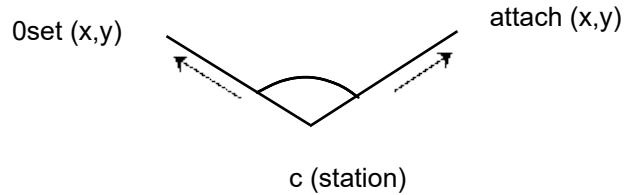


## TOTAL STATION CIVIL MANUAL

STAKEOUT: Please complete this section before using any part of the program (with real date only).  
Free station with Two points and R known level.



PLAN DATE Complete this section with point data that will be used in other parts of the program.

INSERTION: Filling this part of the program is needed for Rockware  
Rockworks also, to receive the map contour lines and  
longitudinal profiles and to saving file in dxf. format.

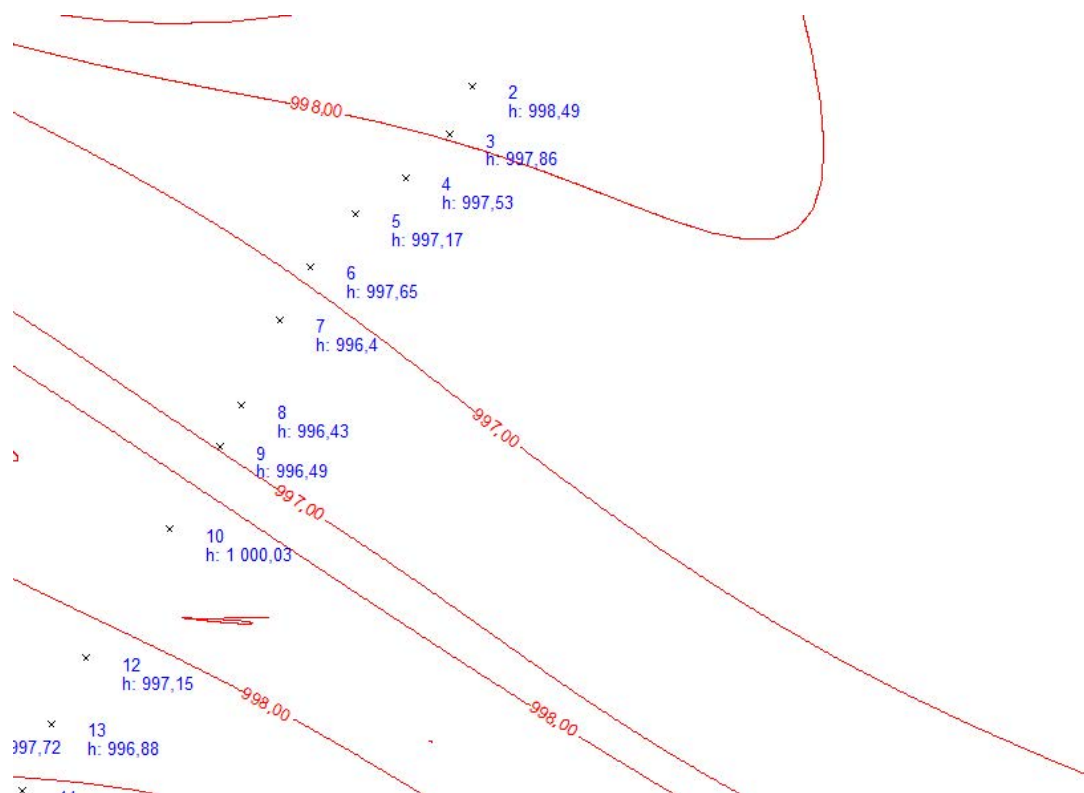
(Tested only for Rockworks16):

Open Rockworks-Borehole Manager-Fale-Import-Excel-  
Multiple Tables and insert file, wich was saved in xlsx. format.

Use Borehole Manager-Map-Borehole Location and Process

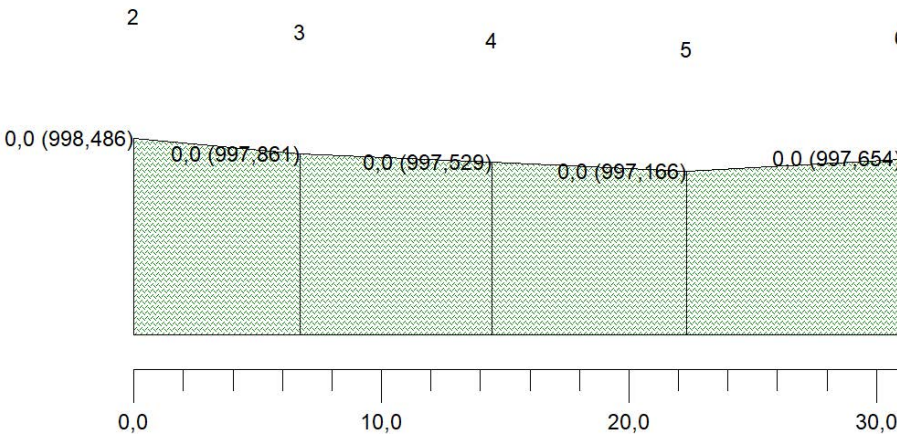
(Ctrl+G) to receuving 2 dimensional Borehole Location Map.

Use "Rockworks Sample" folder for example to see result easy.



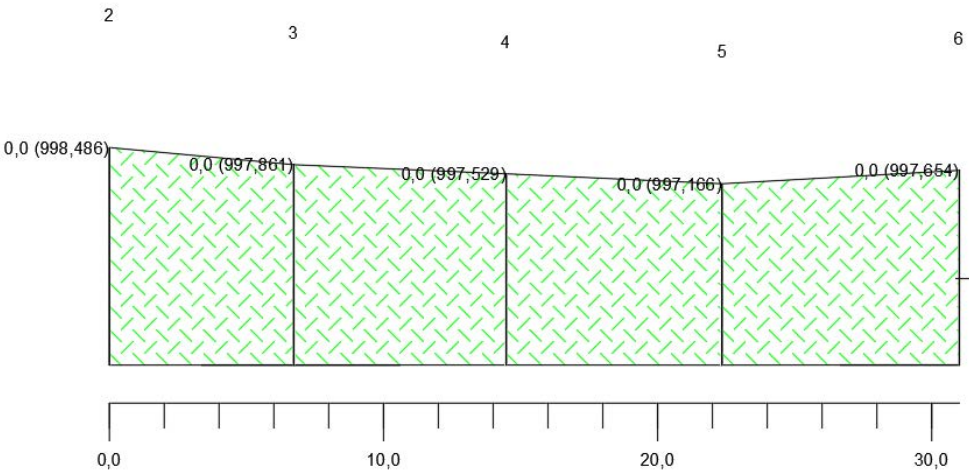
2 dimensional Borehole Location Map.

Cross-Section A-A'



Rockworks Section.

Cross-Section A-A'



Section from cad dxf file.

PLANING:        Use obtained data for planing  
                    points and adding a level with VD of Total Station

MEASURING: Take data from the Total Station (point name, angle, HD,  
                    VD, etc.) to find the coordinate and level  
                    of the points.

MEASURING    All data from the measurement will appear here.  
DATE:

LEVELING:       Use this part of the program only to establish level of the points.

AREA -            To calculate the area and perimeter of the site, mark any point to insert the  
PERIMETER    Total Station, do 0set on the first point.  
VOLUME:        After this begin measuring the polygon points to any direction consistently one  
                    after another.  
                    In the VOLUME part is possible to be calculated soil volume, wich needed  
                    removing or filling to get the project level on the polygon area.

