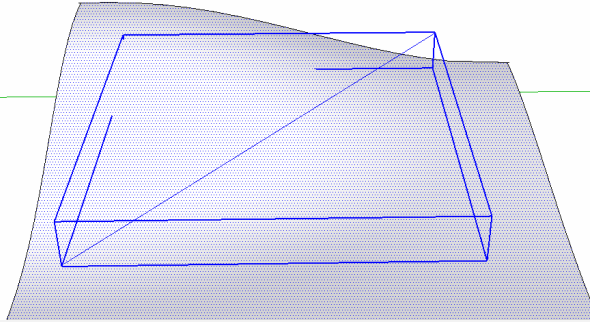


Instant Road

Parameters Road from CenterLine

In each of the examples, a different setting or group of settings is chosen. The corresponding result is shown on the right.

(If you're not using the Pro version, road width is limited to 6-10 feet (182-304cm), maximum shoulder width is 3 feet (91cm), curb width is 6 inches (15cm))



To try out these parameter settings, make a terrain plus a straight line. The terrain must be active and the line must be in a group.

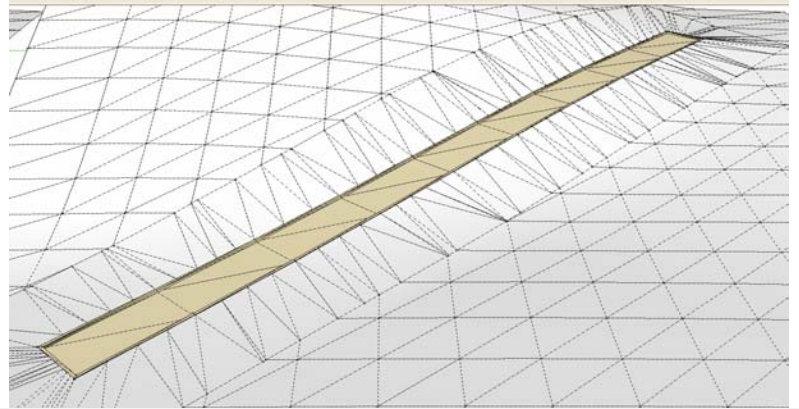
Select the group plus the terrain and choose **Plugins / Instant Road / Road from CenterLine**.

Shoulder Width: 15'

Make Road from Center Line Edge(s) Important: Save Work before ru... [X]

Road Width	10'
Shoulder Width	15'
Make Curb?	yes
Edit Additional Parameters?	no
Preview Road Outline?	Make Road - no preview

OK Cancel



Shoulder Width: 3'

Make Road from Center Line Edge(s) Important: Save Work before ru... [X]

Road Width	10'
Shoulder Width	3'
Make Curb?	yes
Edit Additional Parameters?	yes
Preview Road Outline?	Make Road - no preview

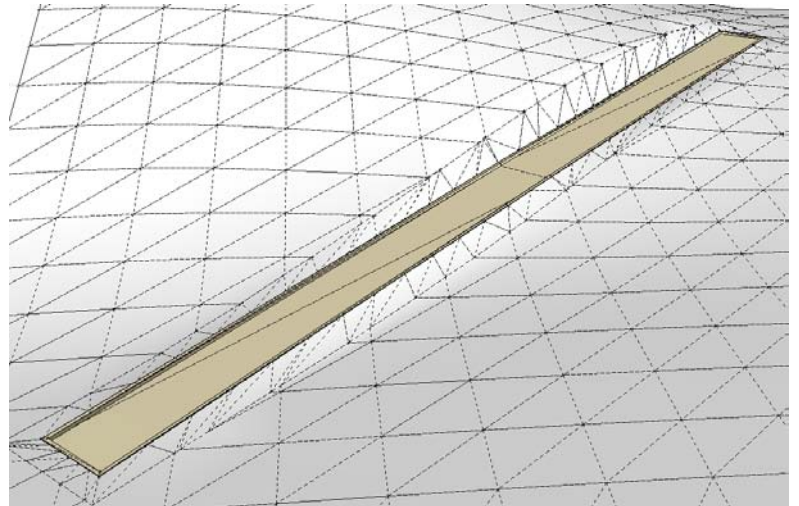
OK Cancel

Max Road Segment Length: 100'

Additional Parameters [X]

Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	100'
Road Curve Smoothing	none
Adjust Number of Curve Segments	same as input
Flatten Vertical Curves and Bumps?	no
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"

OK Cancel

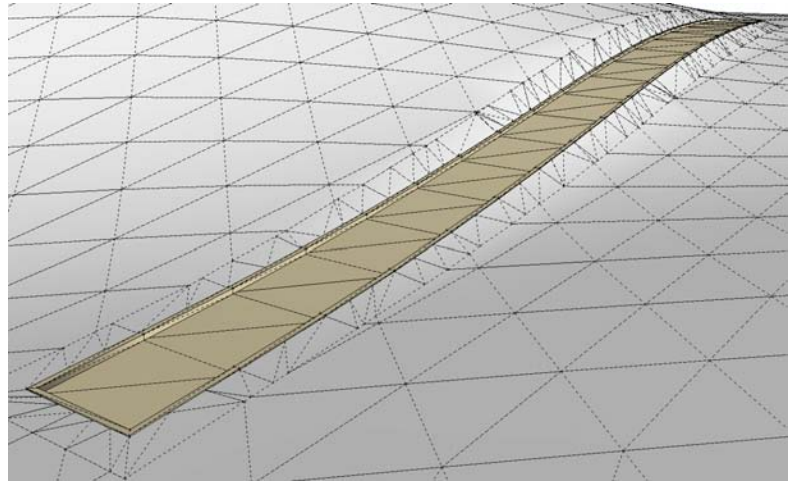


Max Road Segment Length: 10'

Additional Parameters [X]

Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	10'
Road Curve Smoothing	none
Adjust Number of Curve Segments	same as input
Flatten Vertical Curves and Bumps?	no
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"

OK Cancel

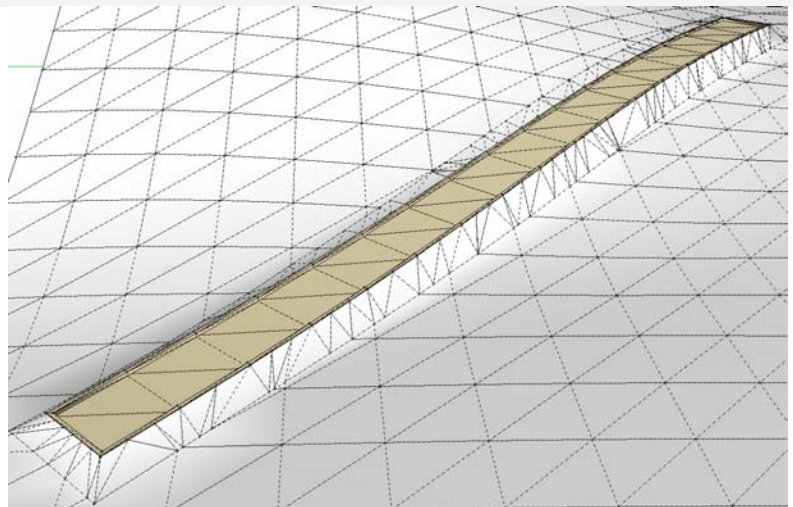


Adjust Road Subgrade Height: 2'

Additional Parameters [X]

Adjust Road Subgrade Height: +/-	2'
Max Road Segment Length	10'
Road Curve Smoothing	none
Adjust Number of Curve Segments	same as input
Flatten Vertical Curves and Bumps?	no
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"

OK Cancel

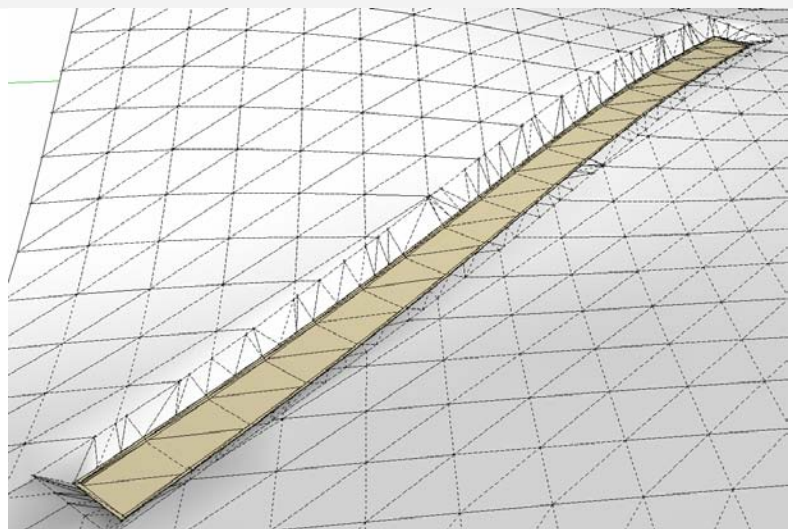


Adjust Road Subgrade Height: -2'

Additional Parameters [X]

Adjust Road Subgrade Height: +/-	-2'
Max Road Segment Length	10'
Road Curve Smoothing	none
Adjust Number of Curve Segments	same as input
Flatten Vertical Curves and Bumps?	no
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"

OK Cancel



Top of Curb above or below grade +/-: 6"

Additional Parameters

Adjust Road Subgrade Height: +/-

Max Road Segment Length

Road Curve Smoothing

Adjust Number of Curve Segments

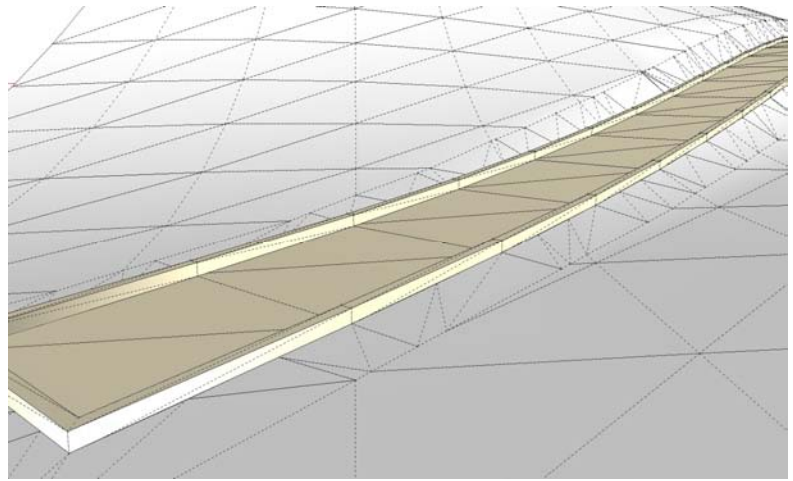
Flatten Vertical Curves and Bumps?

Flatten Vertical Curves Smaller Than:

Curb Height (above Road)

Curb or Sidewalk Width

Top of Curb above or below grade +/-



Top of Curb above or below grade +/-: -1'

Additional Parameters

Adjust Road Subgrade Height: +/-

Max Road Segment Length

Road Curve Smoothing

Adjust Number of Curve Segments

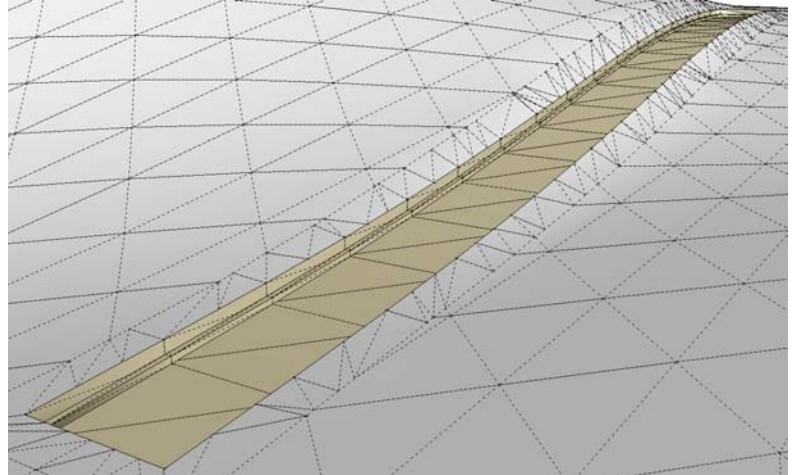
Flatten Vertical Curves and Bumps?

Flatten Vertical Curves Smaller Than:

Curb Height (above Road)

Curb or Sidewalk Width

Top of Curb above or below grade +/-



Curb or Sidewalk Width: 3'

Additional Parameters

Adjust Road Subgrade Height: +/-

Max Road Segment Length

Road Curve Smoothing

Adjust Number of Curve Segments

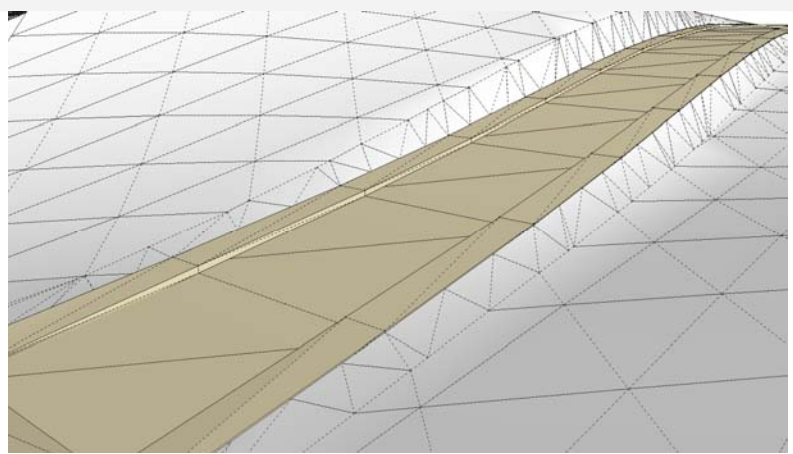
Flatten Vertical Curves and Bumps?

Flatten Vertical Curves Smaller Than:

Curb Height (above Road)

Curb or Sidewalk Width

Top of Curb above or below grade +/-



Make Curb? no

Make Road from Center Line Edge(s) Important: Save Work before ru... [X]

Road Width	10'
Shoulder Width	3'
Make Curb?	no
Edit Additional Parameters?	no
Preview Road Outline?	Make Road - no preview

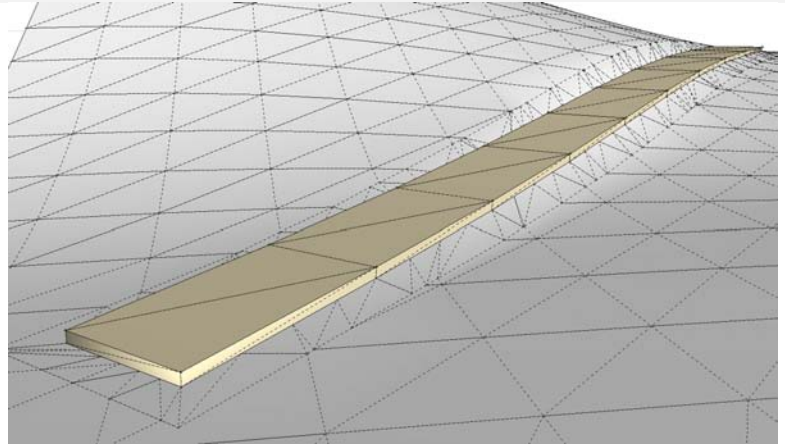
OK Cancel

Road Thickness or Depression: 10"

Additional Parameters [X]

Road Thickness or Depression: +/-	10"
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	20'
Road Curve Smoothing	low
Adjust Number of Curve Segments	increase: 3x
Flatten Vertical Curves and Bumps?	yes
Flatten Vertical Curves Smaller Than:	10'

OK Cancel

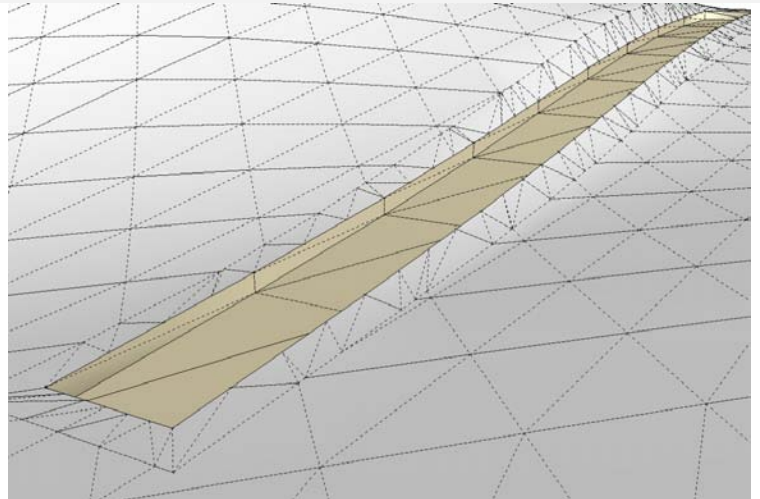


Road Thickness or Depression: -10"

Additional Parameters [X]

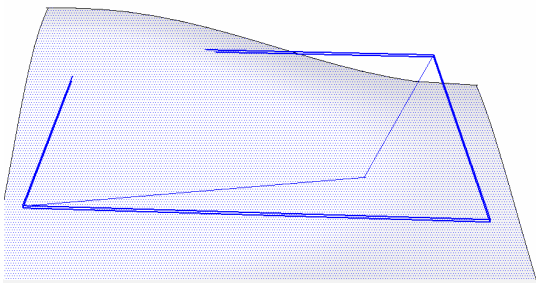
Road Thickness or Depression: +/-	-10"
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	20'
Road Curve Smoothing	low
Adjust Number of Curve Segments	increase: 3x
Flatten Vertical Curves and Bumps?	yes
Flatten Vertical Curves Smaller Than:	10'

OK Cancel



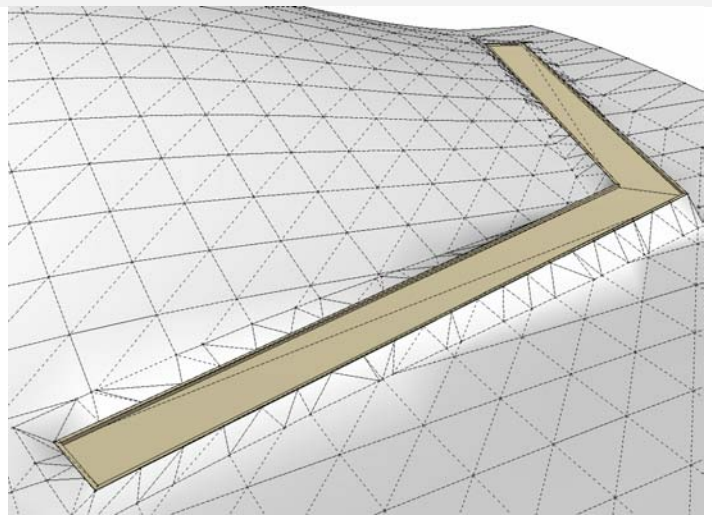
To try out these parameter settings, make a terrain plus 2 attached straight lines. The terrain must be active and the lines must be in a group.

Select the group plus the terrain and choose **“Plugins/ Instant Road/ Road from CenterLine”**. In the next menu, choose **“Edit Additional Parameters?” : yes**



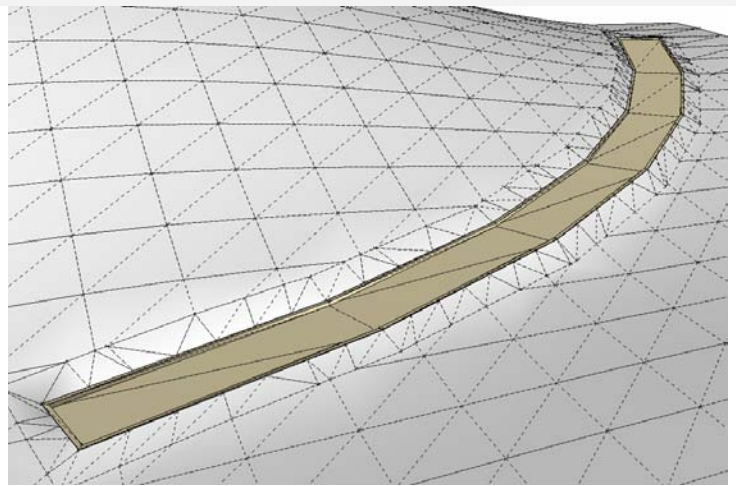
Road Curve Smoothing: none

Additional Parameters	
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	200'
Road Curve Smoothing	none
Adjust Number of Curve Segments	increase: 20x
Flatten Vertical Curves and Bumps?	yes
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	



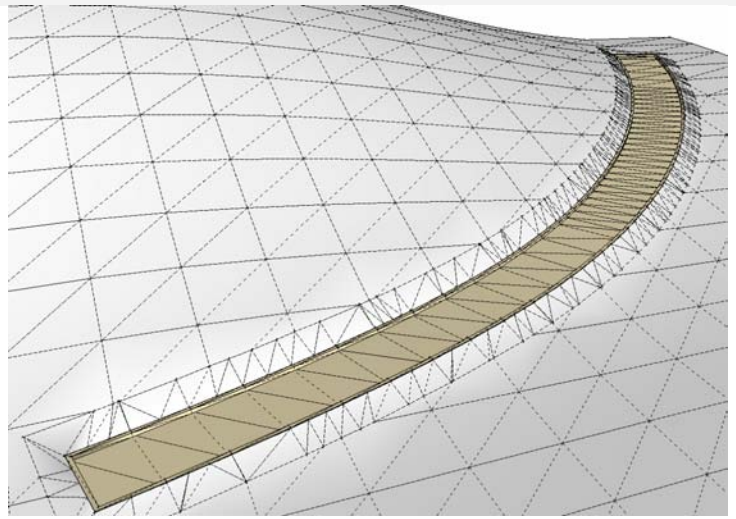
Road Curve Smoothing: low
Adjust Number of Curve Segments: Increase 3x

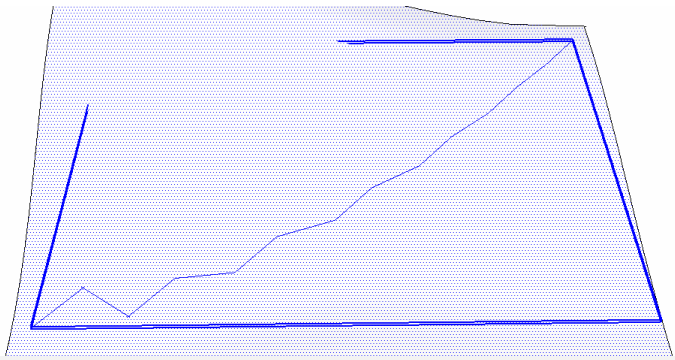
Additional Parameters	
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	200'
Road Curve Smoothing	low
Adjust Number of Curve Segments	increase: 2x
Flatten Vertical Curves and Bumps?	yes
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	



Road Curve Smoothing: low
Adjust Number of Curve Segments: Increase 20x

Additional Parameters	
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	200'
Road Curve Smoothing	low
Adjust Number of Curve Segments	increase: 20x
Flatten Vertical Curves and Bumps?	yes
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	



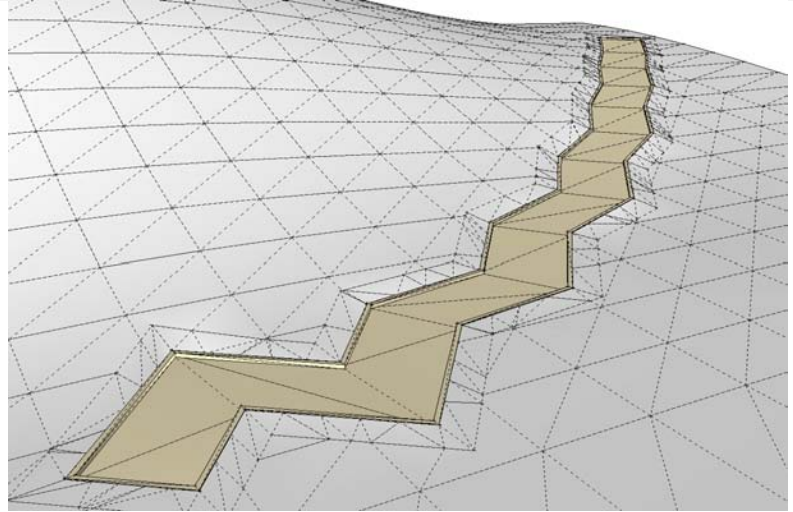


To try out these parameter settings, make a terrain plus a crooked series of lines. The terrain must be active and the lines must be in a group.

Select the group plus the terrain and choose **Plugins/ Instant Road/ Road from CenterLine**. In the next menu, choose **Edit Additional Parameters?** : **yes**

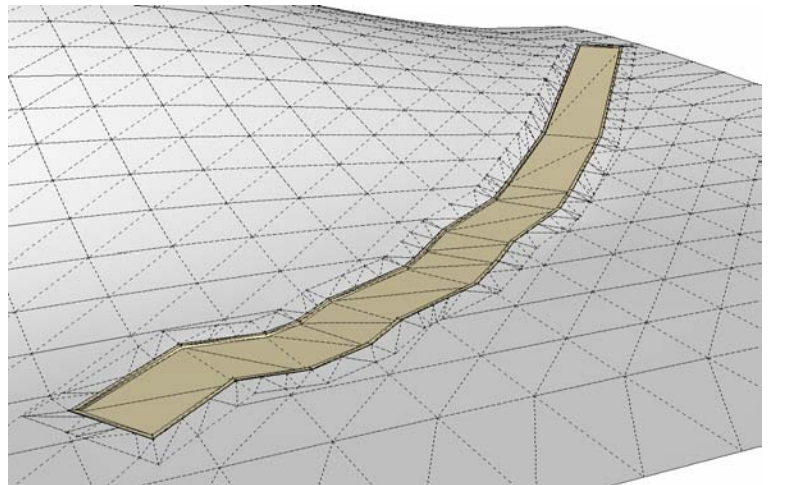
Road Curve Smoothing: none

Additional Parameters	
Adjust Road Subgrade Height: +/-	0
Max Road Segment Length	200'
Road Curve Smoothing	none
Adjust Number of Curve Segments	same as input
Flatten Vertical Curves and Bumps?	yes
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	



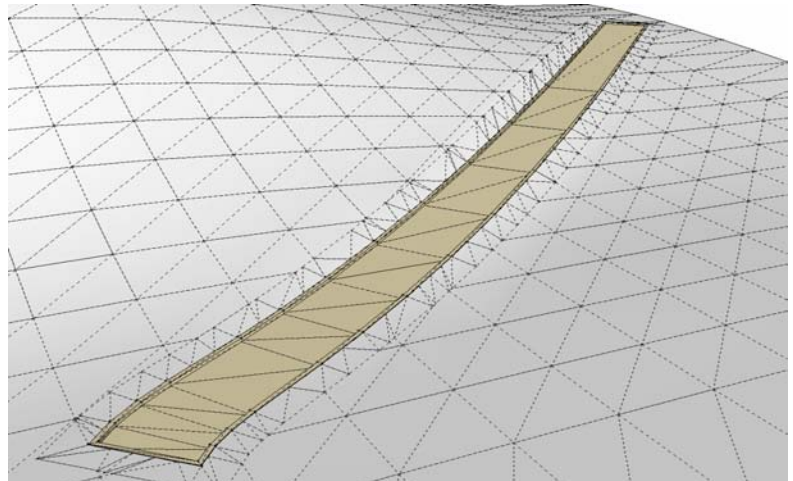
Road Curve Smoothing: medium

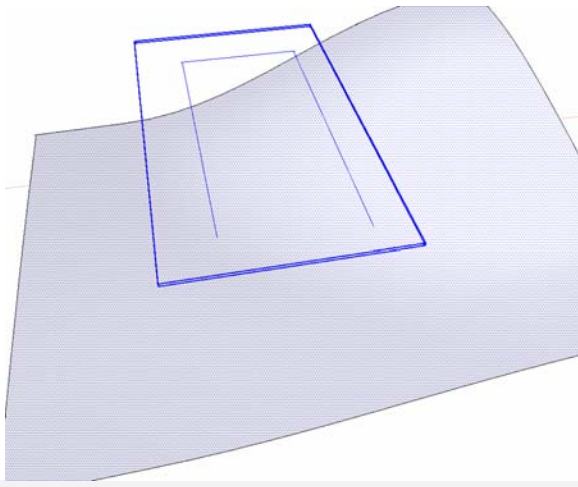
Additional Parameters	
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	200'
Road Curve Smoothing	medium
Adjust Number of Curve Segments	same as input
Flatten Vertical Curves and Bumps?	yes
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	



Road Curve Smoothing: max

Additional Parameters	
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	200'
Road Curve Smoothing	max
Adjust Number of Curve Segments	same as input
Flatten Vertical Curves and Bumps?	yes
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	



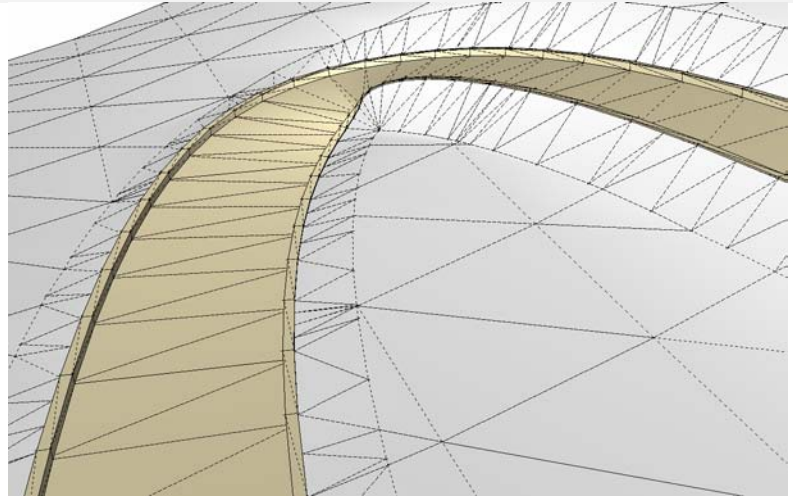


To try out these parameter settings, make a terrain plus a “U” shaped series of lines. The terrain must be active and the lines must be in a group.

Select the group plus the terrain and choose “**Plugins/ Instant Road / Road from CenterLine**”. In the next menu, choose “**Edit Additional Parameters?**” : **yes**

Flatten Vertical Curves and Bumps? no

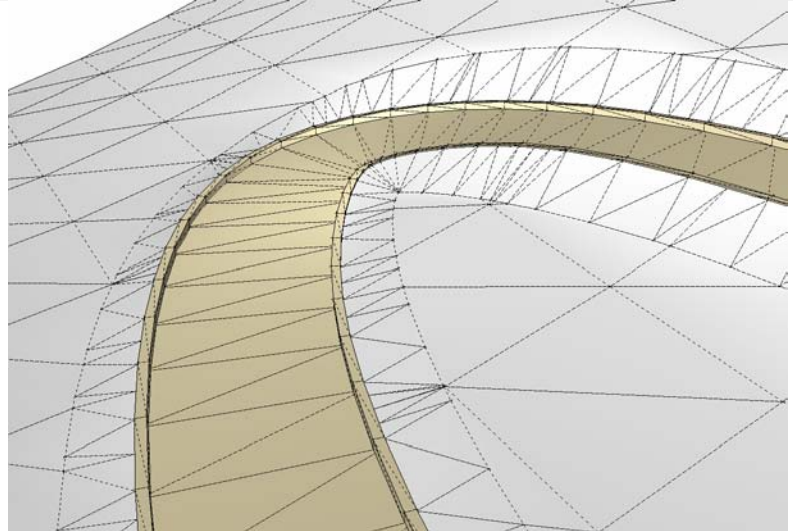
Additional Parameters	
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	20'
Road Curve Smoothing	low
Adjust Number of Curve Segments	increase: 10x
Flatten Vertical Curves and Bumps?	no
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	



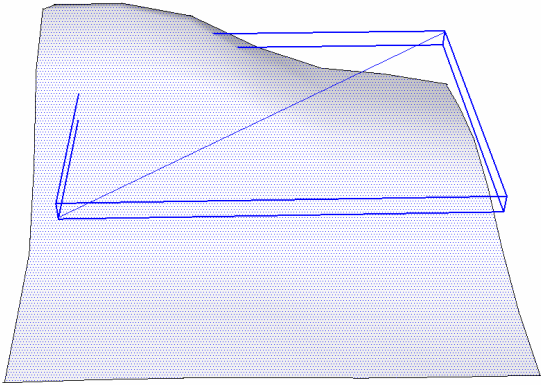
Under some conditions, the inside corner of a sharp turn will have a short steep section as shown. The solution uses the next parameter:

Flatten Vertical Curves and Bumps? yes
Flatten Vertical Curves smaller than: 10'

Additional Parameters	
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	20'
Road Curve Smoothing	low
Adjust Number of Curve Segments	increase: 10x
Flatten Vertical Curves and Bumps?	yes
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	



Why not always flatten vertical curves? Because a cross slope can occur when the road is curved - especially if the input value is greater than the width of the road.

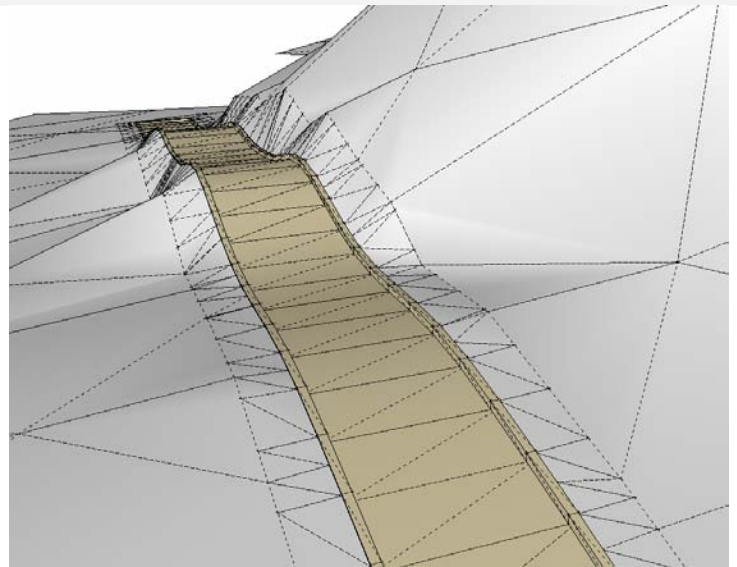


To try out these parameter settings, make a coarse, low polygon terrain plus a straight line. The terrain must be active and the line must be in a group.

Select the group plus the terrain and choose **“Plugins/ Instant Road / Road from CenterLine”**. In the next menu, choose **“Edit Additional Parameters?” : yes**

Max Road Segment Length: 5’
Flatten Vertical Curves and Bumps? no

Additional Parameters	
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	5'
Road Curve Smoothing	low
Adjust Number of Curve Segments	increase: 3x
Flatten Vertical Curves and Bumps?	no
Flatten Vertical Curves Smaller Than:	10'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	



Max Road Segment Length: 5’
Flatten Vertical Curves and Bumps? yes
Flatten Vertical Curves smaller than: 40’

Additional Parameters	
Adjust Road Subgrade Height: +/-	0"
Max Road Segment Length	5'
Road Curve Smoothing	low
Adjust Number of Curve Segments	increase: 3x
Flatten Vertical Curves and Bumps?	yes
Flatten Vertical Curves Smaller Than:	40'
Curb Height (above Road)	6"
Curb or Sidewalk Width	6"
Top of Curb above or below grade +/-	1"
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

