

DA ONLY - NOT FOR CONSTRUCTION

HIGHFIELDS ESTATE

ALMOND STREET, DENMAN

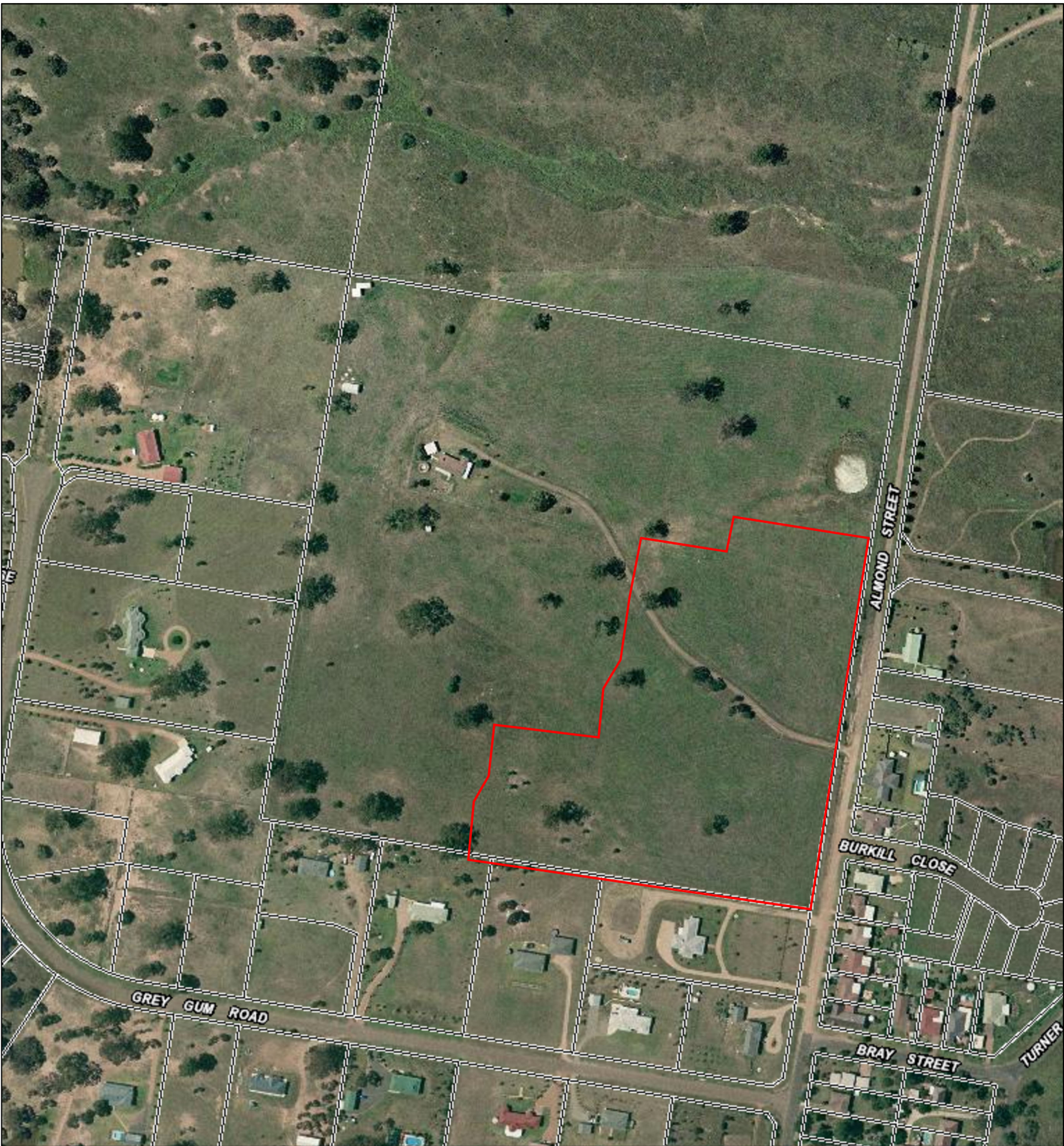
STAGE 2-5 CONCEPT DESIGN CIVIL WORKS ROADS AND DRAINAGE

CLIENT: HIGHFIELDS PTY LTD

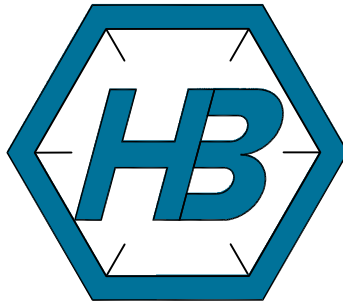
STAGE 2-5

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- SHEET 18 - LONGITUDINAL SECTIONS - STORMWATER LINES 19 TO 25
- SHEET 19 - CATCHMENT AREAS

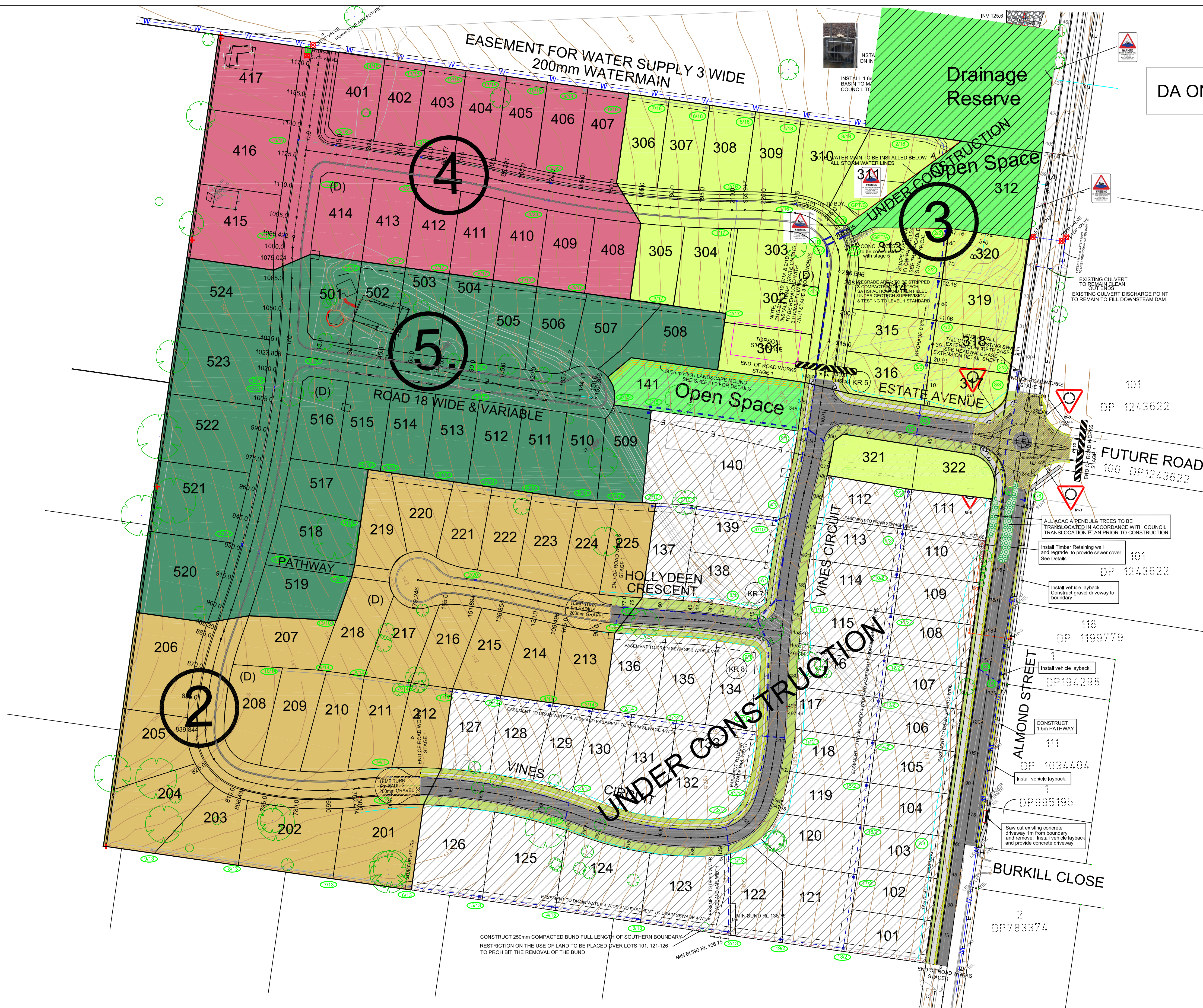
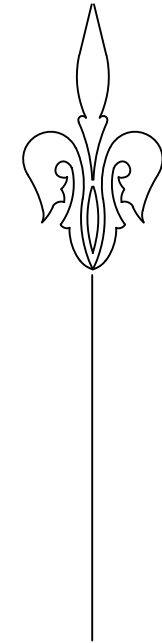


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REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN
Surveying the Hunter since 1920



Ph: 02 65432475 Email: office@hbsurveys.com.au
PO BOX 432, SCONE, NSW, 2337

Version No.	Details	Date
A	CONCEPT DESIGN FOR DA	18/01/2024
		A



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GENERAL ARRANGEMENT PLAN
HIGHFIELDS, DENMAN
STAGE 2-5 CONCEPT DESIGN

REV: A

H.SCALE 1:1000
VERT. SCALE
D.A.T.U.M. AHD
CONTOUR INTERVAL 0.5m
Michael Cole
MICHAEL COLE Registered Land Surveyor

CLIENT: HIGHFIELDS PTY LIMITED

DATE
18.01.2024

FILE
216218_2-5 CON DES

PLAN ISSUE

A DA - CONCEPT DESIGN

LGA: MUSWELLBROOK

PARISH: DENMAN

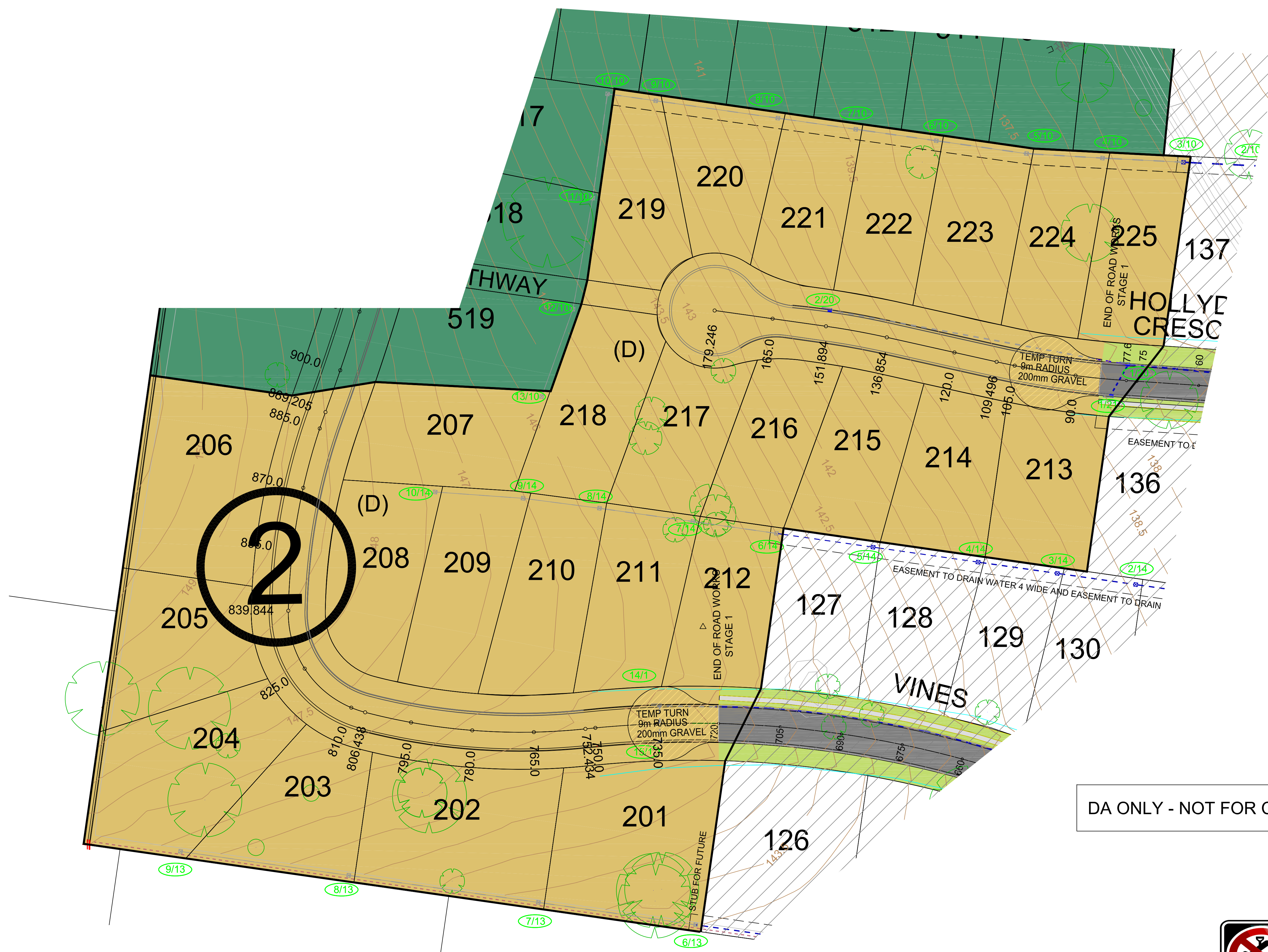
COUNTY: BRISBANE

SHEET

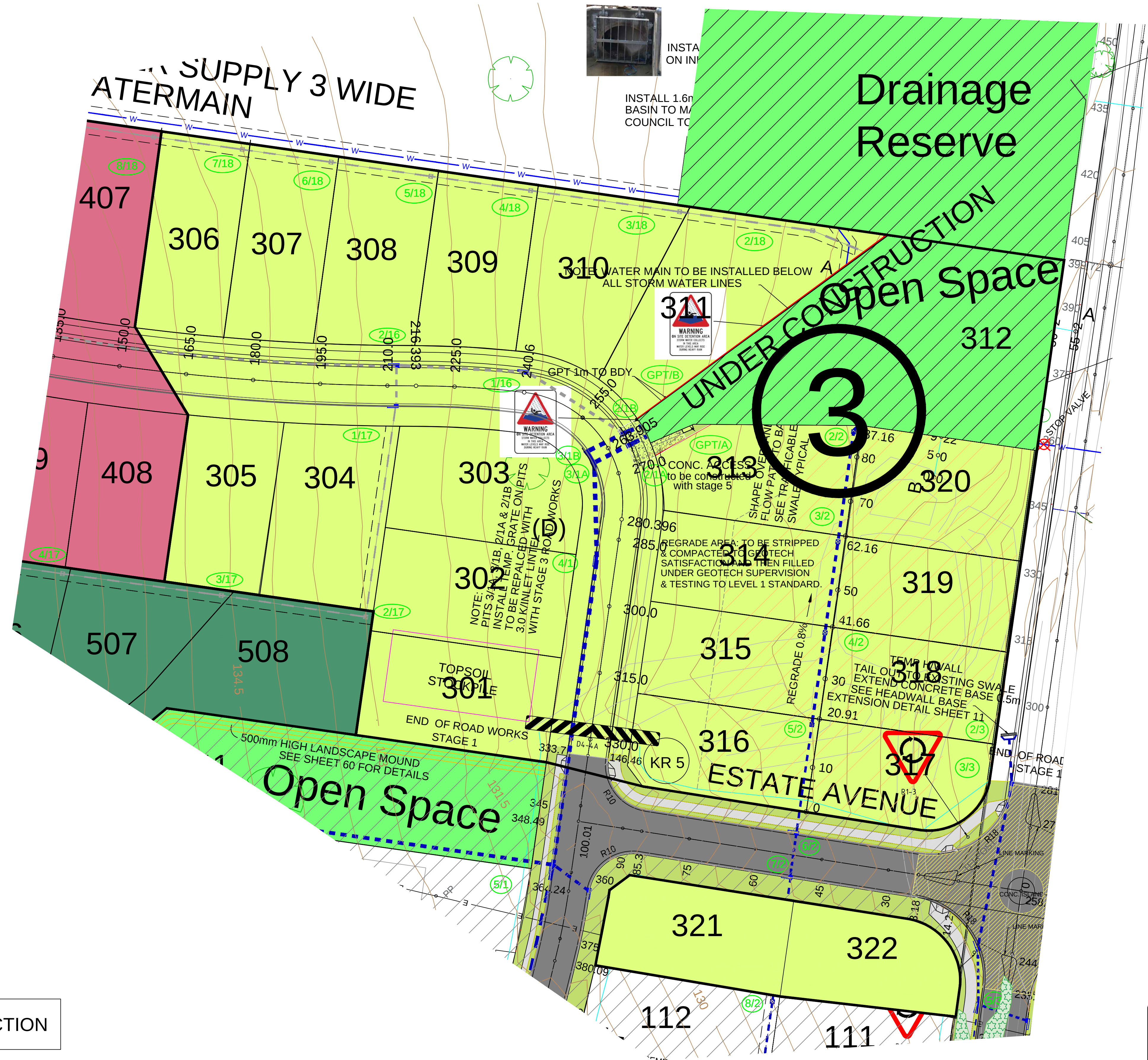
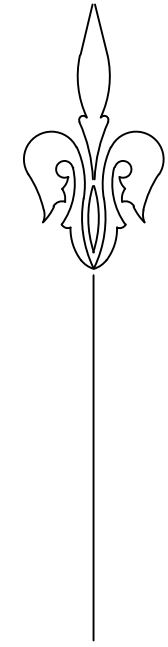
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JOB REF:

216218



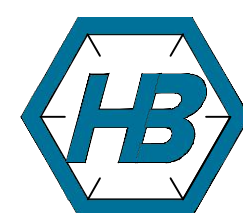
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GENERAL ARRANGEMENT PLAN
HIGHFIELDS, DENMAN
STAGE 2-5 CONCEPT DESIGN

REV: A

H.SCALE
1:1000
VERT. SCALE
CONTOUR INTERVAL
0.5m
DATE
18.01.2024
FILE
216218_2-5 CON DES
MICHAEL COLE Registered Land Surveyor

CLIENT: HIGHFIELDS PTY LIMITED

PLAN ISSUE

A DA - CONCEPT DESIGN

LGA: MUSWELLBROOK

PARISH: DENMAN

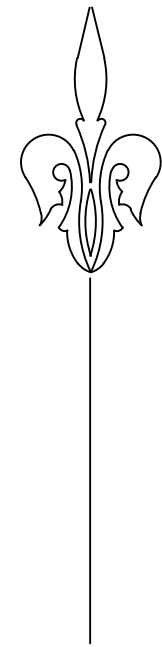
COUNTY: BRISBANE

SHEET

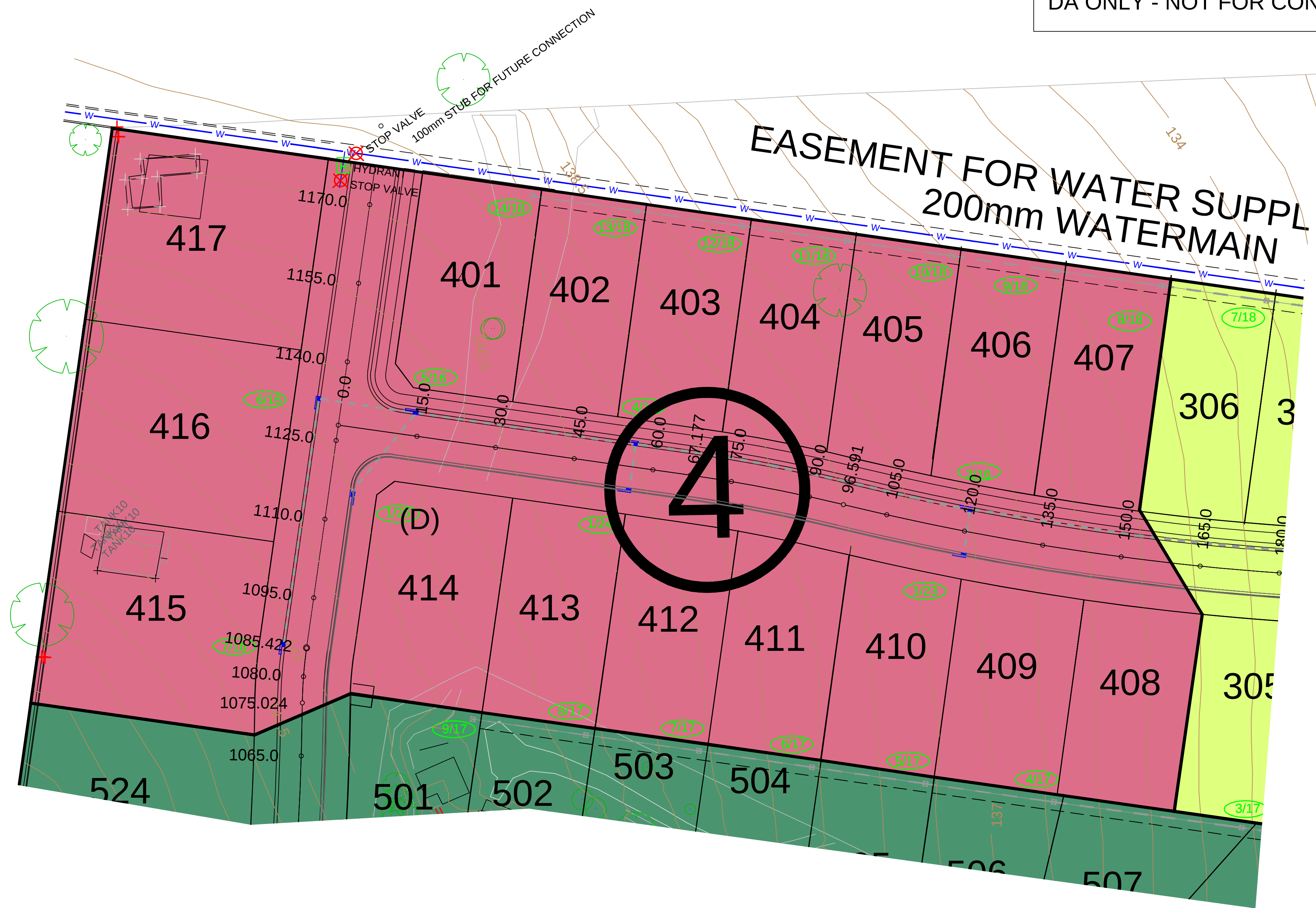
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GENERAL ARRANGEMENT PLAN
STAGE 4
HIGHFIELDS, DENMAN
STAGE 2-5 CONCEPT DESIGN

REV: A

H. SCALE 1:500 DATUM AHD
VERT. SCALE CONTOUR INTERVAL 0.5m
Michael Cole
MICHAEL COLE Registered Land Surveyor

CLIENT: HIGHFIELDS PTY LIMITED

DATE 18.01.2024

FILE 216218_2-5 CON DES

PLAN ISSUE

A DA - CONCEPT DESIGN

LGA: MUSWELLBROOK

PARISH: DENMAN

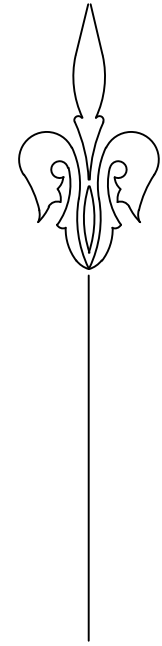
COUNTY: BRISBANE

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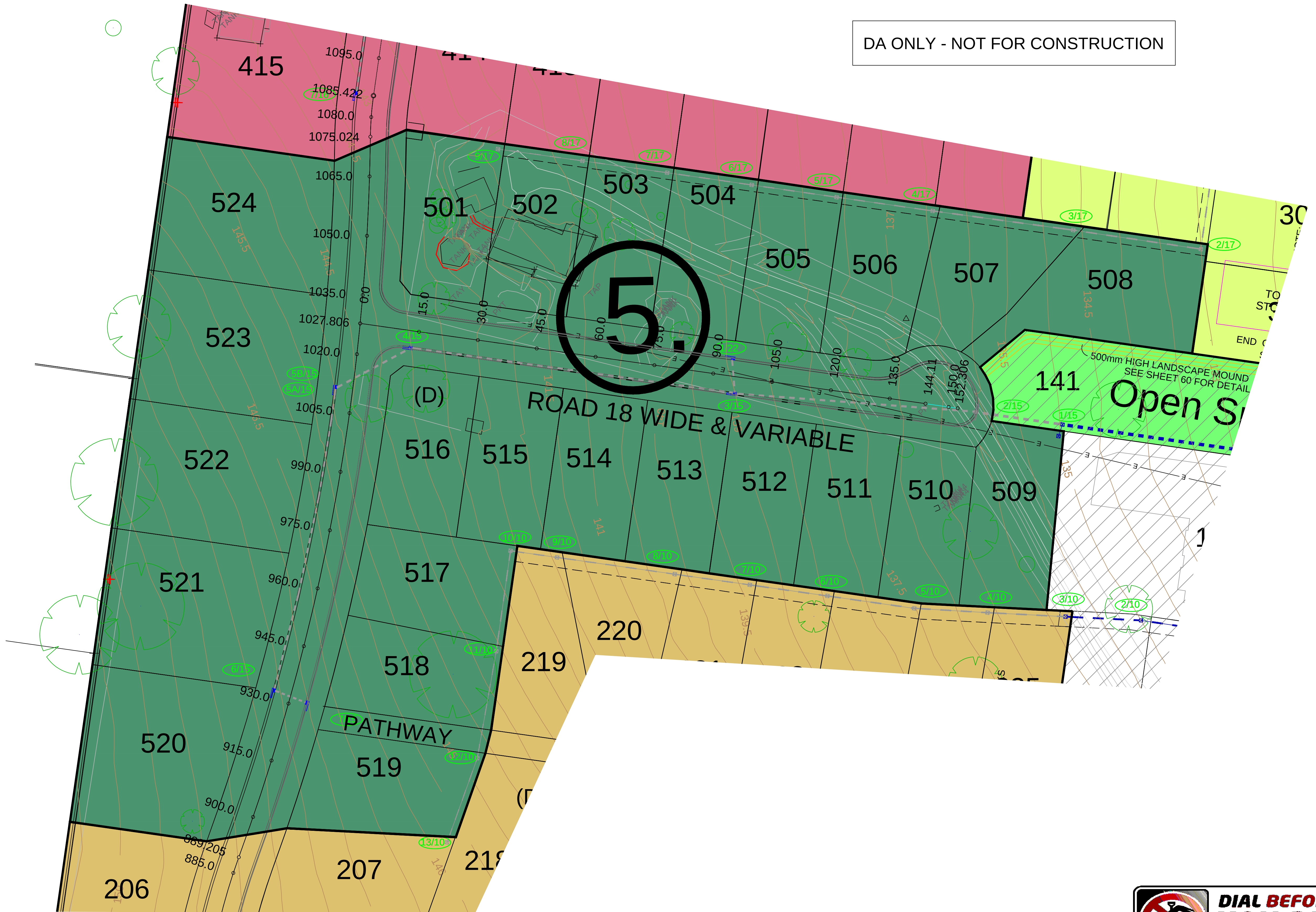
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GENERAL ARRANGEMENT PLAN
STAGE 5
HIGHFIELDS, DENMAN
STAGE 2-5 CONCEPT DESIGN

REV: A

H. SCALE 1:500 DATUM AHD
VERT. SCALE CONTOUR INTERVAL 0.5m
Michael Cole
MICHAEL COLE Registered Land Surveyor

CLIENT: HIGHFIELDS PTY LIMITED

DATE 18.01.2024

FILE 216218_2-5 CON DES

PLAN ISSUE

A DA - CONCEPT DESIGN

LGA: MUSWELLBROOK

PARISH: DENMAN

COUNTY: BRISBANE

SHEET

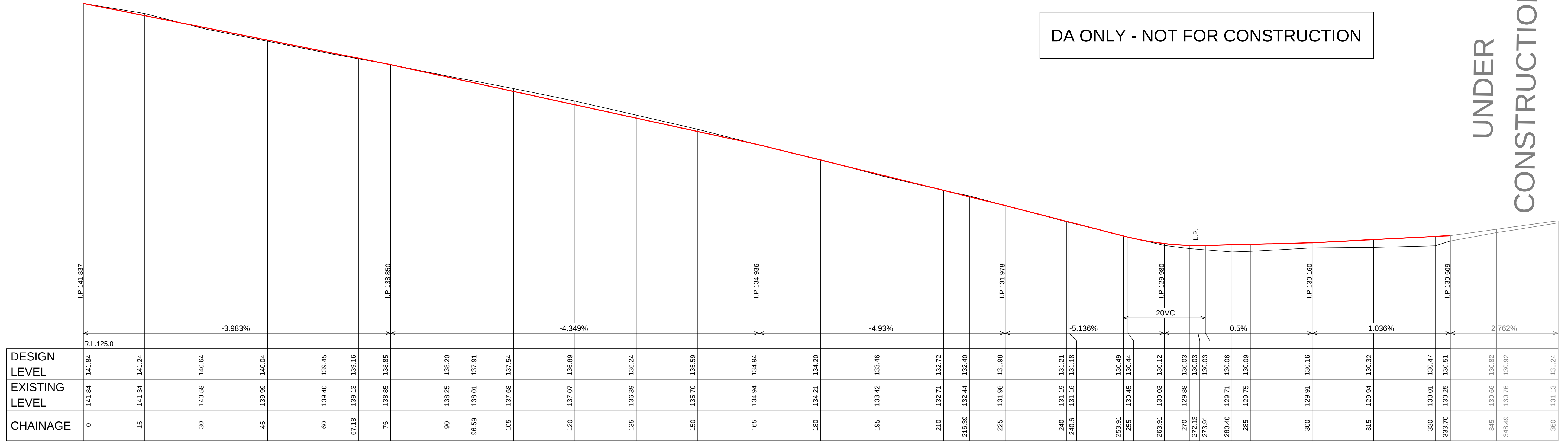
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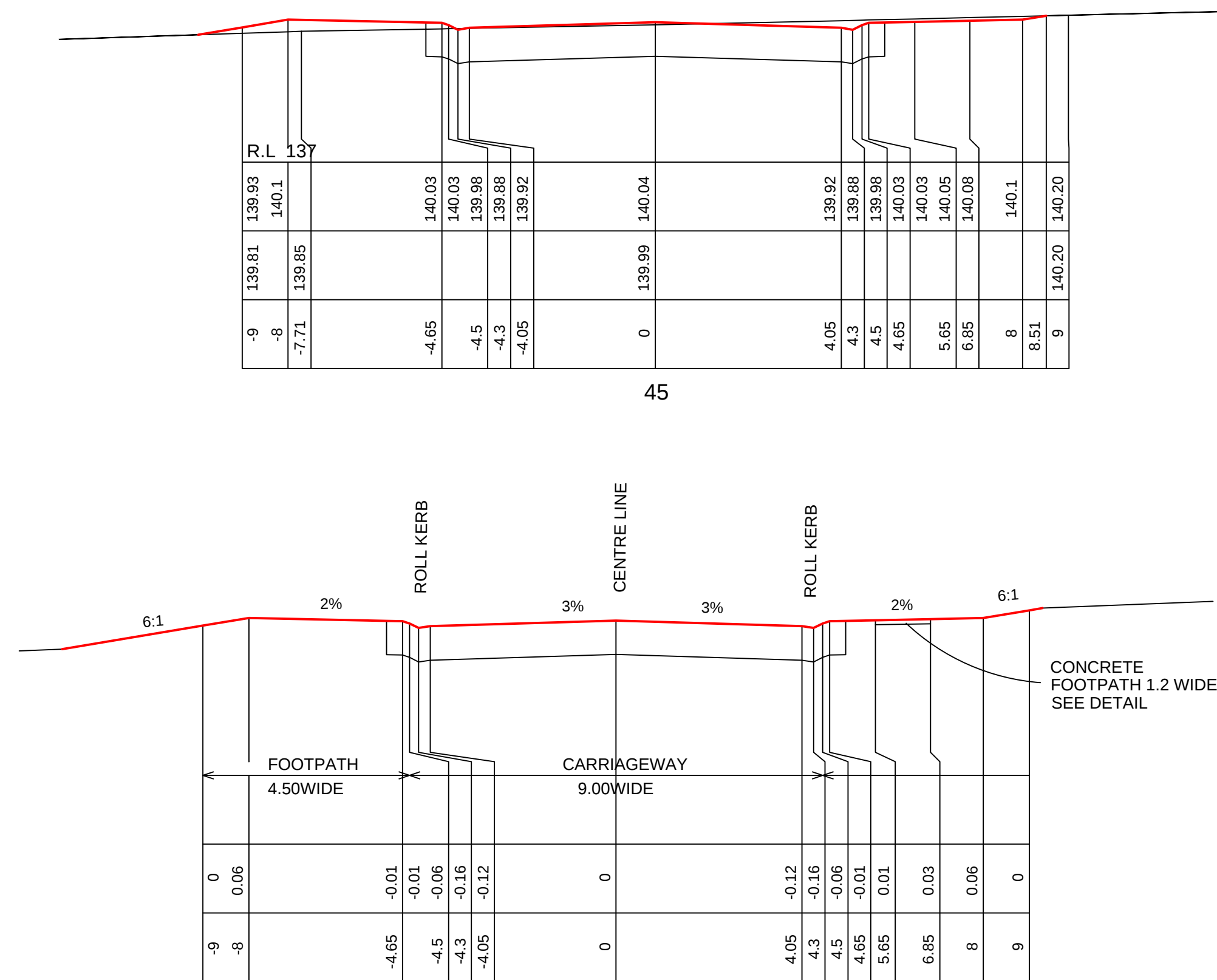
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CONSTRUCTION

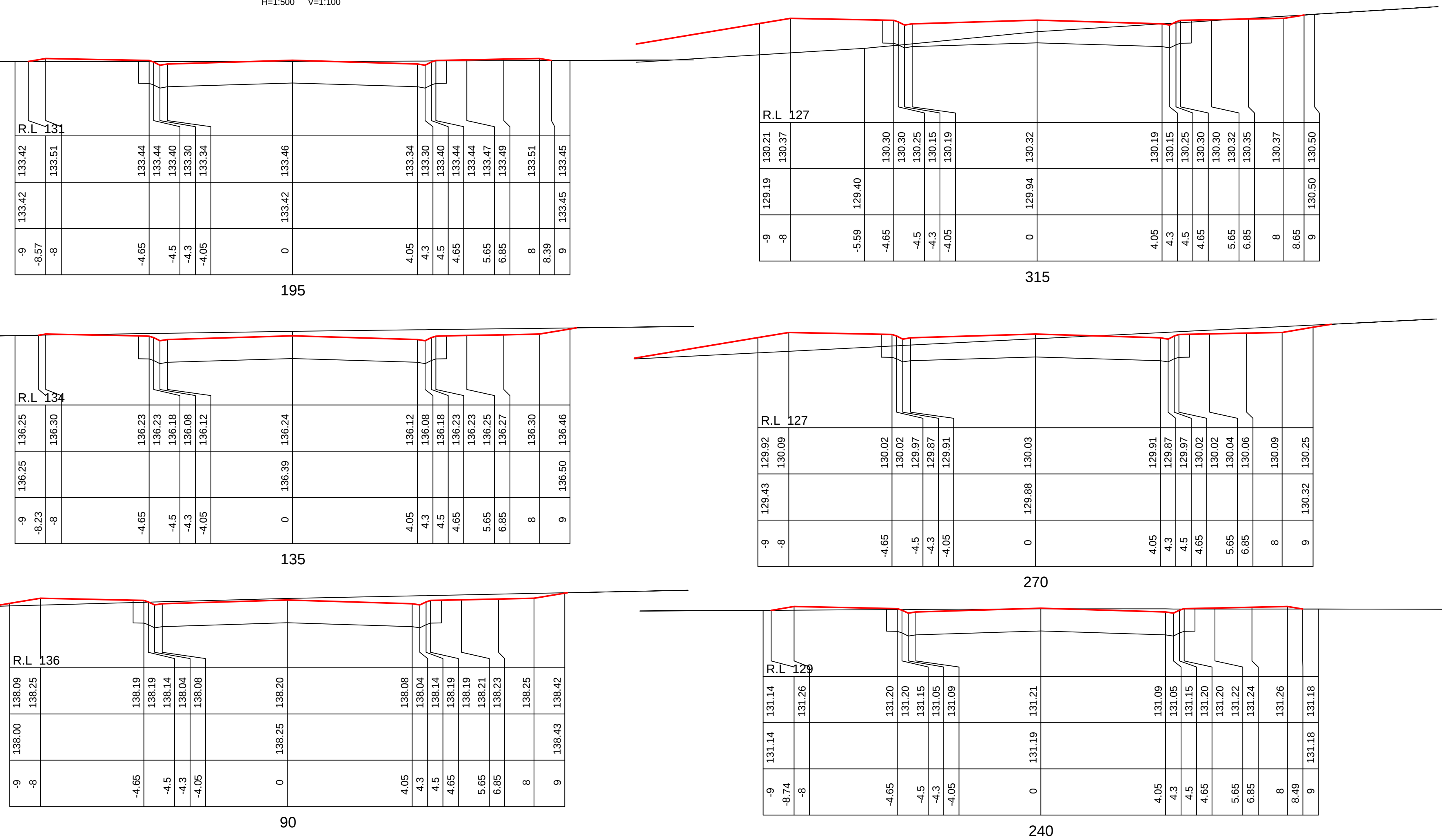


VINES CIRCUIT

H=1:500 V=1:100



TYPICAL 4 - VINES CIRCUIT



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LONGITUDINAL SECTION AND CROSS SECTIONS
CH0-360 VINES CIRCUIT
HIGHFIELDS, DENMAN
STAGE 2-5 CONCEPT DESIGN

REV: A

H.SCALE 1:500	DATUM AHD
VERT. SCALE 1:100	CONTOUR INTERVAL


 MICHAEL COLE Registered Land Surveyor

CLIENT: HIGHFIELDS PTY LIMITED

DATE
18.01.2024

FILE
216218_2-5 CON DES

PLAN ISSUE

A	DA - CONCEPT DESIGN
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LGA: MUSWELLBROOK

PARISH: DENMAN

COUNTY: BRISBANE

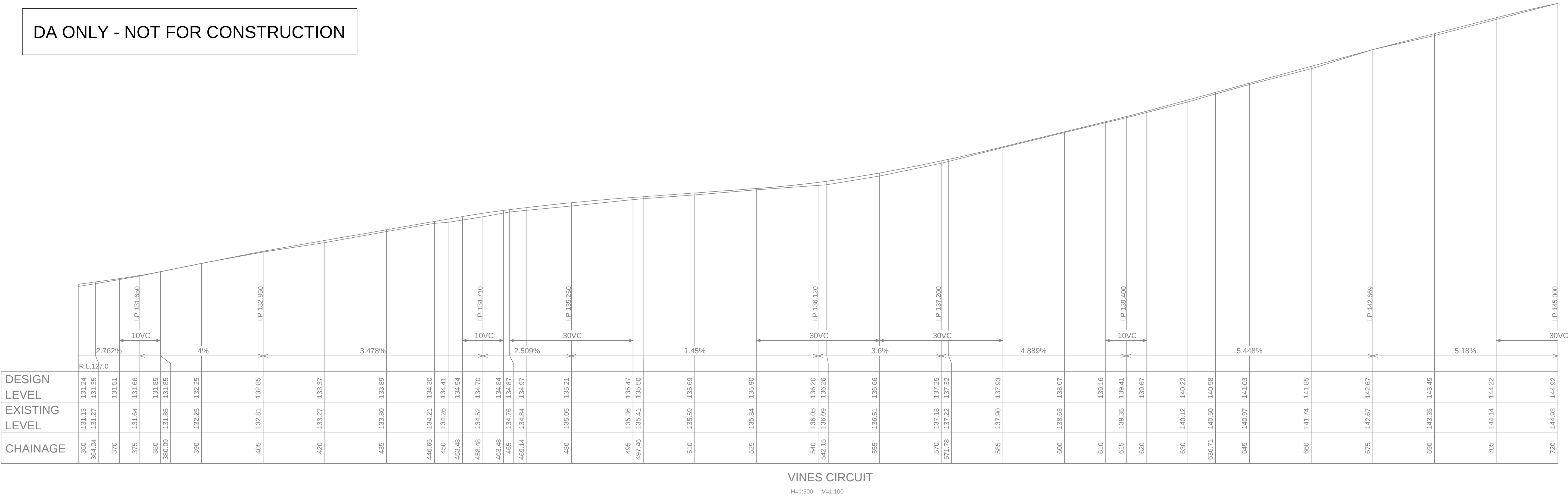
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6

JOB REF:
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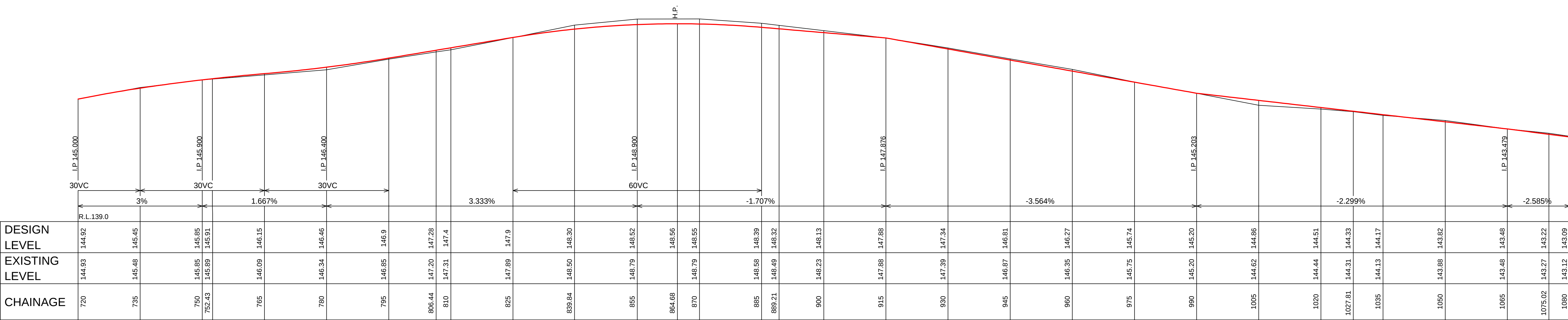
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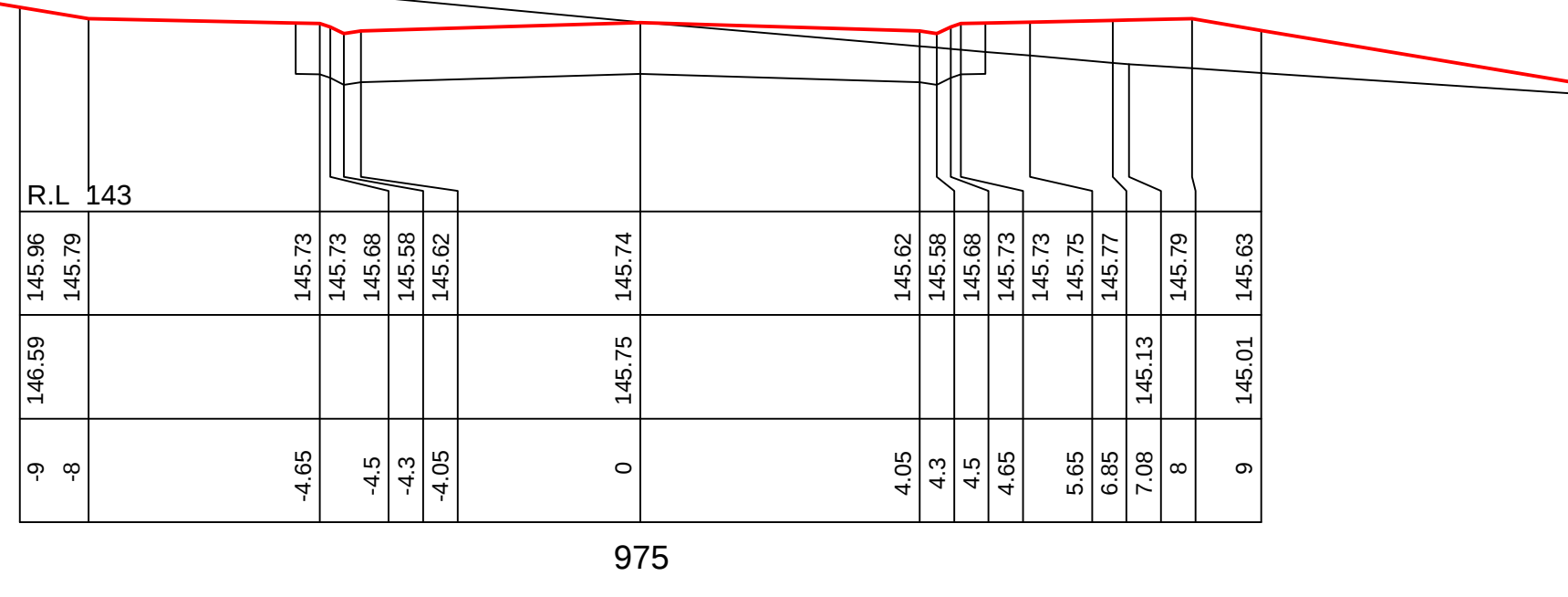
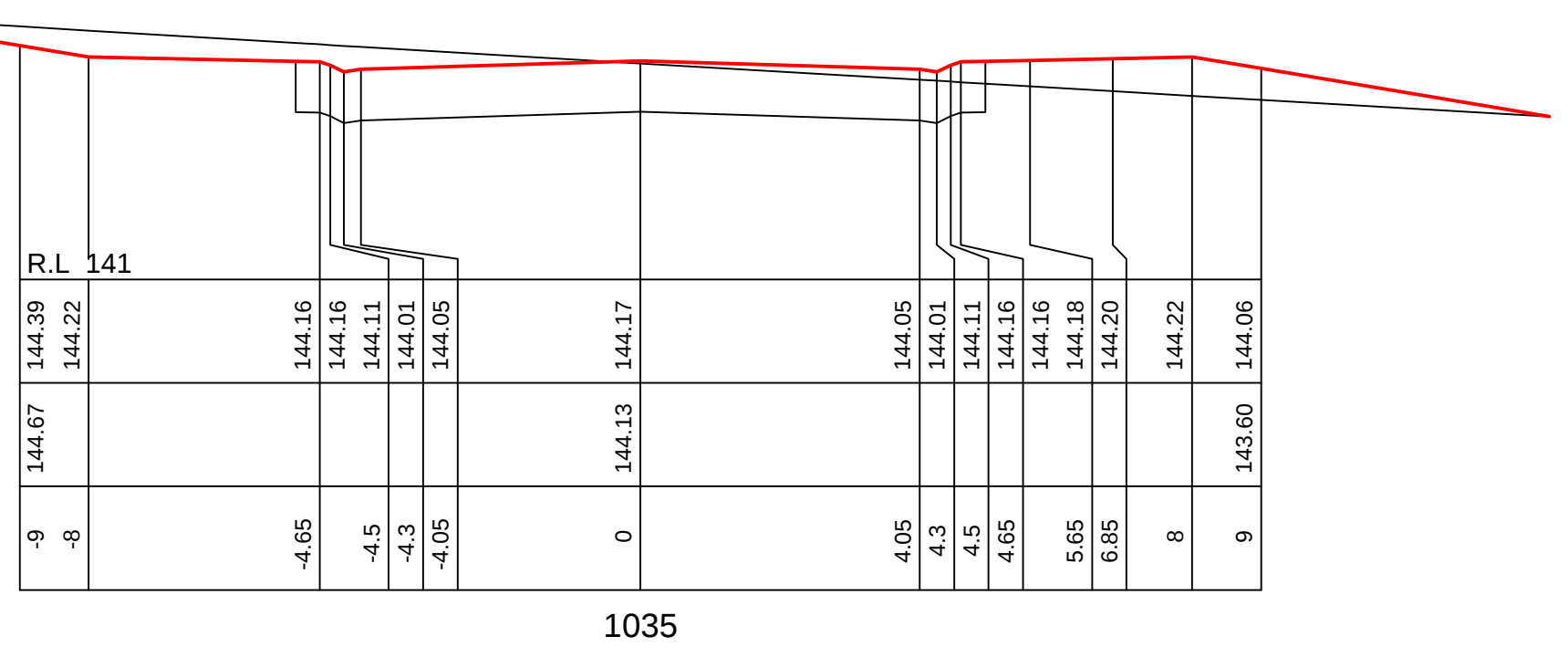
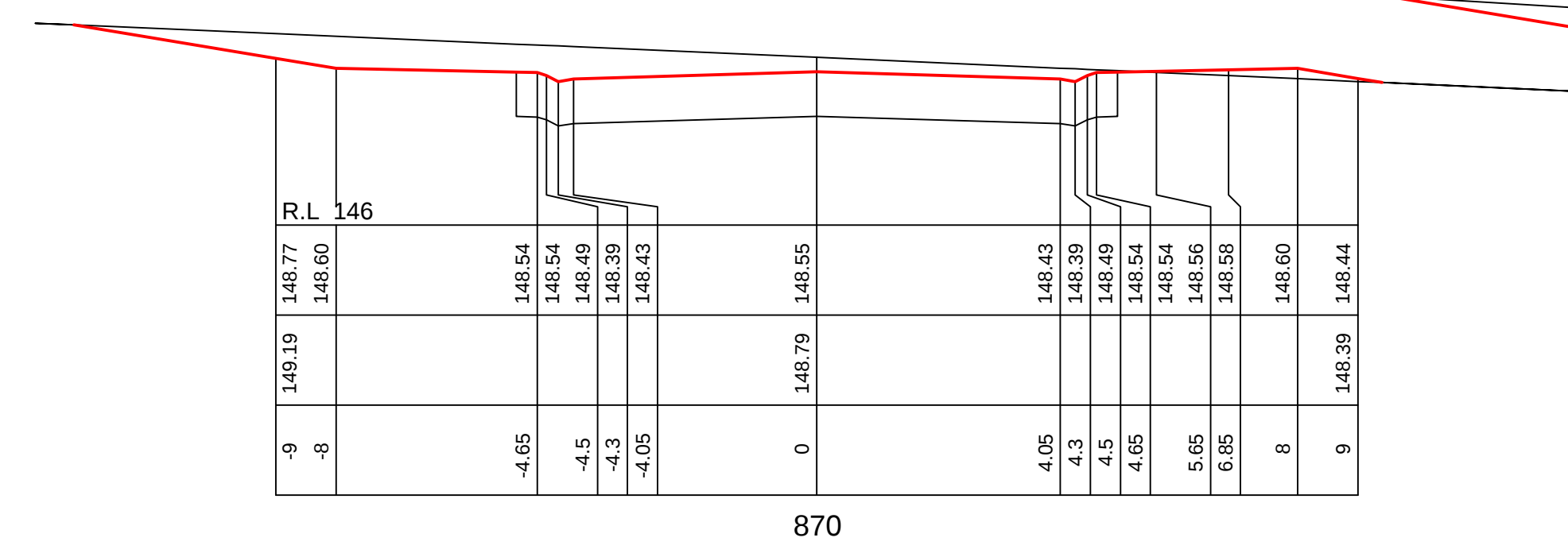
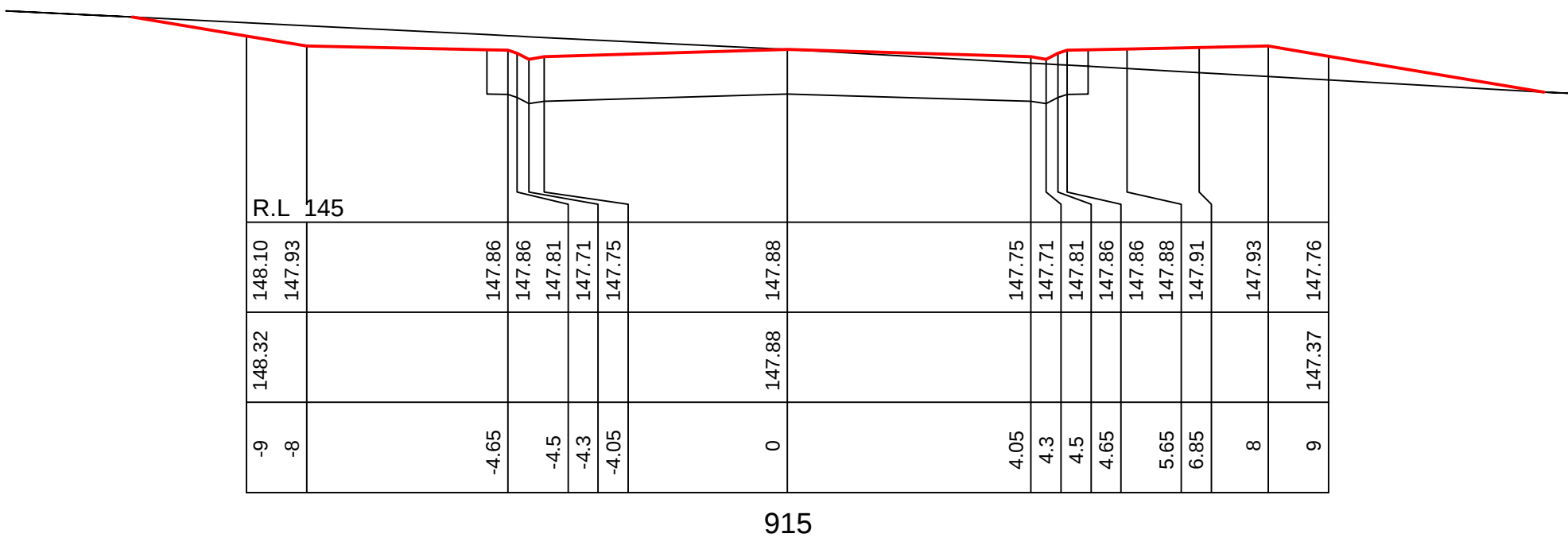
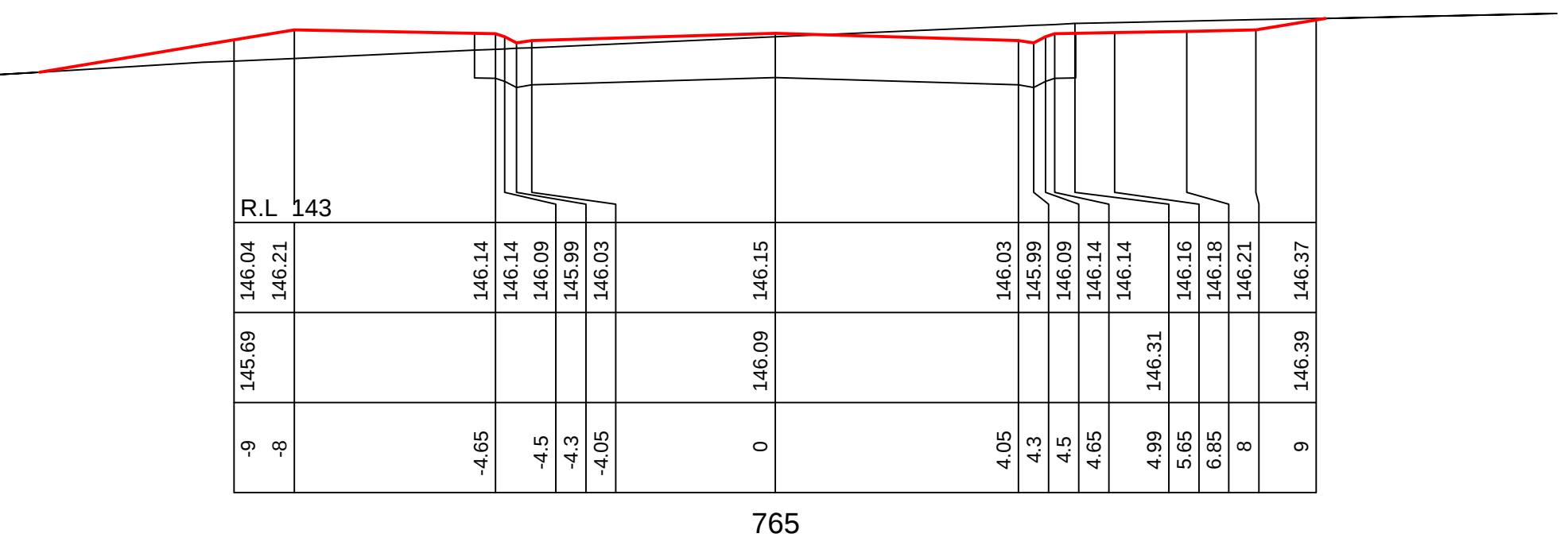
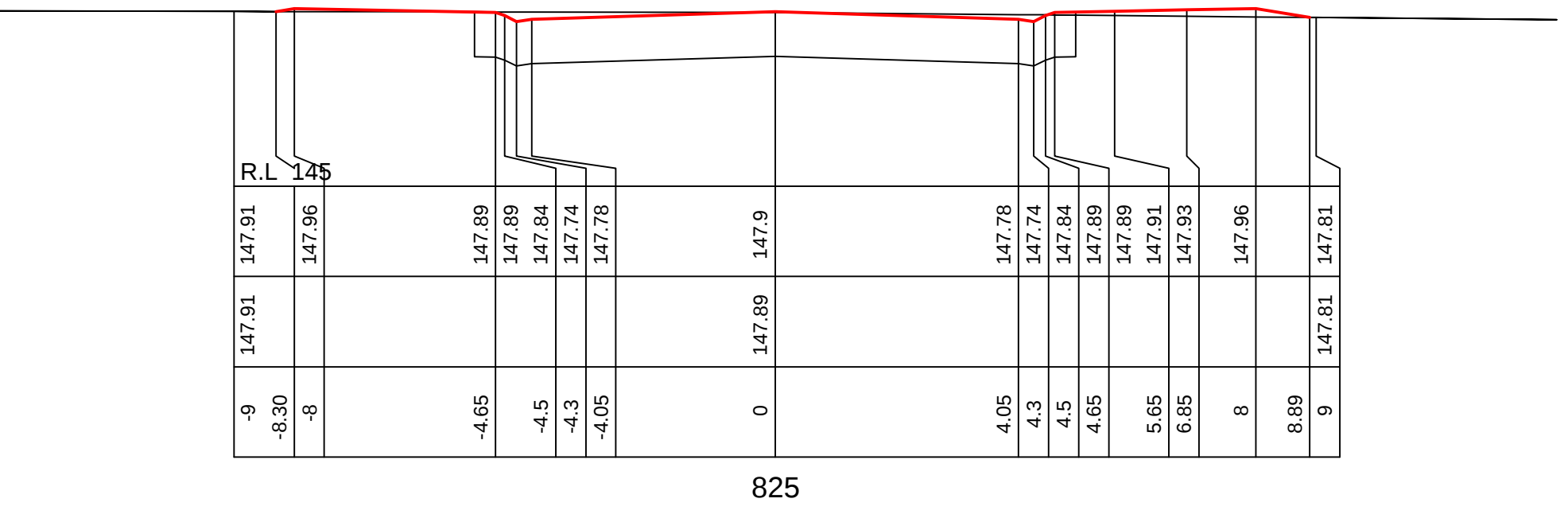


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VINES CIRCUIT
H=1:500 V=1:100



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LONGITUDINAL SECTION AND CROSS SECTIONS
CH720-1080 VINES CIRCUIT
HIGHFIELDS, DENMAN
STAGE 2-5 CONCEPT DESIGN

REV: A

H.SCALE 1:500
VERT. SCALE 1:100
D.A.T.U.M. A.H.D.
CONTOUR INTERVAL
MICHAEL COLE Registered Land Surveyor

CLIENT: HIGHFIELDS PTY LIMITED
DATE 18.01.2024
FILE 216218_2-5 CON DES

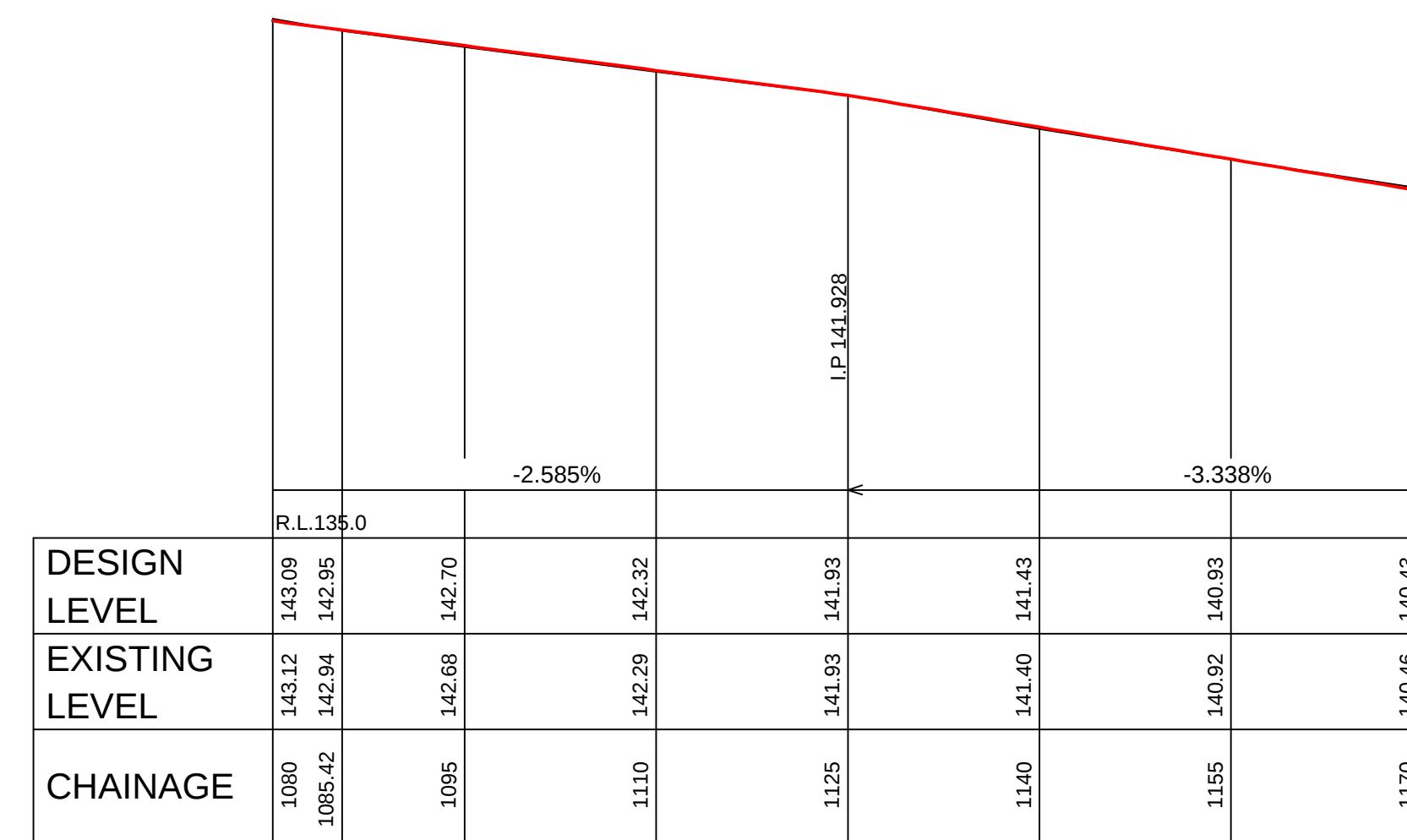
PLAN ISSUE
A DA - CONCEPT DESIGN

LGA: MUSWELLBROOK
PARISH: DENMAN
COUNTY: BRISBANE

SHEET 8
JOB REF: 216218

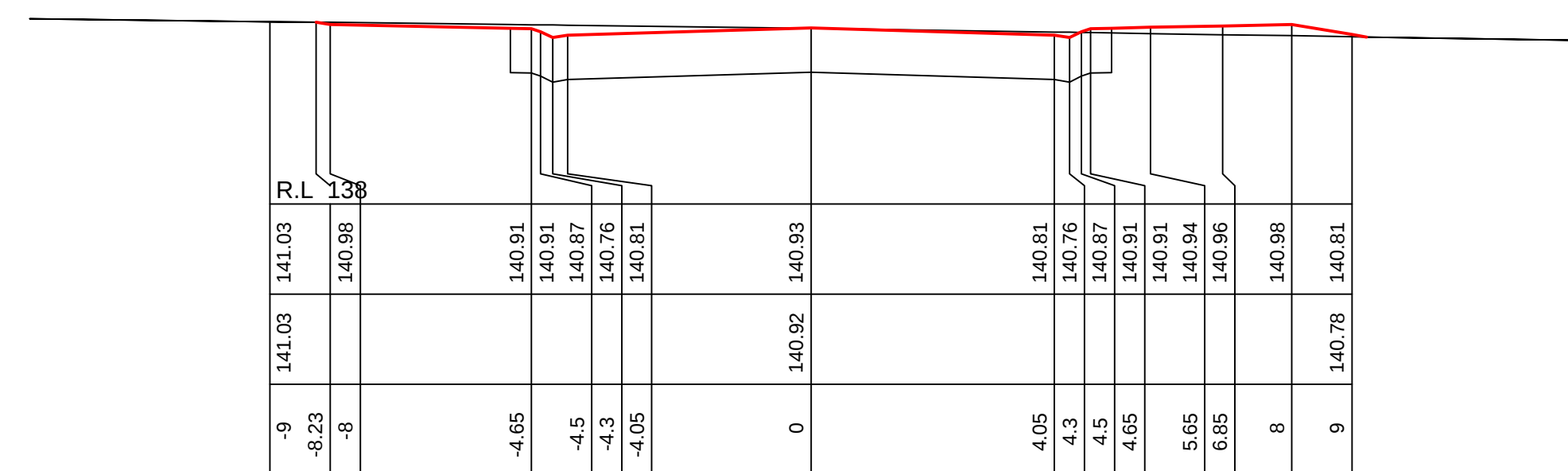
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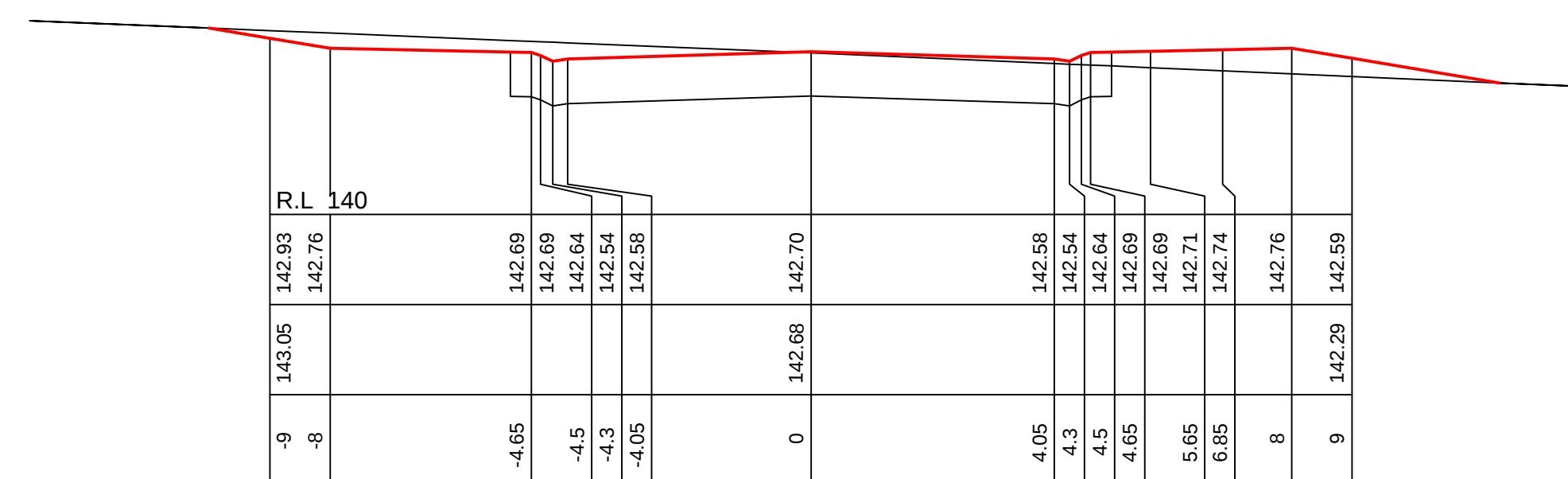


VINES CIRCUIT

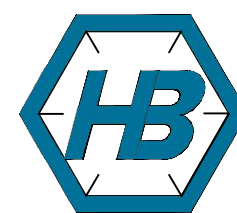
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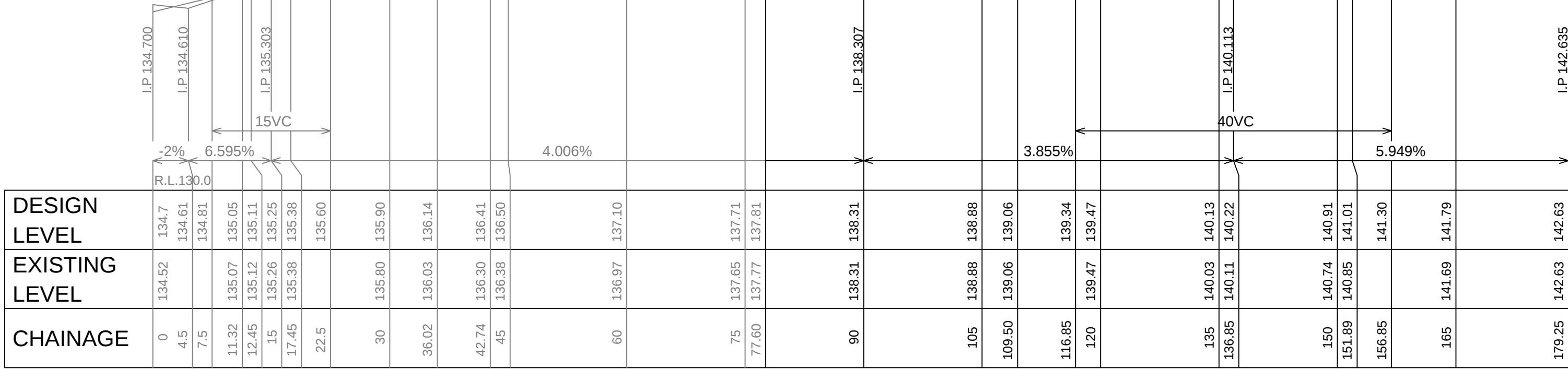


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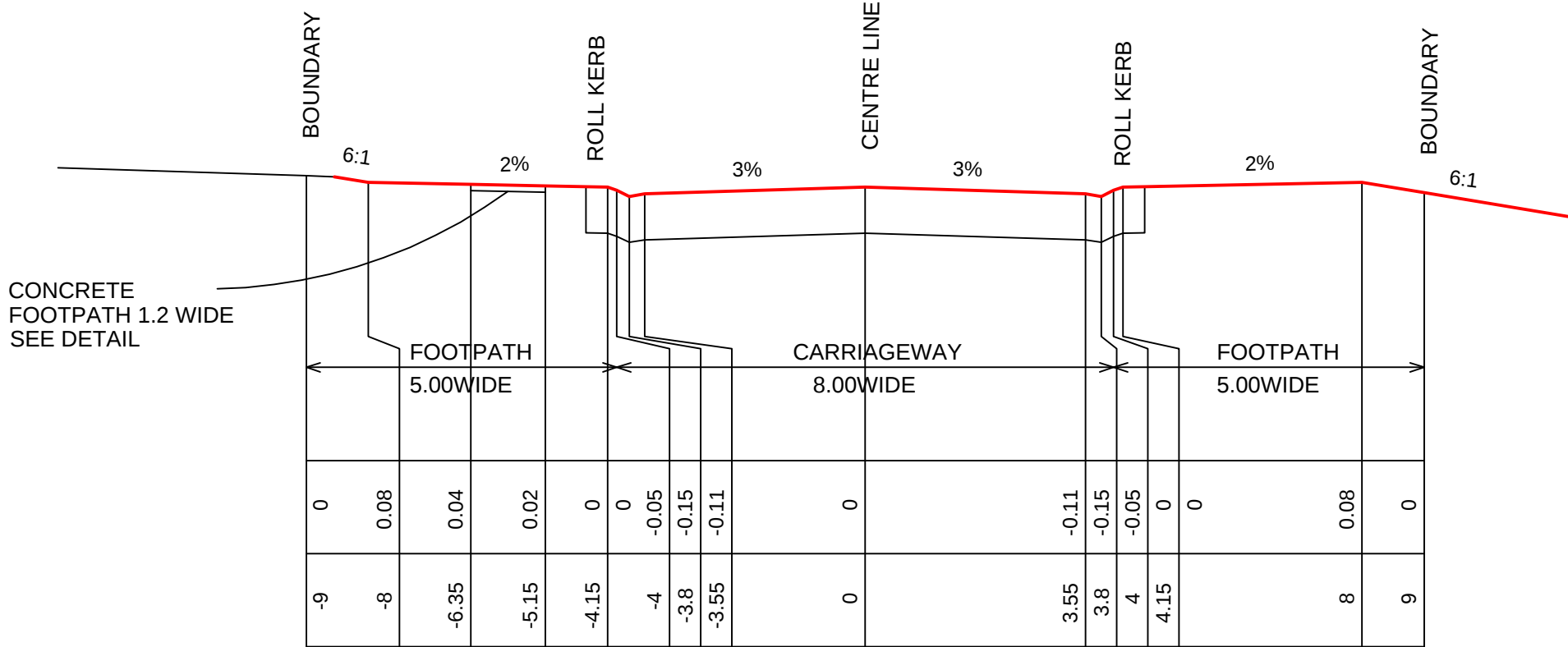
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UNDER
CONSTRUCTION

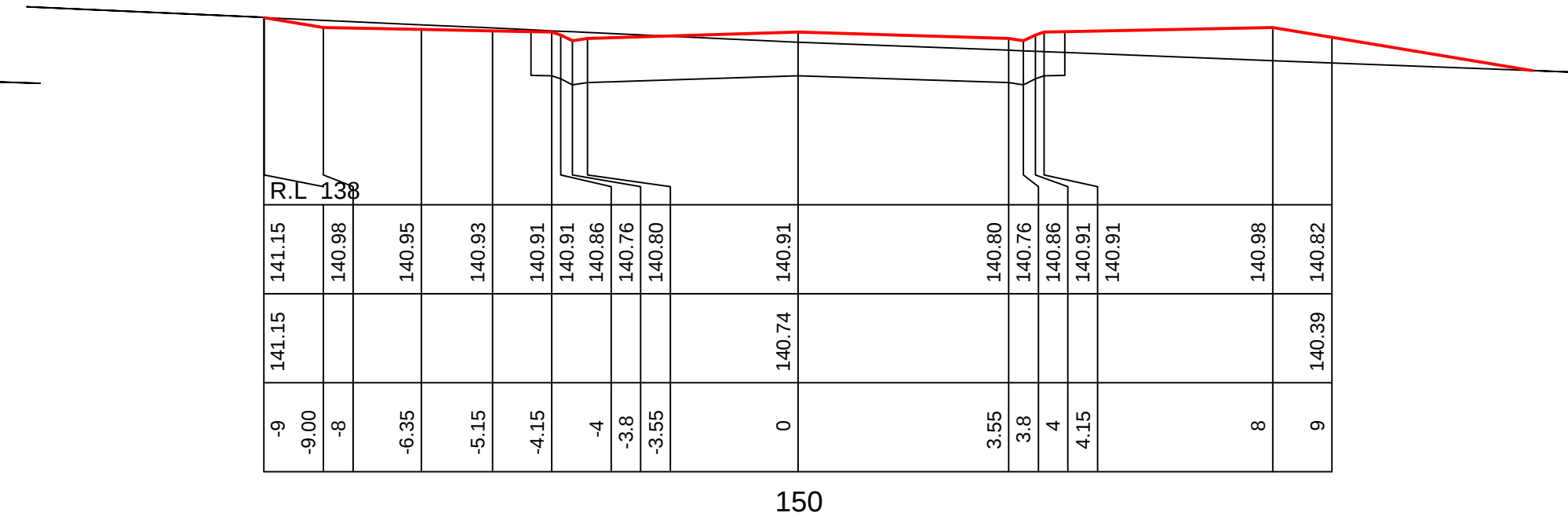
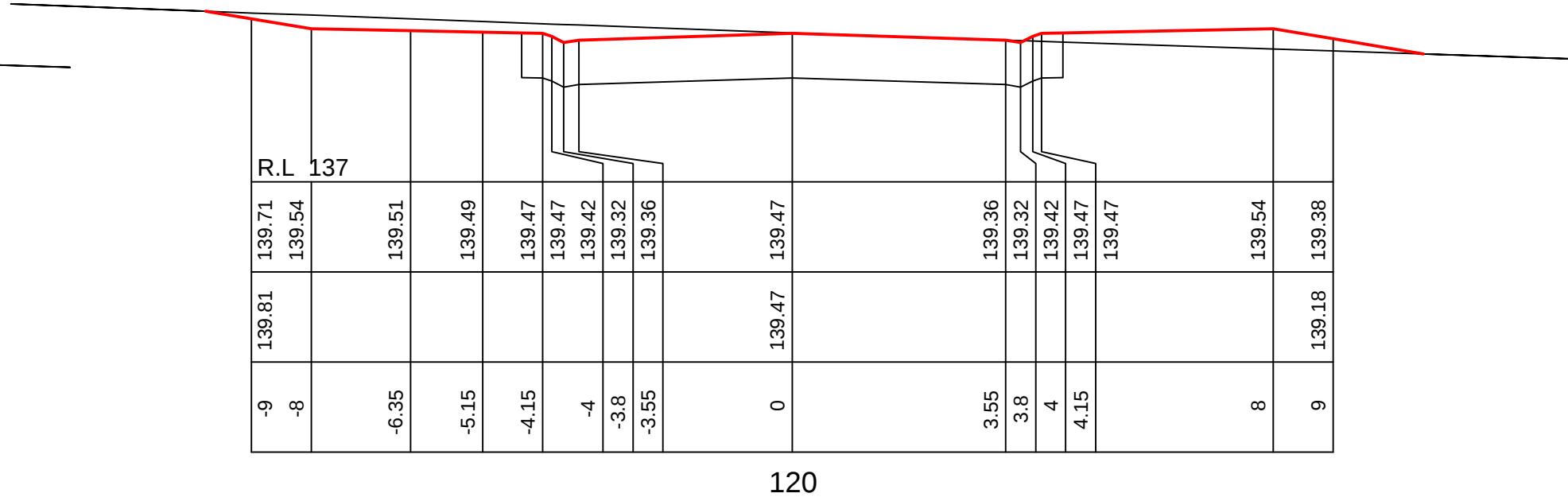
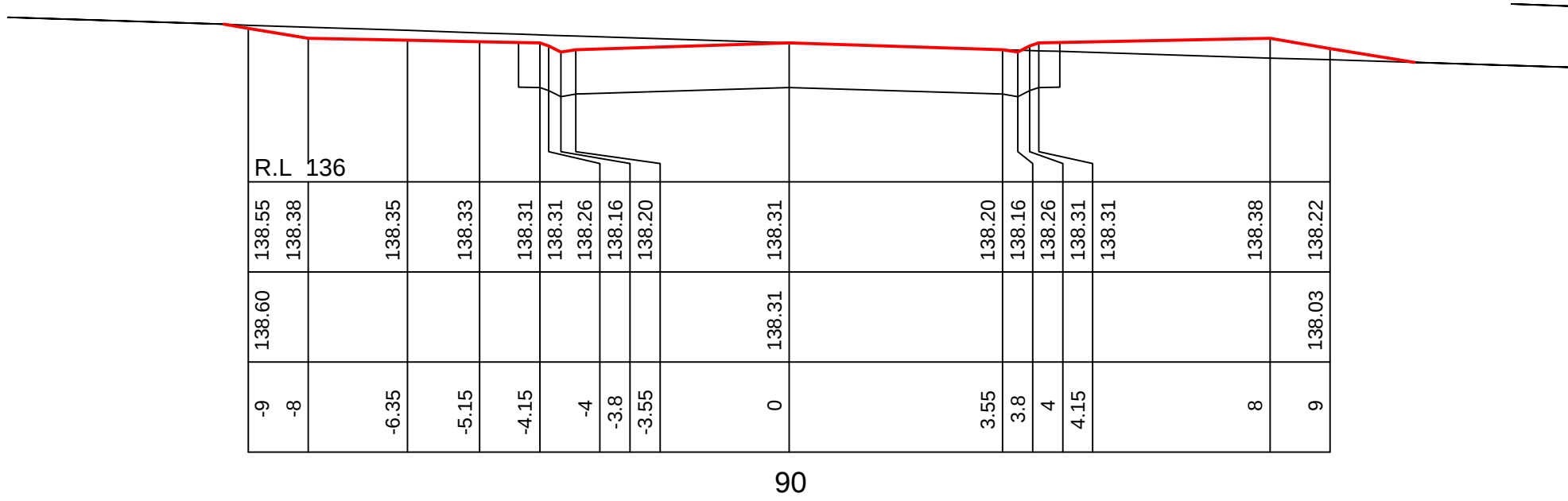


HOLLYDEEN CRESCEN

H=1:500 V=1:100



TYPICAL 5 - HOLLYDEEN CRESCENT



LONGITUDINAL SECTION AND CROSS SECTIONS
HOLLYDEEN CRESCENT
HIGHFIELDS, DENMAN

STAGE 2-5 CONCEPT DESIGN

REV: A

H.SCALE 1:500	DATUM AHD
VERT. SCALE 1:100	CONTOUR INTERVAL


 MICHAEL COLE Registered Land Surveyor

CLIENT: HIGHFIELDS PTY LIMITED

DATE
18.01.2024

FILE
216218_2-5 CON DES

PLAN ISSUE

A	DA - CONCEPT DESIGN
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LGA: MUSWELLBROOK

PARISH: DENMAN

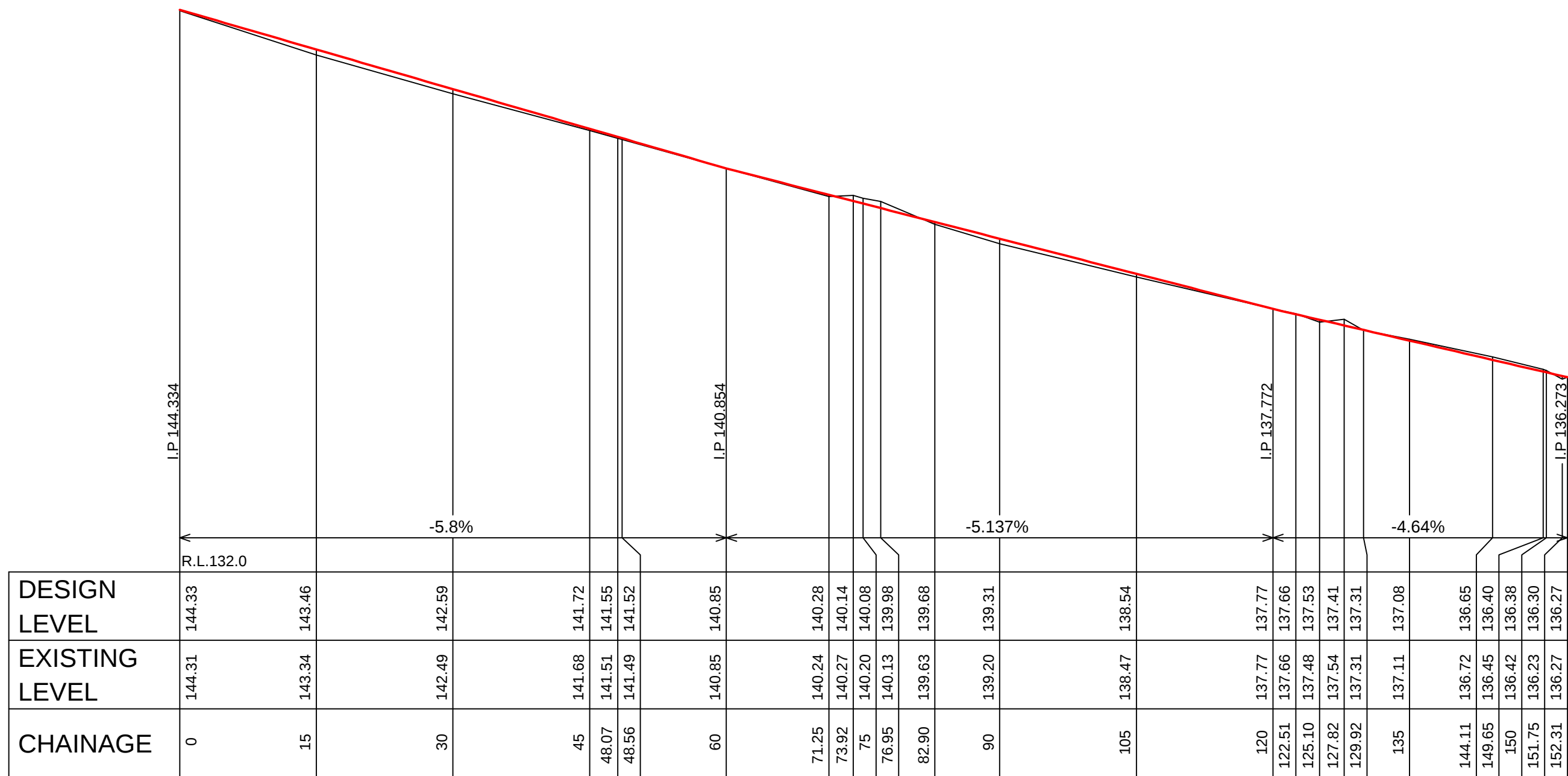
COUNTY: BRISBANE

EET

10

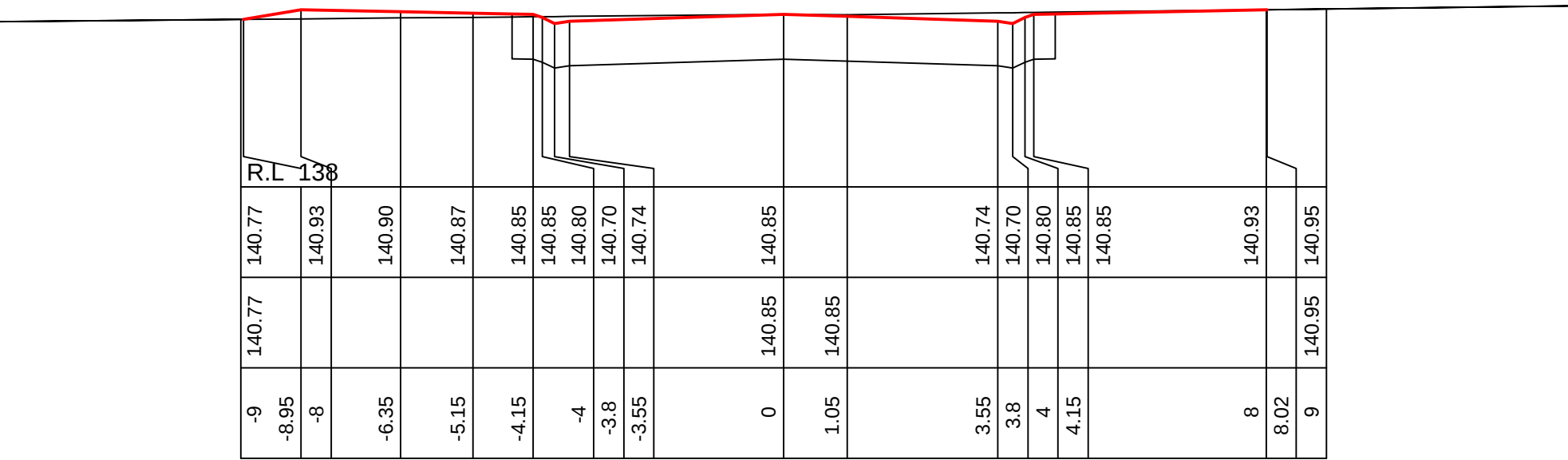
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216218

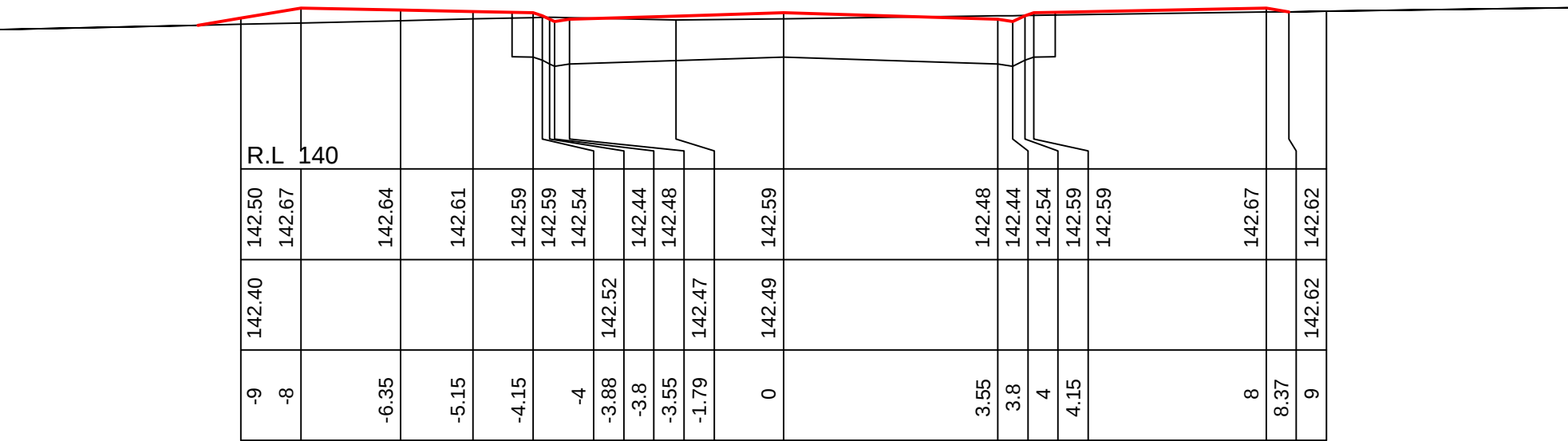


ROAD 18 WIDE & VARIABLE

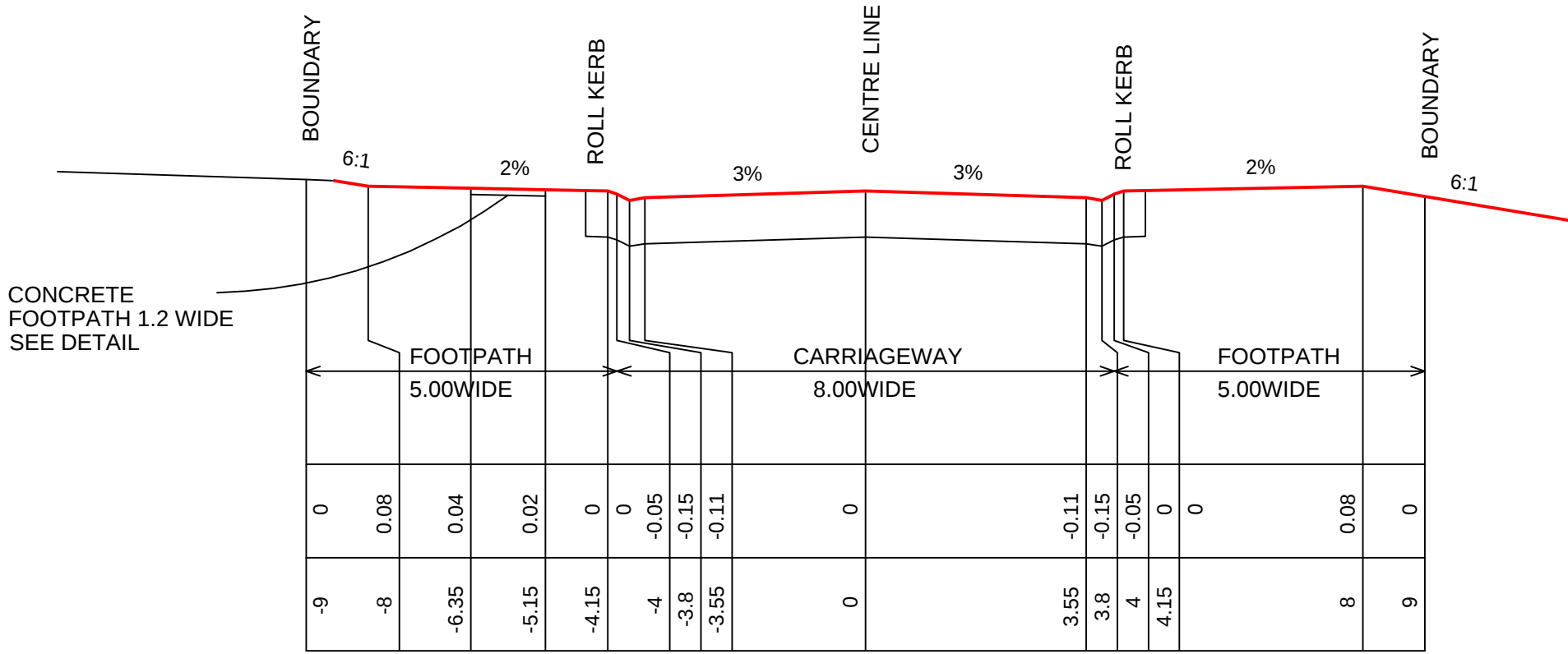
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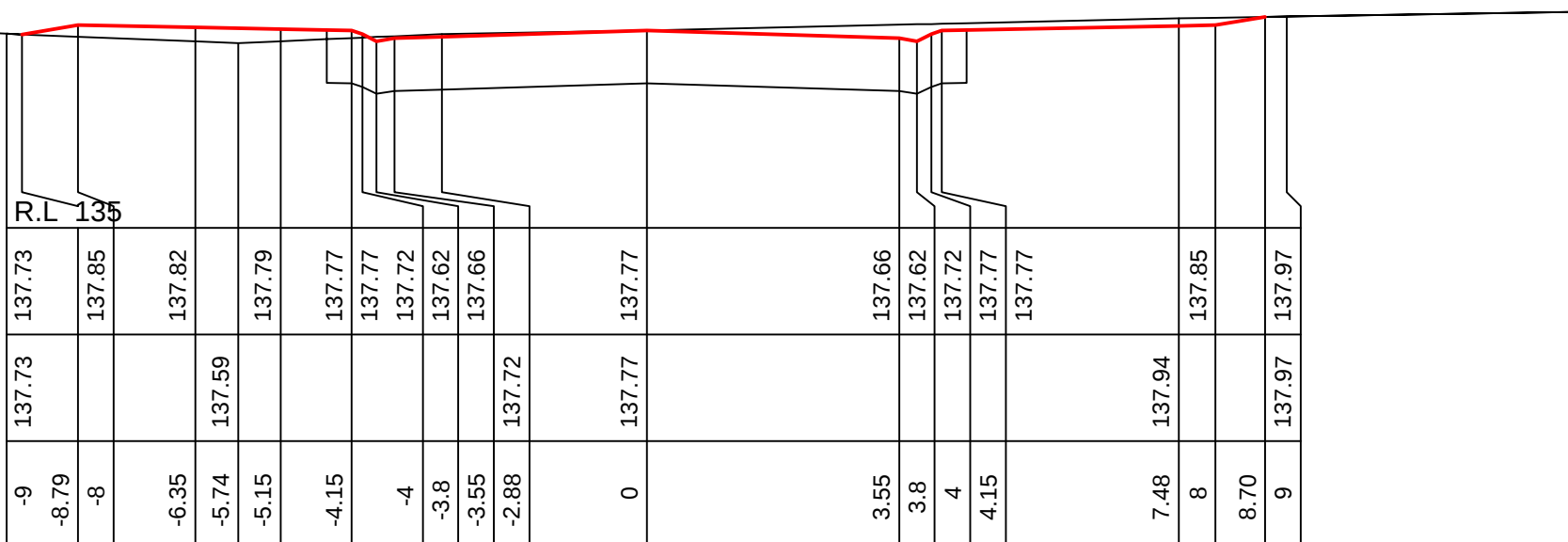


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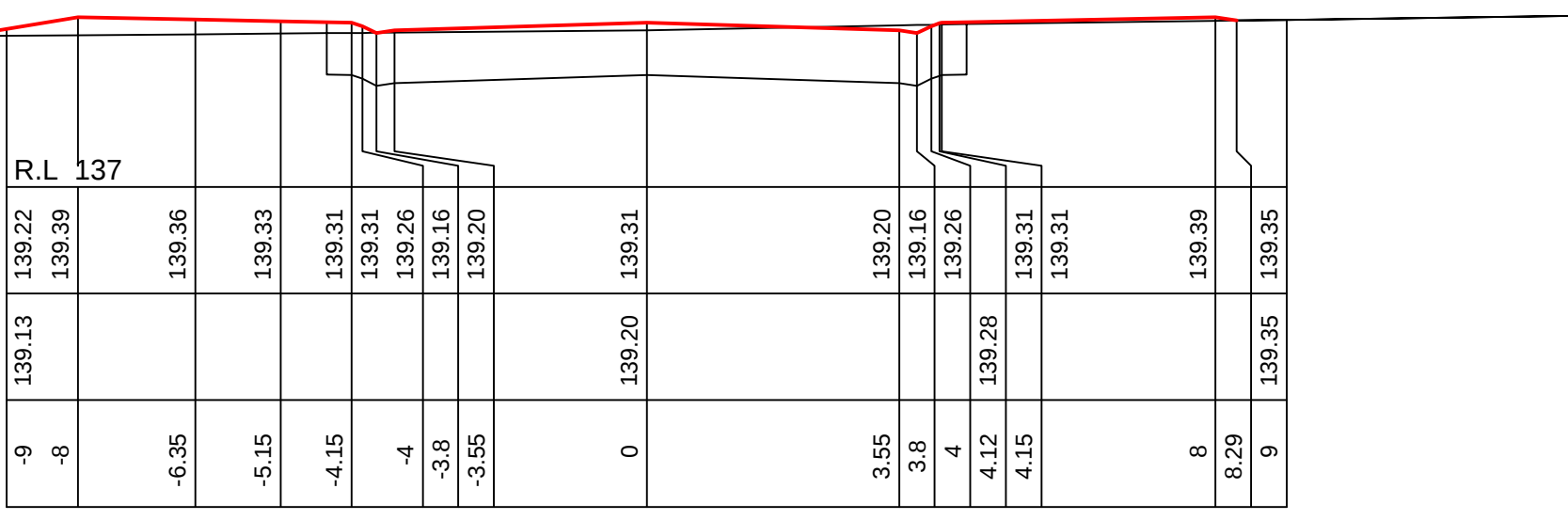


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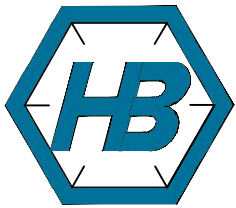
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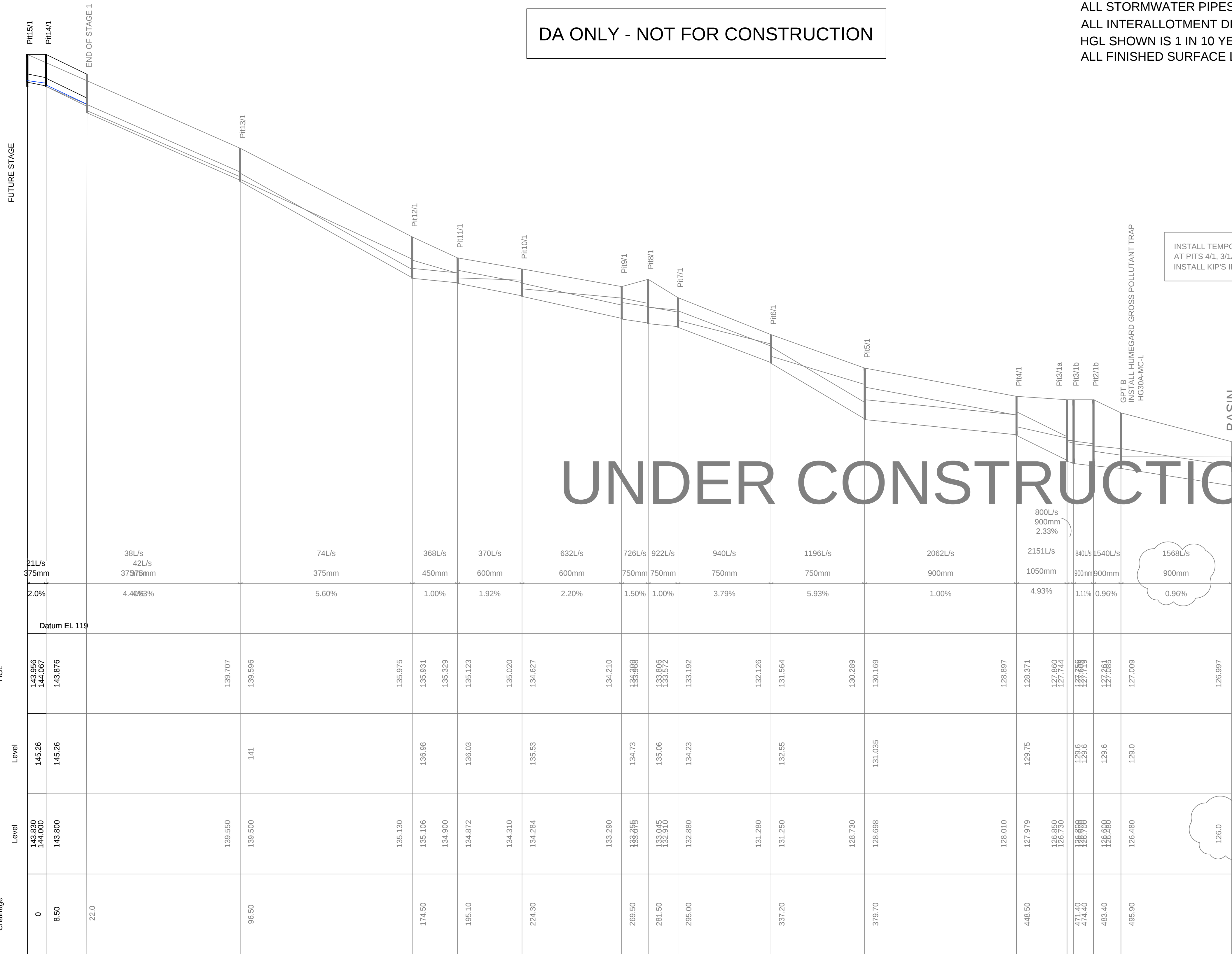


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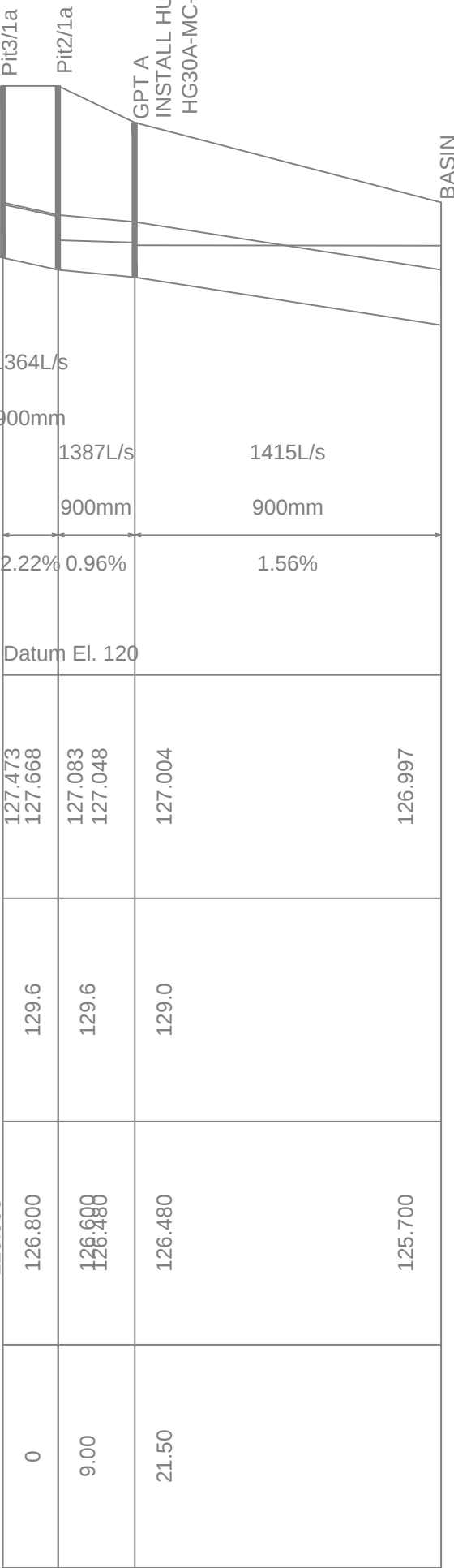
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ALL STORMWATER PIPES UNDER ROAD SHALL BE RCP RRJ CLASS 3
ALL INTERALLOTMENT DRAINAGE PIPES SHALL BE VINIDEX - STORMWATER PRO OR UPVC
HGL SHOWN IS 1 IN 10 YEAR STORM
ALL FINISHED SURFACE LEVELS FOR PITS ARE GRATE LEVEL.

INSTALL TEMPORAY GRATE
AT PITS 4/1, 3/1A, 3/1B, 2/1A & 2/1B
INSTALL KIP'S IN STAGE 3

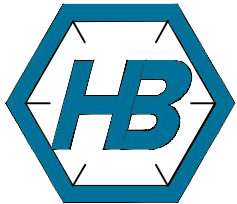
GPT B
INSTALL HUMEGARD GROSS POLLUTANT TRAP
HG30A-MC-L

GPT A
INSTALL HUMEGARD GROSS POLLUTANT TRAP
HG30A-MC-R



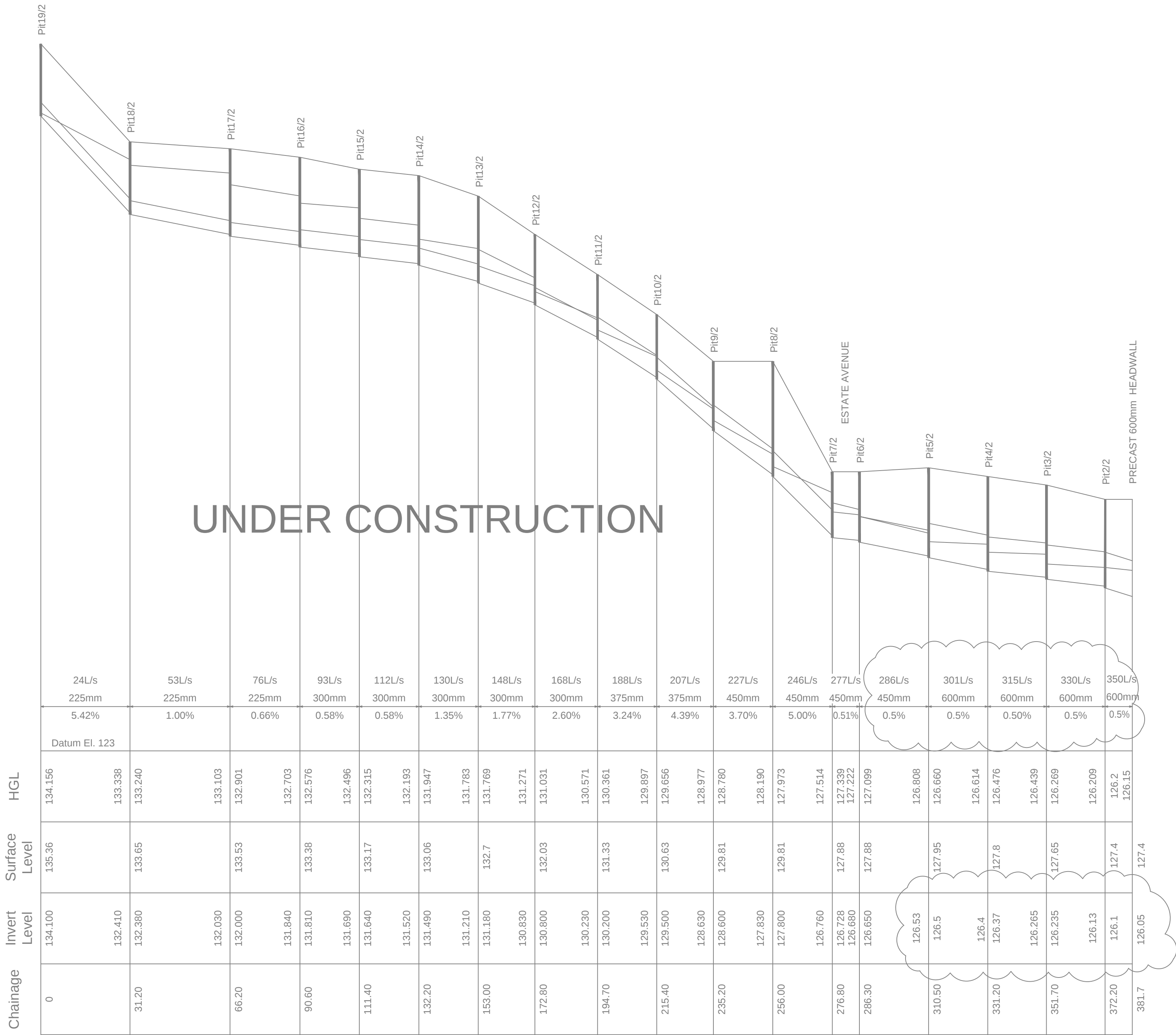
Line 1

Basin Outlet

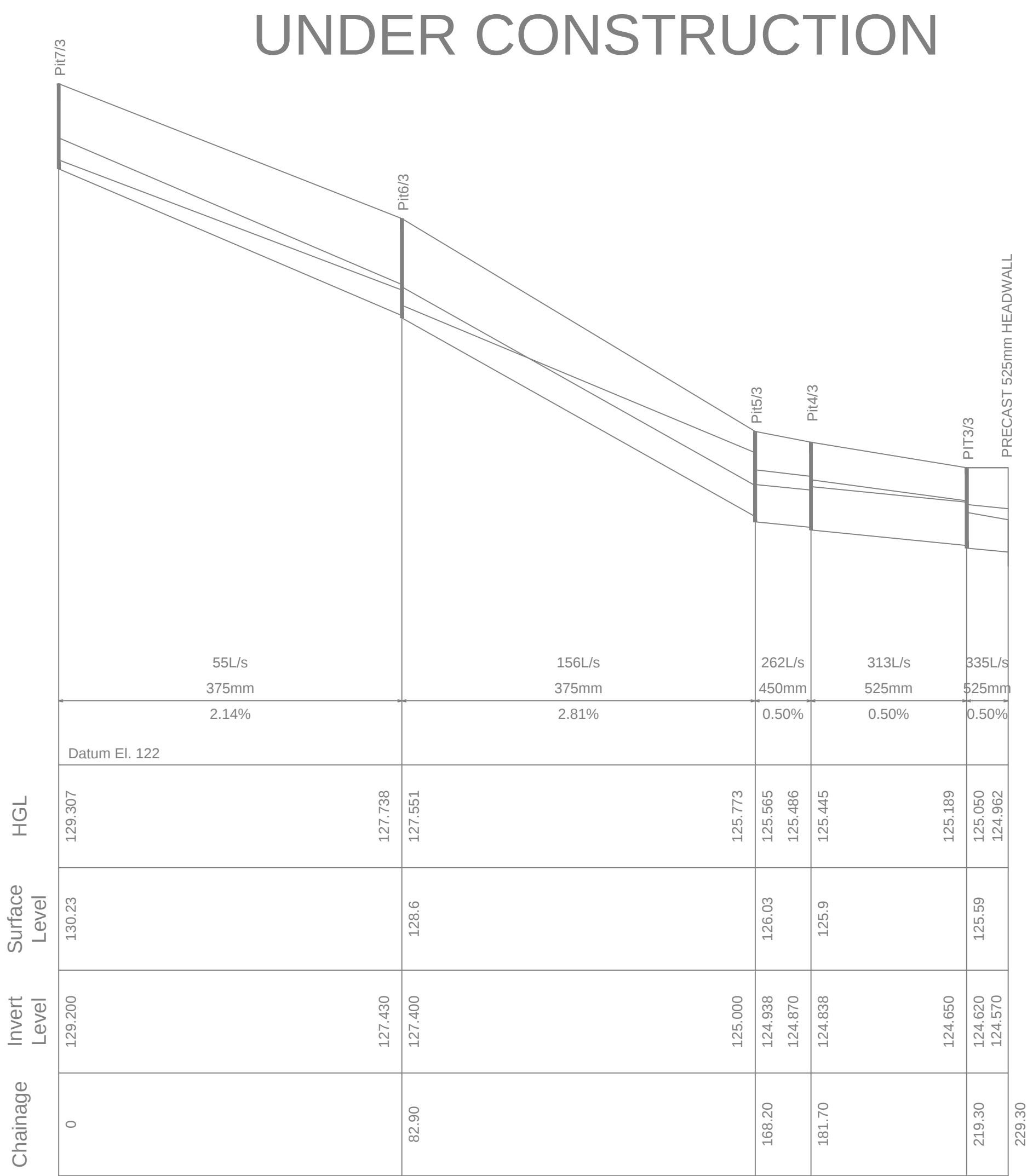


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HGL SHOWN IS 1 IN 10 YEAR STORM
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Line 2



Line 3



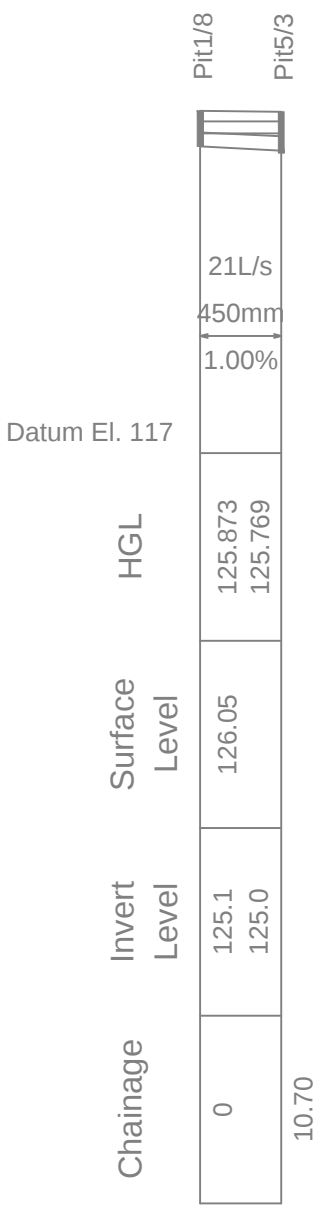
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UNDER
CONSTRUCTION



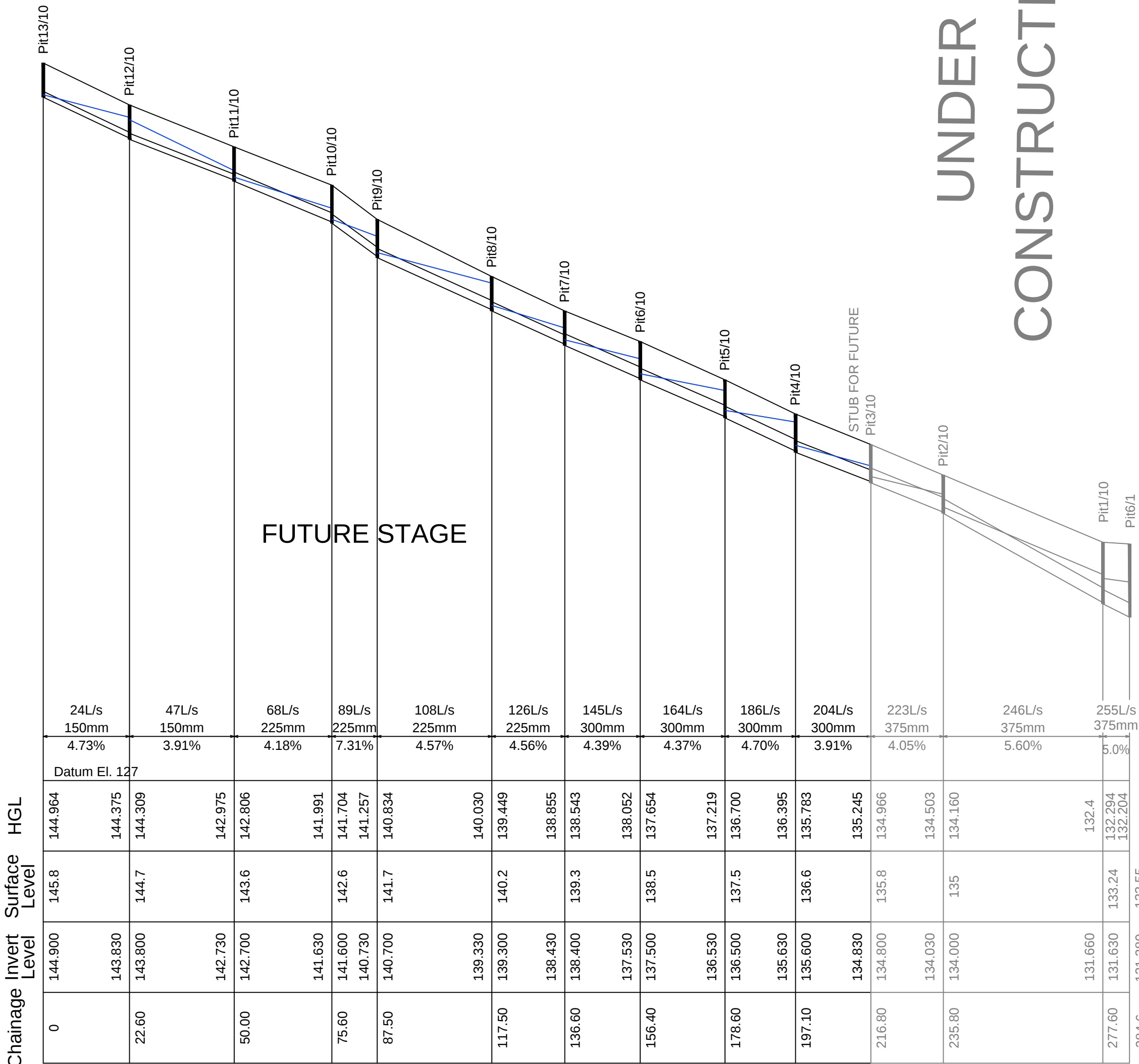
Line 7



Line 8



Line 9



Line 10

UNDER
CONSTRUCTION



Line 11



Line 12

UNDER
CONSTRUCTION

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STORMWATER LINES 7 TO 12
LONGITUDINAL SECTIONS
HIGHFIELDS, DENMAN
STAGE 2-5 CONCEPT DESIGN

REV: A

H.SCALE
1:500
VERT. SCALE
1:100
DATUM
AHD
CONTOUR INTERVAL

MICHAEL COLE Registered Land Surveyor

CLIENT: HIGHFIELDS PTY LIMITED

DATE
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FILE
216218_2-5 CON DES

PLAN ISSUE

A DA - CONCEPT DESIGN

LGA: MUSWELLBROOK

PARISH: DENMAN

COUNTY: BRISBANE

SHEET

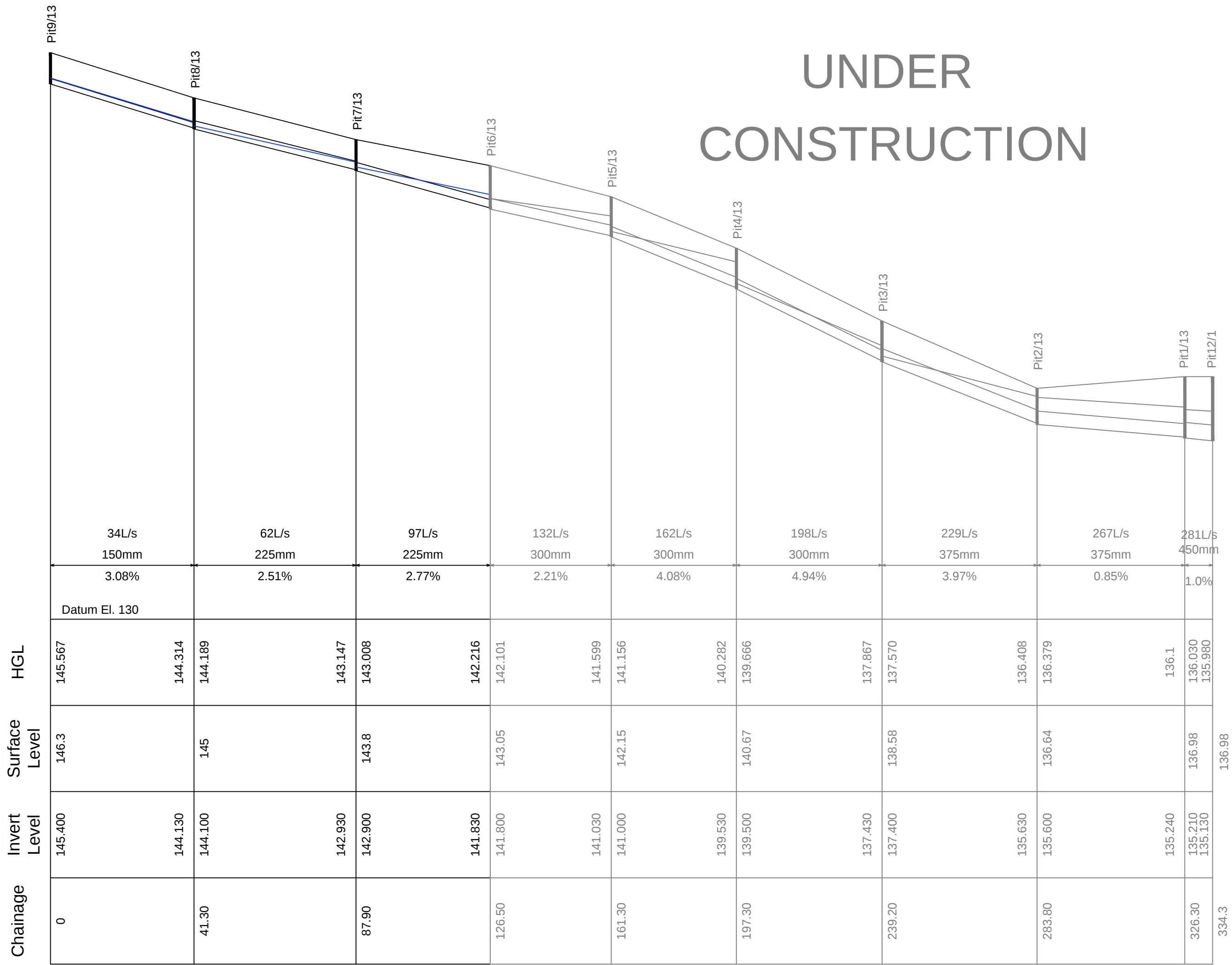
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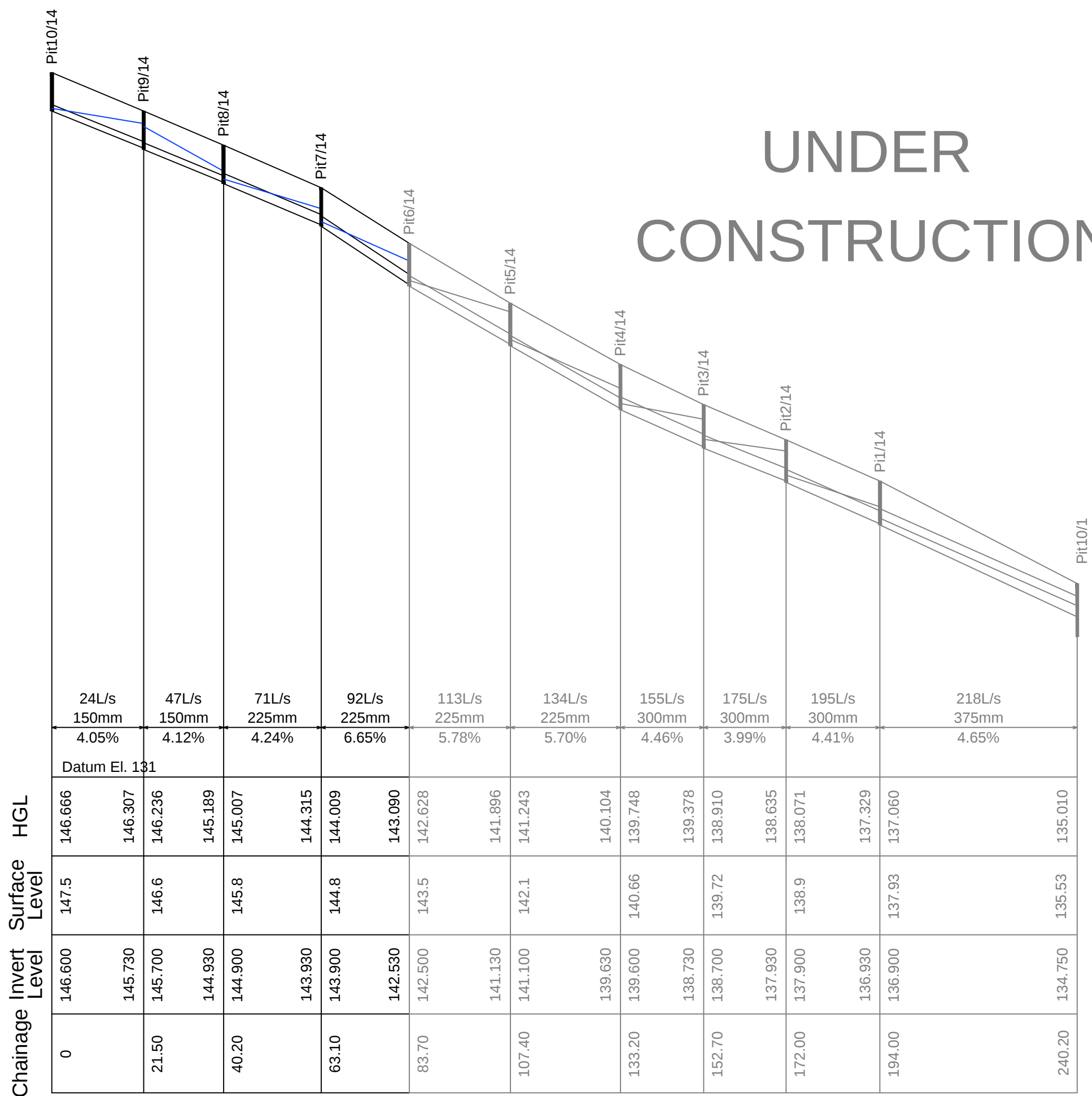
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ALL INTERALLOTMENT DRAINAGE PIPES SHALL BE VINIDEX - STORMWATER PRO OR UPVC
HGL SHOWN IS 1 IN 10 YEAR STORM
ALL FINISHED SURFACE LEVELS FOR PITS ARE GRATE LEVEL.



Line 13



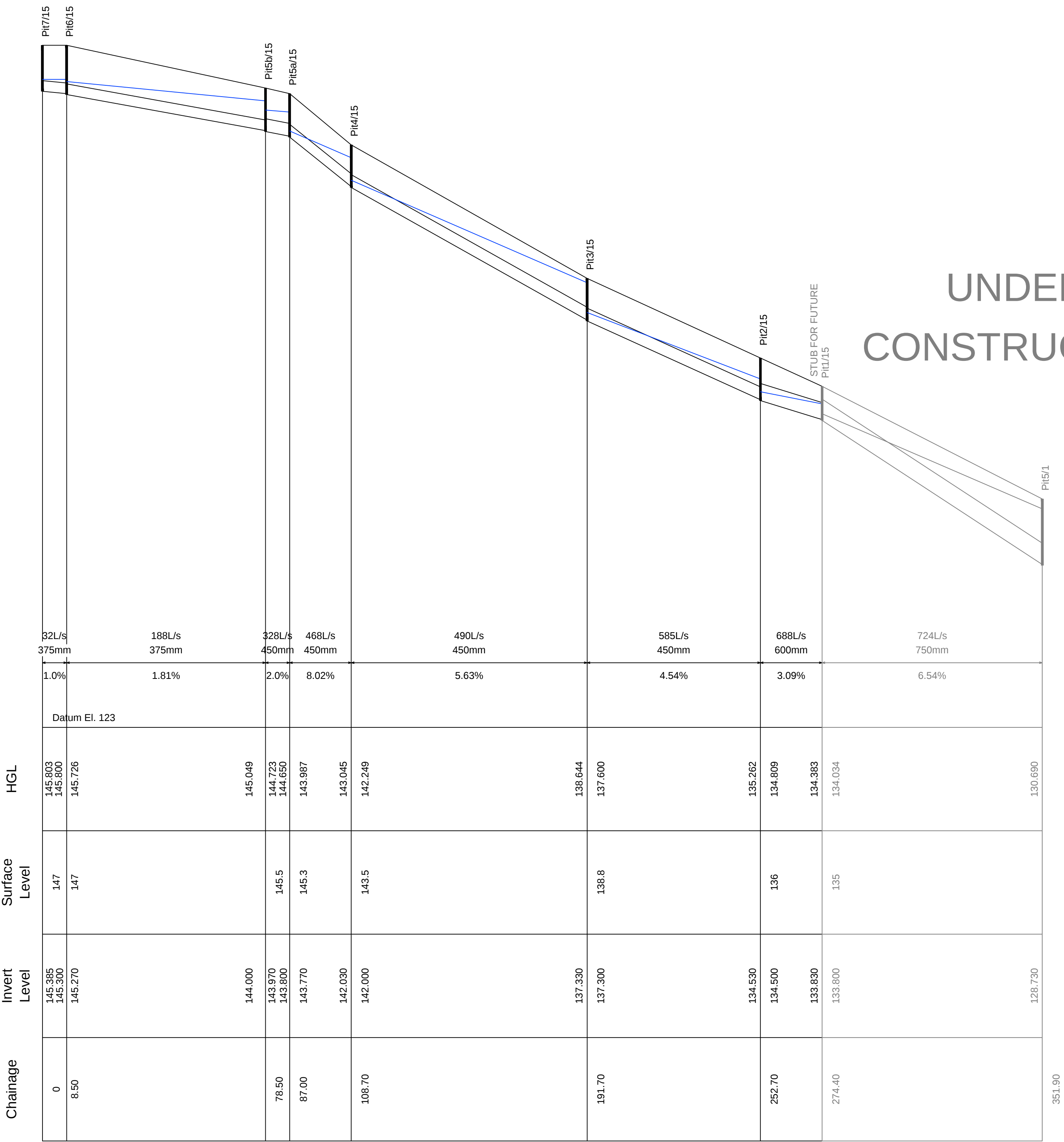
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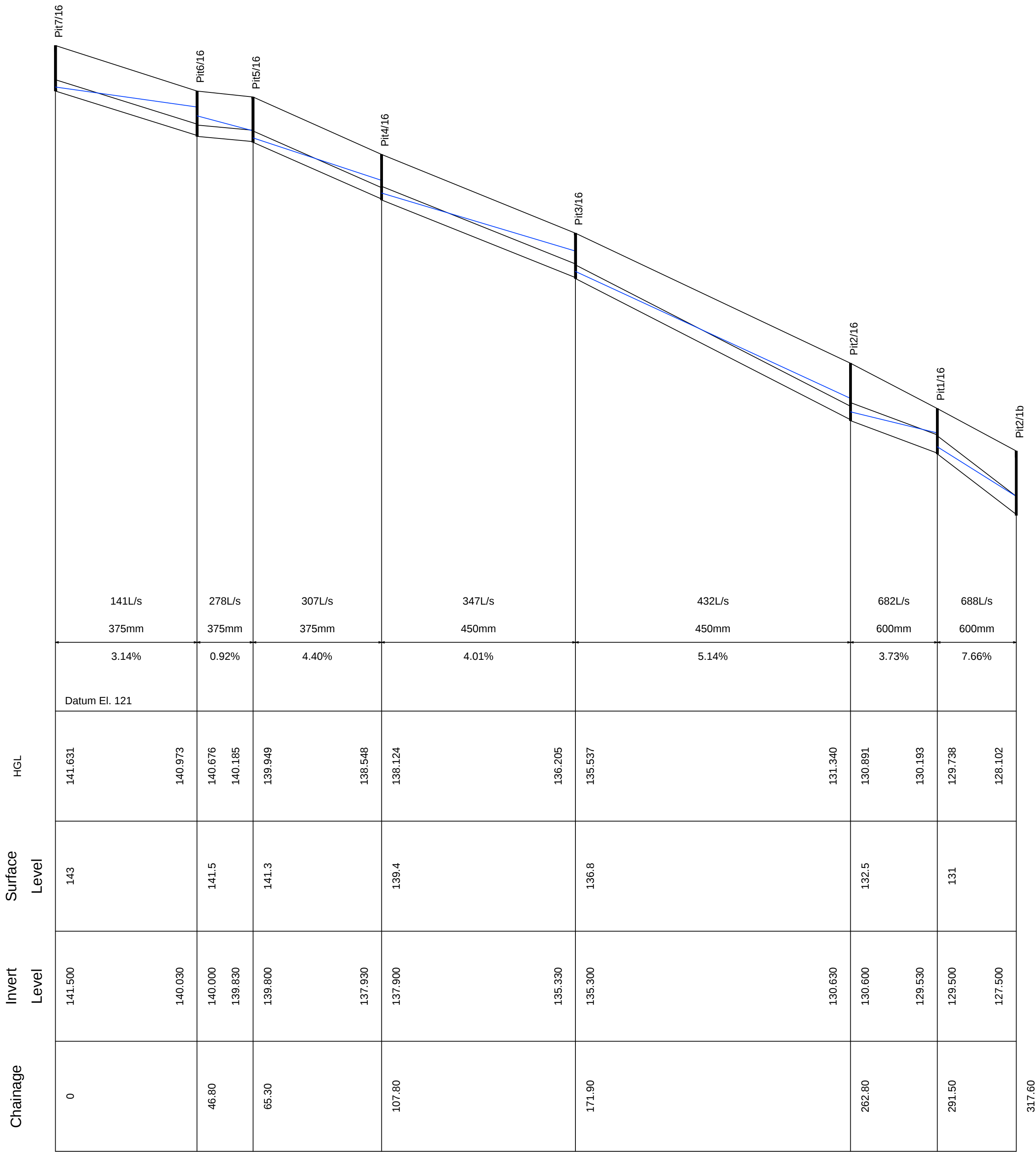
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ALL FINISHED SURFACE LEVELS FOR PITS ARE GRATE LEVEL.

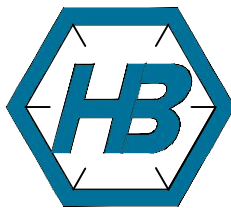
UNDER
CONSTRUCTION



Line 15

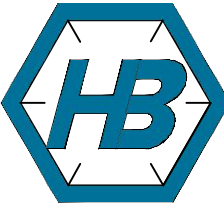
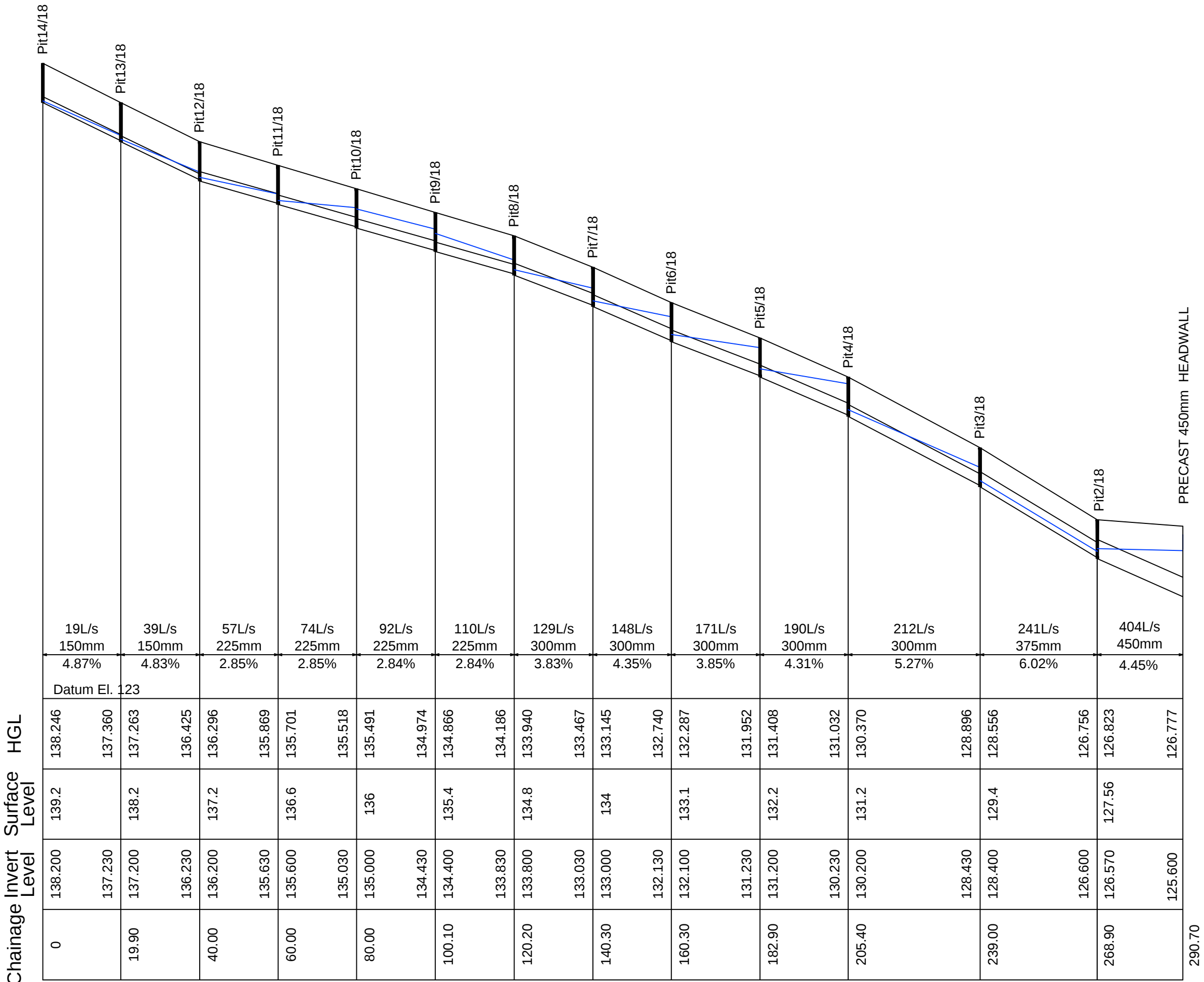
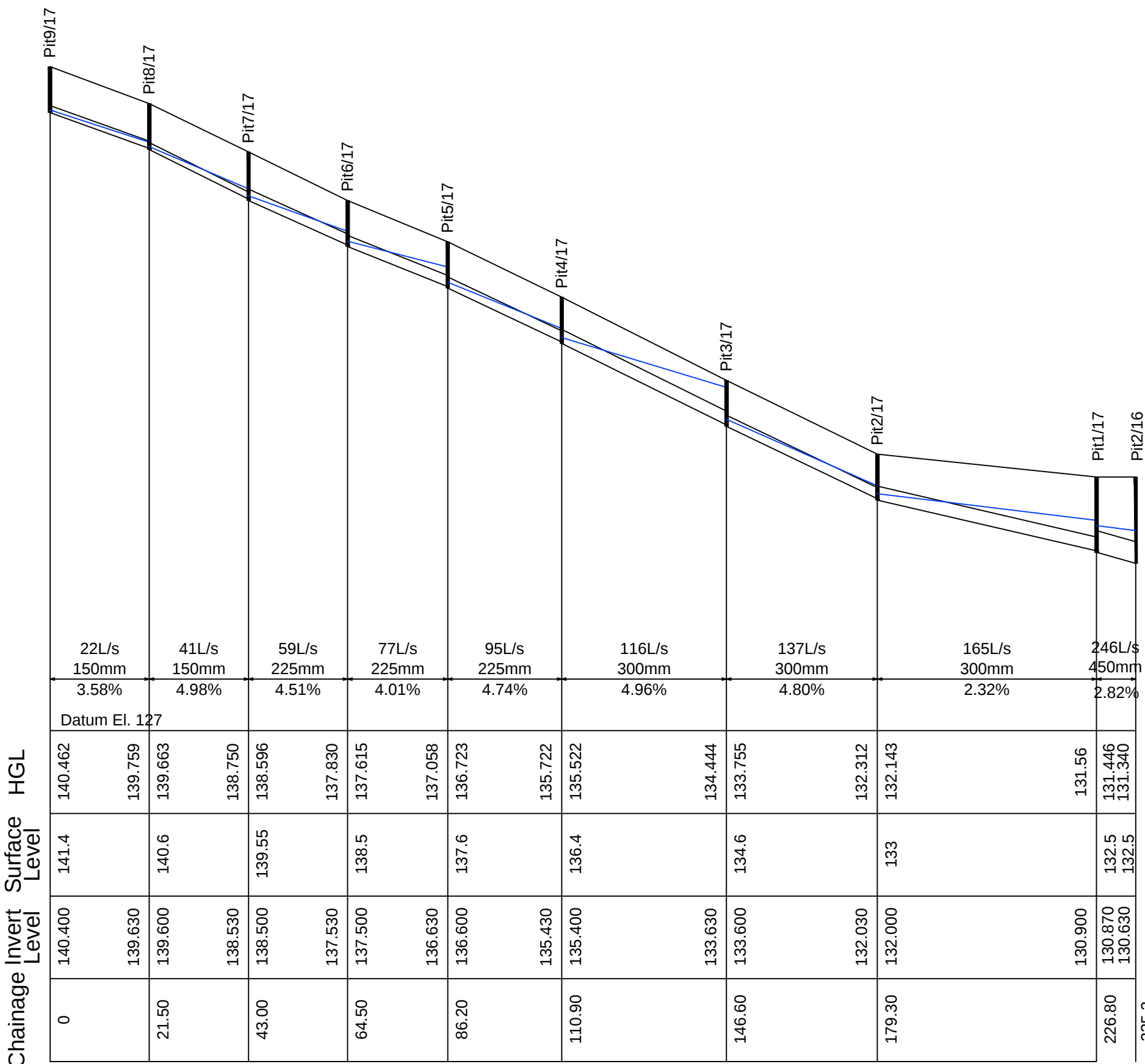


Line 16



DA ONLY - NOT FOR CONSTRUCTION

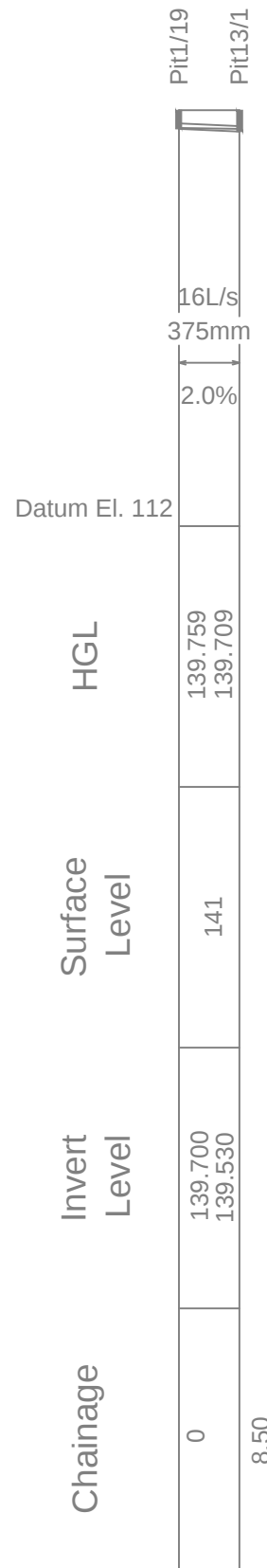
ALL STORMWATER PIPES UNDER ROAD SHALL BE RCP RRJ CLASS 3
ALL INTERALLOTMENT DRAINAGE PIPES SHALL BE VINIDEX - STORMWATER PRO OR UPVC
HGL SHOWN IS 1 IN 10 YEAR STORM
ALL FINISHED SURFACE LEVELS FOR PITS ARE GRATE LEVEL.



DA ONLY - NOT FOR CONSTRUCTION

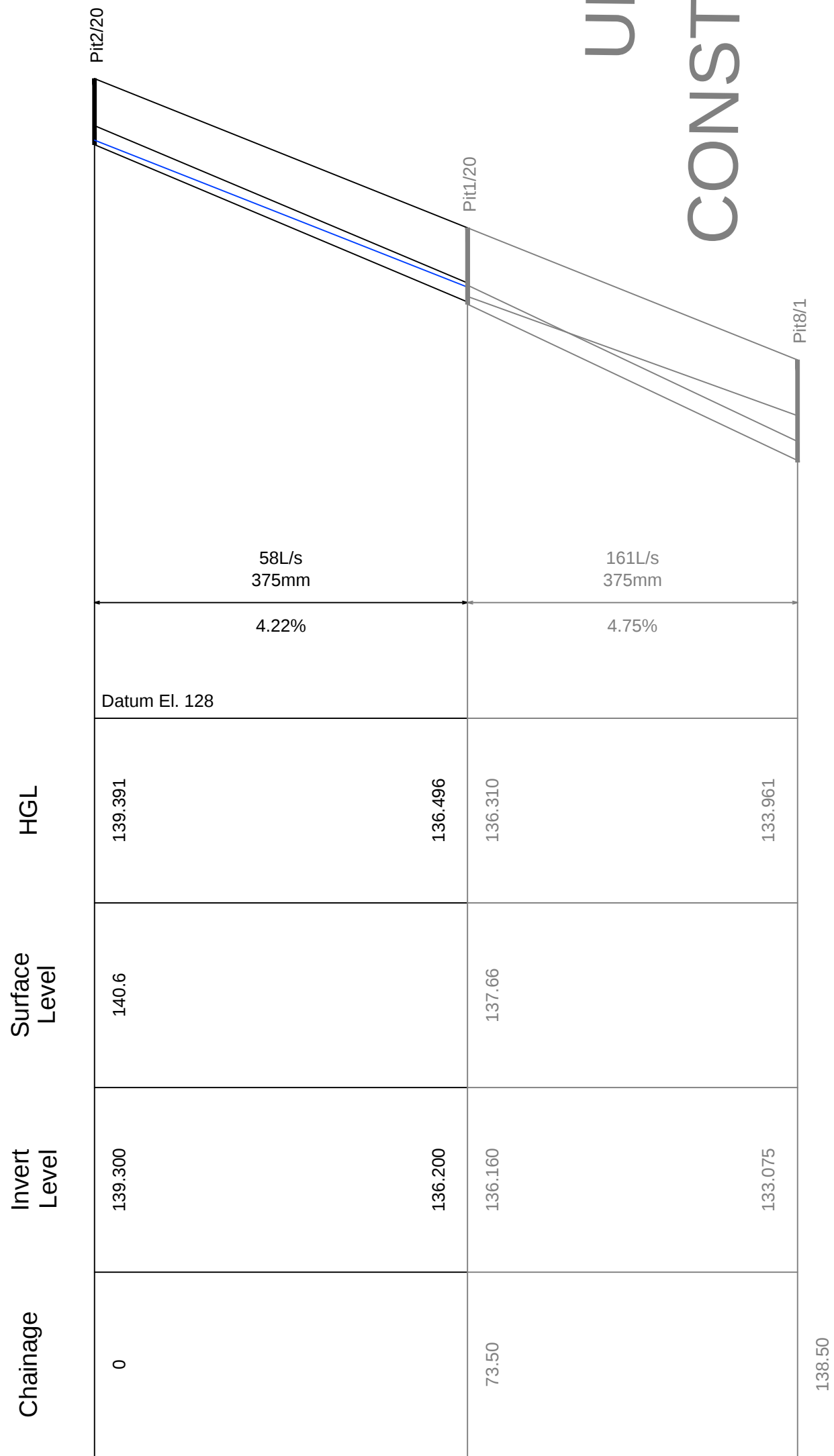
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UNDER
CONSTRUCTION



Line 19

UNDER
CONSTRUCTION

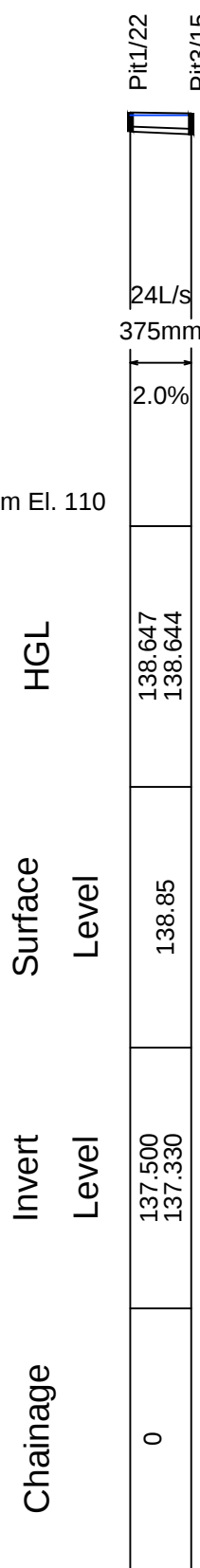


Line 20

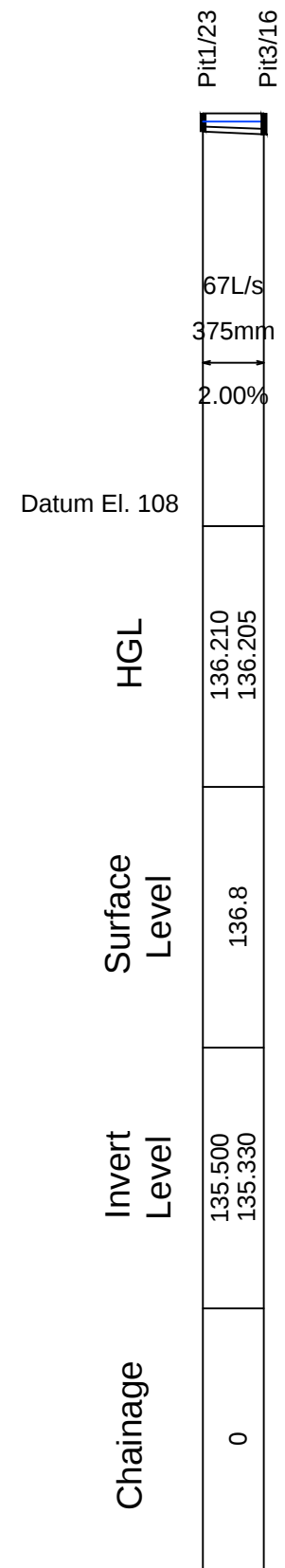
UNDER
CONSTRUCTION



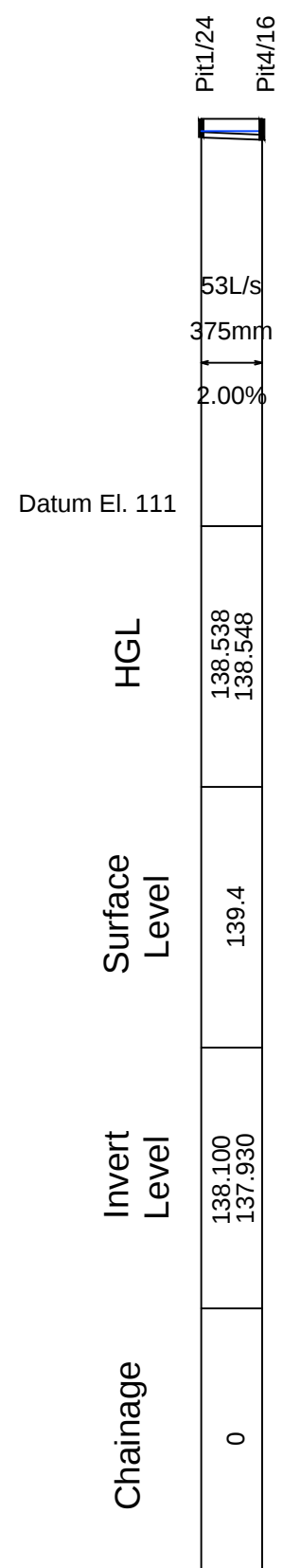
Line 21



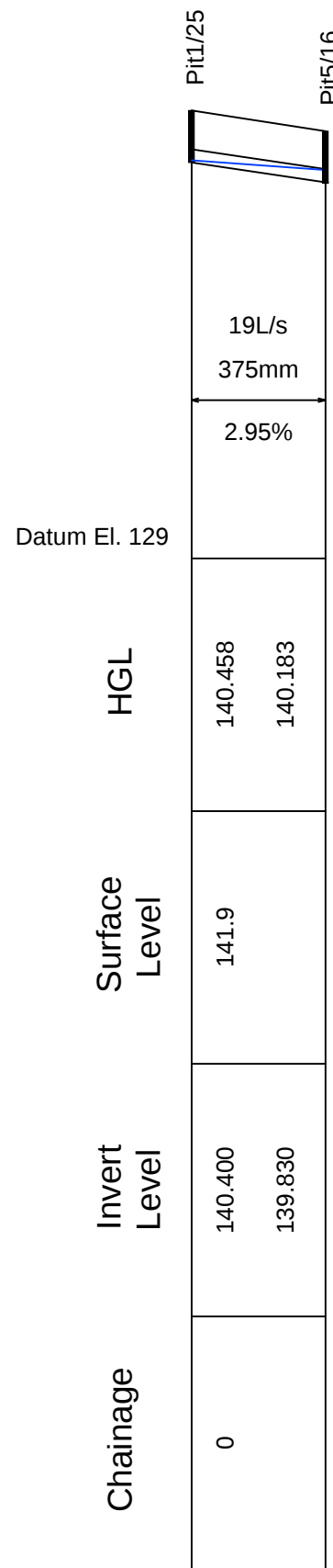
Line 22



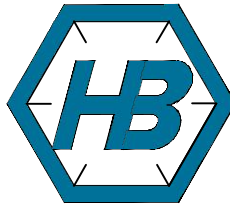
Line 23



Line 24



Line 25



FULL SITE DRAINAGE SYSTEM WITH DETENTION BASIN
WORST CASE STORM

STORM	PRE -DEVELOPMENT m3/s	POST DEVELOPMENT m3/s
1:5	0.953	0.742
1:10	1.43	0.898
1:20	2.04	1.131
1:50	2.73	1.691
1:100	3.36	2.217

MINOR EVENT FOR PIPED SYSTEM

MAJOR EVENT

