



Plateia
by **CGS Labs**

25
YEARS



**DESIGNING TRAFFIC SIGNS &
ROAD MARKINGS**





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Designing traffic signs & road markings

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Title: **Designing traffic signs & road markings**

Document date: 15.04.2020

Version: 1.0.

Printing: CGS Labs d.o.o.

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INTRODUCTION

These step-by-step instructions will lead you through the workflow procedure in order to get familiar with the software environment. »Starter .dwg files« should be used.

In this tutorial you will learn how to design traffic signs and road markings. You will get to know which tools are available for editing traffic signalization and how to create a report of traffic signs or road markings.

1. TRAFFIC SIGNS

Designing traffic signs is enabled in module Autosign. All objects are linked to Plateia alignments with automatic stationing assigned, user comment added, custom labels and more.

Open the drawing »QTD_2.dwg«.

1.1 Library manager

1. Your alignment »Axis_road« should be set as active (the icon next to the alignment name is coloured blue).

2. From the Ribbon under *Autosign 3D* tab, on

Libraries panel click *Library manager*.



3. In *Library Manager* dialog box, libraries can be downloaded. To download a random library,



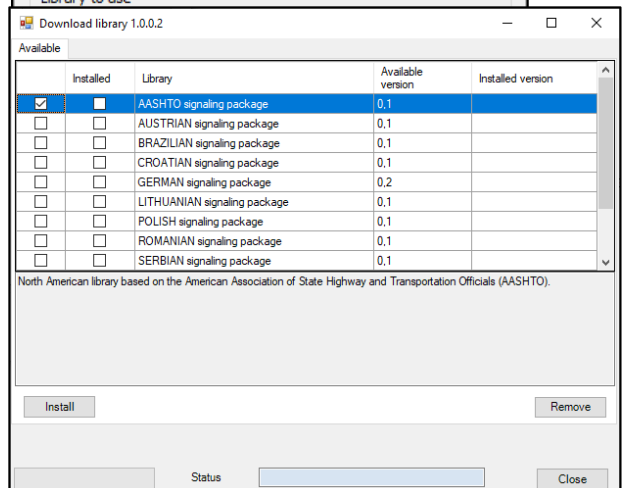
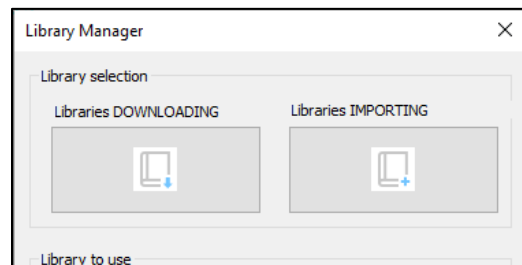
click on button.

4. Check AASHTO signalling package and click *Install*. When download is finished, click *Close*.
5. Close *Library manager* and once again click on



icon *Library manager*.


6. In *Library manager*, check *AASHTO_TS* and click *OK*.



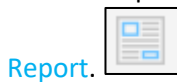
1.2 Draw traffic sign

1. On **Vertical Signs** panel, click on icon **Traffic**

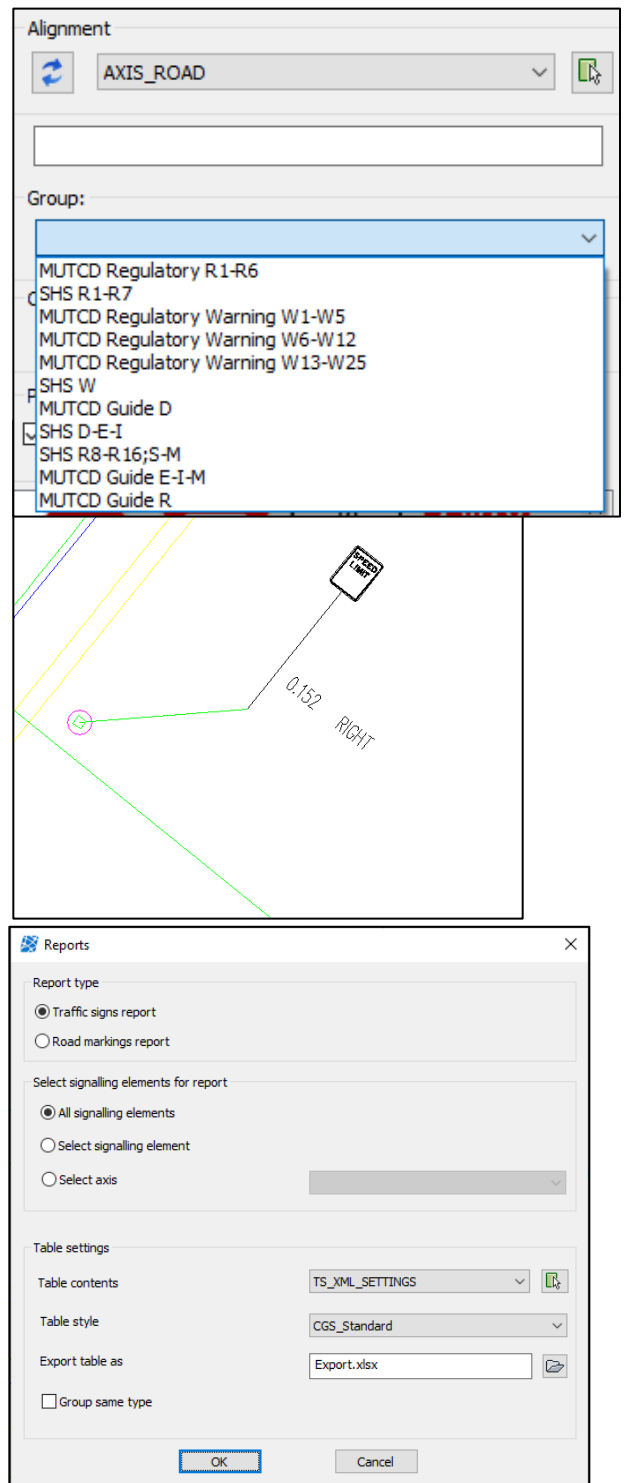





2. Traffic signs library opens on the left side of the program. Various Groups of traffic signs are available. Select a random group and a traffic sign from it.
3. In the next step select a point in the drawing where you want to place a traffic sign. Instead of selecting a point, you can define a station in command line.
4. Then define a location of a traffic sign in the drawing (with mouse click). At the input of an individual sign you determine the stand of the traffic sign, its position, rotation and size. The user can set the dimension and shape of the posts and foundations of the traffic signs in the "Post and fundament" dialog, with the click on  button.

5. After Traffic signs are designed, it is possible to create a report. On **Reports** panel, click on icon



6. In *Reports* dialog box select Report type: *Traffic signs report*.
Select signalling elements for report: *All signalling elements*
Table contents: *TS_XML_SETTINGS*
Table style: *ARO_MAINPTSTBL*
7. Confirm with OK and define report insertion point.



TRAFFIC SIGNS REPORT 1/1										
CODE	COMMENT	DIMENSION	HEIGHT	NR. OF POSTS	NR. OF SIGNS	POSITION	POST HEIGHT	REFLECTIVE MATERIAL	SCHEME	STATION
			2.00	1	1		2.00			0.566
			2.00	1	1		2.00			0.640
			2.00	1	1		2.00			0.472

2. ROAD MARKINGS

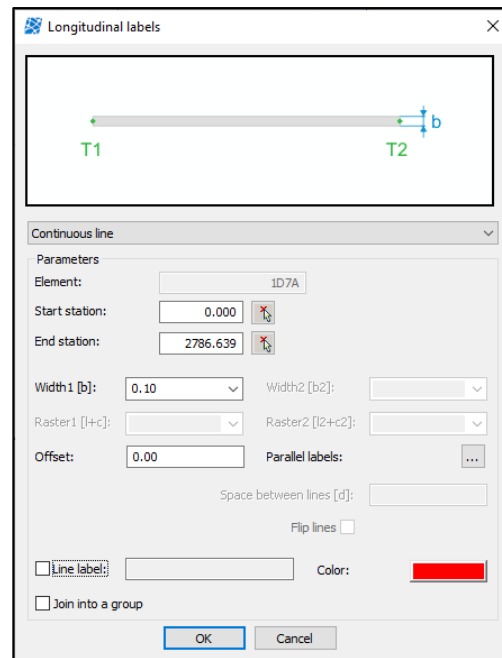
It is possible to design line markings, cross markings and other road markings.

2.1 Line markings

1. From the Ribbon under *Autosign 3D* tab, on **Pavement markings** panel click the icon *Line*



2. In the drawing select a line, on which you want to draw longitudinal marking.
3. In dialog box specify:
Type of the line (in drop down menu),
Start and end station stay as default (from the beginning to the end of selected line)
Width: 0.10
Offset: 0.00
Colour: *red*
4. Confirm with *OK*.

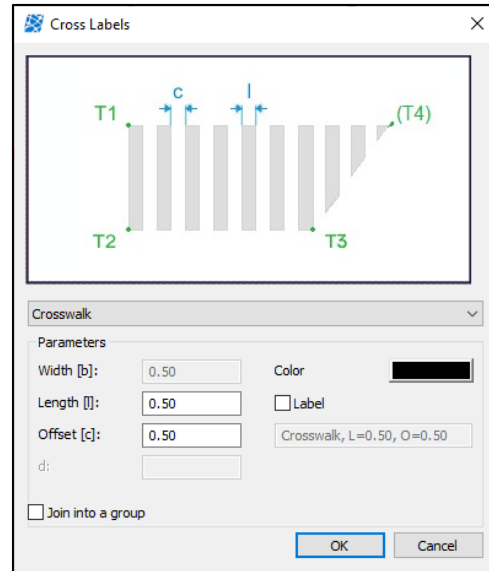


2.2 Cross markings


1. From the Ribbon under *Autosign 3D* tab, on **Pavement markings** panel click the icon *Cross*

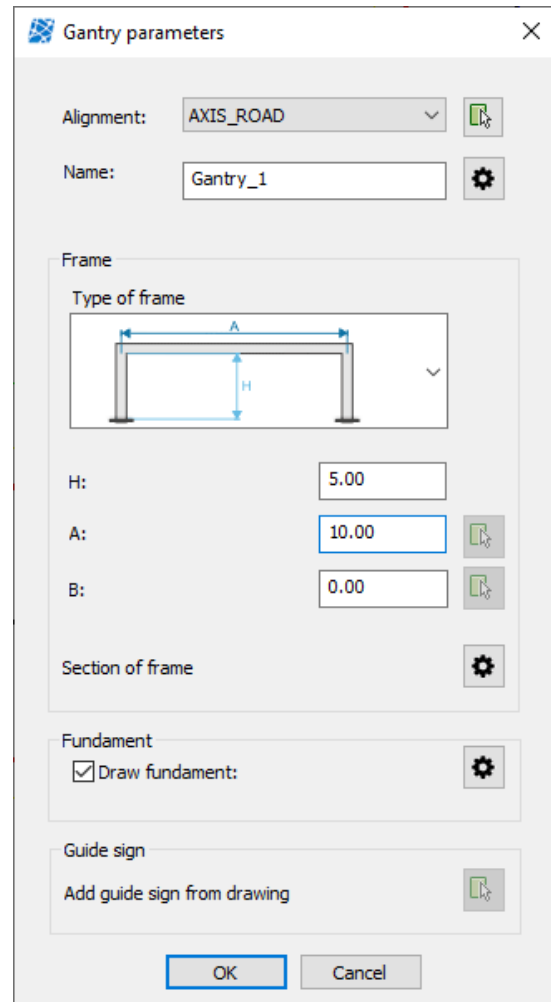


- In dialog box specify:
 - Type of cross marking: *Crosswalk*
 - Length: 0.50
 - Offset: 0.50
 - Color: *black*
- Confirm with OK and select three or possibly four border points in the drawing.
- 5.

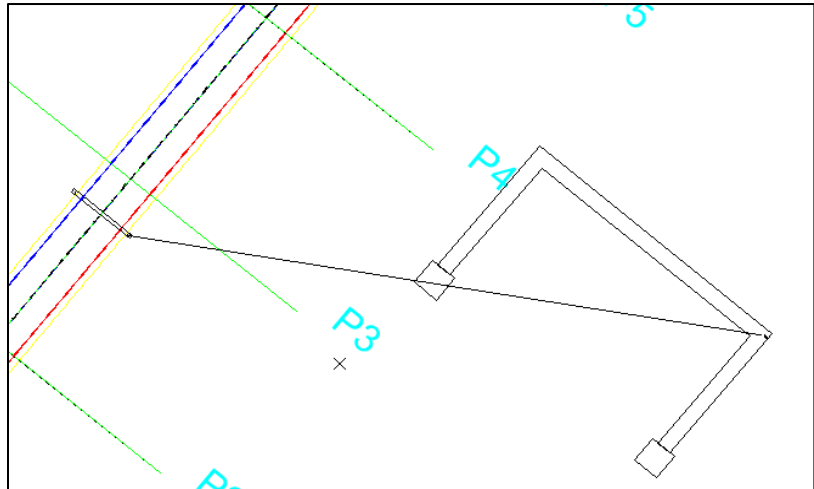


3. GANTRY

- From the Ribbon under *Autosign 3D* tab, on **Vertical signs** panel click the icon *Gantry*.
 
- In dialog box specify:
 - Alignment: *AXIS_ROAD*
 - Name: *Gantry_1*
 - H: 5
 - A: 10
 - B: 0
 - Check: *Draw fundament*
- Confirm with *OK*.
- Before selecting a point in drawing to locate gantry, enter R (rotate) in command line and press Enter.
- Select a point in the drawing to locate a gantry, and then rotate it. With one more mouse click insert gantry in the drawing.
- In the next step define a location of gantry preview in the drawing.




7. Guide sign can be placed on gantry if they are prepared beforehand.

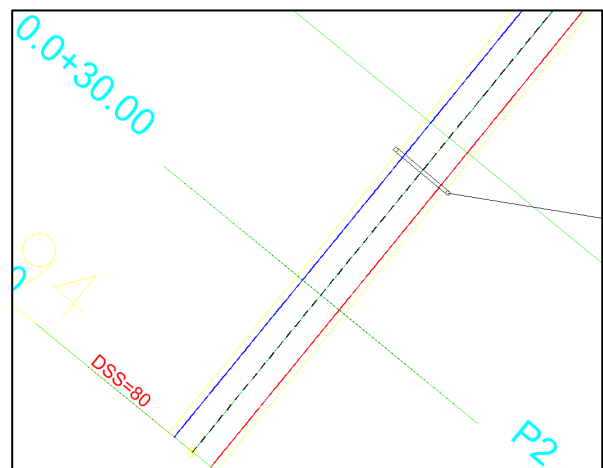


4. TOOLS


4.1 Edit

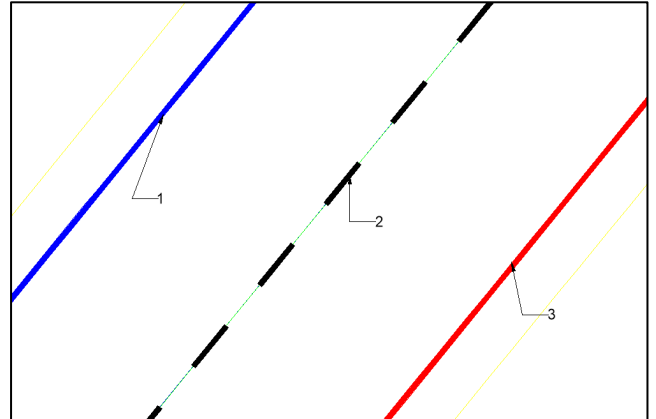
Traffic signs and road markings can be edited with different tools: edit, label, copy, delete, refresh and move.

1. From the Ribbon under *Autosign 3D* tab, on **Tools** panel, click on icon **Edit**. 
2. Select an element in the drawing you want to edit: for example select one longitudinal marking and press Enter.
3. Longitudinal labels dialog box opens and here you can edit any parameter. Change the color to blue and confirm with **OK**.




4.2 Label


1. From the Ribbon under *Autosign 3D* tab, on **Tools** panel, click on icon **Label**. 
2. Select an element in the drawing you want to label: for example select one longitudinal marking.
3. In the next step specify label position in the drawing, define a label number and press *Enter*.



4.3 Move

1. From the Ribbon under *Autosign 3D* tab, on **Tools** panel, click on icon **Move**. 
2. Select a traffic sign in the drawing you want to move and press *Enter*.
3. In the next step specify new traffic sign location and position the drawing, and press *Enter*.

4.4 Copy

1. From the Ribbon under *Autosign 3D* tab, on **Tools** panel, click on icon **Copy**. 
2. Select a traffic sign in the drawing you want to copy and press *Enter*.
3. In the next step specify new traffic sign location and position the drawing, and press *Enter*.

