



CIVIL

Intelligent site designs incorporate input from the entire project team. Summit's Civil Engineers create designs that are functional and sustainable while addressing the technical challenges of the site. Our solutions are sensitive to the aesthetic goals of projects without compromising functionality. Our engineers are trained to listen carefully and put the needs of the project team first—this is how our most creative solutions come to life.

- Due diligence • Feasibility studies • Entitlement assistance • Erosion control • Storm water management
- Grading and drainage • Hydrology and hydraulics • Roadway and parking improvements • Site utilities
- Site work • Construction and industrial storm water compliance

Summit's civil engineers work on projects throughout California and have unparalleled experience in winery engineering. We efficiently tackle your typical grading, drainage, roadway, and utility work. Plus, due to our years of specialized winery work, we are able to provide more than you would expect from your civil engineer.

Jasper Gehring, P.E., Principal, Civil Division Manager

Jasper leads a team of highly skilled licensed civil engineers and design professionals and provides review and guidance on design decisions. Jasper has over 19 years of experience in design engineering, specializing in sustainable and low impact development (LID), storm water, grading, municipal and private utility systems, flood management, hydrology and hydraulics modeling, and roadways. Jasper focuses on client service and organizing multi-discipline teams to address clients' specific needs. Jasper has certifications for construction and industrial stormwater management from the State of California, and has experience with permitting Regional Water Quality Boards, Department of Fish and Wildlife, US Army Corps, CalTrans, and various flood plain management districts.



Relevant Experience



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

Bogle Winery

Clarksburg, CA



Architect: Kalpo, Hom, & Dong Architects

Contractor: Rudolph & Sletten

The Bogle Delta Facility was designed to process 30,000 tons of grapes per year and features 250,000 square feet of winery buildings. Summit provided planning, permitting and comprehensive design services for this ground-up, fast paced project so that grapes were received for harvest less than one year from being engaged by the Bogle family.

Summit's Civil services included site layout, circulation planning, underground utility planning, grading drainage, and stormwater management engineering.



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.

Summit's Civil services included conceptual site layout, floodplain engineering, storm water management, site circulation and vehicle queuing, frontage improvements, parking lot and loading dock engineering, accessibility design, and underground utilities.



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.

Summit's Civil services included stormwater/process wastewater diversion, site circulation and multi-level vehicle access, frontage improvements, grading and drainage for outside visitor spaces, accessibility design, and underground utilities.



Merced County Winery

Livingston, CA

This project includes a waste-to-energy anaerobic/aerobic digestion facility which produces irrigation quality effluent and bio-solids with fertilizer value. Summit provided high level treatment systems expertise that typically resides with the experienced vendors. Summit helped bring back focus on project goals and costs which allowed the facility to move forward with design and construction. Bio-methane produced from the anaerobic digestion is fed to CHP engines for electricity. Excess heat from engine operation to be utilized for various heating needs for the treatment processes. Net positive metering of electricity back to the grid. Biosolids created from treatment will have fertilizer value.



Sonoma County Winery

Geyserville, CA

Summit led efforts for the overall winery expansion wastewater, water, civil, structural, and electrical system improvements. In addition, Summit assisted with increasing the entitlement for the facility to support greater hospitality goals.

Design and permitting of improvements to allow for expansion of the winery hospitality for facilitating large events increasing total sanitary sewage flows by a factor of 10. Replacement of the existing in-ground system with a new membrane bioreactor (MBR) system with surface re-use on existing vineyards.

Summit's Civil services included site circulation, parking design, hospitality hardscape grading drainage and circulation. As well as complex underground utility upgrades including mapping and incorporating existing utility systems.



Franciscan - The Prisoner Wine Company

Oakville, CA

Summit provided process planning, use permit application assistance, civil engineering, structural engineering, and electrical engineering services for the new receiving area and crush pad, converting the existing Franciscan receiving area to a process area for the new Prisoner Wine Company. Parallel to that project, Summit also provided project management and electrical engineering service to the hospitality remodel project, renovating the existing hospitality space to create a new branding and image for the Prisoner Wine Company.

Summit's Civil services included site layout planning, grading, drainage, and stormwater/process waste management, storm water low impact development (LID) design, and Caltrans highway permitting.



Kenwood Winery

Kenwood, CA

Summit provided assistance with use permitting, process equipment layout and process flow for grape receiving, crushing, pressing and winemaking functions to increase production to 500,000 cases. Services included civil, structural, electrical and water/wastewater engineering, and a wastewater feasibility study.

Summit's Civil services included site circulation, water and fire storage tank design, underground utility improvements, equipment layout and horizontal control, stormwater/process waste diversion, and grading, drainage, and roadway design.



Kenzo Winery

Napa, CA

Architect: Backen, Gillam & Kroeger

Contractor: Schmitt & Company

Summit provided Use Permitting and site design for 85,000 gallon facility. Site design includes a two mile entrance road, with CalTrans coordination and structural and electrical design for two fermentation buildings totaling 8,800 square feet and a 1,500 square feet hospitality building.

Summit's Civil services included Caltrans Highway improvements, entrance and new 1.5 mile long access road and bridge, site circulation, and grading drainage and utility design.



Seghesio Winery

Healdsburg, CA



Summit provided assistance with use permitting, process equipment layout and process flow for grape receiving, crushing, pressing and winemaking functions for a new 250,000 case fermentation facility. Services included civil, structural, electrical and water/wastewater engineering.

Summit's Civil services included demolition planning, site circulation, tank layout and access geometry, fire protection piping improvements, grading drainage, and stormwater/process waste management.



Stag's Leap Wine Cellars

Napa, CA

Summit provided civil engineering design for the winery's new tasking room.

Summit's Civil services included site layout, parking lot and accessible path design, selecting building orientation to line up with specific view, site circulation and frontage improvements, fire protection piping improvements, grading drainage, and stormwater detention system.

