# Appendix B \* Import (CAD Transfer) Mode Keyboard Shortcuts

#### Mode-Changing Keys

Е	Switch to Edit mode (press twice for Entry mode)
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- F Switch to Profile View mode
- H Switch to Highway mode (if available)
- W Switch to Plan View mode
- V Switch to 3D View mode
- P Switch to Print Preview mode

## Drop-Down Menu Keys

- Alt-D Show Display menu
- Alt-E Show Edit menu
- Alt-F Show File menu
- Alt-G Show Guide menu
- G Display last-used Data Entry Guide dialog
- Alt-O Show Options menu
- Alt-V Show View menu
- Alt-W Show Window menu

## PDF Multi-Page Preview Dialog Keys

- TabDisplay image corresponding to number typed in Page Number field
- **Space** Zoom in/out at Arrow **b** pointer location over currently displayed dialog image

## PDF Plan Image Vectorization Keys

**Esc** Cancels *Analyzing PDF Data* phase of raster-to-vector conversion process (if process is proceeding too slowly—typically due to lots of dashed contours)

## Data-Display Keys

Home Default display setting, zooms to extents of data

\* A PDF copy of this Appendix B is included in the Day 2 zip package (see Appendix C). Shortcut key help pages are also available within the AGTEK program, including an abbreviated printable reference sheet (Help > Hot Key Help from program menu or at www.agtek.com/help/gw/keyboard\_shortcuts.htm).

# Appendix B Import (CAD Transfer) Mode Keyboard Shortcuts (Cont.)

## Data-Display Keys (Cont.)

Space	Zoom in/out at Arrow 📐 pointer location
Page Up	Increase zoom at Arrow N pointer location
Page Dn	Decrease zoom at Arrow 📐 pointer location
Alt-B	Display CAD/PDF Layer Selection dialog (press <b>Ctrl</b> or <b>Shift</b> and double <b>Left</b> click a layer name to display only that layer, keep Arrow $\mathbf{k}$ pointer over dialog and use $\uparrow/\downarrow$ keys to scroll display one layer at a time)
Alt-H	Hide currently selected data (press Alt-H again to redisplay the hidden data)
Alt-S	Show all currently hidden data
т	Toggle background image (PDF/TIF/JPG/GIF/PNG) off/on
R	Rotate background image (PDF/TIF/JPG/GIF/PNG) 45 degrees right
L	Rotate background image (PDF/TIF/JPG/GIF/PNG) 45 degrees left
М	Toggle full brightness (white/gray) on/off for background image
F2	Toggle data point "Plus Marks" on/off
↑	Pan up
$\downarrow$	Pan down
$\rightarrow$	Pan right
←	Pan left
Data-Select	ion/Transfer Keys
Shift	Press Shift for cumulative select (deselect) of individual CAD layer objects
Ctrl	Press Ctrl for cumulative select (deselect) of CAD layers
Esc	Deselect any selected data

- Delete Delete currently selected data
  - **S** Send currently selected data to destination Surface/Layer
- Z <u>AGTEK 3D only</u>: Toggle zoom to selected point on/off (use **Options > Sticky Zoom** menu in AGTEK 4D)
- Ctrl-Z Undo last function
- Ctrl-Y Redo last undo

### Mode-Changing Keys

- A Switch to Import (CAD Transfer) mode
- **E** Switch to Entry mode
- F Switch to Profile View mode
- H Switch to Highway mode (if available)
- W Switch to Plan View mode
- V Switch to 3D View mode
- P Switch to Print Preview mode

#### **Drop-Down Menu Keys**

- Alt-E Show Edit menu
- Alt-G Show Guide menu
- G Display last-used Data Entry Guide dialog
- Alt-W Show Window menu

#### **Data-Selection/Editing Keys**

- Shift Press Shift for cumulative select (deselect) of individual objects (same function as Ctrl). Other Uses: (1) see Ctrl-L for cumulative Label Select using Shift; (2) to renumber *Benchmarks* for AGTEK 3D's paper plan scaling sequence, Left click desired *Benchmark 1*, press Shift and Left click desired *Benchmark 2*, press Shift and Left click desired *Benchmark 3*, Right click then click OK in *Reorder Benchmarks* dialog.
- Ctrl Press Ctrl for cumulative select (deselect) of individual objects (same function as Shift). Special case: see Ctrl-L for cumulative Label Select.
- **Delete** Options: (1) Delete selected object(s); (2) Delete selected segment(s) of object
- **Esc** Options: (1) Deselect all selected data; (2) <u>AGTEK 4D only:</u> While Template is being applied, press once to suppress line plotting for faster application (useful with long reference alignments) or press twice to cancel Template application
- **S** Toggle "Snap" function on/off (but no practical effect in Edit mode)
- Alt <u>AGTEK 4D only</u>: When *Stake List Editor* is open, press **Alt** while selecting base point for offset stake guide lines, release **Alt** then select desired stake point for reoriented offset stake guide lines
- Alt-A Select all data on active surface/layer
- Alt-H Hide currently selected data (press Alt-H again to redisplay last hide)

### Data-Selection/Editing Keys (Cont.)

Alt-S	Show all currently hidden data	(except on layers	Unchecked with Alt-B dialog)

- Alt-X Region selection tree dialog (Perimeter/Area/Region layers only)
- Ctrl-A Convert selected data to/from annotation
- Ctrl-C Copy data selected on active surface/layer
- Ctrl-F Fillet converts one selected angle point to user-defined radius or arc-joins gap between two selected lines
- Ctrl-V Paste copied/cut data to active surface/layer
- **Ctrl-J** Bridge gap distance (Join) selected data lines (select **Options > Bridge Gap Distance** from menu to set maximum horizontal and vertical gap distances). If multiple lines are selected and Joined, they will remain selected for ease of hiding (Alt-H).
- **Ctrl-L** Run Label Select utility to select all data matching a single selected object's *Line Label*. Options: (1) after initial label selection, press **Shift** or **Ctrl** while picking next object, then press **Ctrl-L** for cumulative label selections (repeat if necessary); (2) if no object selected, pop-up Label Selection dialog allows label selection by matching *Point Label* or *Line Label*, including support of "\*" (multi-character) and "?" (single-character) wildcards for partial matching (AGTEK 4D supports a "*blank*" search to select unlabeled data).
- Ctrl-M Move start point of closed object to selected data point
- Ctrl-O Run Offset Line Editor for selected data line(s)
- Ctrl-P <u>AGTEK 3D only</u>: Run Auto Pad utility (*use Ctrl-W in AGTEK 4D*); <u>AGTEK 4D only</u>: Ctrl-P runs Apply Template utility with selected Data Line(s)
- Ctrl-S Reverses the point entry order of any selected lines ("Swap Ends")
- **Ctrl-T** Trim visible (not hidden) lines that intersect selected line(s)/perimeter. Options: (1) if a single closed line is selected, available options are "Trim Only", "Remove Lines Inside" (trim and delete all lines inside selected line), and "Remove Lines Outside" (trim and delete all lines outside selected line); (2) the Remove Lines Inside/Outside variant under Option 1 will apply to any hidden lines having "Break Line" as the *Line Label*; (3) if pairs of lines *that were created with the same Offset Line* (or *Apply Template*) *utility reference* are selected, the option to "Trim Between Lines" (trim and delete all lines between selected pairs of Offset/Template lines) is available.
- Ctrl-W AGTEK 4D only: Run Auto Pad utility (use Ctrl-P in AGTEK 3D)
- Ctrl-X Break line at selected data point
- Ctrl-Y Redo last undo
- Ctrl-Z Undo last command (select Options > Max Undo Levels from menu to set number of undo levels)
- **F5** Determines the interpolated elevation of a data line at the Arrow pointer tip, inserts a new data point on the data line at the determined elevation, and breaks the data line at the new data point (can also be used to insert/break other layer objects)—use **F6** if break is not desired at new point

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#### Data-Selection/Editing Keys (Cont.)

- **F6** Similar function as **F5**, but the data line *is not* broken at the new data point (can also be used to add additional points on other layer objects)
- **F8** Options: (1) Auto-increment elevation snap for 2D-3D CAD contour conversion; (2) <u>AGTEK 4D only:</u> When *Stake List Editor* is open, adds specified point to *Stake List*
- F7 Move selected point to Arrow pointer's tip. Options: (1) F7 can be used to extend or shorten a selected line to Arrow pointer's tip if first two (or last two) points of selected line are drag-selected in *Elevation Scroll* (resulting extended/shortened end-point elevation will be recalculated using original slope between the two drag-selected points); (2) "drag" a selected point to new location by pressing and holding F7 and then moving mouse (release F7 to end).
- F9 Elevation snap transfers elevation from data point nearest the Arrow R pointer to currently selected data point
- **0 9** (If Arrow pointer is in the *Elevation Scroll*) Numeric keys (or "+", "-", ".") modify a selected data line point elevation via the *Point Editor*.
- A Z (If Arrow N pointer is in the *Elevation Scroll*) Alphabetic keys display the *Point/Line Label Editor*.

#### Data-Display Keys (Plan View Overlay)

- **O** Toggle plan view overlay off/on
- **Insert** <u>AGTEK 4D only</u>: Re-load aligned image file for Arrow pointer location (if image does not re-load, verify that corresponding image border is not hidden)
  - **T** Toggle 3D Terrain view on/off (also cycles between display of 3D Terrain view and PDF or other background image)
  - J <u>AGTEK 4D only</u>: Toggle PDF or other background image off/on
  - **M** Toggle full brightness (white/gray) on/off with monochrome background image; toggle color on/off with color background image
- F2 AGTEK 4D only: Toggle data point "Plus Marks" on/off
- **C** Toggle compass display and location (on, left, center, right, off)
- Display Length and Area measures for selected object(s); <u>AGTEK 4D only</u>: Re-load aligned image file for Arrow pointer location (same function as **Insert**, if no objects are selected)
- Ctrl-I Display Length and Area measures for selected object(s); <u>AGTEK 4D only</u>: Re-load aligned image file for Arrow **k** pointer location (same function as **Insert**, if no objects are selected)
  - L (with 3D Terrain View off) centers plan-view screen on currently-selected point (same function as **R**)

## Data-Display Keys (Plan View Overlay) (Cont.)

R	(with 3D Terrain View off) centers plan-view screen on currently-selected point (same function as L)
Z	AGTEK 3D only: Toggle zoom to selected point on/off (use Options > Sticky Zoom menu in AGTEK 4D)
Alt-B	Display Layer Selection dialog
Alt-F	Toggle area/region hatch patterns on/off
Alt-H	Hide currently selected data
Alt-P	Send current screen view to Print Preview Page
Alt-S	Show all hidden data (except on layers Unchecked with Alt-B dialog)
Alt-V	Toggle background layers off/on
Home	Zooms to extents of plan view overlay data
Space	Zoom on/off at Arrow k pointer location
Page Up	Increase zoom at Arrow R pointer location
Page Dn	Decrease zoom at Arrow k pointer location
↑	Pan up
$\downarrow$	Pan down
$\rightarrow$	Pan right

← Pan left

## Data-Display Keys (3D Terrain View)

- **T** Toggle 3D view on/off (also cycles between display of 3D Terrain view and any open PDF or other background image)
- **C** Toggle compass display and location (on, left, center, right, off)
- **B** Toggle 3D view between Land View (close perspective) and Sky View (distant perspective)
- L Rotate 3D view 15 degrees left
- **R** Rotate 3D view 15 degrees right
- U Tilt 3D view up
- D Tilt 3D view down

# Data-Display Keys (3D Terrain View) (Cont.)

+/-

Alt-I	Zoom 3D view in
Alt-O	Zoom 3D view out
Alt-R	Rotate viewer's perspective to right (3D view rotates to left)
Alt-L	Rotate viewer's perspective to left (3D view rotates to right)
Alt-U	Move viewer's perspective up (3D view moves down)
Alt-D	Move viewer's perspective down (3D view moves up)
Alt-P	Send current screen view to Print Preview Page
F1	Viewer's perspective from inside vehicle
F2	Viewer's perspective from 50' behind vehicle
F3	Viewer's perspective from 50' right of vehicle
F4	Viewer's perspective from 50' left of vehicle
F11	Flip viewer's perspective 180 degrees
Home	Re-centers 3D view (if plan view overlay is on)

Increase/decrease 3D view's vertical exaggeration

# Appendix B Entry Mode Keyboard Shortcuts

# Mode-Changing Keys (with Arrow Review Pointer)

- E Switch to Edit mode
- F Switch to Profile View mode
- H Switch to Highway mode (if available)
- W Switch to Plan View mode
- V Switch to 3D View mode
- P Switch to Print Preview mode

# Drop-Down Menu Keys (with Arrow 📐 Pointer)

- Alt-E Show Edit menu
- Alt-G Show Guide menu
- G Display last-used Data Entry Guide dialog
- Alt-H Show Help menu
- Alt-W Show Window menu

## Data-Display Keys (Plan View Overlay)

- Insert <u>AGTEK 4D only</u>: Re-load aligned image file for Arrow **N** or Crosshair **+** pointer location (if image does not re-load, verify that corresponding image border is not hidden)
  - I <u>AGTEK 4D only</u>: Re-load aligned image file for pointer location (same function as **Insert**)
- Ctrl-I <u>AGTEK 4D only</u>: Re-load aligned image file for pointer location (same function as **Insert**)
  - **T** Toggle 3D Terrain view on/off (also cycles between display of 3D Terrain view and PDF or other background image)
  - J <u>AGTEK 4D only</u>: Toggle PDF or other background image off/on
  - **M** Toggle full brightness (white/gray) on/off with monochrome background image; toggle color on/off with color background image
  - **C** Toggle compass display and location (on, left, center, right, off)
- Alt-B Display Layer Selection dialog

### Data-Display Keys (Plan View Overlay) (Cont.)

- Alt-F Toggle area/region hatch patterns on/off with Crosshair + pointer (AGTEK 4D only) or Arrow pointer (AGTEK 3D and AGTEK 4D)
- Alt-P Send current screen view to Print Preview Page
- Alt-S Show all hidden data (except on layers Unchecked with Alt-B dialog)
- Alt-V Toggle background layers off/on (with Crosshair + pointer or Arrow > pointer)
- F2 AGTEK 4D only: Toggle data point "Plus Marks" on/off
- Home Zooms to extents of plan view overlay data
- **Space** Zoom on/off at Arrow **b** pointer location
- Page Up Increase zoom at Arrow N pointer location
- Page Dn Decrease zoom at Arrow N pointer location
- ↑↓ Pan up / Pan down
- $\rightarrow \leftarrow$  Pan right / Pan left

# Data-Display Keys (with Arrow N Pointer only, 3D Terrain View)

- **T** Toggle 3D view on/off (also cycles between display of 3D Terrain view and any open PDF or other background image)
- **C** Toggle compass display and location (on, left, center, right, off)
- **B** Toggle 3D view between Land View (close perspective) and Sky View (distant perspective)
- U Tilt 3D view up
- D Tilt 3D view down
- Alt-I Zoom 3D view in
- Alt-O Zoom 3D view out
- Alt-R Rotate viewer's perspective to right (3D view rotates to left)
- Alt-L Rotate viewer's perspective to left (3D view rotates to right)
- Alt-U Move viewer's perspective up (3D view moves down)
- Alt-D Move viewer's perspective down (3D view moves up)

## Data-Display Keys (with Arrow Pointer only, 3D Terrain View) (Cont.)

- Alt-P Send current screen view to Print Preview Page
- F1 Viewer's perspective from inside vehicle (reset perspective with **B** key)
- F3 Viewer's perspective from 50' right of vehicle (reset perspective with **B** key)
- F4 Viewer's perspective from 50' left of vehicle (reset perspective with **B** key)
- **F11** Flip viewer's perspective 180 degrees
- + Increase 3D view's vertical exaggeration (- to decrease exaggeration does not function in Entry mode)

### **Data-Entry Keys**

- L Displays Edit Point / Line Labels dialog to label next entry
- **R** Fillet (radius) entry tool, type R and a radius value (with Crosshair + pointer)
- **S** Toggle "Snap" function on/off (if Tablet Entry disabled)
- Ctrl-Q Cycles Status Bar display between Distance/Slope (default), Distance/OG Elevation, Discreet Distance/Slope, and Discreet Distance/Angle (in <u>AGTEK 4D</u>, same as selecting **Options > Modeling Options > [Option]** from menu).
  - Q (With Arrow or Crosshair + pointer) Quit *Discreet Distance/Slope* mode (see F12) and reset *Status Bar* display to *Distance/Slope* (in <u>AGTEK 4D</u>, same as selecting **Options > Modeling Options > Distance/Slope** from menu).
  - X No current function (replaced by **Q** above)
- CtrI-V Paste copied/cut data to active surface/layer (with Arrow N pointer)
- Ctrl-Y Redo last undo (with Arrow **h** pointer)
- Ctrl-Z Undo last command, select Options > Max Undo Levels from menu to set number of undo levels (with Arrow row pointer)
- **Backspace** During entry of an object on any layer: *press once* to delete object's last-entered point, press again to delete next point (or *press and hold* to sequentially "stream" delete multiple points)
  - **F6** Snaps a data point to a data line segment by determining the segment's interpolated elevation at the Crosshair + pointer location (using F6 snap in <u>AGTEK 4D</u> inserts a corresponding data point on the referenced line segment). F6 can also be used in <u>AGTEK 4D</u> to match invert elevations on Pipe Lines layer.

### **Data-Entry Keys (Cont.)**

- **F9** Elevation snap is used to "read and type" the elevation from a CAD text label (or data line point) and then attach the elevation to a new point on a data line (with Crosshair + pointer)
- **F10** <u>AGTEK 4D only</u>: Calculates and enters pipe (lateral) invert elevation on Pipe Lines layer as vertical offset from interpolated active surface elevation at Crosshair + pointer (type negative offset value "-x" then press **F10**)
- F12 Establishes coordinate reference system relative to the line segment nearest the Arrow ▲ or Crosshair → pointer and changes *Status Bar* display to *Discreet Distance/Angle* (see related shortcut keys **Ctrl-Q** and **Q** above).
- Shift Press and hold for contour streaming using Left mouse button when "heads-up" digitizing from PDF or other background image
- A Z (If Arrow R or Crosshair + pointer is in the *Elevation Scroll*) Alphabetic keys display the *Point/Line Label Editor*.

# Appendix B Profile View Mode Keyboard Shortcuts

#### Mode-Changing Keys

- A Switch to Import (CAD Transfer) mode
- **E** Switch to Edit mode (press twice for Entry mode)
- H Switch to Highway mode (if available)
- W Switch to Plan View mode
- V Switch to 3D View mode
- P Switch to Print Preview mode

### Drop-Down Menu Keys

Alt-D	Show Display menu
Alt-E	Show Edit menu
Alt-F	Show File menu
Alt-G	Show Guide menu
G	Display last-used Data Entry Guide dialog
Alt-H	Show Help menu
Alt-O	Show Options menu
A 14   I	Show Utility monu

- Alt-U Show Utility menu
- Alt-V AGTEK 3D only: Show View menu
- Alt-W Show Window menu

# Profile-Entry Keys (with Crosshair + Pointer Active)

- **F6** Snaps to a data line when there is no data point to snap to
- **F8** Snaps to the data point nearest to the Crosshair + pointer; same function as Left click Mouse Snap
- Backspace During entry of profile alignment: *press once* to delete profile's last-entered point, press again to delete next point (or *press and hold* to sequentially "stream" delete multiple profile points)

#### **Data-Editing Keys**

Delete Delete selected profile line

# Appendix B Profile View Mode Keyboard Shortcuts (Cont.)

## Data-Editing Keys (Cont.)

- Ctrl-Y Redo last undo
- Ctrl-Z Undo last function

### Data-Display

- Insert <u>AGTEK 4D only</u>: Re-load aligned image file for Arrow **k** or Crosshair **+** pointer plan-view location (if image does not re-load, verify that corresponding image border is not hidden)
  - T Toggle plan view cut/fill color shading on/off and/or toggle PDF or other background image on/off
  - J <u>AGTEK 4D only</u>: Toggle PDF or other background image off/on
  - **M** Toggle full brightness (white/gray) on/off with monochrome background image; toggle color on/off with color background image
- F2 AGTEK 4D only: Toggle data point "Plus Marks" on/off
- **C** Toggle compass display and location (on, left, center, right, off)
- Z Toggle "Sticky Zoom" (to selected point) on/off
- Alt-B Display Layer Selection dialog
- Alt-P Send selected profile to Print Preview Page
- Home Zooms to extents of plan view overlay data
- **Space** Zoom on/off at Arrow **b** pointer location
- Page Up Increase zoom at Arrow **k** pointer location
- Page Dn Decrease zoom at Arrow N pointer location
- ↑ Pan up
- ↓ Pan down
- → Pan right
- ← Pan left

# Appendix B Plan View Mode Keyboard Shortcuts

### Mode-Changing Keys

- A Switch to Import (CAD Transfer) mode
- **E** Switch to Edit mode (press twice for Entry mode)
- F Switch to Profile View mode
- H Switch to Highway mode (if available)
- P Switch to Print Preview mode
- V Switch to 3D View mode

## Drop-Down Menu Keys

- Alt-D Show Display menu
- Alt-E Show Edit menu
- Alt-G Show Guide menu
- G Display last-used Data Entry Guide dialog
- Alt-H Show Help menu
- Alt-O Show Options menu
- Alt-U Show Utility menu
- Alt-V AGTEK 3D only: Show View menu
- Alt-W Show Window menu

## Volume Calculation Keys

- Ctrl-A AGTEK 3D only: Create bounding area for Report Region volume calculations
- CtrI-V AGTEK 3D only: Run Report Region area volume calculations
- Alt-A AGTEK 4D only: Create bounding area for Report Region volume calculations
- Alt-V AGTEK 4D only: Run Report Region area volume calculations
- Ctrl-B Run Balance Region area volume calculations
- CtrI-S Run Balance Region Horizontal Slice (vertical interval) volume calculations
- Esc Cancel volume calculations

# Appendix B Plan View Mode Keyboard Shortcuts (Cont.)

#### Volume Calculation Keys (Cont.)

- **Space** Pause/resume volume calculations
  - I On pause (see **Space**), displays incremental cross-section "walk-through"

## Data-Entry Keys (with Crosshair + Pointer Active)

- F6 Snaps to a data line when there is no data point to snap to
- **F8** Snaps to the data point nearest to the Crosshair + pointer (can also be used for Line snap and Area snap); same function as **Left** click Mouse Snap

### **Data-Editing Keys**

- Ctrl-Y Redo last undo
- Ctrl-Z Undo last function

#### Data-Display Keys

- **Insert** <u>AGTEK 4D only</u>: Re-load aligned image file for pointer location (if image does not re-load, verify that corresponding image border is not hidden)
  - T Toggle cut/fill color shading (and values) off/on and/or toggle PDF or other background image on/off
  - J <u>AGTEK 4D only</u>: Toggle PDF or other background image off/on
  - **M** Toggle full brightness (white/gray) on/off with monochrome background image; toggle color on/off with color background image
  - **O** Toggle plan view layers overlay off/on
- F2 <u>AGTEK 4D only</u>: Toggle data point "Plus Marks" on/off
- **C** Toggle compass display and location (on, left, center, right, off)
- R Update cut/fill colors
- L Update cut/fill colors
- U Toggle plan view layers overlay off
- Alt-B Display Layer Selection dialog
- Alt-F Toggle area/region hatch patterns on/off
- Alt-P Send current screen view to Print Preview Page

# Appendix B Plan View Mode Keyboard Shortcuts (Cont.)

## Data-Display Keys (Cont.)

Alt-K	Gradework 4D only: Make cut/fill colo	<sup>•</sup> map an image for b	background display in	other modes

- Home Zooms to extents of plan view overlay data
- **Space** Zoom on/off at Arrow N pointer location
- Page Up Increase zoom at Arrow N pointer location
- Page Dn Decrease zoom at Arrow N pointer location
- 1 Pan up
- ↓ Pan down
- $\rightarrow$  Pan right
- ← Pan left

# Appendix B 3D View Mode Keyboard Shortcuts

### Mode-Changing Keys

- A Switch to Import (CAD Transfer) mode
- **E** Switch to Edit mode (press twice for Entry mode)
- F Switch to Profile View mode
- H Switch to Highway mode (if available)
- W Switch to Plan View mode
- P Switch to Print Preview mode

## **Drop-Down Menu Keys**

Alt-E	Show Edit menu
Alt-G	Show Guide menu
G	Display last-used Data Entry Guide dialog
Alt-V	AGTEK 3D only: Show View menu
Alt-W	Show Window menu

#### Volume Calculation Keys

- Ctrl-A AGTEK 3D only: Create bounding area for Report Region volume calculations
- CtrI-V AGTEK 3D only: Run Report Region area volume calculations
- Alt-A <u>AGTEK 4D only</u>: Create bounding area for Report Region volume calculations
- Alt-V AGTEK 4D only: Run Report Region area volume calculations
- Esc Cancel volume calculations
- Space Pause/resume volume calculations
  - I On pause (see **Space**), displays incremental cross-section "walk-through"

## Data-Display Keys (Plan View Overlay)

- **O** Toggle plan view overlay off/on
- C Toggle compass display and location (on, left, center, right, off)
- Alt-B Display Layer Selection dialog

### Data-Display Keys (Plan View Overlay) (Cont.)

- Alt-F Toggle area/region hatch patterns on/off
- Alt-P Send current screen view to Print Preview Page
- Home Zooms to extents of plan view overlay data
- **Space** Zoom on/off at Arrow **b** pointer location
- Page Up Increase zoom at Arrow N pointer location
- **Page Dn** Decrease zoom at Arrow **k** pointer location
- ↑ Pan up
- ↓ Pan down
- → Pan right
- ← Pan left

#### Data-Display Keys (3D Terrain View)

- **T** Toggle 3D view off/on (also cycles between display of 3D Terrain view and any open PDF or other background image)
- Z <u>Gradework 4D only</u>: If 3D Terrain view is displayed (press **T** if not displayed) and underground pipe lines are modeled in the job file using Gradework's integrated Materials-Underground module, shows/hides pipe lines on 3D Terrain view
- **C** Toggle compass display and location (on, left, center, right, off)
- **B** Toggle 3D view between Land View (close perspective) and Sky View (distant perspective)
- L Rotate 3D view 15 degrees left
- R Rotate 3D view 15 degrees right
- U Tilt 3D view up
- D Tilt 3D view down
- Alt-I Zoom 3D view in
- Alt-O Zoom 3D view out
- Alt-R Rotate viewer's perspective to right (3D view rotates to left)
- Alt-L Rotate viewer's perspective to left (3D view rotates to right)

## Data-Display Keys (3D Terrain View) (Cont.)

Alt-U Move viewer's perspective up (3D view moves dow	vn	I)
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- Alt-D Move viewer's perspective down (3D view moves up)
- Alt-P Send current screen view to Print Preview Page
- **F1** Viewer's perspective from inside vehicle
- F2 Viewer's perspective from 50' behind vehicle
- F3 Viewer's perspective from 50' right of vehicle
- F4 Viewer's perspective from 50' left of vehicle
- **F11** Flip viewer's perspective 180 degrees
- Home Re-centers 3D view (if plan view overlay is on)
- +/- Increase/decrease 3D view's vertical exaggeration

#### Data-Selection Keys (3D Terrain View)

Ctrl Press Ctrl and Left click 3D view to select nearest corresponding point on Data Lines overlay

#### Data-Manipulation Keys (Plan View Overlay)

Ctrl-C Copy Reference Surface Data Lines

# Driving-Simulation Entry Keys (with Crosshair + Pointer Active)

Backspace During entry of Driving Simulation path: *press once* to delete last-entered point, press again to delete next point (or *press and hold* to sequentially "stream" delete multiple points)

# Appendix B Volume Report Mode Keyboard Shortcuts

### Mode-Changing Keys

- A Switch to Import (CAD Transfer) mode
   E Switch to Edit mode (press twice for Entry mode)
   F Switch to Profile View mode
   H Switch to Highway mode (if available)
   W Switch to Plan View mode
   V Switch to 3D View mode
   P Switch to Print Preview mode
  - Alt-E Show Edit menu
  - Alt-F Show File menu
  - Alt-G Show Guide menu
  - G Display last-used Data Entry Guide dialog
  - Alt-H Show Help menu
  - Alt-O Show Options menu
  - Alt-W Show Window menu

# Appendix B Haul Report Mode Keyboard Shortcuts

### Mode-Changing Keys

- A Switch to Import (CAD Transfer) mode
   E Switch to Edit mode (press twice for Entry mode)
   F Switch to Profile View mode
   H Switch to Highway mode (if available)
   W Switch to Plan View mode
   V Switch to 3D View mode
   P Switch to Print Preview mode
  - Alt-E Display Edit menu
  - Alt-F Display File menu
  - Alt-G Show Guide menu
  - G Display last-used Data Entry Guide dialog
  - Alt-H Display Help menu
  - Alt-O Display Options menu
  - Alt-W Display Window menu

# Appendix B Print Preview Mode Keyboard Shortcuts

### **Mode-Changing Keys**

- A Switch to Import (CAD Transfer) mode
- **E** Switch to Edit mode (press twice for Entry mode)
- **F** Switch to Profile View mode
- H Switch to Highway mode (if available)
- W Switch to Plan View mode
- V Switch to 3D View mode

### **Drop-Down Menu Keys**

Alt-E	Display Edit menu
Alt-F	Display File menu
Alt-G	Show Guide menu
G	Display last-used Data Entry Guide dialog
Alt-H	Display Help menu
Alt-O	Display Options menu
Alt-W	Display Window menu

#### Miscellaneous Keys

- T Text entry dialog insertion (at Arrow N pointer location)
- **Del** Delete selected print object
- Shift Select one print object under another print object (hold Shift key down during selection)
- Tab
   Sequentially select individual print objects (select any object then press Tab for next object)
- 1 Move selected print object up
- ↓ Move selected print object down
- → Move selected print object right
- ← Move selected print object left

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