

QUALIFICATIONS



Construction Management Engineering Services
US 40 Fraser Pedestrian Trail
Improvements
Federal Highway Safety
Improvement Program and Safe
Routes to School Program
Town of Fraser

June 18, 2018

VC&A Contact (and Proposal Preparer) Mike Leister, PE, CCM,
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1. Qualifications, Projects, and References

Meet Vali Cooper & Associates

Celebrating 30 years in business, Vali Cooper & Associates (VC&A) is a leading provider of construction management, inspection, and stormwater compliance services to public sector clients in California and Colorado. VC&A is currently ranked No. 45 in *Engineering-News Record's* list of Top 100 Construction Management (CM) firms in the nation, and No. 11 as a pure CM firm.

Having held hundreds of contracts for road, bridge, and utility projects representing owners in multiple states, ***VC&A is regarded as the leader in the industry providing CM services.***

VC&A is known for bringing personal service to each of our projects. Our commitment to exceed project expectations, flexibility to rapidly deploy expert staff, and responsiveness to changing project demands are the



Legal Name: Vali Cooper & Associates, Inc.

Established: 1987

Type of Organization: Corporation

Number of Staff: 200+

Number of Offices: 9

Office Locations:

- Centennial, Colorado
- Carlsbad, California
- Emeryville, California
- Lathrop, California
- Lincoln, California
- Orange, California
- Riverside, California
- Sacramento, California
- San Luis Obispo, California

Services Provided:

- Construction Management/Inspection
- Program/Project Management
- Owner's Representative
- Storm Water Programs/Planning/Training
- Engineering/Building Plan Check
- Staff Augmentation

hallmarks of our practice. We will maintain this philosophy on the Town of Fraser's project – from project start-up through closeout. This approach will provide the framework for meeting the day-to-day challenges that are a commonplace in the construction industry.

VC&A also brings first-hand knowledge of the latest advances in the technologies, processes, and methods used to manage the construction of a broad range of projects. Our firm has played a major role in the management of building critical infrastructure, providing turnkey CM services for highway and roadway widening, new alignments, and rehabilitation; roadway pavement; bridge replacement; interchange reconstruction, roundabouts, retrofit, and widening; water and wastewater treatment, distribution, conveyance, and storage systems; storm drainage systems; and landscaping projects all with a total construction value well in the billions.

Colorado Operations

VC&A has been providing CM services in Colorado since 2015. Our principal-in-charge, Dave Conover, CCM, and our project manager, Mike Leister, PE, CCM, bring over 80 years of combined experience working both as owners and practitioners in construction management.

The US 40 Pedestrian Trail Improvements Project will be managed from our local office in Centennial, Colorado. The office is fully equipped and staffed with all the necessary equipment, systems, and plans and procedures to successfully support remote projects. Our staff are fully equipped to operate in the field, including remote locations, while maintaining up-to-date document control and communications.

VC&A recognizes its primary task is to represent 100% of the Town's best interests in meeting your goals and objectives. We operate under the premise where VC&A is perceived as a seamless extension to the Town's staff.

VC&A's Professional and Support Staff

VC&A employs a deep bench of over 200 CM professionals and supporting staff in nine offices in Colorado and California. Our staff roster features project managers, construction managers, resident engineers, plan checkers, inspectors, schedulers, cost estimators, and contract administrators. VC&A's staff



accommodate intersection and widening improvements, additional auxiliary lanes, bike lanes, detached sidewalk, new signals, signal control equipment, traffic islands, drainage facilities, box culvert extension, and relocation of a City water main. VC&A worked closely with the City of Steamboat Springs during the project and developed a strong working knowledge of the City's and neighboring cities' and towns' standards.

VC&A's staff has also successfully completed several highway reconstruction projects, including the following.

**I-70 Westbound Georgetown Overlay
Colorado Department of Transportation**

The project involved the removal and replacement of 3-inch MHA pavement from Exit 228 (Georgetown truck chain up area) to Exit 216 (Loveland Pass); guardrail safety improvements; and culvert and drainage way cleaning along the entire corridor. The project was located on both the westbound and eastbound lanes of the high angle graded Georgetown Hill.

Reference: Gus Beiber, Atkins Project Engineer, (303) 221-7275

Budgeted Cost/Cost at Completion: \$1.8 million/\$1.8 million

**I-70 Peak Period Service Lanes through Idaho Springs
Colorado Department of Transportation**

The project involved the expansion of the highway and the addition of two new bridges within the town limits. The 18-mile-long project was completed on a tight timeline despite multiple challenges due to mountain construction, short seasons, heavy traffic, and patterned paving with colored concrete designs.

Reference: Jim Martin, Atkins Project Engineer, (303) 221-7275

Budgeted Cost/Cost at Completion: \$20 million/\$20 million

**Bellvue Water Treatment Plant Improvements
City of Greeley**

The project involves providing Owner's Representative services on a new 25 MGD conventional water treatment plant.

Budgeted Cost/Cost at Completion: \$25 million/TBD

Reference: Adam Prior, PE, Chief Engineer, (970) 350-9875

**US-40 Steamboat Springs West
Colorado Department of Transportation**

The project involves intersection improvements, widening of US-40 and Elk River Road, new signals, and relocation of City water mains.

Budgeted Cost/Cost at Completion: \$6.5 million/\$6.5 million

Reference: Cole Rising, CDOT Region 3 Project Engineer, (970) 629-2660

**La Sal Mountain Loop Road
FHWA, Central Federal Lands Highway Division**

The project involves the reconstruction of 10 miles of roadway, installation of MSE walls, and culverts.

Budgeted Cost/Cost at Completion: \$10.7 million/\$10.7 million

Reference: Debra Mullenex, PE, CFLHD Construction Manager, (303) 881-9479

2. Project Understanding

The Town of Fraser is seeking a qualified CM firm to assist with the construction phase of the US 40 Pedestrian Trail Improvements in downtown Fraser. The one-mile-long improvements project is funded through grants from the Safe Routes to Schools (SRTS) program and the Highway Safety Improvements Program (HSIP), as well as through the FHWA.

The SRTS project involves enhancements to the existing school zone crosswalk at Fraser Avenue and a new crosswalk at US 40 at Byers Avenue. Construction work includes areas of new sidewalk, replacement of curbs and gutters, installation of center medians, and landscaping and new crosswalks.

The HSIP project will add safety enhancements to a third, existing crosswalk of US 40 located at the Fraser Post Office. The project also involves implementation of additional overall traffic calming measures intended to

construction industry experts who possess both a keen desire to succeed and know the importance of collaboration and thorough documentation. We believe in a collaborative approach with everyone – including the designer and contractor – **to get the job done right the first time.**

There's one word that best describes the overall approach of the VC&A team – **proactive**. To be successful, we must stay one step ahead of the contractors and anticipate potential problems and issues early on before they affect the project schedule, costs, and quality. VC&A's proactive approach will keep you well informed (**no surprises**) of the issues and progress of the project, including a constant review of those issues, risks, and trends.

We operate under a "One Hard Hat" premise where VC&A is perceived as a seamless extension to the Town's staff. We represent 100% of your interests during the project. Project goals are clearly communicated and a system of accountability is implemented so that the slightest detail is not overlooked. Construction issues and risks are common to almost every project. Our approach is to quickly recognize, document, communicate, and develop sound solutions before they affect a project. Our objective is to have **no surprises** and **zero claims**.

Our local team will capitalize on our strengths and experience by:

- Providing experts in construction management as it relates specifically to the US 40 Pedestrian Trail Improvements Project
- Being proactive
- Taking ownership
- Discovering conflicts early on before they affect the schedule, budget, and quality
- Resolving issues at the lowest level and as soon as possible
- Thinking and talking in the field to develop sound solutions
- Getting team agreement on a roadmap for resolving issues
- Being professional and respectful
- **Document – document – document.**

Scope of Services

VC&A's team of construction management professionals will ably manage the time, cost, scope, and quality of work performed during construction of the US 40 Pedestrian Trail Improvements Project. Our objective is for the contractor to deliver a quality project, safely, on schedule, within budget, and in conformance with the contract documents.

General:

- Meet regularly with the Town of Fraser's project manager and assigned staff and design engineer.

Phase I: Pre-Construction

- Kick-off workshop with the Town of Fraser, the Town's design engineer, and CDOT's local agency engineer to start the process and review roles and responsibilities.
- We recommend doing a risk assessment and register that will start off with incorporating thoughts and comments from the Town, the Town's design engineer, and VC&A. Once construction has begun, we will then include the contractor, placing the risk with the party most capable of managing said risk and developing mitigation measures to avoid or minimize any impacts.
- Prepare a project-specific Construction Management Plan that includes the roles and responsibilities of the construction manager, the Town, design engineer, and other stakeholders. Our Construction Management Plan will address scope, coordination and communications protocols, risk management, quality control and assurance, health and safety, document control, permit compliance, and security management, if applicable. Our Construction Management Plan will include supporting procedures and various forms that will be used.
- Become intimately familiar with the project's construction documents, including all permits, to thoroughly understand, enforce, and document the contractor's compliance.
- Provide constructability review comments, at the Town's direction, on the project's plans and specifications. The review comments will focus on improving biddability and constructability,

CDOT's requirements. Reports will be current and include controlling work items, construction activities, scheduled work not performed, calendar day of contract, weather, contractor and subcontractors labor workforce and equipment, workmanship, quality of work, quantity of work completed, issues discovered, deliveries to site, testing, communication in the field, defective work, and corrected work.

- Prepare Weekly Statement of Working Days, including controlling work items.
- Provide continued proactive review of plans, specifications, and progress of work to minimize impacts to the project schedule, cost, and quality.
- Witness and verify condition of materials and equipment delivered and stored are in accordance with the contract documents.
- Issue Non-Conformance Report (NCR) on defective work and/or materials, and document resolution per contract requirements.
- Review the contractor's inventory control.
- Coordinate required material testing.
- Coordinate off-site equipment or materials inspection, if required, and arrange for inspections as necessary.
- Coordinate and track results of the activities of testing laboratories, surveys, and special inspectors, including weld inspections as needed.
- Coordinate with the Town's staff and other agencies, as needed.
- Provide digital pictorial logbook of construction activities, progress, areas of concern or interest, and corrections.
- Receive, log, and process all RFIs and clarifications with the consultant(s) for quick response to the contractors. Maintain RFI log and review at weekly progress meetings.
- Issue prompt written clarifications and interpretations of the contract documents in response to requests by the contractors.
- Receive, log, and process all submittals, including substitution request. Review those submittals that are appropriate and respond to the contractor. Submittals requiring review by the design engineer will be transmitted and tracked for review. Maintain Submittal Log and review at weekly progress meetings.
- Review and compare the detailed list of submittals prepared by the contractor with contract specifications for both materials and equipment.
- Quantify problems caused by unforeseen site conditions. In conjunction with the contractor, analyze and seek solutions to problems in the field. No cost or time impact solutions to field issues will be documented by field order. Solutions with an associated cost will be handled as a potential change order and negotiated with the contractor.
- Prepare Change Order Request (COR), Potential Change Order (PCO), and/or Change Orders (CO), including findings of fact, record of negotiation, and fair cost estimate in accordance with the Town's and CDOT's processes. All change orders will be reviewed for entitlement and merit to ensure that the work in question is not part of the contract work. Any time extension will also be documented in an approved change order.
- Receive and evaluate all notices of potential claims and make recommendations to the Town.
- Document information related to manpower, equipment, and time for extra work or force account work.
- Promptly respond and transmit clear written requests for information and/or clarifications and change orders. Handle filing and routing of communications among the contractor, Town's design engineer, and the Town, as needed. Issue field directives as required.
- Receive, review, and recommend contractor progress payment applications. Payment applications will include original contract amount, previous payments, retention, change orders approved, current amount due, and amount remaining in contract.
- Receive the contractor's certified payroll and submit with Progress Pay Application if required by the construction contract.
- Review and analyze contractor's initial baseline schedule, monthly schedule updates, and 3-week look-ahead schedules for completeness in regards to the contract documents. Request recovery schedules and Time Impact Analysis (TIA) as appropriate. Track delays or

Document Control System (if requested)

In this age of electronic collaboration and efficiency, VC&A has used and is experienced in just about every document control system available. One of the systems we find to be a very useful and user-friendly is Procore. For a nominal cost of \$80 per project per month, Procore provides all users, including the client, contractor, consultant, and the construction manager, with real time information to manage the project and provide historical information as needed.

Procore is a cloud-based construction management software that VC&A utilizes to manage our projects. With this web-based platform, we are able to manage our projects in real time, while providing full accessibility to all project team members such as the client, designers, contractors and subconsultants. This allows for increased project efficiency and accountability while streamlining and mobilizing project communications and documentation. VC&A utilizes the program to track and manage all aspects of the project from RFI's and submittals to progress payments and change orders. This allows the client to have full access to all aspects of the project providing real time information on project status both from a time and financial perspective.



In addition, various collaborative features within the program allow us the ability to manage project oversight to keep the project on-time and under budget while providing a centralized location for all project information. Additional features include:

- ✓ Financial tracking: track progress payments, change orders, and potential change order conditions
- ✓ Submittals & RFI's: paperless system integrating all team members for seamless flow and continuous tracking
- ✓ Document management
- ✓ Drawing management: catalogued drawings with the ability to perform real time as-builts and identify field conditions for collaboration with the Consultant
- ✓ Meeting minutes
- ✓ Project photo archiving
- ✓ Daily reports: field activity reporting, quantity tracking, and non-compliance punch list
- ✓ Schedule integration: ability to track construction progress versus baseline schedule projection

- ✓ Mobility: full suite of mobile apps for smartphones, Apple, Android, and iPad tablets allowing access to all project documentation and the ability to input daily work activities, photo archiving, and punch list and drawing markup for real time field condition and issue collaboration with project team.

Project Completion On-schedule and Within Budget

Schedule and cost control are critical to any construction contract. VC&A has a reputation for delivering on time and within budget. With the strong experienced team proposed by VC&A, the Town can have confidence that your project will be correctly and thoroughly managed in the most effective and efficient manner possible. VC&A applies a "hands-on and firm, but fair" approach, creating a collaborative relationship with all parties. Our team's relevant experience enables us to troubleshoot problems in advance and develop cost effective solutions to keep the project on schedule, within budget, and moving forward at all times.

Safety

Safety is paramount on construction sites. Construction work entails a broad spectrum of activities, many of which are inherently dangerous, creating an incident-free construction site requires more than just complying with the myriad regulations that govern construction activities—it demands a **culture of safety** embraced by all levels of an organization. At VC&A, every person working on a project practices accident prevention. Our personnel approach their work with a safety-first attitude and undergo rigorous safety training, including 10, 30 and 40-hour OSHA, Confined Spaces, and Fall Protection. We take a proactive role in job site safety by participating in the contractor's safety meetings and promoting the concept of Safe Production, which is based on daily pre-task planning that identifies the proper way to complete a task. Defining work in this way allows construction crews to utilize a work plan that integrates production goals and safe practices.

This eliminates the conflict of choosing production over safety and provides a simple, measurable performance metric for safety. This method has produced unprecedented safety results and drastically reduced injuries, incidents, and accidents for construction crews.

partnering and collaborating with clients, contractors, and stakeholders, to identifying and implementing opportunities to accelerate project delivery, to completing the project close-out process quickly and efficiently.

Our key project staff has extensive experience coordinating and negotiating with multiple regulatory agencies, including the Federal Highway Administration, CDOT, U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, several local Colorado agencies, and utility company representatives. Their long-term, established relationships with responsible agencies will facilitate timely coordination and swift resolution of potential issues on the upcoming projects.

This section of our proposal provides brief biographies of proposed key project staff. Resumes for our proposed staff are provided at the end of our proposal.

Dave Conover, CCM, FCMAA, ENV SP
Principal-in-Charge

A Colorado native, Dave Conover has been a pioneer and leader in the construction management industry for over 40 years. He has served as Chairman of the Board of Directors of the Construction Management Association of America (CMAA) as well as on countless committees, including developing the body of knowledge and authoring the Standards of Practice, promoting professionalism and excellence in the management and delivery of projects and programs in the construction management industry. He also served on the Professional Advisory Development Board (PADB) for Construction Management at Colorado State University. He has led teams providing construction management services on capital improvement projects across the country.

Mike Leister, PE, CCM
Contract/Project Manager

Mike Leister's career includes an impressive 36 years at Denver Water, where he managed both design and construction of capital improvements and served as Chief of Construction Management for 15 years. His projects have included roadway improvements and all sizes, materials, and types of mains, interceptors, pipelines, pump stations, reservoirs, utility vaults and associated site development. His passion is working with staff and public agencies with the end goal of delivering high quality and value-added services to their

projects all within budget and on schedule. His portfolio features several local projects, including the \$6.5 million US 40 Steamboat Springs West for CDOT, which involves the construction of three sites, including intersection improvements, widening, auxiliary lanes, bike lanes, detached sidewalk, new signals, drainage facilities, and relocation of city water mains; the \$10.7 million La Sal Mountain Loop Road, which involved construction of over 10 miles of roadway reconstruction and widening, MSE wall installation, new culverts, and gravel quarry and crushing operations; and the City of Greeley's \$25 million Bellvue Water Treatment Plant, responsible for Owner's Representative services using CMAR delivery method.

Mr. Leister will be VC&A's primary point of contact with the Town and responsible for all assignments, deliverables, communication, and oversight for the work under this contract.

Ronald Clem
Construction Inspector

An accomplished construction inspector with 17 years of experience, Ron Clem recently completed several CDOT highway reconstruction projects on I-70 in Clear Creek County – the westbound Georgetown overlay and the peak period service lane through Idaho Springs. He has significant experience working on CDOT projects, specifically on highway and bridge projects that involved expansion of the highway and construction of two new bridges within the Town's limits.

Garrett Hanson, CMIT
Construction Inspector

Garrett Hanson has 10 years of experience providing construction management, technical engineering, and construction inspection services for a wide range of projects. He has provided design and construction management services for bridge, highway, water system improvement, hospitals, and land development projects. Through this experience, he has developed an in-depth understanding of projects, including the process for obtaining building permits, tracking to approval, and inspection. His portfolio includes the North-Side Road, Phase 1C project, which involved the construction of two 165-foot post-tensioned precast girder bridges.

Mr. Hanson will serve as a back-up resource to the project. He is currently assigned to the City of

Years of Experience: 36

Education

BS, Civil and Environmental Engineering,
University of Colorado

Certificate in Construction Management,
Colorado State University

Professional Registrations/Certifications

- Professional Engineer (Civil), State of Colorado, No. 25224
- Certified Construction Manager (CCM), No. 7110
- C&C of Denver, Building Class B Supervisor, No. 1020281

Training

- OSHA 30-Hour Training Certificate
- Colorado Department of Transportation, Construction Project Administration and Erosion Control Supervisor

Experience Summary

Mike Leister has 36 years of experience leading and managing engineering and construction projects. His passion is working with staff and public agencies with the end goal of delivering high quality and value-added service to their projects all within budget, on schedule, and in accordance with all applicable permits, codes and standards. He has been responsible for design and contract document development, project/construction management of individual projects and capital improvement programs, including development of processes and procedures. As project manager, he serves as VC&A's primary point of contact, responsible for managing the contract, oversight of the work under the contract, deliverables, communication, and ensuring complete client satisfaction.

Selected Project Experience

Project Manager/Assistant Area Manager, Vali Cooper & Associates, Colorado Region

Responsible for VC&A's Colorado Region client development, direction, and management. Pursuit coordination includes capture planning efforts, proposal preparation, presentations and negotiations, and delivering project services and deliverables to meet client and program/project objectives. Supports activities to continually improve standards and best practices and implement effective quality assurance. Local projects have included the following.

- **Project Manager, US 40 Steamboat Springs West, CDOT.** The \$6.5 million project involved the construction of intersection improvements, widening, auxiliary lanes, bike lanes, detached sidewalk, new signals, drainage facilities, and relocation of city water mains at three sites. Responsibilities included overall management and staffing to ensure project was built as designed, and in complete conformance with CDOT's plans and specifications format, construction documents, procedures, and delivery standards and methods.
- **Construction Manager, La Sal Mountain Loop Road, U.S. Department of Transportation, Federal Highway Administration, Central Federal Lands Highway Division.** Construction support and inspection services for the \$10.7 million project, which involved over 10 miles of roadway reconstruction and widening. Work also included MSE wall installation, new culverts, and gravel quarry and crushing operations. Operations included both day and night shift staffing. Responsible for overall project management and staffing.
- **Project Manager/Owner's Representative, Bellvue Water Treatment Plant, City of Greeley.** VC&A is providing Owner's Representative (OR) services using the CMAR delivery method for the \$25 million water treatment plant upgrade. Services include project management, contract administration, and inspection during the design, pre-construction, construction, and post-construction phases. Responsible for overall management and staffing and implementing Procure document control system.

Years of Experience: 10

Education:

BS, Construction Management, Colorado State University, Fort Collins, 2008

Registrations/ Certifications:

- CMIT
- 30-OSHA Certified
- CPR, AED and First Aid Certified
- Forklift, Confined Space, Fall Protection and Laser Operator Certified

Experience Summary

Garrett Hanson has 10 years of experience providing construction management, technical engineering, and construction inspection services for a wide range of projects. He has provided design and construction management services for bridge, highway, water systems, hospitals, and land development projects. Through this experience, he has developed an in-depth understanding of projects, including the process for obtaining building permits, tracking to approval, and inspection. His portfolio includes the North-Side Road, Phase 1C project, which involved the construction of two 165-foot post-tensioned precast girder bridges. He is adept with multiple software programs, including Timberline Estimating, AutoCAD, Prime Bid, On-Screen Takeoff, Adobe Pro, Bluebeam, and Prolog.

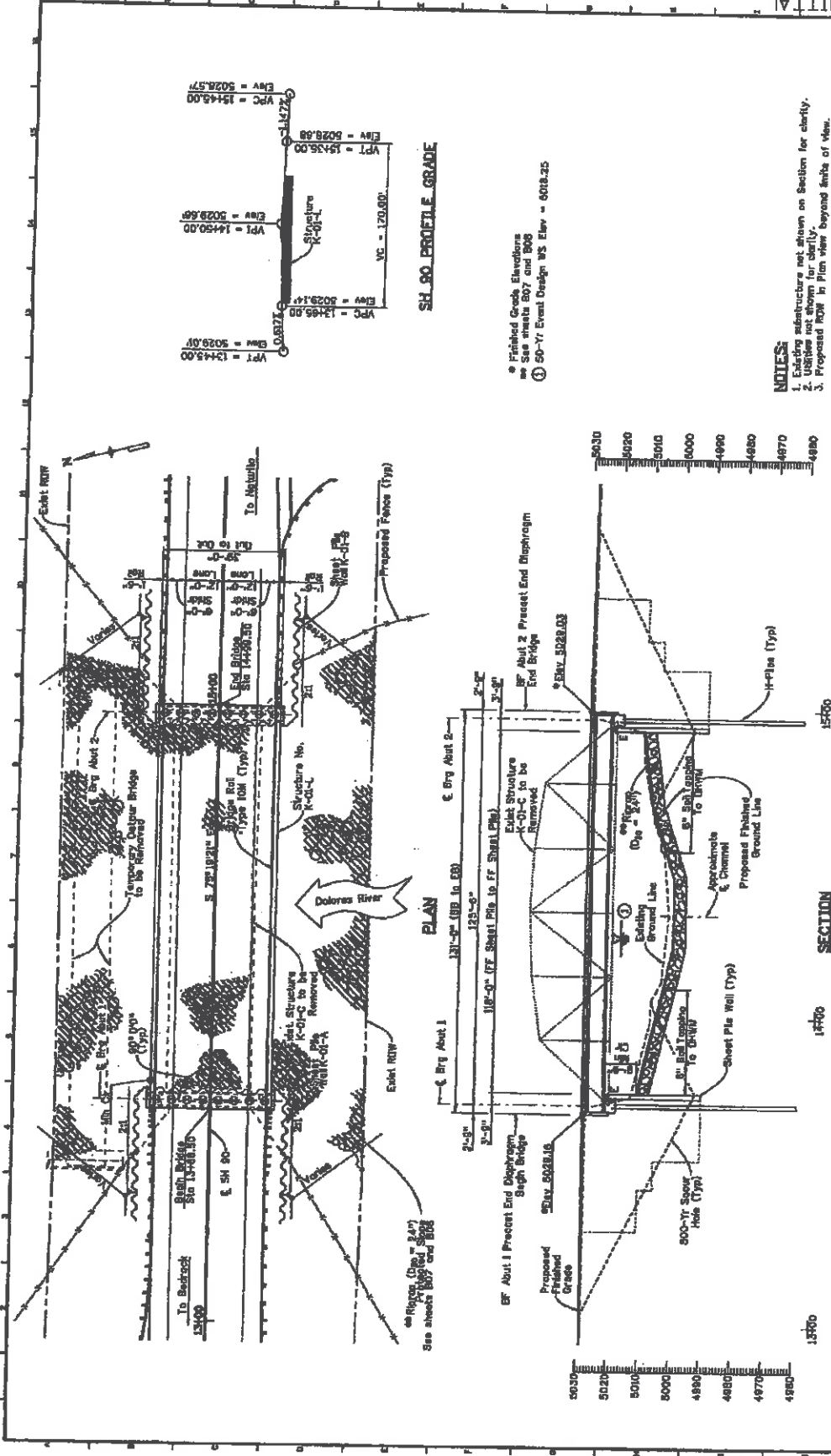
Selected Project Experience

Project Engineer/Estimator, North-Side Road, Phase 1C, Hawaii Department of Transportation. The \$65 million roadway and bridge project included construction of two 165-foot post-tensioned precast girder bridges, concrete paving, mass excavation, and drainage and utilities work. Managed bridge crews; installation and construction of all drainage, waterline, and sewer lines; and setting/building of catch basins and concrete swales. Scheduled and walked all bridge, soils, utilities, and concrete/rebar inspections with HDOT inspectors and foreman to make sure the work was in compliance and if not, directed foreman to quickly have crews fix for an immediate re-inspection. Managed bridge crews, along with all relevant document and cost controls. Quantified, scheduled, and ordered all concrete, with specifications and schedule requirements in mind. Performed and analyzed the results of all profilograph testing on the bridges and roads. Developed a complex spreadsheet with parabolic formulas to calculate grades for bridge deck pours, a key component to the bridge construction and resolving grade issues with the Owner.

Project Manager, Residential Development, Midian Home. Managed the construction of 48 homes. Responsibilities included completing the application process for all building permits, including record keeping, tracking, and report writing; confirming compliance with all permit conditions, codes and standards; and performing site inspections. Also drafted subcontracts, wrote purchase orders, verified scopes of work, created construction schedules, and oversaw daily construction activities.

Project Manager, Health and Medical Center Upgrades, Colorado State University. Project manager responsible for mechanical subcontract on the \$60 million design-build project to construct the 113,000-square-foot building, which consists of four floors plus a basement. The subcontract included HVAC, plumbing, and hydronic systems. Prepared all contracts, change orders, RFI's, submittals, and budgets. Coordinated daily with the Owner, general contractor, engineers, and others to troubleshoot problems and develop strategies to maintain the project schedule.

Project Engineer/Estimator, Wastewater Treatment Plant, Town of Louisville. Responsible for drafting subcontracts and purchase agreements and coordinating delivery and work. Scheduled all inspections through the Town of Louisville and the Town's design engineer after thorough quality checks and internal inspections. Attended all applicable inspections to make sure the work was passed and if not, fixed and re-inspected in a timely manner. Prepared and obtained building permits through the Town and all other types of permits to assure compliance with city, state and federal governments, such as an FAA building permit for an obstruction evaluation, due to the height of the crane.



- NOTES:**
- Existing structures not shown on Section for clarity.
 - Utilities not shown for clarity.
 - Proposed ROW in Plan View beyond limits of view.

• Finished Grade Elevations are See sheets 807 and 808
 • 50-Yr Event Design WS Elev = 5008.25

GENERAL LAYOUT		Project No./Code
Designer: J. Enthalder	Structure Number: K-01-L	FBR 0004-007
Detailer: E. Mosbacher	Bridge Sheet Sheet 803 of 33	20817
Sheet Submittal	Bridge Sheet Sheet 803 of 33	Sheet Number 53

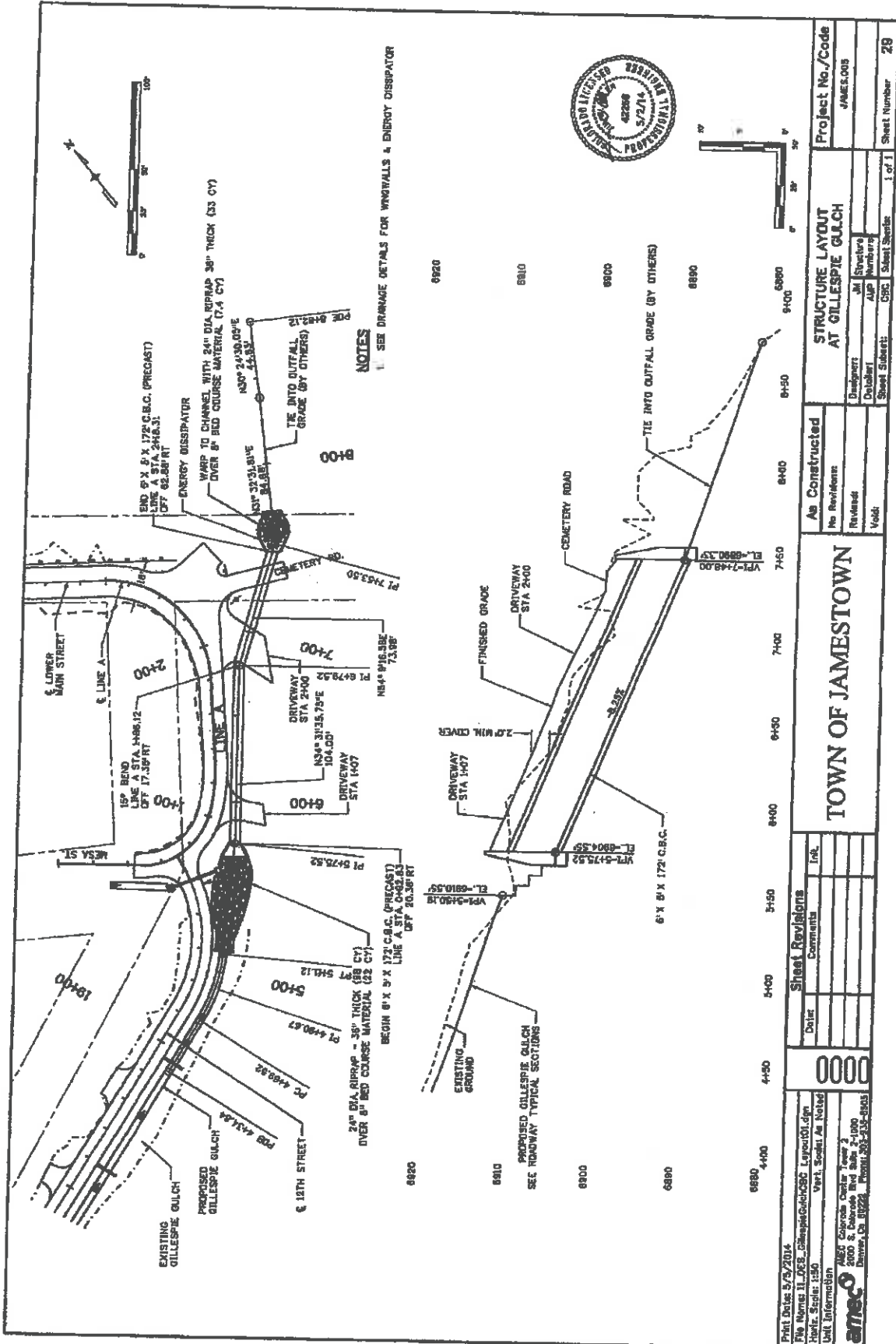
As Constructed	No Revisions
Referenced: 09/25/2017	0
Drawn: 09/25/2017	0

Colorado Department of Transportation
 3903 North Main Avenue
 Suite 200
 Aurora, CO 80010
 Phone: 303-385-1440 FAX: 303-385-8385
 Region 5
 DRV

Date	Sheet Revisions	Int.

Plan Date: 7/25/2018
 File Name: 803-20817-GenLayout-01.dwg
 Mark: Scale: 1:50
 Staff: Bridge Bureau Unit 0221 Unit Leader: STV

ch2m



NOTES
 1. SEE DRAINAGE DETAILS FOR WALLS & ENERGY DISSIPATOR



Project No./Code
 JAMES.O.S

STRUCTURE LAYOUT
 AT GILLESPIE GULCH

As Constructed
 No Revisions
 Revised
 Void

TOWN OF JAMESTOWN

Sheet Revisions	Date	Comments	Init.
0000			

Print Date: 5/21/2014
 File Name: H:\JOS_gillespieculch\CSO Layout\03.dwg
 Horiz. Scale: 1:50
 Vert. Scale: As Noted
 Unit: Information

amsco
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 2000 S. Babcock Blvd. Suite 2-1000
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Sheet Number
 29