Mathew J. Calkins P.E.				
Address – 88 Blue Hills Dr. Guilford CT 06437				
<b>Telephone Number</b> - 860-912-0398				
Email Address - N	Mathew.calkins@ct.gov			
Summary	<ul> <li>Civil Engineering B.S. from the University of Connecticut.</li> <li>Professional Engineer License # PEN.0028413</li> </ul>			
	<ul> <li>Strengths include; Being the lead on a team and managing the responsibilition and schedule for a project. Learning new concepts and procedures quickly, working efficiently in groups and individually to get jobs done quickly, ability work on a number of things at once in the most efficient manner, excellent verbal and written communication and interpersonal skills, learning new computer software's functions and limitations quickly.</li> </ul>			
	• Strong computer training, including extensive knowledge of Bentley CONNECT Microstation (2-D and 3-D modeling), Bentley Projectw CONNECT, Bluebeam, Microsoft Suite of Products (OneDrive, On Project, Sharepoint, Excel, Word, Powerpoint), STADD for structura LEAP design software, MathCad.	NECT Microstation (2-D and 3-D modeling), Bentley Projectwise NECT, Bluebeam, Microsoft Suite of Products (OneDrive, OneNote, t, Sharepoint, Excel, Word, Powerpoint), STADD for structural analysis, design software, MathCad.  g knowledge of the following manuals: Connecticut Department of portation Bridge, Highway, Consultant Administration and Project		
	Strong knowledge of the following manuals: Connecticut Departmen Transportation Bridge, Highway, Consultant Administration and Pro Development, and Digital Project Development.			
	Good knowledge of AASHTO Specifications, both ASD and LRFD, and Standard Specification for Structural Supports for Highway Signs, Luminaries and Traffic Signals, MUTCD.			
Education	NHI Courses completed at CTDOT:  Introduction to Data Analysis	2008- 2021		
	Instructor Development	2021		
	Context Sensitive Solutions			
	LRFD for Highway Bridge Substructures			
	LRFD for Highway Bridge Superstructures			
	Bachelor Degree in Civil Engineering	Graduated		
	University of Connecticut, Storrs CT	2007		
	Concentration in Structural Engineering			
	Stonington High School	Graduated		
	Stonington CT	2001		

Career History	Supervision Engineer, Bureau of Engineering and Construction, Division of Facilities and Transit, AEC Applications Section, Connecticut Department of Transportation, Newington CT	10/2018 - Present
	• CAD Manager: Lead a team of engineers in the development, implementation, and maintenance of the CAD standards, workspace, and design procedures that are used by in house and consultant engineers. This includes both 2D and 3D modeling standards as well as developing asset management techniques primarily using the item types feature in Bentley's CAD software.	
	Data Lead for Bureau of Engineering and Construction – Lead a team of engineers in the development, implementation, and maintenance of data collection, data management, data analysis, and data visualizations for various transportation assets. This is primarily done with ESRI and various Microsoft tools.	
	• CAD to GIS Lead: Lead in developing CAD to GIS techniques that allow CTDOT to maintain the asset inventories for various transportation assets by combining the CAD and GIS software. This allows CTDOT to maximize the use of data created during the design phase of a project where it can be used in construction and maintenance and operations.	

10/2013 -2018

## Transportation Engineering III, Bureau of Engineering and Construction, Division of Design Services, AEC Applications

| **Section,** Connecticut Department of Transportation, Newington CT

- Projectwise Administrator: Developed all Projectwise securities, document attributes and project properties for all types of documents and projects, and storage/work areas for all disciplines and groups within CTDOT. This project included work complete by myself as well as overseeing other employees for this development
- Projectwise Support for CTDOT employees and consultants.
- Data management for various engineering owned assets and capital projects. This includes EED information such as project polygon locations and asset locations, and CAD to GIS initiative which is an integral part of asset management. This project included work complete by myself as well as overseeing other employees for this development
- Converted the paper based design review process to a digital review process that uses Bluebeam Studio and Projectwise.
- Converted the paper based contractor submittal process to a digital process that uses Projectwise.
- Lead role for the implementation of COMPASS. Main tasks are for data validation, document storage, document control, developing workflows for business automation processes, and setting up and managing AEC Applications SharePoint site as well as providing guidance for how other units in the Offices of Engineering and Construction shall set up their SharePoint sites.
- Worked with the Agreements unit to convert their paper agreement process to a digital process. This new process includes having all of their agreements stored in Projectwise.
- Implementing and Supporting the Office of Engineering's role out of Ipads.
- Active member of the TED group representing the Office of Engineering. The Ted Group functions as a Department wide collaborative effort to manage data in the areas of data capture, data providers, data updates, and data exposure.

5/2010 – 10/2013

## Transportation Engineering II, Bureau of Engineering and Construction, Division of Design Services, AEC Applications

**Section,** Connecticut Department of Transportation, Newington CT

- Projectwise Administrator: Developed all Projectwise securities, document attributes and project properties for all types of documents and projects, and storage/work areas for all disciplines and groups within CTDOT.
- Projectwise Support for CTDOT employees and consultants.
- Microstation Development: Responsible for configuring and developing the interface and tools used by CTDOT employees and consultants in Microstation.
- Microstation Support: Responsible for supporting all Microstation tasks, which includes 3-D modeling, 2-D drafting, and contract plan production.
- Authored the following workflows: Digital Project Development Manual that details how to submit, prepare, and manage contract documents in Projectwise, Digital Review Manual, Digital As-Built Manual, Shop Drawings, Microstation Detailing.
- Taught classes for the following CTDOT Processes: Microstation Detailing (automated method), Microstation Publishing PDF, Projectwise for the Processing unit, and Digital Project Development processes.
- Created a highly detailed animation for the Connecticut State Police using Microstation.
- Provide technology support for conference room 3130 and planning's conference room.
- Provided technical support and general organization for Jim Norman's Tourist Signing Task Force
- Helped plan and provided support for NASTO 2011, Mystic CT
- Attended the Bentley BE Together Conference in Philadelphia PA in 2011 and 2012, where I attended training classes and lectures pertaining to Bentley's software.

<ul> <li>Transportation Engineering II, Bridge Design Unit, Connecticut Department of Transportation, Newington CT</li> <li>Prepared plans and estimate for a box culvert, Portland CT</li> <li>Prepared plans, calculations, and estimates for a (2) retaining walls, Washington CT</li> <li>Prepared Gusset Plate Analysis for (10) truss bridges in the state of Connecticut as required by the FHWA due to the Minneapolis bridge collapse.</li> <li>Prepared plans and estimates for replacement of bridge joints for the Baldwin Bridge.</li> <li>Prepared plans for Connecticut DOT District IV Replacement of Bridge Deck Joints.</li> <li>Prepared plans and calculations for the Avon Mountain truck runaway ramp, Avon CT.</li> <li>Prepared plans for a box culvert, Middlebury CT.</li> <li>Prepared cost estimate and quantities for box culvert, Middlebury CT.</li> <li>Reviewed shop drawings for bridge no. 01664, Norwalk CT.</li> <li>Prepared and reviewed special provisions for various projects.</li> </ul>	5/2007- 5/2010
<ul> <li>Engineering Intern, Electric Boat, Groton CT</li> <li>Reviewed technical manuals prepared by Engineers for the submarine's crew.</li> <li>Prepared repair procedures for components of a submarine including various valves and pumps.</li> <li>Organized the completion of various repairs which included working with the different trades of the shipyard.</li> </ul>	Summers and Winters of 2002- 2005