

10+00
VR49

SCALE (METRES) 1 : 750



GENERAL NOTES:
 1. HORIZONTAL POSITIONING BY TRIMBLE GNSS RTK GPS RECEIVER, TO UTM GRID ZONE 10, NAD 83.
 2. THIS PLAN SHOWS / USES GRID DISTANCES
 3. ELEVATIONS ARE GEODETIC CGVD28
 4. ALIGNMENT STATIONING STARTS AT VEDDER CROSSING BRIDGE, SEE CONTROL DRAWING FOR LAYOUT
 5. ALL INFORMATION OF THIS PLAN IS REPRESENTATIVE OF CONDITIONS AT TIME OF SURVEY.

LEGEND:
 - 1. 1981 Survey Ground Line.
 - 2. 1996 Survey Ground Line.
 - 3. 2020 Top Water Surface Date of Section Survey.
 - 4. 2018 Survey Ground Line
 - 5. 2020 Survey Ground Line.



NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

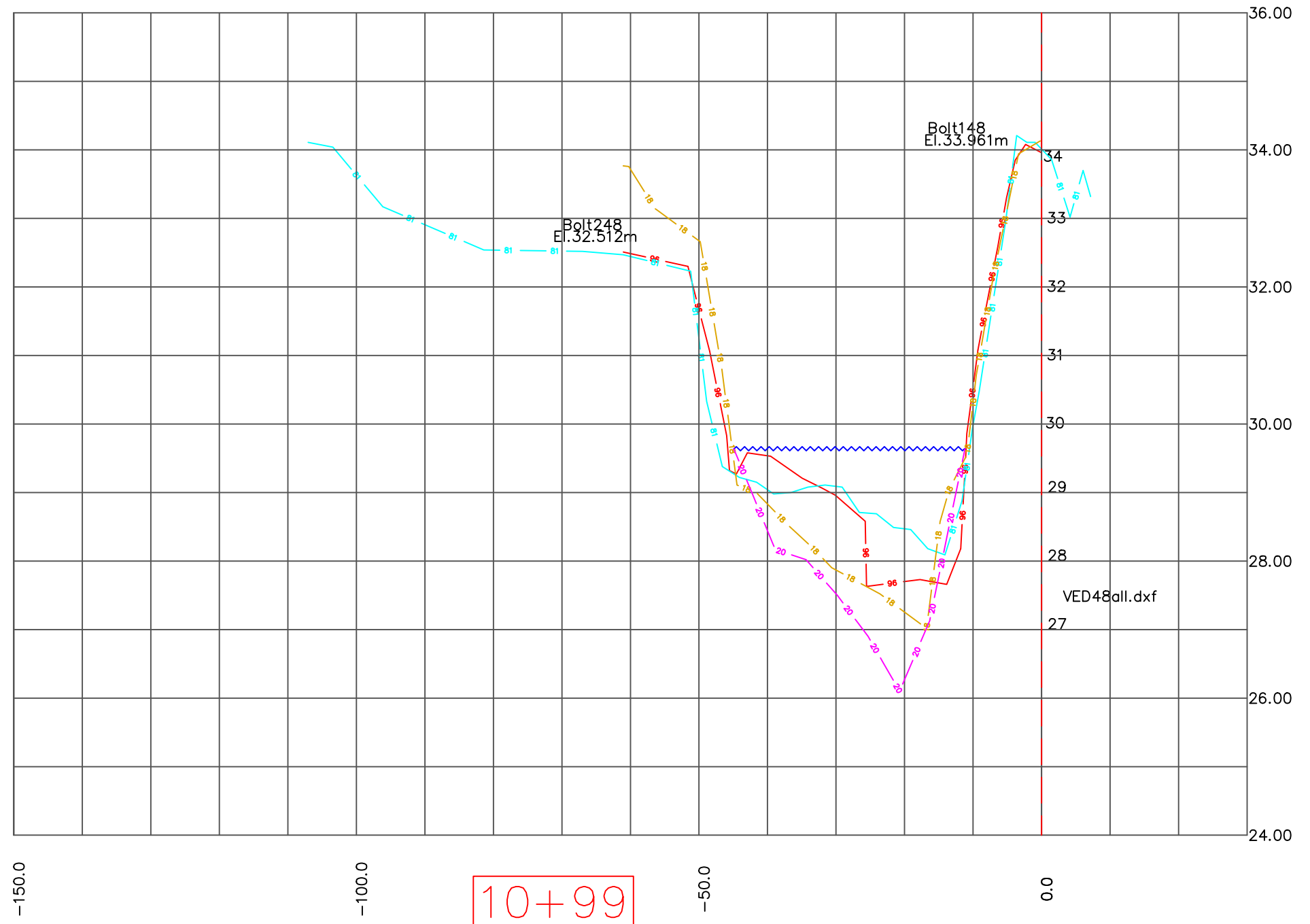
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

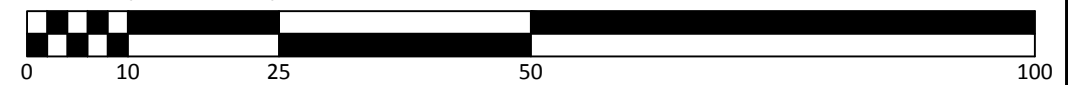
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



10+99
VR48

SCALE (METRES) 1 : 750



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LEGEND:
 - Cyan line with square: 1. 1981 Survey Ground Line.
 - Red line with square: 2. 1996 Survey Ground Line.
 - Blue wavy line: 3. 2020 Top Water Surface Date of Section Survey.
 - Yellow line with square: 4. 2018 Survey Ground Line
 - Magenta line with square: 5. 2020 Survey Ground Line.

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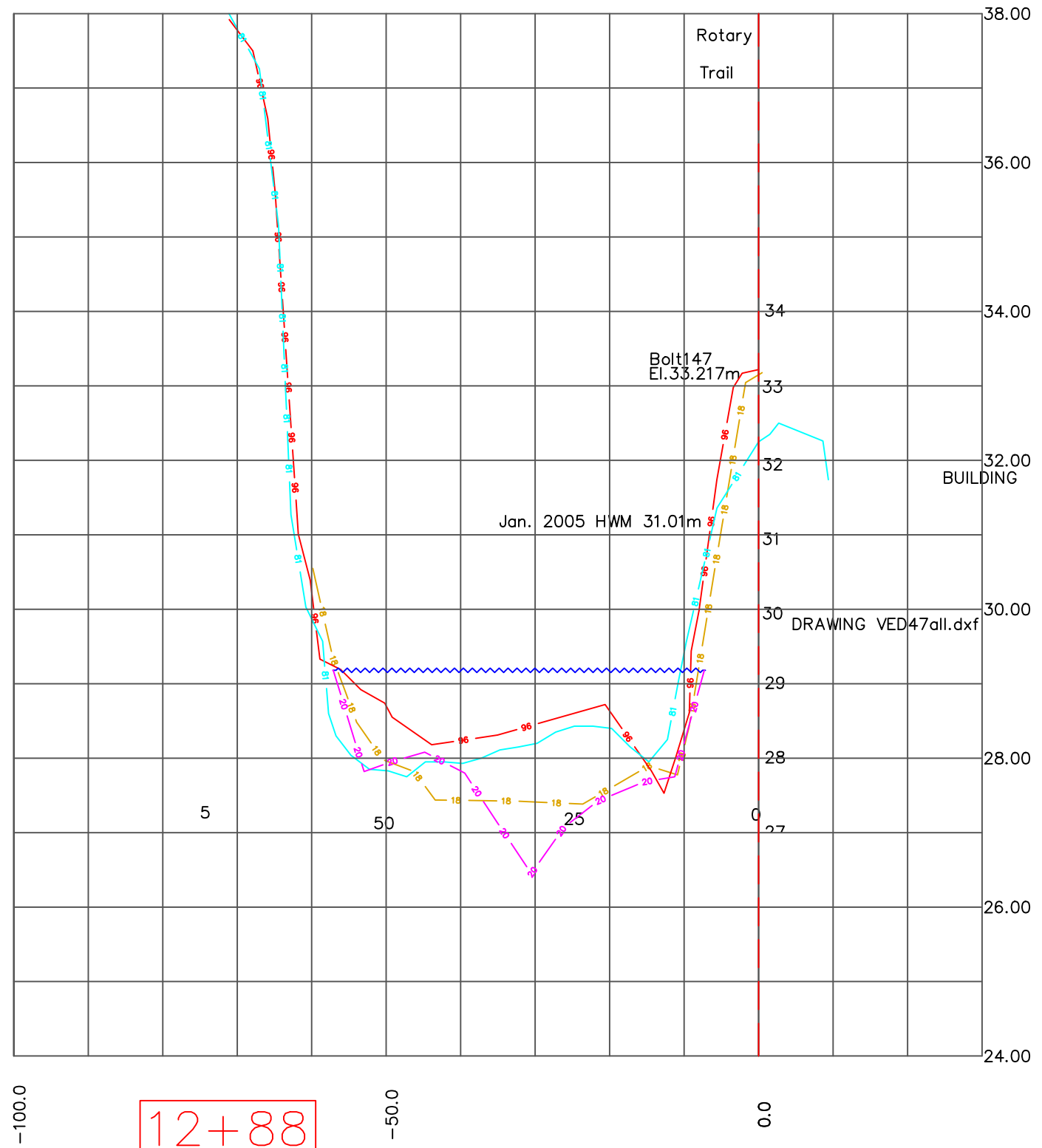
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1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



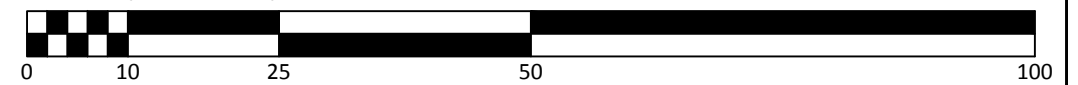
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12+88
VR47

-50.0

0.0

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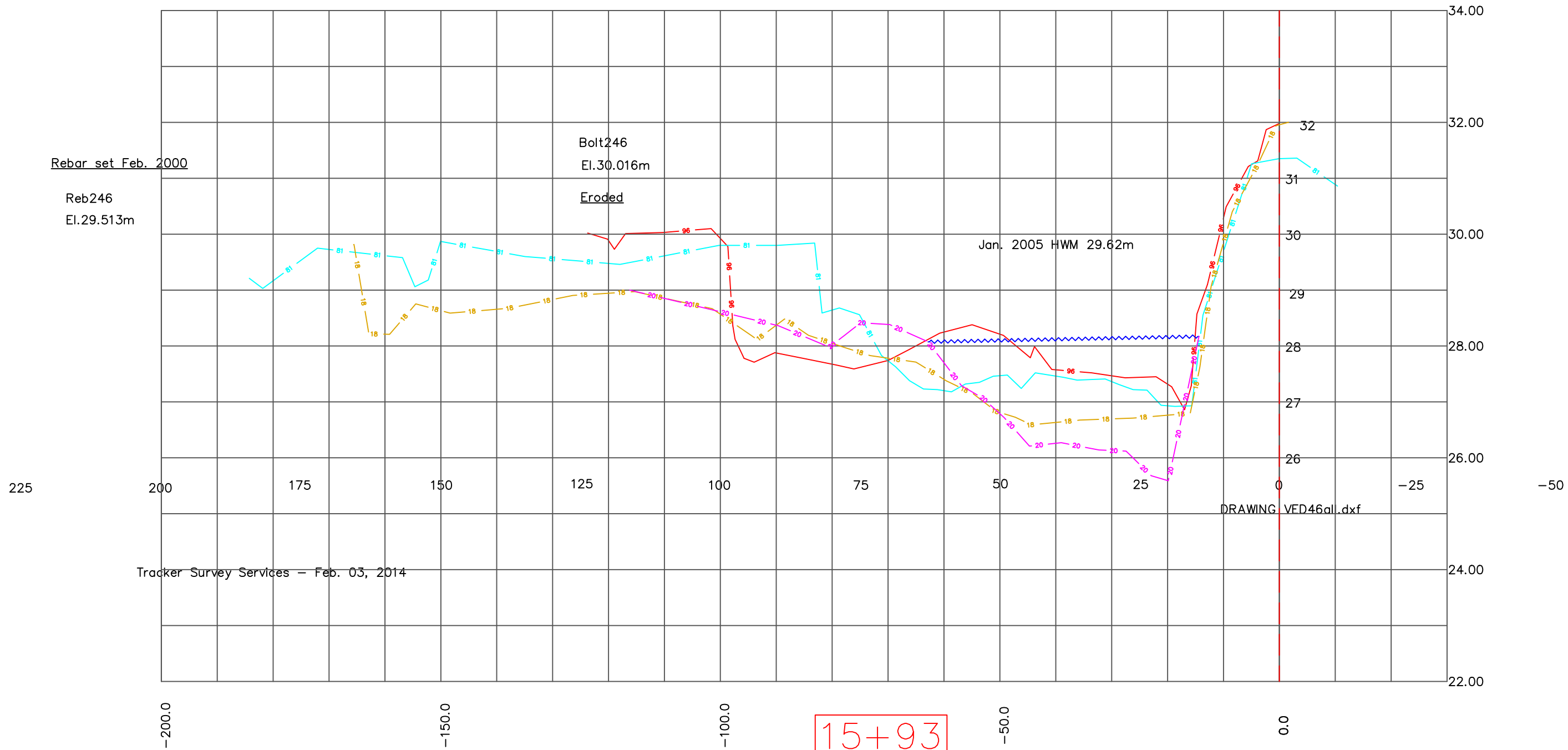
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1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



Rebar set Feb. 2000

Reb246
El.29.513m

Bolt246
El.30.016m

Eroded

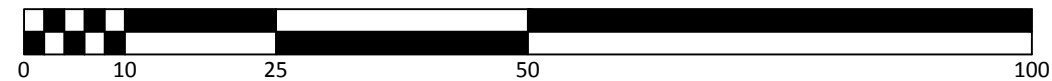
Jan. 2005 HWM 29.62m

DRAWING VED46all.dxf

Tracker Survey Services – Feb. 03, 2014

15+93
VR46

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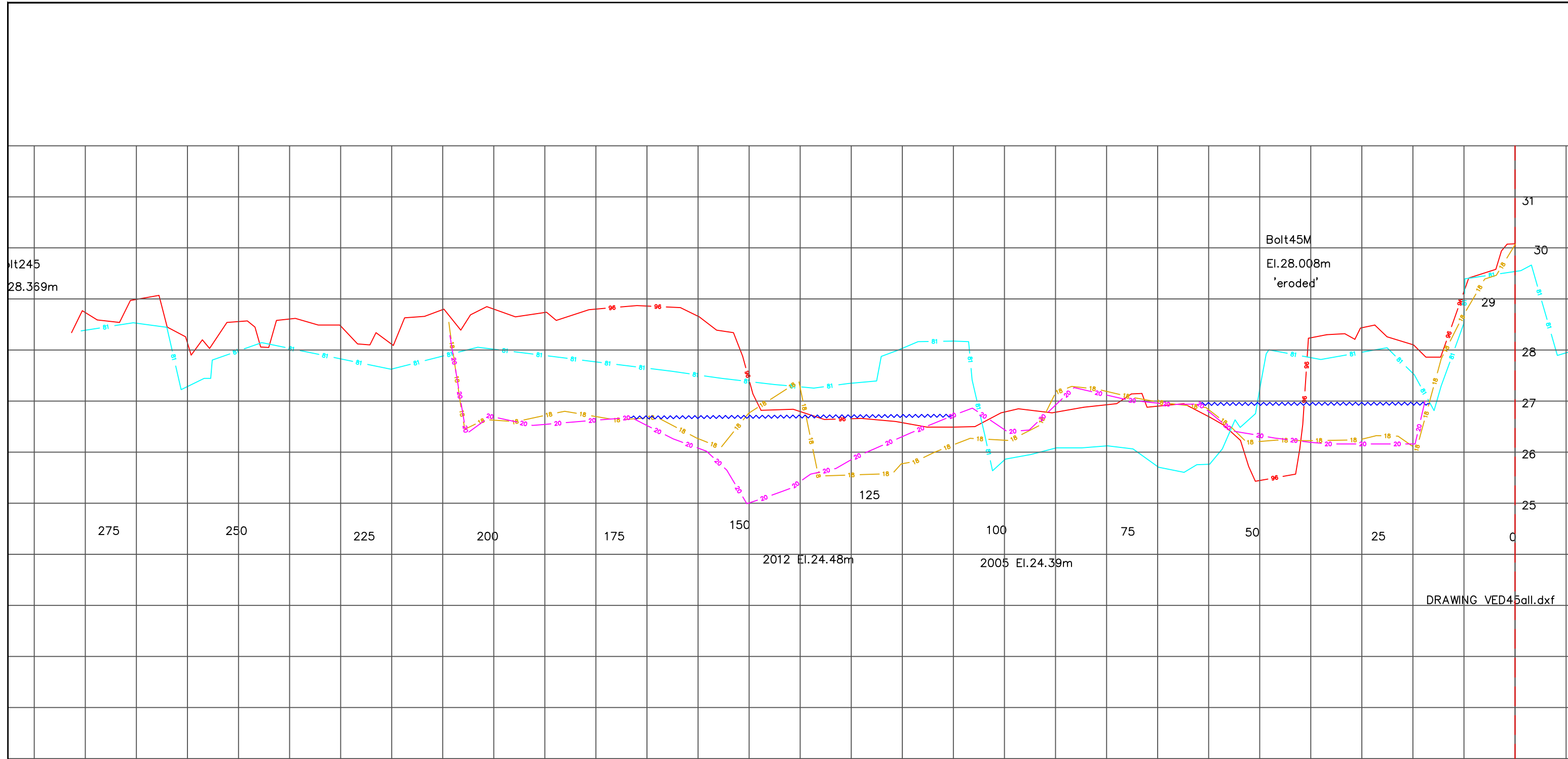
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CLIENT: CITY OF CHILLIWACK	SURVEYED BY: HAH	DATE: Jan - Feb 2020
PROJECT: 2020 VEDDER RIVER SURVEY	C3D AUTOCAD BY: PK/HAH	DATE: Mar 2020

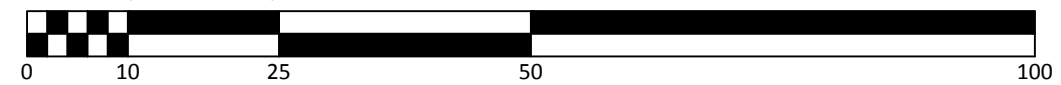
DRAWING TITLE: 2020 VEDDER RIVER SURVEY 1981,1996,2018 & 2020 RIVER SECTIONS	SCALE: 1:750 / 1:75 Sections
JOB NUMBER: 649-20	Pg 1 of 53
DRAWING NUMBER: 649 030 / 2020	REV 0



DRAWING VED45all.dxf

18+58
VR45

SCALE (METRES) 1 : 750



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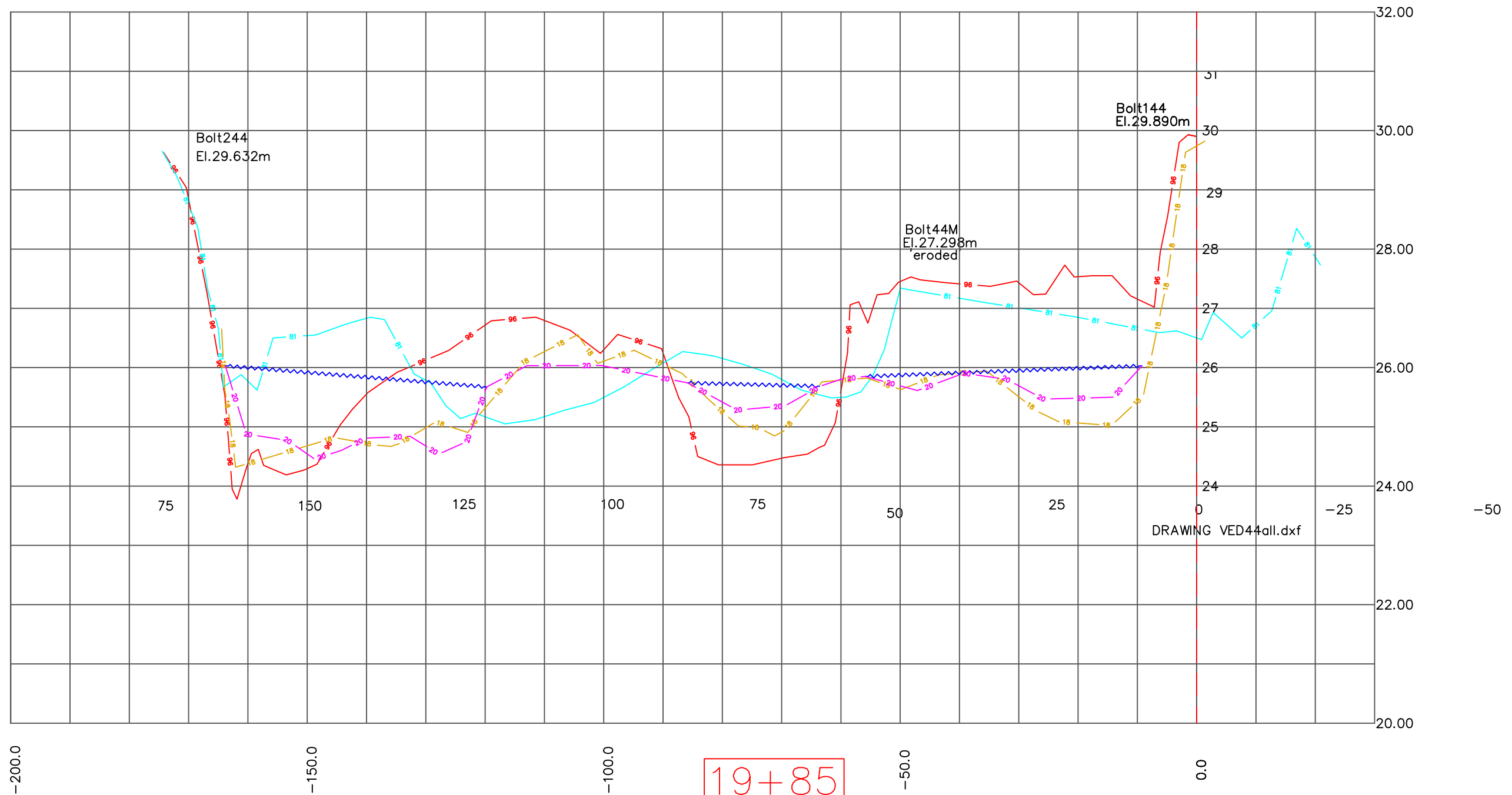
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1981,1996,2018 & 2020
RIVER SECTIONS

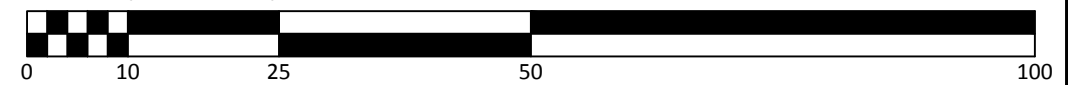
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED44all.dxf

SCALE (METRES) 1 : 750



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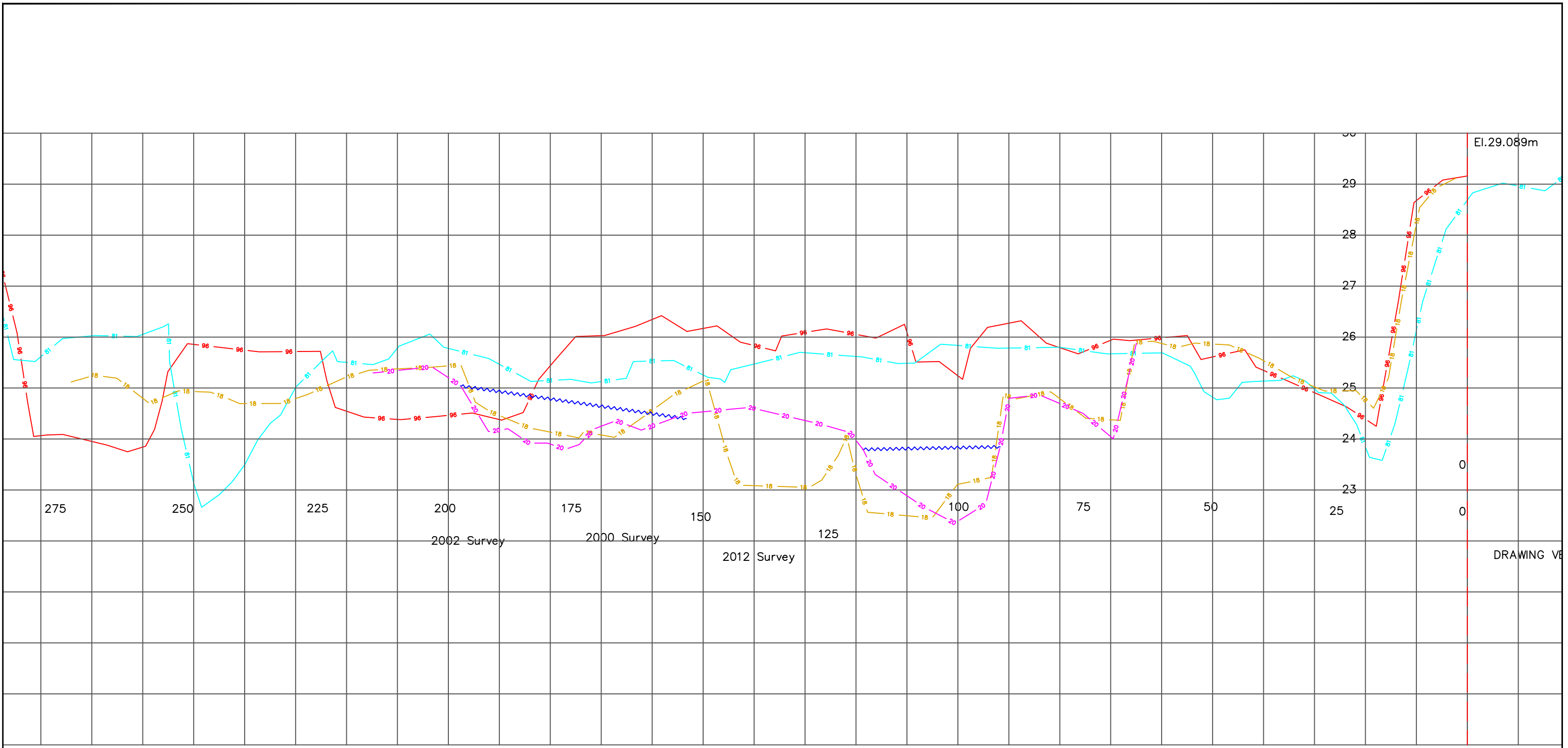
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 1981,1996,2018 & 2020
 RIVER SECTIONS
 SCALE: 1:750 / 1:75 Sections
 JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



EI.29.089m

275

250

225

200

175

150

125

100

75

50

25

0

2002 Survey

2000 Survey

2012 Survey

DRAWING VR

-250.0

-200.0

-150.0

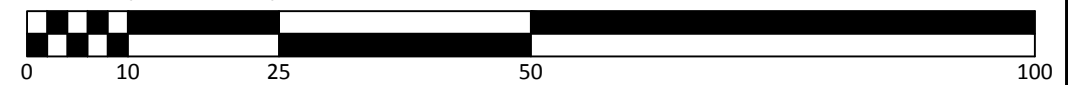
-100.0

-50.0

0.0

22+10
VR43

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CITY OF CHILLIWACK

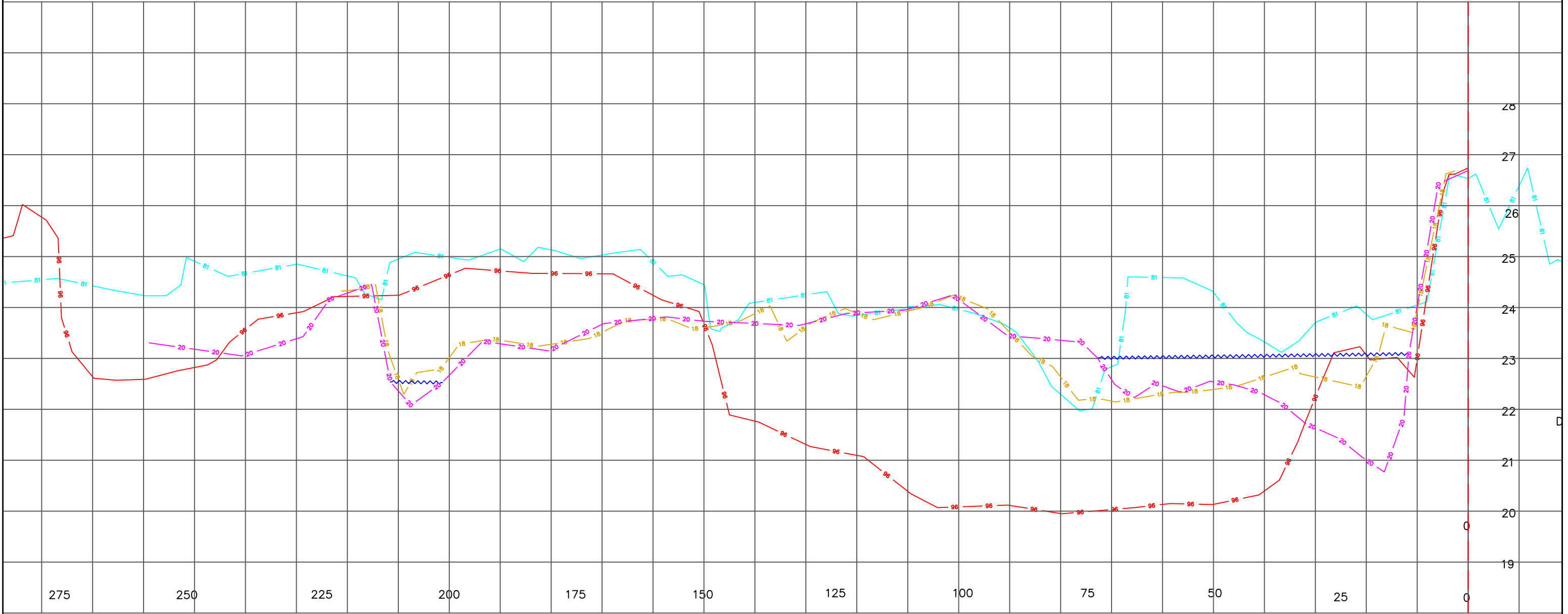
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1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

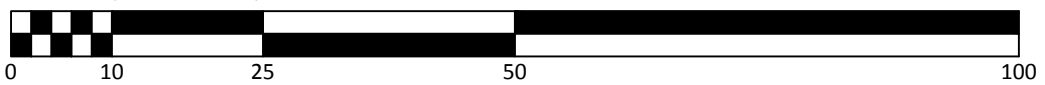
JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



-250.0
-200.0
-150.0
-100.0
-50.0
0.0

24+49
 VR42

SCALE (METRES) 1 : 750



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CITY OF CHILLIWACK

PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020

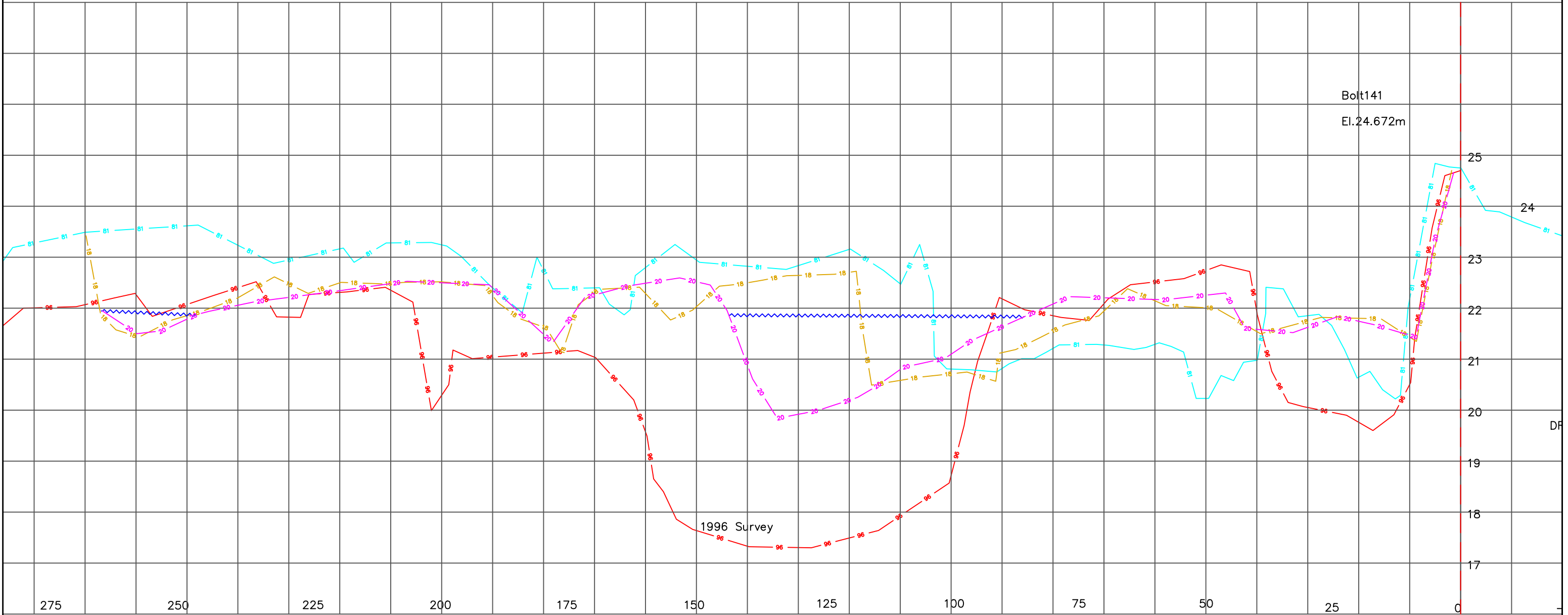
C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53

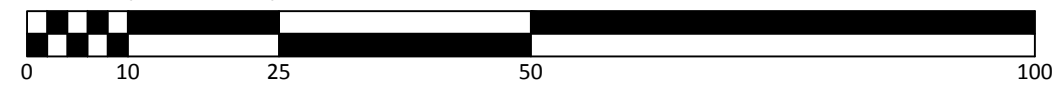
DRAWING NUMBER: 649 030 / 2020 REV 0



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27+87
VR41

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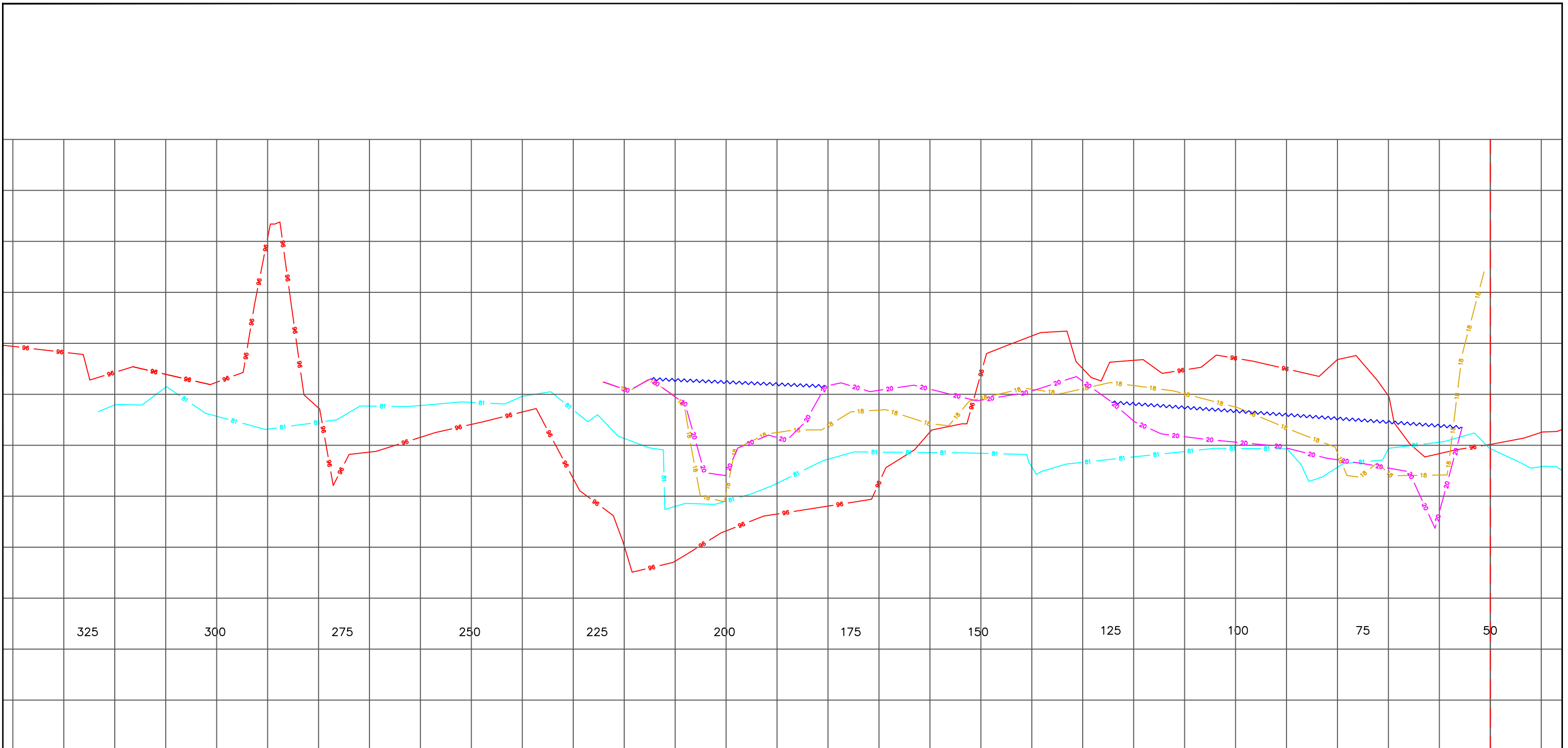
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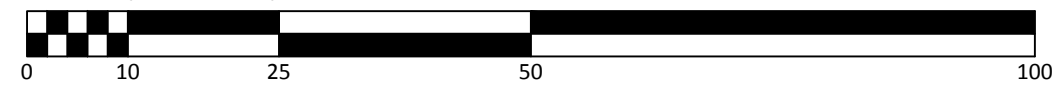


325 300 275 250 225 200 175 150 125 100 75 50

-250.0 -200.0 -150.0 -100.0 -50.0 0.0

30+15
VR40

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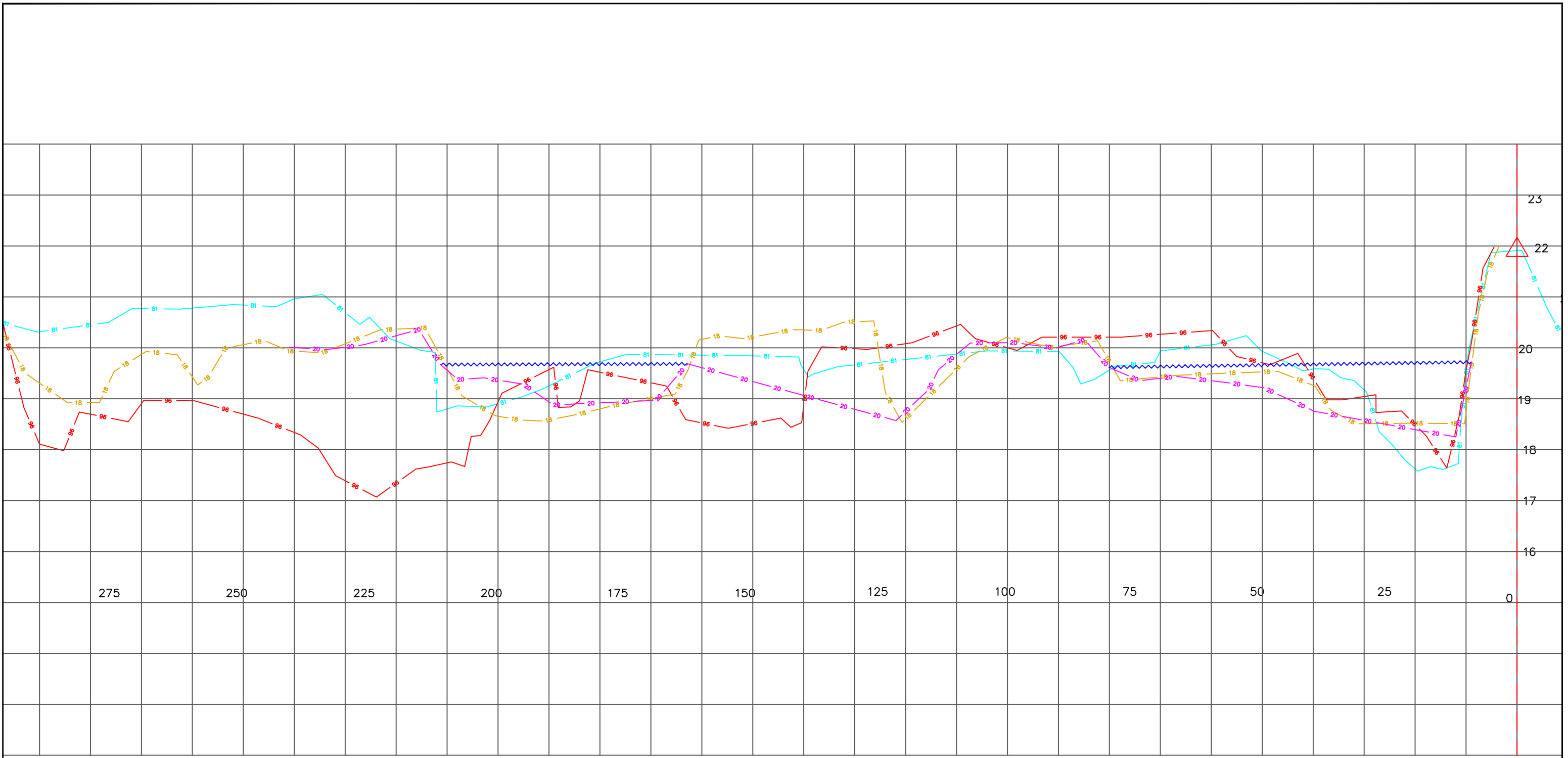
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32+63
VR39

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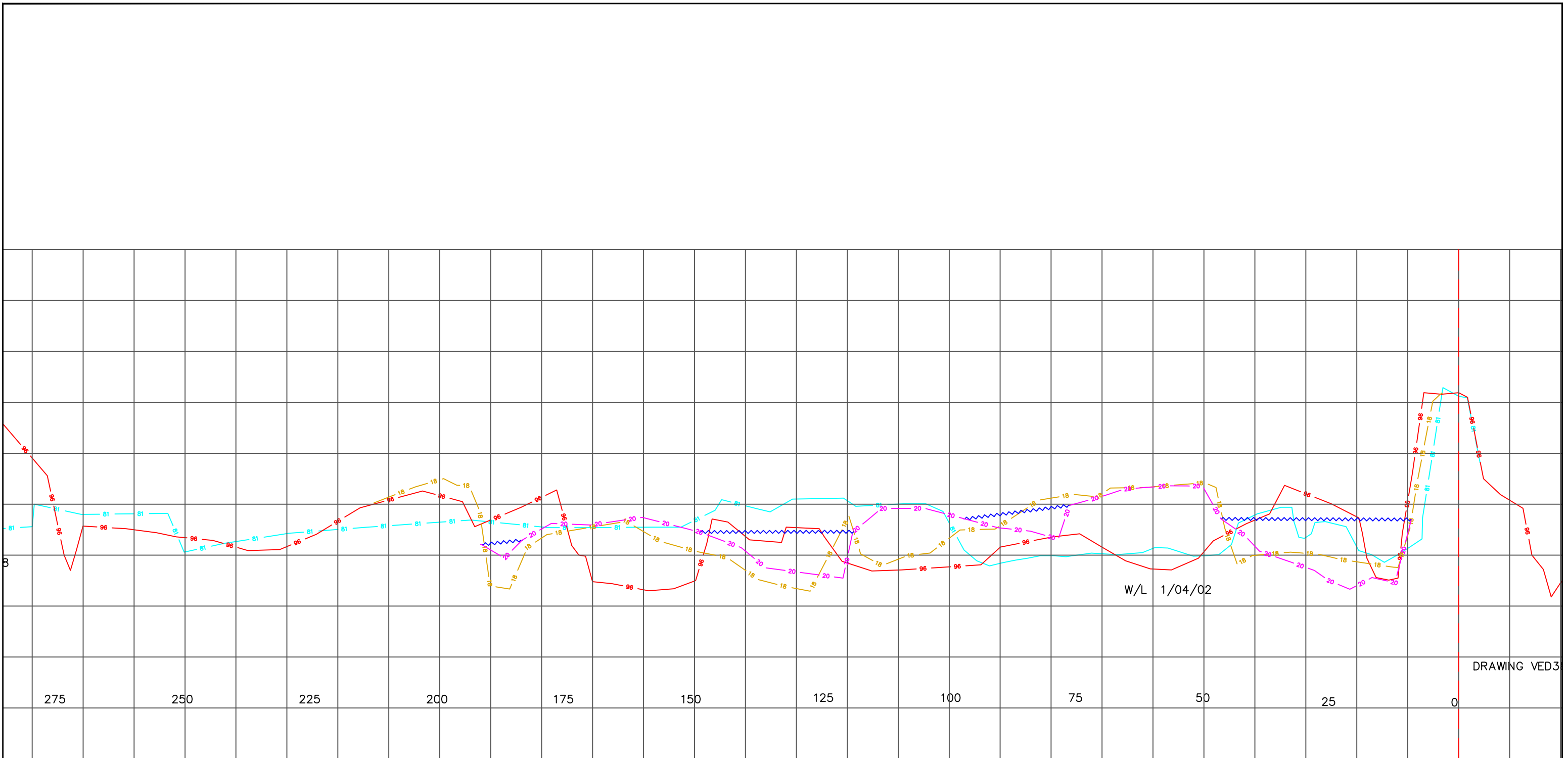
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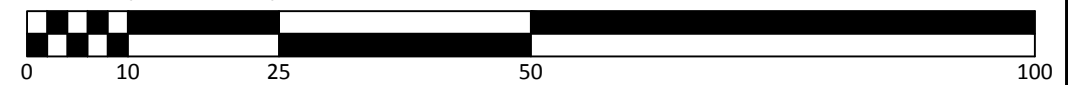
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DRAWING VED3

34+84
VR38

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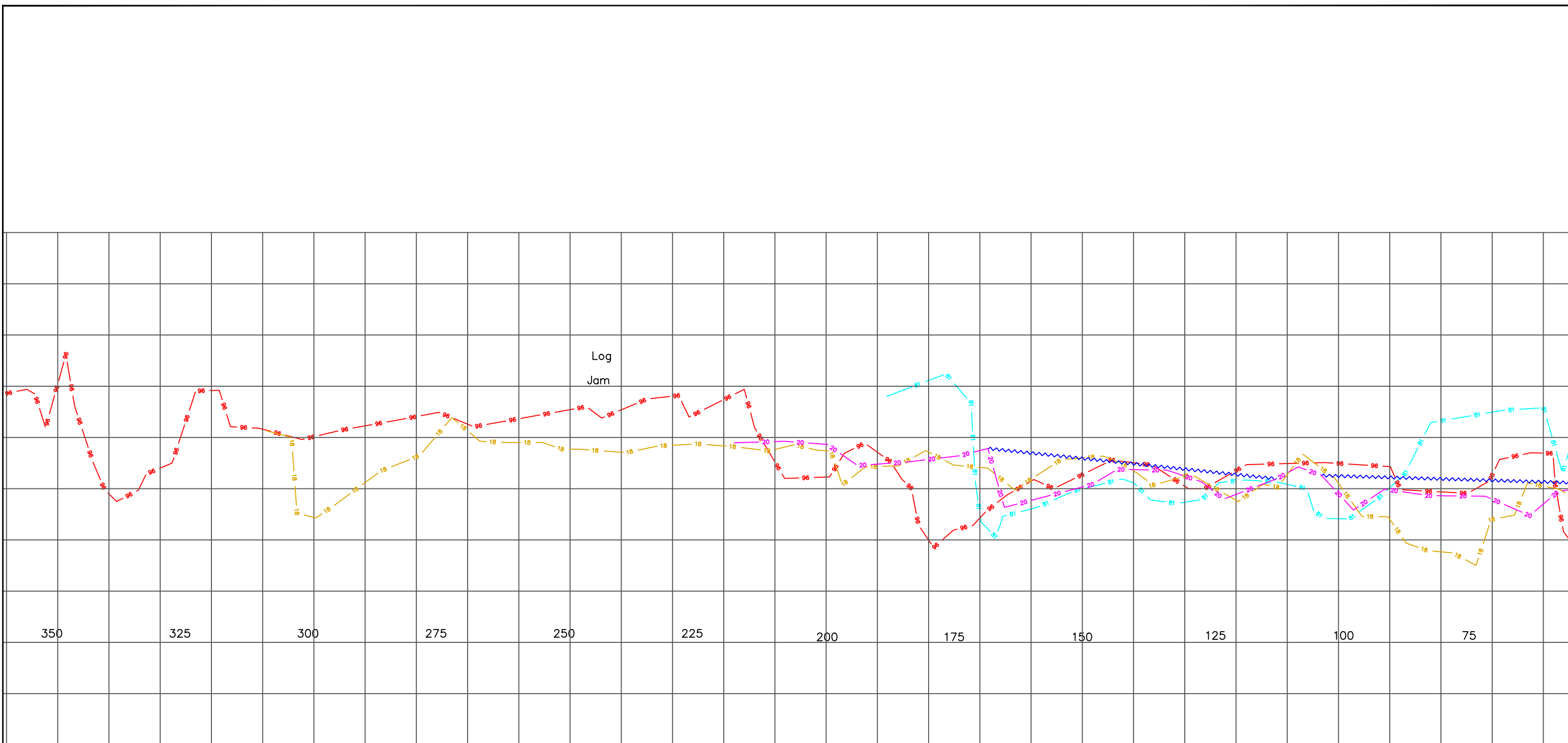
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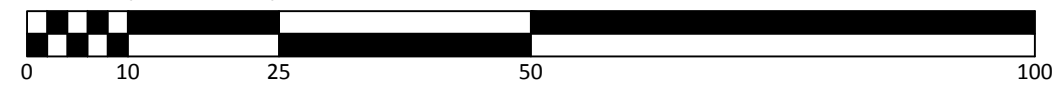


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-350.0 -300.0 -250.0 -200.0 -150.0 -100.0

37+91
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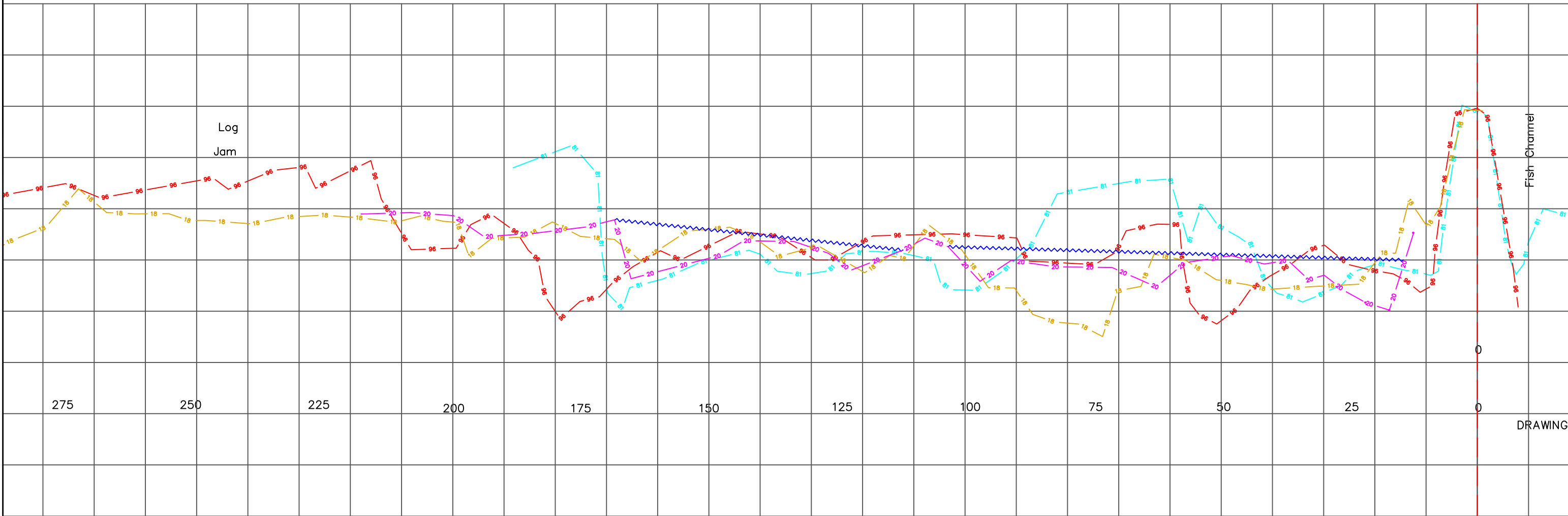
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 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0

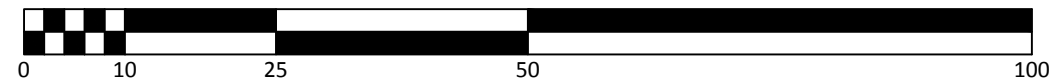


275 250 225 200 175 150 125 100 75 50 25 0 0 DRAWING

-250.0 -200.0 -150.0 -100.0 -50.0 0.0

37+91
VR37

SCALE (METRES) 1 : 750



- GENERAL NOTES:**
- HORIZONTAL POSITIONING BY TRIMBLE GNSS RTK GPS RECEIVER, TO UTM GRID ZONE 10, NAD 83.
 - THIS PLAN SHOWS / USES GRID DISTANCES
 - ELEVATIONS ARE GEODETIC CGVD28
 - ALIGNMENT STATIONING STARTS AT VEDDER CROSSING BRIDGE, SEE CONTROL DRAWING FOR LAYOUT
 - ALL INFORMATION OF THIS PLAN IS REPRESENTATIVE OF CONDITIONS AT TIME OF SURVEY.

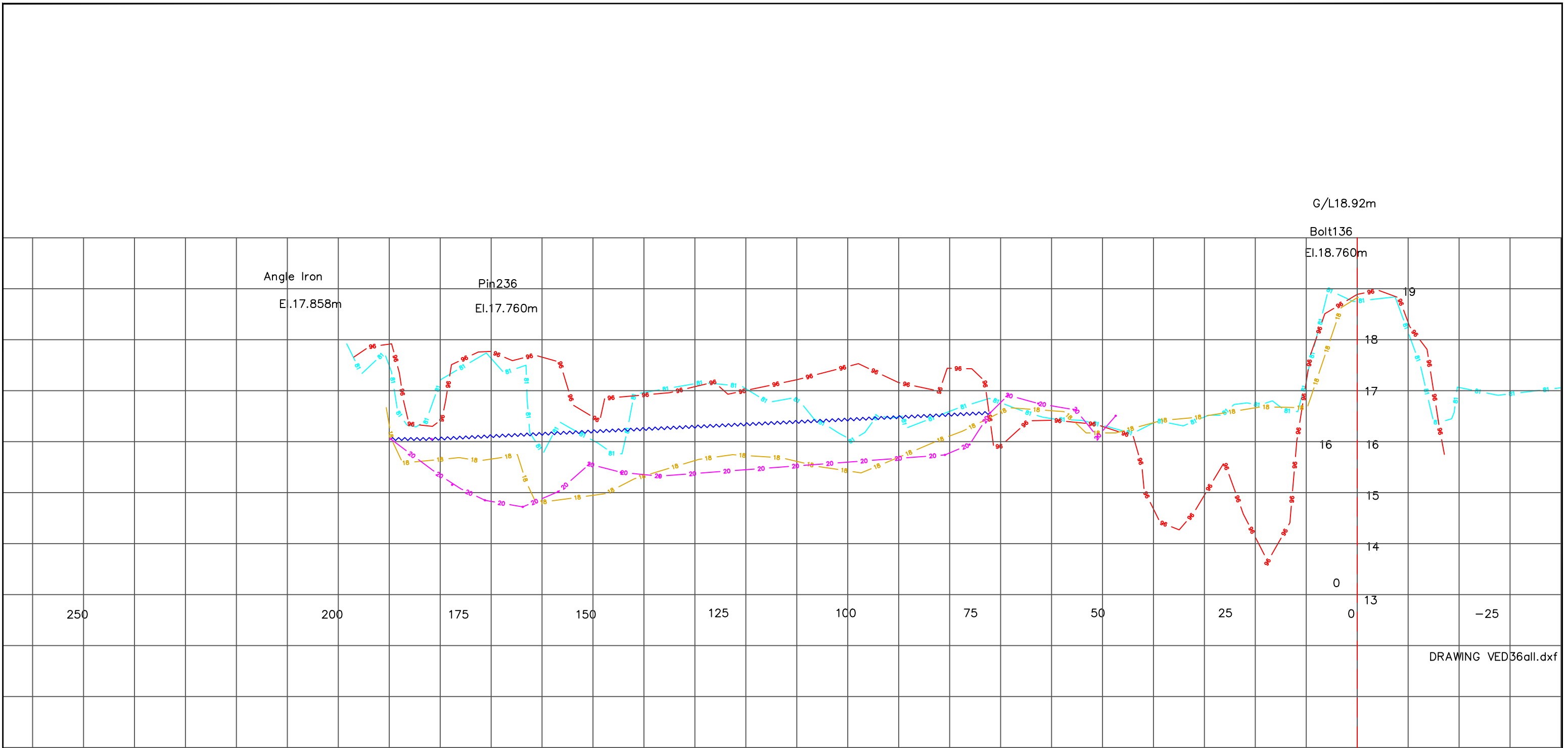
- LEGEND:**
- 1. 1981 Survey Ground Line.
 - 2. 1996 Survey Ground Line.
 - 3. 2020 Top Water Surface Date of Section Survey .
 - 4. 2018 Survey Ground Line
 - 5 2020 Survey Ground Line.



NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT: CITY OF CHILLIWACK	SURVEYED BY: HAH DATE: Jan - Feb 2020
PROJECT: 2020 VEDDER RIVER SURVEY	
C3D AUTOCAD BY: PK/HAH DATE: Mar 2020	DATE: Mar 2020

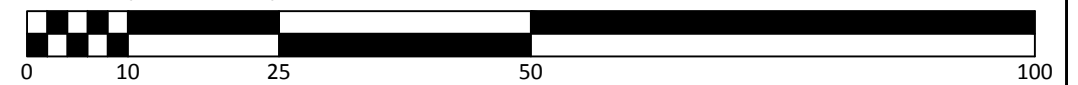
DRAWING TITLE: 2020 VEDDER RIVER SURVEY 1981,1996,2018 & 2020 RIVER SECTIONS	SCALE: 1:750 / 1:75 Sections
JOB NUMBER: 649-20	Pg 1 of 53
DRAWING NUMBER: 649 030 / 2020	REV 0



DRAWING VED36all.dxf

40+20
VR36

SCALE (METRES) 1 : 750



GENERAL NOTES:
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 3. ELEVATIONS ARE GEODETIC CGVD28
 4. ALIGNMENT STATIONING STARTS AT VEDDER CROSSING BRIDGE, SEE CONTROL DRAWING FOR LAYOUT
 5. ALL INFORMATION OF THIS PLAN IS REPRESENTATIVE OF CONDITIONS AT TIME OF SURVEY.

LEGEND:
 - 1. 1981 Survey Ground Line.
 - 2. 1996 Survey Ground Line.
 - 3. 2020 Top Water Surface Date of Section Survey.
 - 4. 2018 Survey Ground Line
 - 5. 2020 Survey Ground Line.

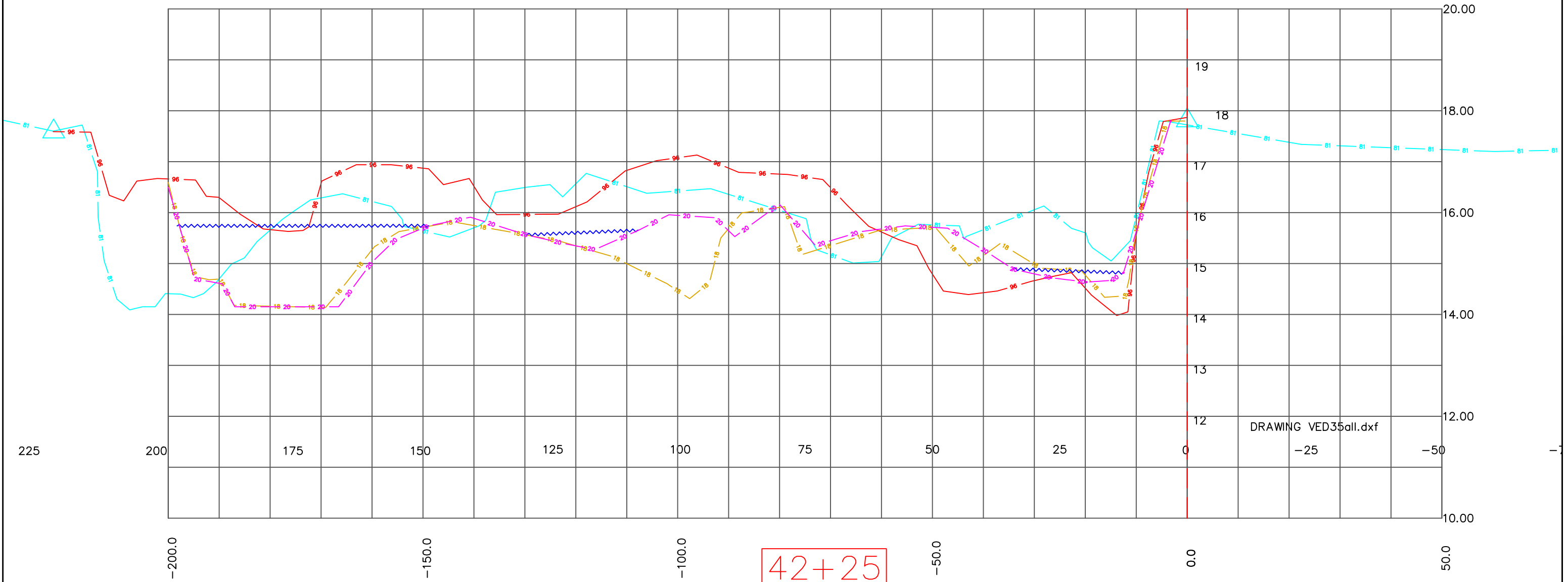


NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:

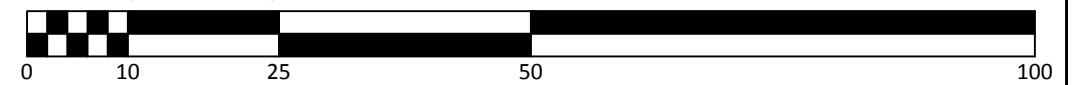
 PROJECT:
 2020 VEDDER RIVER SURVEY

DRAWING TITLE:
 2020 VEDDER RIVER SURVEY
 1981,1996,2018 & 2020
 RIVER SECTIONS
 SCALE: 1:750 / 1:75 Sections
 JOB NUMBER: 649-20
 DRAWING NUMBER: 649 030 / 2020
 Pg 1 of 53
 REV 0



42+25
VR35

SCALE (METRES) 1 : 750



GENERAL NOTES:
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LEGEND:
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 - - - 5. 2020 Survey Ground Line.


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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

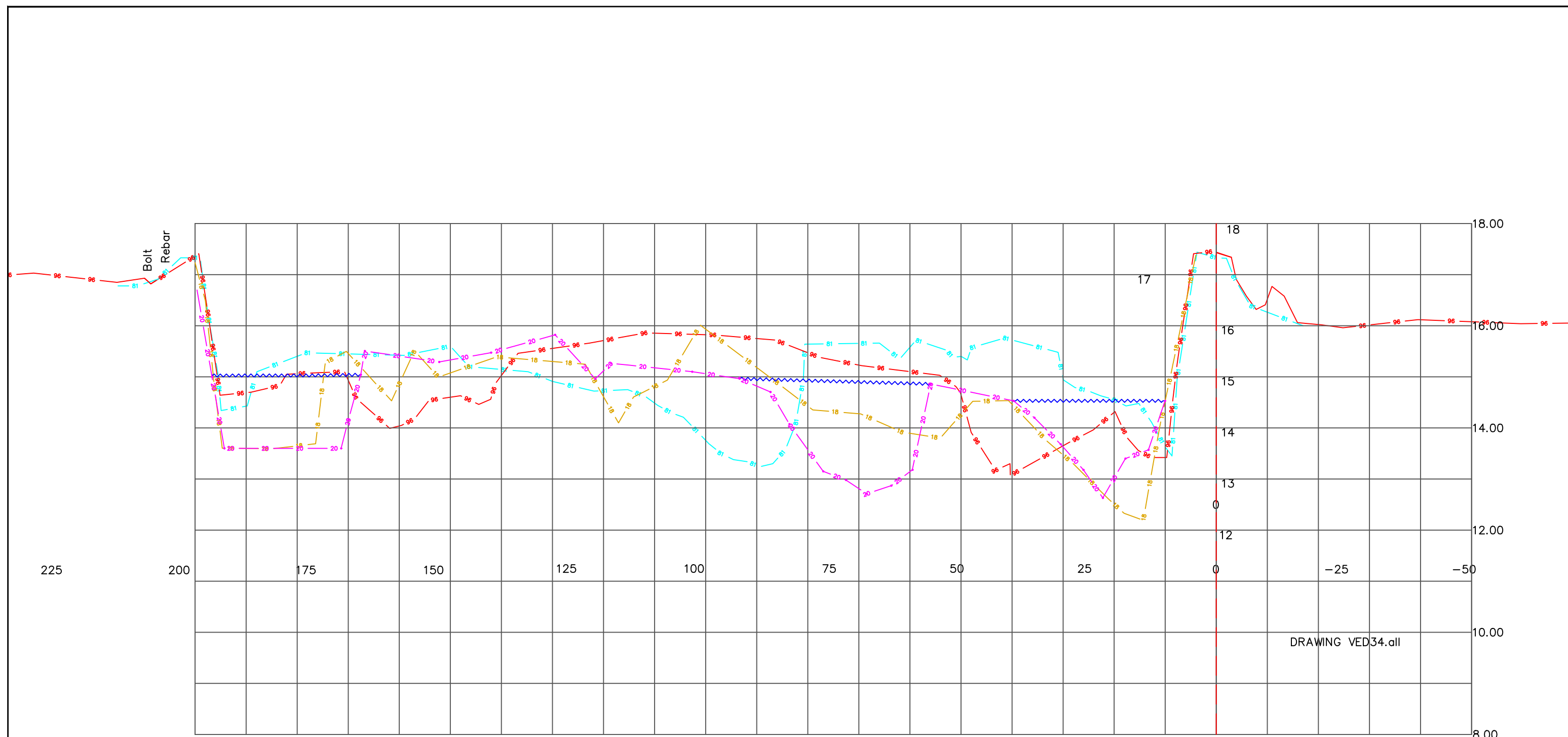
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

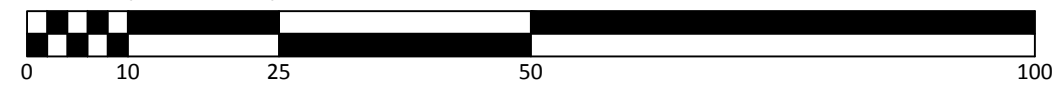
JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED34.all

44+26
VR34

SCALE (METRES) 1 : 750



GENERAL NOTES:
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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

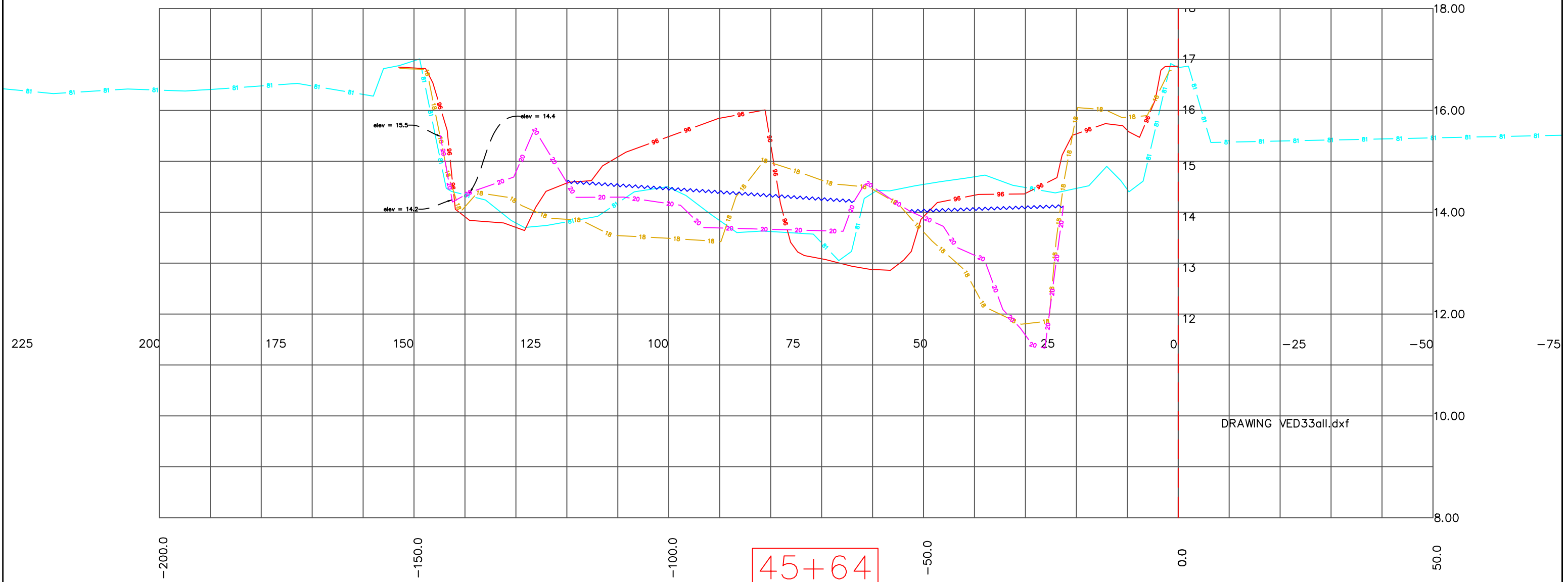
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

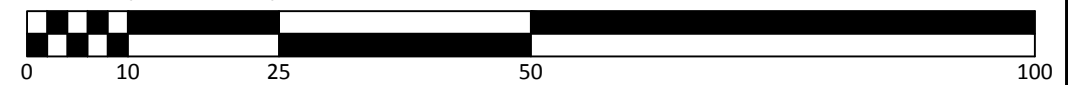
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



45+64
VR33

SCALE (METRES) 1 : 750



GENERAL NOTES:
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LEGEND:
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 - 5. 2020 Survey Ground Line.

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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

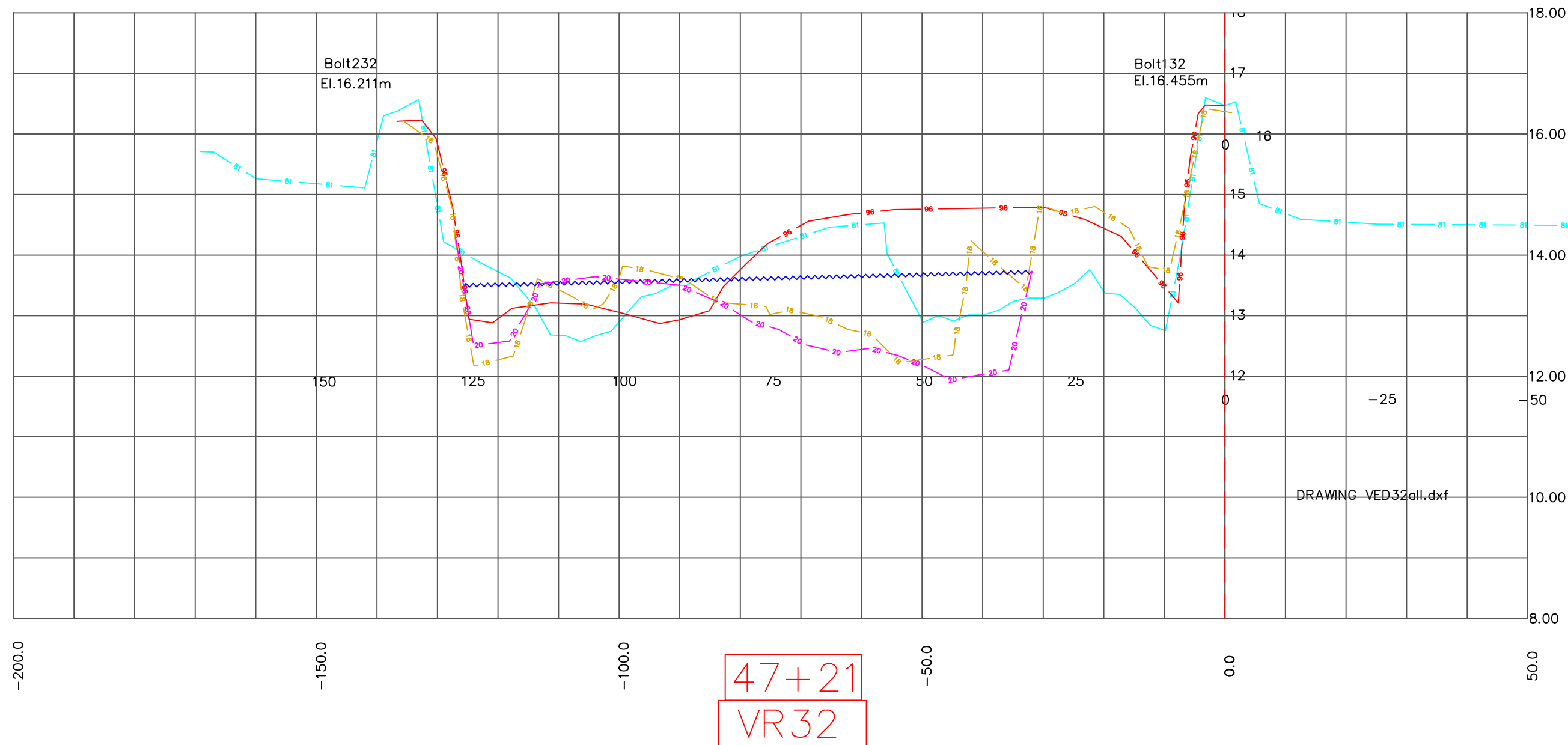
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

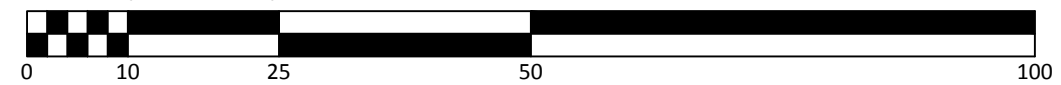
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING_VED32all.dxf

SCALE (METRES) 1 : 750



GENERAL NOTES:
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LEGEND:
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NO.	DATE	REVISION / ISSUE	BY	CH	AP
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CLIENT:
CITY OF CHILLIWACK

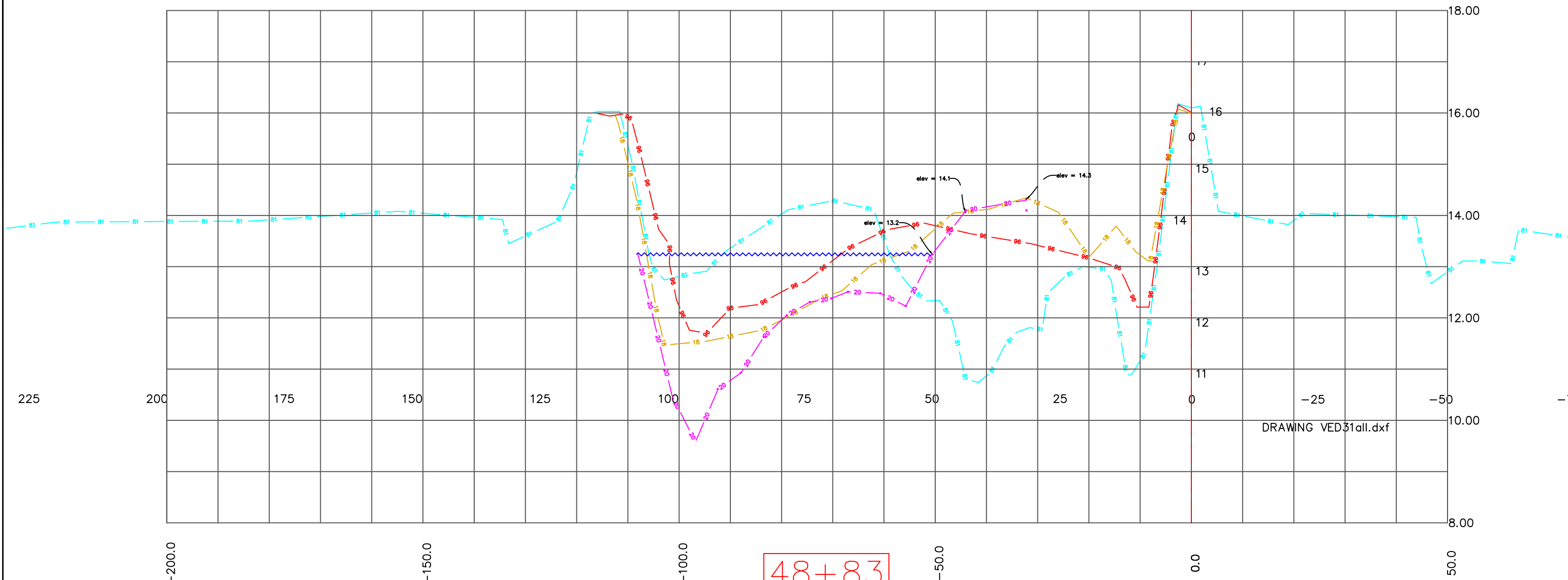
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

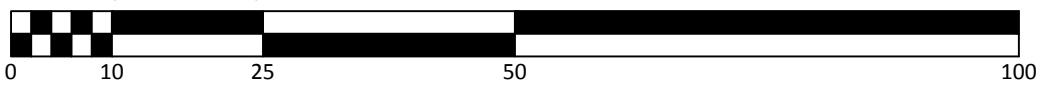
JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED31all.dxf

48+83
VR31

SCALE (METRES) 1 : 750



GENERAL NOTES:
 1. HORIZONTAL POSITIONING BY TRIMBLE GNSS RTK GPS RECEIVER, TO UTM GRID ZONE 10, NAD 83.
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LEGEND:
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 - 2. 1996 Survey Ground Line.
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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

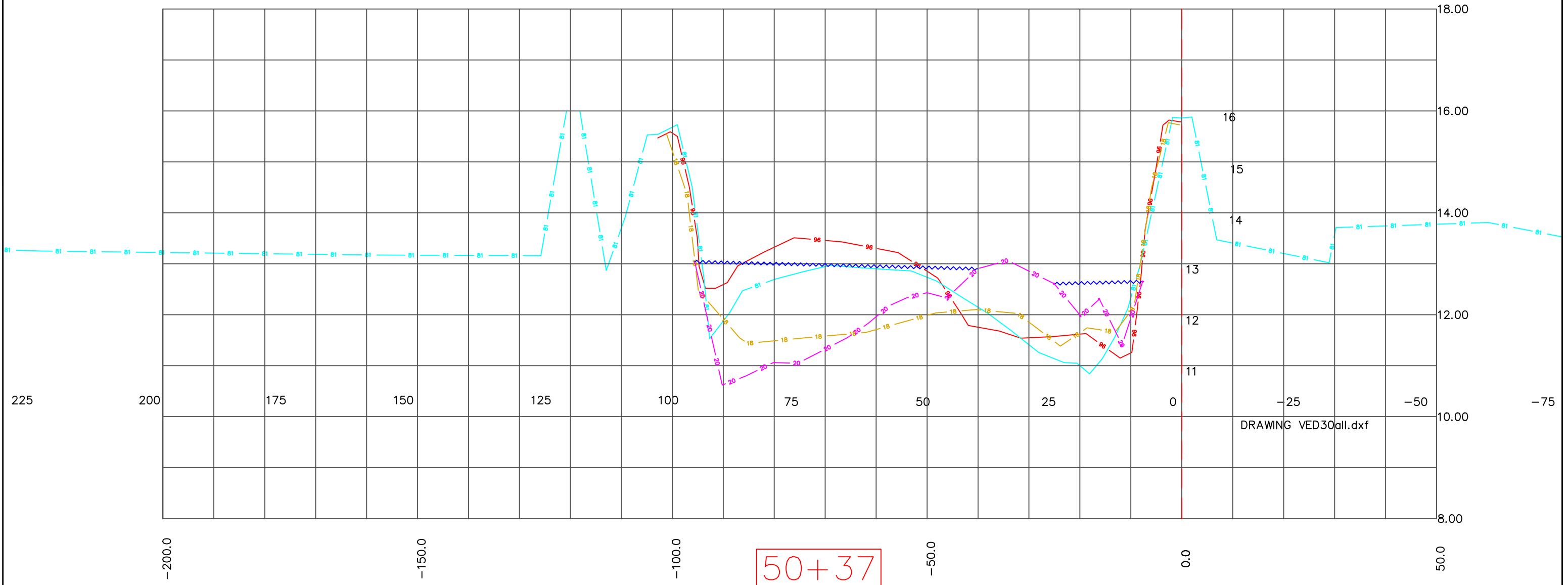
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

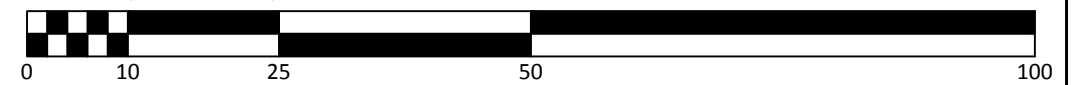
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



50+37
VR30

SCALE (METRES) 1 : 750



GENERAL NOTES:
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LEGEND:
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 - - - 4. 2018 Survey Ground Line
 - - - 5. 2020 Survey Ground Line.


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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:

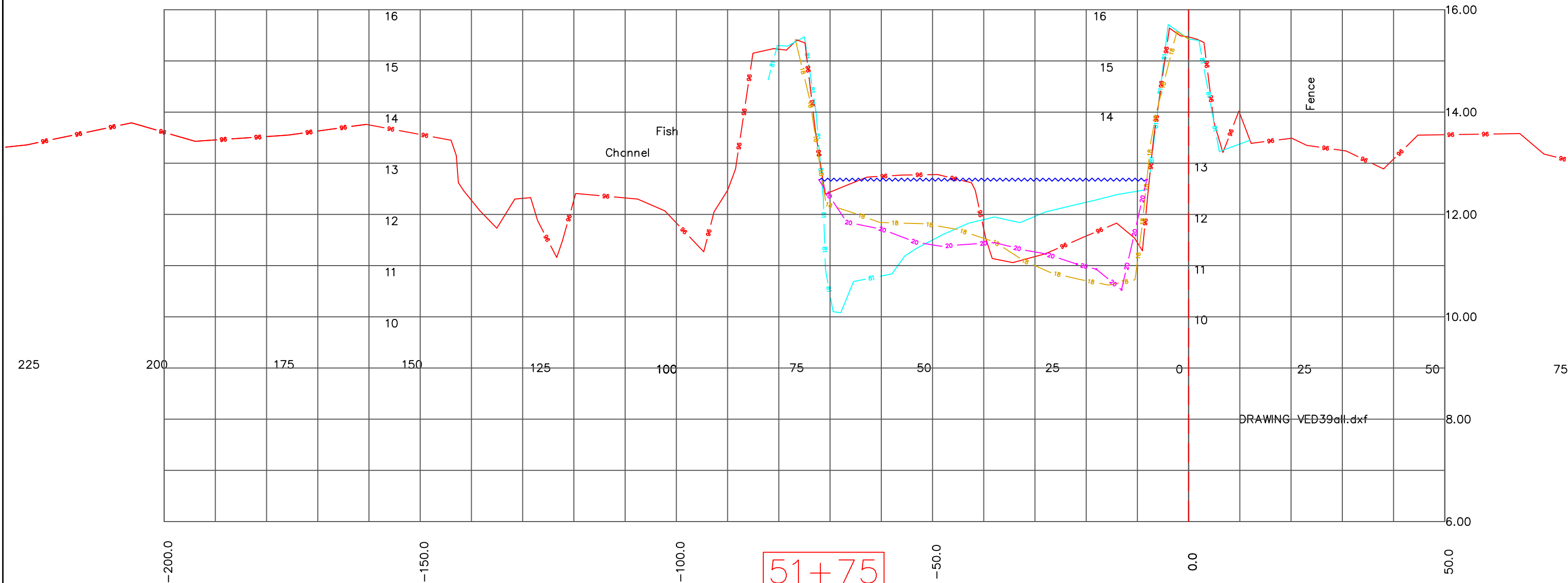
 PROJECT:
 2020 VEDDER RIVER SURVEY

DRAWING TITLE:
 2020 VEDDER RIVER SURVEY
 1981,1996,2018 & 2020
 RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0

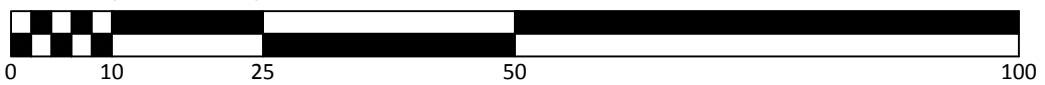
SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020



DRAWING VED39all.dxf

51+75
VR29

SCALE (METRES) 1 : 750



GENERAL NOTES:
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LEGEND:
 - 1. 1981 Survey Ground Line.
 - 2. 1996 Survey Ground Line.
 - 3. 2020 Top Water Surface Date of Section Survey.
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NO.	DATE	REVISION / ISSUE	BY	CH	AP
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CLIENT:
CITY OF CHILLIWACK

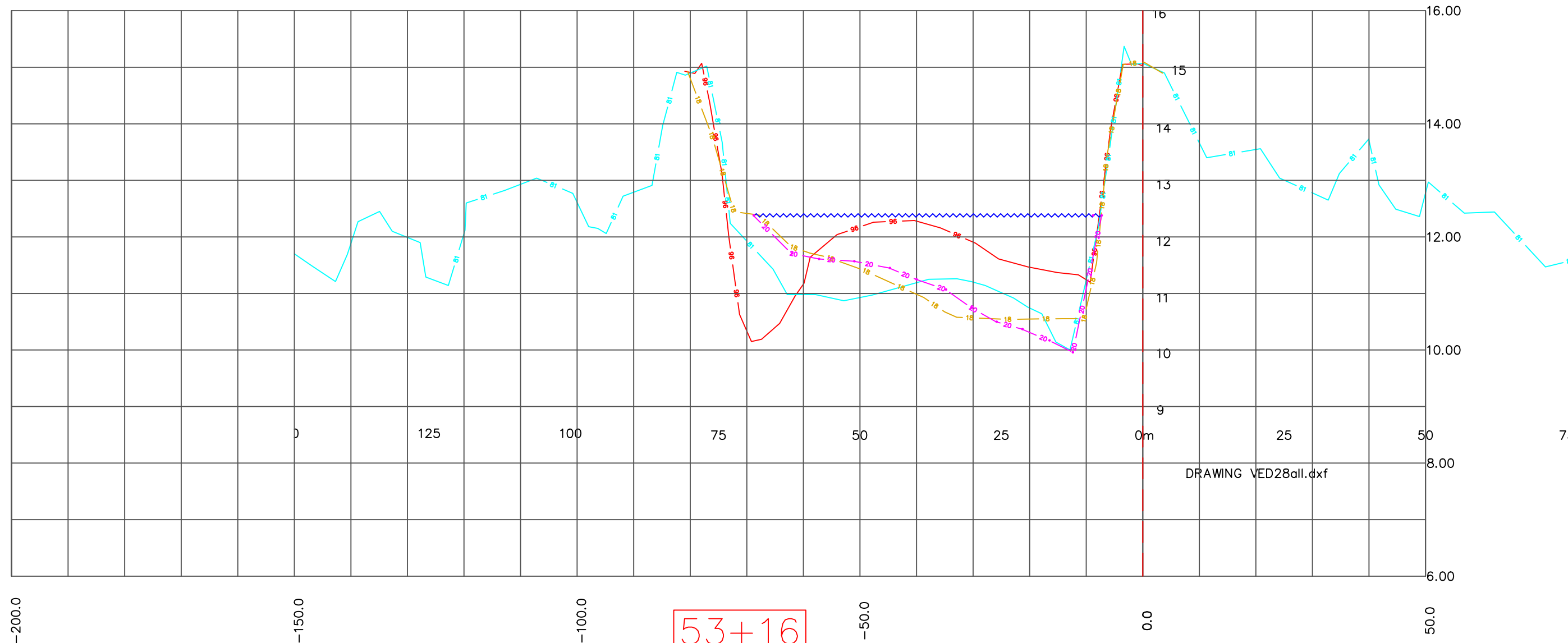
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

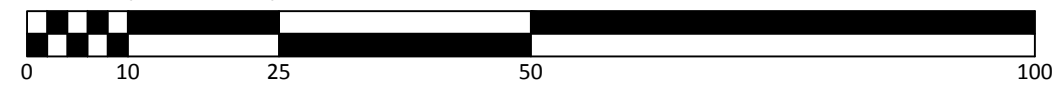
JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED28all.dxf

53+16
VR28

SCALE (METRES) 1 : 750



GENERAL NOTES:
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LEGEND:
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 - 3. 2020 Top Water Surface Date of Section Survey .
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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

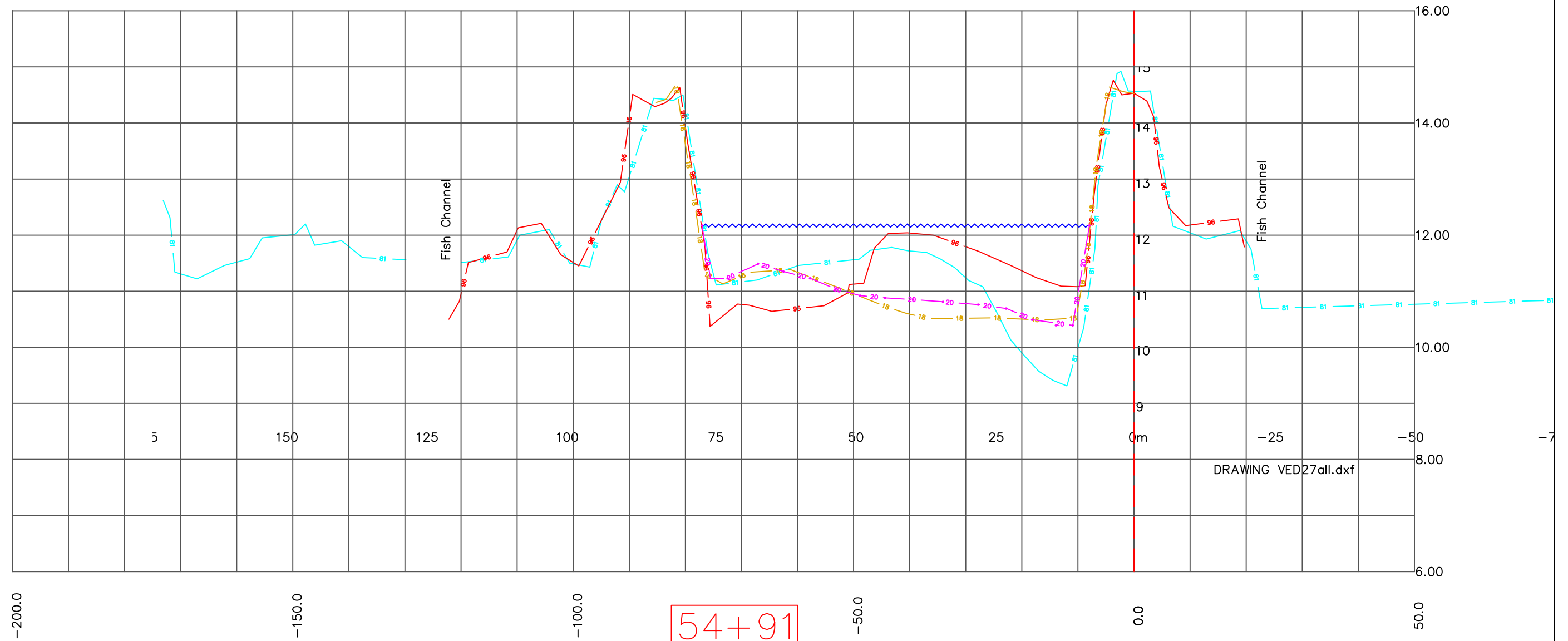
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

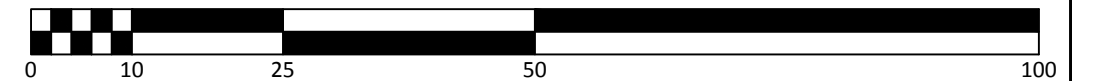
JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED27all.dxf

54+91
VR27

SCALE (METRES) 1 : 750

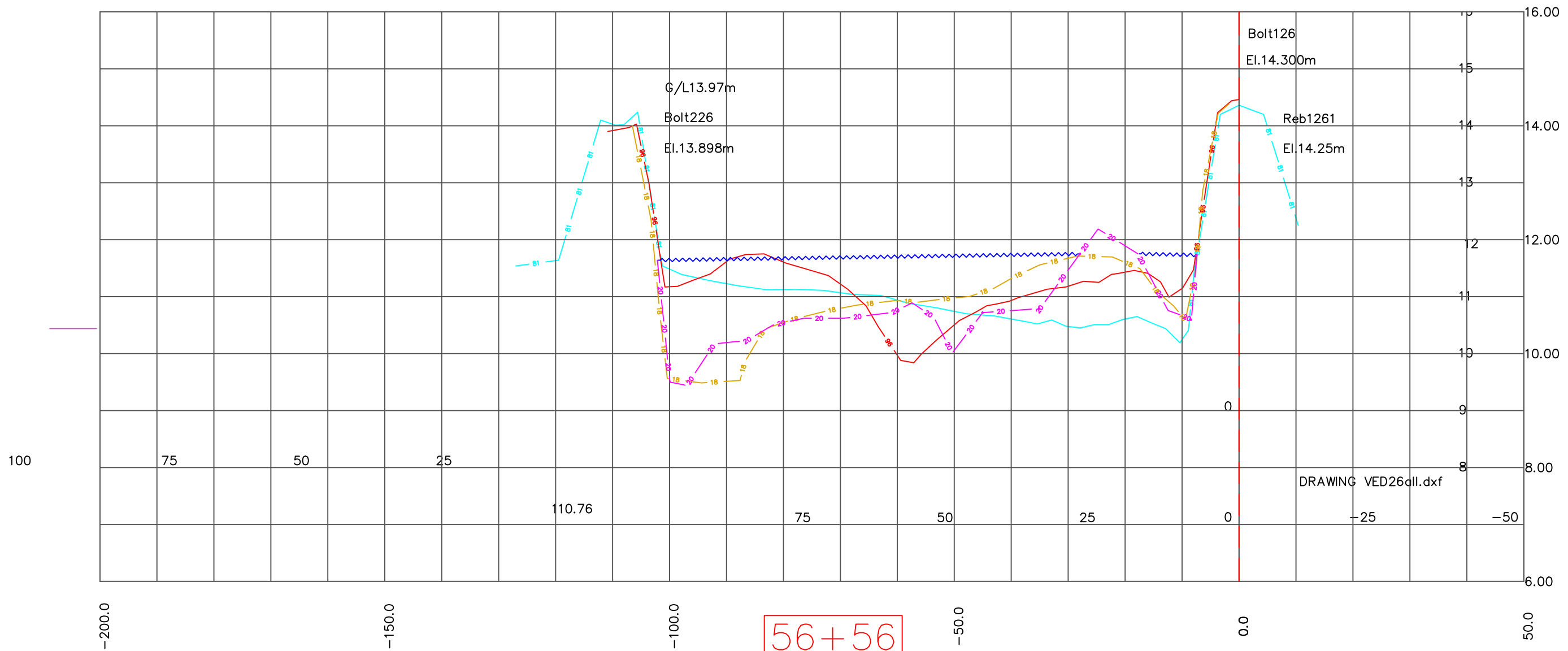


GENERAL NOTES:
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LEGEND:
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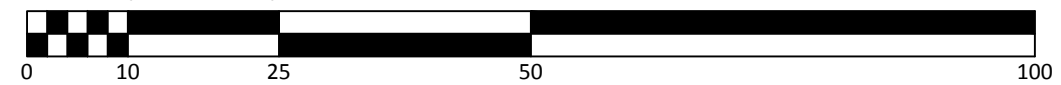
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			CLIENT: CITY OF CHILLIWACK			DRAWING TITLE: 2020 VEDDER RIVER SURVEY 1981,1996,2018 & 2020 RIVER SECTIONS		
			PROJECT: 2020 VEDDER RIVER SURVEY			SCALE: 1:750 / 1:75 Sections		
			SURVEYED BY: HAH			DATE: Jan - Feb 2020		
			C3D AUTOCAD BY: PK/HAH			DATE: Mar 2020		
			JOB NUMBER: 649-20			Pg 1 of 53		
			DRAWING NUMBER: 649 030 / 2020			REV 0		
NO.	DATE	REVISION / ISSUE	BY	CH	AP			
1	XX / XX / XX	XXX	HAH	HAH	HAH			



DRAWING VED26d11.dxf

SCALE (METRES) 1 : 750



GENERAL NOTES:
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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

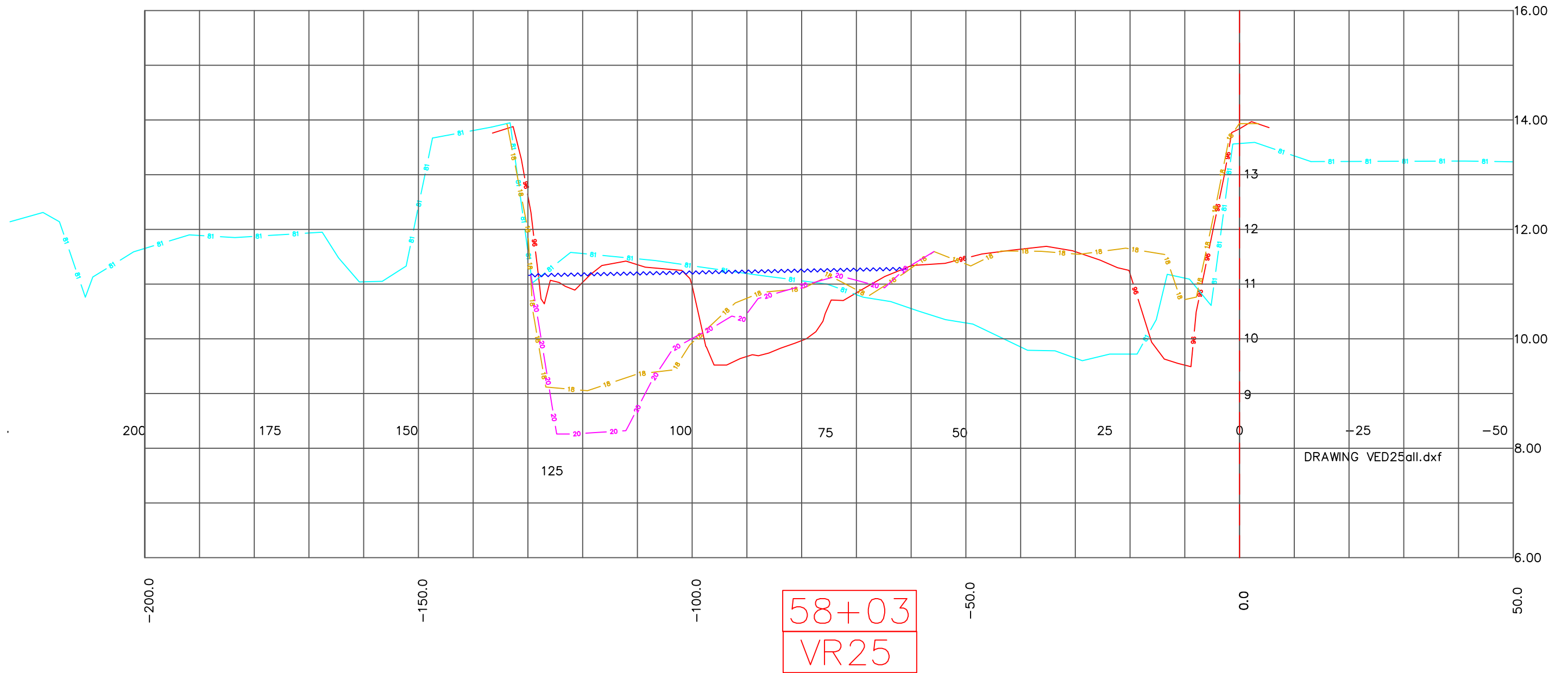
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

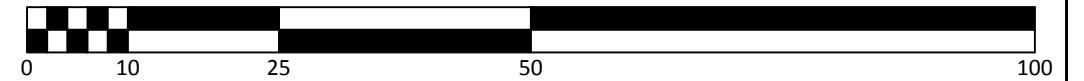
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED25all.dxf

SCALE (METRES) 1 : 750



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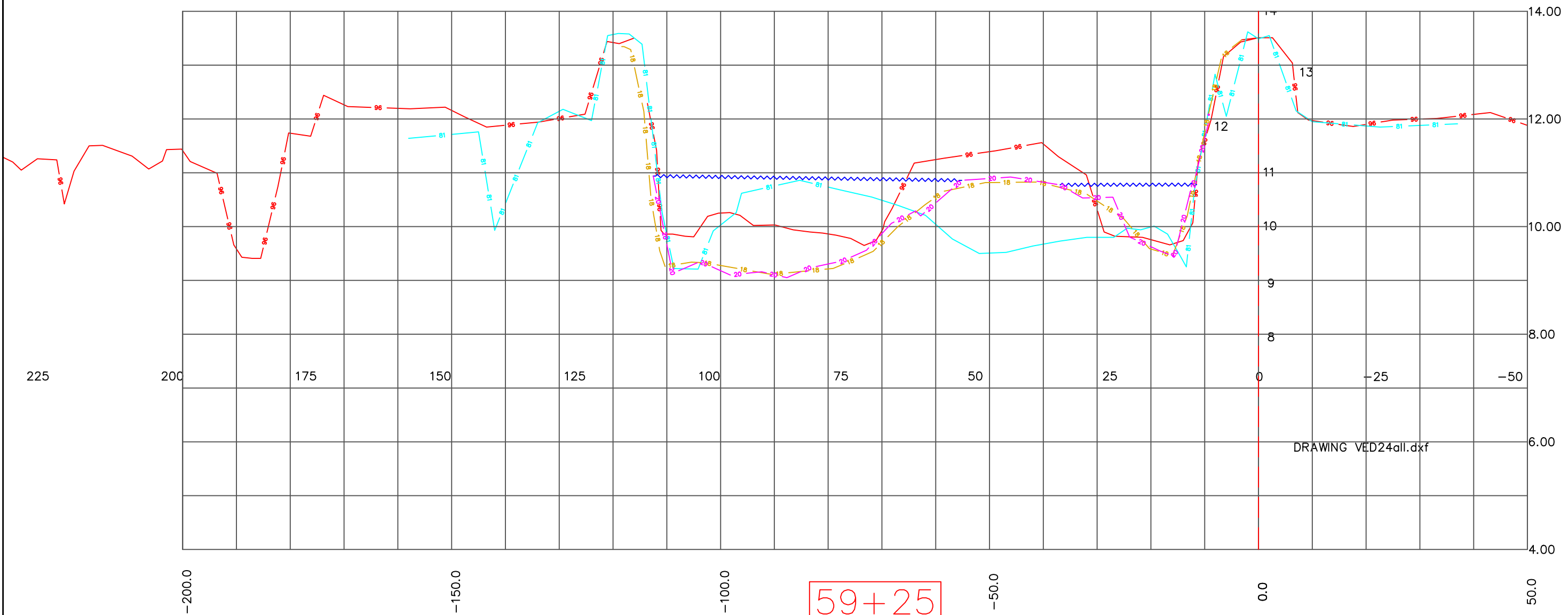
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- 1. 1981 Survey Ground Line.
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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT: CITY OF CHILLIWACK	SURVEYED BY: HAH	DATE: Jan - Feb 2020
PROJECT: 2020 VEDDER RIVER SURVEY	C3D AUTOCAD BY: PK/HAH	DATE: Mar 2020

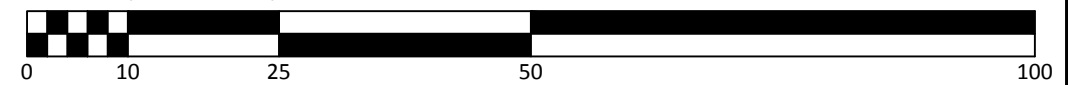
DRAWING TITLE: 2020 VEDDER RIVER SURVEY 1981,1996,2018 & 2020 RIVER SECTIONS	SCALE: 1:750 / 1:75 Sections
JOB NUMBER: 649-20	Pg 1 of 53
DRAWING NUMBER: 649 030 / 2020	REV 0



DRAWING VED24all.dxf

59+25
VR24

SCALE (METRES) 1 : 750



GENERAL NOTES:
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 2. THIS PLAN SHOWS / USES GRID DISTANCES
 3. ELEVATIONS ARE GEODETIC CGVD28
 4. ALIGNMENT STATIONING STARTS AT VEDDER CROSSING BRIDGE, SEE CONTROL DRAWING FOR LAYOUT
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LEGEND:
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 - 3. 2020 Top Water Surface Date of Section Survey.
 - 4. 2018 Survey Ground Line
 - 5. 2020 Survey Ground Line.

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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

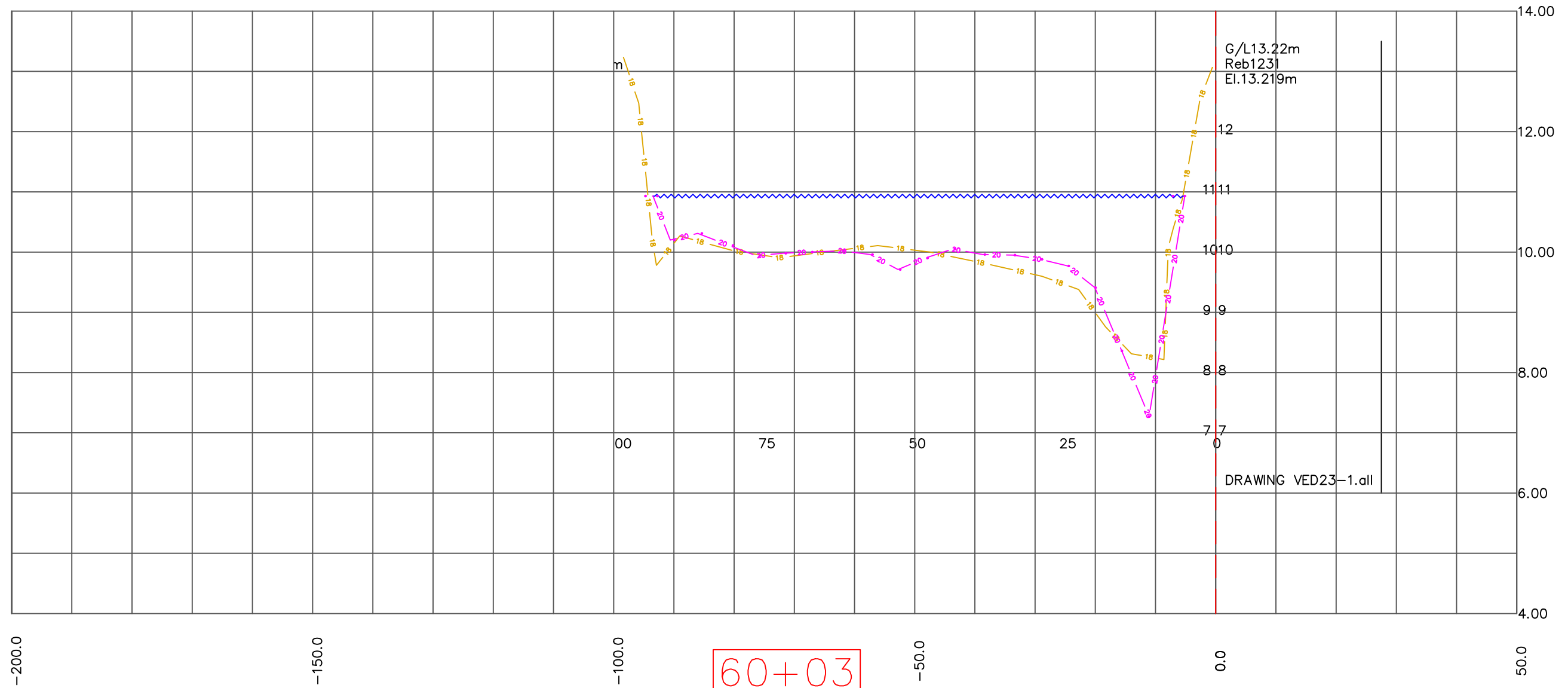
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

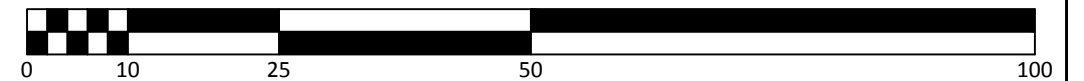
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



60+03
VR23-1

SCALE (METRES) 1 : 750

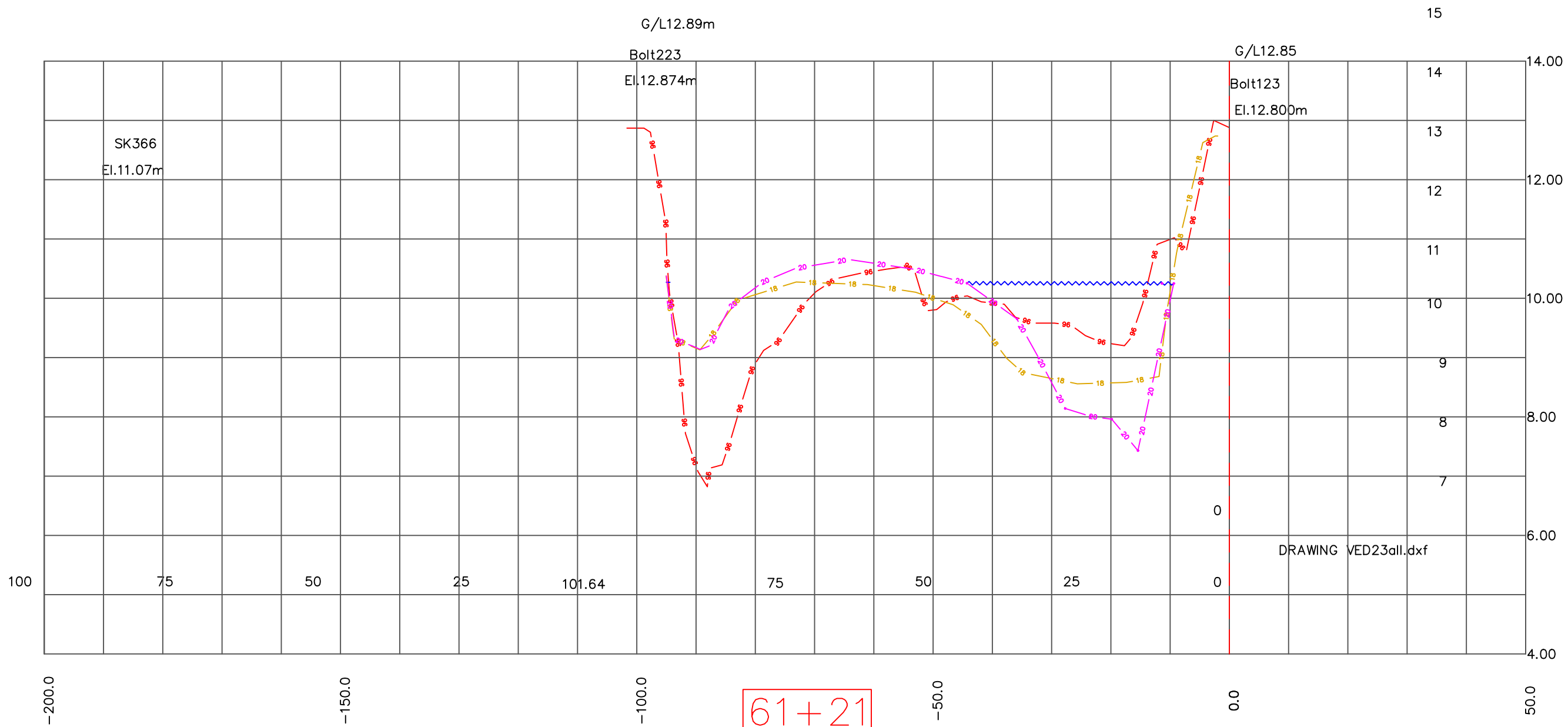


GENERAL NOTES:
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LEGEND:
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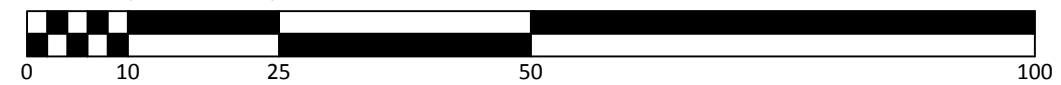


			CLIENT: CITY OF CHILLIWACK			DRAWING TITLE: 2020 VEDDER RIVER SURVEY 1981,1996,2018 & 2020 RIVER SECTIONS		
			PROJECT: 2020 VEDDER RIVER SURVEY			SCALE: 1:750 / 1:75 Sections		
			SURVEYED BY: HAH			DATE: Jan - Feb 2020		
			C3D AUTOCAD BY: PK/HAH			DATE: Mar 2020		
			JOB NUMBER: 649-20			Pg 1 of 53		
			DRAWING NUMBER: 649 030 / 2020			REV 0		
NO.	DATE	REVISION / ISSUE	BY	CH	AP			
1	XX / XX / XX	XXX	HAH	HAH	HAH			



DRAWING VED23all.dxf

SCALE (METRES) 1 : 750



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NO.	DATE	REVISION / ISSUE	BY	CH	AP
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CLIENT:
CITY OF CHILLIWACK

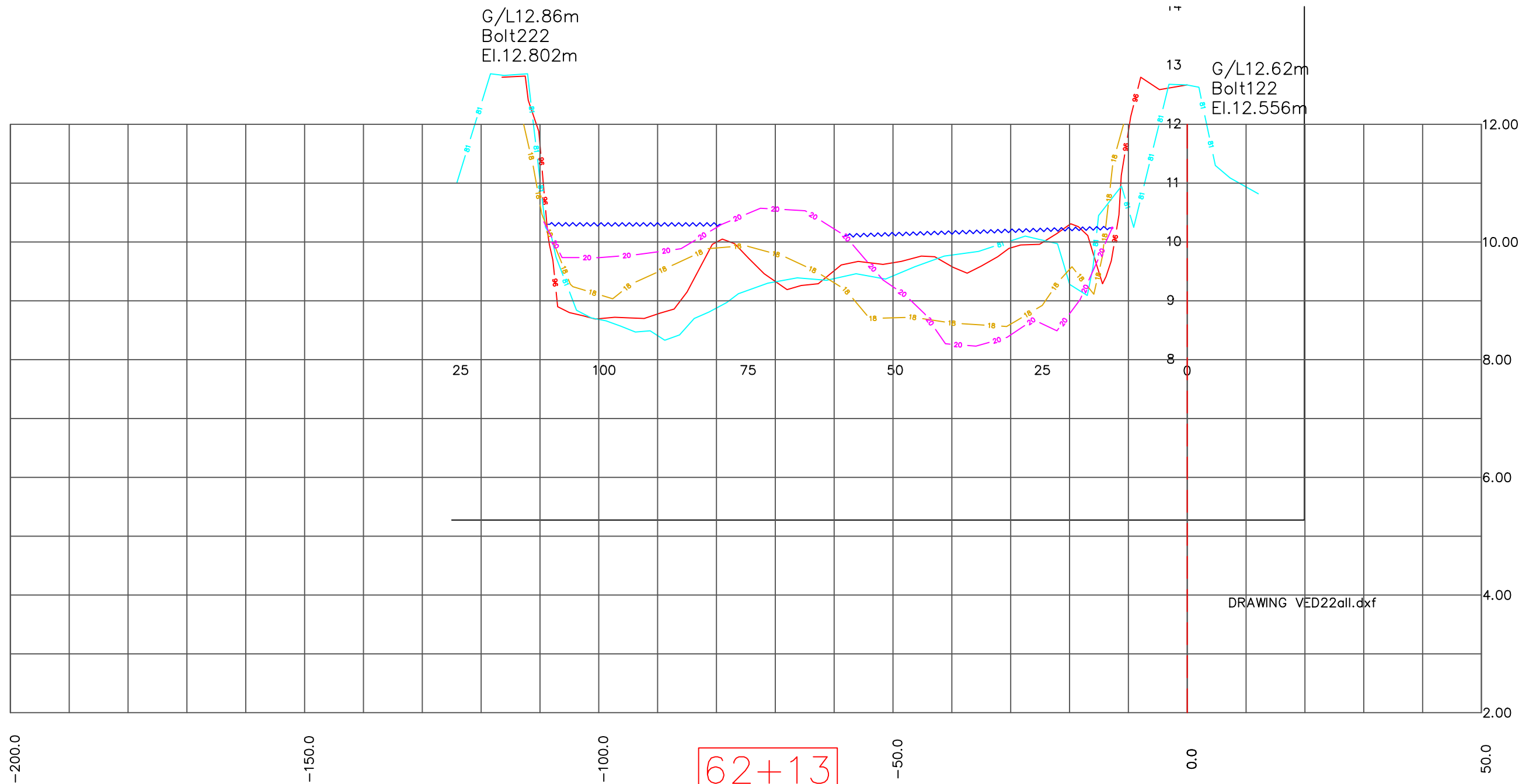
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

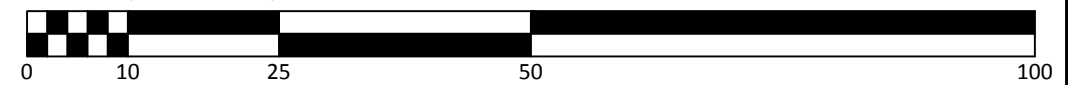
JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



62+13
VR22

DRAWING VED22all.dxf

SCALE (METRES) 1 : 750



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NO.	DATE	REVISION / ISSUE	BY	CH	AP
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CLIENT:
CITY OF CHILLIWACK

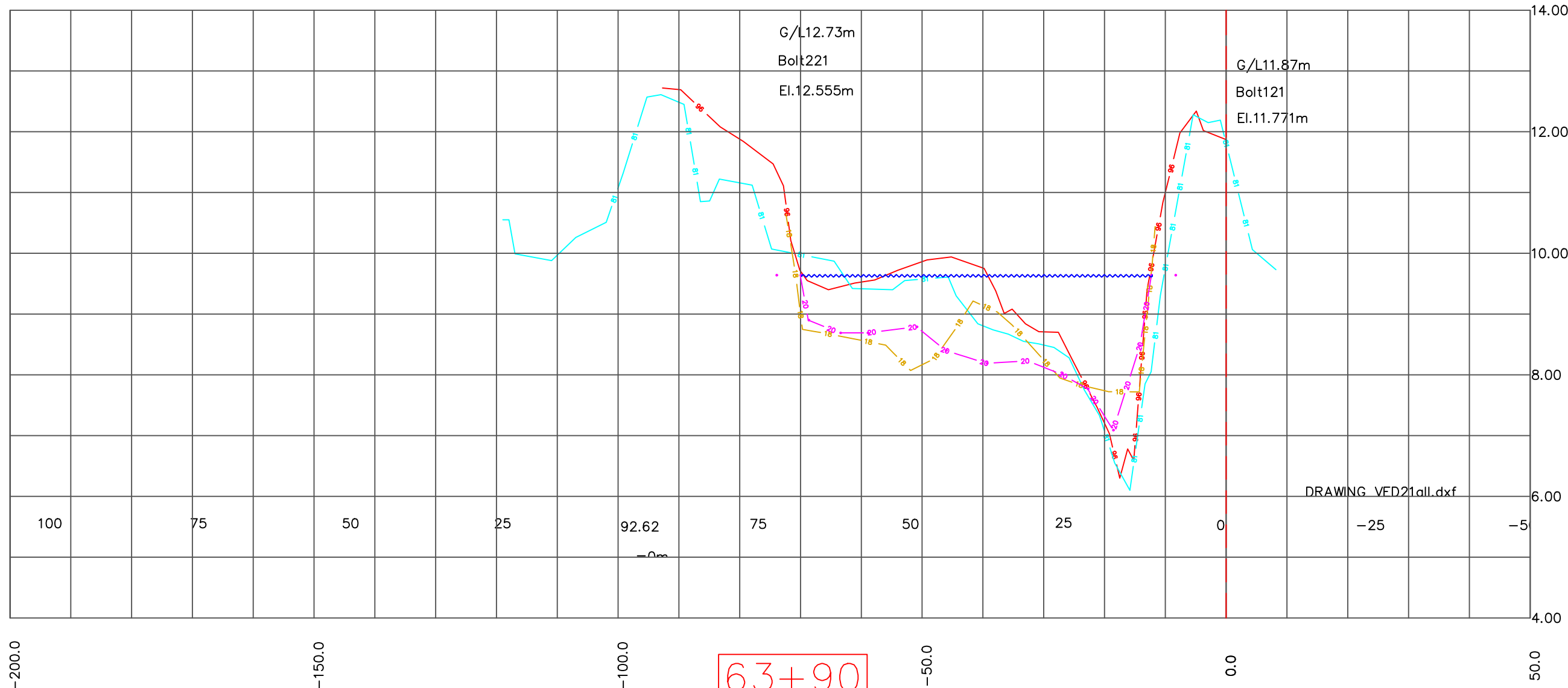
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

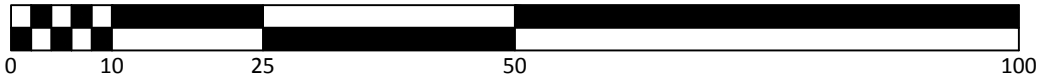
JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



63+90
VR21

DRAWING_VFD21.all.dxf

SCALE (METRES) 1 : 750



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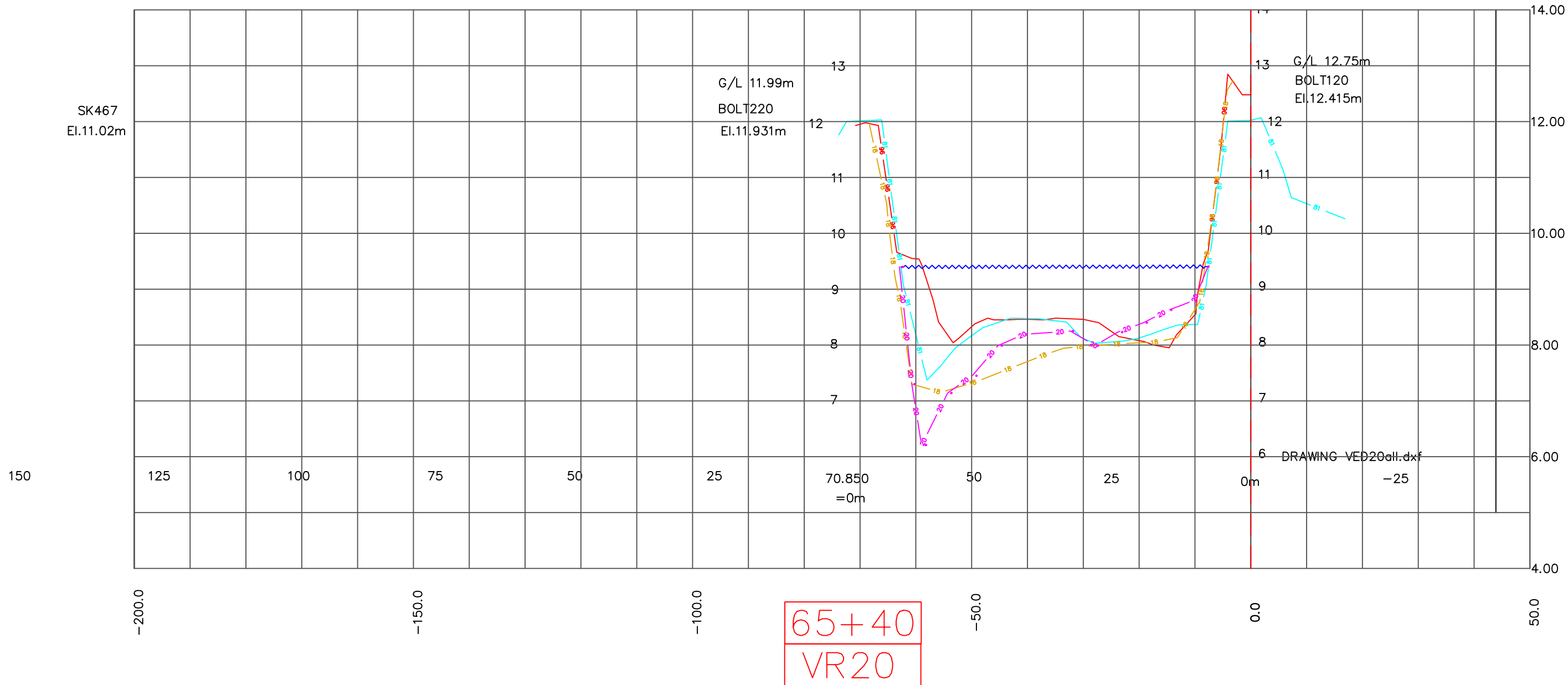
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

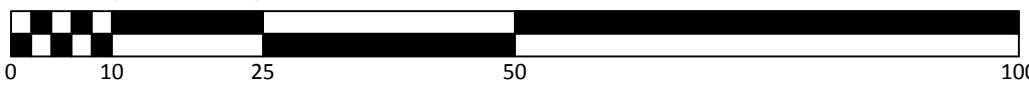
DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



SCALE (METRES) 1 : 750



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CLIENT:
CITY OF CHILLIWACK

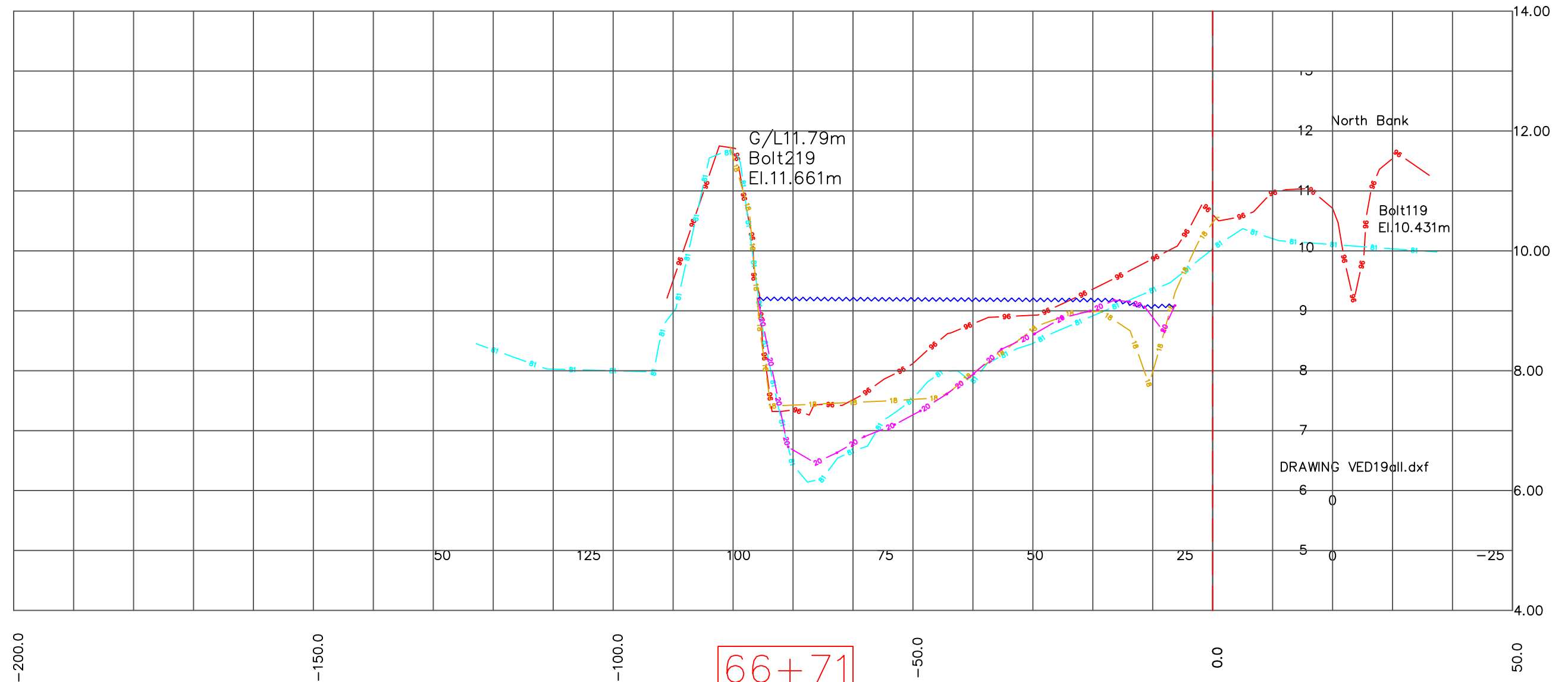
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

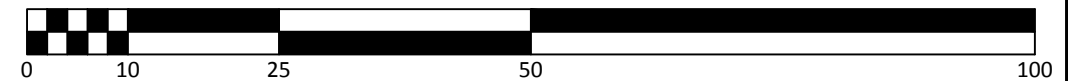
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED19a11.dxf

SCALE (METRES) 1 : 750



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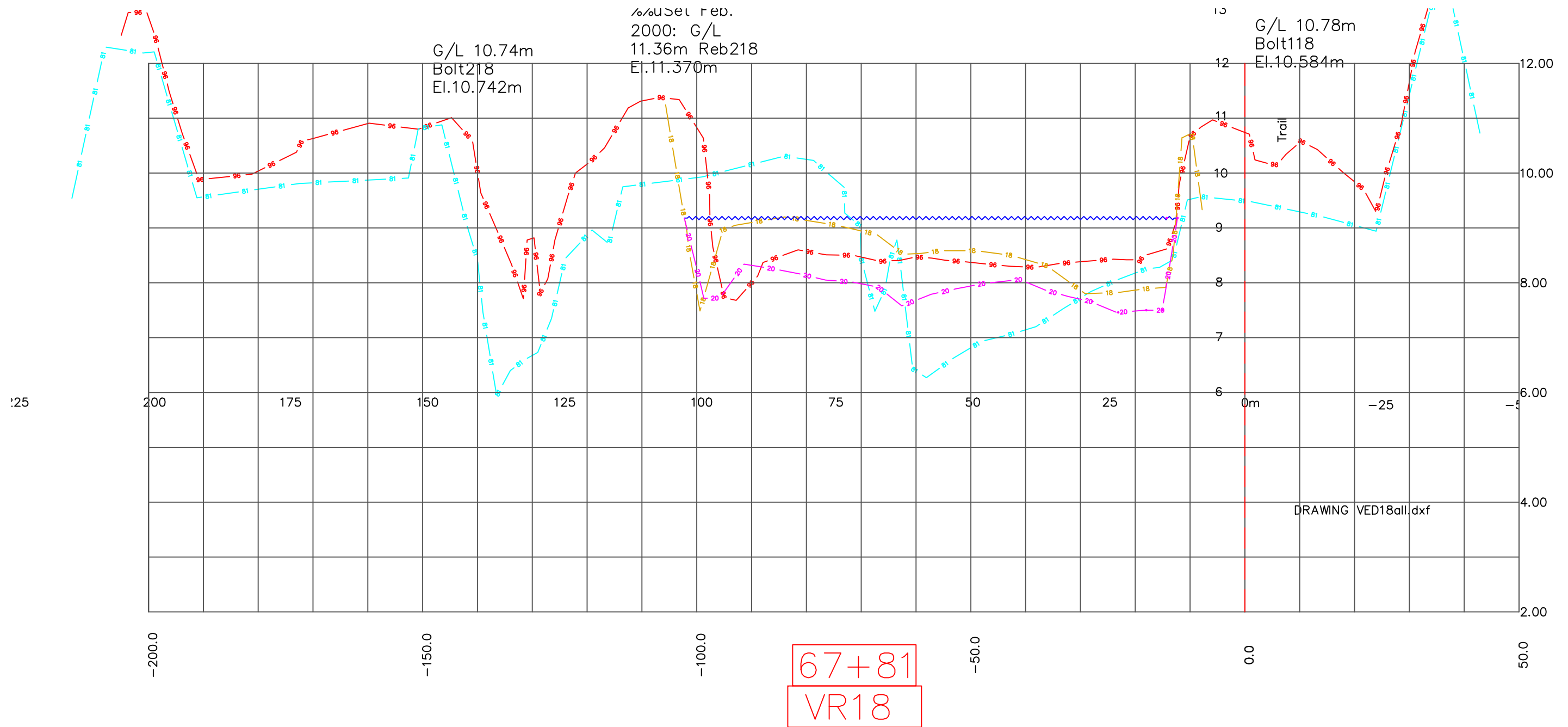
LEGEND:
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1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT: CITY OF CHILLIWACK	SURVEYED BY: HAH	DATE: Jan - Feb 2020
PROJECT: 2020 VEDDER RIVER SURVEY	C3D AUTOCAD BY: PK/HAH	DATE: Mar 2020

DRAWING TITLE: 2020 VEDDER RIVER SURVEY 1981,1996,2018 & 2020 RIVER SECTIONS	SCALE: 1:750 / 1:75 Sections
JOB NUMBER: 649-20	Pg 1 of 53
DRAWING NUMBER: 649 030 / 2020	REV 0



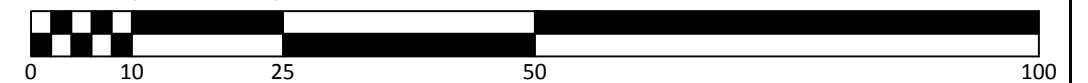
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El.11.370m

G/L 10.74m
Bolt218
El.10.742m

G/L 10.78m
Bolt118
El.10.584m

DRAWING VED18all.dxf

SCALE (METRES) 1 : 750



- GENERAL NOTES:**
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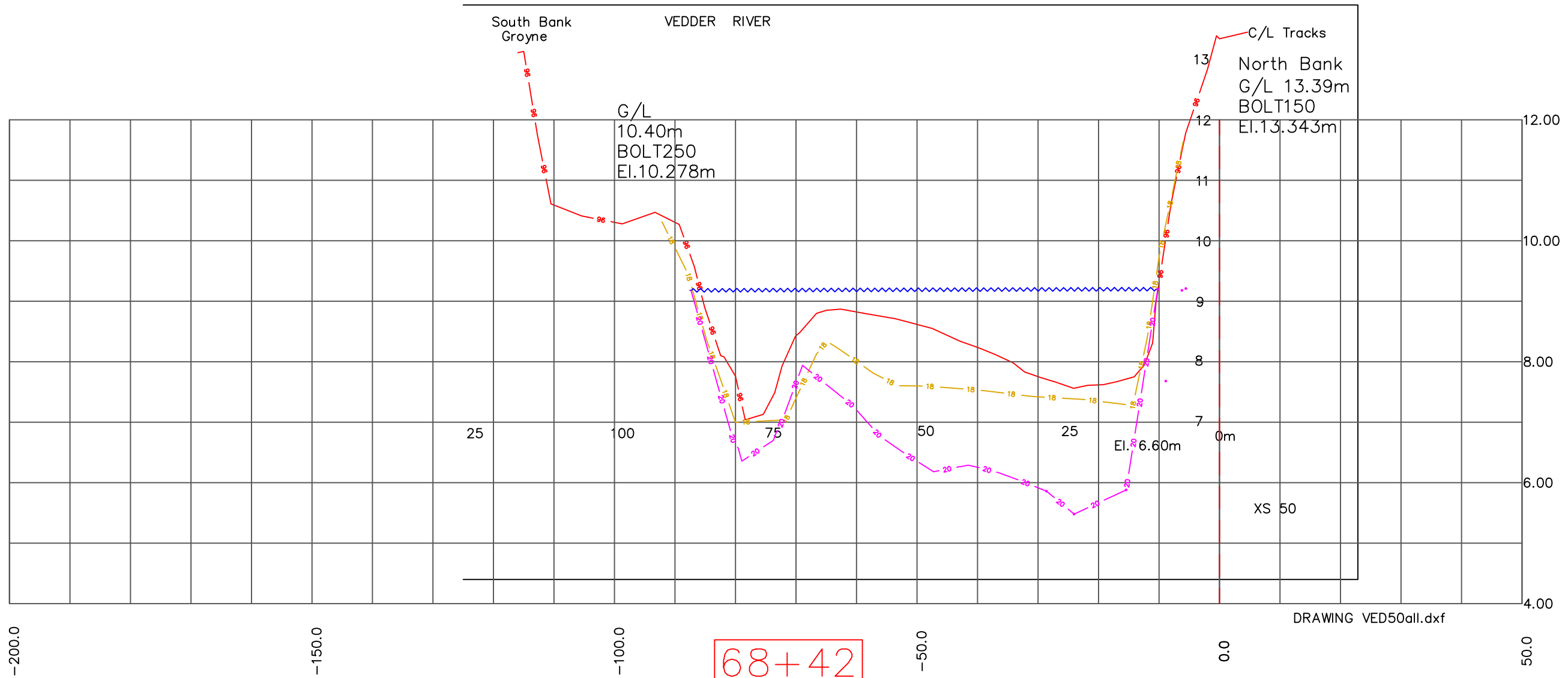
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C3D AUTOCAD BY: PK/HAH																		DATE: Mar 2020			DRAWING NUMBER: 649 030 / 2020			REV			0											

CLIENT:

PROJECT:
2020 VEDDER RIVER SURVEY

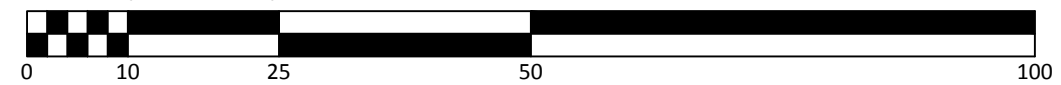
DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections



68+42
VR50

SCALE (METRES) 1 : 750



GENERAL NOTES:
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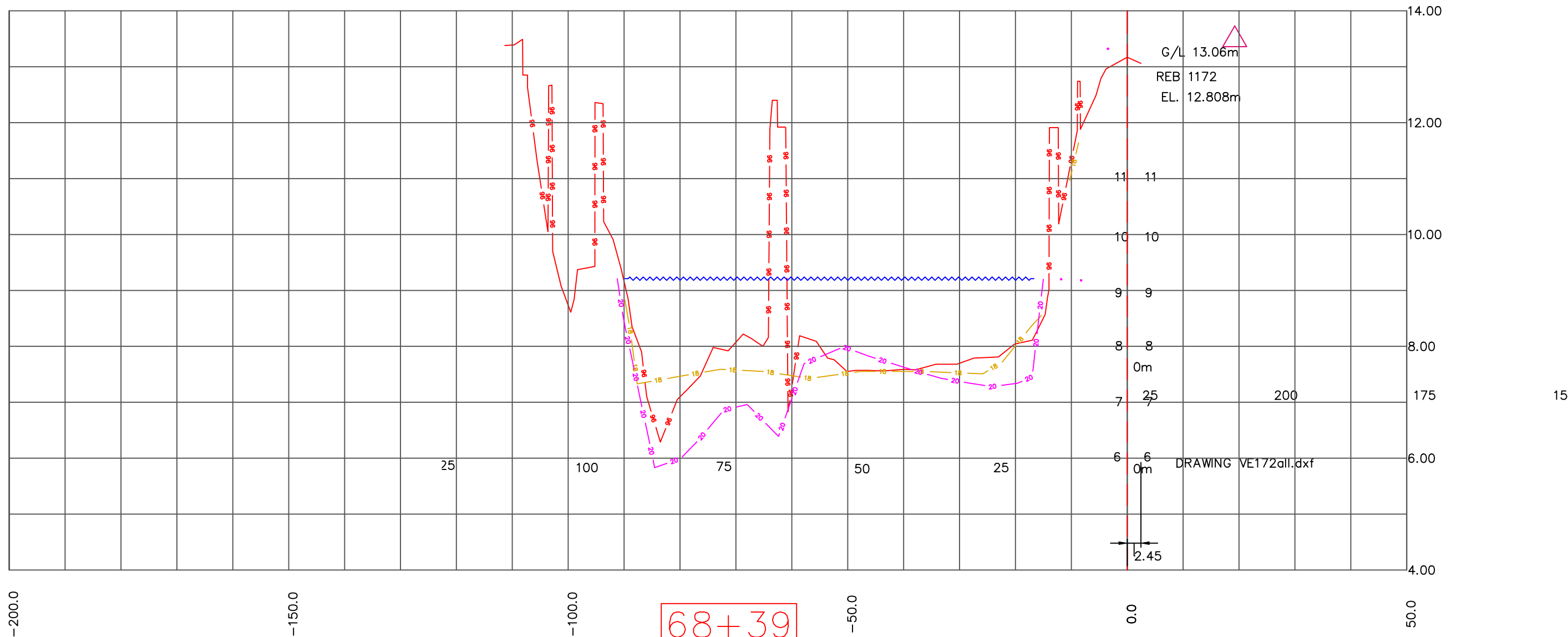
CLIENT:

 PROJECT:
 2020 VEDDER RIVER SURVEY

DRAWING TITLE:
 2020 VEDDER RIVER SURVEY
 1981,1996,2018 & 2020
 RIVER SECTIONS

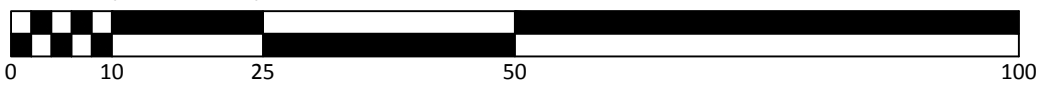
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



68+39
VR17-2

SCALE (METRES) 1 : 750



GENERAL NOTES:
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CLIENT:
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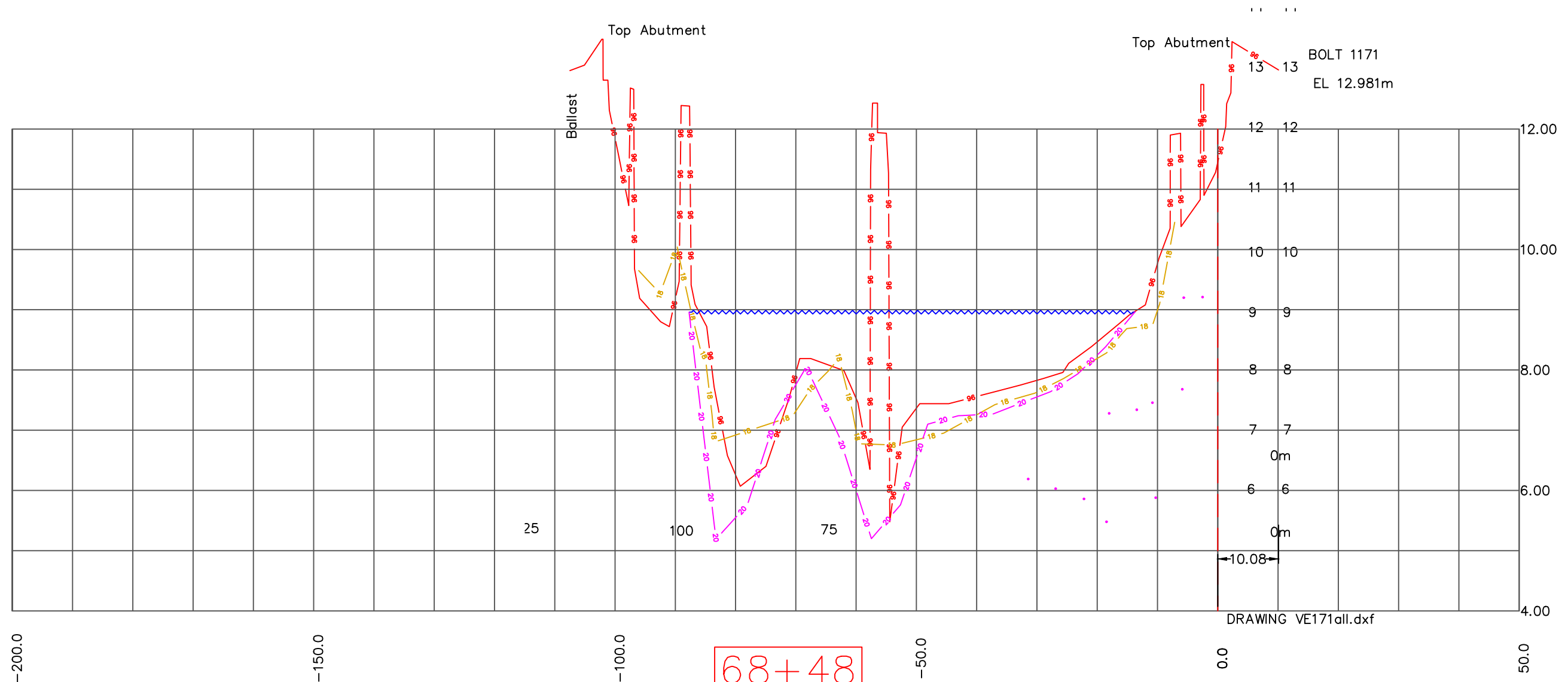
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
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DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
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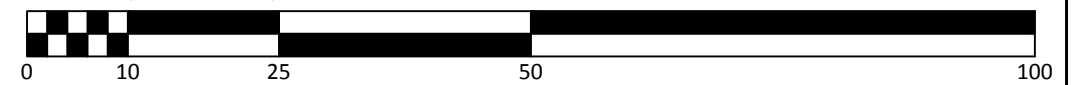
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VE171all.dxf

SCALE (METRES) 1 : 750



GENERAL NOTES:
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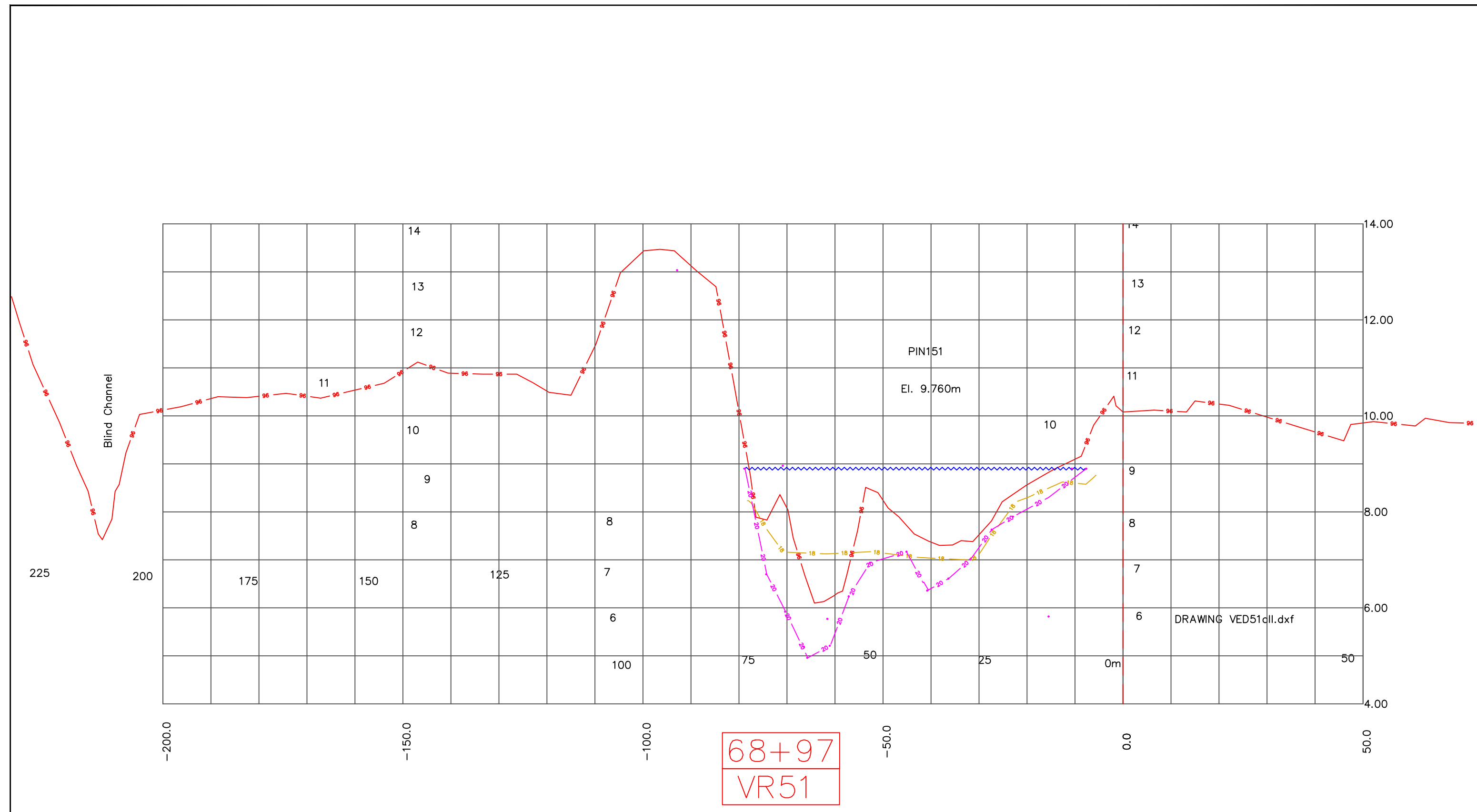
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

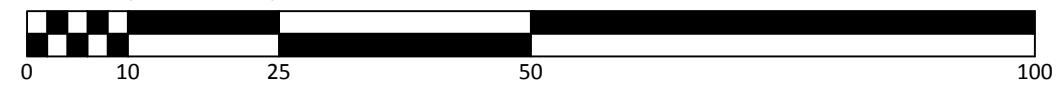
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED51dll.dxf

SCALE (METRES) 1 : 750



GENERAL NOTES:
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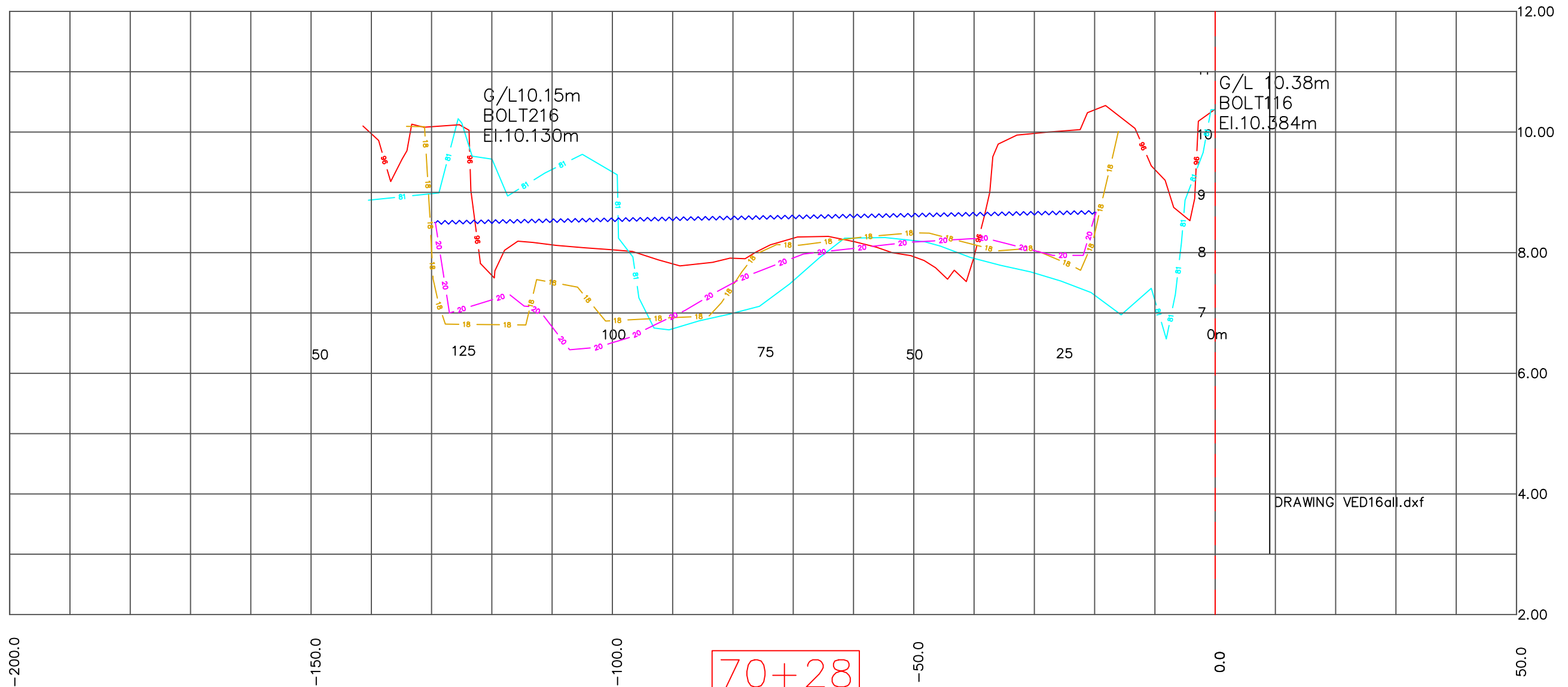
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

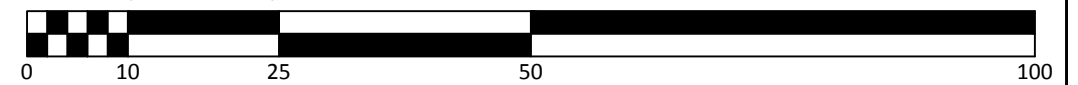
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED16all.dxf

SCALE (METRES) 1 : 750

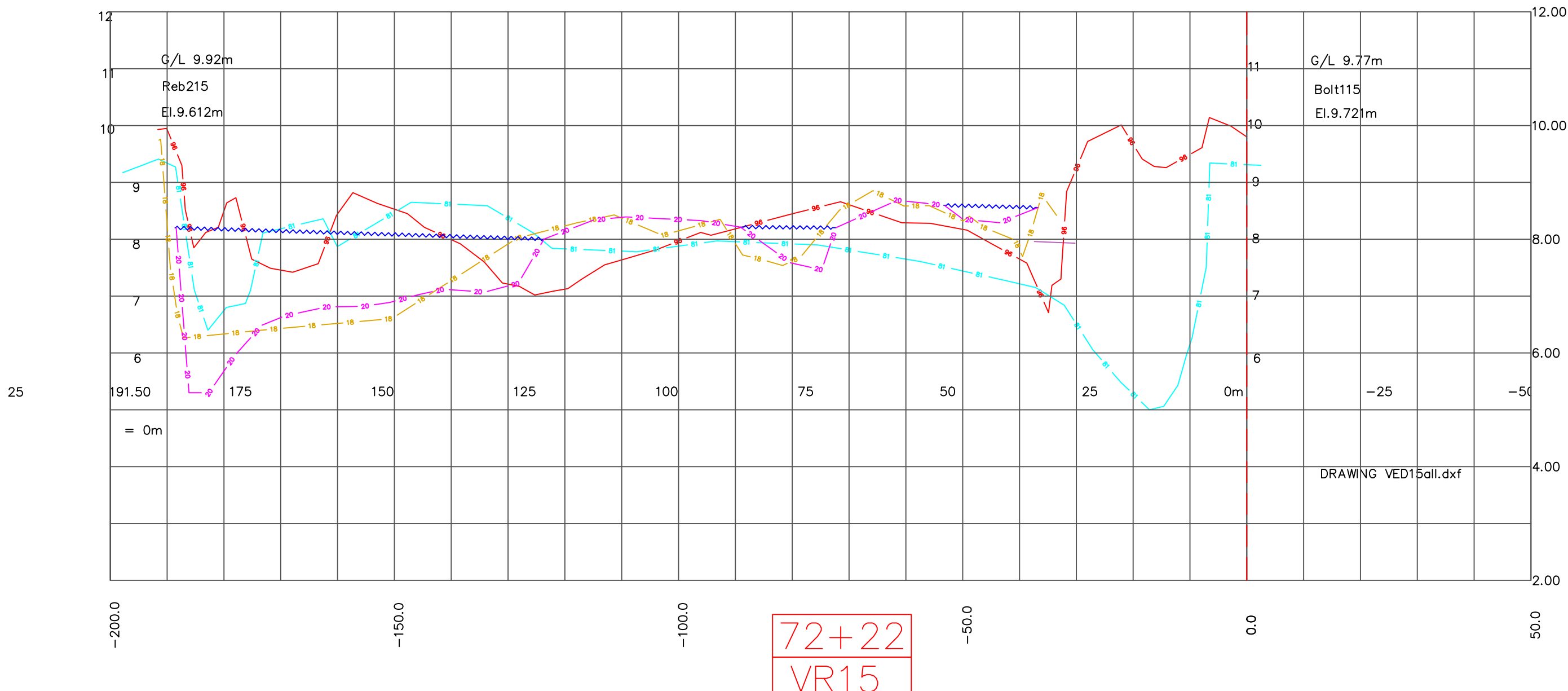


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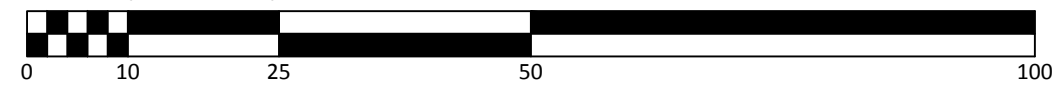
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CLIENT: CITY OF CHILLIWACK			DRAWING TITLE: 2020 VEDDER RIVER SURVEY 1981,1996,2018 & 2020 RIVER SECTIONS		
PROJECT: 2020 VEDDER RIVER SURVEY			SCALE: 1:750 / 1:75 Sections		
NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH
SURVEYED BY: HAH			DATE: Jan - Feb 2020		
C3D AUTOCAD BY: PK/HAH			DATE: Mar 2020		
JOB NUMBER: 649-20			Pg 1 of 53		
DRAWING NUMBER: 649 030 / 2020			REV 0		



DRAWING VED15all.dxf

SCALE (METRES) 1 : 750



GENERAL NOTES:
 1. HORIZONTAL POSITIONING BY TRIMBLE GNSS RTK GPS RECEIVER, TO UTM GRID ZONE 10, NAD 83.
 2. THIS PLAN SHOWS / USES GRID DISTANCES
 3. ELEVATIONS ARE GEODETIC CGVD28
 4. ALIGNMENT STATIONING STARTS AT VEDDER CROSSING BRIDGE, SEE CONTROL DRAWING FOR LAYOUT
 5. ALL INFORMATION OF THIS PLAN IS REPRESENTATIVE OF CONDITIONS AT TIME OF SURVEY.

LEGEND:
 - 1. 1981 Survey Ground Line.
 - 2. 1996 Survey Ground Line.
 - 3. 2020 Top Water Surface Date of Section Survey.
 - 4. 2018 Survey Ground Line
 - 5. 2020 Survey Ground Line.

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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

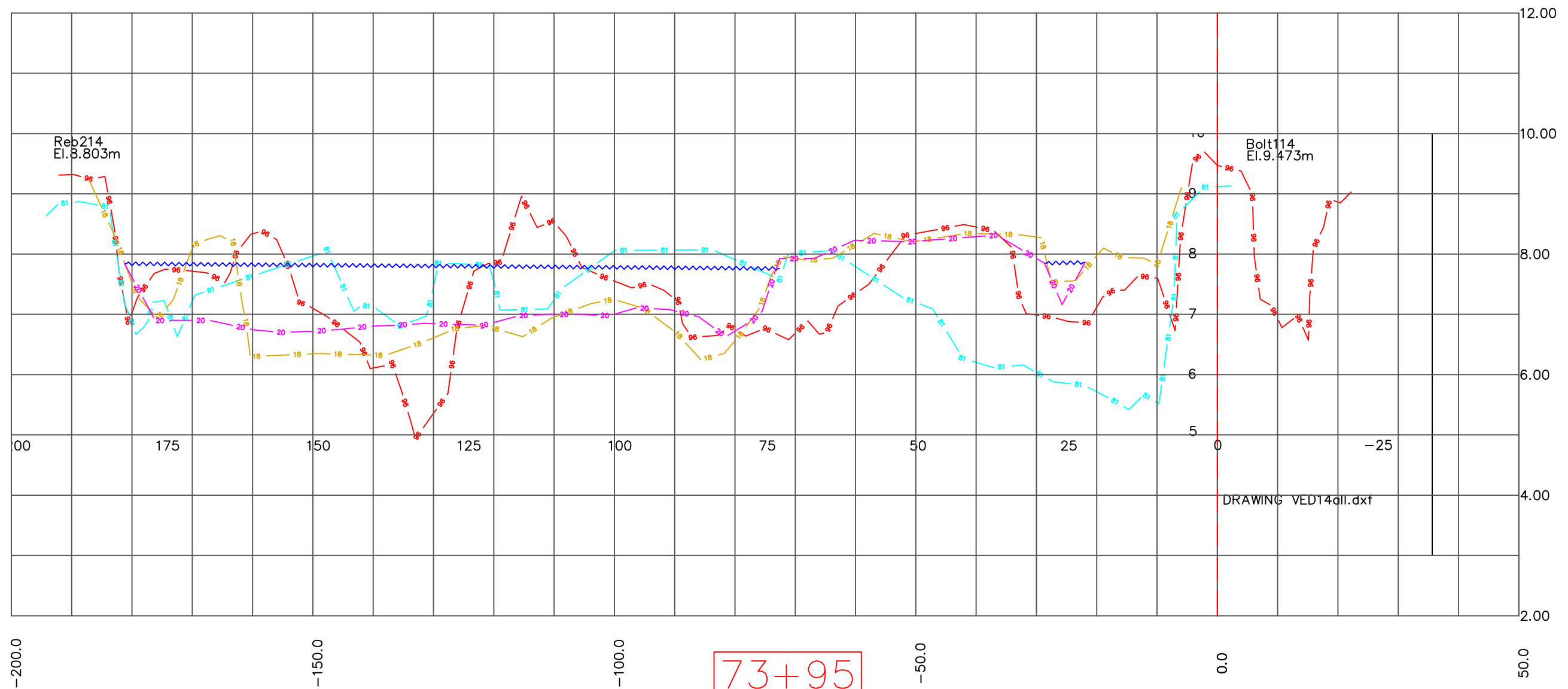
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

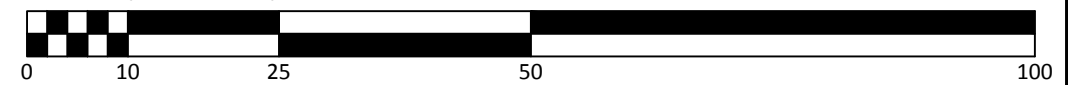
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



73+95
VR14

SCALE (METRES) 1 : 750



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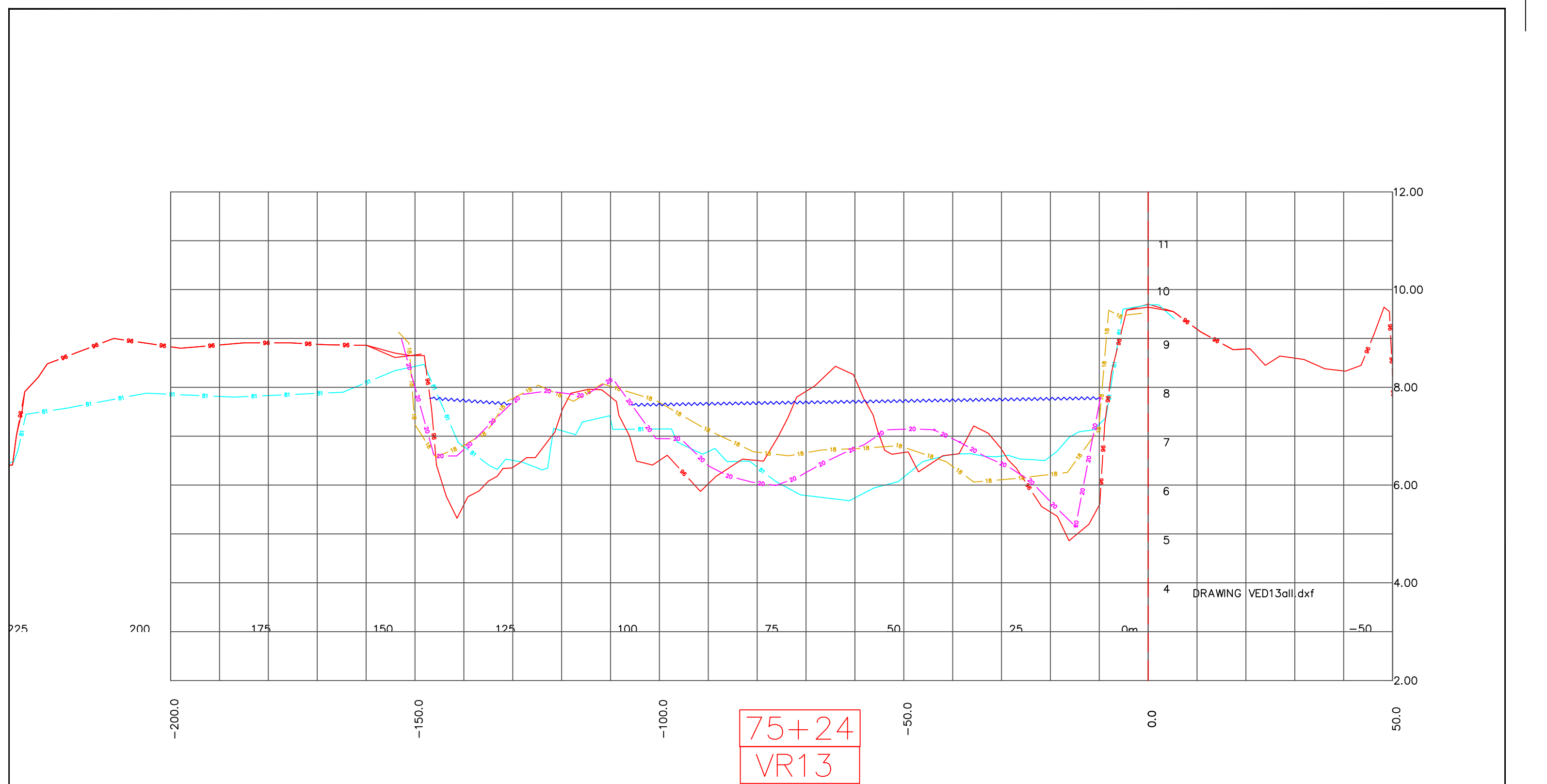
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

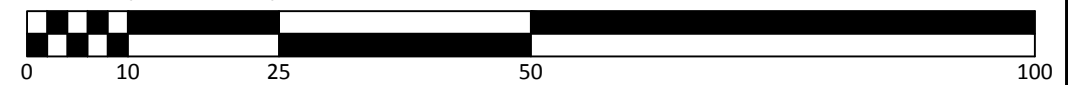
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED13a11.dxf

SCALE (METRES) 1 : 750



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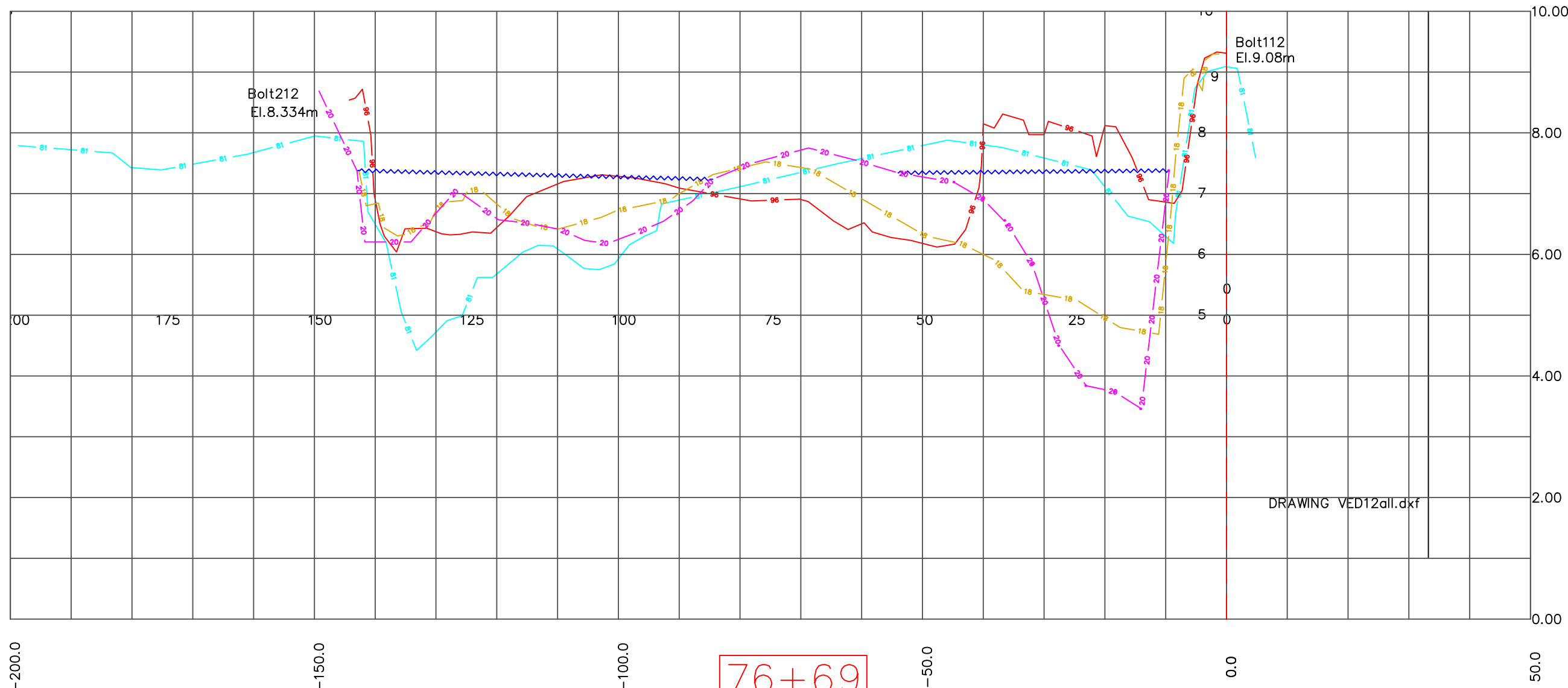
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
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DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

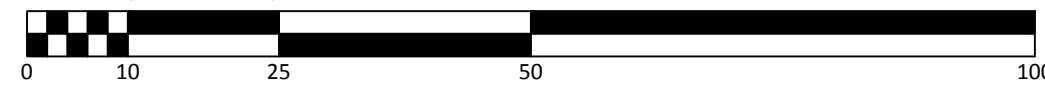
JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED12all.dxf

76+69
VR12

SCALE (METRES) 1 : 750

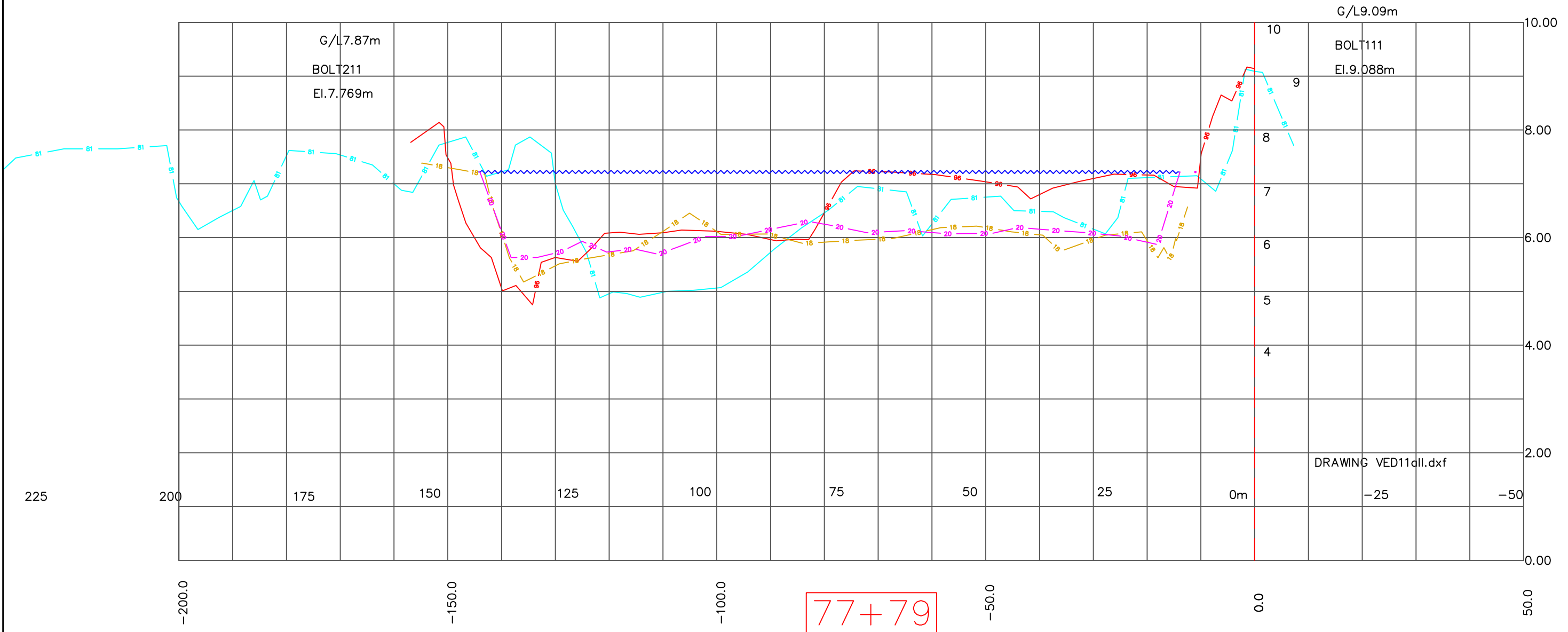


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C3D AUTOCAD BY: PK/HAH			DATE: Mar 2020		
JOB NUMBER: 649-20			Pg 1 of 53		
DRAWING NUMBER: 649 030 / 2020			REV 0		



G/L9.09m

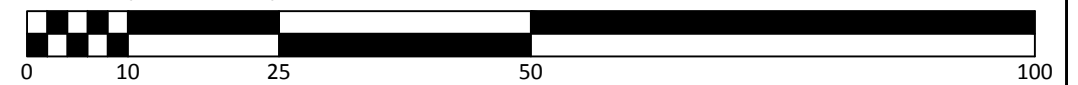
G/L7.87m
BOLT211
El.7.769m

BOLT111
El.9.088m

DRAWING VED11.dll.dxf

77+79
VR11

SCALE (METRES) 1 : 750



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CLIENT:
CITY OF CHILLIWACK

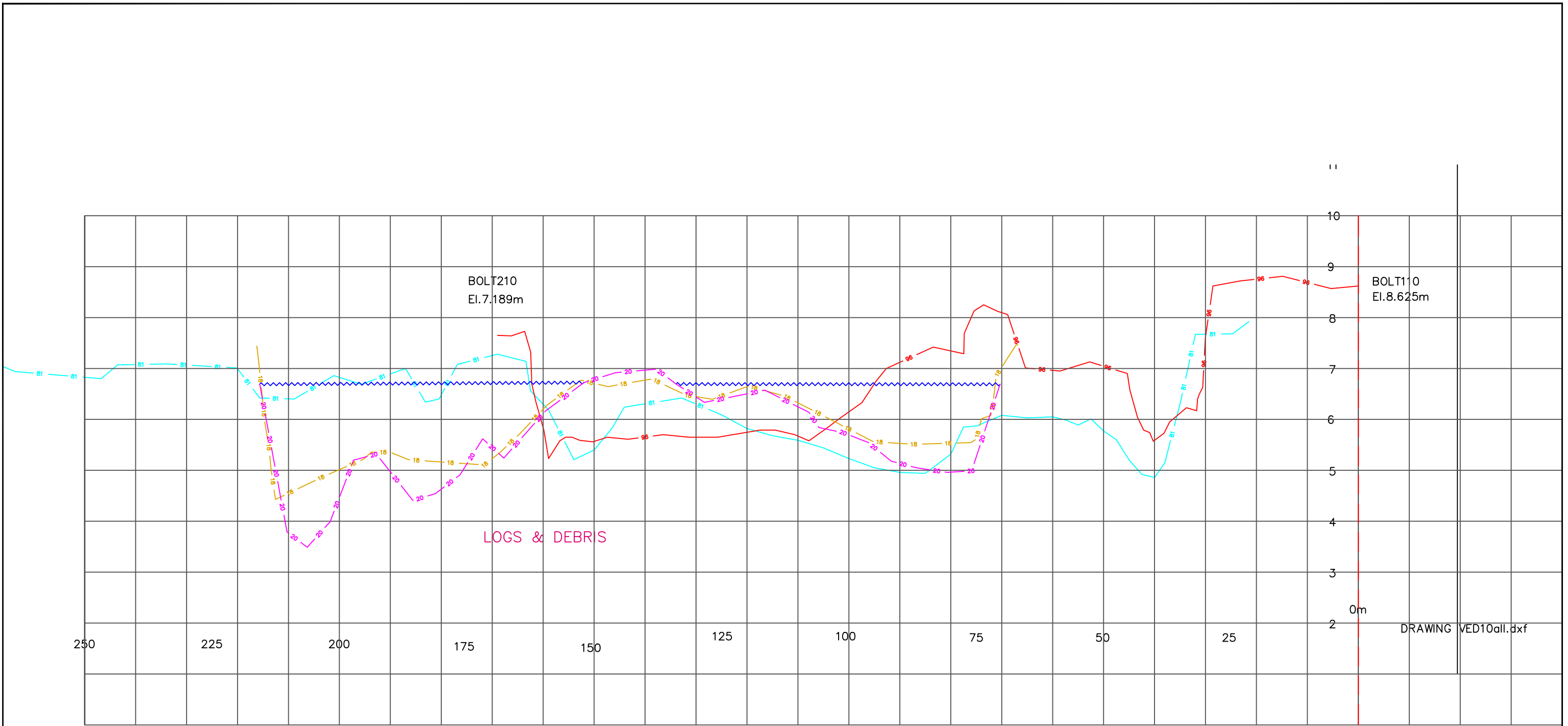
PROJECT:
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RIVER SECTIONS

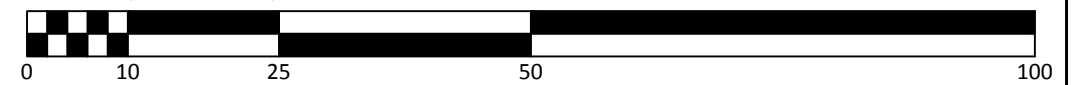
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



79+85
VR10

SCALE (METRES) 1 : 750



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NO.	DATE	REVISION / ISSUE	BY	CH	AP
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CLIENT:
CITY OF CHILLIWACK

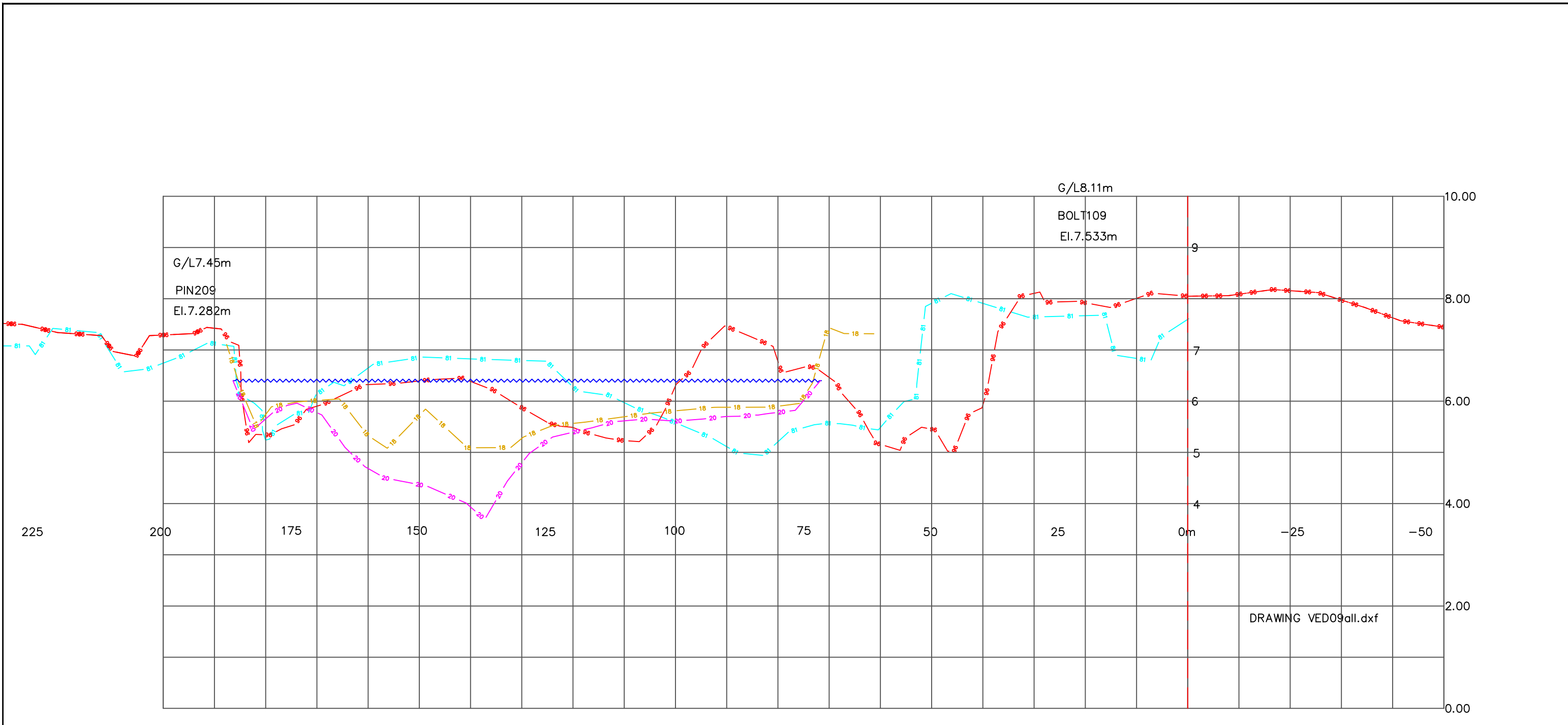
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
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DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

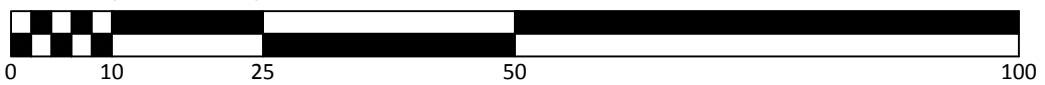
JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



80+98
VR09

DRAWING VED09all.dxf

SCALE (METRES) 1 : 750



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NO.	DATE	REVISION / ISSUE	BY	CH	AP
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CLIENT:
CITY OF CHILLIWACK

PROJECT:
2020 VEDDER RIVER SURVEY

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DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0

G/L7.66m
REB208
El.7.498m

South Bank

VEDDER RIVER

BOLT108
eroded

11

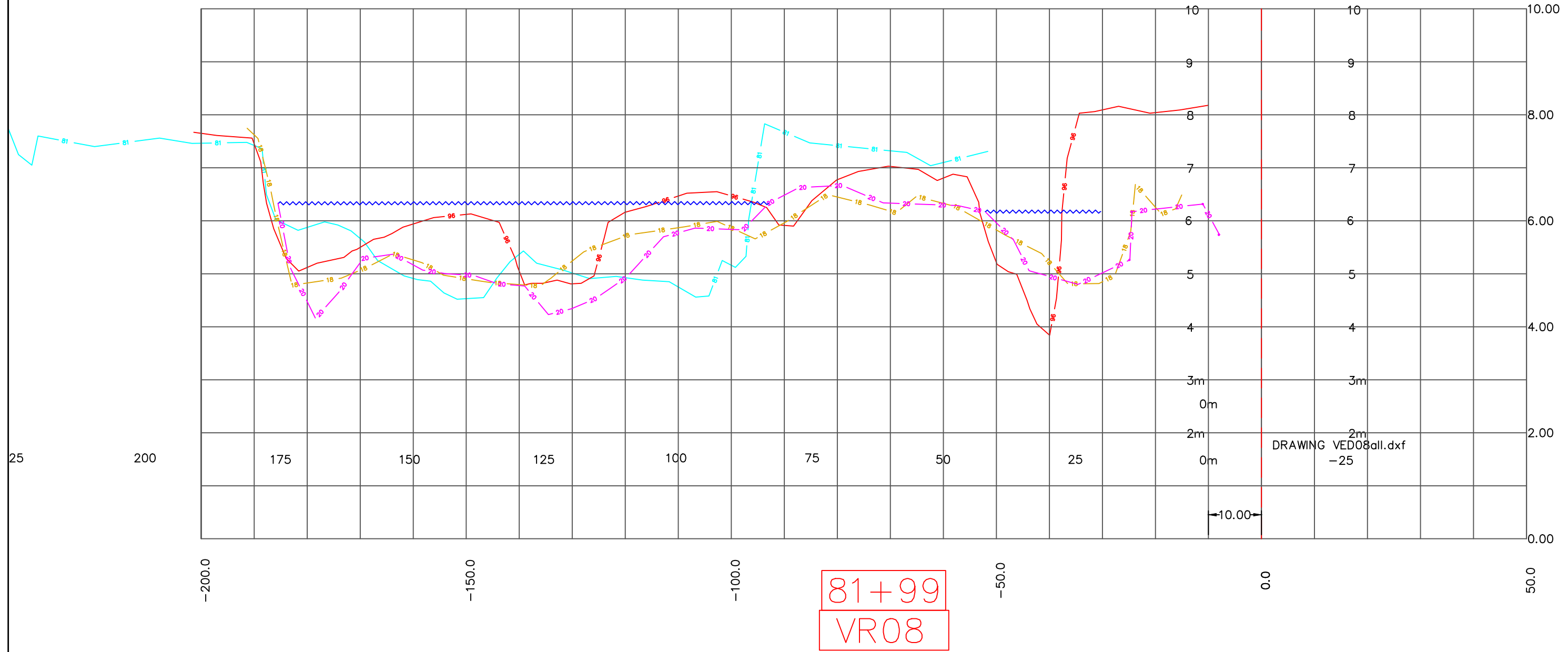
Set in 2001.

G/L8.02m
REB2108
El.8.016m

G/L7.74m
REB1108
El.7.742m

11

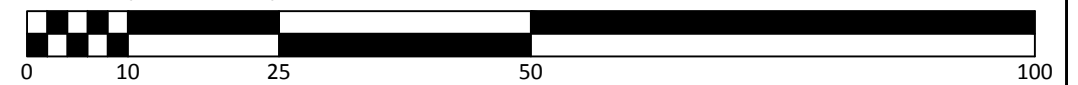
North Bank



DRAWING VED08all.dxf

10.00

SCALE (METRES) 1 : 750



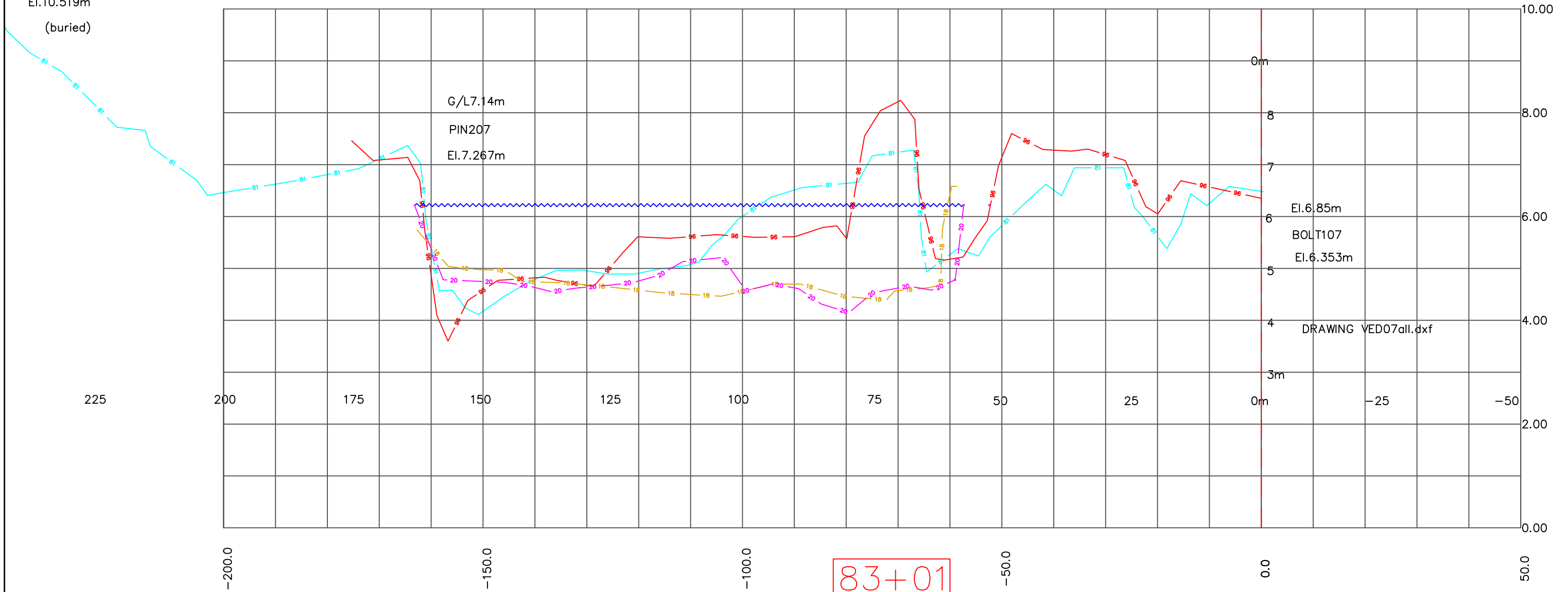
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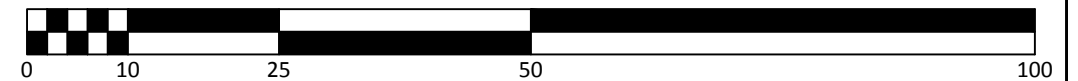
CLIENT: CITY OF CHILLIWACK			DRAWING TITLE: 2020 VEDDER RIVER SURVEY 1981,1996,2018 & 2020 RIVER SECTIONS		
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JOB NUMBER: 649-20			Pg 1 of 53		
DRAWING NUMBER: 649 030 / 2020			REV 0		

REB1207
 El.10.519m
 (buried)



83+01
 VR07

SCALE (METRES) 1 : 750

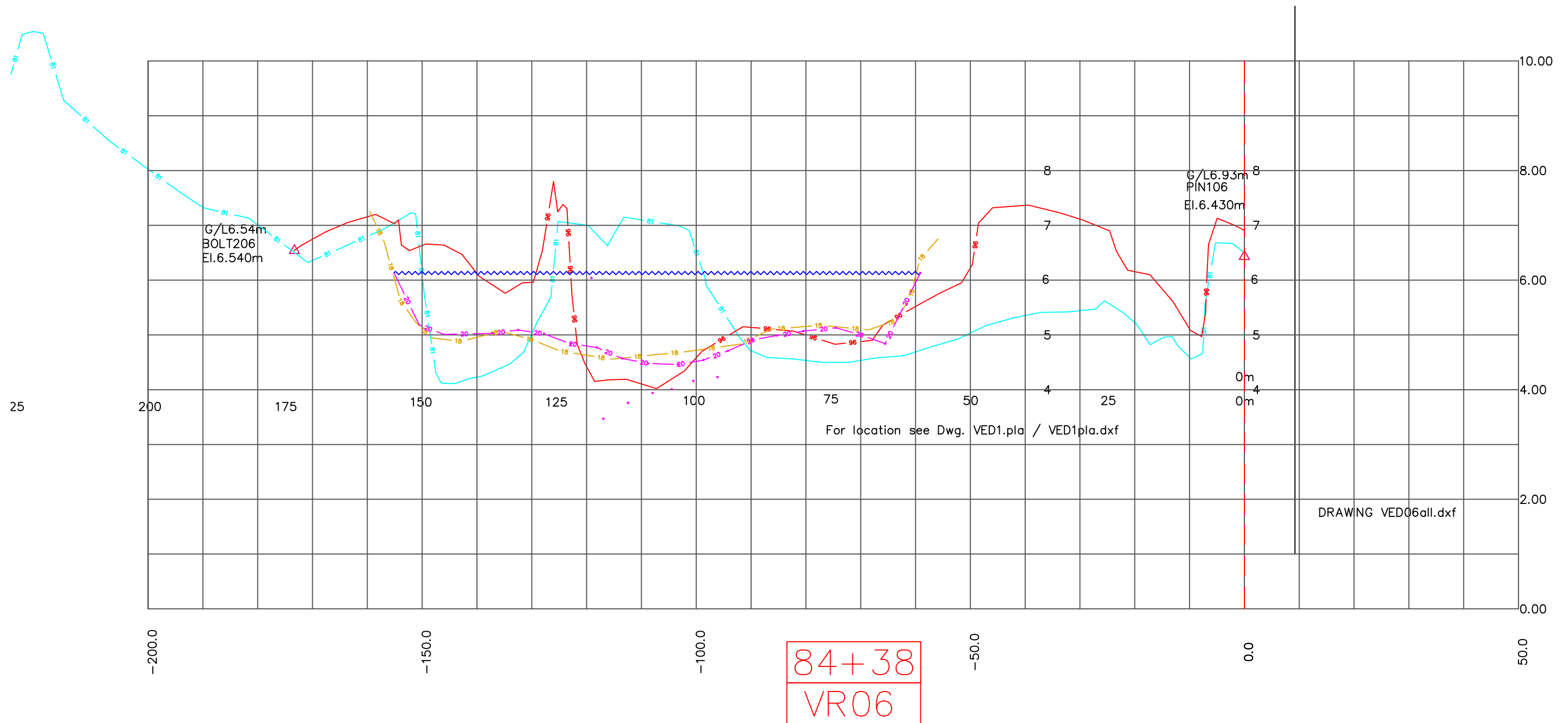


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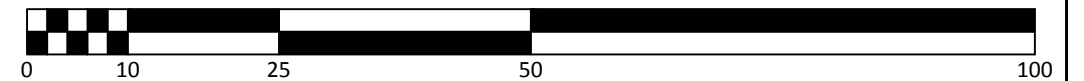
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JOB NUMBER: 649-20			Pg 1 of 53		
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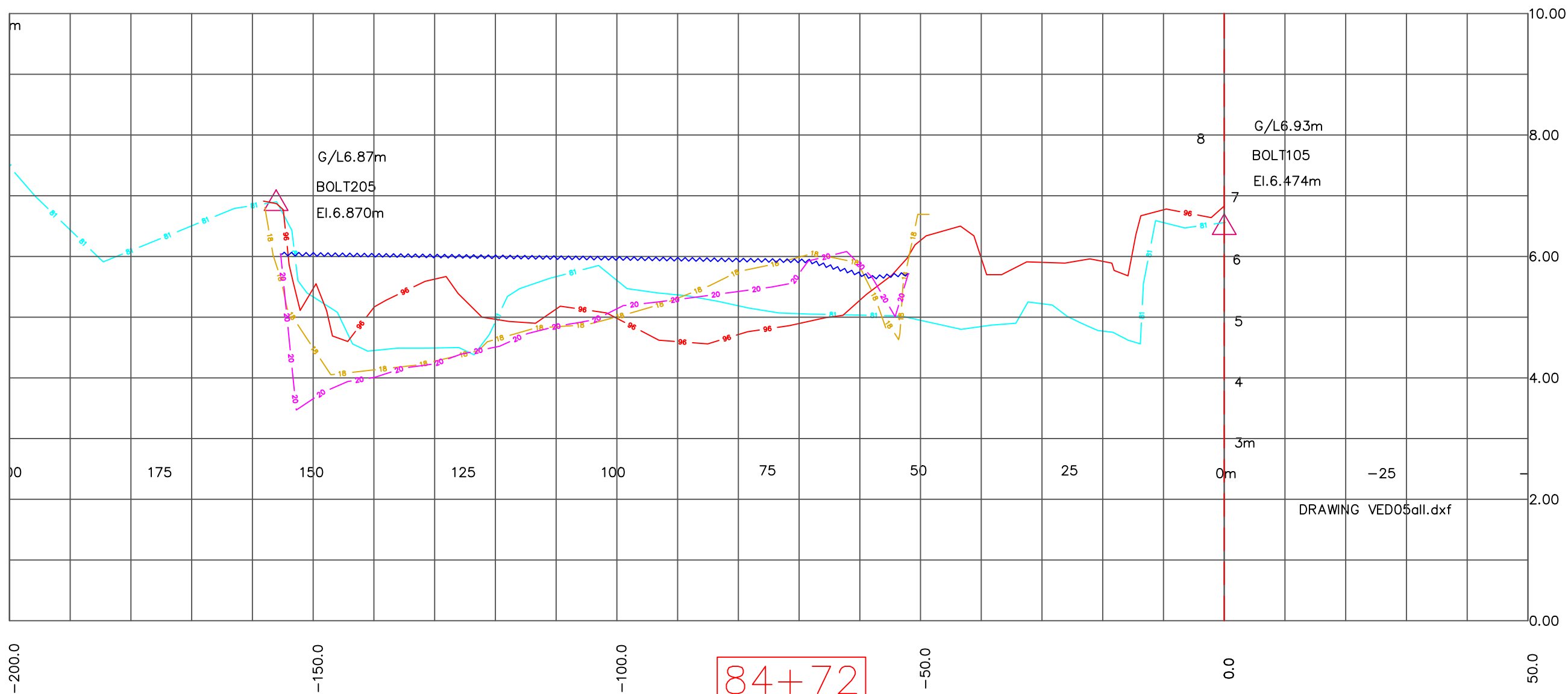
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												C3D AUTOCAD BY: PK/HAH		DATE: Mar 2020	DRAWING NUMBER: 649 030 / 2020		REV 0	

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PROJECT:
2020 VEDDER RIVER SURVEY

DRAWING TITLE:
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1981,1996,2018 & 2020
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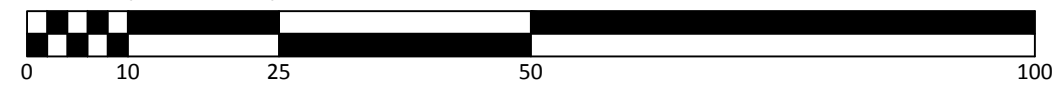
G/L6.93m
BOLT105
El.6.474m

G/L6.87m
BOLT205
El.6.870m

DRAWING VED05all.dxf

84+72
VR05

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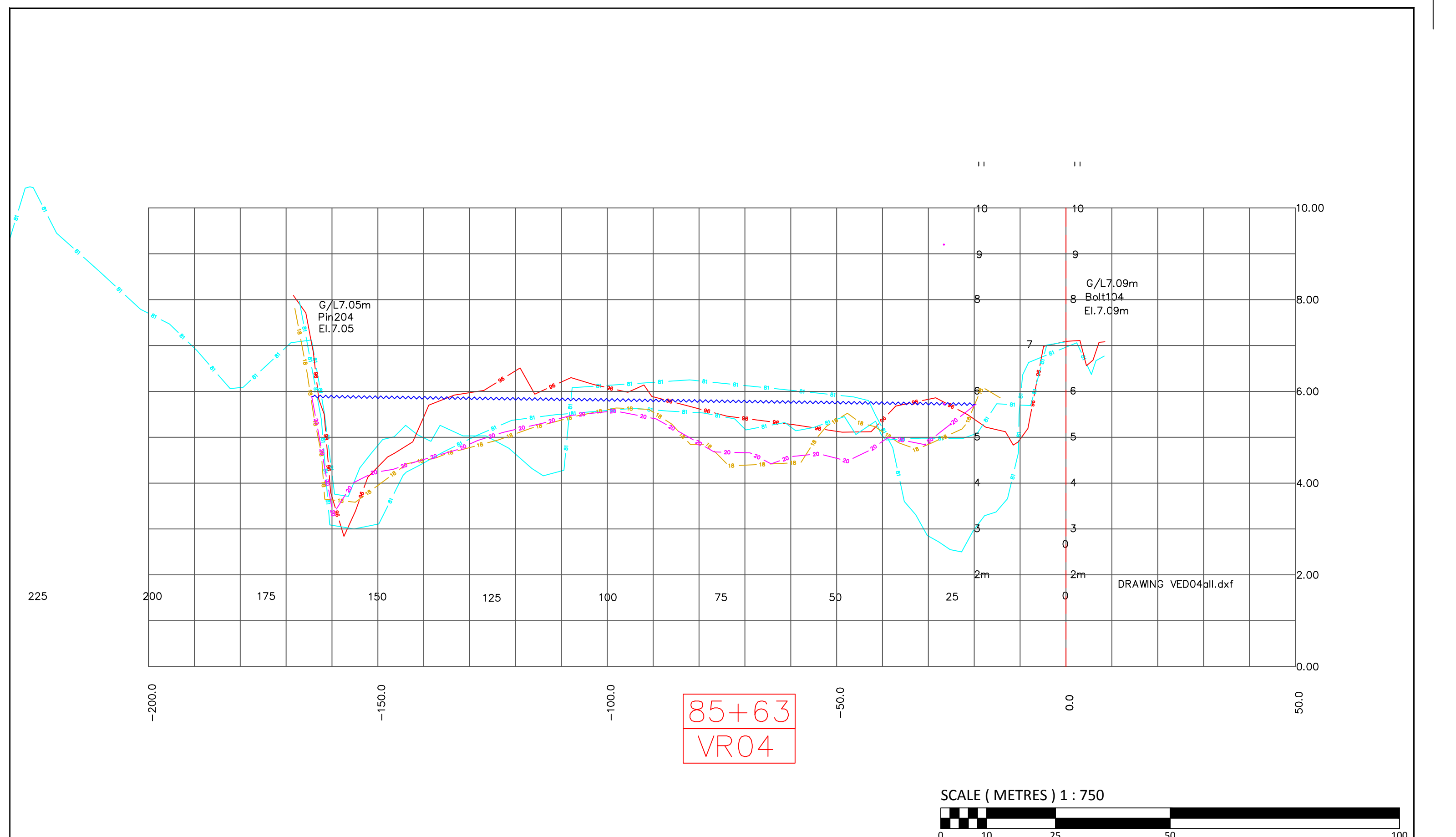
PROJECT:
2020 VEDDER RIVER SURVEY

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DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

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JOB NUMBER: 649-20 Pg 1 of 53
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 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

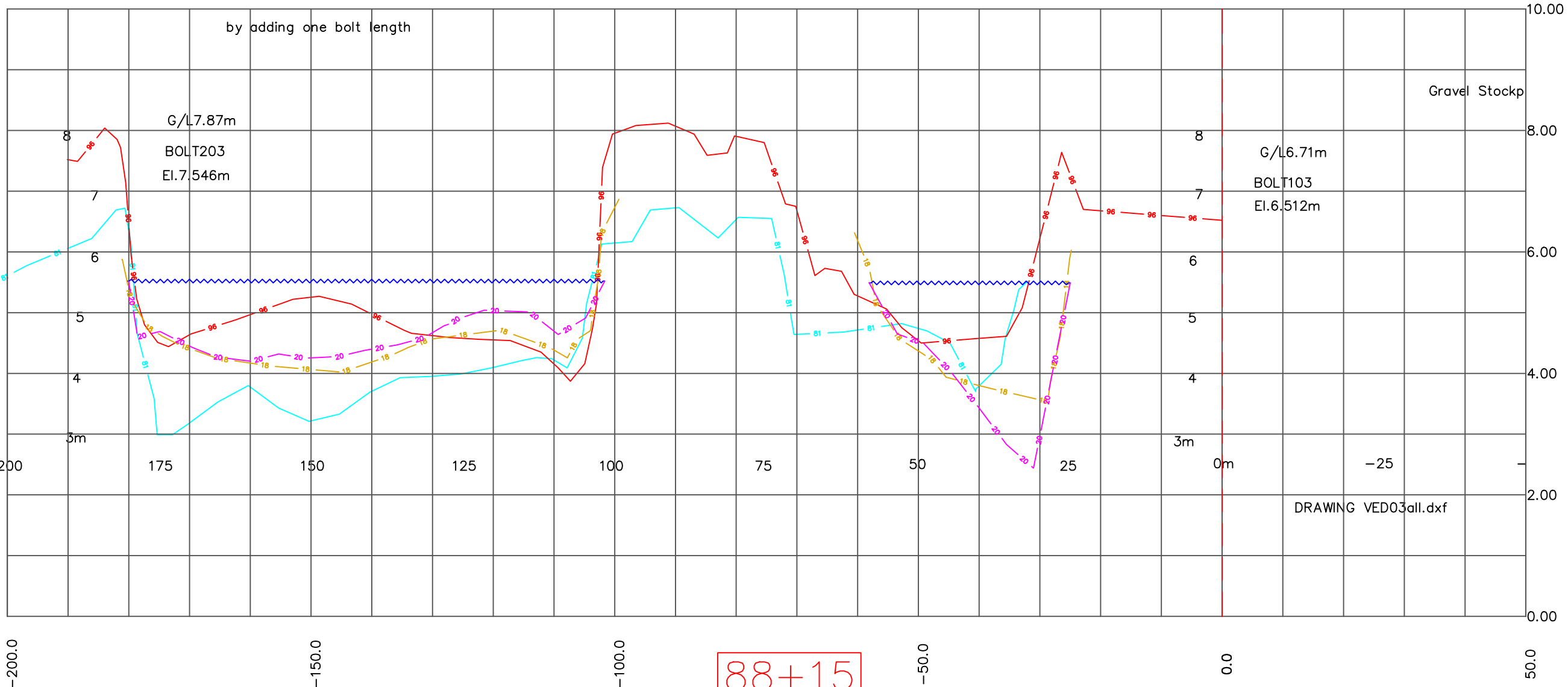
DRAWING TITLE:
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JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0

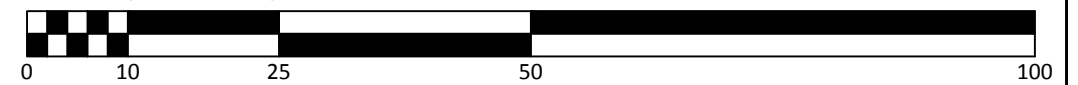
Bolt elevation raised in 2000

by adding one bolt length



DRAWING VED03all.dxf

SCALE (METRES) 1 : 750

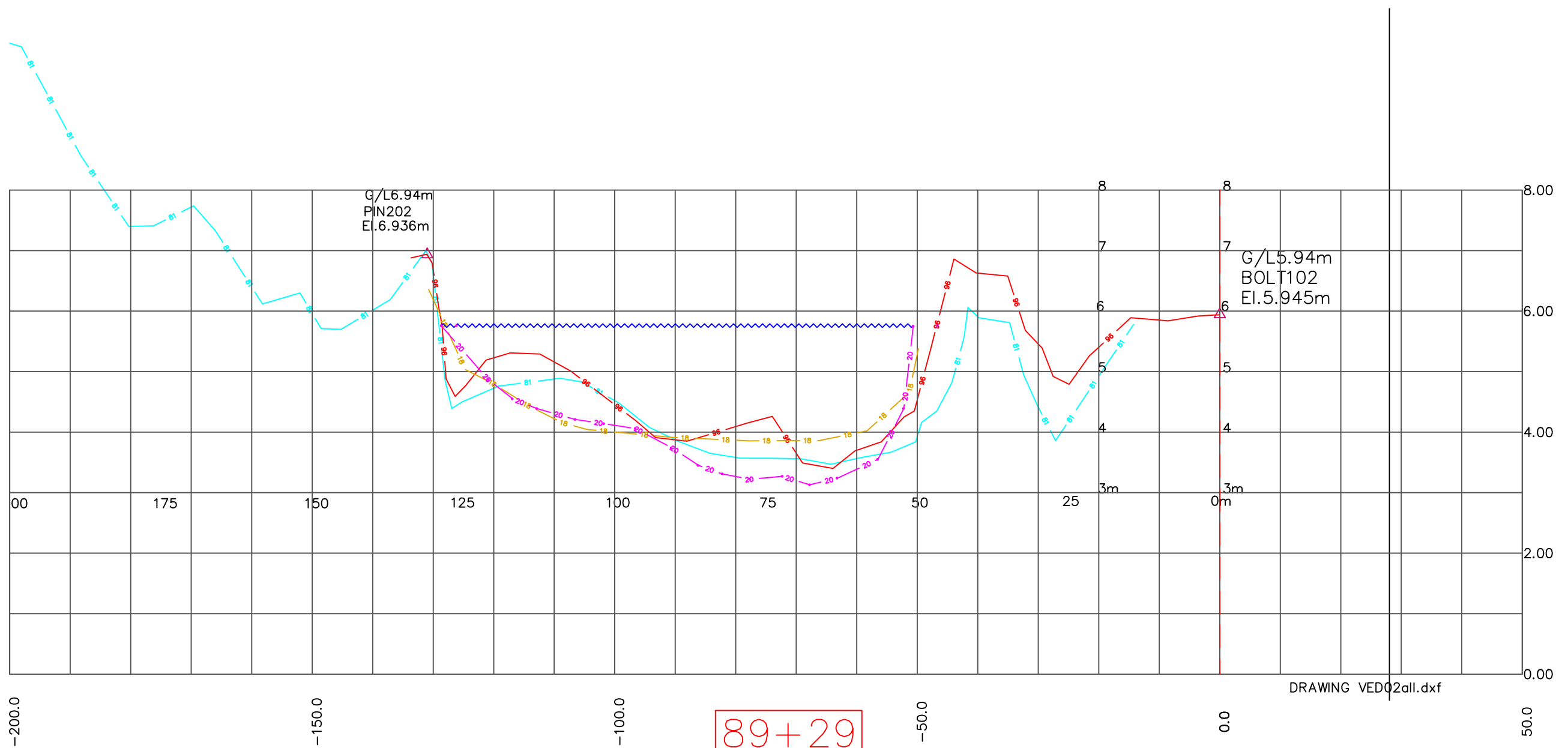


GENERAL NOTES:
 1. HORIZONTAL POSITIONING BY TRIMBLE GNSS RTK GPS RECEIVER, TO UTM GRID ZONE 10, NAD 83.
 2. THIS PLAN SHOWS / USES GRID DISTANCES
 3. ELEVATIONS ARE GEODETIC CGVD28
 4. ALIGNMENT STATIONING STARTS AT VEDDER CROSSING BRIDGE, SEE CONTROL DRAWING FOR LAYOUT
 5. ALL INFORMATION OF THIS PLAN IS REPRESENTATIVE OF CONDITIONS AT TIME OF SURVEY.

LEGEND:
 - 1. 1981 Survey Ground Line.
 - 2. 1996 Survey Ground Line.
 - 3. 2020 Top Water Surface Date of Section Survey.
 - 4. 2018 Survey Ground Line
 - 5. 2020 Survey Ground Line.

CRA -Canada Surveys Inc.
 HYDROGRAPHIC SURVEYS & MARINE INVESTIGATIONS
 CRA CANADA SURVEYS INC.
 #8 - 8758 Holding Road
 Chase, BC, V0E 1M2
 TEL. (604) 845-0174
 www.cracan.com

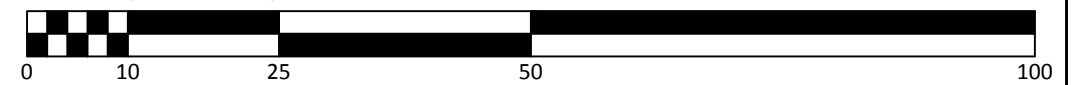
CLIENT: CITY OF CHILLIWACK			DRAWING TITLE: 2020 VEDDER RIVER SURVEY 1981,1996,2018 & 2020 RIVER SECTIONS		
PROJECT: 2020 VEDDER RIVER SURVEY			SCALE: 1:750 / 1:75 Sections		
1	XX / XX / XX	XXX	HAH	HAH	HAH
NO.	DATE	REVISION / ISSUE	BY	CH	AP
SURVEYED BY: HAH			DATE: Jan - Feb 2020		
C3D AUTOCAD BY: PK/HAH			DATE: Mar 2020		
JOB NUMBER: 649-20			Pg 1 of 53		
DRAWING NUMBER: 649 030 / 2020			REV 0		



89+29
VR02

DRAWING VED02all.dxf

SCALE (METRES) 1 : 750



GENERAL NOTES:
 1. HORIZONTAL POSITIONING BY TRIMBLE GNSS RTK GPS RECEIVER, TO UTM GRID ZONE 10, NAD 83.
 2. THIS PLAN SHOWS / USES GRID DISTANCES
 3. ELEVATIONS ARE GEODETIC CGVD28
 4. ALIGNMENT STATIONING STARTS AT VEDDER CROSSING BRIDGE, SEE CONTROL DRAWING FOR LAYOUT
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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

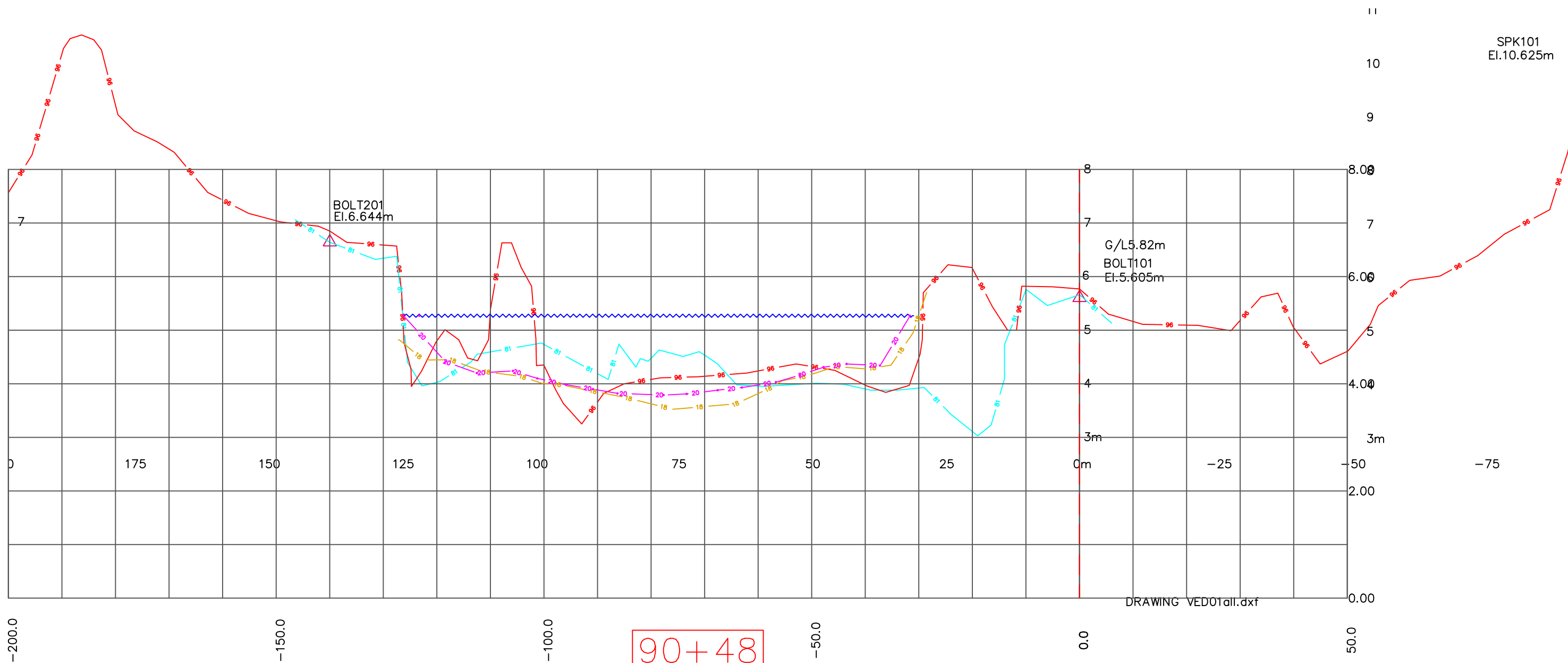
PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

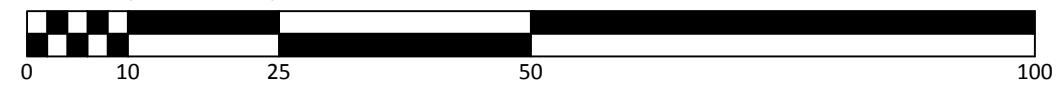
SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0



DRAWING VED01.dwg

SCALE (METRES) 1 : 750



GENERAL NOTES:
 1. HORIZONTAL POSITIONING BY TRIMBLE GNSS RTK GPS RECEIVER, TO UTM GRID ZONE 10, NAD 83.
 2. THIS PLAN SHOWS / USES GRID DISTANCES
 3. ELEVATIONS ARE GEODETIC CGVD28
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NO.	DATE	REVISION / ISSUE	BY	CH	AP
1	XX / XX / XX	XXX	HAH	HAH	HAH

CLIENT:
CITY OF CHILLIWACK

PROJECT:
2020 VEDDER RIVER SURVEY

SURVEYED BY: HAH DATE: Jan - Feb 2020
 C3D AUTOCAD BY: PK/HAH DATE: Mar 2020

DRAWING TITLE:
2020 VEDDER RIVER SURVEY
1981,1996,2018 & 2020
RIVER SECTIONS

SCALE: 1:750 / 1:75 Sections

JOB NUMBER: 649-20 Pg 1 of 53
 DRAWING NUMBER: 649 030 / 2020 REV 0