

CADD NEWS

ISSUE

02

Volume 24

NCDIT Transportation Engineering Design & CADD Services Newsletter

July 2024

Mid-Year Update

Hard to believe July is almost over, and we have made it halfway through another year. So, what's been happening in the ORD/Connect world? Bentley has recently released the Latest versions of OpenRoads Designer and OpenBridge Designer. A brand-new Bentley Learn website that should be easier to navigate and much more responsive than the "original version," along with some new and updated training material.

The North Carolina Local User Group annual summer conference will be held August 20-22, 2024, at the Mckimmon Center on the campus of NC State University. The conference is an excellent opportunity to expand your knowledge of all things Bentley, earn some PDHs, and network with fellow users from the PEF, DOT, and local government communities. Also, the NCLUG will celebrate 15 years of service to the Carolinas and beyond.

Finally, I hope you find this issue of CADD News useful and informative. Please let us know if you have any suggestions or would like to submit an article or two. Thanks for reading.

-The Editor

"There are years that ask questions and years that answer."

- Zora Neale Hurston

In This Issue

- NCLUG
- · In-Person Training
- TEAMs Training
- Portals
- . DDCUG
- DDCUG tips
- Last Words





NCLUG Summer Conference Update

The North Carolina Local Users Group (NCLUG) annual **Summer Conference is August 20-22, 2024**, at the Mckimmon Center on the campus of NC State University. For additional information, visit the NCLUG website at NCLUG.COM.

		Day 1 - Aug 20															
		Workshop A			Workshop B			Lectu	ıre A		Lecture B						
8:0	0 am - 8:25 am					Regi	istration		l								
8:31	30 am - 9:00 am					Networking Breakfast											
0:00 am - 10:00 am Keynote Address: Jen					ddress: Jennifer	ss: Jennifer Evans, NCDOT Deputy Director of Technical Services											
10:0	10 am - 10:15 am					В	Break										
10:1	15 am - 11:15 am					Keynote /	Address: TB	D									
11:1	5 am - 11:30 am					В	Break										
11:3	0 am - 12:30 pm	Keynote Addr	ess: Dr. D	aniel Findley	, NC State Unive	ersity, Assoc	ciate Directo	or, Institut	te for Transportation	n Research	and Education						
12:3	30 pm - 1:30 pm					L	unch		_								
1:3	0 pm - 2:30 pm	ORD Sheeting Lily Cloud, NCDOT			Designs and D n Schwartz, Be				enRoads Designer agh, Bentley		Ethics Javid Evans, NCB	ELS	D	_	A= 21		
2:3	0 pm - 2:45 pm	Break			Break			Bre	rak				Day A	۷-	Aug 21		
2:4	5 pm - 3:45 pm					1			New in Jesigner 2023 Imes, Bentley	Re Ir	netry Connector: eplacement for Ge ncomplete Alignm Edgar Leicht, S1	eopak ents	Re	egis	Lec	ture A	Lecture B
	5 pm - 4:00 pm	Break		Creat	Break ing Drainage Re	ports	Мо	Bre deling Rei and Side	taining Walls	I-	Break -Twin Design Rev	ie v s	an Voger	n, Be	entley VP Transpor	tation Bentley	
4:U	0 pm - 5:00 pm			Jord	an Hatfield, Be	ntley	Naji		agh, Bentley		Dan Gleason, VI			Т	В	reak	Break
					9:	30 am - 10:	:30 am					etry for Surv ichwartz, Be				rainage Profiles field, Bentley	Roadway Design Manual Updates NCDOT
					10:	30 am - 11	:00 am		Break			Break			В	reak	Break
					11:	00 am - 12	2:00 pm						ļ		Seed D	Orawing Sheet Definitions Olmes, Bentley	Hydraulic Unit Update NCDOT
					12	:00 pm - 1:	:00 pm							Lui	nch		
					1:	00 pm - 2:		Α	Location & Survey: cquisition Process ian Barwatt, NCDO		and 0	ge Plans, Pro Cross Sectio Hatfield, Be	ns		Project∀ise an Christia	gether: ORD, d iTwin Integration na Holmes latfield, Bentley	Ethics David Evans, NCBELS
					2:	00 pm - 2:	30 pm		Break			Break		I	В	reak	Break
-					2:	30 pm - 3:	30 pm						ļ		and Typical	eets, Detail Sheets Section Sheets field, Bentley	Making Transition to 3D Workflows (FL, GA, SC, and NC) Andrew Poszich, RS&H
		Wor	kshop A		3:	30 pm - 4:	00 pm		Break			Break		1	В	reak	Break
	8:00 am - 8:2				4:	00 pm - 5:	00 pm			Ţ		d Model ADA (Lecture) Hatfield, Be				g Terrain Models gagh, Bentley	Roadway Design Plan Production Oak Thammavong, NCDOT
	8:30 am - 9:3	0 am			-												
	9:00 am - 9:3	30 am B	reak			Bre	ak			Break		l	Br	eak		_	
	9:30 am - 10:3	ORD Corric 30 am Oak Thamm					aging Geo agh, Bent		Creating Sta Christiana					ume	roject (Model as nt) - Andrew IS&H		
	10:30 am - 11:	00 am B	reak			Bre	ak	+		Break			Br	eak		_	
	11:00 am - 12:	00 pm						1	Grading Des Bridg Steve Will	e Abutme	ents	Geo	technica Tim Merri	al Uı ill, N	nit Update ICDOT	-	
	12:00 pm - 1:0	00 pm						L	unch			ı				-	
	1:00 pm - 2:0	00 pm		ļ		Mode	with Oper eler Jhby, Bent	_	Using OpenRoa and Manag Transpo	e Utility (rtation P	Clashes in rojects				ed Workspaces d, NCDIT	_	
	2:00 pm - 2:3	30 pm Break				Break			Jordan Hatfield, Bentley Break			-	Break			_	
	2:30 pm - 3:3	Advance Te	emplate						Getting the Mo	st Out of	n .		Inegratio	n To	eam Updates lla, NCDOT	-	
	3:30 pm - 4:0	00 pm B	reak			Bre	ak			Break			Br	eak		_	
	4:00 pm - 5:0)O pm		ļ				1	Best Practice: and Najib Azo	Referenc	ces	a	ltem Type nd Quant Dan Glea	tity	Reports	-	
									, alph 1120								





Linn Cove Viaduct

In Person Training

NCDOT has two CADD Training labs available for CADD Training. One is the ET-Lab in Building B of the Century Center in Raleigh. The second is the Division 13 Computer Lab located in Marion at the District 3 maintenance building. The following in-person courses are currently scheduled.

ET LAB

Date		Course		
September 3-4		ORD 101		
October 2-3		ORD 101		
October 15-17		MicroStation Connect I (ORD)		
November 19-21		MicroStation Connect I (ORD)		

Marion Computer Lab

Date		Course
August 7-8		ORD 101
November 6-7		ORD 101

What classes does **CADD** Services Teach

Cadd Services is currently teaching two courses in person and online via teams.

MicroStation Connect I (ORD)

It is a three-day course covering the basics of using MicroStation within Open Roads Designer. This course is recommended for all users, whether old hands or fresh out-of-school newbies, particularly if you don't use MicroStation regularly.

ORD 101

This two-day course covers the basics of using OpenRoads Designer (ORD). It is not an indepth course but is intended to give the designer the basics to get







How to sign up Training (NCDOT employees only)

To Sign up for these or any other course offered by EDCS, visit the State of NC Integrated HR-Payroll System website at:

portal.osc.nc.gov/ app

Log in with your NCID credentials and then select LMS & NCVIP from the top of the page to be taken to the Learning Management System (LMS), where you can sign up for these and other training courses.

Note: to sign up, you must have a valid NCID login and be a state employee

TEAMs Training

In addition to In-person training, Engineering Design & CADD Services (EDCS) also offers our current courses online via TEAMs. Our TEAMs class is the same as our In-Person ones delivered over the network. To take a class via teams, you should have at least two monitors, a microphone, and a camera for the best experience.

ORD 101 on TEAMs

Date		Course
November 23-24		ORD 101
December 4-5		ORD 101

MicroStation Connect I (ORD) on TEAMs

Date		Course			
September 24-26		MicroStation Connect I (ORD)			
December 10-12		MicroStation Connect I (ORD)			

ProjectWise Q&A Session

This is a working session for NCDOT ProjectWise users to join and ask questions about utilizing ProjectWise. The NCDIT Engineering Design and CADD Services ProjectWise Team will facilitate this working session.

Wednesday, July 31, 2024, 1:00 PM-2:00 PM

For more information and an invitation to the TEAMS session, email *Jeff Garland at jmgarland@ncdot.gov.*





Current NCDOT CADD Software Versions

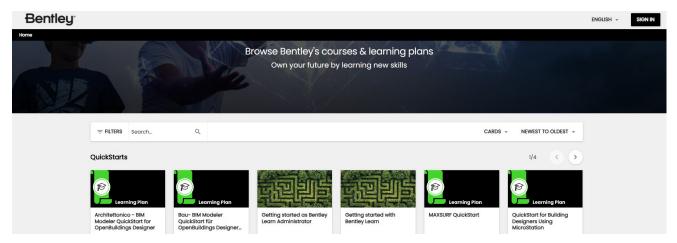
(as of 18 July 2024)

Product	Version
PowerGEOPAK SS4	08.11.09.878
PowerGEOPAK SS10	08.11.09.918
OpenRoads Designer	23.00.00.129
OpenBridge Designer	23.00.01.024
Open Rail Designer	23.00.00.129
ProjectWise Explorer Client	10.00.03.453
Connection Client	23.00.00.10
Interplot Client	08.11.11.56
Operating System - Windows 10 Professional	64 Bit
Productivity Suite - Microsoft Office 365	32-bit
AutoTurn	11.05.42
GuideSign Plus	24.8.20.150
Torus	6.03.4
Trimble Business Center	5.90.1
Bluebeam REVU x64 Extreme	20.2.70
GEOPAK SS2*	08.11.07.615
UpdateWS	19.12.19.1





The Bentley Learn Server



Training can be found on the Bentley Learn Server (www.learning.bentley.com/learn). The Training (though not NCDOT-specific) is available to anyone with access to the Bentley Learn website.

NCDOT ORD CADD Portal



Additionally, NCDOT has created a new Service Now Portal to act as a ORD support and knowledge base

https://ncdot.service-now.com/ordsp



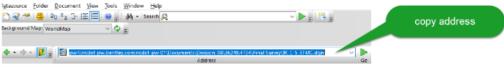


Division Design & Construct Users Group

The Division Design & Construction Users Group (DDCUG) meets on TEAMs every other Thursday from 2:00—2:30 p.m. to discuss and work through issues encountered by division ORD and Connect users. While it is focused on ORD use in the division DDC units, anyone is welcome to attend and share their knowledge. For more information and a TEAMs invite, contact Michael R Trotter (mtrotter@ncdot.gov).

From the DDCUG Chat Archive

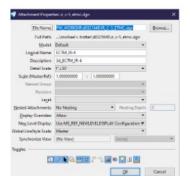
If you are attaching the same reference file to different ORD files on ProjectWise you can use the key in reference attach "pw:\ncdot-pw.bentley.com:ncdot-pw-01\Documents\Division_08\{project folder}\{project sub folder}\{file name}.dgn". the file path can be copied from the ProjectWise Address Bar. The quotation marks (" ") have to be put around the address for ProjectWise to read address.





The reference file box will open and just click ok.

attach a reference file with only a key in



To attach a reference file with a key in without the reference file box opening the key in is reference attach "pw:\\ncdot-pw.bentley.com:ncdot-pw-01\Documents\Division_08\36249.4734\Final Survey\IR_C-5_ETMC.dgn" Default,ECTM_IR-4.3d_ECTM_IR-4.*

The command key in after the quotation marks at the end are separated by commas, and set set the Model of the file to be referenced, next sets the Logical Name, the next part sets the Description, and the asterisk (*) keys in OK. The reference file will then attach with out any more user input.

The name of the Model must be known. The Logical Name and Description can be names about what ever you like, but you can not use spaces in the name.

This command can be used in batch files





More From the DDCUG Chat Archive

(from the ORD Oracle of Division 8)

To see the Elevation and Station in the profile view.



Expanding the Measure Distance Tool Settings Box







The Engineering Design & CADD Services Team



CADD Support

What is the quickest way to get help if you have a problem or a question about ProjectWise, MicroStation, ORD, OBD, or any other CADD/Engineering software?

Simple, email your question or issue to either:

CADD-sup@ncdot.gov

for questions about MicroStation, ORD, etc.

Dot.pwsupport@ncdot.gov

for all things ProjectWise related.



Last Words

Deep Thoughts



Bluebeam License Update

We are aware of the issue with the availability of Bluebeam licenses at times and want to assure you that we are working diligently to resolve it over the next few months. We recently signed a new contract with Bluebeam, which will provide more licenses.

Unfortunately, they have changed the licensing scheme, so we will no longer have "pooled" licenses. Which means we must license each user and PC (remember the old geopak days)?

IT is working on exactly how to distribute and manage them. Until then, we will continue to use the current license pool. Hopefully, this will all be resolved soon.

- Engineering Design & CADD Services Unit

Contact Us

NCDIT - Transportation, ETS ,EAS, Engineering Design CADD Services

Web Address

https://connect.ncdot.gov/ resources/CADD/Pages/ default.aspx

Mailing Address

Century Center Complex Bldg. A 1597 Mail Service Center Raleigh, NC 27699-1597

Email the Editor

rjrobinson@ncdot.gov

For questions about MicroStation, ORD, etc.

CADD-sup@ncdot.gov

For all things ProjectWise related

Dot.pwsupport@ncdot.gov



