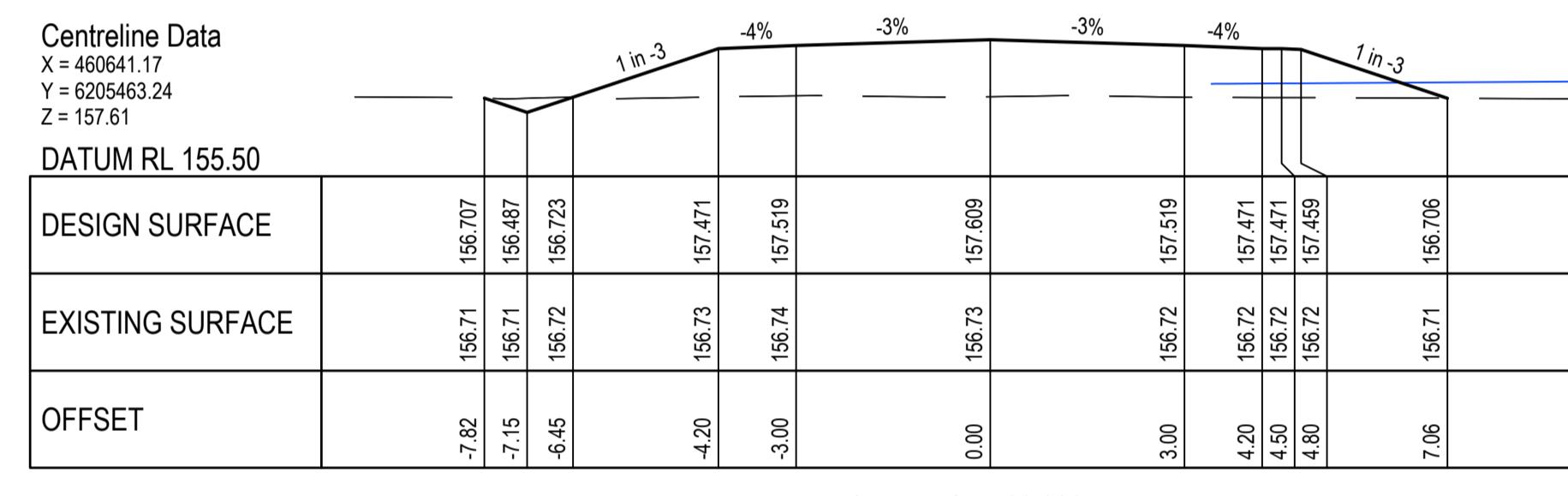
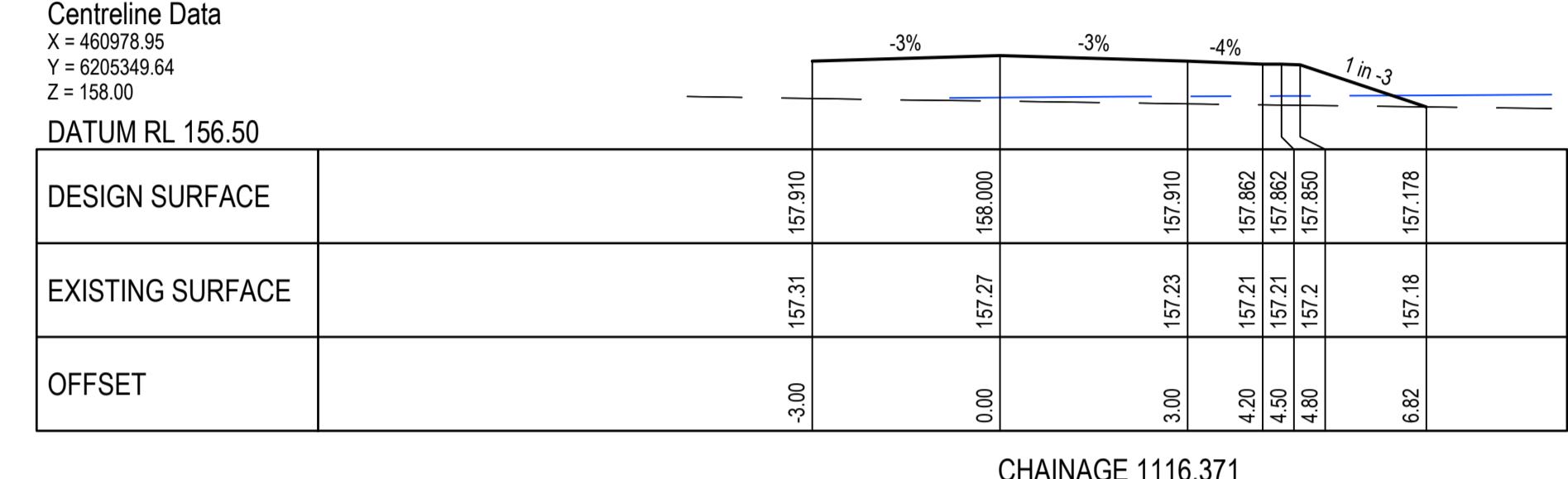
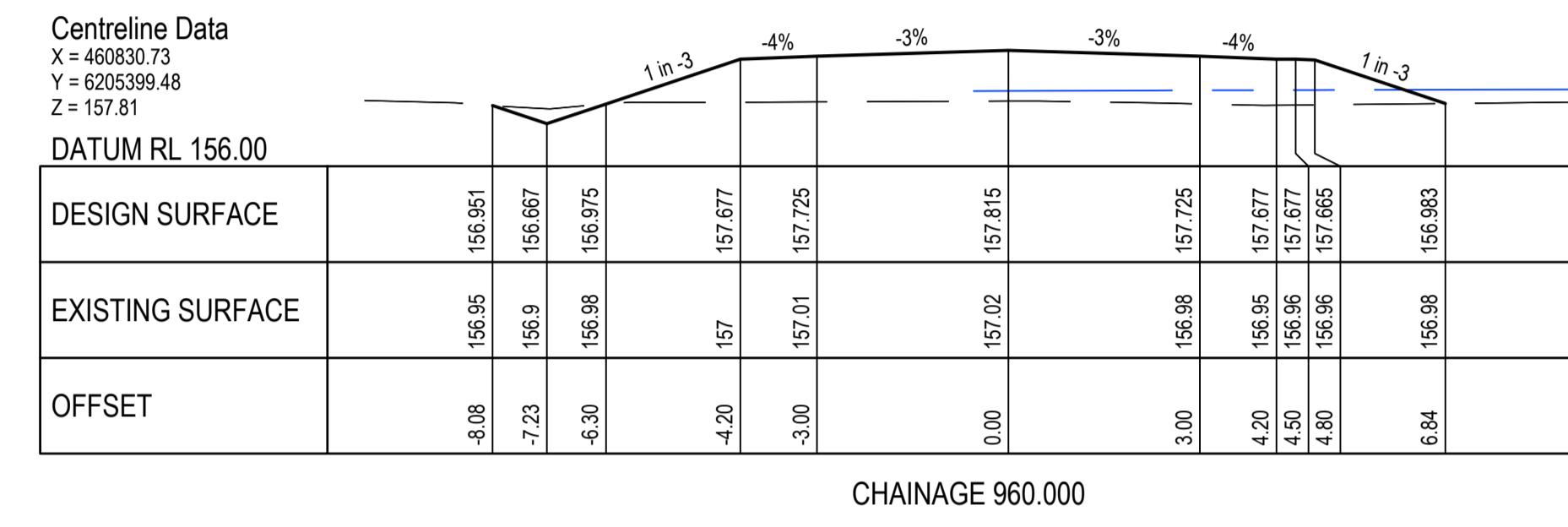
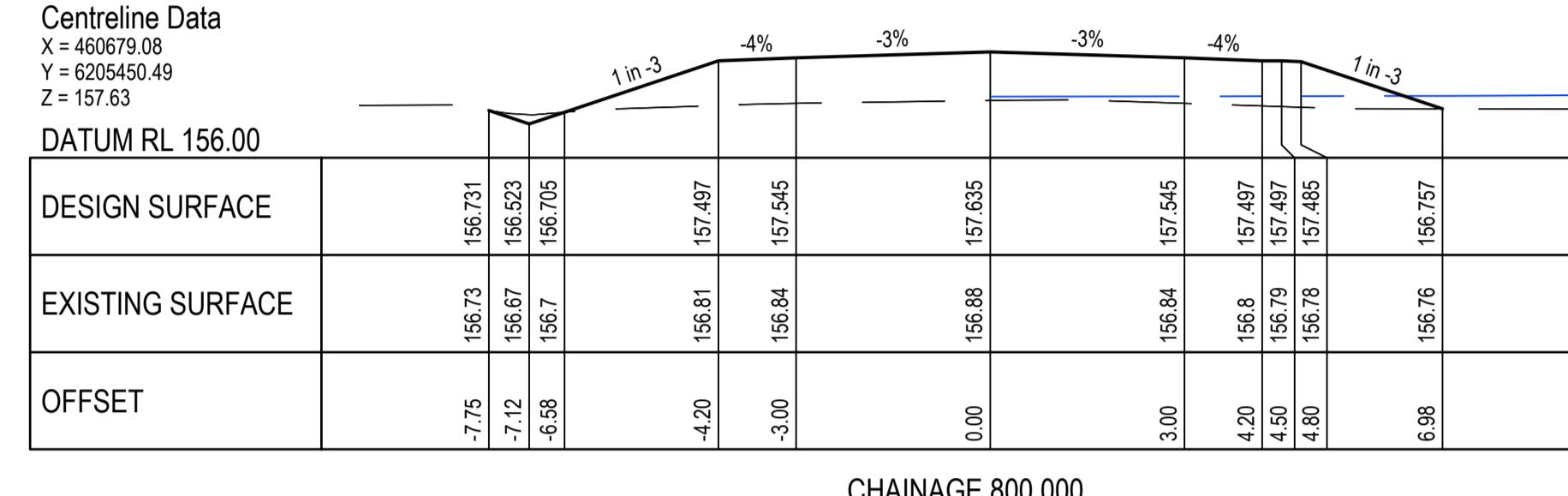
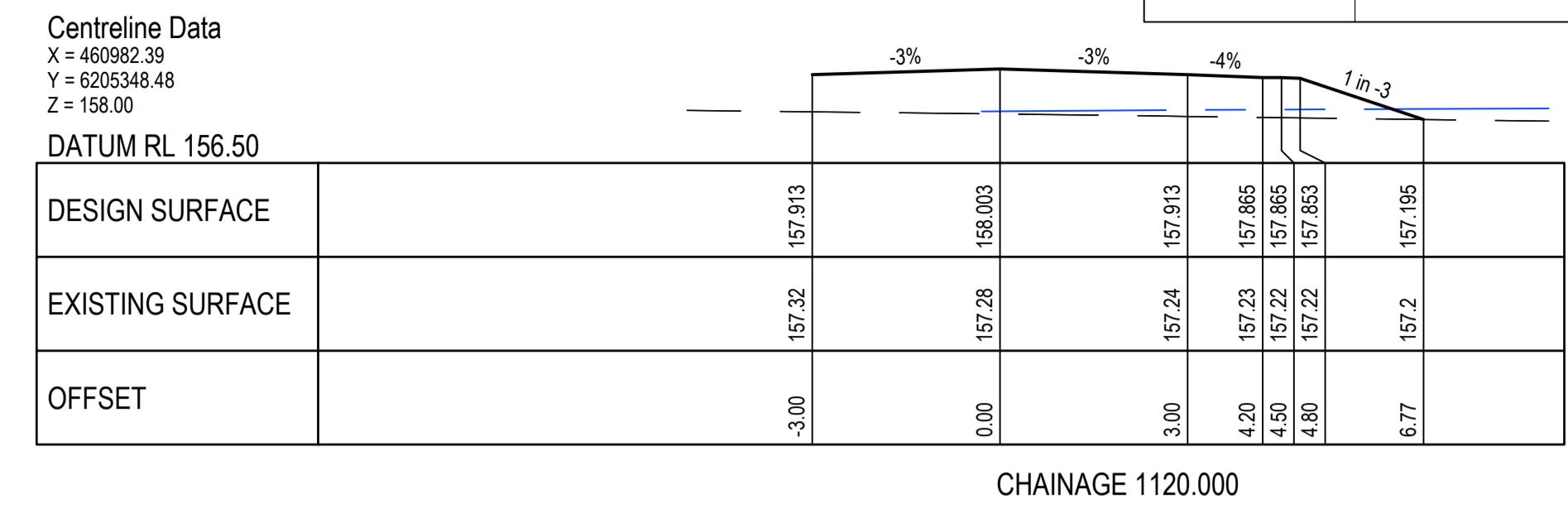
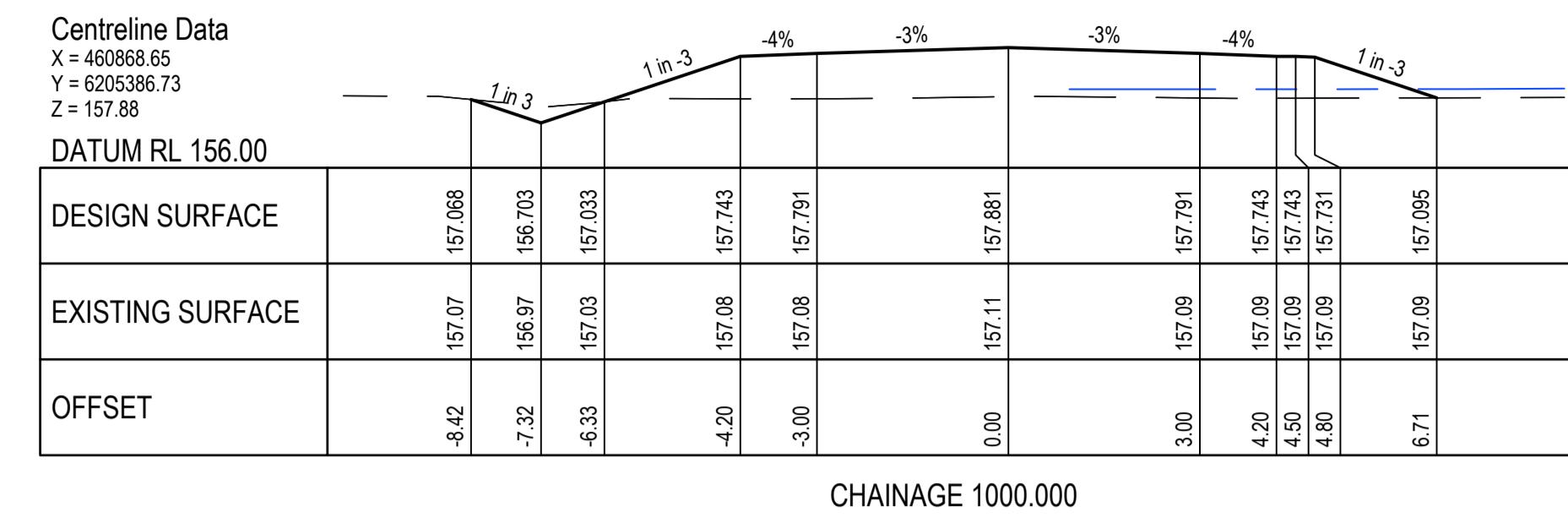
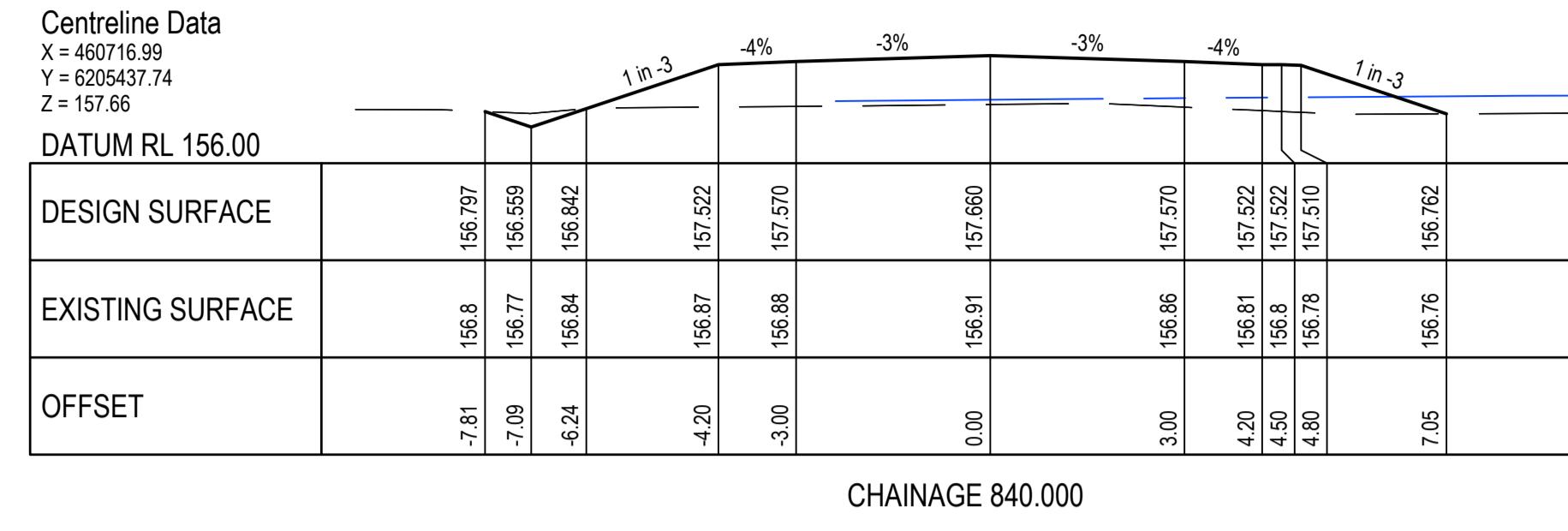
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DETAILED DESIGN
LEVEE CROSS SECTIONS
SHEET 2 OF 10

DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1201			A

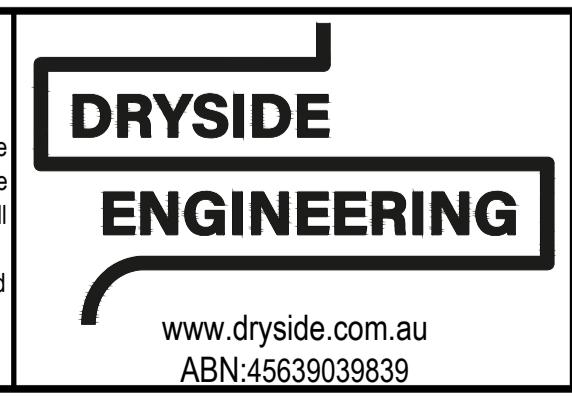


RS01 CROSS SECTIONS

SCALE H 1:100m V 1:100m

0 1 2 4m
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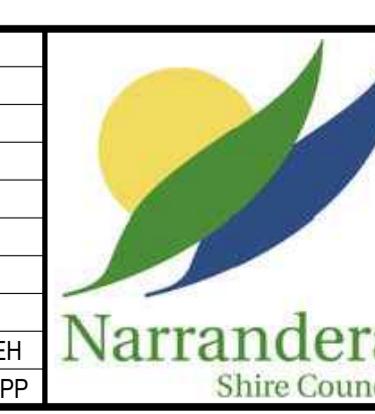
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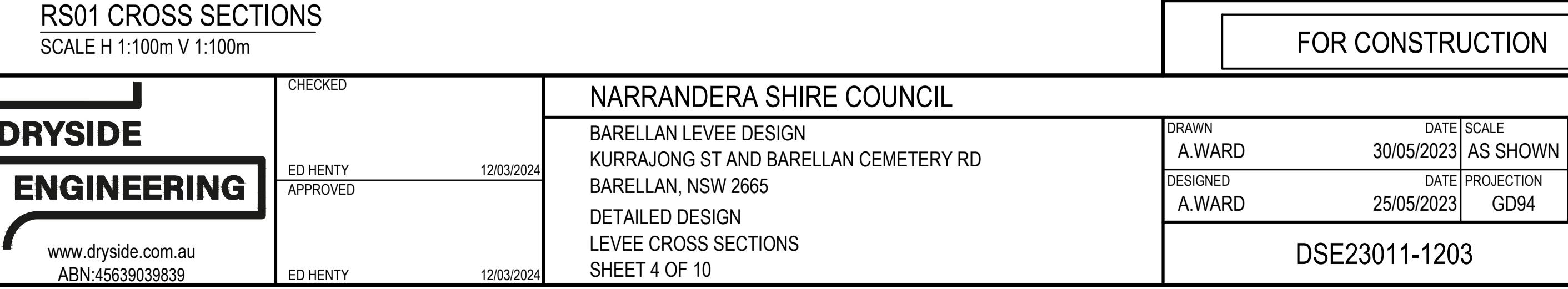
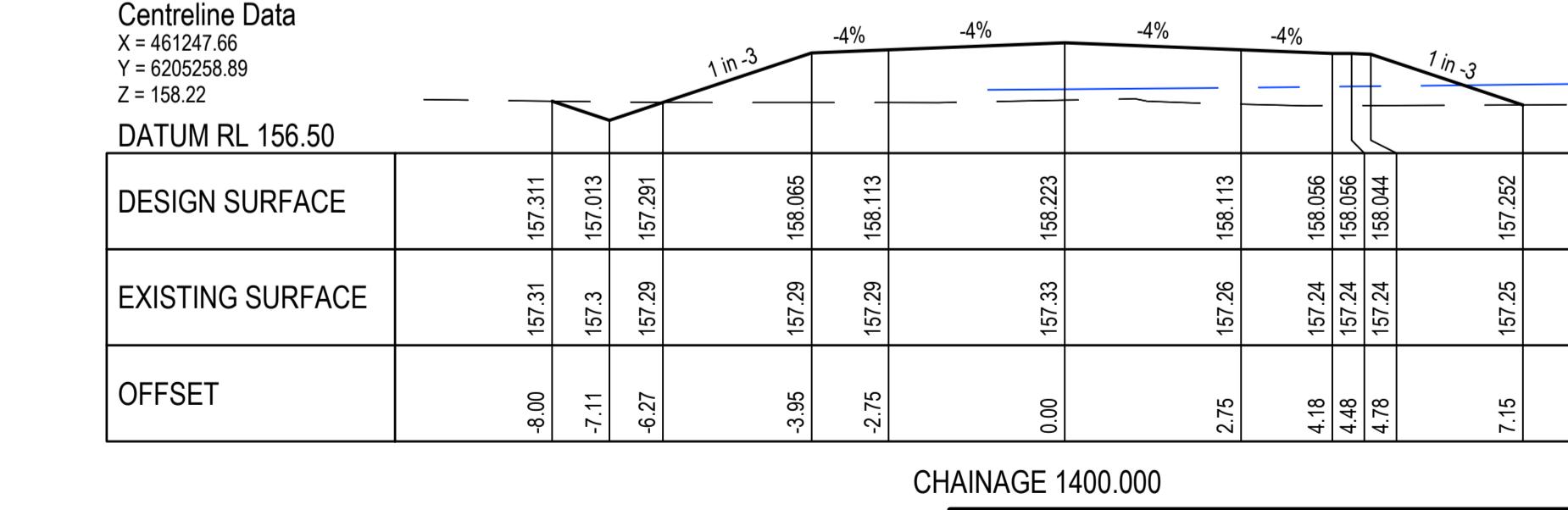
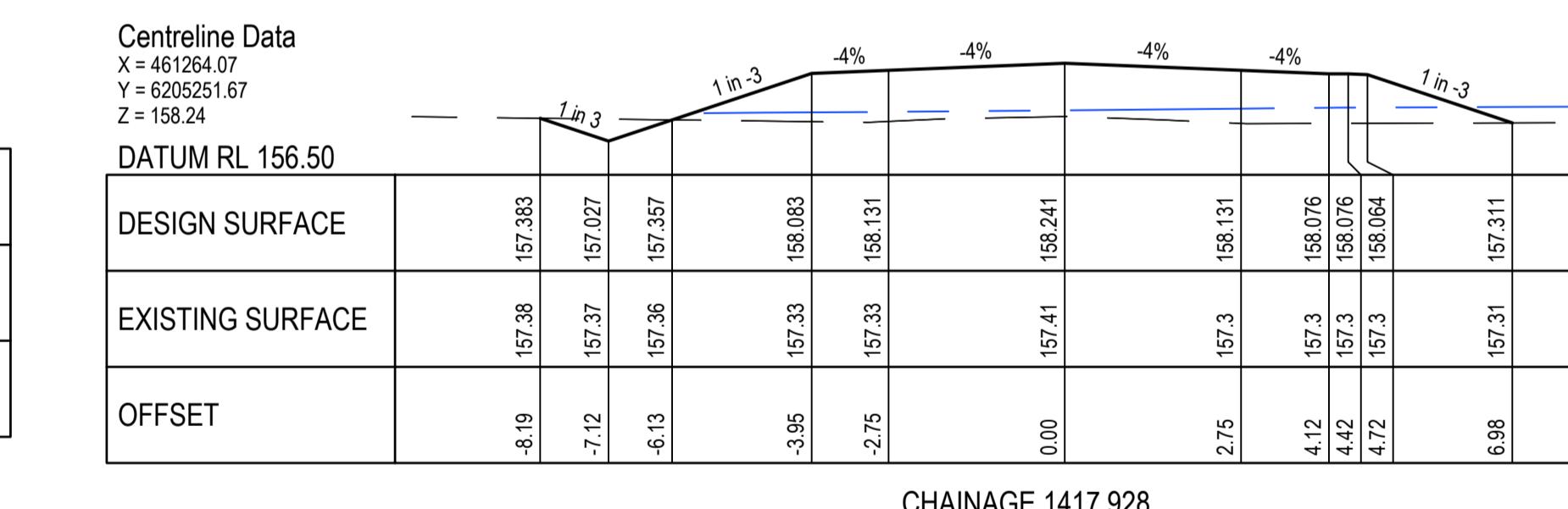
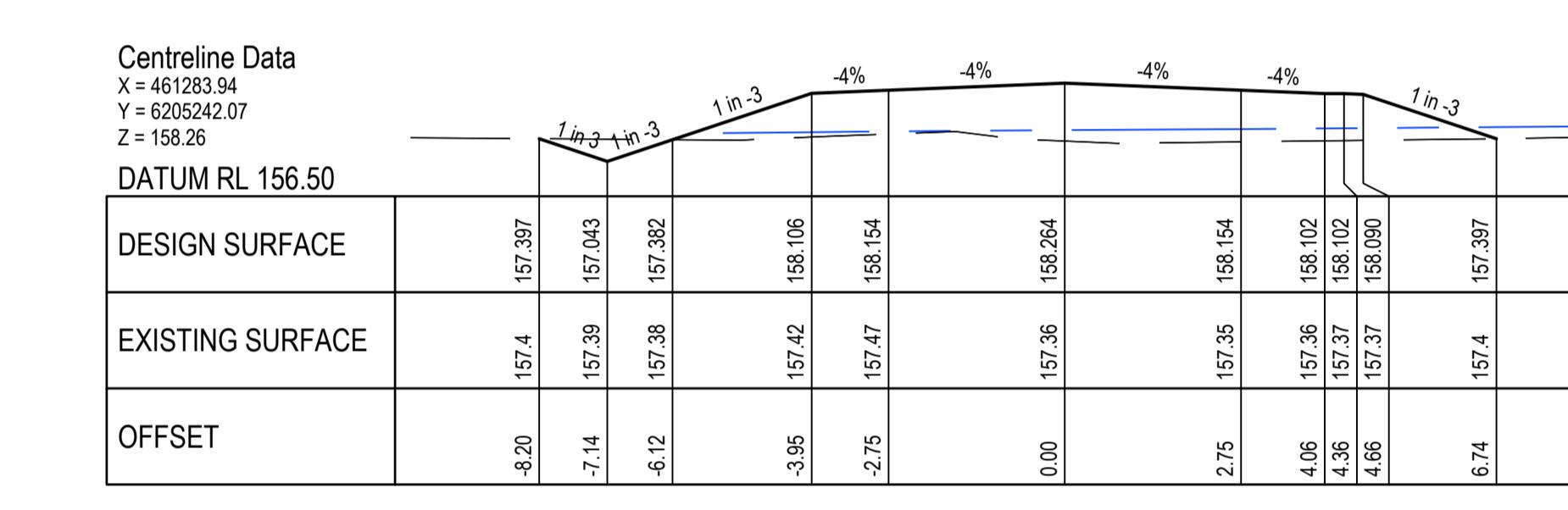
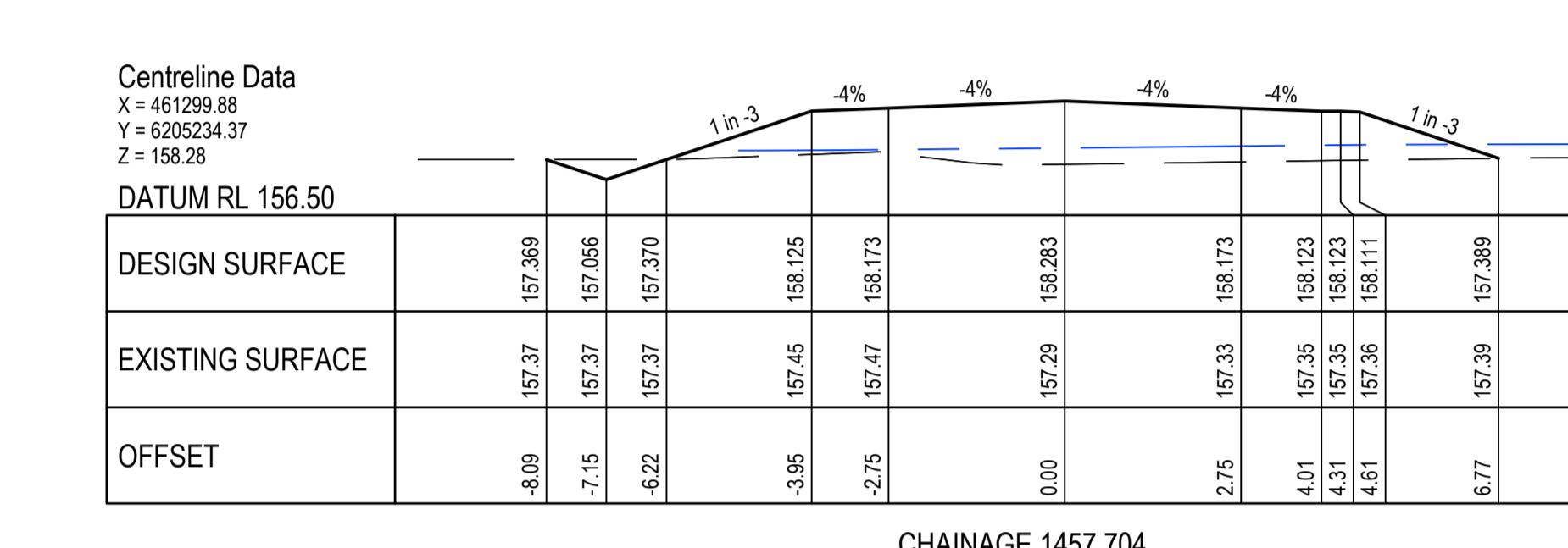
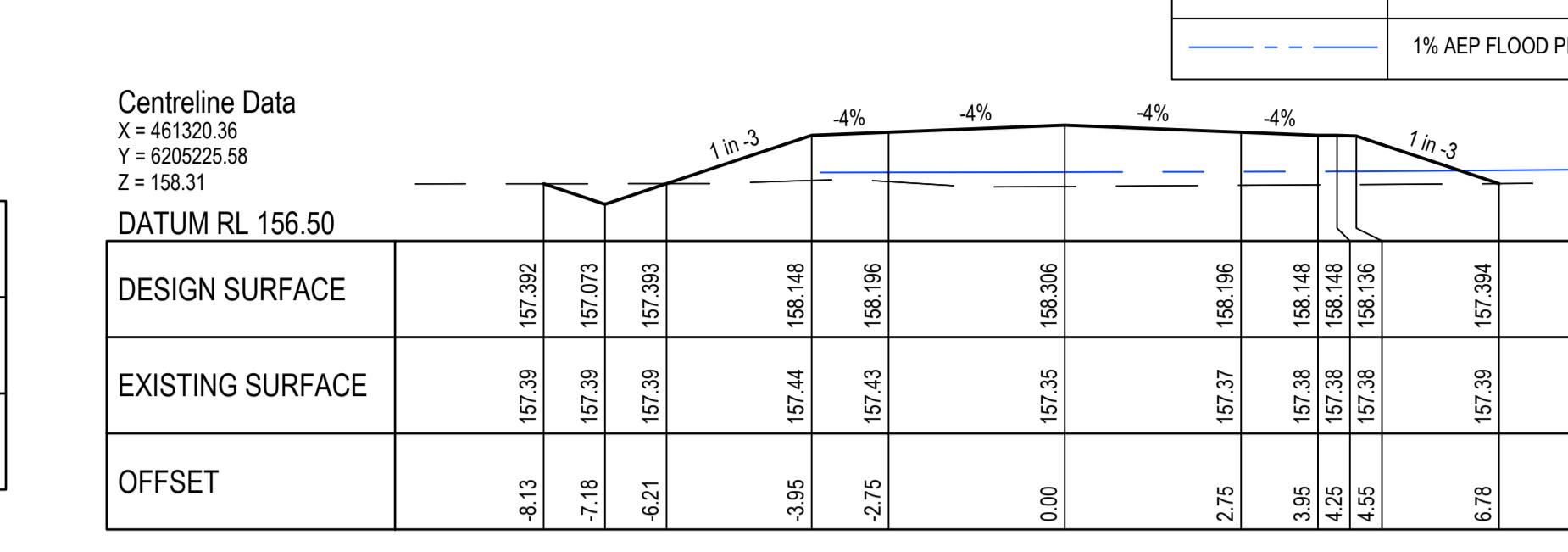
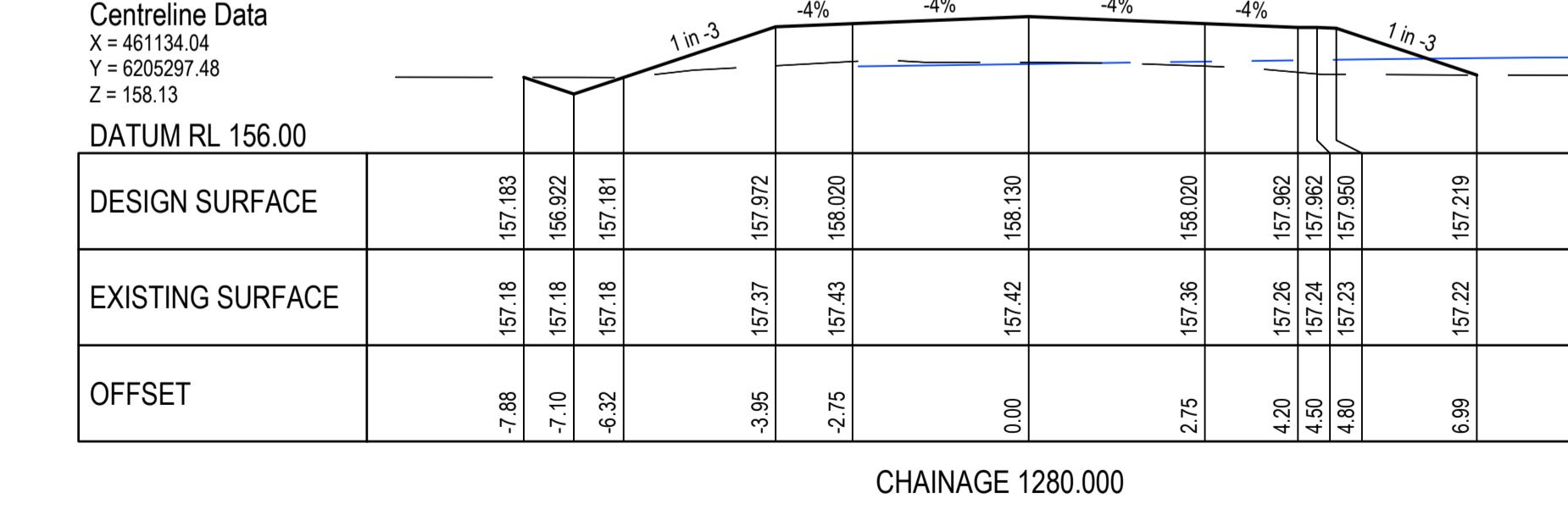
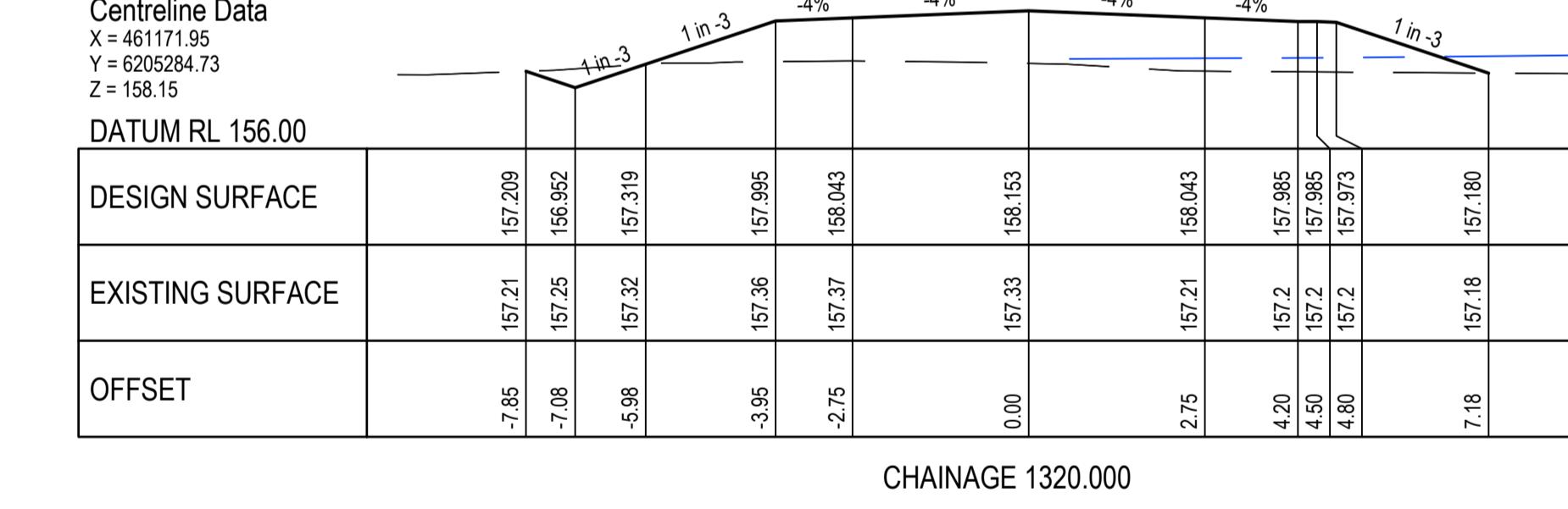
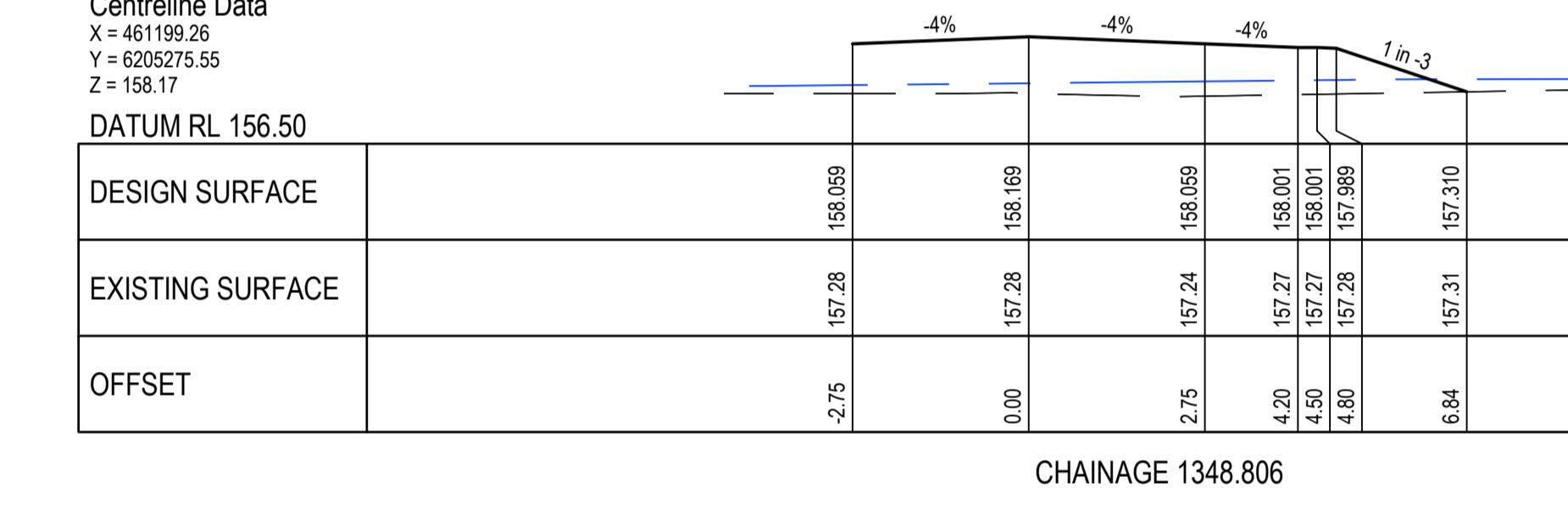
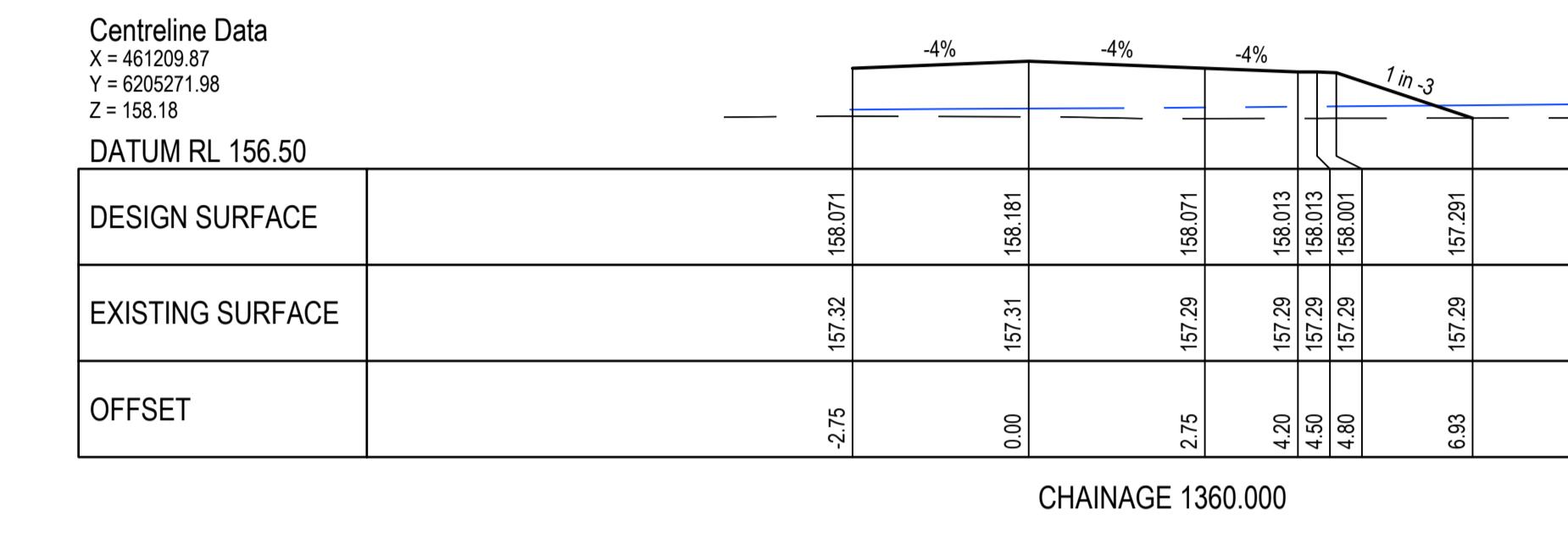
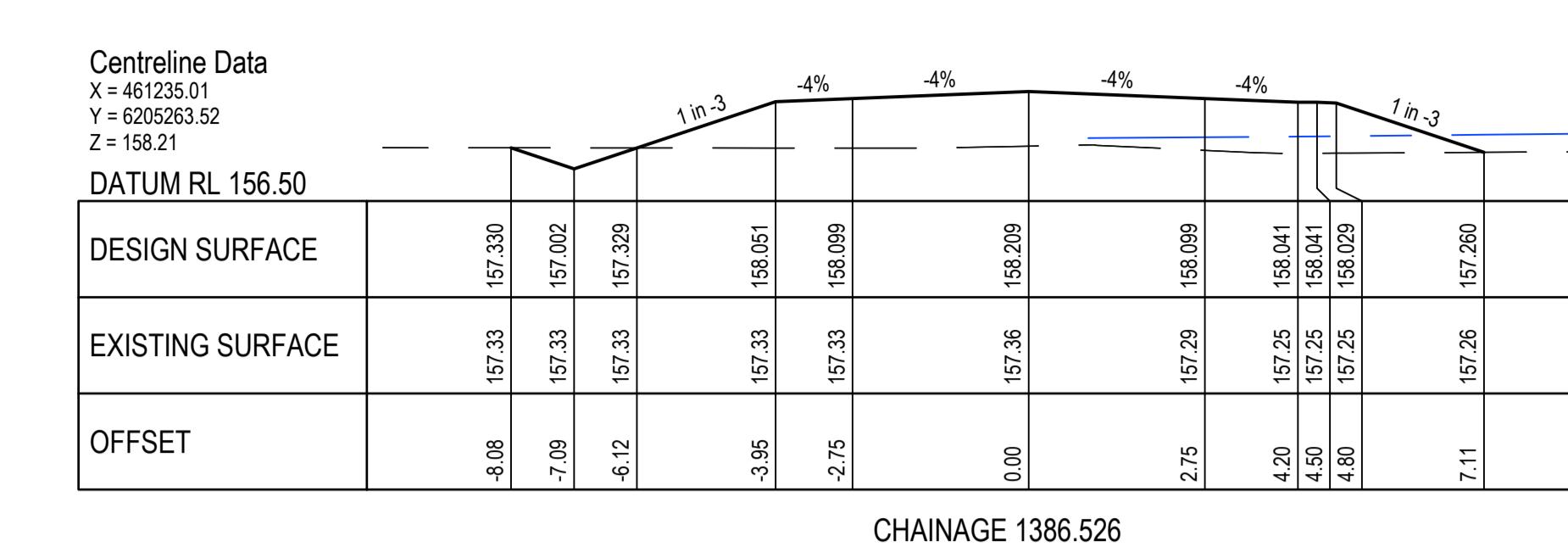
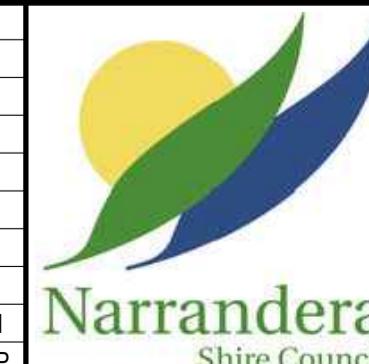
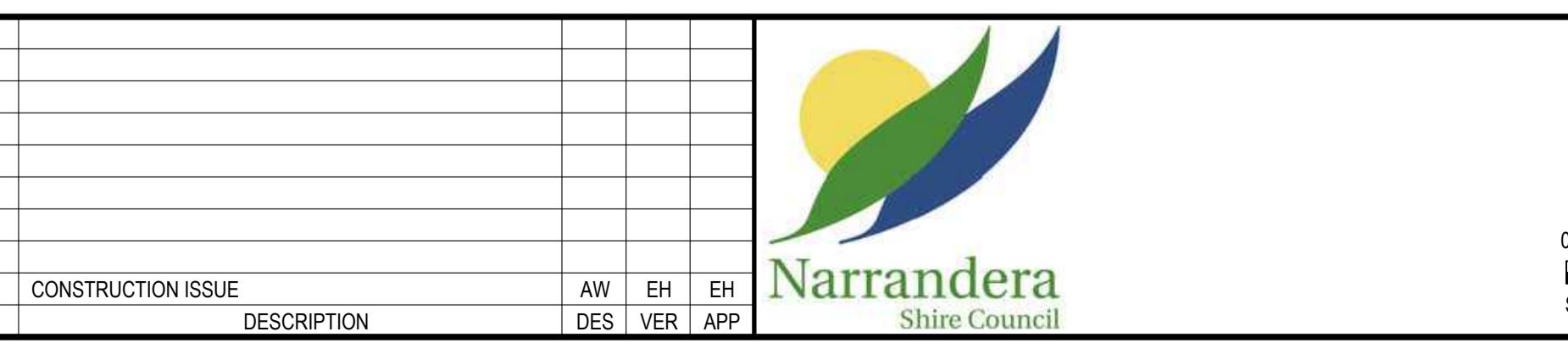
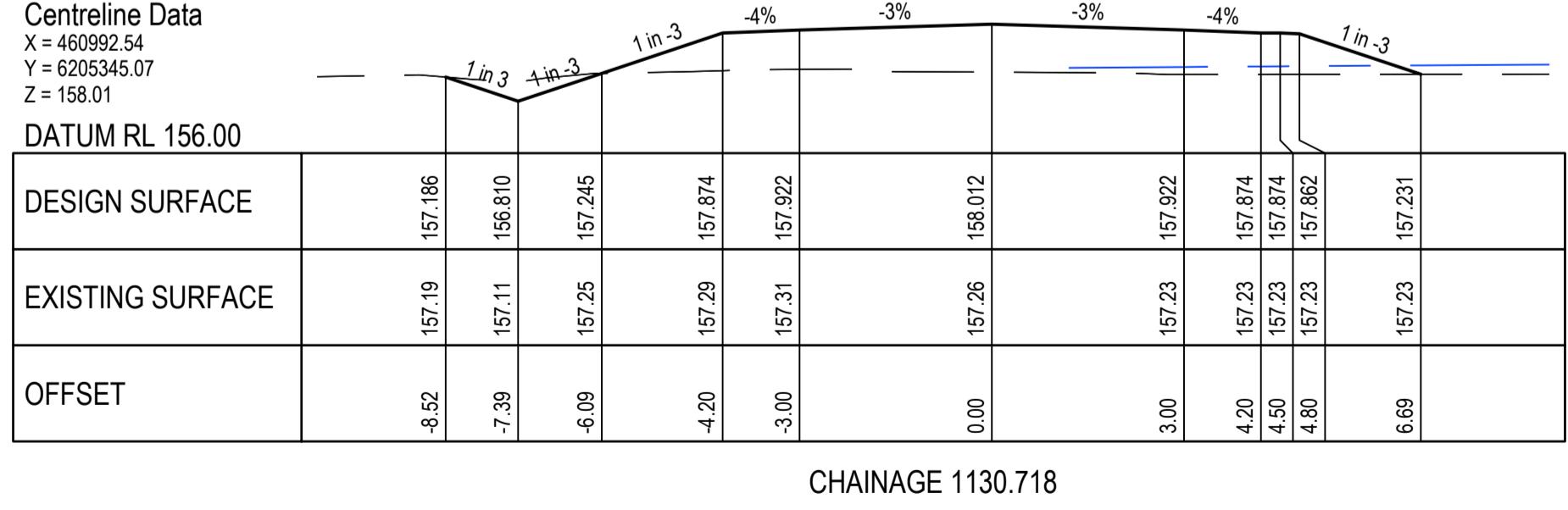
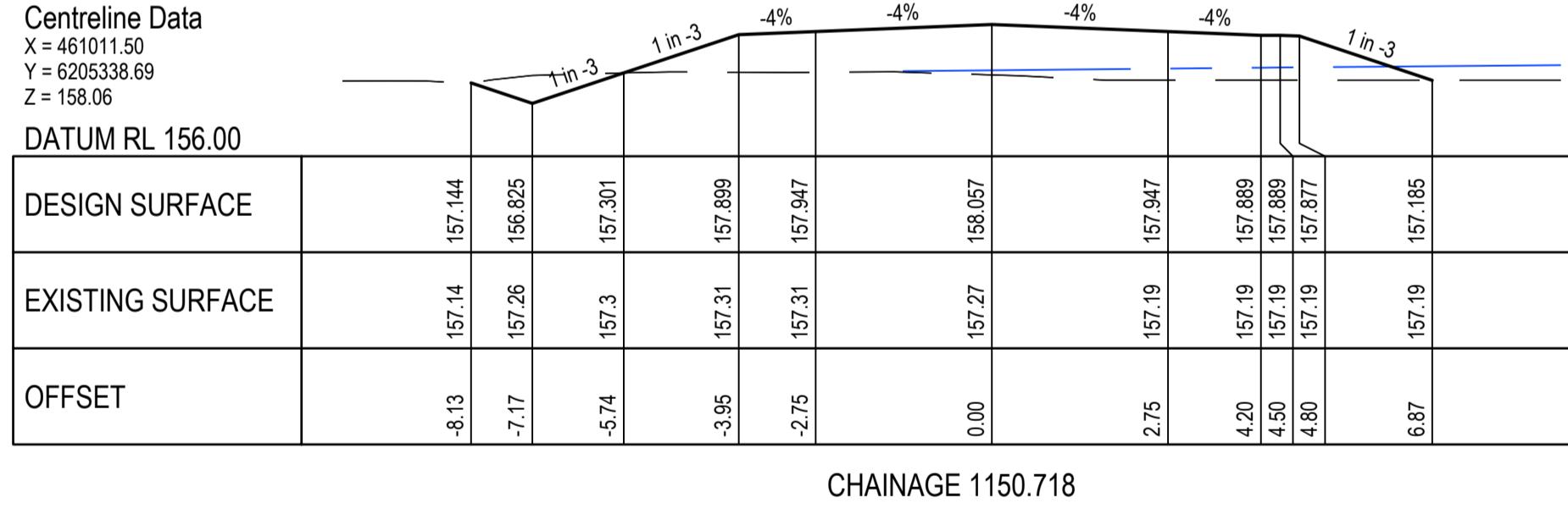
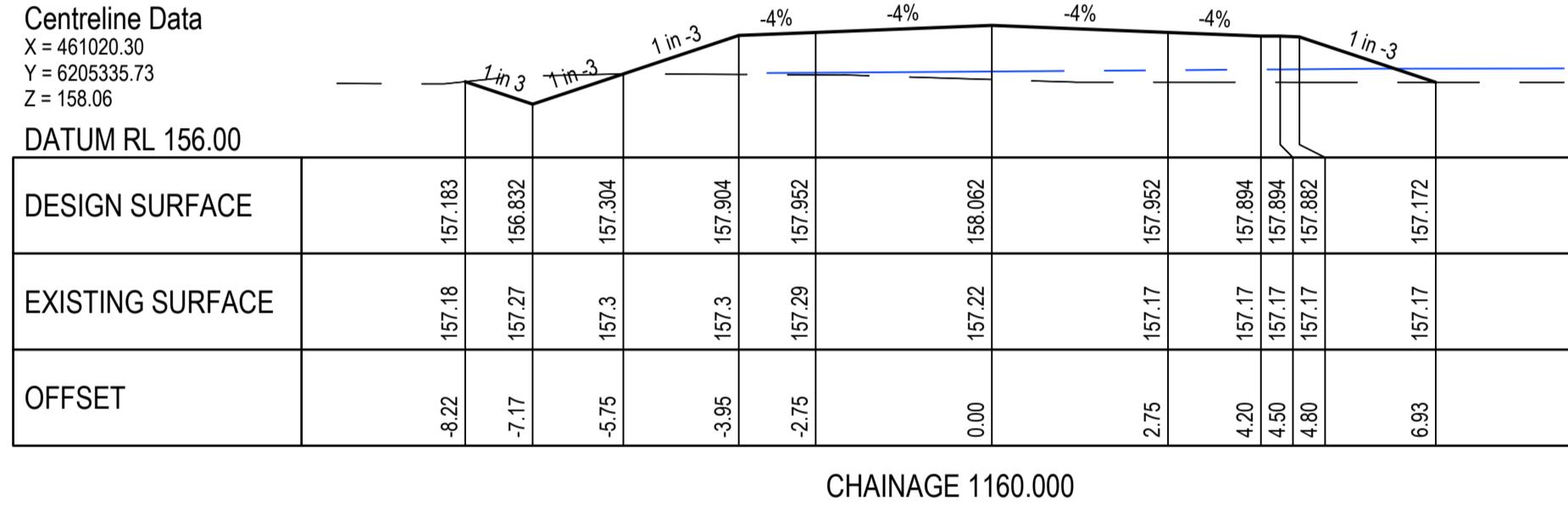
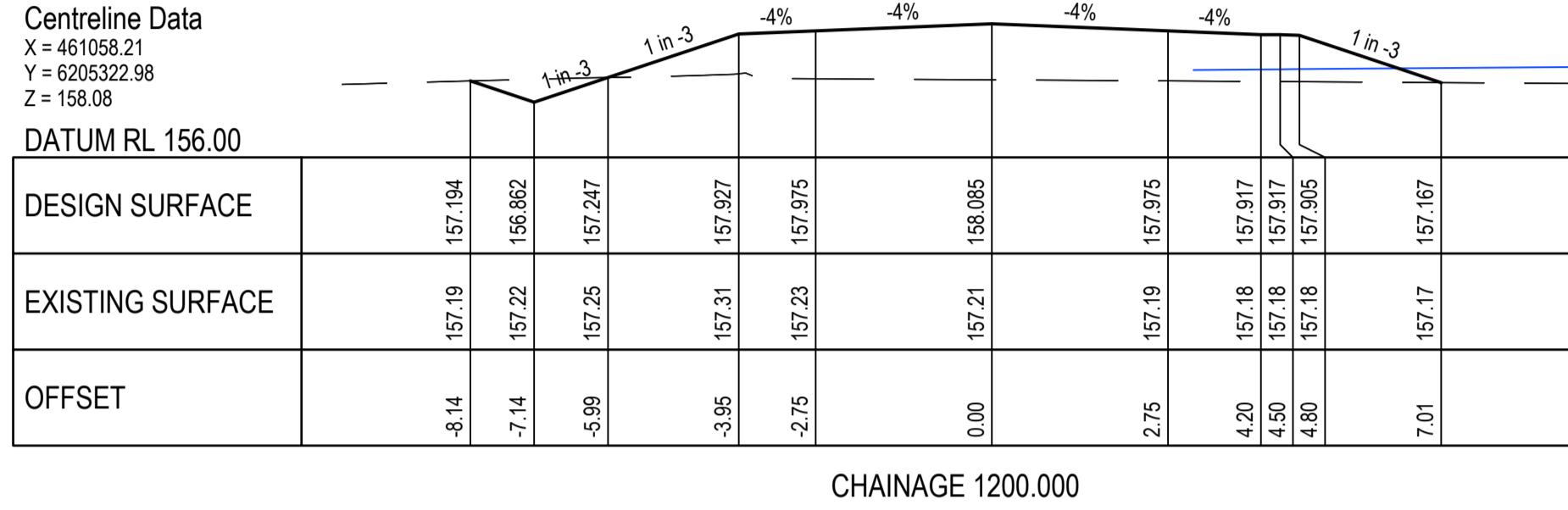
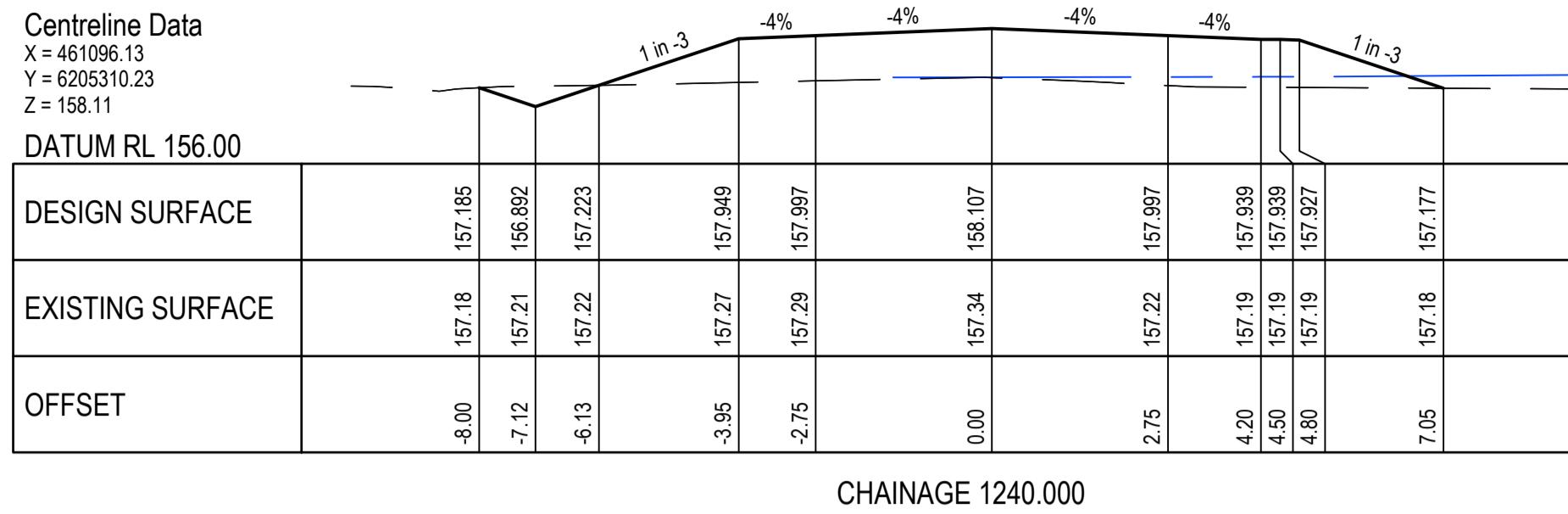
NARRANDERA SHIRE COUNCIL
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
LEVEE CROSS SECTIONS
SHEET 3 OF 10

FOR CONSTRUCTION

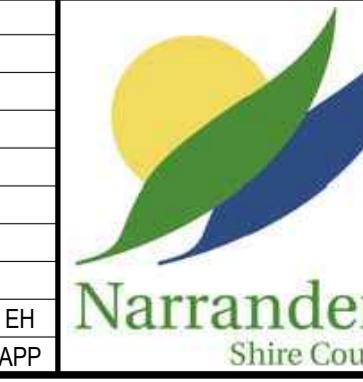
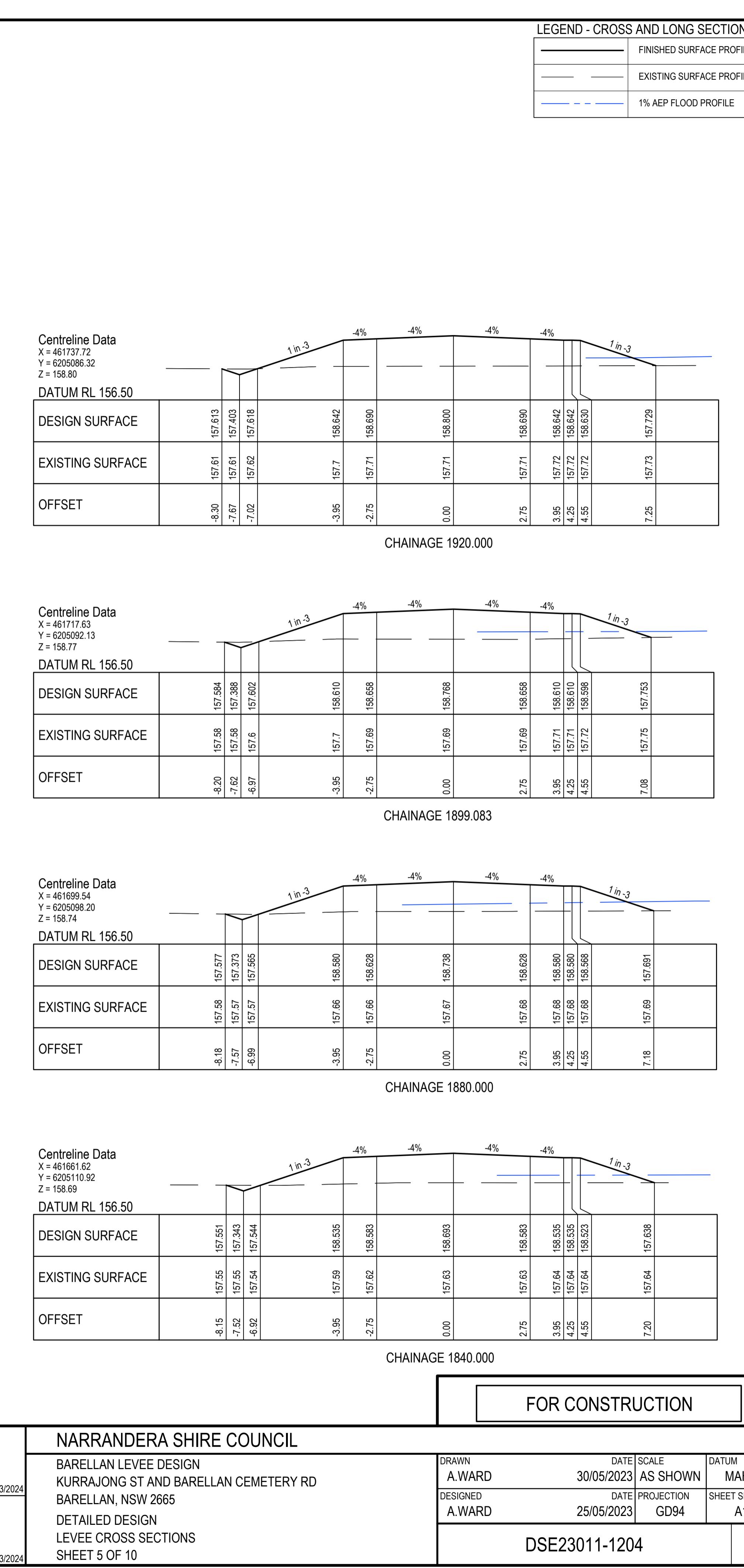
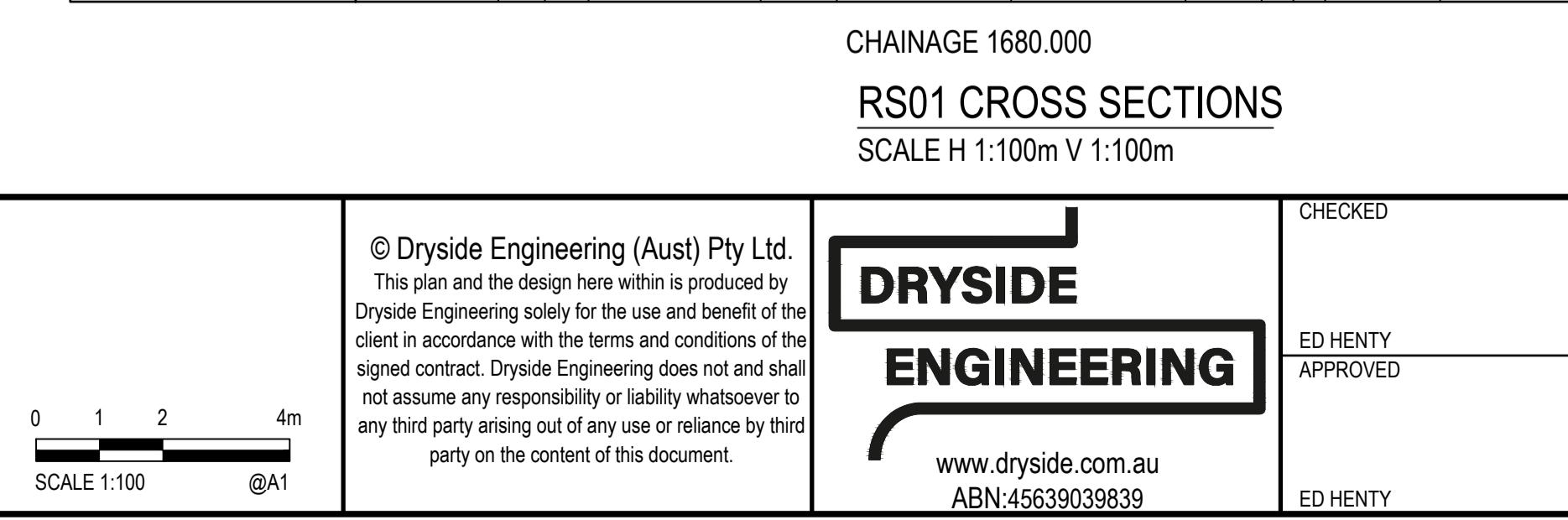
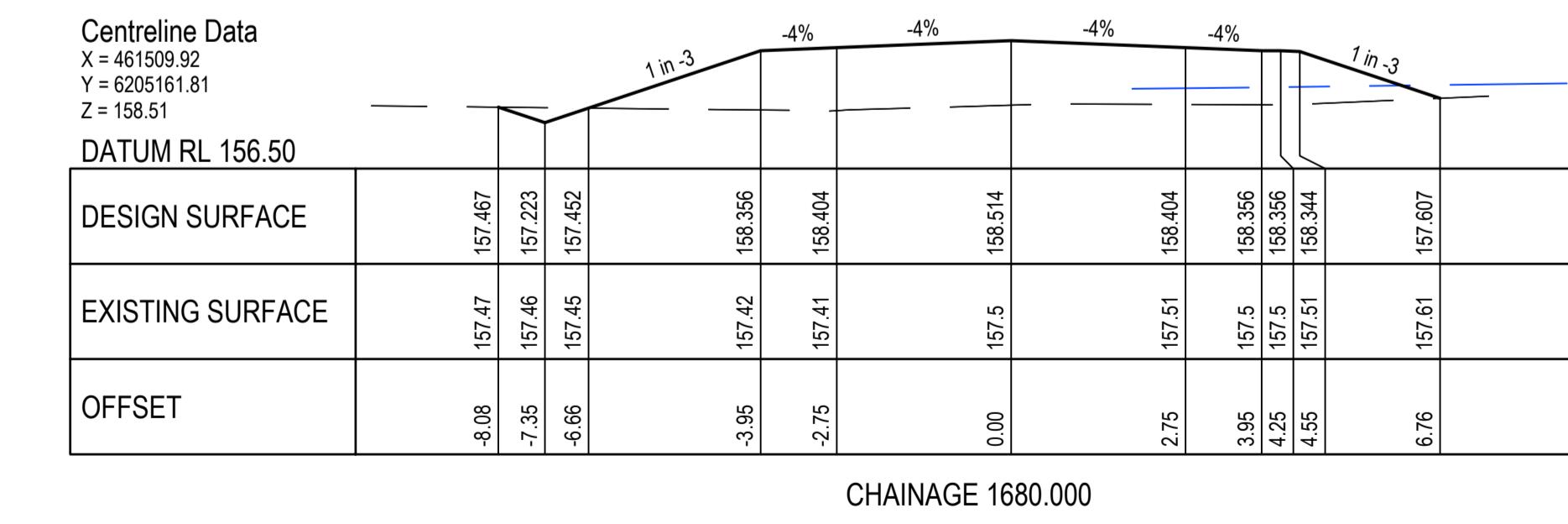
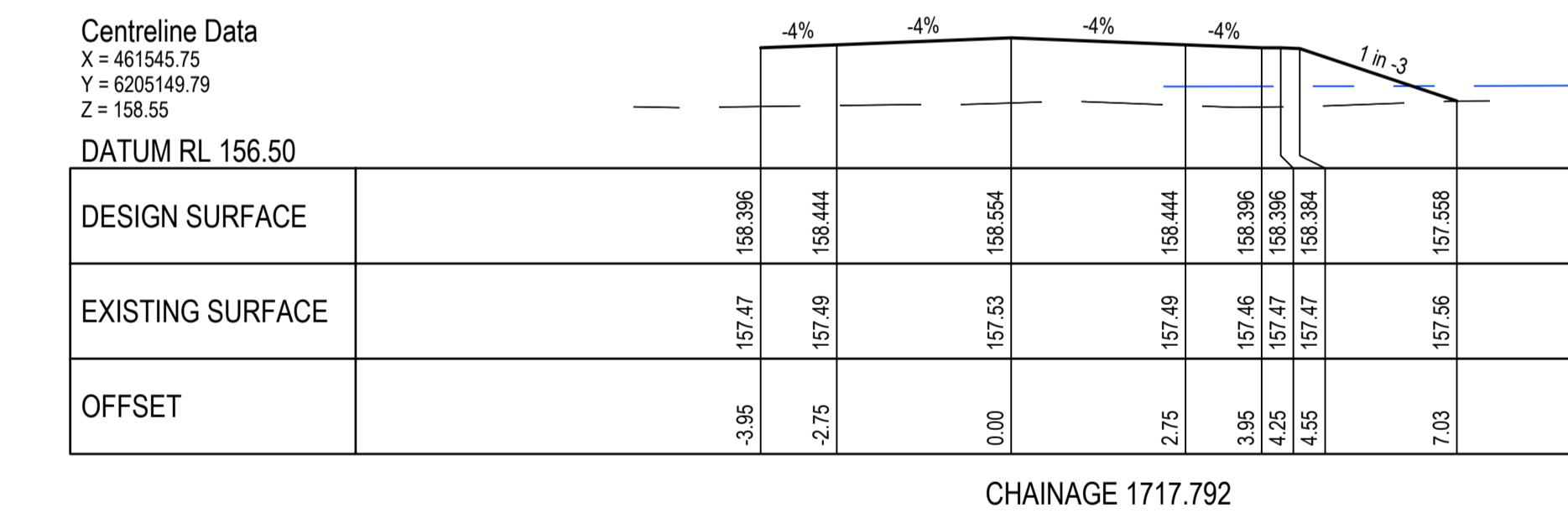
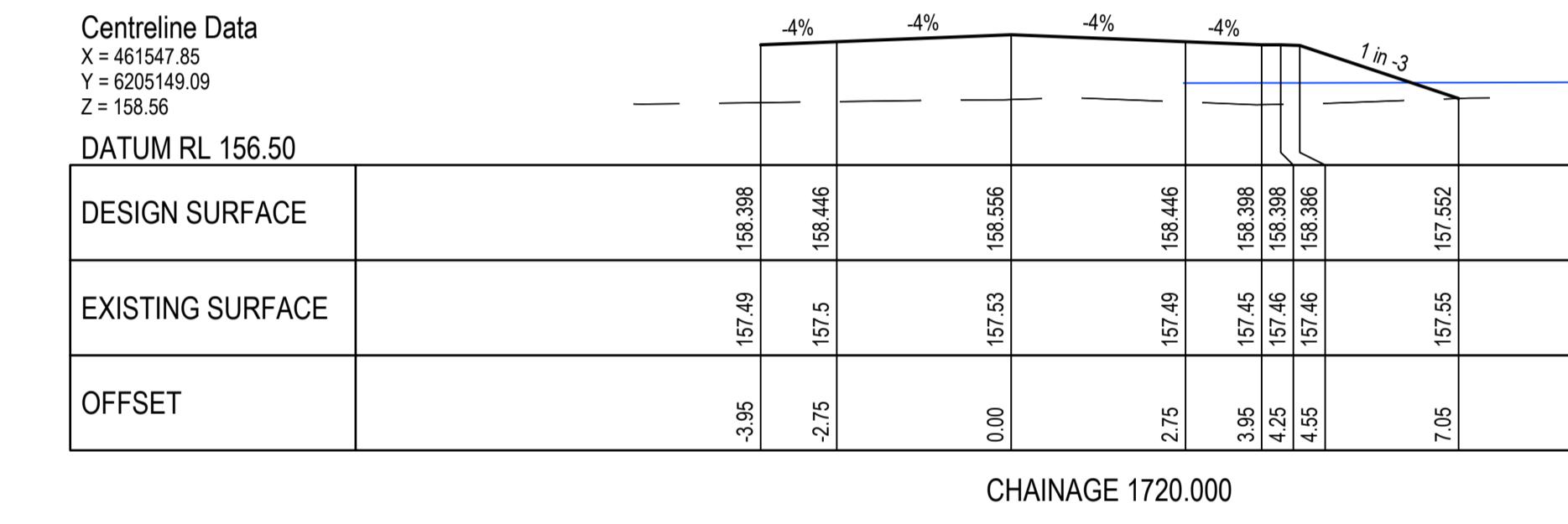
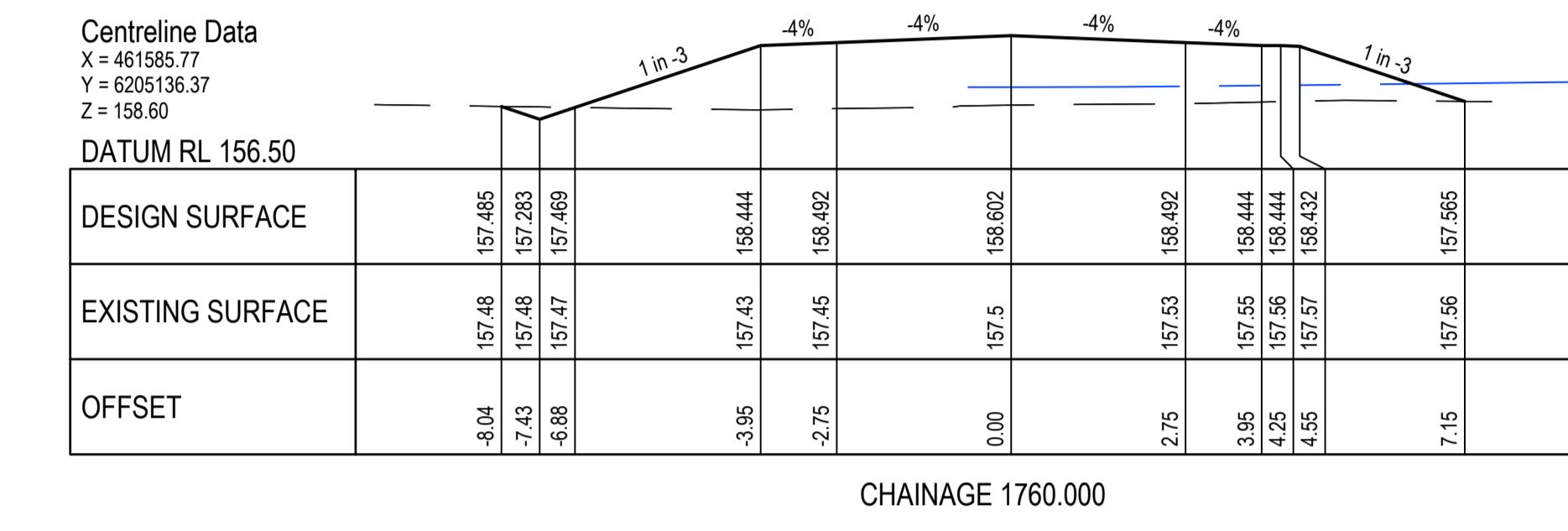
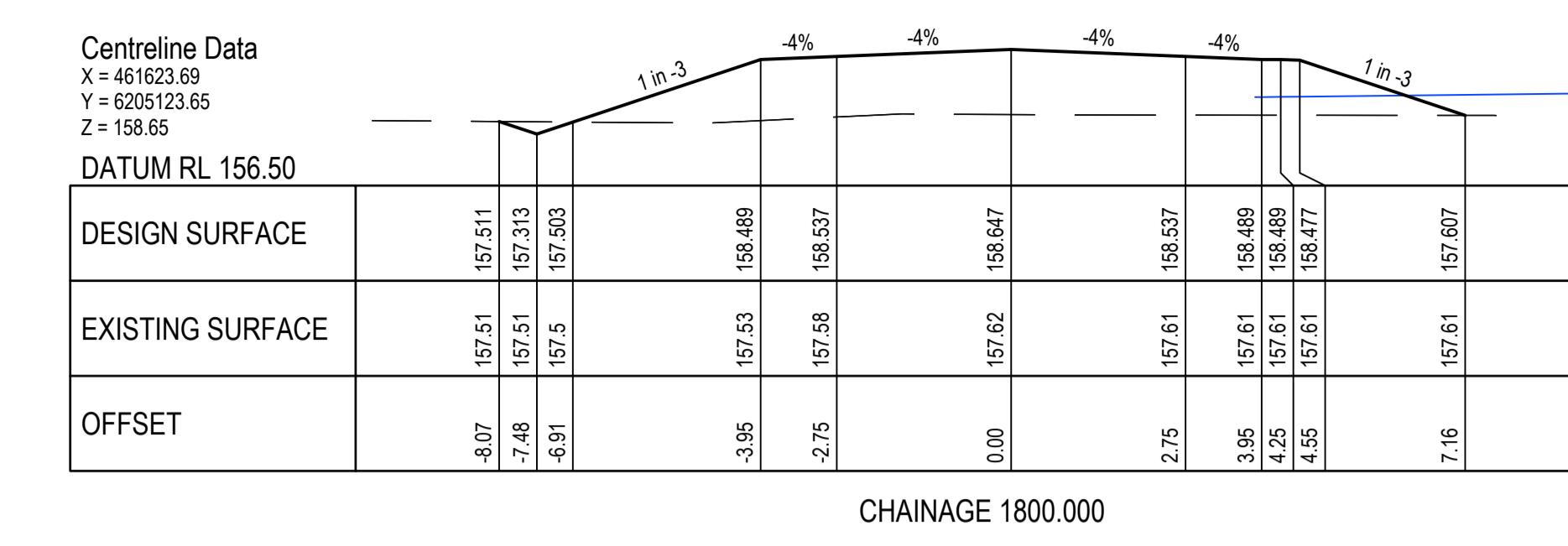
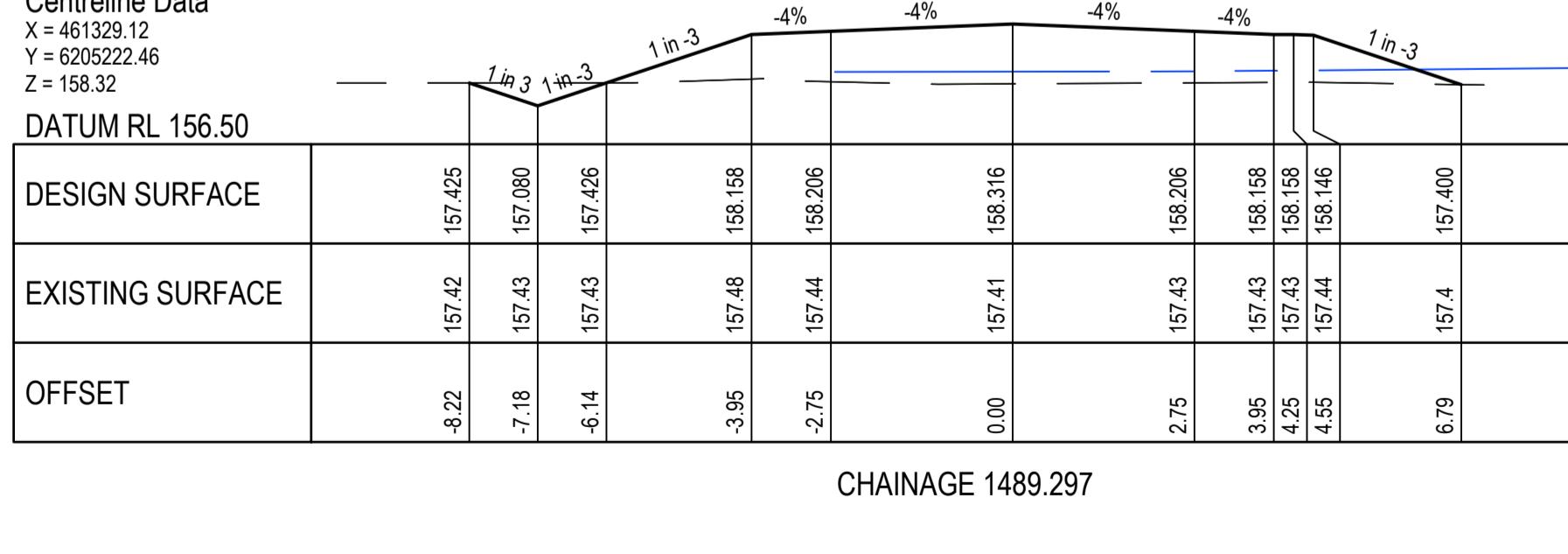
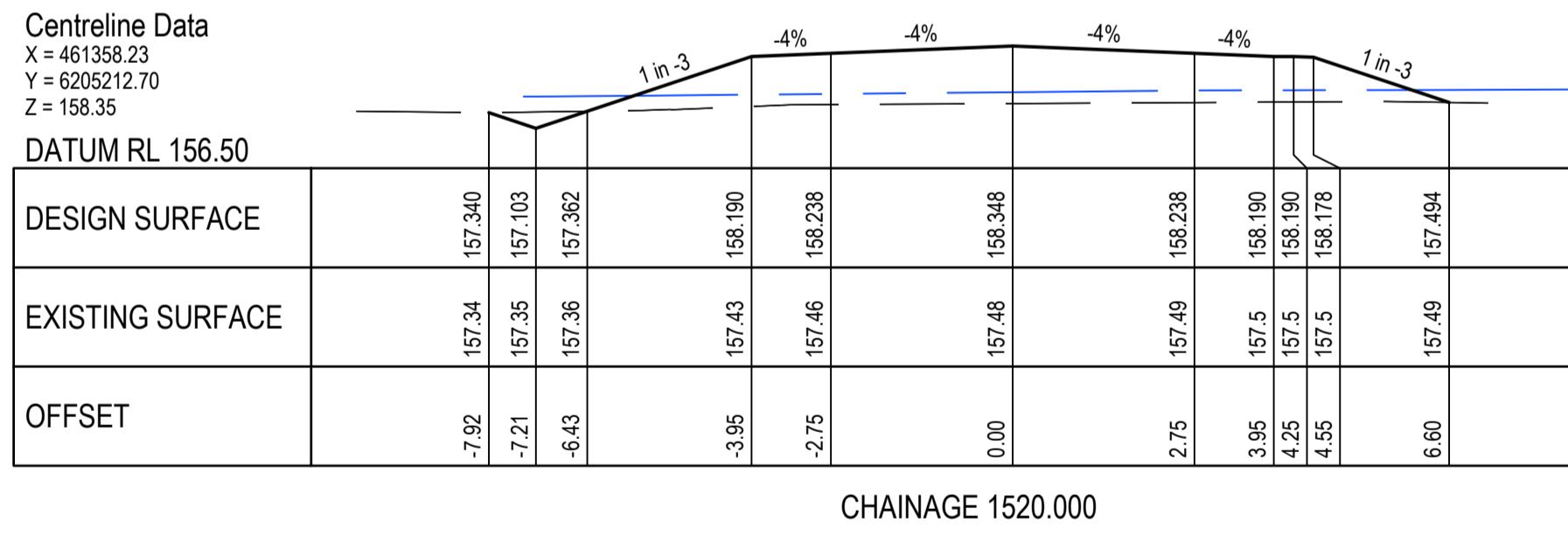
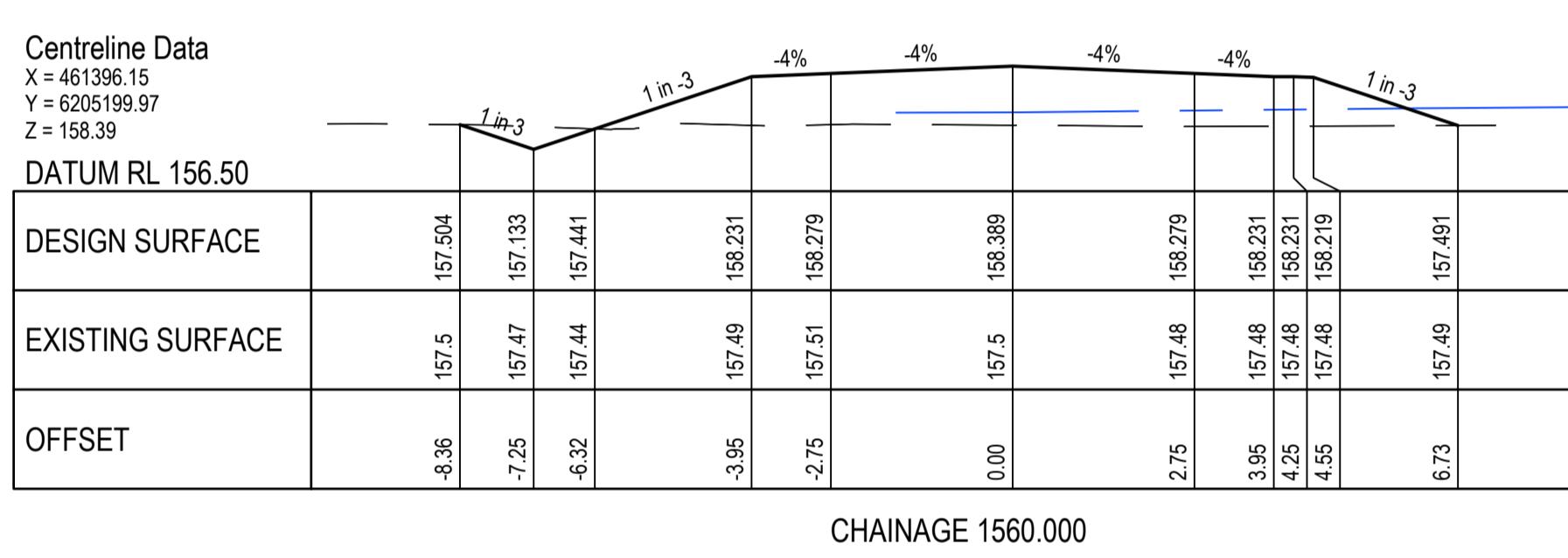
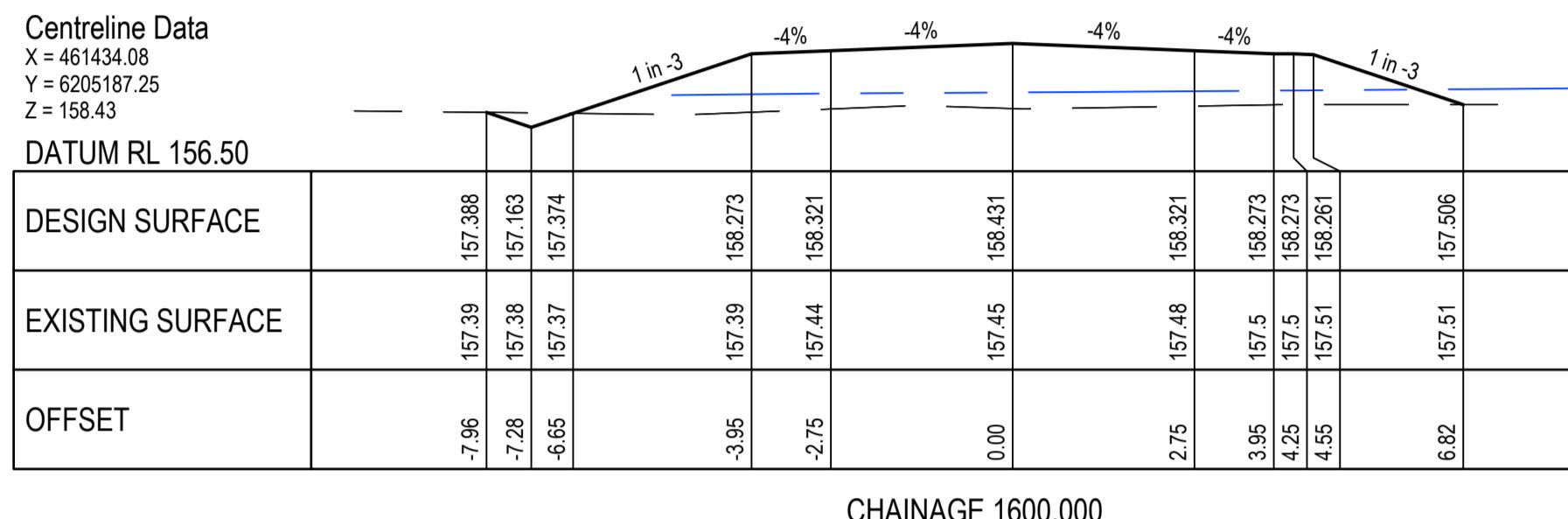
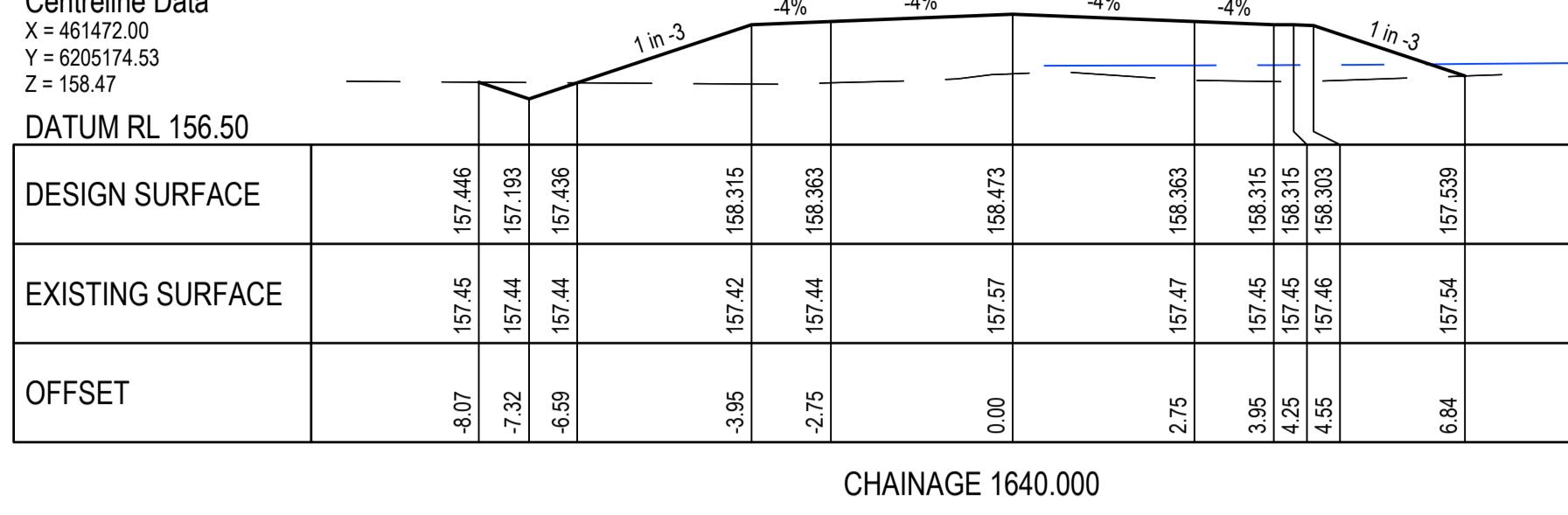
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A.WARD DATE 30/05/2023 SCALE AS SHOWN DATUM MAHD
DESIGNED
A.WARD DATE 25/05/2023 PROJECTION GD94 SHEET SIZE A1
DSE23011-1202 A

A	12/03/2024	CONSTRUCTION ISSUE	DESCRIPTION	AW	EH	EH	DES	VER	APP
REV									



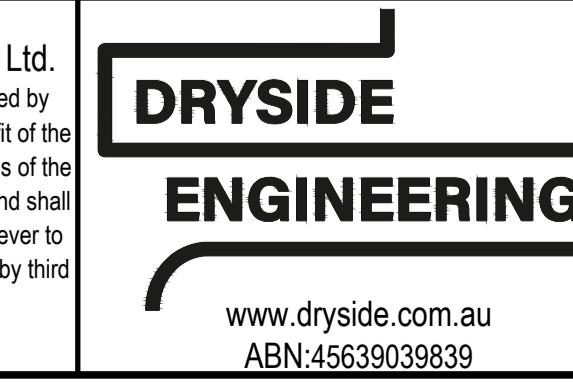


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0 1 2 4m
SCALE 1:100 @A1

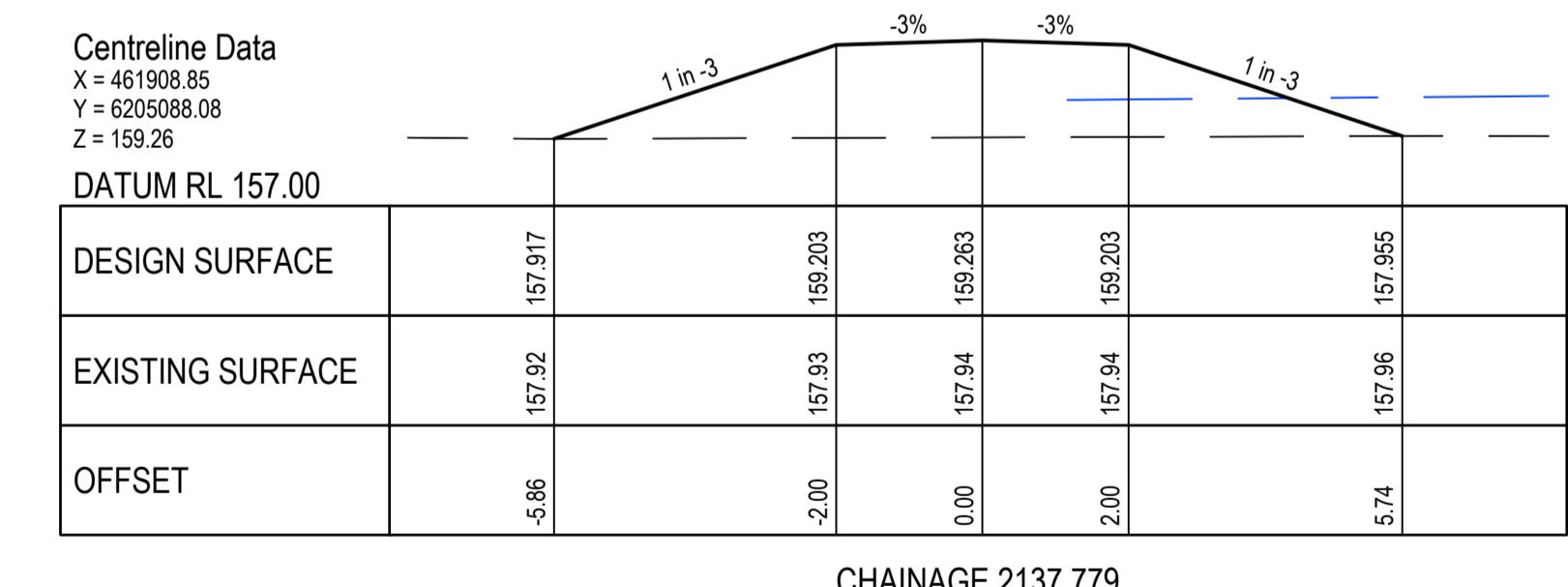
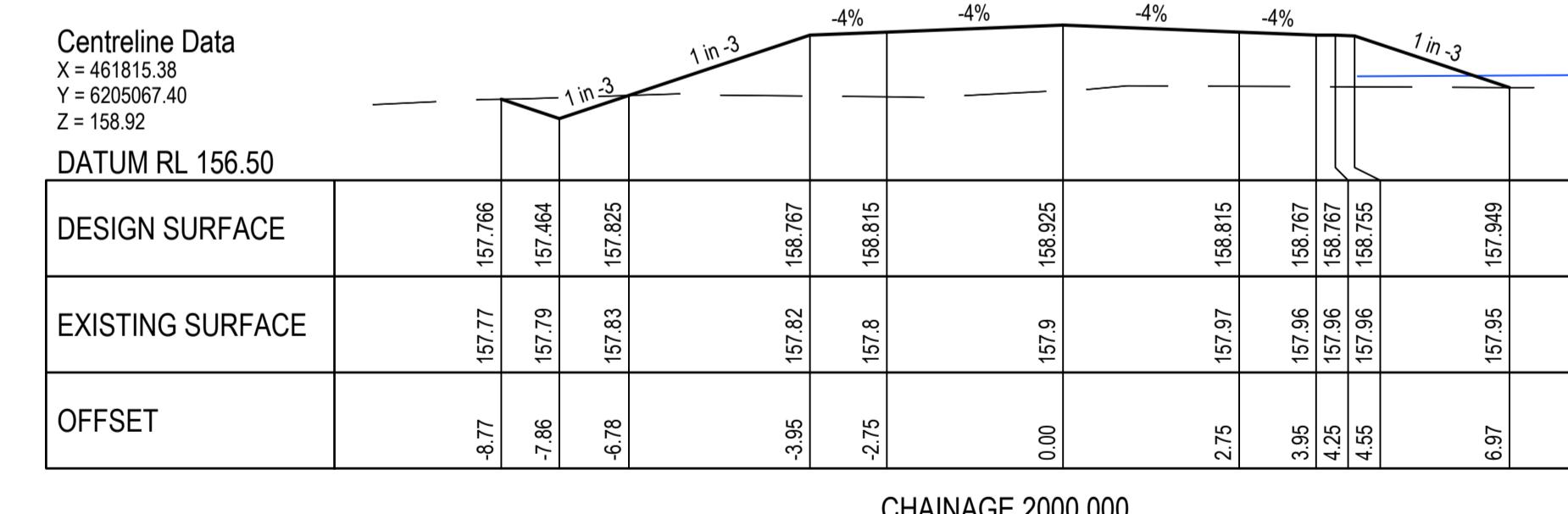
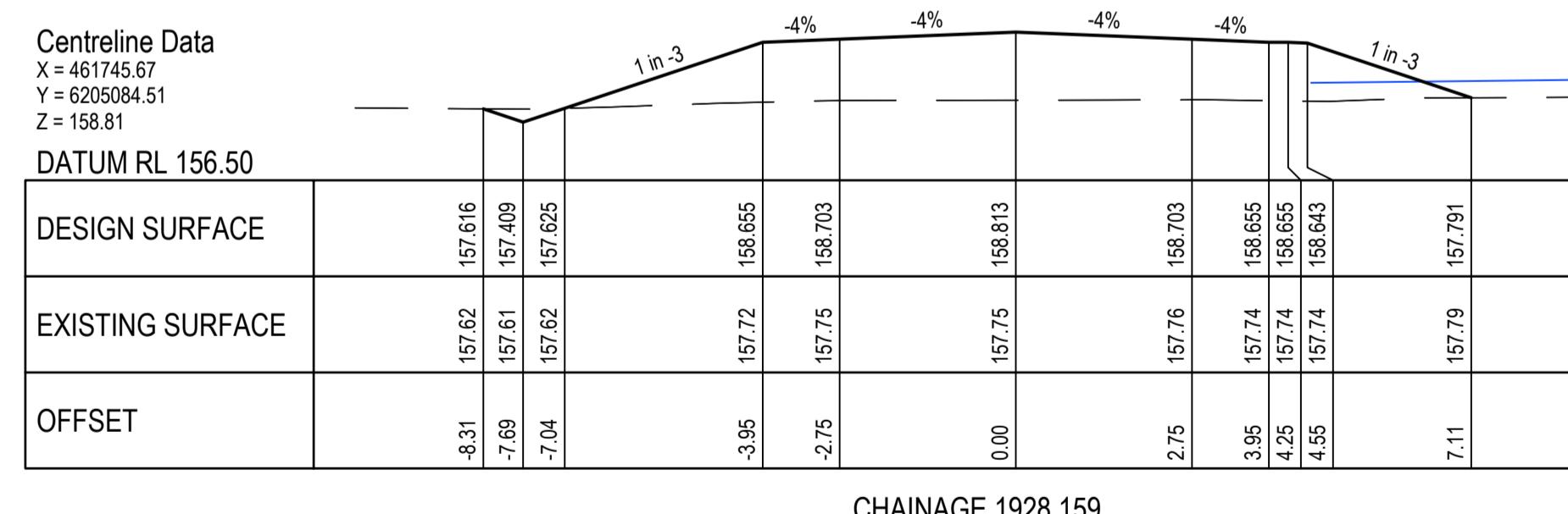
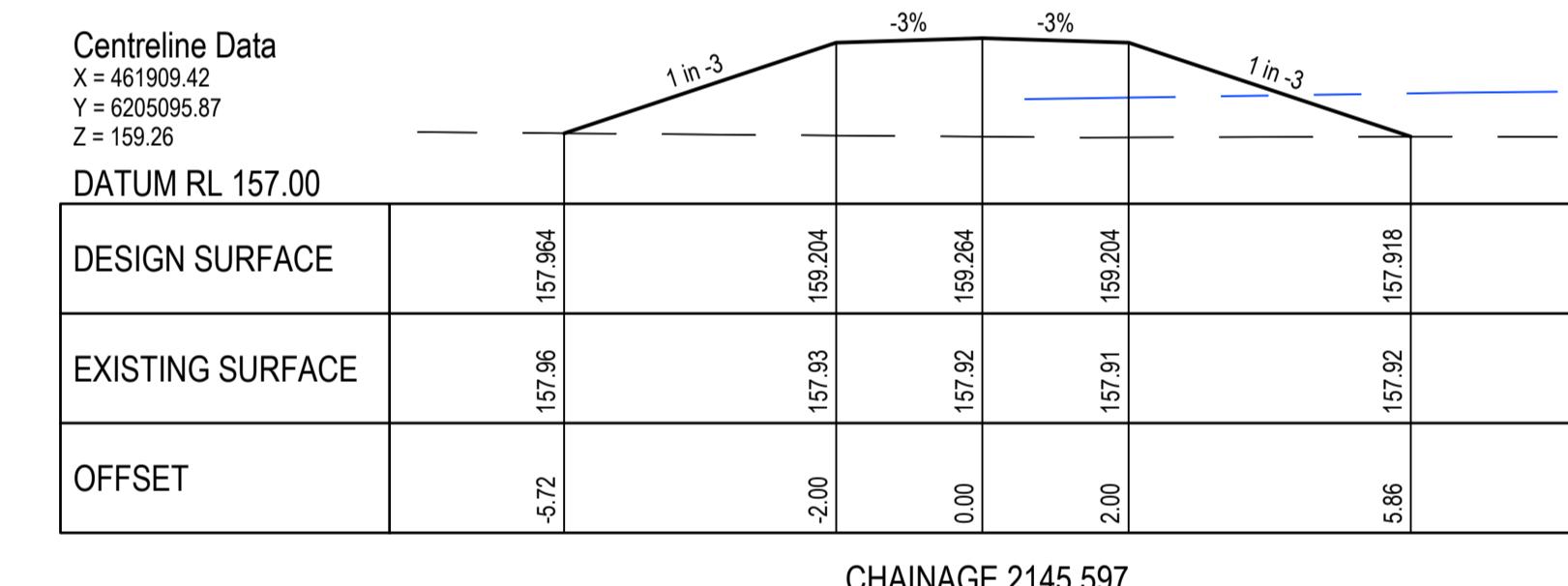
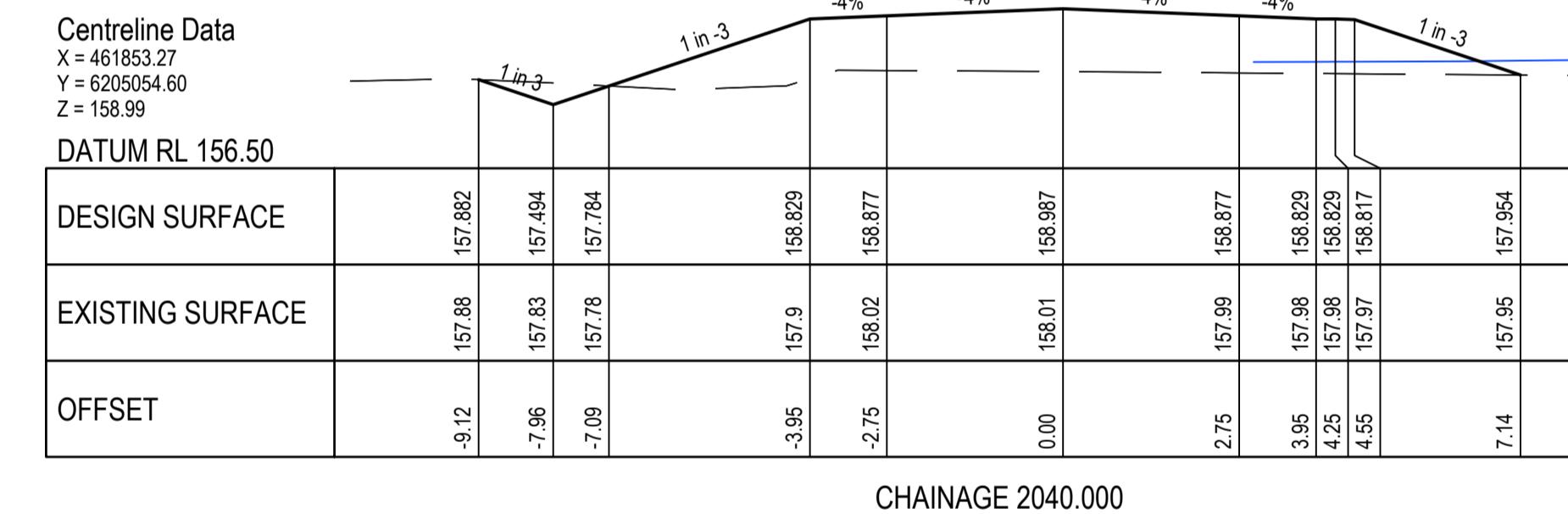
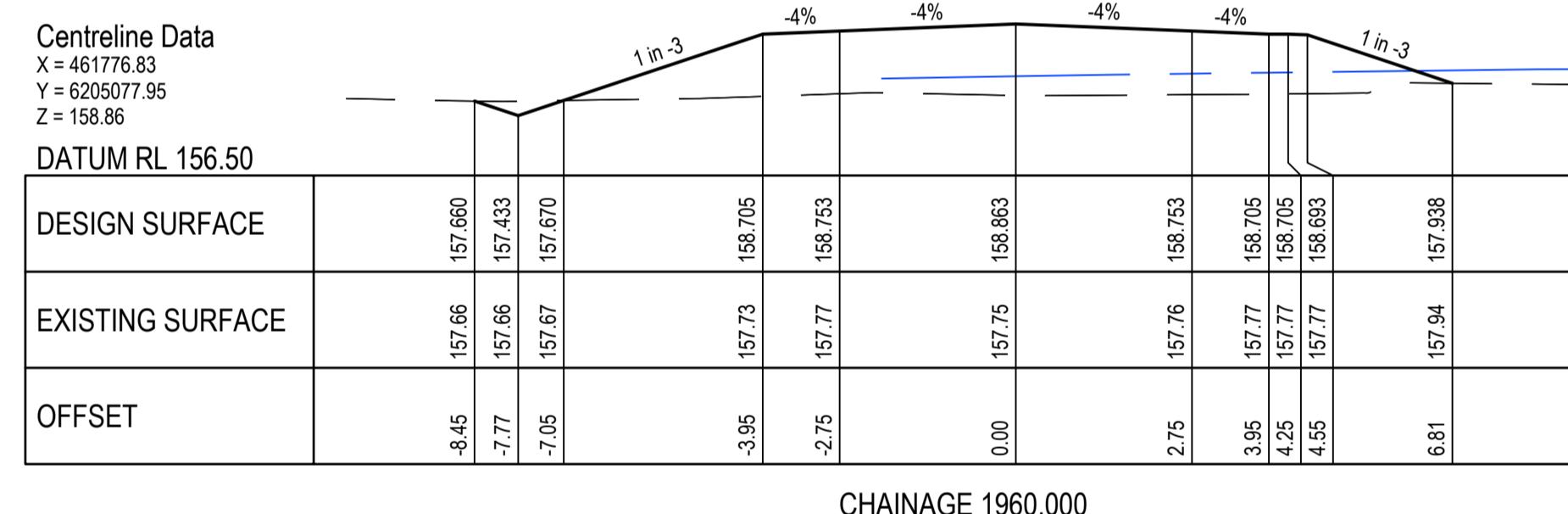
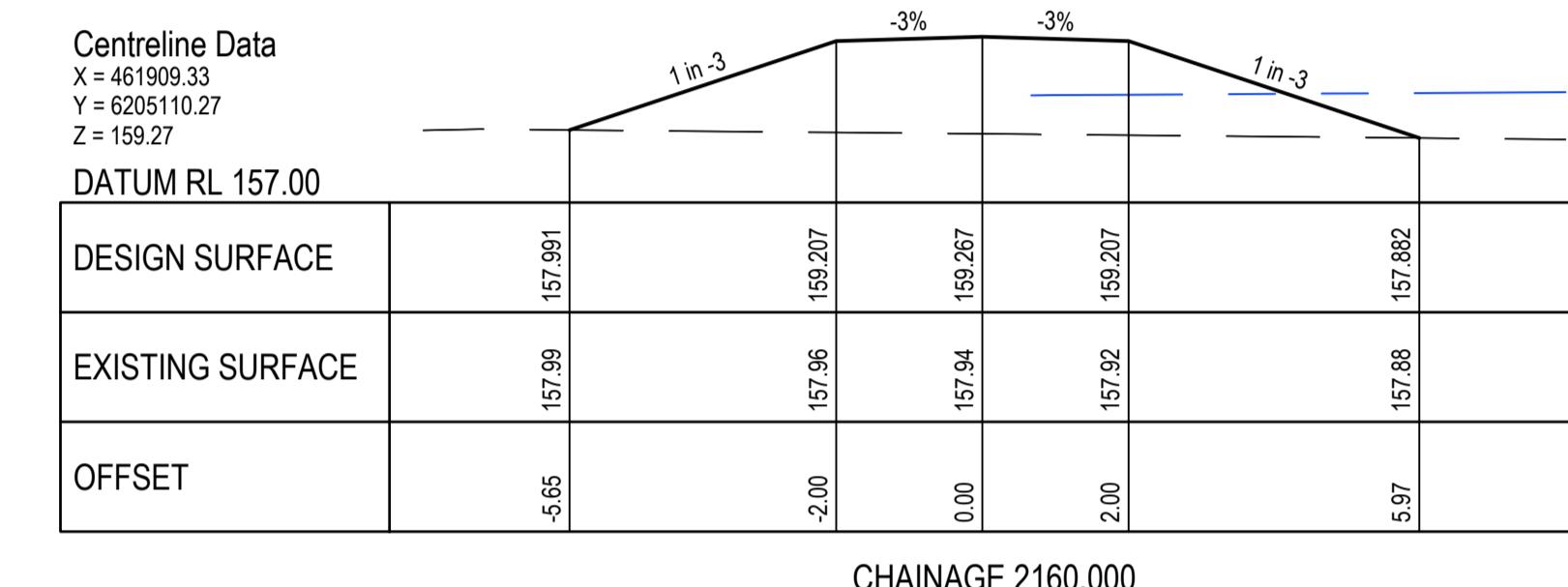
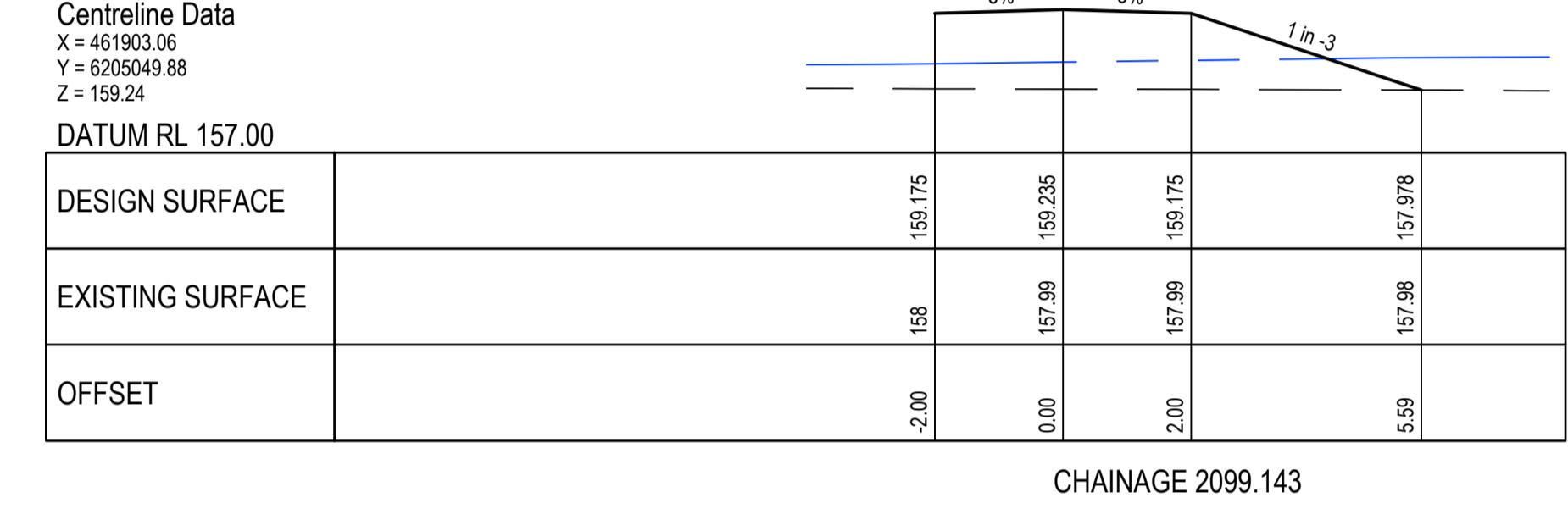
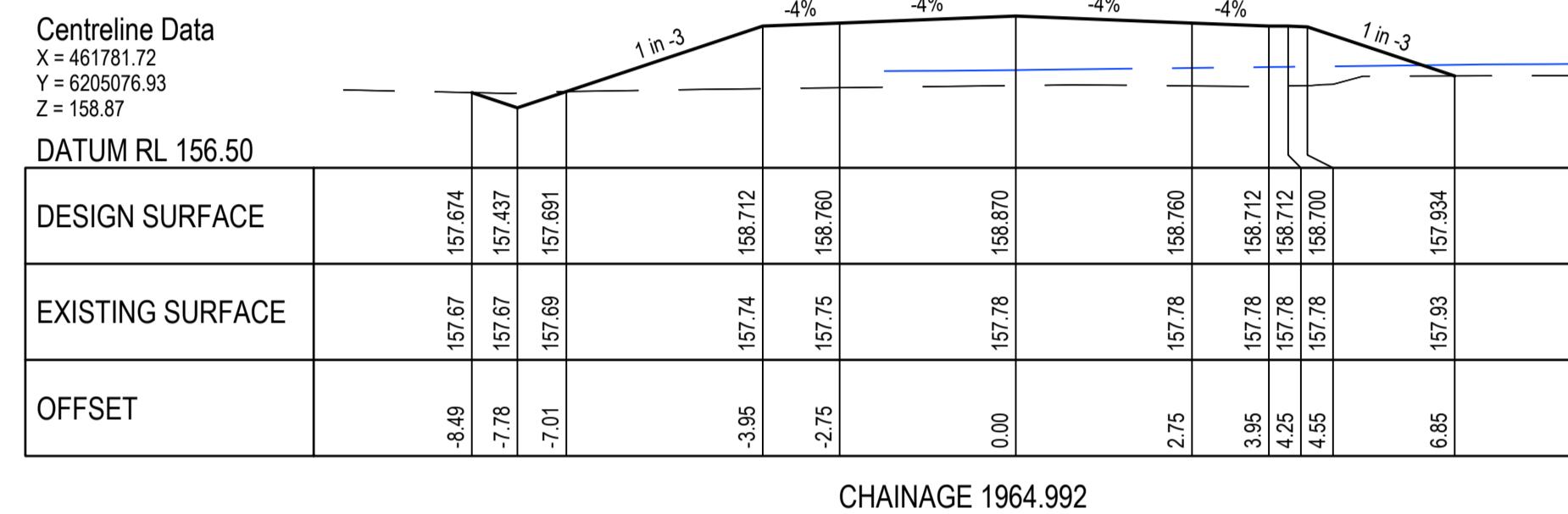
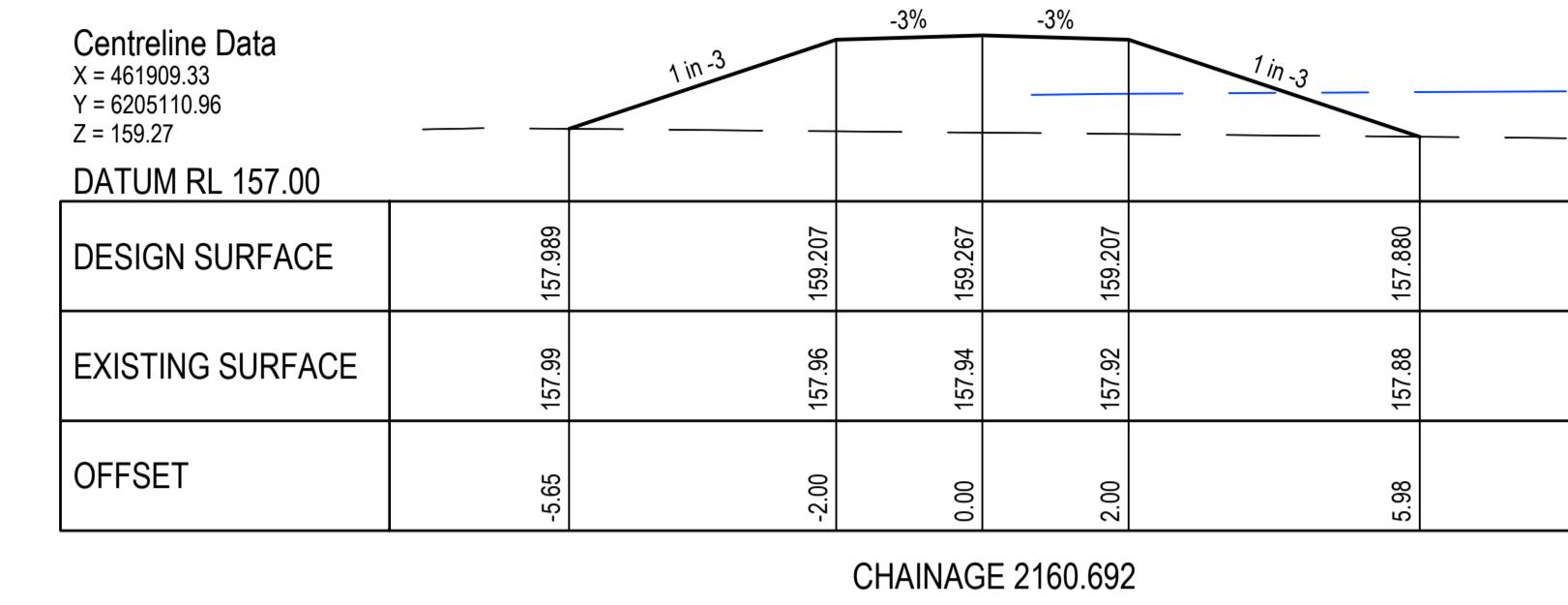
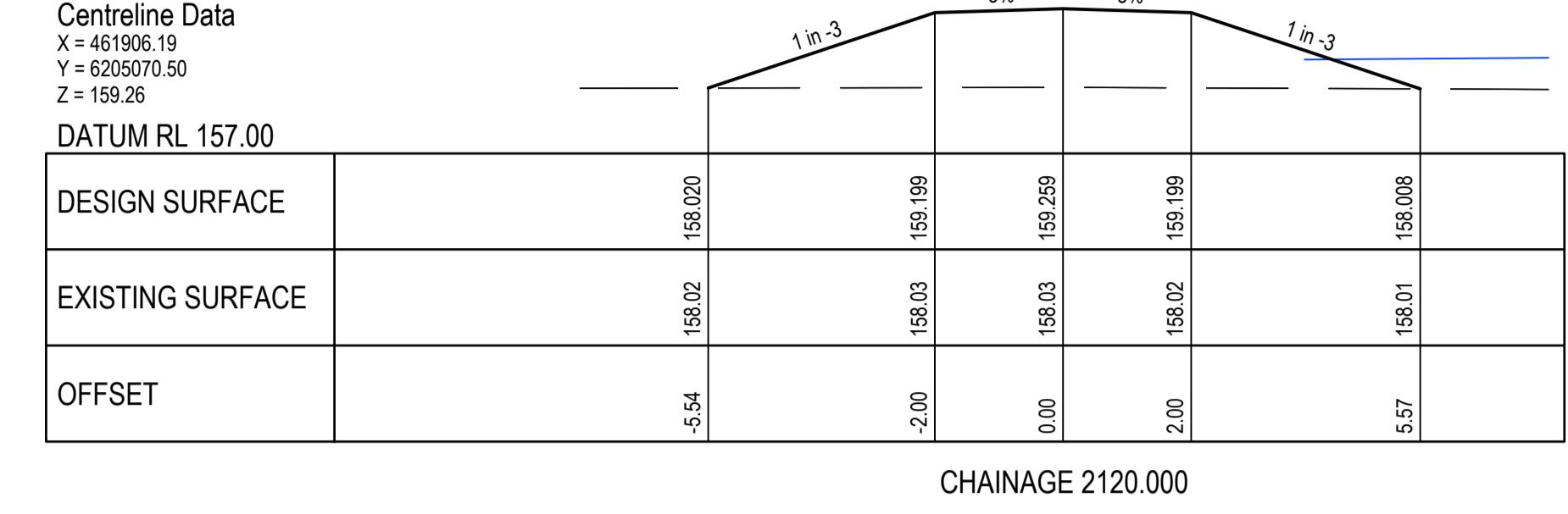
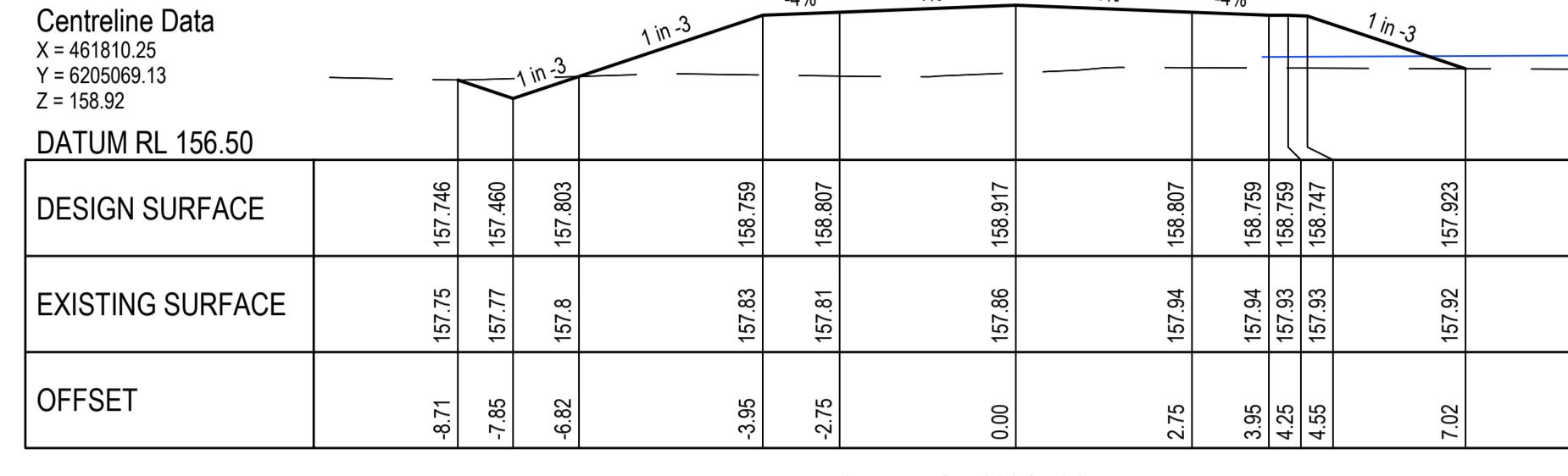
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LEGEND - CROSS AND LONG SECTIONS
 FINISHED SURFACE PROFILE
 EXISTING SURFACE PROFILE
 1% AEP FLOOD PROFILE

DATE PLOTTED: 12 March 2024 9:54 AM BY: AARONWARD



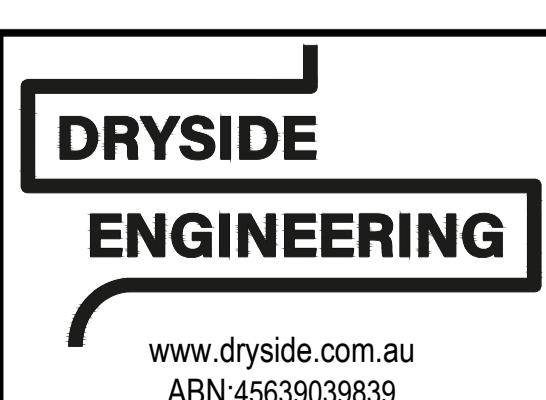
RS01 CROSS SECTIONS

SCALE H 1:100m V 1:100m



0 1 2 4m
SCALE 1:100 @A1

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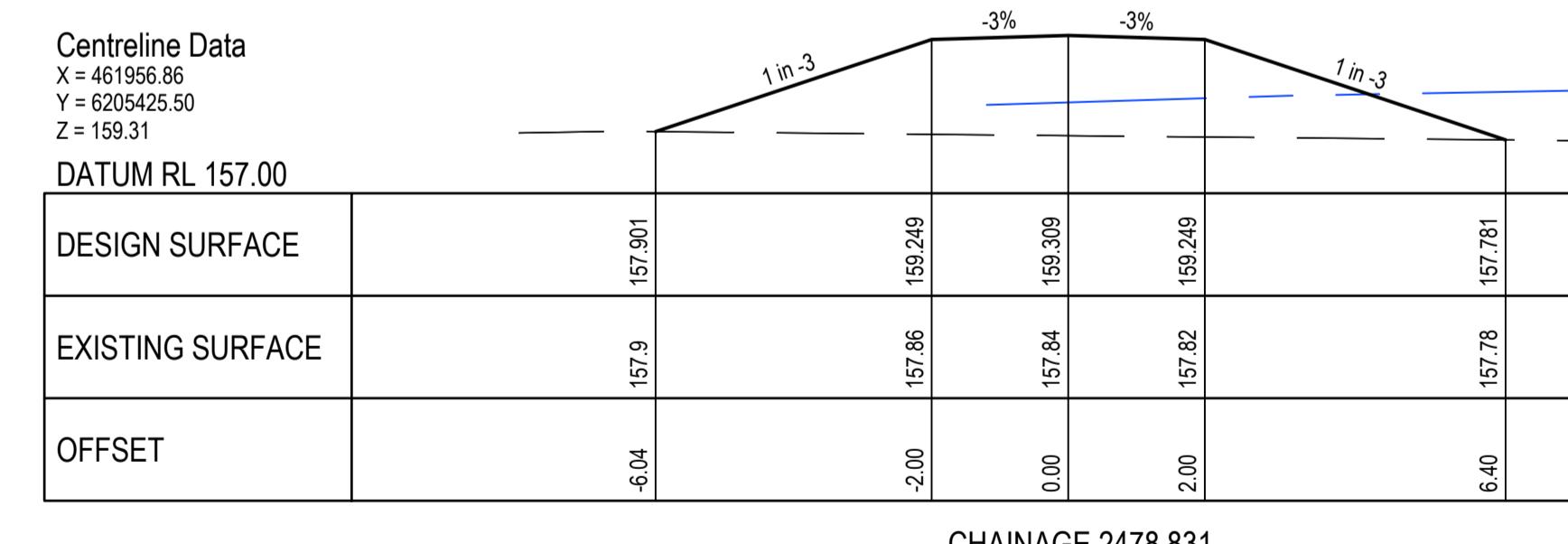
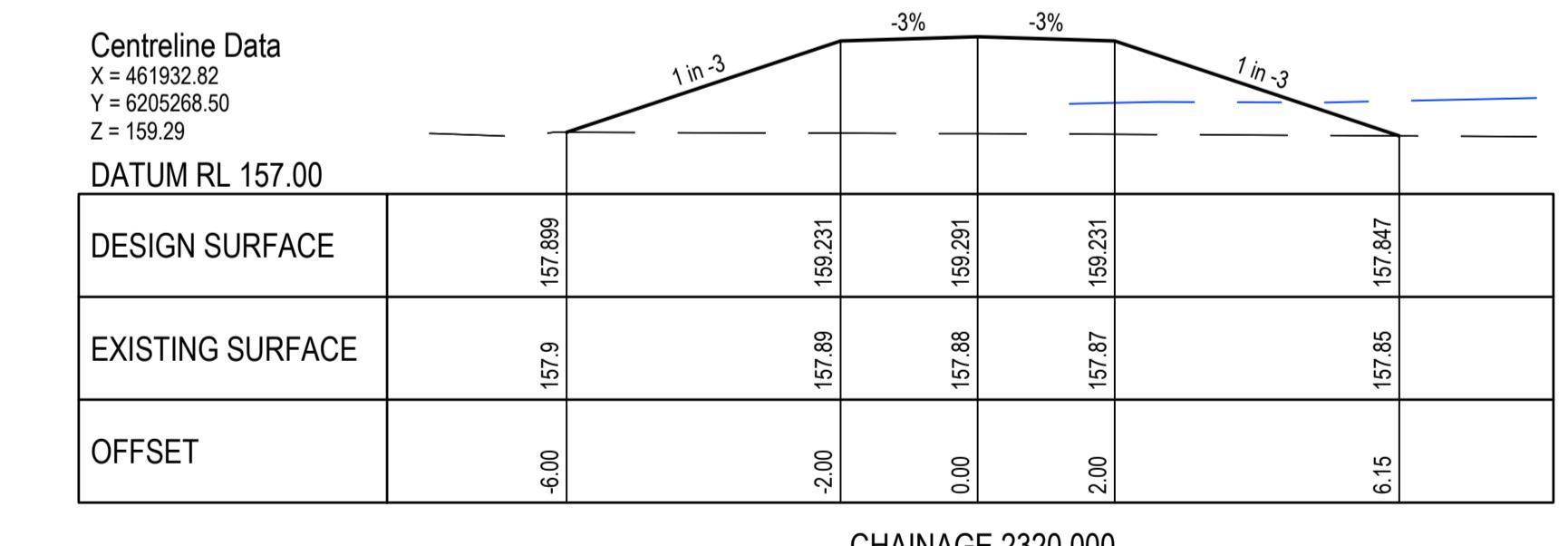
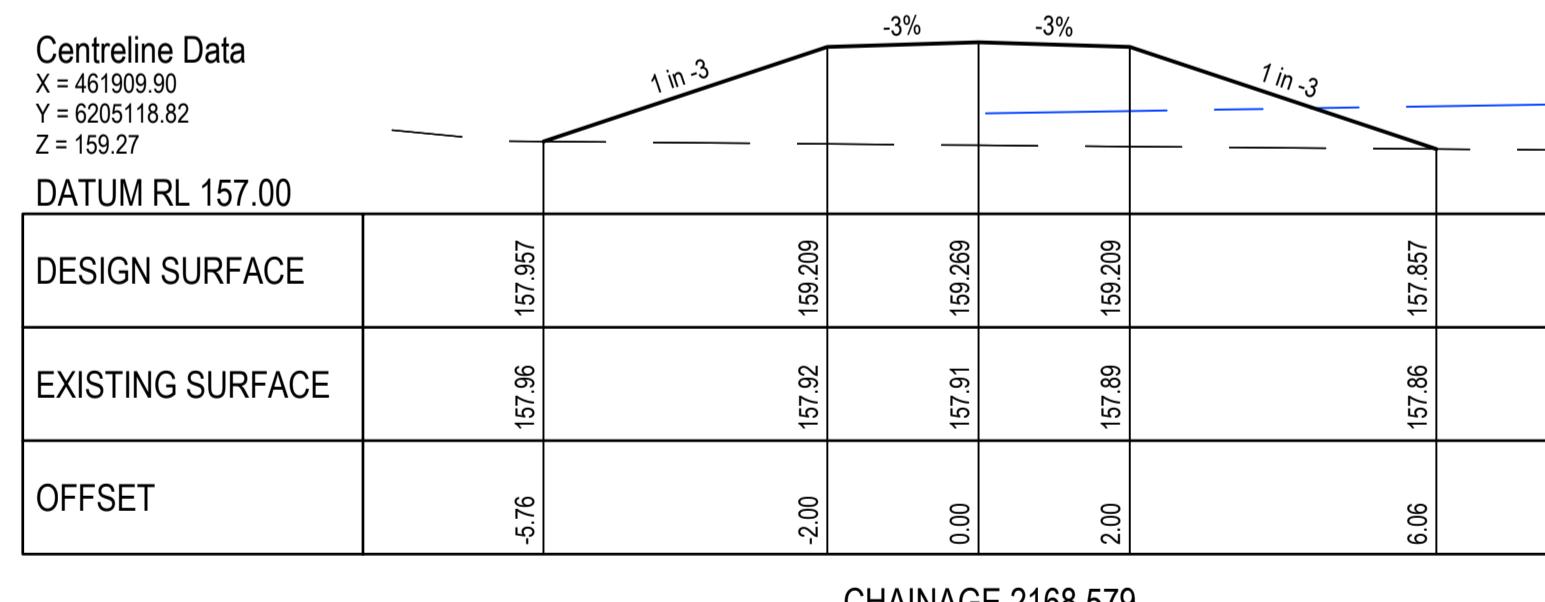
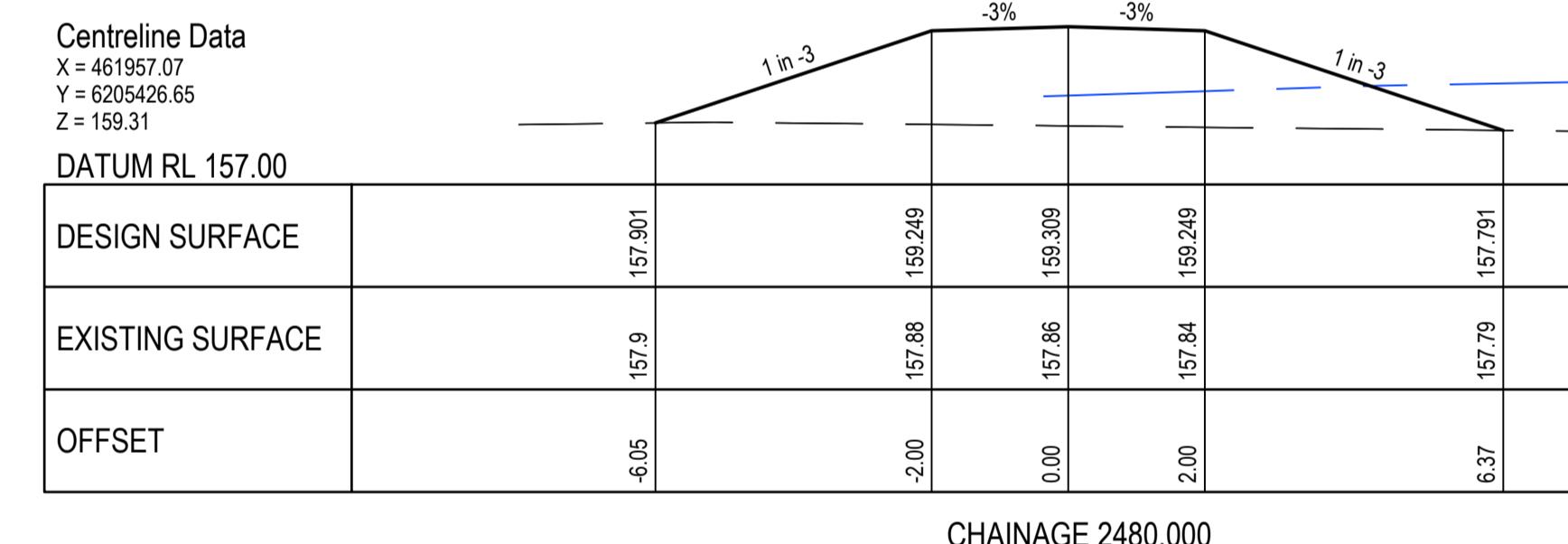
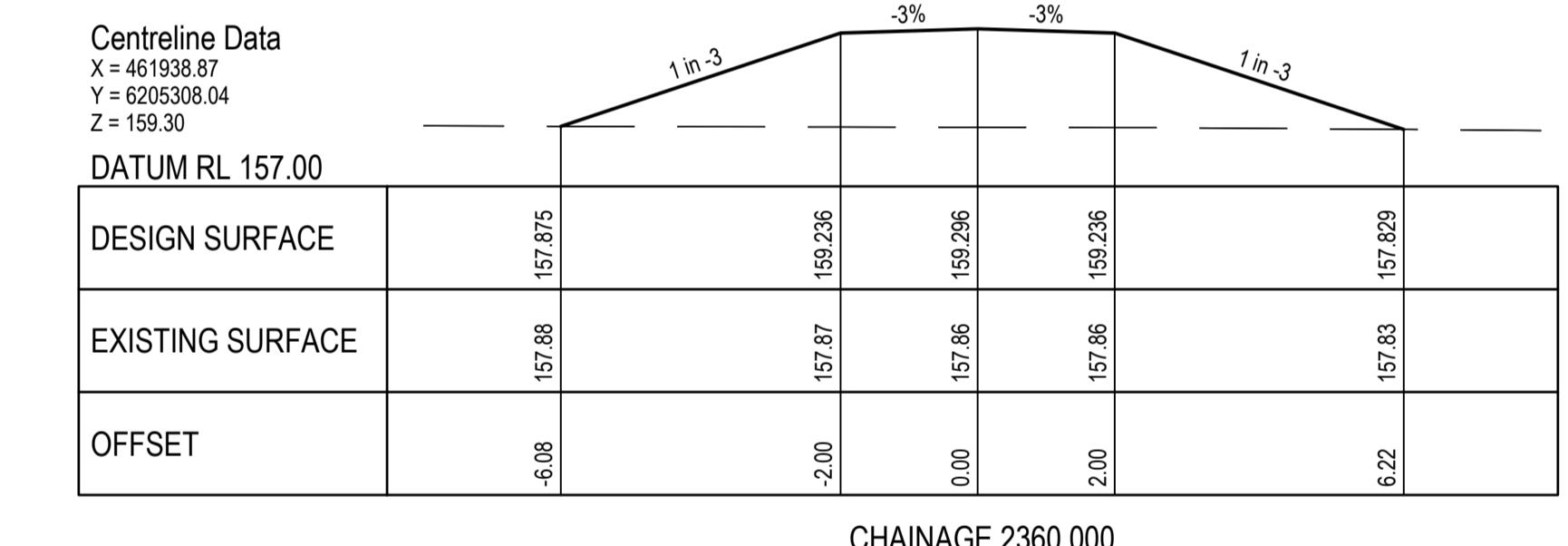
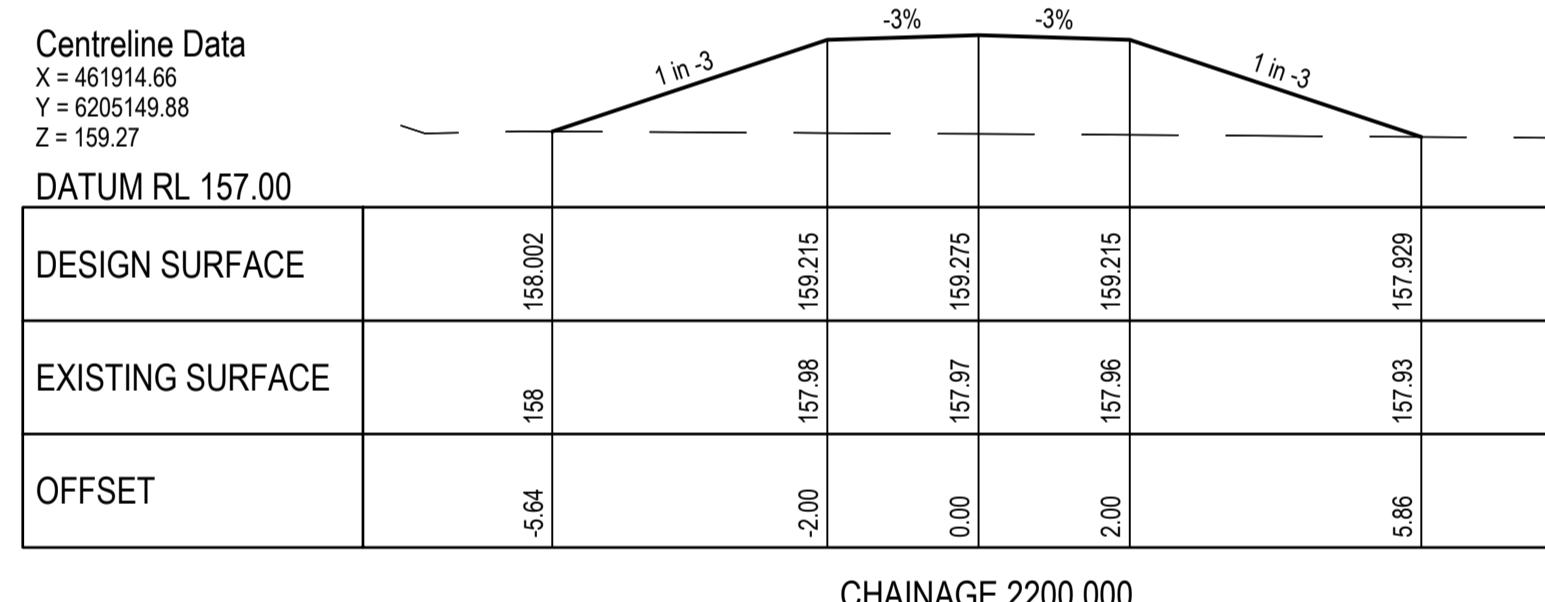
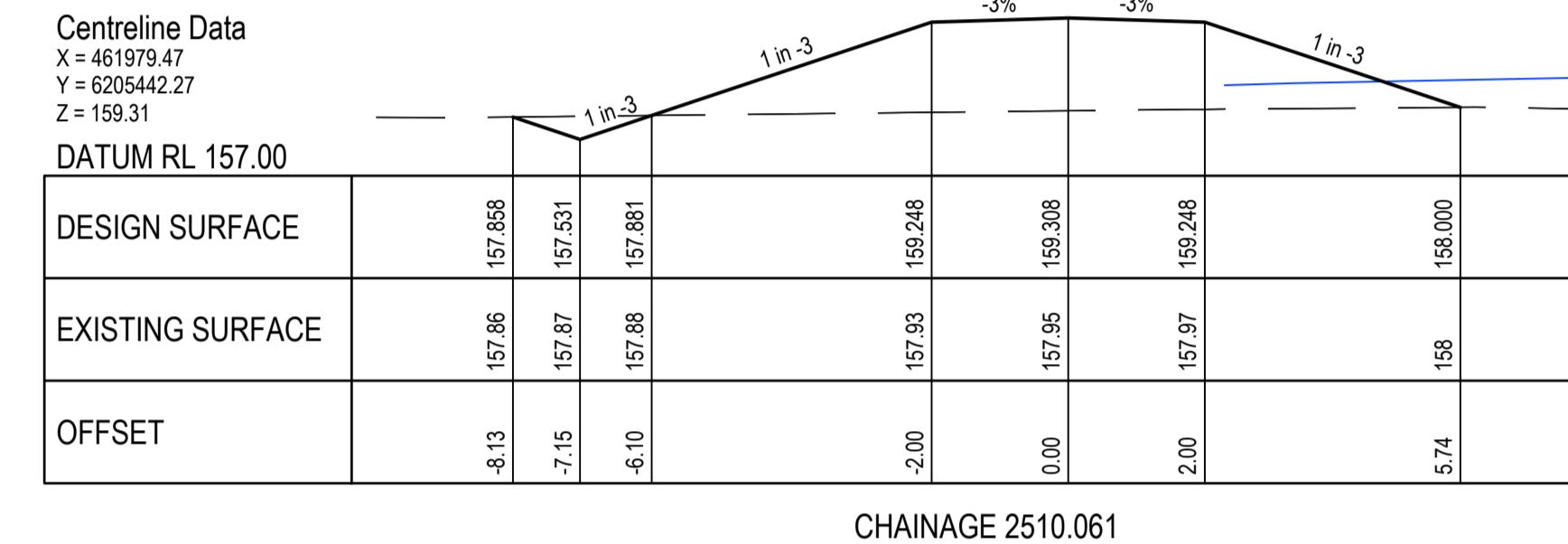
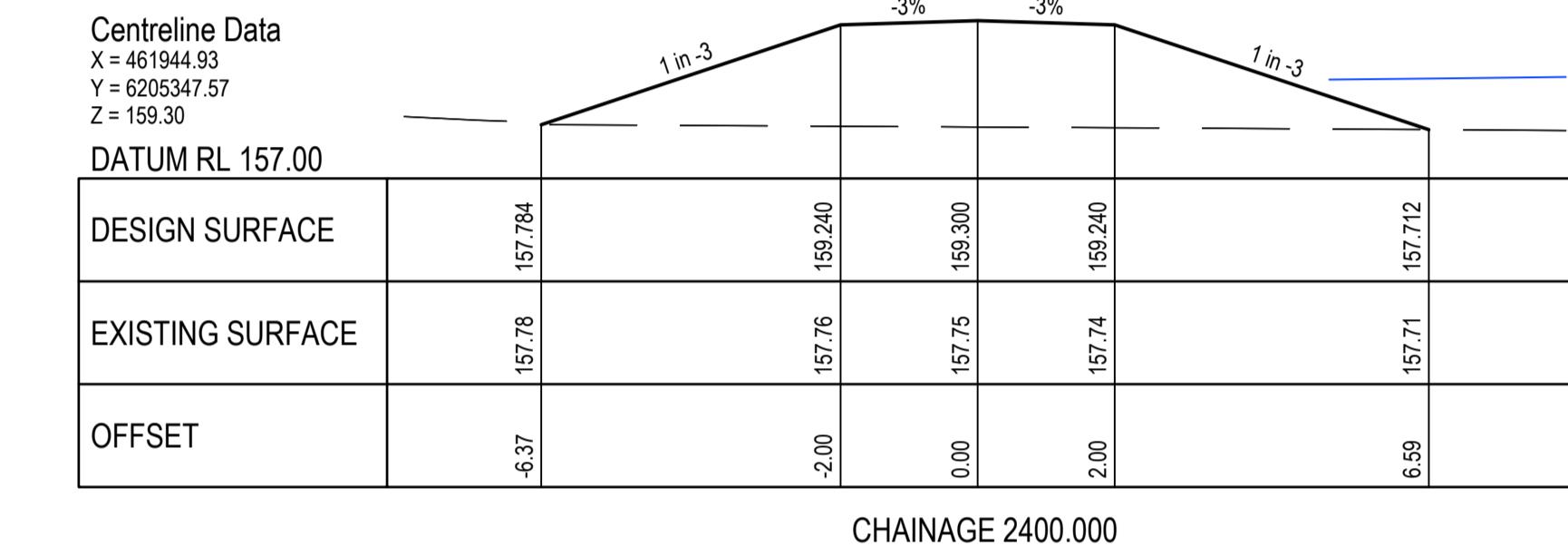
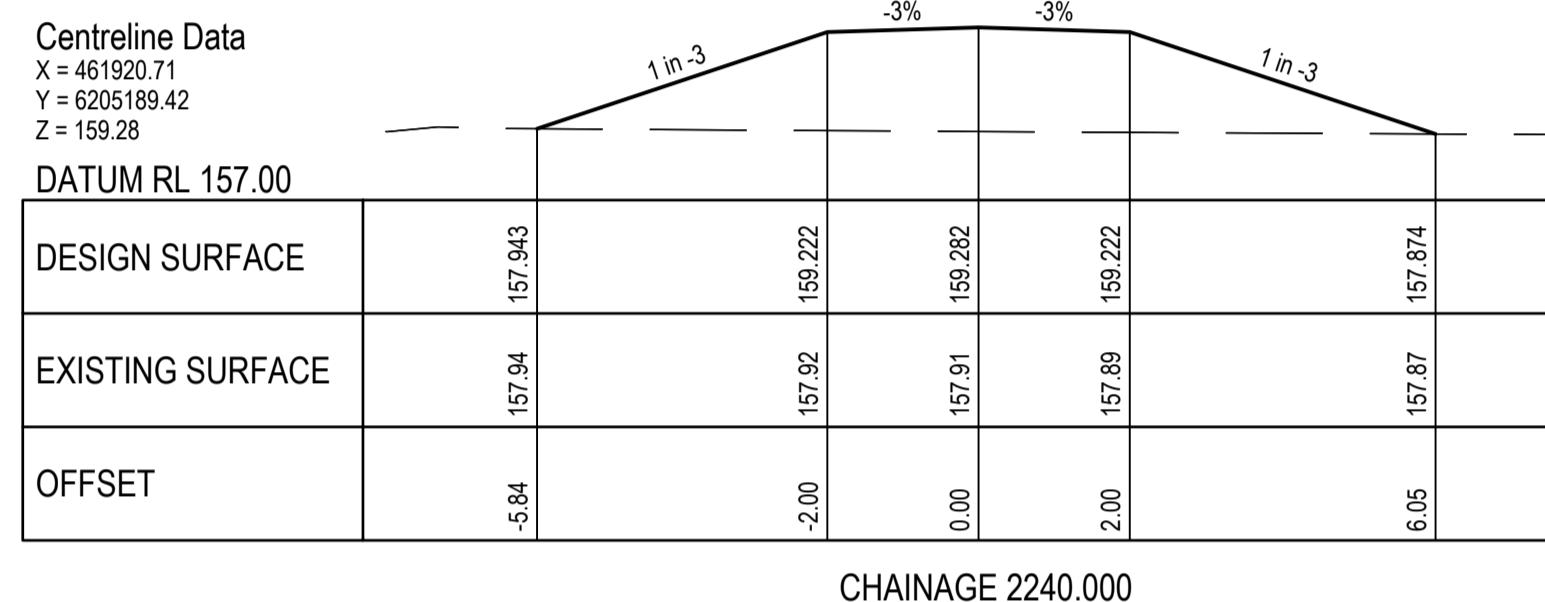
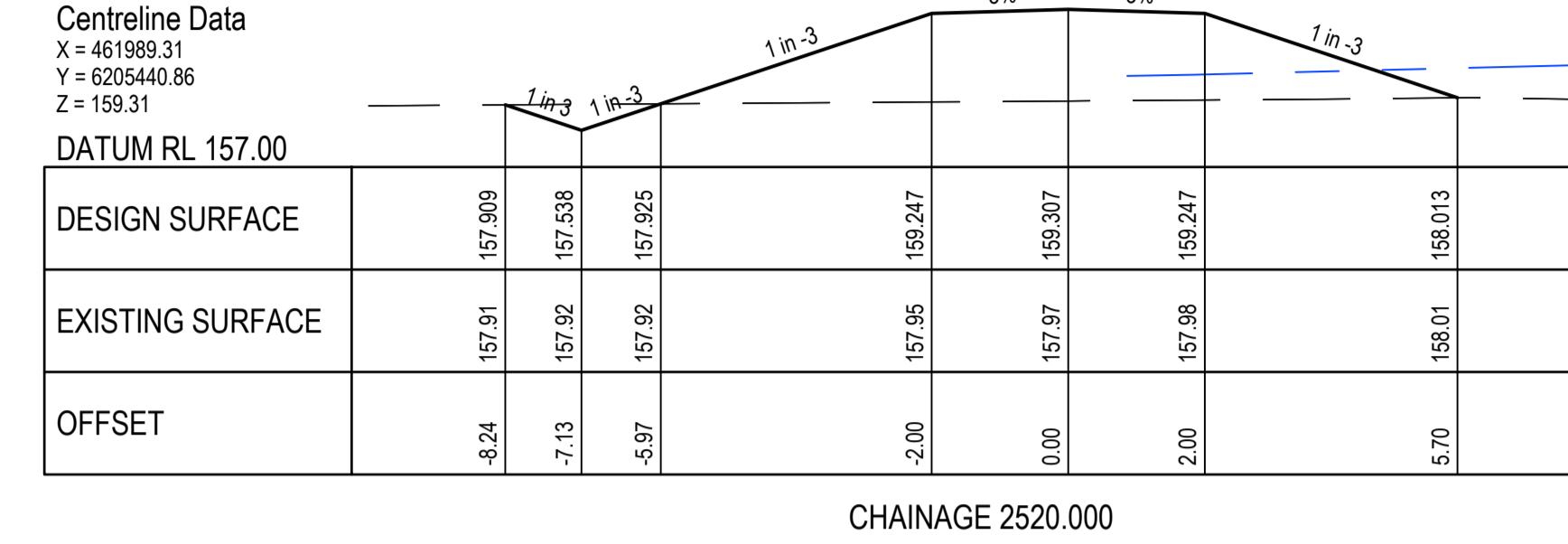
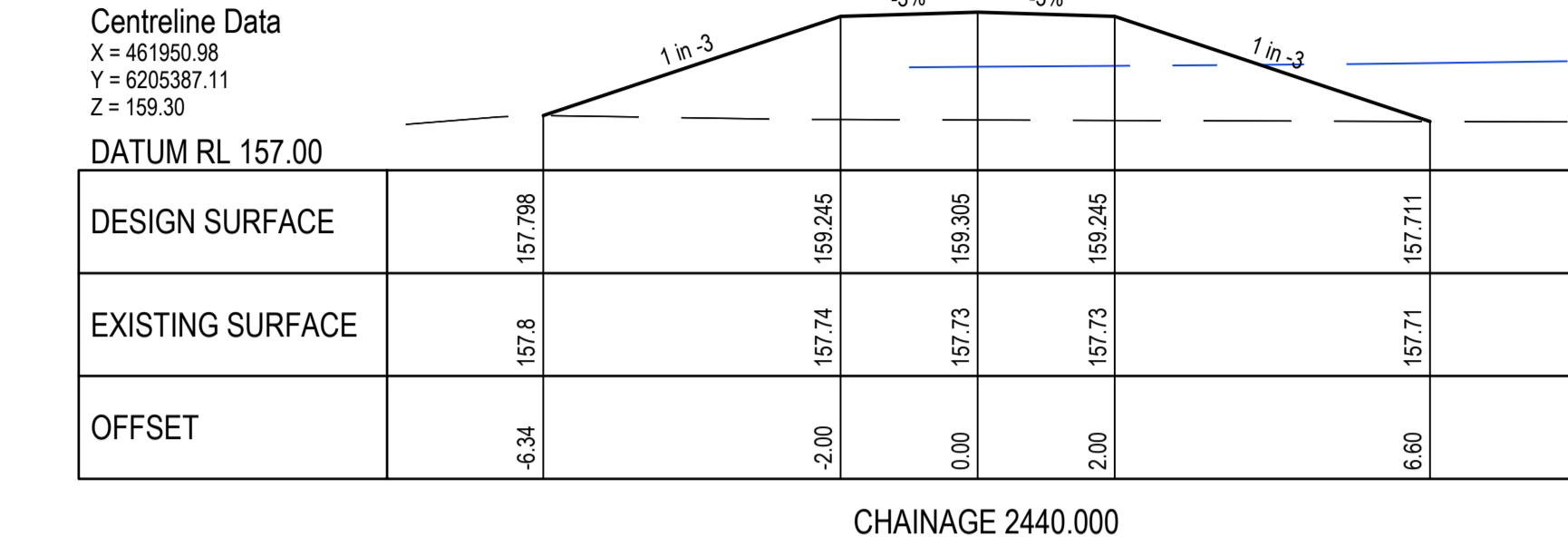
NARRANDERA SHIRE COUNCIL
 BARELLAN LEVEE DESIGN
 KURRAJONG ST AND BARELLAN CEMETERY RD
 BARELLAN, NSW 2665
 DETAILED DESIGN
 LEVEE CROSS SECTIONS
 SHEET 6 OF 10

FOR CONSTRUCTION
 DRAWN A.WARD DATE 30/05/2023 SCALE AS SHOWN DATUM MAHD
 DESIGNED A.WARD DATE 25/05/2023 PROJECTION GD94 SHEET SIZE A1
 DSE23011-1205 A

A	12/03/2024	CONSTRUCTION ISSUE	DESCRIPTION	AW	EH	EH	DES	VER	APP
REV									

LEGEND - CROSS AND LONG SECTIONS		
	FINISHED SURFACE PROFILE	
—	EXISTING SURFACE PROFILE	
—	1% AEP FLOOD PROFILE	

DATE PLOTTED: 12 March 2024 10:00 AM BY: AARONWARD



RS01 CROSS SECTIONS

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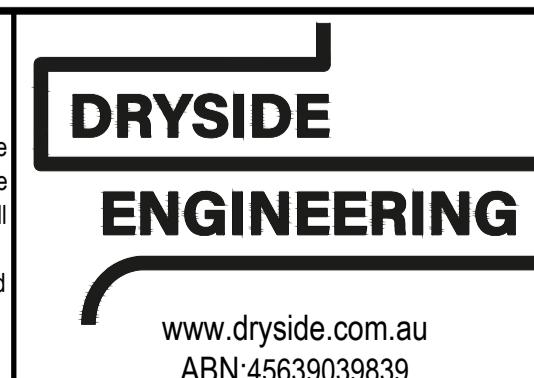
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REV							



0 1 2 4m
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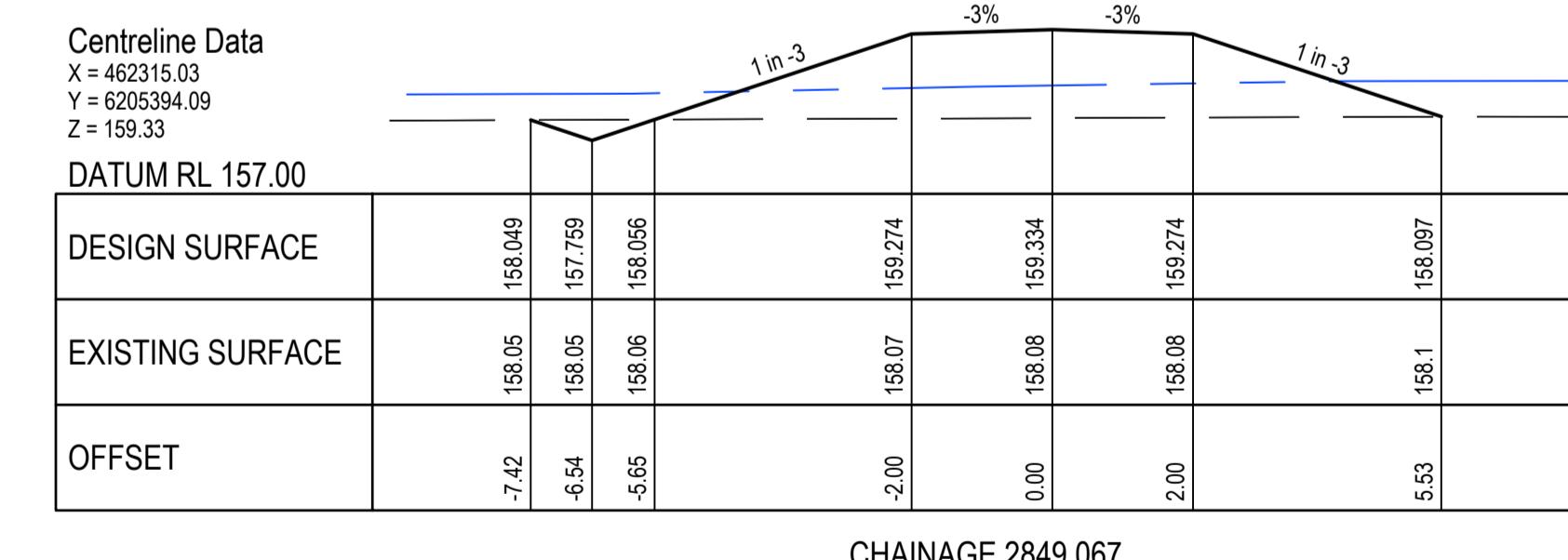
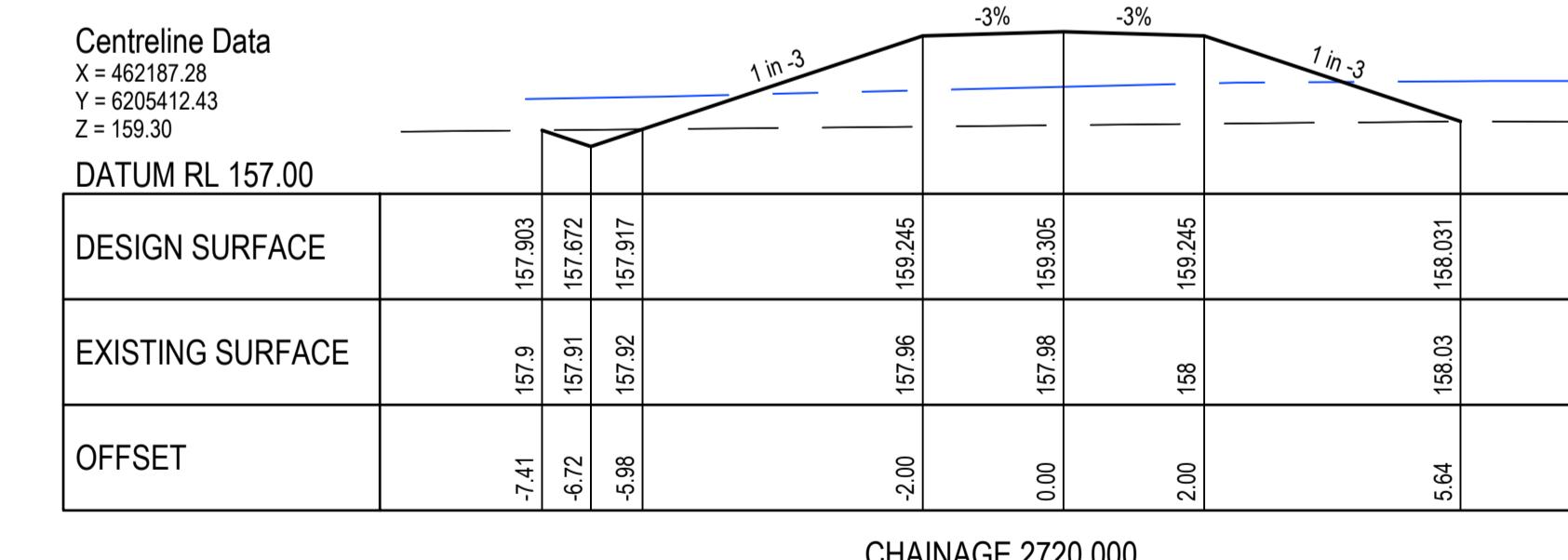
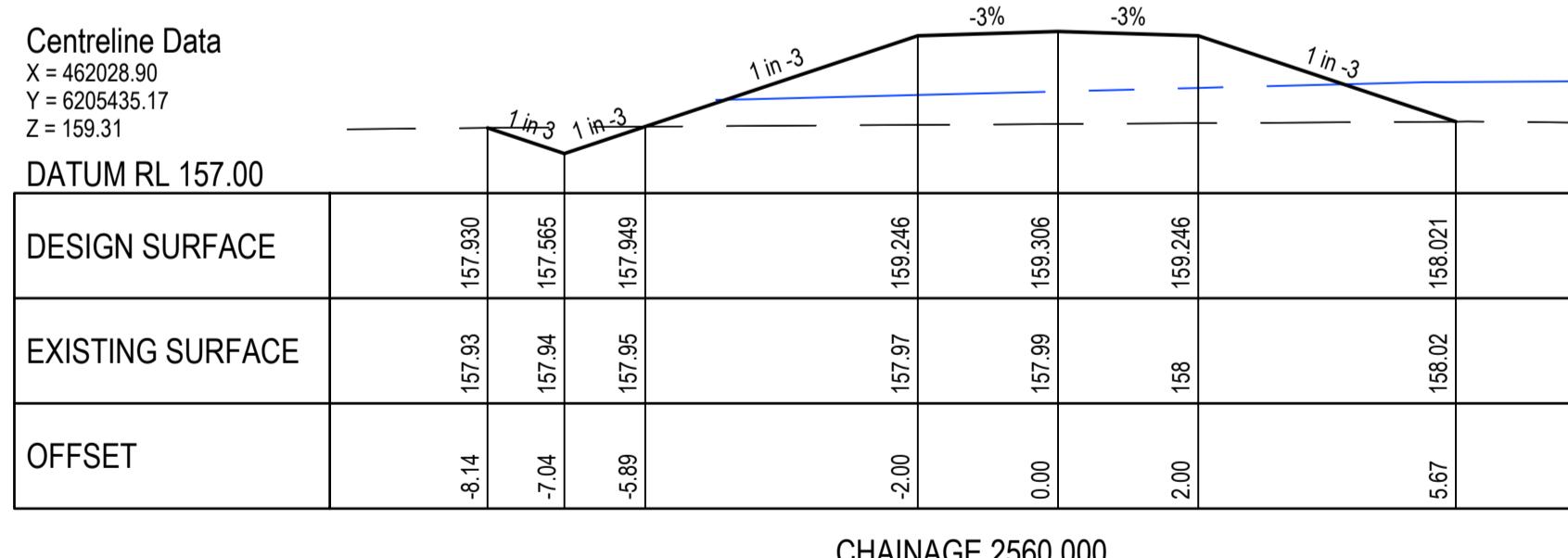
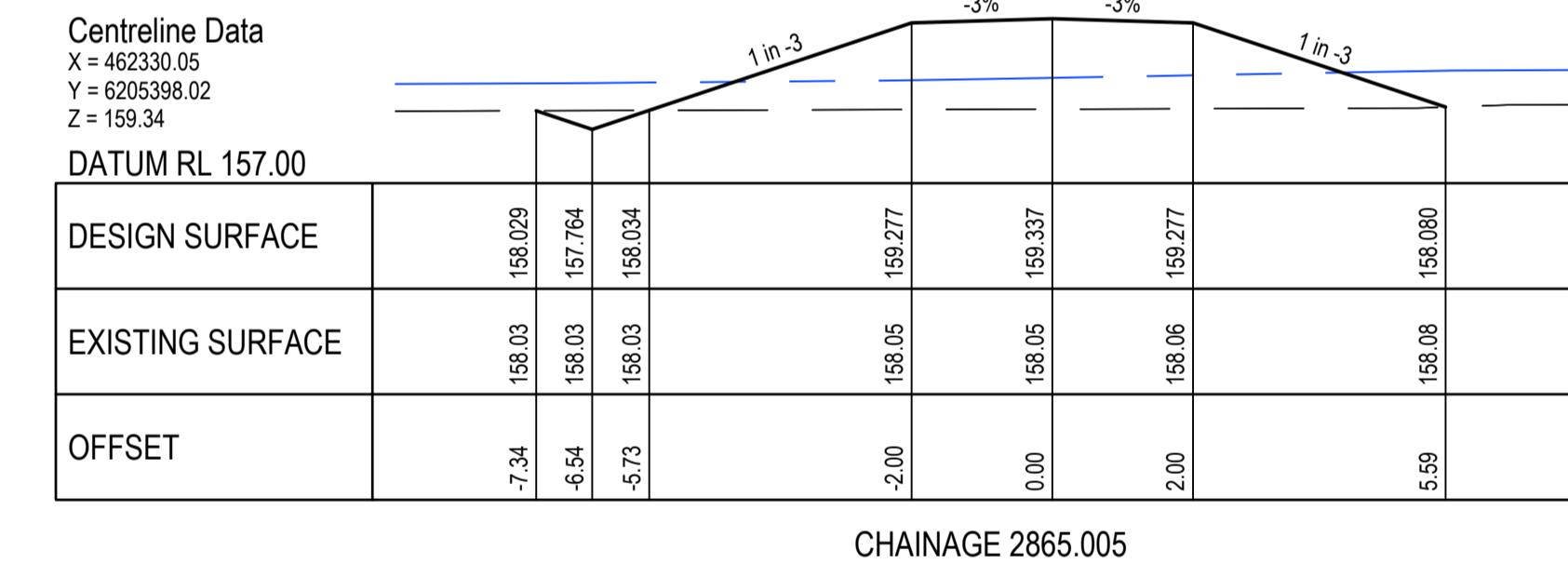
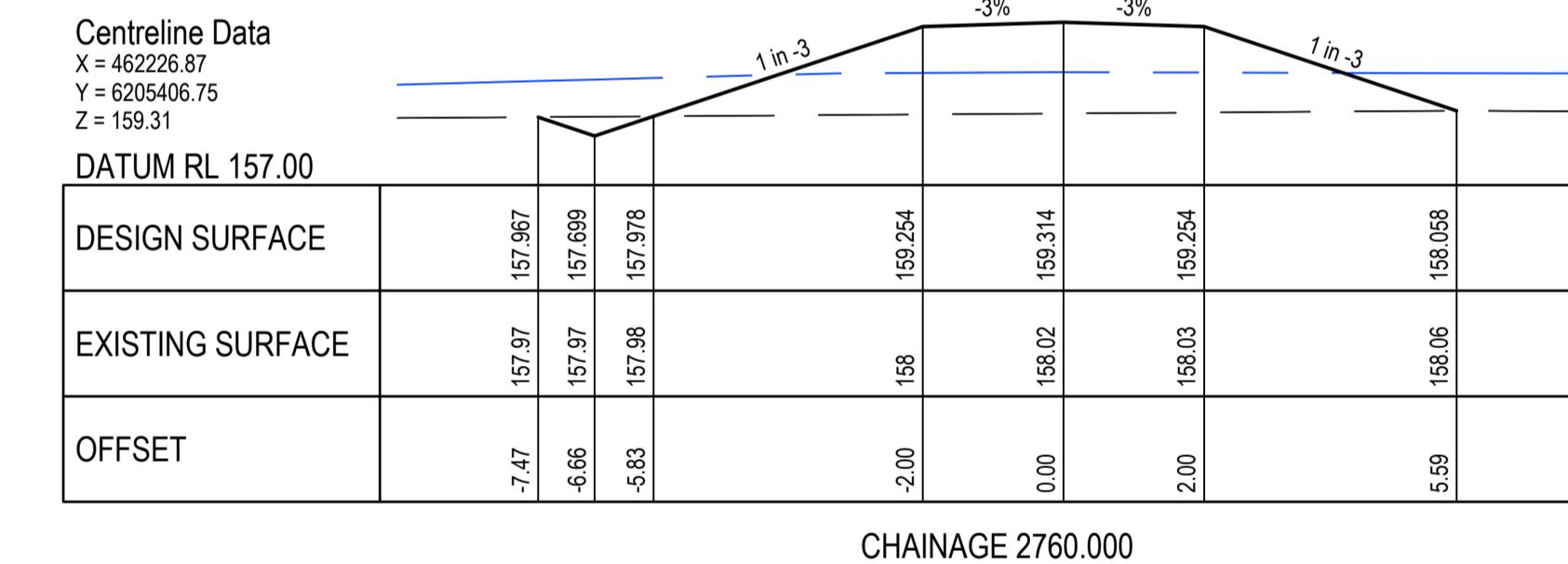
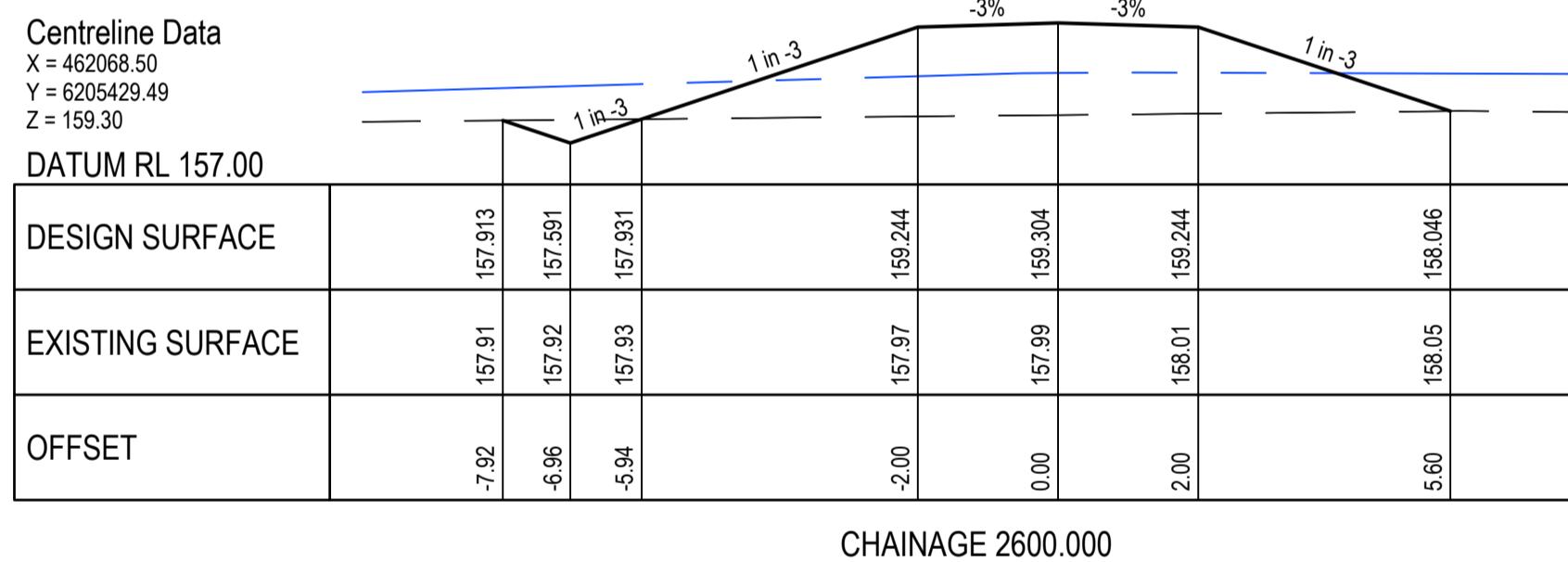
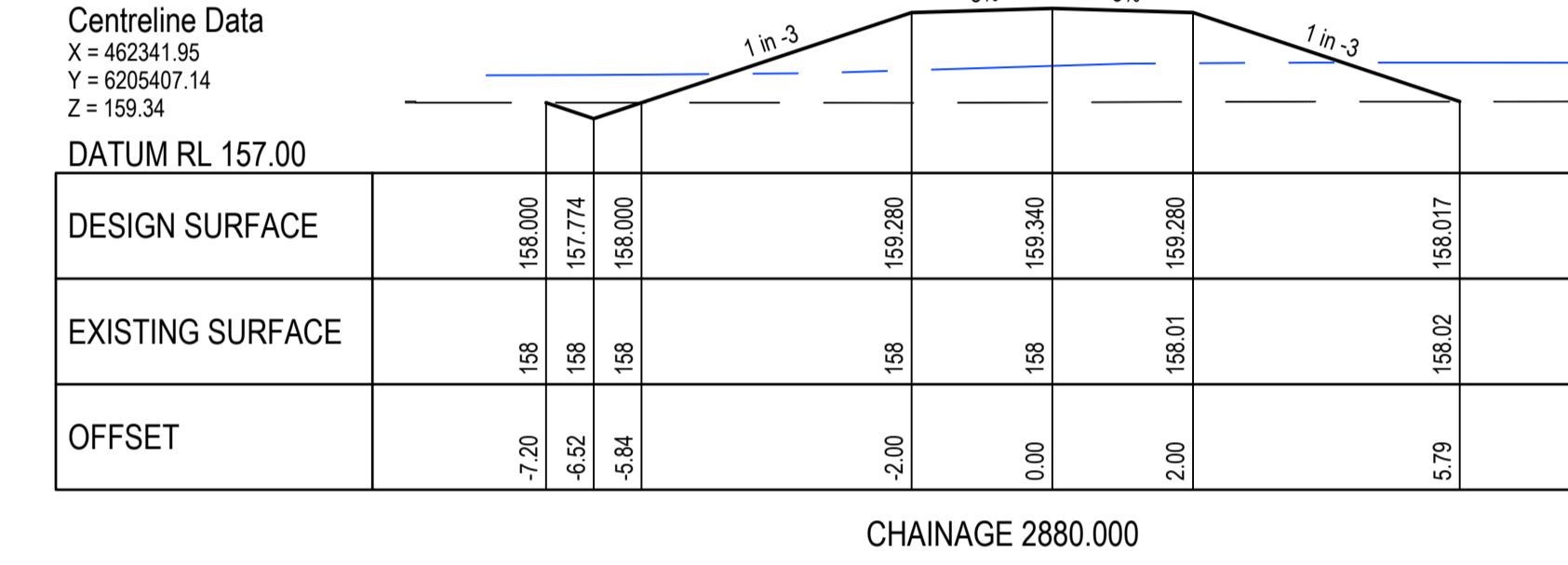
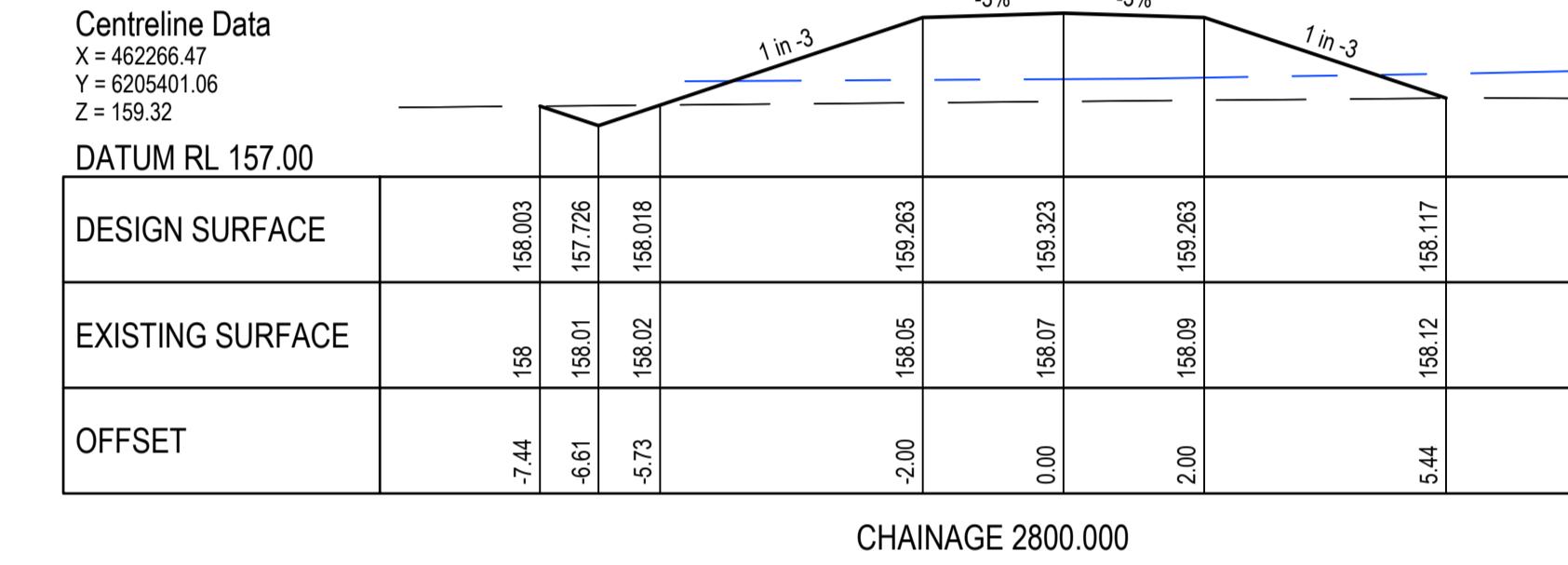
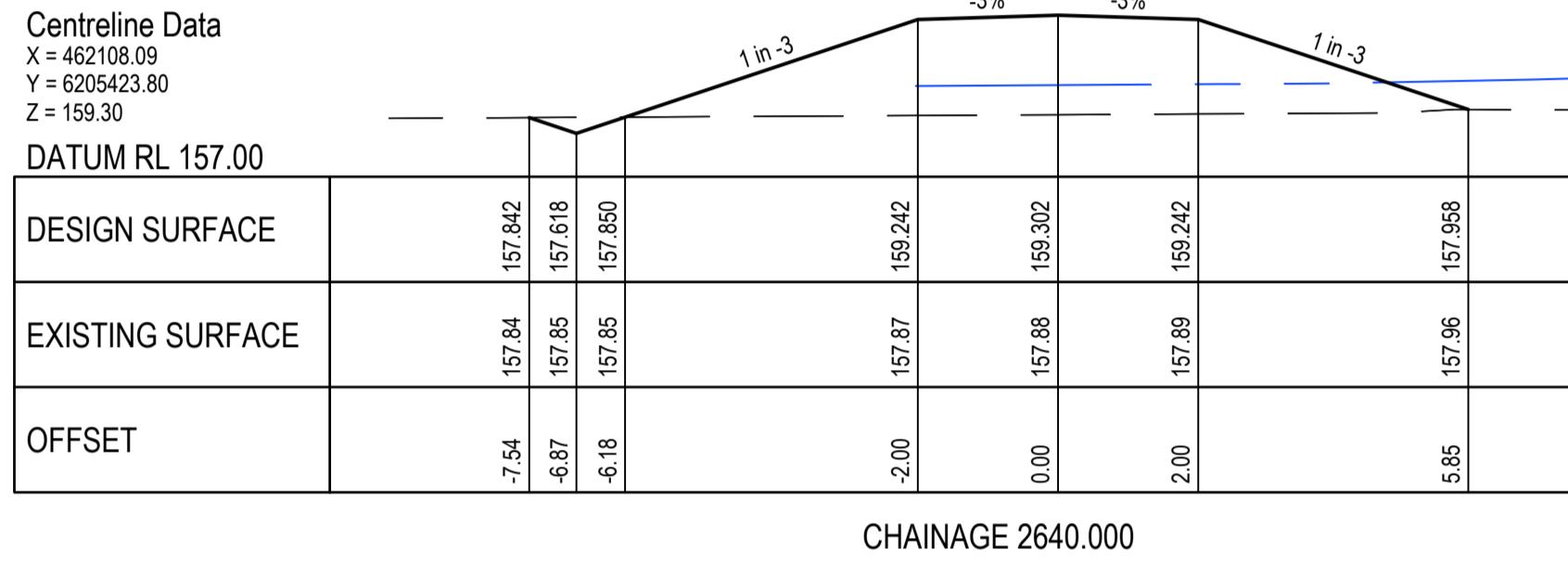
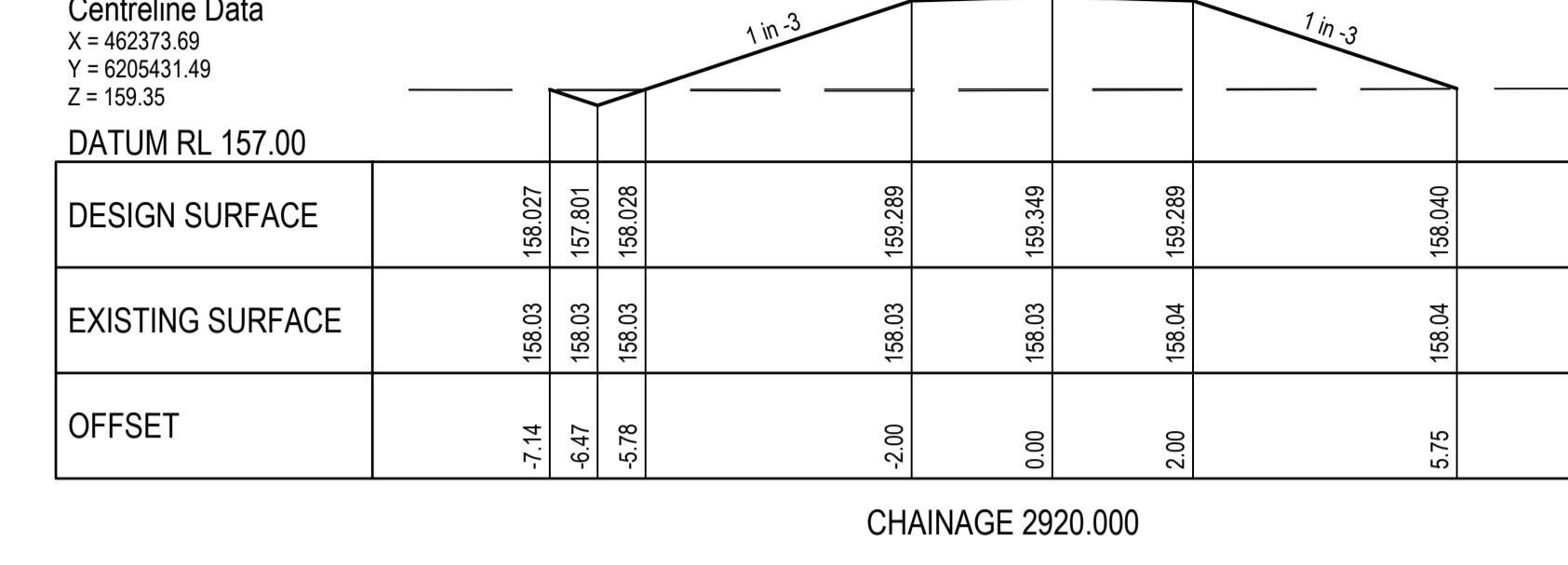
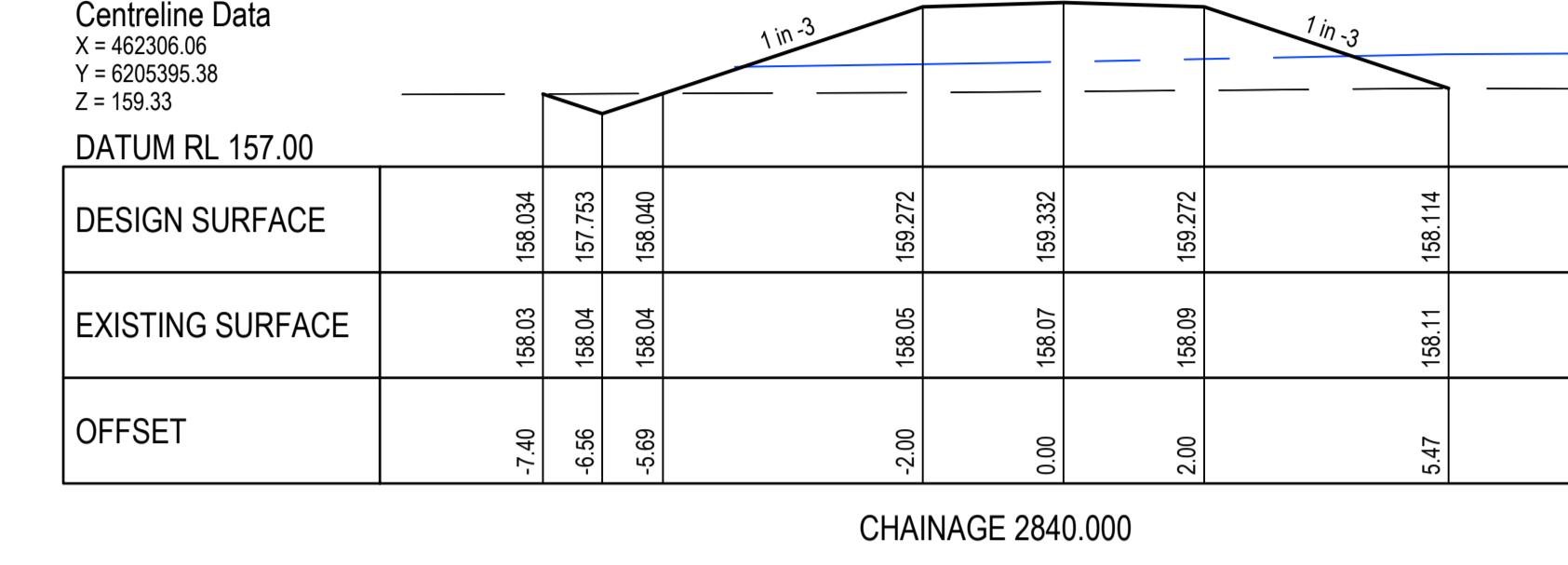
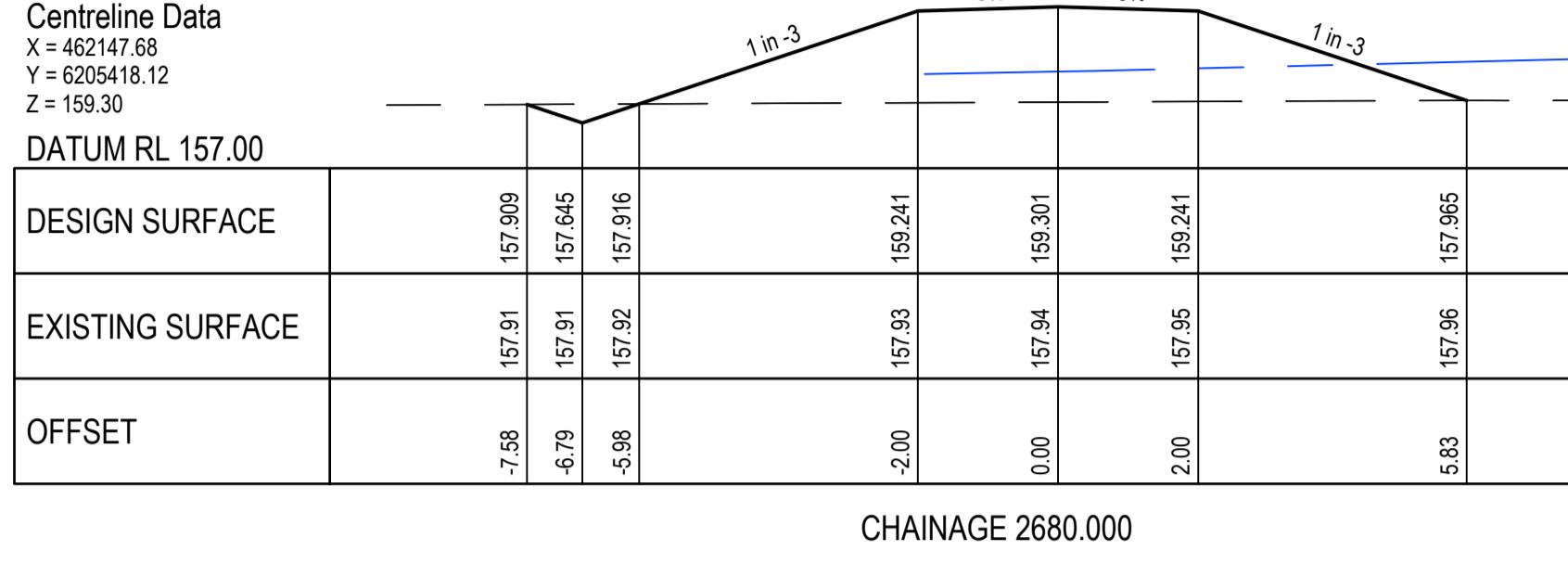
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DETAILED DESIGN
LEVEE CROSS SECTIONS
SHEET 7 OF 10

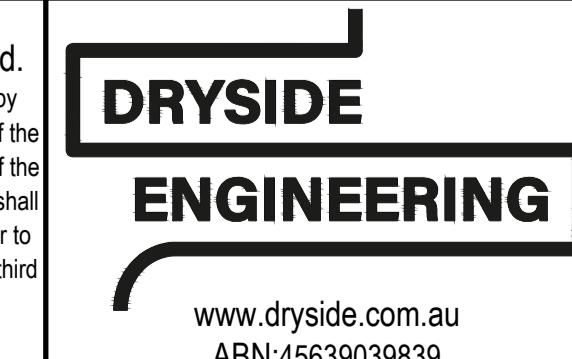
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DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1206			A



RS01 CROSS SECTIONS
 SCALE H 1:100m V 1:100m

0 1 2 4m
 SCALE 1:100 @A1

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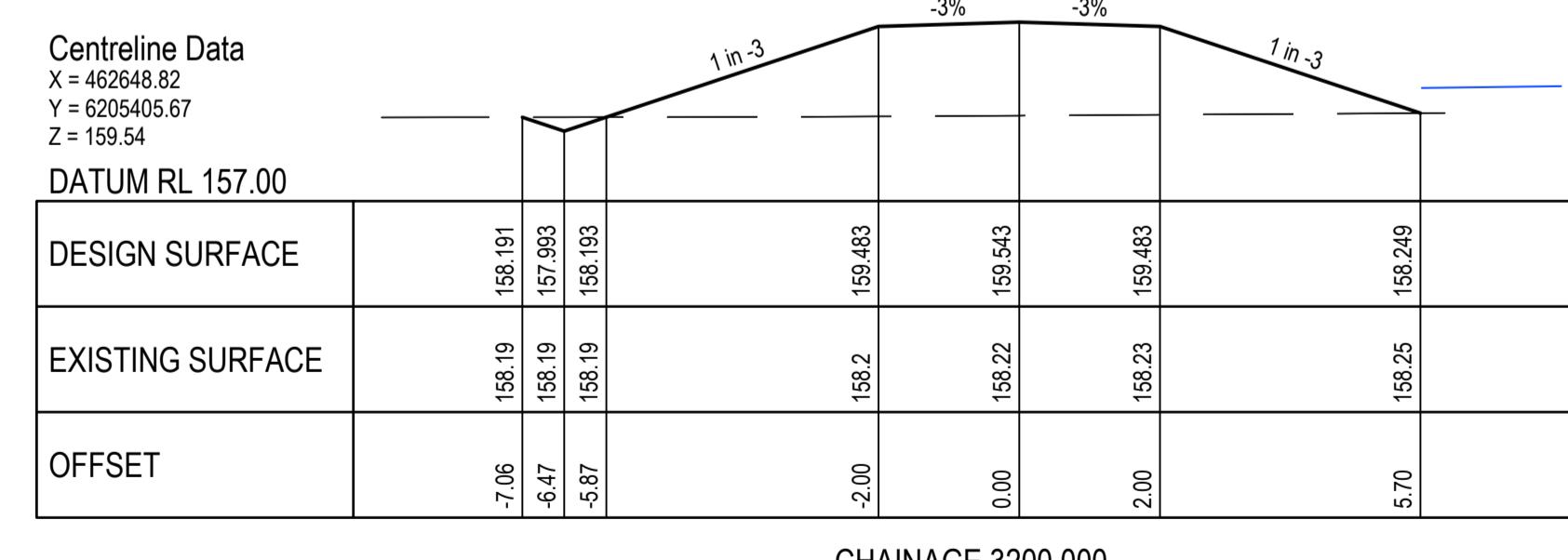
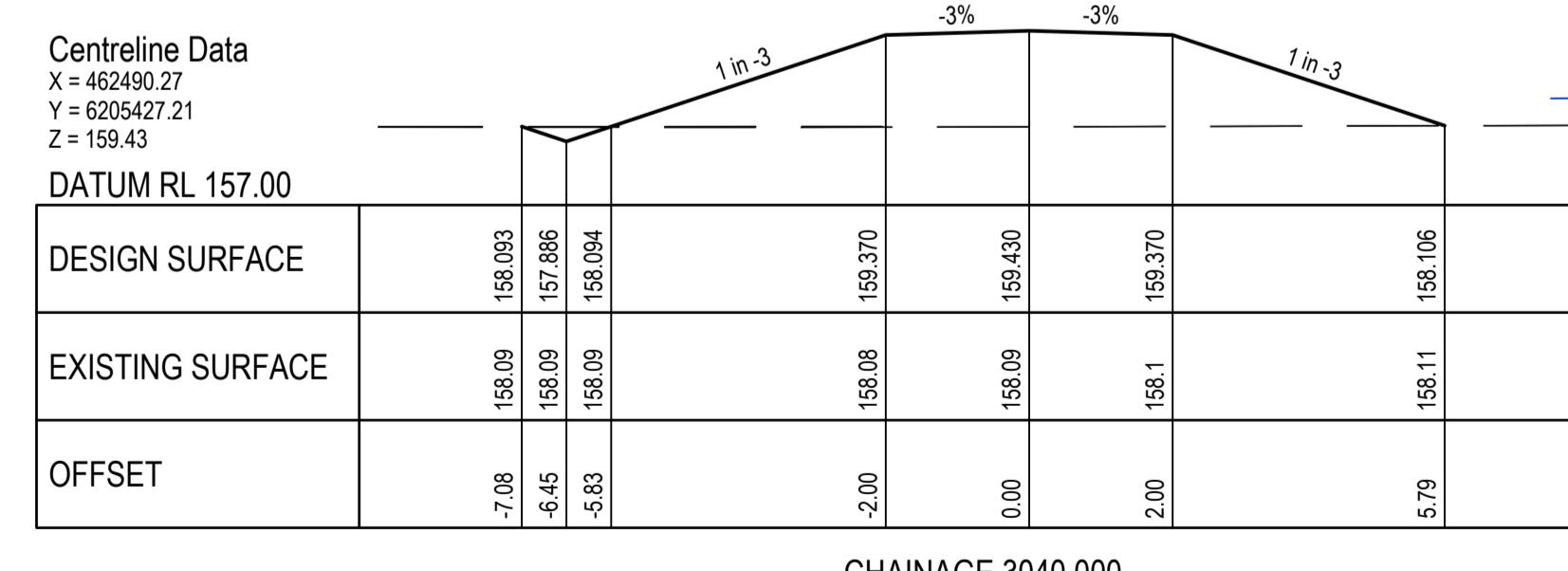
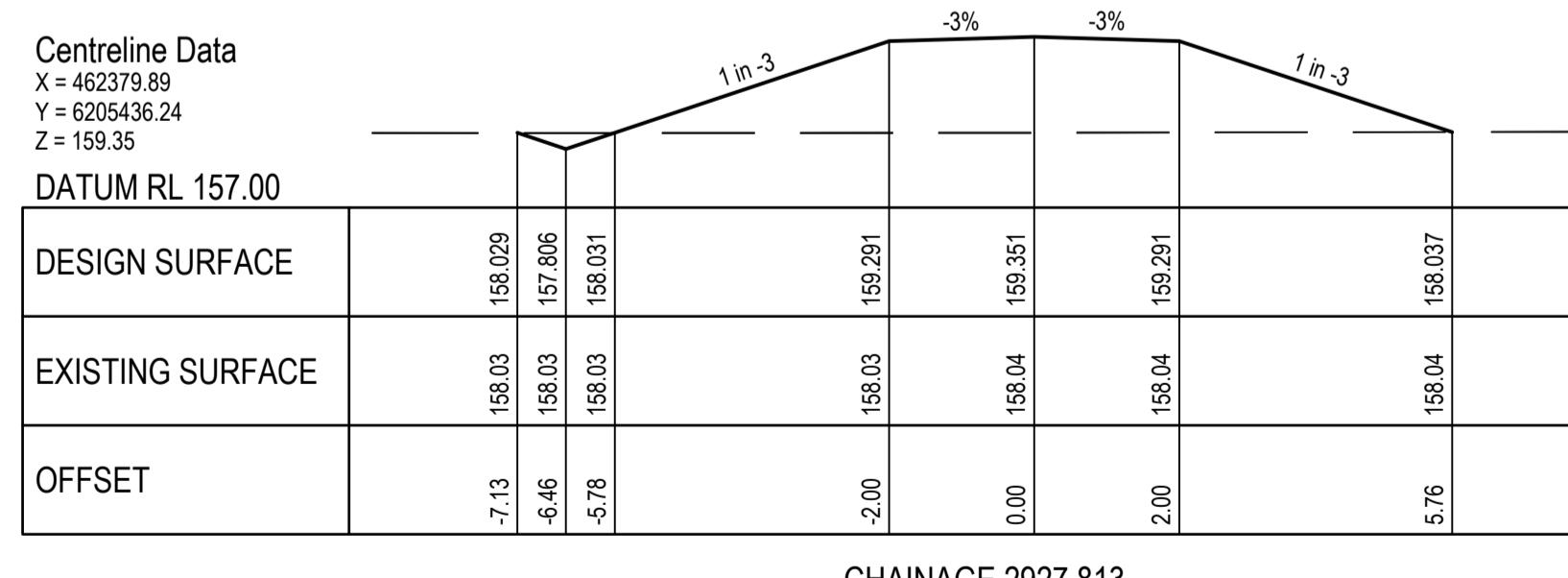
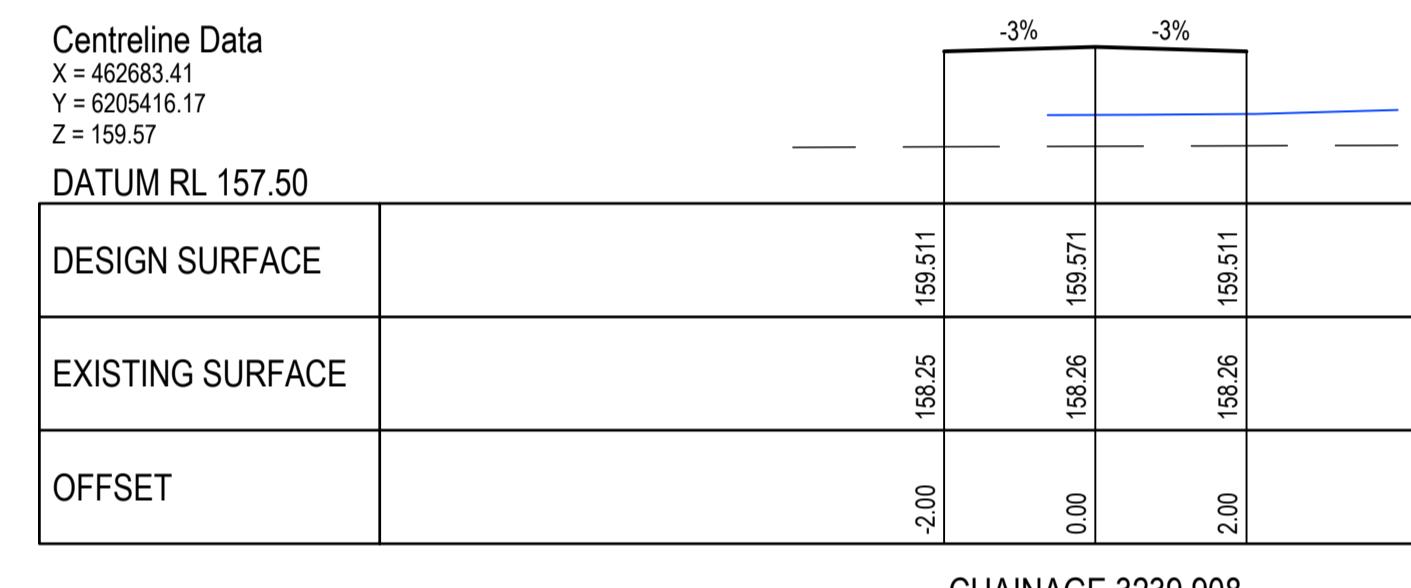
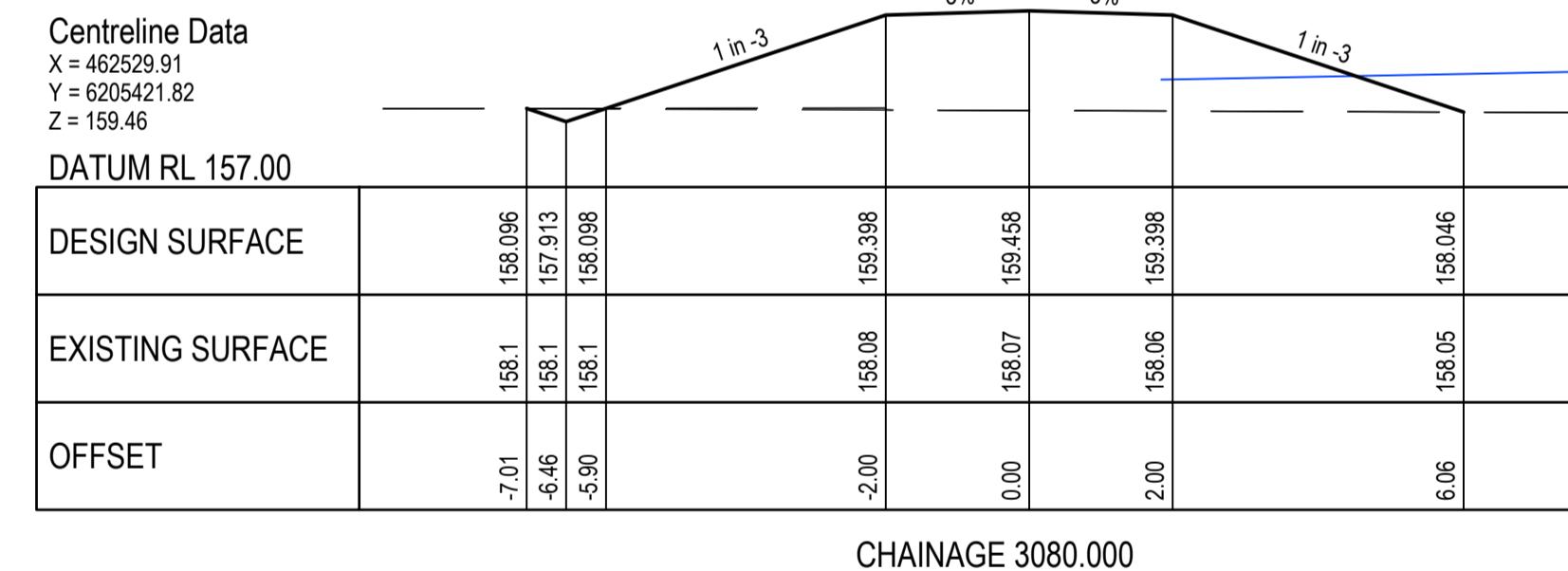
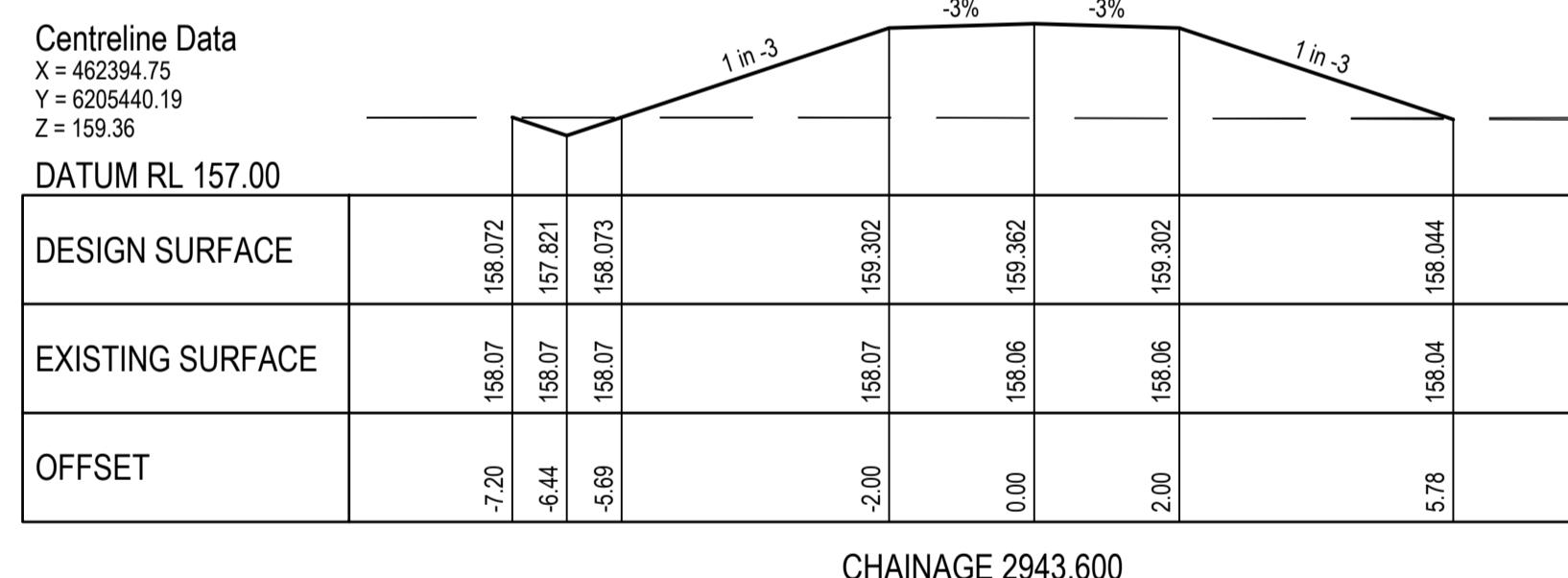
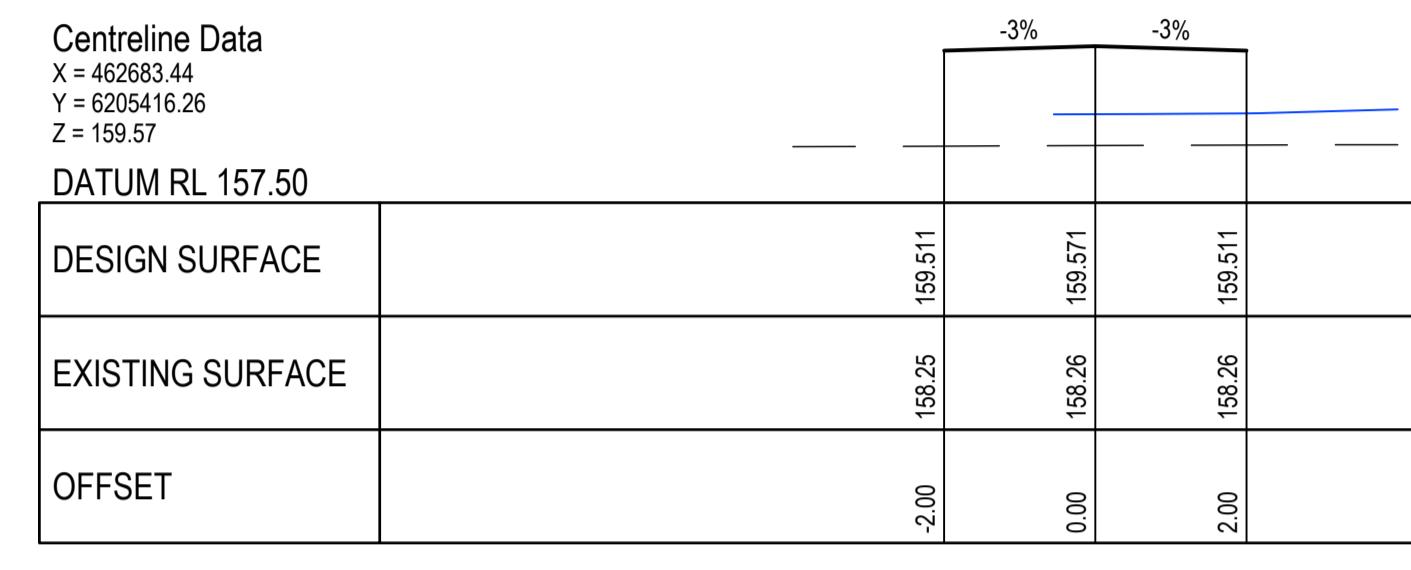
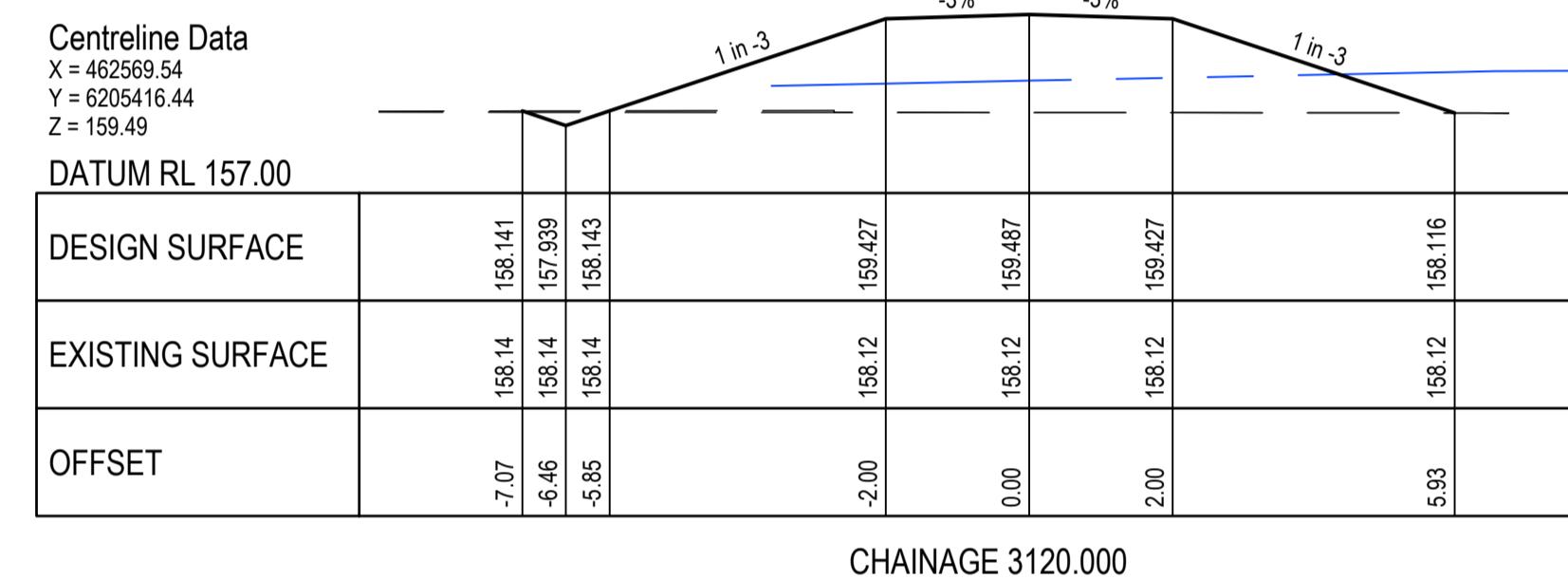
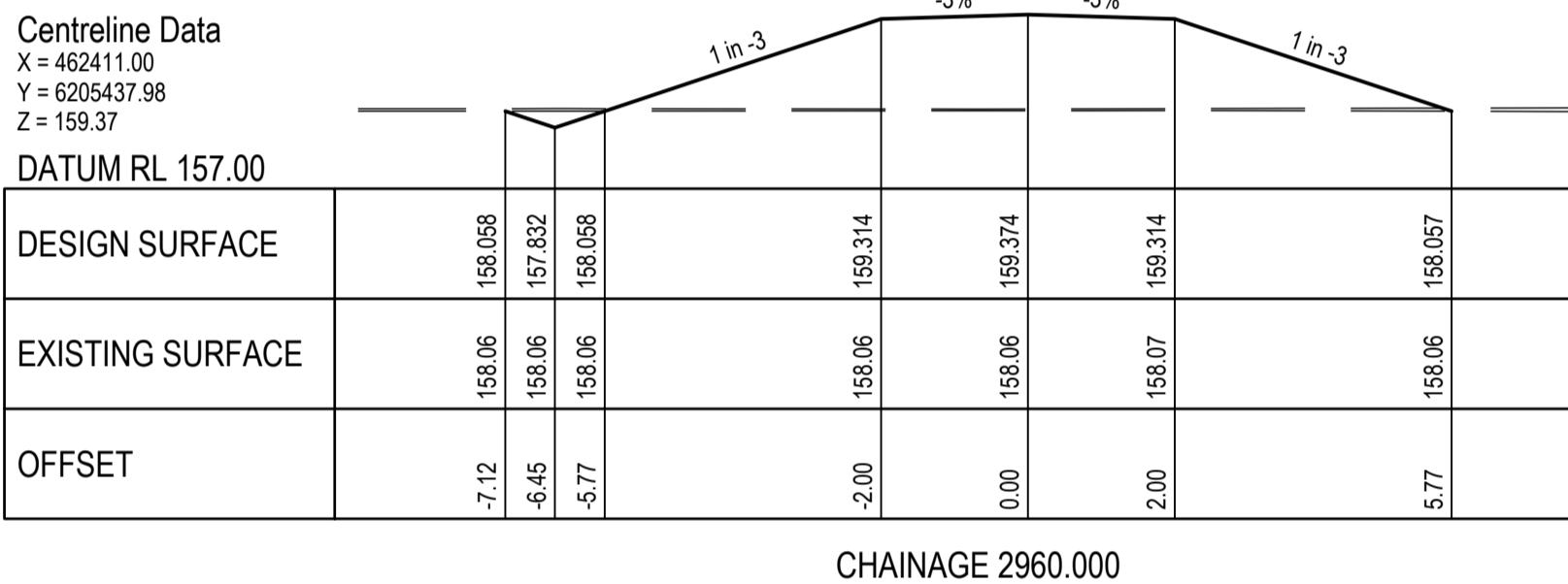
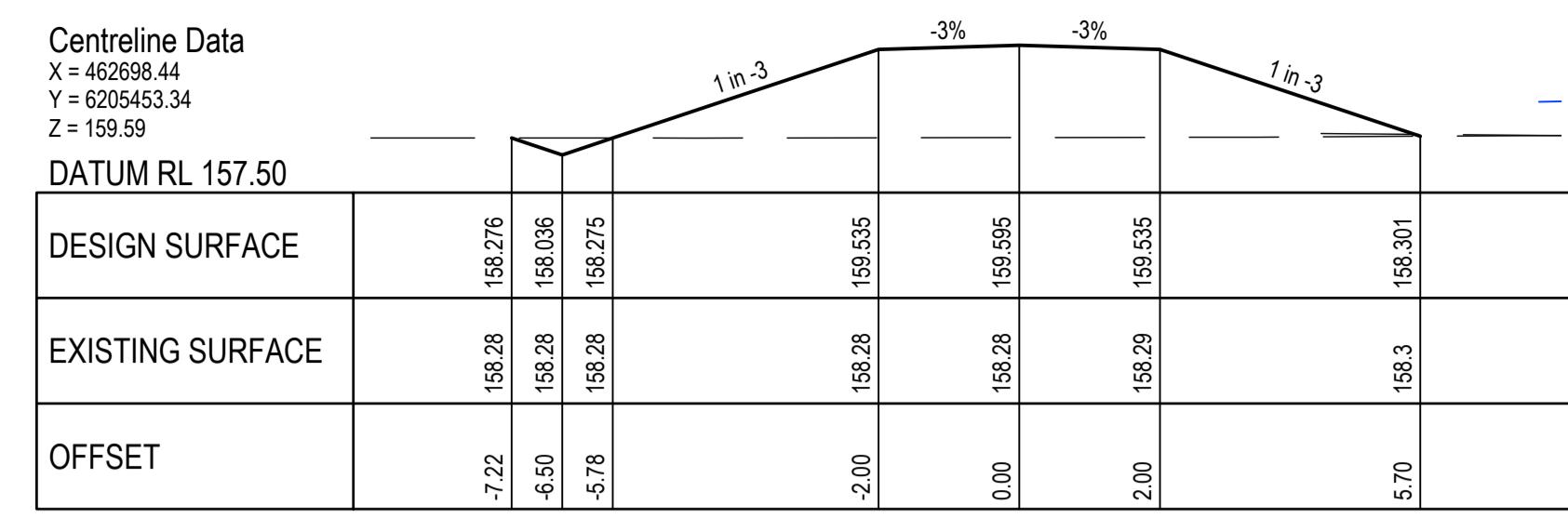
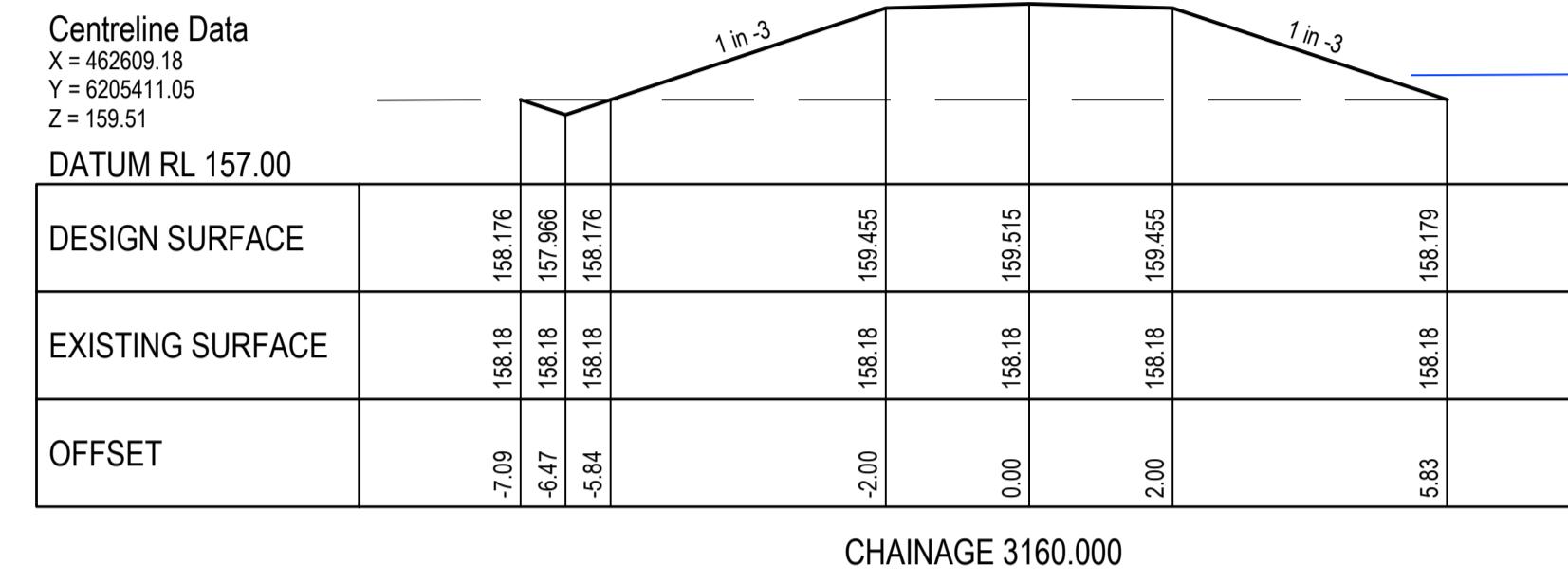
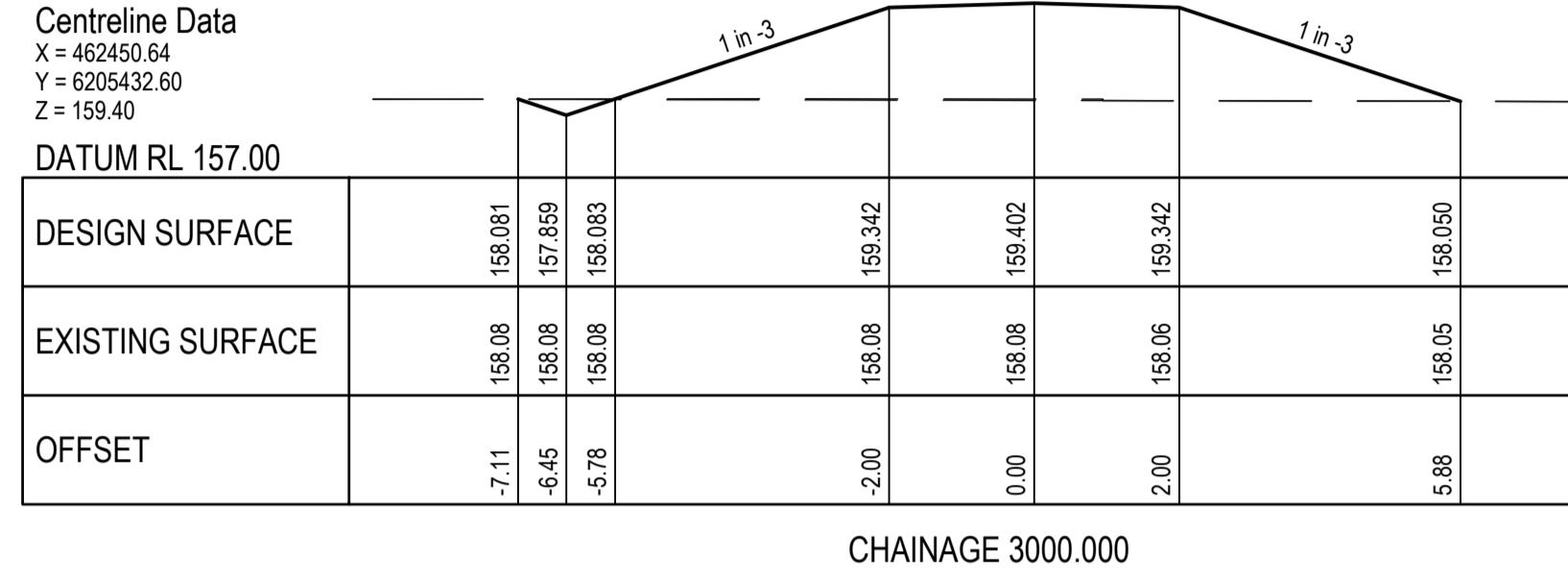


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NARRANDERA SHIRE COUNCIL
 BARELLAN LEVEE DESIGN
 KURRAJONG ST AND BARELLAN CEMETERY RD
 BARELLAN, NSW 2665
 DETAILED DESIGN
 LEVEE CROSS SECTIONS
 SHEET 8 OF 10

FOR CONSTRUCTION
 DRAWN
 A.WARD DATE 30/05/2023 SCALE AS SHOWN DATUM MAHD
 DESIGNED
 A.WARD DATE 25/05/2023 PROJECTION GD94 SHEET SIZE A1
 DSE23011-1207 A

	FINISHED SURFACE PROFILE
	EXISTING SURFACE PROFILE
	1% AEP FLOOD PROFILE



A	12/03/2024	CONSTRUCTION ISSUE	DESCRIPTION	AW	EH	EH	DES	VER	APP
REV DATE									



0 1 2 4m
SCALE 1:100 @A1

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NARRANDERA SHIRE COUNCIL
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
LEVEE CROSS SECTIONS
SHEET 9 OF 10

FOR CONSTRUCTION
DSE23011-1208
A

DRAWN
A.WARD
DATE 30/05/2023
SCALE AS SHOWN
DATUM MAHD

DESIGNED
A.WARD
DATE 25/05/2023
PROJECTION GD94
SHEET SIZE A1

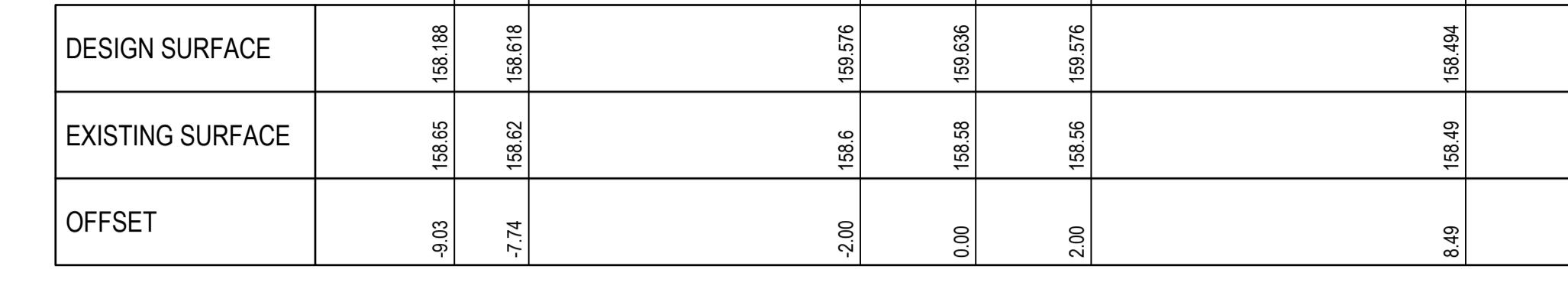
LEGEND - CROSS AND LONG SECTIONS
 FINISHED SURFACE PROFILE
 EXISTING SURFACE PROFILE
 1% AEP FLOOD PROFILE

DATE PLOTED: 12 March 2024 9:55 AM BY: AARONWARD

Centreline Data

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 Y = 6205516.68
 Z = 159.64

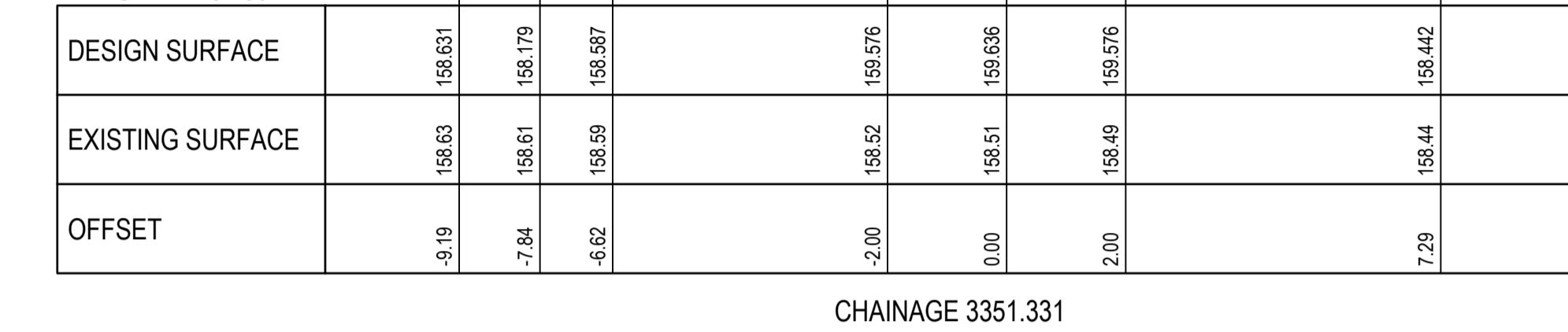
DATUM RL 157.50



Centreline Data

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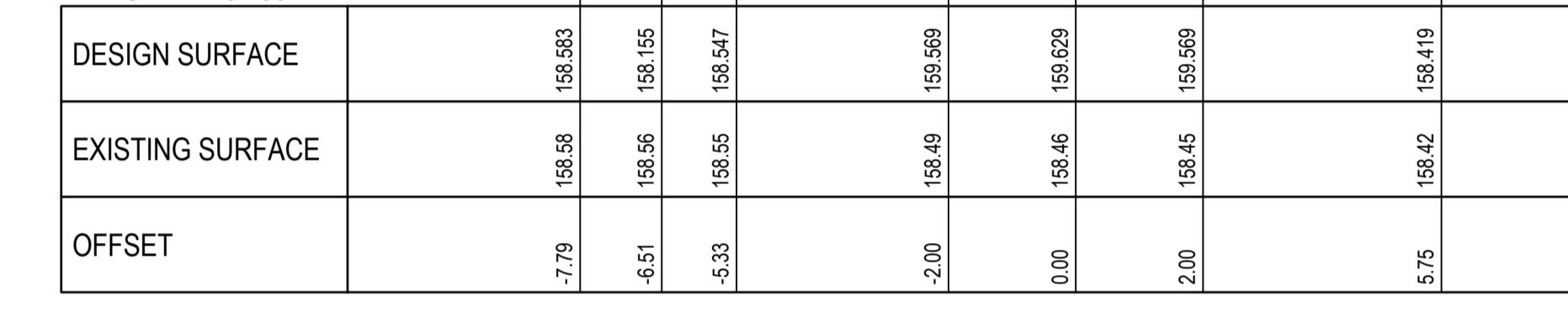
DATUM RL 157.50



Centreline Data

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 Z = 159.63

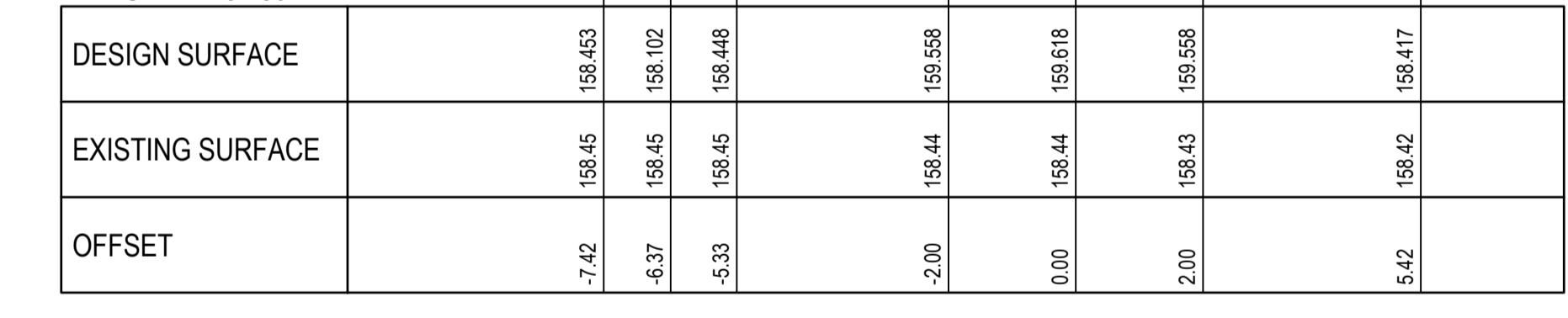
DATUM RL 157.50



Centreline Data

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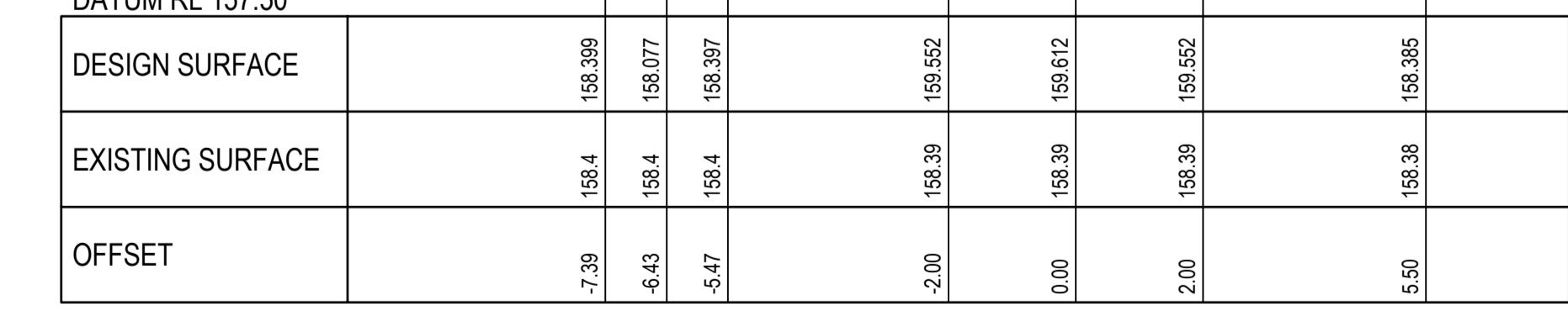
DATUM RL 157.50



Centreline Data

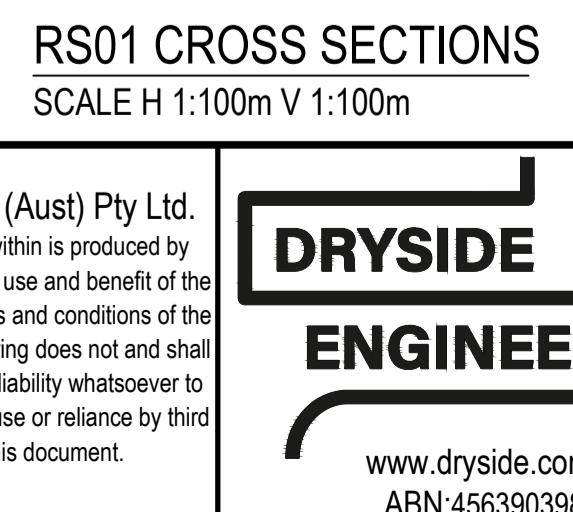
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DATUM RL 157.50



0 1 2 4m
SCALE 1:100 @A1

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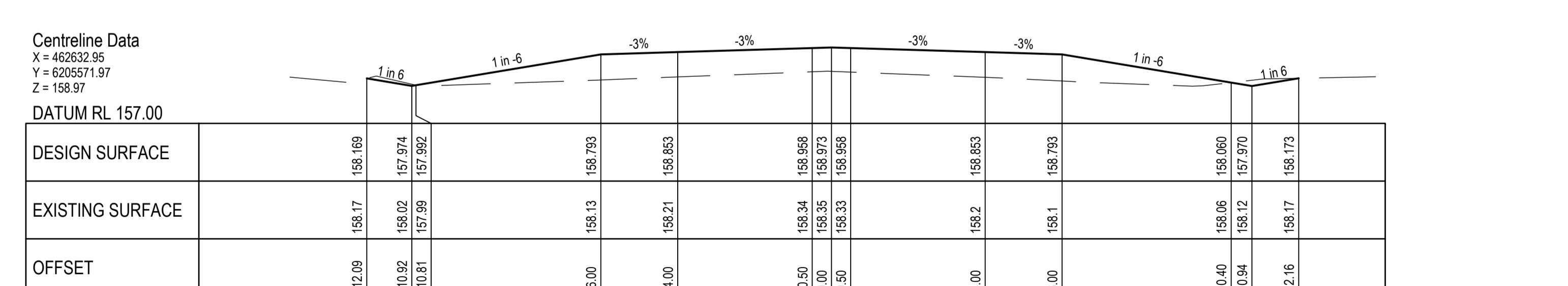
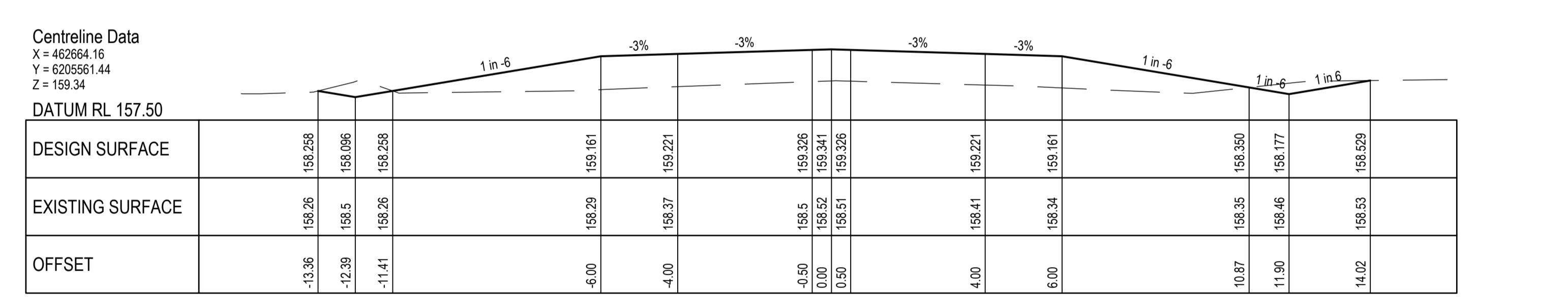
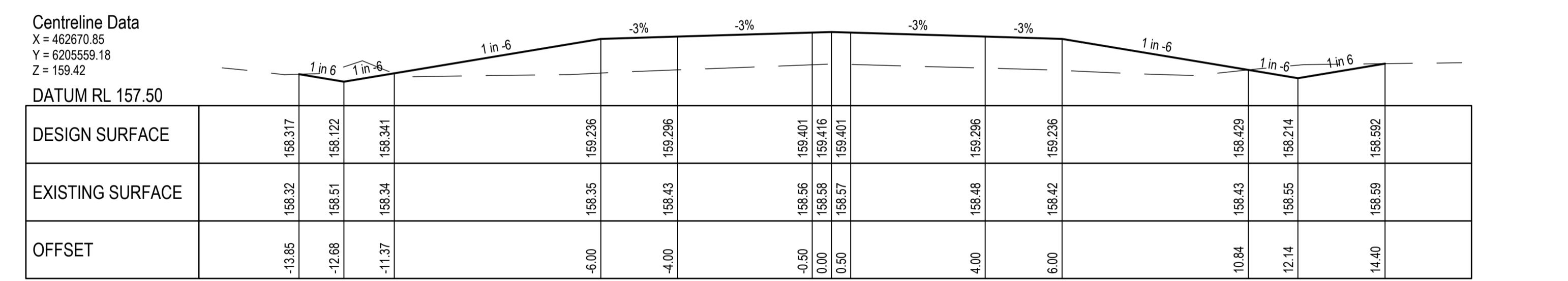
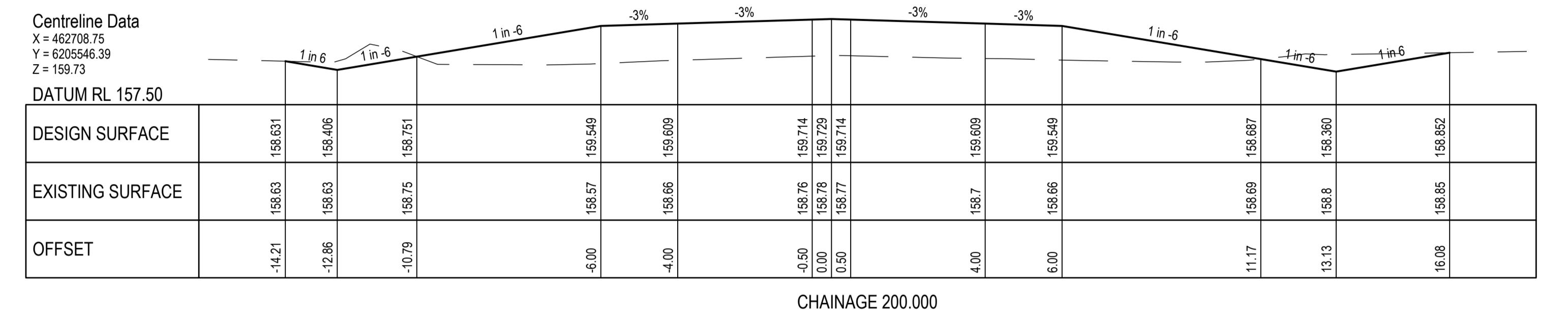
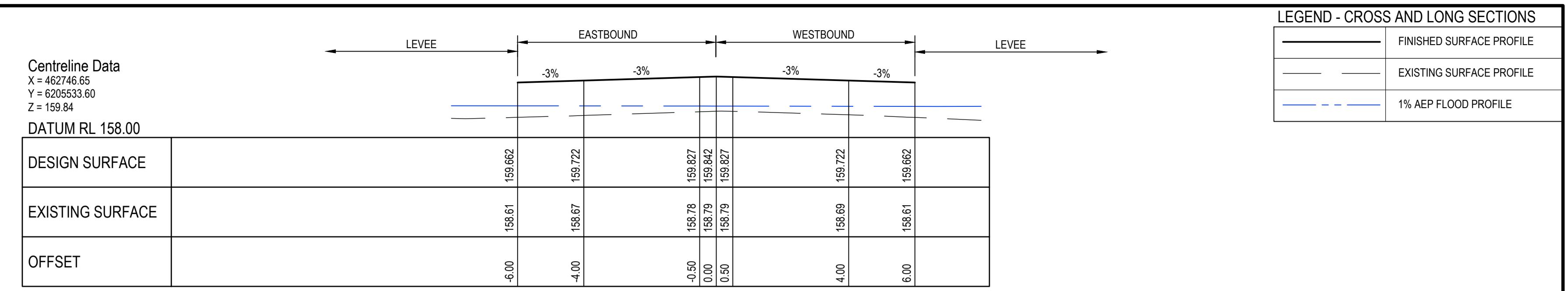
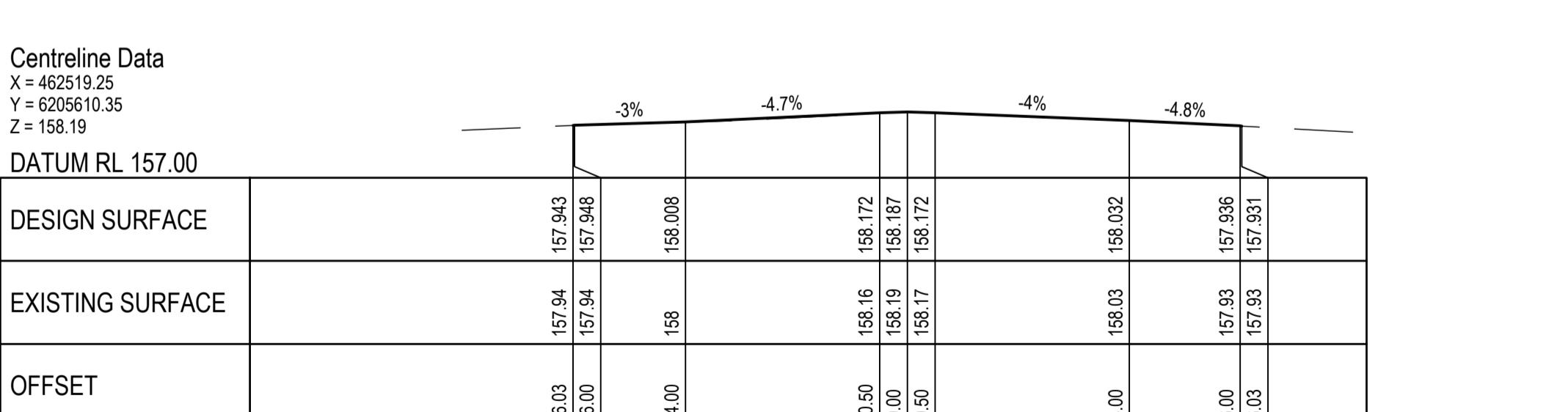
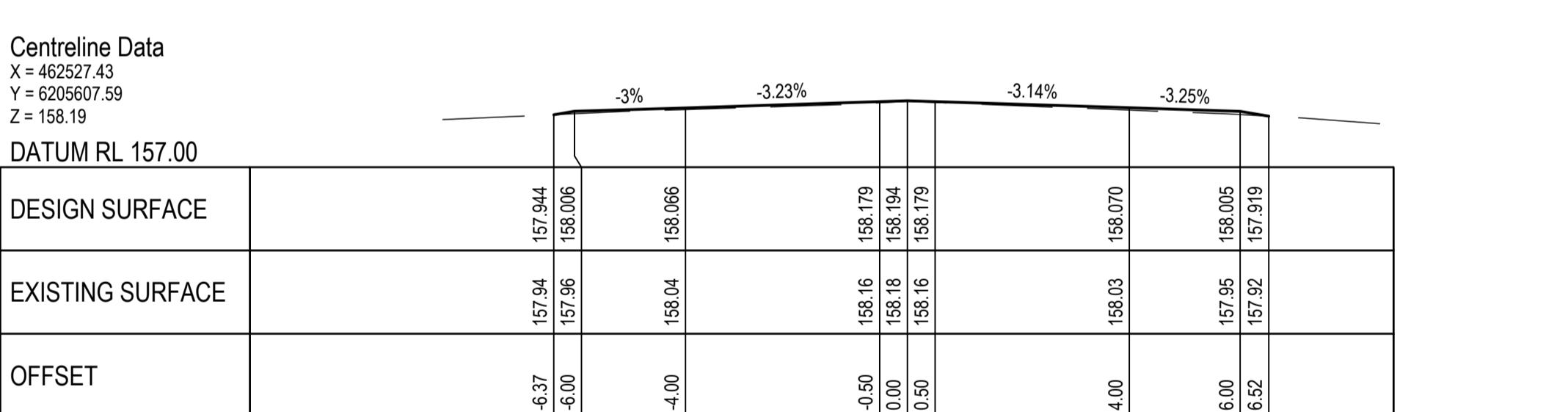
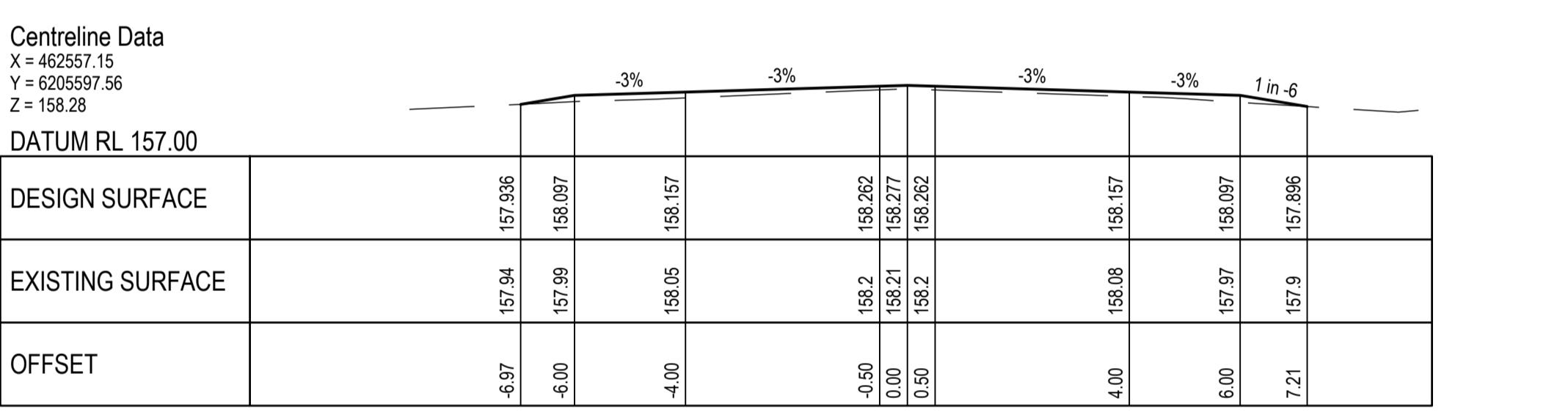
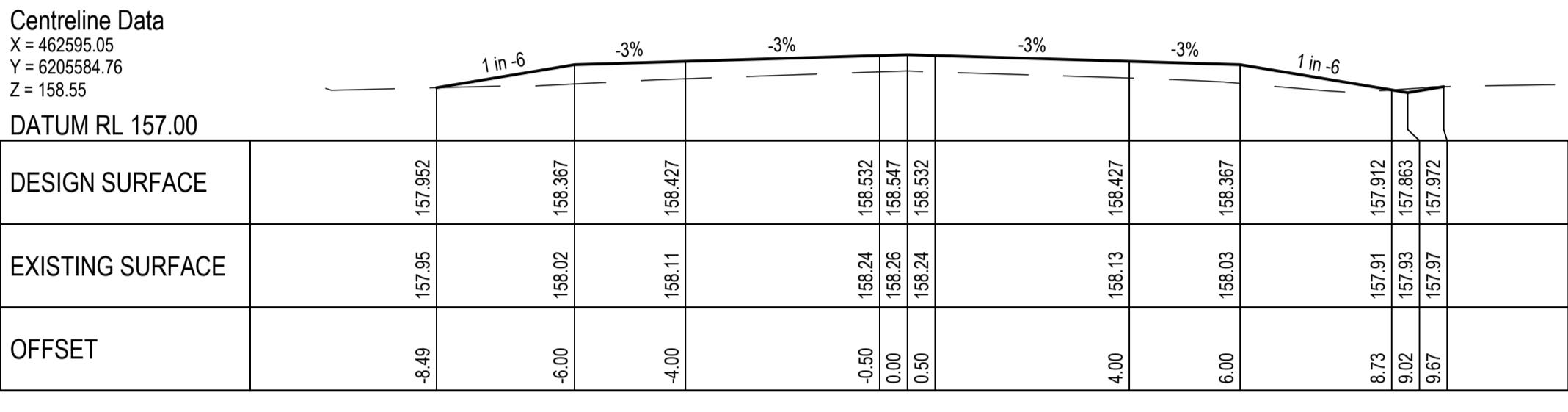
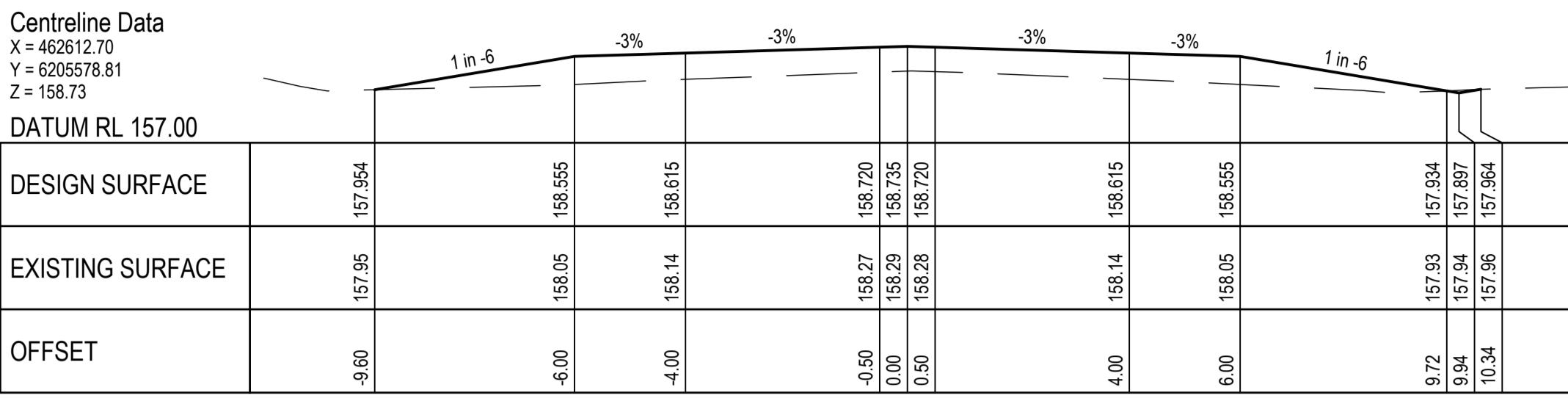


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 BARELLAN LEVEE DESIGN
 KURRAJONG ST AND BARELLAN CEMETERY RD
 BARELLAN, NSW 2665
 DETAILED DESIGN
 LEVEE CROSS SECTIONS
 SHEET 10 OF 10

DRAWN
A.WARD DATE 30/05/2023 SCALE AS SHOWN DATUM MAHD
 DESIGNED
A.WARD DATE 25/05/2023 PROJECTION GD94 SHEET SIZE A1
 DSE23011-1209 A

FOR CONSTRUCTION

**RS09 CROSS SECTIONS**

SCALE H 1:100m V 1:100m

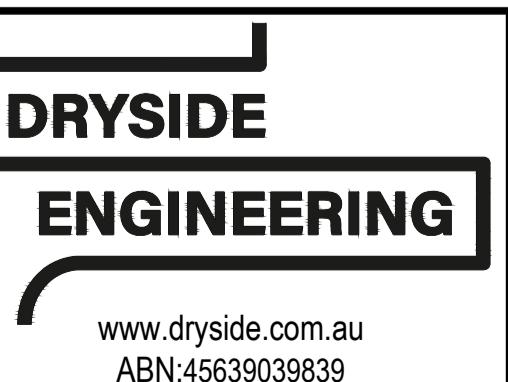
FOR CONSTRUCTION

A	12/03/2024	CONSTRUCTION ISSUE	AW	EH	EH
REV	DATE	DESCRIPTION	DES	VER	APP



0 1 2 4m
SCALE 1:100 @A1

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NARRANDERA SHIRE COUNCIL
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
RS09 BURLEY GRIFFIN WAY CROSS SECTIONS
SHEET 1 OF 3

DRAWN
A.WARD
DATE 30/05/2023
SCALE AS SHOWN
DATUM MAHD

DESIGNED
A.WARD
DATE 25/05/2023
PROJECTION GD94
SHEET SIZE A1

DSE23011-1220 A

LEGEND - CROSS AND LONG SECTIONS		
	FINISHED SURFACE PROFILE	
	EXISTING SURFACE PROFILE	
		1% AEP FLOOD PROFILE

EASTBOUND WESTBOUND

Centreline Data

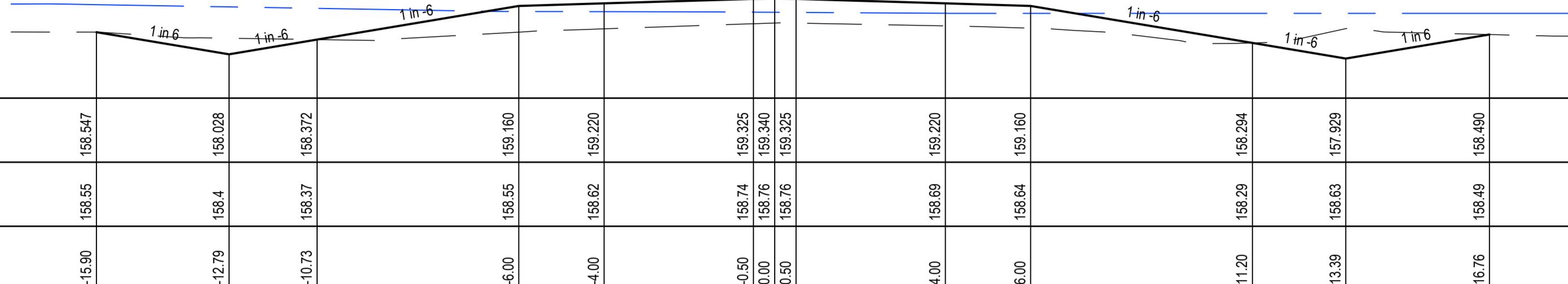
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Z = 159.34

DATUM RL 157.00

DESIGN SURFACE

EXISTING SURFACE

OFFSET



Centreline Data

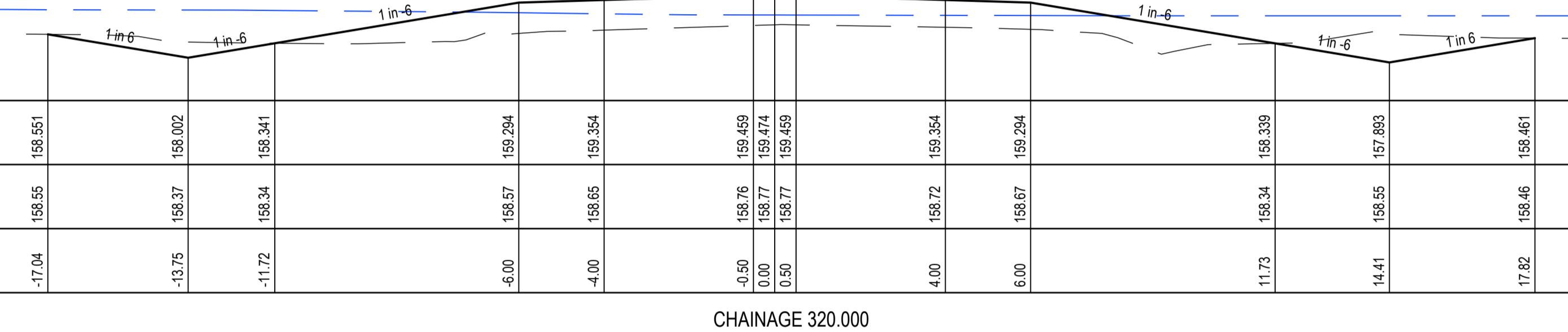
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Z = 159.47

DATUM RL 157.00

DESIGN SURFACE

EXISTING SURFACE

OFFSET



Centreline Data

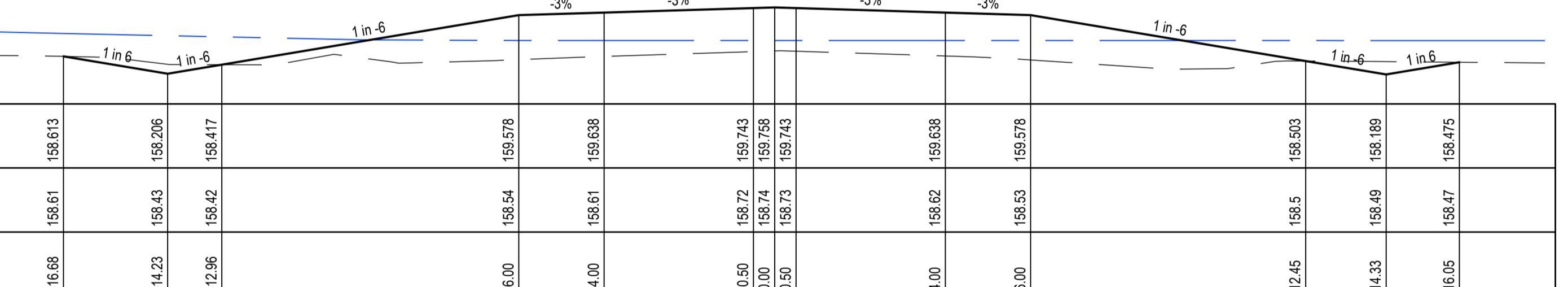
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Y = 6205520.81
Z = 159.76

DATUM RL 157.50

DESIGN SURFACE

EXISTING SURFACE

OFFSET



LEVEE LEVEE

1%AEP WL 158.96mAHD

Centreline Data

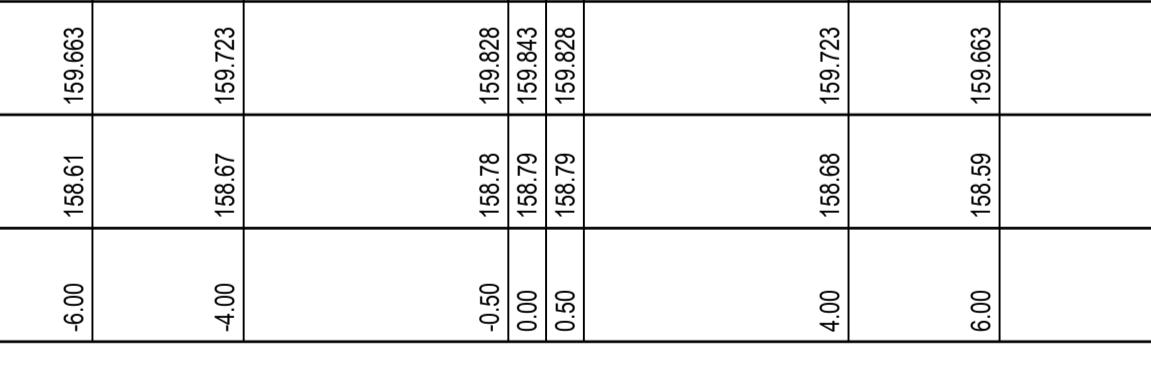
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Z = 159.84

DATUM RL 158.00

DESIGN SURFACE

EXISTING SURFACE

OFFSET

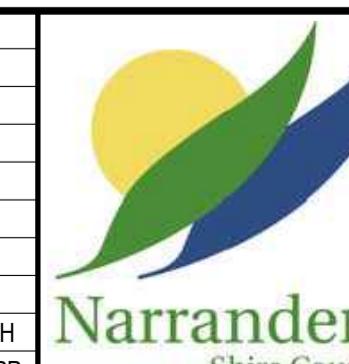


RS09 CROSS SECTIONS

SCALE H 1:100m V 1:100m

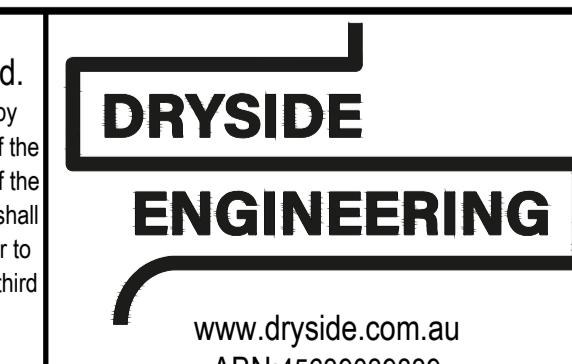
FOR CONSTRUCTION

REV	DATE	CONSTRUCTION ISSUE			AW	EH	EH
		DESCRIPTION	DES	VER			
A	12/03/2024						



0 1 2 4m
SCALE 1:100 @A1

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NARRANDERA SHIRE COUNCIL
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
RS09 BURLEY GRIFFIN WAY CROSS SECTIONS
SHEET 2 OF 3

DRAWN
A.WARD DATE 30/05/2023 SCALE AS SHOWN DATUM MAHD
DESIGNED
A.WARD DATE 25/05/2023 PROJECTION GD94 SHEET SIZE A1
DSE23011-1221 A

LEGEND - CROSS AND LONG SECTIONS		
	FINISHED SURFACE PROFILE	
	EXISTING SURFACE PROFILE	
		1% AEP FLOOD PROFILE

Centreline Data

X = 462928.53
Y = 6205472.21
Z = 158.76

DATUM RL 157.50

DESIGN SURFACE				
EXISTING SURFACE				
OFFSET				

CHAINAGE 431.953

Centreline Data

X = 462928.00
Y = 6205472.39
Z = 158.76

DATUM RL 157.50

DESIGN SURFACE				
EXISTING SURFACE				
OFFSET				

CHAINAGE 431.398

Centreline Data

X = 462998.25
Y = 6205482.43
Z = 158.81

DATUM RL 157.50

DESIGN SURFACE				
EXISTING SURFACE				
OFFSET				

CHAINAGE 400.000

Centreline Data

X = 462860.35
Y = 6205495.22
Z = 159.06

DATUM RL 157.50

DESIGN SURFACE				
EXISTING SURFACE				
OFFSET				

CHAINAGE 360.000

Centreline Data

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Y = 6205501.17
Z = 159.25

DATUM RL 157.00

DESIGN SURFACE				
EXISTING SURFACE				
OFFSET				

CHAINAGE 341.398

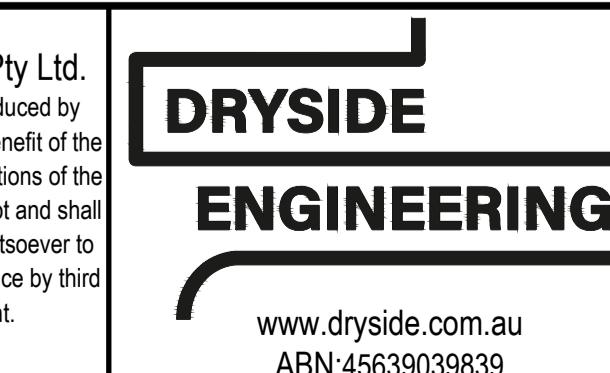
RS09 CROSS SECTIONS

SCALE H 1:100m V 1:100m



0 1 2 4m
SCALE 1:100 @A1

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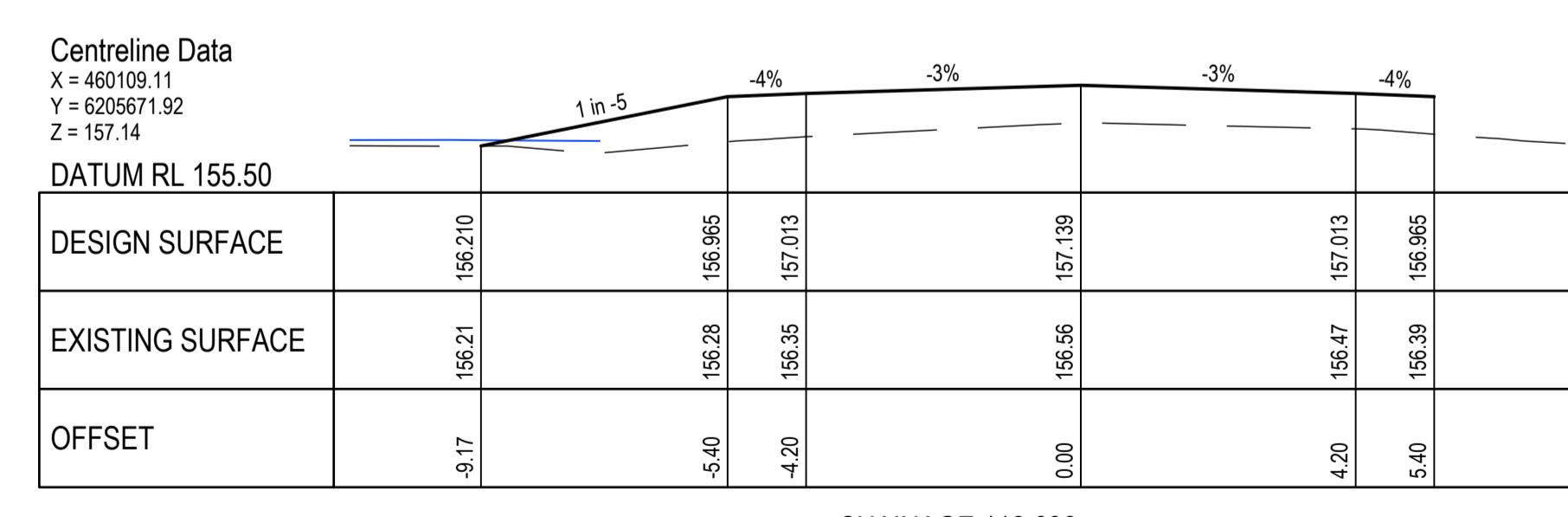
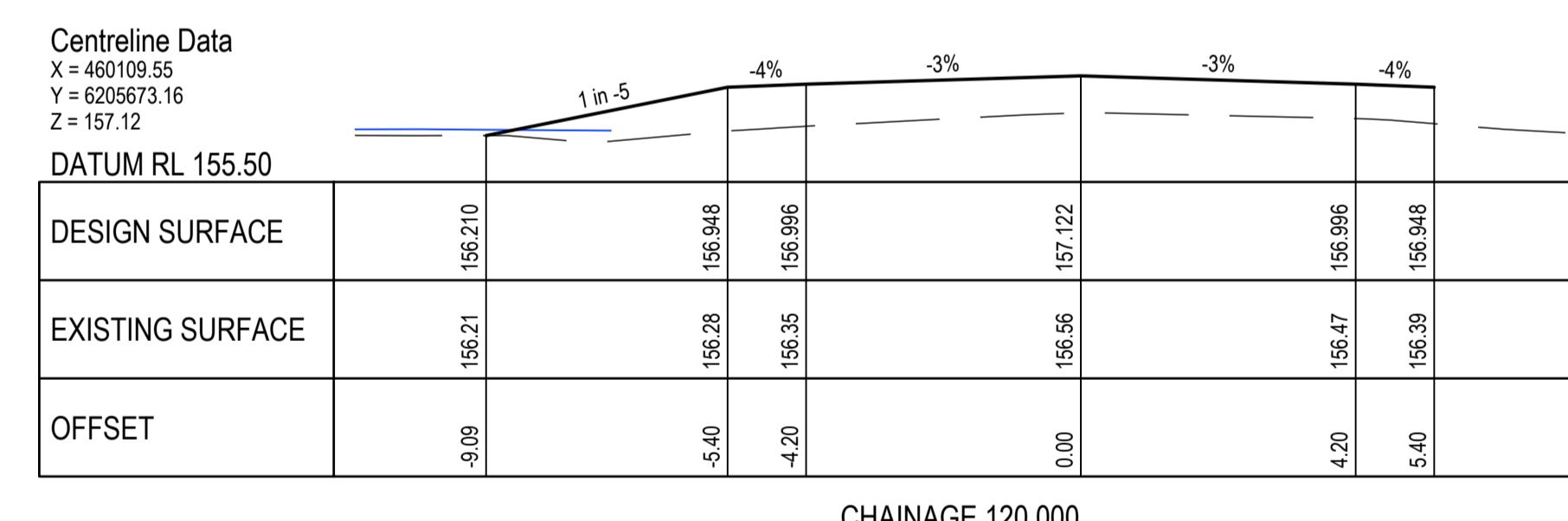
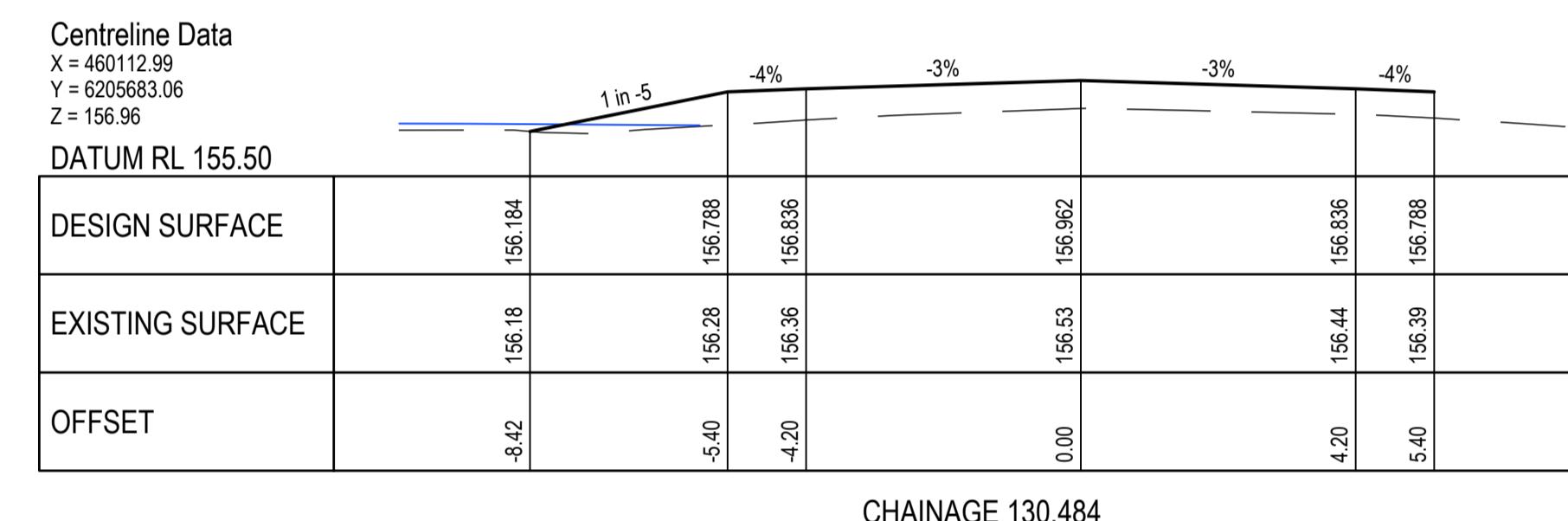
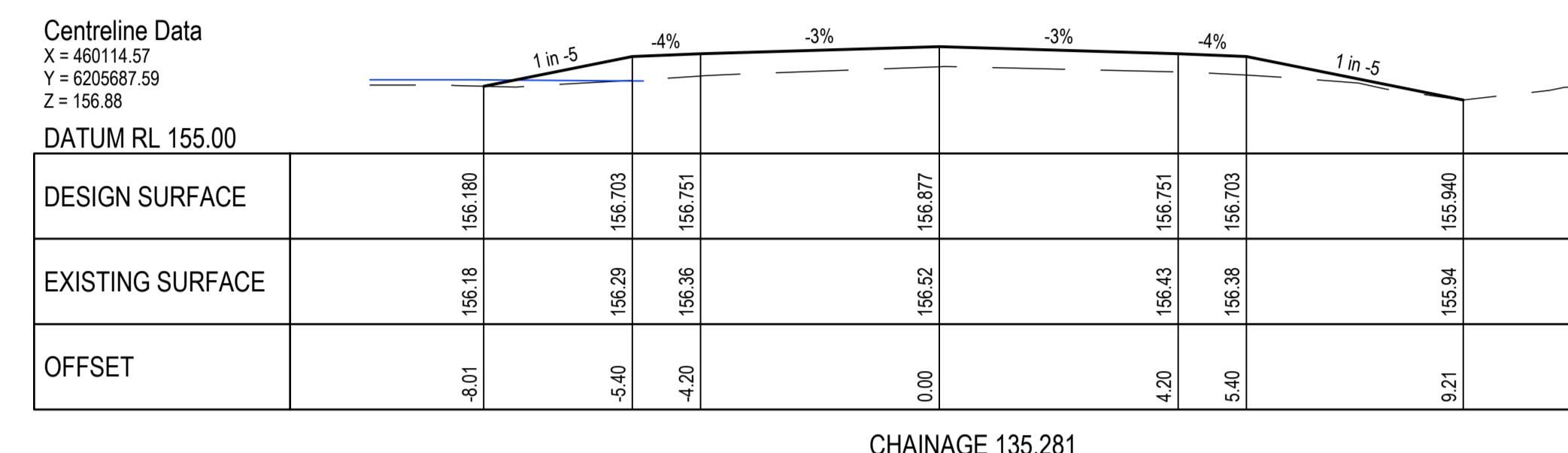
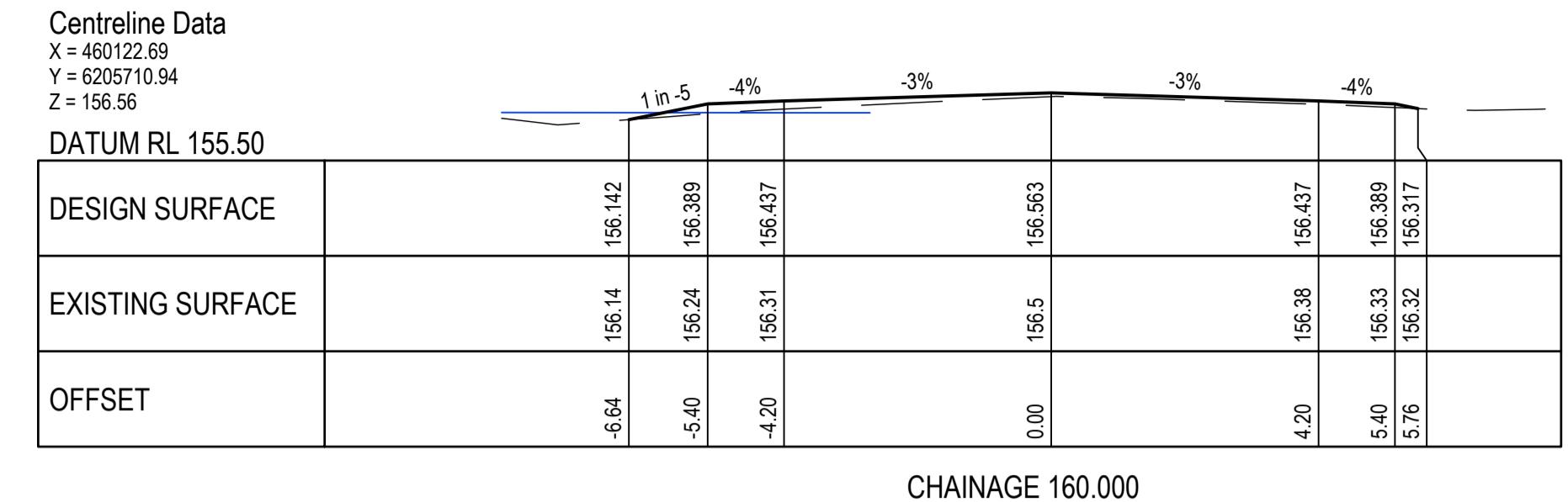
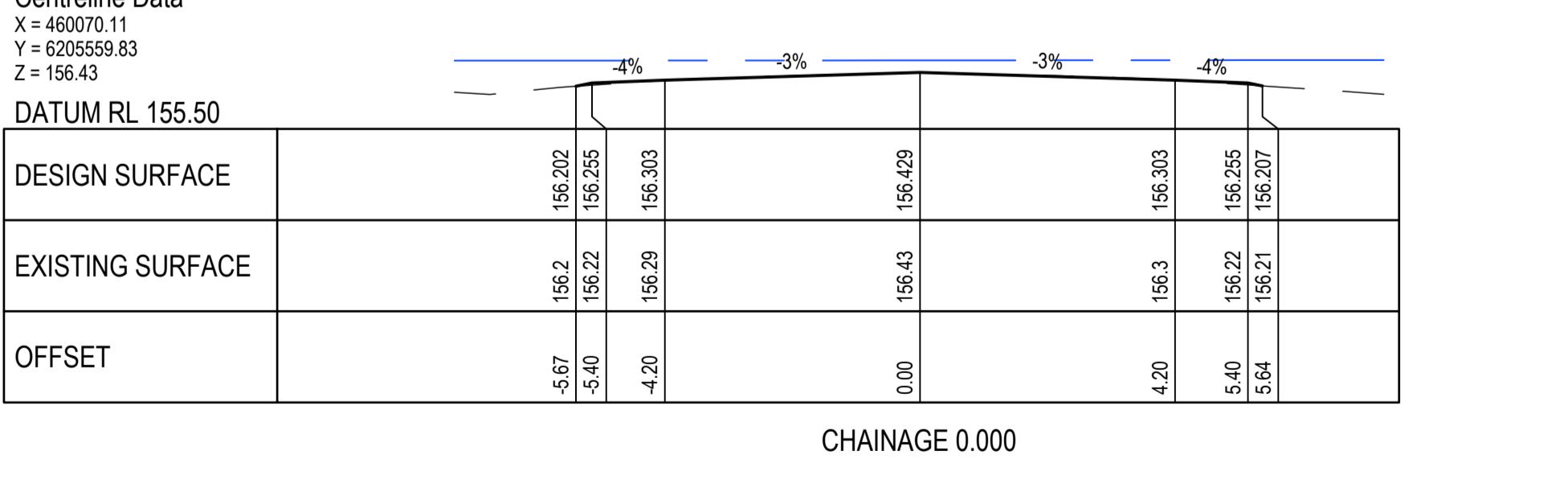
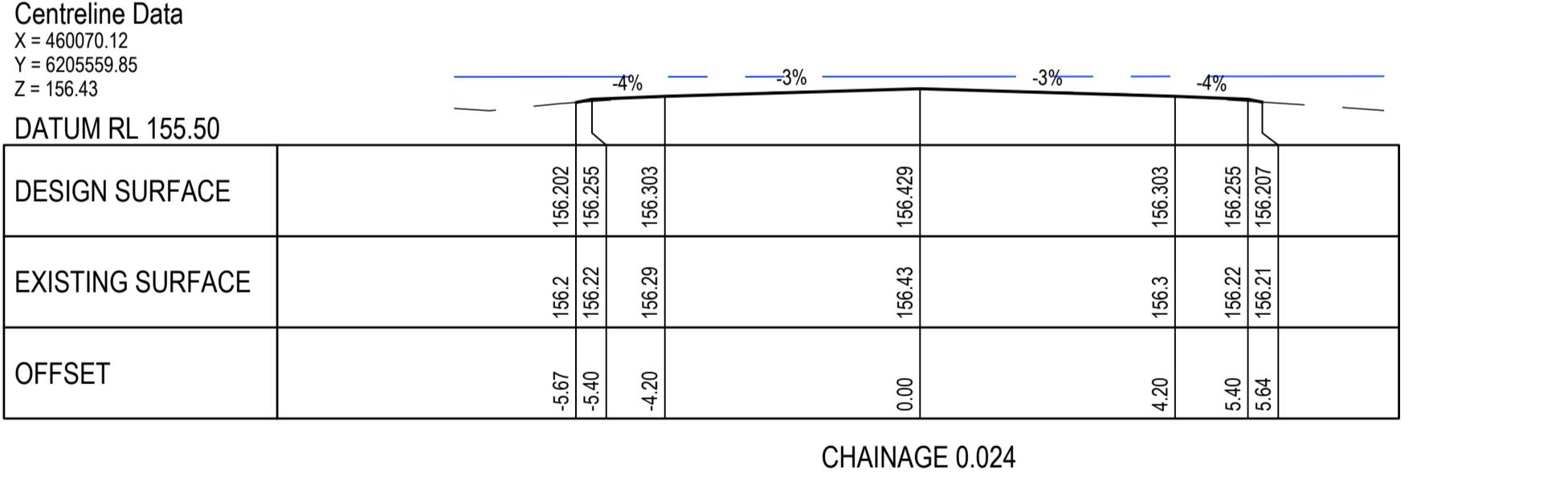
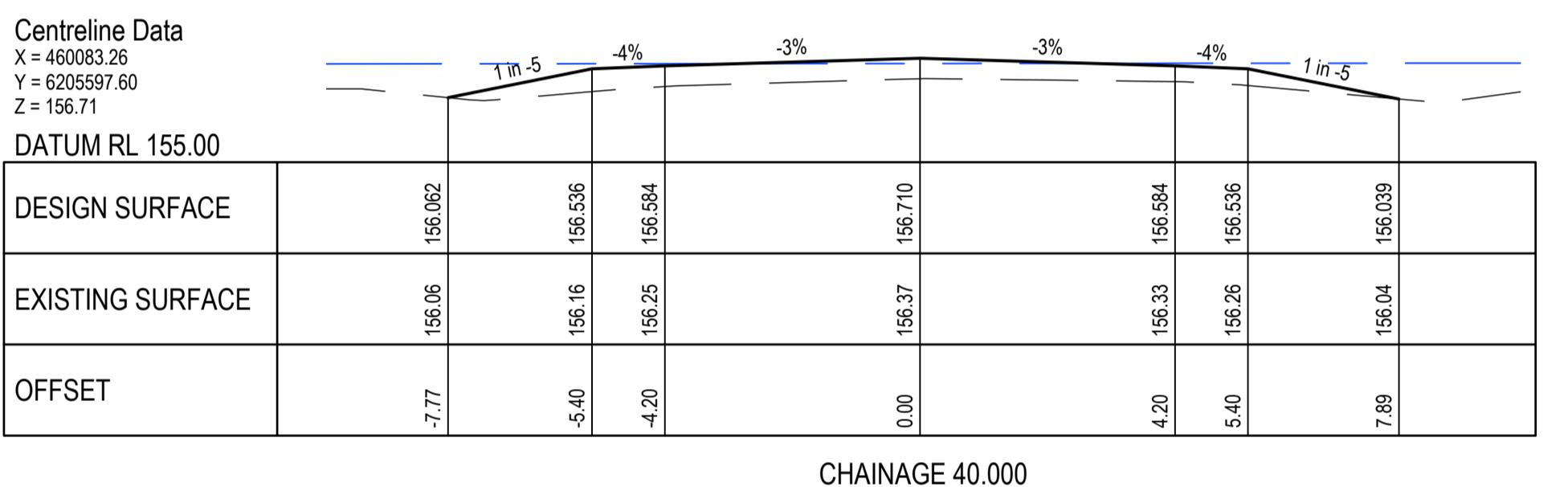
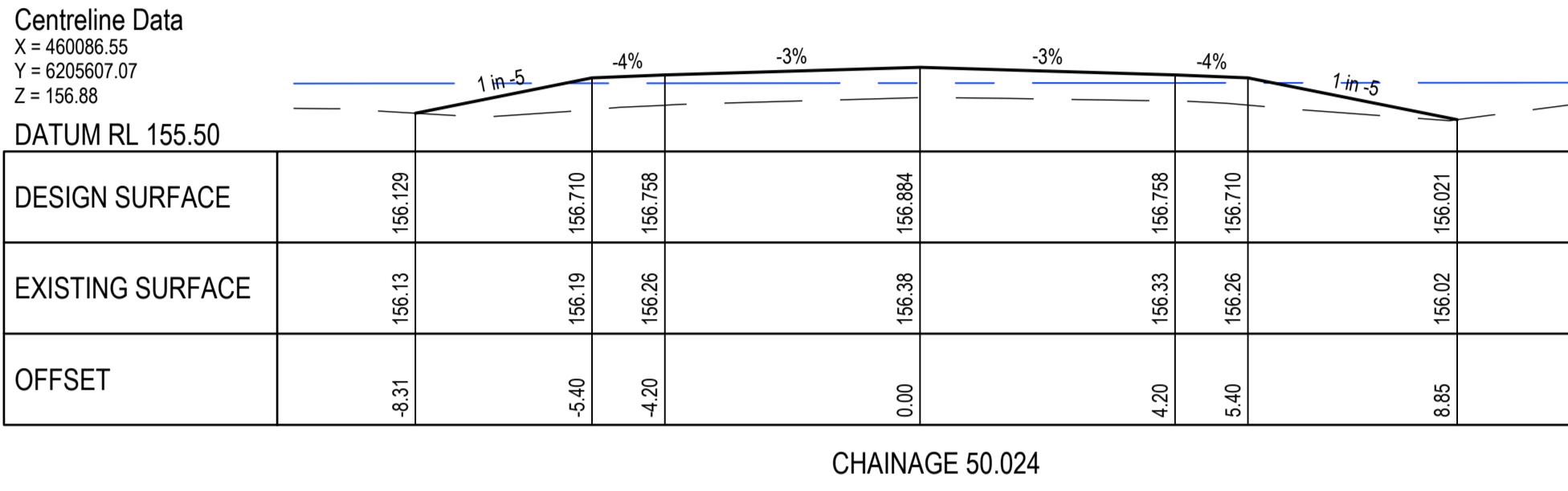
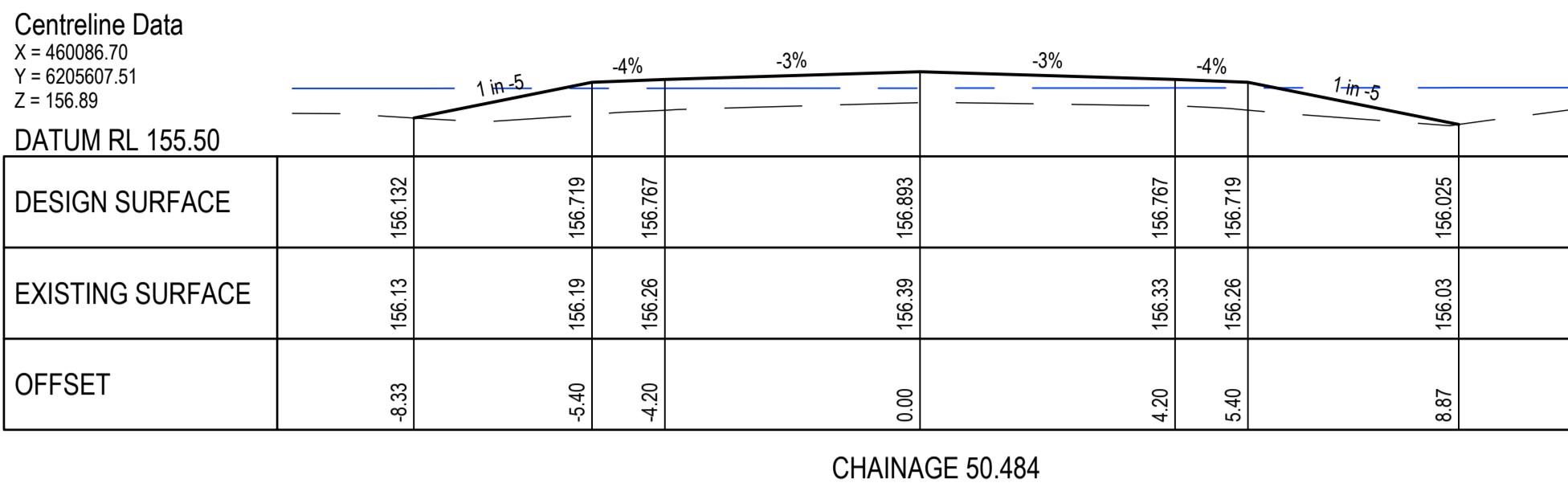
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NARRANDERA SHIRE COUNCIL

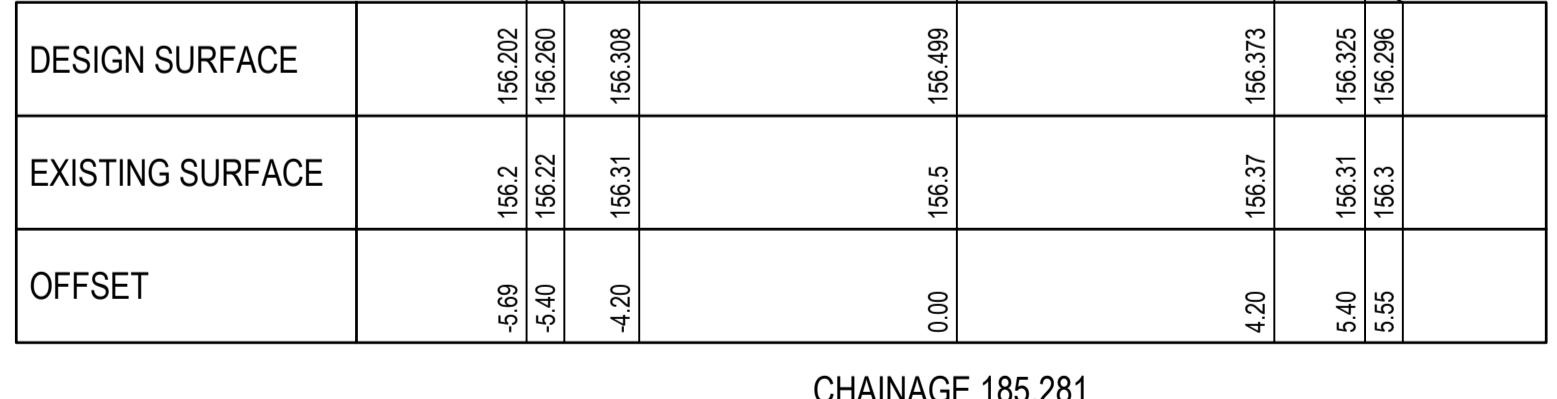
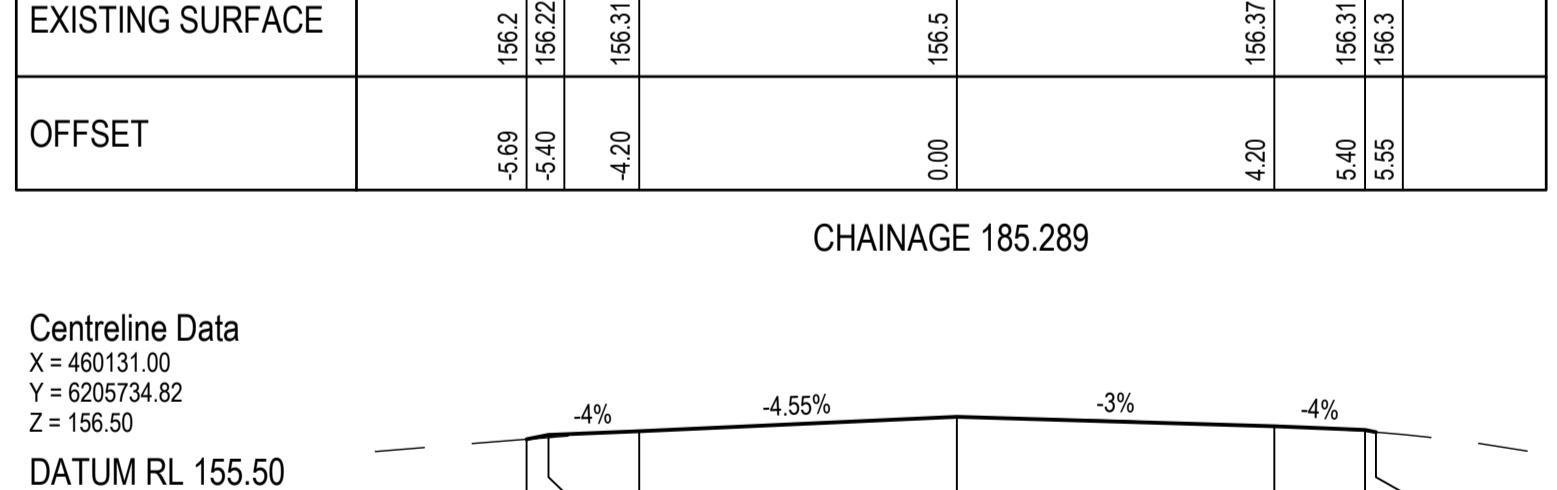
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
RS09 BURLEY GRIFFIN WAY CROSS SECTIONS
SHEET 3 OF 3

FOR CONSTRUCTION

DRAWN
A.WARD DATE 30/05/2023 SCALE AS SHOWN DATUM MAHD
DESIGNED
A.WARD DATE 25/05/2023 PROJECTION GD94 SHEET SIZE A1
DSE23011-1222 A



LEGEND - CROSS AND LONG SECTIONS		
	FINISHED SURFACE PROFILE	
	EXISTING SURFACE PROFILE	
	—	1% AEP FLOOD PROFILE



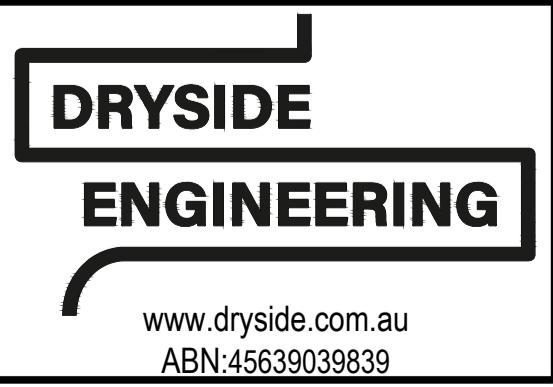
FOR CONSTRUCTION

A	12/03/2024	CONSTRUCTION ISSUE	DESCRIPTION	AW	EH	EH	DES	VER	APP
REV									



0 1 2 4m
SCALE 1:100 @A1

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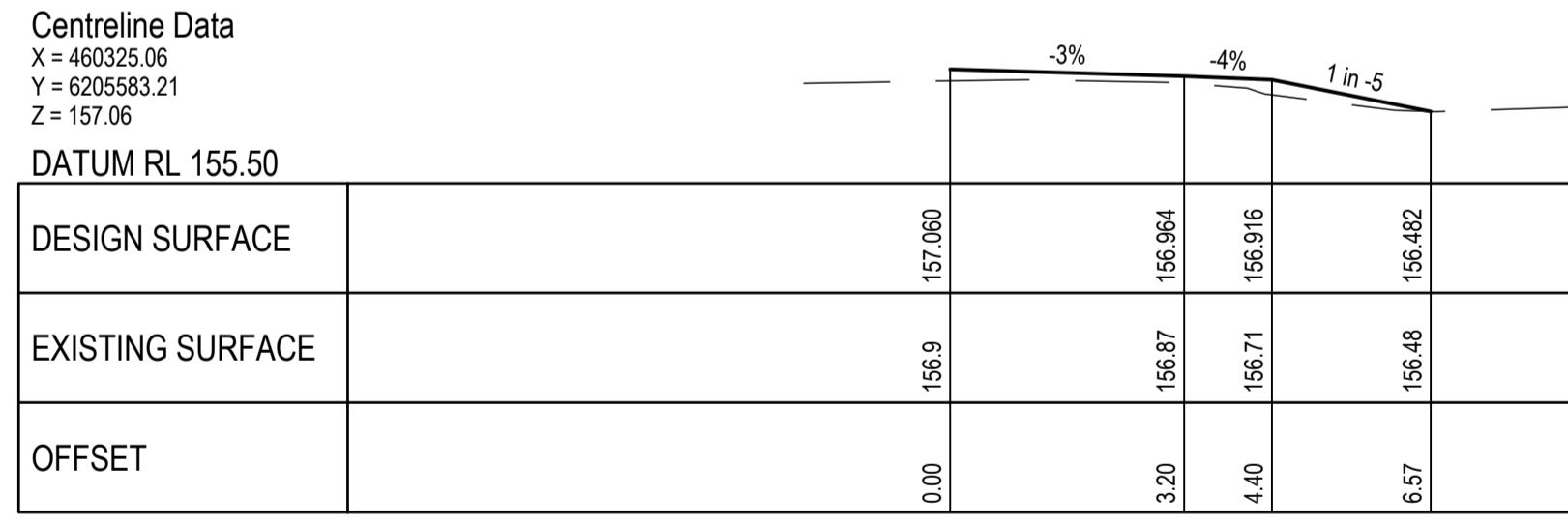
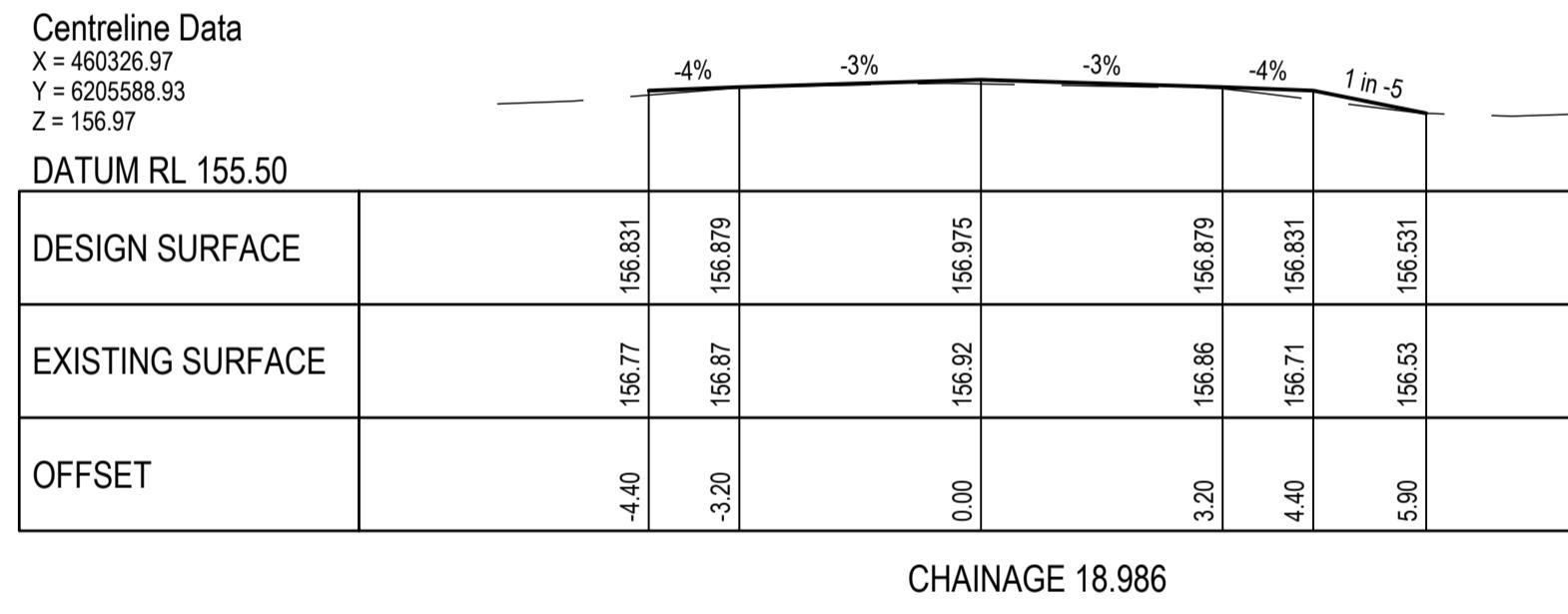
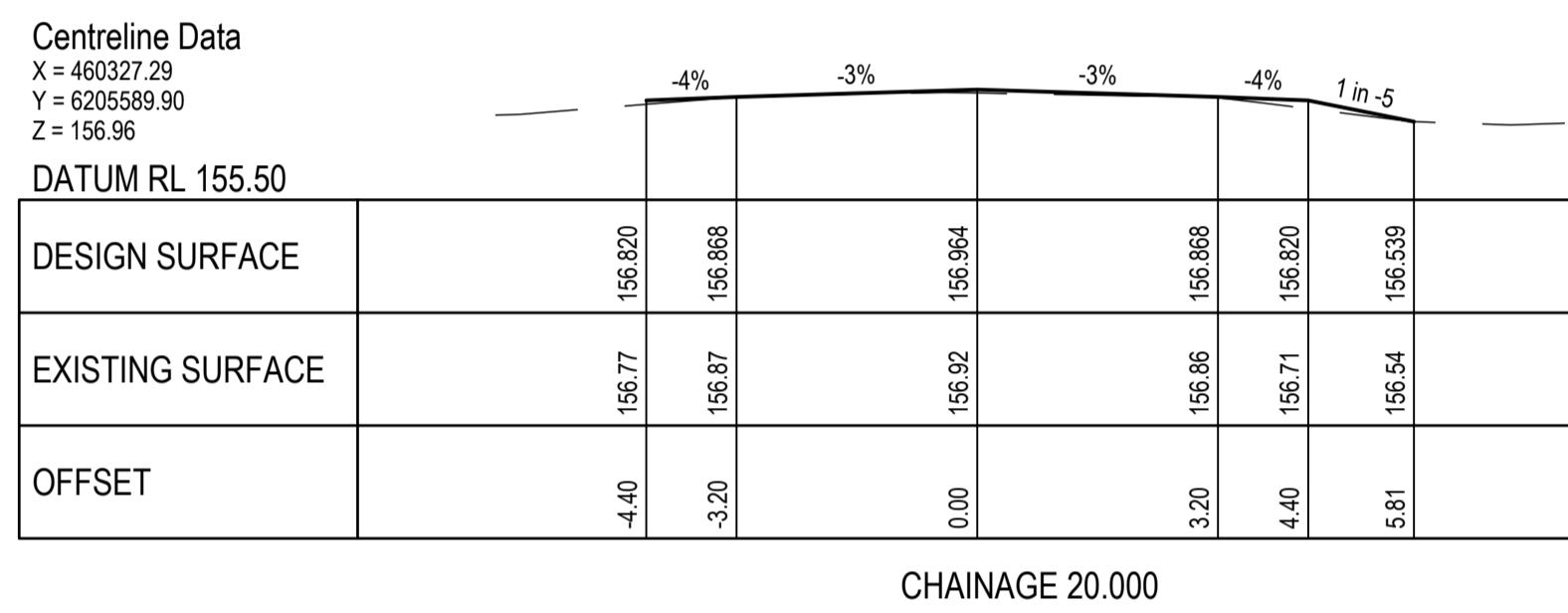
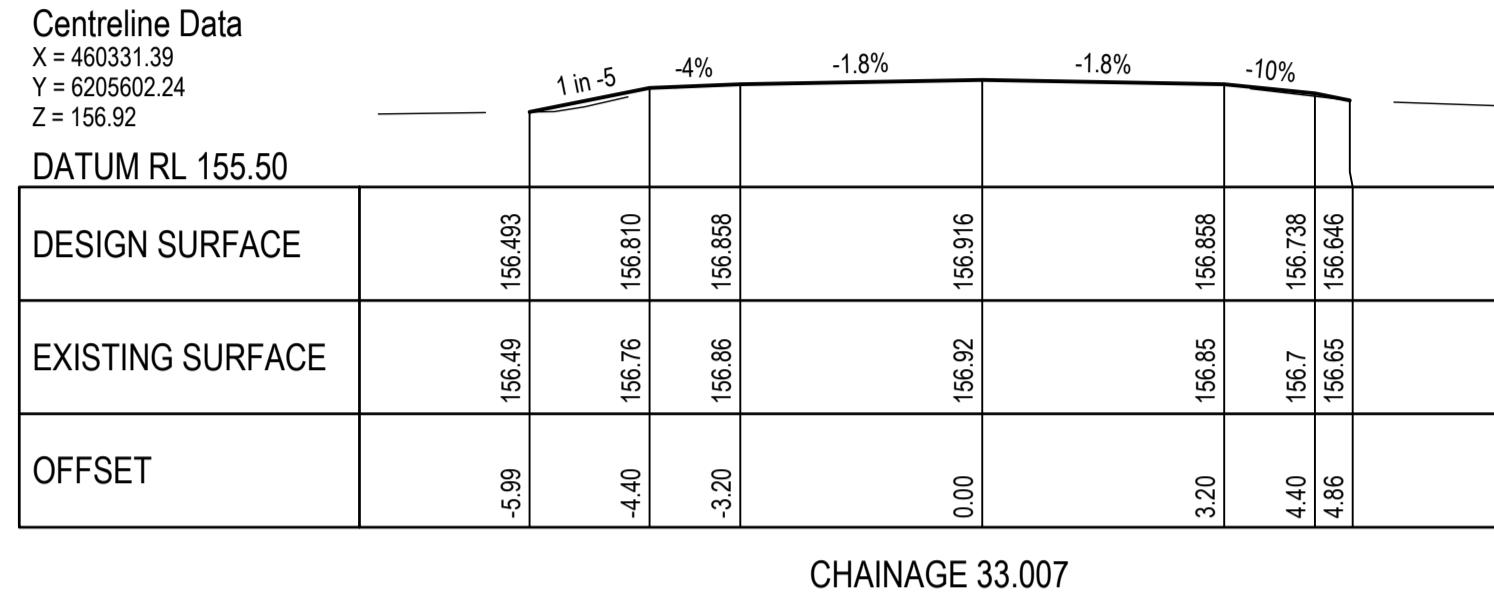


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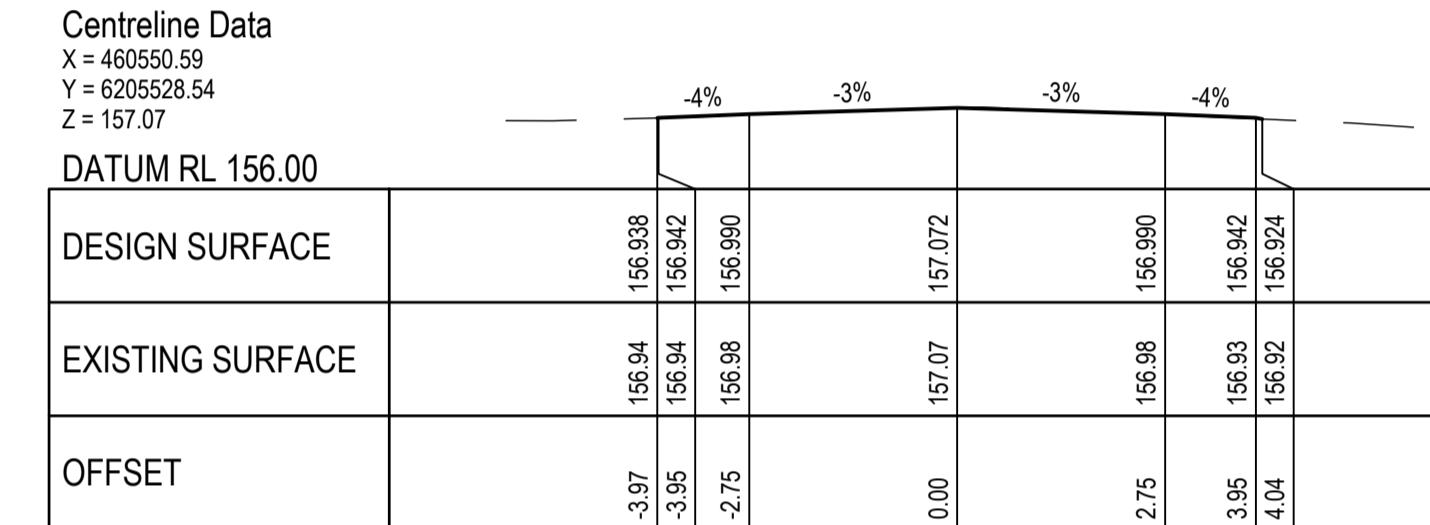
NARRANDERA SHIRE COUNCIL
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
ROAD CROSS SECTIONS
SHEET 1 OF 4

DRAWN
A.WARD DATE 30/05/2023 SCALE AS SHOWN DATUM MAHD
DESIGNED
A.WARD DATE 25/05/2023 PROJECTION GD94 SHEET SIZE A1
DSE2301-1230 A

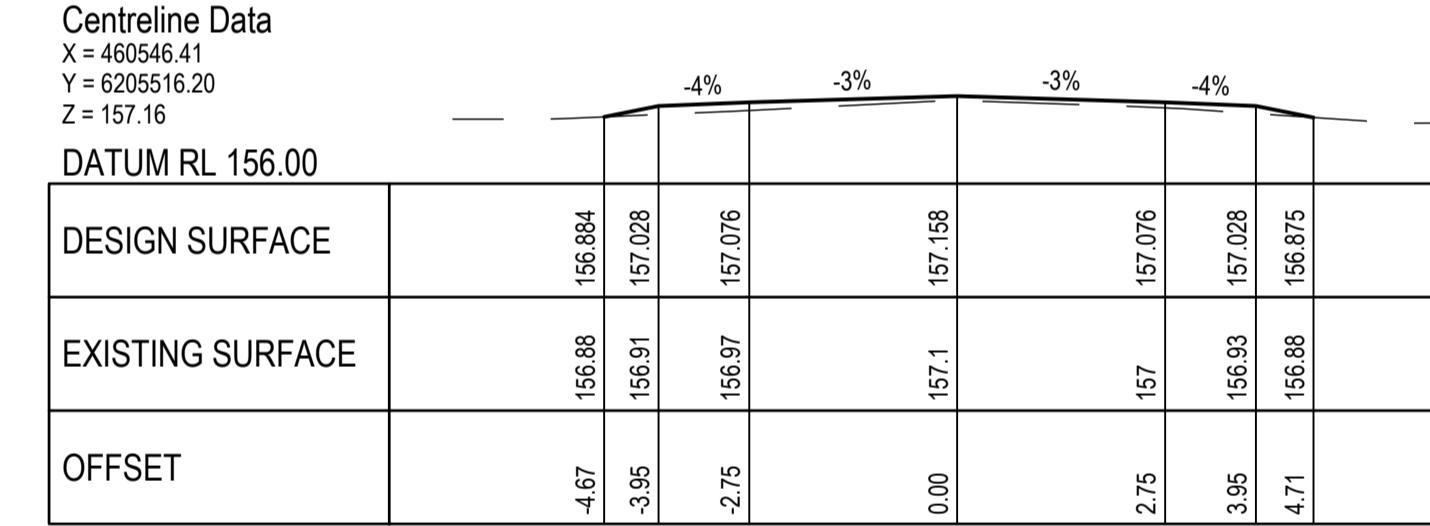
LEGEND - CROSS AND LONG SECTIONS		
	FINISHED SURFACE PROFILE	
	EXISTING SURFACE PROFILE	
	1% AEP FLOOD PROFILE	



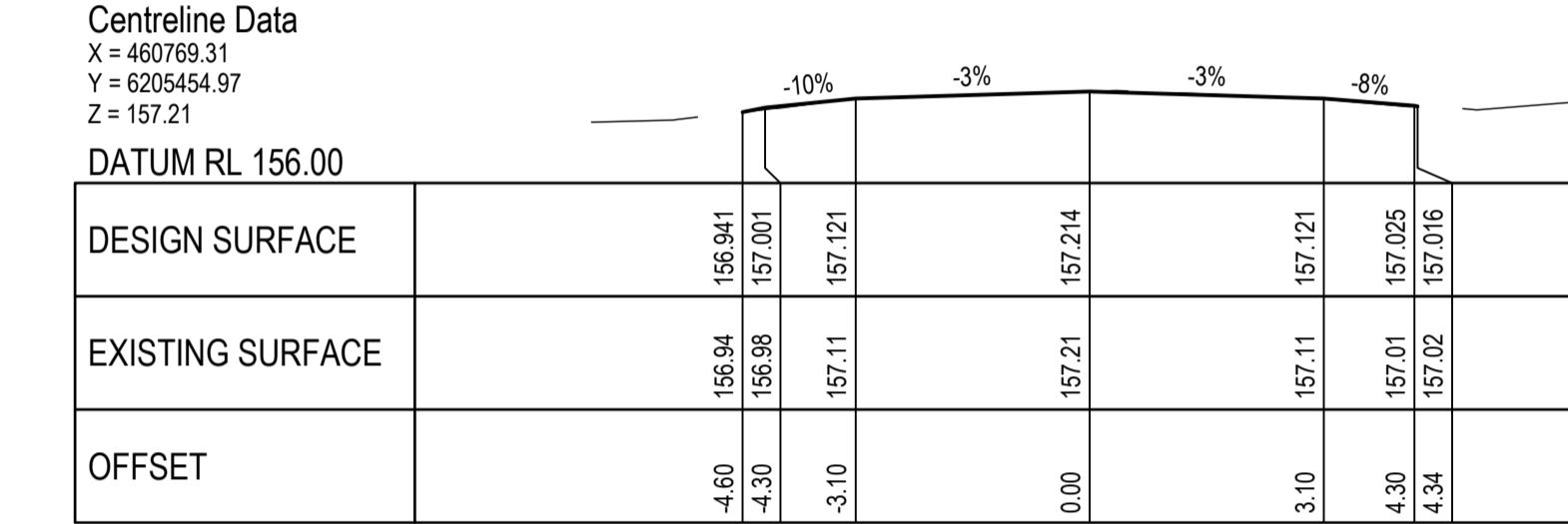
RS03 MYALL STREET CROSS SECTIONS
SCALE H 1:100m V 1:100m



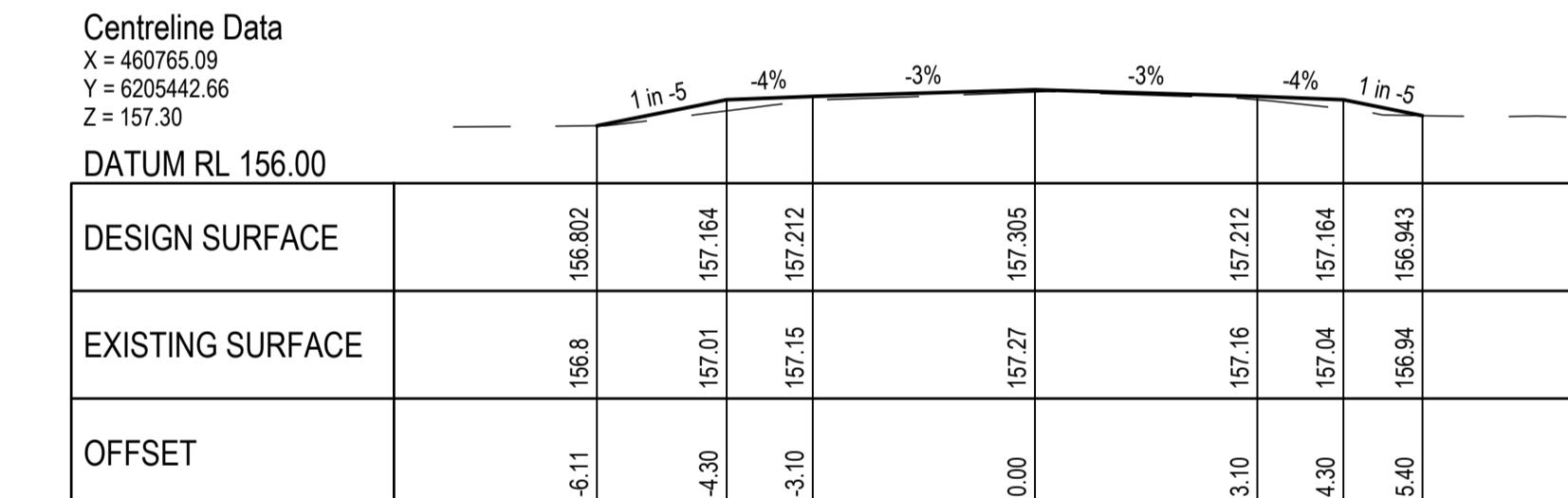
CHAINAGE 33.023



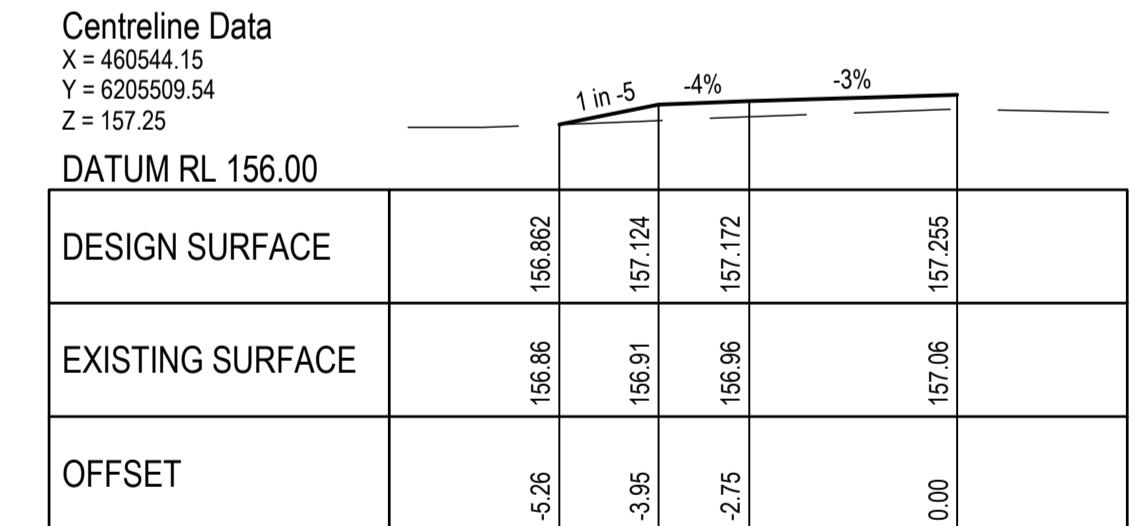
CHAINAGE 20.000



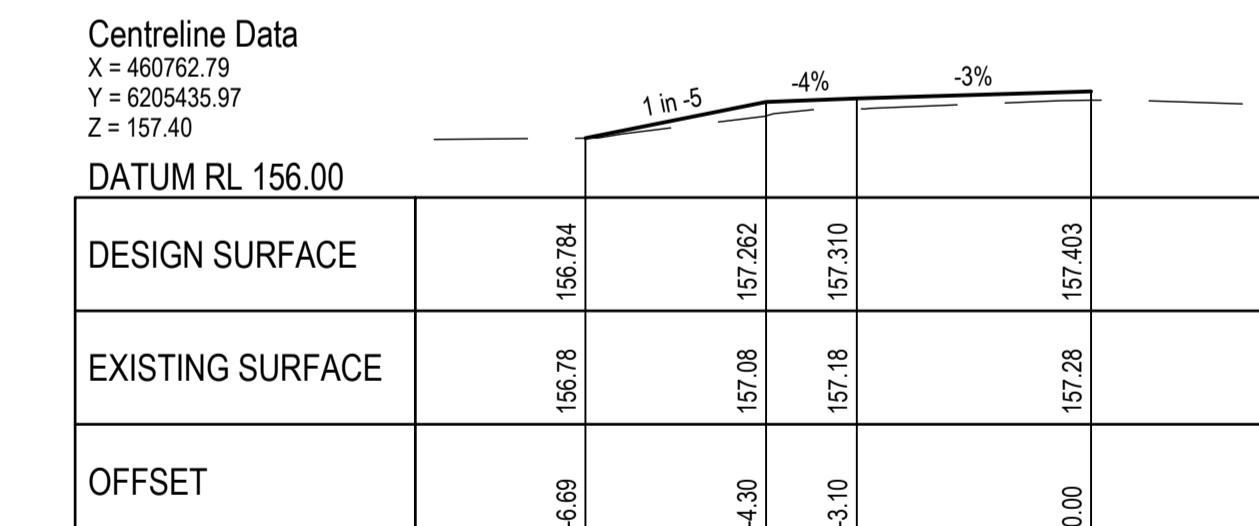
CHAINAGE 33.017



CHAINAGE 20.000



CHAINAGE 12.969



RS05 YARRAN STREET CROSS SECTIONS
SCALE H 1:100m V 1:100m

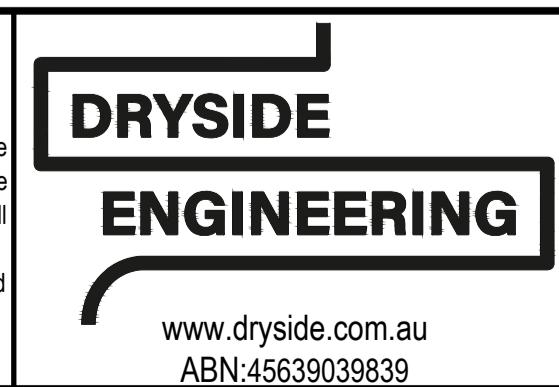
FOR CONSTRUCTION

A	12/03/2024	CONSTRUCTION ISSUE	AW	EH	EH	DES	VER	APP
REV								



0 1 2 4m
SCALE 1:100 @A1

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BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
ROAD CROSS SECTIONS
SHEET 2 OF 4

DRAWN
A.WARD
30/05/2023
AS SHOWN
DATE
SCALE
DATUM
MAHD
DESIGNED
A.WARD
25/05/2023
PROJECTION
GD94
SHEET SIZE
A1
DSE23011-1231
A

LEGEND - CROSS AND LONG SECTIONS		
	FINISHED SURFACE PROFILE	
	EXISTING SURFACE PROFILE	
	1% AEP FLOOD PROFILE	

Centreline Data
X = 460989.83
Y = 6205382.47
Z = 157.42

DATUM RL 156.50

DESIGN SURFACE	-4.99	157.22	157.221	-4%	-0.25%	-2.5%	-1%
EXISTING SURFACE	-4.30	157.32	157.360				
OFFSET	-3.10	157.43	157.408				

CHAINAGE 34.587

Centreline Data
X = 460986.24
Y = 6205368.62
Z = 157.52

DATUM RL 156.50

DESIGN SURFACE	-4.39	157.36	157.365	-4%	-3%	-3%	-4%
EXISTING SURFACE	-4.30	157.38	157.383				
OFFSET	-3.10	157.46	157.431				

CHAINAGE 20.000

Centreline Data
X = 460983.02
Y = 6205361.93
Z = 157.65

DATUM RL 156.50

DESIGN SURFACE	0.00	157.47	157.650	3.10	157.37	157.431	-3%
EXISTING SURFACE	4.30	157.37	157.509	4.30	157.33	157.383	-4%
OFFSET	5.66	157.24	157.237	4.89	157.27	157.266	

CHAINAGE 12.944

RS06 KOABA STREET CROSS SECTIONS

SCALE H 1:100m V 1:100m

Centreline Data
X = 461211.51
Y = 6205313.41
Z = 157.26Centreline Data
X = 461211.51
Y = 6205313.41
Z = 157.26

DATUM RL 156.50

DESIGN SURFACE	-4.30	157.32	157.306	-0.5%	-2%	-2.8%	-0.5%
EXISTING SURFACE	-4.31	157.32	157.324				
OFFSET	0.00	157.42	157.415				

CHAINAGE 39.795

Centreline Data
X = 461205.41
Y = 6205294.58
Z = 157.45

DATUM RL 156.50

DESIGN SURFACE	-3.36	157.2	157.198	-4%	-4%	-4%	-4%
EXISTING SURFACE	-3.95	157.2	157.199				
OFFSET	-2.75	157.19	157.205				

CHAINAGE 20.000

Centreline Data
X = 461203.14
Y = 6205287.54
Z = 157.68

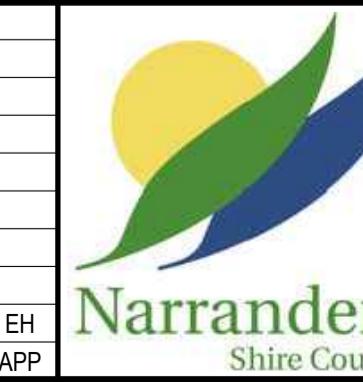
DATUM RL 156.50

DESIGN SURFACE	-4.35	157.16	157.161	-4%	-4%	-4%	-4%
EXISTING SURFACE	-3.95	157.17	157.206				
OFFSET	-2.75	157.21	157.344				

CHAINAGE 12.604

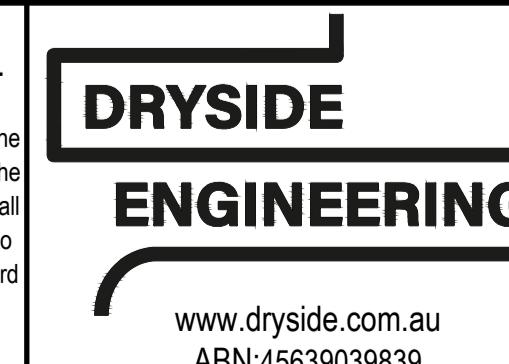
RS07 BOX STREET CROSS SECTIONS

SCALE H 1:100m V 1:100m



0 1 2 4m
SCALE 1:100 @A1

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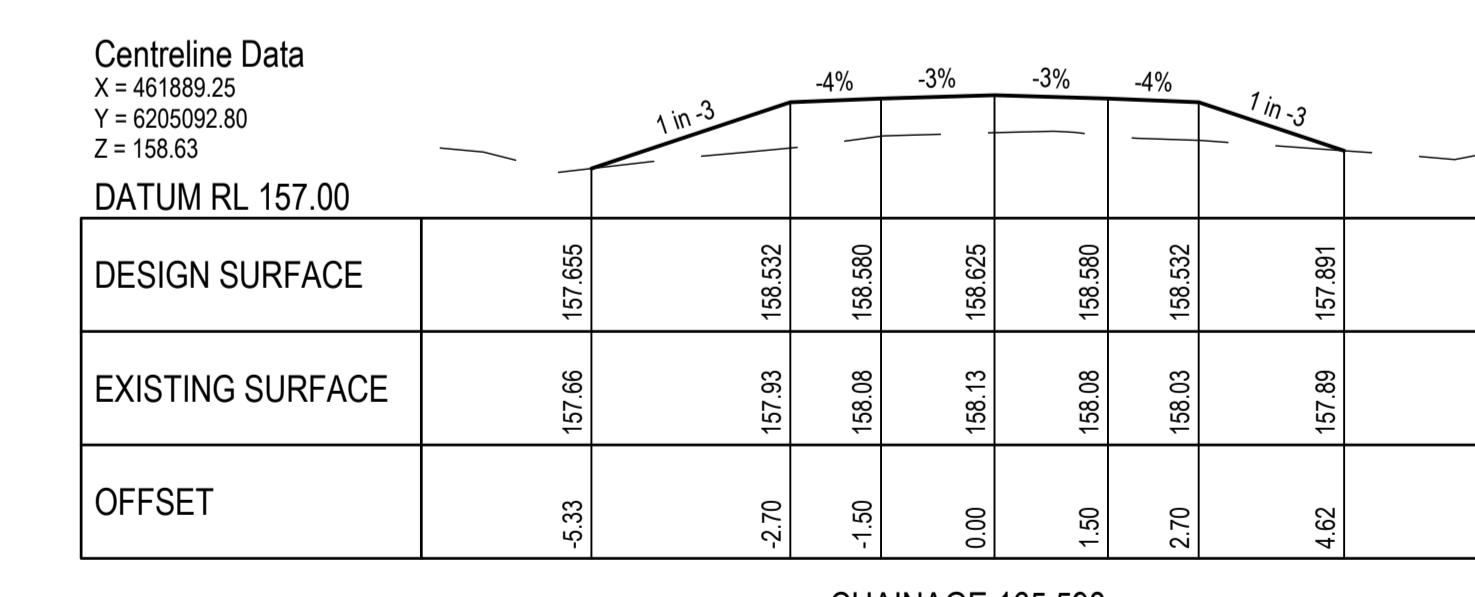
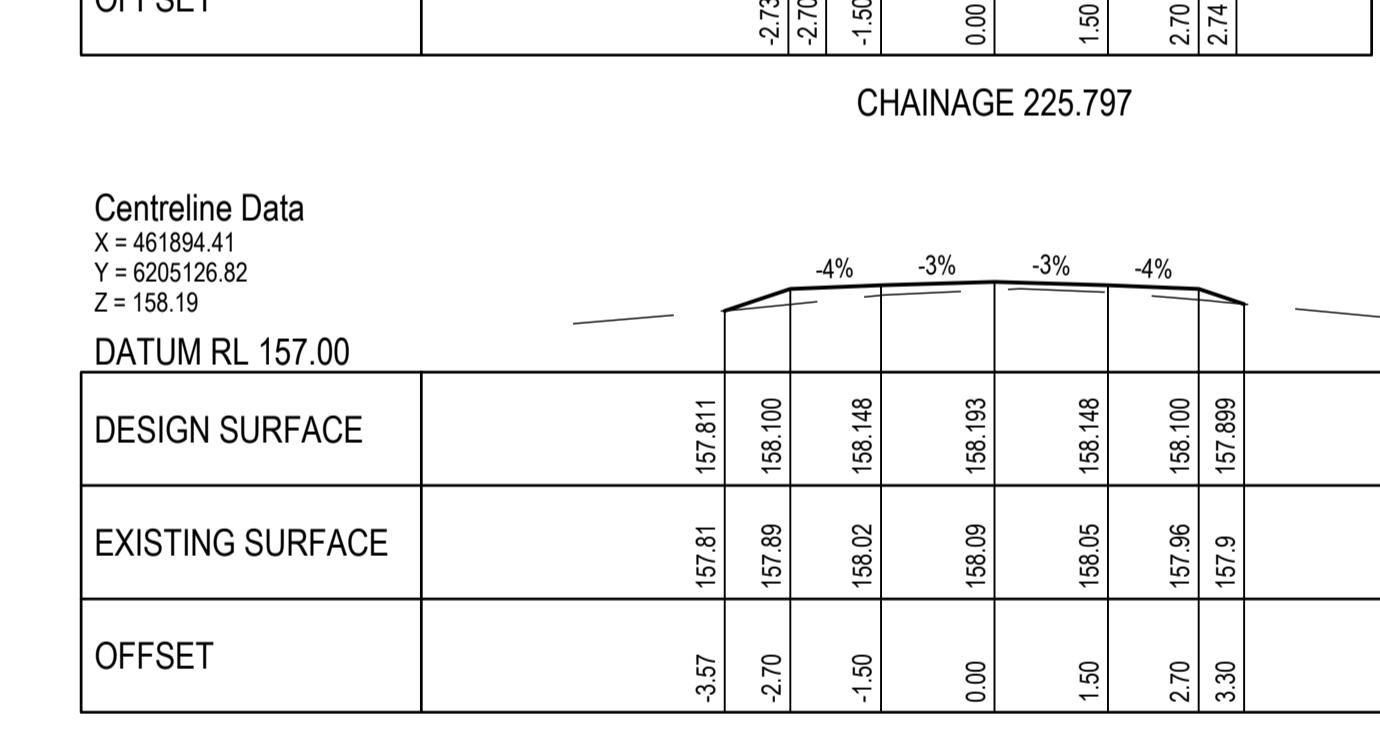
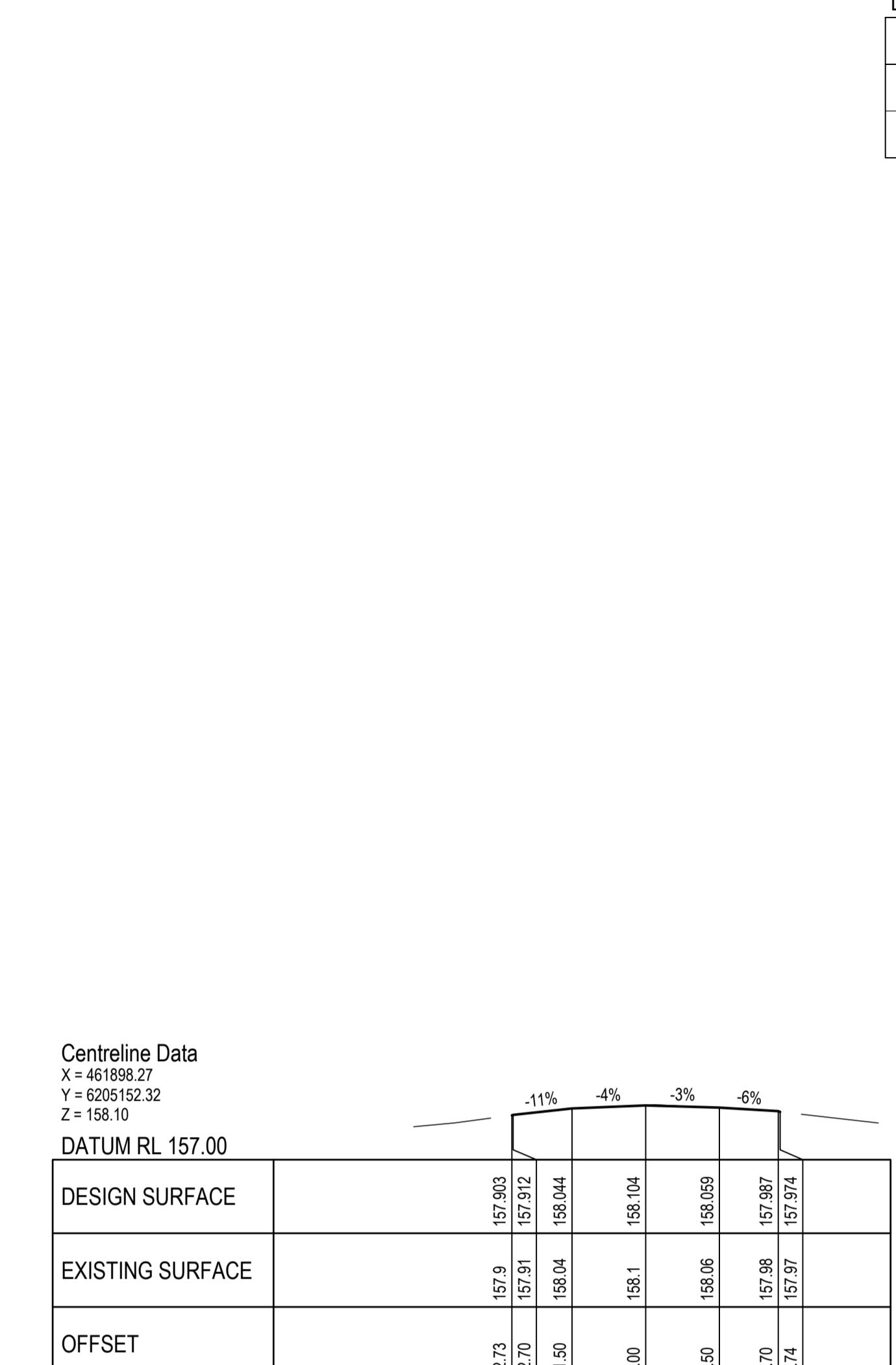
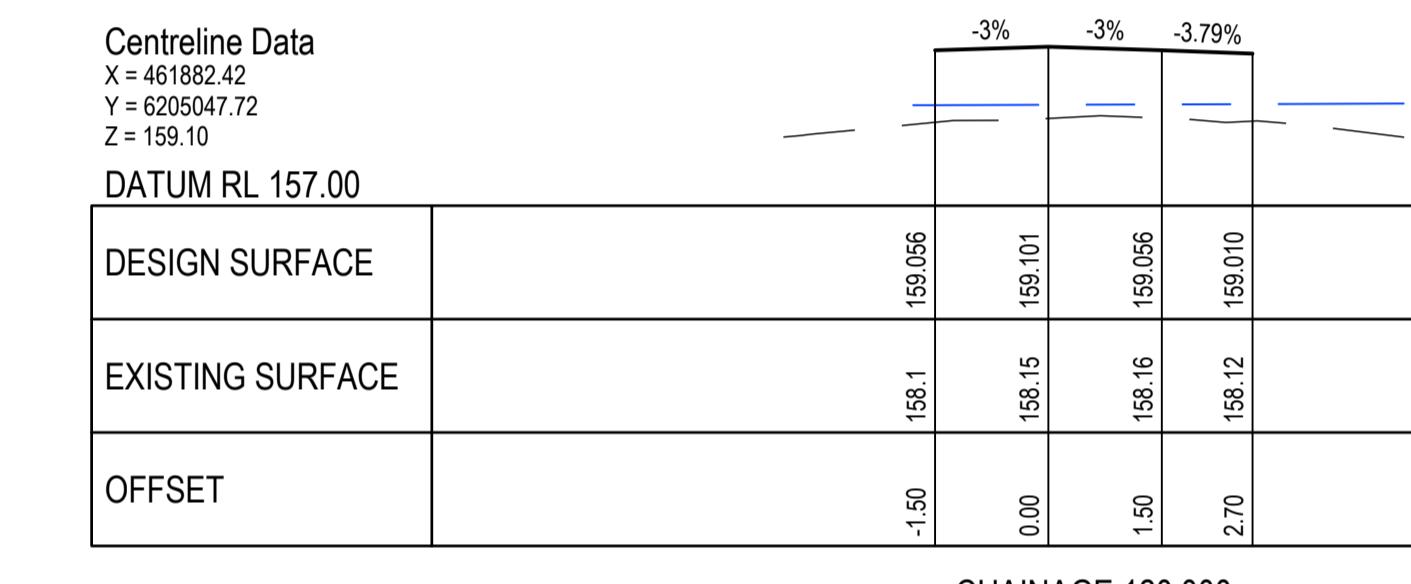
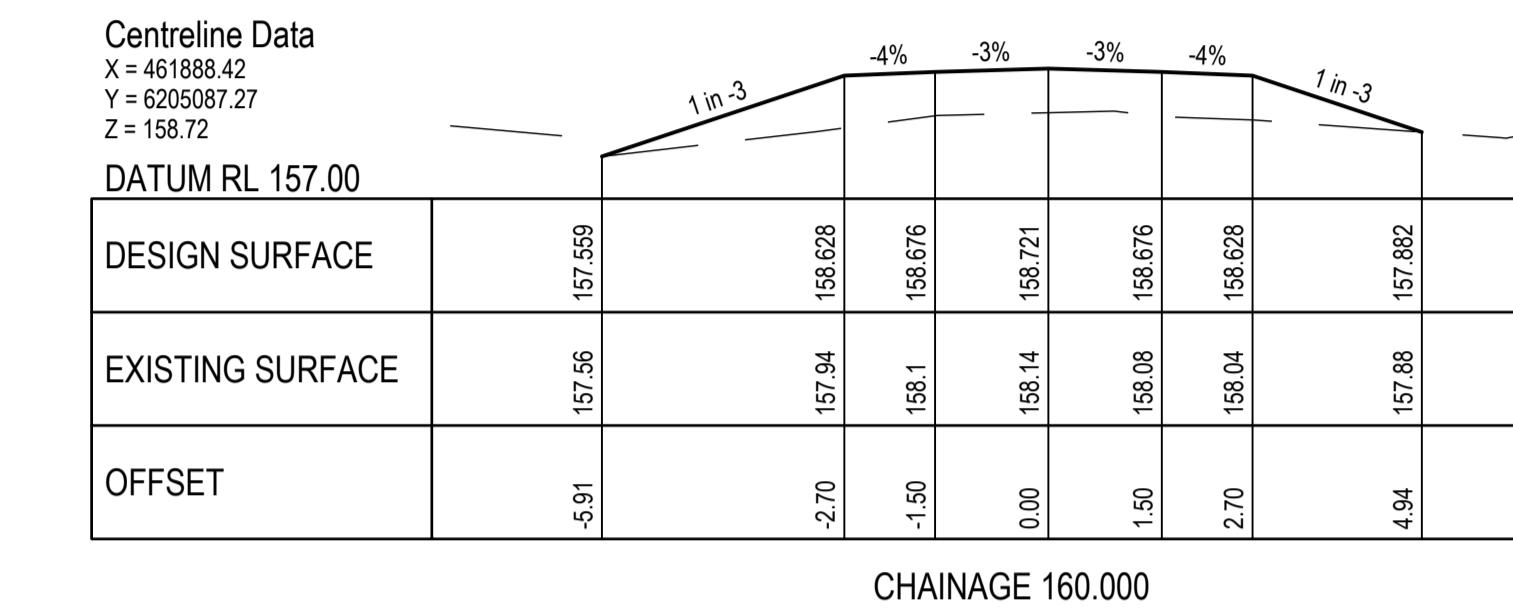
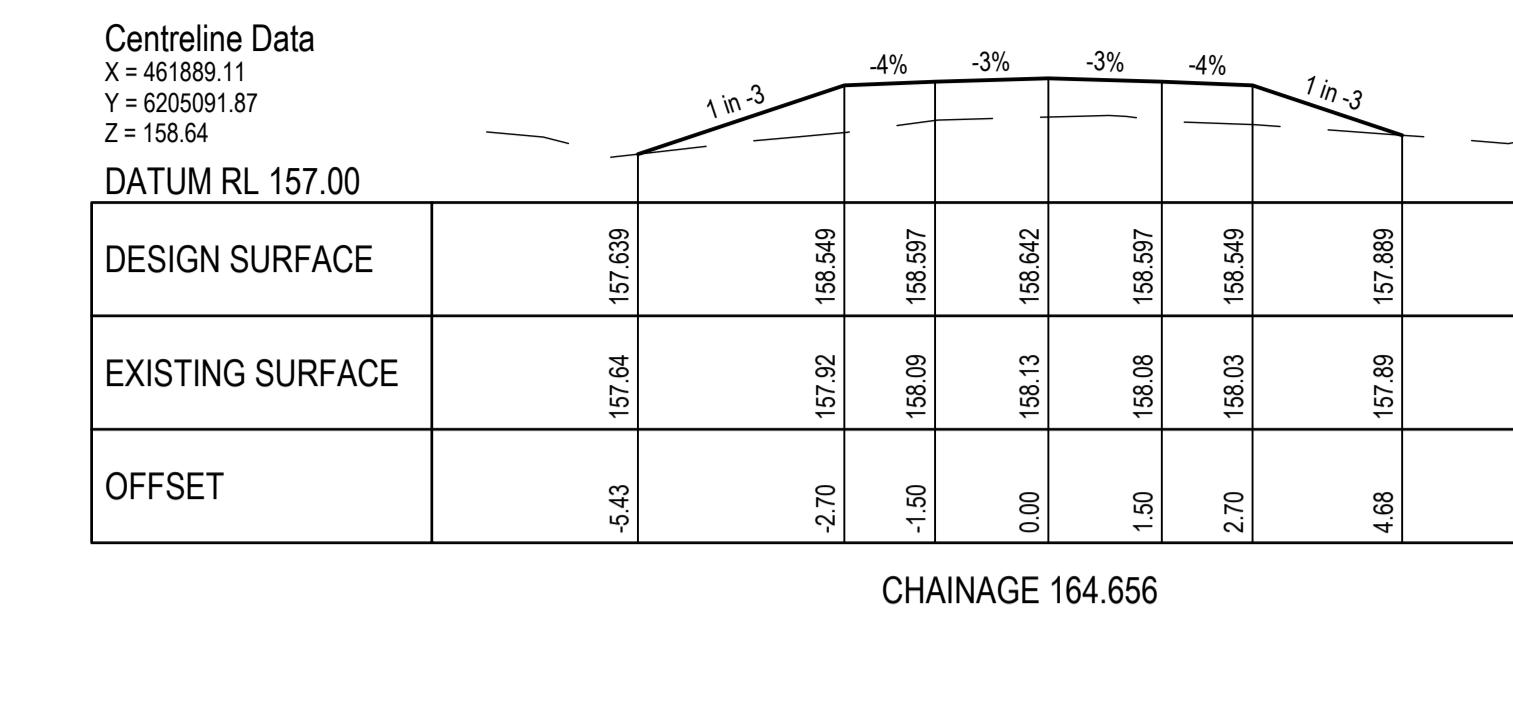
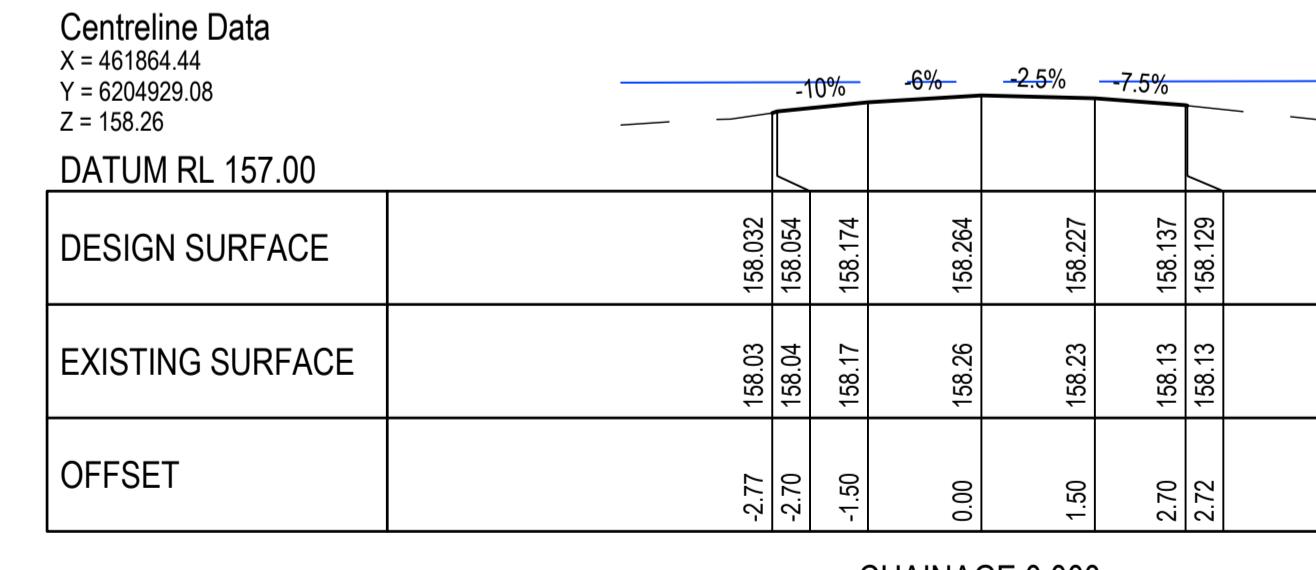
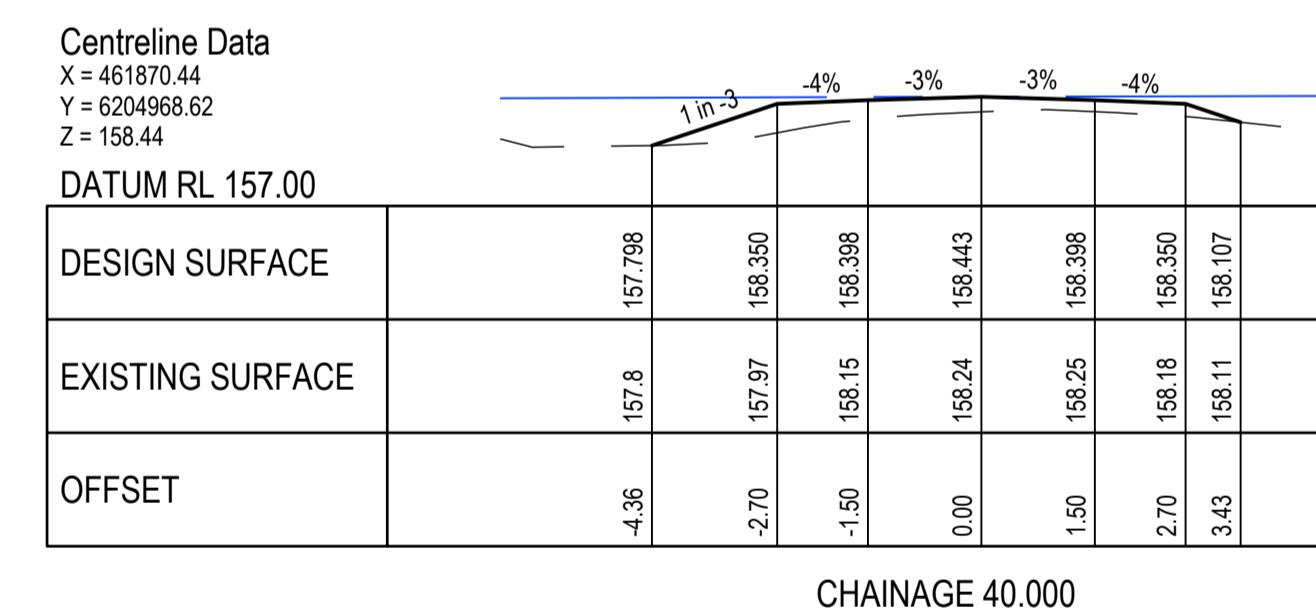
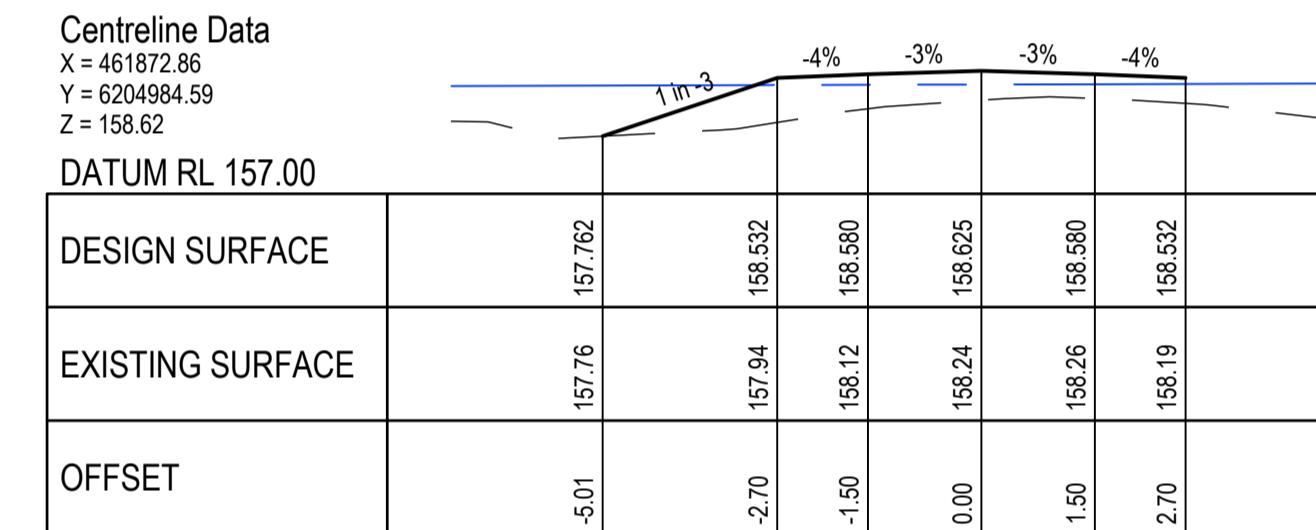
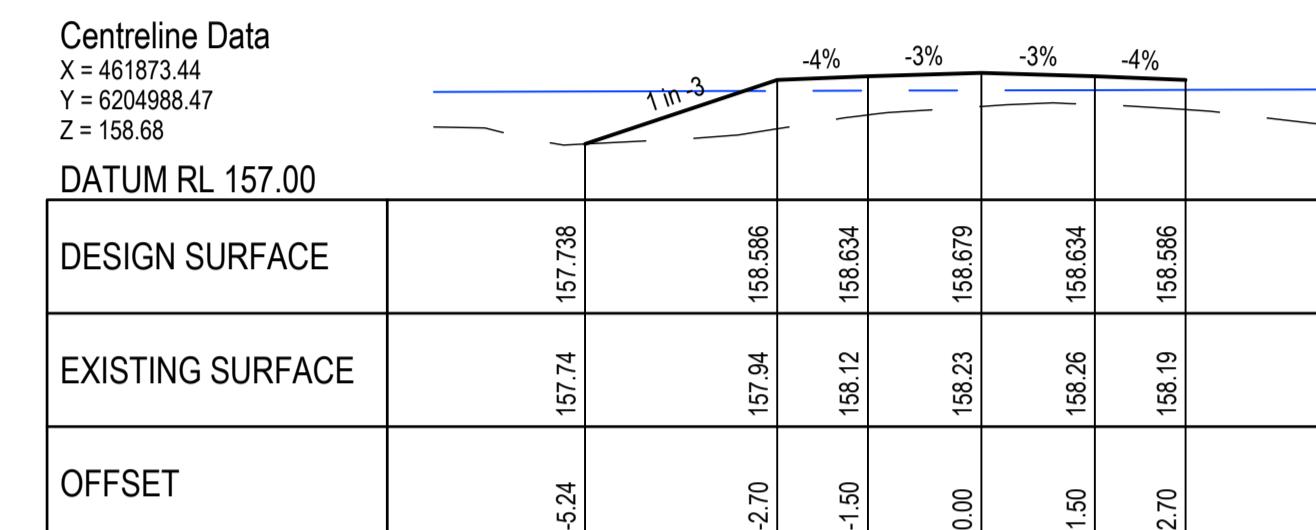
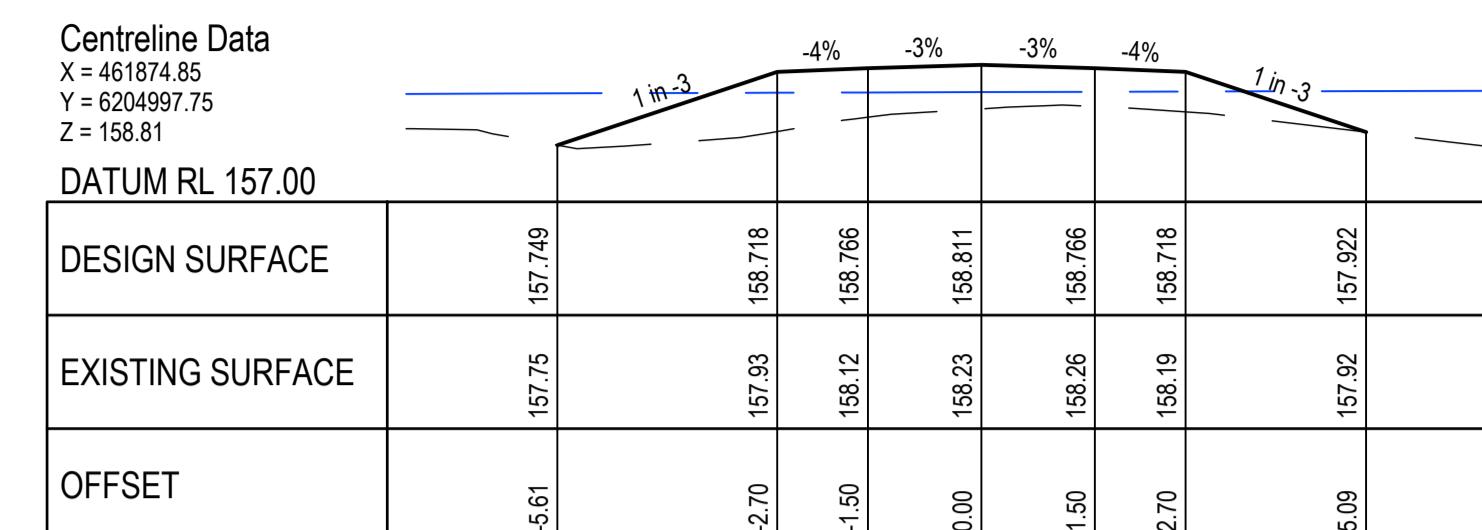


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12/03/2024

NARRANDERA SHIRE COUNCIL
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
ROAD CROSS SECTIONS
SHEET 3 OF 4

FOR CONSTRUCTION

DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1232			A



RS08 BARELLAN CEMETERY ROAD CROSS SECTIONS

SCALE H 1:100m V 1:100m

A 12/03/2024 CONSTRUCTION ISSUE

DESCRIPTION

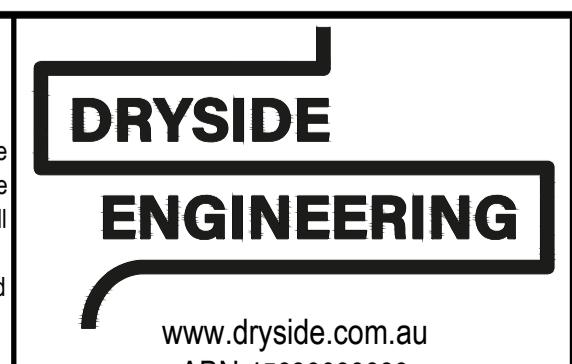
AW EH EH

DES VER APP



0 1 2 4m
SCALE 1:100 @A1

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BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
ROAD CROSS SECTIONS
SHEET 4 OF 4

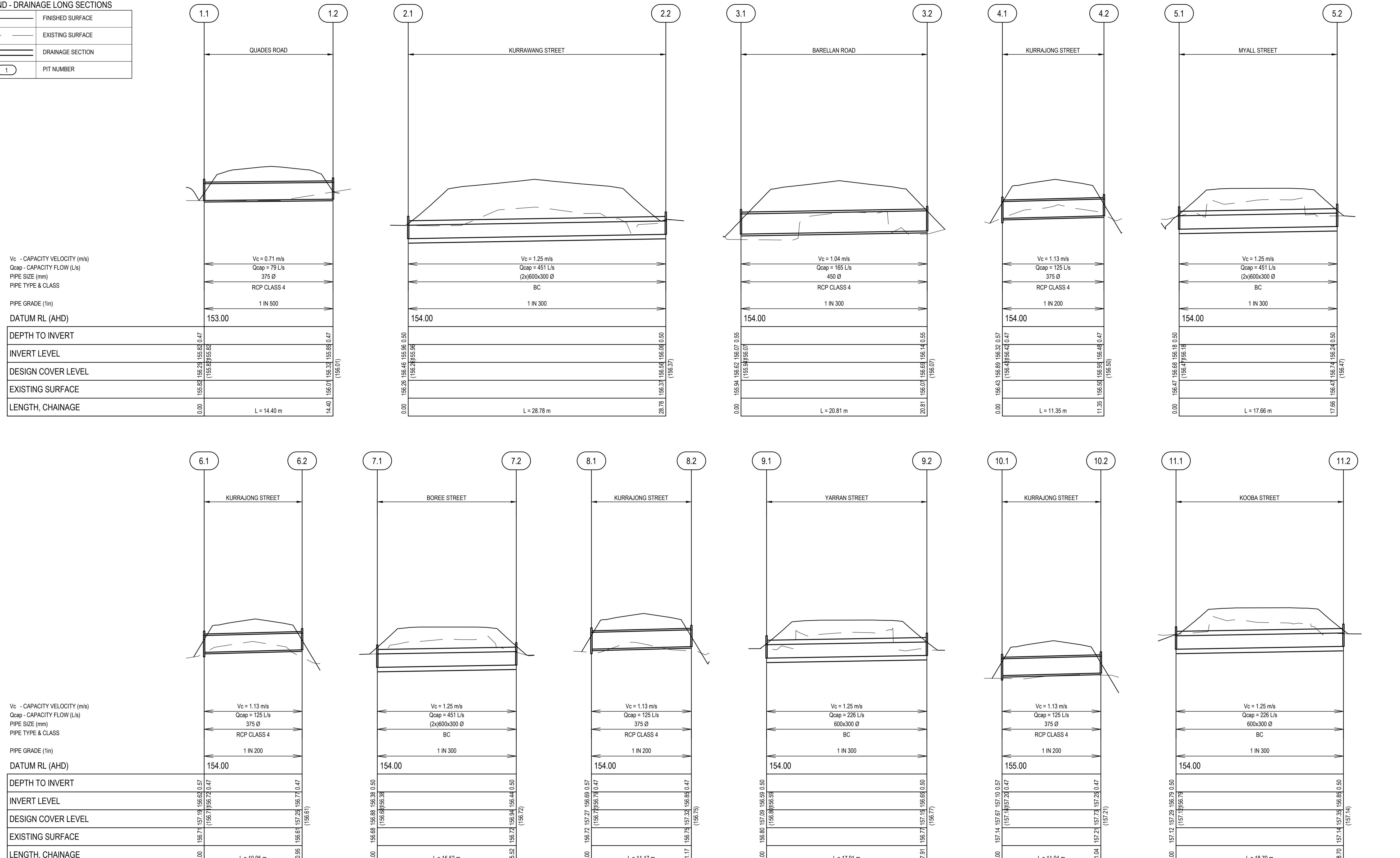
DRAWN
A.WARD DATE 30/05/2023 SCALE AS SHOWN DATUM MAHD
DESIGNED
A.WARD DATE 25/05/2023 PROJECTION GD94 SHEET SIZE A1
DSE23011-1233 A

FOR CONSTRUCTION

LEGEND - CROSS AND LONG SECTIONS	
	FINISHED SURFACE PROFILE
	EXISTING SURFACE PROFILE
	1% AEP FLOOD PROFILE

LEGEND - DRAINAGE LONG SECTIONS			
	FINISHED SURFACE		
	EXISTING SURFACE		
	DRAINAGE SECTION		
1	PIT NUMBER		

DATE PLOTED: 12 March 2024 9:59 AM BY: AARONWARD

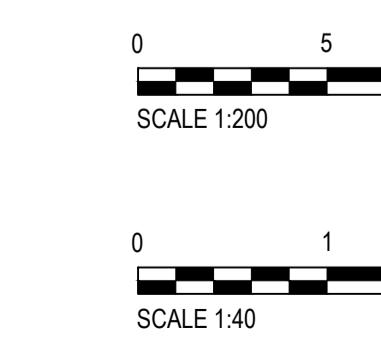
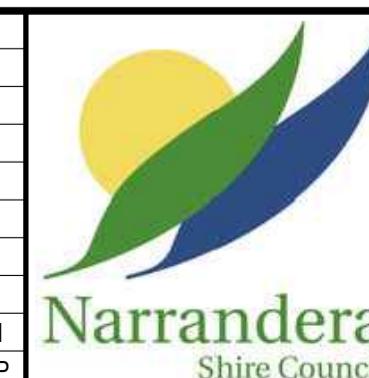


DRAINAGE LONGITUDINAL SECTIONS

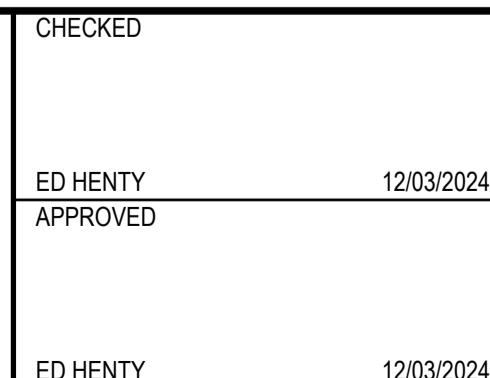
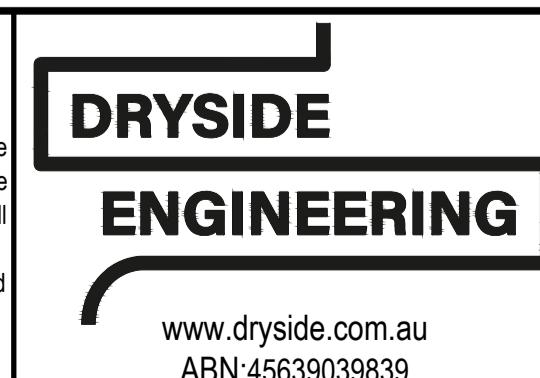
SCALE H 1:200 V 1:40

FOR CONSTRUCTION

REV	A	CONSTRUCTION ISSUE			AW	EH	EH
		DESCRIPTION	DES	VER			
A	12/03/2024						



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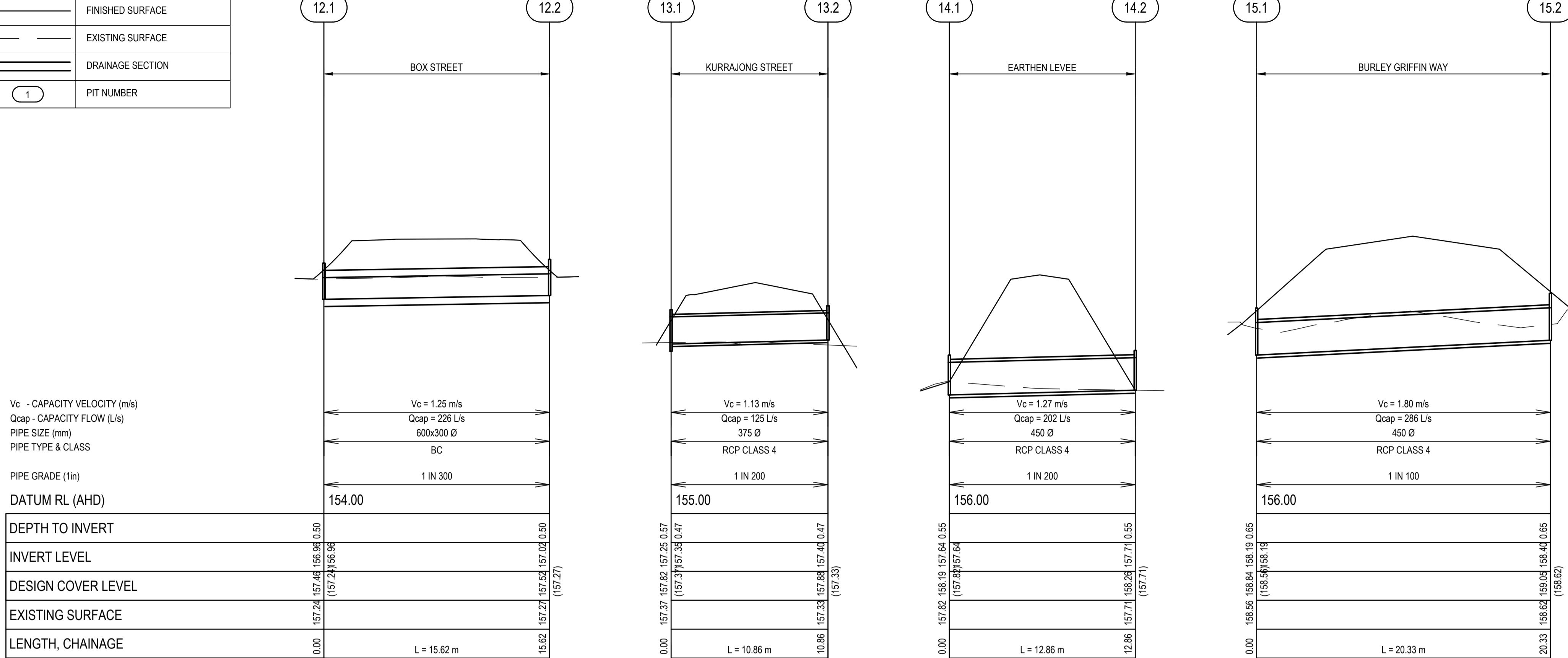


NARRANDERA SHIRE COUNCIL
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665
DETAILED DESIGN
DRAINAGE LONGITUDINAL SECTIONS
SHEET 1 OF 2

DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1250			A

LEGEND - DRAINAGE LONG SECTIONS

_____	FINISHED SURFACE
_____	EXISTING SURFACE
_____	DRAINAGE SECTION
1	PIT NUMBER



DRAINAGE LONGITUDINAL SECTIONS

SCALE H 1:200 V 1:40

PIT SCHEDULE

PIT NO	LOCATION		TYPE	INTERNAL		PIT COVER LEVEL	DEPTH	INLET		OUTLET		COMMENTS
	EASTING	NORTHING		WD	LEN			DIA	INV LEV	DIA	INV LEV	
1.1	459931.273	6205700.724	HEADWALL	-	-	155.818	0.00	375	155.818			INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE
1.2	459930.621	6205686.338	HEADWALL	-	-	156.322	0.48			375	155.847	INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE
2.1	460089.079	6205657.291	HEADWALL	-	-	156.465	0.50	(2x)600x300	155.965			INSTALL TWIN PRECAST HEADWALL TO SUIT 2No. 600x300 DRAINAGE BOX CULVERT
2.2	460116.355	6205648.102	HEADWALL	-	-	156.561	0.50			(2x)600x300	156.061	INSTALL TWIN PRECAST HEADWALL TO SUIT 2No. 600x300 DRAINAGE BOX CULVERT
3.1	460085.836	6205638.451	HEADWALL	-	-	156.617	0.55	450	156.067			INSTALL PRECAST HEADWALL TO SUIT 4500 DRAINAGE PIPE
3.2	460105.521	6205631.717	HEADWALL	-	-	156.686	0.55			450	156.136	INSTALL PRECAST HEADWALL TO SUIT 4500 DRAINAGE PIPE
4.1	460218.239	6205599.242	HEADWALL	-	-	156.893	0.58	375	156.418			INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE
4.2	460221.903	6205609.984	HEADWALL	-	-	156.950	0.48			375	156.475	INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE
5.1	460314.885	6205581.346	HEADWALL	-	-	156.677	0.50	(2x)600x300	156.177			INSTALL TWIN PRECAST HEADWALL TO SUIT 2No. 600x300 DRAINAGE BOX CULVERT
5.2	460331.618	6205575.710	HEADWALL	-	-	156.736	0.50			(2x)600x300	156.236	INSTALL TWIN PRECAST HEADWALL TO SUIT 2No. 600x300 DRAINAGE BOX CULVERT
6.1	460441.127	6205524.467	HEADWALL	-	-	157.195	0.58	375	156.720			INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE. HEADWALL TO BE FITTED CIVILMART FLUSH MOUNT FLOOD GATE AS PER TYPICAL DETAIL. HEADWALL TO ACCOMMODATE MOUNTING OF FLOOD GATE
6.2	460444.617	6205534.844	HEADWALL	-	-	157.250	0.48			375	156.775	INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE
7.1	460535.145	6205507.275	HEADWALL	-	-	156.884	0.50	(2x)600x300	156.384			INSTALL TWIN PRECAST HEADWALL TO SUIT 2No. 600x300 DRAINAGE BOX CULVERT
7.2	460549.856	6205502.318	HEADWALL	-	-	156.935	0.50			(2x)600x300	156.435	INSTALL TWIN PRECAST HEADWALL TO SUIT 2No. 600x300 DRAINAGE BOX CULVERT
8.1	460608.443	6205468.098	HEADWALL	-	-	157.266	0.58	375	156.791			INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE. HEADWALL TO BE FITTED CIVILMART FLUSH MOUNT FLOOD GATE AS PER TYPICAL DETAIL. HEADWALL TO ACCOMMODATE MOUNTING OF FLOOD GATE
8.2	460612.004	6205478.684	HEADWALL	-	-	157.321	0.48			375	156.846	INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE
9.1	460752.521	6205433.755	HEADWALL	-	-	157.090	0.50	600x300	156.590			INSTALL PRECAST HEADWALL TO SUIT 600x300 DRAINAGE BOX CULVERT
9.2	460769.501	6205428.059	HEADWALL	-	-	157.150	0.50			600x300	156.650	INSTALL PRECAST HEADWALL TO SUIT 600x300 DRAINAGE BOX CULVERT
10.1	460956.152	6205351.227	HEADWALL	-	-	157.675	0.58	375	157.200			INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE. HEADWALL TO BE FITTED CIVILMART FLUSH MOUNT FLOOD GATE AS PER TYPICAL DETAIL. HEADWALL TO ACCOMMODATE MOUNTING OF FLOOD GATE
10.2	460959.671	6205361.691	HEADWALL	-	-	157.730	0.48			375	157.255	INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE
11.1	460972.087	6205359.993	HEADWALL	-	-	157.289	0.50	600x300	156.789			INSTALL PRECAST HEADWALL TO SUIT 600x300 DRAINAGE BOX CULVERT
11.2	460989.817	6205354.038	HEADWALL	-	-	157.352	0.50			600x300	156.852	INSTALL PRECAST HEADWALL TO SUIT 600x300 DRAINAGE BOX CULVERT
12.1	461194.087	6205285.006	HEADWALL	-	-	157.464	0.50	600x300	156.964			INSTALL PRECAST HEADWALL TO SUIT 600x300 DRAINAGE BOX CULVERT
12.2	461208.893	6205280.029	HEADWALL	-	-	157.516	0.50			600x300	157.016	INSTALL PRECAST HEADWALL TO SUIT 600x300 DRAINAGE BOX CULVERT
13.1	461222.099	6205261.709	HEADWALL	-	-	157.821	0.58	375	157.346			INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE. HEADWALL TO BE FITTED CIVILMART FLUSH MOUNT FLOOD GATE AS PER TYPICAL DETAIL. HEADWALL TO ACCOMMODATE MOUNTING OF FLOOD GATE
13.2	461225.559	6205272.000	HEADWALL	-	-	157.875	0.48			375	157.400	INSTALL PRECAST HEADWALL TO SUIT 3750 DRAINAGE PIPE
14.1	461945.284	6205391.229	HEADWALL	-	-	158.192	0.55	450	157.642			INSTALL PRECAST HEADWALL TO SUIT 4500 DRAINAGE PIPE
14.2	461957.989	6205389.229	HEADWALL	-	-	158.256	0.55			450	157.706	INSTALL PRECAST HEADWALL TO SUIT 4500 DRAINAGE PIPE. HEADWALL TO BE FITTED WITH AWMA TLF PENSTOCK FOR PONDING RELIEF. HEADWALL TO ACCOMMODATE MOUNTING OF PENSTOCK
15.1	462737.393	6205525.324	HEADWALL	-	-	158.793	0.60	450	158.193			INSTALL PRECAST HEADWALL TO SUIT 4500 DRAINAGE PIPE
15.2	462743.973	6205544.556	HEADWALL	-	-	158.947	0.55			450	158.397	INSTALL PRECAST HEADWALL TO SUIT 4500 DRAINAGE PIPE

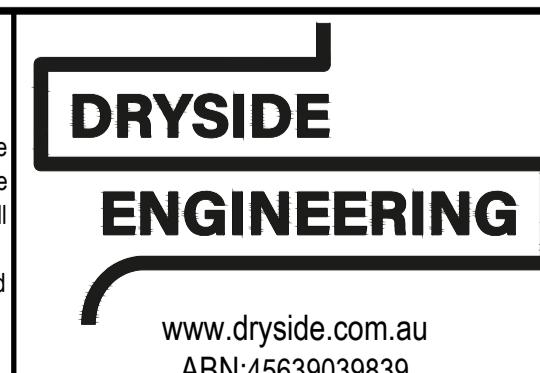
NOTES:

1. ALL HEADWALLS ARE TO BE TO TfNSW (TRANSPORT FOR NEW SOUTH WALES) STANDARDS UNLESS NOTED OTHERWISE.
 2. ALL SETOUT IS TO THE CENTRE OF THE BULKHEAD OF THE HEADWALL
 3. CONTRACTOR TO ENSURE HEADWALLS HAVE ENOUGH DEPTH BETWEEN PIPE INVERT AND APRON LEVEL TO ACCOMMODATE FLAP VALVES WHERE NOMINATED
 4. ALL PRECAST HEADWALLS TO CONFORM TO TRANSPORT FOR NEW SOUTH WALES STANDARD DRAWINGS AND SPECIFICATIONS



The image contains two scale bars. The top scale bar is labeled 'SCALE 1:200' and has numerical markings at 0 and 5. The bottom scale bar is labeled 'SCALE 1:40' and also has numerical markings at 0 and 1. Both scale bars feature a pattern of alternating black and white squares along their length.

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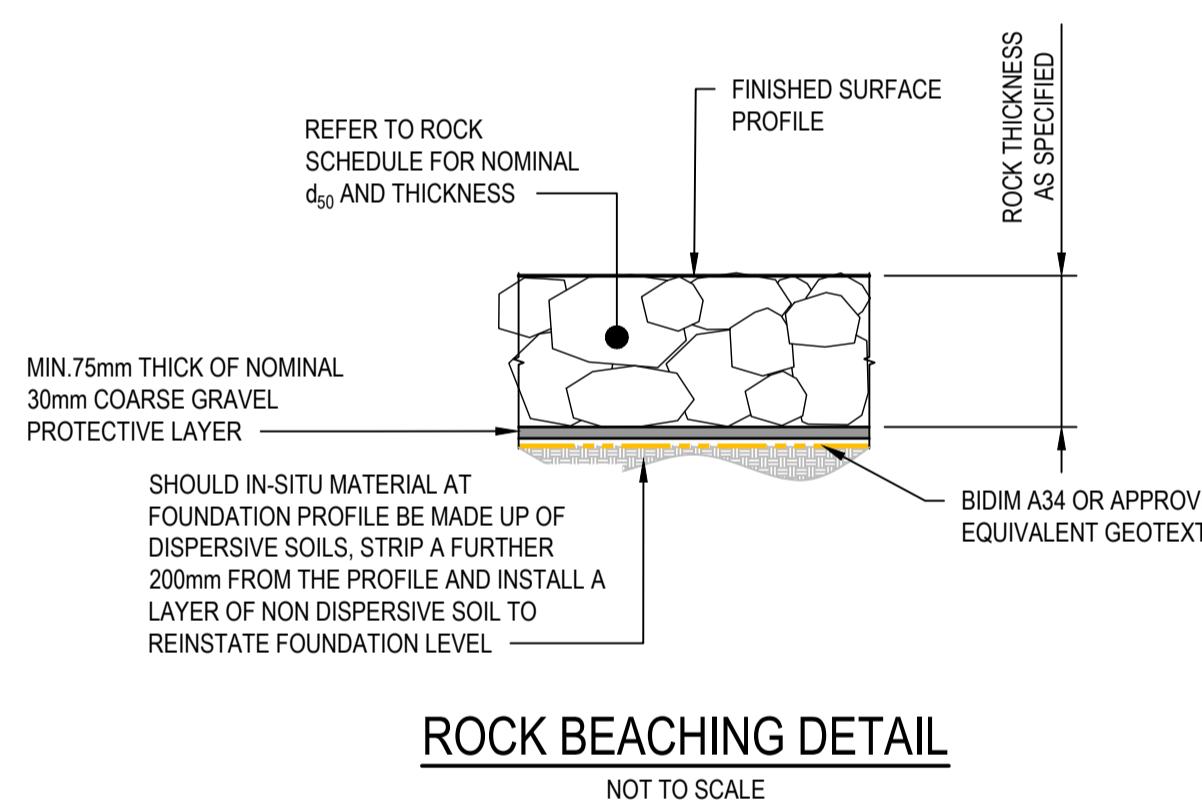
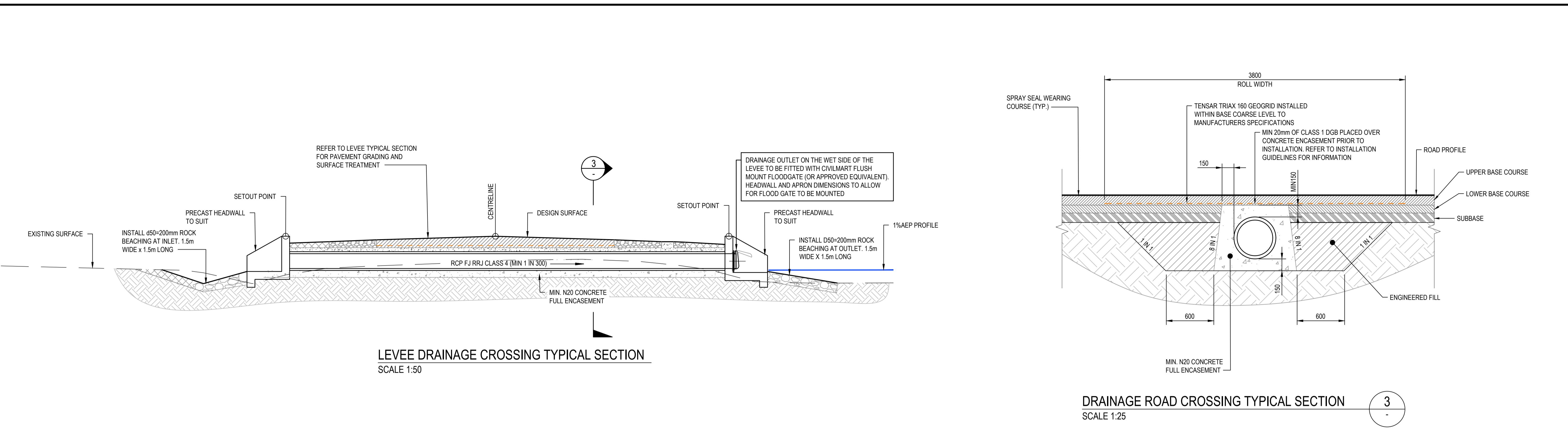
**BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665**

**DETAILED DESIGN
DRAINAGE LONGITUDINAL SECTIONS AND PIT SCHEDULE**

SHEET 2 OF 2

FOR CONSTRUCTION

FOR CONSTRUCTION			
DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1251			A



ROCK WORK SCHEDULE			
LOCATION	DIAMETER (mm)	THICKNESS OF ROCK (mm)	COMMENT
RB1	d ₅₀ = 100	200	REFER TO LAYOUT PLANS FOR LENGTH OF ROCK BEACHING
RB2 (HEADWALLS)	d ₅₀ = 200	400	ROCK PADS LENGTH AT INLETS AND OUTLETS 1.5m WIDE x 1.5m LONG

ROCK LINING SPECIFICATION

ROCK SELECTION

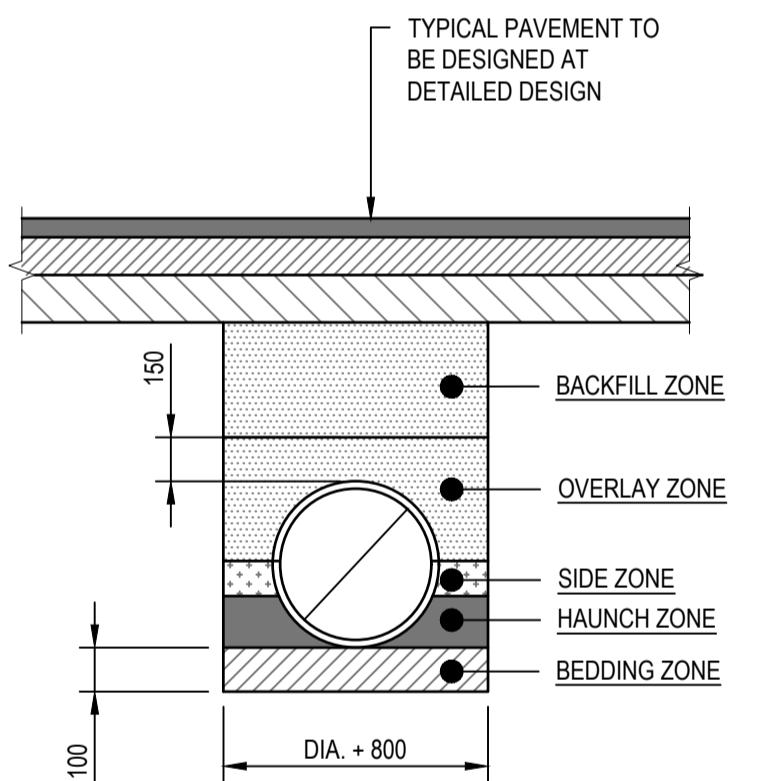
- THE SELECTION OF ROCK SHALL COMPLY WITH THESE NOTES, TABLES AND DRAWING HEREIN. THIS REQUIREMENT APPLIES TO BOTH IMPORTED ROCK AND IN-SITU ROCK.
- INDIVIDUAL ROCKS SHALL BE FREE FROM CRACKS AND, CLEAVAGE PLANES, SEAMS AND DEFECTS WHICH WOULD RESULT IN THE BREAKDOWN OF ROCK IN WATER ENVIRONMENTS.
- NOMINAL ROCK SHALL COMPLY TO THE FOLLOWING CRITERIA:
 - ROCKS SHALL BE ROUGH, ANGULAR, DURABLE AND RESISTANT TO WEATHERING
 - ROCKS ARE TO BE HARD AND SOUND ROCK WITH SHARP EDGES. ROUND AND WEATHERED ROCK IS SIGNIFICANTLY LESS STABLE THAN ANGULAR FRACUTRED ROCK.
 - ROCK SIZES AND THICKNESS ARE BASED ON THE NOMINAL ROCK DENSITIES AND SIZE DISTRIBUTIONS STATED IN ROCK SCHEDULE TABLE
 - NO ROCK SIZE SHOULD HAVE A DIMENSION RATIO OF EXCEEDING 2.5 TIMES ITS BREADTH AND OR THICKNESS
 - ROCK SHOULD NOT BE SINGLE SIZED AND INSTEAD BE A WELL GRADED MIXTURE OF SELECTED SUCH THAT ALL INTERSTICES ARE FILLED WITH ROCKS OF PROGRESSIVELY SMALLER SIZE
 - THE MAXIMUM ROCK SIZE SHALL NOT EXCEED 2 TIMES THE d₅₀ ROCK SIZE

ROCK INSTALLATION

- ROCKS SHALL BE WEDGED AND LOCKED TOGETHER SUCH THAT THEY ARE UNABLE TO SHIFT OR MOVE
- INSTALLATION OF ROCKS SHALL BE DONE THROUGH PLACEMENT AND NOT DROPPED OR ROLLED. UNSUITABLE INSTALLATION TECHNIQUES CAN DAMAGE THE ROCKS, PROMOTE SEGREGATION OF THE VARIOUS GRADES OF ROCK AND PRODUCE FINES WHICH SUBJECT THE WATERWAY TO FINES CONTAMINATION.

BACKING MATERIAL

- THE ROCK IS TO BE INSTALLED ON A BACKING / BEDDING LAYER OF FILTER ROCK AND GEOTEXTILE FILTER CLOTH
- THE GEOTEXTILE FILTER CLOTH IS TO BE OF SUFFICIENT STRENGTH (MIN BIDIM A34) AND INSTALLED WITH SUITABLE OVERLAP TO WITHSTAND PLACEMENT OF THE ROCK



H3 PIPE TRENCH DETAIL

NTS

NOTES:

- REFER TO TRANSPORT NSW R0240-01 STANDARD DRAWING AND IC-QA-R11 SPECIFICATION FOR INFORMATION

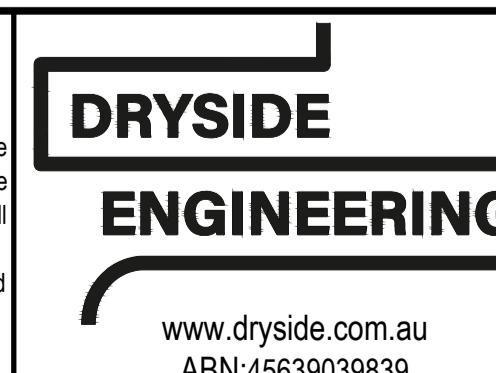
FOR CONSTRUCTION

		CONSTRUCTION ISSUE	AW	EH
REV	DATE	DESCRIPTION	DES	VER APP
A	12/03/2024			



0 0.5 1m
SCALE 1:25 @A1
0 1 2m
SCALE 1:50 @A1

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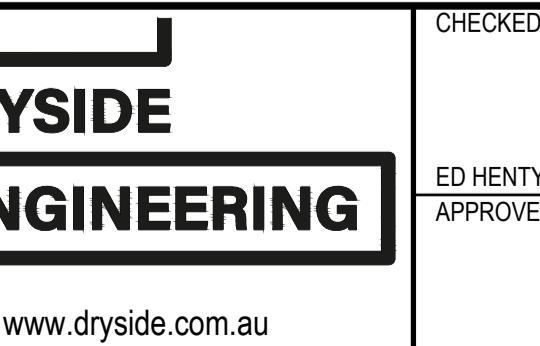
NARRANDERA SHIRE COUNCIL
BARELLAN LEVEE DESIGN
KURRAJONG ST AND BARELLAN CEMETERY RD
BARELLAN, NSW 2665

DETAILED DESIGN
DRAINAGE TYPICAL DETAILS

DRAWN A.WARD	DATE 30/05/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 25/05/2023	PROJECTION GD94	SHEET SIZE A1
DSE23011-1253		A	

HORIZONTAL ALIGNMENT REPORT FOR RS01 - KURRAJONG STREET

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BARELLAN LEVEE DESIGN

KURRAJONG ST AND BARELLAN CEMETERY R

BARELLAN, NSW 2665

DETAILED DESIGN

SETOUT REPORTS

SHOOT 1 OF 2

FOR CONSTRUCTION

HORIZONTAL ALIGNMENT REPORT FOR RS02 - BARELLAN ROAD/KURRAWANG STREET

POINT TYPE	CHAINAGE	COORDINATES		BEARING	RADIUS
		EASTING	NORTHING	RL	DEG MIN SEC
STRAIGHT (START ALN)	0.000	460070.110	6205559.827	156.429	19°11'10.55"
STRAIGHT	40.000	460083.255	6205597.605	156.710	19°11'10.55"
STRAIGHT	80.000	460096.401	6205635.383	157.264	19°11'10.55"
STRAIGHT	120.000	460109.547	6205673.161	157.122	19°11'10.55"
STRAIGHT	160.000	460122.692	6205710.940	156.563	19°11'10.55"
STRAIGHT (END ALN)	185.289	460131.003	6205734.824	156.499	19°11'10.55"

HORIZONTAL ALIGNMENT REPORT FOR RS08 - BARELLAN CEMETERY ROAD

POINT TYPE	CHAINAGE	COORDINATES		BEARING	RADIUS
		EASTING	NORTHING	RL	DEG MIN SEC
STRAIGHT (START ALN)	0.000	461864.444	6204929.076	158.264	8°36'59.60"
STRAIGHT	40.000	461870.437	6204968.625	158.443	8°36'59.60"
STRAIGHT	80.000	461876.429	6205008.173	158.943	8°36'59.60"
STRAIGHT	120.000	461882.422	6205047.722	159.101	8°36'59.60"
STRAIGHT	160.000	461888.415	6205087.270	158.721	8°36'59.60"
STRAIGHT	200.000	461894.408	6205126.819	158.193	8°36'59.60"
STRAIGHT (END ALN)	225.797	461898.273	6205152.324	158.104	8°36'59.60"

HORIZONTAL ALIGNMENT REPORT FOR RS03 - MYALL STREET

POINT TYPE	CHAINAGE	COORDINATES		BEARING	RADIUS
		EASTING	NORTHING	RL	DEG MIN SEC
STRAIGHT (START ALN)	0.000	460320.978	6205570.916	157.370	18°22'57.02"
STRAIGHT	10.000	460324.132	6205580.406	157.115	18°22'57.02"
STRAIGHT	20.000	460327.286	6205589.896	156.964	18°22'57.02"
STRAIGHT	30.000	460330.439	6205599.386	156.912	18°22'57.02"
STRAIGHT (END ALN)	33.007	460331.387	6205602.239	156.916	18°22'57.02"

HORIZONTAL ALIGNMENT REPORT FOR RS09 - BURLEY GRIFFIN WAY

POINT TYPE	CHAINAGE	COORDINATES		BEARING	RADIUS
		EASTING	NORTHING	RL	DEG MIN SEC
STRAIGHT (START ALN)	0.000	462519.255	6205610.347	158.187	10°38'59.62"
STRAIGHT	40.000	462557.154	6205597.555	158.277	10°38'59.62"
STRAIGHT	80.000	462595.054	6205584.764	158.547	10°38'59.62"
STRAIGHT	120.000	462632.953	6205571.972	158.973	10°38'59.62"
STRAIGHT	160.000	462670.853	6205559.181	159.416	10°38'59.62"
STRAIGHT	200.000	462708.753	6205546.390	159.729	10°38'59.62"
STRAIGHT	240.000	462746.652	6205533.598	159.842	10°38'59.62"
STRAIGHT	280.000	462784.552	6205520.807	159.758	10°38'59.62"
STRAIGHT	320.000	462822.451	6205508.016	159.474	10°38'59.62"
STRAIGHT	360.000	462860.351	6205495.224	159.060	10°38'59.62"
STRAIGHT	400.000	462898.251	6205482.433	158.810	10°38'59.62"
STRAIGHT (END ALN)	431.953	462928.526	6205472.215	158.755	10°38'59.62"

HORIZONTAL ALIGNMENT REPORT FOR RS04 - BOREE STREET

POINT TYPE	CHAINAGE	COORDINATES		BEARING	RADIUS
		EASTING	NORTHING	RL	DEG MIN SEC
STRAIGHT (START ALN)	0.000	460539.989	6205497.262	157.542	18°43'42.45"
STRAIGHT	10.000	460543.200	6205506.733	157.306	18°43'42.45"
STRAIGHT	20.000	460546.411	6205516.203	157.158	18°43'42.45"
STRAIGHT	30.000	460549.622	6205525.674	157.081	18°43'42.45"
STRAIGHT (END ALN)	33.023	460550.592	6205528.537	157.072	18°43'42.45"

HORIZONTAL ALIGNMENT REPORT FOR RS05 - YARRAN STREET

POINT TYPE	CHAINAGE	COORDINATES		BEARING	RADIUS
		EASTING	NORTHING	RL	DEG MIN SEC
STRAIGHT (START ALN)	0.000	460758.605	6205423.741	157.688	18°54'52.11"
STRAIGHT	10.000	460761.846	6205433.201	157.453	18°54'52.11"
STRAIGHT	20.000	460765.088	6205442.661	157.305	18°54'52.11"
STRAIGHT	30.000	460768.330	6205452.121	157.225	18°54'52.11"
STRAIGHT (END ALN)	33.017	460769.308	6205454.975	157.214	18°54'52.11"

HORIZONTAL ALIGNMENT REPORT FOR DW07 - HAVESTER ACCESS

POINT TYPE	CHAINAGE	COORDINATES		BEARING	RADIUS
		EASTING	NORTHING	RL	DEG MIN SEC
STRAIGHT (START ALN)	0.000	462167.474	6205431.891	157.858	188°07'30.00"
STRAIGHT	10.000	462166.061	6205421.991	158.862	188°07'30.00"
STRAIGHT	20.000	462164.647	6205412.091	159.153	188°07'30.00"
STRAIGHT	30.000	462163.234	6205402.192	158.147	188°07'30.00"
STRAIGHT (END ALN)	32.821	462162.835	6205399.400	157.863	188°07'30.00"

HORIZONTAL ALIGNMENT REPORT FOR RS06 - KOABA STREET

POINT TYPE	CHAINAGE	COORDINATES		BEARING	RADIUS
		EASTING	NORTHING	RL	DEG MIN SEC
STRAIGHT (START ALN)	0.000	460978.947	6205349.639	158.000	18°20'38.99"
STRAIGHT	10.000	460982.094	6205359.130	157.717	18°20'38.99"
STRAIGHT	20.000	460985.241	6205368.622	157.524	18°20'38.99"
STRAIGHT	30.000	460988.389	6205378.114	157.428	18°