

**NEVADA STATE BOARD OF
PROFESSIONAL ENGINEERS
AND
LAND SURVEYORS**



**Regular Board Meeting
January 24, 2024
Las Vegas, NV**

1. Meeting Call to Order

2. Pledge of Allegiance

3. Public Comment

4. Introductions

5. NRS 625

Waiver Requests

WAIVER REQUESTS
Wednesday, January 24, 2024

APPLICANTS REQUESTING WAIVER OF NRS 625.183(4)(B)			
NAME	DISCIPLINE	TO:	GRANT?
1. Jesse Reek	EE	Karen Purcell, PE	
2. John DeWolff	ENVE	Robert Fyda, PE	
<i>NRS 625.183, item 4, part b, "Two of the 4 years of active experience must have been completed by working under the direct supervision of a professional engineer who is licensed in the discipline in which the applicant is applying for licensure...."</i>			

APPLICANTS REQUESTING WAIVER OF NRS 625.390(2)(A)			
NAME	DISCIPLINE	TO:	GRANT?
1. John DeWolff	ENVE	Robert Fyda, PE	
<i>NRS 625.390, item 2, part a, "Applying for licensure as a professional engineer, the persons named as references must be professional engineers licensed in this State or any other state, three of whom must be licensed in the same discipline of engineering for which the applicant is applying for licensure."</i>			

6. Non-Appearence Applications for Initial Licensure

**NEVADA STATE BOARD OF PROFESSIONAL
ENGINEERS AND LAND SURVEYORS
EDUCATION CREDIT GUIDELINES**

DEGREE	YEARS CREDIT (MAX)	YEARS ACCEPTABLE EXPERIENCE REQUIRED
Undergraduate (BS): ABET/EAC accredited	4	4
Undergraduate (BS): ABET/ETAC accredited	4	4
Undergraduate (BS Engineering): Washington Accord	4	4
Undergraduate (BS Engineering): Non-ABET/non-Washington Accord (must meet NCEES education standard, any deficiencies to be considered by board)	4	4
Undergraduate (BS Construction Management): ABET accredited	4	4
Undergraduate (BS Construction Management): Not ABET accredited but institution has ABET accredited engineering programs	4	4
Engineering Masters: US Masters with non-US BS and/or non-Washington Accord in Engineering	6	2
Engineering Doctorate: US Doctorate with non-ABET/non-Washington Accord/foreign BS+MS in Engineering	6	2

**NEVADA STATE BOARD OF
PROFESSIONAL LAND SURVEYORS
EDUCATION CREDIT GUIDELINES**

DEGREE	YEARS CREDIT (MAX)	YEARS ACCEPTABLE EXPERIENCE REQUIRED
Undergraduate (BS Surveying): ABET/EAC accredited	4	4
Undergraduate (BS Surveying): ABET/ETAC accredited	4	4
Undergraduate (BS Surveying): ABET/ANSAC accredited	4	4
Undergraduate (BS Surveying): non-accredited	4	4
Surveying Associates Degree + another associates degree	4	4
Surveying Masters Degree	2	2
Engineering degree with a minimum 30 surveying credits hours (must include a PLSS course)	4	4
Non-Engineering Bachelor of Science degree with a minimum 30 surveying credit hours (must include a PLSS course)	4	4
Bachelor of Arts degree with a minimum 30 surveying credits hours (must include a PLSS course)	4	4
Bachelor of Arts degree + Surveying Associates Degree	4	4
Military Specialty in Surveying + Surveying Associates Degree	4	4


Civil

DIANA BUGARIN VILLEGAS (19-231-04)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/14/2023

Citizenship
United States

SUMMARY






Engineering Experience after EAC degree
3 years, 1 month

Total Engineering Experience
3 years, 1 month

Experience under licensed engineer
3 years, 1 month

Disciplinary Action
None reported




EDUCATION



Bachelors in Civil Engineering (EAC)
California State University, Sacramento
August 2015–May 2019

Masters in Civil and Environmental Engineering
Stanford University
August 2019–September 2020

EXAMS



Fundamentals of Engineering (FE)
California
August 2018

Principles and Practice of Engineering (PE)
Civil
California
October 2023

LICENSES



Additional Licenses
None

DIANA BUGARIN VILLEGAS (19-231-04)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Brand Shared Services LLC
Georgia (United States)
Engineer I
November 2020—December 2023

Verified by
tariq Popal
tpopal@brandsafway.com

Experience Summary
Full-Time
Engineering: 3 years, 1 month
Post EAC degree: 3 years, 1 month
Experience under licensed engineer:
3 years, 1 month



TASKS

Design of scaffolding, shoring, motorized personnel and material hoist, and suspended access systems. Design responsibilities include drafting engineered drawings and calculations. Engineered drawings are produced using Revit, AutoCAD, and Navisworks. Calculations are developed using programs such as TEKLA Tedds, RISA, Hilti Profis and design codes ASCE 7-16 and ASCE 37-14. Project management of various ongoing projects. Project management includes answering questions from our sales team/scaffold erectors as well as our customers. Additionally, project management includes providing solutions for unforeseen onsite conditions and scope of work changes. Project site visits of various ongoing projects. Site visits include inspecting scaffold for accuracy when compared to engineered drawings.



REPRESENTATIVE PROJECTS

Project Name: Arrow Rock Dam, Project Location: Boise, ID. Project Date: 11/24/2020

I designed a suspended scaffold to provide access for work on the face of a dam. The scaffold was 74' tall, 12' wide, and 22' long. I calculated the required beam size and counterweight to support the suspended scaffold. I recommended a tie detail to attach the scaffold to the existing dam, for lateral support and 4:1 height to base ratio tie-in as required by OSHA.

Project Name: Whole Foods, Project Location: Los Angeles, CA. Project Date: 12/2/2020

I designed shoring with Adjust-A-Shore frame, to support the existing structural beams, walls, and columns, of a Whole Foods grocery store as demolition and repairs were being performed. The shoring was 10' tall, with 2' wide by 7' long typical bays, and 4' wide by 4' long typical bays. I calculated the beam size and bay spacing required for the provided structural loads.

Project Name: Rainier Club, Project Location: Seattle, WA. Project Date: 04/06/2021

I designed a pedestrian canopy and access scaffold, for work to be performed on the façade of the building. The pedestrian canopy was 23' tall, 10' wide, and 84' long. The access scaffold was 37' tall, 3.5' wide and 84' long. I calculated the required bay spacing for the work rating required and capacity of the scaffold legs. I calculated the wind loading on the tie-in, per ASCE 7-16. I recommended a tie detail to attach the scaffold to the existing building, for lateral support and 4:1 height to base ratio tie-in as required by OSHA.

Project Name: Scripps La Jolla Tower II, Project Location: La Jolla, CA. Project Date: 07/26/2021

I designed a material hoist, loading platform, and stair tower for material and personnel access to a building during construction. The material hoist was 103' tall. The scaffold stair tower and loading platform were 103' tall, 13' wide, and 30' long. I recommended a hoist tie-in location based on the existing floor levels of the building. I designed a wood cribbing to distribute the load of the hoist to a required maximum bearing capacity. I calculated the tie in force on the existing building due to wind loading, based on ASCE 7-16. I designed the material hoist, loading platform, and stair towers for a project duration of 6 weeks to 1 year.

Project Name: 791 Lincoln, Project Location: Benicia, CA. Project Date: 02/01/2022

I designed a stair tower, loading platform, and pedestrian canopy for access and material storage for a building during construction. The scaffold was 42' tall, 30' long, and 19' wide. I calculated the max. bay spacing allowable for the loads provided for the loading platform. I additionally calculated the leg load to ensure compliance with the leg capacity of the scaffold. I recommended a total number of workers allowed on the stair tower, based on the individual capacity of all the scaffold components.

Project Name: Union City Bridge Engineering, Project Location: Union City, CA. Project Date: 12/29/2022

I designed a suspended platform, underneath the Union City Bridge, using Quickdeck. I calculated the maximum spacing of the suspension locations based on the capacity of the chain. I calculated the load on the longitudinal and transverse wind restraint chains due to wind loading, based on ASCE 7-16. I designed the suspended platform for a project duration of 6 weeks to 1 year. I

recommended the best location to attach the suspension and wind restraint chains for constructability and capacity of the platform, and the location of the uplift restraints. I recommended an attachment method to the existing bridge, and additionally calculated the loads to the structure from the platform and the uplift restraints.

Project Name: The EXPO 2023 PA Bridge, Project Location: Portland, OR. Project Date: 04/18/2023


I designed a scaffold platform for pedestrian access over a ditch. The purpose of the platform was to provide access from a parking lot to a fair ground sight. I calculated the maximum bay spacing allowed for the required pedestrian access live load of 100 psf. per the IBC. I calculated the overturning moment based on the wind load, per ASCE 7-16. I designed the suspended platform for a project duration of 6 weeks to 1 year.

DYLAN CAREY (20-616-36)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/18/2023

Citizenship
United States

SUMMARY






Engineering Experience after EAC degree
2 years

Total Engineering Experience
2 years

Experience under licensed engineer
2 years

Disciplinary Action
None reported




EDUCATION



Bachelors in Environmental Engineering (EAC)
University of Nevada, Reno
August 2016–May 2020

Masters in Civil and Environmental Engineering
University of Nevada, Reno
August 2020–December 2021

EXAMS



Fundamentals of Engineering (FE)
Nevada
October 2019

Principles and Practice of Engineering (PE)
Civil
Nevada
August 2022

LICENSES



Additional Licenses
None

WORK EXPERIENCE

Keller Associates, Inc.
Nevada (United States)
Project Engineer
December 2021 – December 2023

Verified by
Jeremy Wilson
jwilson@kellerassociates.com

Experience Summary
Full-Time
Engineering: 2 years
Post EAC degree: 2 years
Experience under licensed engineer:
2 years



TASKS

I am a project engineer in the water/wastewater group for Keller Associates, Inc., a civil engineering consulting firm. I am part of planning and design teams for projects including drinking water treatment, wastewater treatment, drinking water distribution systems, water storage facilities, drinking water wells, and wastewater collection systems.

I began a full-time position with Keller on December 15th, 2021, following my graduation from my graduate program on December 9th, 2021. For two years, I have drafted planning and feasibility studies, written sampling plans and performed results analysis for water quality and a solids handling pilot study, performed hydraulic model creation using ArcGIS and WaterCAD softwares, calculated water and wastewater treatment process parameters, calculated hydraulic capacity and grades, developed cost estimates for planning and design stages, and drafted civil plan sets and technical specifications for design projects. I have responded to submittals, requests for information, and change orders, for water treatment plant construction projects, as well as performed substantial and final completion inspections. I have also been involved in developing project fees, estimates, and schedules for project contracting and scoping.

Throughout my experience with Keller, I have been a project engineer with the title EI. My job responsibilities have been consistent throughout this time, with more challenging tasks such as hydraulic model creation being assigned to me as my experience has grown.



REPRESENTATIVE PROJECTS

Truckee Meadows Water Reclamation Facility Odor Control Pilot Study
February 2022 to August 2022

I worked as a project engineer that provided a sampling plan and pilot study results report for a solids oxidation pilot system at a wastewater treatment facility. I conducted on-site sampling, pilot operating scenarios solids, a comparison of pilot system performance data to dewatering goals and NPDES permit requirements, a cost estimate for alternative improvements, and a recommendation for future improvements to the solids handling system.

Carson City Upper Clear Creek Sewer Feasibility Study
July 2022 to August 2023

I worked with a wastewater design team to write a feasibility study report for the removal and replacement of 20,500 feet of gravity sewer main. I collected NRCS soils and geotechnical data, reviewed record drawings and hydraulic model output data using ArcGIS, performed hydraulic capacity calculations, and compared the costs and feasibility of open cut trenching versus trenchless methods of construction.

Amador Water Agency Disinfection Byproduct Study
November 2022 to On Going

I worked with a water treatment design team to write a planning study that provided recommendations to a water agency to mitigate disinfection byproduct maximum contaminant level exceedances. I analyzed water quality and flow parameters, summarized treatment plant facilities and distribution system operations, drafted a unidirectional flushing protocol, and created planning level designs and cost estimates for storage tank mixing and chlorine boosting station alternatives.

Emmett Water Storage Tank Design
February 2022 to June 2022

I worked with a design team to create a plans, specifications, and cost estimate for the design of a new above-ground drinking water storage tank and pressure relief station. I performed storm water calculations, cut and fill calculations, site civil design using bluebeam and AutoCAD software, cost estimates for proposed facilities, code references for water-storm separation and water

main design, valving and coupling equipment technical specifications, and construction technical specifications.

Bear Lake West HOA Water Facility Planning Study

March 2023 to October 2023

I worked with a planning team to create a 20-year water facility planning study for an existing water system serving approximately 350 connections. I performed demand estimate and population projection calculations, made applicable code references to fire demand and pressure requirements, created a hydraulic model using ArcGIS and WaterCAD model the existing and future demand scenarios, and made capital improvement recommendations to help the system meet requirements for compliance with applicable code.

City of Sparks G Street Sewer Improvements

March 2023 to October 2023


I worked with a wastewater design team to draft plans and technical specifications for the removal and replacement of 850 linear feet of gravity sewer main. I performed vertical and horizontal design, coordinated the design with the drafting team, written technical specifications for bypass pumping, traffic control, and other appurtenances, and provided cost estimates for Final Design.

TMWA SC 10 Well Design

June 2023 to On Going

I worked with a design team to draft plans, specifications, and cost estimates for a new 600 gpm well facility with discharge to the distribution system, well recharge injection, pump to waste, and chemical injection. I performed hydraulic capacity calculations for a pump-to-waste system, hydraulic calculations for pipe sizing and headloss, pump sizing and equipment selection, and drafting using Bluebeam and AutoCAD softwares.

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/14/2023

Citizenship
United States

SUMMARY





Engineering Experience after EAC degree

Total Engineering Experience
2 years

Experience under licensed engineer
2 years

Other Experience
6 years

Disciplinary Action **None reported**




EDUCATION



Bachelors in Environmental Science
University of Redlands
September 2009–May 2013

Masters in Civil and Environmental Engineering
University of Nevada, Reno
August 2019–December 2021

EXAMS



Fundamentals of Engineering (FE)
Nevada
August 2021

Principles and Practice of Engineering (PE)
Civil
Nevada
March 2023

LICENSES



Additional Licenses
None

AIMEE DEWAN (20-612-75)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

University of Colorado at Boulder
Colorado (United States)
Research Assistant
June 2013—October 2013

Verified by

Experience Summary
Full-Time
Other: 4 months
Experience under licensed surveyor:
None



DESCRIPTION

AIMEE DEWAN (20-612-75)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Palisades Tahoe
California (United States)
Lift Operator
November 2013—May 2014

Verified by

Experience Summary
Full-Time
Other: 6 months
Experience under licensed surveyor:
None



DESCRIPTION

AIMEE DEWAN (20-612-75)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Fireside Cafe
California (United States)
Waitress
May 2014—July 2015

Verified by

Experience Summary
Full-Time
Other: 1 year, 2 months
Experience under licensed surveyor:
None



DESCRIPTION

AIMEE DEWAN (20-612-75)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

West Shore Cafe
California (United States)
Waitress
July 2015—July 2016

Verified by

Experience Summary
Full-Time
Other: 1 year
Experience under licensed surveyor:
None



DESCRIPTION

WORK EXPERIENCE

34 North

California (United States)

Data Coordinator

August 2016—August 2019

Verified by

Experience Summary

Full-Time

Other: 3 years

Experience under licensed surveyor:

None



DESCRIPTION

WORK EXPERIENCE

Keller Associates, Inc.
Nevada (United States)
Project Engineer
January 2022—January 2024

Verified by
Jeremy Wilson
jwilson@kellerassociates.com

Experience Summary
Full-Time
Engineering: 2 years
Experience under licensed engineer:
2 years



TASKS

I have worked as a project engineer in the civil and environmental field since January 2022 at Keller Associates. I worked under experienced PEs throughout my time, and have developed from a project assistant in my first year, and in my second year I have acted as the lead engineer. In my first year, I was responsible for developing multiple planning studies and assisting in the design of several water and wastewater projects. I was responsible for developing reports from start to finish, with review from a supervisor, as well as assisting the lead designer in calculations and layouts. I have advanced from the supporting engineer to the lead design engineer on multiple design projects. I am responsible for providing technical and design strategies on projects, as well as leading teams to complete infrastructure and treatment designs. In these roles I have taken design projects from start to finish as the civil and process engineer which involved designing the civil sheets, mechanical sheets, and process design. In addition to being the lead in my own discipline, I have led a design team with other disciplines to complete a full plan set. I have worked to learn and understand the design process of both structural and electrical engineering to progress myself into the role of a project design lead. I have gained experience in construction engineering, where my responsibilities have been reviewing submittals and providing feedback to the contractor for the optimal construction of the design.



REPRESENTATIVE PROJECTS

Mountain Home Wastewater Facility Planning Study
Evaluation of a wastewater treatment facility - Mountain Home, Idaho

01/2022-07/2023

I helped develop a wastewater FPS for a 1.5 MGD treatment plant. I performed population and flow projections, assessment of volume capacities for a lagoon system, and calculations to assess the existing treatment. I performed preliminary sizing and assessment of new secondary treatment processes (aeration, oxidation ditch, and membrane bioreactors), disinfection (UV and chlorination), and solids handling (dewatering). I completed cost estimates and capital improvement plans.

North Lake Wastewater FPS
Donnelly, Idaho

03/2022-08/2023

I helped develop of a wastewater FPS for a 1 MGD treatment plant. I did the process calculations to assess the existing treatment capacity. I analyzed new coagulation strategies for phosphorus removal, sludge dewatering, and disposal methods. I completed cost estimates and capital improvement plans.

Bellevue Wastewater FPS
Bellevue, Idaho

04/2022-05/2023

I led the development of a wastewater FPS for a 0.5 MGD treatment plant. I performed process calculations for each existing treatment process, and assessment for new processes. I performed preliminary design of a new headworks building, solids dewatering, chlorine disinfection, and disposal methods. I completed cost estimates and capital improvement plans.

Paul Wastewater FPS
Paul, Idaho

05/2022-06/2023

I led the development of a wastewater FPS for a 0.5 MGD treatment plant. I assessed the volume and treatment capacities. I performed preliminary design of a new lagoon, chlorine disinfection, and disposal methods. I completed cost estimates and capital improvement plans.

7th St Booster Station

Design of a booster pump station, pressure regulation station, and 1,000 feet of water mains- Reno, Nevada.

06/2022-current

I assisted in the civil and mechanical design of a 2,800 gpm BPS. I designed the mechanical layout for the BPS and pressure regulation station, pumps, and site layout. I completed the hydraulic analysis for the system piping. I helped design the plan and profile of the new water mains. I helped develop the technical specifications, construction sequencing plans, and currently aiding in construction engineering support.

Copper Cove

Design of a tertiary treatment facility- Copperopolis, California.

08/2022-12/2022

I assisted in the design of tertiary treatment for a wastewater facility. I wrote an engineering report that analyzed different filtration, UV disinfection and dissolved air flotation technologies. I designed the site layout and mechanical process.

Ashton Headworks

Design of a headworks building with influent screens, aeration, and evaporation- Ashton, Idaho

03/2023-current

I have led the design for a 1.5 MGD wastewater treatment plant. I designed the following components: site and civil design; gravity sewer pipe; bar screen and channels; pump and piping to deliver wash water; aeration process and layout; and evaporation process and layout for the storage lagoon.

La Mel BPS

Booster pump station and chemical treatment design- Volcano Heights, California

10/2022-Current

I led the preliminary design of a new 160gpm booster pump station. I performed analysis of pump selection, piping layout and incorporation with chemical treatment.

Talus Valley BPS

Booster pump station- Reno, Nevada

09/2023-Current

I am leading the civil and mechanical design for a 4000gpm booster pump station. I performed calculations to size and configure the mechanical layout according to HI standards. I designed a preliminary site and mechanical layout.

PSOM Generators

Feasibility and design of generators- Reno, Nevada

03/2023-Current

I led the development of a technical memorandum to analyze the feasibility of including generators at booster stations across Reno. I performed the site/civil assessment for each location and designed preliminary site layout sheets. I am designing civil/site layouts and grading.

Sludge Screening and Digestion System

Design of primary sludge screens and assessment of the piping in a digestion system- Reno, Nevada

07/2023-Current

I assessed the primary sludge screening facility and different technologies to upgrade the existing screens. I led the development of a technical memorandum that presented calculations for existing and future sludge flows, a hydraulic analysis, analysis of the current pumping system to meet future needs, and recommendation for replacements. I analyzed the pipe network for digestion and presented recommendations for piping and valving upgrades based on a hydraulic assessment and failure points. I am leading the mechanical design for installing new screens and piping. I am leading the design to install new pipes and valves in the digestion building.

MARSHAL HOFFMAN (20-523-27)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
01/03/2024

Citizenship
United States

SUMMARY







Engineering Experience
after EAC degree
4 years

Total Engineering
Experience
4 years

Experience under licensed
engineer
4 years

Disciplinary Action
None reported




EDUCATION



Bachelors in Civil Engineering (EAC)
Cornell University
August 2015–August 2019

EXAMS



Fundamentals of Engineering (FE)
Maryland PE
November 2019

Principles and Practice of Engineering (PE)
Civil
Nevada
December 2022



LICENSES



Additional Licenses
None

MARSHAL HOFFMAN (20-523-27)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Clark Construction
Maryland (United States)
Engineer

August 2019—September 2020

Verified by
Marlion Todd McQuinn
todd.mcquinn@clarkconstruction.com

Experience Summary
Full-Time
Engineering: 1 year, 1 month
Post EAC degree: 1 year, 1 month
Experience under licensed engineer:
1 year, 1 month



TASKS

During my engagement with Clark Construction, I held two distinct roles, initially starting as an Estimator in the Bethesda office and later transitioning to the position of Field Engineer in the field. As an Estimator, a significant portion of my responsibilities revolved around analyzing and assessing engineering documents. This involved carefully reviewing and evaluating the technical aspects of the project, including drawings and specifications.

A crucial duty I fulfilled as an Estimator was to measure and quantify specific scopes of work. This involved meticulously identifying the various components and elements required for the project, determining their quantities, and estimating the associated costs. Furthermore, I played an active role in engaging with Subcontractors to discuss constructability issues, cost considerations, and any other notable factors related to the project. These interactions allowed for collaboration and the gathering of valuable insights from experts in the field.

As I transitioned to the role of Field Engineer, my responsibilities shifted towards overseeing the execution of the project on-site. In this capacity, I continued to utilize my expertise in reviewing engineering documents, such as drawings and specifications, to assess Submittals, Requests for Information (RFIs), and other forms of documentation. This enabled me to ensure that the construction process aligned with the project requirements and adhered to the necessary standards and regulations.

Another crucial aspect of my role as a Field Engineer was leading site inspections. I conducted thorough examinations of the construction site to ensure that the work performed met the established standards and specifications. I also took on the responsibility of approving the completed work, ensuring its quality and compliance with the project's objectives.



REPRESENTATIVE PROJECTS

During my tenure as an estimator at Clark Construction, I had the opportunity to work on several notable projects, including the WMATA Rehab Phase 2, a PEPCO Substation, the BWI Terminal Expansion, and WMATA Silver Line Extension. These projects provided me with progressive experience and allowed me to contribute to various stages of project design, implementation, and operation.

One of the projects I was involved in was the WMATA Rehab Phase 2. My first assigned scope was Bird Control. The provided specifications required a very particular product, and through my investigation, I found that nearly no vendors provided a satisfactory product. Therefore, when I did find proposed vendors, I meticulously reviewed the drawings and specifications to ensure compliance and accuracy. By closely examining the project's documentation, I could accurately estimate the costs and determine the necessary materials and techniques for successful bird control implementation.

In the estimation process for both the PEPCO Substation and the BWI Terminal Expansion, I took on more complex scopes of work, including Concrete, Plumbing, and Glazing. These projects presented additional challenges that demanded a thorough understanding of the engineering drawings and specifications. As an estimator, my role was to carefully assess the requirements outlined in the documentation and accurately quantify the associated costs. This involved analyzing the intricacies of the projects, such as electrical systems for the substation or terminal expansion plans for the airport, to estimate the resources needed.

In the course of estimating these projects, I encountered situations where further clarification was required. To address such matters, I took the initiative to create Requests for Information (RFIs) to obtain the necessary responses from the Engineer of Record. RFIs served as a means of seeking clarification on design elements, construction techniques, or any other aspects that required more information for accurate estimation. By actively engaging in this process, I ensured that potential discrepancies or ambiguities were addressed, leading to more precise estimations and smoother project execution.

My involvement in project design, implementation, and operation primarily revolved around the estimation phase. However, as an estimator, I played a crucial role in influencing the project's direction by providing accurate cost projections and material requirements. This information not only influenced the budgeting and financial aspects of the project but also impacted the overall planning, schedule, and decision-making processes.

By meticulously reviewing the engineering drawings and specifications, I was able to identify potential risks, challenges, and opportunities associated with the projects. This information was valuable in determining the feasibility of certain design elements, assessing constructability concerns, and providing input during the project's planning phase.

Once I transitioned to operating as a Field Engineer for the WMATA Silver Line Extension project, my role and responsibilities grew tremendously. I was primarily responsible for managing the subcontractor who was performing the 'Systems' scope of work, which if not properly performed could have led to train derailments, collisions, and severe damage to property and life. Knowing this, I diligently inspected the contractor's work, verified it satisfied the contractual requirements, and consistently communicated between the subcontractor, Clark Construction, the Engineer of Record, as well as the Owner.

In summary, my progressive experience as an estimator at Clark Construction encompassed a range of projects, from relatively simple scopes of work to more complex endeavors. Through my role in project design, implementation, and operation, I actively engaged in reviewing drawings and specifications, estimating costs, and creating RFIs for clarification. My contributions as an estimator influenced the project's direction by providing accurate estimations, identifying potential challenges, and offering valuable insights during the planning and decision-making processes.

WORK EXPERIENCE

Walsh Construction
Virginia (United States)
Estimator
September 2020—June 2022

Verified by
James Auer
jauer@walshgroup.com

Experience Summary
Full-Time
Engineering: 1 year, 9 months
Post EAC degree: 1 year, 9 months
Experience under licensed engineer:
1 year, 9 months



TASKS

During my employment with Walsh, my primary responsibility was estimating a wide range of scopes across various vertical projects. These projects encompassed both private and public sectors, with values ranging from \$1 million to \$250 million. Notably, I had the privilege of working with high-profile clients such as the United States Supreme Court, the Library of Congress, and the Architect of the Capitol.

As an estimator, I worked independently on some projects by carefully analyzing the project requirements, reviewing drawings and specifications, accurately quantifying the scopes, and interpreting the associated costs. This involved a meticulous examination of the project scope and understanding the intricacies of each component to ensure accurate estimations. I also worked as part of a larger team, collaborating with colleagues to collectively estimate complex projects. This required effective communication and coordination to ensure consistency and accuracy throughout the estimation process.

One of the key aspects of my role was balancing multiple projects simultaneously. Juggling multiple projects demanded effective time management, organization, and attention to detail. I successfully prioritized tasks which ensured that each project received the necessary attention and effort to deliver accurate and timely estimates.

I also took on the additional role of training new team members. Recognizing the growth of our group, I proactively took the initiative to mentor and guide individuals with no prior estimating experience. I provided comprehensive training by sharing my knowledge and expertise to help them become reliable and proficient members of our team.

Lastly, I consistently communicated between our team, the owner, various subcontractors, and the designer. I led meetings, reviewed submittals, generated RFIs, and carefully analyzed all project documents to catch any possible mistakes before they manifested into larger issues.



REPRESENTATIVE PROJECTS

During my tenure with Walsh, I gained progressive experience through involvement in a wide range of projects, spanning various stages of design, implementation, and operation. As I grew more experienced, my role expanded and became more integral to each project's success.

In the early stages of Preconstruction, I played a significant role in projects such as Boro B1/B2, Monarch, and others. At approximately 15% design drawings, I reviewed proposed floor plans, focusing on optimizing floorplate efficiency to maximize the property's value. This involved analyzing the layout, suggesting modifications to the client and architect, and generating alternative floorplate configurations to achieve the most efficient and cost-effective design.

For projects in later stages of conceptual development, including MCC3 Life Sciences and Olin Limestone Bridges Park, I was involved in quantifying materials for various scopes of work. Additionally, I identified issues the owner may have missed that could have hindered the project if left to cause issues in later stages of development. This included considering factors like emergency vehicle access, compliance with ADA requirements, and other crucial considerations that might have been overlooked. By addressing these issues proactively, I contributed to the project's success and mitigated potential challenges during implementation.

Another category of projects involved fully designed projects that our team was bidding on. Examples of such projects were the Architect of the Capitol (AOC) Thomas Jefferson Building Renovation, AOC Supreme Court Courtyards Renovation, AOC Unwalkable Tunnels Repair, AOC Feedwater, Urby Navy Yard, Quantico Wargaming Building, and more. In these cases, my responsibilities were extensive. I reviewed drawings, generated Requests for Information (RFIs), quantified materials, contacted

subcontractors to acquire pricing, and calculated associated costs for my assigned scopes of work. I also played a crucial role in creating the proposed project schedule, ensuring that the timeline aligned with the client's expectations and overall project goals. In almost all of these projects, I was working as part of a larger team dividing the work, however notably in the case of AOC Unwalkable Tunnels, I estimated the entirety. I presented my work to executives of the company, and once approved, we submitted our bid, won, and found the estimate to have not only been competitive enough to win, but also profitable as the project progressed.

Furthermore, I had the opportunity to work on projects where Walsh was contracted throughout the design process. During these projects, I was responsible for collaborating closely with designers, clients, consultants, subcontractors, and our own team. Two notable examples of such projects were the Four Seasons Private Residences and Quantico Traffic Circle. For the entirety of my employment, I actively participated in these projects. I consistently reviewed drawings that were being updated or modified, carefully identifying constructability issues and errors. Through close collaboration with the designers, I offered valuable insights and worked towards overcoming various unique constraints affecting the projects.

In summary, my progressive experience at Walsh involved diverse project types and stages, showcasing my involvement in project design, implementation, and operation. From early-stage preconstruction to ongoing construction, my contributions were vital to each project's success. In bidding projects, I took on extensive responsibilities, including estimating costs, generating RFIs, and creating project schedules. Additionally, I actively participated in projects where Walsh was contracted throughout the design process, collaborating closely with designers and addressing various constraints. Overall, my role evolved and deepened as I gained experience, allowing me to make substantial contributions across multiple project phases.

MARSHAL HOFFMAN (20-523-27)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Plano-Coudon
Maryland (United States)
Preconstruction Manager
July 2022—October 2022

Verified by
Marshal Hoffman (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

As a Preconstruction Manager, I held a crucial role in the early stages of construction projects. My responsibilities encompassed a wide range of tasks and duties aimed at preparing and establishing a solid foundation for successful project execution. I collaborated closely with clients, architects, and engineers to assess project requirements, goals, and constraints. Through thorough site evaluations and analysis of existing conditions, I identified potential challenges and opportunities. Estimating project costs was a significant part of my role, involving a detailed analysis of project drawings, specifications, and other relevant documents to accurately quantify material, labor, equipment, and subcontractor costs. Value engineering exercises were conducted to enhance project value without compromising quality, identifying cost-saving alternatives and proposing efficient construction methods. I also conducted constructability reviews to ensure practical and feasible designs, working closely with design teams to address conflicts and mitigate risks. Managing subcontractors involved issuing requests for proposals, evaluating bids, and negotiating contracts with qualified subcontractors aligned with project objectives. I conducted risk assessments, developed mitigation strategies, and prepared comprehensive proposal documents, including bid packages and cost breakdowns. Maintaining strong communication with clients, I provided regular updates, addressed concerns promptly, and fostered positive relationships. Collaboration with the project management team, architects, engineers, and other stakeholders ensured effective coordination and integration of design and construction elements. Continuous improvement was a priority as I sought professional development opportunities and stayed updated on industry trends and best practices. Overall, as a Preconstruction Manager, my role was instrumental in setting the stage for successful project outcomes through meticulous planning, budgeting, collaboration, and risk management.



REPRESENTATIVE PROJECTS

During my time as Preconstruction Manager, I have gained progressive experience working on a diverse range of projects, including senior living facilities and warehouse-sized veterinary clinics. In each project, I played a vital role in project design, implementation, and operation, contributing to their successful outcomes.

In the realm of senior living projects, I have been involved in multiple developments at various stages. During the design phase, I collaborated closely with architects, engineers, and the client to translate their vision into a feasible and functional design. I participated in design charrettes and provided valuable input to ensure the design aligned with the project goals and budget. Additionally, I was pivotal in advising the owner in how they can better balance the project in earthwork cut and fill. My role also included conducting thorough constructability reviews, identifying potential design conflicts, and proposing solutions to optimize efficiency and quality.

As the project progressed to implementation, I actively managed the preconstruction process. I worked closely with subcontractors, issuing bid packages, evaluating proposals, and negotiating contracts. My attention to detail and extensive knowledge of the industry allowed me to select the most qualified subcontractors while ensuring adherence to the project schedule and budget. I facilitated effective communication between the design team, subcontractors, and the client, ensuring seamless coordination throughout the construction phase.

Moreover, my role extended to overseeing project operations. I collaborated with the project management team to address any emerging challenges during the construction phase, providing value engineering suggestions to enhance the project's overall value. I closely monitored the progress of construction activities, ensuring compliance with design specifications, quality standards, and safety regulations. I also worked closely with the client to keep them informed about project milestones and promptly address any concerns, fostering a strong and trusting relationship.

In addition to senior living projects, I have also worked on warehouse-sized veterinary clinics, which presented unique challenges and requirements. During the design phase, I collaborated extensively with veterinarians, architects, and equipment suppliers to create a functional and efficient layout. I reviewed design drawings, ensuring proper spacing, ventilation, and utility placement to

accommodate the clinic's specific needs.

During the implementation phase, I managed the preconstruction process with meticulous attention to detail. I coordinated with subcontractors specializing in veterinary clinic construction, ensuring their expertise aligned with the project requirements. I facilitated value engineering sessions to identify cost-effective alternatives without compromising quality or functionality. Throughout construction, I supervised the project closely, addressing constructability issues, managing the procurement of specialized equipment, and ensuring compliance with regulatory requirements.

As a Preconstruction Manager, my role was not limited to design and implementation but extended into project operations. I collaborated closely with veterinarians and clinic staff to understand their workflows, ensuring the facility's design optimized operational efficiency and animal care. I conducted regular site visits to ensure construction activities aligned with the project plans and quality standards. I also maintained open lines of communication with the client, providing regular updates on project progress and addressing any concerns promptly.

In summary, my progressive experience as a Preconstruction Manager on senior living and warehouse-sized veterinary clinic projects has allowed me to contribute significantly to project design, implementation, and operation. From collaborating on design and constructability reviews to managing subcontractors, overseeing project operations, and maintaining strong client relationships, I have played a pivotal role in delivering successful projects. With a keen eye for detail, effective communication skills, and a focus on client satisfaction, I am confident in my ability to drive the success of future projects in the field of preconstruction management.

WORK EXPERIENCE

DOWL
Nevada (United States)
Construction Project Manager
November 2022—January 2024

Verified by
Jared Lee Trowbridge
JLTrowbridge@dowl.com

Experience Summary
Full-Time
Engineering: 1 year, 2 months
Post EAC degree: 1 year, 2 months
Experience under licensed engineer:
1 year, 2 months



TASKS

As a Construction Project Manager, my role centralized on three key engineering responsibilities to ensure successful project completion.

One of my primary duties was the comprehensive review of submittals and RFIs. I meticulously examined project documents, specifications, and drawings to assess the compliance of submitted materials with established standards. This process required a keen attention to detail and the ability to identify potential issues early on, facilitating a proactive approach to problem-solving. When submittals failed to meet specifications, I investigated whether they would still suit the purposes of the project, and/or identified the areas where the submittals failed to meet specifications. In reviewing RFI's, I reviewed the project's drawings and specifications to formulate a well written and conclusive response that the contractor could act upon.

Addressing issues in the field was a crucial component of my role. I actively engaged with the construction team on-site to assess challenges, resolve unforeseen issues, and ensure that the project adhered to timelines and quality standards. This involved making quick, informed decisions and collaborating closely with subcontractors to implement effective solutions.

In addition to the aforementioned responsibilities, I was actively involved in the development and management of project budgets and schedules. This required a strategic approach to resource allocation, risk mitigation, and the ability to adapt to evolving project dynamics. This process was not only vital in the Preconstruction process, but as our budget became thinner, I would continuously review and update our budget tracking in conjunction with the expect completion of the project.

Overall, my role as a Construction Project Manager demanded an engineering-focused skill-set, that primarily revolved around RFI/Submittal review, resolving constructability issues in the field, and lastly budget and schedule tracking and maintenance. Overall, I would consider 100% of my experience as Construction Project Manager to qualify as engineering experience.



REPRESENTATIVE PROJECTS

Throughout my career as a Construction Project Manager, I have accumulated progressive experience by actively contributing to diverse projects that have showcased my abilities in project design, implementation, and operation. Three notable projects in my portfolio are the NNCC Sewer Replacement, Sydney Tesla Line, and Rolling A WWTF Phase 4 Expansion, all of which presented unique challenges, and my current engagement with the Rolling A WWTF Phase 4 project continues to demonstrate my commitment to successful project management.

The NNCC Sewer Replacement project stands out as a complex endeavor due to its location within a local prison. I was responsible for reviewing all submittals, RFI's, and other documentation from the contractor. Additionally, I operated as a field representative on the project where I made in-the-field design changes with approval of the Engineer of Record in accordance with conditions I witnessed on site. While I was on-site, I performed site inspections of installed materials as well. Administratively, I also processed necessary permits with the relevant government agencies, as well as tracked the budget in conjunction with the updated schedule as the project progressed.

The Sydney Tesla Line project showcased my involvement in a different construction context, focusing on the installation of High-Density Polyethylene (HDPE) pipe. I was once again responsible for reviewing all documentation, primarily Submittals and RFI's, and relying upon the project Drawings and Specifications to come to my determinations. My involvement on this project increased compared to my involvement in NNCC, where I was also now the full-time inspector for the entirety of the project. I was responsible for not only recording the contractors' work, but also inspecting or organizing special inspection for the installed materials on site.

Currently, I am spearheading the Rolling A WWTF Phase 4 project as the Construction Project Manager, overseeing the expansion of a wastewater treatment facility. In the preconstruction phase, I was responsible for organizing the bid process, evaluating the bidders' qualifications and eligibility, and providing an informed recommendation to the owner. During the construction phase, I am responsible for reviewing documentation including Submittals and RFI's, organizing inspections, performing inspections myself, actively monitoring and evaluating the project schedule and budget, as well as providing engineering recommendations for issues that arise in the field, or to accommodate changing priorities from the owner.

In conclusion, my progressive experience in projects such as NNCC Sewer Replacement, Sydney Tesla Line, and Rolling A WWTF Phase 4 reflects my comprehensive involvement in project design, implementation, and operation. These diverse projects have required extensive engineering involvement, and continue to grow my skills in both engineering as well as project management.

MARAL KHORRAMI (18-752-76)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
01/02/2024

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree
4 years, 11 months

Total Engineering Experience
4 years, 11 months

Experience under licensed engineer
4 years, 11 months

Disciplinary Action
None reported




EDUCATION



Bachelors in Civil Engineering (EAC)
University of Nevada, Las Vegas
August 2015–December 2018

EXAMS



Fundamentals of Engineering (FE)
Nevada
May 2019

Principles and Practice of Engineering (PE)
Civil
Nevada
December 2023



LICENSES



Additional Licenses
None

WORK EXPERIENCE

Kimley-Horn
Nevada (United States)
Civil Analyst
January 2019—December 2023

Verified by
Nicholas Eugene Lamek
nick.lamek@kimley-horn.com

Experience Summary
Full-Time
Engineering: 4 years, 11 months
Post EAC degree: 4 years, 11 months
Experience under licensed engineer:
4 years, 11 months



TASKS

The tasks and duties I'm responsible for are 100% engineering. My daily responsibilities include plan and production for 500-2,500 acre utility scale ground-mounted solar sites (Photovoltaic), grading design, erosion control design, project management, value engineering, proposal writing, quality assurance and quality control, communication with the clients and the internal teams, coordination and communication with the construction teams, site visits, and meetings with various counties. Furthermore, I manage various projects and collaborate with the design leads to ensure the final product aligns with client/AHJ expectations and standards. This includes training the design teams, continuous collaboration, and multiple rounds of QA/QC. Additionally, I engage in marketing efforts in order to help with my companies profitability. This includes joining utility scale renewable energy conferences, professional organizations, and other opportunities to network and meet new clients.



REPRESENTATIVE PROJECTS

-Little Bear Solar, Fresno County, CA (03/2020)

I helped the Energy development services team with plan and production of a 1,310 acre, 160 MWac photovoltaic generation facility (ground mounted). My main responsibility was cutting sheets and annotating the erosion control and grading sheets. I was also responsible for site planning and laying out internal array roads and the proper erosion control measures per county standards.

-Sandy Branch Solar, Wharton County, TX (05/2021)

I was responsible for plan and production as well as grading design of a 655 acre, 230 MWac photovoltaic generation facility (ground mounted). I was in charge of grading the PV array field to bring the tolerances within the allowable limits of the racking system selected by the client. Per the owners request, I graded the site to ensure balanced earthwork quantities to avoid any import/exports to the site. Furthermore, after I completed the grading design, I annotated the grading plans and included the appropriate grading details. I also prepared a SWPPP report.

-Red Mesa Solar, San Juan County, UT (04/2022)

I was a task manager for the 660 acre, 72 MWac photovoltaic generation facility (ground mounted). One of my main responsibilities was mass grading the entire site while balancing the earthwork quantities to avoid soil import/export. Due to the substantial amount of grading, the site needed a robust drainage design. I incorporated multiple earthen berms, channels, and ditches across the site to ensure adequate drainage. I also visited the site to collaborate with the field crew and learn more about the site constraints. I prepared a SPCC report for the above ground oils stored within the project site.

-Solar Blue Solar , Kings County, CA (10/2022)

I was a project manager for the Solar Blue project, which is a 1,550 acre, 250 MWac photovoltaic generation facility (ground mounted). I was responsible for client coordination and various meetings to ensure the design was in alignment with client's expectations and County standards. Kings County required storm water retention across the site and I was responsible for designing adequate retention in accordance with 100-year, 10-day storm. I was also in charge of the grading design for the battery storage component and project substation. Additionally, I coordinated the production efforts with the internal Kimley-Horn team and backchecked the plans after every design milestone.

-Ash Creek Solar, Hill County, TX (11/2023)

I was a project manager for the Ash Creek project, which is a 2,280 acre, 408 MWac photovoltaic generation facility (ground mounted). I was in charge of training and coordinating with the internal Kimley-Horn team to communicate the specific design conducive for the project site. I was also responsible for analyzing the unique topography of the site and recommend the proper amount of steel needed to install piles for the racking system. Furthermore, I lead the design team to properly size and design culverts for the internal array roads and driveways in accordance with Hill County drainage standards. Additionally, I worked with

the Owner Engineer to address their comments/questions about the proposed design.

MYLES MENDIVE (20-588-54)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
06/27/2022

Citizenship
United States

SUMMARY



Engineering Experience
after EAC degree
4 years, 1 month

Total Engineering
Experience
4 years, 5 months

Experience under licensed
engineer
4 years, 5 months

Other Experience
2 years, 7 months

Disciplinary Action
None reported



EDUCATION



Non-degree
Mendocino College
August 2013–May 2015

Associates in Engineering
Truckee Meadows Community College
January 2016–August 2017

Bachelors in Civil Engineering (EAC)
University of Nevada, Reno
August 2017–December 2019



EXAMS



Fundamentals of Engineering (FE)
Nevada
October 2019

Principles and Practice of Engineering (PE)
Civil
Nevada
April 2021

LICENSES



Additional Licenses
None

MYLES MENDIVE (20-588-54)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Nugget Casino Resort
Nevada (United States)
Valet
October 2015—May 2018

Verified by

Experience Summary
Full-Time
Other: 2 years, 7 months
Experience under licensed surveyor:
None



DESCRIPTION

MYLES MENDIVE (20-588-54)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Wood Rodgers
Nevada (United States)
Engineering Student Intern
May 2018—August 2019

Verified by
Matthew James Roulias
mroutias@woodrogers.com

Experience Summary
Part-Time
Engineering: 8 months (50%)
Experience under licensed engineer:
8 months



TASKS

I calculated residential lot grades to produce plot plans to develop a fundamental understanding of an important and frequently used program in the civil engineering industry. I designed pipe networks within this software. I analyzed plan set revisions, design reports and planning documents to provide the most efficient solutions possible.



REPRESENTATIVE PROJECTS

Kiley Ranch Subdivision (Sparks, NV - 2018 to 2019): I designed individual residential lots and calculated grades for construction.

Construction documents for the Rancharra South Commercial project (Reno, NV - 2018 to 2019) included creation of water layout plans, commercial development improvement plans, residential plan and profile of utilities, and cross section analysis for channels and/or waterways.

Additionally, multiple training sessions and internal plan review periods were completed (2018 to 2019).

WORK EXPERIENCE

Tectonics Design Group
Nevada (United States)
Civil Designer

September 2019—January 2024

Verified by
Matt K Rasmussen
matt@tdg-inc.com

Experience Summary

Full-Time

Engineering: 4 years, 4 months

Post EAC degree: 4 years, 1 month

**Experience under licensed engineer:
4 years, 4 months**

TASKS

I design and analyze land development projects received from clients to provide the most cost effective and efficient solutions while maintaining the health and welfare of the public. I analyze rainfall data to calculate peak flow mitigation methods to ensure each project/site follows code set forth by any public entity. I also design and calculate lot grading and utility networks for construction. I produce complete civil plan set drawings for submittal to and approval from local jurisdictions.

REPRESENTATIVE PROJECTS

Dollar General Anza, CA Water Quality Management Plan (2019): I produced Water Quality Management Plan that was reviewed and approved by Riverside County. I calculated water quality function pertaining to the development of the site using methods prescribed by the county. I reviewed a round of review comments from the county and ultimately produced an approved plan.

Dollar General Stores, CA, WV, OH, and TX (18 approved and/or completed locations and counting, 2020 to January 2024): I designed and produced a drainage report and the civil improvement plan set for the project while overseen by a licensed engineer. I designed the lot layout and utility networks for the project. I analyzed rainfall data to design a drainage report specific to the site and designed the lot layout, grading, and utility networks. All of this was completed to ultimately produce an approved civil improvement plan set while overseen by a licensed engineer.

Boneyard Flat Buildout Hydrological Study (2020 to 2021): I analyzed future building out of a drainage basin. I calculated the theoretical effects full development of the area would have on the flood plain utilizing engineering methods.

Dutch Bros Coffee Shops TX and UT (15 approved and/or completed locations and counting, 2020 to January 2024): I designed and produced the civil improvement plan sets for the projects while consulting and reviewing with a supervising licensed engineer as required. Additionally, I coordinated with subcontractors including the structural engineer, the building architect, the mechanical and plumbing engineer, and the electrical engineer to compile the full plan set for review and approval by the controlling jurisdiction. I designed the lot layout, grading, and utility networks for the project. I reviewed comments on the project from the jurisdictions engineers and provided updates to the project as required to ultimately produce and approved plan set.

Frito-Lay Product Exchange Centers CA, TX, and AZ (2 Completed projects and 3 projects in permitting, 2020 to January 2024): I designed and produced a drainage report and the civil improvement plan set for the project while overseen by a licensed engineer. I designed the lot layout and utility networks for the project. I analyzed rainfall data to design a drainage report specific to the site and designed the lot layout, grading, and utility networks. All of this was completed to ultimately produce an approved civil improvement plan set while overseen by a licensed engineer.

Double Diamond Building 'A' Drainage Study Reno, NV (September 2020): I produced an approved drainage study based off the supervising engineer's design for a 53-acre industrial site.

Golden Gate Petroleum Yerington, NV (May 2021 to December 2021): I designed and produced an approved drainage study and civil improvement plans for the project while overseen by a licensed engineer. I designed the lot layout and utility networks for the project. I analyzed rainfall data to design a drainage report specific to the site and designed the lot layout, grading, and utility networks. I worked with the Nevada Department of Transportation (NDOT) to design and approve new access driveways for the site.

UNR Farms Flex Reno, NV (November 2021 to November 2023): I designed and produced an approved drainage study and civil improvement plans for the project while overseen by a licensed engineer. I designed the lot layout and utility networks for the project. I analyzed rainfall data to design a drainage report specific to the site and designed the lot layout, grading, and utility

networks.

Tesla Collision Center Drainage Study (Technical Information Report) for Indianapolis, IN (May 2023 to October 2023): I produced an approved drainage design and an associated technical information report for the City of Indianapolis. I utilized HydroCAD and follow the City's guidelines in provided the approved report.

Airway Commerce Center Drainage Study Reno, NV (October 2022 to February 2023): I produced an approved drainage study based off the supervising engineer's design for a 53-acre industrial site.


1050 Waltham Way, Tahoe-Reno Industrial Center, Storey County, NV (June 2023 to January 2024): I designed and produced an approved drainage study and civil improvement plans for the project while overseen by a licensed engineer.

MORGAN MEYER (20-607-30)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
01/08/2024

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree
4 years, 1 month

Total Engineering Experience
4 years, 1 month

Experience under licensed engineer
4 years, 1 month

Disciplinary Action
None reported




EDUCATION



Bachelors in Civil Engineering (EAC)
University of Nevada, Las Vegas
August 2015–December 2019

EXAMS



Fundamentals of Engineering (FE)
Nevada
November 2019

Principles and Practice of Engineering (PE)
Civil
Nevada
April 2021



LICENSES



Additional Licenses
None

WORK EXPERIENCE

Atkins
Nevada (United States)
Engineer I
December 2019—October 2021

Verified by
Vance Allen Skidmore
Vance.Skidmore@atkinsrealis.com

Experience Summary
Full-Time
Engineering: 1 year, 10 months
Post EAC degree: 1 year, 10 months
Experience under licensed engineer: 1 year, 10 months



TASKS

I was part of the water resources group at Atkins, working on storm drain design projects and studies. I ran hydrology and hydraulic models in order to adequately size proposed storm drain facilities such as drop inlets, pipes, and channels. I created profiles, drafted sheets, as well as built and updated utility models in order to coordinate design.

I was an Intern II from June 2019 to February 2020, which includes the two months following my December 2019 graduation. I was then promoted to an Engineer I. I worked as an Engineer I from February 2020 until I left the company in October 2021.



REPRESENTATIVE PROJECTS

Stewart Storm Drain - Lamb to Las Vegas Wash
01/2021-10/2021

This project, located on the east side of Las Vegas, proposed a mainline storm drain on Stewart Avenue from Lamb Boulevard until its convergence with the Las Vegas Wash. This stretch is part of CCRFCD's Las Vegas Valley Flood Control Master Plan. It is ultimately intended to intercept flow at Pecos Road and convey it east.

I worked on the design of this project from its start until I left Atkins after the 30% submittal. I was responsible for utility coordination, design, and design reports on this project from the preliminary stages to the review of the 30% plans. Much of my early work on the project involved reviewing as-builts and incorporating existing utilities into the design drawings. I adjusted the existing utility CAD line work when additional survey information was collected that reflected more accurate locations. I referenced new survey dip data to adjust vertical placement of inverts in pipe networks. I also used WSPG to determine Hydraulic Grade Lines and ensure that the pipe would meet local criteria of 1-foot minimum below finished grade.

I was also involved in the plan production for this project. Sheets at the 30% included removals, roadway, storm drain, signing/markings, traffic signal, ITS/lighting, and subgrade utility plans. I prepared quantities to be used in the cost estimate submittal for the 30% design.

This project was ultimately shelved by the city of Las Vegas. It will now be done as a complete streets project, with federal funds also requiring a NEPA evaluation.

Charleston Maryland Storm Drain
12/2019-10/2021

This is a major storm drain project located near downtown Las Vegas. It proposed a large mainline from Boulder Highway along Charleston Boulevard to Maryland Parkway. At the downstream end of Charleston, the reinforced concrete box gets as large as 18'x8'. The system also extends up Maryland Parkway to the Stewart Avenue intersection. In addition to the mainline storm drain there are many laterals tying in at major intersections that will collect flow from side streets north and south of Charleston.

I worked on the design plans for this project during its final design phases. Much of my time was spent incorporating existing and proposed utilities in the plan sheets to understand their relationship with the new storm drain facilities. This involved building pipe networks in CAD and updating vertical elevations to make sure all utilities were being shown accurately in the plan set's profile views and so potential conflicts could be addressed. Once I created the pipe networks mapping the existing utilities, I would work with the lead storm drain designer to point out vertical and horizontal clearance issues and assist in rerunning calculations for adjustments made to the profile as necessary.

This project is currently in construction.

Greene Wash
10/2020-10/2021

This project was located south of Phoenix, AZ in a rural area that experiences flooding. I ran HEC-RAS models to simulate rain on grid storms to understand the flow of water through the area. This helped determine the size of the facilities needed to convey and store floodwater. Retention basins and culverts were the main types of facilities proposed during the design phase. I then

incorporated these proposed facilities into the models to test their effectiveness. Culverts placed under the interstate were helpful in preventing runoff from getting trapped on one side of the interstate and ponding there. By allowing runoff to flow "through" the elevated roadway, it could be collected downstream in a retention basin where less would be loss to evaporation.

WORK EXPERIENCE

City of Las Vegas - Public Works
Nevada (United States)
Engineering Associate
October 2021 — January 2024

Verified by
Nicole Elizabeth Melton
nmelton@LasVegasNevada.GOV

Experience Summary
Full-Time
Engineering: 2 years, 3 months
Post EAC degree: 2 years, 3 months
Experience under licensed engineer:
2 years, 3 months



TASKS

I am responsible for reviewing designs of Capital Improvement Projects (CIP). This includes reviewing plan sets, quantities/cost estimates, and specifications. I review these CIP projects at all stages of design and continue to be engaged with the project when it moves to construction to support the City's Construction Management Department. This includes reviewing RFIs, change orders, and other plan deviations.

I also review as-built drawings to ensure all modifications made during construction are reflected. I'm also responsible for uploading final and as-built drawings to the City's Plans Library so the information provided in them can be used in future project drawings.

Many of the projects I work on have a combination of storm drain, sewer, traffic, and transportation elements. This requires coordination with other City departments to get project plans reviewed and comments addressed by the consultants.

I have been an engineering associate for all of this time at the City. I also interned at the City when I was still completing my degree. I was an intern from July 2017 until I left to work at Atkins in June 2019.



REPRESENTATIVE PROJECTS

Charleston Storm Drain - Main to Maryland - Design is at 100%.
10/2021 - 01/2024

This project is phase 3 and the most upstream segment of the Master Plan facility that intercepts and conveys the 100-year storm event runoff that reaches Charleston Boulevard. There is more than 1500 cfs in the 100-year event that reaches this facility.

I reviewed 90% and 100% plan sets, quantities/cost estimates, and specifications including pay item descriptions for the project.

The downstream facility is currently in construction, and it is important that this project seamlessly ties into all facilities and surface improvements.

Since I am also assisting with the downstream project in construction, I analyzed tie in areas to ensure the two projects minimize overlap and redundancies and assess lessons learned throughout the on-going construction to ensure the design project accounts for field conditions encountered to minimize future change orders.

Gowan Outfall - Alexander Branch - Design was at 90% but has since been taken over by a new consultant. Project has just been kicked off again.

10/2021 - 01/2024

This project involves flood control improvements along Alexander Road between Torrey Pines Drive and Decatur Boulevard and complete street improvements between Rancho Drive and Decatur Boulevard including two new traffic calming roundabouts. This project also includes new sanitary sewer facilities and water main relocation.

I reviewed the 90% plans before the City decided to halt the project and select a new consultant. I will be responsible for reviewing the new contract document submittals while also tracking that previous efforts by City staff to identify problem areas are addressed in the new design.

I reviewed 90% plan sets, quantities/cost estimates, drainage report, and specifications for the project.

I analyze roundabouts to ensure they meet Fire Engineering accessibility guidelines by performing turning movement analysis and performing sight visibility analysis throughout the corridor.

Lake Mead - Losee to Simmons - Street Rehab and Complete Street Upgrades - Design is currently at Pre-Final.

10/2021 - 01/2024

This project is primarily a roadway project with some utility adjustments/relocations including some new storm drain infrastructure. The complete street upgrades include improvements at intersections to provide accessibility including updated pedestrian ramps and audible push button detectors.


I reviewed 100%, 100% Interim, and Pre-Final plan sets, quantities/cost estimates, and specifications for the project. In addition to working on the design, I also assisted the Right-of-Way team in securing easements and acquisitions prior to construction. I developed exhibits that helped communicate impacts and acquisitions to residential and commercial owners. I also accompany the City right-of-way agent when they meet with owners. I communicate the project's design elements or the temporary/permanent impacts to their parcel. This project is also within City of North Las Vegas (CNLV) jurisdiction, generally located on the northern half of Lake Mead. This requires coordination with staff at CNLV to ensure municipal codes and processes are adequately being followed. In addition, I was responsible for assisting with the execution of the interlocal agreement with CNLV which dictates maintenance requirements and cost sharing information.

HANNAH NICHOLAS (20-263-82)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
01/05/2024

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree
4 years

Total Engineering Experience
4 years

Experience under licensed engineer
4 years

Disciplinary Action
None reported




EDUCATION



Bachelors in Civil Engineering (EAC)
University of Nevada, Las Vegas
August 2013–December 2019

EXAMS



Fundamentals of Engineering (FE)
Nevada
August 2019

Principles and Practice of Engineering (PE)
Civil
Nevada
October 2020



LICENSES



Additional Licenses
None

WORK EXPERIENCE

HDR
Nevada (United States)
Transportation EIT
January 2020—October 2023

Verified by
Asafft Eduardo Abdo
asafft.abdo@hdrinc.com

Experience Summary
Full-Time
Engineering: 3 years, 9 months
Post EAC degree: 3 years, 9 months
Experience under licensed engineer:
3 years, 9 months

TASKS

I started as a part-time student intern with HDR, and my full time experience began after graduation in January 2020. I started with drafting and addressing comments on storm drain, water line replacement, and traffic design projects. I used AutoCAD, Microstation, AutoTURN, and SignCAD to create and edit design plans.

As I gained more experience, I designed traffic signals, signing, and striping using the Manual on Uniform Traffic Control Devices (MUTCD) and local standards. I determined placement of traffic signal poles and other traffic control devices using the MUTCD, utility information from test hole data, and client standards and preferences. I prepared traffic signal plans, schedules, and conduit fill calculations. I also designed street lighting using client standards and the National Electrical Code. I performed voltage drop calculations to size conductors. I performed service panel calculations to verify adequate power service and calculate added loads from new street lights. I designed special sign details and sign posts using client standards and the MUTCD, including ground mounted and overhead sign structures. My focus was primarily in traffic design, but I also designed a replacement of a water main, used AutoCAD Civil 3D to draw pipe networks, and performed thrust restraint calculations.

My responsibility later grew to a supervisory role; I supervised 1-2 staff at a time for a total of 4 during my time with HDR. I also served as a traffic design lead and deputy project manager. As a traffic design lead, I directed staff to complete design and performed detailed reviews on plans and cost estimates. I also managed budget and submittal schedules and coordinated with clients. As a deputy project manager, I was responsible for managing multi-discipline teams, facilitating meetings internally and with clients, and creating schedules using Microsoft Project.

REPRESENTATIVE PROJECTS

For the Charleston Blvd project, I assisted with utility and traffic design. My role on the project in January 2020 began by developing 70% plans, specifications, and cost estimates through final design in spring 2023. I revised design for storm drain replacements using AutoCAD Civil 3D to draw pipes, manhole structures, and adjust slopes and elevations. I designed a 16" PVC waterline replacement, including slopes, pipe fittings, valves, and thrust restraint calculations on joints. I completed site visits to confirm ADA compliance. Later in the project, I was responsible for traffic design. I adjusted traffic signal poles based on test hole data, progressed traffic plans to final design, and responded to requests for information (RFIs) during construction.

My role on the Lake Mead Blvd Roadway Rehabilitation project was in traffic design from January 2020 through summer 2023. From the beginning of the project through final design, I was responsible for designing signing, striping, lighting, ITS, and traffic signal plans, specifications, and cost estimates. During early design, I developed alternatives for signing and striping. I designed roadway lighting by performing service panel calculations to verify that power services were adequate for proposed lights, and performed voltage drop calculations to select conductor sizes. I designed traffic signal modifications, school zone flasher poles, and rectangular rapid flashing beacon (RRFB) systems including plans, conduit and pole schedules, street name sign details, and conduit fill calculations. During final design, I responded to client comments and performed detailed reviews on plans, specifications, and cost estimates.

The Craig Road Pedestrian Bridge project consisted of a new pedestrian bridge in North Las Vegas to connect the Upper Las Vegas Wash trail across Craig Road. I was the civil design lead from early 2020 through 2023 responsible for demolition, construction, lighting, utility, and signing plans. I designed an ADA compliant path, landscaping features, special sign details, trail and bridge lighting, and utility relocations. The utility coordination effort was significant, as there were existing overhead electric and communication lines that conflicted with the new bridge location. I coordinated with utility companies to relocate overhead lines underground by boring under a flood channel. I designed lighting along the path and on the bridge, which included selection of poles and fixtures, voltage drop and service panel calculations, and coordination with structural engineers to design mounting of light poles and conduits on the bridge. I also performed line of sight calculations to verify that existing signs and traffic signals

would be visible once the new bridge was constructed.

The Nevada Department of Transportation (NDOT) project on Summerlin Pkwy consisted of traffic signal modifications, sign plans, and lighting plans. I worked on this project from fall 2021 through fall 2023 as the deputy project manager and lead for traffic signal and sign design. I designed traffic signal and signing plans, schedules, details, calculations, and estimates to bring the corridor to NDOT standards after it was transferred from Clark County to NDOT right-of-way. As the deputy project manager, I facilitated meetings internally and with NDOT, responded to comments, managed the lighting design team, coordinated internal reviews, prepared specifications, and managed the schedule. Through construction, I responded to submittals and RFIs related to signing and signals, and coordinated with the lighting engineer for lighting related responses.

The NDOT I-11 project began with an environmental review project in early 2020 to evaluate three corridor options, then transitioned to a sign design project in spring 2022 once a corridor was selected. During the environmental process, I prepared typical section drawings for public meetings and provided responses to public comments. I also prepared minutes for meetings internally, with NDOT, and with various stakeholders. After the environmental review, I was the deputy project manager for the sign design project to add I-11 signage along the selected corridor. I managed field teams to complete a signage inventory and maintained maps and a spreadsheet for about 1600 signs in the Las Vegas valley. I created and tracked a schedule, led meetings internally and with NDOT, responded to comments, and prepared progress reports for invoicing. With the design team, I made design decisions and performed detailed checking on sign plans and sign post calculations.

WORK EXPERIENCE

City of Great Falls
Montana (United States)
Civil Engineer
October 2023—January 2024

Verified by
Jesse Earl Patton
jpatton@greatfallsmt.net

Experience Summary
Full-Time
Engineering: 3 months
Post EAC degree: 3 months
Experience under licensed engineer: 3 months



TASKS

In October 2023, I moved to Montana and started a Civil Engineer position with the City of Great Falls. My responsibilities include managing projects for capital improvements to public infrastructure and utility reimbursement research and calculations. I manage projects related to improvements at the City's water and wastewater treatment plants, sewer lift stations, sewer pipes, storm drain, street reconstruction, and sanitation. In my role as project manager I work with internal clients and consultants to develop scopes of work and execute projects. I visit sites to determine what improvements are needed, perform record research, facilitate meetings, and manage schedule and budget. For utility reimbursement, I work with the City Planning and Community Development department and property owners to determine if reimbursements are owed to the City for public utilities upon annexation of a property into city limits. Through this process, I research annexation agreements and City commission reports and calculate quantities and costs for utility improvements. I also prepare engineering project summaries and presentations for City Commission meetings to get funding approved for infrastructure projects. At the time of this application I have worked with the City for almost 3 months, so the representative projects listed below are in progress at early stages.



REPRESENTATIVE PROJECTS

I am currently managing the Lift Station #15 project, which consists of upgrades to variable frequency drives and other electrical components. As project manager, I visited the lift station with other City staff to determine what improvements are needed and documented issues. I worked with a consultant to develop a scope and schedule that are consistent with the City's Capital Improvement Plan.

The City has a Trenchless Sewer Rehabilitation project that installs lining on existing sewer mains each year. I am managing the current phase of the project, Phase 26. The City Utilities department selects existing sewer mains that may be eligible for lining, and I watch video inspections to verify. I evaluate existing sewer mains for any issues that may impact lining, such as large cracks, calcium deposits, or protrusion of roots into the pipe. Pipes with calcium deposits and roots are cleaned then are ready for lining, and large cracks or other issues are to be spot repaired. Existing sewer mains are selected for lining up to \$1,000,000 in construction cost. I also create exhibits of pipes to be lined using AutoCAD and write specifications. My responsibilities also include management duties, such as tracking the schedule and processing invoices.

The City of Great Falls Sanitation department has a contract with Republic Services to dispose of solid waste at their landfill. I am responsible for tasks related to the contract, including recertifying a waste profile and designing guardrail for a ravine road on the way to another landfill. Recertifying the profile involved getting Toxicity Characteristic Leaching Procedure (TCLP) testing performed on the alum sludge, and coordinating with Republic Services. For the guardrail design, I visited the site to document existing conditions and measure the width of the traveled way to inform barrier type and length.

For the 5th Avenue Northwest project, I am currently designing roadway reconstruction. This project involves about 3000 feet of replacement of an existing water main, and installation of a roundabout at the intersection of 5th Avenue Northwest and Watson Coulee Road which is designed by another engineer. I am currently designing the roadway alignment, proposed surface, plan, and profile in AutoCAD Civil 3D to reconstruct the road after the water main is replaced.

ZACHARY SWAFFORD (13-365-43)

All work experience reviewed by two licensed professionals

DISCIPLINE: CIVIL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/13/2023

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree
8 years, 1 month

Total Engineering Experience
8 years, 1 month

Experience under licensed engineer
8 years, 1 month

Disciplinary Action
None reported




EDUCATION



Non-degree
University of Nevada, Reno
September 2006–May 2008

Bachelors in Civil Engineering (EAC)
University of Idaho
September 2008–December 2011

EXAMS



Fundamentals of Engineering (FE)
Idaho
October 2011

Principles and Practice of Engineering (PE)
Civil
Nevada
November 2023

LICENSES



Additional Licenses
None

ZACHARY SWAFFORD (13-365-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Allied Nevada Gold Corporation
Nevada (United States)
Project Engineer
February 2012—December 2013

Verified by
Zachary Swafford (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

- Served as the only project engineer on the owner's team responsible for \$200 million in capital projects.
- Worked with both small and large contract engineering firms. Supported the design of a 135,000 ton/day crushing and milling circuit including all process and support facilities (leach pad, tailings dam, processing/refining plant, rail spur, roads and ponds).
- Created, organized and managed the Hycroft Mine's CAD site plan.
- Designed alignments and profiles for roads and power lines throughout the mine.
- Dealt with cost tracking, scheduling and procurement for both T&M and lump sum contracts.
- Produced cost estimations, RFPs and bid evaluations for projects ranging from \$5,000 to \$1.5 Million.



REPRESENTATIVE PROJECTS

During 2011/2012 the Hycroft Mine designed and constructed a \$200 dollar crushing circuit, leach pad and processing facility as part of a large planned expansion to the mine. I was hired to assist the company's chief engineer for the project. Fluor was hired to complete the design of the expansion with a team of 100+ engineers. My duty was to coordinate between the design team in Dublin, CA and the Hycroft Mine in Winnemucca, NV. For the first year while the project was under design I split my time between the Mine and the Engineering offices providing technical support and design review for the engineering effort. After the first year the project got underway and I was the first of the owner's team on site supporting construction activities and managing contractors. I spent the rest of my time with allied as the project engineer supporting the owner's team of 7 project managers. This included CAD support, contractor management, plan review, change orders and cost estimates.

ZACHARY SWAFFORD (13-365-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Hycroft Mining Corporation
Nevada (United States)
Process Engineer
December 2013—May 2015

Verified by
Zachary Swafford (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

Once the expansion project was completed I was hired by the Hycroft Mine to run the leach pad I had just built as part of the expansion (along with existing leach pads on site). My duties included short and long-term planning for the leach pad. This included daily coordination with the mine planners and foremen to manage operations at the mine. After 6 months I took over management of the leach pad crews in their daily tasks. My overall objective was to troubleshoot and improve leach pad operations.



REPRESENTATIVE PROJECTS

My first project apart from daily operations and planning was to increase solution flow to leach pads. It started with an effort to survey and map all pipes and analyze the network. Through pipe network modifications we were able to increase flows the leach pad from 24,000 gpm to over 30,000 gpm over 6 months. I implemented management systems for the leach pad crews and trained the crews to manage the leach pads themselves to increase efficiency. I spent half my time in the office planning and managing the leach pads and the other half of my time on the pads working with the crews.

ZACHARY SWAFFORD (13-365-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Ragan Smith Associates
Tennessee (United States)
Project Engineer
October 2015—August 2019

Verified by
William Horn
lhorn@ragansmith.com

Experience Summary
Full-Time
Engineering: 3 years, 10 months
Post EAC degree: 3 years, 10 months
Experience under licensed engineer:
3 years, 10 months



TASKS

As a project engineer my tasks included assisting PEs on all related site design and project management tasks for land development projects. These tasks included but were not limited to grading, utility design, LID stormwater design, and stormwater detention and attenuation, and plan preparation and development for projects in the planning, design and construction stages. Projects I worked on included commercial, industrial, mixed-use, multifamily residential and public infrastructure projects both large and small.

A large portion of my work was conducted within AutoCAD Civil 3D. I created existing/demolition plans for redevelopment sites, grading models for plan preparation and earthwork calculations, pipe network designs, plans and profiles for utility networks and preliminary and final site layouts for multiple different sites. I also worked within CAD to produce planning, design and construction plans for many sites as well as coordinated with public agencies to ensure projects were delivered on time and on budget.



REPRESENTATIVE PROJECTS

Over my time with Ragan Smith I worked on a number of projects. Listed below are a few of the more notable sites:

East Works District - Planning level design development of a 50 Acre office site into a mixed use, pedestrian friendly development. The bulk of my design work on this project was a phased stormwater treatment and detention system designed to mirror the 6-phase decade-long development of the site.

Aureum - Planning level design development for a 25 acre greenfield mixed use site including hotels, apartments and commercial/restaurant space. My focus on this project was design of a stormwater management system using low-impact design. The design used bioretention, pavers and green roof to achieve treatment targets and was phased for the multi-phase construction of the site. I also designed a preliminary horizontal and vertical utility layout (storm sewer/sanitary sewer/water/gas/electric/comm) for the entire site as well as traffic design and layout for the entrances off of the main roads into the project.

Graduate Hotel - Lead designer for redevelopment of a downtown Nashville site into a hotel. I produced construction plans for the project. My design included a CAD grading model and utility design including an underdrain system for the outside of the building foundation.

11th Avenue Substation Duct Banks - Lead designer for a project that included approx. 2 miles of underground high voltage ducting and manholes for the Nashville Electric Service. Routing of the ducts was in a downtown area with numerous utility conflicts. I designed layouts and profiles for all trenches as well as manhole details for junction points on three separate distribution systems.

Donelson Station - Redevelopment of a 6.5 acre site for a 197 unit multifamily site. My design included an extensive LID stormwater design utilizing bioretention and permeable pavement. I created a detailed grading model for the finished surface and the subgrade surface under the permeable pavers. The site also included a public stormwater bypass as well as designs for all associated utilities.

La Quinta - 0.6 acre downtown redevelopment to build a La Quinta hotel. I produced the design and construction documents for this site. My design included a section of public sewer main, a bioretention LID stormwater design, a grading model and an unusual traffic pattern design using an adjacent parking lot and a shared access easement.

The Goddard School of Gallatin - 1.8 acre greenfield site development for a daycare/preschool center. I designed the entire site

including an LID stormwater treatment system utilizing bioretention areas for treatment. In addition to this I also produced a CAD grading model for the site and the utility connections for the site (storm/sanitary/water).

7216 Nolensville Road - Design and plans for a 1.6 acre redevelopment for a bank/retail/restaurant building. I produced a stormwater treatment and detention system for the site using bioretention ponds and permeable pavers. I also created the grading model and utility connection design for the building.

In addition to those listed above, I assisted with a number of other projects on a more limited basis.

ZACHARY SWAFFORD (13-365-43)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Wood Rodgers
Nevada (United States)
Assistant Engineer
September 2019—December 2023

Verified by
Mark Cendagorta
mcendagorta@woodrogers.com

Experience Summary
Full-Time
Engineering: 4 years, 3 months
Post EAC degree: 4 years, 3 months
Experience under licensed engineer: 4 years, 3 months



TASKS

As an assistant engineer my tasks included assisting PEs as the lead designer for site design and project management tasks. These tasks included but were not limited to grading, utility design, stormwater detention and attenuation, traffic engineering and plan preparation and development for projects in the planning, design and construction stages. I assisted multiple engineers in a wide range of projects including single family residential, multifamily residential, commercial, industrial and public infrastructure projects.

A large portion of my work was conducted within AutoCAD Civil 3D and Microstation. I created existing/demolition plans for redevelopment sites, grading models for plan preparation and earthwork calculations, pipe network designs, plans and profiles for utility and roadway networks and preliminary and final site layouts for multiple different uses. I also worked within CAD to produce planning, design and construction plans for many sites as well as coordinated with public agencies to ensure projects were delivered on time and on budget.



REPRESENTATIVE PROJECTS

During my time with Wood Rodgers I've worked on a diverse range of projects. Listed below are a few of the more notable sites:

Daybreak - Planning level design for a 4,200 unit development on 980 acres. The subdivision included a mix of residential densities and commercial space. I worked on designs for preliminary drainage and utility analysis over the entire site. I also worked on subdivision lot layouts for multiple single family product types. I created horizontal layouts and vertical profiles for the backbone roads throughout the site.

Highland Student Housing - Design development for a 268 unit student housing project on 3.6 acres just east of the University of Nevada, Reno. This 6 story building required close coordination with the architect to design a building that would fit within the site's challenging grading constraints with entrances to the building on three levels and along two adjacent public streets. My design included an in-line underground detention system as well as a detail grading model for the exterior and interior courtyards of the building.

Reno-Tahoe Business Gateway - Preliminary design development for for 27 acre greenfield site consisting of +200,000 SF flex industrial space and +100,000 SF mini-storage. This project required permitting with multiple local, state and federal agencies. Duties included mass grading design and earthwork calculations, utility design and layout and stormwater detention and attenuation.

Nevada Air National Guard Apron Pavement Maintenance - This design included maintenance/replacement plans for the Air National Guard aircraft apron. I performed field investigations to determine the servcability of the existing apron and determine what areas need repair. With this information I produced a repair plan for the apron concrete and a restriping plan that would allow the National Guard to operate larger aircraft. The project was deisgned with phased and accellerated construction options to allow the existing apron to remain in operation and minimize disruptions.

Caltrans Middle-Mile Broadband Network - This project included design of 110 miles of fiberoptic line along Highway 99 in California. I handled layout and design for 40 miles of the network. This project was on an accellerated schedule and required close coordination with a number of engineers as well as the use of a number of custom AutoCAD tools to complete within the limited project window.

RTC Virginia Line BRT Improvements - My primary focus on this project was producing plans for the 2,200' water main replacement that was scheduled to be completed before the project's suface improvements began construction. My design

included demolition and removal of old mains and services, construction of new mains and services as well as connections to water mains on three adjacent streets. I produced detailed plan and profile designs for the new water main with all necessary utility crossings.

Tamarack Residence Inn - Design development for a hotel property site interfacing with an existing casino property in Reno. My design included site layout, CAD grading model, utility design (storm/sanitary/water/gas/electric/comm), roadway design as well as pedestrian connections to the adjacent properties and public right-of-way.

South Center Street Multi-Family Residential - Design development plans for a 156 unit, 6-story multi-family building on a 1 acre site just south of downtown Reno. Project required detailed coordination with the architect to produce a building that would allow connection to adjacent streets from 2 levels of the building and still meet fire code height requirements. I produced a detailed final grading plan and mass grading/earthwork plans as well as connections to existing utilities around the building.

Fallon Arby's - Provided engineering design on an outparcel project for an Arby's restaurant. As design lead I created the CAD grading model, utility designs and site layout. I also coordinated closely with the City and State agencies to receive project approval.

In addition to the projects listed above I've worked on a number of other projects as the design lead or in a supporting role since joining the company in 2019.

Electrical

JAMES DITMARS (19-064-90)

All work experience reviewed by two licensed professionals

DISCIPLINE: ELECTRICAL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/30/2023

Citizenship
United States

SUMMARY







Engineering Experience
after EAC degree
5 years, 2 months

Total Engineering
Experience
5 years, 2 months

Experience under licensed
engineer
5 years, 2 months

Other Experience
18 years, 7 months

Disciplinary Action
None reported




EDUCATION



Bachelors in Electrical Engineering (EAC)
University of Nevada, Reno
August 2014–May 2018

EXAMS



Fundamentals of Engineering (FE)
Nevada
May 2018

Principles and Practice of Engineering (PE)
Electrical & Computer
Nevada
October 2023



LICENSES



Additional Licenses
None

JAMES DITMARS (19-064-90)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

US Army
US Armed Forces - Americas (United States)
Bradley Fighting Vehicle Mechanic
August 1998—August 2002

Verified by

Experience Summary
Full-Time
Other: 4 years
Experience under licensed surveyor:
None



DESCRIPTION

WORK EXPERIENCE

Nevada Army National Guard

US Armed Forces - Americas (United States)

Cavalry Scout

August 2002—May 2016

Verified by

Experience Summary

Full-Time

Other: 13 years, 9 months

Experience under licensed surveyor:

None



DESCRIPTION

WORK EXPERIENCE

Nevada Army National Guard

US Armed Forces - Americas (United States)

Electromagnetic Spectrum Manager

May 2016—August 2019

Verified by

Experience Summary

Part-Time

Other: 10 months (25%)

Experience under licensed surveyor:

None



DESCRIPTION

WORK EXPERIENCE

NAVFAC; NAS Fallon Public Works
Nevada (United States)
Electrical Engineer
October 2018—December 2023

Verified by
Brandon Sorensen
brandon.sorensen2.civ@us.navy.mil

Experience Summary
Full-Time
Engineering: 5 years, 2 months
Post EAC degree: 5 years, 2 months
Experience under licensed engineer:
5 years, 2 months



TASKS

Some of my main responsibilities consist of developing, implementing, and providing oversight of various projects at Naval Air Station Fallon, NV. My daily tasks include receiving requests from various customers and developing a Scope of Work (SOW) to meet their needs while also ensuring the project conforms to the Unified Facilities Criteria (UFC) as part of the Whole Building Design Guide. I perform calculations to verify items such as voltage drop, ampacity, and conduit fill percentages are properly accounted for. Not only is this important to meet UFC requirements, it allows me to get an accurate estimate of what the cost will be for the customer. After the SOW has been reviewed by the customer and fellow engineers and technicians within Public Works, I work closely with our Contract Specialists to get a cost proposal from a contractor to perform the work to ensure that the final design satisfies both customer and UFC requirements.

One of my essential tasks prior to the start of construction is to review the Safety Plan submittal from the contractor. Safety is always the most critical aspect of the project, and being attentive to the Safety Plan is vital to everyone's success. The next submittal I review is the Quality Control (QC) Plan, which is reviewing the qualifications of the QC Manager. This is the key to ensure that the quality of the work is performed to meet the customer's needs, as well as the contractual requirements. I'm typically the Construction Manager of the projects that I develop, ensuring they conform to the requirements I have detailed in the SOW. Overall, I estimate that I spend about 70% of my time as an engineer, 10% as Project Manager on administrative tasks, and 20% as Construction Manager.



REPRESENTATIVE PROJECTS

I have experience as a Design Manager, Project Manager, and Construction Manager of a project to design and install the audio-visual system of a new 25,000 sq. ft. Airwing Training Facility. I worked with the customer to develop requirements of the project and helped to develop a preliminary design for the facility. Once the contractor produced the pre-final design, the customer and I gave feedback to the contractor for changes, and their PE sent the stamped final design after making those corrections. We ensured that the contractor installed monitors, speakers, mixers and amplifiers, PCs, matrix switches, and user consoles that met the customer's requirements in order to fulfill their mission.

I developed a Scope of Work (SOW) to install 7 new uninterruptible power supply (UPS) systems at various locations of the local Medical Treatment Facility. The Medical personnel needed battery backup of 8 hours for several temperature-sensitive storage units. The customer had recommendations of UPS models for each location. I verified the current draw of each unit and calculated the time of how long each of the UPS would last, to ensure at least 8 hours of operation. I noticed that one of their recommended UPS models was not available in the required voltage class of one of the units, but found that another model would work for their requirements as an alternative, and had that installed.

Another project that I was assigned was to be a Design Manager and Project Manager to replace the end-of-lifecycle transformer and switchgear in the Airfield Operations building. In addition to the age of the equipment, there was a safety concern since the switchgear feeds both the Operations building and the nearby firehouse. The firehouse was built decades after the Operations building; when added to the switchgear, they connected the breaker upstream of the main breaker of the switchgear, so this circuit would still be active if the main breaker was shut off. I developed the SOW to address the safety issue, as well as make it so the two different buildings could be isolated. Now, if work requiring an electrical outage needs to be done in one building, the other building can stay active.

There was a power failure to an array of ammunition storage buildings. Upon inspection, it was discovered that a 480V cable, connected on the secondary side of a medium voltage-transformer, that was directly buried in the ground failed, causing the power failure. I calculated the voltage drop to properly size a new cable, conduit size, and sized a new safety disconnect switch to be able to isolate this circuit from another building that the transformer feeds.

A customer needed to have optical fiber run between three buildings to network their Security and Operations system to one central location. I created a SOW to install new fiber cabinets, patch panels, and single-mode fiber with duplex LC connections. The pathing of the new fiber utilized new conduit and existing underground duct bank. Upon completion, I ensured the testing results conformed to the needs of the customer. The most important part of this project was verifying the contractor installing the fiber in the underground vaults used proper safety procedures in their confined-space entry operations.


I was tasked to size and implement two new emergency backup generators for a hangar and a fire suppression building. Previously, a single generator would power both locations. However, the generator failed, and our office decided to install two separate, smaller generators. As a solution, I collected power data from both locations during a time when visiting squadrons were utilizing the locations, ensuring that the peak load would be captured. I used the test results to calculate the required size of the generators in each location. I also scoped the new locations, and worked with the Environmental Program Director in order to get them onto the new permit from the Nevada Department of Environmental Protection office.

JESSE REEK (19-008-32)

All work experience reviewed by two licensed professionals

DISCIPLINE: ELECTRICAL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/12/2023

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree
4 years, 7 months

Total Engineering Experience
4 years, 7 months

Experience under licensed engineer
None

Disciplinary Action
None reported




EDUCATION



Bachelors in Electrical Engineering (EAC)
University of Nevada, Las Vegas
August 2012–December 2018

Waiver Requests: NRS 625.183(4)(B)

EXAMS



Fundamentals of Engineering (FE)
Nevada
August 2018

Principles and Practice of Engineering (PE)
Electrical & Computer
Nevada
October 2019

LICENSES



Additional Licenses
None

WORK EXPERIENCE

JT4 LLC
Nevada (United States)
Engineer II
December 2018—July 2023

Verified by
William Arnett
William.Arnett@jt4llc.com

Experience Summary
Full-Time
Engineering: 4 years, 7 months
Post EAC degree: 4 years, 7 months
Experience under licensed engineer:
None

TASKS

Responsible for telemetry and flight termination engineering for JT4 LLC to support the J-TECH II contract. I am responsible for designing, testing and documenting RF, digital and power systems to support the war fighter. My position has been Engineer 1 and is now Engineer 2. I began my career working on embedded system devices for remote power control as well as learning about and supporting telemetry systems used to support Air Force test ranges. I then worked on software to interact with physical devices and sensors. Recently, I have been taking a leading role on a TM processing upgrade to enhance Air Force telemetry processing and mission support capabilities.

REPRESENTATIVE PROJECTS

Location: NTTR (Nevada Test and Training Range)

-July 2019 - February 2021 - I designed a 40 amp 120VAC network-controlled power reset device. I drew the AutoCAD drawings of the device, from a top view, front view, side views and back view. Also I wrote an Operation and Maintenance manual for the device. The device is remotely controlled with a telnet command or a website hosted on the IoT device. The Internet of Things (IoT) device was my first project and was installed at multiple remote TM antenna sites. I worked alongside electronic technicians to install the device as well as build the device that I designed and programmed. The entire program was less than 2 kB and the devices have been running constantly since 2021.

-June 2021 - July 2022 - I designed a network monitoring auto-shutdown device to shutdown remote site equipment automatically during a mission if there was a network failure lasting longer than 30 seconds. The device communicated on two separate networks and contains a latching relay. The device communicates with site equipment using UDP. The device can be configured to a particular site by holding a push button on the front.

-July 2022 - July 2023 - I programmed software to plot wind data on a real-time strip chart with multiple times configurable from 1 minute, 5 minutes, 10 minutes, 15 minutes, 30 minutes and 1 hour. The two plots can be independently zoomed in or out from 5 to 50 knots. The wind sensor data can be viewed as cross winds, head winds, or total wind speeds due to the calculations done in the software. The software has been tested and compared to Air Force standard weather software. I built the strip-charts in Python using basic graphical tools and mathematical plotting concepts to ensure proper scale.

-July 2022 - July 2023 - I programmed software to parse multicast weather XML data and send it as IRIG standard (Inter-range Instrumentation Group) standard Telemetry over IP (TMoIP) packets. The software reads multicast XML data and reformats it into TMoIP packets while closely adhering to the IRIG-106 standard for timing and packet content. These packets can be detected and synchronized by external hardware. The purpose of the software is to support adding additional sensor data to Air Force telemetry streams.

- April 2022 - April 2023 Working with two other senior TM engineers, I re-designed a telemetry cart with a bit synchronizer to convert TM RF signals from an Antenna into TMoIP for processing by a Telemetry Front End (TFE). I created a GUI to communicate via UDP with the bit synchronizer to remotely configure and monitor the status of the bit synchronizer.

- Dec 2022 - February 2023 I developed software to evaluate telemetry data integrate with Air Force standard TM display Curtiss-Wright Real-time and Post-test Interactive Display and Analysis (IADS) software files from simulated TM data. The software can compare IADS data files, parse network capture PCAP Next Generation (PCapNG) file and create IADS data files and parse IADS data files patterns and give reports on data errors. This software has revealed insights into subtle timing issues present on Commercial Off-The Shelf (COTS) TM frontend devices.

-May 2023 - Current I took a leading role alongside my principal engineer on the effort to implement an TM processing upgrade that involved reverse-engineering and re-design of a L3 server-client TM processing system with modern, network, servers and diskless workstations. I configured the Citrix Provisioning server to boot diskless workstations with the same VHDX file with a DHCP, TFTP and PXE server. I configured one server to run IADS to all of the diskless workstations as well as the L3 Vista 550 TFE to work with the Vista Control server on without depending on the old L3 domain controller.

Environmental

JOHN DEWOLFF (23-672-73)

All work experience reviewed by two licensed professionals

DISCIPLINE: ENVIRONMENTAL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/08/2023

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree
5 years, 9 months

Total Engineering Experience
5 years, 9 months

Experience under licensed engineer
9 months

Other Experience
3 years, 8 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Chemical Engineering (EAC)
University of Nevada, Reno
August 2006–May 2010

Waiver Requests: NRS 625.183(4)(B) and NRS 625.390(2)(A)

EXAMS



Principles and Practice of Engineering (PE)
Environmental Nevada
November 2023

Fundamentals of Engineering (FE)
Nevada
October 2009



LICENSES



Additional Licenses
None

WORK EXPERIENCE

Molycorp
California (United States)
Process Engineer
January 2011 — September 2012

Verified by
John DeWolff (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

Oversaw the startup of the catalytic cracking facility.
Wrote SOPs for the new procedures developed.
Did small scale lab testing to answer questions posed by operations.
Performed root cause analysis investigations.
Performed daily QC testing for the first 6 months.
Worked with UV-VIS and XRF.



REPRESENTATIVE PROJECTS

The project was called project phoenix. An entirely new facility was built to replace the older facility that was built in the 1970s. My part was going over engineering designs and helping with the startup of the facility once it was built. I troubleshoot any issues that came up and led small capital projects to make improvements. Including adding a tank to the receiving end to eliminate overflow that was caused by the original design. I had scrubbers hooked up to tanks. I developed SOPs and trained operators on the new procedures for the new equipment.

JOHN DEWOLFF (23-672-73)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Poly-West
Nevada (United States)
Section Coordinator
March 2013—May 2014

Verified by

Experience Summary
Full-Time
Other: 1 year, 2 months
Experience under licensed surveyor:
None



DESCRIPTION

JOHN DEWOLFF (23-672-73)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Sears
Nevada (United States)
Backroom Associate
November 2014—March 2018

Verified by

Experience Summary
Part-Time
Other: 2 years, 6 months (75%)
Experience under licensed surveyor:
None



DESCRIPTION

WORK EXPERIENCE

Armorock
Nevada (United States)
Project Estimator
March 2018—March 2023

Verified by
Timothy Alan Harpster
tim@sunbelteng.com

Experience Summary
Full-Time
Engineering: 5 years
Post EAC degree: 5 years
Experience under licensed engineer:
None



TASKS

I performed take-offs on plans with sewer work on them, I designed manholes, lift stations, wet wells, valve vaults and any other structure a municipality wanted to have corrosion protection built in.

I worked with local agencies in their review process which included making design corrections, providing all required information to local municipalities to get our end of the job approved for production.

I did value engineering to help lower costs to help the company win jobs while also providing a workable solution to the customer.

I performed quality checks on the design of all won jobs. Saving the company roughly a \$100,000 a year in incorrectly made manholes.

I was the lead QC person in the company. I traveled to train new hires at the Texas plant. I implemented new NCR rules to more closely follow Plan-Do-Check-Act. I created Pareto charts to track NCRs. I performed daily quality checks on all outgoing material. I assisted with the ISO 9001 accreditation including updated the Quality Manual, performing internal audits and helping with the renewal audit. I assisted implementing Lean Manufacturing and 5s ideas around the plant.



REPRESENTATIVE PROJECTS

I designed the manholes for Chelford Package 2 in Houston, TX. (2022-2023) I value engineered the manholes to lower costs for the job. This included offering multiple designs for the 40+ manholes and ultimately I ended up designing the manholes to be chimney style with a reduction down to 60-inch diameter.

I designed a chain of 96" diameter polymer concrete flat bottom structures to work in a chain to act as overflow storage for a job in Northern California in 2022. They originally wanted a large 35 foot by 6-foot cylinder laid down sideways. This wasn't something that was possible to be made by our company. So working with the local engineers, I devised the solution for the chain of 96" tanks to match the needed volume.

I drafted in AutoCAD Inventor to scale 3-D shop drawings of the two large junction structures on the 66" westside interceptor job for the Timpanagos Special Service District (2022). These drawings were used to get approval from TSSD for construction as well as shop drawings for the floor to be able to make the unique structures correctly.

I performed take offs and drew the manholes for all jobs requiring polymer in Manatee County, Florida. (2020-2023) All lift stations, manholes within 3 structures from a lift station, drop manholes and turbulent flow manholes were required to be polymer material. Some of the jobs I worked on include Parrish Lakes, Del Webb Bayview's, and many others. I got all the material approved through submittals and we sold over 1000 manholes in the Manatee County area over the years I was working there.

I designed a 14'x16' rectangular wet well for the Edgewater E-4 job in Florida. At the time it was the largest by weight structure ever manufactured by Armorock. (2021)

(2018-2020) Performed Audits to comply with the QMS. Made changes to SOPs and made quarterly updates to the QMS. Upgraded the NCR process to follow the Plan-Do-Check-Act structure. Performed daily inspections and issued all NCRs to management. Conducted weekly NCR meetings and used root cause analysis to fix issues in the plant. Did quality design review on all won projects.

WORK EXPERIENCE

Southern Nevada Health District
Nevada (United States)
Environmental Health Engineer
March 2023—December 2023

Verified by
Daniel Louis Isler
isler@snhd.org

Experience Summary
Full-Time
Engineering: 9 months
Post EAC degree: 9 months
**Experience under licensed engineer:
9 months**



TASKS

Ensure tentative and final maps meet all regulated guidelines.
Approve asbestos permits for licensed contractors.
Verify solid waste permits are acceptable per regulations in the state of Nevada.



REPRESENTATIVE PROJECTS

Verified and approved Finl map for VTS VILLAGE 1 Parcel 1.11 in North Las Vegas, NV.
Reviewed new application for TES-USA's electronic waste recycling center.
Updated the permit for Discount Dumpsters a material recovery facility in North Las Vegas.
Approved asbestos permits to contractors throughout Clark County.
Performed routine inspections to verify compliance to permit at PMR-USA.
Verified the tentative map met guidelines for the Grand Canyon and Washburn project.
Performed Routine inspection at TTT dba Nevada Salvage a recycling center in North Las Vegas.


Fire Protection

MICHAEL AVISSATO (18-466-78)

All work experience reviewed by two licensed professionals

DISCIPLINE: FIRE PROTECTION

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/20/2023

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree
6 years

Total Engineering Experience
6 years, 1 month

Experience under licensed engineer
6 years, 1 month

Disciplinary Action
None reported




EDUCATION



Bachelors in Mechanical Engineering (EAC)
University of Nevada, Las Vegas
August 2010–December 2017

EXAMS



Fundamentals of Engineering (FE)
Nevada
November 2017

Principles and Practice of Engineering (PE)
Fire Protection
Nevada
October 2021



LICENSES



Additional Licenses
None

MICHAEL AVISSATO (18-466-78)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Southland Industries
Nevada (United States)
Design Engineer II
November 2017 – December 2023

Verified by
COREY Wallace
cwallace@southlandind.com

Experience Summary
Full-Time
Engineering: 6 years, 1 month
Post EAC degree: 6 years
Experience under licensed engineer:
6 years, 1 month



TASKS

- 9 Months of BIM Experience
- 5 Years 3 Months Fire Protection Engineering Experience see roles and responsibilities below
- Prepare complete set of code / life safety permit documents for various site projects
- Prepare 2- and 3-dimensional construction documents using AutoCAD and Revit
- Lead team members across multiple projects
- Perform code analysis to ensure required features of fire protection and life safety are appropriately incorporated into designs.
- Developed fire protection reports for new commercial, high rise, low rise, institutional, industrial, and mission critical facilities.
- Designed fire suppression systems for commercial, high rise, low rise, institutional, industrial, and mission critical facilities.
- Developed AM&M (Alternate Means & Methods) to local AHJ to help with performance based design criteria to meet intent of code
- Develop process improvements , workflows , templates to increase design productivity and quality of deliverables.
- Mentor team members
- Fire suppression system research and development
- Coordinate design across construction teams



REPRESENTATIVE PROJECTS

Resorts World Las Vegas 08/17/2018 - 09/28/2021

Resorts World Las Vegas is a resort, mall, and casino on the Las Vegas Strip that cost \$4.3 Billion and took 4 years of development and construction. The site includes the following:

- \$48.5 million fire suppression scope of work
- 2 Wing High-rise Guest Tower
- East Tower and West Tower
- 3,506 guest rooms
- 3 different hotel tenants Hilton, Conrad, Crockfords
- Fire suppression horizontal split case booster pump on 28th floor
- (2) 15,000 gpm water storage tank on the 68th floor
- 5 different standpipe pressure zones
- 8 vertical standpipes in each pressure zone
- 4 different Sprinkler Systems per floor
- 6 egress Stairwells
- Low-rise Casino
- 117,000 square foot casino gaming floor
- 5,000 seat performance theater
- 250,000 square feet of meeting and convention space
- World class luxury spa
- 5.5 Acre 9 Pool complex on top of the low-rise 65 feet above the Las Vegas Strip
- (2) 3,000 gpm horizontal split case site fire suppression booster pumps
- (2) 50,000 GPM water storage tanks
- 2 standpipe pressure zones
- Protected by 60 automatic wet, dry, pre-action, and clean-agent sprinkler systems, along with 2 automatic wet standpipes, 7 automatic dry standpipes.
- 5 alternate means and methods reports for fire suppression to protect architectural features.

- Multi-Level Covered Mall Attached to Low-rise
- 80 foot high atrium
- 25'-0 diameter LED display sphere
- Multiple retail shops, dining, night, and day club
- Roof top convention space.
- 2 six story parking garages with subterraneous parking
- On site facilities management building
- in house paint booth, with fire suppression system
- In house wood working shop, with dust collection fire suppression system.
- In house maintenance and repairs for site.

My role on the Resorts World Las Vegas Project was to help develop and implement the fire suppression design for the entire property. I was responsible for helping determine the sizing of the site and tower fire booster pumps, determining standpipe pressure zones and which floors would need master pressure reducing stations. I also had to determine the sprinkler protection zones for the site and lead a team in preparing the complete permit and field documents each area of the project. This project has 5 alternate means and methods reports that I helped create to address unique architectural challenges that were presented to fire suppression.

Dream Hotel and Casino 10/01/2021 - 01/08/2023

The Dream hotel is a future Boutique Hotel and Casino planed at the southern end of the Las Vegas Strip adjacent to the Henry Reid Internal Airport. It estimated to cost \$600 Million, and currently work has been suspended pending financial funding.

\$4.8 million fire suppression scope

- 19 floor High Rise guest tower
- 100,000 sqft low rise casino
- 45 foot high atrium lobby
- Subterraneous basement, parking garage, and suction fire pump tanks.
- Adjacent parking structure attached to the low-rise.
- (1) 1,500 gpm vertical turbine fire suppression booster pump.
- 23 Wet sprinkler systems, 9 dry sprinkler systems, 1 pre-action, and 1 clean agent system.
- 2 fire suppression standpipe pressure zones.
- 2 master PRV stations

Working on the Dream Hotel and Casino, it was my sole responsibility to carry out the engineering required for the fire suppression scope of the entire site and have it reviewed by my supervisor. I directly worked on sizing the fire pump and secondary water storage tanks, developing the pressure zones for each standpipe system, and determining the sprinkler coverage zones. This project required 2 alternative means and methods reports that needed to be developed to address obstructions to sprinkler discharge in the high atrium lobby. I was also responsible for preparing the complete permit and field documents for this project.

01/08/2023 - Present

Cleveland Clinic Medical Research Laboratories

The Cleveland Clinic research laboratories are two future medical research buildings planned to be built in Cleveland Ohio on the Cleveland Clinic campus starting early 2024. This project consist of two 4 story buildings, each having there own horizontal split case fire pump. Both buildings will have multiple automatic wet sprinkler systems and a manual wet standpipe. One challenge presented on this project was to design and implement a pre-action sprinkler system in the worlds first ever commercial quantum computing space.

EMAD POURYAZDANPANAH Kermani (18-391-05)

All work experience reviewed by two licensed professionals

DISCIPLINE: FIRE PROTECTION

GENERAL



Applying To
Nevada

Application Type
Initial - PE

Application Date
09/02/2022

Citizenship
Iran

SUMMARY

Engineering Experience
after EAC degree

Total Engineering
Experience
3 years, 4 months

Experience under licensed
engineer
3 years, 4 months

Disciplinary Action
None reported



EDUCATION

Meets NCEES Engineering Education Standard

Bachelors in Mechanical Engineering - Heat & Fluid
Islamic Azad University
September 2006–December 2010

Masters in Mechanical Engineering
University of Technology, Malaysia
January 2011–March 2013

Doctorate in Mechanical Engineering
University of Nevada, Las Vegas
September 2015–May 2020

EXAMS

Fundamentals of Engineering (FE)
Nevada
January 2021

Principles and Practice of Engineering (PE)
Mechanical
Nevada
October 2021

Principles and Practice of Engineering (PE)
Fire Protection
Nevada
October 2023

LICENSES

Initial License
Nevada
Issued: November 2022
Expires: December 2023

Additional Licenses
None

WORK EXPERIENCE

Hava Engineering LLC
Nevada (United States)
Engineer
August 2020 – August 2022

Verified by
Ali Eric Javan
Ali@Havaengineering.com

Experience Summary
Full-Time
Engineering: 2 years
Experience under licensed engineer:
2 years



TASKS

I responsible for the overall design of projects which are assigned to me, that the work performed conforms to that described in the contractual agreement with the client.
I receives project assignments from the Project Director and/or Director of Engineering
I Consults with Director of Engineering and/or Project Director on decisions concerning design
I Answers questions and gives daily guidance to project team members, as needed
I do and also checks all technical calculations and drawings for accuracy
I obtains project information from other disciplines and incorporates into projects
I assigns drafters work or may draft the design him or herself, answers their questions, check their work for accuracy
I responsible for design to meet project intent
I conducts site visits and/or verifies field conditions
I address plan check comments and provide response comments/revisions, as needed
I respond to submittals, RFI, and COR and ensure they are answered in a timely manner



REPRESENTATIVE PROJECTS

I have involved in projects as designer as follow:
(Job names- My responsibilities)
* ASI Spencer senior building- I did load calculation, equipment selection and preparing a shop drawing
* Beyond self storage- I did load calculation, Equipment selection and preparing a shop drawing
* Craig road storage- I did load calculation, equipment selection and preparing a shop drawing
* Centennial Commerce Center (warehouse)- I did load calculation, equipment selection and preparing a shop drawing
* Windmill Plaza buildings(5 shell buildings)- I did load calculation, equipment selection, and preparing a shop drawing
* Ihop Las Vegas- I did load calculation, equipment selection and preparing a shop drawing
* Denny's Las Vegas- I did load calculation, equipment selection and preparing a shop drawing
* Foxhill (residential building)- I did load calculation, equipment selection and preparing a shop drawing
* Freedom meat (TI)- I was preparing a shop drawing and make sure the addition is doable with existing system or we need to add a new unit
* FMV fire mesa (TI)- I was preparing a shop drawing and make sure the addition is doable with existing system or we need to add a new unit
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WORK EXPERIENCE

Black and Veatch
Nevada (United States)
Engineer IV
May 2022—December 2023

Verified by
Eric Lee Dein
deine@bv.com

Experience Summary
Full-Time
Engineering: 1 year, 7 months
Experience under licensed engineer:
1 year, 7 months



TASKS

Identify and apply requirements of the state and local codes/standards for each of the project assigned to. (i.e.: IBC, IFC, NFPA, API, etc.)
Identify fire protection requirements of Owners insurance provider and apply to each project. (i.e.: FM, HSB, etc.)
Identify fire water source and evaluate the water quality to determine if treatment is necessary. (i.e.: city, tanks, lake, etc.)
Proactively communicate fire protection requirements and guidance to both internal and external clients.
Generate detailed fire protection and fire pump specifications.
Generate piping and instrument diagrams.
Design fire main layout, identify locations building connection, hydrant placement and generate hydraulic calculations.
Review of detailed sprinkler and alarm drawings, calculations, and cut sheets for accuracy, compliance with contract and codes.
Communications with city and local official. (i.e.: respond to question, submit code variances, etc.)
Independently apply knowledge and maintain culture that supports the implementation of quality.
Evaluate subcontractor fire protection bids and award to the winning bidder.
Respond to fire protection field construction questions.
Ensure compliance with B&V procedures and policies. Maintain a culture of safety.



REPRESENTATIVE PROJECTS

1. Chesterfield Fire Water Loop Design
Dates: 2021 and 2022
Location: City of Chesterfield, Missouri
Project Details: Designed fire water loop, sized main loop, determined pump size, devised water source, and evaluated fire hazard areas. Prepared comprehensive fire hazard report.
2. NuFuels-Biomass Gasification to Hydrogen
Dates: 2021 and 2022
Location: Glenn, California
Project Details: Executed fire water loop design, main loop sizing, pump size determination, water source design, and fire hazard evaluation. Produced a detailed fire hazard report.
3. Point Tupper H2 to NH3 Project
Dates: 2023- Current
Location: Nova Scotia
Project Details: Conducted fire water loop design, main loop sizing, pump size determination, water source design, and fire hazard evaluation. Prepared a comprehensive fire hazard report.
4. Sipre Coosada LNG Project
Dates: 2022-2023
Location: Coodsda, Alabama
Project Details: Led fire water loop design, main loop sizing, pump size determination, water source design, and fire hazard evaluation. Compiled a detailed fire hazard report.
5. North Dakota Hub FEL Project
Dates: 2023-Current
Location: North Dakota
Project Details: Managed fire water loop design, main loop sizing, pump size determination, water source design, and fire hazard evaluation. Developed a thorough fire hazard report. Make sure to fill in the specific start and end years, as well as the locations where needed. This format highlights individual projects, project details, and your personal engineering contributions.


Mechanical

PRASHANTH RAMAKRISHNAN (16-348-56)

All work experience reviewed by two licensed professionals

DISCIPLINE: MECHANICAL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/21/2023

Citizenship
Canada

SUMMARY






Engineering Experience after EAC degree

Total Engineering Experience
6 years, 9 months

Experience under licensed engineer
3 years, 7 months

Disciplinary Action
None reported




EDUCATION



Bachelors in Mechanical Engineering (Unofficial Transcript)
B.S. Abdur Rahman Crescent Institute of Science & Technology
July 2009–July 2013

Masters in Mechanical Engineering
University of Houston
August 2014–May 2016

EXAMS



Fundamentals of Engineering (FE)
Texas
January 2016

Principles and Practice of Engineering (PE)
Mechanical
Texas
June 2023

LICENSES



Additional Licenses
None

PRASHANTH RAMAKRISHNAN (16-348-56)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Shriram SEPL Composites
Tamil Nadu (India)
Graduate Engineer Trainee
July 2013—July 2014

Verified by
Prashanth Ramakrishnan (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

Estimating takeoffs from for capital piping projects involving chemical and power industries. Some of which involved, studying the P&ID and piping isometric to estimate pipe sizes, lengths, pumps, expansions joints etc.

Worked on AutoCAD and CadWorx software packages to develop piping drawing and routings.

Participated in customer meeting alongside senior engineering staff and assisted them with bill of materials, presentations and drawings.

Involved to a limited extent in estimating cost of parts of the project and reviewed it with the manager



REPRESENTATIVE PROJECTS

In this job I had the opportunity to learn more about the hydraulic sizing of steel piping on the basis of pressure, temperature and other factors.

Additionally, I had also learnt about the specific engineering limitations posed by thermal expansion within the steel piping industry. Under the tutelage of my supervisor, I had a good understanding on how to break up and analyze pipe runs for thermal expansion. Through this idea, I had located expansion joints and expansion loops within the piping network whenever the total ΔL exceeded the code dictated value.

WORK EXPERIENCE

B&D Plastics LLC
Mississippi (United States)
Staff Engineer
July 2016—June 2019

Verified by
Thomas L. Reeves
t.reeves@bdplastics.com

Experience Summary
Full-Time
Engineering: 2 years, 11 months
Experience under licensed engineer:
None

TASKS

In this position I was working as a staff mechanical engineer for ASME certified fabricator of fiberglass process equipment. The products I had worked on include large capacity tanks storing corrosive chemicals, exhausts tower and stacks.

I am primary involved in estimation engineering in this role where I will review bid documents such as drawings, specifications and other project documentation to understand the scope of work, estimated material takeoffs and prepare proposal. During the course of this activity I had obtained price quotes and bids from suppliers and subcontractors and evaluated the bid's compliance with project requirements and cost-effectiveness. I had spent about 50 % of my time for this activity.

The remainder of the time I had spent on the design engineering activates which were post purchase. These included formulating design calculations consistent with recognized fiberglass equipment code such as ASME RTP-1, ASTM D4097 and D3299 these calculations were sent to a professional engineer (PE) for stamping.

Additionally, as part of the design engineering I also was responsible for reviewing the vessel fabrication drawings for dimensional accuracies, nozzle orientation, grammatical correctness, flange drilling etc. This will also involve reviewing customer's comments/markups and coordinating with drafting to incorporate necessary changes.

REPRESENTATIVE PROJECTS

#1

Project Name: Flue-Gas Desulphurization (FGD) – Plant Miller
Customer: Evoqua Water Technologies
Location: Quinton, Alabama, United States
Duration: June 2017 to August 2018

Highlights:

I was responsible for the product engineering of this project which involved the design, fabrication, stamping and supply of multiple FRP storage tanks which held a range of process chemicals as part of Flue Gas Desulphurization (FGD) operation in a coal fired thermal power plant.

I was involved in the bid estimation which gave me an idea on the scope of work and budget associated. However, post award I performed a through reading into the specifications and jotted down the key points which would be useful during the design stage

During the design stage, I had worked with the customer's project manager & internal QA/QC to properly execute the User's Basic Requirement Specification (UBRS) which is the first step towards fabricating an ASME RTP-1 equipment. After that, I had worked on design calculation in accordance with ASME RTP-1 code Section 3A: Design by rules wherein I had calculated the minimum thicknesses of various vessel components (shell, top, bottom etc.) on the basis of maximum principle stress theory. Also as part of the environmental design, I had computed the base overturning moments against wind, snow, seismic & rain loads using ASCE 7-10: Minimum Design Loads for Buildings and Other Structures with certain instances where the local state or municipal building codes taking precedence if stringent conditions apply.

During the course of the drawing approval process, I had scheduled a number of virtual meetings where I had discussed a range of design agendas. On one such occasion, I had provided the customer with detailed anchor bolt information (i.e Uplift/pullout & shear loads) and coordinated with the owner's foundation engineers to specify requirements such as pad flatness tolerance, shimming and anchor bolt size.

I had worked with QA/QC Manager to document fabrication errors, prepare a Non-Conformance Report (NCR), establish repair

procedure, get it stamped by the registered professional engineer (P.E) and communicate with the customer for approval.

#2

Project Name: Monsanto - Luling Plant Expansion

Customer/Consultant: Jacobs Engineering

Location: Luling, Louisiana, United States

Duration: April 2018 to February 2019

Highlights:

I was responsible for estimation and design engineering for this project whose scope involved supplying seven (7) ASME stamped fiberglass storage tanks and process vessel as part of Monsanto's Luling Plant expansion.

During the estimation stage I had reviewed over 500 pages of bid documents which encompassed drawing, technical specification, terms & conditions of purchase, vendor selection criteria etc. I had prepared a list of exceptions which were formulated in the technical and commercial proposal package.

Prior to the award of the project, I had participated in second round of pre-bid meeting with the customer, end user (owner) and end user's EPC consultant. During this meeting, I had presented the preliminary engineering data such as vessel weights, loading, shipping method.

I had liaised with a third party consultant in preparing and reviewing ASME design calculations all of these tanks. The scope of these documentation involved calculating design thickness of various pressure boundary parts of the vessel (shell, heads, knuckle) and estimating nozzle loads to evaluate the feasibility of using expansion joints for transmitted local piping loads.

I had also reviewed and applied U.S Occupational Safety & Health Administration (OSHA) CFR 1910.23 fall protections guidance and applied on the design of platforms, ladders, cages and guardrail for some of the tanks supplied which were in excess of 50 feet in height.

I had review and critiqued destructive test reports on fiberglass laminates per ASTM D638, D790 & D2584 for its technical accuracies since it constituted basis of design for certain vessels.

I had worked in close quarters with the project manager to devise an optimum manufacturing strategy. This would done in tandem using design for manufacture approach wherein I tried to minimize production time. On one such example, I had coupled the shell fabrication on two or more tanks into a single production run by keeping the shell thickness similar and/or adding more stiffeners post shell fabrication in lieu of fabricating shell with different thickness.

WORK EXPERIENCE

Industrial Plastics Fabricators Ltd.
Ontario (Canada)
Mechanical Engineer
September 2019—June 2021

Verified by
Mike Paskaruk
mike@ipflimited.com

Experience Summary
Full-Time
Engineering: 1 year, 4 months (75%)
Experience under licensed engineer:
1 year, 4 months



TASKS

In this position I was responsible for estimation, design and project engineering of fiberglass and plastic process equipment such as storage tanks, pressure vessel, air scrubbers, ventilation ducts, hoods and exhaust fans.

During the estimation engineering, I had reviewed & scrutinized project specifications, drawings, and other relevant documents to understand the scope of work, establish detailed quantity takeoffs for materials, labor, and equipment required for the projects. Additionally, I had drafted technical and commercials bid packages as well. I had spent about 30 % of my time for this activity.

I was tasked with post purchase design engineering which included researching the process conditions (chemical composition, temperature etc) to select the appropriate fiberglass and plastics materials. I had also prepared and stamped design calculations consistent with recognized codes & industry standards such as ASME RTP-1, ASTM D4097, ACGIH Industrial Ventilation Manual, National Building Code of Canada (NBCC), CAN/CSA-S16-14 –Design of Steel Structures etc. I had spent about 40 % of my time for this activity.

The remaining 30% of the time I was involved in the project management tasks such as plan and coordinate projects including budgets, timelines and resource allocation, providing periodic reports.



REPRESENTATIVE PROJECTS

#1

Project Name: 8,000 Amp. HVOF (High-velocity Oxy-fuel) Strip Tank
Customer: UTC Aerospace Systems (Collins Aerospace)
Location: Oakville, Ontario, Canada
Duration: November 2019 to May 2020

Highlights:

I had led this project which focused on design, fabrication and install of a custom plating tank for the aerospace plating process. The scope encompasses not only the design of the tank itself by also peripherals such as copper conductors, busbars, ventilation hoods, pumped recirculation system and immersion grid heat exchanger.

During the on-site visit, I had understood that the new tank is to be installed in a very tight space where multiple piping and electrical conduits which ran close by. So I had taken multiple field measurements using a measuring tape and documented it as image files which was in-turn used for developing a 3D model of the existing system whereby I was able to determine and cap the maximum outside dimensions of the new vessel.

In order to arrive at a vessel thicknesses, I had used analytical formulas provided under Roark's Formulas for Stress and Strain - Seventh Edition to calculate the maximum bending stresses & deflections on the shell and flat bottom of the tank against hydrostatic loads. Upon consultation with my supervisor, I was able to arrive at an optimum plate thickness & shell stiffener cross section.

Also, part of the ventilation system for this tank, I had sized up a local downdraft exhaust hood to capture the Sulfuric acid emissions [CAS# 7664-93-9] which is a regulated chemical agent under R.R.O. 1990, Reg. 833: control of exposure to biological or chemical agents. I had referred ACGIH Industrial Ventilation Manual Design to calculate the minimum cross-sectional area for the different sections of the exhaust hood on the basis of code specified control velocities.

I had also supervised and witnessed the installation done by a third-party contractor hired by the customer. The tanks installation was performed by lifting it via overhead cranes and dropping it on an I-beam supports. Prior to the lift, I had ensured that the lifting

straps are adequately choked to the tank so as to avoid sliding and also after the tank was dropped in I had visually inspected the tank to ensure proper spacing and documented it via photographs of measurements.

#2

Project Name: Ventilation System and
Customer: Autotek Electroplating Limited
Location: Etobicoke, Ontario Canada
Duration: October 2020 to April 2021

Highlights:

I was responsible this industrial ventilation project tasked to install custom ventilation system to capture fugitive emissions resulting from a series of plating operations for brake rotor coatings. The detailed scope of the project involved the design and fabrication of custom ventilation hoods, ductwork, scrubber and exhaust fan.

Prior to engineering design I had scheduled multiple site visits with my team to take measurements, photographs to get an idea of the physical space constraints, interconnections, support locations etc. I had used these data to model an overall plant layout using Autodesk Inventor 3D modelling software to properly route & support the ventilation ductwork.

I had also worked with the customer's process engineer to get information on the plating solution chemistry, frequency of operation and solution temperatures to study the feasibility of combining different pollutants arising from each tanks and the resulting effect on the scrubber performance.

I had utilized the design formulas and recommendations provided under ACGIH's Industrial Ventilation Manual to a great extent to evaluate pollutant removal efficiency, pressure drop, and overall system performance.

I have also specified pH & conductivity sensors/controllers to integrate monitoring and control systems for efficient and automated scrubber operation. These sensors monitor the level of contaminations in the scrubber solution which are used a control signal for automatic replacement of storage tanks.

Prior to equipment startup, I had drafted standard operating procedures (SOP) and maintenance schedules in consultation with the supervising engineer. The scope of this document includes items such as step by step procedure for dosing shutdown, valve closing/opening time etc.

WORK EXPERIENCE

Aclarus Ozone Water Systems
Ontario (Canada)
Design Engineer
June 2021 – October 2022

Verified by
Michael Doran
mdoran@aclarusozone.com

Experience Summary
Full-Time
Engineering: 1 year, 4 months
Experience under licensed engineer:
1 year, 4 months



TASKS

Developed & Implemented ozone water treatment solutions for industrial markets encompassing verticals such as municipal wastewater, aquaponics, mining, groundwater & CIP.

Actively involved in R&D work of large ozone generator units including product sourcing, optimization, standardization and market study.

Assisted in the development of technical specifications of ozone water treatment systems to integrate into synergic solutions with ultra-filtration, Reverse osmosis, biological filtration etc.

Advised industrial staff and maintenance personnel on SOP for ozone system operations



REPRESENTATIVE PROJECTS

Project Title: Internal Development of Large Capacity Ozone Generator Units

Scope: To develop large ozone generator units with production capacity range between 0.5 kg/hr to 15 kg/hr.

Some of the activities I tasked are as follows

- Conducted site visits to prospective supplier of the equivalent ozone systems.
- Performed detailed investigation of the use/benefits of Liquid Oxygen (LOX) for operating the ozone generator units.
- Developed detailed analytical calculations to establish fundamental design philosophies and tiering up products. These calculations encompasses designs on structural, electrical, electronics, sensors, heat management, air flow, water flow, ozone safety and oxygen safety etc.
- Created a standardized pricing matrix for all possible options within each tier of the generator for ease of estimation.
- Worked with suppliers and OEMs to get competitive pricing on various sub-assembly on the ozone generators. These included electrical panels, high precision sensors, analyzers, clean tubing, control valves, chillers, heat exchangers, DC power source, isolation transformers, HMI, PLCs etc.
- Consulted with third party research firms to analyze the feasibility of the developed ozone system in target markets.

WORK EXPERIENCE

Koch Separation Solutions / Eco-Tec
Ontario (Canada)
Mechanical Engineer
October 2022 – September 2023

Verified by
Carrie Liu
Carrie.Liu@kss-sep.com

Experience Summary
Full-Time
Engineering: 11 months
Experience under licensed engineer:
11 months



TASKS

In this position, I worked as a Mechanical Design Engineer focusing on the design and fabrication of compact skidded ion-exchange systems which was utilized as a chemical treatment solution for petrochemical and chemical processing clients.

I developed and stamped detailed designs for pressure vessels, considering factors such as dimensions, materials, and structural integrity thereby ensuring its compliance with recognized codes such as ASME BVPC Section VIII Div. 1 & 2, National Board, PED (Europe) etc. Additionally, I had worked closely with process engineers to select appropriate materials for pressure vessel construction considering factors such as corrosion resistance, strength, and thermal properties. I had spent about 40% of my time for this activity.

I had created 3D models and detailed drawings (P&ID, General arrangement & fabrication drawing) for the skidded systems, including structural design on frame, piping drawings, bill of materials etc which were discussed in review meetings with different departments and trades to get feedbacks which were used to modify the above documents later on. This activity has taken up 30% of my time.

The remaining 30% of my time I had worked with internal teams and external partners to effectively develop mechanical package for peripheral components such as control valves, piping, heat exchangers, regulators etc. which involved working with the ERP software to specify work flow and material requisitioning.



REPRESENTATIVE PROJECTS

#1

Project Name: Amine Purification System for H₂S Sweetening Process in Petrochemical Refinery.
Customer: EcoPetrol Reficar
Location: Cartagena, State of Bolívar, Columbia.
Duration: November 2022 to October 2023

Highlights:

I had led this project whose scope is to supply a compact ion-exchange skidded unit which shall tie into an H₂S sweetening operation in a petroleum refinery. The Ion exchange skid worked as a chemical filtration method to remove unwanted ion from the circulated amine solutions that could interfere with chemical reactions or product quality.

I had reviewed over 1000 pages of bid specifications and took notes pertaining to the scope of work and any special requirements which shall be applied during the execution of the project.

Prior to detailed engineering phase I had developed P&IDs which were consistent with ISA 5.1 standard using Autodesk AutoCAD.

I prepared & stamped detailed ASME BPVC Sec. VIII calculations for all the pressure vessel using Codeware COMPRESS software. Occasionally, I have also used FEA software to support code calculations on certain vessel parts where the code doesn't analytically provide design guidance. Additionally, these design would also encompass nozzle load calculations per WRC 107/297 which I had performed.

I had created 3D model of the product as part of the detailed engineering wherein I used PTC Creo and Autodesk Inventor software to model the overall general assembly of the skid, including the support frame design, piping spools, electrical panels, lifting plans etc.

I had prepared datasheets for peripheral mechanical items such as pressure safety valves, control valves, plate heat exchangers, pumps, flow meters, pressure transmitter wherein I had specified operating conditions, special certifications (NACE, PMI etc), testing requirements etc. I had worked in close quarters with the supplier and OEM's engineer to verify the technical compliance of the requested product.

Post production release, I had worked with production and quality control teams to develop material flow processes and inventory control systems to maintain optimal stock levels. Additionally, I have drafted layouts, tooling, and paint specifications for efficient manufacturing operation.

WORK EXPERIENCE

Aqua Metals, Inc.
Nevada (United States)
Mechanical Engineer
September 2023—December 2023

Verified by
James Robert Kenney
jim.kenney@aquametals.com

Experience Summary
Full-Time
Engineering: 3 months
Experience under licensed engineer:
None



TASKS

This is present role where I works as a mechanical engineer. My responsibilities include the following activities.

I am responsible for implementing advanced separation techniques (ion-exchange & solvent extraction) to achieve high-purity material recovery. These would involve running lab scale pilot testing to evaluate the economic and environmental feasibility of new separation processes. Subsequently, analyzing the experimental data & results using statistical methods to draw conclusions. So far, I spend about 40% of my time for this activity.

I am also responsible for design of custom mechanical equipment such as multimedia filters, fiberglass tanks, ASME pressure vessels, compressors and exhausts fans. As a subset of this activity I prepare equipment datasheets, process description, P&IDs and preliminary drawings as documentation accompanying the request for proposal(RFP). Additionally, I work with the drafters in initiating floor plan update and changes as well. I spend about 30% of my time for this activity.

Design custom multimedia filtration techniques for separating out heavy metals in the process stream. A subset of this activity includes conducting analysis on peer reviewed publications, scientific literature and patents to specify proper material selection and design criteria.

The remainder of time I work on the the design of ventilation system of an upcoming plant. This primarily involve planning the design of local exhaust hoods and ductwork for managing off gases generated for electroplating operations. These involve research through regulations to understand safe working limits and exceed environmental compliance requirements.



REPRESENTATIVE PROJECTS

#1

Project Name: Internal Development of custom multimedia filters
Location: McCarran, Nevada, United States.
Duration: October 2023 to present

Highlights:

I am responsible for designing a custom pressure vessel as part of a set of multimedia liquid-liquid filtration skid. This encompasses running preliminary analytical calculations to estimate the quantity and type of sediment media required, sizing vessel cross section for anticipated flows, regeneration techniques and studying cycle times to factor in adequate level of system redundancy.

I also review existing technical literature for design guidance and appropriate material selection on the basis of hydrometallurgical reactions.


I liaise with third party consultants to establish design parameters for a two phase computational fluid dynamics (CFD) design to accurate study the fluid structure interactions thereby optimizing the vessel/process design.

RYAN THOMAS (19-053-51)

All work experience reviewed by two licensed professionals

DISCIPLINE: MECHANICAL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/13/2023

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree
4 years, 11 months

Total Engineering Experience
6 years, 6 months

Experience under licensed engineer
6 years, 6 months

Disciplinary Action
None reported




EDUCATION



Bachelors in Mechanical Engineering (EAC)
University of Nevada, Reno
August 2014–December 2018

EXAMS



Fundamentals of Engineering (FE)
Nevada
July 2018

Principles and Practice of Engineering (PE)
Mechanical
Nevada
November 2023



LICENSES



Additional Licenses
None

WORK EXPERIENCE

ADM
Nevada (United States)
Mechanical Engineer
May 2017—September 2021

Verified by
Mike Matheus
Mike.p.matheus@gmail.com

Experience Summary
Full-Time
Engineering: 4 years, 4 months
Post EAC degree: 2 years, 9 months
Experience under licensed engineer:
4 years, 4 months

TASKS

Mechanical Engineer:

Following IPMVP protocol I perform measurement and verification analyses for both deemed and custom energy conservation measures. I used custom calculations to determine energy savings for a wide range of projects. This included VFDs on motors, high efficiency RTUs, high efficiency chillers, implementation of free cooling and heat recovery. The calculations methods I used included regression analyses, whole building energy models, and basic engineering equations. I did this for both retrofit projects and new construction. For retrofit projects to determine energy savings I could compare how much energy was being used before the upgrade to after. For new construction I had to determine a baseline to compare to energy usage to. I did this by using building codes such as ASHRAE and IECC to find code minimum required efficiencies to calculate a baseline. After a baseline was calculated I would review the mechanical and electrical drawings to get equipment specifications and determine above code energy savings.

REPRESENTATIVE PROJECTS

Tesla Giga factory in Sparks, NV
2018

I reviewed Tesla's heat recovery system that used waste heat from compressed air production for manufacturing processes and heating. I was tasked with determine how much waste heat was being captured and what the energy equivalent would be if it were to come from a different source to determine energy savings. I calculated the total amount of heat that was recovered by using the flow rate and change in temperature in the system.

Edgewood in Stateline, NV
2019

For this custom project, the hotel uses a plate and frame heat exchanger that is connected to the municipal water supply to condition their chilled water loop. They pump water from lake Tahoe through the heat exchanger then into the municipal water supply. To quantify the energy savings from this project I used an ultrasonic flow meter to record flow rate over the course of two months. I used the flow rate along with the change in temperature from the supply and return chilled water supply to calculate the energy savings. I then used this to build a regression analysis that I normalized with weather data to extrapolate the energy savings to the full year.

NV Energy Smart Schools
2018-2021

I lead the review of the NVE Energy Smart School Program, this entailed sampling and reviewing projects that were submitted to the smart schools program. To do this I would use random stratified sampling to select projects to review. The projects consisted of both retrofit and new construction projects. For lighting projects, I would use the difference in lighting wattages and hours of use to determine savings. New construction projects I would use the drawings to find the lighting power density and compare this with the current building code. I calculated HVAC equipment energy savings by comparing the efficiency ratings of the new equipment to the old equipment it was replacing.

Public Service Company of Oklahoma (PSO) cost effectiveness
2019-2021

I determined the cost effectiveness of PSO's energy efficiency rebate programs. To do this I gathered up the energy savings from

all their rebate programs and compared them with the cost of the program using incremental cost, net present value, and future utility rates. For this annual task I built an excel workbook that could quickly and accurately calculate the cost effectiveness ratio for all rebate programs.

WORK EXPERIENCE

McKinstry Essention
Nevada (United States)
Senior Energy Engineer
October 2021 – December 2023

Verified by
Michael Anthony Gross
michaelgr@mckinstry.com

Experience Summary
Full-Time
Engineering: 2 years, 2 months
Post EAC degree: 2 years, 2 months
Experience under licensed engineer:
2 years, 2 months



TASKS

Senior Energy Engineer:

I provide engineering support on energy, lighting and retrofit projects, identifying viable improvement measures related to building and lighting infrastructure. I also work with the Business Development and Program Management staff to establish tactical solutions and strategic sales approach for project proposals.

Project Engineer I-II:

I performed mechanical system design for commercial buildings utilizing Computer Aided Engineering tools and coordinating work between multiple building disciplines. I was in charge of sizing heat pumps, coils, fans, ducts, pumps, expansion tanks, pipes and valves. I used Revit and Bluebeam to make detailed drawings sets that would be used for permitting and construction. I also created energy models with IES VE to calculate heating and cooling loads for buildings.



REPRESENTATIVE PROJECTS

2023

City of Douglas Chiller replacement

As senior energy engineer, I sized and designed an air cooled chiller to replace a water cooled chiller and cooling tower. I drafted the demolition and construction drawings for the project. Part of my role was to coordinate with our structural and electrical design teams to ensure the selected air cooled chiller will work with minimal infrastructural upgrades.

Knappa School District

2023

As project engineer, I designed the HVAC and plumbing systems for this project. I used an energy model to size the heating and cooling loads for the building as well as each space. I used state and local code to determine the required ventilation rates. I also used engineering calculations to size heat pumps, energy recovery ventilators, ducting, fans and piping.

University of Utah Domestic hot water

2022

As project engineer, I designed a domestic hot water heat pump system for 20 separate buildings on the University of Utah campus. For this project I used the existing drawings that ranged from 10-60 years old to develop demo drawings for the existing domestic hot water equipment. The existing systems were either a heat exchanger or electric water heater. I then sized a heat pump hot water heater for each building and used Revit to draw the new system design. I performed the required engineering calculations to ensure the pipes, valves and recirculating pumps were all sized appropriately.


Mining

CAROLYN OSBORN (16-527-26)

All work experience reviewed by two licensed professionals

DISCIPLINE: MINING

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/15/2023

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree
6 years, 7 months


Total Engineering Experience
6 years, 7 months

Experience under licensed engineer
3 years, 10 months

Disciplinary Action
None reported




EDUCATION



Bachelors in Mining Engineering (EAC)
Virginia Polytechnic Institute and State University
August 2011–May 2016

EXAMS



Fundamentals of Engineering (FE)
Virginia
May 2016

Principles and Practice of Engineering (PE)
Mining and Mineral Processing
Nevada
October 2023



LICENSES



Additional Licenses
None

CAROLYN OSBORN (16-527-26)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Westmoreland Coal Company
Wyoming (United States)
Engineer
August 2016—October 2018

Verified by
Donald Philip Crank
dcrank@kemmerermine.com

Experience Summary
Full-Time
Engineering: 2 years, 2 months
Post EAC degree: 2 years, 2 months
Experience under licensed engineer:
2 years, 2 months



TASKS

While working at Westmoreland Coal Company's Kemmerer Mine, I developed short-range and mid-range mine plans using AutoCAD Civil 3D and Runge's XACT Short Range Scheduling Software based on the current haulage profiles, equipment availabilities, production rates and coal blending requirements. I surveyed active mining areas and then using the survey data I collected, I would use AutoCAD Civil 3D to update topographic surfaces which would be used for scheduling. I calculated the remaining coal volumes by pit and by bench using Geovia's Minex software. I designed pits and phases as well as waste facilities, roads, and temporary access ramps using AutoCAD Civil 3D.



REPRESENTATIVE PROJECTS

Highwall Miner – November 2016 to June 2018

I developed detailed weekly mining plans for the highwall miner contractors and worked with the contractors to ensure those plans were carried out to design. I surveyed the designed location for each entry as well as the actual entry locations after each entry was complete. I calculated the coal mined in each entry and compared that to production reports.

Optimizing Equipment Fleet – March 2017 to April 2017

I optimized loading and hauling fleets to efficiently meet annual stripping and production targets. I performed time studies. I analyzed the actual excavator productivity and I compared that to the equipment specifications and industry benchmarks. I performed a productivity analysis for specific fleet configurations and haulage profiles to ensure that the selected options facilitated efficient delivery of annual production targets.

Rephasing and Redesigning of a Pit – May 2017 to August 2018

To achieve increased coal production requirements, I rephased and redesigned a pit that allowed coal to be accessed faster. I designed three phases for this pit that maximized coal production while also incorporating permit boundaries, geotechnical requirements, and operational concerns. I determined the most efficient access point for the pit that minimized haul distance to both the waste facility as well as the tipples while designing the phases. I developed weekly mine plans and presented plans to the operations team. I surveyed the active mining areas daily to update active mining area topographic maps. I compared the survey data to the design to ensure that the pit was being mined to design.

WORK EXPERIENCE

Barrick Gold/Nevada Gold Mines
Nevada (United States)
Mine Planning Engineer
October 2018—July 2021

Verified by
Jesse Douglas Ferris
Jferris@nevadagoldmines.com

Experience Summary
Full-Time
Engineering: 2 years, 9 months
Post EAC degree: 2 years, 9 months
Experience under licensed engineer:
None



TASKS

My first year working at Barrick Gold/NGM's Cortez Mine, I worked as Short Range Mine Planning Engineer. I developed short-range and mid-range mine plans (using Vulcan and Deswik) based on the current haulage profiles, equipment availabilities, production rates, and mill feed targets. I used the survey data generated by our survey team to update topographic surfaces of the active mining areas in Vulcan which I would then export and use in Deswik for scheduling. I would generate short range mine plans (1 week to 1 month) in Deswik Scheduling software and present those plans to the different groups at the site. Each week, I would generate a variance report that would display and explain why any deviations to the plan had occurred.

The remainder of my time with Barrick Gold/NGM's Cortez mine I worked as a Long Range Mine Planning Engineer. I used Vulcan to code in the required engineering variables. I used these variables and the model to generate pit optimizations in Whittle. I then used the Pit by Pit graphs to determine the appropriate revenue factors to use for pushbacks for each pit. I then took the shells that corresponded with the revenue factor selected and designed phases and ultimate pits.



REPRESENTATIVE PROJECTS

Cortez Pits Design - October 2019 to April 2020

This project was to update a pit design using a new geologic and hydrological model. I coded the updated geologic model to include the required engineering variables required for pit optimizations, design, and scheduling. I then used Whittle to generate a pit optimization using the current economics as well as the updated geologic model. I generated the Pit by Pit charts and reviewed the phase selection and ultimate pit selection with my supervisors. This pit ended up having two phases. I then used the pit optimization shells selected for the phases and ultimate pit to design the phases and pits in Deswik CAD. I determined the ramp placement that would not only create the best haul routes to both the mill and waste facility, but also determined which walls within the pit to put the haul road on based on ore location as well as geotechnical sectors. I generated several design options. I calculated the economic value for each design. I evaluated and compared each one to ensure the design selected had the highest economical value and adhered to all safety/geotechnical/mining guidelines. I presented the final design to my supervisors and upper management.

Robertson Mine Design - May 2020 to February 2021

The work I performed for this project was used in the development of a PFS study for a potential mining area for the Cortez Mine. I coded the geologic model provided by the resource geologists to include the engineering variables required for pit optimizations, design, and scheduling. This would be called the engineering model. I then used Whittle to generate a pit optimization using the current economics as well as the updated engineering model. I generated the Pit by Pit charts and reviewed the ultimate pit selection with my supervisors. For this study, there were three separate mining areas/pits to be designed, each only having an ultimate pit design. I then used the pit optimization shells selected for the three pits in Deswik CAD. I determined the ramp placement that would not only create the best haul routes to both the mill and waste facility, but also determined which walls within the pit to put the haul road on based on ore location as well as geotechnical sectors. I generated several design options for each pit. I calculated the economic value for each design option. I evaluated and compared each one to ensure the design selected had the highest economical value and adhered to all safety/geotechnical/mining guidelines. I presented the final design to my supervisors and upper management.

WORK EXPERIENCE

Golder Associates/WSP
Nevada (United States)
Engineer
August 2021 – August 2022

Verified by
Jill Davis
jill.davis@wsp.com

Experience Summary
Full-Time
Engineering: 1 year
Post EAC degree: 1 year
Experience under licensed engineer:
1 year



TASKS

My first year at Golder/WSP I worked as a Long Range Mine Planning Engineer (Full Time). I used Vulcan to code in the required engineering variables. I used these variables and the model to generate pit optimizations in Whittle. I then used the Pit by Pit graphs to determine the appropriate revenue factors to use for pushbacks for each pit. I then took the shells that corresponded with the revenue factor selected and designed phases and ultimate pits in Deswik CAD. I would then use my designs to generate LOM truck-limited schedules using fleet requirements, availabilities, utilizations, and blending requirements in Deswik Sched, Deswik LHS, and Deswik Blend.



REPRESENTATIVE PROJECTS

Southern Copper, Mexico, La Caridad and El Pilar Mine - October 2021 to February 2022.

The work I performed for this project was used in the development of a PFS study for a new mining area (El Pilar) and updating the ultimate and phase designs for an active mining area. I coded the geologic model provided by the resource geologists to include the required engineering variables required for pit optimizations, design, and scheduling. I then used Whittle to generate a pit optimization using the current economics as well as the updated block model. I generated the Pit by Pit charts and reviewed the ultimate pit selection with my supervisors. For El Pilar, there were 4 phases, and for La Caridad there were 3 phases. I then used the pit optimization shells selected to create the ultimate and phase designs for both El Pilar and La Caridad in Deswik CAD. I determined the ramp placement that would not only create the best haul routes to both the mill and waste facility, but also determined which walls within the pit to put the haul road on based on ore location as well as geotechnical sectors. I ensured that my designs generated the highest economical value and adhered to all safety/geotechnical/mining guidelines. I developed a truck-limited Life-Of-Mine plan from my designs for both El Pilar and La Caridad using Deswik Sched and Deswik LHS (haulage software). I then calculated the reserve and resource numbers included in the report submitted to the SEC.

Itofos Arrias, Brazil - April 2022 to September 2022

The work I performed for this project was used in the development of a PFS study for a mine that had previously failed 3 times because of the inability to adhere to strict grade limits required by the mill. This mill was built before the deposit was fully examined, which is why the criteria was so strict and did not necessarily match the deposit. I coded the geologic model provided by the resource geologists to include the required engineering variables required for pit optimizations, design, and scheduling. I then used Whittle to generate a pit optimization using the current economics as well as the updated block model. I generated the Pit by Pit charts and reviewed the ultimate pit selection. The mill required certain lithologies to be blended together as well as a strict P2O5 grade limit. Instead of traditional phasing that advanced in one general direction, I developed six sections, each with different lithology and grades to ensure that I would have material for blending through each period of the mine life. I then scheduled these sections (without ramps) to determine when each phase would need to be mined in order to generate the appropriate amount of material in each of the stockpiles so that there would always be a continuous feed of blended ore. Once I determined the sequence, I could establish ramps for each section/phase that followed that sequence without mining out any accesses. I then scheduled the phased designs with ramps and used Deswik Blend (a blending software that assists with ensuring for each period specified stays within the target lithology and grade ranges) to develop a truck-limited schedule. I then created/calculated a reserve and resource table included in the PFS report.

WORK EXPERIENCE

Golder Associates/WSP
Nevada (United States)
Engineer
August 2022—November 2023

Verified by
Jill Davis
jill.davis@wsp.com

Experience Summary
Part-Time
Engineering: 8 months (50%)
Post EAC degree: 8 months (50%)
Experience under licensed engineer:
8 months



TASKS

After my first year at Golder/WSP, I continued to work as a Long Range Mine Planning Engineer, but elected to move to a part time schedule. I maintained the same responsibilities I had while I was full time.
I used Vulcan to code in the required engineering variables in the geologic block models. I used these variables and the model to generate pit optimizations in Whittle. I then used the Pit by Pit graphs to determine the appropriate revenue factors to use for pushbacks for each pit. I then took the shells that corresponded with the revenue factor selected and designed phases and ultimate pits in Deswik CAD. I would then use my designs to generate LOM truck-limited schedules using fleet requirements, availabilities, utilizations, and blending requirements in Deswik Sched, Deswik LHS, and Deswik Blend.



REPRESENTATIVE PROJECTS

Itafos Conda, Idaho, USA - May 2023 to September 2023
The work I performed for this project was used in the development of a PFS study for two new pits, NDR and Husky. I coded the geologic models provided by the resource geologists to include the required engineering variables required for pit optimizations, design, and scheduling. I then used Vulcan to generate a pit optimizations using the current economics as well as the updated block model. I verified the pit optimization results in Whittle. I generated the Pit by Pit charts and reviewed the ultimate pit selection with my supervisors. For NDR, four phases were used while in Husky there were nine phases. I designed the phases for Husky and NDR in Deswik CAD. I determined the ramp placement that would not only create the best haul routes to both the mill and waste facility, but also determined which walls within the pit to put the haul road on based on ore location as well as geotechnical sectors. I ensured that my designs generated the highest economical value and adhered to all safety/geotechnical/mining guidelines. I also designed the ex-pit overburden storage facilities as well as the in-pit backfills. I calculated the mass balance to ensure that the waste from each phase would fit in the previously mined out phase. I developed two separate truck-limited Life-Of-Mine plans from my designs (one for Husky and one for NDR) using Deswik Sched and Deswik LHS (haulage software). I then calculated the reserve and resource numbers included in the report submitted to the SEC.

Structural

MOHAMMED BALA (14-844-09)

All work experience reviewed by two licensed professionals

DISCIPLINE: STRUCTURAL

GENERAL




Applying To
Nevada

Application Type
Comity - PE

Application Date
12/21/2023

Citizenship
United States

SUMMARY









Engineering Experience after EAC degree
6 years, 9 months

Total Engineering Experience
6 years, 9 months

Experience under licensed engineer
6 years, 9 months

Other Experience
7 months

Disciplinary Action
None reported



EDUCATION




Bachelors in Civil Engineering (EAC)
University of Southern California
August 2012–December 2015

Masters in Civil Engineering
University of Southern California
December 2015–May 2016

NOTE: First discipline specific structural license.

EXAMS




Fundamentals of Engineering (FE)
California
July 2014

Principles and Practice of Engineering (PE)
Civil
California
April 2017

NCEES 16HR Structural (SE)
Arizona
October 2023

LICENSES



Initial License
California
Issued: December 2017
Expires: March 2024

Additional Licenses
None

WORK EXPERIENCE

Fluor
California (United States)
Design Engineer
June 2016—February 2021

Verified by
Erik Luna Espinoza
erik.espinoza@fluor.com

Experience Summary
Full-Time
Engineering: 4 years, 8 months
Post EAC degree: 4 years, 8 months
Experience under licensed engineer:
4 years, 8 months



TASKS

As a Design Engineer at Fluor I am responsible for the design and analysis of industrial support structures at various client facilities. My duties include analysis based on the specifications of the IBC, IEBC, ASCE 7, ACI 318, AISC 360, and requirements associated with any local jurisdictions. My role on projects typically involves generating finite element models for the analysis of existing and new structures, generating calculation packages, design and detailing of structural construction drawings, and providing construction support to contractors implementing our design. I routinely work on the design of new or retrofit of existing concrete foundations and the design of new steel framing. My work almost always includes the consideration and analysis of structures based on code stipulated seismic and wind lateral loads.



REPRESENTATIVE PROJECTS

- Crescent Dunes Solar Energy Project (June 2016 – December 2016) – I designed structural steel supports for mechanical piping in a concrete solar tower. Based on the number of load cycles seen at each support, I calculated the allowable stress ranges for fatigue per AISC 360 and detailed supports to accommodate stress limits. Additionally, I designed anchorage of supports to the concrete walls of the tower with post-installed adhesive anchorage per the guidelines of ACI 318.
- West Plant Flare Project (Design) (January 2017 – April 2017) – I designed structural steel pipe supports and associated connections for various locations across Marathon's Detroit refinery. I utilized RISA 3D to create structural models of supports and analyzed for gravity and lateral loads calculated per ASCE 7. I detailed steel members and connections for construction documents.
- Total Tier III Gasification Project (May 2017 – August 2017) – I performed analysis on a three-level structural steel module planned for Total's Port Arthur refinery in order to determine feasibility for the project. The analysis I performed included consideration of dead, live, wind, and seismic loads, selection of a lateral force resisting system (ordinary moment frame), and generation of a structural analysis model. I also configured the pile layout and performed the associated analysis to determine the required number of helical piles for the module foundation.
- Los Angeles Refinery Integration and Compliance Project (LARIC) (September 2017 – March 2018) – I worked onsite at the Tesoro Los Angeles refinery during the LARIC project construction phase to organize and warehouse structural steel required for Fluor's engineering design. I responded to requests for information from the site contractor associated with any construction errors or engineering omissions. Additionally, I reviewed engineering submittals such as reinforcement detail drawings and concrete mix designs.
- West Plant Flare Project (Construction) (April 2018 – May 2018) – I worked onsite at the Marathon Detroit refinery during the West Plane Flare project construction phase to provide an immediate response to any requests for information or construction issues that might delay the project schedule. I also reviewed engineering submittals such as reinforcement detail drawings and concrete mix designs to ensure they conformed to engineering specifications.
- Substation 4 Replacement Project Phase 2 (June 2018 – August 2018) – In the feasibility phase (phase 2) of the substation 4 replacement project, I conducted field visits and determined a series of locations for new structural steel cable tray supports and associated spread foundations. I performed an analysis to size structural steel members for each support and the associated foundation size. I used the calculations and layout I produced to provide the project with a material estimate for budgeting purposes.
- LAX Automated People Mover Project (September 2018 – September 2019) – I coordinated permitting for stations, roadways, and bridges with the Los Angeles Departments of Public Works and Building and Safety. I met with City agencies weekly to discuss project scope, associated permit requirements, and deliver civil, architectural, structural, mechanical, electrical, and plumbing plans.
- Substation 4 Replacement Project Phase 3 (October 2019 – December 2019) – In the definition phase (phase 3) of this project I performed an analysis of an existing 200-foot-long multilevel structural steel pipe rack. I modeled the rack in RISA 3D based on existing drawings and analyzed the rack for estimated existing dead loads and seismic loads calculated per ASCE 7. I determined that the rack was acceptable for additional cable tray-loading based on the provisions of the International Existing Building Code.

- FCC Debottleneck Project (January 2020 – February 2020) – I designed a retrofit for two existing concrete vertical vessel foundations. The design involved calculating load demand on the vessels based on operating conditions, wind load, and seismic loads per ASCE 7. After loads were generated, I calculated demand on new reinforced concrete and sized and detailed reinforcing accordingly.
- Project Icon (March 2020 – Current) – I created a SAP 2000 structural analysis model with over 90000 joints and over 30000 shell elements for analysis of a massive steel mill. I am currently using the model to determine slab, wall, column, and beam forces for concrete reinforcement design.

MOHAMMED BALA (14-844-09)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Fluor
California (United States)
Design Engineer III
March 2021—May 2022

Verified by
Erik Luna Espinoza
erik.espinoza@fluor.com

Experience Summary
Full-Time
Engineering: 1 year, 2 months
Post EAC degree: 1 year, 2 months
Experience under licensed engineer:
1 year, 2 months



TASKS

**This entry is a continuation of my previous entry which was already completed when I last updated my record. I was employed at Fluor from June 2016 to May 2022.

As a Design Engineer at Fluor I was responsible for the design and analysis of industrial support structures at various client facilities. My duties include analysis based on the specifications of the IBC, IEBC, ASCE 7, ACI 318, AISC 360, and requirements associated with any local jurisdictions. My role on projects typically involved generating finite element models for the analysis of existing and new structures, generating calculation packages, design and detailing of structural construction drawings, and providing construction support to contractors implementing our design. I routinely worked on the design of new or retrofit of existing concrete foundations and the design of new steel framing. My work almost always included the consideration and analysis of structures based on code stipulated seismic and wind lateral loads.



REPRESENTATIVE PROJECTS

- Regen Cyclones Replacement Project (April 2021 – October 2021) - I designed auxiliary structural steel framing for cat walks and piping that had to be replaced due to a large vessel replacement at the FCC unit in the MPC Anacortes refinery. I generated man hour and material estimates to take this project from a design development to execution phase.
- Effluent Exchangers Project (April 2021 – October 2021) - I designed foundation retrofits and a piping support structure necessary for the replacement of two stacked heat exchangers near the ISOM/NHT units of the MPC Anacortes refinery. The support structure was designed in consideration of seismic loading requirements of ASCE 7 and requirements of AISC 360. Foundation retrofits were designed in consideration of concrete strength and anchorage requirements of ACI 318.
- Coker 1 LOPA GAP Closure Project (November 2021 – April 2022) - Analyzed existing Coker 1 structure in the MPC Carson Refinery for increased gravity and lateral loads associated with new valves at the cutting deck level based on the requirements of ASCE 7, IEBC, and AISC 360. Produced calculation report and retrofit plans based on findings.

MOHAMMED BALA (14-844-09)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Safehub
California (United States)
Solutions Engineer
May 2022—December 2022

Verified by

Experience Summary
Full-Time
Other: 7 months
Experience under licensed surveyor:
None



DESCRIPTION

MOHAMMED BALA (14-844-09)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Bechtel (contracted through staffing agency CPS Comtech)
Florida (United States)
Structural Engineer
January 2023—December 2023

Verified by
Kevin MacLeod
kdmacleo@bechtel.com

Experience Summary
Full-Time
Engineering: 11 months
Post EAC degree: 11 months
Experience under licensed engineer: 11 months



TASKS

In this role, my responsibilities have been exclusively related to engineering, involving the analysis, design, and detailing of structural steel intended to support various commodities, such as piping, cable tray, and equipment. My work has included updating structural models created using the STAAD program, generating templates and sheets for connection design calculations, originating calculations, and updating drawings issued as part of the commodity steel package. My daily tasks heavily rely on the use and reference of applicable standards and guidelines, such as AISC 325/AISC 360, along with various AISC design guidelines, which provide methodologies for connection design.

Additionally, after the issuance of drawing packages, a substantial portion of my work has involved supporting fabrication by reviewing and responding to requests for information. My coordination with fabrication typically involves reviewing an issue or discrepancy in the design, providing a solution, and updating the calculation and drawing packages as necessary, before issuing a change notice along with the response. There is a continual need to revisit and contribute to both calculations and structural details due to ongoing coordination with fabricators.



REPRESENTATIVE PROJECTS

During my contract with Bechtel, I have been exclusively engaged in NASA's Mobile Launcher 2 Project. This project focuses on designing and constructing a significant launch structure at Kennedy Space Center, intended for future space missions. My role has primarily involved supporting the finalization of the base design and coordinating with fabricators. I have primarily conducted analysis, design, and detailing of structural steel, which is engineered to support various commodities like piping and equipment. As the project has progressed, I have been able to contribute to various aspects of the project scope, specifically in areas requiring coordination with fabricators.

MICHAEL BARBER (14-565-12)

All work experience reviewed by two licensed professionals

DISCIPLINE: STRUCTURAL

GENERAL




Applying To
Nevada

Application Type
Comity - PE

Application Date
12/20/2023

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree

Total Engineering Experience
10 years, 7 months

Experience under licensed engineer
9 years, 4 months

Disciplinary Action
None reported



EDUCATION




Non-degree
SUNY Alfred State
August 2003–May 2005

Bachelors in Interdisciplinary Engineering and Management
Clarkson University
August 2005–May 2013

NOTE: First discipline specific structural license.

EXAMS



Principles and Practice of Engineering (PE)
Civil
Nevada
October 2014

Fundamentals of Engineering (FE)
New Hampshire PE
October 2013

NCEES 16HR Structural (SE)
New York
October 2023

LICENSES



Initial License
Nevada
Issued: November 2017
Expires: December 2024

Additional Licenses
None

MICHAEL BARBER (14-565-12)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Barber Corporation
New York (United States)
Construction Engineer
May 2013—August 2014

Verified by
Larry Barber
lb@barbercorp.net

Experience Summary
Full-Time
Engineering: 1 year, 3 months
Experience under licensed engineer:
None

TASKS

At Barber Corporation, my job title was Construction Engineer and my primary duties were to provide technical support for heavy construction operations. My main responsibilities included planning and designing various temporary structures, equipment access platforms, horizontal and vertical lifeline systems, excavation support systems, preparing demolition plans, and designing job-built concrete formwork systems for horizontal and vertical applications.

REPRESENTATIVE PROJECTS

Unless Noted Otherwise:

Concrete designs were per Building Code of New York State (BCNYS) and American Concrete Institute (ACI) 318 (ACI)

Structural steel designs were per BCNYS and American Institute of Steel Construction (AISC).

SF = square foot

AASHTO = AASHTO LRFD Bridge Design Specifications.

NAVFAC = NAVFAC DM-7.2 Foundations and Earth Structures

Bowles = Foundation Analysis and Design by Joseph E. Bowles

CDGC = Construction Dewatering and Groundwater Control by Powers, Corwin, Schmall, and Kaeck.

HHS = Hydrology and Hydraulic Systems by Ram Gupta

USS = USS Steel Sheet Piling Design Manual

Ellis = Introduction to Fall Protection by J. Nigel Ellis

CONSTRUCTION ENGINEER (5/2013 – 8/2014)

Headrace Canal and Intake Rehabilitation, Deferiet, NY (3.5 months): Project consisted of vertical concrete repair (200FT Long x 20 FT High) of headrace canal; replacement of lift gates, stoplogs, trashracks, and canal dredging at a hydroelectric power generation facility. I designed falsework and temporary support systems per OSHA, AISC 360, NDS, APA and ASCE 37. I designed fall protection and temporary safety barrier systems per OSHA, AISC 360, ASCE 37, and Ellis. I performed stability analysis for use of 120-ton crawler crane. I calculated track pressures and determined crane pad foundation and steel road plate sizes and configurations. I designed concrete formwork per ACI 347, NDS, and APA.

Oswego Sheet Pile Bulkhead Rehabilitation (510 LF), Oswego, NY (1.5 months): I designed concrete formwork for concrete pile caps using ACI 347, NDS, and APA specifications. I designed temporary shoring for dock fingers per AISC 360, NAVFAC, and Bowles. I designed temporary access platforms for drilling equipment per OSHA, ASCE 37, AISC 360, and NDS specifications.

Massey Street Bridge Rehabilitation (5 Span, 2 Lane, 350 FT), Watertown, NY (3.5 months): I performed analysis of existing superstructure to plan demolition activities using AASHTO Standard Specifications 17th edition, AISC 360 9th edition, NDS, and OSHA Specifications. I designed falsework and temporary support systems per OSHA, AISC 360, NDS, APA and ASCE 37. I designed concrete formwork per ACI 347, NDS, and APA. I performed preliminary design of structural lifting per AASHTO, AISC 360, ACI 318 and ASCE 37. I designed fall protection tie offs and temporary barriers in accordance with OSHA specifications, AISC 360, ASCE 37 and Ellis. I performed crane and crane pad foundation stability analysis for 90-ton truck crane. I designed a lifting beam per ASME BTH-1 and Engineering Journal paper Design and Construction of Lifting Beams by David Ricker.

Village of Phoenix Sanitary Sewer (3600 LF), Phoenix, NY (2.5 months): Project consisted of installing 3,000 LF of 18" sanitary piping and 600 LF of 12" to 48" stormwater piping. I performed the analysis and design of excavation support systems per 29 CFR 1926 OSHA Subpart P and AISC 360 with guidance from USS, NAVFAC, and Bowles for engineer review. I designed temporary bypass pumping systems using CDGC and HHS for engineer review. I planned the execution of work zone traffic control operations per project specifications and the Manual on Uniform Traffic Control Devices (MUTCD). I reviewed shop drawings, shop drawings, and submittals from vendors and subcontractors. I prepared and maintained a CPM schedule using Primavera

P6.

Bridge 15 Design-Build, Fort Drum, NY (4 months): Project consisted of design-build to remove and replace existing culvert with new, 14 FT wide x 20 FT long, three sided precast concrete culvert on a deep foundation. I designed a cofferdam using AISC 360 and USS, NAVFAC, and Bowles for engineer review and approval. I designed bypass pumping systems using CDGC and HHS for engineer review and approval. I performed causeway and temporary stream diversion calculations to verify construction activity would not adversely affect stream hydraulics using CDGC and HHS for engineer review. I performed preliminary analysis of three-sided rigid concrete culvert using vehicular live loading per AASHTO and 70-ton military loading per FM 3-34.343 to determine preliminary reactions for foundation design. I performed preliminary design of deep foundations using HP 12x53 piles per AASHTO. I performed preliminary design of reinforced concrete pile caps per ACI 318 and AASHTO.

MICHAEL BARBER (14-565-12)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

GYMO, DPC
New York (United States)
Civil Engineer
August 2014—January 2016

Verified by
Ryan Graham Churchill
ryan356@mail.com

Experience Summary
Full-Time
Engineering: 1 year, 5 months
Experience under licensed engineer:
1 year, 5 months



TASKS

My engineering duties during my employment with GYMO, DPC included stormwater management system analysis and design, site layout and grading, structural analysis and design of retaining structures, buried conduits and hydraulic structures, as well as the preparation of construction documents, specifications, cost estimates and shop drawing review.



REPRESENTATIVE PROJECTS

Unless noted otherwise:

Concrete designs were per Building Code of New York State (BCNYS) and American Concrete Institute (ACI) 318 (ACI)

Stormwater management system analysis and designs were per the New York State Department of Conservation (NYSDEC)'s New York State Stormwater Design Manual.

AASHTO = AASHTO LRFD Bridge Design Specifications

NAVFAC = NAVFAC DM-7.2 Foundations and Earth Structures

Bowles = Foundation Analysis and Design by Joseph E. Bowles

SF = square foot

CIVIL ENGINEER (8/2014 – 1/2016)

Longhorn Restaurant (6,000SF), Watertown, NY (3.66 months): I designed the stormwater management system. I designed 445 FT of 84" corrugated metal drainage pipe (CMP) using Hydrology and Hydraulic Systems by Gupta and AASHTO. I designed a 140 FT long x 11 FT high segmental retaining wall with 8 FT retained height using The Design Manual for Segmental Retaining Walls by NCMA. I designed an underground stormwater detention system for water quality and runoff reduction per NYSDEC's New York State Stormwater Design Manual. I designed flexible pavement sections per AASHTO Guide for Design of Pavement Structures.

Lowville Storm Sewer (3,000 LF), Lowville, NY (.2 months): I designed the stormwater management system for the site.

Washington Office Building (120 LF), Watertown, NY (.54 months): I designed a 120 FT long timber guide rail with drilled shaft foundations in accordance with AASHTO provisions and ANSI/AWC NDS National Design Specification (NDS) for Wood Construction.

Bonisteel Retail Plaza (5,000 SF), Adams, NY (.64 months): I performed soil percolation tests per the Individual Residential Wastewater Treatment Systems Design Book by the New York State Department of Health. I designed the stormwater management system. I performed traffic studies and calculated sight distances per Design of Highways and Streets by AASHTO.

Bradley Park (6,000 SF), Watertown, NY (.5 months): I designed the stormwater management system for the site.

Johnson Development (40 Acres), Carthage, NY (3 months): I prepared a Stormwater Pollution Prevention Plan (SWPPP) and Erosion and Sediment Control Plan per the New York State Stormwater Design Manual and NYSDEC New York State Standards and Specifications for Erosion and Sediment Control. I designed the stormwater management system.

Wellesley Fire Protection Pump Station (2,000 SF), Wellesley, NY (.4 months): I designed 200 FT of 20" diameter ductile iron intake pipe to be submerged at the bottom of St. Lawrence River. I designed concrete pipe collars to resist buoyancy forces. I performed a stability analysis and design of a temporary earth/rock filled cofferdam using Bowles. I prepared a report outlining an opinion of probable cost.

Stebbins Subdivision (40 Acres), Black River, NY (4 months): I prepared a Stormwater Pollution Prevention Plan per NYSDEC. I

designed the stormwater management systems for the site. I designed the sanitary sewer system per 10 States Standard. I designed roadway corridors per the Geometric Design of Highways and Streets published by AASHTO. I designed flexible pavement sections per AASHTO Guide for Design of Pavement Structures.

Leray Dam Evaluation, Fort Drum, NY (.4 months): I performed stability calculations of the existing dam per procedures in the NYSDEC's Guidelines for Design of Dams and the US Bureau of Reclamation's Design of Small Dams.

Mexico Retaining Wall (200 FT long 10 FT high), Mexico, NY (1.5 months): I designed a 190 FT long x 12 FT high concrete retaining wall with 10 FT retained height. I designed heavy duty flexible asphalt pavement to resist outrigger and wheel loads from fire trucks using manufacturer provided axle loading and AASHTO Guide for Design of Pavement Structures.

Fort Drum Housing Structural Condition Assessment, Fort Drum, NY (.5 months): I performed structural condition assessments of (3) timber and (2) masonry structures. I documented deficiencies of timber support columns, truss members and concrete masonry foundation walls. I performed structural analysis calculations of the documented conditions and prepared reports containing findings, photographs, and recommendations for repairs.

10th Mountain Monument Foundation (20 FT High), Watertown, NY (1 months): I designed the concrete foundation for a 6 FT x 8 FT x 20 FT granite monument.

Rouse Retaining Wall, Clayton, NY (.67 months): I designed a 225 FT long x 16 FT high concrete seawall along the St. Lawrence River. I designed the concrete foundations at the shoreline for (2) 45 FT long x 4 FT wide dock fingers.

MICHAEL BARBER (14-565-12)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

C&S Engineers, Inc.
New York (United States)
Senior Project Engineer
January 2016—December 2023

Verified by
Joseph Daniel Nadzan
jnadzan@cscos.com

Experience Summary
Full-Time
Engineering: 7 years, 11 months
Experience under licensed engineer:
7 years, 11 months



TASKS

My engineering duties during my employment with C&S Engineers are as follows: civil/structural analysis and design of structural steel, reinforced concrete, wood and masonry structures, hydraulic and marine structures, and long-span structures. My duties also include developing finite element analysis models, preparation of construction documents, writing specifications, developing cost estimates, and reviewing shop drawings.



REPRESENTATIVE PROJECTS

Unless noted otherwise:

Concrete designs were per Building Code of New York State (BCNYS) and American Concrete Institute (ACI 318)

Structural steel designs were per BCNYS and American Institute of Steel Construction (AISC 360).

Wood designs were per BCNYS and National Design Specification for Wood Construction (NDS).

Reinforced Masonry Designs were per BCNYS and The Masonry Society & American Concrete Institute (TMS402/602).

Cold Formed Metal Framing (CFMF) designs were per BCNYS and American Iron and Steel Institute (AISI S100)

AASHTO = AASHTO LRFD Bridge Design Specifications

SF = square foot

ENGINEER (1/2016 – 12/2019)

CPP Furnace Pit (20 FT W x 20 FT L x 14 FT D), Chittenango, NY (1 month): I designed concrete pit.

NYS Police Tower (144 SF x 60 FT Tall), Syracuse, NY (1 months): I designed structural steel and concrete foundations.

Novelis Addition (4,500 SF), Oswego, NY (2 months): I designed structural steel, masonry walls, CFMF and concrete foundations.

NR Animal Facility (20,000 SF), North Rose, NY (3 months): I designed concrete foundations and pits.

Industrial Building (45,000 SF), Syracuse, NY (1.5 months): I designed concrete foundations.

ARFF Building (1,000 SF), Plattsburgh, NY (.5 months): I designed steel roof framing, masonry walls, and concrete foundations.

Security Building (3,000 SF), Oswego, NY (1 months): I designed structural steel, masonry walls, and concrete foundations.

Plattsburgh Airport Hangar (15,000 SF), Plattsburgh, NY (3.35 months): I designed structural steel and concrete foundations.

Building 100 (15,000 SF), Rome, NY (4 months): I designed structural steel and concrete foundations.

Hangar 11 and 12 (54,000 SF) Allentown, PA (10 Months): I designed micropiles, pile caps, concrete pedestals per Uniform Construction Code of Pennsylvania, PENNDOT, AASHTO, and ACI. I designed structural steel per Uniform Construction Code of Pennsylvania and AISC 360.

Forge (70,000 SF), Phoenix, NY (3 months): I designed concrete foundations.

ARFF Building (35,000 SF), Wappingers, NY (5.5 months): I designed structural steel and concrete foundations.

M15 Conveyor (750 feet tall and 120 feet long), Lansing, NY (2.5 months): I designed structural steel and concrete foundations.

Arconic Enclosure (3,300 SF), Massena, NY (1.5 months): I designed structural steel and concrete foundations.

Facility, Millville, NJ (.5 months): I designed concrete foundations for (4) 12,000 gallon tanks and steel per New Jersey Building Code (NJBC) and ACI.

Hydro (1,500 SF x 50 FT D), Auburn, NY (5 months): I designed structural steel, concrete pits and foundations.

Elmira Building (1500 SF), Horseheads, NY (.5 months): I designed concrete foundations.

Tonawanda Facility (1300 SF), Tonawanda, NY (.5 months): I designed wood framing, reinforced masonry walls, and concrete foundations.

Alcoa Platform (1500 SF), Massena, NY (1.25 months): I designed steel platforms and framing. I analyzed existing structure to support new platforms.

PROJECT ENGINEER (1/2020 – 11/2020)

SOS Center (100,000 SF), Goshen, NY (1.25 months): I designed concrete foundations and reviewed steel calculations.

Orange SRE (1600 SF), Rock Tavern, NY (.52 months): I designed structural steel and concrete foundations.

Salina (10000 SF), Syracuse, NY (.38 months): I designed CFMF.

Ocean Hangar (40,000 SF), Toms River, NJ (1.17 months): I designed concrete foundations per New Jersey Building Code (NJBC) and ACI.

Terminal Building (5,000 SF), Oswego, NY (1.31 months): I designed structural steel and concrete foundations.

Towers W and Z (800 SF, 70-FT-tall), Syracuse, NY (1.76 months): I designed structural steel.

LIMA Terminal (35,000 SF), Long Island, NY (1.76 months): I designed structural steel and concrete foundations.

Port Oswego, Oswego, NY (1.52 months): I designed concrete foundations and structural steel for grain conveyance pits (15 FT W, 75 FT L, 12 FT D) and 120 FT diameter bin.

Arena Analysis (190,000 SF), Buffalo, NY (1.12 months): I analyzed structural steel, concrete masonry shear walls, roof diaphragms.

SR. PROJECT ENGINEER (12/2020 – 12/2023)

Motor Foundation, Oswego, NY (5.5 months): I analyzed and designed concrete foundations and anchorage for (2) 6000 HP motors for reversing mill.

Industrial Structural Design, Oswego, NY (2 months): I designed structural steel platforms, coil racks, scalper rails, stairs, pulpit structure.

Manufacturing Facility, (40,000 SF) Greene, NY (11.5 months): I designed the structural steel and concrete foundations.

Blending Facility, (40,000 SF) Arkport, NY (11 months): I designed structural steel and concrete foundations.

Personnel Building (35,000 SF), Oswego, NY (6 months): I designed structural steel and concrete foundations.

ANDREW BROCK (14-113-84)

All work experience reviewed by two licensed professionals

DISCIPLINE: STRUCTURAL

GENERAL




Applying To
Nevada

Application Type
Comity - PE

Application Date
12/13/2023

Citizenship
United States

SUMMARY







Engineering Experience after EAC degree

Total Engineering Experience
10 years, 5 months

Experience under licensed engineer
6 years, 11 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Construction Engineering Technology (ETAC)
University of Toledo
August 2009–May 2013

Masters in Civil Engineering
Ohio University
January 2016–December 2017

NOTE: First discipline specific structural license.

EXAMS



Fundamentals of Engineering (FE)
Ohio
April 2013

Principles and Practice of Engineering (PE)
Civil
Pennsylvania
October 2017

NCEES 16HR Structural (SE)
Ohio
October 2023

LICENSES



Initial License
Pennsylvania
Issued: December 2017
Expires: September 2023

Additional Licenses
AR

ANDREW BROCK (14-113-84)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

CSX Transportation
Ohio (United States)
Engineering Manager
June 2013—December 2016

Verified by
Matthew Snell
msnell250@gmail.com

Experience Summary
Full-Time
Engineering: 3 years, 6 months
Experience under licensed engineer:
None



TASKS

Primary manager of engineering for an assigned subdivision of 210 track miles. This subdivision included mainline track, switching yards, and industrial tracks. Daily responsibilities include inspections of construction and maintenance projects, planning of work, design of horizontal curves, design of vertical curves and track alignments. Design of curve superelevation and degree of curvature to meet curve-speed requirements for passenger and freight traffic. Responsible for subgrade compaction design, ditch design, culvert sizing, culvert inspections, and small roadway design. Design of railroad crossings at grade with public streets includes pavement design and selection, sight-distance checks, pavement runoff distance checks, and compliance with the MUTCD (Manual on Uniform Traffic Control Devices). Responsible for construction of large, multi-million dollar projects. Responsible for high-speed curve horizontal alignments and superelevation design for passenger train traffic. Utilized engineering surveying and calculus to determine reduction of curvature degrees to increase speed of curves for passenger traffic. Supervised younger engineers during construction in order to ensure compliance with working drawings. Produced as-built drawings and recorded data for company databases. Utilized soil mechanics to determine subgrade compaction requirements and to determine appropriate subgrade stabilization methods. Determined required concrete mix type for culvert headwall projects. Used fluid mechanics to determine erosion control requirements in ditches and culverts. Used strength of materials knowledge to determine pipe size and type (steel, concrete, rail, etc). Used strength of materials to determine and design necessary rail weight sizes for given freight train loading requirements for both employer and customers who requested assistance. Responsible for the geometric design of access roadways for large trucks. All design, construction, and inspections were performed under codes including IBC (International Building Code), ASCE (American Society of Civil Engineers), AREMA (American Railroad Engineering and Maintenance-of-Way Association) and the FRA Part 213 regulations (Federal Railroad Administration).



REPRESENTATIVE PROJECTS

Major project 1: a railroad interlocking redesign. Responsible for site survey, curve survey, and drainage spot elevation surveying and data aggregation into AutoCAD. Once all the relevant data was in AutoCAD, design began. Used AASHTO, AREMA, ASCE, FRA regulations, and company regulations to design a new interlocking. The goal of the project was to remove a diamond, where a 10 mph branch line crossed a 40 mph main line track, and to re-grade and redesign the horizontal curve from the branch to the mainline in order to increase Amtrak passenger train speed. Another goal was to remove the switch in order to speed up Amtrak's pass through this interlocking.

My initial design including reducing the connection curve from 11 degrees to 5 degrees which increased the calculated passenger speed from 10 mph to 25 mph. My design including an increase in super-elevation to 1.5" and incoming and outgoing spirals which were calculated. Also designed a track panel to replace the diamond and a new connection track to the otherside of the mainline to access the opposite side of the branch line. This connection was designed as a 10 mph connection track with a calculated 1/2" super elevation.

Once designed, I executed the site survey including grade and curve staking. I ordered materials and planned labor. I supervised the construction of the project over 3 weeks in order to limit train downtime. I inspected all work once complete for compliance with the design and with all pertinent FRA regulations.

In this position, I was also responsible for designing erosion control techniques, such as rip-rap, sheet-piling, concrete grade/retaining walls, or slope stabilization. This method chosen depending on the site accessibility, available manpower and available budget for materials.

Major project 2: Discovery, design, construction and inspection of sheet piling in order to control slope erosion along a creek parallel to the railroad right of way. Sheet piling was designed using available soils data and AREMA E-80 Cooper's loading and the Boussinesq interaction diagrams in order to determine the influence of railroad car axles. Determined applicable environmental and erosion control requirements. Designed handrail at op of piling to protect railroad workers from falls using IBC 2012 and

OSHA requirements. Designed a temporary rip-rap bridge and associated culverts in order to facilitate access to the site with minimal impact. Inspected installation to ensure embedment criteria met and slope backfill behind piles met.

Major project 3: Design and construction of multiple railroad crossings at grade. A single tie replacement project could have up to 10 railroad crossings at grade rebuilt and reinstalled. Used the MUTCD and local DOT codes to determine asphalt runoff elevations and distances. Used MUTCD to determine applicable signage and pavement marking requirements. Used MUTCD to design temporary traffic control devices in order to perform construction while ensuring flow of traffic in rural and urban areas. Used local DOT standards and engineering practices to determine pavement compositions based on subgrade conditions.

ANDREW BROCK (14-113-84)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Poggemeyer Design Group
(Kleinfelder)

Ohio (United States)

Structural Engineer

January 2017—December 2023

Verified by

Brad Michael Thomas

bthomas@kleinfelder.com

Experience Summary

Full-Time

Engineering: 6 years, 11 months

Experience under licensed engineer:

6 years, 11 months



TASKS

Responsible for analysis and design of structural systems for new construction and existing building renovations. Calculates loads on structures through gravity and lateral analysis. Determines applicable load combinations and develops structural components to resist them. Primary building design types include steel frame, concrete one/two-way slabs, concrete beam systems, cold-formed steel, and wood-framed structures. Designs include foundations for all systems. Performs calculations by hand or within the RISA ecosystem. Drafts and details plans within Revit. Performs connection design. Analysis includes lateral systems conceptualization, analysis, design, and checking for wind and seismic. Accounts for P-delta in structures. In this position, directs work of engineer-interns and checks work. Responsible for independent technical reviews of outside projects. Checks calculations, analysis and drawings for quality. Also is the manager of structural engineering for the region leading 3 engineers in training and 2 professional engineers. Checks and seals all work for all states as engineer of record.



REPRESENTATIVE PROJECTS

Major Project 1 from August 2019 to April 2022: Engineer of record for structural design of a \$48 million dollar convention center ballroom addition project. Building was a Risk Category III assembly area building. Lead structural engineer for the project. Designed the building gravity and lateral resisting systems using steel, prestressed concrete and steel decks. Designed a novel plate girder floor span for long-span steel floors up to 103 feet and transfer girders with shear forces up to 1500 kips. Designed the lateral resisting system for wind and controlled seismic loading. Designed basement concrete columns, grade walls, and slabs. Designed concrete spandrel beams. Designed slab on grades and elevated slabs for all gravity and diaphragm loading. Designed deep foundations including caissons, belled caissons, rock socketed caissons, micropiles and all associated concrete pile caps. Coordinated all design with the architect, mechanical engineers, and geotechnical engineers. All designs met IBC 2015, ASCE 7-10, AISC 360-16 and other applicable codes.

Major Project 2 from September 2021 to April 2022 : Responsible for full structural design of a new 700,000 square foot pre-engineered metal building automotive paint facility. Performed structural design on all foundation systems: PEMB foundations, grade beams, grade walls, deep press pits, equipment foundations, and retaining walls. Project included a storm shelter. Performed structural design using ASCE 7-16, FEMA, and ICC 500 storm shelter standards. Calculations included reinforced masonry, concrete one-way slabs, and foundations subject to large lateral and uplift forces. Project included blast walls for hazardous materials. Performed chemical analysis to determine blast forces and translated that into design of the reinforced masonry walls, reinforced steel roof, and spandrel connections to resist such forces. Drew all plans necessary. Assembled full calculation packet for submission to the owner's process engineer for review.

Major Project 3 from June 2021 to January 2022: Performed 3D scanning leading to RISA model development for two 250' tall agricultural steel framed towers subjected to new, larger conveyor bridge loading. Built a structural model to analyze the as-built condition of the 40 year old towers. Analyzed the tower using ASCE 7-16 gravity, wind, and ice loads. Designed and detailed new members and existing member reinforcement required to safely support the new loads. Performed connection design checks and new connection design on all gravity and lateral members on the tower. Assembled a calculation packet and drawing set for review by the owner's in-house engineer.

Major Project 4 from September 2019 to November 2020: Performed necessary calculations for a masonry and concrete framed storm shelter with a wood-framed storage area above as part of a Risk Cat. IV police station for a local municipality. Analyzed the existing portion of the building for higher gravity and lateral loads and recommended repairs. Worked with a technician to develop Revit drawings for the spaces. Assembled calculations packet and drawings for peer review of an outside firm.

Major Project 5 from January 2017 - March 2018: Performed structural design for an 800,000 sf axle manufacturing facility with steel joist, joist girder framing and precast concrete walls. Assisted senior engineers with development of the lateral force resisting system. Performed snow load and snow drifting calculations for load diagram development for the joist supplier. Tracked and

checked process loads underhung for compliance with joist requirements. Designed concrete pits, trenches, and retaining walls for inside the facility. Work was performed under auspices of a senior engineer.

Major Project 6 from June 2022 - April 2023: Performed full structural analysis for an 1800 ton structural steel furnace process structure (9 stories) for a steel mill in seismic design category D. Performed all structural steel load generation, seismic load and drift analysis, and all steel connection design using OCBF, OMF, SMF and SCBF systems.

MARK LEE (15-307-71)

All work experience reviewed by two licensed professionals

DISCIPLINE: STRUCTURAL

GENERAL




Applying To
Nevada

Application Type
Comity - PE

Application Date
12/21/2023

Citizenship
Jamaica

SUMMARY








Engineering Experience after EAC degree

Total Engineering Experience
9 years, 3 months


Experience under licensed engineer
9 years, 3 months

Other Experience

Disciplinary Action
None reported



EDUCATION



Meets NCEES Engineering Education Standard


Non-degree
Advanced Level Exams
December 1986–January 1987

Bachelors in Construction Engineering
University of Technology - Jamaica
August 2005–November 2009

Masters in Civil Engineering
University of North Dakota
January 2012–December 2013

NOTE: First discipline specific structural license.

EXAMS



Fundamentals of Engineering (FE)
North Dakota
April 2013

Principles and Practice of Engineering (PE)
Civil
South Carolina
October 2017

NCEES 16HR Structural (SE)
New York
October 2023

LICENSES



Initial License
South Carolina
Issued: June 2018
Expires: June 2024

Additional Licenses
None

MARK LEE (15-307-71)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Entrepreneur
Kingston (Jamaica)
Entrepreneur
December 2009—August 2010

Verified by
Mark Lee (Self)

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



TASKS

Manufacture bottle fruit juices



REPRESENTATIVE PROJECTS

*Owned my own company that manufactured and wholesaled bottled fruit juices to schools and supermarkets.

MARK LEE (15-307-71)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Campion College
Kingston (Jamaica)
Teacher
August 2010—December 2011

Verified by
Mark Lee (Self)

Experience Summary
Full-Time
Other: (0%)
Experience under licensed surveyor:
None



TASKS

* Teach technical drawings (hand and AutoCAD drafting)



REPRESENTATIVE PROJECTS

Taught students to draw by hand and with AutoCAD

WORK EXPERIENCE

Mead & Hunt Inc
Wisconsin (United States)
Entry Level Structural Engineer
October 2013—December 2015

Verified by
Timothy John Close
tim.close@meadhunt.com

Experience Summary
Full-Time
Engineering: 2 years, 2 months
Experience under licensed engineer:
2 years, 2 months

TASKS

- * I designed building and non-building structures
- * I performed finite element modeling, analysis and design of structures
- * I performed hand calculations for designs
- * I reviewed shop drawings and RFIs
- * I created and coordinated details with CAD techs
- * I edited project specifications
- * I performed cost estimating using RSMeans.

REPRESENTATIVE PROJECTS

Friedman Memorial Terminal Design, Hailey Idaho

The airport terminal was modified to make the terminal more spacious and use-friendly. I was the Engineer for the design of the expansion. I generated the loads (gravity and lateral) for the structure; selection of the roof deck, size and layout of bar joists; choosing, layout and designed lateral system for wind and seismic design category D. I designed foundations; I applied all relevant code requirements to the projects; I identified, analyzed and designed for all load paths; I analyzed deck for lateral force transfer; I designed the column base anchorages and pier reinforcement; I designed walls for out-of-plane forces; I analyzed structure in RISA suite (RisaFloor, RiSA3D, RisaFoundation, RisaSection, RisaBase). I performed hand calculations to supplement and extend software analysis. I coordinated with MEP disciplines and Architects. I coordinated design and details with CAD techs.

Central Wisconsin Airport, Mosinee WI

I analyzed and designed large steel structure canopies at the front of the terminal and in revenue controlled areas of car park. I analyzed existing roof members to verify if roof top units can be added and I provided details for reinforcement of existing roof members when inadequate. I reviewed shop drawings and submittals. I coordinated design and details with CAD techs.

Appleton Airport Car Rental Facility, Appleton Wisconsin.

This building started as a mixed system of wood, steel, concrete and masonry elements. Additionally, there was a steel canopy at the north side of the building. I performed schematic design work for a new snow removal facility building design. This includes the selection of gravity and lateral systems, materials to be used, relevant code requirements, coordination with Architectural and MEP disciplines to provide cost effective alternate bid packages to the owner to assist with project funding. I coordinated design and details with CAD techs. Camp Rilea, Oregon. I performed seismic retrofit analysis for existing Army Barracks.

La Crosse Regional Airport, La Crosse Wisconsin.

I designed passenger boarding bridge foundations. I designed an elevated stair landing of concrete on metal deck and anchored into masonry walls. I designed an elevator mat slab. I analyzed existing roof precast planks on steel beams and added roof beam retrofit to support new air handler units. I coordinated design and details with CAD techs.

Residential Building, Akutan Alaska

I designed and detailed a two story timber residential building and created markups of plans, elevations and details for drafting. I coordinated design and details with CAD techs.

Air National Guard Hangar Building 255, Portland Oregon

I modeled in SAP2000 (from existing drawings) an Air National Guard Hangar built in the 1950s to determine if seismic retrofit is required.

Camp Rilea, Warrenton Oregon

I performed seismic evaluation and report for hangar building using ASCE 41-13.

Fort Polk Fire Station

I modeled mat slab for the analysis and design mat slab for a fire station.

Multiple Projects

I performed analysis of trash raker structures. I coordinated design and details with CAD techs.

MARK LEE (15-307-71)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Becker Engineering
New York (United States)
Structural Engineer
April 2016—August 2016

Verified by
Mark Lee (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

- Communicate with clients and contractors through entire project delivery
- Structural steel design of basement storage building with concrete deck roof
- Coordinate design with CAD Techs
- Roof dunnage design
- Foundation design – spread footings, mat slab, support of excavation systems, underpinning
- Design of shoring/re-shoring systems for cast in place concrete slabs
- Prepare Fall Arrest plans
- Performing special inspections and their reports
- QC reviews



REPRESENTATIVE PROJECTS

118 Fulton St, New York NY

Becker Engineering was employed to do contractor support drawings and calculations for a 64 story high rise building. I designed the cast in place shoring, reshoring and fall arrest systems.

Bronx 1 - Cannon Place, East Bronx New York

Becker Engineering was employed to take over the structural design of a basement building under a car parking lot. I reviewed the geotechnical report for structural design data and I calculated the loads imposed from a H20 truck on the basement roof (parking lot floor). I designed retaining walls which were acting as the basement walls, and designed the foundations of the structure, cast in place stairs and their foundations, slab on grade design, concrete deck roof for gravity and lateral diaphragm action and tie into basement walls.

Confidential client and location

Becker Engineering was employed to perform support of excavation services for a contractor. I designed the soldier piles and lagging to support the excavation. I also coordinated with the drafters to draft my markups into the project drawings.

Confidential client, Decatur Avenue Brooklyn.

Becker Engineering was employed to perform structural engineering services for the architect provide architectural remodeling services to a 3 story row house style home. I inspected the interior walls and identified the bearing walls that the contractor could remove. I also designed roof dunnage for new a/c unit. Additionally, I designed a steel moment frame and foundations at a new opening that was created by removing the entire first floor building wall, hence, removing the shear wall lateral resistance. I designed the moment frame to act as a lintel for the wall above and for the new lateral system when the wall is removed. I designed a temporary means and method for the contractor to remove the lower wall safely. I performed special inspections for the steel moment frame foundations installation.

Confidential client

I performed calculations for foundation design to include spread footings and mat slab.

Confidential client

Becker Engineering was employed to provide support of excavation services to a contractor. I designed the underpinning for a low rise existing building to support its excavation

MARK LEE (15-307-71)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

ZI Engineering
New York (United States)
Structural Engineer
November 2016—January 2017

Verified by
Zahid Ismail
zismail@ziengineering.com

Experience Summary
Full-Time
Engineering: 2 months
Experience under licensed engineer:
2 months



TASKS

Preliminary analysis and design of three story steel building (beams and columns) with Risa3D finite element software.

Analysis of foundation impact of three story building on subway tunnel below grade.

I performed facade inspections and developed AutoCAD drawings and technical reports.



REPRESENTATIVE PROJECTS

Confidential client.

I developed a 3D finite element model in Risa3D and analyzed and designed steel beam and column members to further develop the design of a three story steel building.

Confidential client

I reviewed geotechnical report information and used the information provided to analyze the impact of a three story building loads imposed on an existing subway tunnel. I calculated the loads of the building and showed that the loads imposed on the subway tunnel below grade was not exceeding the limits set by the Metropolitan Transportation Authority (MTA).

Bellevue hospital Center, 462 1st Ave, New York NY

I was a part of the team performing facade inspections of the buildings and creating technical reports and AutoCAD drawings to issue to the Department of Buildings.

WORK EXPERIENCE

Planet Forward (Contracted to Burns & McDonnell)
New York (United States)
Staff Structural Engineer
January 2017—January 2018

Verified by
Nanci Buscemi
nbuscemi@burnsmcd.com

Experience Summary
Full-Time
Engineering: 1 year
Experience under licensed engineer: 1 year



TASKS

I was contracted to Burns & McDonnell as a Staff Structural Engineer. My tasks and duties included the analysis and design of a combined steel and concrete structure.

I analyzed and designed steel columns, steel vertical braced frames and horizontal bracing, composite beams, steel connections and base plates, design of embed plates into concrete, concrete slab and beam system, concrete intermediate moment frames, ordinary reinforced concrete shear walls, concrete mat slab and pile caps using closed end steel pipes filled with concrete. Steel deck diaphragms and concrete diaphragms.

I performed vibration check of stairs and composite floor system.

I modeled using finite element software ETABS, SAFE and Risa Connections. Other software include, Hilti Profis Anchor, Hilti Diaphragm, MecaWind, Microsoft Excel, Revit, AutoCAD, AutoCAD Civil 3D.

I performed hand calculations to include, but not limited to the calculations of flood loads, wind load for main wind force resisting system, seismic loads (ELF Method, diaphragm and collector forces), thermal loads, snow loads and drifts.

I accounted for and applied all loads imposed loads on the structure to include loads from escalators, elevators, curtain wall systems, skybridge walkway and oculus roofs.

I reviewed shop drawings and RFIs, and performed field inspections in the construction design stages of the project.



REPRESENTATIVE PROJECTS

Curbside Check-In Building, LaGuardia Airport New Terminal C, Queens New York USA.

The Curbside Check-in Building is a three story building made of steel and concrete materials and is part of the \$4 Billion Delta Airlines Terminal C at LaGaurdia Airport. The building is used for checking in passengers and their luggages and providing a passage way to the main HeadHouse that links to all four concourses.

I analyzed, designed and detailed fully both the superstructure and the foundations of the mixed steel and concrete structure for all gravity and lateral loads. I designed and detailed the steel connections. I coordinated all aspects of the design with external consultants and internal MEP, Fire Protection engineers and Airside Civil Engineers.

I designed a steel truss skyway bridge that connects the Curbside building to the main Headhouse building.

I coordinated the design and phases of construction to allow for temporary roadways impact on the building foundations during the construction phase.

I coordinated the design using the New York City Building Code and AASHTO with the Bridge engineers because some of the Curbside building foundations were shared with bridge columns and so the shared foundations were designed to meet both codes.

I designed the buildings to meet the requirements of the New York City Building codes and all the applicable reference codes including the ASCE, AISC and ACI codes. Also, I designed the building to meet requirements of the Tenant Construction Review Manual of the Port Authority of New York and New Jersey.

I designed the foundation system of cast in place concrete mat slab, concrete pile caps, and piles integral with grade beams acting as lateral ties to the pile caps and also support for the ground level slab supported on grade beams. Soil conditions are classified as soil class F. Typical settlement estimated at approximately 20 inches and the foundations were designed for this. In addition to the typical loads imposed from the superstructure of gravity, wind and seismic loads, I analyzed and designed the foundations for flood loads and liquefaction.

I coordinated with consultants for the geotechnical services, curtain wall and vertical transportation (escalator and elevator) design loads, wind tunnel design loads for components and cladding. I coordinated with MEP and fire protection designs and coordinated loads imposed on to the structure. I coordinated with the bridge design team and I designed foundations shared by both the Curbside building and the adjacent bridges columns.

I designed steel canopies that are used to check-in luggage and link to the main baggage handling systems. Additionally, I designed steel vestibules at the front entrance doors.

WORK EXPERIENCE

Burns & McDonnell
New York (United States)
Senior Structural Engineer
January 2018—December 2023

Verified by
Nanci Buscemi
nbuscemi@burnsmcd.com

Experience Summary
Full-Time
Engineering: 5 years, 11 months
Experience under licensed engineer:
5 years, 11 months



TASKS

I was hired by Burns & McDonnell as a Staff Structural Engineer. I was promoted to Senior Structural Engineer in January 2021. My tasks and duties included the analysis and design of steel structures.

I analyzed and designed steel columns, steel vertical braced frames and horizontal bracing, composite beams, base plates, steel deck diaphragms and concrete diaphragms.

I performed vibration analysis of composite floor systems.

I modeled, analyzed and designed using finite element software ETABS, SAFE and Risa Floor and Risa3D. Other software include, Hilti Profis Anchor, Hilti Diaphragm, MecaWind, Microsoft Excel, Revit, AutoCAD, AutoCAD Civil 3D. I peer reviewed foundation design done in RisaFoundation

I performed hand calculations to include, but not limited to the calculations of flood loads, wind load for main wind force resisting system, seismic loads (ELF Method, diaphragm and collector forces), thermal loads, and snow loads.

I accounted for and applied all loads imposed loads on the structure to include loads from escalators, elevators, curtain wall systems, baggage handling systems, MEP and Fire Protection equipment.

I reviewed shop drawings and RFIs, and performed field inspections in the construction design stages of the project.

I reviewed steel, concrete, foundations, curtain wall and baggage handling system shop drawings and RFIs.

I created special and unique details and coordinated with drafters.

I designed dunnages for generator and air handler units.

I peer reviewed finite element models for fixed bridges (steel truss structural systems) and their foundations.

I performed a phasing study of different phases of steel erection.

I reviewed and modified steel specifications.

I performed full time onsite construction administration services managing trades.



REPRESENTATIVE PROJECTS

January 2019 - August 2022. Concourse E, LaGuardia Airport New Terminal C, Queens New York USA.

I am the Engineer responsible for the design and detailing of a multistory concourse building with materials such as steel, concrete and composite deck. This includes both lateral and gravity designs. Gravity system consists of steel beams and columns, composite and metal decks. Lateral system consists of semi rigid and rigid diaphragms, steel braced frames and moment frames.

I prepared details for complex solutions to problems that arise from space, aesthetics and coordination constraints of other disciplines. I coordinated building movements for sizing of expansion joints for and curtain wall attachments.

I used the 2014 New York City Building Code, ASCE 7-05 for wind design, ASCE 7-10 for seismic design, AISC 360-10 for steel design, and ACI 318-11 for concrete design.

I created details using Revu Bluebeam and coordinated with CAD drafters. I reviewed RFIs and Submittals.

January 2018 - August 2022. Curbside Check-In Building, LaGuardia Airport New Terminal C, Queens New York USA. I reviewed RFIs and Shop drawings for skyway truss to connect the Curbside Check-In building to the main Head House. I reviewed RFIs and shop drawings for grade beams, pile caps and mat slab. I reviewed pile deviations and provided sketches for field fixes when the pile deviations are out of placement tolerance.


January 2019 - August 2019. HeadHouse, LaGuardia Airport New Terminal C, Queens New York USA. I performed calculations for flood barrier plank system anchorage to grade beam foundations. I reviewed flood design loads and calculations from Flood Barrier consultant. I reviewed shop drawings for foundation reinforcement and concrete.

January 2022 - March 2023. Renovation of the Spirit Airlines LaGuardia Terminal A MAT Facility Enhancements Project. I develop conceptual designs to support MEP team. I designed and detailed new roof mounted dunnage to support mechanical roof top units. I analyzed and strengthened existing floor slabs to accommodate new raised platform for restroom areas. I developed concept for proposed new flood resistant building to house new airport security scanning equipment. I performed field observations and documentations.

Aug 2022 - August 2023. JFK Airport Concourse A - I provided technical structural and construction engineering solutions to field issues. I managed all trades required for Structural and Fit Out areas of new Concourse.

September 2023-December 2015. Oak Ridge National Laboratory Second Target Station - I am providing analysis and design of multi-story building approximately 100ft high. Building is being designed for seismic SDC, wind, tornado, gravity loads, temperature changes and other loads. The building consists of steel, composite floors, cast-in-place concrete floors, concrete shear walls, moment frames and multi tier braced frames.

GENERAL




Applying To
Nevada

Application Type
Comity - PE

Application Date
01/03/2024

Citizenship
China

SUMMARY










Engineering Experience after EAC degree
5 years, 2 months

Total Engineering Experience
5 years, 2 months

Experience under licensed engineer
5 years, 2 months

Disciplinary Action
None reported




EDUCATION



Bachelors in Civil Engineering (EAC)
Iowa State University
January 2011–May 2014

Masters in Civil Engineering and Engineering Mechanics
Columbia University
September 2014–May 2015



NOTE: First discipline specific structural license.

EXAMS




Fundamentals of Engineering (FE)
New York
January 2015

Principles and Practice of Engineering (PE)
Civil
California
October 2017

NCEES 16HR Structural (SE)
Oregon
October 2023

LICENSES



Initial License
California
Issued: October 2018
Expires: March 2023

Additional Licenses
WA

WORK EXPERIENCE

JWC Architect/Engineer, D.P.C.
New York (United States)
Intern Engineer
May 2015—August 2015

Verified by
Jianwei Liu (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

I prepared construction drawings using AutoCAD.
I reviewed and commented on rebar shop drawings and steel shop drawings submitted by contractors.
I performed loads and load combinations calculations using ASCE 7 and per the requirements of the Building Code.
I designed steel reframing, steel strengthening, steel connections, and other steel elements using AISC standards and per the requirements of the Building Code.
I performed structural modeling and finite element analysis using programs such as SAP2000.
I visited projects sites to take measurements.



REPRESENTATIVE PROJECTS

Building Renovation and Signage Structure Strengthening
Project Address: 78-21 Queens Blvd, Queens
Period: May 2015-Aug 2015
Primary References: NYCBC, ASCE 7, AISC 360

I performed structural design for a two-story commercial building renovation. I designed new steel framing & reframing and steel strengthening in association with the change of occupancy on the 2nd floor.

I performed site visits and measured all steel members of the rooftop signage structure. I modeled the signage structure in SAP2000 and designed two strengthening schemes. I produced structural construction drawings using AutoCAD.

WORK EXPERIENCE

A&T Engineering P.C.
New York (United States)
Structural Engineer
September 2015—August 2016

Verified by
Jianwei Liu (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None

TASKS

I prepared contract drawings using AutoCAD.
I reviewed and commented on rebar shop drawings and steel shop drawings submitted by contractors.
I performed loads and load combinations calculations using ASCE 7 and per the requirements of the Building Code.
I designed concrete building structures, earth-retaining walls, footings & grade beams using ACI standards and per the requirements of the Building Code.
I designed steel building structures using AISC standards and per the requirements of the Building Code.
I designed masonry building structures using TMS402/602 and per the requirements of the Building Code.
I designed cold-formed steel buildings using AISI-S100 and per the requirements of the Building Code.
I performed structural modeling and finite element analysis using programs such as ETABS and SAFE.
I performed site investigations, evaluations, and measurements.

REPRESENTATIVE PROJECTS

Design of New Building Structure
Project Address: 100 Suydam St – Brooklyn, NY
Period: 2015-2016
Primary References: NYCBC, ASCE 7, TMS402/602, and AISI-S100
I designed the structure of a new five-story residential building. The building comprises a cold-formed steel gravity system with reinforced masonry core shear walls. I also designed the eccentric concrete footing with grade beams and prepared the support of excavation plans. Additionally, I completed the drafting of the structural drawings.

Window and Metal Panel Calculation Package
Project Address: 149 Kent Ave – Brooklyn, NY
Period: 2015-2016
Primary References: NYCBC, ASCE 7, AISC 360, ASTM Standards
I prepared a calculation report for the proposed window and metal panel installation on a new six-story mixed-use building. I calculated the strength of the glasses, alloy metal mullions, and alloy metal panels using related ASTM standards. I also checked the window deflection per the AOR's specifications and the Building code requirements. I reviewed the window contractor's shop drawings and provided comments.

Design of New Building Structure
Project Address: 4023 10th Ave – Brooklyn, NY
Period: 2015-2016
Primary References: NYCBC, ASCE 7, AISC 360
I designed the structure of a new six-story residential building. The building comprises a steel floor framing gravity system with steel moment frames. I modeled and analyzed the steel building in ETABS. I also designed the eccentric concrete footing with grade beams and the support of excavation plans. As the building is adjacent to the MTA structure, I completed the construction sequence and monitoring plans for MTA's review. I also prepared the structural construction drawings.

WORK EXPERIENCE

D&B Engineers and Architect, P.C.
New York (United States)
Engineer I
September 2016—March 2019

Verified by
Christopher Desmond
CDesmond@db-eng.com

Experience Summary
Full-Time
Engineering: 2 years, 6 months
Post EAC degree: 2 years, 6 months
Experience under licensed engineer: 2 years, 6 months

TASKS

I prepared contract drawings using AutoCAD and BIM models using Revit. I reviewed and commented on drawings from drafters. I also compiled specifications as required.

I reviewed and commented on rebar shop drawings, steel shop drawings, submittals, and RFIs submitted by contractors.

I performed loads and load combinations calculations using ASCE 7 and per the requirements of the Building Code.

I designed concrete building structures, earth-retaining walls, footings & grade beams, and other concrete elements using ACI standards and per the requirements of the Building Code.

I designed steel building structures, equipment dunnages, access platforms/catwalks, stairs, steel connections, and other steel elements using AISC standards and per the requirements of the Building Code.

I designed wood floor framing, reframing, and reinforcing using AWC standards and per the requirements of the Building Code.

I performed structural modeling and finite element analysis using programs such as ETABS and STAAD.pro.

I performed special inspections, including high-strength bolting, cast-in-place concrete, masonry construction, etc., per the requirements of the Building Code. I produced inspection reports for the site visits.

I performed site investigations and evaluations for potential schemes of structural repairs or building renovations. I produced reports for the site visits.

I performed due diligence and general inspections and coordinated with the contractors to fix construction discrepancies.

REPRESENTATIVE PROJECTS

Design of New Building Structure
Project Address: 40-17 28th Ave – Queens, NY
Period: 2017-2018

I designed the structure of a new concrete commercial building. The building has a three-story superstructure with an area of 14,500 SF and a four-level basement with an area of 25,000 SF. I performed modeling and hand calculations for the concrete floor, composite beams and columns, concrete shear walls, and basement walls. Additionally, I completed the drafting of the structural drawings and the support of excavation plans. I also coordinated with the architect to ensure the consistency of the design development drawings.

Design of Existing Townhouse Renovations
Project Address: Various locations in Brooklyn and Uptown Manhattan
Period: 2016-2019

I performed calculations and completed structural drawings for vertical/horizontal extension, enlargement, and existing floor strengthening/reframing of multiple townhouse projects. Usually, the existing townhouses consist of 4 to 5 levels of framed wood floors with brick masonry party walls. The total construction area of a typical project is 10,000 SF. Since most of the townhouses are designated landmark buildings, I also performed construction sequence designs as required. I helped contractors of these projects understand the design intent and interpretation of the drawings when they had questions. I completed general inspections during construction to ensure drawing compliance and helped with the necessary field fixes.

Structural Evaluation
Project Address: Various locations in New York City and Upstate New York
Period: 2017-2019

I assessed and examined the structural assets of multiple NYCDEP wastewater treatment plants across the New York City metro area and upstate New York. I performed structural evaluations, including visual structural stability and integrity check and existing damage assessments of the plants' building facilities, equipment supporting structures, concrete tanks, and other water-retaining or gas-containing structures. The site area for each plant ranges from 30 to 60 acres, and the number of structural assets for each plant varies from 80 to 150. I also provided measurements and documented the extension of all visually available conditions of

concrete crack/spalling and steel corrosion. I communicated with the facility managers regarding potential damage repair schemes.

Structural Design of Resiliency-Related Upgrades

Project Address: Various locations in New York City

Period: 2017-2018

I provided structural calculations for floor steel reframing and strengthening and MEP equipment dunnage design for five NYPD precincts as part of the FEMA Sandy Storm Recovery Improvement. I also provided the design for concrete water retaining walls in the precincts' basement. Additionally, I prepared and completed both the architectural and structural construction documents. I updated the drawings per NYCDDC's review comments and passed the plan examination.

Loads Imposed Calculations and Reviews

Project Address: Various locations in Suffolk County, NY

Period: 2017-2019

I provided structural calculations for telecommunication antenna assemblies proposed by the couriers and reviewed the loads imposed on multiple Suffolk County Water Authority water tanks. A typical project involves load calculations and checking steel members' capacity and connections along the load path of the antenna assembly. I also prepared reinforcing details for the water tank's catwalk structure or tank body when required due to the loads-imposed review.

WORK EXPERIENCE

Gilsanz Murray Steficek
New York (United States)
Senior Structural Engineer
March 2019—November 2021

Verified by
Ichi Cathy Huang
cathy.huang@gmsllp.com

Experience Summary
Full-Time
Engineering: 2 years, 8 months
Post EAC degree: 2 years, 8 months
Experience under licensed engineer:
2 years, 8 months



TASKS

I prepared construction drawings using AutoCAD and BIM models using Revit. I reviewed and commented on drawings from drafters. I coordinated with modelers for data transferring across programs, e.g., from ETABS to REVIT. I also compiled specifications as required.

I reviewed and commented on rebar shop drawings, steel shop drawings, submittals, RFIs, and change order requests submitted by contractors.

I performed loads and load combinations calculations using ASCE 7 and per the requirements of the Building Code.

I designed concrete building structures, earth-retaining walls, flood walls, footings & tie beams, grade beams, and other concrete elements using ACI standards and per the requirements of the Building Code.

I designed steel building structures, steel reframing, steel strengthening, steel connections, and other steel elements using AISC standards and per the requirements of the Building Code.

I designed wood floor diaphragms & sub-diaphragms, chords & collectors, continuous ties, and wood element strengthening, using AWC standards and per the requirements of the Building Code and ASCE 41.

I performed structural modeling and finite element analysis using programs such as ETABS, SAP2000, and SAFE.

I performed special inspections, including high-strength bolting, cast-in-place concrete, masonry construction, etc., per the requirements of the Building Code. I produced inspection reports for the site visits.

I performed due diligence and general inspections and coordinated with the contractors to fix construction discrepancies.

I delegated construction administration and structural design tasks to junior engineers and reviewed their work.

In addition to the tasks and duties listed above, as a senior structural engineer:

I communicated directly with the owner and the architects for design coordination and reported to the project manager.

I delegated design and inspection work to junior engineers and set priorities based on the project's schedule.

I reviewed junior engineers' work and mentored them in technical development.



REPRESENTATIVE PROJECTS

Under the Title of Structural Engineer:

New Building Structure Design

Project Address: Private development on E79th St – Manhattan

Period: 2019-2021

Primary References: NYCBC, ASCE 7, and ACI 318

I performed the structural design of a 20-story concrete residential building on the Upper East Side. The structure comprises luxury condominium units and amenity spaces totaling approximately 135,000 sf.

The building's main lateral load-resisting system consists of staircase and elevator core shear walls. The building's gravity system consists of flat plate floor slabs, gravity columns, transfer beams, and transfer slabs. I designed the building and its various components utilizing programs such as ETABS, SAFE, SAP2000, SP Column, ENERCALC, etc. I verified the program-generated force and design results using hand calculations, excel spreadsheets, or MATHCAD. I modeled the structure in Revit, coordinated with other design disciplines, and produced the structural construction drawings.

I reviewed and commented on shop drawings, RFIs, and change order requests. I also delegated some construction administration responsibilities to junior engineers and reviewed their work. I communicated with all project stakeholders throughout the project's design and construction phases. I visited the site to perform general inspections and resolve construction

discrepancies as required.

NYC Housing Authority Capital Project

Project Address: NYCHA Baruch, Carey Garden, and Levenberg Houses

Period: 2019-2021

Primary References: NYCBC, ASCE 7, ACI 318, AISC 360, CRSI Design Guides

I performed construction administration support and redesign work for multiple NYCHA properties. The project aims to repair the damage from Hurricane Sandy and provides resiliency upgrades to mitigate future natural disasters.

Due to existing conditions newly revealed during the construction and substitute requests imposed by NYCHA, I coordinated with the contractor and the architect and performed multiple design changes, including :

- Redesigning pile caps and tie beams for the as-built pile group due to conflicts with the existing building foundation;
- Redesigning column footings due to conflicts with the existing utility lines;
- Redesigning concrete flood wall and wall footings to accommodate the existing DEP service lines;
- Redesigning precast concrete planks to resist flood load for the existing buildings to avoid accessing the tenant space.

I also delegated some redesign work to junior engineers and reviewed their work.

I investigated the existing conditions with the CM team and the contractor on the construction sites. I performed general inspections and generated inspection reports. I coordinated with the contractor and special inspection agency to identify and fix construction discrepancies.

Under the Title of Senior Structural Engineer:

Seismic Retrofit

Project Address: International Bank (Confidential Client) – Burlingame, CA

Period: 2020-2021

Primary References: California Building Code & Local Building Department Ordinances, ASCE 41, ASCE 7, ACI 318, AWC-SDPWS, FEMA NEHRP Guides

I performed the seismic retrofit design of an existing building based on ASCE 41. The existing building is one story with an open space of approximately 6,000 sf. During a renovation in the 70s to update the storefront, the building's concrete shear walls were modified to form non-ductile moment frames.

Based on site findings, I produced the Tier 2 report per ASCE 41 requirements. Following ASCE 41, I calculated the building's base shear. I checked the building components' capacity along the seismic load path, including the existing sheathing, diaphragm chords & collectors, walls, frames, and foundations. I also studied the load requirements for the existing out-of-plane wall anchorages, continuous ties & straps. I identified the existing elements that require retrofitting and proposed strengthening methods. I produced the calculation package and structural construction drawings. I mentored a junior engineer for seismic design by using the ASCE 41 methodology.

Commercial Tenant Fit-out

Project Address: 1 Court Square– LIC, Queens

Period: 2020-2021

Primary References: NYCBC, ASCE 7, ACI 318, AISC 360

I performed structural design for a commercial tenant fit-out. I designed new concrete foundation work, steel framing & reframing, and steel strengthening in association with incorporating new passenger elevators, freight elevators, and escalators in the retail space of the building.


I coordinated with the architect, completed the structural model in Revit, and produced the construction drawings. I reviewed and commented on shop drawings and RFIs. I also delegated some of the construction administration responsibilities to junior engineers and reviewed their work.

ERIC MONZON (15-042-51)

All work experience reviewed by two licensed professionals

DISCIPLINE: STRUCTURAL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
02/14/2019

Citizenship
Philippines

SUMMARY








Engineering Experience after EAC degree

Total Engineering Experience
9 years, 11 months


Experience under licensed engineer
9 years, 11 months

Other Experience
4 years, 2 months

Disciplinary Action
None reported



EDUCATION




Meets NCEES Engineering Education Standard

Bachelors in Civil Engineering
Bicol University
June 1997–March 2002


Masters in Civil Engineering
University of Nevada, Reno
August 2004–December 2006

Doctorate in Civil Engineering
University of Nevada, Reno
January 2007–May 2013



NOTE: First discipline specific structural license.

EXAMS




Principles and Practice of Engineering (PE)
Civil
Nevada
April 2014

Fundamentals of Engineering (FE)
Nevada
April 2005

NCEES 16HR Structural (SE)
Nevada
October 2023

LICENSES



Initial License
Nevada
Issued: March 2019
Expires: December 2023

Additional Licenses
CA

ERIC MONZON (15-042-51)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Sunwest Construction and
Development Corporation
Albay (Philippines)
Civil Engineer
January 2003—July 2004

Verified by
Eric Monzon (Self)

Experience Summary
Full-Time
Engineering: (0%)
Experience under licensed engineer:
None



TASKS

Perform analysis and design of buildings and other structures; manage the construction of building and land development projects.



REPRESENTATIVE PROJECTS

Hotel Venezia (Legazpi City, Philippines) - Civil Engineer responsible for the structural design of the two-story reinforced concrete building; responsible for the construction of the building.

Misibay Bay Resort (Albay, Philippines) - Civil Engineer responsible for the structural design of buildings.

ERIC MONZON (15-042-51)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

University of Nevada, Reno
Nevada (United States)
Graduate Research Assistant
August 2004—December 2006

Verified by
Ahmad M. Itani
itani@unr.edu

Experience Summary
Part-Time
Other: 1 year, 2 months (50%)
Experience under licensed surveyor:
None



TASKS

Perform finite element modeling and seismic analysis of regular and seismically isolated steel plate girder highway bridges. Manage the construction and seismic testing of seismically isolated steel plate girder bridge. Prepare technical reports on the findings of analytical and experimental studies.



REPRESENTATIVE PROJECTS

Seismically Isolated Highway Bridges - research assistant responsible for the investigation of the performance of seismically isolated highway bridges with different types of isolators, investigation of the effect of multiple support excitation in highway bridges. Responsible for the design of components of steel plate girder bridge and seismic isolators. Responsible for preparing technical reports.

ERIC MONZON (15-042-51)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

University of Nevada, Reno
Nevada (United States)
Graduate Research Assistant
January 2007 – December 2012

Verified by
Ahmad M. Itani
itani@unr.edu

Experience Summary
Part-Time
Other: 3 years (50%)
Experience under licensed surveyor:
None



TASKS

Perform finite element modeling of bridges; perform seismic analysis and design of bridges; lead and manage the construction of three-span curved bridge model for seismic testing.



REPRESENTATIVE PROJECTS

1. Curved Highway Bridges - Lead Research Assistant on the investigation of seismic performance and behavior of curved highway bridges; responsible for the design of the bridge components including deck, girders, seismic isolators, bent cap, and buckling restrained braces; responsible for the construction of 142-ft, three-span, curved steel plate girder bridge used for seismic testing; responsible for writing technical reports.
2. Steel Bridge with Ductile End Cross-Frames - Research Assistant on the investigation of seismic performance and behavior of steel plate girder bridges with ductile end cross-frames; responsible for finite element modeling, analysis, and design of bridge components; responsible for writing technical reports.
3. Bridges with Integral Abutments - Research Assistant on the investigation of seismic performance and behavior of highway bridges with integral abutments; responsible for finite element modeling, analysis, and design of bridge components; responsible for writing technical reports.
4. Seismically Isolated Highway Bridges - Research Assistant responsible on the preparation of design examples of seismically isolated highway bridges which became appendix to AASHTO Guide Specifications for Seismic Isolation Design.

ERIC MONZON (15-042-51)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

University of Nevada, Reno
Nevada (United States)
PostDoctoral Scholar
January 2013—July 2014

Verified by
Ahmad M Itani
itani@unr.edu

Experience Summary
Full-Time
Engineering: 1 year, 6 months
Experience under licensed engineer:
1 year, 6 months



TASKS

Perform finite element modeling, seismic analysis, and design of curved highway bridges; write technical reports on the performance and behavior of curved highway bridges.



REPRESENTATIVE PROJECTS

Guidelines for the Seismic Analysis and Design Curved Highway Bridges - PostDoctoral Scholar on the development of guidelines for the modeling, analysis, and seismic design of curved highway bridges; responsible for finite element modeling, analysis, and design of components of curved bridges; responsible for identification of the parameters that affect the design of curved bridges including curvature, support conditions, substructure stiffness, and use of seismic force mitigation devices such as buckling restrained braces and seismic isolators; responsible for preparation of technical reports;

WORK EXPERIENCE

West Virginia University Institute of
Technology
West Virginia (United States)
Assistant Professor
August 2014—July 2016

Verified by
Steven Del Leftwich
Steve.Leftwich@mail.wvu.edu

Experience Summary
Full-Time
Engineering: 1 year, 11 months
Experience under licensed engineer:
1 year, 11 months



TASKS

Assistant Professor in ABET accredit Civil Engineering program.

Teaching = 75%

Research = 20%

Service = 5%

Courses Taught:

Statics (Sophomore)

Structural Analysis (Junior/Senior)

Reinforced Concrete Design (Junior/Senior)

Steel Design (Senior)

Bridge Engineering (Senior)

Research:

Perform research on the performance of highway bridges with seismic isolation, bridges with innovative seismic force mitigation systems such as ductile end cross-frames, and bridges with integral abutments.

Service:

Serve on department, college, and university committees including preparation of documents for ABET accreditation and as representative in the university faculty assembly.



REPRESENTATIVE PROJECTS

Courses Taught:

MAE 241 Statics - Engineering applications of force equilibrium. Vector operations, couples and moments, resultants, centers of gravity and pressure, static friction, free-body diagrams, trusses and frames. Student learned to perform analysis of rigid bodies including frame structures, machines, and trusses, calculate reactions, calculate internal forces, and develop shear and moment diagrams.

CE 361 Structural Analysis 1 - Stability, determinacy, and equilibrium of structures; shear and bending moment diagrams of determinate and indeterminate beams and frames; analysis of trusses; displacement of planar structures by geometric and energy methods. Students learned to analyze determinate and indeterminate beams and frames, analyze trusses, develop shear and moment diagrams, and calculate deflection of frames and beams.

CE 462 Reinforced Concrete Design - Behavior and design of reinforced concrete members. Material properties, design methods and safety consideration, flexure, shear, bond and anchorage, combined flexure and axial load, footings, introduction to torsion slender columns, and pre-stressed concrete. Students learned to design reinforced concrete beams, columns, slabs, and footings. Students learned to calculate the flexural, shear, and axial strength of reinforced concrete structures. Students learned to calculate loads such as dead, live, wind, and earthquake loads. Students learned to use structural analysis program such as SAP2000. A semester project includes design of multi-story reinforced concrete building.

CE 463 Steel Design - Material properties, design of steel bridge and building systems with emphasis on connections, beams, columns, plastic design, and cost estimates. Students learned to design bolted connections, welded connections, tension members, beams, columns, and beam-columns. Students learned to use the AISC Steel Manual.

CE 493b Bridge Design - Fundamental analysis and design of modern highway bridges. This course concentrates on short to medium span reinforced concrete and structural steel highway bridges. Students learned to calculate the loads acting on a bridge

including live load. Students learned to analyze bridges using structural analysis program SAP2000. Students learned to design cast-in-place box-girder bridges and steel plate girder bridges including design of columns and pier caps. Students also learned how to specify the details of these bridges.

Research:

Research on the performance of seismically isolated curved highway bridges. As part of this research, the article Seismic Performance and Response of Seismically Isolated Curved Steel I-Girder Bridge is published in Journal of Structural Engineering, Vol. 142, Issue 12, December 2016.

Advise students performing research under the West Virginia NASA Space Grant Consortium Undergraduate Research Fellowship Program. The topics of these research are: analysis of highway bridges with integral abutments and analysis of highway bridges with seat abutments.

WORK EXPERIENCE

California State University, Sacramento
California (United States)
Lecturer
August 2016—September 2019

Verified by
Benjamin V. Fell
fellb@csus.edu

Experience Summary
Part-Time
Engineering: 1 year, 7 months (50%)
Experience under licensed engineer:
1 year, 7 months



TASKS

Lecturer in ABET accredited Civil Engineering program.

Teaching = 100%

Courses Taught:

ENGR 30 Statics (Sophomore)

ENGR 112 Mechanics of Materials (Junior/Senior)

CE 235 Advanced Steel Design (Graduate)



REPRESENTATIVE PROJECTS

Courses Taught:

ENGR 30 Statics - Fundamental principles of engineering mechanics as applied to rigid bodies that are either at rest or moving with constant velocity. Theory and application of vectors, equilibrium, moment of a force, equivalent force systems, truss analysis, friction, internal forces, centroids, and moment of inertia are discussed. Students learned to calculate support reactions and internal forces in structures such frames and trusses. Students learned to develop shear and moment diagram of beams and frames.

ENGR 112 Mechanics of Materials - Description: Stresses, strains and deformations in elastic behavior of axial force, torsion, and bending members, and design applications. Statically indeterminate problems. Strain energy. Column stability. The focus of the class is the application of the theories in engineering mechanics to real-life structures. Students learned to calculate normal, shear, bearing, torsional, beam shear, and flexural stresses. Students learned to calculate internal forces in beams and frames including shear and moment diagrams for beams and frames. Students learned to calculate deformation of axially loaded members, shear deformation, torsional deformation, and beam deflection.

CE 235 Advanced Steel Design - Advanced design methodology of steel structures using Load and Resistance Factor Design (LRFD). System level behavior, especially from a seismic loading perspective, is integrated into the design of steel components and connections. Other topics include plate girder design, plastic design of indeterminate systems, design of moment frame systems, and design of braced-frame systems. The focus of the class is seismic design of steel buildings. Students learned to design bolted and welded connections and base plates. Students learned to calculate seismic forces in buildings using ASCE 7. Students learned to design seismic force resisting systems such as moment-frames, concentric braced frame, and eccentric braced frame. Students also learned the selection of structural systems. The semester project is design of a multi-story steel building in a high seismic zone.

Other - Advise students participating in design competitions such as the Precast Concrete Institute (PCI) Big Beam Competition and Earthquake Engineering Research Institute (EERI) Undergraduate Seismic Design Competition.

WORK EXPERIENCE

MGE Engineering, Inc.
California (United States)
Senior Engineer
April 2018—December 2023

Verified by
Hsiaoichi Fred Huang
fhuang@mgeeng.com

Experience Summary
Full-Time
Engineering: 5 years, 8 months
Experience under licensed engineer:
5 years, 8 months



TASKS

Senior engineer, in responsible charge of the analysis and design of highway bridges, high-speed rail bridges, automated people mover guideways, and earth retaining structures. Responsibilities include independent design check and plan review of highway bridges, bridge load rating of highway bridges, and supervising the preparation of plans and details.



REPRESENTATIVE PROJECTS

Jeffrey Avenue Bridge,
California Aqueduct, Fresno County, CA
Senior Engineer, In responsible charge
September 2022 – December 2023

I designed the superstructure which is composed of precast, prestressed wide flange girders that are made continuous by post-tensioning (spliced girders). I designed the substructure which is composed of three-column piers with steel casing on CIDH piles. I analyzed the bridge for gravity, vehicle, and seismic loading by developing a finite element model of the superstructure and including the soil-structure interaction. I supervised the development of plans and details.

Work is supervised by a project manager who is a registered structural engineer in the state of California.

Road 20 Bridge, California High-Speed Rail
Madera, CA
Senior Engineer
January 2023 – December 2023

I designed the superstructure which is composed of precast prestressed wide flange girders. I designed the substructures which are single column piers on cast-in-drilled hole piles. I analyzed the bridge under gravity, vehicle, and seismic loading. I analyzed the bridge for seismic loading by developing a finite element model of the superstructure and modeling the soil-structure interactions. I supervised the development of plans and details.

Work is supervised by a project manager who is a registered structural engineer in the state of California.

American River Bridge
Sacramento, CA
Senior Engineer
July 2021 – December 2022

I designed the pier wall substructure of the eight-span steel plate girder bridge. I analyzed the bridge by developing finite element model of the superstructure and substructure including the soil-structure interaction. I analyzed the bridge for gravity, vehicle, wind, stream pressure, and seismic loads.

Work was supervised by a project manager who is a registered structural engineer in the state of California.

Tunnel Undercrossing and Retaining Walls
Yerba Buena Island, San Francisco, CA
Senior Engineer
January 2020 – September 2023

I analyzed the 253-ft long tunnel by developing a finite element model of the tunnel including the soil-structure interaction. I designed the CIDH piles supporting the tunnel. I analyzed the tunnel for gravity, vehicle, seismic, and ground displacement loading due to slope failure. I analyzed the adjacent four retaining walls (lengths of 856 ft, 214 ft, 215 ft, and 114 ft). I analyzed these walls for seismic and ground displacement loading caused by slope failure.

Work was supervised by a project manager who is a registered structural engineer in the state of California.

Lakeland Bridge, California High-Speed Rail

Tulare County, CA

Senior Engineer

March 2020 – December 2020

I developed the finite element models which include rail-structure interaction and soil-structure interaction. I analyzed the bridge for gravity and seismic loads. I analyzed the bridge to determine compliance with California High-Speed Rail Design Criteria. I reviewed the plans to ensure compliance with the design calculations and the design criteria.

Work was supervised by a project manager who is a registered structural engineer in the state of California

Los Angeles International Airport Automated People Mover (APM) Guideways (Bridges)

Los Angeles, CA

Senior Engineer

October 2018 – December 2020

I designed the substructure which consists of two-column bents on CIDH piles of the 3GW3 segment of the guideway network. It is a three-span post-tensioned box girder bridge with bifurcation to support the eastbound and westbound APM. I developed a finite element model of the guideway segment. I analyzed the bridge for gravity, APM, and seismic loading. I supervised the development of plans and details.

I analyzed five other segments (1GW1, 1GW2, 1GW3, 1GW5, 3GW1) for gravity, APM, and seismic loading. These segments include horizontally curved, segmental, post-tensioned box girder bridges. I reviewed the plans to ensure compliance with the design calculations and the design criteria.

Work was supervised by a project manager who is a registered structural engineer in the state of California.

Poso Avenue Underpass Bridge

Wasco, CA

Associate Engineer

April 2018 – June 2019

As independent design check engineer, I analyzed the bridge for gravity loading, high-speed train loading, and seismic loading. I developed the finite element model used in the analysis which includes soil-structure interaction. I reviewed the plans to ensure compliance with the design calculations and the design criteria.


Work was supervised by a project manager who is a registered structural engineer in the state of California.

CHAITANYA PATKI (13-118-01)

All work experience reviewed by two licensed professionals

DISCIPLINE: STRUCTURAL

GENERAL




Applying To
Nevada

Application Type
Comity - PE

Application Date
08/02/2021

Citizenship
India

SUMMARY







Engineering Experience after EAC degree

Total Engineering Experience
9 years, 4 months

Experience under licensed engineer
7 years, 8 months

Disciplinary Action
None reported




EDUCATION




Bachelors in Civil Engineering
University of Pune - Savitribai Phule Pune University
August 2004–May 2008

Masters in Civil Engineering
SUNY, State University of New York, University at Buffalo
August 2008–September 2011



NOTE: First discipline specific structural license.

EXAMS



Fundamentals of Engineering (FE)
Michigan PE
April 2011

Principles and Practice of Engineering (PE)
Civil
Texas
October 2017

NCEES 16HR Structural (SE)
New York
October 2023

LICENSES



Initial License
Texas
Issued: December 2017
Expires: September 2024

Additional Licenses
None

CHAITANYA PATKI (13-118-01)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

RO Engineers & Architects, PC
New York (United States)
Project Engineer
October 2013—June 2015

Verified by
Umesh Sudhakar Gadre
umesh@roengineers.com

Experience Summary
Full-Time
Engineering: 1 year, 8 months
Experience under licensed engineer:
None

TASKS

As a project engineer, performed design and analysis of building and non-building components. Analyzed the building framing elements and connections for gravity and lateral loads. Performed hand calculations for the individual components and connection design. Prepared 3D models for the buildings using RAM Frame, RAM Elements for finite element analysis. Prepared spreadsheets for wind and seismic load calculation; design of lintel angles and for retaining wall design.

Designed reinforcing for existing structural framing elements and connections as a part of existing building repairs/restoration. Performed analysis and design for strengthening of wood framing joists for existing historic/landmarked buildings; included sistering of joists and reinforcing of associated connections. Performed design for repairs and replacement of concrete slabs and beams; load bearing masonry walls.

Prepared calculation package and drawings for review by Senior Engineers.

Prepared construction drawing sets for filing with the building department and for construction.

Design was performed per the 2008 and 2014 New York City Building Code and the appropriate editions of the American Institute of Steel Construction Manual (AISC), the American Concrete Institute Building Code Requirements for Structural Concrete and Commentary (ACI-318), the American Society of Civil Engineers Minimum Design Loads for Buildings and Other Structures (ASCE), the American Wood Council National Design Specifications (NDS) and the American Concrete Institute Building Code Requirements for Masonry Structures (ACI-530).

REPRESENTATIVE PROJECTS

MTA Railway Platform #17 Staircase

Designed new steel framed staircase for the MTA – Penn Station Railway Platform in New York City. Designed the staircase based in compliance with 2008 New York City Building Code and the appropriate editions of AISC Steel Construction Manual and ASCE 7-05 Design Manual. I performed hand calculations to calculate the design strength of steel plate used as treads, diamond plate used at the landing (with bracing provided underneath), steel angles spanning between stringers and channel sections used as stringers. I prepared design drawings and calculation package for filing with MTA and the building official. The work had to be performed over the weekend to avoid interruption to the commuters, assisted Contractor to obtain the necessary work permit. I performed site visit(s) to monitor the construction and to determine conformance with the project drawings and specifications. Prepared site visit and special inspection reports to be filed with building officials as a part of the project close out.

Lower East Side and Red Hook Houses - New York City Housing Authority (NYCHA) Property

Designed dunnage steel to support the new mechanical unit to be installed at the main roof level. Design work included determining accurate dimensions, weight and locations of the mechanical unit. I prepared preliminary layout of the framing to be supported on the existing roof framing and the (3 wythe thick) brick masonry load bearing parapet wall for review by the Architect and Engineer of Record. Performed calculations to determine the available strength of the existing roof framing and the masonry wall per the applicable New York City Building Code based on the year of the construction of the building. Performed hand calculations for the design of dunnage steel for the gravity, snow, live and vibration loads per New York City Building Code and the appropriate editions of AISC Steel Construction Manual and ASCE 7-05 Design Manual. Performed hand calculations for the design of connections (moment and shear connections) for the applied loads. Prepared project drawings with typical frame layout (plans), sections (typical and atypical), typical beam-beam, beam-column connection details. Finalized project drawings, specifications and calculations for filing with the building official.

Lehman College (Swimming Pool Closure)

Project consisted of converting an existing swimming pool into an assembly hall. I designed the structural steel framing for the same. Swimming pool construction consisted of masonry walls along the perimeter with slab on grade at the bottom. I designed framing consisting of steel beams spanning in the short direction of the pool, verifying compliance with 2008 New York City Building Code and the appropriate editions of the ASCE 7-05 and AISC Steel Construction Manual. Produced set of code

compliant design and construction drawings for filing with the New York City Department of Buildings.

380 Lenox Avenue, New York, NY

As Project Engineer, I provided construction administration and on-site engineering services for the structural repair and masonry roof waterproofing work of a twelve (12) story residential building. Performed periodic site visits to monitor the progress of construction and to address any concerns from the contractors in accurate and timely manner. I prepared site visit reports to update Owner regarding the construction progress and for the reports to be filed with the Building Official. I processed payment applications from the Contractor in accurate and timely manner. Prepared punch-list items before the project close out. Prepared letter of substantial completion and processed final payment applications.

NYCHA Properties: Crown Heights, Brooklyn, NY

Under New York City's - Facade Inspection Safety Program - Cycle 7, performed inspection of the exterior walls and appurtenances from the ground and the roof level. Performed hands on inspection via fire escapes, pipe scaffolds and suspended scaffolds. Compared the existing conditions with the condition reported in the previous cycle filed with department of buildings. Determined conditions that have deteriorated since the previous cycle or recently developed are unsafe and need repairs before the next cycle. Prepared a report on behalf of the client for filing with the building official/authority (NYC Department of Buildings). Prepared scope of work and preliminary budget for client's review and approval. Prepared bid package that included project drawings (Using AutoCAD), project specification and breakdown of base bid items.

CHAITANYA PATKI (13-118-01)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

RAND Engineering and Architecture,
DPC
New York (United States)
Project Engineer
March 2016—September 2022

Verified by
James Michael Vignola
jvignola@randpc.com

Experience Summary
Full-Time
Engineering: 6 years, 6 months
Experience under licensed engineer:
6 years, 6 months

TASKS

Performed structural design & analysis of steel, concrete, masonry & timber structures using governing codes & methods such as LRFD, ACI 318, AISC, ASCE 7-10 and also based on standards, engineering formulas, skills & experience.

Performed roof feasibility studies (strength evaluation of existing structure) to determine feasibility of converting existing roof to recreational roof, green roof, solar roof or for installation of telecommunication towers. Analyzed existing structure per the applicable historic New York City building code.

Performed pre-construction surveys during adjoining building construction. Reviewed developer's demolition and construction drawings and plans to determine conformance to building code requirements. Performed initial site visit to document existing condition/damages to the building components. Performed bi-weekly site visits to document progress of construction and damages to partition walls from vibrations if any.

Performed FISP (Local Law 11) inspections and forensic investigation services and exploratory (destructive and non-destructive) surveys/testing for historic buildings.

Prepared engineering drawings & specifications for filing with building officials and for construction. Prepared calculation package & analytical models for review by Senior Engineers..

Performed construction administration including review of shop drawings, submittals, responding to RFI's from Contractor, site visits and special inspections.

Performed Structural Special Inspections to assure conformance and quality assurance/quality control of construction to the project documents and to the applicable building codes. As a ICC Certified Special Inspector performed the following inspections: Masonry; Structural Steel – Erection and Bolting; Structural Steel – Welding; Sprayed Fire Resistant Materials; Concrete cast-in-place.

REPRESENTATIVE PROJECTS

84-51 Beverly Road, Queens, NY – Roof Feasibility Study (08/2016 - 10/2016)

Analyzed existing main roof framing to determine the reserve capacity for conversion into a recreational roof terrace. Co-ordinated probes at main roof or from apartment below to determine the existing roof construction and framing layout. Prepared a roof evaluation letter report for review of the owner/client, indicating the findings from the study and the options for conversion of the roof into recreational deck, green roof or solar roof panels. Prepared scope of work and preliminary budget for client's review and approval. Analyzed the existing roof structure (wood joists) to determine the available strength per the applicable New York City Building Code based on the year of construction and the appropriate editions of the AISC, ACI and ASCE design manuals.

215 West 88th Street, New York, NY – FISP 8th Cycle Repairs - Spandrel Beam Reinforcing (10/2016 - 2/2017);

Prepared repair drawings for existing deteriorated structural steel spandrel beam exposed during facade repairs at the building. Performed initial site work to determine the nature and extent of damage to the steel surfaces. Prepared project drawings and documents for construction and performed site visits and special inspections as required. Performed construction management responsibilities including site visits during construction to review contractor progress and making design changes for conditions revealed during construction.

100 West 80th Street, New York, NY – Cellar Studio Renovation (06/2017 - 12/2017)

Existing cellar of the building was required to be converted into a studio room. I performed initial site visit and performed probes to determine the existing framing. The floor framing consisted of steel beams and girders framing into steel columns with terra-cotta arched slab. I performed hand calculations for analyzing the existing framing per the applicable NYC Building Code based on the year of construction of the building and determined the reserve capacity of the framing. Designed the connection supports for new sound isolation panels. Installation of unistruts as a support system was determined to be a solution. I also designed the reinforcing details for beams where section loss due to corrosion was observed. The design work was carried out per the appropriate editions of the AISC, ACI-318, and ASCE 7 codes.

164 East 83rd Street, New York, NY - Adjacent Construction Evaluation (01/2018 - 06/2018)

Performed pre-construction survey of building structure prior to demolition of adjoining 5 story and construction of new 6 story building. Prepared a survey report documenting the condition of existing damages and provided recommendations including installation of vibration monitors in the basement and particularly at locations that were likely to damage during the demolition process. Performed bi-weekly site visits to monitor condition of building and the review the vibration monitor reports.

609 Fifth Avenue, New York, NY (10/2017 - 02/2018)

As a Special Inspector, performed the following inspections in accordance with Chapter 17 of the 2014 New York City Building Codes: Masonry; Structural Steel – Erection and Bolting; Structural Steel – Welding; Sprayed Fire Resistant Materials; Concrete cast-in-place during the renovation program at the building that required reinforcing of existing steel columns and installation of new horizontal bracing systems.

2711 Henry Hudson Parkway, Bronx, New York – Garage Rooftop Evaluation (08/2017-10/2017)

Analyzed existing main roof framing structure to determine the reserve capacity of the structure for converting the existing roof into a recreational roof. Performed probes to determine the existing roof construction and framing layout. Prepared scope of work and preliminary budget for client's review and approval.

Castle Village (212 Cabrini Boulevard), New York, NY – Garage Repair Program (07/2018 - 06/2022)

Performed a repair program for deteriorated 4-storey reinforced concrete parking garage structure . Performed visual observation of the garage to identify the location of deteriorations followed by sounding of concrete surfaces (floor & ceiling). Performed analysis to determine capacity of concrete framing and designed reinforcing as required including design of corrosion protection system.

CHAITANYA PATKI (13-118-01)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Walter P Moore
New York (United States)
Project Manager
September 2022—November 2023

Verified by
Christopher Paul Pinto
CPinto@walterpmoore.com

Experience Summary
Full-Time
Engineering: 1 year, 2 months
Experience under licensed engineer:
1 year, 2 months



TASKS

As a Project Manager I am responsible to lead projects with team of internal consultants and assist Senior Project Managers with project tasks. Typical projects include both residential and commercial buildings for assessment of existing building elements and facade inspections. Work also includes analysis, design, detailing and preparation of design drawings suitable for construction. I am also involved in construction administration duties and am responsible to ensure successful completion of the project.



REPRESENTATIVE PROJECTS

515 Post Oak Boulevard, Houston, TX 77027 – Roof Top Unit - Dunnage Steel Design

Evaluated existing building 3rd floor roof structural framing to support added loads from the proposed rooftop mechanical unit. Designed dunnage steel to support the new mechanical unit. Design included structural analysis, design, and documentation as required for the two roof framing openings, curbing, and a roof flashing detail. Documentation included preparation of structural plans, details, and specifications for the structural portions of the modifications..

641 6th Avenue (Avenue of the Americas), New York, NY - 10011 – Miscellaneous Steel Reinforcing

Project consisted of design/reconfiguration of rooftop amenity space at the building main roof where conversion of the existing unoccupied roof to an occupied roof was performed. During construction existing structural steel beams were observed to be severely deteriorated with significant section loss requiring reinforcing/repairs. Produced a set of code compliant design drawings suitable for construction and for filing with the New York City Department of Buildings.

Tressa Apartments (909 North 143rd Street, Seattle, Washington) Below Grade Parking Garage I Due Diligence Structural Assessment

Performed due-diligence survey that included visual observations of the three-story below grade parking structure, plaza deck/podium at the 1st floor immediately above, to document any damages/deterioration of the structure. Prepared report documenting the observed deterioration including photographic documentation of representative deteriorated conditions, repair and general maintenance recommendations, and preliminary opinion of probable construction costs.

Miscellaneous Parking Garage Inspections

Performed Local Law 126/21 Periodic Inspections of Parking Structures and submitted report with New York City Department of Buildings.

BAILEY RAMLER (17-923-18)

All work experience reviewed by two licensed professionals

DISCIPLINE: STRUCTURAL

GENERAL




Applying To
Nevada

Application Type
Comity - PE

Application Date
12/18/2023

Citizenship
United States

SUMMARY









Engineering Experience after EAC degree
5 years, 11 months

Total Engineering Experience
5 years, 11 months

Experience under licensed engineer
5 years, 11 months

Disciplinary Action
None reported




EDUCATION



Bachelors in Civil Engineering (EAC)
Michigan Technological University
August 2014–December 2017

EXAMS




Fundamentals of Engineering (FE)
Michigan PE
July 2017

Principles and Practice of Engineering (PE)
Civil
Michigan PE
April 2021

NCEES 16HR Structural (SE)
Nevada
October 2023

NOTE: First discipline specific structural license.

LICENSES



Initial License
Michigan PE
Issued: January 2022
Expires: January 2024

Additional Licenses
None

WORK EXPERIENCE

POWER Engineers
Michigan (United States)
Transmission Line Engineer II
January 2018—July 2019

Verified by
Simon Clayton Murley
simon.murley@powereng.com

Experience Summary
Full-Time
Engineering: 1 year, 6 months
Post EAC degree: 1 year, 6 months
Experience under licensed engineer:
1 year, 6 months



TASKS

My tasks as a transmission line engineer generally fell into 3 categories. The first of which was laying out the geometry of individual structures to accommodate electrical clearances and placing different types and heights of structures on an alignment to properly support conductor cables and again providing adequate electrical clearance to other objects and to components of the transmission structures. The second general task was determining the design tension to set conductor cables to and designing the structures to carry the loads from these conductors including wind and ice loads. I calculated loads applied to steel structures and analyzed lattice tower structures. Lastly, the third main task was documentation of the engineering calculations and design. For engineering calculations I prepared calc packages for review by other engineers, and for construction drawings I provided markups to drafters and reviewed completed drawings.



REPRESENTATIVE PROJECTS

Jerseyville NW- Roodhouse West
(2018)

Location: Jerseyville, IL to Roodhouse, IL

This project was a 138kV transmission line with approximately 430 single-circuit wood and steel transmission line structures. I assisted with layout of structures, selecting the proper type of structure for the line angle, and selecting the proper height structure to provide adequate clearance to obstructions. I calculated loads for steel structures which were designed by the fabricator.

RS Wallace - Springbay & Caterpillar 2 - Hines
(2018-2019)

Location: Peoria, IL

This project was a double-circuit 138kV transmission line with wood & steel h-frame structures, custom steel monopole structures, and analysis of existing lattice tower structures. For the lattice tower analysis, I developed models to analyze the towers for new loads from new conductors, this included calculating inputs for member connection design like shear and tension areas used in block shear calculations. For the steel monopole structures, I calculated design loads based on conductor tension and wind/ice loads on conductors.

BAILEY RAMLER (17-923-18)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Comprehensive Engineering
Michigan (United States)
Structural Engineer
July 2019—December 2023

Verified by
GORDON RICHARD SIBLE
gordons@compeng.com

Experience Summary
Full-Time
Engineering: 4 years, 5 months
Post EAC degree: 4 years, 5 months
Experience under licensed engineer:
4 years, 5 months



TASKS

Starting at the beginning of a project, I calculate environmental loads which are commonly snow and wind in Michigan. I also determine the live loads to use for design based on the intended use of the structure. The next step I take is typically to review a preliminary architectural plan and determine what and where the main lateral force resisting elements will be and begin to layout the gravity framing system including columns, bearing walls, beams, and joists. I size structural elements either as individual calculations using MathCAD, MS Excel, or combined into structural analysis programs such as RISA, RAM Elements, and RAM Structural Systems. I create drawings almost always in Revit. Lastly, once a project has moved into the construction phase I review submittals and respond to RFIs to ensure the contractor is building in accordance with the structural drawings.



REPRESENTATIVE PROJECTS

Best One Tire Center

- (2019-2020)
- Location: Byron Center, MI
- 20,000sf pre-engineered metal building (PEMB) with a conventionally framed mezzanine using hot-rolled steel and open web steel joists
- I designed foundations for the PEMB including cantilevered retaining walls at a truck dock.
- I calculated dead load of the mezzanine and determined the appropriate live load based on the intended use. I then sized open web steel joists and wide flange beams as girders.

Glen Lake Schools Team Buildings

- (2020-2021)
- Location: Glen Arbor, MI
- Total of (2) buildings at about 2,000sf each
- CMU load-bearing walls with glulam roof framing and laminated wood roof decking
- I calculated design loads for snow, wind, and seismic. I designed the masonry walls, lintels, glulam beams, and foundations.

Plymouth Rd Animal Clinic

- (2020-2021)
- Location: Grand Rapids, MI
- Single-story building approximately 7,000sf
- Concrete foundations, SIP walls, wood roof trusses, and a flat mechanical roof using steel wide flange beams and open web steel joists.
- I calculated design loads, designed the foundations, and designed the steel framing.
- SIP walls (structural insulated panels) and roof trusses were a delegated design. I reviewed these designs for general conformance to the performance criteria.

6774 Preserve Dr Residence

- (2021 - 2023)
- Location: Bay Harbor, MI
- Primarily wood framed with some steel and concrete plank
- Private residence 12,000sf
- I was the primary client contact for the project. I calculated design loads, designed wood shear walls and steel moment frames.
- The foundation design included using RISA to analyze all of the foundation walls together for lateral earth pressure on only 3 sides of the building due to a walk-out basement.

West Michigan Beef

- (2021-2023)
- Location: Hudsonville, MI
- Steel, CMU, and precast concrete.
- 70,000 SF industrial building
- I was the primary client contact. I designed all of the foundations, steel framing, masonry walls. I reviewed delegated design submittals for precast concrete wall panels and precast concrete plank floor decking.

Camp Madron Residence


- (2021-2022)
- Location: Buchanan, MI
- 5,000sf private residence
- Wood framed with conventional dimensional lumber, engineered I-joists, and glulam beams.
- I designed the foundations which included retaining lateral earth pressure on (3) sides.
- I designed the wood shear walls, and all wood framing.

FAIZAN SIDIQI (20-495-41)

All work experience reviewed by two licensed professionals

DISCIPLINE: STRUCTURAL

GENERAL




Applying To
Nevada

Application Type
Comity - PE

Application Date
12/18/2023

Citizenship
India

SUMMARY






Engineering Experience after EAC degree

Total Engineering Experience
3 years, 9 months

Experience under licensed engineer
3 years, 9 months

Disciplinary Action
None reported



EDUCATION



Bachelors in Civil Engineering
National Institute of Technology - Srinagar
July 2013–June 2017

Masters in Civil engineering
University of Washington
September 2018–December 2019

NOTE: First discipline specific structural license.

EXAMS




Fundamentals of Engineering (FE)
California
September 2019

Principles and Practice of Engineering (PE)
Civil
California
October 2020

NCEES 16HR Structural (SE)
Nevada
October 2023

LICENSES



Initial License
California
Issued: October 2021
Expires: March 2024

Additional Licenses
None

WORK EXPERIENCE

Englekirk Structural Engineers
California (United States)
Design Engineer
January 2020—March 2021

Verified by
Claudio Andrea Coletta Martinez
Claudio@anc2engineering.com

Experience Summary
Full-Time
Engineering: 1 year, 2 months
Experience under licensed engineer:
1 year, 2 months

TASKS

As a design engineer at Englekirk, I have worked on a variety of building systems, designing the gravity and lateral system, and performing seismic evaluations. I have been responsible for the design of foundations, slabs, concrete shear walls and columns, wood shear walls, structural steel systems, and connections.

REPRESENTATIVE PROJECTS

Some of the projects I have worked on with the project role are as follows:

a) Project: Las Palmas Modular Housing, Los Angeles, CA

A residential building consisting of 6 levels of steel modules supported by 2 levels of concrete with concrete shear walls as LFRS. Responsible for the design of steel modular framing, columns, concrete shear walls, slabs, and mat foundation.

b) Project: La Terra Burbank, Los Angeles, CA

7-story residential cum commercial wood over podium building, with 573 apartments and a 307-room hotel. Designed and provided reinforcement detailing for the podium slab at 2 residential towers. Responsible for the design of landscaping and architectural items.

c) Project: Mirman School, Los Angeles, CA

A school building consisting of 2 story wood building, with wood shear walls as LFRS. Responsible for analysis and design of lateral force resisting system of the building.

d) Project: UCLA – Seismic evaluations

Seismic evaluation of various buildings per ASCE 41-17

- Dodd Hall, Los Angeles, CA: Performed Tier 1&2 analysis of a 5-story concrete building
- Cedars Lodge, Lake Arrowhead, CA: Performed Tier 1&2 analysis of a 2-story timber building
- Engineering IV, Los Angeles, CA: Performed Tier 1 analysis of Hazard. Laboratory and steel bridge. LFRS consist of concrete shear walls and concentric braced frames respectively

e) Project: Playa Pacifica, Los Angeles, CA

Seismic retrofit of an existing 4-story CMU building

Assisted in creating the ETABS structural model. Designed shotcrete shear walls and foundation.

f) Project: Los Angeles Unified School District Schools

Design of structural components for LAUSD projects

- LAUSD Canyon School, Los Angeles, CA: Responsible for the design of steel stairs and roof screen
- LAUSD Mckinley School, Los Angeles, CA: Design of steel stairs and lunch shelter

g) Project: Westside Pavilion, Los Angeles, CA

Seismic retrofit and tenant improvement of 5 5-story steel building

Designed steel stairs and steel framing to support the roof cooling tower. Reviewed shop drawing submittals.

h) Project: Hilgard Ave., Los Angeles, CA

Residential wood over podium project

Designed and analyzed podium slab using RAM concept. Performed diaphragm analysis, and provided reinforcement detailing

WORK EXPERIENCE

Solid Rock Structural Solutions Inc
California (United States)
Associate
May 2021 – December 2023

Verified by
Roger P Young
roger.young@SRSSinc.com

Experience Summary
Full-Time
Engineering: 2 years, 7 months
Experience under licensed engineer:
2 years, 7 months



TASKS

As an associate, I bear responsibility for various aspects of project management, including project design, production, coordination, and construction administration. I am particularly involved in projects that are based on seismic evaluation and retrofit of existing structures.



REPRESENTATIVE PROJECTS

Some of the projects I have been working on are as follows:


- a) Project: Torrance Memorial Medical Center, Central Tower- SPC 4D Upgrade (OSHDP)
Upgrade of an existing building using fluid viscous dampers and additional FRP strengthening.
Responsible for the nonlinear time history analysis, modeling of the structure, and providing retrofit strengthening schemes.
- b) Project: Torrance Memorial Medical Center, Cath Lab Remodel (OSHDP)
Upgrade of an existing facility with addition and replacement of new equipment, involving localized structural strengthening
Responsible for the design and construction administration. Duties involve coordinating with the architect, contractor and the OSHPD officials. Responding to RFI's.
- b) Project: Southern California Edison Seismic Evaluation, Ventura, CA
Mechanical and Electrical Equipment building consisting of CMU walls and wood diaphragms as LFRS
Performed Tier 1&2 analysis per ASCE 41-17. Generated detailed analysis report with retrofit schemes. Provided adequate seismic anchorage to the equipment.
- c) Project: Blokable, CA
Research and development of a new building system based on modular construction.
Responsible for the finite element modeling of proprietary moment frame connections, analyzing and detailing building components.
- d) Project: City of Hope Hospital, Duarte, CA
Seismic anchorage to medical/ MEP equipment
Provided seismic anchorage and detailing of medical and MEP equipment.
- e) Project: Torrance Memorial Medical Center, Boiler Room (OSHDP)
SPC 4D upgrade of the existing building
Responsible for the analysis, and providing construction documents for the seismic upgrade.
- f) Project: DISC, Marina Del Rey, CA
Tenant Improvement to an existing building consisting of steel and wood framing with tilt-up concrete walls
Retrofit of existing building along with providing seismic anchorage to the new equipment.

MEERA SINGHAL (17-055-72)

All work experience reviewed by two licensed professionals

DISCIPLINE: STRUCTURAL

GENERAL




Applying To
Nevada

Application Type
Initial - PE

Application Date
12/22/2023

Citizenship
India

SUMMARY








Engineering Experience after EAC degree


Total Engineering Experience
7 years, 5 months

Experience under licensed engineer
5 years, 4 months

Disciplinary Action
None reported



EDUCATION




Meets NCEES Engineering Education Standard

Bachelors in Civil Engineering
Thapar University of Engineering and Technology
July 2012–July 2016

Non-degree
The College Board - CLEP
April 2017–August 2017

Masters in Civil Engineering
Ohio University
May 2019–December 2020



NOTE: First discipline specific structural license.

EXAMS



Fundamentals of Engineering (FE)
Ohio
March 2018

Principles and Practice of Engineering (PE)
Civil
Wisconsin
March 2022

NCEES 16HR Structural (SE)
Wisconsin
October 2023

LICENSES



Additional Licenses
None

WORK EXPERIENCE

Systra India
Delhi (India)
Structural Engineer Intern
June 2015—December 2015

Verified by
Sachin Surendran
ssurendran@systra.com

Experience Summary
Full-Time
Engineering: 6 months
Experience under licensed engineer:
None



TASKS

1. I designed entry-exit structures for Metro Rail projects which are usually two to four story concrete buildings to provide access to the elevated Subway Stations. The design included:
 - 1.1. Modelling of structures in STAAD Pro and designing in accordance with IS13920, IS 456.
 - 1.2. I performed calculations to design column, beams and slab of these structures.
 - 1.3. Roughly 6 structures were designed by me.
2. I learned the design of station beams and columns and designed some concourse level beams during this time.



REPRESENTATIVE PROJECTS

Lucknow Metro rail Project - It is the red line which consists of 21 metro stations with elevated and underground stations. I was part of elevated metro station team.

Role - Structural Intern

Initially, I read through the code books, learnt the detailing of reinforcement and calculations for structural elements that include column, beam and slab. As I got familiar with these, I was involved in modelling the structures in STAAD Pro and designing it with IS456. I also spent some time in learning dynamic analysis for seismic calculations and was responsible for 6 two to four story structures during Internship.

Gradually, I spent some time using OASYS, a software to check the concrete stress and later I learnt the few concepts of post tensioned girders used for rail track for example, the bursting and spalling reinforcement.

Since, I was an intern, I was kept limited in the responsibilities.

WORK EXPERIENCE

Systra India
Delhi (India)
Structural Engineer
July 2016–February 2018

Verified by
Sachin Surendran
ssurendran@systra.com

Experience Summary
Full-Time
Engineering: 1 year, 7 months
Experience under licensed engineer:
None



TASKS

- Initially, I designed entry-exit structures for Metro Rail projects which are usually two to four story concrete buildings to provide access to the elevated Subway Stations. The design included:
 - 1.1. Modelling of structures in STAAD Pro and designing in accordance with IS13920, IS 456.
 - 1.2. I performed calculations to design column, beams and slab of these structures.
 - 1.3. Roughly 40-50 structures were designed by me.
- I learned the design of station beams and columns and designed some concourse level beams during this time.
- I designed the track slab on the platform level evolving the analysis of moving load of Train.



REPRESENTATIVE PROJECTS

- Lucknow Metro Rail Project Phase 1 and Phase 2 (July 2016-June 2017)- When I started in the company, the Phase 1 was almost completed, I was part of Phase 2 project as a Structural Engineer that involved 10 Stations. I was trained to analyze the concrete structures in STAAD Pro. I started with the entry exit structures that provide access to these stations. Later, I performed and designed the foundations and superstructure for the project. The foundation design involved the shallow as well as deep foundations. Deep foundations such as pile foundations were designed for Station columns because of excessive loads. I studied the type of loads that needed to be used in the analysis like dead, live, temperature, braking and traction from train etc. At the last, to check the design results provided by the software against the allowable limits. By the end of the project, I was capable to train another project engineers and I trained two engineers.
- Nagpur Metro Rail Project (June 2017-February 2018) - Just after completing the Lucknow Metro Rail Project Phase II, I was part of Nagpur Metro. It was similar project and It was mostly designed as precast structure. I designed the same entry-exit structures and prepared drawings for station structures that included, the beam and slab layout plan.

WORK EXPERIENCE

Basic Systems
Ohio (United States)
Civil engineer

August 2018—September 2021

Verified by
Robert Jack Palfi
rpalfi@bsicos.com

Experience Summary

Full-Time

Engineering: 3 years, 1 month

**Experience under licensed engineer:
3 years, 1 month**

TASKS

1. I created grading plans involving contours, site layouts and performed calculations for cut and fill for all the projects I was responsible for.
2. My duties included design and analysis of foundations for self framed and rigid buildings, petrochemical equipment's in accordance with ACI 318, IBC and local jurisdictions and I completed them.
3. I also designed pipe racks ,cable tray steel rack supports, engine/compressor intake and exhaust steel subjected to wind and seismic loadings and other miscellaneous steel calculations in STAAD Pro based on AISC LRFD Design Approach.
4. As part of my responsibility, I also designed and analyzed storm shelters (tornado/hurricane shelters) in accordance with ICC500 in STAAD Pro in states of MS, KY, MI and IN.
5. Preparation of specifications and permits for the compressor, auxiliary and MCC buildings were also done by me for the projects I was responsible for.
6. I performed the static and dynamic analysis for the centrifugal compressor foundations in accordance with ACI 351.3R-04.
7. I have designed pile foundations using geotechnical information and have reviewed geotechnical reports for p-y graphs from L-pile analysis.
8. I have created couple spreadsheets for the company for design of base plates for both I-beams and HSS members, spread foundations using ASD and LRFD load combinations, dynamic calculations for pile spring constants and soil spring constants, calculation of pile rebar and anchor bolt design spreadsheet for tension and shear rebar.
9. I followed the required codes for example OSHA for design of all platforms, walkways and other structural components.

REPRESENTATIVE PROJECTS

I coordinated between mechanical and electrical disciplines and project manager in all of the projects below. I have been part of bi-weekly meetings in all of these projects and have answered/ asked the required questions for successful completion of projects on time. I also provided borehole location plot plans for all the projects listed below. Below is the list of the few projects that were completed by me under responsible supervision of Robert Palfi, PE and Thomas Stemmer, PE.

1. MEPCO Compressor Station, WV - I designed the building foundations, filter separator foundations, pipe supports. I designed the number of helical piles required based on geotechnical report. This was my first project and I was attaining a lot of information of codes like ACI 318 and AISC manual for design of concrete and steel. I was supervised the whole time and all the drawings designed by me were reviewed and checked by Professional Engineer.
2. Athol Compressor Station, ID - This was a small project and I designed cable tray supports, gas cooler addition and pipe supports. So I designed all other steel supports and foundations. The problem here was snow load of 90 psf and it which caused the steel for the cable tray supports to be huge and resulted in larger spread foundations, which were taken care by me.
3. Starbuck Compressor Station, WA - This project was also a small project and I was more confident in the design for cable tray supports. I designed MCC building foundations on this project, some pipe supports and gas cooler foundations. This project had a lot of issues because of buried pipes and conduit and which created scope creep.
4. Switzerland Compressor Station, OH - This was a unit - 4 addition project and I performed detailed analysis and design of reciprocating engine/compressor, building extension and design of compressor building, foundations for light poles, transformers, cable tray supports, intake and exhaust supports and a lot of other spread foundations for mechanical and electrical equipments.
5. Augusta Compressor Station, OH - This was a new site and I did design and analysis of all equipment foundations, compressor and auxiliary building, pipe supports. All foundations were spread foundations and local jurisdictions were followed by me.
6. Leaf River Compressor Station , MS - It involved design of pump foundations, pipe supports and cable tray supports. Steel was designed and analyzed by me in STAAD Pro.
7. Montezuma Compressor Station, KS - This is a very small project from civil perspective and I designed gas coolers foundation addition, generator foundation, Motor Control Center Building Foundation and some pipe supports.
8. Bridgman Compressor Station, MI; Celestine Compressor Station, IN; Madisonville Compressor Station, KY; Sardis Compressor Station, MS - I designed the concrete storm shelters in the office/warehouse buildings on all of these projects based on ICC 500 and performed the calculations in STAAD Pro. Also, I have performed the dynamic and static calculations for

Mars100, Taurus70 and Titan130 in all of these projects using codes and running time history analysis in STAAD Pro. Sardis is on the auger cast piles because of the poor soil and heavy equipments. I designed the quantity and rebar of the piles based on the information mentioned in the geotechnical report.

In my last few projects, I made some good engineering decisions which make me feel more confident and completed the projects on schedule.

WORK EXPERIENCE

Jacobs Engineering Group
Wisconsin (United States)
Structural Engineer
September 2021 – December 2023

Verified by
Daniel Eric Means
Danny.Means@jacobs.com

Experience Summary
Full-Time
Engineering: 2 years, 3 months
Experience under licensed engineer:
2 years, 3 months



TASKS

I began my journey at Jacobs as a Structural Engineer, focusing on Trestle design as the Lead Engineer at the AZ site. My role encompassed designing a new level of steel, involving structural analysis of the trestle, designing steel connections, and retrofitting the foundation, anchorage, and lateral resisting system to withstand wind and seismic forces.

Afterward, I shifted to working on MEP (Mechanical, Electrical, and Plumbing) conveyance supports. Over a period of approximately six months, I dedicated my efforts to designing unistrut racks and steel racks, contributing to the effectiveness of these crucial systems.

In the next phase of my career, I assumed the role of sub-lead for a confidential Client in Israel. Leading a team of about 10 engineers, I guided the design process for MEP supports. Together, we successfully navigated the complexities of the project, ensuring that its completion aligned with our objectives.

My tenure at Jacobs has not only broadened my technical skills but has also given me opportunities to lead and collaborate with diverse teams. This experience has deepened my understanding of structural systems, refining my leadership abilities. I've gained valuable insights into overcoming engineering challenges, ensuring that projects are not only well-designed but also successfully executed.



REPRESENTATIVE PROJECTS

During my time at Jacobs, I engaged in two projects for a Confidential Client, spanning sites in Arizona (AZ) and Israel. Starting as a Structural Engineer, within a year, I transitioned into a sub-lead role, providing support to a team of nearly 10 engineers.

My journey began at the AZ site, where I focused on trestle design. This encompassed a range of tasks, including structural analysis, steel member design, steel connections, retrofitting the lateral force resisting system, and upgrading anchorage and foundation elements. I developed 2D drawings, a 3D Navisworks model, and connection details, ensuring seamless coordination with mechanical, process, and pipe stress disciplines for loading considerations.

Following the completion of the trestle design, I turned my attention to designing around 10 small racks supporting mechanical, plumbing, and electrical systems. Collaborating across disciplines, I conducted analyses using unistruts and steel shapes. The result was the development of 2D detail sheets and 3D Navisworks deliverables, contributing to the overall efficiency of these critical systems.

On my second project, I assumed the role of sub-lead, overseeing a team of 30 engineers, with 10 reporting directly to me. I took a hands-on approach, addressing and resolving design challenges related to conveyance supports. Over the course of almost a year, I actively participated in reviewing the technical design, ensuring adherence to codes, guidelines, and client requirements. Successfully navigating through this project, I demonstrated my ability to lead, solve problems, and collaborate effectively within a large team.

In essence, my experience at Jacobs involved a dynamic journey from structural design to leadership roles, where I successfully contributed to the completion of projects while adhering to industry standards and client expectations.

YUANDONG WANG (16-795-40)

All work experience reviewed by two licensed professionals

DISCIPLINE: STRUCTURAL

GENERAL

i

Applying To
Nevada

Application Type
Comity - PE

Application Date
10/07/2021

Citizenship
China

SUMMARY

Engineering Experience
after EAC degree

Total Engineering
Experience
9 years, 7 months

Experience under licensed
engineer
6 years, 7 months

Disciplinary Action
None reported



EDUCATION

Meets NCEES Engineering Education Standard

Bachelors in Civil Engineering
Qingdao University of Technology
September 2003–July 2007

Masters in Civil Engineering
Beijing University of Civil Engineering and Architecture
September 2010–July 2013

Doctorate in Civil and Environmental Engineering
University of Utah
August 2013–December 2017

NOTE: First discipline specific structural license.

EXAMS

Fundamentals of Engineering (FE)
Utah
April 2017

Principles and Practice of Engineering (PE)
Civil
Utah
April 2019

NCEES 16HR Structural (SE)
Nevada
October 2023

LICENSES

Initial License
Utah
Issued: December 2019
Expires: March 2025

Additional Licenses
NV, WA

YUANDONG WANG (16-795-40)

All work experience reviewed by two licensed professionals

WORK EXPERIENCE

Tsingtao Brewery Co. LTD
Shandong (China)
Structural Engineer
August 2007 – August 2010

Verified by
Ning Yi
yining@tsingtao.com.cn

Experience Summary
Full-Time
Engineering: 3 years
Experience under licensed engineer:
None



TASKS

Provide structural engineering calculations, and structural engineering plans, designs, layouts, and fit-up. Perform structural design and analysis calculations using governing codes, specifications, and standards (GB50009, GB50011, GB50007, GB50010, etc.). Serve as Project Engineer and as a designated Client contact on projects. Coordinate work with other disciplines such as architectural, mechanical, sprinklers, etc. Use computer-assisted engineering and design software and equipment to prepare engineering design documents. Perform field activities such as observe and record existing field conditions, take and verify measurements within the project area. Communicate with Project Management to determine designs that take into consideration installation methods and/or limitations. Coordinate with Purchasing and Manufacturing. Communicate with the government for land purchase, and permit process.



REPRESENTATIVE PROJECTS

I worked on a cooling system building from 08/2007 to 05/2008. It was a one-story reinforced masonry building with reinforced concrete footings and foundations and a concrete suspended slab roof. I performed calculations for the masonry and the concrete portion of this building and provided drawings for construction. I also conducted the construction administration by overseeing the construction budget and schedule.

I worked on a brewery production and warehouse project from 06/2008 to 07/2010, from site preparation to construction. I conducted communication between the owner and the government for the land purchase and permit process. I led designing steel braced-frame systems and open web steel joists for a long-span (450 ft. long) warehouse. This building was 180,000 SF, including an 80,000 SF production area and a 100,000 SF finished goods distribution area. I also sized the reinforced concrete footing and anchorage to resist the uplift force from the braced frames. During construction, I reviewed the steel, reinforcing, concrete submittals and conducted site construction administrations. I also communicate with the contractor and other disciplines to follow the project schedule. Thus, I reviewed the project budget to match the structural drawings and project estimates.

WORK EXPERIENCE

BHB Consulting Engineers
Utah (United States)
Project Engineer
May 2017—November 2020

Verified by
Nathan Miller
nate.miller@bhbenigneers.com

Experience Summary
Full-Time
Engineering: 3 years, 6 months
Experience under licensed engineer:
3 years, 6 months



TASKS

Perform structural calculations, design structural members. Interpret building codes and material codes. Work on design of concrete and steel structures. Redline structural drawings and details; hand sketch and convey construction details. Perform site visits to observe that structure complies with plans. Check shop drawings for compliance with approved plans. Resolve field issues and respond to requests for information from clients. Travel requirement, about 20% of the time. Requires Master's Degree in Civil Engineering, and, background in all of the typical building materials including concrete and steel; structural dynamics, prestressed concrete design, seismic retrofit of structures, and structural earthquake engineering; knowledge of commercial finite element software for both steel and concrete structures such as Abaqus, SAP 2000 or similar; knowledge of codes like ACI 318, ASCE 7-10, IBC and AISC.



REPRESENTATIVE PROJECTS

1. I worked on the Staybridge Suites Carson City projects from 01/2019 to 07/2020. This project is a three-story wood hotel structures located in Carson City, NV. I performed the structural calculations for all structural wood members, including the wood roof and floor diaphragm, wood beams and headers, wood gravity and shearwalls, and structural seismic connections. I reviewed all structural submittals during the construction phase and conducted a site visit on 06/2020. The building has been built now.
2. I worked on the Herriman Liquor Store project located in Herriman, UT, from 02/2018 to 06/2019. This commercial building is an integrated structure that includes a cross-laminated timber roof (CLT) with open web steel joists, steel columns, structural masonry walls, and wood glulam beams. It was the first building with a CLT roof in Utah, and it was awarded the project of year award for small commercial building in 2019. I performed the structural calculations for all structural members and structural details for the CLT portion. I also conducted the construction administration, including reviewing CLT submittals, replying request for information (RFIs), and performing site visits.
3. I worked on the Jordan West medical office project from 11/2019 till 10/2020. This project is located in Salt Lake County, Utah. I developed a numerical model in Ram Structural to analyze and design the two-story steel office building with buckling-restrained braces (BRB). I reviewed all submittals in the construction phase, including BRBs, structural steel, footing and foundation, rebar, etc. The footing and foundation have been built, and the main structure is still under construction.
4. I worked on the West Jordan FMS project from 07/2017 to 10/2018. This is a governmental project located in West Jordan, Utah. I designed the open web steel joists and masonry walls for both gravity and lateral system in this building addition. I also designed the footing and foundation. In the construction phase, I reviewed all submittals, answered RFIs, and made a few site visits. The project was finished in late 2018.

WORK EXPERIENCE

Dennis Group
Utah (United States)
Senior Structural Engineer
November 2020—December 2023

Verified by
Michael C Finkbeiner
Finkbeiner@dennisgroup.com

Experience Summary
Full-Time
Engineering: 3 years, 1 month
Experience under licensed engineer:
3 years, 1 month



TASKS

Working independently on simple and complex projects
Applying extensive and diverse knowledge of principles and practices for a wide range of materials and construction techniques
Performing hand calculations and creating computer analysis models for structural design tasks
Coordinating structural work with other disciplines
Drafting sketches, contract drawings, and specifications using AutoCAD
Reviewing project documentation for conformity and quality assurance
Reviewing shop drawings, submittals, and calculations
Estimating construction costs with quantity take offs and historic costs
Conducting field inspections & condition assessments and prepare reports
Managing and mentoring junior engineers.



REPRESENTATIVE PROJECTS

1. I worked on Turkey Hill Dairy Facility Expansion project from 01//2021 to 07/2021. This project is a 5000 sf processing and storage expansion. I performed structural calculations for all steel structural members, including steel moment frames and concrete on metal deck floor system. It is currently under construction and I have been reviewing structural submittals and shop drawings.
2. I worked on the Sheetz project to design a new gym, an ambient expansion, and a freezer expansion from 03/2021 till the present. The overall building area is 50,000 sf. I developed numerical models in Ram structural to analyze and design the three buildings with steel moment-resistant frames and open web steel joists. I have been managing one junior engineer and one designer to accomplish this project. The design phase has been completed.
3. I am working on a Gold Fish Pepperidge Farm expansion project in Utah, and I have been the engineer of record for this project. It is an existing facility with a few new buildings. The overall new building area is about 200,000 SF. This project is under construction.

GENERAL




Applying To
Nevada

Application Type
Comity - PE

Application Date
12/19/2023

Citizenship
China

SUMMARY







Engineering Experience after EAC degree

Total Engineering Experience
8 years, 5 months

Experience under licensed engineer
7 years, 9 months

Disciplinary Action
None reported

EDUCATION



Bachelors in Engineering Management
Tongji University
September 2010–July 2014

Masters in Civil Engineering and Engineering Mechanics
Columbia University
September 2014–February 2016

NOTE: First discipline specific structural license.

EXAMS




Fundamentals of Engineering (FE)
New Jersey
November 2015

Principles and Practice of Engineering (PE)
Civil
California
April 2019

NCEES 16HR Structural (SE)
Nevada
October 2023

LICENSES



Initial License
California
Issued: December 2019
Expires: March 2024

Additional Licenses
MD PE

WORK EXPERIENCE

Maverick Management Group
New York (United States)
Project Management Intern
September 2014—August 2015

Verified by
Lyerly Spongberg
lSpongberg@trustmaverick.com

Experience Summary
Part-Time
Engineering: 6 months (50%)
Experience under licensed engineer:
None



TASKS

I have managed the project scheduling, using software of Primavera 6, to make sure the schedules are met, and coordinate all parties to meet their requirements.

I have managed the project budgeting, using Microsoft Excel, to make sure the expenditures are estimated reasonably and the proposed budget is met.

I have received and reviewed submittals from the subcontractors, including specifications, samples, testing reports, and renditions. And also delivered the submittals to the architects and clients.

I have helped with CAD team to draw contract drawings, and shop drawings, using AutoCAD. I have also helped with CAD team with project renditions, using Revit and Navisworks. I have also used the BIM model to coordinate in the 3D environment for visualization and clash detection and others.



REPRESENTATIVE PROJECTS

Project Name: Doubletree, Syracuse
Project Location: 6301 NY-298, East Syracuse, NY 13057
Project SOW: Guest Rooms, Lobby, Lounge & Restaurant
My Time on Project: 2014.09-2015.08

I have performed the hotel renovation project estimating, and worked closely with Project Manager and the Client to control the budget and documentations.

I have performed the value engineering, to cut the expenditures.

I have helped with the Project Manager with the change orders, submittal and sample review.

I have also performed the scheduling management, keep track of the status, and solve issues.

WORK EXPERIENCE

Premier Enterprise Co.
New York (United States)
Assistant Project Manager
September 2015—February 2016

Verified by
Xiao Xue
xuexiaokk@gmail.com

Experience Summary
Part-Time
Engineering: 3 months (50%)
Experience under licensed engineer:
None



TASKS

I have designed window wall and storefront systems, drafted shop drawings by AutoCAD of window wall and storefront systems.

I have reviewed architectural drawings and structural drawings of the high-rise hotel project, and I have helped with the rendition of the building by Revit and Navisworks.

I have reviewed structural calculations of the window wall and curtainwall that's prepared by licensed PE, per steel manual (AISC 14th Edition), and by structural analysis software SAP2000.

I have coordinated with manufactures and worked on product specifications review.

I have coordinated with testing agency to get the sample product tested.

I have checked product's thermal performance by THERM 6.

I have managed scheduling by Microsoft Project, and I have managed budget by Microsoft Excel.



REPRESENTATIVE PROJECTS

Marriott AC Hotel (151 Maiden Ln, New York, NY 10038)

A new 32 story hotel reaching 342 feet tall nearby East River. It has numerous technical and logistical challenges, most notably being constructed in a confined space and in a potential flood zone.

Location:

Financial District, NY

Completion Date:

December, 2016 (Anticipated)

Scope Of Work:

Window Wall System, Aluminum Composite Panels, Lobby Storefront, Canopy, Nanawall and Louvers

Owner:

LC Real Estate Group

Contractor:

Pizzarotti IBC

Architect / Consultant:

Peter Poon Architects / Frank Seta Associates

My time on the project: 2015.09-2016.02

I was the Assistant Project Manager on this project.

I have designed custom window wall and storefront systems, drafted shop drawings by AutoCAD of window wall and storefront systems.

I have reviewed architectural drawings and structural drawings of the high-rise hotel project, and I have helped with the rendition of the building by Revit and Navisworks.

I have reviewed structural calculations of the window wall and curtainwall that's prepared by licensed PE, per steel manual (AISC 14th Edition), and by structural analysis software SAP2000.

I have coordinated with manufactures and worked on product specifications review.

I have coordinated with testing agency to get the sample product tested.

I have checked product's thermal performance by THERM 6.

I have managed scheduling by Microsoft Project, and I have managed budget by Microsoft Excel.

WORK EXPERIENCE

WSP USA
New York (United States)
Consultant, Structural Engineer
March 2016—March 2023

Verified by
David Ian Smith
david.i.smith@wsp.com

Experience Summary
Full-Time
Engineering: 7 years
Experience under licensed engineer:
7 years



TASKS

I have been working for WSP USA for 7 years, as a structural engineer. All my working experience with WSP are engineering related.

1. I have performed structural modeling and analysis by structural analysis software, including SAP 2000, STAAD Pro, ETABS, SAFE, Larsa 4D, and I did hand calculations by Excel, MathCAD, Structure Points.
2. I have designed cut and cover structures, mined tunnels, bored tunnels (cast-in-place circular tunnel, precast concrete segmental tunnel lining), facility buildings, existing structures (underground and elevated), and prepared calculation packages. I was in charge of structural analysis and design tasks, prepared calculation packages, and drawing production. I was also responsible for coordination with other disciplines within the tunnel.
3. I have practiced design codes include ACI, AISC, AASHTO, AREMA, NYCT Design Guidelines, NYC Building Codes, IBC, NDS, TMS 402.
4. I have issued sketches and coordinated with other disciplines for structural design and drawing productions. I have prepared submittals of drawings and calculation packages, and performed interdisciplinary review and quality control review.
5. I have done field inspection, I was responsible for making sure the construction complied with contract drawings, sketches, amplified drawings, approved shop drawings, requests for information, etc. My inspections included reinforcement installation, concrete placement, structural steel installation, formwork, etc., and coordinated with special inspectors on job.



REPRESENTATIVE PROJECTS

1. Project Name: Canarsie Tunnel Rehabilitation and Core Capacity Improvements
Project Location: Manhattan and Brooklyn, NY
My Involvement Period: 2016.03-2016.06

I was responsible for structural analysis and design of tunnel typical sections (structural steel frames) by SAP 2000, steel elevator framings by Structural Analysis and Design, steel framings of entrance canopy, steel framings, and concrete slab of ventilator structures for Canarsie Tunnel Project. I have prepared calculation reports.

2. Project Name: Second Avenue Subway Phase 1
Project Location: New York, New York
My Involvement Period: 2016.06-2017.03

I was a field structural engineer, mainly responsible for 86th Station's daily structural and civil inspection of new built TBM tunnels, subway station cavern, ancillary buildings and station entrances. I was responsible for making sure the construction complied with contract drawings, sketches, amplified drawings, approved shop drawings, requests for information, etc. My duties included inspection of reinforcement installation, concrete placement, structural steel installation, formwork, etc., and coordinated with special inspectors on job. I worked with contractors and architects to issue requests for information and sketches; I worked with clients to issue punch list, and checked code compliance items; I worked with estimators of quantity take-off to issue change orders; and I reviewed structural as-built drawings.

3. Project Name: Second Avenue Subway Phase 2
Project Location: Manhattan, New York
My Involvement Period: 2017.03-2021.02

I was responsible for structural design and analysis using SAP 2000 and other structural software, I was also involved in drawings production using MicroStation, quantity take-off, submittal of drawings. I have prepared calculation packages. performed design and analysis of TBM Tunnel (Precast Segmental Liner), Station Cavern (mined station and conventional cut and cover station box) by beam-spring modeling using SAP 2000. I have performed design and analysis of ancillary buildings and entrances by 3D modeling using SAP 2000. I considered lateral forces that transferred from above ground structures to underground structures, and performed seismic analysis of conventional station box. My main design references are New York City Transit Design Guidelines, according to equivalent lateral loads/deformations provided by geotechnical engineers. I have performed adit tunnel and cavern interface 3D analysis using SAP 2000. I have performed design and analysis of standard operating environment (retaining walls, strut and waler systems, footings), and existing structures of Lexington Avenue Stations and Metro North Viaduct at 125th Street.

4. Project Name: ADA UPGRADE OF BROADWAY JUNCTION STATION COMPLEX & CIRCULATION IMPROVEMENTS

Project Location: BOROUGH OF BROOKLYN, New York

My Involvement Period: 2019.10-2021.06

I have performed structural analysis of existing elevated subway stations (J,Z trains) of existing condition and proposed condition. I have designed structures including existing canopy framing and posts, mezzanine beams and columns, platform floor beams and girders, longitudinal girders, columns and footings, based on station record drawings. I have mainly used references of NYCT Design Guidelines, AISC, ASCE 7, and ACI. I have prepared calculation reports for submission.

5. Project Name: I-84 Danbury Project

Project Location: Danbury, Connecticut

My Involvement Period: 2021.02-2021.05

I was responsible for feasibility study for the tunnel option of the Interstate 84 Danbury Project. I have considered depressed highway, cut and cover tunnel, mined tunnel by drill and blast, and bored tunnel by a tunnel boring machine. I mainly referred to Connecticut Department of Transportation Highway Design Manual (2003) and Federal Highway Administration Technical Manual for Design and Construction of Road Tunnels (2009). I recommended the tunneling means and methods for the preliminary study.

6. Project Name: Amtrak B&P Tunnel Replacement Project

Project Location: Baltimore, Maryland

My Involvement Period: 2021.05-present (can not disclose the project timeline)

I am responsible for structural analysis and design of all structures owned by Amtrak, including cut-and-cover structures, mined underground structures, earth retaining structures. I lead the coordination with other disciplines within the tunnels. My main design reference including AREMA, AASHTO, Maryland Department of Transportation Maryland State Highway Administration Standards, ACI, AISC, and others. I have prepared calculation reports for submission, and I have reviewed structural models and calculations that have been prepared by junior level engineers. I have issued sketches to CAD team, and heavily involved in the drawing productions for submission. I am also involved in other design documents, including project design criteria and specifications.

WORK EXPERIENCE

WSP USA
New York (United States)
Senior Consultant, Structural Engineer
March 2023—December 2023

Verified by
William a Cao
william.cao@wsp.com

Experience Summary
Full-Time
Engineering: 9 months
Experience under licensed engineer: 9 months



TASKS

I have been working for WSP USA for 8 years, as a senior structural engineer. All my working experience with WSP are engineering related.

1. I have performed structural modeling and analysis by structural analysis software, including SAP 2000, STAAD Pro, ETABS, SAFE, Larsa 4D, and I did hand calculations by Excel, MathCAD, Structure Points.
2. I have designed cut and cover structures, mined tunnels, bored tunnels (cast-in-place circular tunnel, precast concrete segmental tunnel lining), facility buildings, existing structures (underground and elevated), and prepared calculation packages. I was in charge of structural analysis and design tasks, prepared calculation packages, and drawing production. I was also responsible for coordination with other disciplines within the tunnel.
3. I have practiced design codes include ACI, AISC, AASHTO, AREMA, NYCT Design Guidelines, NYC Building Codes, IBC, NDS, TMS 402.
4. I have issued sketches and coordinated with other disciplines for structural design and drawing productions. I have prepared submittals of drawings and calculation packages, and performed interdisciplinary review and quality control review.
5. I have done field inspection, I was responsible for making sure the construction complied with contract drawings, sketches, amplified drawings, approved shop drawings, requests for information, etc. My inspections included reinforcement installation, concrete placement, structural steel installation, formwork, etc., and coordinated with special inspectors on job.



REPRESENTATIVE PROJECTS

1. Project Name: Amtrak B&P Tunnel Replacement Project
Project Location: Baltimore, Maryland
My Involvement Period: 2021.05-present (can not disclose the project timeline)

I am responsible for structural analysis and design of all structures owned by Amtrak, including cut-and-cover structures, mined underground structures, earth retaining structures. I lead the coordination with other disciplines within the tunnels. My main design reference including AREMA, AASHTO, Maryland Department of Transportation Maryland State Highway Administration Standards, ACI, AISC, and others. I have prepared calculation reports for submission, and I have reviewed structural models and calculations that have been prepared by junior level engineers. I have issued sketches to CAD team, and heavily involved in the drawing productions for submission. I am also involved in other design documents, including project design criteria and specifications.

2. Project Name: Hudson River Tunnel Project
Project Location: NJ/NY
My Involvement Period: 2023.05-2023.10

I am responsible for structural analysis and design of all structures owned by Amtrak, including segmental lining of the bored tunnel and the cross passages for the Palisades Tunnel in New Jersey. I lead the coordination with other disciplines within the tunnels. My main design reference including AREMA, AASHTO, ACI, AISC, and others. I have prepared calculation reports for submission, and I have reviewed structural models and calculations that have been prepared by junior level engineers. I have issued sketches to CAD team, and heavily involved in the drawing productions for submission. I am also involved in other design documents, including project design criteria and specifications.

7. Approval of
November 16, 2023,
Board Meeting Minutes

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
Minutes of the Regular Board Meeting
Held at 1755 E Plumb Lane, Suite 258, Reno, NV 89102
on Thursday, November 16, 2023, at 10:15am

Board members participating were Chairman Angelo Spata, PE; Vice Chair Brent Wright, PE/SE; Thomas Matter, public member; Karen Purcell, PE; Michael Kidd, PLS; Robert Fyda, PE; Greg DeSart, PE; Jay Dixon, PE; and Matthew Gingerich, PLS. Also participating were Patty Mamola, Executive Director; Chris MacKenzie, Board Legal Counsel; Murray Blaney, Operations/Compliance; Jasmine Bailey, Licensing Specialist; and Derek Vogel, Communications.

1. Meeting conducted by Chair Angelo Spata, call to order and roll call of board members to determine presence of quorum—board members Brent Wright, Michael Kidd, Karen Purcell, Thomas Matter, Angelo Spata, Matt Gingerich, Robert Fyda, Greg DeSart, Jay Dixon.

Mr Spata called the meeting to order, and a quorum was determined.

2. Pledge of Allegiance.

3. Public comment.

Aaron Blaisdell, PLS

I'm a PLS board member from Washington State, and I'm coming before you in public comment. I was recently nominated by the Washington State Board for the position of NCEES Western Zone Vice President. I am encouraged by a lot of great ideas and really great people, many of whom are in this room, specifically on your board, or have been involved with NCEES for quite some time.

One of the things that I am actively seeking and once elected to the Western Zone Vice President position is to really build on that prior commitment of fellow board members of collaboration with neighboring states. It's the using and the building on the resources of NCEES, dealing with investigations, which is a very taxing issue sometimes, but really what other resources are out there and build those resources together. I'm going to be fostering and asking people, some of you are in this room, I'm going to be asking you to really help out and share your knowledge of what things work. Unfortunately, there are things that have not worked and so I want to encourage participation.

One of the things that I've done with being nominated by the Washington State Board is I've been attending Western Zone specifically for meetings and there are quite a number of similarities across all of our boards that are really the pain points that we need to recognize. Being heard is one of the things that we need within our zone, and we are one of the, if not the most active zones within the organization so I want to make that available to continue.

So again, I appreciate the time this morning. I'm really looking for your support and with that I can certainly be available for questions. I believe that the board has my contact information as well, so thank you.

Elizabeth Johnston, PE

I'm a registered electrical and fire protection engineer in the state of Alaska. I'm the current NCEES Assistant Zone Vice President, and I'm calling you today because I am running for a position with NCEES. I'm running for the position of NCEES President-elect, and I just wanted to reach out and ask for your vote.

I have always found the volunteer spirit of your state to be really inspiring. When I was reviewing your meeting minutes from prior years, I saw that you're a very active board, and I know that I've stolen some things from the Nevada board. I used your electronic submittal digital signature guide that you guys put together to work on some very similar things for the Alaska board. And I just love it when I can take lessons from one board and apply them to my own. And I am available to answer your questions but thank you for your time.

4. Introductions.

Board members and staff introduced themselves.

Mr Spata read the board's purpose and mission.

The purpose of the board as stated in Nevada Revised Statute 625.005 is to safeguard life, health and property and to promote the public welfare by providing for the licensure of qualified and competent professional engineers and professional land surveyors and our mission is founded on the board's purpose, the board's mission is to uphold the value of professional engineering and land surveying licensure by assessing minimum competency for initial entry into the profession and to insure on going standard of professionalism by facilitating compliance with laws regulations and code of practice and to provide understanding and progression in licensure by openly engaging with all stake holders.

5. Consideration of initial licensure applicant requests to waive certain requirements of Nevada Revised Statutes and Nevada Administrative Code Chapter 625.

Mr Gingerich recommended approval of the request to waive NRS 625.270 (2)(b) made by Aaron Martinez applying for land surveying licensure.

23-67 A motion was made by Mr Gingerich, seconded by Ms Purcell to approve the waiver request. The motion passed unanimously.

Ms Purcell recommended approval of the requests to waive NRS 625.183 (4)(b) and NRS 625.390 (2) (a) made by Alison Hall and John Bigda both applying for fire protection engineering licensure.

23-68 A motion was made by Ms Purcell, seconded by Mr Fyda to approve the waiver requests.
The motion passed unanimously.

Ms Purcell recommended approval of the requests to waive NRS 625.183 (1)(a) made by Jesus Ferrer applying for control systems engineering licensure.

23-69 A motion was made by Ms Purcell, seconded by Mr Matter to approve the waiver request.
The motion passed unanimously.

6. Board approval of non-appearance applications for initial licensure. Refer to Addendum A for list of applicants.

The Board reviewed twenty applications in the board packet for initial licensure and recommendations were made.

23-70 A motion was made by Mr Matter, seconded by Mr Gingerich to approve the applications for initial licensure contained in the board packet with recommendations noted. The motion passed unanimously.

The Board reviewed seven additional applications in the supplement to the board packet for initial licensure and recommendations were made.

23-71 A motion was made by Mr Wright, seconded by Ms Purcell to approve the applications for initial licensure contained in the board packet with recommendations noted. The motion passed unanimously.

7. Discussion and possible action on approval of September 21, 2023, board meeting minutes.

23-72 A motion was made by Mr Wright, seconded by Mr DeSart to approve the September 21, 2023, board meeting minutes. The motion passed unanimously.

8. Discussion and possible action on approval of October 12, 2023, interim board meeting minutes.

23-73 A motion was made by Mr Matter, seconded by Mr Dixon to approve the October 12, 2023, board meeting minutes. The motion passed unanimously. Ms Purcell abstained as she was

not present at the meeting.

9. Discussion and possible action on financial statements:

a. July 2023

b. August

c. September

Ms Mamola reviewed the July, August, and September 2023 financial statements as presented in the board packet and provided clarifications for the board.

23-74 A motion was made by Mr DeSart, seconded by Mr Gingerich to approve the July, August, and September 2023 financial statements. The motion passed unanimously.

10. Discussion and possible action on compliance reports by Compliance Officer.

Compliance officer report on complaints being investigated. Mr Blaney reported on the status of the nine (9) open compliance case files. There were no questions from board members.

b. Consideration of probation reports:

Dooley Riva, PE #18231	Buckley Blew, PLS #24520
Jason Caster, PLS #19338	Lynn Affleck, PE #7676
Lazell Preator, PE #14982	Douglas Fellenz, EI #OT8691
Robert Mercado, PLS #10352	Armando Monarrez, PE #19652
Timothy Prockish, PE #12931	Mark Johnson, PE #19830

11. Discussion on Board Counsel Report.

Mr MacKenzie reviewed the compliance cases he was reviewing and outlined a timeline on when the complaints would be presented for board consideration.

12. Discussion and possible action on administrative report by Executive Director.

a. Approved licensees report.

Ms Mamola reviewed the approved licensee report as presented in the board packet and answered questions from board members.

b. Action items related to 2021-2025 Strategic Plan.

Ms Mamola asked if there were any questions relating to the strategic plan. There were none.

c. Items related to National Council of Examiners for Engineering & Surveying (NCEES).

Ms Mamola said the dates and times for the upcoming NCEES Western Zone meeting have been finalized. The event (in Bozeman, MT) begins with a welcome reception on Thursday May 16, 2024, at 6PM and concludes early afternoon on Saturday May 18, 2024. After discussion, Ms Purcell, Mr Kidd, and Mr Matter were designated as the funded delegates from Nevada. Ms Mamola said the other board members should register directly through the notification email from NCEES. She added that staff can assist with registration and travel as needed.

13. Discussion and possible action on board committee reports.

a. Administrative Procedures Oversight Committee, Chair Brent Wright

Mr Wright reported the committee met on October 3, 2023, to review the first draft of the personnel policy manual. He said the committee provided input and Mr MacKenize and Ms Mamola are going to revise and present a second draft for APOC to consider at the next scheduled meeting.

Ms Mamola said the goal is to have a revision for the committee to consider in January 2024, and then forward to the board for ratification at the full board meeting that same month. (ACTON Item)

b. Legislative Committee report, Chair Greg DeSart

Mr DeSart said the committee met yesterday and considered two items. The first being a presentation deck compiled by Mr Fyda – and presented by Ms Mamola as he was unable to attend – which explored the issues involved in relating to licensure and emerging technologies. He said Mr Fyda is the lead on developing a position statement for the board regarding alternative licensure models. Mr DeSart said from the discussion during the presentation a couple of action issues emerged. The first being the consideration of an NRS/NAC amendment relating to the supervisory requirement that two of the four years requirement experience be under a PE in the same discipline – something that we see often as a waiver request that almost always is approved; and the second, looking into a possible hybrid model for licensure where the traditional disciplines (CE, ME, EE etc) remain as they are now – licensed by discipline - and a general PE category is added to address emerging categories like bio-medical and robotics engineering.

Mr DeSart said the second main agenda item for the meeting was the review of the draft Small Business Impact Statement following the SBI survey results. He said the draft statement was

discussed and the committee agreed with the findings as presented.

c. Professional Association Liaison Committee, Chair Matt Gingerich

Mr Gingerich reported that the committee had met this morning and an item of note, reported by UNLV, was the strength of enrollment in engineering programs; where they are seeing growth, particularly from Nevada residents.

d. Public Outreach Committee, Chair Karen Purcell

Ms Purcell said the committee had not met since the last board meeting.

e. PLS Standards of Practice Subcommittee of the Legislative Committee, Chair Matt Gingerich

Mr Gingerich said the sub-committee had not met since the last board meeting, but was scheduled to meet December 5, 2023, to consider the technical comments generated by the Small Business Impact Survey.

14. Discussion and possible action on independent financial audit report for fiscal year 2022-2023.

Ms Mamola said the item relates to the consideration of the independent audit of the past fiscal year by Casey Neilon the auditing CPAs retained by the board. She said Ollis Brown, the lead auditor, has joined the meeting and will review the report and answer any questions from board members.

Mr Brown gave an overview of the draft Financial Report presented in the meeting materials. He highlighted changes to governmental accounting standards that impacted the report and explained adjustments as to how deferred revenue is calculated and reported and noted an adjustment had been made to the prior period reporting. Mr Brown said the audit resulted in an unmodified opinion, which is the highest level of assurance that can be provided on a set of financial statements.

There were no questions from the board.

23-75 A motion was made by Ms Purcell, seconded by Mr Fyda to approve the financial audit report for fiscal year 2022-2023. The motion passed unanimously.

15. Consider survey results and Small Business Impact study related to proposed updates to Nevada Administrative Code chapter 625, also consider draft schedule for adopting regulations.

Ms Mamola said this item relates to the Small Business Impact survey and required Small Business

Impact Statement for the proposed regulation amendments. She said the survey results and draft statement were included in the board packet for review and consideration. Ms Mamola added that the Small Business Impact Statement requires board approval before it can be included with the Notice of Public Workshop.

Mr Spata asked if there any comments or question from board members.

Mr DeSart said something that was discussed at the Legislative Committee meeting, although there were not many respondents and comments in general relative to the number of licensees the survey was sent to, comments that were received centered around NAC 625.545 and changing the word “date” to “scheduled”. He said it appeared that some respondents interpreted “schedule” as requiring something very detailed like a full Gantt chart. Mr DeSart said the committee discussed and the intent, using an example, is something as simple as “the work will be completed one month after we get this piece of information”. He said something that simple is still a schedule and gives the client an indication of the timeframe.

Mr Wright said often licensees are sub-consultants and require the completion of tasks by others and can only work as fast as the client provides the needed work product or information.

Mr DeSart said the committee agreed that “schedule” was more applicable as sometimes a date is too specific. He added staff and board members attending will be prepared to give examples of the intent if questions or comments arise during the public workshops.

23-76 A motion was made by Ms Purcell, seconded by Mr Gingerich to approve the Small Business Impact Statement as presented. The motion passed unanimously.

Ms Mamola gave an overview of the schedule for the public process in adopting the regulation changes as outlined in the board packet. She said public comment for the workshops will be gathered and presented to LegComm and the PLS Sub-committee as needed to consider the need for any revisions. (ACTION Item)

16. Discussion on process and schedule for updates to Nevada Administrative Code chapter 625 related to Governor Lombardo Executive Orders 2023-003 and 2023-004.

Ms Mamola reviewed the status of the regulations relating to the governor’s executive orders. She said the draft language for all but one of the R-files had been received back from the LCB and staff have completed an initial review. Ms Mamola added that after all R-file has been received from the LCB and reviewed and approved by the board, an Intent to Adopt Regulations Hearing would be scheduled. (ACTION Item)

17. Board training on Nevada Open Meeting Law.

Mr MacKenzie presented a PowerPoint training for the board on Nevada Open Meeting Law.

18. Discussion and possible action on information provided by government liaison representative from McDonald Carano related to Nevada's legislative and regulatory matters and any associated board matters.

No report. Ms Fisher was excused from the meeting.

19. Discussion and possible action on status of Board and staff assignments.

Ms Mamola reviewed the status of board and staff assignments. There were no questions.

20. Discussion and possible action on meeting dates.

Mr Dixon said he had a conflict with the January 2024 board meeting date.

After a brief discussion on board member availability, Wednesday January 24, 2024, at 8:30am was decided as the new date and time. Ms Mamola said a calendar invite would be sent out as a reminder. (ACTION Item)

21. Discussion and identification of topics for future meetings including possible proposed amendments to the Nevada Professional Engineers and Land Surveyors Law, Nevada Revised Statutes and Nevada Administrative Code Chapter 625.

Ms Mamola suggested that the topic of NCEES Western Zone elections for Zone VP and President-elect, which comes from Western Zone, be added to the March 2024 board meeting agenda. She added the candidate information should be available by late February, and if the board wishes, the candidates can be invited to join the meeting to answer questions. (ACTION Item).

Mr Gingerich put forward that the with the NCEES decision on modules for the national PLS exam, an agenda item for the board or legislative committee be added to consider impacts on Nevada statutes and regulations.

Mr Spata suggested that the impacts first be explored by LegComm, and the item be added to a future committee agenda when details from NCEES are available. (ACTION Item)

Mr Wright added that board PLS members should be invited to attend the LegComm discussions. (ACTION Item)

22. Public comment.

There was no public comment in-person, via email, or virtually.

23. Adjournment.

Mr Spata thanked the board members for their participation and adjourned the meeting at 12:25 pm.

Respectfully,

Patty Mamola
Executive Director

DRAFT

Addendum A - November Initials

LNAME	FNAME	ABREV	COMMENTS
Carter	Nicole	CE	Board approved; 11/16/23
Caviola	Sean	CE	Board approved; 11/16/23
Jadhav	Amol Sudhakar	CE	Board approved; 11/16/23
Montejo	Peter	CE	Board approved; 11/16/23
Naegele	Christian	CE	Board approved; 11/16/23
Patrick	Ally	CE	Board approved; 11/16/23

LNAME	FNAME	ABREV	COMMENTS
Perry	Raphael	CE	Board approved; 11/16/23
Sams	Ryan	CE	Board approved; 11/16/23
Zimmerman	William	CE	Board approved; 11/16/23
Chen	Liang	CHE	Board approved; 11/16/23
Ferrer	Jesus	CSE	Board approved; 11/16/23;Waiver Request: NRS 625.183, item 1, part a.
Barreto-Ayala	Jose	EE	Board approved; 11/16/23
Sanchez	Frank	EE	Board approved; 11/16/23

LNAME	FNAME	ABREV	COMMENTS
Soto	Bryan	EE	Board approved; 11/16/23
Poudel Acharya	Saraswati	ENVE	Board approved; 11/16/23
Bigda	John	FPE	Waiver Request: NRS 625.183, item 4, part b and NRS 625.390, item 2, part a.
Hall	Alison	FPE	Board approved; 11/16/23; Waiver Request: NRS 625.183, item 4, part b and NRS 625.390, item 2, part a.
Gaddis	David	ME	Board approved; 11/16/23
Kist	Brian	ME	Board approved; 11/16/23
Martinez	Aaron	PLS	Waiver Request: NRS 625.270 item 2, part b.; subsection 1 of NRS 625.280.

8. Approval of
December 14, 2023,
Interim Board Meeting
Minutes

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
Minutes of the Interim Board Meeting
Held virtually, Thursday, December 14, 2023, at 9:15AM

Board members participating were Chairman Angelo Spata, PE; Thomas Matter, Public Member; Michael Kidd, PLS; Robert Fyda, PE; Matthew Gingerich, PLS; Greg DeSart, PE; Jay Dixon, PE; Brent Wright, PE/SE; and Karen Purcell, PE. Also joining were Patty Mamola, Executive Director; Chris MacKenzie, Board Counsel; Susan Fisher; Board Government Affairs Liaison; Murray Blaney, Operations/Compliance; and Jasmine Bailey, Licensing Specialist.

1. Meeting conducted by Chair Angelo Spata, call to order and roll call of board members to determine presence of quorum—board members Brent Wright, Michael Kidd, Thomas Matter, Karen Purcell, Matt Gingerich, Robert Fyda, Greg DeSart, Jay Dixon.

A quorum was determined.

2. Pledge of Allegiance.

3. Public Comment.

There was no public comment virtually or via email.

4. Consideration of initial licensure applicant requests to waive certain requirements of Nevada Revised Statutes and Nevada Administrative Code Chapter 625.

There were none to be considered.

5. Board approval of non-appearance applications for initial licensure. Refer to Addendum A for list of applicants.

The board reviewed twenty-five applications for initial licensure in the board packet and recommendations were made.

23-77 A motion was made by Mr Matter, seconded by Mr Fyda to approve the applications for initial licensure contained in the board packet with recommendations noted. The motion passed unanimously.

6. Consideration of board appointment of an interim executive director.

Mr Spata

To those that are not aware, this action is due to the very unfortunate news that our current executive

director, Patty Mamola, has issued her resignation effective today. This is a great loss for the board as she has served in this role since 2016, as many of you know. And prior to that, she served as a board member herself from 2006 to 2015. During this time, she was not only the vice chair, but she was also the chair. She also represented the board as the Western Region VP and subsequently the president of NCEES as the first female president. Certainly, highly respected in the industry and with this board, she has a wealth of knowledge and experience that has really brought us a lot, to not only this board, but the profession as a whole, and she'll definitely be greatly missed. So, unfortunately, with this resignation, she has offered to stay on to help with any transition for up to 90 days that the board so chooses. This will be to tackle current ongoing items while also assisting in the search for a replacement and bringing somebody up to speed as an interim executive director, which is our agenda item that we're going to talk about here in a moment. In addition, following those ninety days, it could be an option to consider having her as a contract employee if it works out with her schedule.

This notice will allow us time for consideration of what is on the agenda today for the Interim Executive Director and may ultimately define the transition period that we need. With that, we need to identify and consider an Interim Executive Director while we go through the process of finding a permanent replacement.

So as Board Chair, what I'd like to do, if there's no objection, is to get the conversation going. I'd like to put a motion on the floor to start the discussion and action appropriately. Considering today having this on the agenda to identify an interim executive director and allowing us as board members to confidently vote on the motion without any prior discussions with any other nominees or individuals, it's hard to know if they'll have interest as well as meeting any fundamental requirements. I recommend we do the following and I put forward the following motion for consideration.

The following motion was made by **Mr Spata**:

First, considering staff management is a big part of this role, I recommend we identify a board member to do an assessment with our current board staff. This assessment will really be to gain general input from our staff, understand the current inner workings, which include our staff capabilities and our structure. And really the important thing is to understand from their field of view the qualities they see in an interim as well as a permanent executive director and what they should have from their roles and positions. While also providing any internal recommendations they may have for themselves or any other peers that may want to fit that role. I would recommend Karen Purcell to conduct these interviews and then report out at a future interim meeting with her initial recommendations and findings, then we could discuss and possibly action an interim executive director at that time rather than this meeting. That's action one.

The second part of the motion. One thing that I'd like to recommend is we immediately work on delegating some of those executive director responsibilities to a board member to really cover in the

interim to identify that interim person for oversight and to assist as needed until such point we identify that person. This primarily might include staff management as well as any key signature authority. Currently as chair, I will put my name into the hat, but would happily consider any other board member that would like to take that action on and I'll repeat, I will happily consider any other person that would nominate themselves to do that. So, this is the motion at this time. And in the meantime, we will delegate the search for a new permanent candidate to APOC under Brent's committee chair leadership where they will develop the advertisement of this position and ultimately recommend to the board who will be interviewed and ultimately appointed by the board for that position. And with that, I will open it up for comment and discussion.

The motion was seconded by **Mr Gingerich**.

Ms Purcell said she was willing to conduct the staff assessment and to help with anything involved in the transition.

Mr Wright offered that he would be willing to assist with any tasks delegated by the board chair.

Mr DeSart, Mr Matter, Mr Fyda, Mr Kidd, Mr Dixon, and Mr Gingerich added they would be available to with anything assigned by Mr Spata.

23-78 A motion was made by Mr Spata (see above) was seconded by Mr Gingerich. The motion passed unanimously.

7. Public comment.

Mr Spata

I would like to start out with public comment, and I know we'll have some time to really get our thanks across, but I can't say enough to you, Patty, thank you for all your years of service in this position and your prior years of service. I know for myself as chair and board member, regular board member, you've been a big help for me in both my career as well as my duties on this and I look forward to working with you during this transition to get more knowledge but really you know it's going to be hard to see you go so thank you again for your time.

Mr DeSart

I'll echo what you said, Angelo. Patty, thank you for your service to the board and to the profession and wish you the best of luck.

Ms Fisher

I just want to say I've worked with a lot of boards, a lot of state regulatory boards, and I have never, ever worked with an executive director as efficient and competent as Patty. And I'm really going to miss you too, Patty.

Mr Matter

I think we all probably would prefer to thank, Patty, in person at some point in time, but what you've done for the board and the professionalism and the knowledge that you bring to it. I always equate everything to sports analogies, and I would not envy the person that's going to have to step into your shoes. It's like trying to replace a great coach and I don't think it's necessarily going to be possible, but I really want to appreciate all your time and effort and all the guidance you've given to me on the board and everything and all the knowledge and experience you bring with it. I just, I don't see how we're going to be able to truly replace that.

Mr Wright

If I could just echo what everyone else has said. Patty, you've been amazing and done a fantastic job. And you're going to be greatly missed. And I just want to thank you for all that you've done.

Mr Gingerich

Patty, I just have to commend you for, as you're a civil engineer, the light you've shed on the survey world has been a benefit to us, so I want to thank you for hearing the survey side of things and incorporating the changes you've made that have been a positive impact to our profession as surveyors, so thank you.

Ms Purcell

I'll just say ditto to what everyone has said. You have been such a huge influence on the profession and setting pathways. And yes, we will thank you in person. It's very emotional to let you go, as Angelo has stated previously. So, thank you so much for everything that you've done.

Mr Kidd

I will echo everything that everyone else is saying and as far as Patty's guidance and mentorship and, you know, I've been on the board since 2014 and it's hard to measure Patty's impact for me and this profession and how she has helped to shape and mold my thought process. So, thank you, Patty.

8. Adjournment

Mr Spata thanked the meeting attendees and adjourned the meeting at 9:40am.

Respectfully,

Patty Mamola
Executive Director

Addendum A - December Initials

LNAME	FNAME	ABREV	COMMENTS
Abbas	Faisal	CE	Board approved; 12/14/23
Abboud	Ali	CE	Board approved; 12/14/23
Giles	Tyler	CE	Board approved; 12/14/23
Hua	Nan	CE	Board approved; 12/14/23
Kelley	Michael	CE	Board approved; 12/14/23
Koloski Jr	Jeffrey	CE	Board approved; 12/14/23
Lipp	Gregory	CE	Board approved; 12/14/23
Matni	Jamal	CE	Board approved; 12/14/23
McInnis	Andrew	CE	Board approved; 12/14/23

LNAME	FNAME	ABREV	COMMENTS
Musarra	Taylor	CE	Board approved; 12/14/23
Noe	Patrick	CE	Board approved; 12/14/23
Qayyum	Muhammad Ali	CE	Board approved; 12/14/23
Salcedo	Christian	CE	Board approved; 12/14/23
Vela Morales	Edwin	CE	Board approved; 12/14/23
Wong	Jimmy	CE	Board approved; 12/14/23
Ford	Alexander	EE	Board approved; 12/14/23
Kebede	Huruy	EE	Board approved; 12/14/23
Villalba	Michael	EE	Board approved; 12/14/23
Welty	Peter	EE	Board approved; 12/14/23

LNAME	FNAME	ABREV	COMMENTS
Spencer	Katerina	FPE	Board approved; 12/14/23
Edwards	Ean	ME	Board approved; 12/14/23
Hand	Joshua	ME	Board approved; 12/14/23
Kanchi	Sagar	ME	Board approved; 12/14/23
Rowsell	Justin	PLS	Board approved; 12/14/23
Snow	Tanner	PLS	Board approved; 12/14/23

9. Financial Statements

9.a. October 2023

Nevada State Board of Professional Engineers and Land Surveyors

Profit & Loss Budget - YTD Budget

July - October, 2023

	TOTAL			
	ACTUAL	BUDGET	OVER BUDGET	% OF BUDGET
Income				
4000 REVENUE	292,333.96	186,075.00	106,258.96	157.11 %
Total Income	\$292,333.96	\$186,075.00	\$106,258.96	157.11 %
GROSS PROFIT	\$292,333.96	\$186,075.00	\$106,258.96	157.11 %
Expenses				
5100 PAYROLL EXPENSES	184,698.49	235,900.00	-51,201.51	78.30 %
5110 PAYROLL TAXES	12,227.65	20,449.96	-8,222.31	59.79 %
6001 OPERATING EXPENSES	137,208.56	210,006.70	-72,798.14	65.34 %
Total Expenses	\$334,134.70	\$466,356.66	\$ -132,221.96	71.65 %
NET OPERATING INCOME	\$ -41,800.74	\$ -280,281.66	\$238,480.92	14.91 %
NET INCOME	\$ -41,800.74	\$ -280,281.66	\$238,480.92	14.91 %

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss YTD Comparison

October 2023

	TOTAL	
	OCT 2023	JUL - OCT, 2023 (YTD)
Income		
4000 REVENUE		
4201 Application Fees		
4202 PE Comity Application	12,375.00	43,875.00
4203 PLS Comity Application	125.00	1,000.00
4204 PE Initial License Application	550.00	1,925.00
4205 PLS Initial License Application	75.00	75.00
4206 PE Reinstatement Application	2,000.00	6,400.00
4207 PLS Reinstatement Application	200.00	400.00
4208 EI Certification Application	750.00	2,950.00
Total 4201 Application Fees	16,075.00	56,625.00
4250 Renewals & Exam Fees		
4251 PE/PLS Renewals	83,250.00	129,500.00
4252 Renewal Late Fees	700.00	6,600.00
4253 PE License Fees	9,150.00	28,750.00
Total 4250 Renewals & Exam Fees	93,100.00	164,850.00
4300 Other Revenue		
4301 Replacement Certificate/Pocket	45.00	125.00
4303 Interest Income	7,661.60	29,577.46
4304 Discipline Pd to NV Gen Fund	7,106.50	7,606.50
4307 Firm Registration	13,800.00	33,550.00
Total 4300 Other Revenue	28,613.10	70,858.96
Total 4000 REVENUE	137,788.10	292,333.96
Total Income	\$137,788.10	\$292,333.96
GROSS PROFIT	\$137,788.10	\$292,333.96
Expenses		
5100 PAYROLL EXPENSES		
5102 Employee Health Insurance	4,665.92	19,626.54
5103 Employee IRA/SEP	9,155.55	9,155.55
5105 Payroll Service Fees	165.62	678.73
5107 Salaries	41,908.51	153,962.67
5108 Board Salaries		1,275.00
Total 5100 PAYROLL EXPENSES	55,895.60	184,698.49
5110 PAYROLL TAXES		
5111 FICA	2,598.35	9,545.72
5113 Medicare	607.69	2,232.48
5114 Modified Business Tax		129.47
5116 SUINV		13.56
5117 SUI	55.63	306.42
Total 5110 PAYROLL TAXES	3,261.67	12,227.65

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss YTD Comparison

October 2023

	TOTAL	
	OCT 2023	JUL - OCT, 2023 (YTD)
6001 OPERATING EXPENSES		
6006 Office Supplies	1,967.23	3,511.35
6007 Equipment/Furniture		
6010 Equipment Purchases		3,039.04
6011 Equipment Leasing	275.60	811.20
6012 Software		
6012.1 Deferred Exp-Software Upgrades		8,000.00
6012.5 Software	892.29	1,800.60
Total 6012 Software	892.29	9,800.60
6015 Website Hosting	3,315.00	8,040.00
Total 6007 Equipment/Furniture	4,482.89	21,690.84
6101 Insurance		
6102 Workers Comp		100.00
6103 General Liability		1,629.74
Total 6101 Insurance		1,729.74
6201 Postage		
6202 Postage		2,565.16
6202.5 E-Postage		1,300.00
6205 Postage Renewals	1,294.00	1,294.00
Total 6201 Postage	1,294.00	5,159.16
6301 Board Meetings		
6302 Travel - Out of State		124.00
6303 Travel - In State		8,076.93
6304 Board Meeting Expenses		408.09
Total 6301 Board Meetings		8,609.02
6501 Professional Services		
6502 Legal		
6503 Board Meetings		3,965.00
6504 Regulations/Legislation		
6504.5 Regulations/Legislation		97.50
Total 6504 Regulations/Legislation		97.50
6505 Discipline		942.50
Total 6502 Legal		5,005.00
6508 Accounting Fees	722.50	3,145.00
6509 Governemnt Liaison Services		
6509.1 Def Exp-Government Liaison		4,000.00
6509.5 Government Liaison	2,000.00	4,000.00

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss YTD Comparison

October 2023

	TOTAL	
	OCT 2023	JUL - OCT, 2023 (YTD)
Total 6509 Governemnt Liaison Services	2,000.00	8,000.00
6510 Database/Website Design		
6510.1 Deferred Exp-Website Update	750.00	952.66
6510.2 Deferred Exp-Database Update		11,840.00
6510.5 Database/Website Design	187.50	187.50
Total 6510 Database/Website Design	937.50	12,980.16
6511 Public Outreach	3,150.00	5,050.00
6514 Contract Labor		100.00
6514.1 Def Exp-Contract Labor	342.82	2,568.34
Total 6514 Contract Labor	342.82	2,668.34
6515 IT Support	2,360.40	6,540.60
Total 6501 Professional Services	9,513.22	43,389.10
6601 Program Services		
6604 NCEES		
6606 Registration		650.00
6607 Travel		8,846.20
Total 6604 NCEES		9,496.20
6615 Bank Fees	24.95	445.74
6616 Merchant Services Fees	4,043.62	8,432.81
6630 LAS Office Support		1,403.92
6640 Workshops		
6640.5 Workshops	257.96	257.96
Total 6640 Workshops	257.96	257.96
Total 6601 Program Services	4,326.53	20,036.63
6700 Other		
6702 Discipline Pd to NV Gen Fund		-3,950.00
6704 State Administrative Fees		
6705 Attorney General		157.04
Total 6704 State Administrative Fees		157.04
Total 6700 Other		-3,792.96
6801 Training & Conferences		
6802 Travel - Out of State		1,637.41
6804 Registration		2,419.00
Total 6801 Training & Conferences		4,056.41
6900 Other Expenses		
6901 Taxes and Licenses		315.52
Total 6900 Other Expenses		315.52

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss YTD Comparison

October 2023

	TOTAL	
	OCT 2023	JUL - OCT, 2023 (YTD)
Non State Owned Office Bldg.		
6002 Rent		
6002.1 Sub-Lease		-750.00
6002.2 Rent	7,462.64	29,850.56
Total 6002 Rent	7,462.64	29,100.56
6004 Utilities	162.74	504.91
6005 Telephone/Internet	582.00	2,898.28
Total Non State Owned Office Bldg.	8,207.38	32,503.75
Total 6001 OPERATING EXPENSES	29,791.25	137,208.56
Total Expenses	\$88,948.52	\$334,134.70
NET OPERATING INCOME	\$48,839.58	\$ -41,800.74
NET INCOME	\$48,839.58	\$ -41,800.74

Nevada Board of Professional Engineers Land Surveyors

Balance Sheet

As of October 31, 2023

	TOTAL
ASSETS	
Current Assets	
Bank Accounts	
1001 ASSETS	2,570,085.31
Total Bank Accounts	\$2,570,085.31
Other Current Assets	
1305 Prepaid Expense	16,378.74
1310 Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	\$21,383.74
Total Current Assets	\$2,591,469.05
TOTAL ASSETS	\$2,591,469.05
LIABILITIES AND EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 Accounts Payable	11,200.52
Total Accounts Payable	\$11,200.52
Other Current Liabilities	
2001 Payroll Liabilities	34,177.25
4100 Deferred Revenue	805,573.69
Total Other Current Liabilities	\$839,750.94
Total Current Liabilities	\$850,951.46
Total Liabilities	\$850,951.46
Equity	
3510 Website Phase 2	30,000.00
3520 Data System Upgrade	175,000.00
3530 Electronic/Digital Pathway	175,000.00
3900 Retained Earnings	1,402,318.33
Net Income	-41,800.74
Total Equity	\$1,740,517.59
TOTAL LIABILITIES AND EQUITY	\$2,591,469.05

Nevada Board of Professional Engineers Land Surveyors

Balance Sheet Detail

As of October 31, 2023

	TOTAL
ASSETS	
Current Assets	
Bank Accounts	
1001 ASSETS	0.00
1051 First Indep. Bank - Operating	202,937.69
1052 First Indep. Bank - Payroll	66,950.08
1053 First Indep. Bank - Petty Cash	2,527.94
1054 First Indep. Bank - MMA	665,774.78
1055 First Indep. Bank - 24mo CD	551,573.17
1056 First Indep. Bank - 18mo CD	275,010.92
1057 First Indep. Bank - 12mo CD	269,263.84
1058 First Indep. Bank - 24mo FlexCD	536,046.89
Total 1001 ASSETS	2,570,085.31
Total Bank Accounts	\$2,570,085.31
Other Current Assets	
1305 Prepaid Expense	16,378.74
1310 Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	\$21,383.74
Total Current Assets	\$2,591,469.05
TOTAL ASSETS	\$2,591,469.05
LIABILITIES AND EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 Accounts Payable	11,200.52
Total Accounts Payable	\$11,200.52
Other Current Liabilities	
2001 Payroll Liabilities	0.00
2002 Accrued Benefits	34,177.25
Total 2001 Payroll Liabilities	34,177.25
4100 Deferred Revenue	805,573.69
Total Other Current Liabilities	\$839,750.94
Total Current Liabilities	\$850,951.46
Total Liabilities	\$850,951.46
Equity	
3510 Website Phase 2	30,000.00
3520 Data System Upgrade	175,000.00
3530 Electronic/Digital Pathway	175,000.00
3900 Retained Earnings	1,402,318.33
Net Income	-41,800.74
Total Equity	\$1,740,517.59
TOTAL LIABILITIES AND EQUITY	\$2,591,469.05

9.b. November 2023

Nevada State Board of Professional Engineers and Land Surveyors

Profit & Loss Budget - YTD Budget

July - November, 2023

	TOTAL			
	ACTUAL	BUDGET	OVER BUDGET	% OF BUDGET
Income				
4000 REVENUE	420,827.67	335,575.00	85,252.67	125.40 %
Total Income	\$420,827.67	\$335,575.00	\$85,252.67	125.40 %
GROSS PROFIT	\$420,827.67	\$335,575.00	\$85,252.67	125.40 %
Expenses				
5100 PAYROLL EXPENSES	249,310.90	291,125.00	-41,814.10	85.64 %
5110 PAYROLL TAXES	16,838.43	25,562.45	-8,724.02	65.87 %
6001 OPERATING EXPENSES	201,592.27	253,276.71	-51,684.44	79.59 %
Total Expenses	\$467,741.60	\$569,964.16	\$ -102,222.56	82.07 %
NET OPERATING INCOME	\$ -46,913.93	\$ -234,389.16	\$187,475.23	20.02 %
NET INCOME	\$ -46,913.93	\$ -234,389.16	\$187,475.23	20.02 %

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss YTD Comparison

November 2023

	TOTAL	
	NOV 2023	JUL - NOV, 2023 (YTD)
Income		
4000 REVENUE		
4201 Application Fees		
4202 PE Comity Application	13,125.00	57,000.00
4203 PLS Comity Application	375.00	1,375.00
4204 PE Initial License Application	675.00	2,600.00
4205 PLS Initial License Application	50.00	125.00
4206 PE Reinstatement Application	2,000.00	8,400.00
4207 PLS Reinstatement Application	200.00	600.00
4208 EI Certification Application	700.00	3,650.00
Total 4201 Application Fees	17,125.00	73,750.00
4250 Renewals & Exam Fees		
4251 PE/PLS Renewals	85,400.00	214,900.00
4252 Renewal Late Fees	400.00	7,000.00
4253 PE License Fees	6,600.00	35,350.00
Total 4250 Renewals & Exam Fees	92,400.00	257,250.00
4300 Other Revenue		
4301 Replacement Certificate/Pocket	55.00	180.00
4303 Interest Income	7,763.71	37,341.17
4304 Discipline Pd to NV Gen Fund	500.00	8,106.50
4307 Firm Registration	10,650.00	44,200.00
Total 4300 Other Revenue	18,968.71	89,827.67
Total 4000 REVENUE	128,493.71	420,827.67
Total Income	\$128,493.71	\$420,827.67
GROSS PROFIT	\$128,493.71	\$420,827.67
Expenses		
5100 PAYROLL EXPENSES		
5102 Employee Health Insurance	4,294.43	23,920.97
5103 Employee IRA/SEP		9,155.55
5105 Payroll Service Fees	248.43	927.16
5107 Salaries	60,069.55	214,032.22
5108 Board Salaries		1,275.00
Total 5100 PAYROLL EXPENSES	64,612.41	249,310.90
5110 PAYROLL TAXES		
5111 FICA	3,700.86	13,246.58
5113 Medicare	870.99	3,103.47
5114 Modified Business Tax		129.47
5116 SUINV		13.56
5117 SUI	38.93	345.35
Total 5110 PAYROLL TAXES	4,610.78	16,838.43

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss YTD Comparison

November 2023

	TOTAL	
	NOV 2023	JUL - NOV, 2023 (YTD)
6001 OPERATING EXPENSES		
6006 Office Supplies	90.19	4,352.43
6007 Equipment/Furniture		
6010 Equipment Purchases		3,039.04
6011 Equipment Leasing	275.60	1,390.46
6012 Software		
6012.1 Deferred Exp-Software Upgrades		8,000.00
6012.5 Software	166.58	2,277.46
Total 6012 Software	166.58	10,277.46
6015 Website Hosting	1,740.00	9,780.00
Total 6007 Equipment/Furniture	2,182.18	24,486.96
6101 Insurance		
6102 Workers Comp		100.00
6103 General Liability		1,629.74
Total 6101 Insurance		1,729.74
6201 Postage		
6202 Postage		3,531.67
6202.5 E-Postage		1,300.00
6205 Postage Renewals		1,294.00
Total 6201 Postage		6,125.67
6301 Board Meetings		
6302 Travel - Out of State		124.00
6303 Travel - In State		8,806.83
6304 Board Meeting Expenses		408.09
Total 6301 Board Meetings		9,338.92
6501 Professional Services		
6502 Legal		
6503 Board Meetings	10,029.42	13,994.42
6504 Regulations/Legislation	617.50	617.50
6504.5 Regulations/Legislation		97.50
Total 6504 Regulations/Legislation	617.50	715.00
6505 Discipline	3,706.25	4,648.75
Total 6502 Legal	14,353.17	19,358.17
6508 Accounting Fees	17,307.50	20,452.50
6509 Governemnt Liaison Services		
6509.1 Def Exp-Government Liaison		4,000.00
6509.5 Government Liaison	2,000.00	6,000.00

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss YTD Comparison

November 2023

	TOTAL	
	NOV 2023	JUL - NOV, 2023 (YTD)
Total 6509 Governemnt Liaison Services	2,000.00	10,000.00
6510 Database/Website Design		
6510.1 Deferred Exp-Website Update	119.00	1,071.66
6510.2 Deferred Exp-Database Update	4,960.00	16,800.00
6510.5 Database/Website Design		187.50
Total 6510 Database/Website Design	5,079.00	18,059.16
6511 Public Outreach	600.00	5,650.00
6514 Contract Labor		100.00
6514.1 Def Exp-Contract Labor	202.32	2,770.63
6514.5 Contract Labor	348.44	443.98
Total 6514 Contract Labor	550.76	3,314.61
6515 IT Support		8,078.36
Total 6501 Professional Services	39,890.43	84,912.80
6601 Program Services		
6604 NCEES		
6606 Registration		650.00
6607 Travel		8,846.20
Total 6604 NCEES		9,496.20
6615 Bank Fees		445.74
6616 Merchant Services Fees	6,926.84	15,417.15
6630 LAS Office Support		1,403.92
6640 Workshops		
6640.5 Workshops		257.96
Total 6640 Workshops		257.96
Total 6601 Program Services	6,926.84	27,020.97
6700 Other		
6702 Discipline Pd to NV Gen Fund		-3,950.00
6704 State Administrative Fees		
6705 Attorney General		157.04
6709 Email - EITS		208.50
Total 6704 State Administrative Fees		365.54
Total 6700 Other		-3,584.46
6801 Training & Conferences		
6802 Travel - Out of State		1,637.41
6804 Registration		2,864.00
Total 6801 Training & Conferences		4,501.41
6900 Other Expenses		
6901 Taxes and Licenses		315.52
Total 6900 Other Expenses		315.52

Nevada State Board of Professional Engineers and Land Surveyors

Profit and Loss YTD Comparison

November 2023

	TOTAL	
	NOV 2023	JUL - NOV, 2023 (YTD)
Non State Owned Office Bldg.		
6002 Rent		
6002.1 Sub-Lease		-750.00
6002.2 Rent	7,462.64	37,313.20
Total 6002 Rent	7,462.64	36,563.20
6004 Utilities	107.11	612.02
6005 Telephone/Internet	1,920.74	5,217.09
Total Non State Owned Office Bldg.	9,490.49	42,392.31
Total 6001 OPERATING EXPENSES	58,580.13	201,592.27
Total Expenses	\$127,803.32	\$467,741.60
NET OPERATING INCOME	\$690.39	\$ -46,913.93
NET INCOME	\$690.39	\$ -46,913.93

Nevada Board of Professional Engineers Land Surveyors

Balance Sheet

As of November 30, 2023

	TOTAL
ASSETS	
Current Assets	
Bank Accounts	
1001 ASSETS	2,581,930.81
Total Bank Accounts	\$2,581,930.81
Other Current Assets	
1305 Prepaid Expense	16,214.65
1310 Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	\$21,219.65
Total Current Assets	\$2,603,150.46
TOTAL ASSETS	\$2,603,150.46
LIABILITIES AND EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 Accounts Payable	27,995.12
Total Accounts Payable	\$27,995.12
Other Current Liabilities	
2001 Payroll Liabilities	34,177.25
4100 Deferred Revenue	805,573.69
Total Other Current Liabilities	\$839,750.94
Total Current Liabilities	\$867,746.06
Total Liabilities	\$867,746.06
Equity	
3510 Website Phase 2	30,000.00
3520 Data System Upgrade	175,000.00
3530 Electronic/Digital Pathway	175,000.00
3900 Retained Earnings	1,402,318.33
Net Income	-46,913.93
Total Equity	\$1,735,404.40
TOTAL LIABILITIES AND EQUITY	\$2,603,150.46

Nevada Board of Professional Engineers Land Surveyors

Balance Sheet Detail

As of November 30, 2023

	TOTAL
ASSETS	
Current Assets	
Bank Accounts	
1001 ASSETS	0.00
1051 First Indep. Bank - Operating	270,650.17
1052 First Indep. Bank - Payroll	3,319.39
1053 First Indep. Bank - Petty Cash	2,527.94
1054 First Indep. Bank - MMA	666,869.21
1055 First Indep. Bank - 24mo CD	553,863.93
1056 First Indep. Bank - 18mo CD	276,153.08
1057 First Indep. Bank - 12mo CD	270,273.91
1058 First Indep. Bank - 24mo FlexCD	538,273.18
Total 1001 ASSETS	2,581,930.81
Total Bank Accounts	\$2,581,930.81
Other Current Assets	
1305 Prepaid Expense	16,214.65
1310 Prepaid Lease/Deposit	5,005.00
Total Other Current Assets	\$21,219.65
Total Current Assets	\$2,603,150.46
TOTAL ASSETS	\$2,603,150.46
LIABILITIES AND EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
2000 Accounts Payable	27,995.12
Total Accounts Payable	\$27,995.12
Other Current Liabilities	
2001 Payroll Liabilities	0.00
2002 Accrued Benefits	34,177.25
Total 2001 Payroll Liabilities	34,177.25
4100 Deferred Revenue	805,573.69
Total Other Current Liabilities	\$839,750.94
Total Current Liabilities	\$867,746.06
Total Liabilities	\$867,746.06
Equity	
3510 Website Phase 2	30,000.00
3520 Data System Upgrade	175,000.00
3530 Electronic/Digital Pathway	175,000.00
3900 Retained Earnings	1,402,318.33
Net Income	-46,913.93
Total Equity	\$1,735,404.40
TOTAL LIABILITIES AND EQUITY	\$2,603,150.46

9.c. December 2023

[Not available at time board packet was published.]

10. Compliance Officer Report

10.a. Compliance Report

10. a. Compliance Investigations

Currently there are seven (7) cases to report on:

1. 20220006 – Failure to act as faithful agent
Investigation complete
2. 20220007 – Gross negligence and misconduct
Investigation complete
3. 20220009 – Failure to act as faithful agent
Investigation complete
4. 20230002 – Failure to act as faithful agent
Investigation complete
5. 20230008 – Incompetency in engineering
Investigation complete
6. 20230016 – Incompetency in land surveying
Under investigation
7. 20230019 – Practicing on a suspended license
Investigation complete

1. 20220006 – Failure to act as faithful agent

Summary:

Allegations by a contractor against a civil engineer for failure to deliver services in a timely manner relating to fence and gate system for an existing subdivision in Las Vegas.

Status:

Case under board counsel review.

2. 20220007 – Gross negligence and misconduct

Summary:

Complaint filed by a public entity against a civil engineer alleging the stamping and signing of false and manipulated information, and the submittal of testing information for which the engineer was not in responsible charge.

Status:

Case under board counsel review.

3. 20220009 – Failure to act as faithful agent

Summary:

Complaint filed against a PE/PLS for failure to deliver services in a timely manner relating to residential new build in the Red Rock area north of Reno.

Status:

Case under board counsel review.

4. 20230002 – Failure to act as faithful agent

Summary:

Complaint filed against a PE for failure to deliver services in a timely manner relating to three separate civil projects in the greater Las Vegas area.

Status:

Case under board liaison review.

5. 20230008 – Incompetency in engineering

Summary:

Allegation of incompetency against a CE providing structural services to a contractor on an elementary school repair project in northern Nevada.

Status:

Case under board liaison review.

6. 20230016 – Incompetency in land surveying

Summary:

Relates to a PLS performing an ALTA survey. A trailing surveyor was unable to re-trace the information in the survey and a complaint was filed with the board.

Status:

Under investigation.

7. 20230019 – Practicing on a suspended license

Summary:

An engineer was subject to an order of the board suspending their license. Post the date of suspension it appears that the licensee has been practicing on the suspended license.

Status:

Formal hearing.

10.b. Probation Reports

10. b. Probation reports

Probation Summary:

Name	Case #	Status/Action	Date Ending
Dooley Riva	20190001	Good Standing	October 10, 2029
Lazell Preator	20190008 & 20200003	Non-compliant	February 1, 2024
Robert Mercado	20230005	Good Standing	June 1, 2025
Jason Caster	20210004	Good Standing	February 1, 2025
M Armando Monarrez	20210011	Good Standing	February 1, 2025
Mark Johnson	20220004	Good Standing	August 15, 2025
Buckley Blew	20230004	Good Standing	August 15, 2026
Lynn Affleck	Petition – Board D&O	Good Standing	December 1, 2023
Douglas Fellenz	Petition – Board D&O	Good Standing	January 1, 2024

Payment Summary:

Name	Case #	Paid	Remaining	Final Due Date
Dooley Riva	20190001	\$20,800.00	\$3,950.00	September 12, 2024
Lazell Preator	20190008 & 20200003	\$6,569.50	\$3,200.00	October 15, 2023
Jason Caster	20210004	\$5,627.50	\$1,500.00	July 29, 2024

Robert “Dooley” Riva, PE 018231

Case Number: 20190001

Violation of NRS 625.520, NRS 625.565, NAC 625.510, and NAC 625.610

Mr Riva allowed his license to lapse on December 31, 2009, and continued to practice professional engineering with an expired license until self-reporting to the Board on January 10, 2019.

Mr Riva admitted, during the investigation in this matter, that he stamped, signed, and put false expiration dates for his license on the plans that he had submitted to reviewing agencies, as well as to his clients.

Mr Riva has maintained his California Professional Engineering license throughout this period from December 31, 2009, to the present. Mr Riva's California license is currently in good standing. A third-party competency review of a sampling of the thirty-seven (37) identified Nevada projects, that Mr Riva stamped while unlicensed has been completed, and his work was found to be competent.

NRS 625.410 states that the Board may take disciplinary action against a licensee for practicing after the license of the professional engineer has expired or has been suspended or revoked. NRS 625.520 also states that it is unlawful for any professional engineer to practice in a discipline of professional engineering in which the Board has not qualified him and for any person to use an expired license. Accordingly, NRS 625.565 makes it unlawful for any person to impress any documents with the stamp of a professional engineer after that person's license has expired. In addition, NAC 625.610 requires that licensees include the date of expiration of his or her license on the stamp or seal. Moreover, under NAC 625.510, licensees must be honest and impartial, and serve their employers, clients, and the public with devotion. Mr Riva has violated the aforementioned provisions by continuing to practice professional engineering for nine (9) years after the expiration of his license and knowingly falsifying expiration dates when signing and stamping plans for submission to building departments for permits.

NRS 625.410(5) authorizes the State Board to take disciplinary action against a licensee for a violation of any provision of NRS Chapter 625 or NAC Chapter 625. Further, pursuant to NAC 625.640(3)(b)(2) this matter may be resolved without a formal hearing by Stipulated Agreement.

Mr Riva and the State Board hereby stipulate to the following terms for the above-referenced violation(s):

1. Mr Riva's license shall be reinstated and suspended for ten (10) years immediately following entry of this Agreement, but with the suspension stayed and probation imposed for the duration of that time period.
2. The stay of Mr Riva's license suspension may be lifted by the State Board upon notice and the opportunity for Mr Riva to be heard should Mr Riva fail to abide by the terms hereof.
3. Mr Riva's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:
 - a. Mr Riva shall pay all of the State Board's legal and investigative costs associated with this matter, in the total amount of Two Thousand Three Hundred Fifty and No/100 Dollars (\$2,350.00), which includes One Thousand Three Hundred Fifty and No/100 Dollars (\$1,350.00) in legal fees and One Thousand and No/100 Dollars (\$1,000.00) for the cost for a third-party competency review of a sampling of the thirty-seven (37) projects stamped by Mr Riva while practicing without a license. This payment is due to the State Board within thirty (30) days of the State Board's acceptance and execution of this First Revised Stipulated Agreement.
 - b. Mr Riva shall pay an administrative fine to the State Board in the amount of Fifteen Thousand and No/100 Dollars (\$15,000.00), plus Two Hundred and No/100 Dollars (\$200.00) for each of the thirty-seven (37) projects lawfully stamped by Mr Riva, for a total of Twenty-Two Thousand Four Hundred and No/100 Dollars (\$22,400.00). Two Thousand Six Hundred Fifty and No/100 Dollars (\$2,650.00) of this amount is due to the State Board within thirty (30) days of the Board's acceptance and execution of this First Revised Stipulated Agreement. The balance thereof shall be due in five (5) equal annual installments of Three Thousand Nine Hundred Fifty and No/100 Dollars (\$3,950.00). The first (1st) due on or before one year of the State Boards acceptance and execution of this First Revised Stipulated Agreement, and the remaining four payment due on or before each subsequent anniversary thereof, through the fifth (5th) anniversary of the State Boards acceptance and execution of this First Revised Stipulated Agreement.
 - c. Mr Riva shall undertake and assume all costs associated with reviewing and re-stamping the drawings associated with the aforementioned projects that are on file with the appropriate building departments and provide the Board with sufficient proof thereof.

d. Mr Riva registering in, paying for, and completing an advanced level ethics course with Texas Tech University Murdough Center for Engineering Professionalism, and providing proof of completion thereof to Board staff within one (1) year of the date of full execution of this First Revised Stipulated Agreement.

LAST PROBATION REPORTS DUE October 1, 2029

PROBATION REPORT

(MUST BE TYPED)

Print Form

PROBATIONER: Robert Dooley Riva PE/PLS #: 018231

EMPLOYER: Riva Engineering & Consulting

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: 2023-9-16 THROUGH 2023-11-15

CLIENT:

NAME: BRENT JOHNSON

ADDRESS: bjohnson@chaseinternational.com

CITY: STATE: ZIP CODE:

PROJECT:

NAME: JOHNSON RESIDENCE

LOCATION OF PROJECT: 190 DALL COURT

CITY: CARSON CITY STATE: NV ZIP CODE: 89448

SIZE: 5500 SF START DATE: 7.19.23 END DATE: NA

STATUS OF PROJECT: DESIGN DEVELOPMENT IS APPROX. 60% COMPLETE

FEE PAID BY CLIENT: \$8,400

SCOPE OF WORK:

DESIGN DEVELOPMENT

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

MEETINGS WITH TEAM TO REVIEW FRAMING LAYOUTS AND FEASIBILITY, PRELIMINARY ROOF FRAMING CALCULATIONS AND LATERAL ANALYSIS, FLOOR FRAMING AND FOUNDATION ANALYSIS

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

MY NV LICENSE IS NOT EXPIRED

SIGNATURE: Robert D. Riva DATE November 16, 2023

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Robert Dooley Riva PE/PLS #: 018231

EMPLOYER: Riva Engineering & Consulting

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: 2023-9-16 THROUGH 2023-11-15

CLIENT:

NAME: BENJAMIN FAGAN DESIGNS

ADDRESS: 589 TAHOE KEYS BLVD, E8

CITY: SOUTH LAKE TAHOE STATE: CA ZIP CODE: 96150

PROJECT:

NAME: TOWNSEND RESIDENCE

LOCATION OF PROJECT: 663 BONNIE COURT

CITY: KINGSBURY STATE: NV ZIP CODE: 89448

SIZE: 5300 SF START DATE: 5.17.22 END DATE: NA

STATUS OF PROJECT: EXCAVATION IS ALMOST COMPLETE

FEE PAID BY CLIENT: \$13,600 + \$900 + \$2100

SCOPE OF WORK:

CONSTRUCTION ADMINISTRATION/ADDITIONAL SERVICES

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

TELECONS WITH DESIGNER AND CONTRACTOR, PROVIDE FEASIBILITY FOR WINDOW CHANGES AND SWITCHING FROM MANUF'D TRUSSES TO STICK FRAMING FOR PORTION OF THE ROOF, ANALYSIS AND DRAFTING FOR REVISIONS, ISSUE REVISED CD'S.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

MY NV LICENSE IS NOT EXPIRED

SIGNATURE: Robert D. Riva

DATE November 16, 2023

Lazell Preator, PE 014982

Case Numbers: 20190008 and 20200003

Violations: NRS 625.410(2), NRS 625.540, NRS 625.560, NAC 625.510, NAC 625.530, and NAC 625.540

Previous 2018 Complaint and Stipulated Agreement

Before setting forth the facts for the two complaints at issue, the following summation of a previous Stipulated Agreement is relevant. A Stipulated Agreement was entered by and between the State Board and Mr Preator on November 8, 2018 ("2018 Stipulated Agreement"), regarding previous Complaint number 20180006. In the 2018 Stipulated Agreement, Mr Preator acknowledged violations of NRS Chapter 625 in which his conduct constituted gross negligence, incompetence, or misconduct in the practice of professional engineering and failure to exercise due care and oversight in submitting the plan set to the office of the Deputy Building and Safety Director for the City of Las Vegas.

The facts pertaining to the 2018 Stipulated Agreement involved the filing of a complaint alleging the submission of plans containing the forged signatures of two senior building officials in an attempt to obtain a building permit.

Specifically, on March 7, 2018, the office of the Deputy Building and Safety Director for the City of Las Vegas received a plan set. The plan set included an irregular and misspelled signature of the City Engineer, Allen Pavelka, with his name signed "Alan" as opposed to the proper spelling "Allen." The plan set further included a signature of a retired Director of Building and Safety, Chris Knight. Mr Preator asserted that he relied on a third party, Jorge Guzman, to acquire said signatures, and that said third party, unbeknownst to Mr Preator, obtained or affixed the forged signatures. Although Mr Preator denied forging the signatures at issue, he admitted that he is responsible for documents that he seals and signs and that he is responsible to use due care and oversight to manage originals and copies of all documents he has signed and sealed.

In the 2018 Stipulated Agreement, Mr Preator's Nevada license was placed on probation for twelve (12) months. As part of his probation, Mr Preator was required to pay certain fines, costs, and fees, and require that he write a Whitepaper on Responsible Charge. The probation under the 2018 Stipulated Agreement has since been completed.

Case No. 20190008 - "Forgery Case"

In regard Case No. 20190008, a complaint has been submitted against Mr Preator by the Executive Director for the State Board on behalf of a professional land surveyor, alleging fraudulent stamping and signing of legal descriptions.

Specifically, On December 18, 2017, Mr Preator submitted two legal descriptions for a project on Du Fort Avenue to the City of Henderson. The complainant land surveyor inadvertently discovered the two legal descriptions while reviewing projects on the City of Henderson website in August 2019. The two legal descriptions were produced for Preator Consulting by the land surveyor. However, Preator Consulting had not paid for the work, and thus, the land surveyor had not completed the work, as he had not signed or dated the two legal descriptions. The two legal descriptions were, hand signed, dated and submitted to the city on December 18, 2017.

In an effort to explain how the legal descriptions at issue were fraudulently signed, Mr Preator asserts that he relied on the same third-party blamed in the 2018 Stipulated Agreement, i.e., Jorge Guzman, to obtain the stamp and signature of the land surveyor before submitting the legal descriptions now at issue. Mr Preator again asserts that Jorge Guzman must have forged the surveyor's signature before submitting the legal descriptions to the City of Henderson. Although Mr Preator denied forging the signatures at issue, he admits that he is responsible for documents that he submits and that he is responsible to use due care and oversight to manage originals and copies of all said documents.

Mr Preator has not been able to provide any information or documentation regarding his working relationship with Mr Guzman, or any evidence that Mr Guzman exists.

NRS 625.410(2) provides authority for the State Board to administer discipline in Nevada for any gross negligence, incompetency, or misconduct in the practice of professional engineering as a professional engineer. NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any provision of NRS Chapter 625. A licensee violates NRS 625.540 by unlawfully practicing land surveying. Specifically, it is unlawful to present or attempt to use, as his or her own, the license or stamp of another person and to impersonate any other licensee of the same or a different name. Additionally, it is a violation of NRS 625.560 to sign a description unless the person holds an unsuspended and unrevoked license as a professional land surveyor.

NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any regulation adopted by the Board. A licensee violates NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of

ethical conduct regarding honesty. It is a violation of NAC 625.530 for a licensee to fail to act in professional matters as a faithful agent. A licensee violates NAC 625.540(1) by failing to take care that credit for engineering or land surveying work is given to those to whom credit is properly due and violates NAC 625.540(4) by failing to not maliciously injure the professional reputation, business prospects or practice of another engineer or land surveyor.

Based on the foregoing, Mr Preator stipulates that he violated NRS 625.410 (2), in that his conduct constituted gross negligence, incompetence, or misconduct in the practice of professional engineering. Mr Preator stipulates that he violated NRS 625.540 by unlawfully practicing land surveying by presenting the license or stamp of another person and by impersonating another licensee. Likewise, Mr Preator stipulates that he violated NRS 625.560 by signing a description without a license as a professional land surveyor.

Further, Mr Preator stipulates that he violated NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct regarding honesty. In addition, Mr Preator stipulates that he violated NAC 625.530 by failing to act in professional matters as a faithful agent. Finally, Mr Preator stipulates that he violated NAC 625.540 by failing to take care that credit for land surveying work was given to those to whom credit was properly due and by failing to not maliciously injure the professional reputation, business prospects or practice of another engineer or land surveyor.

Case No. 20200003 - "Faithful Agent Case"

In regard Case No. 20200003, a complaint has been submitted against Mr Preator alleging misconduct and failure to meet terms of a contract.

Specifically, on February 2, 2018, the complainant contracted with Mr Preator to provide civil engineering for an auto body repair shop construction project, and paid Mr Preator a \$7,100 retainer. Per the contract, Mr Preator was to begin working on the project within two days of receiving the retainer. Between February 2018 and February 2020, no work product was provided to the client nor to the professionals and contractors working on the client's behalf. There were various interactions and requests for updates on the status of the project. Mr Preator asserts that, during the project, he was unable to speak with the architect on the project, from whom Mr Preator asserts that he received differing site plans. Nevertheless, Mr Preator informed the client that various items were under review by planning authorities, even though they were never actually submitted.

NRS 625.410(2) provides authority for the State Board to administer discipline in Nevada for any gross negligence, incompetency, or misconduct in the practice of professional engineering as a professional engineer. NRS 625.410(5) provides authority for the State Board

to administer discipline in Nevada for a violation of any regulation adopted by the Board. A licensee violates NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct regarding honesty. It is a violation of NAC 625.530 when a licensee fails to act in professional matters as a faithful agent.

Based on the foregoing, Mr Preator stipulates that he violated NRS 625.410(2), in that his conduct constituted gross negligence, incompetence, or misconduct in the practice of professional

engineering. Further, Mr Preator stipulates that he violated NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct regarding honesty. Finally, Mr Preator stipulates that he violated NAC 625.530 by failing to act in a timely and professional matters as a faithful agent.

Pursuant to NAC 625.640, a disciplinary matter may be resolved without a formal hearing by a Stipulated Agreement. To that end, to resolve Complaint Numbers 2019008 and 20200003, Mr Preator and the State Board resolve this matter on the following basis:

(1) Mr Preator's Nevada license shall be suspended for thirty-six (36) months following entry of this Agreement, pursuant to NRS 625.410 (2) and NAC 625.530, but with the suspension stayed and probation imposed for the duration of that time period.

(2) The stay of Mr Preator's suspension may be lifted by the State Board upon notice and the opportunity to be heard should Mr Preator fail to abide by the terms hereof.

(3) Mr Preator's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:

(a) Mr Preator shall pay a fine of Five Thousand and Noll 00 Dollars (\$5,000.00) for the Forgery Case and a fine of Two Thousand and No/1 00 Dollars (\$2,000.00) for the Faithful Agent Case, for a total fine of Seven Thousand and No/100 Dollars (\$7,000.00), within six (6) months of acceptance and execution of this Agreement by the State Board.

(b) Mr Preator shall pay the professional land surveyor in full under his contract therewith for work on the Du Fort project.

(c) Mr Preator shall pay for cost of hiring a Nevada licensed professional land surveyor to review, re-stamp and sign the Du Fort legal descriptions.

(d) Mr Preator shall immediately notify client and the relevant public entity via letter, with copy to the Board, of the necessity of the Du Fort legal descriptions to be re- submitted with lawful stamping and signature.

(e) Mr Preator shall reimburse in full the deposited amount the complainant paid for the Autobody Repair Shop project.

(f) Mr Preator shall pay the State Board Two Thousand Seven Hundred Sixty-Nine and 50/100 Dollars (\$2,769.50) as reimbursement of administrative expenses in this matter.

(g) Mr Preator registering in, paying for and completing an entry level ethics course with Texas Tech University Murdough Center for Engineering Professionalism, and providing proof of completion thereof to Board staff.

(h) Mr Preator shall provide to the State Board staff, within thirty (30) days of execution of this agreement by the State Board, a list of projects that were submitted for governmental review in 2017 and 2018, and provide project names, clients, and to which agencies submissions were made. These submissions will be reviewed by State Board staff to determine and identify any other possible statutory and/or regulatory violations.

(i) Mr Preator shall submit detailed bi-monthly probation reports to the Executive Director of the Nevada Board, which shall report any work completed in Nevada during the previous two (2) month period. A report shall be filed even if no work is performed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Each report shall include client contact information and a copy of the contract executed for any work in Nevada, including the scope of work detail.

(j) Mr Preator shall provide proof of the completion of thirty (30) professional development hours that are required on a biennial basis for license renewal, pursuant to NAC 625.430 and NAC 625.480.

LAST PROBATION REPORTS DUE February 1, 2024

Lazell Preator, PE 014982

Case Numbers: 20190008 and 20200003

Violations: NRS 625.410(2), NRS 625.540, NRS 625.560, NAC 625.510, NAC 625.530, and NAC 625.540

As of January 8, 2024, the following probation report has not been received:

- Nevada work performed Nov 14, 2023 – Jan 31, 2023. (reports due April 1, 2023)

Robert Mercado, PLS 010352

Case Number: 20210001 and 20230005

Violation of NRS 625.410(5), NRS 625.340, NAC 625.425, NAC 625.545, and NRS 625.410 (8)

Case No. 20210001 - "Faithful Agent Case"

On September 10, 2020, Sundance Surveying, Inc was hired to provide surveying and mapping services for a vacant property located in Las Vegas. As part of the contract, Mr Mercado was to file a Record of Survey Map with the Clark County Recorder's Office. Although the contract did not contain an anticipated date of completion, Mr Mercado informed his client that the work would only take a few weeks. Mr Mercado completed the survey on October 11, 2020, and emailed the survey map to his client on October 12, 2020. The survey map was not recorded at that time. On October 16, 2020, Mr Mercado was paid in full for his work.

Thereafter, the client made numerous attempts to contact Mr Mercado regarding the status of the recordation of the survey map, but he was unresponsive. As a result of Mr Mercado's unresponsiveness, coupled with his failure to have the survey map recorded, a complaint was filed on January 12, 2021. When contacted by the State Board, the complainant stated that she filed the complaint in an effort to prompt Mr Mercado to record the survey map and her only objective in filing the complaint was to ensure the survey map was recorded.

On January 14, 2021, the State Board staff left a voicemail for Mr Mercado regarding the complaint. On January 19, 2021, Mr Mercado responded to staff's voicemail and informed the State Board that, although the survey map had not yet been recorded, he intended to file it with the Clark County Recorder's Office on January 22, 2021. Mr Mercado did not file the survey map with the Clark County Recorder's Office on January 22, 2021, as promised. On two more occasions (January 26, 2021, and February 1, 2021), Mr Mercado assured the State Board staff that the survey map would be recorded, however, in each instance, Mr Mercado failed to make good on his promises. During this time, Mr Mercado provided a number of explanations for the delay in filing the survey map, which have not proven to be credible. As of February 5, 2021, the survey map was still not recorded.

On February 5, 2021, the State Board staff requested that Mr Mercado submit a formal response to the Complaint no later than March 8, 2021. The State Board staff followed up with Mr Mercado on multiple occasions in that regard. On March 8, 2021, Mr Mercado informed the State Board staff that he would be submitting his formal response to the complaint by the end of the day, but he did not.

On March 8, 2021, nearly 150 days after the survey was completed, the survey map was recorded with the Clark County Recorder's Office. The survey was stamped, signed, and dated by Mr Mercado on March 7, 2021.

On March 9, 2021, Mr Mercado submitted his formal response to the complaint. The State Board staff still determined that Mr Mercado's actions were in violation of various provisions of NRS Chapter 625 and NAC Chapter 625

It is a violation of NAC 625.425 for a land surveying firm to engage or offer to engage in the practice of professional engineering without first registering with the State Board and paying the annual fee of Fifty and No/100 Dollars (\$50.00).¹ It is a violation of NAC 625.545 to fail to provide a written contract to each client which sets forth the scope of work, costs, and anticipated date of completion of the work.² It is a violation of NRS 625.340 to fail to file a survey map with the county recorder in the county in which the survey was made a record of survey relating to land boundaries and property lines within ninety (90) days of the creation of such survey.³ It is a violation of NAC 625.530 for a licensee to fail to act in professional matters as a faithful agent.

Based on the foregoing, Mr Mercado stipulates that he violated NAC 625.425 by failing to register Sundance Surveying, Inc. with the State Board for the past ten (10) years. Further, Mr Mercado stipulates that he violated NAC 625.545 by failing to include the anticipated date of completion in his written contract with his client. Also, Mr Mercado stipulates that he violated NRS 625.340 by failing to file the survey map with the Clark County Recorder within ninety (90) days of the creation of such survey map. Finally, Mr Mercado stipulates that he violated NAC 625.530 by failing to act in professional matters as a faithful agent of his client in connection with his performance of the services therefor.

Pursuant to NAC 625.640, a disciplinary matter may be resolved without a formal hearing by a Stipulated Agreement. To that end, to resolve the complaint, Mr Mercado and the State Board resolve this matter on the following basis:

(1) Mr Mercado shall pay an administrative fine of \$1,500.00 for his violations of NAC 625.545, NRS 625.340 and NAC 625.530 within 90 days of the board's approval of the stipulated agreement.

(2) Mr Mercado shall reimburse the State Board \$2,271.00 for administrative expenses in this matter.

(3) Mr Mercado shall prepare and submit a whitepaper within 90 days of the board's approval of the stipulated agreement on the following topics:

- a) Elements necessary for a valid written contract for providing professional land surveying

services in the State of Nevada (NAC 625.545).

- b) Applicable deadlines and requirements for the timely recordation of records of surveys (NRS 625.340).

(4) Mr Mercado's Nevada license shall be suspended for twenty (24) months following entry of this agreement, but with the suspension stayed and probation imposed for the duration of that time period.

Case No. 20230005 - "Failure to Comply with Stipulated Agreement Case"

The board initiated a complaint against Mr Mercado for failing to comply with the stipulated agreement for the above referenced complaint executed on July 14, 2021. The terms of the settlement required filing bi-monthly probation reports for work performed in Nevada, submitting a white-paper, reimbursement of board legal fees, and payment of an administrative fine.

Mr Mercado failed to meet the milestone dates for submissions required by the agreement. Board staff offered extended milestone dates and a payment plan for the fees and fine, which were acceptable to by Mr Mercado. Mr Mercado continued to not meet the terms of the stipulated agreement despite the accommodations made for extending the milestones and the payment plan.

The board notified Mr Mercado, via written notice, to appear at a hearing on January 20, 2022, to provide Mr Mercado the opportunity to explain his continued failure to meet the terms of the stipulated agreement. Mr Mercado acknowledged receiving the notice to appear but failed to appear or participate virtually. Based on the presentation of facts at the hearing, and a non-showing of Mr Mercado, the board entered a Decision and Order, dated February 8, 2022, lifting the stay of suspension on Mr Mercado's license.

Due to Mr Mercado's continued failure to satisfy the terms of the July 14, 2021, Stipulated Agreement, even after the February 8, 2022, Decision and Order by the board to lift the stay on his license suspension, the board filed a second complaint which was heard on May 11, 2023, after due notice was provided to Mr Mercado.

At the May 11, 2023, hearing, Mr Mercado admitted and acknowledged that he had continually failed to abide by the terms of the stipulated agreement by failing to make timely payments of fees and fines, not submitting the white-paper as specified, and not meeting submittal dates for bi-monthly probation reports, and that he also no-showed to the January 20, 2022, hearing.

Mr Mercado paid the over-due fees and fines, submitted the delinquent whitepaper, and provided all required bi-monthly probation reports on May 9, 2023, two days prior to the May 11, 2023, hearing.

Upon hearing the matter and deliberation, the board ordered the following:

- (1) Mr Mercado's Nevada Professional Land Surveying license was suspended through July 24, 2025, but the suspension is stayed, and probation imposed for the duration of the stayed suspension.
- (2) Mr Mercado is to submit detailed bi-monthly probation reports to board staff for any Nevada work complete during the previous two-month period.
- (3) The stay of Mr Mercado's license suspension may be lifted by the board, upon due notice and the opportunity to be heard, should Mr Mercado fail to abide by the terms above.

LAST PROBATION REPORTS DUE June 1, 2025

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: ROBERT MERCADO PE/PLS #: 10352

EMPLOYER: SUNDANCE SURVEYING INC

PROBATION REPORT SUMMITTED FOR THE PERIOD OF: 9/12/2023 THROUGH: 11/11/2023

CLIENT:

NAME: KEITH KOLB

ADDRESS: 10171 W. AZURE DRIVE

CITY: LAS VEGAS STATE: NV. ZIP CODE: 89149

PROJECT:

NAME: KOLB RESIDENCE

LOCATION OF PROJECT: 10171 W. AZURE DRIVE

CITY: LAS VEGAS STATE: NV ZIP CODE: 89149

SIZE: 2 ACRES START DATE: Oct 7, 2023 END DATE: Dec 30, 2023

STATUS OF PROJECT: ONGOING

FEE PAID BY CLIENT: \$ 1,800

SCOPE OF WORK:

Boundary Verification, Construction Staking and Mapping

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

Boundary Verification, Construction Staking and Mapping

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

Client Education, site specific. Creative Scheduling

SIGNATURE: 

DATE: 11/29/23

Jason Caster, PLS 019338

Case Number: 20210004

Violation of NRS 625.410(2), NRS 625.565(2) and NAC 625.545

On or about February 25, 2021, the State Board received a complaint against Mr Caster. The complaint alleged incompetence and failure to provide a written contract. In July 2019, Mr Caster was hired to perform a boundary survey on a property and requested, through email, that Mr Caster locate property corners, stake them, and create an exhibit. Mr Caster completed the boundary survey in August 2019. In September 2019, the client requested Mr Caster to perform a topographic map and encumbrance survey. The survey was completed in October 2019. In June 2020, the project had been through the design and review process and subsequently permitted.

During construction, it was discovered that Mr Caster's survey was "busted" horizontally by approximately 6 feet and vertically by 7 inches. In June 2020, Mr Caster was made aware of the error. Subsequently, the client, through his company, filed a court action for damages against Mr Caster. In February 2021, Mr Caster filed for bankruptcy.

Mr Caster planned to use the boundary survey as the basis and control for the topographic survey, but Mr Caster did not perform the topographic map himself. Rather, Mr Caster had an employee of his company that is not a Professional Land Surveyor do the field work and create the map. Mr Caster failed to notice the errors in the topographic survey, and Mr Caster's failure to maintain responsible charge of the work performed resulted in the errant map being released to the client.

No formal contract was executed between Mr Caster and the client. Mr Wagner and Mr Caster exchanged emails for surveying services, including the scope of the project, cost, and time frame. Mr Caster indicated to client that a contract for the work would be forthcoming, but no contract was ever presented to the client. Additionally, Mr Caster did not disclose to the client that he did not have professional liability insurance until after the damage was done.

Based on the foregoing, Mr Caster stipulates that he violated NRS 625.410(2) and NRS 625.565 (2), as Mr Caster is grossly negligent in fulfilling his obligation as demonstrated by not being in responsible charge of his employee's work. Mr Caster further stipulates that he violated NAC 625.545 by failing to provide an appropriate written contract to a client prior to completion of work he performed.

Pursuant to NAC 625.640, a disciplinary matter may be resolved without a formal hearing by a Stipulated Agreement. To that end, to resolve the complaint, Mr Caster and the State Board resolve this matter on the following basis:

1. Mr Caster's Nevada license shall be suspended for three (3) years following entry of this Agreement, pursuant to NRS 625.410 (2) and NAC 625.530, but with the suspension stayed and probation imposed for the duration of that time period.
2. Mr Caster shall submit detailed bi-monthly probation reports to the Executive Director of the State Board, which shall report any work completed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Further, when stamping any work in Nevada, Mr Caster shall have his work reviewed by another Nevada licensed surveyor, and the cost therefor shall be paid by Mr Caster. When submitting his bi-monthly probation reports to the Executive Director, said reports shall include an attestation of review from the Nevada licensed surveyor for any work listed in the probation report that required a stamp by Mr Caster. A probation report shall be filed even if no work was performed in Nevada during the previous two (2) month period.
3. Mr Caster's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:
 - (a) Mr Caster shall pay a fine of Five Thousand and No/100 Dollars (\$5,000.00), payable in ten (10) quarterly payments of Five Hundred and No/1 00 Dollars (\$500.00) apiece, the first due three (3) months from the date of acceptance and execution of this Agreement by the State Board, and the final due thirty (30) months from the date of acceptance and execution of this Agreement by the State Board.
 - (b) Mr Caster shall pay the State Board Two Thousand One Hundred Twenty-Seven and 50/100 Dollars (\$2,127.50) as reimbursement of legal and administrative expenses expanded by the State Board in this matter, within six (6) months of acceptance and execution of this Agreement by the State Board.
 - (c) Mr Caster shall provide to the State Board staff, within thirty (30) days of execution of this agreement by the State Board, an attestation that he has reviewed the current statutes under NRS Chapter 625 and regulations under NAC Chapter 625.
 - (d) Mr Caster shall prepare a White Paper and submit it to the Executive Director of the State Board within sixty (60) days of the State Board's approval of this Stipulated Agreement, for

State Board review and approval, on the meaning of being in responsible charge of land surveying, as it is defined under Nevada law.

LAST PROBATION REPORTS DUE February 1, 2025

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Jason E. Caster PE/PLS #: 19338

EMPLOYER: Multnomah County

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Oct 1, 2023 THROUGH: Nov 30, 2023

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I did not perform any work in the State of Nevada during this time period.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

SIGNATURE: Jason E. Caster

Digitally signed by Jason E. Caster
Date: 2023.11.30 10:02:53 -08'00'

DATE: December 1, 2023

M Armando Monarrez, PE 019652

Case Number: 20210011

Violation of NAC 625.530(1) and NAC 625.545

In 2017, Mr Monarrez's current client was contracted with the then President of CVL, to provide civil engineering services for a project in Henderson, Nevada. This project was a master improvement plan that included services such as hydraulic and hydrologic calculations, precise grading and wall plan, sewer plans, and technical drainage study. The contract for this project provided, "[i]f the site plan should change after CVL has commenced work, any revision required will be considered extra to the contract, subject to renegotiation of our fees."

In 2018, when the engineering work was well underway, the President of CVL passed away. CVL was then purchased by Mr Monarrez.

On or about February 12, 2019, Mr. Monarrez sent an email to the client stating that part of the original design for the Hills project would no longer work and that he (Mr Monarrez) had revised the design plan.

On or about February 13, 2019, Mr Monarrez sent an email to the client, informing them that his designs could save a significant amount of money. In addition, this email stated, among other things, that "Typically Value Engineering is rewarded at 50/50 between owner and engineer of all cost savings."

On or about May 17, 2019, Mr Monarrez sent a letter to the client titled, "The Hills Value Engineering Agreement" (hereinafter "The Change Order"). The Change Order included a term that stated, "CVL will be compensated with 30% of all construction costs savings from Cut, Blasting, Fill, Over-excavation, Import, Export, and Rock wall construction." The Change Order also included a term that stated, "Growth Construction shall make payments of \$50,000 / month until the full compensation (30% of savings) has been paid, or prior to the recordation of the Final Map." The Change Order stated that compensation would be based on the differences between a contractor's bid price on the original design and the revised design.

On or about May 18, 2019, the client sent Mr. Monarrez an email that rejected Mr. Monarrez's proposed Change Order, stating, "we are NOT in agreement regarding the attached change order."

In the following months, despite the client's rejection, CVL sent invoices pursuant to the requested but rejected Change Order.

Violations and Disciplinary Actions

Pursuant to NAC 625.545, it is a violation for a licensee to perform work for a client before the licensee enters into a written contract with the client. Here, no written contract existed between Mr Monarrez and the client with regard to Mr Monarrez receiving a certain percentage of the costs saved, and no written contract existed for CVL to invoice the client \$50,000 per month. Even if Mr Monarrez believed a verbal agreement existed between him and the client, NAC 625.545 is clear that a written contract must exist before a licensee performs work for a client. Thus, Mr Monarrez's actions were in violation of NAC 625.545, as he performed work without a written contract and sent invoices pursuant to his proposed Change Order that was not accepted by the client.

Further, pursuant to NAC 625.530, it is a violation for a professional engineer to fail to act as a faithful agent or trustee for each client in the professional engineer's relations with his or her clients. As noted previously, the client had rejected Mr Monarrez's proposal for the Change Order, but Mr Monarrez continued to submit invoices pursuant to the Change Order over several months. Such behavior is not acting as a faithful agent for a client in the professional engineer's relationship. Accordingly, Mr Monarrez's actions violated NAC 625.530.

Based on the foregoing, Mr Monarrez stipulates that he violated NAC 625.545 and NAC 625.530(1).

Pursuant to NAC 625.640, a disciplinary matter may be resolved without a formal hearing by a Stipulated Agreement. To that end, to resolve the complaint, Mr Monarrez and the State Board resolve this matter on the following basis:

1. Mr Monarrez's Nevada license shall be suspended for twenty-four (24) months following entry of this Agreement, but with the suspension stayed and probation imposed for the duration of that time period. The stay of Mr Monarrez's suspension may be lifted by the State Board, upon notice and the opportunity to be heard, should Mr Monarrez fail to abide by the terms hereof. Mr Monarrez's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:

- (a) Mr Monarrez shall submit detailed bi-monthly probation reports to the Executive Director of the State Board, which shall report any work completed in Nevada during the previous two (2) month period. A report shall be filed even if no work is performed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Each report shall include client contact information and a copy of the contract executed for any work in Nevada, including the scope of work detail.

(b) Mr Monarrez shall pay an administrative fine of Two Thousand and No/100 Dollars (\$2,000.00) within six (6) months of acceptance and execution of this Agreement by the State Board.

(c) Mr Monarrez shall pay the State Board Three Thousand Sixteen and No/100 Dollars (\$3,016.00) as reimbursement of legal expenses expended by the State Board in this matter, within six (6) months of acceptance and execution of this Agreement by the State Board.

(d) Mr Monarrez shall, within one (1) year of the effective date of this Stipulated Agreement, successfully complete an intermediate level ethics course with Texas Tech University, Murdough Center for Engineering Professionalism, and submit proof of completion to the Board within sixty (60) days of completion of the course.

(e) Within thirty (30) days of license renewal, Mr Monarrez shall provide proof of completion of thirty (30) professional development hours that are required on a biennial basis for license renewal, pursuant to NAC 625.430, NAC 625.470 and NAC 625.480.

LAST PROBATION REPORTS DUE February 1, 2025

PROBATION REPORT

(MUST BE TYPED)

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUMMITTED FOR THE PERIOD OF: THROUGH:

CLIENT

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

Perform Engineering Services for up to 55 Townhome unit project in Henderson NV including Drainage Study, Traffic Study, Water Network Analysis, Civil Improvement Plans, and Final Map.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am the project manager and stamping engineer for the civil engineering tasks. I coordinate the progress with the design team including sub-consultants. I update the client with the progress of the project. I personally prepared the grading design, utility design, and QC the grading plans that was submitted with the drainage study. Preparing civil improvement plans and coordinating with design team.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I do not performed tasks that are outside the scope of work without having a written change order/additional service request. I do not invoice for any tasks for which I do not have a written contract or change order for.

SIGNATURE:

DATE:

PROBATION REPORT

(MUST BE TYPED)

PROBATIONER: M. Armando Monarrez

PE/PLS #: 019652

EMPLOYER: CVL Nevada, Inc.

PROBATION REPORT SUMMITTED FOR THE PERIOD OF: 09/20/2023

THROUGH: 11/19/2023

CLIENT

NAME: Clark County Water Reclamation District

ADDRESS: 5857 E. Flamingo Rd.

CITY: Las Vegas

STATE: NV

ZIP CODE: 89122

PROJECT

NAME: 20104 – Collection System Rehabilitation

LOCATION OF PROJECT: Clark County Nevada Service Area

CITY: Las Vegas

STATE: NV

ZIP CODE: 89122

SIZE: All over Valley

START DATE: 01/25/21

END DATE: 10/31/23

STATUS OF PROJECT: CVL working on Bid Documents

FEE PAID BY CLIENT: \$40,905

SCOPE OF WORK:

Prepare contract documents including plans and specifications for rehabilitation of approximately 300 sewer pipe assets and 200 sewer manholes all over the CCWRD service area. The tasks include project management, pre-design report, dewatering evaluation, CCTV, potholes, survey, drawings, and specifications.

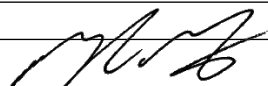
DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am the project manager and stamping engineer. I perform all project management tasks, coordinate with subconsultants, submit invoices, review pothole data, review CCTV, coordinate with CCWRD representatives, perform QC on the plans, write the specifications for the project, and responsible for the success of the project in the engineering design phase.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I do not performed tasks that are outside the scope of work without having a written change order/additional service request. I do not invoice for any tasks for which I do not have a written contract or change order for.

SIGNATURE:



DATE: 12/01/23

PROBATION REPORT

(MUST BE TYPED)

PROBATIONER: M. Armando Monarrez

PE/PLS #: 019652

EMPLOYER: CVL Nevada, Inc.

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: 09/20/2023

THROUGH: 11/19/2023

CLIENT

NAME: Ascaya Inc

ADDRESS: 1 Ascaya Blvd

CITY: Henderson

STATE: NV

ZIP CODE: 89012

PROJECT

NAME: Ascaya Canyon

LOCATION OF PROJECT: APN:178-33-314-016

CITY: Henderson

STATE: NV

ZIP CODE: 89012

SIZE: 132.77 acres

START DATE: 12/01/21

END DATE: 12/31/23

STATUS OF PROJECT: Preparing Civil Plans for 4th review at COH

FEE PAID BY CLIENT: \$20,841

SCOPE OF WORK:

Perform Engineering Services for up to 80 Condominium unit project in the hillside including, assistance with Zone Change, Tentative Map, Survey, Drainage Study, Traffic Study, Water Network Analysis, Water Master Plan, Civil Improvement Plans, and Final Map.

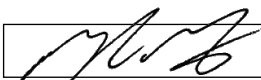
DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am the project manager and stamping engineer for the civil engineering tasks. I coordinate the progress with the design team including sub-consultants. I update the client with the progress of the project and review the changes the architect makes to make sure we are staying in compliance. I personally prepared the grading design, utility design, and QC the plans, survey, and drainage study.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I do not performed tasks that are outside the scope of work without having a written change order/additional service request. I do not invoice for any tasks for which I do not have a written contract or change order for.

SIGNATURE:



DATE: 12/01/23

PROBATION REPORT

(MUST BE TYPED)

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUMMITTED FOR THE PERIOD OF: THROUGH:

CLIENT

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

Perform engineering services as requested by Client. Such services may include revisions to previously approved plans, attend meetings, perform site inspections, coordinate with contractors and client as necessary.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I personally attend the meetings, perform field inspections, coordinate with client and contractors. I also review the revisions to the improvement plans and stamp for submittal.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I do not performed tasks that are outside the scope of work without having a written change order/additional service request. I do not invoice for any tasks for which I do not have a written contract or change order for.

SIGNATURE:

DATE:

Mark Johnson, PE 019830

Case Number: 20220004

Violation of NRS 625.410(2).

In July 2018, a client contracted with Mr Johnson's employer to provide engineering services for a single-family home and work barn located in Gardnerville, NV. These services included the site layout, design of the engineered septic system, mapping of the existing site, submittal to Douglas County, and follow-up. There was an estimated cost for these services, but the actual charges would be based on "time and materials."

Mr Johnson, as the professional engineer in charge on behalf his employer, requested the client commission and provide a Geotechnical Report for the property. SC received this report in late August 2018. This geotechnical report noted that "local groundwater levels are expected to fluctuate during flood irrigation, changes in precipitation, seasonal variations."

The septic tank was installed in July 2019. Soon after the installation, the farmland in the immediate area of the client's home was predictably flood irrigated. Within a week, water was found to have entered into the septic tank as a result of pipes in the system being compromised due to the tank "floating" i.e. vertical displacement, due to the rise in surrounding ground water.

Following discovery of this failure, Mr Johnson recommended a system design change, requiring installation of the tank above-ground (change from gravity flow to pump system). The client agreed to this recommendation.

After installation of the revised septic tank layout, the client learned that the above- ground tanks could have been located anywhere. The client reported that, had she known this, she would have placed the tanks next to the large leach field mound, instead of directly outside her bedroom window, where the revised installation was sited by Mr Johnson. The client questioned whether Mr Johnson's employer would bear responsibility for the extra expense incurred for the reinstallation of the above- ground septic tank system.

Mr Johnson's employer agreed to absorb the engineering fees for the above-ground system, but not the additional expense associated with the removal and reinstallation of the septic tank.

During the investigation, Mr Johnson admitted that he did not anticipate that the flood irrigation would have any impact on the groundwater level.

VIOLATIONS and DISCIPLINARY ACTION

Pursuant to NRS 625.410, in relevant part, the State Board may take disciplinary action against a licensee for “[a]ny gross negligence, incompetency or misconduct in the practice of professional engineering as a professional engineer or in the practice of land surveying as a professional land surveyor.” NRS 625.410(2). Here, Mr Johnson had the information that local groundwater levels would fluctuate during flood irrigation, changes in precipitation, and seasonal variation. Mr Johnson, however, failed to factor the known ground water variability into the in- ground septic tank design.

Based on the foregoing, Mr Johnson stipulates that he was grossly negligent in the engineering of the client’s septic system, and thus in violation of NRS 625.410(2).

NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any NRS Chapter 625 statute and/or any regulation adopted by the State Board. Further, pursuant to NAC 625.640, a disciplinary matter may be resolved without a formal hearing by a Stipulated Agreement.

To that end, to resolve Complaint Number 20220004 now pending, Mr Johnson and the State Board resolve this matter on the following basis:

- 1.) Mr Johnson’s Nevada license shall be suspended for twenty-four (24) months following entry of this Agreement, but with the suspension stayed and probation imposed for the duration of that time period.
- 2.) Mr Johnson shall submit, to the State Board, a complete list and description of his projects from July 01, 2018 to December 31, 2022 that involved septic design undertaken by Mr Johnson. The State Board will then randomly select three (3) of those projects to be subjected to an independent third-party peer review to evaluate Mr Johnson’s septic competency as a civil engineer. The third-party engineer shall be selected by the State Board, and Mr Johnson shall be responsible to pay for the services thereof upon presentment of the service’s invoice. The third-party engineer shall have no conflict of interest relating to Mr Johnson, his employer, or the client.
- 3.) Mr Johnson shall pay an administrative fine of Five Thousand and No/100 Dollars (\$5,000.00) within ninety (90) days of acceptance and execution of this Agreement by the State Board. A payment plan may be granted by State Board staff if requested by Mr Johnson and deemed warranted by State Board staff.

4.) Mr Johnson shall pay legal and investigative costs to the State Board a total of Two Thousand One Hundred Six and 50/100 Dollars (\$2,106.50) within ninety (90) days of acceptance and execution of this Agreement by the State Board.

5.) Mr Johnson shall, within one (1) year of the effective date of this Stipulated Agreement, successfully complete a NAWT Designer Course, and submit proof of completion to the State Board within sixty (60) days of completion of the course.

6.) Mr Johnson shall pay the client restitution in the amount of \$15,816.40 pursuant to NRS 625.460(1)(e), within ninety (90) days of acceptance and execution of this Agreement by the State Board.

LAST PROBATION REPORTS DUE August 15, 2025

PROBATION REPORT

(MUST BE TYPED)

Print Form

PROBATIONER: Mark Johnson, P.E.

PE/PLS #: 019830

EMPLOYER: Stanka Consulting LTD

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sep 27, 2023

THROUGH: Nov 26, 2023

CLIENT:

NAME: Bitterbrush Homeowners Association c/o Incline Property Management

ADDRESS: 848 Tanager Street Unit M

CITY: Incline Village

STATE: NV

ZIP CODE: 89451

PROJECT:

NAME: Bitterbrush Condo trash enclosure

LOCATION OF PROJECT: 400 Fairview Blvd

CITY: Incline Village

STATE: NV

ZIP CODE: 89451

SIZE: 5.17

START DATE: Sep 27, 2023

END DATE: Nov 26, 2023

STATUS OF PROJECT: Ongoing

FEE PAID BY CLIENT: \$65.00

SCOPE OF WORK:

Coordinate with Bitterbrush Board representative and structural and geotechnical engineers on revising their proposals so they (the structural and geotechnical engineers) will deal directly with the Board and not through Stanka Consulting LTD.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I have been the project engineer for the project. I have coordinated with a separate surveying company to provide a detailed contour and topo map for the area of the proposed trash enclosure. I have also coordinated with a geotechnical engineer and structural engineer since soil properties will need to be known in order to assist the structural engineer in design of the enclosure walls which will be over 4 ft in height.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

The scope of this project did not include any work for which I am on probation.

SIGNATURE: Mark Johnson

Digitally signed by Mark Johnson
DN: cn=Mark Johnson, o=Stanka Consulting LTD, ou=Engineering
email=mark@stankaconsulting.com, c=US
Date: 2023.12.13 11:24:50 -0700

DATE: December 13, 2023

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Mark Johnson, P.E.

PE/PLS #: 019830

EMPLOYER: Stanka Consulting LTD

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sep 27, 2023

THROUGH: Nov 26, 2023

CLIENT:

NAME: Carson Valley RV Storage LLC

ADDRESS: 1456 Industrial Way

CITY: Gardnerville

STATE: NV

ZIP CODE: 89410

PROJECT:

NAME: Carson Valley RV Storage

LOCATION OF PROJECT: 1716 Timber Ct

CITY: Gardnerville

STATE: NV

ZIP CODE: 89410

SIZE: 1.92

START DATE: Sep 27, 2023

END DATE: Nov 26, 2023

STATUS OF PROJECT: Ongoing

FEE PAID BY CLIENT: \$325.00

SCOPE OF WORK:

Work has begun on the project. May scope at this point is answering constructability questions from the client/contractor.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I have been the project engineer for the project since the engineer originally in charge of the project left our office. I have been working closely with Douglas County and the client/contractor to ensure the product is constructed according to standards and delivered in a timely manner.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

The scope of this project did not include any work for which I am on probation.

SIGNATURE: Mark Johnson

Digitally signed by Mark Johnson
DN: cn=Mark Johnson, o=Stanka Consulting LTD, ou=Engineering
email=mark@stankaconsulting.com, c=US
Date: 2023.12.13 10:56:30 -0700

DATE: December 13, 2023

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Mark Johnson, P.E.

PE/PLS #: 019830

EMPLOYER: Stanka Consulting LTD

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sep 27, 2023

THROUGH: Nov 26, 2023

CLIENT:

NAME: Jungo Ranches LLLP

ADDRESS: 8319 Clark Rd.

CITY: Marsing

STATE: ID

ZIP CODE: 83639

PROJECT:

NAME: Jungo Ranches LLLP

LOCATION OF PROJECT: Desert Valley Basin -HA 031

CITY: Humboldt County

STATE: NV

ZIP CODE: 89412

SIZE: 234.12

START DATE: Sep 27, 2023

END DATE: Nov 26, 2023

STATUS OF PROJECT: Complete

FEE PAID BY CLIENT: \$325.00

SCOPE OF WORK:

Prepare draft of withdrawal letter in connection with Reports of Conveyance and Abstracts of Title for Jungo Ranch LLC.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I only provided the draft letter of withdrawal in connection with the ROCs and Abstracts for a water right change application for Jungo Ranch LLLP.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

The scope of this project did not include any work for which I am on probation.

SIGNATURE: Mark Johnson

Digitally signed by Mark Johnson
DN: cn=Mark Johnson, o=Stanka Consulting LTD, ou=Engineering
email=mark@stankaconsulting.com, c=US
Date: 2023.12.13 11:09:14 -0700

DATE: December 13, 2023

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Mark Johnson, P.E.

PE/PLS #: 019830

EMPLOYER: Stanka Consulting LTD

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sep 27, 2023 THROUGH: Nov 26, 2023

CLIENT:

NAME: Phillip Slobogin

ADDRESS: PO Box 455

CITY: Minden

STATE: NV

ZIP CODE: 89423

PROJECT:

NAME: Slobogin Steel

LOCATION OF PROJECT: 2494 Nowlin Rd

CITY: Minden

STATE: NV

ZIP CODE: 89423

SIZE: 1.94

START DATE: Sep 27, 2023

END DATE: Nov 26, 2023

STATUS OF PROJECT: Ongoing

FEE PAID BY CLIENT: \$390.00

SCOPE OF WORK:

Complete revisions to additional review comments by Douglas County and submit to project engineer.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

The original plans were completed by another engineer in our office who has since left this office. I have been updating the plans based on Douglas County comments and coordination with the original engineer. I had obtained his permission to place my stamp on the plans.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

The scope of this project did not include any work for which I am on probation.

SIGNATURE: Mark Johnson

Digitally signed by Mark Johnson
DN: cn=Mark Johnson, o=Stanka Consulting LTD, ou=Engineering
email=mark@stankaconsulting.com, c=US
Date: 2023.12.13 11:18:24 -07'00'

DATE: December 13, 2023

Buckley Blew, PLS 024520

Case Number: 20230004

Violation of NRS 625.410 (2), 625.340, NRS 625.350(2)(a); and NRS 329.140(1).

Mr Blew self-reported a disciplinary action imposed against his California professional land surveyor license by the California Board of Professional Engineers, Land Surveyors, and Geologists (the “California Board”) in his license renewal application.

CALIFORNIA BOARD DISCIPLINARY ACTION

The California Board action against Mr Blew was based on the following:

A) California Business and Professions Code (“Code”) § 8780(d) and § 8762(b)(4) and (c) for failing to file a record of survey within ninety (90) days of his survey of the following properties:

- 555 and 575 Market Street, San Francisco
- 1281 W. National Drive, Sacramento
- 1520 and 1620 W. National Drive, Sacramento
- 1534 N. Market Blvd. and 4201 Sierra Point Drive, Sacramento
- 1700 W. National Drive, Sacramento
- 3200-3298 Orange Grove Avenue, Sacramento
- 1401 Civic Court, Concord

B) Under Code § 8780(b) for negligence in the practice of land surveying, in that Mr Blew did not meet the standard of care for a licensed land surveying when he failed to file a record of survey for the aforementioned properties. In addition, for the properties located at 1520 and 1620 W. National Drive, Sacramento, at 1534 N. Market Blvd. and 4201 Sierra Point Drive, Sacramento, and at 1700 W. National Drive, Sacramento, Mr Blew was disciplined under Code § 8780(b) for negligence in the practice of land surveying, in that Mr Blew did not meet the standard of care for a licensed land surveying when he failed to set monuments.

C) Under Code § 8780(d) and § 8765(d) for failing to file a corner record for 8845 Washington Blvd., Roseville. In addition, Mr Blew was disciplined under Code § 8780(b) in that he was negligent in his practice of land surveying regarding 8845 Washington Blvd., Roseville.

D) Under Code § 8780(b) in that he was negligent and/or incompetent in the practice of land surveying in that the establishment of boundaries shown on Mr Blew’s ALTA/NSPS maps indicated a practice of using a minimum of unreferenced control points and using “record” information from a single direction to establish boundary lines. This practice is reasonably foreseeable to lead to gaps and overlaps in boundaries.

Based on the above Mr Blew stipulated with the California Board to the following violations: (1) failure to file a timely record of survey; (2) negligence in the practice of land surveying; (3) failure to file a corner report; and (4) incompetence in the practice of land surveying. Pursuant to the California Board Stipulation and Order, Mr Blew's license was revoked, but the revocation was stayed pending the successful completion of three (3) years probation, reimbursement of investigative costs in the amount of Twelve Thousand Six Hundred Thirteen and 75/100 Dollars (\$12,613.75), completion and passage of the California Laws and Board Rules examination, passage of a Board approved ethics course within one (1) year, and completion and passage of two (2) college-level Board approved land surveying courses.

NEVADA BOARD DISCIPLINARY ACTION

NRS 625.410 states that the Nevada State Board may take disciplinary action against a licensee for discipline by another state or territory if at least one of the grounds for discipline is the same or substantially equivalent to any ground under Nevada law.

The State Board does not have statutory authority to take disciplinary action against licensees for mere negligence. Thus, Mr Blew's cause for discipline due to his negligence does not constitute a violation of NRS 625.410(6).

Mr Blew's cause for discipline for failure to file a timely record of survey, however, is substantially equivalent to NRS 625.340, in which professional land surveyors shall "within 90 day after the establishment of points or lines, file . . . a record of survey relating to land boundaries and property lines." In addition, NRS 625.350 states that a record of survey must show, among other things, "[a]ll monuments found, set, reset, or replaced, describing their kind, size and location and giving other data relating thereto." NRS 625.350(2)(a).

Mr Blew was also disciplined for failing to file a corner record. This cause for discipline is substantially equivalent NRS 329.140, in which a "a surveyor shall complete, sign and record or cause to be recorded . . . a written record of the establishment or restoration or a corner The survey information must be recorded within 90 days after the survey is completed." NRS 329.140(1).

Finally, Mr Blew was disciplined for negligence and/or incompetence. NRS 625.410 states that the Board may take disciplinary action against a licensee for "[a]ny gross negligence, incompetency or misconduct in the practice of professional engineering as a professional engineer or in the practice of land surveying as a professional land surveyor." NRS 625.410(2).

Thus, since at least one of the grounds for discipline in California is substantially similar to a ground for discipline in Nevada, the State Board may take disciplinary action against Mr Blew.

NRS 625.410 states that the State Board may take disciplinary action against a licensee for discipline by another state or territory if at least one of the grounds for discipline is the same or substantially equivalent to any ground under Nevada law.

Pursuant to NAC 625.640(3)(b)(2), a disciplinary matter against a licensee may be resolved without a formal hearing by Stipulated Agreement. As such, Mr Blew and the State Board hereby stipulate to the following terms for the above-referenced violation(s):

1. Mr Blew's license shall be revoked following entry of this Agreement, but with revocation stayed and probation imposed for a term of three (3) years.
2. The licensee shall submit detailed bi-monthly probation reports to the Executive Director of the State Board, which shall report any work completed in Nevada during the previous two (2) month period. A report shall be filed even if no work was performed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Each report shall include a copy of the contract executed for any work in Nevada, including the scope of work detail.
3. Mr Blew shall provide the State Board with proof of fulfilling the California Stipulated Agreement obligations.

LAST PROBATION REPORTS DUE August 15, 2026

PROBATION REPORT
(MUST BE TYPED)

Print Form

PROBATIONER: Buckley Blew

PE/PLS #: 024520

EMPLOYER: Blew & Associates, P.A.

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sept 20, 2023

THROUGH: Nov 19, 2023

CLIENT:

NAME: NA

ADDRESS: NA

CITY: NA

STATE: NA

ZIP CODE: NA

PROJECT:

NAME: NA

LOCATION OF PROJECT: NA

CITY: NA

STATE: NA

ZIP CODE: NA

SIZE: NA

START DATE: NA

END DATE: NA

STATUS OF PROJECT: NA

FEE PAID BY CLIENT: NA

SCOPE OF WORK:

NA

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

NA

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

NA

SIGNATURE:



DATE: Dec 14, 2023

Lynn Affleck, PE 007676

Petition for Re-Licensure

Decision and Order

Through a series of disciplinary hearings against Mr Affleck, the the first being held on May 11, 2006, and the final held on January 14, 2010, Mr Affleck's Nevada Professional Engineering License was revoked. In addition, Mr Affleck was prohibited from petitioning for re-licensure until January 14, 2012, and Mr Affleck could only be considered for re-licensure if he complied with certain terms set forth by the State Board in its January 25, 2010, Decision and Order.

The January 25, 2010, Decision and Order was subject to Petition for Judicial Review by Mr Affleck in Nevada District Court, and, subsequently by appeal to the Nevada Supreme Court, and the State Board's Decision and Order was upheld at both levels, ultimately by a February 10, 2012 Order of the Nevada Supreme Court.

On or about April 23, 2021, Mr Affleck submitted his Petition for Re-Licensure to the Nevada Board, and the matter was heard on May 20, 2021. Following deliberation, a motion was made, seconded, and adopted, and the Board ruled that Mr Affleck be re-licensed upon satisfying the following conditions:

- a. Mr Affleck obtains and delivers to the Executive Director of the Nevada Board a letter from his present employer, Jeffrey J. Jensen, P.E. No. 15737, of GIS Engineering, recommending that Mr Affleck be immediately re-licensed as a Professional Civil Engineer in the State of Nevada.
- b. Mr Affleck pays the Board the amount of Two Thousand Five Hundred and No/100 Dollars (\$2,500.00) still owed to the Board pursuant to its January 25, 2010 Decision and Order.
- c. Mr Affleck provides proof of obtaining thirty (30) Professional Development Hours in the immediately previous two (2) year period, plus proof of one (1) hour of review of Nevada engineering law and two (2) hours of professional engineering ethics.
- d. Mr Affleck's license shall be suspended for two (2) years immediately upon issuance, but the suspension stayed, and probation imposed for the duration of that time period.
- e. The stay of Mr Affleck's license suspension may be lifted by the State Board, upon notice and the opportunity for Mr Affleck to be heard, should Mr Affleck fail to abide by the terms hereof.

- f. Mr Affleck's successful completion of probation is expressly conditioned upon his full compliance with the above terms and following conditions of probation:
 - i. Mr Affleck shall submit detailed quarterly probation reports to the Executive Director of the Board, which shall report any work performed and/or completed in Nevada during the previous three (3) month period. A report shall be filed even if no work has performed during the previous two (2) month period. The first report shall be due within two (2) months of Mr Affleck's re-licensure. Each report shall include a copy of the contract executed for any work in Nevada, including the scope of work detail, as well as the supporting project documentation.

LAST PROBATION REPORTS DUE December 1, 2023

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUMMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

Develop an undeveloped site ready for the construction of a new church building. This includes: Drainage Study, Grading Plan, Off-Site Improvement Plans.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I met with the representative at the site. I wrote the contract and the scope of work. I wrote the Drainage Study. I am preparing Off-site and On-site improvement plans while awaiting Drainage Study approval which will require County concurrence with the City approval. The site is a City parcel but surrounded by County parcels.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

The latest revision of the Plot and Grading Plan moves the handicap parking around to the other side of the building because access had to be closer, and had to provide slopes which are compliant. I shared my configuration with the Architect and he revised his Site Plan to match. Utilities plans are now being designed.

SIGNATURE:

DATE:

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:
NAME:
ADDRESS:
CITY: STATE: ZIP CODE:

PROJECT:
NAME:
LOCATION OF PROJECT:
CITY: STATE: ZIP CODE:
SIZE: START DATE: END DATE:
STATUS OF PROJECT:
FEE PAID BY CLIENT:

SCOPE OF WORK:

Street Improvement Plans, Bond Estimate, and Processing. Coordination with another engineering firm which is doing work adjacent to this project.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

We are now reformatting the Street Improvement Plans to match with plans provided by another engineer, which continues southward on the same street. Whereas the same contractor will be constructing both plans, it is hoped that the contractor will recognize each set of plans as phases of the same project.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

In reformatting the plans, it is paramount that the revisions show forth understanding of what the intent of the other engineer is. Upon being successful in merging the two sets of plans, this will streamline the construction process and will save the client a substantial amount of money. This ethical win-win we did.

SIGNATURE:

DATE:

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

This project is a Plot and Grading Plan for a Single Family Residence.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I took in the phone call, logged in the project, did the research, issued the contract, then drew up the plan ready to be added to the architectural plans to be submitted to the Building Department for a Building Permit. I successfully answered all comments coming back from the County reviewer and the permit was issued.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I have done several of these Single Family Residences before. I knew all of the components that were needed on the plan. Basically I was able to have the first issue of the Plan be the issue that was used for the permit.

SIGNATURE:

DATE:

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT:

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT:

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

Plot and Grading Plan for single family residence, 100 year flood plain review, Design Review for Excess Fill, Waiver for Excess Fill, On-site Utilities Plan, Septic System Design. To provide electrical power to the site, A solar farm was researched. Then NV Energy plans had to be processed through the Public Works system.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

This report is an enlarged the scope at client request. The Grading Plan was revised because of a new pool configuration. I researched solar for the site, but ultimately plans from NV Energy were processed through Public Works. Revised the Septic System for more fixtures. Then revised it again to a chamber system.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

This client is sophisticated and wanted the best outcome. As a result he wanted to explore different alternatives, which I accommodated. I was able to consult with him and advise him. Sometimes this took demonstrating different outcomes pictorially on the plans so to compare costs, which I was able to do.

SIGNATURE:

DATE:

Douglas Fellenz, EI OT8691

Petition for Engineering Intern Certification

Decision and Order

Mr Fellenz submitted an application with the Nevada Board to be registered in Nevada as an Engineering Intern on October 12, 2021, pursuant to NRS 625.385 and NAC 625.210. In his application Mr Fellenz disclosed that he had entered into a Consent Agreement with the Arkansas State Board of Licensure for Professional Engineers and Professional Surveys (“Arkansas Board”), which provided for the entry of an order of professional discipline by the Arkansas Board, revoking Mr Fellenz’ engineering and surveying intern certifications in Arkansas, based upon his admission of violating various provisions of Arkansas Code.

Due to concerns regarding the circumstances of Mr Fellenz previous discipline by the Arkansas Board, the Executive Director of the Nevada Board submitted the question of whether Mr Fellenz satisfies the qualifications and competency requirements to be certified as an engineering intern under NRS 625.152(1), and the matter was heard by the Board at its November 18, 2021, Meeting. Following deliberation, a motion was made, seconded, and adopted, and the Board that Mr Fellenz be certified as an engineering intern in the state of Nevada, subject to the following conditions:

- a. Mr Fellenz takes an ethics in engineering course, pre-approved by State Board staff, and provides proof of completion to Nevada Board staff by May 18, 2022.
- b. Mr Fellenz’ engineer intern certification, or if applied for and granted, engineering and/or land surveying licensure, shall be suspended until November 18, 2023, but the suspension shall be stayed, and probation imposed for that time period.
- c. Mr Fellenz successful completion of probation is expressly conditioned upon his full compliance with the above terms and the following conditions of probation:
 - i. Mr Fellenz shall submit detailed bi-monthly (i.e., every two months) probation reports to the Executive Director of the Board, which shall report any engineering related and/or surveying related work performed and/or completed in Nevada during the previous two (2) month period, as well as the name of the employer for whom/which the work was performed. The report shall be filled even if no work was performed during the previous two (2) month period. The first report shall be due on January 31, 2022.
 - ii. During his probation, Mr Fellenz shall disclose this discipline by the Board, and the basis therefor, to any and all organizations or individuals that hire Mr Fellenz.

LAST PROBATION REPORTS DUE January 1, 2024

PROBATION REPORT

(MUST BE TYPED)

PROBATIONER: Douglas Fellenz

PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sept 18, 2023 THROUGH: Nov 17, 2023

CLIENT

NAME: Allen Cannon c/o Nevada Pacific Holdings I, LLC

ADDRESS: 490 Grand Avenue, Suite 200

CITY: Oakland

STATE: CA

ZIP CODE: 94610

PROJECT

NAME: 5880 S Virginia Street, Carl's Jr Restaurant – Civil Improvements

LOCATION OF PROJECT: 5880 S Virginia Street, Reno, NV Washoe County APN 025-280-10

CITY: Reno

STATE: NV

ZIP CODE: 89521

SIZE: 4,237 sq.ft.

START DATE: Oct 4, 2023

END DATE: Oct 31, 2023

STATUS OF PROJECT: Project Completed

FEE PAID BY CLIENT: \$6,550+

SCOPE OF WORK:

Final Engineering services to prepare Civil Construction Plans for Site Improvements to be made to the existing Carl's Jr Restaurant to install domestic backflow prevention assembly for City of Reno Permit review & approval, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I performed all phases of Scope of Services from beginning to final submittal, and I participated in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I am acting in a professional and ethical manner in all aspects of the project, and I will not be affixing a stamp to any of the drawings or reports submit. I also do not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: Douglas Fellenz PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sept 18, 2023 THROUGH: Nov 17, 2023

CLIENT

NAME: Stan Lucas c/o Project One

ADDRESS: 490 Hot Springs Road

CITY: Carson City STATE: NV ZIP CODE: 89706

PROJECT

NAME: Enterprise Way Civil Improvement Plans

LOCATION OF PROJECT: 35 Enterprise Way, Dayton, NV Lyon County APN 016-402-16

CITY: Lyon County STATE: NV ZIP CODE: multiple

SIZE: 2.00-acres START DATE: July 20, 2022 END DATE: ongoing

STATUS OF PROJECT: Project Under Construction

FEE PAID BY CLIENT: \$41,490+

SCOPE OF WORK:

Preliminary & Final Engineering services to prepare a site layout, as well as site grading & drainage, site utilities layout/tie ins, cross sections, and hydrology report for Final Permit review & approval, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am performing all phases of Scope of Services from beginning to final submittal, and I participate in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase. Project is currently under construction, and TEC is acting as Engineer of Record for the Owner.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I am acting in a professional and ethical manner in all aspects of the project, and I will not be affixing a stamp to any of the drawings or reports submit. I also do not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: Douglas Fellenz PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sept 18, 2023 THROUGH: Nov 17, 2023

CLIENT

NAME: Stan Lucas c/o Project One

ADDRESS: 490 Hot Springs Road

CITY: Carson City STATE: NV ZIP CODE: 89706

PROJECT

NAME: 23 Enterprise Way Civil Improvement Plans

LOCATION OF PROJECT: 23 Enterprise Way, Dayton, NV Lyon County APN 016-402-17

CITY: Lyon County STATE: NV ZIP CODE: multiple

SIZE: 3.00-acres START DATE: Jan 4, 2023 END DATE: ongoing

STATUS OF PROJECT: Final Design Phase – Under Review by County

FEE PAID BY CLIENT: \$67,240+

SCOPE OF WORK:

Final Engineering services to prepare a final design site layout, as well as site grading & drainage, site utilities layout/tie ins, cross sections, and hydrology report for Final Site Improvement Permit review & approval, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am performing all phases of Scope of Services from beginning to final submittal, and I participate in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I am acting in a professional and ethical manner in all aspects of the project, and I will not be affixing a stamp to any of the drawings or reports submit. I also do not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: Douglas Fellenz

PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sept 18, 2023 THROUGH: Nov 17, 2023

CLIENT

NAME: Kari Galgon c/o G-4CE Sunnyside, LLC

ADDRESS: 14180 Wild Quail Court

CITY: Reno

STATE: NV

ZIP CODE: 89511

PROJECT

NAME: 201 Sunnyside Drive Residential Gas Service Improvements

LOCATION OF PROJECT: 201 Sunnyside Drive, Reno, NV Washoe County APN 006-077-15

CITY: Reno

STATE: NV

ZIP CODE: 89511

SIZE:

START DATE: Nov 7, 2023

END DATE: ongoing

STATUS OF PROJECT: Ongoing

FEE PAID BY CLIENT: \$18,350+

SCOPE OF WORK:

Preliminary & Final Engineering services to prepare Mechanical, Plumbing & Structural Plans for changeout to natural gas services for Preliminary & Final Permit review & approval, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am performing all phases of Scope of Services from beginning to final submittal, and I am participating in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I am acting in a professional and ethical manner in all aspects of the project, and I will not be affixing a stamp to any of the drawings or reports submit. I also do not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT

(MUST BE TYPED)

PROBATIONER: Douglas Fellenz

PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sept 18, 2023

THROUGH: Nov 17, 2023

CLIENT

NAME: Lepori Construction, Inc.

ADDRESS: 1580 Hyman Avenue, Suite 100

CITY: Sparks

STATE: NV

ZIP CODE: 89431

PROJECT

NAME: Rainbow Market Car Wash – Civil Improvement Plans

LOCATION OF PROJECT: 4696 Sun Valley Drive

CITY: Washoe County

STATE: NV

ZIP CODE:

SIZE: 1.00-acre

START DATE: Mar 18, 2023

END DATE: ongoing

STATUS OF PROJECT: Final Design Phase

FEE PAID BY CLIENT: \$26,845+/-

SCOPE OF WORK:

Final Engineering services to prepare a site layout, as well as site grading & drainage, site utilities layout/tie ins, cross sections, and hydrology report for Final Permit review & approval, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am performing all phases of Scope of Services from beginning to final submittal, and I participate in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase. Currently working with various jurisdictions through redlines, meetings, etc.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I acted in a professional and ethical manner in all aspects of the project, and I did not affix a stamp to any of the drawings or reports submitted. I also did not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: Douglas Fellenz

PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUMMITTED FOR THE PERIOD OF: Sept 18, 2023 THROUGH: Nov 17, 2023

CLIENT

NAME: Kari Galgon c/o G-4CE Chism Mobile Home Park, LLC & G-4CE Chism Rental Property, LLC

ADDRESS: 14180 Wild Quail Court

CITY: Reno

STATE: NV

ZIP CODE: 89511

PROJECT

NAME: Chism Mobile Home Park Laundry Building & Rental House Gas Service Improvements

LOCATION OF PROJECT: City of Reno, NV Washoe County APN 010-031-02 & 010-031-03

CITY: Reno

STATE: NV

ZIP CODE: 89511

SIZE:

START DATE: Oct 19, 2023

END DATE: ongoing

STATUS OF PROJECT: Ongoing

FEE PAID BY CLIENT: \$18,300+

SCOPE OF WORK:

Preliminary & Final Engineering services to prepare Mechanical, Plumbing & Structural Plans for changeout to natural gas services for Preliminary & Final Permit review & approval, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am performing all phases of Scope of Services from beginning to final submittal, and I am participating in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I am acting in a professional and ethical manner in all aspects of the project, and I will not be affixing a stamp to any of the drawings or reports submit. I also do not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: Douglas Fellenz PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sept 18, 2023 THROUGH: Nov 17, 2023

CLIENT

NAME: Kari Galgon c/o G-4CE Chism Mobile Home Park, LLC

ADDRESS: 14180 Wild Quail Court

CITY: Reno STATE: NV ZIP CODE: 89511

PROJECT

NAME: Chism Mini-Storage Commercial Development

LOCATION OF PROJECT: City of Reno, NV Washoe County APN 010-610-02

CITY: Reno STATE: NV ZIP CODE: 89511

SIZE: 1.15 ac+/- START DATE: Oct 13, 2023 END DATE: ongoing

STATUS OF PROJECT: Ongoing

FEE PAID BY CLIENT: \$21,740+

SCOPE OF WORK:

Preliminary & Final Engineering services to prepare a site layout, as well as site grading & drainage, site utilities layout/tie ins, cross sections, and hydrology report for Preliminary & Final Permit review & approval, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am performing all phases of Scope of Services from beginning to final submittal, and I am participating in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I am acting in a professional and ethical manner in all aspects of the project, and I will not be affixing a stamp to any of the drawings or reports submit. I also do not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: Douglas Fellenz PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sept 18, 2023 THROUGH: Nov 18, 2023

CLIENT

NAME: Versity Investments, LLC

ADDRESS: 130 Vantis Drive, Suite 170

CITY: Aliso Viejo STATE: CA ZIP CODE: 92656

PROJECT

NAME: Wolf Run North – Final Civil Improvement Plans

LOCATION OF PROJECT: 1980 Valley Road, Reno, APNs 004-202-(52,53,60-63)

CITY: Reno STATE: NV ZIP CODE: 89521

SIZE: 4.55-acre START DATE: Jan 4, 2022 END DATE: ongoing

STATUS OF PROJECT: Ongoing

FEE PAID BY CLIENT: \$123,040

SCOPE OF WORK:

Final Engineering Design services to prepare site layout, grading drainage, utility plan, cross sections, profiles, hydrology report and sewer report, details, TMWA plans, etc. for final approval for Construction, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application and entitlement process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am currently performing all phases of Scope of Services from beginning to final submittal, and participate in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase. (Initial Submittal made August 1, 2022). Worked through value engineering aspects of the project, and have begun revision of all plan sheets per new layout. Resubmittal of new design made for City review.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I acted in a professional and ethical manner in all aspects of the project, and I did not affix a stamp to any of the drawings or reports submitted. I also did not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT

(MUST BE TYPED)

PROBATIONER: Douglas Fellenz

PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUMMITTED FOR THE PERIOD OF: Sept 18, 2023

THROUGH: Nov 17, 2023

CLIENT

NAME: Stan Lucas c/o Project One

ADDRESS: 490 Hot Springs Road

CITY: Carson City

STATE: NV

ZIP CODE: 89706

PROJECT

NAME: 10 Enterprise Way Civil Improvement Plans

LOCATION OF PROJECT: 10 Enterprise Way, Dayton, NV Lyon County APN 016-402-24

CITY: Lyon County

STATE: NV

ZIP CODE: multiple

SIZE: 1.49-acres

START DATE: Jan 4, 2023

END DATE: ongoing

STATUS OF PROJECT: Final Design Phase—Under Review by County

FEE PAID BY CLIENT: \$78,900+

SCOPE OF WORK:

Preliminary & Final Engineering services to prepare a site layout, as well as site grading & drainage, site utilities layout/tie ins, cross sections, and hydrology report for Preliminary & Final Permit review & approval, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am performing all phases of Scope of Services from beginning to final submittal, and I participate in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase. Project received NDPE BSDW approval on Dec 20, 2023...awaiting County Final release of permit.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I am acting in a professional and ethical manner in all aspects of the project, and I will not be affixing a stamp to any of the drawings or reports submit. I also do not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: Douglas Fellenz PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sept 18, 2023 THROUGH: Nov 17, 2023

CLIENT

NAME: Stanley Lucas c/o Don Smit, Project One Nevada LLC

ADDRESS: 490 Hot Springs Road

CITY: Carson City STATE: NV ZIP CODE: 89706

PROJECT

NAME: SH Estates Phase 1 – Civil Improvement Plans

LOCATION OF PROJECT: Stagecoach, APN 015-365-(01-04)/015-371-(05-08)/ 015-451-01

CITY: Lyon County STATE: NV ZIP CODE: multiple

SIZE: 497.52-acres START DATE: April 19, 2023 END DATE: ongoing

STATUS OF PROJECT: Final Construction Plans

FEE PAID BY CLIENT: \$247,920+

SCOPE OF WORK:

Final Engineering services to prepare construction drawings for Phase 1 of the overall project, including subdivision layout, roadway alignments and lot/building configurations, as well as site grading & drainage, site utilities layout/tie ins, plan & profiles, and final hydrology report for Final Subdivision Permit review & approval, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am performing all phases of Scope of Services from beginning to final submittal, and I participate in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I am acting in a professional and ethical manner in all aspects of the project, and I will not be affixing a stamp to any of the drawings or reports submit. I also do not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: Douglas Fellenz PE/PLS #:

EMPLOYER: TEC Engineering

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: Sept 18, 2023 THROUGH: Nov 17, 2023

CLIENT

NAME: Kari Galgon

ADDRESS: 14180 Wild Quail Court

CITY: Reno

STATE: NV

ZIP CODE: 89511

PROJECT

NAME: Elm Estate Due Diligence General Services Contract

LOCATION OF PROJECT: 1401/1315 W 2nd Street, Reno, NV Washoe County APN 010-031-01, -02, -03, -10, -11

CITY: Reno

STATE: NV

ZIP CODE: 89511

SIZE:

START DATE: Sept 21, 2023

END DATE: ongoing

STATUS OF PROJECT: Ongoing

FEE PAID BY CLIENT: \$10,000+

SCOPE OF WORK:

General consulting services related to the proposed expansion of the Elm Estate RV Park and the Wedding Venue addition and site improvements, including but not limited to miscellaneous coordination with Client, design team, jurisdictional agencies.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am performing all phases of Scope of Services from beginning to final submittal, and I am participating in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I am acting in a professional and ethical manner in all aspects of the project, and I will not be affixing a stamp to any of the drawings or reports submit. I also do not represent during any interactions as a currently licensed PE.

SIGNATURE: Douglas Fellenz

DATE: January 1, 2024

PROBATION REPORT
(MUST BE TYPED)

PROBATIONER: PE/PLS #:

EMPLOYER:

PROBATION REPORT SUBMITTED FOR THE PERIOD OF: THROUGH:

CLIENT

NAME:

ADDRESS:

CITY: STATE: ZIP CODE:

PROJECT

NAME:

LOCATION OF PROJECT:

CITY: STATE: ZIP CODE:

SIZE: START DATE: END DATE:

STATUS OF PROJECT:

FEE PAID BY CLIENT:

SCOPE OF WORK:

Final Engineering services to prepare a site layout, as well as site grading & drainage, site utilities layout/tie ins, cross sections, and hydrology report for Final Permit review & approval, along with Administrative Services to coordinate with Client, Client's representatives and jurisdictional agencies as necessary throughout the application process.

DESCRIBE IN DETAIL YOUR INVOLVEMENT IN THIS PROJECT AND HOW YOU HANDLED THIS PROJECT.

I am performing all phases of Scope of Services from beginning to final submittal, and I participate in all correspondence with Client, Client's representatives, jurisdictional agencies as necessary during design phase. Currently working with various jurisdictions through redlines, meetings, etc.

DESCRIBE IN DETAIL HOW YOU IMPROVED ON THIS PROJECT IN THE AREAS FOR WHICH YOU ARE ON PROBATION.

I acted in a professional and ethical manner in all aspects of the project, and I did not affix a stamp to any of the drawings or reports submitted. I also did not represent during any interactions as a currently licensed PE.

SIGNATURE:

DATE:

11. Board Counsel Report

12. Formal Hearing for
Complaint # 20230019,
Lazell Preator, PE Lic#
14982

1 BEFORE THE STATE OF NEVADA
2 BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
3

4 IN THE MATTER OF

5 LAZELL PREATOR

6 A PROFESSIONAL ENGINEER

COMPLAINT

7 LICENSE NUMBER 014982

8 COMPLAINT NUMBER 20230019
9 _____/

10 Complainant, MURRAY BLANEY, as Compliance Officer/Investigator of the State of
11 Nevada Board of Professional Engineers and Land Surveyors ("State Board"), does hereby complain
12 against LAZELL PREATOR and respectfully requests that he be disciplined and avers as grounds
13 therefor the following:

14 **I. BACKGROUND**

15 1. Mr. Preator is licensed as a professional engineer in the State of Nevada having
16 license number 014982 in the discipline of civil engineering.

17 2. On or about November 8, 2018, based on a disciplinary complaint filed against Mr.
18 Preator, the State Board executed a stipulated agreement ("2018 Stipulated Agreement") with terms
19 offered by Executive Director of the State Board and accepted by Mr. Preator, a copy of which is
20 attached as Exhibit "1" to this Complaint and incorporated by this reference as if set forth fully
21 therein.

22 3. Under the 2018 Stipulated Agreement, Mr. Preator acknowledged that he violated
23 various statutes and regulations under NRS chapter 625, and he and the State Board agreed that his
24 professional engineering license, issued by the State Board, was to be suspended for twelve (12)
25 months, but with the suspension stayed, and probation imposed for the remainder of that time period,
26 so long as Mr. Preator complied with the terms of the 2018 Stipulated Agreement.

27 4. On or about January 14, 2021, based on two disciplinary complaints filed against Mr.
28 Preator, the State Board executed a Stipulated Agreement ("2021 Stipulated Agreement") with terms

1 offered by Executive Director of the State Board and accepted by Mr. Preator, a copy of which is
2 attached as Exhibit "2" to this Complaint and incorporated by this reference as if set forth fully
3 therein.

4 5. Under the 2021 Stipulated Agreement, Mr. Preator acknowledged that he violated
5 various statutes and regulations under NRS chapter 625, and he and the State Board agreed that his
6 professional engineering license, issued by the State Board, was to be suspended for thirty-six (36)
7 months, but with the suspension stayed, and probation imposed for the remainder of that time period,
8 so long as Mr. Preator complied with the terms of the 2021 Stipulated Agreement.

9 6. On January 31, 2023, the Chair of the State board executed a Decision and Order
10 against Mr. Preator, a copy of which is attached as Exhibit "3" to this Complaint and incorporated by
11 this reference as if set forth fully herein. In the Decision and Order, the State Board found Mr.
12 Preator had violated the terms of the 2021 Stipulated Agreement, and the stay on the suspension of
13 his license was consequently lifted until January 14, 2024. The Decision and Order did not limit the
14 powers of the State Board to impose discipline on Mr. Preator independent of that action and/or for
15 matters not yet presented to the State Board.

16 **CLAIM ONE**

17 7. Complainant hereby incorporates all prior allegations of this Complaint as though
18 fully set forth herein.

19 8. On February 9, 2023, Mr. Preator sealed and signed an engineering report using his
20 Nevada license on behalf of his former employer, J.S. Held, LLC.

21 9. NRS 625.410(8) provides that the State Board may take disciplinary action against a
22 licensee for "[f]ailing to comply with an order issued by the Board."

23 10. NRS 625.410(7) provides that the State Board may take disciplinary action against a
24 licensee for "practicing after the license of a professional engineer or professional land surveyor has
25 expired or has been suspended or revoked."

26 11. Mr. Preator violated the aforementioned provisions by signing and stamping the
27 engineering report on behalf of J.S. Held, LLC on February 9, 2023, after the January 31, 2023
28 Decision and Order that lifted the suspension of his license until January 14, 2024.

12. NRS 625.410(5) authorizes the State Board to take disciplinary action against a licensee for a violation of any provision of NRS Chapter 625 or NAC Chapter 625. Mr. Preator's violation of NRS 625.410(8) and/or NRS 625.410(7) provide sufficient grounds for the imposition of discipline of his registration as a professional engineer in the State of Nevada.

13. Mr. Preator has been previously disciplined by the State Board thrice, which may be considered by the State Board as an aggravating factor in the imposition of discipline.

CLAIM TWO

14. Complainant hereby incorporates all prior allegations of this Complaint as though fully set forth herein.

15. On March 6, 2023, Mr. Preator signed and stamped a Grading Plan for the 6380 Darby project and filed the plan with the Clark County Department of Building and Fire Protection.

16. NRS 625.410(8) provides that the State Board may take disciplinary action against a licensee for “[f]ailing to comply with an order issued by the Board.”

17. NRS 625.410(7) provides that the State Board may take disciplinary action against a licensee for “practicing after the license of a professional engineer or professional land surveyor has expired or has been suspended or revoked.”

18. Mr. Preator violated the aforementioned provisions by signing and stamping the Grading Plan on March 6, 2023, after the January 31, 2023 Decision and Order that lifted the suspension of his license until January 14, 2024.

19. NRS 625.410(5) authorizes the State Board to take disciplinary action against a licensee for a violation of any provision of NRS Chapter 625 or NAC Chapter 625. Mr. Preator's violation of NRS 625.410(8) and/or NRS 625.410(7) provide sufficient grounds for the imposition of discipline of his registration as a professional engineer in the State of Nevada.

20. Mr. Preator has been previously disciplined by the State Board thrice, which may be considered by the State Board as an aggravating factor in the imposition of discipline.

CLAIM THREE

21. Complainant hereby incorporates all prior allegations of this Complaint as though fully set forth herein.

32. Mr. Preator violated the aforementioned provisions by signing and stamping the engineering report on June 20, 2023, after the January 31, 2023 Decision and Order that lifted the suspension of his license until January 14, 2024.

33. NRS 625.410(5) authorizes the State Board to take disciplinary action against a licensee for a violation of any provision of NRS Chapter 625 or NAC Chapter 625. Mr. Preator's violation of NRS 625.410(8) and/or NRS 625.410(7) provide sufficient grounds for the imposition of discipline of his registration as a professional engineer in the State of Nevada.

34. Mr. Preator has been previously disciplined by the State Board thrice, which may be considered by the State Board as an aggravating factor in the imposition of discipline.

WHEREFORE, Complainant respectfully request that a hearing be had, and upon such hearing, that the Nevada State Board of Professional Engineers and Land Surveyors enter an order imposing one or more of the following penalties in the Board's discretion:

1. Revocation or further suspension of Mr. Preator license as a professional land surveyor in the State of Nevada being license number 014982;

2. Imposition of an administrative fine in an amount not to exceed \$15,000.00 for each violation of Chapters 625 of the Nevada Revised Statutes and Nevada Administrative Code and/or any regulation adopted by the Board;

3. Other disciplinary action deemed appropriate; and

4. Directing Mr. Preator to reimburse the State Board for all costs and fees incurred in the investigation of these matters and prosecution of this disciplinary action.

DATED this 15th day of DECEMBER, 2023.

State of Nevada Board of Professional
Engineers and Land Surveyors


By:

MURRAY BLANEY
Compliance Officer/Investigator

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That I am a Compliance Officer/Investigator of the STATE OF NEVADA BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS, the Complainant in the above-entitled action; that I have read the foregoing Complaint and know the contents thereof; that the same are true and correct to the best of my knowledge, save and except those matters therein stated on information and belief and as to those matters I believe them to be true.

State of Nevada Board of Professional
Engineers and Land Surveyors



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INDEX OF EXHIBITS

<u>Exhibit</u>	<u>Description</u>	<u>Number of Pages</u> (Excluding Cover Pages)
1	2018 Stipulated Agreement	5
2	2021 Stipulated Agreement	10
3	Decision and Order	3

4857-6658-4470, v. 1

EXHIBIT 1

EXHIBIT 1

STIPULATED AGREEMENT
OF LAZELL PREATOR, P.E.
LICENSE NO. 014982
COMPLAINT NO. 20180006

This Stipulated Agreement is made by and between the Nevada State Board of Professional Engineers and Land Surveyors (the "State Board") and LAZELL PREATOR, a licensed professional engineer in the State of Nevada. A complaint has been submitted against Mr. Preator by the Deputy Building and Safety Director for the City of Las Vegas, alleging the submission of plans containing the forged signatures of two senior building officials in an attempt to obtain a building permit.

Specifically, on March 7, 2018, the office of the Deputy Building and Safety Director for the City of Las Vegas received a plan set entitled "Calverts Main Extension Plan". The plan set included an irregular and misspelled signature of the City Engineer, Allen Pavelka, with his name signed "Alan" as opposed to the proper spelling "Allen." The plan set further included a signature of a retired Director of Building and Safety, Chris Knight. Mr. Preator asserts that he relied on a third party to acquire said signatures, and that said third party, unbeknownst to Mr. Preator, obtained or affixed the forged signatures. Although Mr. Preator denies forging the signatures at issue, he admits that he is responsible for documents that he seals and signs and that he is responsible to use due care and oversight to manage originals and copies of all documents he has signed and sealed.

NRS 625.410(2) provides authority for the State Board to administer discipline in Nevada for any gross negligence, incompetency or misconduct in the practice of professional engineering as a professional engineer. NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any provision of NRS 625 or regulation adopted by the

Board. Finally, NAC 625.530 provides authority for the State Board to administer discipline in Nevada for failure to act in professional matters as a faithful agent or trustee for each employer or client.

Based on the foregoing, Mr. Preator stipulates that he violated NRS 625.410(2), in that his conduct constituted gross negligence, incompetence, or misconduct in the practice of professional engineering. Further, Mr. Preator stipulates that he violated NAC 625.530, because, as an agent of a client, he failed to exercise due care and oversight in submitting the plan set to the office of the Deputy Building and Safety Director for the City of Las Vegas.

Pursuant to NAC 625.640, this matter may be resolved without a formal hearing by Stipulated Agreement, on the following basis:

1. Mr. Preator's Nevada license shall be suspended for twelve (12) months following entry of this Agreement, pursuant to NRS 625.410 (2) and NAC 625.530, but with the suspension stayed and probation imposed for the duration of that time period.

2. The stay of Mr. Preator's suspension may be lifted by the State Board upon notice and the opportunity to be heard should Mr. Preator fail to abide by the terms hereof.

3. Mr. Preator's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:

- (a) Mr. Preator shall pay a fine of Five Hundred and No/100 Dollars (\$500.00) for each forged signature at issue, for a total fine of One Thousand and No/100 Dollars (\$1,000.00); and

- (b) Mr. Preator shall draft and file a White Paper on the meaning of responsible charge or work in relation to the practice of professional engineering.

4. Mr. Preator understands that he must accept this Stipulated Agreement

before it will be presented to the Board for consideration.

5. Mr. Preator understands that this Stipulated Agreement is subject to the approval of the State Board and has no force or effect until a final decision is rendered by the State Board.

6. The imposition of discipline set forth in this Stipulation does not limit the powers of the State Board to impose discipline upon Mr. Preator on matters not yet presented to the Board.

7. Mr. Preator acknowledges that he has the following rights, among others:

- (a) The right to a formal fact-finding hearing before the State Board;
- (b) The right to counsel;
- (c) The right to compel testimony of witnesses at hearing;
- (d) The right to cross-examine witnesses of the prosecution at hearing; and
- (e) The appellate right of judicial review of the State Board's decision resulting from a formal hearing.


8. By entering into this Stipulated Agreement Preator hereby waives the above-stated hearing rights, as well as any corresponding appellate rights, should this Agreement be approved and executed by the State Board.

9. Mr. Preator is entering this Stipulated Agreement upon his own volition, with full opportunity to consult legal counsel.

10. This Stipulated Agreement contains the entire agreement between the parties. Mr. Preator is not relying on any other agreement or representation, verbal or otherwise. This Agreement shall be effective upon approval and execution by the State Board.

I, LAZELL PREATOR, have read the above Stipulated Agreement, understand its

contents, and accept the conditions set forth within it.

Signed:  Date: 19 Sept 18, 2018
LAZELL PREATOR, P.E.

I, LAZELL PREATOR, P.E., have read the above Stipulated Agreement, understand its contents, and do not accept the conditions set forth within it. I request that this matter be scheduled for a formal hearing before the Nevada State Board of Professional Engineers and Land Surveyors.

Signed: _____ Date: _____, 2018
LAZELL PREATOR, P.E.

This Stipulated Agreement is approved by the Nevada State Board of Professional Engineers and Land Surveyors this 8th day of NOVEMBER, 2018. The effective date of this Stipulated Agreement is NOVEMBER 8, 2018.

Date: NOVEMBER 8, 2018.

Signed: 
ROBERT O. LaRIVIERE, PLS,
Chairman

EXHIBIT 2

EXHIBIT 2

STIPULATED AGREEMENT
OF LAZELL PREATOR, P.E.
LICENSE NO. 014982
COMPLAINT NO. 20190008 & 20200003

This Stipulated Agreement is made by and between the Nevada State Board of Professional Engineers and Land Surveyors (the "State Board") and LAZELL PREATOR, licensed as a Professional Engineer in the State of Nevada under License No. PE 014982.

Stipulated Agreement of Facts:

A. Previous 2018 Complaint and Stipulated Agreement

Before setting forth the facts for the two complaints at issue, the following summation of a previous Stipulated Agreement is relevant. A Stipulated Agreement was entered by and between the State Board and Mr. Preator on November 8, 2018 ("2018 Stipulated Agreement"), regarding previous Complaint number 2018006. In the 2018 Stipulated Agreement, Mr. Preator acknowledged violations of NRS Chapter 625 in which his conduct constituted gross negligence, incompetence, or misconduct in the practice of professional engineering and failure to exercise due care and oversight in submitting the plan set to the office of the Deputy Building and Safety Director for the City of Las Vegas.

The facts pertaining to the 2018 Stipulated Agreement involved the filing of a complaint alleging the submission of plans containing the forged signatures of two senior building officials in an attempt to obtain a building permit.

Specifically, on March 7, 2018, the office of the Deputy Building and Safety Director for the City of Las Vegas received a plan set entitled "Calverts Main Extension Plan." The plan set included an irregular and misspelled signature of the City Engineer, Allen Pavelka, with his name signed "Alan" as opposed to the proper spelling "Allen." The plan set further included a signature of a retired Director of Building and Safety, Chris Knight. Mr. Preator asserted that he relied on a

third party, Jorge Guzman, to acquire said signatures, and that said third party, unbeknownst to Mr. Preator, obtained or affixed the forged signatures. Although Mr. Preator denied forging the signatures at issue, he admitted that he is responsible for documents that he seals and signs and that he is responsible to use due care and oversight to manage originals and copies of all documents he has signed and sealed.

In the 2018 Stipulated Agreement, Mr. Preator's Nevada license was placed on probation for twelve (12) months. As part of his probation, Mr. Preator was required to pay certain fines, costs, and fees, and require that he write a Whitepaper on Responsible Charge. The probation under the 2018 Stipulated Agreement has since been completed.

B. Case No. 20190008 – “Forgery Case”

In regard Case No. 20190008, a complaint has been submitted against Mr. Preator by the Executive Director for the State Board on behalf of Marc Kennedy, a professional land surveyor, alleging fraudulent stamping and signing of legal descriptions.

Specifically, On December 18, 2017, Mr. Preator submitted two legal descriptions for a project on Du Fort Avenue to the City of Henderson. Complainant, Mr. Kennedy, inadvertently discovered the two legal descriptions while reviewing projects on the City of Henderson website in August 2019. The two legal descriptions were produced for Preator Consulting by Mr. Kennedy. However, Preator Consulting had not paid for the work, and thus, Mr. Kennedy had not completed the work, as he had not signed or dated the two legal descriptions. The two legal descriptions were, hand signed, dated and submitted to the city on December 18, 2017.

In an effort to explain how the legal descriptions at issue were fraudulently signed, Mr. Preator asserts that he relied on the same third-party blamed in the 2018 Stipulated Agreement, i.e., Jorge Guzman, to obtain the stamp and signature of Mr. Kennedy before submitting the legal

descriptions now at issue. Mr. Preator again asserts that Jorge Guzman must have forged Mr. Kennedy's signature before submitting the legal descriptions to the City of Henderson. Although Mr. Preator denied forging the signatures at issue, he admits that he is responsible for documents that he submits and that he is responsible to use due care and oversight to manage originals and copies of all of said documents.

Mr. Preator has not been able to provide any information or documentation regarding his working relationship with Mr. Guzman, or any evidence that Mr. Guzman exist.

NRS 625.410(2) provides authority for the State Board to administer discipline in Nevada for any gross negligence, incompetency or misconduct in the practice of professional engineering as a professional engineer. NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any provision of NRS Chapter 625. A licensee violates NRS 625.540 by unlawfully practicing land surveying. Specifically, it is unlawful to present or attempt to use, as his or her own, the license or stamp of another person and to impersonate any other licensee of the same or a different name.¹ Additionally, it is a violation of NRS 625.560 to sign a description unless the person holds an unsuspended and unrevoked license as a professional land surveyor.²

¹ NRS 625.540 states in relevant part as follows:

1. It is unlawful for a person ...
 - (b) To present or attempt to use, as his or her own, the license or stamp of another person.
 - ...
 - (d) To impersonate any other licensee of the same or a different name...

² NRS 625.560 states as follows:

It is unlawful for any person to sign or stamp any map, plat, report, description or other document pertaining to the practice of land surveying unless the person holds an unsuspended and unrevoked license as a professional land surveyor.

NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any regulation adopted by the Board. A licensee violates NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct regarding honesty.³ It is a violation of NAC 625.530 for a licensee to fail to act in professional matters as a faithful agent.⁴ A licensee violates NAC 625.540(1) by failing to take care that credit for engineering or land surveying work is given to those to whom credit is properly due and violates NAC 625.540(4) by failing to not maliciously injure the professional reputation, business prospects or practice of another engineer or land surveyor.⁵

Based on the foregoing, Mr. Preator stipulates that he violated NRS 625.410(2), in that his conduct constituted gross negligence, incompetence, or misconduct in the practice of professional engineering. Mr. Preator stipulates that he violated NRS 625.540 by unlawfully practicing land

³ NAC 625.510 states in relevant part as follows:

A licensee shall uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct. In particular, a licensee shall:

1. Be honest and impartial, and serve his or her employer, clients and the public with devotion;

⁴ NAC 625.530 states in relevant part as follows:

In a professional engineer's or land surveyor's relations with his or her employers and clients, he or she shall:

1. Act in professional matters as a faithful agent or trustee for each employer or client.

⁵ NAC 625.540 states in relevant part as follows:

In his or her relations with other engineers or land surveyors, the licensee shall:

1. Take care that credit for engineering or land surveying work is given to those to whom credit is properly due.

4. Not maliciously injure the professional reputation, business prospects or practice of another engineer or land surveyor.

surveying by presenting the license or stamp of another person and by impersonating another licensee. Likewise, Mr. Preator stipulates that he violated NRS 625.560 by signing a description without a license as a professional land surveyor.

Further, Mr. Preator stipulates that he violated NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct regarding honesty. In addition, Mr. Preator stipulates that he violated NAC 625.530 by failing to act in professional matters as a faithful agent. Finally, Mr. Preator stipulates that he violated NAC 625.540 by failing to take care that credit for land surveying work was given to those to whom credit was properly due and by failing to not maliciously injure the professional reputation, business prospects or practice of another engineer or land surveyor.

C. Case No. 20200003 – “Faithful Agent Case”

In regard Case No. 20200003, a complaint has been submitted against Mr. Preator by the Terry Crawford of Quality Auto Body, alleging misconduct and failure to meet terms of a contract.

Specifically, on February 2, 2018, Mr. Crawford contracted with Mr. Preator to provide civil engineering for an auto body repair shop construction project, and paid Mr. Preator a \$7,100 retainer. Per the contract, Mr. Preator was to begin working on the project within two days of receiving the retainer. Between February 2018 and February 2020, no work product was provided to the client nor to the professionals and contractors working on the client's behalf. There were various interactions and requests for updates on the status of the project. Mr. Preator asserts that, during the project, he was unable to speak with the architect on the project, Kevin Thistle, from whom Mr. Preator asserts that he received differing site plans. Nevertheless, Mr. Preator informed

the client that various items were under review by planning authorities, even though they were never actually submitted.⁶

NRS 625.410(2) provides authority for the State Board to administer discipline in Nevada for any gross negligence, incompetency or misconduct in the practice of professional engineering as a professional engineer. NRS 625.410(5) provides authority for the State Board to administer discipline in Nevada for a violation of any regulation adopted by the Board. A licensee violates NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct regarding honesty.⁷ It is a violation of NAC 625.530 when a licensee fails to act in professional matters as a faithful agent.⁸

Based on the foregoing, Mr. Preator stipulates that he violated NRS 625.410(2), in that his conduct constituted gross negligence, incompetence, or misconduct in the practice of professional engineering. Further, Mr. Preator stipulates that he violated NAC 625.510 by failing to uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct regarding honesty. Finally, Mr. Preator stipulates that he violated NAC 625.530 by failing to act in a timely and professional matters as a faithful agent.

⁶ Note: This project was not listed on Mr. Preator's probation reports submitted to the State Board pursuant to his 2018 Stipulated Agreement with the State Board in violation of said 2018 Stipulated Agreement.

⁷ NAC 625.510 states in relevant part as follows:

A licensee shall uphold and advance the honor and dignity of the profession by maintaining high standards of ethical conduct. In particular, a licensee shall:

1. Be honest and impartial, and serve his or her employer, clients and the public with devotion;

...

⁸ NAC 625.530 states in relevant part as follows:

In a professional engineer's or land surveyor's relations with his or her employers and clients, he or she shall:

1. Act in professional matters as a faithful agent or trustee for each employer or client.

...

Pursuant to NAC 625.640, a disciplinary matter may be resolved without a formal hearing by a Stipulated Agreement. To that end, to resolve Complaint Numbers 2019008 and 20200003 now pending, Mr. Preator and the State Board resolve this matter on the following basis:

1. Mr. Preator's Nevada license shall be suspended for thirty-six (36) months following entry of this Agreement, pursuant to NRS 625.410 (2) and NAC 625.530, but with the suspension stayed and probation imposed for the duration of that time period.

2. The stay of Mr. Preator's suspension may be lifted by the State Board upon notice and the opportunity to be heard should Mr. Preator fail to abide by the terms hereof.

3. Mr. Preator's successful completion of probation is expressly conditioned upon his full compliance with the following conditions of probation:

(a) Mr. Preator shall pay a fine of Five Thousand and No/100 Dollars (\$5,000.00) for the Forgery Case and a fine of Two Thousand and No/100 Dollars (\$2,000.00) for the Faithful Agent Case, for a total fine of Seven Thousand and No/100 Dollars (\$7,000.00), within six (6) months of acceptance and execution of this Agreement by the State Board.

(b) Mr. Preator shall pay Mr. Kennedy in full under his contract therewith for Mr. Kennedy's work on the Du Fort project.

(c) Mr. Preator shall pay for cost of hiring a Nevada license professional land surveyor to review, re-stamp and sign the Du Fort legal descriptions.

(d) Mr. Preator shall immediately notify client and the relevant public entity via letter, with copy to the Board, of the necessity of the Du Fort legal descriptions to be re-submitted with lawful stamping and signature.

(e) Mr. Preator shall reimburse in full the deposited amount Mr. Crawford paid for the Autobody Repair Shop project.

(f) Mr. Preator shall pay the State Board Two Thousand Seven Hundred Sixty-Nine and 50/100 Dollars (\$2,769.50) as reimbursement of administrative expenses in this matter, within six (6) months of acceptance and execution of this Agreement by the State Board.

(g) Mr. Preator registering in, paying for and completing an entry level ethics course with Texas Tech University Murdough Center for Engineering Professionalism, and providing proof of completion thereof to Board staff within six (6) months of acceptance and execution of this Agreement by the State Board.

(h) Mr. Preator shall provide to the State Board staff, within thirty (30) days of execution of this agreement by the State Board, a list of projects that were submitted for governmental review in 2017 and 2018, and provide project names, clients, and to which agencies submissions were made. These submissions will be reviewed by State Board staff to determine and identify any other possible statutory and/or regulatory violations.

(i) Mr. Preator shall submit detailed bi-monthly probation reports to the Executive Director of the Nevada Board, which shall report any work completed in Nevada during the previous two (2) month period. A report shall be filed even if no work is performed in Nevada during the previous two (2) month period. The first report shall be due within two (2) months of the effective date of this Stipulated Agreement. Each report shall include client contact information and a copy of the contract executed for any work in Nevada, including the scope of work detail.

(j) Mr. Preator shall provide proof of the completion of thirty (30) professional development hours that are required on a biennial basis for license renewal, pursuant to NAC 625.430 and NAC 625.480.

4. Mr. Preator understands that he must accept this Stipulated Agreement before it will be presented to the Board for consideration.

5. Mr. Preator understands that this Stipulated Agreement is subject to the approval of the State Board and has no force or effect until a final decision is rendered by the State Board.

6. The imposition of discipline set forth in this Stipulation does not limit the powers of the State Board to impose discipline upon Mr. Preator on matters not yet presented to the Board.

7. Mr. Preator acknowledges that he has the following rights, among others:
- (a) The right to a formal fact-finding hearing before the State Board;
 - (b) The right to counsel;
 - (c) The right to compel testimony of witnesses at hearing;
 - (d) The right to cross-examine witnesses of the prosecution at hearing; and
 - (e) The appellate right of judicial review of the State Board's decision resulting from a formal hearing.

8. By entering into this Stipulated Agreement, Mr. Preator hereby waives the above-stated hearing rights, as well as any corresponding appellate rights, should this Agreement be approved and executed by the State Board.

9. Mr. Preator is entering this Stipulated Agreement upon his own volition, with full opportunity to consult legal counsel.

10. This Stipulated Agreement contains the entire agreement between the parties. Mr. Preator is not relying on any other agreement or representation, verbal or otherwise. This Agreement shall be effective upon approval and execution by the State Board.

I, LAZELL PREATOR, have read the above Stipulated Agreement, understand its

contents, and accept the conditions set forth within it.

Signed: [Signature] Date: 27th November, 2020
LAZELL PREATOR, P.E.

I, LAZELL PREATOR, P.E., have read the above Stipulated Agreement, understand its contents, and do not accept the conditions set forth within it. I request that this matter be scheduled for a formal hearing before the Nevada State Board of Professional Engineers and Land Surveyors.

Signed: _____ Date: _____, 2020
LAZELL PREATOR, P.E.

This Stipulated Agreement is approved by the Nevada State Board of Professional Engineers and Land Surveyors this 14 day of January, 2021. The effective date of this Stipulated Agreement is 21, 2021.

Date: Jan 21, 2021, 2020.
KP

Signed: [Signature]
KAREN D. PURCELL, PE.
Chairwoman

EXHIBIT 3

EXHIBIT 3

BEFORE THE STATE OF NEVADA
BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

IN THE MATTER OF

LAZELL PREATOR, P.E.

REVIEW OF COMPLIANCE

DECISION AND ORDER

WITH STIPULATED

AGREEMENT

The above matter was heard before the State of Nevada Board of Professional Engineers and Land Surveyors ("State Board") on January 19, 2023, at the office of the State Board, Las Vegas, Nevada. LAZELL PREATOR, P.E. ("Mr. Preator") was present at the hearing and was not represented by counsel. The Executive Director of the State Board, Patty Mamola, P.E., scheduled the hearing for the State Board to determine if Mr. Preator had complied with the terms of the Stipulated Agreement entered by him with the State Board, dated January 14, 2021 ("the Stipulated Agreement").

Procedural History

1. Mr. Preator is a licensed Professional Engineer in the State of Nevada.
2. On or about January 14, 2021, the State Board entered into the Stipulated Agreement with Mr. Preator to resolve two (2) pending disciplinary matters before the State Board, Complaint Numbers 20190008 and 20200003.
3. Pursuant to the Stipulated Agreement, Mr. Preator agreed to his Nevada Professional Engineering license to be suspended for thirty-six (36) months, but with the suspension stayed and probation imposed for same said thirty-six (36) month period.
4. Pursuant to the Stipulated Agreement, the stay of Mr. Preator's license suspension may be lifted, upon notice and the opportunity to be heard, should Mr. Preator fail to abide by the terms of the Stipulated Agreement.

1 5. Mr. Preator's successful completion of his probation is expressly conditioned on his full
2 compliance with a variety of conditions of probation; including, in relevant part:

- 3 a. payment of Seven Thousand and No/100 Dollars (\$7,000.00) by July 21, 2021.
4 b. submitting bi-monthly probation reports to the Executive Director of the State
5 Board, reporting any work completed in Nevada during the previous two (2)
6 month period, and shall be filed even if no work is completed in Nevada by Mr.
7 Preator.

8 6. Via Certified Mail, dated December 22, 2021, Mr. Preator was provided notice that a
9 review of the Stipulated Agreement would be conducted at the January 20, 2022 meeting of the State
10 Board. Mr. Preator appeared before the State Board at that time. The State Board found that Mr.
11 Preator was out of compliance with the Stipulated Agreement, but Mr. Preator assured the State Board
12 that he would immediately bring his performance under the Stipulated Agreement into compliance,
13 albeit late. As such, the State Board did not lift the stay on the suspension of Mr. Preator's license.

14 7. Mr. Preator subsequently made efforts to come into compliance with the Stipulated
15 Agreement, by making payments of Four Hundred and No/100 Dollars (\$400.00) per month towards
16 the fine amount, and bringing his bi-monthly probation reports up to date.

17 8. Mr. Preator's monthly payments towards the fine amount, and submission of bi-annual
18 probation reports, continued until August of 2022, but thereafter ceased.

19 9. Mr. Preator was again provided written notice of an opportunity to be heard, via
20 certified letter dated December 2, 2022, that the Stipulated Agreement would be brought up for a
21 review of compliance by the State Board of Mr. Preator's compliance with the terms of the Stipulated
22 Agreement, at its January 19, 2023 State Board meeting.

23 **Findings of Fact**

24 10. Mr. Preator paid the delinquent fine payment to date and submitted the delinquent bi-
25 annual probation reports to State Board staff the day before the January 19, 2023 hearing on the matter.

26 11. Mr. Preator testified to the Board that he would put controls in place to prevent further
27 delinquencies under the Stipulated Agreement, but the State Board determined that the successive
28

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1 delinquencies in making fine payments and filing bi-monthly probation reports constituted ongoing
2 violations of the Stipulated Agreement.

3 **Conclusions of Law**

4 12. The Board has the authority to lift the stay of the suspension of Mr. Preator's license, as
5 per the expressed terms of the Stipulated Agreement, should Mr. Preator fail to abide by the terms
6 thereof. (The Stipulated Agreement, page 7, item #2)

7 THEREFORE, ON MOTION DULY MADE, SECONDED AND ADOPTED, THE STATE
8 BOARD ORDERED THAT:

9 1. Based upon Mr. Preator's failure to abide by the terms of the Stipulated Agreement, the
10 stay of the thirty-six (36) month suspension of Mr. Preator's Nevada Professional Engineering License
11 Number 014982 is lifted, and, thus, Mr. Preator's Nevada Professional Engineering License is
12 suspended until January 14, 2024.

13
14 2. That imposition of this Decision and Order does not limit the powers of the State Board
15 to impose discipline on Mr. Preator independent of this action and/or for matters not yet presented to
16 the State Board.

17 This Decision and Order is effective and is executed by the Chairman of the State Board this

18 31ST day of JANUARY, 2023.

20 STATE OF NEVADA BOARD OF
21 PROFESSIONAL ENGINEERS AND
22 LAND SURVEYORS

23 By: 

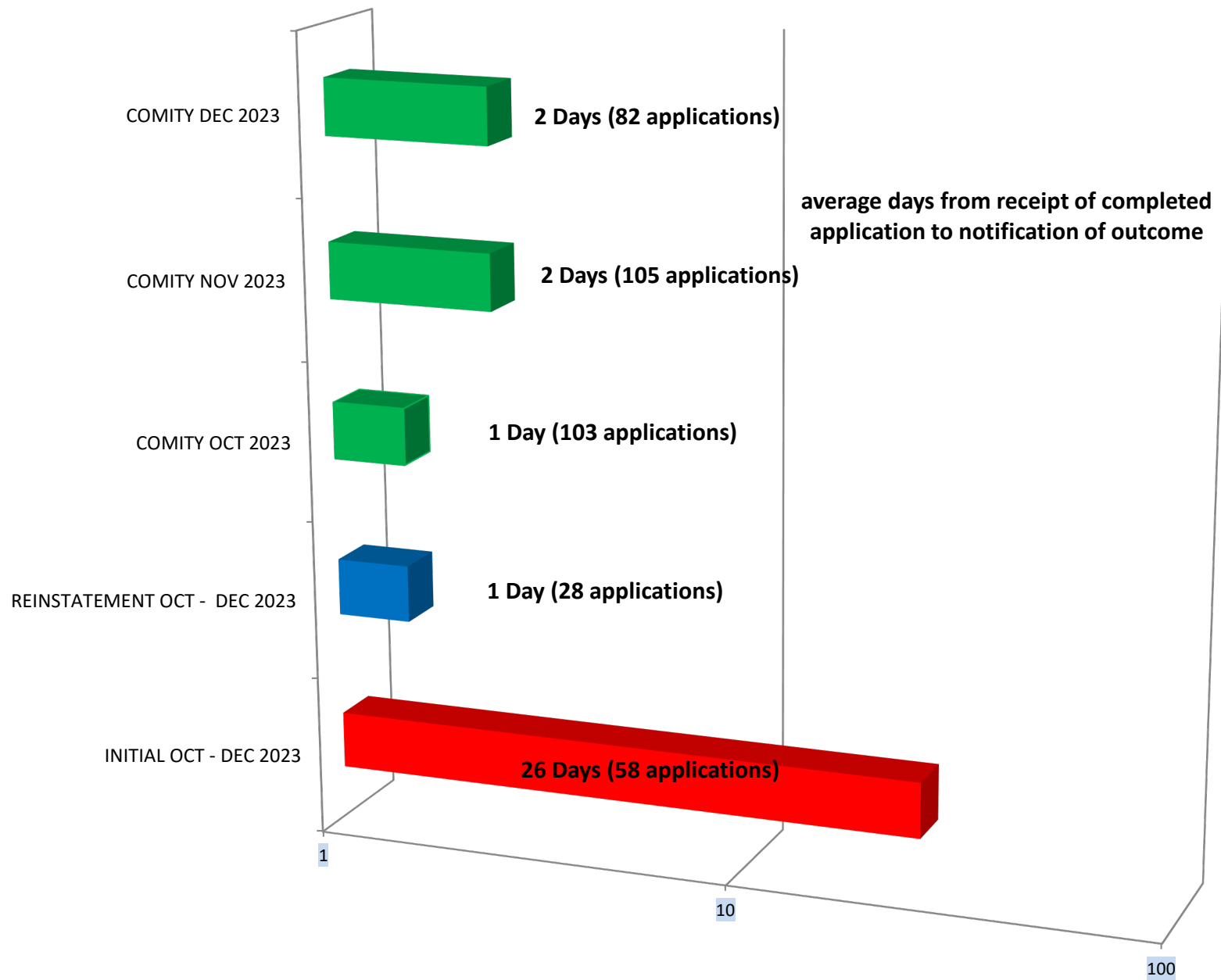
24 MICHAEL KIDD, PLS, Chairman
25
26
27
28

13. Stipulated Agreement for--

[Not available at time board packet was published.]

14. Administrative Report

14.a. Approved Licensees Report



14.b. 2021-2025 Strategic Plan



STRATEGIC PLAN UPDATE

Executive Summary

Approved November 12, 2020

UPDATED Fall 2020

EXECUTIVE SUMMARY

STRATEGIC PLAN UPDATE ~ SEPTEMBER 11, 2020

The Nevada Board of Professional Engineers and Land Surveyors developed a comprehensive Strategic Plan in March 2017. The plan was created using a 10-30 year planning horizon based on the board's core ideology consisting of a core purpose and core values.

Because the Strategic Plan had been developed in 2017, the board felt it was timely to reconsider its contents. The Board met September 11, 2020 to comprehensively review its Strategic Plan and consider any needed updates to that plan.

At the September 11, 2020 Strategic Planning Session, the board reaffirmed that the goals developed in the current Strategic Plan based on a 10-30 year planning horizon were still relevant. The session then focused on review and refresh of strategies. It was agreed that tactics and action items would be driven by the strategies and developed by the board and its committees at future meetings.

This document restates the board's goals for its updated Strategic Plan and captures the board's strategies for the next 3-5 year planning horizon.

EXECUTIVE SUMMARY

PURPOSE ~ MISSION ~ CORE VALUES

Purpose

The purpose of the board, as stated in Nevada Revised Statute 625.005, is to safeguard life, health and property and to promote the public welfare by providing for the licensure of qualified and competent professional engineers and professional land surveyors.

Mission

Founded on the board's purpose, the board's mission is to uphold the value of professional engineering and land surveying licensure by assessing minimum competency for initial entry into the profession, and to ensure ongoing standard of professionalism by facilitating compliance with laws, regulations, and code of practice; and to provide understanding and progression in licensure by openly engaging with all stakeholders.

Core Values

The board's core values are:

Integrity

Transparency

The core values were identified by board members and staff during the strategic planning sessions as guiding principles in the performance of their duties. A commitment was made to deliver on these values and provide governance that is ethical, honest, and consistent, and to function on a daily basis with accessibility and openness that is without obstruction.

3-5 YEAR PLANNING HORIZON

~ OUTCOME-FOCUSED GOALS AND STRATEGIES ~

The following thinking represents the organization's goals for the next 3-5 years. These **Goals** are outcome-oriented statements that represent what will constitute the Nevada board's future success. The achievement of each goal will move the organization towards the realization of its Envisioned Future. The **Strategies** reflect the broad range of direction that will be undertaken to change the existing conditions in order to achieve the goal – they drive **Tactics** -- the type of work and initiatives that will need to be undertaken to achieve the goal.

Strategies considered at the the September 11, 2020 strategic planning session discussion were presented for board consideration November 12, 2020. New or updated strategies are in bold text.

Outcome-Focused Goals

1. Outreach

The general public, prospective licensees and other key stakeholders have a greater understanding that engineering and surveying licensure are essential to safeguarding public health, safety and welfare.

2. Licensure

The demonstrated value of licensure results in continued growth in the number, quality and diversity of licensed engineers and surveyors practicing in Nevada.

3. Regulation

Nevada regulations are compatible with and reflective of the current state of practice in engineering and surveying and are in alignment with Nevada's economic development strategy.

4. Operational Excellence

The Nevada Board's efficient and effective use of technology and streamlined systems, processes and procedures result in high levels of satisfaction by all stakeholders.

Goal 1: Outreach

The general public, prospective licensees and other key stakeholders have a greater understanding that engineering and surveying licensure are essential to safeguarding public health, safety and welfare.

Strategies

1. Increase legislators understanding of criticality of services provided by the board and professional engineers/professional land surveyors
2. **Evolve technical capability and expand social media presence**
3. Increase visibility of the Board
4. **Sustain appropriate allocation of resources for effective content development**

Goal 2: Licensure

The demonstrated value of licensure results in continued growth in the number, quality and diversity of licensed engineers and surveyors practicing in Nevada

Strategies

1. Increase/stress the importance of licensure to university level students
2. Increase the public's knowledge about the value of licensure
3. Increase kids' knowledge of what engineers/land surveyors do
4. **Continuously work to improve the process and portability of licenses**
5. Provide options to meet land surveyor educational requirements
6. **Increase knowledge of the quality of experience required for licensure to potential licensees**

7. **Maintain relevancy of engineering licensure, specifically as it relates to emerging technologies**

Goal 3: Regulation

Nevada regulations are compatible with and reflective of the current state of practice in engineering and surveying and are in alignment with Nevada's economic development strategy.

Strategies

1. **Maintain currency and applicability of statutes and regulations**
2. **Increase relationships with key stakeholders**
3. **Increase awareness of new/emerging technologies in relation to statutes and regulations**

Goal 4: Operational Excellence

The Nevada Board's efficient and effective use of technology and streamlined systems, processes and procedures result in high levels of satisfaction by all stakeholders.

Strategies

1. **Maintain effective staff capacity**
2. **Maintain business plan for resource allocation to support board goals**
3. **Maintain effective office and administrative processes**
4. **Build a data collection strategy to ensure we have data needed for effective decision making**
5. **Increase transparency and communication with stakeholders of board functions, operations, and initiatives**

14.c. NCEES

15. Committee Reports

15.a. Administrative Procedures Oversight Committee

15.a.i. Draft Personnel Employee Handbook

Welcome to the Nevada Board of Professional Engineers and Land Surveyors!

It is our honor to welcome you to the Nevada Board of Professional Engineers and Land Surveyors and to reaffirm the board's commitment to fostering a culture of excellence, collaboration, and continuous growth.

As a state regulatory board, funded solely by the fees we collect, we are resolute in our approach to operating with a customer-focused business attitude. It is our unwavering commitment to not only meet but exceed the needs of our constituents by continually refining and improving our statutory and regulatory requirements and the board's operational processes. We aim to strike a harmonious balance between automating our services and personalizing customer service, recognizing the value of technological advancements while preserving the invaluable human touch that distinguishes our services.

At the very core of our organization lies the profound acknowledgment that our staff constitutes the heart and soul of our success. We take immense pride in being recognized as one of the nation's leading regulatory boards, and we owe this distinction unequivocally to the enthusiasm and commitment exhibited by each member of our team.

This manual is the board's commitment to supporting you in your roles, fostering a collaborative, inclusive, and growth-oriented environment.

As we embark on this collective journey of growth and excellence, we extend our deepest gratitude for your continued dedication and commitment. Together, let us embrace the opportunities ahead and continue to uphold the distinguished legacy of the Nevada Board of Professional Engineers and Land Surveyors.

With sincere appreciation,

Angelo Spata, PE
Board Chair

PERSONNEL POLICIES

NEVADA STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

("THE BOARD")

(Rev. August-2023)

1. GENERAL PROVISIONS

1.1. Purpose

These policies are established to carry out the personnel resolution of the **Nevada State Board of Professional Engineers and Land Surveyors ("State Board")**, as employer, personnel ordinance, or intent of the State Board to adopt uniform personnel policies that will enable each employee to make the fullest contribution to the programs and services of the **State Board**. Each employee is responsible for reviewing and complying with the **State Board's** personnel policies.

The **State Board** retains the sole right to manage its affairs and direct its workforce within the existing framework of law (federal, state, and local), but not limited to the right to plan, direct, and control its operations: to determine the location of its facilities; to determine working hours; to decide the types of services to be provided and the manner of providing them; to decide the work to be performed; to decide the method and place of providing its services; to determine the schedules of work; to hire, layoff, assign, transfer, and promote employees; to determine the qualifications of employees; to determine and re-determine job content; to determine the starting and quitting times; to make such reasonable rules and regulations as it may from time to time deem best for the purpose of maintaining order, safety, and/or effective operations.

1.2 Scope

Nothing in these policies is intended to supersede applicable state or federal laws or administrative regulations/ordinances related to personnel matters.

1.3. Administration

The **State Board** reserves the right to change these personnel policies at any time. Nothing contained in these policies is intended to confer any property right in continued employment or imply a contract of employment.

All employees of the **State Board** are expected to read and familiarize themselves with the contents of these policies. After receiving and reviewing these policies, each employee is expected to sign an acknowledgment form. The employee must return the signed acknowledgment form to the Executive Director of the State Board ("Executive Director") for inclusion into his/her personnel file. Employees who fail to comply with these policies may be subject to disciplinary action, up to and including termination.

All changes, revisions, additions, and notices of deletions to these policies will be made available to all employees.

1.4. Administrative Directive

The Executive Director shall have the authority and the duty to develop and disseminate administrative directives, interpretive memoranda, and other administrative procedures to execute these policies, and to implement the **State Board's** personnel program on a consistent basis.

1.5. Change of Address

It is the responsibility of each employee to keep the **Executive Director** informed, in writing, of the employee's current address, telephone number, change of name, and any other information relating to employment status.

1.6. Personnel Files

State Board maintains job-related information for each employee throughout the course of his/her employment. It is State Board's policy to operate effectively and efficiently, in a manner that encourages transparency in government in compliance with all applicable laws, and in so doing to protect confidential information from disclosure to the extent allowed by law. To the extent allowable by law, including specifically but without limitation Nevada's Public Records Act, personnel files are confidential to the extent such files contain personal privacy information subject to a nontrivial privacy interest. Such information is subject to nondisclosure. To that end, State Board strives to maintain accurate and complete personnel records. Employees must promptly notify State Board of any changes to their personal information, such as address, telephone number, legal name, marital status, and number of dependents. Records are retained and destroyed in accordance with State Board policies as well as all applicable laws governing record retention.

2. EMPLOYEE RELATIONS

2.1. Fair Employment Practices

The **State Board** recognizes the fundamental rights of applicants and employees to be assessed on the basis of merit. Recognition of seniority and current employment with the **State Board** may also be considered. Therefore, it is the policy of the **State Board** to provide equal employment opportunity for all applicants and employees. The **State Board** does not sanction or tolerate discrimination in any form on the basis of any protected class including race, color, religion, age, gender, pregnancy, sexual orientation, national origin, ancestry, disability, veteran status, domestic partnership, genetic information, gender identity or expression, political affiliation, membership in the Nevada National Guard, or any other class that becomes protected by federal and/or state law.

2.2. ~~Anti-Harassment~~Work Environment Obligations

2.2.1. Policy

State Board promotes a productive work environment and does not tolerate verbal, physical, written, or graphical conduct/behavior(s) that harasses, disrupts, or interferes with another's work performance or that creates an intimidating, offensive, or hostile environment based on that person's protected class membership.

2.2.2. Prohibited Conduct/Behavior(s)

The **State Board** will not tolerate any form of mis-conduct or harassment in or related to the workplace or its function, including any conduct/behavior(s) on the part of employees, volunteers, clients, customers, the public, applicants, interns, licensees, vendors, contractors, etc., that impairs an the Board's and/or an employee's ability to perform his/her designated functions and/or duties. Examples of prohibited conduct/behavior(s) include, but are not limited to:

- *Offensive verbal communication* including slurs, jokes, epithets, derogatory comments, degrading or suggestive words or comments, unwanted sexual advances, invitations, or sexually degrading or suggestive words or comments.
- *Offensive written communication* including notes, letters, notices, emails, texts, or any other offensive message sent by electronic means.
- *Offensive gestures, expressions and graphics* including leering, obscene hand, finger, or body gestures, sexually explicit drawings, derogatory posters, photographs, cartoons, drawings, or displaying sexually suggestive objects or pictures.
- *Physical contact* when the action is unwelcomed by recipient including brushing up against someone in an offensive manner, unwanted touching, impeding or blocking normal movement, or interfering with work or movement.
- Expectations, requests, demands, or pressure for sexual favors.
- Failure to refusal to satisfactorily perform the duties that are part of the employee's job, including below-average work quality or quantity, excessive

- absenteeism or tardiness and/or failure to follow instructions or company procedures or policies.
- Insubordination and disruptive conduct, in or relate to the workplace or its function, including, but not limited to: failure or unreasonable delay in carrying out instructions, discourteous, abusive, obscene, or offensive conduct or language towards the public, applicants, interns, licensees, governmental contracts, supervisors, or other employees, poor attitude, including lack of cooperation and/or rudeness and threatening or inflicting bodily harm on another person.
- Dishonesty or abuse of State Board policies, including, but not limited to, failure to give complete or accurate information for personnel records, falsification of timesheets and/or making false statements about the State Board.

2.3. Employee Bullying

2.3.1. Definition

The **State Board** defines bullying as repeated mistreatment of one or more persons by one or more perpetrators that takes one of the following forms:

- Verbal mistreatment;
- Offensive conduct/behaviors (including nonverbal, physical, and cyber-bullying) which are threatening, humiliating, or intimidating; or
- Work interferences, such as sabotage, which prevents work from getting done.

2.3.2. Purpose

The purpose of this policy is to communicate to all employees, including supervisors/managers, that the **State Board** will not tolerate bullying behavior. Employees found in violation of this policy may be subject to disciplinary action, up to and including termination.

2.3.3. Prohibited Behaviors/Conduct

The **State Board** considers the following types of behavior/conduct examples of bullying (this list is not all-inclusive):

- *Verbal Bullying* including slandering, ridiculing or maligning an employee or his/her family; persistent name calling which is hurtful, insulting, or humiliating; yelling, screaming, and cursing; chronic teasing; belittling opinions or constant criticism.
- *Physical Bullying* including pushing, shoving, kicking, poking, tripping, assault or threat of physical assault, damage to an employee's work area or property.
- *Nonverbal Bullying* including nonverbal threatening gestures or glances which convey threatening messages; threatening actions; socially or physically excluding or disregarding a person in a work-related activity.
- *Cyber-Bullying* including repeatedly tormenting, threatening, harassing, humiliating, embarrassing, or otherwise targeting an employee using email,

instant messaging, text messaging, social media, or any other type of digital technology.

- *Workplace Interference* including sabotaging which prevents work from getting done; deliberately tampering with a person's work area or property; unreasonably assigning menial tasks outside of a person's normal job duties.

2.4. Dealing w/Allegations of Prohibited Conduct/Behavior(s)

2.4.1. Process

An employee or applicant who feels subjected to any form of prohibited conduct/behavior(s) as described in the Anti-Harassment or Employee Bullying policies by another (e.g., employee, licensee, vendor, volunteer, contractor, etc.), as well as an employee or applicant who has witnessed another employee, client or member of the public being subjected to prohibited conduct/behavior(s), has an affirmative duty to bring the situation to the attention of the **State Board**.

2.4.2. Employee Responsibilities

1. An employee who believes they personally are being or have been subjected to prohibited conduct/behavior(s) and/or are the target of any form of prohibited conduct/behavior(s), or have witnessed any other employee being subjected to these behaviors, are encouraged to inform the alleged harasser/bully that the behavior/conduct is unwelcome and must stop.
2. If the employee feels uncomfortable in speaking directly to the alleged harasser/bully or if the employee requested the prohibited conduct/behavior(s) to cease, but the request did not produce the results desired, the employee should report the conduct/behavior(s) as soon as possible to any supervisor/manager, or the executive director.
3. An employee who believes the Executive Director has engaged in prohibited conduct/behavior(s), or has not fully addressed concerns that have been brought to the Executive Director's attention by the employee, should bring such concerns to the attention of the chairperson of The Board, who will designate an objective person to conduct an investigation of such allegations. Employees may also report the conduct/behavior(s) to the **State Board's** attorney.
4. An employee who witnesses or obtains information regarding prohibited conduct/behavior(s) by his/her immediate supervisor is required to report the incident to the Executive Director or as provided in 2.4.2(3) above.

2.4.3. Supervisor/Manager Responsibilities

Regardless of whether the employee involved is in the supervisor's or manager's department, and regardless of how s/he became aware of the alleged prohibited conduct/behavior(s), all supervisors and managers must immediately report all allegations

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or complaints or observations of such conduct/behavior(s) to the Executive Director, or as provided in 2.4.2(3) above should the allegation or complaint be against the Executive Director. The information reported should include:

- The persons(s) involved, including all witnesses;
- A written record of specific conversations held with the accused and any witnesses; and
- All pertinent facts, including date(s), time(s), and locations(s).

A supervisor's/manager's failure to immediately report such activities, complaints, or allegations will result in discipline, up to and including termination.

2.4.4. Investigation

1. Upon being made aware of allegations or complaints of prohibited conduct/behavior(s), the **State Board** will ensure that such allegations or complaints are investigated promptly. The **State Board** treats all allegations or complaints seriously and requires all employees to be candid and truthful during the investigation process.
2. The **State Board** will make efforts to ensure that all investigations are kept as confidential as reasonably possible. Employees will be required to refrain from discussing the subject content with other employees or persons who may have information pertinent to the investigation throughout the course of the investigation. If it is determined that a violation of this policy has occurred, the employee may be subject to disciplinary action up to and including termination. The **State Board** will also initiate action to deter any future prohibited conduct/behavior(s) from occurring.

2.4.5. Prohibition Against Retaliation

The **State Board** will not tolerate any retaliation against an employee who exercises his/her rights under this policy. Employees will not be disciplined or otherwise penalized for raising in good faith a work-related concern or for taking the appropriate steps to pursue the concern.

2.5. Drug- and Alcohol-Free Workplace

2.5.1. Policy

This drug- and alcohol-free workplace policy applies to volunteers as well as employees.

1. The **State Board** is committed to:
 - Maintaining a safe and healthy workplace for all employees and volunteers;
 - Assisting employees or volunteers who recognize they have a problem with drugs, prohibited substances, or alcohol in receiving appropriate treatment;
 - Periodically providing employees and volunteers with information about the dangers of workplace drug use; and
 - When appropriate, taking disciplinary action for failure to comply with this policy.

2. The **State Board** strictly prohibits the following behavior:

a. The use, sale, attempted sale, manufacture, attempted manufacture, purchase, possession or cultivation, distribution and/or dispensing of illegal drugs or prohibited substances by an employee in the workplace, or being under the influence thereof while being obligated to carry out obligations of employment, unless otherwise provided by law. For the purpose of this policy, illegal drugs include those classified as such under local, state, or federal laws.

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2.6. Prohibition of Workplace Violence

The **State Board** is committed to providing for the safety and security of all employees, customers, visitors, and property. The **State Board** will not tolerate any form of workplace violence including acts or threats of physical violence, intimidation, harassment, and/or coercion, which involve or affect the **State Board**, or which occur on property owned or controlled by the **State Board**, during the course of the employee's performance of job duties, which affect the **State Board's** business, or which occur at an State Board sponsored or commissioned event or social gathering.

3. EMPLOYMENT

Upon initial employment with the Board, all employees are considered a new hire required to serve a probationary period of six months. The anniversary date of employment will be 1 (one) year from the first day of employment. Employment is deemed, to the extent allowed by law, "at will" employment.

The Executive Director shall maintain an open door policy for employees to discuss working conditions and office procedures. The Executive Director will review the work performance of each employee. As part of the review, the Executive Director will meet with each employee to discuss performance and achievement of any goals established the prior year. In cooperation with the employee, the Executive Director will encourage the setting of goals for the ensuing year. The State Board shall conduct an annual review of the Executive Director.

Any employee disciplinary action will be discussed in a meeting with the employee. A memorandum of the disciplinary action will be prepared by the Executive Director and signed by the employee. A copy of the memorandum will be given to the employee, and a copy will be placed in the employee's personnel file.

The Executive Director will include any salary adjustments for employees in the annual budget to be presented at the May meeting of the Board for review and approval. Approved salary adjustments will be effective the 1st day of July for cost of living and on the employee's anniversary date for merit salary increases.

The Executive Director is a salaried employee who serves at the pleasure of the Board; all other employees are hourly employees.

All employees are paid bi-weekly, every other Friday. Should a payday fall on a holiday, employees are paid on the day preceding.

Hourly employees required to work overtime shall be paid at the rate of time and one half. Overtime is any time greater than 40 hours within a calendar week, exclusive of holidays and approved leave time. The Executive Director must approve all overtime in advance.

Group Health Insurance is provided by the Board through the Public Employees' Benefits Program (PEBP). Benefits include medical, pharmacy, and dental. The Board pays 100% of the employee premium. Employees are responsible for dependent premiums.

Employees working in a full-time position are eligible for group health insurance benefits on their date of hire if that date is on the first day of the month; otherwise, benefits become effective on the first day of the month immediately following the date of hire.

New employees working a full-time schedule will earn 6.67 hours of vacation leave for each month of continuous full-time service (80 hours per year). After six months of full-time service an employee will have accrued 40 hours of vacation leave and will be eligible to use accrued annual leave. The Executive Director must pre-approve annual leave.

After five years of continuous service, employees will earn up to 10 hours of vacation leave per month (120 hours per year), and, with 10 years of continuous service, 13.33 hours of leave per month (160 hours per year).

Part-time employees will earn a prorated amount of annual leave based on full-time equivalent service.

Annual leave that is accrued in excess of 30 working days must be used by January 1st, after which it will be forfeited. To avoid forfeiture, a request for permission to take annual leave must be submitted to the Executive Director by October 15th. Annual leave in excess of the 30 working days, which is requested by this date but denied in writing, is eligible for payment. Payment for unused leave will be made by January 31st.

If an employee discontinues employment with the Board, and has worked at least six months, the employee will be paid for any accumulated unused annual leave.

Paid employee holidays are: New Year's Day, Martin Luther King Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, and Christmas Day.

All regular full time employees are granted 80 hours per year of PTO (personal time off). This is in addition to regular vacation benefits. PTO can be used in minimum increments of one hour. Each eligible employee will be given 80 hours of PTO effective January of each calendar year. Any unused PTO hours at the end of the year will not be carried over to the next calendar year. PTO should be requested in advance similar to vacation. However, PTO may also be used in case of illness, family emergency, etc. Unused PTO will not be paid to employees while they are employed or upon termination of employment.

Maternity leave is not a special type of leave, but may consist of a combination of sick leave, annual leave, compensatory time, and leave without pay.

The State Board may choose to contribute to an IRA-SEP retirement program for Board employees. The amount of that contribution may equal 0 to 25% of the employee's wages.

The amount will be at the Board's discretion. The percentage contributed will be equal for all employees.

Office hours are 8 AM to 5 PM, Monday through Friday. Employee lunch hours shall be staggered so the office remains open during designated office hours.

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15.a.ii. Recruitment,
Process, Timeline, and
Job Announcement for
Filling the Vacant
Executive Director
Position

15.a.iii. Consideration of Board Appointment of an Interim Executive Director

15.b. Legislative Committee

15.c. Professional Association Liaison Committee

15.d. Public Outreach Committee

15.e. PLS Standards of Practice Subcommittee

16. Regulation Updates

16.a. Regulation Changes to Contracts and PLS Standards of Practice

Proposed edits to NAC 625.545

NAC 625.545 Written contract required for each client. (NRS 625.140) Before performing any work, a licensee shall enter into a written contract with each client for whom the licensee will perform work. The written contract must include, without limitation:

1. Provisions specifying:
 - (a) The scope of the work;
 - (b) The cost for completion of the work; and
 - (c) The anticipated ~~date~~ *schedule* for completion of the work.
2. A disclosure as to whether the licensee currently maintains a policy of professional liability insurance.

(Added to NAC by Bd. of Professional Eng'rs & Land Surv. by R152-09, eff. 10-15-2010; A by R085-18, 1-30-2019)

Proposed edits to NAC 625.655

NAC 625.655 Applicability of statutes and regulations. (NRS 625.140, 625.250) When engaging in the practice of land surveying in this State, a professional land surveyor ~~shall~~ *must* apply all applicable statutes and regulations. ~~in addition to the minimum standards of practice for professional land surveyors established in NAC 625.651 to 625.795, inclusive.~~

(Added to NAC by Bd. of Reg'd Professional Eng'rs & Land Surv., eff. 7-18-88; A 7-10-92; A by Bd. of Professional Eng'rs & Land Surv., 11-14-97)

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Proposed edits to NAC 625.666

NAC 625.666 Positional certainty: Horizontal and vertical components of certain land surveys. (NRS 625.140, 625.250)

1. *Surveying and mapping accuracy standard must be at the 95 percent confidence level.* The requirements for positional certainty for the horizontal component of land boundary, ~~topographic, control and geodetic~~ surveys are as follows:

Type of Survey	Positional Certainty	
	Meters	U.S. Survey Feet
Land Boundary Surveys		
High Urban.....	±0.02 m	±0.05/10 ft
Low Urban.....	±0.04 m	±0.15 ft
Suburban.....		±0.15 ft
High Rural.....	±0.1 m	±0.3 ft
Low Rural.....	±0.15 m	±0.5 ft
Control and Geodetic Surveys		
Precise Measurement Studies.....	±0.001 m to ±0.01 m	±0.002 ft to ±0.03 ft
State Network.....	±0.02 m	±0.05 ft
County Network.....	±0.04 m	±0.15 ft
Local Network.....	±0.06 m	±0.2 ft
Photogrammetric Control.....	±0.06 m to ±1 m	±0.2 ft to ±3 ft
Topographic Surveys		
Engineering Design Surveys.....	±0.01 m to ±0.1 m	±0.03 ft to ±0.3 ft
Planning Study Surveys.....	±0.02 m to ±0.05 m	±0.05 ft to ±0.15 ft
Utilities Mapping.....	±0.15 m	±0.5 ft
Feature Mapping.....	±0.3 m	±1 ft
Resource Mapping.....	±0.5 m to ±100 m	±1.5 ft to ±330 ft

2. The requirements for positional certainty for the vertical component of land boundary, ~~control, geodetic and topographic~~ surveys are as follows:

Type of Survey	Positional Certainty	
	Meters	U.S. Survey Feet
Land Boundary Surveys.....	±0.05 m	±0.15 ft
Control and Geodetic Surveys	-	-
Other Than	-	-
Photogrammetric Control	-	-
Surveys.....	±0.005 m to ±0.03 m	±0.02 ft to ±0.1 ft
-	-	-
Photogrammetric Control	-	-
Surveys.....	±0.03 m to ±0.5 m	±0.1 ft to ±1.5 ft
-	-	-
Topographic Surveys.....	National Map Accuracy Standards	

3. ~~For the purposes of this section, the National Map Accuracy Standards, as they existed on November 14, 1997, are hereby adopted by reference. A copy of the National Map Accuracy Standards may be obtained from the United States Geological Survey, Department of the Interior, 12201 Sunrise Valley Drive, Reston, Virginia 20192, at no cost.~~ *Positional requirements as stated in section 1 and 2 above, must not be confused with the acceptance or rejection of existing controlling monuments for boundary determination.*

4. *For control surveys, the surveyor must document the horizontal and vertical datum, the coordinate system, as well as the reference points used to establish the control network, for boundary, topographic or construction surveys.*

5. *For topographic surveys that are intended to show the contour of the earth's surface, and/or the position of fixed objects, the surveyor must select the equipment and procedures to obtain the horizontal and vertical positional accuracy appropriate for the project. Typically, the positional accuracy will align with industry standards.*

6. *The documentation for the level of precision and positional accuracy of a survey product, map, plat or survey must be retained by the professional land surveyor.*

(Added to NAC by Bd. of Professional Eng'rs & Land Surv., eff. 11-14-97)

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Proposed edits to NAC 625.670

NAC 625.670 Required research, identifications, measurements and computations. (NRS 625.140, 625.250) In conducting a land boundary survey, a professional land surveyor ~~shall~~ *must*:

1. Search pertinent documents, including, but not limited to, maps, deeds, title reports, title opinions and the records of the U.S. Public Land Survey System.
2. Thoroughly examine the information and data acquired, *and consider relationships and details such as:*
 - (a) Junior/senior property rights;*
 - (b) Retracement of the original survey;*
 - (c) Evidence provided by existing records; and*
 - (d) Proper application of the hierarchy of calls and the order of importance or priority of conflicting calls.*
3. Diligently search for and identify monuments and other physical evidence, including, *but not limited to, evidence of easements, physical occupation lines, and possible observed encroachments*, which could affect the location of the boundaries of the property being surveyed.
4. Conduct field measurements necessary to relate adequately the position of all apparent evidence pertinent to the boundaries of the property being surveyed.
5. Make computations to verify the correctness of field data acquired and confirm that results of measurements are within acceptable limits of tolerance. Computations must be made to determine the relative positions of all found evidence. *When a material discrepancy is found between the record and measured information, the measured information must be shown on the survey map in addition to all the pertinent record information.*

(Added to NAC by Bd. of Reg'd Professional Eng'rs & Land Surv., eff. 7-18-88; A 7-10-92; A by Bd. of Professional Eng'rs & Land Surv., 11-14-97)

Proposed edits to NAC 625.680

NAC 625.680 Disagreements concerning measurements or positions of monumented corners. (NRS 625.140, 625.250) If a professional land surveyor has a material disagreement with the measurements or monumented corner positions of another land surveyor, the professional land surveyor ~~shall~~ *must* contact the other land surveyor and attempt to resolve the disagreement.

(Added to NAC by Bd. of Reg'd Professional Eng'rs & Land Surv., eff. 7-18-88; A 7-10-92)

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Proposed edits to NAC 625.700

NAC 625.700 Report to client of discrepancies concerning boundary lines. (NRS 625.140, 625.250) The professional land surveyor ~~shall~~ *must*:

1. Advise his or her client of discrepancies which raise doubts concerning the boundary lines of the property being surveyed; and
2. Provide a written report to the client concerning the discrepancies.

(Added to NAC by Bd. of Reg'd Professional Eng'rs & Land Surv., eff. 7-18-88; A 7-10-92)

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Proposed edits to NAC 625.710

NAC 625.710 Identification and description of monuments. (NRS 625.140, 625.250, [625.350](#), [625.380](#))

1. All monuments, whether set or found, must be thoroughly described and specifically identified as set or found, whenever shown on maps or referred to in documents prepared by a professional land surveyor. Descriptions of monuments must be sufficient in detail to facilitate readily future recovery and to enable positive identification, including map references.

2. If the Nevada Coordinate System, as defined in chapter 327 of NRS, is used to describe a monument:

(a) The control used as the coordinate basis must be shown on any maps on which the monument is shown or documents in which reference is made to the monument; and

(b) The source of the control data used must be described.

(Added to NAC by Bd. of Reg'd Professional Eng'rs & Land Surv., eff. 7-18-88; A 7-10-92; A by Bd. of Professional Eng'rs & Land

Proposed edits to NAC 625.720

NAC 625.720 Drawing of survey; certification. (NRS 625.140, 625.250, 625.350)

1. *When A a professional land surveyor shall prepares a scaled drawing of the a survey for presentation to the a client, The drawing must comply with the provisions of NRS 625.340, 625.350 and 625.565. The map must be clearly and legibly drawn in a manner typically used for creating permanent records. The map must be of a scale sufficient to clearly show details. The map must include required statutory and regulatory information, and at a minimum, the following:*

- a) A scale, legend, and a north arrow;*
- b) Each sheet of the map must indicate its particular number, the total number of sheets in the map and its relation to each adjoining sheet;*
- c) All recorded, measured, mathematical information, and necessary data to locate all monuments and to locate and retrace all interior and exterior boundary lines appearing thereon, including the bearings and distances of straight lines, central angle, radii and arc length for all curves and such information as may be necessary to determine the location of the centers of curves; and*
- d) A narrative on boundary analysis when the clarity is needed to support statement of fact.*

2. In cases where a certification is required by statute or local ordinance, the professional land surveyor shall certify only those matters personally known to be true.

3. The certificate *for a Record of Survey* must be in the following form:

SURVEYOR'S CERTIFICATE

I, (name of professional land surveyor), a Professional Land Surveyor registered in the State of Nevada, certify that:

1. This plat represents the results of a survey conducted under my supervision at the instance of (owner, trustee, etc.).
2. The land surveyed lies within (section, township, range, meridian, county and city, if incorporated), and the survey was completed on (date).
3. This plat complies with applicable statutes of this State and any local ordinances in effect on the date that the survey was completed, and the survey was conducted in accordance with chapter 625 of the Nevada Administrative Code.
4. The monuments depicted on the plat are of the character shown, occupy the positions indicated and are of sufficient durability.
5. (Any other information that the professional land surveyor personally knows to be true concerning the land surveyed.)

(Validated seal of the professional land surveyor);

(Name and license number of the professional land surveyor printed below the seal).

(Added to NAC by Bd. of Reg'd Professional Eng'rs & Land Surv., eff. 7-18-88; A 7-10-92; A by Bd. of Professional Eng'rs & Land Surv., 11-14-97)

Proposed edits to NAC 625.740

NAC 625.665740 Classifications of surveys; use of classifications and requirements for positional certainty. (NRS 625.140, 625.250)

1. Boundary surveys have been divided into the following ~~four~~ *three* classifications:
 - (a) ~~High~~ Urban. *Urban* ~~S~~urveys *are performed on* land lying within or adjoining a city or town, ~~and including~~ *include* surveys of commercial and industrial properties, condominiums, townhouses, apartments, and other multiunit developments, regardless of geographic location. *All Land Title Surveys are included in this classification.*
 - (b) ~~Low-Urban~~ *Suburban*. *Suburban* ~~S~~urveys *are performed on* land lying outside ~~high~~ urban areas and ~~used almost exclusively developed~~ for single family residential use. ~~or residential subdivisions.~~
 - (c) ~~High~~ Rural. *Rural* ~~S~~urveys *are performed on* ~~land such as farms and other~~ undeveloped land lying outside the ~~low~~ urban and ~~suburban~~ areas ~~which may have potential for future development such as farms.~~
 - ~~—(d) Low Rural. Surveys of land normally lying in remote areas with difficult or barren terrain and which usually have limited potential for development.~~

2. A professional land surveyor ~~shall~~ *must* use the classifications described in subsection 1 and the requirements for positional certainty for those classifications prescribed in NAC 625.666 to establish the locations of monuments in a boundary survey.

(Added to NAC by Bd. of Reg'd Professional Eng'rs & Land Surv., eff. 7-18-88; A by Bd. of Professional Eng'rs & Land Surv., 11-14-97)

Proposed edits to NAC 625.760

NAC 625.760 Contract drawings and specifications; special instructions. (NRS 625.140, 625.250) Before beginning a construction survey, a professional land surveyor ~~shall~~ *must* obtain from the owner's representative a complete set of the contract drawings and specifications approved by the appropriate federal, state and local agencies and any special instructions for the proposed fixed works.

(Added to NAC by Bd. of Professional Eng'rs & Land Surv., eff. 11-14-97)

DRAFT

Proposed edits to NAC 625.770

NAC 625.770 Verification of location of certain points; notification of insufficient dimensions or details. (NRS 625.140, 625.250)

1. A professional land surveyor who is conducting a construction survey ~~shall~~ *must* ensure that:
 - (a) The location of the control that delineates the horizontal location of the proposed fixed works; and
 - (b) The locations of the benchmark for the project and the vertical location of the proposed fixed works,
→ are identical to the locations of those points as shown on the engineering plans for the project.
2. If the professional land surveyor discovers any material differences between the location of the control on the construction survey and the location of the control on the engineering plans for the project, he or she ~~shall~~ *must* notify the owner's representative of those differences.
3. If the dimensions or details of the engineering plans are not sufficient to establish the location of the proposed fixed works, the professional land surveyor ~~shall~~ *must* notify the owner's representative and the engineer or architect of record and request that the necessary additional information be provided.

(Added to NAC by Bd. of Professional Eng'rs & Land Surv., eff. 11-14-97)

Proposed edits to NAC 625.775

NAC 625.775 Positional certainties for marking locations of proposed fixed works. (NRS 625.140, 625.250) A professional land surveyor who conducts a construction survey ~~shall~~ *must* place the stakes or other materials used to mark the location of the proposed fixed works within the following positional certainties:

Proposed Fixed Works	Horizontal Positional Certainty		Vertical Positional Certainty	
	Meters	Feet	Meters	Feet
Rough Grades.....	±0.03 m	±1 ft	±0.06 m	±0.2 ft
Subgrades.....	±0.15 m	±0.5 ft	±0.015 m	±0.05 ft
Finish Grades.....	±0.15 m	±0.5 ft	±0.015 m	±0.05 ft
Buildings.....	±0.015 m	±0.05 ft	±0.01 m	±0.03 ft
Sewer Facilities	±0.1 m	±0.3 ft	±0.015 m	±0.05 ft
Waterlines.....	±0.1 m	±0.3 ft	±0.03 m	±0.1 ft
Hydrants Water Facilities Other Than	-		-	
Waterlines	±0.03 m	±0.1 ft	±0.015 m	±0.05 ft
Street Lights and Devices for the Control of	-		-	
Traffic	±0.06 m	±0.2 ft	±0.03 m	±0.1 ft
Curbs and Gutters.....	±0.03 m	±0.1 ft	±0.015 m	±0.05 ft

(Added to NAC by Bd. of Professional Eng'rs & Land Surv., eff. 11-14-97)

Proposed edits to NAC 625.780

NAC 625.780 Sketches, cut sheets and field notes. (NRS 625.140, 625.250) A professional land surveyor who conducts a construction survey ~~shall~~ *must retain* ~~provide the owner's representative~~ sketches, cut sheets or other field notes *created* to ~~describe~~ *support* the survey conducted.

(Added to NAC by Bd. of Professional Eng'rs & Land Surv., eff. 11-14-97)

DRAFT

Proposed edits to NAC 625.785

NAC 625.785 Verification surveys: Exchange of information. (NRS 625.140, 625.250) If a professional land surveyor other than the surveyor responsible for the initial location of the proposed fixed works conducts a verification survey, the professional land surveyor ~~shall~~ *must* share with the surveyor responsible for the initial location of the proposed fixed works notes and other data related to the verification survey. Each surveyor ~~shall~~ *must* provide to the other surveyor the results of the survey conducted by him or her and cooperate to resolve any discrepancies between the two surveys.

(Added to NAC by Bd. of Professional Eng'rs & Land Surv., eff. 11-14-97)

DRAFT

Proposed edits to NAC 625.790

NAC 625.790 Preparation of legal description of property. (NRS 625.140, 625.250) If a professional land surveyor is called upon to prepare a legal description of real property, the professional land surveyor ~~shall~~ *must* include:

1. A sufficient caption, body and, where applicable, qualifying clauses;
2. A clear statement of the relationship between the real property being described and the survey control or the basis of the unique location;
3. A clear statement explaining the basis of bearings or language which otherwise makes definite the method of direction and orientation for the lines of the property being described and the survey control related thereto;
4. Full and complete citations to maps, plats, documents and other matters of record, facts of pertinence, which are intended to be incorporated into and made a part of the legal description by reference thereto;
5. When called out, complete and detailed descriptions of physical monuments, both natural and artificial;
6. When appropriate, incorporated either directly or by citation, sufficient data to enable a check of mathematical closure for the property being described; and
7. His or her name, the number of his or her Nevada license and his or her validated seal.

(Added to NAC by Bd. of Reg'd Professional Eng'rs & Land Surv., eff. 7-18-88; A 7-10-92)

16.b. Legislative Counsel

Bureau Files:

R077-23, R079-23,
R126-23, R105-23

**PROPOSED REGULATION OF THE
STATE BOARD OF
PROFESSIONAL ENGINEERS AND LAND SURVEYORS**

LCB File No. R077-23

October 30, 2023

EXPLANATION – Matter in *italics* is new; matter in brackets ~~omitted material~~ is material to be omitted.

AUTHORITY: § 1, NRS 625.140 and 625.390; § 2, NRS 625.140 and 625.382; § 3, NRS 625.140, 625.154 and 625.193; §4, NRS 625.140.

A REGULATION relating to licensing; exempting certain persons from paying application fees relating to licensure as a professional engineer or professional land surveyor; revising provisions governing examination requirements for such licenses; removing provisions concerning applications for multiple categories or disciplines of engineering; and providing other matters properly relating thereto.

Legislative Counsel’s Digest:

Existing law requires the State Board of Professional Engineers and Land Surveyors to establish the fee for licensure as a professional engineer and professional land surveyor. (NRS 625.390) Existing regulations of the Board require each applicant to pay a fee of \$25 at the time of application for licensure as a professional engineer or professional land surveyor or for licensure in an additional discipline of engineering and \$50 for each application for certification as an engineer intern or a land surveyor intern. (NAC 625.210) Existing regulations also require each applicant applying for licensure on the basis of previous licensure in another state, territory, possession of the United States or country that is a signatory to the mobility agreements of the International Engineering Alliance to pay an application fee of \$125. (NAC 625.240) **Sections 1 and 2** of this regulation exempt an applicant who is an active member of, or the spouse of an active member of, the Armed Forces of the United States, a veteran or the spouse of a veteran from paying such fees.

Existing law authorizes the Board to issue a license to practice professional engineering or land surveying to an applicant, upon presentation of evidence that the applicant is licensed to practice professional engineering or land surveying, respectively, and in good standing in a state, territory, possession of the United States or country that maintains standards of engineering or land-surveying licensure, equivalent to those in this State, if the applicant, in the judgment of the

Board, has the necessary qualifications. (NRS 625.382) Existing regulations provide that an applicant for such licensure pass a short written examination on the provisions of the Nevada Revised Statutes and the Nevada Administrative Code relating to professional engineers and land surveyors. (NAC 625.240) **Section 2** removes this requirement.

Existing regulations authorize the Executive Director of the Board to review applications for licensure on the basis of previous licensure in another jurisdiction to determine if the applications satisfy certain criteria. If the applicant satisfies such requirements, the Executive Director is required to notify the Board and the Board may issue a license to practice professional engineering or land surveying to the applicant. (NAC 625.240) **Section 2** provides instead that if the applicant satisfies such requirements and is applying for a license as a professional land surveyor, the Executive Director is required to schedule the applicant for an examination and, if the applicant passes the examination, the Executive Director is required to notify the Board and the Board may issue a license to practice professional land surveying.

Existing law requires the examination for licensure as a professional engineer to consist of: (1) an examination on the fundamentals of engineering; and (2) an examination on the principles and practices of engineering. Existing law authorizes the Board to require additional examinations for licensure in specialized areas of practice within one or more recognized disciplines of engineering. (NRS 625.193) Existing regulations provide that: (1) the Board will require the passing of certain examinations that are prepared by the National Council of Examiners for Engineering and Surveying which meet the requirements for licensure as an engineer or land surveyor; and (2) the examination to become a structural engineer is a 16-hour examination comprised of two parts. (NAC 625.310) **Section 3** of this regulation removes the provision that the examination to become a structural engineer is a 16-hour examination and provides instead that the Board will require the passing of an examination that is prepared by the National Council of Examiners for Engineering and Surveying for licensure as a structural engineer.

Existing law requires the Board to hold examinations of applicants for licenses as a professional engineer or land surveyor at least once each year. (NRS 625.154) Existing regulations provide that the Board will offer Nevada-specific examinations at least once each year and require the passing of a short examination on existing laws and regulations governing professional engineers and land surveyors. (NAC 625.310) **Section 3** removes these provisions.

Existing regulations provide that, if the Board schedules an examination for an applicant, the Board must send to that applicant a notice of the time and place to appear before the Board for the examination. Existing regulations also require an applicant who is sent such a notice to appear before the Board in accordance with the schedule established by the Board. (NAC 625.330) **Section 4** of this regulation repeals these provisions.

Existing regulations require an applicant who applies for licensure in more than one discipline of engineering or in both the categories of professional engineer and land surveyor to file a separate application for each additional category or discipline. Existing regulations further set forth certain standards for approving any such application. (NAC 625.230) **Section 4** repeals this requirement.

Section 1. NAC 625.210 is hereby amended to read as follows:

625.210 1. An applicant shall not give the Executive Director of the Board as a professional reference.

2. Each applicant must complete and transmit a National Council of Examiners for Engineering and Surveying Record that verifies his or her college and postgraduate education, work experience, references and license examinations to the Board.

3. ~~Each~~ *Except as otherwise provided in subsection 4, each* applicant must pay the following fee, as appropriate, at the time of application:

(a) For each application for licensure as a professional engineer or professional land surveyor or for licensure in an additional discipline of engineering, \$25.

(b) For each application for certification as an engineer intern or a land surveyor intern, \$50.

4. An applicant is not required to pay the fee required by subsection 3 if the applicant is an active member of, or the spouse of an active member of, the Armed Forces of the United States, a veteran or the spouse of a veteran.

Sec. 2. NAC 625.240 is hereby amended to read as follows:

625.240 1. ~~An~~ *Except as otherwise provided in subsection 4, an* applicant who applies for licensure in this State on the basis of previous licensure in another state, territory, possession of the United States or country that is a signatory to the mobility agreements of the International Engineering Alliance must:

(a) Pay an application fee of \$125 and:

(1) File the required application with the Board; or

(2) Transmit a National Council of Examiners for Engineering and Surveying Record to the Board; *and*

(b) ~~{Pass a short written examination on chapter 625 of NRS and the regulations and code of conduct of the Board; and~~

~~—(c)}~~ Pass an oral examination if required by the Board.

2. After the oral examination, if applicable, the Board may require the applicant to pass another examination acceptable to the Board as a condition precedent to licensure.

3. The Executive Director of the Board may review and evaluate the applications submitted pursuant to this section to determine if the applications satisfy the criteria of a Model Law Engineer or Model Law Surveyor, as set forth by the National Council of Examiners for Engineering and Surveying. If the applicant satisfies these requirements ~~{}~~ *and is:*

(a) Applying for a license as a professional engineer, the Executive Director of the Board shall notify the Board and the Board may issue a license to practice professional engineering ~~{or land surveying}~~ to the applicant.

(b) Applying for a license as a professional land surveyor, the Executive Director of the Board shall schedule the applicant for an examination that covers the laws of this State and the procedures for the practice of land surveying and, if the applicant passes the examination, notify the Board and the Board may issue a license to practice professional land surveying to the applicant.

4. *An applicant is not required to pay the application fee required by subsection 1 if the applicant is an active member of, or the spouse of an active member of, the Armed Forces of the United States, a veteran or the spouse of a veteran.*

5. As used in this section, “mobility agreements” includes, without limitation, the APEC Agreement and the International Professional Engineers Agreement.

Sec. 3. NAC 625.310 is hereby amended to read as follows:

625.310 1. The Board will ~~offer Nevada-specific~~ *require the passing of the following* examinations ~~at least once each year. Specific information concerning times and places for scheduled examinations may be obtained from the office of the Board.~~ *that are prepared by the National Council of Examiners for Engineering and Surveying which meet the requirements for licensure as a structural engineer:*

(a) The Fundamentals of Engineering, which is a national examination that covers the fundamentals of engineering, unless the requirement is waived by the Board; and

(b) The Principles and Practice of Structural Engineering, which is a national examination that covers vertical and lateral components for design of buildings and other structures.

2. The Board will require the passing of the following examinations that are prepared by the National Council of Examiners for Engineering and Surveying which meet the requirements for licensure as an engineer ~~that is not a structural engineer:~~

(a) The Fundamentals of Engineering, which is a national examination that covers the fundamentals of engineering, unless the requirement is waived by the Board; and

(b) The Principles and Practice of Engineering, which is a national examination that covers the principles and practice of engineering.

3. The Board will require the passing of the following examinations that are prepared by the National Council of Examiners for Engineering and Surveying which meet the requirements for licensure as a land surveyor:

(a) The Fundamentals of Surveying, which is a national examination that covers the fundamentals of land surveying, unless the requirement is waived by the Board; and

(b) The Principles and Practice of Surveying, which is a national examination that covers the principles and practice of land surveying.

4. ~~{The Board will require the passing of a short examination on this chapter and chapter 625 of NRS.~~

~~—5.}~~ In addition to the ~~{examination}~~ *examinations* set forth in subsection ~~{4.}~~ *3*, the Board will prepare and offer a 2-hour examination that covers the laws of this State and the procedures for the practice of land surveying. The Board will offer this examination at least once each year.

~~{6. —The examination to become a structural engineer is a 16-hour examination which is composed of two parts, each of which lasts 8 hours.}~~

Sec. 4. NAC 625.230 and 625.330 are hereby repealed.

TEXT OF REPEALED SECTIONS

625.230 Applications for licensure in multiple categories or disciplines.

1. An applicant who applies for licensure in more than one discipline of engineering or in both the categories of professional engineer and land surveyor must:

(a) File a separate application for each additional category or discipline requested and pay the application fee for each additional application filed; and

(b) Complete and transmit separate National Council of Examiners for Engineering and Surveying Records that verify his or her college and postgraduate education, work experience, references and license examinations to the Board for each category or discipline for which he or she is applying.

2. If an applicant who is not a professional engineer concurrently applies for initial licensure in two or more disciplines of engineering, the Board will not approve the application unless the applicant submits evidence of significant experience, or education and experience, in each of the disciplines.

3. The Board generally will not approve an application in an additional discipline of engineering unless the applicant possesses a minimum of 10 years of education and experience.

4. The Board may accept a second baccalaureate degree in an approved curriculum in partial satisfaction of the requirements for licensure in an additional discipline of engineering if the applicant clearly shows that he or she possesses significant experience in the additional discipline, but in no case will the Board grant such a license within 6 years after the applicant received his or her first baccalaureate degree.

5. An applicant who applies for licensure on the basis of comity in more than one discipline of engineering may be granted licensure in the additional disciplines if the applicant clearly shows in the application that he or she possesses the required education and experience and his or her claims of proficiency are substantiated by an examination offered by the Board.

625.330 Examinations: Notice and duty to appear.

1. If the Board schedules an examination for an applicant, the Board must send to that applicant a notice of the time and place to appear before the Board for the examination.

2. An applicant who is sent a notice shall appear before the Board in accordance with the schedule established by the Board.

**PROPOSED REGULATION OF THE STATE BOARD OF
PROFESSIONAL ENGINEERS AND LAND SURVEYORS**

LCB File No. R079-23

November 20, 2023

EXPLANATION – Matter in *italics* is new; matter in brackets ~~omitted material~~ is material to be omitted.

AUTHORITY: §§ 1 and 2, NRS 625.140.

A REGULATION relating to professions; reorganizing and clarifying the requirements necessary for the renewal of an inactive license to practice professional engineering or land surveying; repealing provisions relating to a licensee or firm which conducts business under an assumed or fictitious name or designation; repealing certain notification requirements relating to a change in information of a licensee; repealing certain provisions related to the representation of a party in a proceeding before the Board; and providing other matters properly relating thereto.

Legislative Counsel's Digest:

Existing law authorizes the State Board of Professional Engineers and Land Surveyors to adopt all regulations which are necessary for the proper performance of the duties of the Board, the regulation of the proceedings before it and the maintenance of a high standard of integrity and dignity in the profession. (NRS 625.140)

Existing regulations authorize, under certain circumstances, a licensee to apply to the Board to change his or her status to inactive. (NAC 625.420) Existing regulations further provide that if a licensee has changed his or her status to inactive: (1) the Board will issue an identification card indicating that the licensee is inactive; and (2) such an identification card expires on the same date his or her license would expire if the licensee were on active status. (NAC 625.420, 625.460) To renew an identification card, existing regulations require a licensee to complete certain professional development hours in the same manner as a licensee who is on active status. Existing regulations also provide that to reinstate a license from inactive to active status, a licensee must submit proof that he or she has completed certain professional development hours. (NAC 625.460) **Sections 1 and 2** of this regulation reorganize provisions relating to licenses that are on inactive status. **Section 1** also provides that: (1) a license on inactive status expires on the same date that the license would expire if such a license were on active status; (2) to renew a license that is on inactive status, a licensee is required to complete certain professional development hours in the same manner as a licensee who is on active status; and (3) a licensee who has changed his or her status to inactive may reinstate the license to active status under certain circumstances.

Existing regulations require a licensee or firm which conducts business under a fictitious name to submit a certificate of fictitious name to the Board within 30 days after the first use of the name or designation. (NAC 625.620) **Section 2** repeals this requirement.

Existing regulations require a licensee to submit a written notice to the Board within 30 days after a change in the information on file with the Board concerning the licensee's: (1) employer; or (2) category or discipline of engineering or land surveying. (NAC 625.625) **Section 2** repeals this requirement.

Existing regulations provide that a party may represent himself or herself or be represented by an attorney or any other person the party designates in any proceeding before the Board. (NAC 625.635) If an attorney represents a party in a proceeding before the Board, existing regulations require the attorney to be admitted to practice and in good standing before the highest court of any state. (NAC 625.635) Existing regulations further require an attorney who is not admitted to practice in Nevada to associate with an attorney who is so admitted. (NAC 625.635) **Section 2** repeals all requirements regarding who may represent a party in a proceeding before the Board.

Section 1. NAC 625.420 is hereby amended to read as follows:

625.420 1. In lieu of the renewal of his or her license, a licensee may apply to the Board to change his or her status to:

(a) Retired, by filing with the Board a notice in writing that states the licensee's intention to retire from practice. The Board will issue an identification card indicating that the licensee is retired.

(b) Inactive, by filing with the Board a notice in writing that states the licensee's intention to change his or her status to inactive and paying a fee that is equal to the fee required for a licensee who wishes to renew his or her license. The Board will issue an identification card indicating that the licensee is inactive. *A license that is on inactive status pursuant to this section expires on the same date that the license would expire pursuant to NAC 625.410 if such license were on active status. To renew a license that is on inactive status pursuant to this section, a licensee must comply with the requirements of NAC 625.430 in the same manner as a licensee who is on active status.*

2. If ~~{an identification card is issued to}~~ a licensee *places his or her license on retired or inactive status* pursuant to this section, ~~{his or her license expires and}~~ he or she is not licensed to continue to practice.

3. A licensee who has changed his or her status to retired pursuant to this section may reinstate his or her license to active status by complying with the requirements for the issuance of an original license and submitting proof that he or she has completed at least 30 professional development hours *as described in NAC 625.430* within the 2 years immediately preceding the date of the licensee's request to reinstate his or her license to active status.

4. A licensee who has changed his or her status to inactive pursuant to this section may reinstate his or her license to active status ~~{by submitting proof that he or she has completed at least 30 professional development hours within the 2 years immediately preceding the date of the licensee's request to reinstate his or her license to active status.}~~ *if:*

(a) He or she has complied with the requirements of NAC 625.430 in the same manner as a licensee who is on active status during the period in which his or her license has been on inactive status; and

(b) Either:

(1) The inactive license has not expired; or

(2) The license has been expired for 6 months or less.

Sec. 2. NAC 625.460, 625.620, 625.625 and 625.635 are hereby repealed.

TEXT OF REPEALED SECTIONS

625.460 Inactive status: Requirements for renewal of identification card. (NRS 625.140, 625.398) The identification card issued to a licensee who has changed his or her status to inactive status pursuant to NAC 625.420 expires on the same date as his or her license would expire if the licensee were on active status. To renew the identification card, a licensee who has changed his or her status to inactive pursuant to NAC 625.420 must comply with the requirements of NAC 625.430 in the same manner as a licensee who is on active status.

625.620 Fictitious names. (NRS 625.140) Any licensee or firm which conducts business under an assumed or fictitious name or designation and which does not show the real name of the firm or names of the persons engaged or interested in the business shall file with the Board a certificate of fictitious name in the form required by chapter 602 of NRS within 30 days after the first use of the name or designation.

625.625 Notice of change in licensee's employer, category or discipline. (NRS 625.140)

1. If any information on file with the Board concerning a licensee's:

- (a) Employer; or
- (b) Category or discipline of engineering or land surveying,

↪ changes, the licensee shall submit written notice of the change to the Board within 30 days.

The notice must include any change of the contact information of the licensee's principal place of business.

2. As used in this section, “contact information” means the address, telephone number and electronic mail address of the licensee’s principal place of business.

625.635 Representation of parties; qualifications of attorneys. (NRS 625.140)

1. A party may, in any proceeding before the Board, represent himself or herself or be represented by an attorney or any other person he or she designates.

2. If a party chooses to be represented by an attorney, the attorney must be admitted to practice and in good standing before the highest court of any state. If the attorney is not admitted and entitled to practice before the Supreme Court of Nevada, he or she must associate with an attorney who is so admitted and entitled to practice.

**PROPOSED REGULATION OF THE
STATE BOARD OF PROFESSIONAL ENGINEERS AND
LAND SURVEYORS**

LCB File No. R126-23

December 15, 2023

EXPLANATION – Matter in *italics* is new; matter in brackets ~~[omitted material]~~ is material to be omitted.

AUTHORITY: §§ 1-4, NRS 625.140 and 625.250.

A REGULATION relating to professions; repealing certain provisions relating to certain standards of practice of professional land surveyors; repealing certain provisions relating to certain contributions to geographical information systems made by a professional land surveyor; and providing other matters properly relating thereto.

Legislative Counsel’s Digest:

Existing law authorizes the State Board of Professional Engineers and Land Surveyors to adopt all regulations, not inconsistent with the constitution and laws of this State, which are necessary for the proper performance of the Board, the regulation of the proceedings before it and the maintenance of a high standard of integrity and dignity in professional engineering and land surveying. (NRS 625.140) Existing law also requires the Board to administer certain provisions and requirements concerning professional land surveyors and requires it to do so by regulation as necessary. (NRS 625.250)

Existing law defines: (1) the “practice of land surveying” as certain practices and skills comprising the work of land surveying; and (2) the “responsible charge of work” as the independent control and direction of professional engineering or land-surveying work, or the supervision of such work, by the use of initiative, skill and independent judgment. (NRS 625.040, 625.080) Existing regulations provide that a professional land surveyor is responsible for adherence to the minimum standards of practice of land surveying on works where the professional land surveyor is the person in responsible charge of the work and that any failure to comply with minimum standards of practice may be considered by the Board as evidence of certain violations of the practice of land surveying. (NAC 625.660) **Section 4** of this regulation repeals this provision.

Existing regulations set forth certain standards of practice for professional land surveyors relating to: (1) compliance with requirements relating to the positional certainty of monuments; and (2) the analysis of the location of corner positions and boundaries lines and the setting of monuments pursuant to existing law. (NAC 625.668, 625.690) **Section 4** repeals these provisions.

Existing regulations set forth certain provisions when a professional land surveyor: (1) contributes information to a geographic information system; (2) advises the developers of a geographic information system; and (3) conducts surveys to collect information that will be included in a geographic information system. (NAC 625.795) **Section 4** repeals these provisions. **Sections 1-3** of this regulation make conforming changes to remove references to a provision that is repealed by **section 4**.

Section 1. NAC 625.651 is hereby amended to read as follows:

625.651 As used in NAC 625.651 to ~~625.795,~~ **625.790**, inclusive, “positional certainty” means a measurement of the relative accuracy of positions with respect to the location of a controlling monument.

Sec. 2. NAC 625.655 is hereby amended to read as follows:

625.655 When engaging in the practice of land surveying in this State, a professional land surveyor shall apply all applicable statutes and regulations in addition to the minimum standards of practice for professional land surveyors established in NAC 625.651 to ~~625.795,~~ **625.790**, inclusive.

Sec. 3. NAC 625.664 is hereby amended to read as follows:

625.664 For the purposes of NAC 625.651 to ~~625.795,~~ **625.790**, inclusive, the positional certainty of a point or monument or of the horizontal or vertical component of a survey must be based upon a confidence level of not less than 95 percent.

Sec. 4. NAC 625.660, 625.668, 625.690 and 625.795 are hereby repealed.

TEXT OF REPEALED SECTIONS

625.660 Responsibility for compliance with standards of practice.

Responsibility for adherence to the minimum standards of practice for engaging in the practice of land surveying rests with the professional land surveyor in responsible charge of the work. Failure on the part of any Nevada professional land surveyor to comply with these minimum standards may be considered by the Board as evidence of gross negligence, professional incompetence or misconduct in the practice of land surveying.

625.668 Positional certainty: Horizontal and vertical positions of monuments.

When conducting a land boundary, topographic, control or geodetic survey, a professional land surveyor shall ensure that the horizontal and vertical positions of the monuments established by the surveyor comply with the requirements for positional certainty set forth in NAC 625.666.

625.690 Location of corners, boundaries and monuments.

1. The professional land surveyor shall make a final analysis and reach a conclusion as to the most probable location of corner positions and boundary lines.
2. A professional land surveyor shall set monuments pursuant to the provisions of NRS 625.380 and all applicable local ordinances.

625.795 Duties regarding geographic information systems.

1. When contributing information to a geographic information system, a professional land surveyor must include for use as metadata a statement describing the positional certainty of each type of information contributed to the system by the professional land surveyor.

2. When advising the developers of a geographic information system, a professional land surveyor must make recommendations concerning the appropriate methods for:

- (a) Conducting a survey for the development of the system; and
- (b) Compiling data for the contribution of additional information to the system after it is developed.

3. A professional land surveyor shall comply with the provisions of NAC 625.651 to 625.795, inclusive, when conducting surveys to collect information that will be included in a geographic information system.

4. As used in this section:

(a) “Geographic information system” means a collection of computer hardware, software and data that is used for the collection, management, manipulation, analysis and display of information that includes a positional component.

(b) “Metadata” means data that describes information used to describe an object.

**PROPOSED REGULATION OF THE
STATE BOARD OF PROFESSIONAL ENGINEERS AND
LAND SURVEYORS**

LCB File No. R105-23

November 7, 2023

EXPLANATION – Matter in *italics* is new; matter in brackets ~~omitted material~~ is material to be omitted.

AUTHORITY: § 1, NRS 625.250.

A REGULATION relating to professional land surveyors; repealing the requirement that, under certain circumstances, a professional land surveyor establish the final location of points within certain positional certainties; and providing other matters properly relating thereto.

Legislative Counsel's Digest:

Existing law requires the State Board of Professional Engineers and Land Surveyors to: (1) administer the provisions and requirements of the Nevada Revised Statutes concerning professional land surveyors; and (2) make and enforce such regulations as necessary to carry out those provisions. (NRS 625.250) Existing regulations provide that when conducting a construction survey, a professional land surveyor is required to establish the final location of points within certain positional certainties. (NAC 625.765) This regulation repeals this requirement from the Nevada Administrative Code.

Section 1. NAC 625.765 is hereby repealed.

TEXT OF REPEALED SECTION

625.765 Establishment of final location of points. When conducting a construction survey, a professional land surveyor shall establish the final location of points within positional certainties which ensure that the proposed fixed works may be properly constructed.

17. Government Liaison Report

18. Board and Staff Assignments

Action List

BOARD MEETING ITEMS

September 12, 2019 Board Meeting

12. Administrative report by Executive Director

b. Action items related to the 2017-2021 Strategic Plan

Mr DeSart asked that dates be posted on our website of when the Las Vegas board office is staffed. **Staff**

September 21, 2023 Board Meeting

11. Discussion and possible action on delegation of formal hearings to a hearing officer, Nevada Revised Statute 625.150 (5).

Staff to work with Mr MacKenzie and Ms Purcell to gather information on contractor's board hearing officer process and draft proposed changes to the Rules of Practice. **Staff**

16. Discussion and possible action on electronic submittals and digital signatures, Nevada Administrative Code chapter 625, NAC 625.610.

Reconvene taskforce to review current guide (update as needed), explore issues relating to digitally signing submittals with multiple disciplines, and review and advise on entity electronic submittal intake requirements. **Staff**

Develop entry level in-person workshops on preparing and digitally signing electronic submittals. Reach out to stakeholder organizations for opportunities to present/host. **Staff**

December 14, 2023, Interim board meeting

6. Consideration of board appointment of interim executive director

Ms Purcell delegated task by board chair to assess current staff. **Ms Purcell**

COMMITTEE ITEMS

PROFESSIONAL ASSOCIATION LIAISON COMMITTEE

February 9, 2021 Meeting

7. Discuss board's updated Strategic Plan—goals and strategies related to PAL Committee and discuss possible tactics/action items.

Goal 2: Licensure – Strategy (5): *Provide options to meet land surveyor educational requirements*

Consider forming sub-committee to contact with UNLV Dean of Engineering about creating a minor in land surveying. **Ms Mamola**

September 20, 2023 Meeting

7. Open discussion topics.

Following invitation to Ms Mamola to speak at a northern Nevada NALS meeting about electronic map submittals, an e-map submittal taskforce was formed and Ms Mamola is representing the board. **Ms Mamola**

ADMINISTRATIVE PROCEDURES OVERSIGHT COMMITTEE

APOC - March 30, 2021 Meeting

5. Discuss third-party verification of digital signatures for licensees of the board and possible role of the board in the verification process including cost participation.

Continue to monitor other states regulations relating to third-party verification requirements. **Staff**

March 30, 2023, Meeting

5. Consider executive director work performance and salary.

Update salary study information (use 2017 document as template). **Staff**

6. Consider proposed budget for fiscal year July 1, 2023 to June 30, 2024.

Suggested that options be explored that could be of some tangible benefit to existing licensees to accelerate the reduction of the reserve. Prepare evaluation of options to be considered by APOC. **Staff**

May 10, 2023, Meeting

6. Consider proposed budget for fiscal year July 1, 2023 to June 30, 2024.

Projections for health insurance costs in consideration of possible expansion of board covered expenses. **Ms Mamola**

October 3, 2023, Meeting

4. Consider draft personnel policy employee handbook

Ms Mamola to consider committees input and present a revised draft for consideration at next APOC meeting. **Ms Mamola**

Next APOC meeting to be scheduled in early December to enable time for another possible round of edits before presenting the personnel policy for board consideration at the January 2024 meeting. **Staff**

Mr Spata commented that policy manual to be reviewed/edited for what level an internal personnel issue(s) should be reported to the board chair (or board as a whole)

Consider suggested edits to the draft personnel policy employee handbook forwarded by Mr DeSart. **Mr MacKenzie + Staff**

In addition to prohibited in the workplace, consider language relating to “impairment” – impairing ability to perform job functions. **Mr MacKenzie + Staff**

Ms Mamola to “humanize the document” – draft an introductory cover letter. **Ms Mamola**

December 14, 2023, Interim board meeting

6. Consideration of board appointment of interim executive director

APOC delegated task by board chair to search for Executive Director candidates.

PUBLIC OUTREACH COMMITTEE

Public Outreach Committee - January 12, 2023 Meeting

6. Consider and discuss public communications/social media efforts and available budget for remainder of fiscal year, January 1, 2023, to June 30, 2023).

Identify schedule of career fairs at UNR and UNLV and consider a NVBPELS booth. **Staff**

LEGISLATIVE COMMITTEE

Discuss proposed NAC 625.310(4), requiring engineering applicants to pass a short exam on chapter 625 of NRS and NAC.

Short exam on chapter 625 of NRS and NAC to be updated by staff (periodically) and submitted to LegComm for approval.

This item has been paused pending the amendment to NAC removing the short exam requirement and replacing it with an attestation of NRS/NAC review by the applicant.

Consider future licensing of engineers as it relates to emerging technologies and blended engineering degrees including considering retention and/or modification of specific disciplines licensed by the board.

Develop position statement before end of FY 2023/2024 of the issues to be addressed. This item to encompass discipline specific vs PE state discussion. Mr Fyda and Ms Mamola discuss and identify possible solutions to the issues identified by position statement.

Possible NRS changes for consideration

- NRS 625.183

Discussion on experience and supervision (PE of same disc) requirement for engineering licensure

- NRS 625.193

Discussion on time period for waiver of the FE + additional housekeeping edits

- NRS 625.270

Consider impacts of NCEES PLSS module release Oct 2027 + additional housekeeping edits

- NRS 625.280

Discussion on time period for waiver of the FS + additional housekeeping edits

Possible NAC changes for consideration

- NAC 625.310

Consider impacts of NCEES PLSS module release Oct 2027 on Nevada state specific PLS exam.

Schedule for NAC changes currently under review

Executive Order regulation changes/repeals

1.16.2024 - LCB drafts (R files) of changes/repeals to be considered by LegComm.

1.24.2024 - LCB drafts (R files) of changes/repeals to be considered/approved by Board.

Schedule "Intent to Adoption Regulations Hearing" (has 30-day posting requirement).

Contract and PLS regulation changes/repeals

1.24.2024 – Following Public Workshop (Dec 6), changes/repeals to be considered by Board.

1.25.2024 – Board approved changes/repeals to be sent to LCB for drafting.

LCB assigns R-file # and drafts changes/repeals. They generally can get them back for first review within 30 days (depending on their workload).

Once LCB drafts are received and reviewed by staff, LegComm meeting to be scheduled, and then a subsequent board meeting to approve.

Following board approval, "Intent to Adoption Regulations Hearing" would be scheduled (has 30-day posting requirement).

STRATEGIC PLAN ITEMS

DRAFT *Annual Report* for APOC/Public Outreach committee review.

BUSINESS PLAN ITEMS

Electronic submittals + digital signing of documents.

System database comprehensive upgrade.

Website effectiveness.

19. Future Meeting Dates

BOARD MEETING DATES

Board meetings are typically scheduled for the second Thursday of every other month.

March 14, 2024 — Reno

May 9, 2024 — Las Vegas

July 18, 2024 — Tonopah

September 12, 2024 — Las Vegas

November 14, 2024 — Reno

January 16, 2025 — Las Vegas

Future NCEES Meetings

NCEES Western Zone Interim Meetings

May 16–18, 2024 — Bozeman, Montana

NCEES Annual Meetings

August 14–17, 2024 — Chicago, Illinois

August 19–22, 2025 — New Orleans, Louisiana

20. Topics for Future Meetings

21. Public Comment

22. Adjournment