

Appendix F

Catalog of Handbook Web Resources

The following list catalogs the supplemental web resources mentioned in each chapter of this *Day 2 Seminar Handbook* (including the corresponding handbook page references).

[Tip: Save some typing and use the clickable links in the downloadable digital copy of this Appendix (see “WebLinksD2.pdf” in Appendix C).]

Most of these resources are training videos produced by AGTEK’s technical support staff and viewing the videos requires login with a valid AGTEK Support ID and Password.

[Tip: The video links below were all working at the time this catalog was composed (September 2018) but AGTEK has been changing some of their video page-link extensions (.asp vs. .html). If clicking a video link displays a “404.0 – Not Found” error, try changing the video link extension (.asp vs. .html) to access the video.]

Program and Vector Data Overview

www.agtek.com/hardware.html

Web Page: Hardware guidelines for AGTEK software (pages 21).

www.takeofftips.blogspot.com/2010/07/photoshop-matchline-tutorial-for.html

PDF: Combine PDF sheets on match line in Adobe® Photoshop® (page 25).

www.agtek.com/trainingvideos/FallonSportsParkP-3.asp

AGTEK Video: Organize Google Earth PDF folders (page 26).

www.agtek.com/trainingvideos/Earthwork4DAlignPDF.asp

AGTEK Video: Import and align multiple PDF plan sheets using overview PDF plan sheet (page 26).

www.agtek.com/trainingvideos/Earthwork4DAlignPDFMatchline.asp

AGTEK Video: Import and align multiple PDF plan sheets using match lines (page 26).

www.agtek.com/trainingvideos/Earthwork4DSpeedTakeoffp2.asp

AGTEK Video: Import and align two overlapping PDF plan sheets using street centerline points (page 26).

www.agtek.com/trainingvideos/FallonSportsParkP-1.asp

AGTEK Video: Import, scale and geo-reference overview PDF plan sheet (page 26).

www.agtek.com/trainingvideos/FallonSportsParkP-2.asp

AGTEK Video: Import and align multiple detail PDF plan sheets (page 26).

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Program and Vector Data Overview (Cont.)

www.earthworksoftwareservices.com/resourcesw.htm#free_cad_utilities

Web Page: Resource page with links to free and low-cost CAD programs, file viewers, and file-conversion utilities (page 37).

Modeling with Vector Data Step-by-Step

www.earthworksoftwareservices.com/resourcefiles.htm

Web Page: Download seminar sample grading plan and data files (page 40).

www.agtek.com/trainingvideos/Earthwork4DNewFeatures116.asp

AGTEK Video: Includes overview of new PDF shortcuts in AGTEK 4D when working with multiple PDF sheets (pages 43, 51).

www.agtek.com/trainingvideos/Earthwork4Dc1lesson12.asp

AGTEK Video: Alternate alignment sequence for multiple PDF plan sheets (page 45).

www.agtek.com/trainingvideos/Earthwork4DFortOrdP1.asp

AGTEK Video: Import and align two overlapping PDF plan sheets (page 58).

www.agtek.com/trainingvideos/Earthwork4DFortOrdP2.asp

AGTEK Video: Trim and remove duplicate lines in overlap area of two PDF plan sheets (page 58).

www.agtek.com/trainingvideos/Earthwork4DTIN.asp

AGTEK Video: Import and transfer a CAD TIN layer (page 73).

www.agtek.com/trainingvideos/Highway4DXMLImport.asp

AGTEK Video: Additional LandXML import techniques (page 74).

www.agtek.com/trainingvideos/Highway4DTINMerge.asp

AGTEK Video: Additional LandXML import techniques (page 74).

www.agtek.com/trainingvideos/Earthwork4DAlignPDFCADData.asp

AGTEK Video: PDF-to-CAD alignment (page 80).

www.agtek.com/trainingvideos/ew4drefresherf8.asp

AGTEK Video: Includes a good overview of F8 snap functions in Edit and Entry modes (page 107).

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Additional CAD Data Manipulation Examples

www.agtek.com/trainingvideos/Highway3DCogoV.asp

AGTEK Video: Use Highway 3D vertical COGO for street vertical curve (page 133).

www.agtek.com/trainingvideos/Highway4DVerticalCogo.asp

AGTEK Video: Use Highway 4D vertical COGO for street vertical curve (page 133).

www.agtek.com/trainingvideos/Earthwork4DFortOrdP4.asp

AGTEK Video: Use Apply Template utility to create street model (page 133).

www.agtek.com/trainingvideos/Earthwork3DOffsetLines.asp

AGTEK Video: All street offsets made from street centerline (page 135).

Modeling with ASCII Text Survey Data

www.agtek.com/trainingvideos/SmartgradegrademodeR1.asp

AGTEK Video: Export AGTEK AGT PNEZ text file from SmartGrade RTK (page 156).

www.agtek.com/trainingvideos/Earthwork4DApplySurvey.asp

AGTEK Video: Export AGTEK AGT PNEZ text file from SmartGrade RTK, import to AGTEK 4D and process data (page 156).

www.agtek.com/trainingvideos/gradework4dfiletypes.asp

AGTEK Video: Drone photogrammetry data overview (page 157).

www.agtek.com/trainingvideos/gradework4dprogresstopo.asp

AGTEK Video: Import and process first drone progress topo data (page 157).

www.agtek.com/trainingvideos/gradework4dmultiprogtopo.asp

AGTEK Video: Import and process second drone progress topo data (page 157).

www.agtek.com/trainingvideos/gradework4dnewfeatures103.asp

AGTEK Video: (at 2 minute mark) new Gradework 4D drone topo image alignment options (page 157).

www.agtek.com/assets/dronedatarequest.pdf

PDF: Drone data request letter for Earthwork 4D (page 157).

www.agtek.com/assets/dronedatarequestgw.pdf

PDF: Drone data request letter for Gradework 4D (page 157).

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Modeling with ASCII Text Survey Data (Cont.)

www.agtek.com/trainingvideos/TrackworkTracks.asp

AGTEK Video: Trackwork training video (page 157).

www.agtek.com/trainingvideos/Earthwork4DContour.asp

AGTEK Video: Includes a demonstration of differing results with the point-connection options (page 159).

www.agtek.com/trainingvideos/Smartgradestockpiler1.asp

AGTEK Video: Demonstrates the quick pit/pile survey volume option in SmartGrade RTK (page 165).

www.agtek.com/trainingvideos/Earthwork4DApplySurvey2.asp

AGTEK Video: Demonstrates many of the techniques used in the *Quantify and Document Topo Discrepancy* seminar exercise (page 183).

www.agtek.com/trainingvideos/Earthwork3DSurvey.asp

AGTEK Video: Demonstrates the “shortcut” Apply Survey steps (page 183).

www.earthworksoftwareservices.com/resourcessa.htm

Web Page: Links for free Google Earth Pro and usage instructions (page 187).

www.agtek.com/trainingvideos/Earthwork3DSurvey.asp

AGTEK Video: Covers locating and saving a Google Earth site image and importing/aligning saved image in the AGTEK job file (page 187).

Appendix A – How to Get Help, Training, and Program Updates

www.linkedin.com/groups/2015287/

Web Page: LinkedIn AGTEK Users Group (page 211).

www.agtek.com/traininghome.html

Web Page: Main AGTEK 4D video library page (pages 211, 213).

www.agtek.com/support.html

Web Page: AGTEK customer support home page (pages 211, 214).

www.EarthworkSoftwareServices.com/resourceed.htm

Web Page: Extensive list of earthwork construction learning resource links (page 213).

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Appendix A – How to Get Help, Training, and Program Updates (Cont.)

www.agtek.com/webtraining.html

Web Page: AGTEK live web training info/signup page (page 213).

www.agtek.com/training.html

Web Page: AGTEK seasonal hands-on classroom training info/signup form (page 213).

www.agtek.com/learning.html

Web Page: Links to a series of good video-augmented basic AGTEK 4D training exercises, including corresponding data files (page 213).

www.agtek.com/traininghome.html

Web Page: Main AGTEK 4D video library page (pages 211, 213).

<https://agtek.s3.amazonaws.com/Agtek/MGS0FdVAqeyA>

PDF: Links to a series of good video-augmented basic AGTEK 3D training exercises, including corresponding data files (page 213).

www.agtek.com/trainingew.html

Web Page: Main Earthwork 3D video library page (page 213).

www.agtek.com/trainingsm.html

Web Page: Main SiteModel 3D video library page (page 213).

www.agtek.com/traininggm.html

Web Page: Main GradeModel 3D video library page (page 213).

www.agtek.com/traininghw.html

Web Page: Main Highway 3D video library page (page 213).

www.agtek.com/trainingmk.html

Web Page: Main Materials 3D/Underground 3D video library page (page 213).

www.agtek.com/newslettersignup.asp

Web Page: Signup form for AGTEK's periodic email newsletter (page 214).

www.EarthworkSoftwareServices.com/resourcesw.htm

Web Page: GTCO digitizer resource links (page 216).

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Appendix C – Download and Use Seminar Training Files

www.earthworksoftwareservices.com/resourcefiles.htm

Web Page: Download seminar sample grading plan and data files (page 239).

Appendix D – Exporting AGTEK Data

www.agtek.com/trainingvideos/Earthwork4DGPSExport.asp

AGTEK Video: Overview of various export methods for GPS machine control (page 245).

www.agtek.com/trainingvideos/Earthwork4DNewFeatures1-2.asp

AGTEK Video: 4D's new export menu, dialogs and data visibility settings (page 245).

www.agtek.com/trainingvideos/GradeModelKMZ.html

AGTEK Video: GradeModel 3D and PDF-Enabled SiteModel 3D KMZ export (page 245)

www.agtek.com/trainingvideos/Earthwork3DKMZ.html

AGTEK Video: Indirect KMZ production workaround for AGTEK 3D (page 245)

www.agtek.com/trainingvideos/Gradework4Dprogresstopo.asp

AGTEK Video: Import and processing of UAV photogrammetry data (page 246)

www.agtek.com/trainingvideos/smartplangeo.asp

AGTEK Video: SmartPlan mobile app ADF/KMZ geo-referencing (page 246).

www.agtek.com/trainingvideos/smartplanadf.asp

AGTEK Video: Export ADF with plan sheets only for SmartPlan mobile app (page 246).

www.agtek.com/trainingvideos/Smartdirtgeo2.asp

AGTEK Video: SmartDirt mobile app ADF/KMZ geo-referencing (page 246).

www.agtek.com/trainingvideos/Smartgradefileprep.asp

AGTEK Video: Export ADF file for SmartGrade RTK mobile app (page 246).

www.agtek.com/trainingvideos/AGTEKAccessSmartDirt.asp

AGTEK Video: AGTEK Access Client - Old (page 246).

www.agtek.com/trainingvideos/webaccess.asp

AGTEK Video: AGTEK Access Web - New (page 246).

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Appendix D – Exporting AGTEK Data (Cont.)

www.agtek.com/trainingvideos/Earthwork4DExportGPS.asp

AGTEK Video: Export ESW file for GradePilot and Grade Super mobile apps (page 246).

www.agtek.com/trainingvideos/EarthworkCleanup.asp

AGTEK Video: Methods to reduce file size in AGTEK 3D (page 247).

www.agtek.com/trainingvideos/Earthwork4DCADFileCleanup.asp

AGTEK Video: Methods to reduce file size in AGTEK 4D (page 247).

www.agtek.com/trainingvideos/Earthwork4DTransfer.asp

AGTEK Video: Demonstrates the Transfer Subgrade utility (page 247).

www.agtek.com/trainingvideos/Earthwork4DStakeListEditor.asp

AGTEK Video: Demonstrates functions of AGTEK 4D's Stake List Editor (page 248).

www.agtek.com/trainingvideos/documentationlayer.asp

AGTEK Video: Demonstrates use of AGTEK 4D's Documentation layer (page 248).

www.agtek.com/trainingvideos/manageexportcolors.asp

AGTEK Video: Overview of AGTEK 4D's Manage Export Colors utility (page 249).

www.agtek.com/trainingvideos/Earthwork4DRevit.asp

AGTEK Video: Export surface data for Revit (page 252).

www.agtek.com/trainingvideos/Earthwork4DSketchup.asp

AGTEK Video: Export surface data for SketchUp (page 253).

www.google.com/earth/download/gep/agree.html

Web Page: Link for free Google Earth Pro download page (page 254).

www.agtek.com/trainingvideos/Earthwork4DSpeedTakeoffp8.asp

AGTEK Video: Ruler Tool method for Google Earth alignment (pages 254, 256).

www.agtek.com/trainingvideos/mapprojectionsettings.asp

AGTEK Video: State Plane Coordinate method for Google Earth alignment (pages 254, 256).

www.agtek.com/trainingvideos/Earthwork4DNewFeatures1-2.asp

AGTEK Video: 4D's new export menu, dialogs and data visibility settings (page 256).

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Appendix D – Exporting AGTEK Data (Cont.)

www.agtek.com/trainingvideos/Earthwork4DKMZ.html

AGTEK Video: Placemark method for Google Earth alignment as used in seminar handbook example (page 256).

www.agtek.com/trainingvideos/Earthwork4DWebinar2.asp

AGTEK Video: AGTEK CAD data and PDF sheets to Google Earth (page 256).

www.agtek.com/trainingvideos/FallonSportsParkP-3.asp

AGTEK Video: Organize Google Earth folders for PDF plan sheets (page 256).

www.agtek.com/trainingvideos/SmartgradegrademodeR1.asp

AGTEK Video: Export AGTEK AGT PNEZ text file from SmartGrade RTK (page 259).

www.agtek.com/trainingvideos/Earthwork4DApplySurvey.asp

AGTEK Video: Export AGTEK AGT PNEZ text file from SmartGrade RTK, import to AGTEK 4D and process data (page 259).

www.agtek.com/trainingvideos/leicaexport.asp

AGTEK Video: Export Leica iCON files (page 260).

www.agtek.com/trainingvideos/Earthwork4DTopcon.asp

AGTEK Video: Export Topcon TN3, LN3, CSV files (page 263).

www.agtek.com/trainingvideos/Highway4DLandXML.asp

AGTEK Video: Export Highway 4D LandXML file and import in Topcon 3D Office and Trimble Business Center (pages 263, 265).

www.machinecontrolonline.com/marco-cecala/4742-us-survey-feet-and-international-feet-everything-you-need-to-know

Web Page: Short article (Part 1) on US Survey Feet vs. International Feet (page 263).

www.machinecontrolonline.com/marco-cecala/5009-issues-with-us-survey-and-international-feet

Web Page: Short article (Part 2) on US Survey Feet vs. International Feet (page 263).

www.agtek.com/trainingvideos/Earthwork4DTrimble1.asp

AGTEK Video: Export Trimble TTM and DWG files (page 265).

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Appendix E – Prepping CAD Files for AGTEK

https://youtu.be/UcG1XeUf1_8

YouTube Video: Convert DWG/DXF file to older release format with DWG TrueView (page 267).

<https://autode.sk/2yHkUL1>

Web Page: Table showing compatibility between AutoCAD DWG/DXF file formats and AutoCAD release versions (page 267).

www.earthworksoftwareservices.com/resourcesw.htm#free_cad_utilities

Web Page: Links to Autodesk (and other) free CAD utilities (page 267).

www.agtek.com/trainingvideos/agtekDWF.html

AGTEK Video: Convert DWF file to Vector PDF with Autodesk Design Review (page 267).

www.backtocad.com/print2cad-2018-manual/videos-2018-1-screen.html

Print2CAD Video: Convert PDF/DWF file to DWG with Print2CAD (page 267).

<https://youtu.be/5hd-QdjkW8k>

YouTube Video: Convert DWG/DXF file in meters (metric) to feet (imperial) with AutoCAD or AutoCAD LT (page 274).

www.agtek.com/trainingvideos/Earthwork3DMetric.html

AGTEK Video: Convert AGTEK job file in meters (metric) to feet in AGTEK (page 274).

Appendix J - Design and Drafting Tools

www.EarthworkSoftwareServices.com/resourcesa.htm

Web Page: Links to analytic add-ons for Google Earth and other site analysis resources (page 303).