



STRUCTURAL

Our structural engineers enjoy design challenges. We collaborate with the project team, providing seamless integration of structural design into the most intricate and beautiful architectural designs. Our engineers use practiced intuition and advanced modeling tools to understand how a structure will behave. We then apply our experience and creativity to develop cost effective and practical structural solutions.

- Schematic and conceptual design
- Building structural design
- Vehicle and utility bridge design
- Catwalk and process platform design
- Shallow and deep foundation design
- Unreinforced masonry building retrofit design
- Seismic analysis and strengthening

Kyle Moyer, P.E., Associate, Division Manager

Kyle has more than 12 years of experience covering a wide variety of projects. His primary areas of expertise including structural design and engineering of building system and connections, catwalks, rigging systems, welding and constructability. Kyle has worked on projects of varying size; from small to large with clients domestically and internationally. As Division Manager, Kyle is responsible for overseeing the performance of the structural division both internally and externally.



Relevant Experience



Silver Oak Winery
Planning/Permitting, Civil, Structural,
Water/Wastewater Engineering Services

Cordelia Winery

Cordelia, CA

Summit supported a fast-track construction schedule on this winery production facility, providing planning and entitlement services, civil engineering, structural engineering, electrical engineering and wastewater engineering services. The process wastewater treatment system was designed utilizing a package treatment system from Cloacina. The wines tanks were designed to be anchored using OnGuard system from New Zealand, providing enhanced protection from earthquake compared to the traditional methods.



Davis Estates

Calistoga, CA

Architect: Backen, Gillam & Kroeger

Contractor: Ledcor Construction

This project included the restoration of a historic barn and construction of a new winery, administration building, and drilled wine caves with cut-and-cover entry structures leading to three separate entrances. Summit collaborated with the architect and contractor and prepared the carefully orchestrated restoration of a historic barn meeting current building codes while maintaining its original character. Summit's services for this project include use permit assistance, water, wastewater, civil, structural, and electrical engineering design.



Nine Suns

St. Helena, CA



Architect: Signum Architecture

Nine Suns Winery sits at nearly 1,400 feet above sea level facing southwest, where visitors can enjoy panoramic views stretching from across the SF Bay area to Mt. Diablo. A sunken production facility has direct access to the caves, and a living roof steps down to ground level, blurring the line between building and hill, providing natural cooling. A 30kw solar energy system provides 100% of the energy needed during non-harvest time operation. Summit provided structural, electrical and lighting design for this new winery facility which includes a hospitality campus, production facility, offices, commercial kitchen, caves, landscape features and walkways.



Progeny Winery

Napa Valley, California

Architect: Juancarlos Fernandez
Signum Architecture

The Progeny Winery tasting room and administration building are situated on top of a peak in the hills to the west of Napa Valley, near Mt. Veeder. The steel framed roofs cantilever and float above the concrete frames below. The exposed concrete frames serves as special moment frames to support the building, while providing architectural value to achieve a distinct appearance, allowing the building to express the structural elements with simplicity.



Silver Oak Cellars

Alexander Valley, CA

Architect: Sagan Piechota Architecture

Summit provided assistance with use permitting, process equipment layout for grape receiving, crushing, pressing and winemaking functions for this new 120,000 case facility. Services included planning/permitting, civil, structural, water/wastewater engineering.

Summit assisted in the use permitting strategy that resulted in an approved use permit for annual production of up to 100,000 gallons (approximately 41,000 cases) and 25 events per year with a maximum of 1,000 guests.

Summit worked with the Silver Oak Cellars team to prepare for neighbor meetings and negotiate the approved marketing plan. Due to workload and time constraints the County allowed Summit to draft a portion of the Negative Declaration.

Summit was responsible for the condition compliance for the applicant. A spreadsheet became the common language that allowed a smooth transition when the County planning staff changed. Summit facilitated the release of the building permits including the facility unique water reuse program. This effort included a report explaining the multitude of regulatory agencies and the codes that allowed this reuse and documentation to assist with the Living Building Challenge and LEED applications.

