

## In Memory of

**Edward Lee Williams, Jr.**  
57 peacefully went to be with the Lord on Wednesday, March 28, 2012.

Ed proudly served his country in the US Army, and NC National Guard for 20 1/2 years. He was co-founder and VP of Operation Helping Hands for Heroes and a member of Rolling Thunder NC4, Raleigh HOG and Patriot Riders.

Ed Worked as a Technology Support Specialist in the IT CADD Support Group at NCDOT. Ed will be remembered as a good friend, proud veteran, loving husband and a **GEOPAK GURU EXTRODINARE.**



**ED Williams 1953-2012**



## this issue

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## New Update Workspace Program

A new version of Workspace Update will be automatically distributed to your machine beginning the week June 4th. The existing program was beginning to exhibit problems and a re-write to bring code up-to-date appeared to be the best course of action.

The new look and feel is slightly different but the functionality is essentially the same. The new program is named the same as the current program (UpdateWS.exe) and should simply overwrite the current one.

**What do I need to do?** Nothing really, simply leave your computer turned on when you leave work on June 4-8. (This gives a several-day timeframe to maximize access to all nec-

essary machines)

**Will my desktop shortcut still work?** Yes it should !!

**Will my auto-update batch routine still work?** Yes it should !!

**What if I don't see the workspace I need to update in the list?** First make sure to click the "Refresh List" button. If you still do not see the workspace you need, contact your Unit CADD Coordinator.

**Will the existing program still work ?** Yes, until June 18. After that date, it will be effectively shut down from the server.

If you have further questions, please email [CADD Support](#)

## Western Division Training is back (sort of)

While IT West has not gotten a new training facility to replace the previous one in Hickory CADD Services (along with PC Training) are again offering training classes for Divisions 9-14. Classes are currently being held at the ROW training room in Winston Salem and in the Temporary Training room in Asheville at the Division 13 Headquarters building. I would like to thank both the ROW Unit and Division 13 for allowing us to use these training rooms. For more information on CADD Training Classes contact Rande Robinson at 828.466.5526 or David Dietrich at 919.386.9116 for PC training or PC software support issues.

## MicroStation You Tube videos

Freeware video demo **View Rotation** - <http://bit.ly/aS0CCw>

Freeware video demo **View Model** - <http://bit.ly/a2L56L>

Freeware video demo **View Levels** - <http://bit.ly/cXtHOM>

## Trouble remembering where the upf is located?

You can open the MicroStation menu item Workspace -> About Workspace. In the middle of the dialog it will show the path to the file (hover over it to see the full path).

## New CADD Images Released

1. Windows 7, 64 bit CADD images are now available for the following machines. Anyone with a TEST version of the Windows 7, 64 bit image should have their machine re-imaged with the production version!

Desktop Models	Laptop Models
Dell op755	Dell e5400
HP xw4600	HP 6440b
Lenovo b97	Lenovo r400 b41
HP 6005 Pro MT	Lenovo r400 WZL
	Lenovo L412
	HP 6460b

2. Related to the release of the Windows 7 CADD image, machines that are dropping off the support list are the HP xw4400 desktop, and the following Dell laptops: d620, d820, d830. The Dell d531 will follow shortly, hopefully by the end of the summer.

3. CADD shortcuts on the user's desktop have changed on the Win7 image. On XP images, there were 4 shortcuts. On the new Win7 image there is only one shortcut, which takes the user to a CADD shortcut folder containing several CADD shortcuts. All the old shortcuts are still there, along with a few new ones.



4. The OneMap 2010 orthoimagery can now be attached using a settings file in the NCDOT\_STDS workspace. The path and file are:

**C:\NCDOT\_V8\_WORKSPACE\NCDOT\_STDS\Standards\image\OneMap2010Ortho\_AttachSettings.xwms**

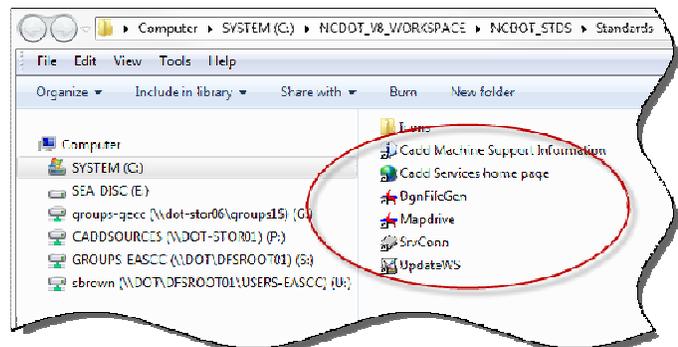
To use the file, select the Microstation commands **File > Raster Manager > File > Attach > WMS**, and browse for the settings file.

5. The CADD Services training request form has recently changed. Please note the addition of the **MicroStation 3D Basics** course. The new form is available on the CADD Services training page on Inside NCDOT. The URL is;

<https://inside.ncdot.gov/Business/technology/Pages/Tech-CADD-Training.aspx>



With the new **CADD Tools Icon** on the Windows 7 CADD PCs desktop, one can quickly access the CADD Services standard applications like Design File Generator and Update Workspace with just a click of the mouse.





## How to get CADD Training

With each new version of software comes the never ending activity of learning how the program's great new features work and which old ones don't .

If you need training for a new employee or feel you need a refresher course in any of our CADD products, all you need to do is go to the CADD Support section of the NCDOT Intranet Portal at:

<https://inside.ncdot.gov/Business/technology/Pages/Tech-CADDServices.aspx>

Then select Training from the Document Library CADD Menu. From the Training page download and fill out the CADD request Training form and mail the form to:

**Steve Brown**  
Engineering Application Services



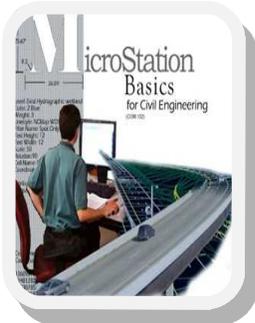
1597 Mail Service Center  
Raleigh, NC 27699-1597

CADD Services will get you into the next available class provided there is no waiting list.

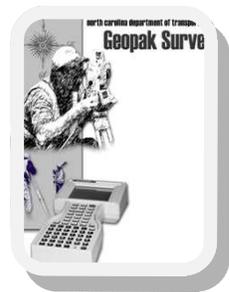
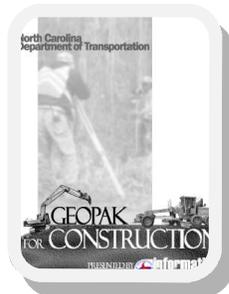
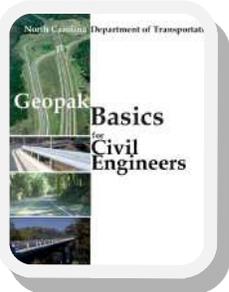
Remember that it is not necessary to continue to fill out requests if a request is on record. If in doubt email Steve at [sbrown@ncdot.gov](mailto:sbrown@ncdot.gov)

Also, when making a request, **check off all the classes that you wish to take.** (i.e. It's not necessary to complete MicroStation before you can request GEOPAK). Once we receive and enter a request our database keeps up with them.

## CADD Training Courses for NCDOT Employees



# New Course



North Carolina Department of Transportation

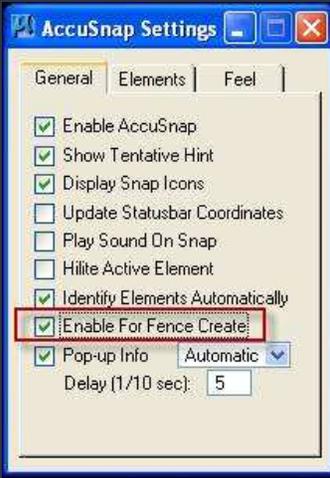
# MICROSTATION 3D BASICS

Com 203 – Microstation 3D Basics

Information Technology  
cadd services

## COM 203 MicroStation 3D Basics

## Enable AccuSnap for Fence Create.



## AccuDraw & AccuSnap

When using AccuSnap in conjunction with AccuDraw, one can use the following AccuDraw shortcut keys:

**F**—A 3D key that aligns/orients the AccuDraw compass with the front view of the design cube regardless of your views rotation.

**S**—A 3D key that aligns the AccuDraw compass with the right side view of the design cube regardless of your views rotation.

**T**—A 3D key that aligns the AccuDraw compass with the Top view of the design cube regardless of your views rotation.

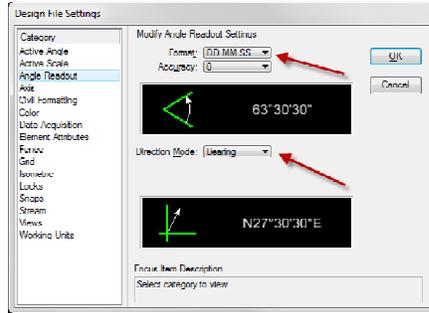
AccuDraw also lets you change the snap mode for the *next snap* the following keys.

**I**—to use the Intersect Snap

**N**—changes to the Nearest Snap

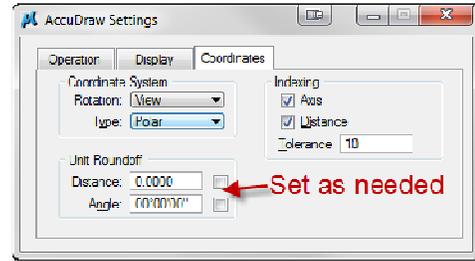
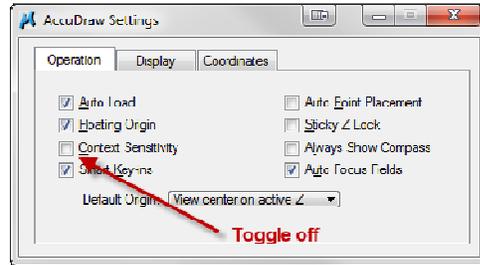
**C**—Center Snap

## AccuDraw and Bearing Key-ins



This topic has been covered in a previous issue of the CADDNews but the question of how to enter quadrants with AccuDraw came up in a recent Introduction to MicroStation class so I think it is worth repeating.

First, In the AccuDraw setting dialog set your read out to bearings, adjust your coordinate readout to what you need and make sure Context Sensitivity is off.

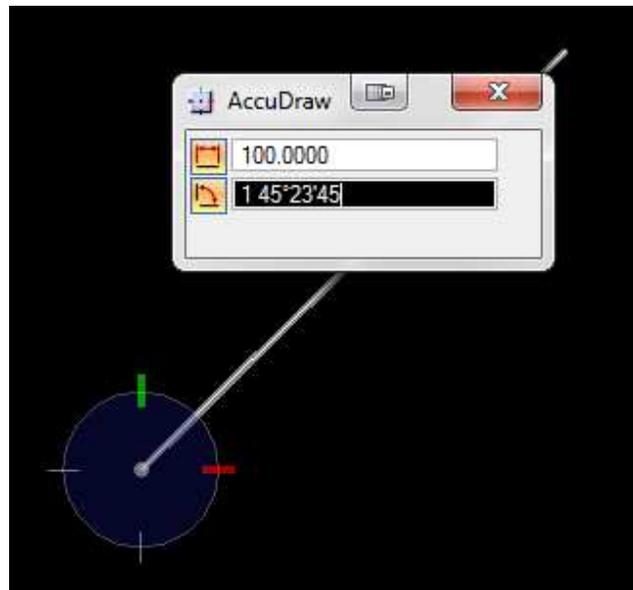


Make sure that AccuDraw is active and set to polar mode (remember you can toggle between Polar and Rectangular modes by simply pressing the space bar while AccuDraw is active). Polar mode then activates the following shortcuts:

Northeast = quadrant 1  
 Northwest = quadrant 2  
 Southwest = quadrant 3  
 Southeast = quadrant 4

Then the quadrant number can be used to replace the N...E convention, for example

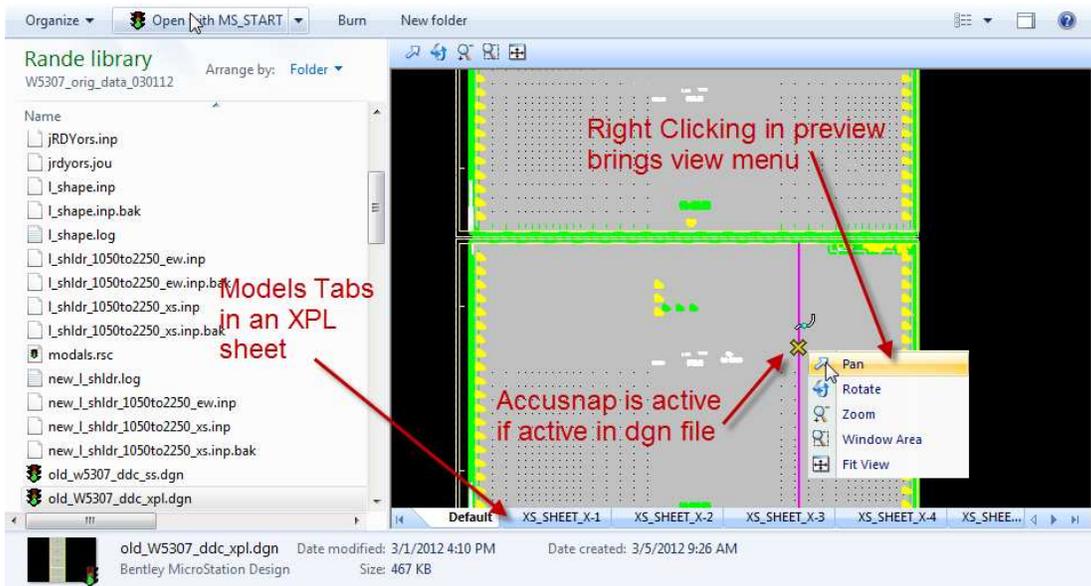
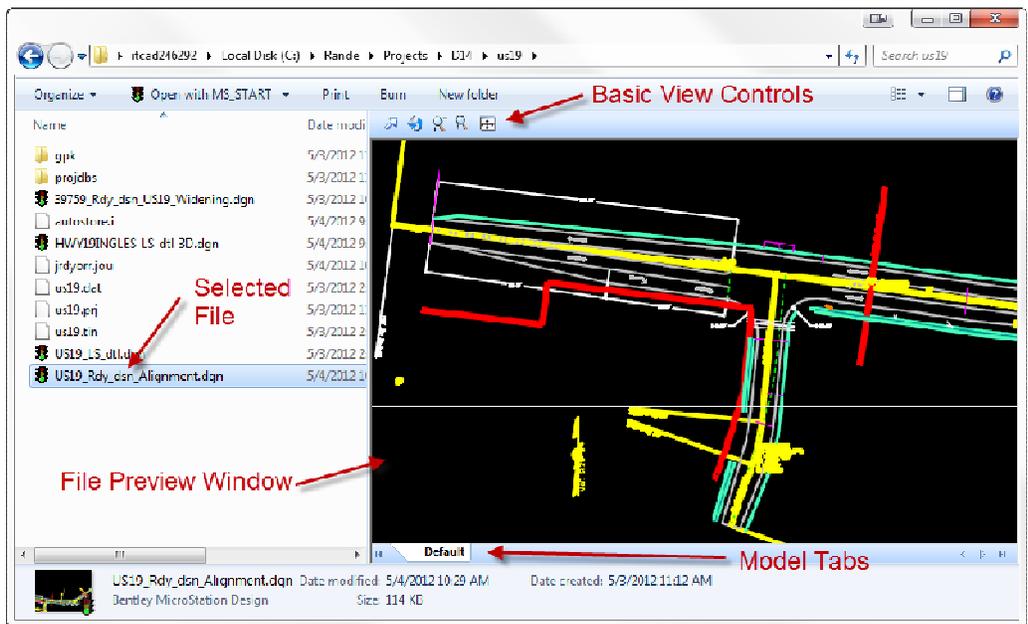
Rather than keying in **N45°36'45" E** one can key-in **1 45°36'45"** thus saving a key stroke.. Additionally you can simplify the input further by replacing the carrot symbol (shift-6) with a semicolon as shown here **1 45;36'45**





## Window 7 MicroStation File Preview —

As the department rolls out Windows 7 one new feature for CADD users (and others too), will be the ability to “Preview” a MicroStation Model (file) in the Windows Explorer Preview pane. Not only will you see what is in the file but you will be able to move around the “Preview” with simple view controls, provide at the top of the window pane or by right clicking with the cursor in the preview pane.



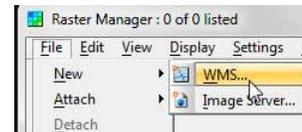
## OneMap World Mapping Server (WMS) now Available

Ever need to attach an image underneath your design file? Have you been clipping Google Earth images and trying to warp them to fit? If you have recently updated your workspace then you don't have . You can now use MicroStation Raster Manager to attach coordinately correct orthographic imagery of the entire state of North Carolina to your design files.

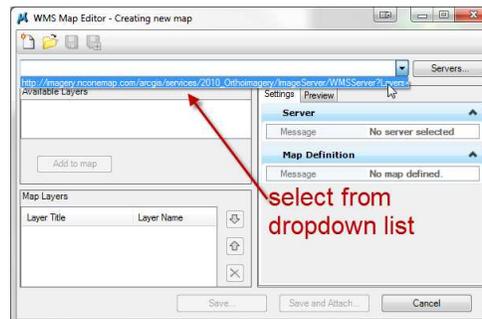
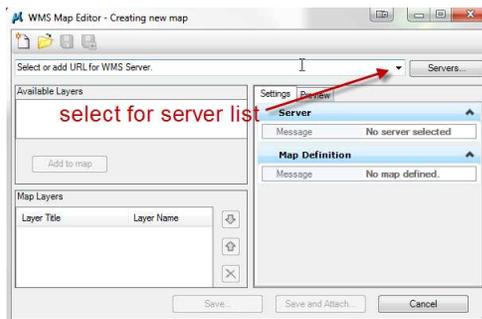


1) Open Raster Manager via the File Pull down menu or by selecting the the icon

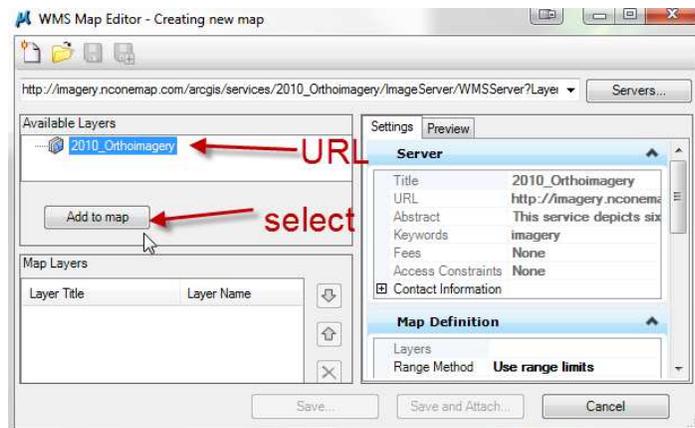
2) Under Raster Manager **File>New>WMS** opens the WMS Map Editor dialog.



3) The dropdown list for Select or Add URL for WMS Server is currently only populated with one listing (after you have updated your Workspaces!) which is the link to NC One Map.



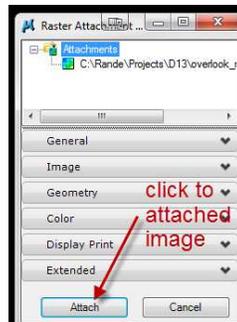
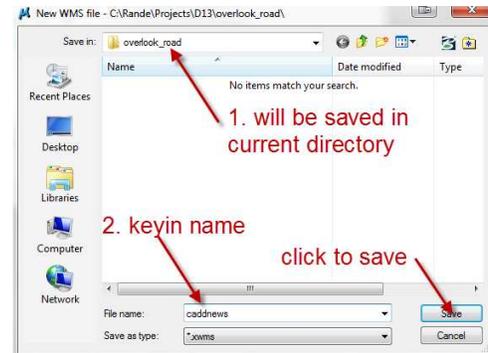
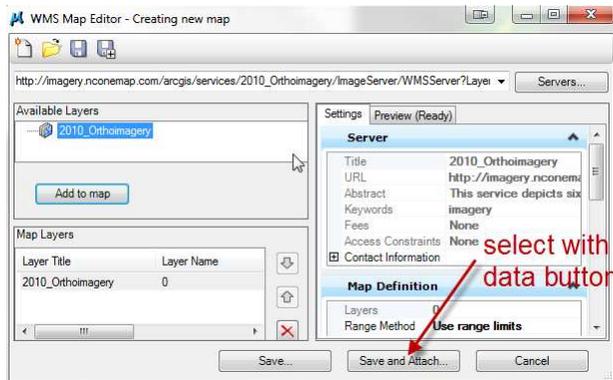
4) After selecting this URL, there is a layer that appears under the Available Layers section highlight it and then select the Add to Map button with a data point.



5) This activates the Save and Attach button on the bottom of the dialog, press it and the following dialog appears which wants the user to name a .xwms file for this particular attachment. (Continued next page)

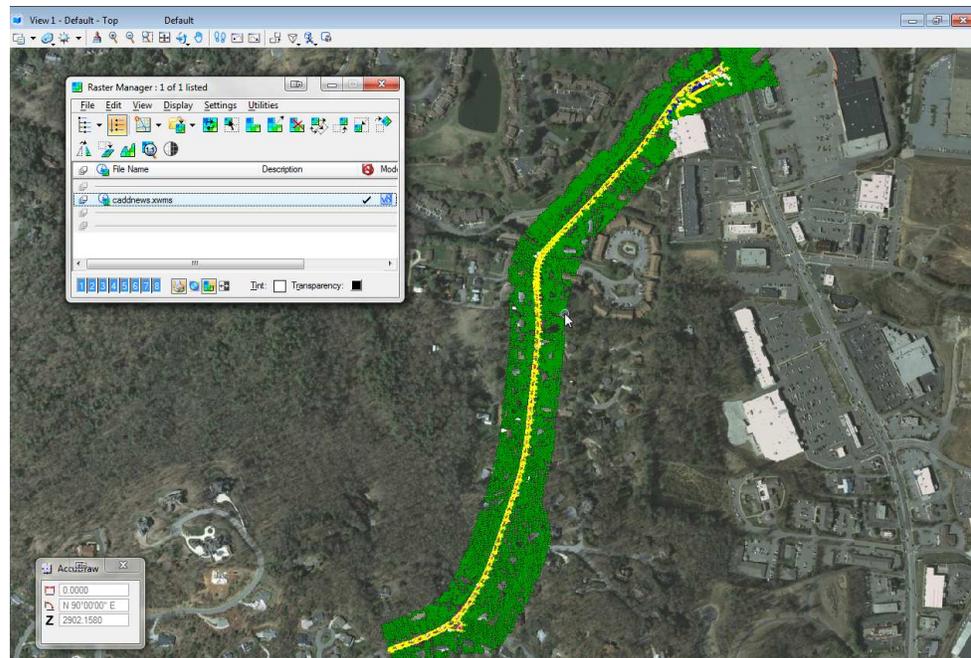


(WMS Continued from page 6)



This file name can be stored in the project directory for use later. After which the Raster Attachment dialog will appear. Select the attach button to finish attaching the WMS Image.

6) Depending on the network speed, after a few moments (be patient) the image should appear behind there mapping just like any other raster. Be aware that zooming in or out may take some time to refresh.





NCDOT  
Information Technology  
Engineering Technology Systems  
Engineering Applications Service  
CADD Services

<http://www.ncdot.org/doh/CADD/>

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Raleigh, NC 27699-1597

Phone: 919.707.7030  
Fax: 919.212.3072

IT West / co: Bridge Maintenance  
1296 Prison Camp Road  
Newton, NC 28658

Phone: 828.466.5526  
Fax: 828.466.5579

On the NCDOT Intranet at

<https://inside.ncdot.gov/Business/technology/Pages/Tech-CADDServices.aspx>

## Last Word )— How Smart is Your Right Foot?

This is hysterical. You have to try this (and it only takes 2 seconds). It is absolutely true, apparently there are some things that the brain just can't handle.

1. While sitting at your desk in front of your computer, lift your right foot off the floor and make clockwise circles with it.
2. Now, while doing this, draw the number "6" in the air with your right hand. Your foot will change direction.

Told you so! And there is nothing you can do about it is pre-programmed in your brain.

## Random Thoughts

"Two things are finite in design, Time and Money. As soon as you run out of one or the other you start really ENGINEERING" - AUGI

"This is what comes of spending too much time with people who think in exactly the same way as you. It becomes impossible to imagine how any rational person could think otherwise." - Andrew Coyne

"Education is the ability to listen to almost anything without losing your temper or your self-confidence." --Robert Frost

"Any idiot can face a crisis -- it's the day-to-day living that wears you out." --Anton Chekhov

"Engineers do not necessarily use the best of everything but make the most of everything"- Chandramouli

## CADD News

Issue 01 Volume 12  
June 2012

## CADD News Quote of the Issue

"Some problems are so complex that you have to be highly intelligent and well informed just to be undecided about them."

-Laurence J



## Bentley View

Need to view or print a quick copy of a MicroStation file but you don't have MicroStation on your PC. Then Just login to Citrix at:

<https://gateway.dot.state.nc.us/Citrix/XenApp/auth/login.aspx>

and select Bentley View icon. If you need help on how to get started using Bentley View. Then check out the *Using Bentley View under Citrix* video on the CADD Support IntraNet site at:

<https://inside.ncdot.gov/Business/technology/Pages/Tech-CADD-Trn-Videos.aspx>



Use your DOT Active Directory Username/Password.  
DOT Help Desk 1-800-368-2778

## Last Word— last issue simple question answer

How does one write 4 in between 5? - **FIVE**