CAS ARCHITECTS, INC.

STATEMENT OF QUALIFICATIONS

1987 LEGHORN STREET, SUITE 101, MOUNTAIN VIEW, CA 94043 650.967.6600 WWW.CASARCH.COM

TABLE OF CONTENTS

DESIGN APPROACH

CAS ARCHITECTS CORE VALUES

ENHANCEMENT

Architecture must enrich the quality of the Built Environment and Human Experience.

EMBRACE THE SPIRIT

Of the Master Builder, Artist, Problem Solver, Teacher, Philosopher, Leader, and Innovator.

PURSUIT OF EXCELLENCE

The driving force behind our commitment to Learning, Growth, and Development.

COLLABORATION

The strength of our work is grounded on our Beliefs, Values, and the Vision shared by our clients and the CAS Design Team.

COMMUNITY

We care about contributing to the development of our surroundings.

MISSION

CAS has been a part of Silicon Valley since our founding in 1978, participating in the growth of the region alongside nascent and established companies. We take great pride in providing personal, quality service and have established a track record of developing and maintaining long-term client relationships, which is part of CAS' core mission:

Design great work places for the Bay Area's advanced technology companies and to continue to do so on a long-term basis.

We produce creative, well-considered designs that enhance the human experience and help articulate our client's values. Inherent problem solvers, we are excited for design challenges and meet them with innovation and graceful solutions.

Currently a 23 person firm, CAS hosts six licensed architects and interior designers on staff, four of whom are also LEED certified. We stay active within our community, teach at local educational institutions, and are involved with several professional associations.

MANAGEMENT TEAM

José Cotto, AIA
Principal

José is the catalyst for an ongoing commitment to design excellence at CAS. In his role as President & Design Principal, José takes the leadership role in defining the company's design direction. He is instrumental in integrating advanced technology, such as the Cloud services and online collaboration with the CAS design process.

Education: Bachelor of Architecture, Syracuse University, Syracuse, NY

Registration: California
Member of ISPE

Michele Chadwick, IIDA, LEED®AP, BD&C
Principal

Michele has been a key team member since joining CAS. Her professional experience encompasses programming, space planning, design, construction documentation, project administration and finish and furniture selection.

Education: Bachelor of Science, Interior Design, San Jose State University, San Jose, CA

Certification: California Council for Interior Design Certification
National Council for Interior Design Qualification
LEED Accredited Professional (USGBC)

Richard Smith, AIA
Principal

Richard has extensive experience working with clients to establish the design of their spaces. His strength is the ability to listen to a client and work with them to capture the full potential of what they are saying rather than just to replicate their existing conditions.

Education: Bachelor of Architecture, California Polytechnic University, San Luis Obispo, CA
AA Graduate Diploma, Architectural Association School of Architecture, London, UK

Registration: California

Ketki Thanawala
Associate

Ketki has successfully managed a wide range of highly technical projects. Her strength lies in being a strong team leader, collaboration with the consultants, engineers, and contractors, and attention to detail. Ketki is an advocate for maintaining the firm's drawing standards and quality assurance.

Education: Bachelor of Architecture, MS University, India
Master of Architecture, University of Houston, Houston, TX

Oliver Bollman, AIA, LEED®AP
Associate

Oliver is a strong promoter of green buildings through design excellence and innovation. He is also the 3D and multimedia design advocate for CAS, leveraging these technologies to further the design process. In his experience on a wide variety of project types, Oliver coordinates with product representatives, users, and MEP teams to achieve a successful project.

Education: Bachelor of Architecture, Carleton Univeristy, Ottawa, Ontario, Canada

Registration: California
LEED Accredited Professional (USGBC)

Alyson Williams
Associate

Alyson is the director of the office operations and contributes to maintaining successful client and team member relationships. As a member of the management team, Alyson expands her role in managing financial and HR processes that are critical to our firm's growth and development, as well as participating in the firm's long-term vision and strategies.

Education: Bachelor of Arts, San Jose State University, San Jose, CA

MARKET SECTORS

ADVANCED TECHNOLOGIES

R & D and Manufacturing Facilities

Hazardous Material Storage & Distribution Buildings

Data Centers

Corporate Offices & Cafeterias

Training and Demonstration Facilities

LIFE SCIENCES

Bioscience-Pharmaceutical R & D Facilities

Medical Device Manufacturing/Assembly

GMP Laboratories

Corporate Offices & Cafeterias

Training and Demonstration Facilities

RENEWABLE ENERGY

R & D and Manufacturing Facilities

Corporate Offices & Cafeterias

Training and Demonstration Facilities

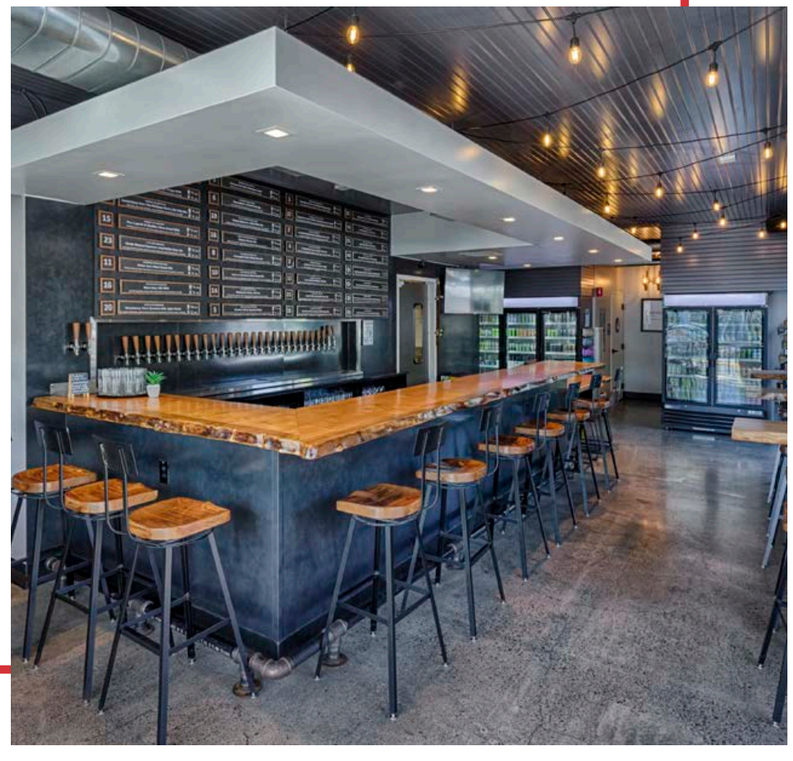
COMMERCIAL

Financial Institutions

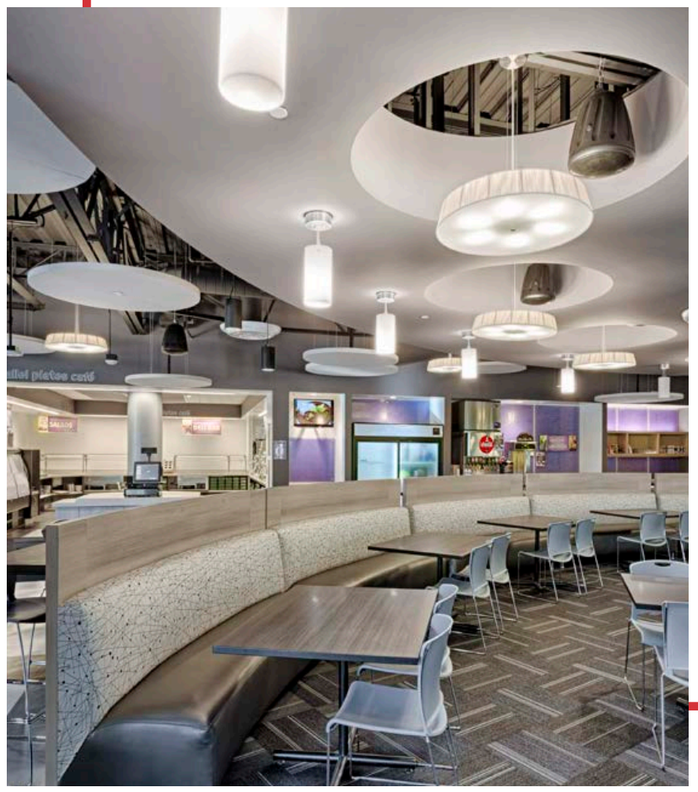
Fitness Centers

Offices

Restaurants & Retail



DESIGN SERVICES



ARCHITECTURE & INTERIOR DESIGN

Master Planning

Feasibility Studies

Site Evaluation, Selection, and Development

Space Planning

Tenant Improvement Design

Programming and Planning Growth

Code & Ordinance Compliance Evaluation

ADA Disable Access Compliance Evaluation

Building & Fire Codes, HazMat Ordinances

3D Modeling and Animation

Equipment Layout and Utilities Matrix

Hazardous Materials

Manufacturing Equipment Hook-up

Finishes & Materials Selection and Specifications

Furnishings Selection and Specifications

Custom Millwork Design

Custom Furniture Design

LEED Certification

Signage Programs

Agency Approvals and Permitting

Public Hearing Representatives

Construction Administration

As-Built Field Verification

PROJECT DELIVERY

CAS emphasizes a design philosophy that focuses on the end-user's needs; ***attention to detail*** *in preparing high-quality documentation and an ability to* ***navigate a project team*** *through the design process, involving the end-users each step of the way.*

COST ALIGNMENT

Managing the project budget is paramount to our clients and to the success of our projects. It starts at the beginning of the design process.

While aware of the demands on the other team members, **CAS** takes active steps to assure an action plan is in place to deal with any cost impact.

Starting with the correct conceptual estimate is half the battle; the other half is controlling cost during each phase of design and during construction.

We take teaming with General Contractors very serious and listen to their concerns to bring the project into budget and on time.

COLLABORATION

As Architects we set the direction of design team members and lead the coordination effort.

We maintain open communication within our team by establishing methods and formats at the start of each project and carefully following them through all phases of the design process.

All design team members are included on all design related communications (e.g., memos, letters, directions from Owner) and attend pertinent meetings so that each is fully informed and can participate actively in the decision making process.

PROJECT MANAGMENT

CAS understands how to orchestrate a project through internal and external building and approval processes.

Typically we being a project with a work plan as a guide, which is an active document reflecting issues and milestones related to weekly and monthly deadlines.

Key issues in keeping your project on track:

- Establish expectations for the overall project
- Clear communication among team members
- Identification of the different decision makers
- Producing clear documentation

PROJECT DELIVERY

*Picking a **strong delivery method** involves carefully reviewing the project specifications, schedule, and budget.*

CAS works with the client to determine the most appropriate delivery method for the project.

DESIGN-BID

The owner contracts with an architect to design the project, and then the project is put out to bid for construction. This process allows for flexibility to make design changes, roles are clear, and potentially more competitive bids from architect and general contractor.

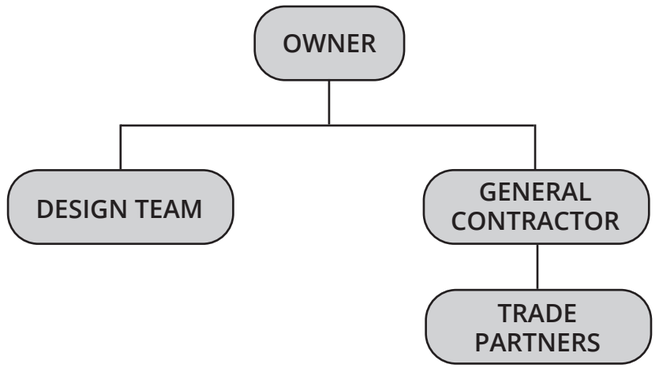
DESIGN-BUILD

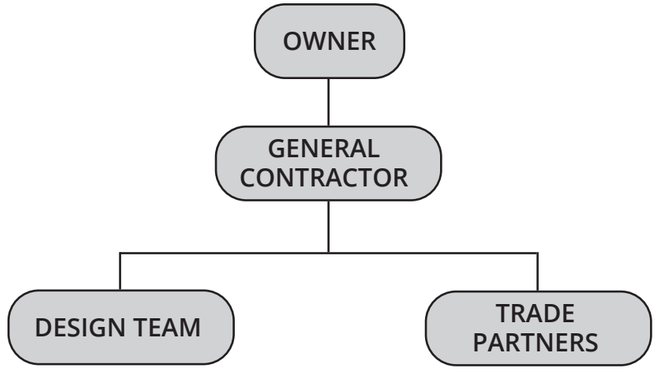
The owner contracts with a single entity that provides both design and construction services. This process creates a collaborative environment between the design and build teams that provides opportunities for cost and schedule savings.

ATTRIBUTES

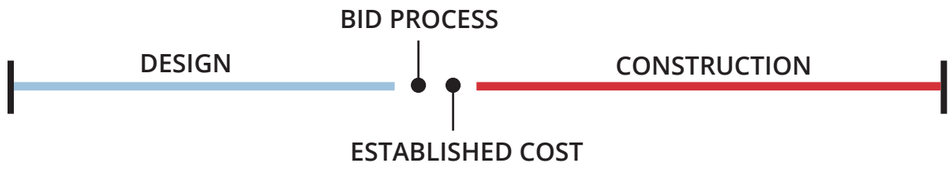
COMPETITIVE BIDS	DISTINCT ROLES	MORE DESIGN CONTROL	FASTER TIMELINE	COLLABORATIVE EFFORT	OWNER REDUCED RISK

PROJECT TEAM





TIMELINE

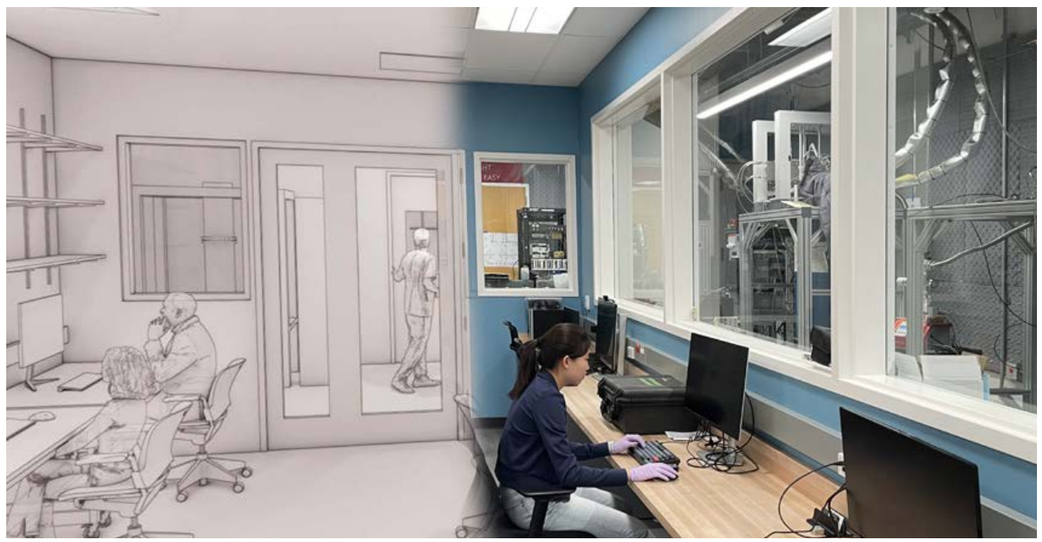


PROJECT DELIVERY

VISUALIZATION

The use of technology allows CAS to provide the client realistic views and virtual walk-throughs of the design so the final product can be visualized. An example below shows the 3D rendering and a photo of the completed project. Additional 3D renderings show the breadth of our capabilities.

PROJECT DELIVERY



PROJECT DELIVERY

QUALITY CONTROL

CAS provides high quality design reviews as an integral part of our project process and not something that occurs at the end of the construction document phase. Projects undergo a structured quality assurance review a minimum of three times in our office. These reviews are performed by associates or project managers of the firm who have had no previous formal contact with the project and can provide a fresh perspective.

50% Construction Document Review

Formal gathering at a mid-point of the construction document phase. Using a master checklist, CAS team members systematically review the progress set of drawings. Key issues on the checklist are: code compliance, exiting, feasibility of detail approach, and the organization of information within the documents.

90% Construction Document Review

The last step is a formal review before the construction documents are submitted for permit. Participants include an Associate or Project Manager and the project team. The drawings are compared to a master checklist that focuses on construction coordination issues, code compliance, and the clarity and completeness of information on the drawings.

"Over-the-Shoulder" Review

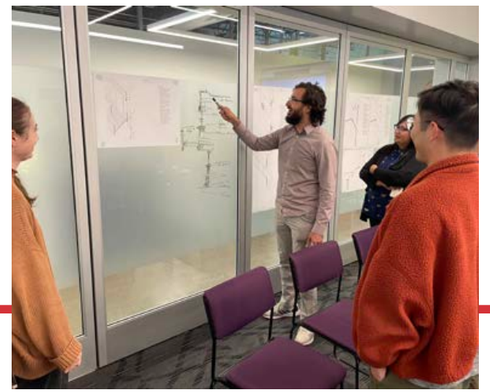
Informal gathering of the Project Principal and Project Manager at the Designer's desk. The concept is discussed and suggestions are made for improving the design. Being at the desk allows the designer to make modifications to the design in real time as suggestions are made.

Formal Review

Scheduled formal gathering of a select group from the firm's design staff. The Project Designer presents the design concept to the group and the concept is then critiqued in a constructive manner. Our goal is to make sure all designs have a strong, thought-out concept that responds to functional requirements, code compliance issues, contextual issues, budgets, etc.

Office-Wide Review

Gathering of the entire office to review a major project during each phase, providing design critique in a constructive manner. There are several principles behind these office wide sessions. We test the design solution on a broader scale, encourage office interaction about design concepts and increase awareness of the design process.



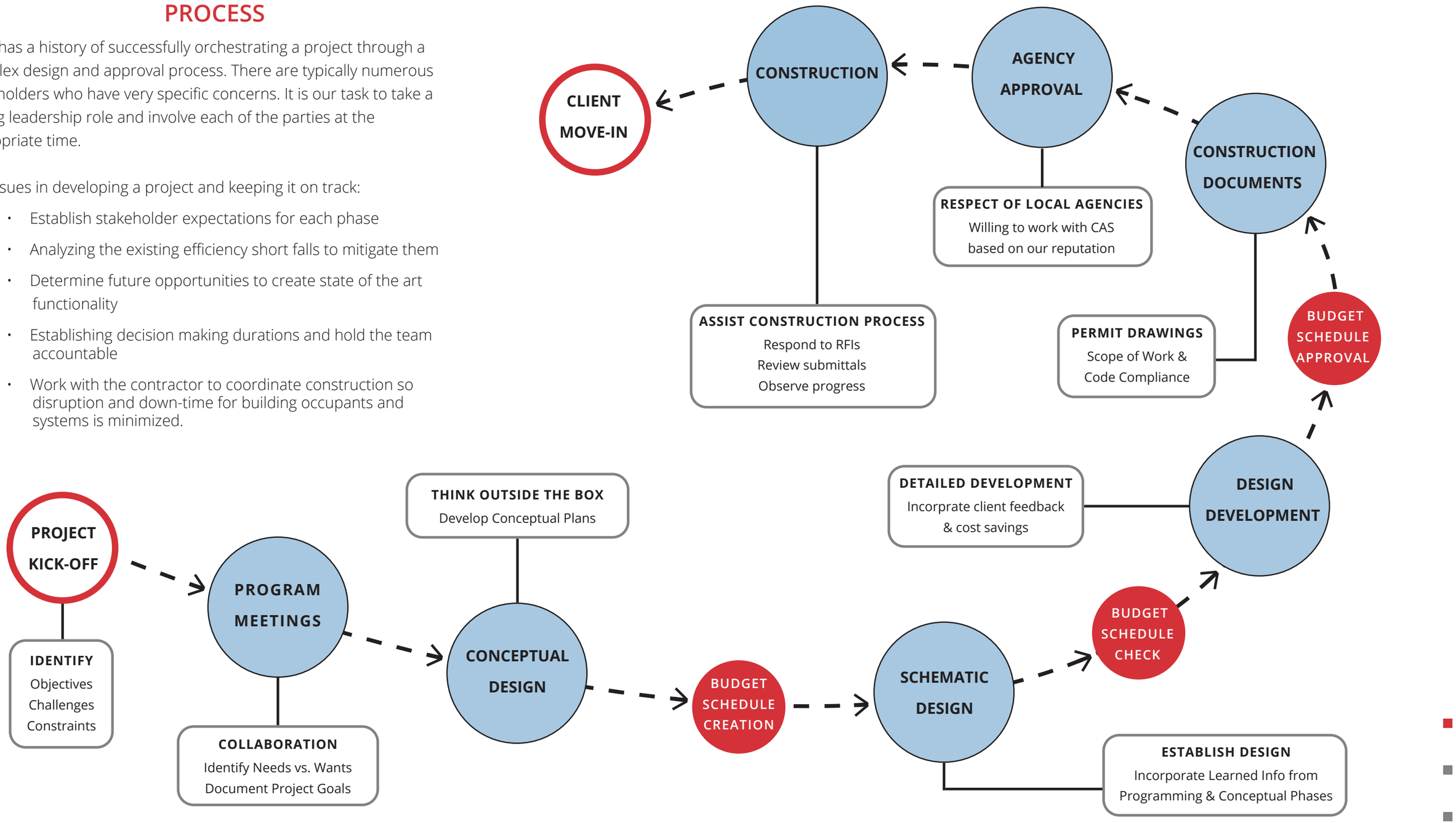
PROJECT DELIVERY

PROCESS

CAS has a history of successfully orchestrating a project through a complex design and approval process. There are typically numerous stakeholders who have very specific concerns. It is our task to take a strong leadership role and involve each of the parties at the appropriate time.

Key issues in developing a project and keeping it on track:

- Establish stakeholder expectations for each phase
- Analyzing the existing efficiency short falls to mitigate them
- Determine future opportunities to create state of the art functionality
- Establishing decision making durations and hold the team accountable
- Work with the contractor to coordinate construction so disruption and down-time for building occupants and systems is minimized.



PROJECT DELIVERY

SUSTAINABILITY APPROACH

CAS is a strong advocate for the use of sustainable design and construction methods. By considering the entire life cycle of materials and equipment during the design and specification phasees, we are able to provide our clients with environmentally responsible projects that provide long term cost effectiveness and usability.

We have several LEED accreditted professionals on staff that guides designs to implement sustainable design strategies, including:

- Integrate daylight and views
- Re-use of existing building materials and furnishings
- Minimize construction waste
- Incorporate bike parking, lockers, and showers into design
- Specify regional and rapidly renewable materials
- Carbon accounting
- Optimize energy performance

Our goal is to balance sustainable design, project program, budget, energy costs, aesthetics, and the maintenance needs of our clients in the project design. We want to make each project self-sufficient and energy efficient, while creating inviting, useful, and aesthetically pleasing spaces.

LEED CERTIFIED PROJECTS

Synaptics

StarOne Credit Union

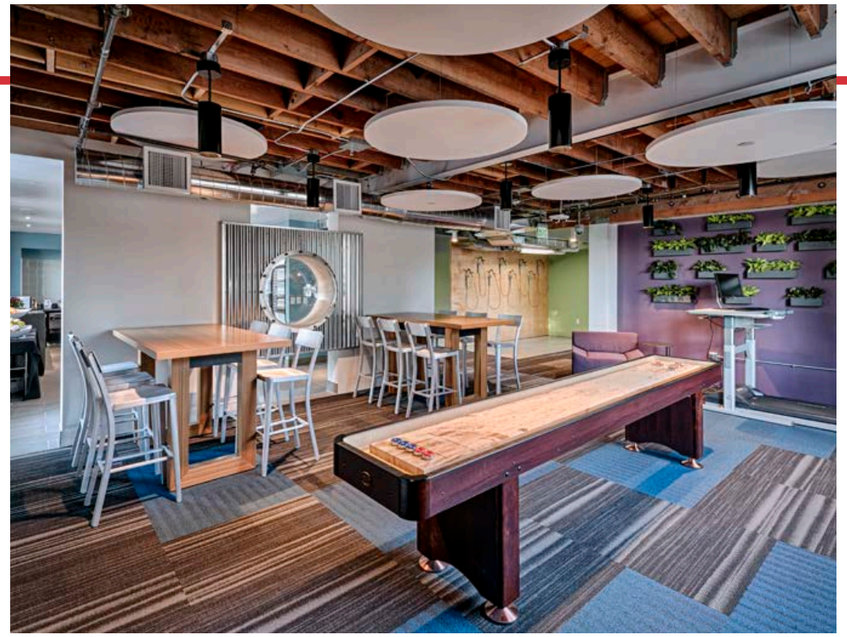
Rudolph & Sletten Corporate Headquarters

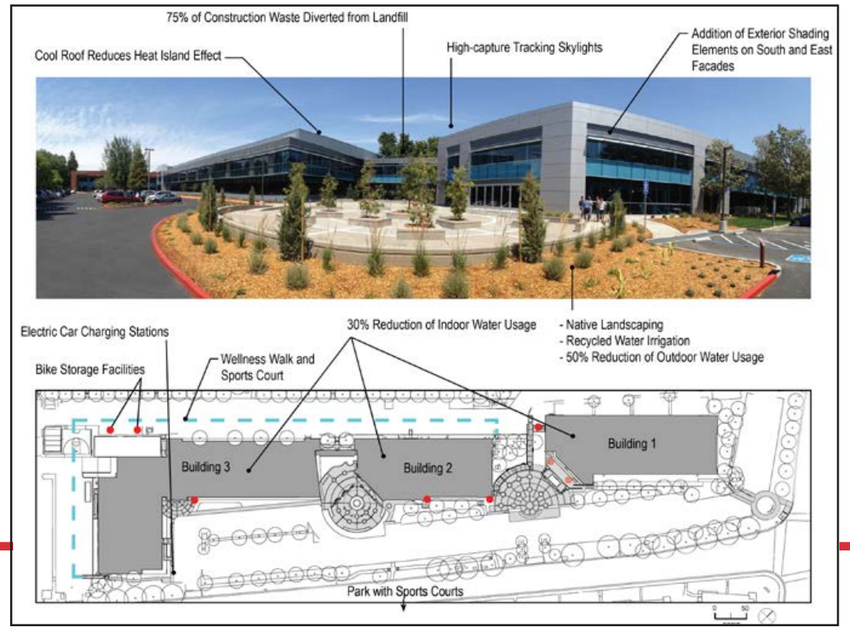
Stanford University Y2E2 Building

UA Local 38 Joseph P. Mazzola Training Center

Google Offices

Dupont Fabros Data Center

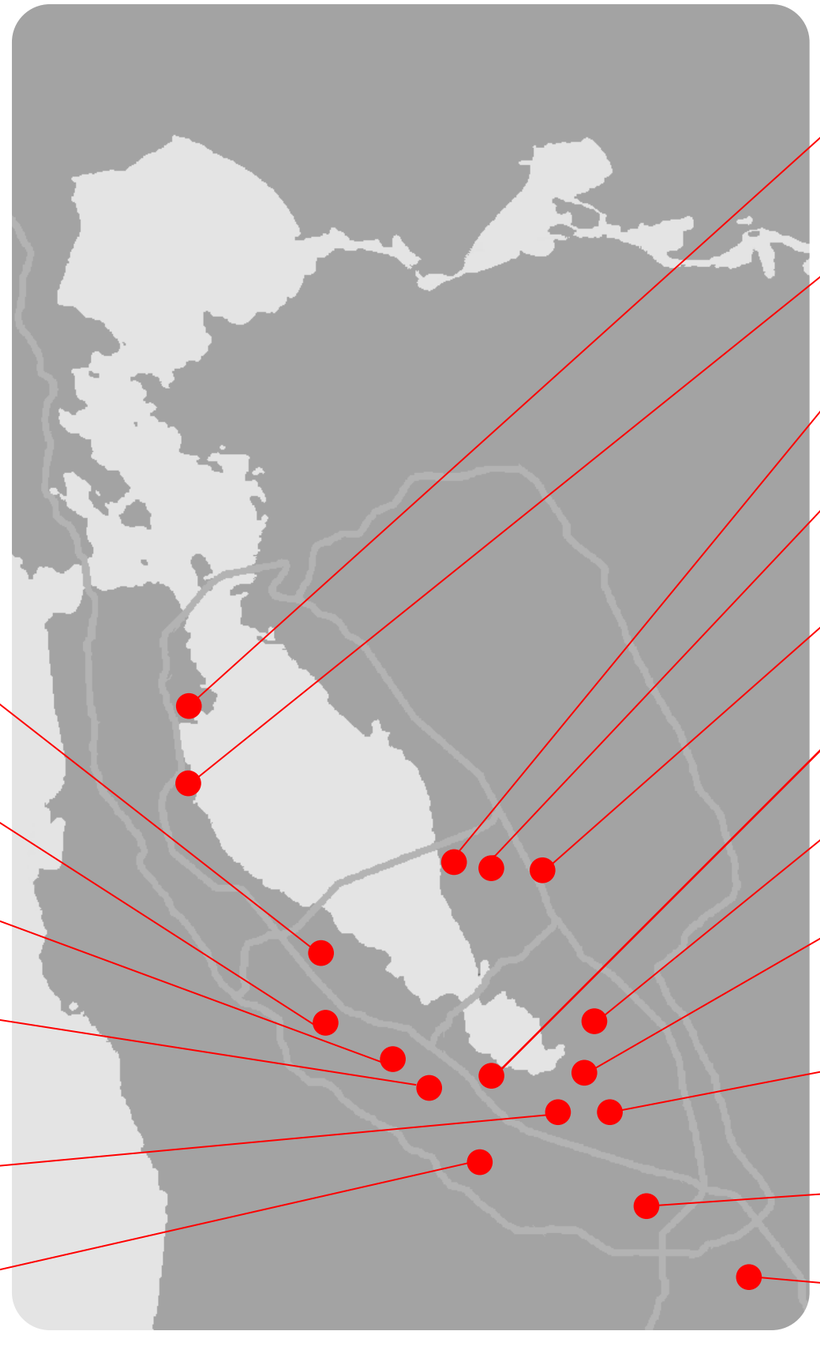




RELATIONSHIPS

We pride ourselves on our track record of developing and maintaining long-term client relationships, enabling us to be extremely knowledgeable and familiar with their processes, which in-turn allows us to contribute to successful design solutions for all of our clients' facility requirements. Our desire to maintain close client connections is a key reason why, at any time, 85% of our on-going projects involve these long-term clients.

CAS has also maintained good relations with local agencies throughout the Bay Area. This is based on our reputation for quality drawings and code interpretation for technical projects.



natera

STANFORD UNIVERSITY

McCandless Management Corporation

Cepheid
A better way.

VANTAGE DATA CENTERS

STAR ONE CREDIT UNION

UA Local 38

GILEAD

ARCUS BIOSCIENCES

BioMed Realty
Discover here

Western Allied MECHANICAL

Meta

Bloomenergy

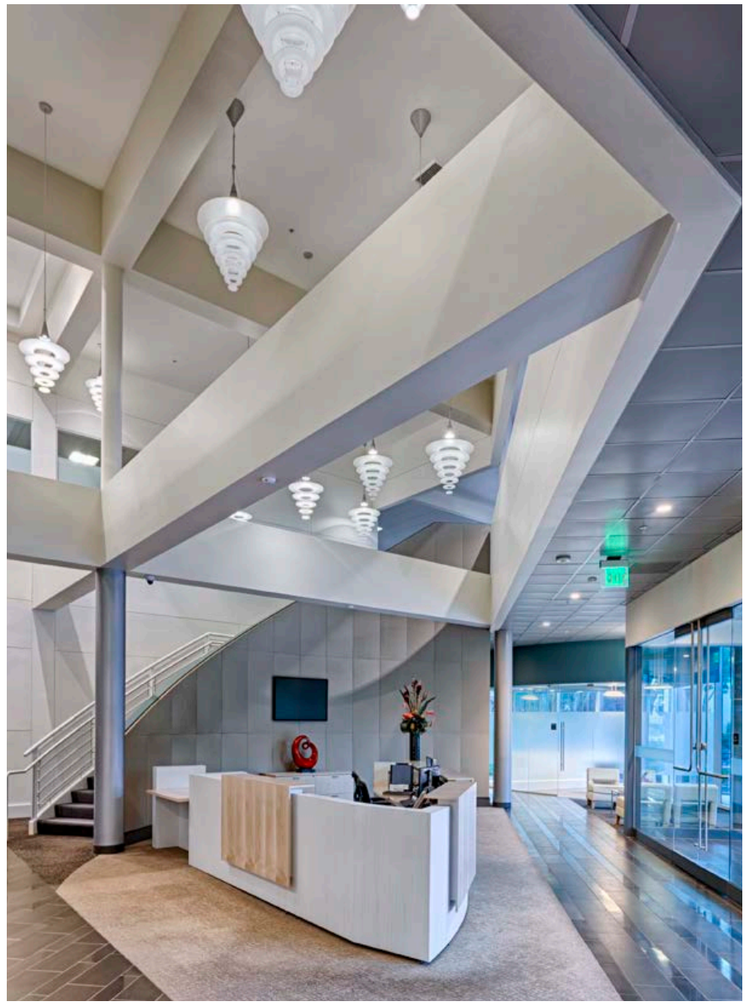
LytEn

infinera

WD Western Digital

EXPERIENCE

CORPORATE LOBBIES



DESIGN APPROACH

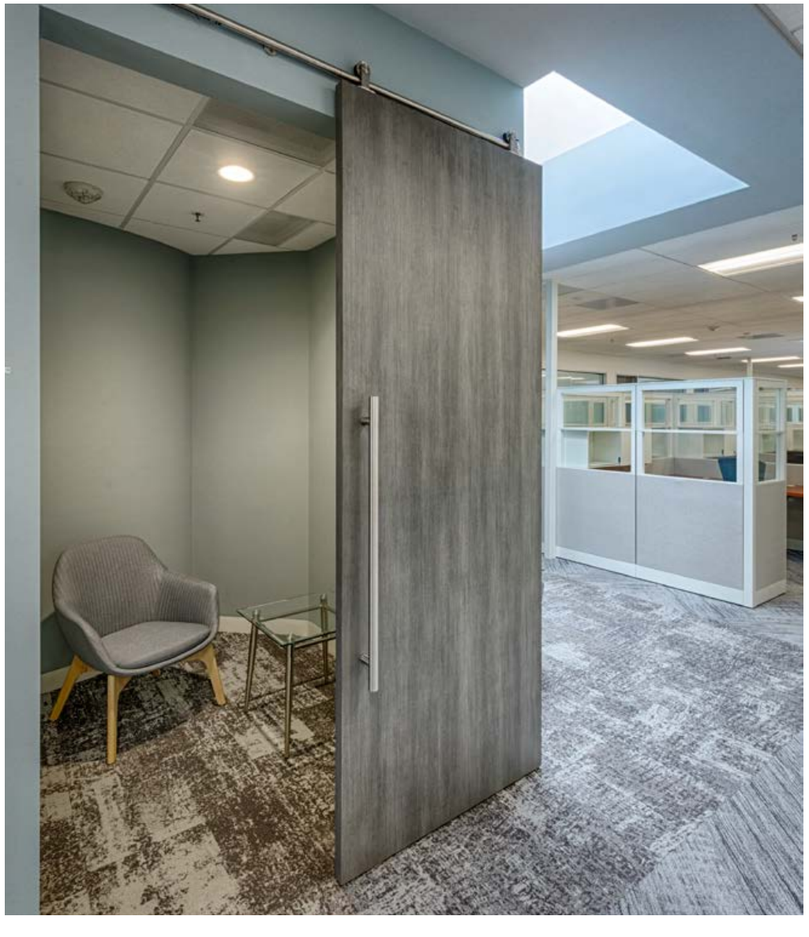
Each lobby design is unique to bring the company's corporate culture to life.
The lobby is the first impression of a building and it must be welcoming, understandable, and peak the interest of the visitor.

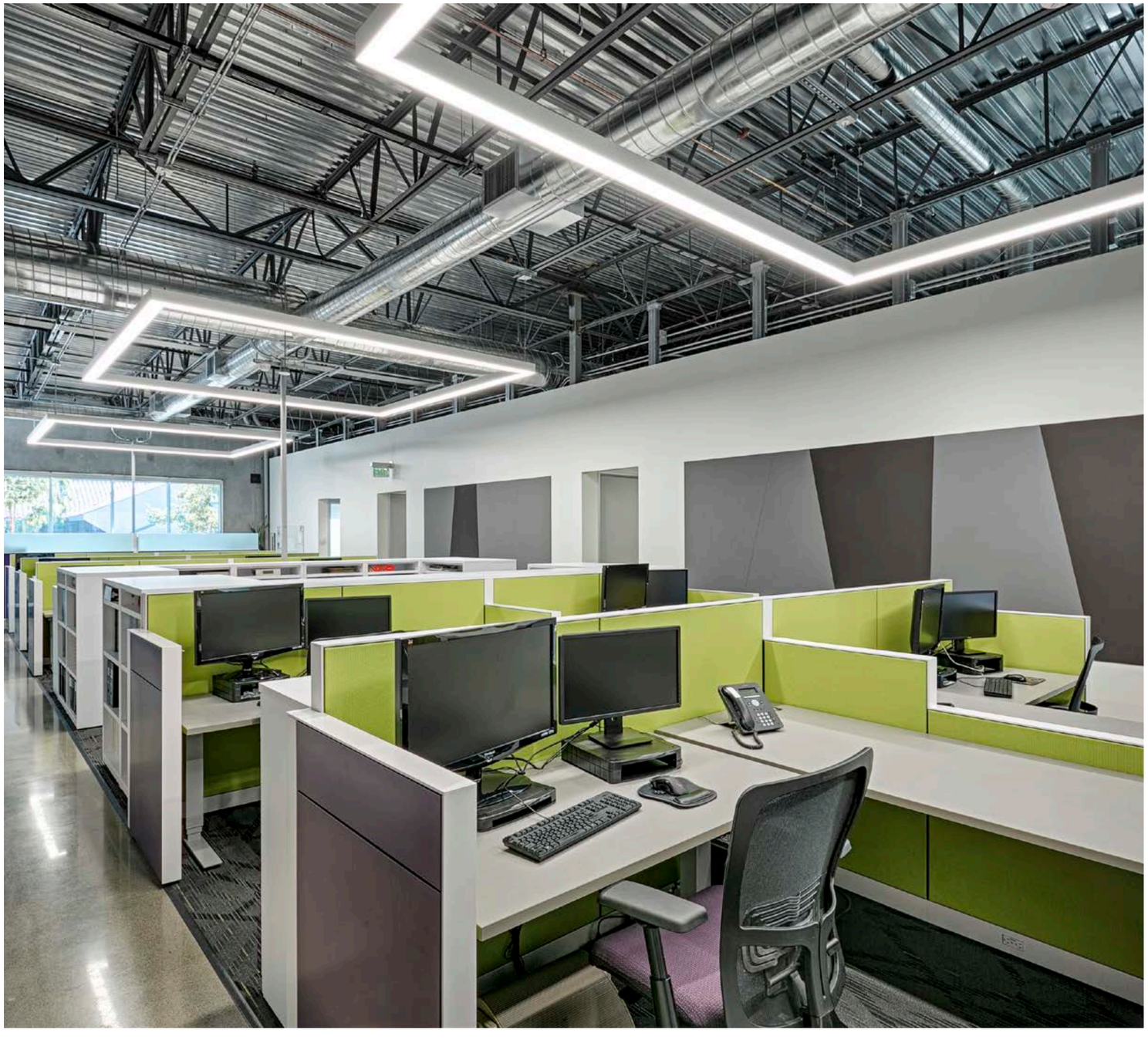
CORPORATE LOBBIES

WORK ENVIRONMENTS

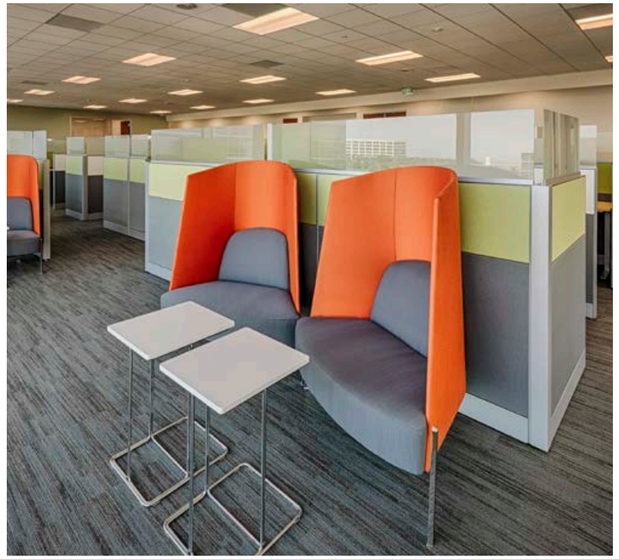
DESIGN APPROACH

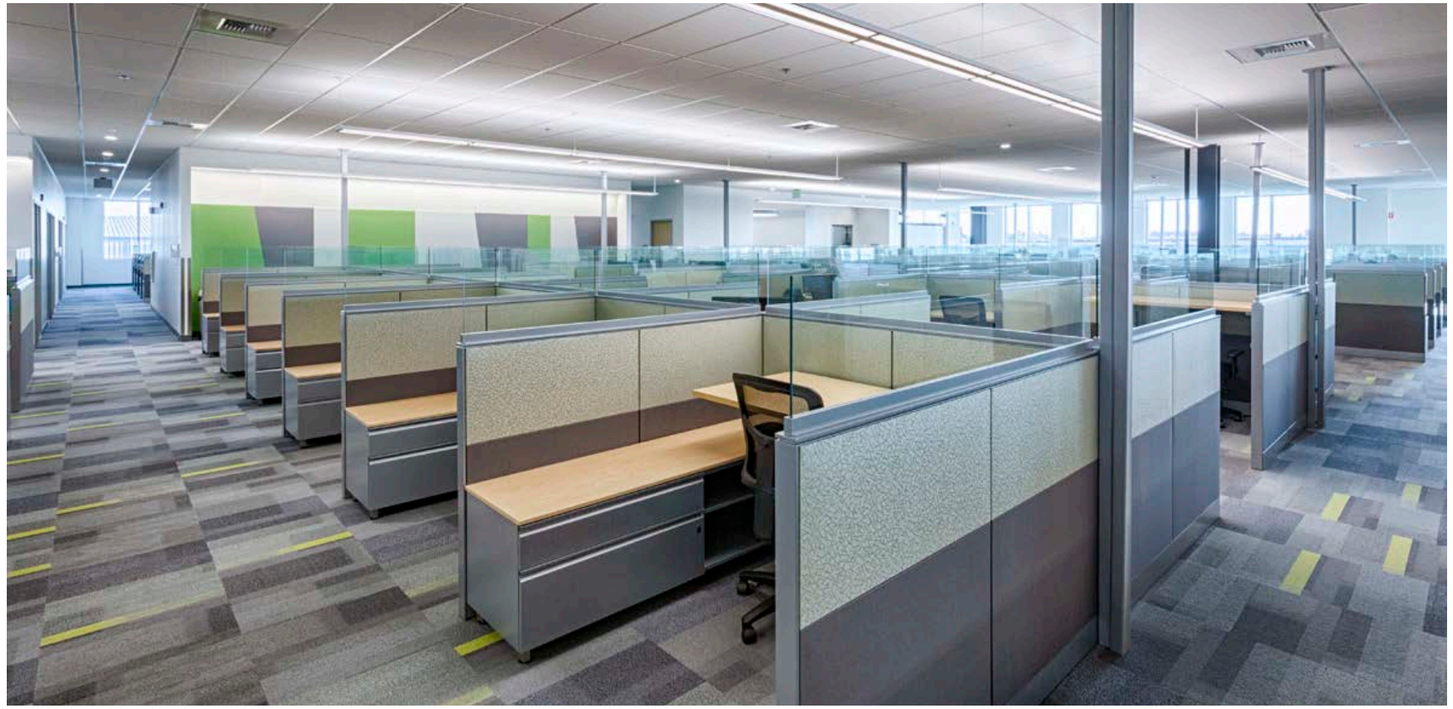
Creating a variety of work environments that are based on the company's culture. They types include open office with traditional cubicles or desking systems, private offices, focus rooms, hoteling space. Introducing natural light through windows, skylights, or large scale fixtures helps to create comfortable environments.





WORK ENVIRONMENTS





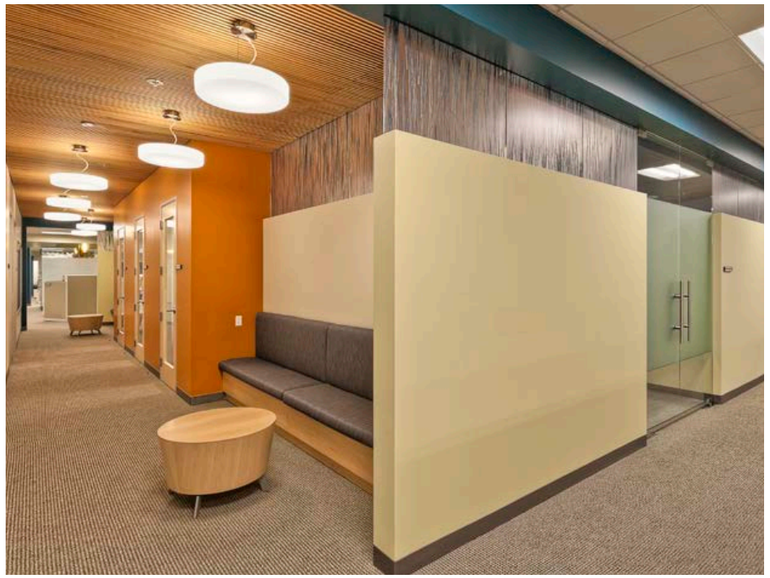
CORPORATE CAFES

DESIGN APPROACH

Create a multi-functional space that promotes interaction, relaxation, and enjoyment. Introducing natural light, exterior views, and vibrant colors brightens the space. Architectural elements, such as floating ceilings, baffles, and wood slats help to define the rooms and provides great acoustics.

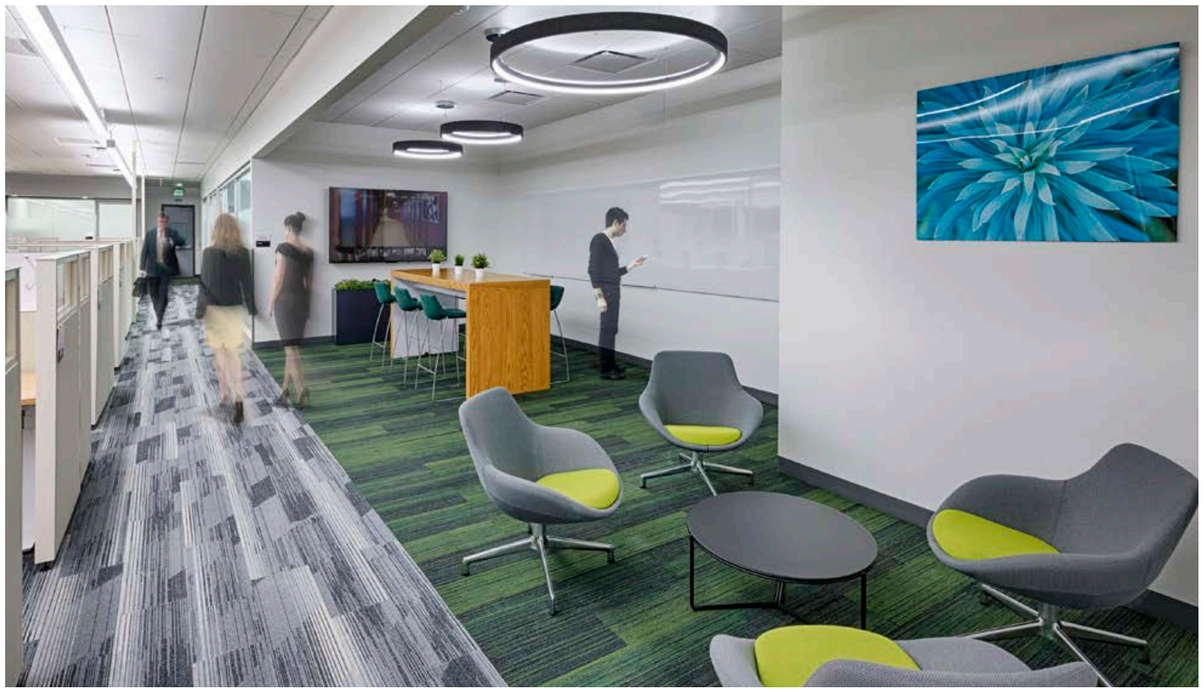
CORPORATE CAFES

COLLABORATIVE ENVIRONMENTS

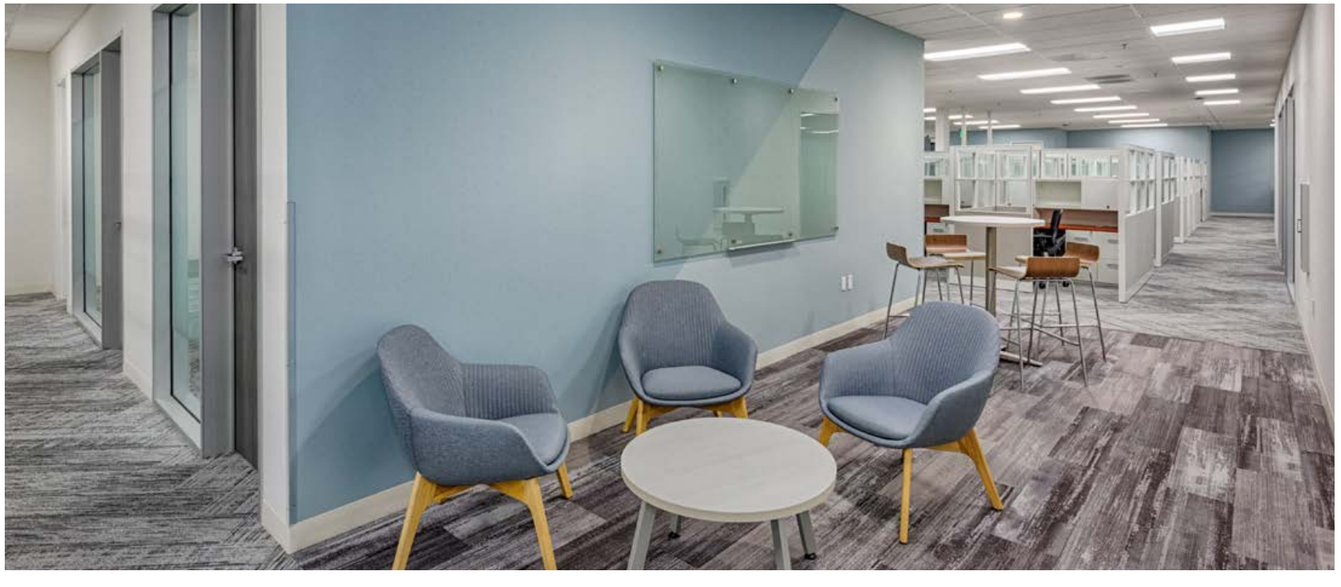


DESIGN APPROACH

Creating dynamic spaces with a variety of seating options and levels of privacy. Lighting is a key element to enhance and create the appropriate mood for each environment.



COLLABORATIVE ENVIRONMENTS

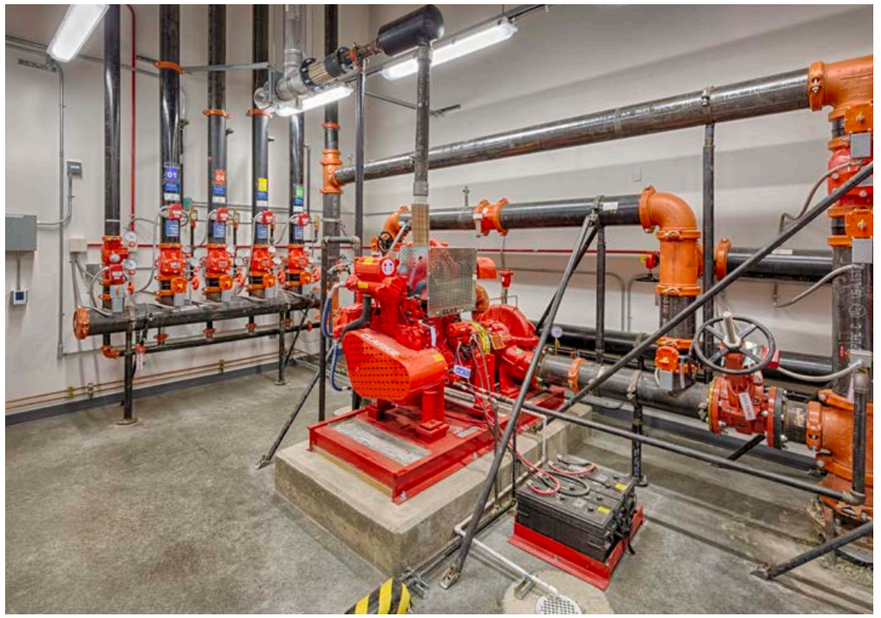


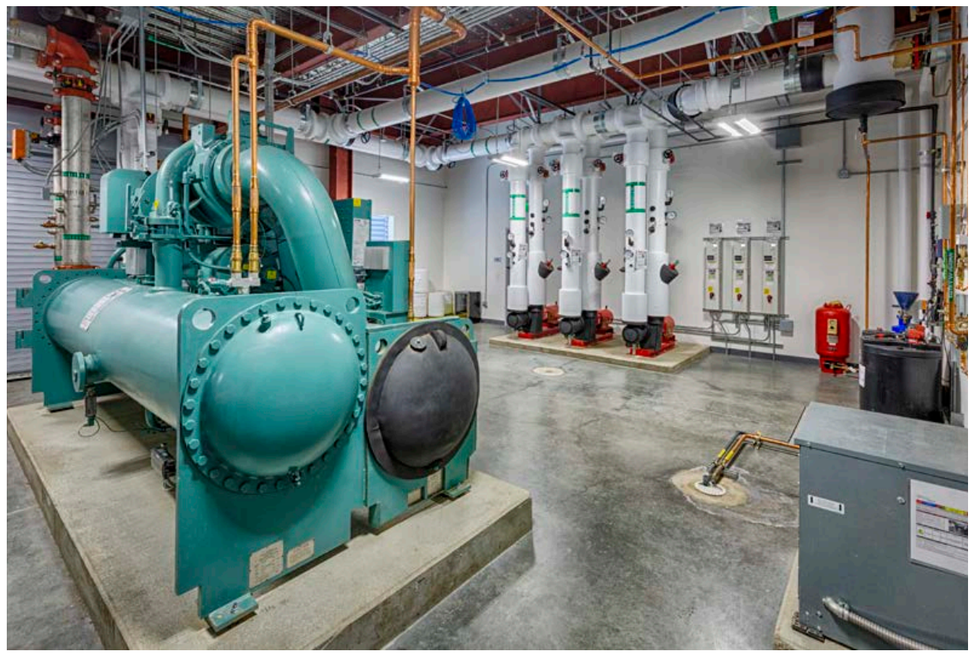
BUILDING INFRASTRUCTURE

DESIGN APPROACH

Building infrastructure is critical to the operations of any high-tech company. Interior and exterior spaces are designed to best suit the equipment and continual maintenance. CAS works closely with the engineering team to ensure a successful design.

BUILDING INFRASTRUCTURE

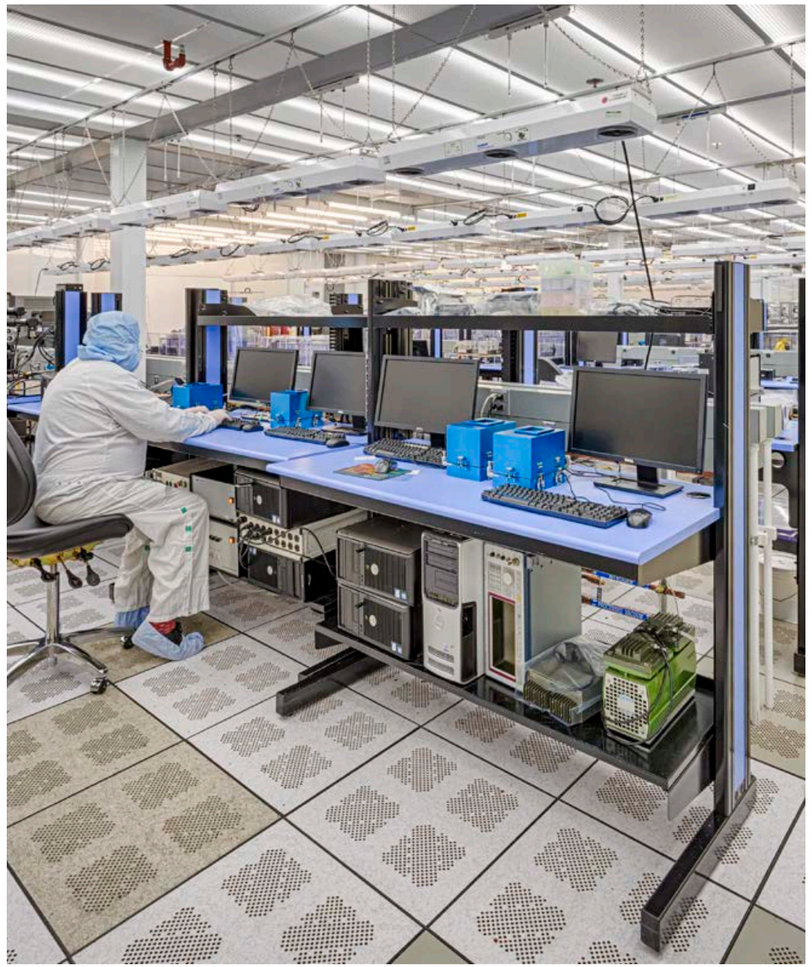




LABORATORIES - ELECTRONIC

DESIGN APPROACH

CAS understands the design of technological spaces is mission critical for our client's success. Meticulous care and detail are used to ensure spaces are both efficient and functional whether the activities include parts assembly, maker type spaces, laser research, and the work with specialized environments.



LABORATORIES - ELECTRONIC

LABORATORIES - CLEANROOM

DESIGN APPROACH

CAS has extensive experience with the design of clean room environments in multiple configurations. Our goal is to marry an environment that works functionally and promotes an efficient workflow while employing the best practices possible in concern of life safety of the occupants.

LABORATORIES - CLEANROOM

LABORATORIES - BIOLOGY

DESIGN APPROACH

CAS has experience with the design of various types of biological labs for both our industry and educational clients, including BLS type environments to general wet laboratory and tissue culture to Vivarium research spaces. We understand that workflow and proper organization of spaces prevents cross contamination of product and research samples.

LABORATORIES - BIOLOGY

REFERENCES

REFERENCES

WESTERN DIGITAL
San Jose, CA
Commercial Office, R&D Labs
Building Renovation
100,000 SF, $200 million

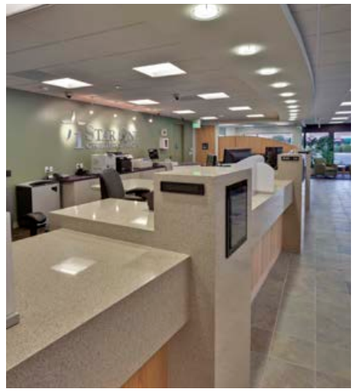
Arnie Hendrickson, Facilities Director
408.576.2103

VARIAN
San Jose, CA
Commercial Office
Building Renovation
32,000 SF, $7 Million

Gopal Shankar,
Director PM Group
650.304.9421

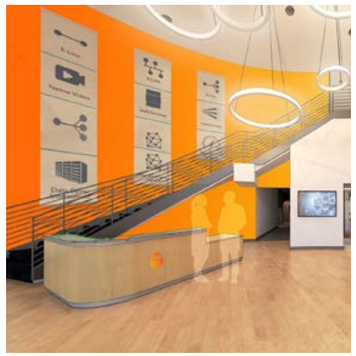
CEPHEID
Sunnyvale/Santa Clara, CA
Life Science/Commercial Office
Building Renovation
Bldg. 1 - 75,000 SF, $2.9 million
Bldg. 4 - 25,000 SF, $890,000
Bldg. 5 - 50,000 SF, $5.75 million
Bldg. 7 - 37,000 SF, $2 million
Bldg. 8 - 55,700 SF, $6.5 million

Matt Gaylor, Construction PM
Global Workplace Operations
209.200.5577



STAR ONE CREDIT UNION
San Jose, CA
Commercial Office
Building Renovation
Branches:
Stevens Creek - 4,600 SF, $700,000
Palo Alto - 6,400 SF, $1.3 million
Bordeaux - 19,285 SF, $3 million
Saratoga - 2,200 SF, $1.1 million

Steve Harris, Facilities Manager
408.543.5125



INFINERA
San Jose/Sunnyvale, CA
Commercial Office & Technical Mfg.
Building Renovation
82,144 SF, $8 million

Aaron Kovach, Director of Planning,
Design & Construction
408.572.5267

STANFORD UNIVERSITY
Stanford, CA
Educational/University
Shiram Center - 210,000 SF, $127 mil
Y2E2 Bldg. - 35,000 SF, $80 mil
Spilker Bldg. - 38,000 SF, $11.9 mil
Hagey Facility - 12,500 SF, $5.7 mil
Durand Bldg. - 50,000 SF, $19 mil
Gratta Lab (Varian) - 1,200 SF, $840K

Laura Goldstein, Director, DPM
650.725.0569