





















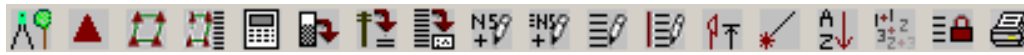
Update 03/11/03

A range of survey icons have been included in the user menu zip file to enhance the standard super string create / edit icons

| | |
|---|---|
|  | Create points menu (standard) |
|  | Create string menu (standard) |
|  | Create point intersection menu (standard) |
|  | Create circle menu (standard) |
|  | Create arc menu (standard) |
|  | Create / edit text menu (standard) |
|  | Create / symbol menu (standard) |
|  | Move / Edit point menu (standard) |
|  | Edit string menu (standard) |
|  | Delete string menu (standard) |
|  | Edit super string vertex / segment (standard) |
|  | Detail survey reductions menu |
|  | General strings edit menu |
|  | Triangulation menu |
|  | Lot calculations menu |
|  | Setout menu |
|  | Plan plotting menu |
|  | Global menu |
|  | Super string edit menu |
|  | Information menu |

Detail survey reduction menu

The procedures for reducing and editing a detail survey using the field file editor are streamlined in this toolbar



| | |
|--|---|
| | Detail Survey reductions menu <i>Survey</i> |
| | Control station entry option <i>Survey=>Extras=>Create control stations</i> |
| | Enter traverse option <i>Survey=>Extras=>Bearing/Distance entry</i> |
| | Adjust traverse option <i>Survey=>Adjustments=>Traverse adjustment</i> |
| | Data collector setup option <i>Survey=>Setup</i> |
| | Download Data collector option <i>Survey=>Download raw</i> |
| | Convert raw to field file option <i>Survey=>Convert raw</i> |
| | Reduce field file function option <i>Survey=>Create=>Field file</i> |
| | Edit code option <i>Survey=>Edit=>Coding=>Change</i> |
| | Quick edit code option <i>Survey=>Edit=>Coding=>Quick change</i> |
| | Edit field file option <i>Survey=>Edit=>Field data</i> |
| | Edit field file by selecting string option <i>Survey=>Edit=>Field data by string</i> |
| | Edit height of target option <i>Survey=>Edit=>Target height=>Insert</i> |
| | Start new string option <i>Survey=>Edit=>New string</i> |
| | Auto order string option <i>Survey=>Edit=>Order=>Auto order</i> |
| | Remove (undo) changed order of string option <i>Survey=>Edit=>Order=>Remove order</i> |
| | Lock function against recalculation option <i>Utilities=>Function=>Lock</i> |
| | Print out report file option <i>Report=>Edit</i> |

General strings edit menu

As the standard icons deal only with super strings this toolbar uses a selection of traditional string edit options for all string types


















| | |
|--|---|
| | Strings editing menu Strings |
| | Join ends of strings option Strings=>Strings edit=>Join |
| | Append string to another string option Strings=>Points edit=>Append |
| | Close string option Strings=>Strings edit=>Close |
| | Create a parallel string Strings=>Strings edit=>Parallel |
| | Reverse a string option Strings=>Strings edit=>Reverse |
| | Copy / move a string option Strings=>Strings edit=>Translate |
| | Move a point option Strings=>Points edit=>Move |
| | Insert a point into a string option Strings=>Points edit=>Insert |
| | Split string option Strings=>Strings edit=>Split |
| | Segment string option Strings=>Strings edit=>Segment strings |
| | Convert a string type option Strings=>Convert |
| | Add 3 pt curve by selecting middle point option Strings=>Points edit=>Add 3 pt curve |
| | Delete a point option Strings=>Points edit=>Delete |
| | Delete segment of string option Strings=>Strings edit=>Link clip |
| | Delete string option Strings=>Delete |
| | Change string option Strings=>Strings edit=>Change |

Triangulation menu

The procedures for forming a triangulation along with contours are streamlined in this toolbar



| | |
|---|--|
|  | Triangulation menu Triangles |
|  | Check for crossing breaklines option <i>Tins=>Check breaklines</i> |
|  | Extend point at end of string option <i>Strings=>Points edit=>Extend Ht</i> |
|  | Triangulate a model option <i>Tins=>Create=>Model</i> |
|  | Triangulate a view option <i>Tins=>Create=>View</i> |
|  | Triangulate a model list option <i>Tins=>Create=>Model list</i> |
|  | Delete triangle by angle and length option <i>Tins=>Null=>by angle / length</i> |
|  | Delete triangle by selecting point option <i>Tins=>Null=>by points</i> |
|  | Delete triangle by string option <i>Tins=>Null=>by strings</i> |
|  | Create string around edge tin option <i>Tins=>Boundary</i> |
|  | Edit a tin option <i>Tins=>Edit=>Tin</i> |
|  | Edit point height option <i>Strings=>Points edit=>Height</i> |
|  | Create contours option <i>Tins=>Contour=>Contour</i> |
|  | Create contour labels option <i>Tins=>Contour=>Label</i> |
|  | Create smooth contour option <i>Tins=>Contour=>Smooth</i> |

Subdivision lot design menu

The procedures for creating a subdivision lot design are streamlined in this toolbar




















| | |
|--|---|
| | Subdivision design menu <i>Design=>Estate /Lots</i> |
| | Create lot by minimum area option <i>Design=>Estate/Lots=>Create lots=>Create lots</i> |
| | Create lot by picking sides option <i>Design=>Estate/Lots=>Create lots=>Create lots by picking segments</i> |
| | Create lot by picking centre option <i>Design=>Estate/Lots=>Create lots=>Create lots from boundaries</i> |
| | Create lot from polygon option <i>Design=>Estate/Lots=>Create lots=>Create lots from polygons</i> |
| | Delete redundant points option <i>Design=>Estate/Lots=>Filter lots</i> |
| | Number lots option <i>Design=>Estate/Lots=>Number lots=>Create lot numbers</i> |
| | Change lot numbers option <i>Design=>Estate/Lots=>Number lots=>Change lot numbers</i> |
| | Annotate lots option <i>Design=>Estate/Lots=>Label lots=>Lot labelling</i> |
| | Annotate string option <i>Design=>Estate/Lots=>Label lots=>String b/d labelling</i> |
| | Adjust lot area option <i>Design=>Estate/Lots=>Edit lots=>Adjust area</i> |
| | Delete lot attributes or text option <i>Design=>Estate/Lots=>Delete lot attributes/text</i> |
| | Reverse a bearing option <i>Design=>Estate/Lots=>Lot utilities=>Reverse bearing</i> |
| | Create short line table option <i>Design=>Estate/Lots=>Lot utilities=>Short line/arc table</i> |
| | Move short line table option <i>Drafting=>Multi string translate</i> |
| | Edit short line table option <i>Design=>Estate/Lots=>Lot utilities=>Table utilities</i> |
| | Lot reporting option <i>Design=>Estate/Lots=>Report lots</i> |
| | Short line table reporting option <i>Design=>Estate/Lots=>Lot utilities=>Table utilities</i> |
| | Drape lot points onto tin option <i>Tins=>Drape=>Drape</i> |
| | Colour lots option <i>Design=>Estate/Lots=>Lot utilities=>Colour lots by range file</i> |
| | Remove lot colours option <i>Design=>Estate/Lots=>Lot utilities=>Remove lot colour</i> |

Setout menu

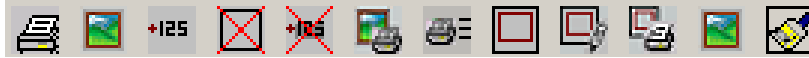
The procedures for setout options are streamlined in this toolbar



- | | |
|---|--|
|  | Setout menu option Survey=>Setout=>Setout |
|  | Bearing distance entry option Survey=>Extras=>Bearing/Distance entry |
|  | Import Dwg file option File I/O=>Data Input=>DWG/DXF |
|  | Import Genio file option File I/O=>Data Input=>Genio |
|  | Convert string option Utilities=>A-G=>Convert=>Convert |
|  | Create plot frame option Design=>X-sections=>X-sections from cuts thru strings |
|  | Create point numbers option Utilities=>Super strings=>Point number |
|  | Label point numbers option File I/O=>Use label map file |
|  | Delete duplicate point numbers option {New macro} |
|  | Annotate setout lines option Drafting=>Bearing/Distance labelling |
|  | Create points upload file option Survey=>Upload=>Create points upload file |
|  | Create tin upload file option Survey=>Upload=>Create triangle upload file |
|  | Create roads upload file option Survey=>Upload=>Create roads upload file |
|  | Set up data collector option Survey=>Setup |
|  | Upload file to data collector option Survey=>Upload=>Upload |
|  | Report point to tin option Report=>QA Reports=>Check points vs tin |
|  | Report surveyed point to design point option Report=>QA Reports=>Check survey points vs design points |

Survey Plotting menu

The procedures for creating plan plots are streamlined in this toolbar



| | |
|--|---|
| | Plotting menu Plot |
| | Create new plan view option View=>Create=>Plan view |
| | Label points option File I/O=>Use label map file |
| | Delete empty models option Models=>Delete=>Delete empty models |
| | Delete duplicate text option {New macro} |
| | Dump the view to image file option View=>Dump |
| | Plot view option Plot=>Plan view |
| | Create plot frame option Plot=>Plot frames=>Create new |
| | Edit plot frame option Plot=>Plot frames=>Editor new |
| | Plot using plot frame option Plot=>Plot frame and PPF editor |
| | Create new plan view option View=>Create=>Plan view |
| | Clean plot preview model option Models=>Clean |

Global menu

A selection of Global options are streamlined in this toolbar



| | |
|--|---|
| | Global menu option Utilities=>A-G |
| | Change data option Utilities=>A-G=>Change |
| | Convert data option Utilities=>A-G=>Convert |
| | Duplicate data option Utilities=>A-G=>Duplicate |
| | Explode data option Utilities=>A-G=>Explode |
| | Scale data option Utilities=>A-G=>Factor |
| | Filter points on strings option Utilities=>A-G=>Filter=>String filter |
| | Head to tail strings option Utilities=>H-Z=>Head to tail |
| | Change data using map file option Utilities=>H-Z=>Map |
| | Rotate data option Utilities=>H-Z=>Rotate |
| | Change text option Utilities=>H-Z=>Text |
| | Move / Copy data option Utilities=>H-Z=>Translate |

Super string edit menu

Options to edit super string properties are streamlined in this toolbar



| | |
|--|--|
| | Super string edit menu option Utilities=>Super strings |
| | Change chainage interval option Utilities=>Super strings=>Chainage interval |
| | Change visibility option Utilities=>Super strings=>Visible |
| | Change tinability option Utilities=>Super strings=>Tinable |
| | Change filling type option Utilities=>Super strings=>Fills |
| | Change symbol option Utilities=>Super strings=>Symbol |
| | Change segment colour option Utilities=>Super strings=>Segment colour |
| | Change height option Utilities=>Super strings=>Height |
| | Change attributes option Utilities=>Super strings=>Attribute |
| | Change point number option Utilities=>Super strings=>Point number |
| | Change radius option Utilities=>Super strings=>Radius |
| | Change text option Utilities=>Super strings=>Text |

Information menu

Options to inquire data are used in this toolbar



| | |
|--|--|
| | Measure menu option Utilities=>Measure |
| | Inquire a string option String=>Inquire |
| | Measure bearing / distance option Utilities=>Measure=>Bearing/Distance |
| | Measure value option Utilities=>Measure=>Value |
| | Measure plan area option Utilities=>Measure=>Plan area |
| | Measure surface area option Utilities=>Measure=>Surface area |
| | Measure crossfall between two strings option Utilities=>Measure=>Xfall by strings |
| | Measure angle between 3 points option Utilities=>Measure=>Angle x 3 pts |
| | Match properties option Strings=>Properties=>Match |