



Graphics
SOLUTION PROVIDERS INC



January 2009 eNews



Graphics Solution Providers Inc. (845) 677-5088

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Autodesk/GSP Money Saving
Offers Of Special Interest

**NOTE: All promos have
end dates, so please
contact Craig Grant for
all relevant information
and pricing.**

NO payments for 60 days,
0% interest for 12 months on
Autodesk Software. Call GSP
now.

Retirement Promo - 15% off
upgrades from 2006 versions
with purchase of
Subscription; 10% off without
purchase of Subscription

Call Craig Grant now!

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**Graphics Solution Providers has been awarded
a Revit Structural Authorization by Autodesk!
The time to examine Revit is now.**

With the Revit Extensions Package, the product is ready to take on complex structural designs

Static Analysis of Beams

This extension allows you to perform static analysis of a single or multi-span beam defined in a Revit Structure model. It utilizes information directly from Revit Structure such as: beam geometry, constraints/supports, load cases, load combinations and loads. Results are displayed in both graphical (diagrams) and tabular form. Additionally, results may be presented in the form of a report (in the HTML format). The report for a beam can be printed, saved to a file or sent to a MS Excel© or MS Word© document.



» learn more

- Final Drawings and Documents

Static Analysis of Frames

This extension lets you perform static analysis of a 2D frame defined in a Revit Structure model. It utilizes information from Revit Structure such as: frame geometry, frame members, constraints/supports, load cases, load combinations and loads. Results are displayed in both graphical (diagrams) and tabular form. Additionally, results may be presented in the form of a report (in the HTML format). The report for a frame can be printed, saved to a file or sent to a MS Excel© or MS Word© document.



» learn more

Reinforcement of Retaining Walls

This extension creates true 3D "intelligent" rebar data in Revit® Structure. It lets you define reinforcement for a wall, footing, key and shelves, including inclined walls.



» learn more

You can download a fully functional version of Revit Structural 2009 or request a free CD at Autodesk's [Revit Structural Resource Center](#).

Revit Architecture Features and Specs

Features



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Bidirectional Associativity

A change anywhere is a change everywhere. In Revit® Architecture software, all model information is stored in one place. As a result, any information that gets changed is effectively changed throughout the model.



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Schedules

Schedules are just another view of the Revit Architecture model. A change to a schedule view is automatically reflected in every other view and vice versa. Functionality includes associative split-schedule sections and selectable design elements via schedule views, formulas, and filtering.



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Parametric Components

Parametric Components, also known as families, are the basis for all building components designed in Revit Architecture. They offer an open, graphical system for design thinking and form making as well as an opportunity to express design intent at increasingly detailed levels. Use Parametric Components for the most elaborate assemblies, such as cabinetry and equipment, as well as for the most elementary building parts, such as walls and columns. Best of all, no programming language or coding is required.



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Design Options

Develop and study multiple simultaneous design alternatives to make key design decisions. Present multiple schemes to your clients easily. Substitute each option into the model workflow for visualization, quantification, and other data analysis to inform decision making.



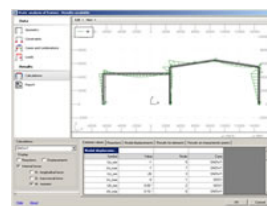
 [View Larger](#)

Revit Building Maker

Turn your conceptual massing into a detailed workflow for common tasks. Easily create expressive forms to produce an overall massing study. Import conceptual massing from applications such as Form-Z, Rhino, Sketchup™, and AutoCAD® 2007, or other ACIS® or NURBS-based applications and turn

Detailing

Take advantage of the extensive detail library and detailing tools provided with Revit Architecture. Presorted to align with the CSI format, detail libraries can be tailored to accommodate your office standards. Create, manage, and share your own detail library.



Material Takeoff

Calculate detailed material quantities with this new tool. Appropriate for sustainable design and checking material quantities in cost estimates, Material Takeoff simplifies the tracking of material quantities.

Revit Architecture 2009 Seminar

Feb 11th 2009

Poughkeepsie, NY area

Providing benefits of the Revit® Architecture building information modeling (BIM) application, this solution protects your software, training, and design data investments; speeds creative design work; and enhances coordination of your presentations and documentation.

You make the switch to BIM at your own pace.

Revit Architecture 2009 software works the way you think. This innovative building design and documentation system helps you work naturally, design freely, and deliver efficiently. Changes made in one view update across all views and on the printable sheets. The name "Revit" implies this ease of revision that is at the heart of the software.

This seminar focuses on basic tools that the majority of users will need to work with Revit Architecture by creating a small office building. Topics to be covered in this seminar include:

- Create a 3D building model with walls, windows, and doors.
- Work with the basic drawing and editing tools in Revit.
- Create Levels and Grids as datum elements in the model.
- Add floors and roofs to the building model.
- Create stairs.
- Create a wall sections, details, and schedules.
- Work with site tools and place this building on a site prepared in AutoCAD.
- Create camera views and a walk-through/walk-around.
- Work with design options tools
- Add component features, such as furniture and equipment.
- Set up sheets for plotting with text, dimensions, details, tags, and schedules.

Revit® Architecture 2009 turns unparalleled flexibility to maximum advantage: Providing benefits of the Revit® Architecture building information modeling (BIM) application, this solution protects your software, training, and design data investments; speeds creative design work; and enhances coordination of your presentations and documentation.

You make the switch to BIM at your own pace.

Note: This seminar is designed to expose you to Revit's power and the potential of its output. It is not intended to replace comprehensive training available to you as a GSP client.

Easy Online Signup at:

[Register Now](#) >

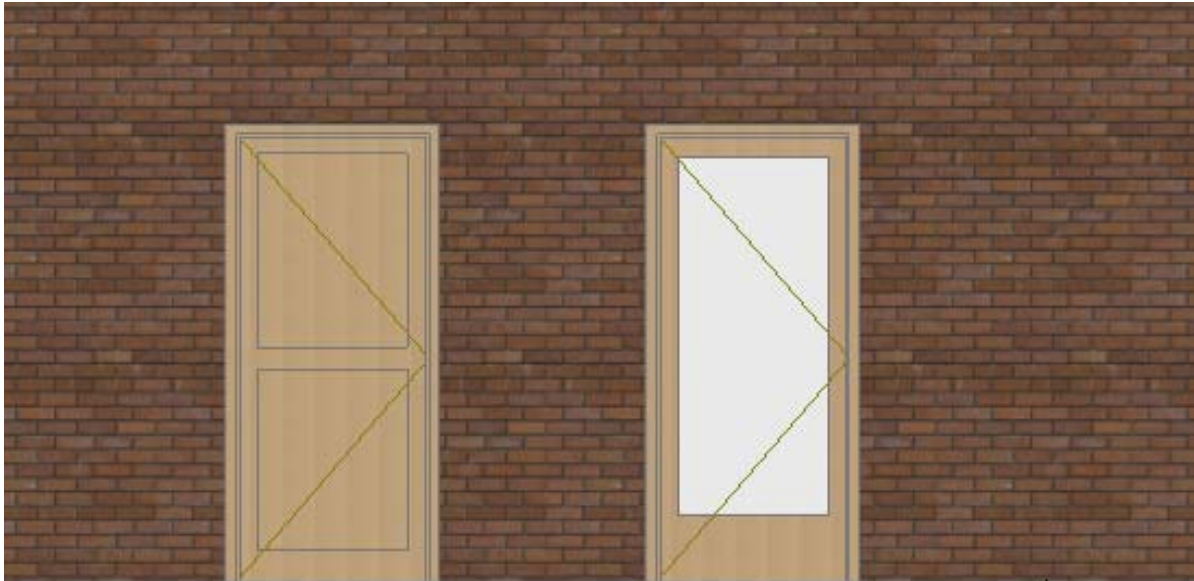
GSP Seminars fill up fast...Sign-up today

1 Customizing a Door in AutoCAD Architecture

(with a new helpful hint for creating profiles)

By Sabrina Pilon, GSP Architectural Specialist

At times you'll need to create your own custom door. In this example, we want to create a door with two wood panels as opposed to a full lite (as pictured to the left below). Let's start with an 'out of the box' full lite single door (it's pictured to the right below). You can edit your door style either by adding a muntin block (Method 1) or by creating a profile and applying that profile to your door (Method 2).

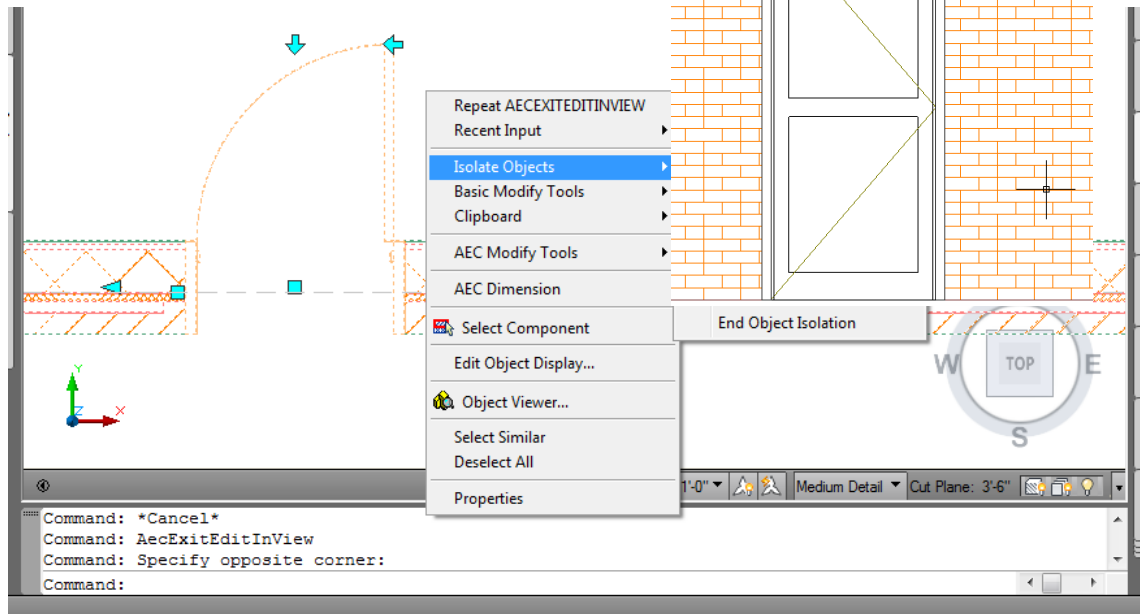


- a) **Method 1 - Copy a similar door style and assign and add a muntin block.** It's best to start off with a door from ACA and work from there.
 - ✚ Place the Hinged – Single – Full Lite Door in your drawing.
 - ✚ Right click to copy and assign it to a new style. Name your new door in the General tab.
 - ✚ Go to the display properties, highlight elevation and check the override box.
 - ✚ Go to the Muntins tab and select the 'Add' button.
 - ✚ Change the muntin width to 4" and change the number of lights high to 2
 - ✚ The only thing remaining is the assignment of materials.

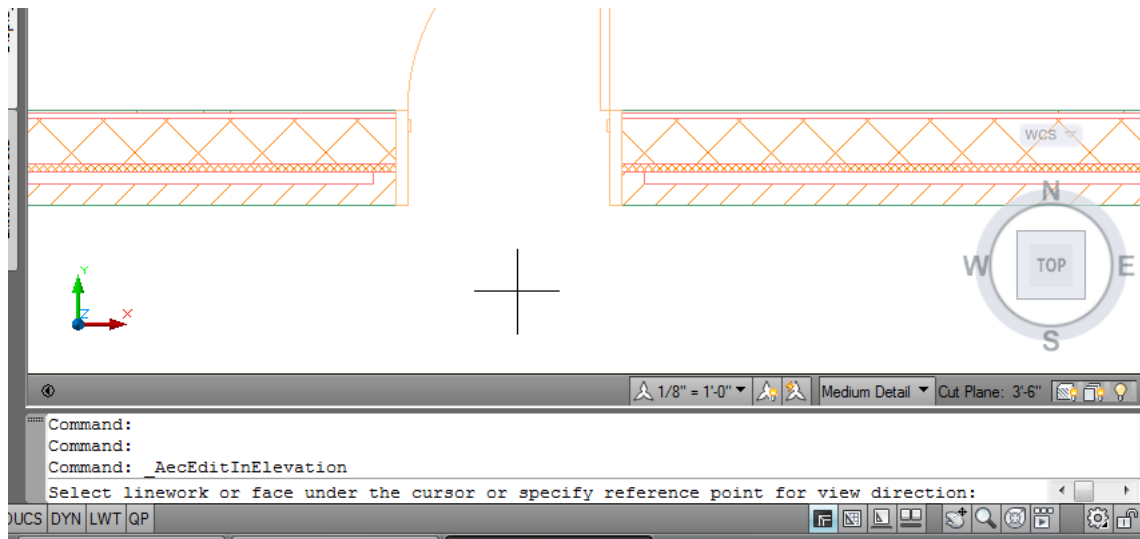
- b) **Method 2 - Create a profile and apply it to your door.** Profiles cut openings into doors for the purpose of showing a new lite pattern or to place a void in the door where a door block will be displayed. When creating linework for profiles, it's easiest to be in a front view to see the door in elevation.

For those of you who have see this presentation of mine, so far nothing stated is new; however, I will add one additional helpful hint that was not mentioned in previous presentations, and that is this; when creating a profile, a helpful tool is the *Isolate Objects > Edit in Elevation* tool from the short cut menu. (...continued...)

Select the door and wall, then right click and select *Isolate Objects*. then *Edit in Elevation*, (see below):

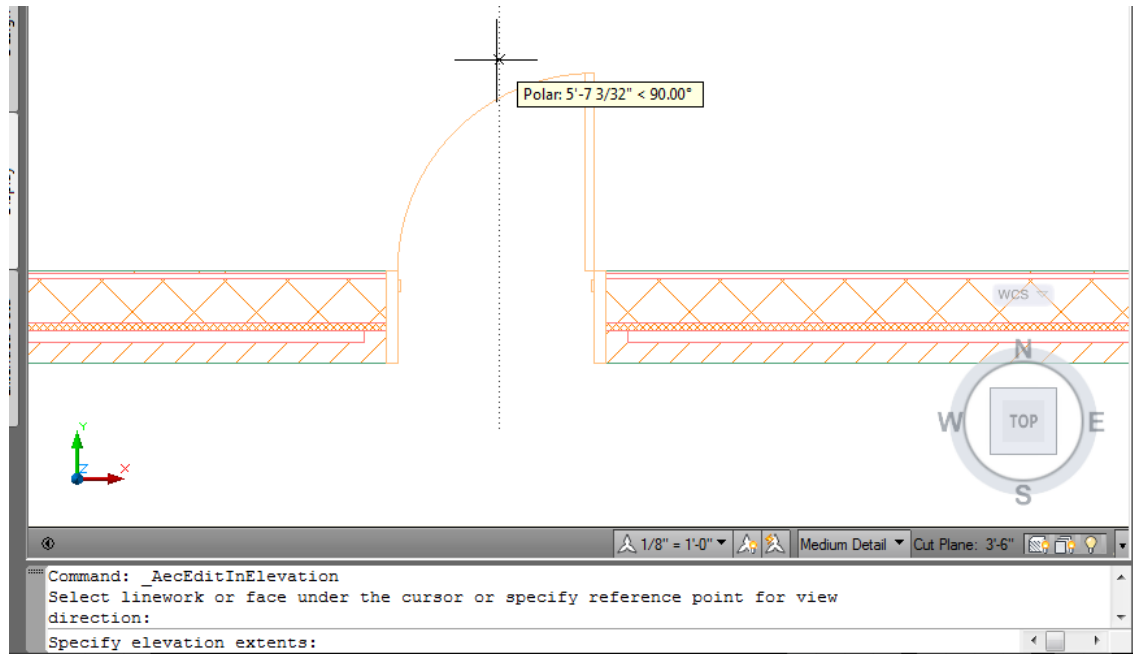


Then follow the command line prompts. First click the side at which you'd like to view your door (I'm clicking just below the door as shown below):



(...continued...)

Then the second click will define the direction of the elevation as shown below by dragging your cursor up and clicking:

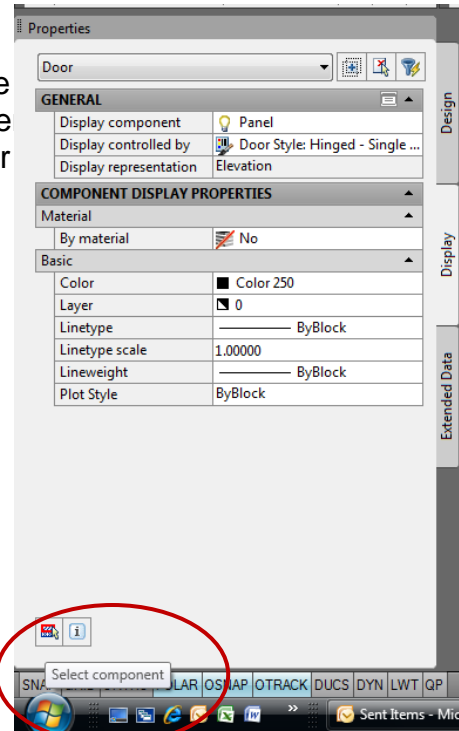


The drawing will now reorient to an elevation view where you can draw your linework that defines the two panels.

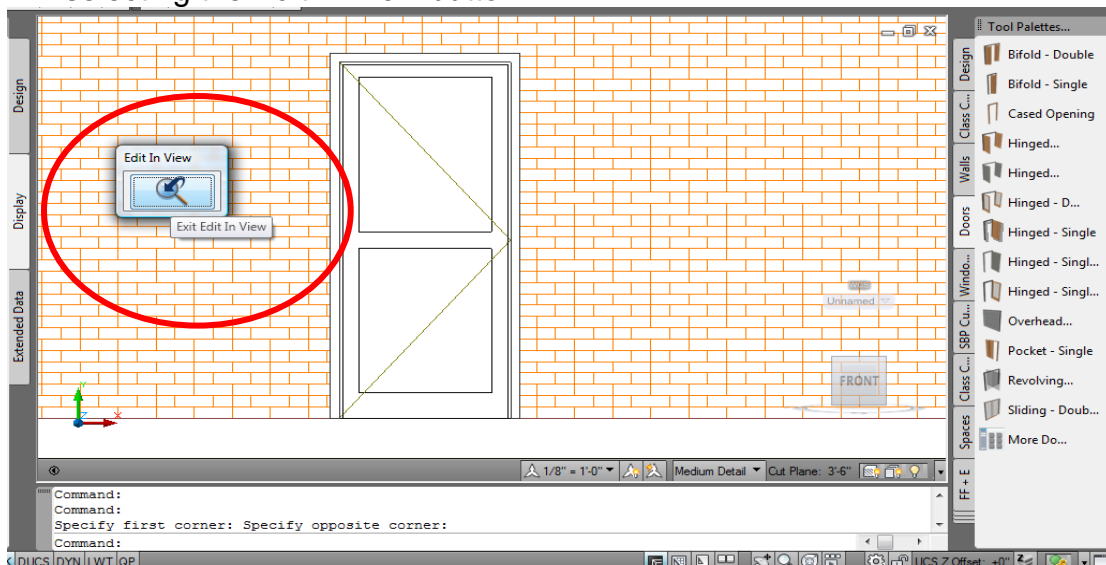
- Draw closed polylines to represent your profile. Draw the profile so that it is made up of concentric, closed polylines. The outer polyline, or ring, becomes the door shape, and the inner polyline becomes the void for the door panels. You can create multiple voids by adding more inner polylines. Voids for panels must be entirely within the polyline representing the door shape.
- Once the polylines are drawn (in this case it should be three – the outer that defines the whole door panel and two inner polylines that define the two panels), put them on the A-Door layer. Their color should be Color 41.
- Now you have to convert the three polylines into a profile. Select the outer most one, right click and select *Convert to Profile*. Follow the steps outlined on the command-line to create and name your new profile.
- Right click the Double Door – Exterior to copy and assign a new door style. Name your new door style in the General tab.
- Navigate to the Design Rules tab and change the profile to your new profile.

(...continued...)

- Now you should see your door with 2 panels in Color 41. If you prefer to see your door with darker panel lines as shown to the upper right, then go to the Display tab of the properties palette and select the *Select Component* button in the bottom left of the palette. Then select one of the lines representing your new door panel. In the *Display Controlled By* line in the palette, make sure it's set to Door Style (this way all doors with this style will be displayed with the darker linework).
- Make sure that *Panel* is the item posted in the *Display Component* of the Properties Palette. Then change the color in the *Basic* section to a darker color, in this case Color 250. Now your door should be finished.



- The only thing left to do is to exit your In Place Edit session. You do this by selecting the Edit in View button.



AutoCAD Civil 3D Comes of Age

As we speak to customers who license AutoCAD Civil 3D, we frequently hear the conjecture that most companies are still using Land Desktop, and that very few are actually using Civil 3D in production. Nothing could be further from the truth. Autodesk surveys indicate that over 60% of Civil 3D Subscription customers are actually using the product in production, and that percentage is growing daily. Further, it's being used by companies of all sizes and specialties. What varies greatly is the way in which companies have implemented the software.

To illustrate these approaches, Autodesk commissioned the preparation of a white paper over a year ago. The result is three case studies which summarize different successful approaches. The three studied organizations range in size from a single-office firm with 7 CAD users to a 235-person firm with 65 CAD users in five offices. A portion of the Executive Summary is included below. We encourage you to access the entire white paper, along with several others and a variety of additional customer stories, at <http://usa.autodesk.com/adsk/servlet/index?siteID=123112&id=8777438>.

Executive Summary

The small firm, Delaware-based Element, works primarily on residential and commercial development. The firm implemented AutoCAD Civil 3D software during a six-month period, using little outside help.* Most of the setup and configuration was done by in-house staff members. When deploying Civil 3D, Element chose to implement Autodesk® Vault software as its project management tool. And before using Civil 3D on a real project, staff members received training on the software from the local Autodesk reseller. To date, Element has completed 10 projects using Civil 3D as its primary design tool and says the implementation of Civil 3D has gone "phenomenally well."

**Before joining the EE team, one of our consultants provided implementation services to Element.*

The midsize firm, Illinois-based Joseph A. Schudt and Associates (JAS), focuses primarily on residential and commercial development projects as well as municipal, public works, and roadway designs. JAS implemented Civil 3D during a four-month period, using a mix of in-house staff and an outside consultant. The outside consultant provided assessment, planning, and training services, while in-house staff handled installation, styles creation, and project management. To date, JAS has submitted more than 50 projects that were prepared using Civil 3D as the primary application. According to the implementation team leader, "We can get a more complete answer quicker: value engineering occurs much earlier in the process than ever before. This absolutely makes us more valuable to our clients."

The large firm, George Butler Associates, Inc. (GBA), is headquartered in Lenexa, Kansas, and has four additional offices located throughout the Midwest. The company works on a wide range of projects, including civil engineering/site development, land planning, municipal development, surveying, and transportation. GBA implemented Civil 3D in two months and made extensive use of outside consulting.

Nearly all aspects of the Civil 3D implementation project were a collaboration between the GBA staff and outside consultants. GBA chose to implement Vault as a data sharing and data management solution.

GBA currently has 12 projects in various stages of design with Civil 3D, and another 12 projects have been completed. A GBA project manager says, "It's scary how quickly you can pull a set of construction drawings together [in Civil 3D]."

GSP Q1 2009 Training/Event Schedule

The only thing worse than training employees and having them leave, is not training them, and having them stay.

TRAINING SESSIONS			Jan 09	Feb 09	Mar 09
AutoCAD Fundamentals	3 Days	\$900	6, 7, 8	18, 19, 20	
AutoCAD Architecture Fundamentals	3 Days	\$900			3, 4, 5
Revit Architecture Essentials	3 Days	\$900	13, 14, 15		24, 25, 26
Civil 3D Essentials	3 Days	\$1,200	19, 20, 21		
Civil 3D Site Grading & Corridor Design Fundamentals	3 Days	\$1,200		23, 24, 25	
WORKSHOPS & SEMINARS					
Revit Architecture Seminar	AM			11	

If you have Help Desk Support with GSP, you receive 20% off regularly scheduled hands-on training sessions at our training facility.

If you wish to sign-up for any training session, click right here: [Register Now](#) >

Seminar Sign-ups can click here: [Register Now](#) >

* No Charge to GSP clients

Clients who have the latest version of AutoCAD Civil 3D, via either Autodesk Subscription or upgrade/new seat purchased from GSP, are entitled to one free seat per calendar year in the appropriate Workshop for each license.

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Providing Digital Design Solutions for tomorrow ... TODAY!

About GSP

Graphics Solution Providers is a full service digital design (CAD) dealer located in the Poughkeepsie, NY area.

We have specialized in the Architectural, Civil, and Survey fields since 1992 by offering hardware, training and support services. Geographically, our primary market area is within NY, CT, Western MA, Northern PA, NJ, and range from firms with one seat to those with over 250 seats.

GSP is proud to be an American Family Business success story and is independently owned and operated for our client's benefit. We have a team of Autodesk certified professionals committed to your success. Our greatest satisfaction comes from seeing your company succeed with computer technology.

No matter whether you are a self-employed engineer/architect just starting up, or an international design/build firm; located in a city or in a remote rural town - we strive to develop long-term relationships with our clients.