

## 6 Profile

This part deals with the design of vertical alignment of the suggested highway.

## 6.1 Existing ground

To draw existing ground level along centerline of the roadway being designed, select create profile from surface. A new window will appears allowing user to draw a profile for a specific alignment and surface. After selecting an alignment and surface, choosing the starting and ending stations, press Add button then press draw a profile view button.

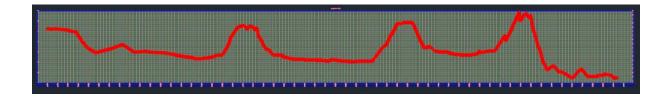
A Create Pr	ofile from S	urface		-			100	-		×
Alignment:					Select s	urfaces:				
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Station rar	nge									
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Profile list:										
Name	Description	Type	Data Sou	Offset	Update	Laver	Style	Station		Eleva
					-,	,		Start	End	M
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Remove			Draw in pro	file view			ОК	Cancel	Н	elp

Another window will appear asking for certain information such as alignment name, surface name, maximum and miniumu elevations, start and end stations.



Create Profile View - Gener	1	
General	Select alignment:	
Station Range	*D My alignment4 🗸	8
Station Range	Profile view name:	
Profile View Height	my profile	1
Profile Display Options	Description:	-
Pipe/Pressure Network		
Data Bands	Profile view style:	
	Profile View 👻 🌄 🗖	
Profile Hatch Options	Profile view layer:	
	C-ROAD-PROF-VIEW	he he
	Show offset profiles by vertically stacking profile views	
	< Back Next > Create Pro	file View Cancel Help

Finally press create profile view and then select a position on screen in which you want to draw your profile. The resulted profile will be drawn as shown in figure below





## **Other learning Sources**

1. Lab lessons: students should apply Civil 3D fundamentals during laboratory lessons.

## **Other references**

- 1. Mastering AutoCAD Civil 3D 2017, Autodesk Official Press.
- 2. AutoCAD Civil 3D Essentials, by Eric Chappell.