PROJECT NUMBER 2023-422
6.8.2023

STATEMENT OF QUALIFICATIONS FOR

On-Call Campus Electrical Engineer(s) for DSHS Medical Lake Campus

WA State Department of Social and Health Services (DSHS)

NAC

NAC

June 8, 2023
Department of Enterprise Services
Facility Professional Services
1500 Jefferson St SE
Olympia, WA 98501

RE: **Project No. 2023-522, On-Call Campus Electrical Engineers for DSHS Medical Lake Campus**

Dear Ms. Kristine Keller,

NAC Engineering highly values our relationship with DES and DSHS, appreciating the opportunity to work on many successful collaborative projects. Our team is comprised of diverse design experts with experience working on behavioral health projects on both sides of the state. Whether it's a lower risk level outpatient behavioral health facility or a higher security level forensic patient ward containing level 4 risk patients, our collective experience enables seamless project execution across various DES and DSHS locations in Washington State.

Drawing from our recent experiences on the Medical Lake campus, including Medium-Voltage upgrades, Fiber Optic Upgrades, Power Distribution upgrades, Generator upgrades and forensic level 1-4 compliant designs for lighting, power and systems, we look forward to new projects such as ESH & Pine Lodge: Electrical Feeder Replacement, ESH: Activities Building - Electrical & Emergency Generator, and Lakeland Village: Nurse Call Alert System Upgrades.

With expertise in study and planning, power systems, medium-voltage, lighting and lighting solutions, and low-voltage systems (including but not limited to fiber optics and nurse call), NAC Engineering is dedicated to delivering exceptional services to DES and DSHS. We prioritize meeting project needs, whether for quick turnarounds or long-term endeavors, aiming to surpass expectations at every stage.

Rest assured, NAC Engineering will utilize our extensive knowledge and experience to provide comprehensive support and aim to continue to be your local resource. Our commitment extends beyond satisfaction, aiming for a superior outcome that aligns with DES and DSHS's vision.

Sincerely,

Jack Schnieder, PE, LEED BD+C, LC
Principal-in-Charge

> 1203 W Riverside Ave, Spokane, WA 99201-1107
509 838 8240 / nacarchitecture.com
Seattle / Spokane / Los Angeles

STATE OF WASHINGTON
DEPARTMENT OF ENTERPRISE SERVICES
1500 Jefferson St. SE, Olympia, WA 98501
PO Box 41476, Olympia, WA 98504-1476

Consultant Selection Contact Form

Designated Point of Contact for Statement of Qualifications

For Design Bid Build, Design Build, Progressive Design Build, GC/CM & Job Order Contracting (JOC) Selections

Firm Name: NAC Architecture		
Point of Contact Name & Title: Jack Schneider, Principal		
Email: jschneider@nacarchitecture.com	Telephone: 509-838-8240	
Address: 1203 W Riverside Ave		
City: Spokane	State: WA	Zip: 99201-1107

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Qualifications of Key Personnel

NAC's collaborative leadership and inclusive approach with clients and stakeholders have led to our reputation for facilitating an engaging and highly productive design process.

Team Overview

Founded in 1976, NAC Engineering specializes in the design and construction of power distribution, signaling, telecommunications, fire alarm, security, lighting, and other low-voltage systems for a broad spectrum of educational and institutional projects. NAC Engineering has a staff of eight, including four licensed electrical engineers, with over 75 years of collective experience in the design and construction of:

- 600 VAC and 15 kV power distribution systems
- Outside plant telecommunication infrastructure
- Telecommunications infrastructure for fiber and copper networks
- Nurse call systems
- Security intrusion detection systems
- Security access control systems
- Security Duress help-call systems
- Security video surveillance security systems
- Addressable fire alarm systems with and without voice evacuation systems

NAC's ADDITIONAL IN-HOUSE ELECTRICAL SERVICES

Arc Flash Hazard Analysis
Electric vehicle charging stations
Fire alarm voice evacuation Intelligibility analysis
Green building dashboard systems
Grounding systems
Lightning protection
Load flow studies
Mass notification systems
Multi-media audio/video distribution
Network energy metering systems
Network one-way and two-way intercom systems
Networked clock and combination clock/intercom systems
Networked lighting control systems
Performance sounds systems
Photovoltaic power generation systems
Standby and emergency generation
VESDA smoke detection systems
Z-Band networked video distribution

The value we bring

We approach projects from an end-user perspective and believe in active participation with the owner. Our role is to provide the owner with understandable options that are cost effective so informed decisions can be made. **Jack Schneider, PE,** serves as the Principal-in-Charge and acts as a staunch advocate for you, the client. With an extensive background in electrical engineering, Jack brings 26 years of experience specifically focused on the design of medical and healthcare facilities. His expertise extends to mental health and psychiatric spaces, where he skillfully balances the necessity for safety features like anti-ligature fixtures, pick-proof caulk, and vandal-resistant hardware, all while minimizing their "institutional" appearance.

Jack's passion and seasoned knowledge enable him to lead teams adept at providing cost-effective, reliable, and robust electrical designs that precisely align with the client's needs and project requirements. His proficiency in this specialized field ensures that the electrical systems within medical and healthcare facilities are designed to meet the highest standards while prioritizing both functionality and aesthetics.

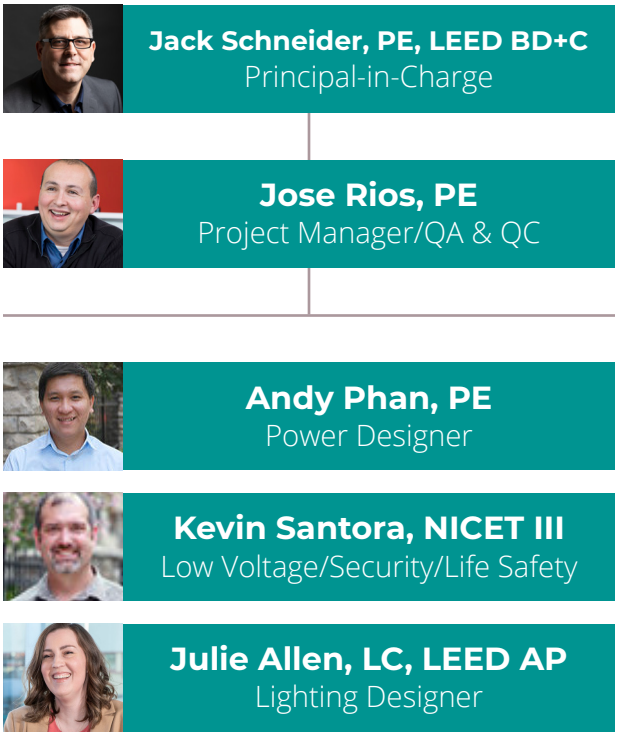
Jose Rios, PE is the PM that will oversee the design team and provide QA/QC for the on-call projects. Jose brings a wealth of knowledge in electrical engineering design. He brings over 17 years of diverse electrical engineering experience and has been directly involved and managed teams that have developed various electrical designs for Western State Hospital and Fircrest Adult Rehabilitation Center. He is well versed in current published standards for psychiatric and behavioral health requirements and standards. He is a "hands on" type of PM and engineer. He takes pride in the work he and his team produce and is always in the pursuit of elevating the quality of NAC Engineering electrical designs.

Andy Phan, PE will be your Power Designer with experience in designing and analyzing 15kV medium voltage systems, 600 volts systems, and generators to ensure the safe and efficient operation of electrical systems. Recently, Andy had the opportunity to work on many successful collaborative projects at the Lakeland Village campus. With a deep understanding of campus standards, DES and DSHS expectations, Andy will be a vital contributor to your upcoming projects and work to ensure the reliable and efficient utilization of electrical power while striving for sustainable solutions.

Kevin Santora, NICET III, will be the lead low voltage, security, and life safety systems designer. Kevin brings over 25 years of systems design for a variety of project types and sizes. He has been involved with many past projects at the Medical Lake campus and other DSHS locations across the state. He understands the needs of each facility and applies his vast knowledge to develop functional, cost effective designs that DSHS relies upon to run and operate their facilities

Julie Allen, LC, LEED AP has provided lighting design services since 2006, and brings a creative sensibility to every project from a sustainable and artistic perspective. As an integral part of the NAC team, she enhances client outcomes and ensures code compliance for energy efficiency. Julie's extensive research into the connection between light and health has successfully implemented circadian-based lighting strategies for many projects. Her experience includes all project phases, from planning and pre-design through construction administration and commissioning.

Organizational chart



Jack is experienced both in on-call contracts as well as extensive, successful work with DES. The NAC Engineering team offers the unique benefit of providing DES with one of the most respected electrical engineers in Eastern Washington. Jack is a seasoned, versatile engineer who has extensive experience in the design of sustainable, high performance electrical systems. Based in our Spokane office, Jack will leverage his collaborative leadership style on any projects set in Eastern Washington.

> Jack Schneider

PE, LEED BD+C, LC

Principal-in-Charge

EXPERIENCE
26 years

EDUCATION
Bachelor of Science, Electrical Engineering

REGISTRATION(S)
Professional Engineer: CA, ID, OH, WA

Select Projects

Electrical Infrastructure Upgrade
DSHS Lakeland Village / Medical Lake, WA

Fiber Optic Improvements
DSHS Lakeland Village / Medical Lake, WA

Rosewood Generator Replacement
DSHS Lakeland Village / Medical Lake, WA

Crisis Stabilization Facility
Spokane County Mental Health / Spokane, WA

On-Call Electrical Services
Spokane County / Spokane, WA

Eastlake Building, Generator Replacement
DSHS Lakeland Village / Medical Lake, WA

Campus Security Upgrades
Spokane Community College / Spokane, WA

Medium Voltage Switchgear Replacement
Walla Walla Community College / Walla Walla, WA

Medium Voltage Feeder Replacement
Walla Walla Community College / Walla Walla, WA

Medium Voltage Transformer Replacement
Walla Walla Community College / Walla Walla, WA

Jose offers over 17 years of diversified Electrical experience in design engineering, field engineering, project management, and working with Electrical Codes and Standards. With a customer service first attitude, Jose has repeatedly demonstrated creative and thoughtful electrical designs that meet or exceed client needs and expectations. His collaborative approach to design coupled with his diverse engineering background has earned Jose the recognition of being a subject matter expert for NAC Engineering and the overall firm. .

> Jose Rios

PE

Project Manager / QA & QC

EXPERIENCE
17 years

EDUCATION
Bachelor of Science, Electrical Engineering
(Degree emphasis in power distribution systems and radio frequency communication systems)

REGISTRATION(S)
Professional Engineer: WA, CO

Select Projects

Building 39 Security Fencing
DSHS Western State Hospital / Tacoma, WA

Wards E3-E4 Forensic Remodel
DSHS Western State Hospital / Lakewood, WA

Building 20 Treatment and Recovery Center Addition and Remodel
DSHS Western State Hospital / Tacoma, WA

Adult Rehab Center
DSHS Firecrest / Shoreline, WA

Electrical Infrastructure Upgrade
DSHS Lakeland Village / Medical Lake, WA

Building Elevator Modernization
DSHS Lakeland Village / Medical Lake, WA

Forensic Services
DSHS Western State Hospital / Lakewood, WA

IT Data Center Power Distribution Unit
Spokane County / Spokane, WA

Capacity Projects
Lake Washington School District / Multiple Locations, WA

Andy is a highly collaborative electrical designer who has been involved in several recent projects for DSHS at Lakeland Village. He is intimately familiar with DSHS standards and expectations and is dedicated to delivering outstanding results that exceed expectations.

> Andy Phan

PE

Power Designer

EXPERIENCE
8 years

EDUCATION
Bachelor of Science, Electrical Engineering

REGISTRATION(S)
Professional Engineer: WA

Select Projects

Electrical Infrastructure Upgrade
DSHS Lakeland Village / Medical Lake, WA

On-Call Electrical Services
Spokane County / Spokane, WA

Clarkston Workforce and Business Development Center
Walla Walla Community College / Walla Walla, WA

Spokane Teaching Health Center
Washington State University / Spokane, WA

Electrical Capacity Upgrade
Eastern Washington University / Cheney, WA

Chilled Water Capacity Upgrade
Eastern Washington University / Cheney, WA

Fire Alarm Systems
Eastern Washington University / Cheney, WA

Pine Street Parking
Washington State University / Spokane, WA

Kevin is a highly collaborative electrical designer with broad experience in electrical design and products, including a long history of projects as a Spokane County on-call electrical engineering consultant. He excels in client communications and is dedicated to delivering outstanding results that exceed expectations.

> Kevin Santora

NICET III

Low Voltage/Security/Safety

EXPERIENCE
23 years

EDUCATION
Associate of Applied Science, Engineering Technologies

REGISTRATION(S)
National Institute for Certification in Engineering Technologies (NICET Level 3)

Select Projects

Eastlake Building, 3N3 and 1N3 Forensic Ward Renovation
DSHS Eastern State Hospital / Medical Lake, WA

Mental Health Crisis Stabilization Facility
Spokane County / Spokane, WA

On-Call Electrical Services
Spokane County / Spokane, WA

Campus Access Control
Spokane Community College / Spokane, WA

Campus Security Upgrades
Spokane Community College / Spokane, WA

Building 17 Renovation
Spokane Falls Community College / Spokane, WA

Parking Lot Expansion
Walla Walla Community College / Walla Walla, WA

Joya Child and Family Development
Spokane County / Spokane, WA

Glover Middle School Replacement
Spokane Public Schools / Spokane, WA

Julie brings a creative sensibility to every project from a sustainable and artistic perspective. As an integral part of the NAC team, she enhances architectural outcomes and ensures code compliance for energy efficiency. Julie's extensive research into the connection between light and health has successfully implemented circadian-based lighting strategies for several projects. Her experience includes all project phases, from planning and pre-design through construction administration and commissioning.

Select Projects

Psychiatric Ward Lighting Improvements
King County / Seattle Washington

Animal Shelter Remodel
King County / Seattle Washington

Forestry Sciences Lab Remodel and East Wing Replacement
Oregon State University / Corvallis, OR

Exterior Lighting LED Study
Boeing Campus-wide / Auburn, WA

Evidence Warehouse Retrofits
Oregon State University / Seattle, WA

Daylighting Study
Punahou School / Honolulu, HI

Dental Clinic Modernization
Army Corps of Engineers – Seattle District, Fairchild AFB / Seattle, WA

> Julie Allen

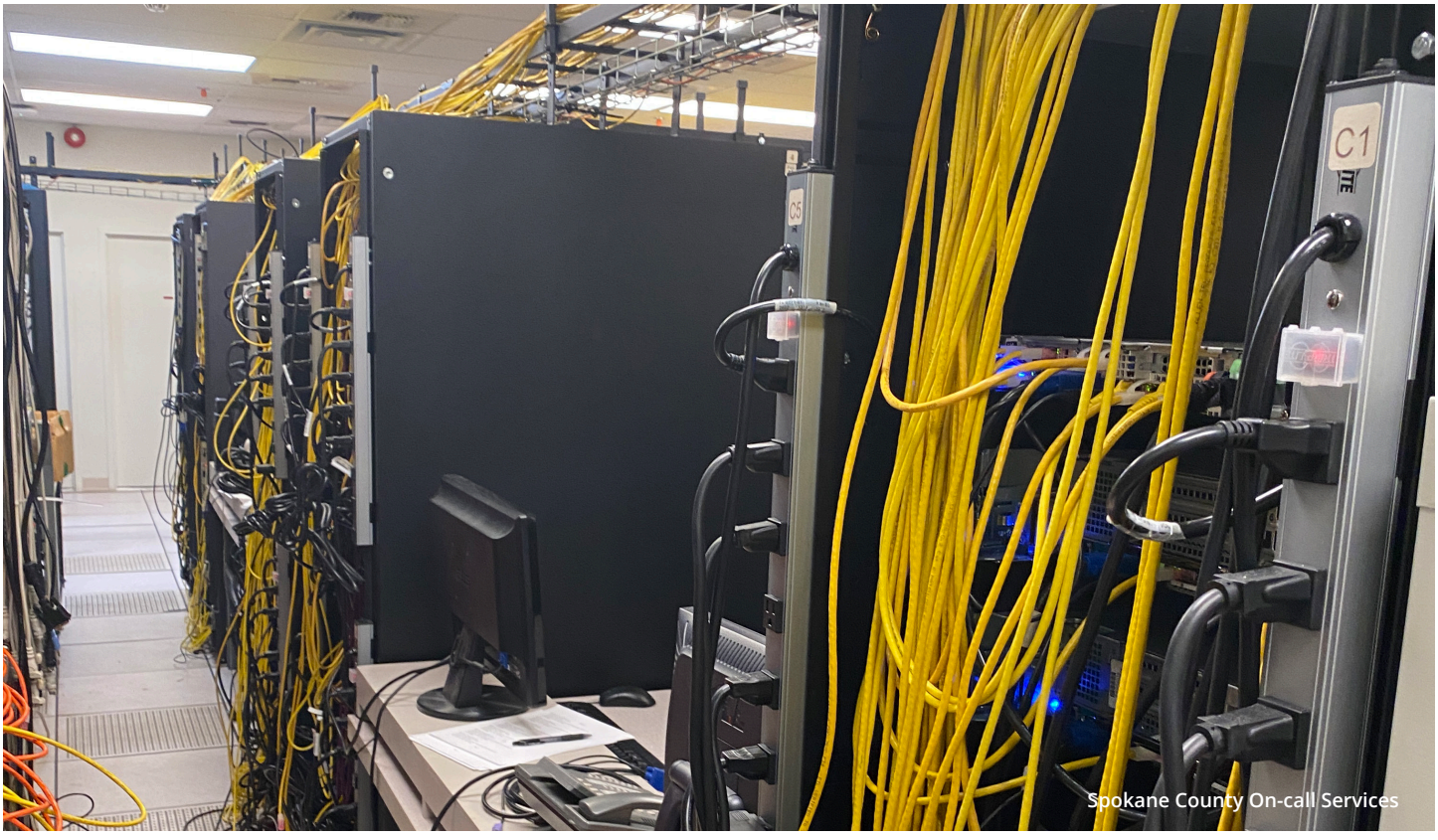
LC, LEED AP

Lighting Designer

EXPERIENCE
17 years

EDUCATION
Bachelor of Humanities, Art History

REGISTRATION(S)
Leadership in Energy and Environmental Design (LEED AP)
Lighting Certified (LC)



Spokane County On-call Services

Past Performance

NAC's collaborative leadership and inclusive approach with clients and stakeholders have led to our reputation for facilitating an engaging and highly productive design process.

Budget Control

At the project's outset, we work with each client to develop a **Budget Cost Model** to identify cost and quality standards applicable to design components. As the design develops, decisions can be weighed against established budgets for each component. The cost model functions as a 'push-pull' tool that allows you and the design team to compensate for increased costs in one component area by reducing costs in another to maintain budget compliance.

Component costs can be weighed against other factors, including long-term maintenance, durability, erection times, aesthetic attributes, and other pertinent qualities associated with quality and life cycle costs, such that design decisions are appropriately balanced by **cost, quality, and endurance.**

At NAC, we focus on the following other key issues related to budget control:

- Manage the **project scope,** including size, site work, building systems, and special features.
- Track material and labor **cost trends**.
- Identify **risk areas** such as wetlands, poor soils, underground utilities, off-site work, hazardous materials, and hidden conditions.
- **Effective document coordination** and quality control will result in fewer RFIs and reduced risk for change order and schedule impacts. This has become increasingly crucial in a market where inexperienced contractors and workers are frequently involved in public work.
- Understand and monitor **schedule** requirements, including permitting. Time may be your most valuable asset and needs to be protected.
- **Added Value** - buildings cost money - an important role we play is assisting you in making effective decisions that add value, leveraging capital funds to lower ongoing operating costs.
- Engage independent **cost estimators** to confirm project scope and costs.

Value Engineering

NAC performs value engineering throughout its projects to use as a cost control tool and for alternative systems that will provide operational cost savings due to sound and effective life-cycle systems.

Our value engineering process explores design and construction system alternatives to a building project, which can benefit the project's long- and short-term capital needs. Through this type of analysis and design orientation, NAC has successfully achieved cost control in our projects.

Cost Estimating

The accuracy of our cost estimates and cost control is based on a detailed understanding of the scope of work and validation of budget estimation as the project develops. Our initial estimate will define the extent of committed resources as the work implementation progresses, developed utilizing several data sources such as Means, BDI, etc.

Our similar project experience will allow us to provide more accurate verification of costs. Combining data from computer-based estimating systems with contractor input and manufacturer information makes our estimated unit costs highly accurate. **Historically, NAC's successful track record on its electrical projects has typically been within 10% of the estimated construction budget.**

Examples of how NAC successfully developed the Owner's project scope while staying within the proposed budget.

PROJECT NAME	FACILITY TYPE	COST ESTIMATE	BID AMOUNT	PERCENT DIFFERENCE	BRIEF DESCRIPTION OF APPROACH TO STAYING WITHIN BUDGET
Lakeland Village Fiber Optic Replacement - #2016-447	Psychiatric	**Project Total:** $499,870	**Project Total:** $473,987	5.1%	Project was properly scoped and included multiple budget deliver-ables. Contractors and vendors provided feedback on relevant costs and material procurement.
Lakeland Village Infrastructure Phase 2 - #2018-402 G *(1-1)*	Psychiatric	**Project Total:** $4,189,671	**Project Total:** $3,199,676	23.6%	Low contractor bid was 12% below next two low bidders *(within $31,000 of each other)* Also, project bid during supply chain disruption.
Lakeland Village Infrastructure Phase 3 - #2020-419 G *(1-1)*	Psychiatric	**Project Total:** $3,573,500	**Project Total:** $3,029,631	15.2%	Contractors provided feedback on costs and procurement. First bid postponed due to Covid. Project rebid in September when many projects had been cancelled and contractors were bidding low to book work.
Spokane County Mental Health Crisis Stabilization Facility	Secure	**Project Total:** $840,593	**Project Total:** $848,446	0.9%	Project was properly scoped and costed. Worked with several trade partners to closely estimate systems.

WALLA WALLA COMMUNITY COLLEGE BUDGET CASE STUDY

DES approached NAC Engineering when Walla Walla Community College encountered a transformer issue. The medium-voltage transformer, which was approaching the end of its life, required replacement. The complexity arose from the fact that the transformer had been installed in the basement of an original campus building during its construction. Consequently, removing the failing transformer posed a unique challenge as it could only be accomplished by cutting it into pieces. Moreover, installing the new transformer seemed physically impossible due to the numerous obstacles such as hallways, corners, and doors, while also minimizing downtime.

NAC Engineering collaborated closely with the owner, contractor, and gear supplier to develop a comprehensive replacement plan. This involved strategizing the arrival of transformer components to the job site for final assembly, devising a meticulous movement and installation plan prior to decommissioning the existing transformer, and executing the final replacement. The team underwent several iterations to ensure that the project's final design not only met everyone's expectations but also prioritized feasibility, constructability, and cost-effectiveness.

Through effective coordination and innovative problem-solving, NAC Engineering successfully resolved the intricate challenges associated with this transformer replacement project. The collaborative efforts of all stakeholders resulted in a solution that surpassed expectations while ensuring minimal disruption to the college's operations.

Relevant Experience

The NAC Team has exceptional relevant experience to the Eastern State Hospital Additional Forensic Ward, including decades of renovation projects on the campus, especially the previous 2N3 Forensic Ward and the current 1N3 project.

Secure and Psychiatric Facilities

NAC's extensive knowledge of the campus' existing facilities provides us with a distinct advantage, allowing us to hit the ground running without unnecessary delays in familiarizing ourselves with the building, staff, and their expectations.

As a part of NAC Architecture, a renowned national healthcare design firm, NAC Engineering brings a wealth of expertise to the table. Our team possesses unparalleled depth of experience in behavioral health design, setting us apart from other electrical firms in the region. This specialized knowledge allows us to deliver innovative and tailored solutions that address the unique requirements of behavioral health facilities, ensuring optimal safety and functionality for patients and staff alike.

We continue to witness the evolution of behavioral care and treatment methodologies. It is essential to be informed, educated and active in the ongoing dialogue of healthcare design on a national, regional, and local level. As a result, we strive to stay ahead of the curve regarding the latest trends in healthcare delivery and behavioral treatment protocols. With our unique strength, NAC Engineering will ensure successful outcomes as your on-call electrical engineer.

Past Projects with Similarities

To provide a comprehensive overview of our capabilities, we are providing a portfolio with a diverse range of projects, spanning from the construction of new acute care hospitals with specialized psychiatric care units to the conversion of existing acute hospitals into behavioral health facilities. Our experience also encompasses multiple renovations of psychiatric residential care facilities and implemented measured patient safety improvements at established institutions.

All the project examples directly relate to the Medical Lake Campus and serve as a testament to our ability to meet the unique challenges and requirements of the campus.

A summary of how our relevant experiences met the same goals listed in the RFQ for the on-call project.

OWNER | PROJECT NAME | CLIENT	ALIGN SCOPE AND BUDGET	COMMUNICATE EFFECTIVELY WITH STAKEHOLDERS	MINIMIZE DISRUPTIONS TO THE AGENCY OPERATIONS	MAXIMIXE DESIGN AND CONSTRUCTION EFFICIENCIES FOR CONSULTANTS, AGENCY, & DES STAFF	MAINTAIN COORDINATED PROJECT SCHEDULE FOR COMPLETING DESIGN & CONSTRUCTION ON TIME	PRACTICE SUSTAINABLE DESIGN
Fiber Optic Improvements | DSHS Lakeland Village	×	×	×	×	×	
Inland Northwest Behavioral Hospital | UHS, Inc.	×	×		×	×	×
Electrical Infrastructure Upgrades, Phase 2 | DSHS Lakeland Village	×	×	×	×	×	
Electrical Infrastructure Upgrades, Phase 3 | DSHS Lakeland Village	×	×	×	×	×	
Walla Walla Community College| Medium Voltage Switchgear Replacement	×	×	×	×		
Walla Walla Community College| Medium Voltage Switchgear Replacement (Transformer	×	×	×	×		

FIBER OPTIC IMPROVEMENTS

DSHS Lakeland Village
Medical Lake, WA

PROJECT TYPE
Psychiatric, On-call

CONSTRUCTION DATES & BUDGETS
Start and finish dates: 2015 - 2017
Budget and final costs: $477,125 - $544,372

SIZE
8,000 LF

KEY PERSONNEL ON THE PROJECT
Jack Schneider

OWNER'S CONTACT PERSON
Kelly Lerner, Capital Programs PM
DSHS/OCP
Phone: 509-720-4875
Email: lernekj@dshs.wa.gov

A new underground electrical communications duct bank system with fiber optic cables was designed to connect the existing Lakeland Village campus buildings to a new central service room in building #4D31. Spare conduits were included to allow connection of a future voice-over-internet telephone network and other existing low-voltage systems such as a nurse call, building automation system, and fire alarm.

TREATMENT & RECOVERY CENTER

DSHS, Western State Hospital
Lakewood, WA

PROJECT TYPE
Psychiatric, On-call

CONSTRUCTION DATES & BUDGETS
Start and finish dates: 2023 - 2024
Budget and final costs: Estimate $17M; Bid $18.1M

SIZE
Modernization: 38,910 SF
New Construction: 8,710 SF

KEY PERSONNEL ON THE PROJECT
Jose Rios, Julie Allen, Kevin Santora

OWNER'S CONTACT PERSON
Lea McCormick, Construction PM
Facilities, Financial, & Analytics
Office of Capital Programs, WSDSHS
Phone: 360-764-0653
Email: lea.mccormick@dshs.wa.gov

NAC converted an existing two-story patient wing to a standalone forensic ward. Western State Hospital wanted to complement patient care with an environment that felt more comfortable and welcoming than a traditional behavioral health forensic ward. The remodel included a secure exterior courtyard to provide patients safe access to the outdoors. NAC Engineering provided a high level of care and consideration when developing the design to provide new LED lighting and lighting controls, new branch distribution system and generator, upgraded telecommunication infrastructure serving the wards, new access control system, extension of existing security systems, overhead paging, audio/visual, and a new VESDA smoke detection system that natively communicates with the building's existing fire alarm system.

Since the building is served from multiple primary owned service loops, a building and campus assessment was required to determine available system capacities. In collaboration with the DSHS project manager and Tacoma Power Utility (TPU), we obtained the required data and completed design calculations to prove the new electrical design was within existing systems capacities. The result is a visually pleasing and calming forensic ward that provides a warm, non-institutional feel, but with the durability to withstand the intense activity of a forensic ward..

INLAND NORTHWEST BEHAVIORAL HEALTH

UHS, Inc.
Spokane, WA

PROJECT TYPE
Psychiatric, Integrated Project Delivery

CONSTRUCTION DATES & BUDGETS
Start and finish dates: 2015 - 2018
Budget and final costs: $32,180,165 - $31,053,449

SIZE
65,000 SF

KEY PERSONNEL ON THE PROJECT
Jack Schneider, Andy Phan, Julie Allen

OWNER'S CONTACT PERSON
Rylnn Wickel
CEO
Phone: 509-992-1888

This new 100-bed behavioral health hospital just opened on an urban site adjacent to the Providence Sacred Heart Medical Campus. Built on a slope, the lower level contains the public programs and nestles into the hillside. Patient bedrooms and support spaces occupy the two floors above. The x-shaped plan separates different populations into four distinct wings and centralizes staff for security and operational efficiencies. Sleeping areas are consolidated within the south half of the building away from the interstate noise. At the exterior, a masonry base provides protection against the urban environment. Metal ribbed panels at the second and third levels provide shadow pattern and texture to be read at the urban scale. Composite panels surrounding the courtyard spaces provide colorful inviting spaces for patients to relax outdoors in a non-institutional environment.

ELECTRICAL INFRASTRUCTURE UPGRADES, PHASE 2

DSHS Lakeland Village
Medical Lake, WA

PROJECT TYPE
Psychiatric, On-call

CONSTRUCTION DATES & BUDGETS
Start and finish dates: 2017 - 2019
Budget and final costs: $4,189,671 - $3,199,676

SIZE
Lakeland Village Campus

KEY PERSONNEL ON THE PROJECT
Jack Schneider, Andy Phan

OWNER'S CONTACT PERSON
Joe Veliz, RHC Facility Services Administrator
Lakeland Village
Phone: 509-299-1014
Email: velizjd@dshs.wa.gov

The Phase 2 project includes replacement of generators, transformers, switches, and medium voltage cable in both the north and south campus loops. The failing generators in the Chiller plant and the Rosewood building a\\ were pulled out and replaced by twin generators in a new yard located west of the Chiller Building. The generators were also sized to handle the campus chillers so temperatures in the cottages can be maintained within the limits established by federal rules applicable to Medicare/Medicaid patients. In general, the LV north cottages are classified as Assisted Living (ICF) and the south cottages as Nursing (NF). Each of the cottages has several normal power panels and one Emergency Power panel but the Emergency power is not divided into branches as is required by code. This project includes separating the branches and installing new Life Safety panels in the cottages.

ELECTRICAL INFRASTRUCTURE UPGRADES, PHASE 3

DSHS Lakeland Village
Medical Lake, WA

PROJECT TYPE
Psychiatric, On-call

CONSTRUCTION DATES & BUDGETS
Start and finish dates: 2019 - 2023
Budget and final costs: $3,573,500 - $3,029,631

SIZE
Lakeland Village Campus

KEY PERSONNEL ON THE PROJECT
Jack Schneider, Andy Phan

OWNER'S CONTACT PERSON
Joe Veliz, RHC Facility Services Administrator
Lakeland Village
Phone: 509-299-1014
Email: velizjd@dshs.wa.gov

Replacement of failing electrical gear and installment of new Life Safety panels in existing buildings on the Lakeland Village campus. Full specs are needed for competitive bidding.

MEDIUM VOLTAGE SWITCHGEAR REPLACEMENT (SWITCHBOARD)

Walla Walla Community College
Walla Walla, WA

PROJECT TYPE
Community College, Job Order Contract

CONSTRUCTION DATES & BUDGETS
Start and finish dates: 2020 - 2021
Budget and final costs: $140,000 - $140,000

SIZE
12470 volt switchgear

KEY PERSONNEL ON THE PROJECT
Jack Schneider

OWNER'S CONTACT PERSON
Jeff Gonzalez
Project Manager
Phone:360-407-7942
Email: jeff.gonzalez@des.wa.gov

The 12,470 volt, three phase, 600 amp bus medium voltage switchgear was failed in the ON position. The work included replacing the switchgear under a base bid. The project was allocated $140,000 under Job-Order-Contract.

MEDIUM VOLTAGE TRANSFORMER REPLACEMENT

Walla Walla Community College
Walla Walla, WA

PROJECT TYPE
Community College, Job Order Contract

CONSTRUCTION DATES & BUDGETS
Start and finish dates: 2022 - 2023
Budget and final costs: $450,000

SIZE
Two transformers

KEY PERSONNEL ON THE PROJECT
Jack Schneider

OWNER'S CONTACT PERSON
Rob Lenahan, Executive Director, Facilities
Walla Walla Community College
Phone: 509-527-4571
Email: robert.lenahan@wwcc.edu

During a previous project, it was determined that several medium-voltage transformers had reached the end of their lifespan and required replacement. These transformers had been installed during the building's construction phase, resulting in limited access for their removal and installation due to existing hallways, corners, and doors. To overcome these constraints, a comprehensive design and plan was created. New transformers were orderd in a "Knocked Down" state, meaning they would be partially assembled upon delivery. Careful planning was conducted to ensure the new transformers could be delivered and positioned while the existing ones remained operational. A coordinated shutdown strategy was implemented, allowing for the targeted removal of the old transformer and the installation of the new one, with minimal downtime.

As a Job Order Contract, NAC Engineering had the advantage of working directly with the contractors and stakeholders, enabling better cost control and streamlined communication. By leveraging our expertise and collaborating closely with all parties involved, we were able to develop a practical and efficient solution that addressed the installation constraints and ensured a smooth transition to the new transformers, without major interruptions to the facility's operations..

Business Diversity Strategies

Our world can always be more humane. This is what motivates us at NAC. We believe in the power of buildings to shape culture and improve interactions for people.

Designing for Belonging

NAC's creative and thoughtful design process for medical campuses result in improving healthcare access and delivery, reducing opportunity gaps, and producing culturally responsive environments.

As an integral part of our process, we place great importance on fostering diverse and inclusive teams, while also incorporating mentorship and leadership development within our work. We prioritize the integration of MWBE/SBE/VBE partner firms and diligently track the percentage of our design fee allocated to them on an annual basis. In the past four years, we have achieved an impressive milestone of nearly 20% for select projects, consistently maintaining a range of 12-15%. Furthermore, we actively seek opportunities to forge new connections with prospective partners, continuously expanding our network.

Internal Diversity Approach

NAC also makes it a focus to hire, support, and mentor women and people of color to strengthen the diversity of our teams and the quality of our work. We have established a JEDI (Justice, Equity, diversity, Inclusion) group to inform and guide our efforts for continual improvement. To better understand our makeup, we also track our own demographics, which currently include 55% women, 26% people of color, and even distribution of different age and experience levels.

Additionally, we track NAC's diversity representation on projects. An example is our most design for the new Quincy Medical Center. As a firm, 68% of the total hours to date were performed by women and/or people of color. Our inclusive work environment is integral to our culture and practice, and we are dedicated to strengthening this experience in our work with you.

STATEMENT OF QUALIFICATIONS

1. PROJECT NUMBER (if any): 2023-422

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work. Limit one page per office)

2a. FIRM (OR BRANCH OFFICE) NAME (LEGAL NAME ON FILE WITH THE OHIO SECRETARY OF STATE)			3. YR ESTABLISHED	4. FTID NUMBER
NAC Engineering			1960	91-1086202
2b. STREET 1203 West Riverside Avenue			5. OWNERSHIP a. TYPE	b. SMALL BUSINESS STATUS
2c. CITY Spokane	2d. STATE WA	2e. ZIP CODE 99201-1107	Corporation	n/a
6a. POINT OF CONTACT NAME AND TITLE Jack Schneider, PE, Principal	6b. PRESIDENT / CEO Dana Harbaugh		7. NAME OF FIRM (If Block 2a is a branch office.) n/a	
6c. TELEPHONE NUMBER 509-838-8240	6d. E-MAIL ADDRESS jschneider@nacarchitecture.com			

8. FORMER FIRM NAME(S) (If any)

Northwest Architectural Company; Jubany Architecture; Tan-Brookie-Kundig Architects; TBK Architects; TSG/Architects; Trogdon-Smith-Grossman Architects; AR7 Architects; Hoover, Desmond, Berg Architects

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) LICENSED	(2) NON-LICENSED			
03	Electrical Engineer	4	2	018	Communications Systems; Voice Data	3
47	CADD Drafting/Scanning/Photography	2	5	019	Educational Facilities, Classrooms	4
				214	Electrical Studies and Design	1
				F024	Fire Alarms	1
				209	Field Houses; Gyms; Stadiums	1
				048	Hospitals/Medical Facilities	2
				050	Housing/Group Homes	1
				058	Laboratories; Medical Research Facilities	1
				060	Libraries	1
				061	Lighting (Interior; Display; Theater; etc.)	3
				088	Lighting (Exteriors; Streets; Memorials; Athletic Fields; etc.)	2
				096	Security Systems; Intruder & Smoke Detection	1
				030	Gyms, Stadiums, Field Houses	3
	Other Employees	n/a	n/a			
	Total	**6**	**7**			

11. TOTAL REVENUES FOR LAST 3 YEARS (Insert revenue index number shown at right)	
a. Federal Work	3
b. Non-Federal Work	9
c. Total Work	9

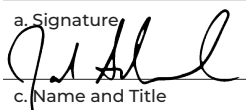
REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $100,000,000
5. $1,000,00,000 to less than $2,000,000,000
6. $2,000,000 to less than $5,000,000
7. $5,000,000 to less than $10,000,000
8. $10,000,000 to less than $25,000,000
9. $25,000,000 to less than $50,000,000
10. $50,000,000 or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. Signature



a. Date: June 8, 2023

c. Name and Title: Jack Schneider, PE, Principal

NAC

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Los Angeles / Columbus / Seattle / Spokane