



OUR PERFORMANCE BUILDS RELATIONSHIPS ®

Frank M. Booth, Inc.



California State Capitol Renovation
Complete mechanical renovation ('76)

Frank M. Booth, Inc.: Three uniquely positioned companies under one management, providing unmatched mechanical and architectural metal contracting resources in Northern California and Nevada.

Frank M. Booth, Inc. is recognized for performing beyond expectation. You can count on us to bid your project reliably and realistically, to efficiently manage your project's unique demands, and to fabricate the many special items it may require. Most of all, you can rely on us to complete your job with the quality you hoped for, the schedule you specified and the budget you allocated.

Let Frank M. Booth, Inc. bring its capabilities and ninety years of contracting experience to your next project. Discover how **OUR PERFORMANCE BUILDS RELATIONSHIPS®**.

Frank M. Booth Co.

We provide plan-and-spec mechanical contracting services for commercial and institutional facilities and ASME B31 pipe fabrication.

Valley Sheet Metal Co.

We design, fabricate and install architectural sheet metal systems for commercial and institutional facilities.

Frank M. Booth Design Build Co.

We provide comprehensive design/build mechanical contracting services for commercial and institutional facilities.

OUR PERFORMANCE BUILDS RELATIONSHIPS®

Management



Chief Executive Officer

F. Martin Booth

Chief Executive Officer since 1978
With the firm since 1972
Graduate, University of California, Berkeley
Graduate, SCMP, Executive Management Program,
Harvard Business School



President

Larry R. Booth

With the firm since 1976
Graduate, University of California, Berkeley
Mechanical Engineering
Registered Professional Engineer



Chief Financial Officer

Richard W. Gabel

With the firm since 1985
VP/Controller, R.G. Fisher Inc., 1975-85



Frank M. Booth Design Build: Chief Contracting Officer

Clint Studebaker

With the firm since 1985
Graduate, California Polytechnic State University,
Mechanical Engineering



Frank M. Booth Design Build: Chief Design Engineer

Phil Ball

With the firm since 2000
Graduate, California State University, Sacramento,
HVAC Cert. Program,
University of California, Davis, LEED Accredited
Registered Professional Engineer, ME 30161



Frank M. Booth Co.: Chief Mechanical Estimator

Brian McGrath

With the firm since 1988
Certified Professional Estimator



Valley Sheet Metal Co.: Chief Architectural Estimator

Al DiVita

SMWIA Member since 1978
With the firm since 1984

OUR PERFORMANCE BUILDS RELATIONSHIPS ®

Specification Sections & License Classifications



RAB Motors, San Rafael
Aluminum fascia panels ('86)

Specification sections we perform directly:

- 05800 Expansion Control
- 07400 Sheet Metal Roofing
- 07600 Architectural Sheet Metal
- 07700 Roof Accessories
- 10200 Louvers
- 15000 Mechanical Complete
- 15400 Plumbing
- 15500 Piping
- 15800 HVAC
- 17000 Building Automation

Frank M. Booth, Inc. has the following licenses:

- A General Engineering Contractor
- B General Building Contractor
- C-4 Boiler, Hot Water Heating and Steam Fitting
- C10 Electrical (General)
- C14 Metal Roofing
- C16 Fire Protection
- C20 Warm-Air Heating, Ventilating and Air-Conditioning
- C23 Ornamental Metals
- C36 Plumbing
- C38 Refrigeration
- C42 Sanitation System
- C43 Sheet Metal
- HAZMAT Hazardous Substance Certification
- ASME U, PP, R

Frank M. Booth, Inc. holds California Contractor's License 142219 and Nevada Contractor's Licenses 0008178, 0015940, 0017775.

Valley Sheet Metal Company holds California Contractor's License 465012.

Frank M. Booth Design Build Company holds California Contractor's License 793419.

Building Automation Systems



Overview

The Building Automation Systems segment of Frank M. Booth Inc. provides the building control system solutions for the projects installed by the company. Whether the project is design/build, design/assist, plan and spec, or direct-to-owner, the building control system is designed to fit the needs of the customer and provide the level of access, monitoring and functionality that the customer desires. Our system expertise includes electronic, pneumatic, and complete building automation systems (BAS) utilizing direct digital controllers. We provide complete system design engineering, installation, and thorough commissioning for all systems we provide.

With ever changing technology, building automation systems have evolved into very user friendly tools for the facility owner and operator. These technological advancements provide means to monitor various building systems to the level desired. The utilization of standards such as TCP/IP, the Internet protocol, allows authorized access via a standard web-browser to a system locally and remotely via the Internet. The implementation of standard communication protocols such as BACnet and LonWorks provide the means to communicate with and integrate various building systems and manufacturers.

With consideration to the above, the variety of solutions that are available is extensive. With necessary consideration and proper application, the ultimate solution provides a powerful tool to effectively and efficiently operate a facility. With all of the technologies and options available our focus with every opportunity is to not over complicate the system or lose site of basic needs of the facility operator.

Products

The primary BAS solution utilized by Frank M. Booth is the Talon system manufactured by Staefa Control Systems. The Talon system is LonWorks based at the device level and incorporates the open technologies provided with the Niagara Framework technology developed by Tridium, Inc. The peripheral devices incorporated into our solutions are manufactured by several industry recognized manufacturers which include Belimo, Veris Industries, Alta Labs, and Ebtron.

FMB – Design/build Office Building Automation System

The design/build office of Frank M. Booth Inc. incorporates a control system utilizing the technologies discussed above.

For more information, please contact Tim Baer, timb@fmbdbc.com
Building Automation Operation Manager.

Service & Maintenance Programs



Sutter Roseville Hospital
Design assist, mechanical
complete and metal roof ('97)

The service segment of Frank M. Booth, Inc. promotes reliability and energy efficiency in the operation of HVAC and mechanical systems. We offer O&M specified maintenance, repair and service programs for your HVAC equipment and control systems.

We are experienced in packaged HVAC systems and built-up systems with central hydronic distribution, as well as pneumatic, electronic and DDC control systems. Our technicians are on call 24 hours a day, 7 days a week. Our scalable solutions are outlined in the programs and can be tailored to your specific needs.

OUR PERFORMANCE BUILDS RELATIONSHIPS ®

Architectural Sheet Metal



Peninsula Jewish Center



Santana Row, Baker Street



University of California Stanislaus



900/1000 Marsh Road



YAHOO!



Altera

Peninsula Jewish Center, Foster City, CA

Classroom and multi-purpose campus. VSM installed, flashing, sheet metal, expansion joints and a 75,000 sf radius metal roof. CD: '04

Santana Row, San Jose, CA

Multi-use residential/commercial located in Silicon Valley. ASM for urban/renovation, revitalization project including flashings, prefinished metal siding, copper metal roofs and insulated metal wall panels. Approx 1,185,122 sq ft. ASM installation on 43 acre site. CD: 03

University of California Stanislaus, Turlock, CA

Educational Services Building for the Univ. of California, Stanislaus. FMB performed installation of metal shingles. CD: 2002

900/1000 Marsh Road, Menlo Park, CA

VSM shop fabricated exterior architectural panel system made of Rheinzink material. Consisting of two buildings, approximately 12,000 roof panels, 6,000 soffit panels, column covers, beam covers and stair cladding. CD: 2000.

Pixar Animation Studio, Emeryville, CA

An architectural project consisting of roof and wall panels, flashing and sheet metal and louvers completed in 2000.

YAHOO! Headquarters, Phase I, Sunnyvale, CA

An architectural project consisting of sheet metal flashing and expansion joints completed in 2000.

KLA Tencor Building 5, Milpitas, CA

An architectural project consisting of radiused roof panels, expansion joints, heavy gauge gutter and miscellaneous flashing completed in 2000.

SFIA – Concourse H/ART Station, N. Parking Garage, San Francisco, CA

An architectural project consisting of flashing and sheet metal, roof hatches and aluminum wall louvers. CD: '00.

SFIA – South Parking Garage, San Francisco, CA

An architectural project consisting of flashing and sheet metal, roof hatches, floor doors and aluminum wall louvers. CD: '00.

Altera Corporation, San Jose, CA

An architectural project consisting of radiused roof panels, gutters, heavy aluminum radius end wall panels, heavy aluminum eave panels and miscellaneous flashing. CD: '97.

Detention Facilities



Herlong, CA



Coalinga, CA

Herlong Federal Correctional Institution, Herlong, CA
Major prison for the Federal Bureau of Prisons including housing units, support facilities, and central plant totaling 660,000 SF. The project is located on an undeveloped desert site, and will be fully self-contained. Developed under a 4-month design schedule, Frank M. Booth, Inc. performed energy analysis and complete HVAC and piping design. The HVAC systems were designed to meet the Federal Code of Regulations, Life Cycle costing procedures and State Codes. Design was developed to ensure critical areas were operable at all times to meet demanding Federal Prison Standards. CD: '03

Coalinga State Hospital: Model Treatment Program (Correctional Institution), Coalinga, CA
Frank M. Booth performing piping and HVAC. Maximum-security 1,500-bed licensed psychiatric hospital complex with supporting facilities and infrastructure, including site development. The facility is fire resistive construction and includes automatic fire sprinkler systems. The approximately 1,100,000 square feet complex includes patient housing/treatment units with supporting units, administration offices, patient dining and other appurtenant facilities. CD: '04

Atwater Prison, Atwater, CA
7 housing units, 7 guard towers, 9 support buildings, 2 camp housing buildings, a central plant, and a central receiving building. Complete HVAC system installed by Frank M. Booth, Inc. CD: '00

Corcoran Prison BP-3, Corcoran, CA
20 guard towers, high security buildings, 6 minimum security buildings, & 10 general housing units. Manpower peaked at 13 men. Performed HVAC only. CD: '98

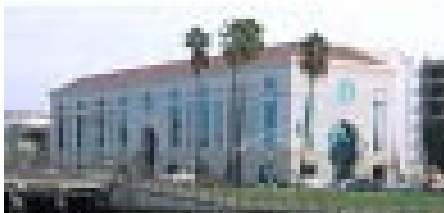
Government Facilities



San Francisco Int. Airport H/Art Station



San Francisco 911 Communications



Stockton Essential Services



Greater Sacramento Urban League



Sacramento International Airport



San Francisco Main Library

San Francisco Int. Airport H/Art Station, San Francisco, CA
North Parking Garage. Architectural project: flashing and sheet metal, roof hatches, floor doors and aluminum wall louvers. CD: '00

911 Communications Center, San Francisco, CA
Architectural project: porcelain panels. CD: '99

Stockton Essential Services, Stockton, CA
Four-story essential services building, 99,792 SF. Frank M. Booth installed two (2) 60-ton cooling only DX units to serve 1st and 2nd floors. Provided future AC curbs for 3rd and 4th floor and infrastructure for complete build out. Four (4) million BTU boiler for perimeter reheat. Included independent AC units for Telecom Rooms. Eight-story parking structure attached. CD: '01

Greater Sacramento Urban League, Sacramento, CA
Four-story and two-story office buildings, included hydronic boiler piping for perimeter reheat coils and high efficiency evap-condensed rooftop unit with condensing boiler. Duct system is VAV on the four-story building, and package rooftop units on two-story building. CD: '01

San Francisco Int. Airport, San Francisco, CA
South Parking Garage and Boarding Area "A". Architectural project: flashing, sheet metal, roof hatches and aluminum wall louvers. CD: '00

Sacramento International Airport, Sacramento, CA
International airport for the County of Sacramento. FMB performed HVAC for 327,000 SF terminal. CD '98

San Francisco Main Library, San Francisco, CA
Architectural: lead-coated radiused roofing, louvers and flashing. CD: '95

Medical Facilities



Modesto Memorial Medical Center



Sutter North MOB, Phase B



Oak Park Cancer Research Center



Kaiser 1680 Medical Office Building



Blue Shield



Novato Community Hospital

Modesto Memorial Medical Center, Modesto, CA

Medical addition including a 7 story tower, a 3 story central plant and a utilidor underground system. FMB is fabricating and installing complete mechanical systems for this major hospital project. HVAC/Plumbing/Piping CD: '07

Sutter North MOB, Phase B, Yuba City, CA

FMB designed and installed HVAC, medical gas, plumbing, piping and controls for two-story, 60,000 SF OSHPD-3 steel framed outpatient surgery center and medical office building. High efficiency evaporative condensing rooftop units. CD: '05

Oak Park Cancer Research Center, Sacramento, CA

Biophotonics research facility. FMB/DBC designed and built the process plumbing, process piping, hydronic piping, specialty exhaust and HVAC systems. CD: '05

Kaiser 1680 Medical Office Building, Roseville, CA

FMB/DBC converted single-story unimproved office shell to retail optical, pharmaceutical, IT service rooms, secure records storage and office space per Kaiser Design Build criteria. CD: '04

Blue Shield of California, El Dorado Hills, CA

240,000 SF office and cancer treatment center. Design build, HVAC, plumbing. CD: '01

Sutter Lakeside Surgery Center, Lakeport, CA

Phase II surgery and emergency department addition including HVAC, plumbing, piping and architectural sheet metal. CD: '01

Sutter North Medical Plaza, Yuba City, CA

Two story medical office building. Primary facility for urgent care consisting of X-ray, MRI and ultrasonic medical equipment. Performed complete plumbing and HVAC. Designed and constructed in 15 months. CD: '01

Kaiser Foundation Geary MOB, San Francisco, CA

Architectural sheet metal. CD: '00

Novato Community Hospital and MOB, Novato, CA

An architectural project consisting of sheet metal flashing and trim, wall louvers, custom sheet metal roof and expansion joints. CD: '00

Washoe Medical Office Building, Reno, NV

Four-story medical office building designed and built by FMB DBC. System consisted of DX air cooled units with hydronic hot water reheat VAV terminal units. A total of four-75 ton AC units and two-1800 MBH gas boilers. CD: '00

Process Piping (ASME U, PP, R)



Wild Goose Well Pad



Calpine



Knauf



Rio Pluma

Wild Goose Natural Gas Storage Project, Gridley, CA

High Pressure ASME Code gas piping fabrication and installation fall/winter of 2002. The project involved the piping of well heads during shutdown conditions. The site is located on a National Wildlife Refuge, and the project was successfully completed under extremely strict environmental control conditions. CD: '02

Calpine Sutter Power Plant, Yuba City, CA

Large office and warehouse facility, required two redundant split system AC units interlocked via controls for computer room. Fire protection consisted of combination wet and dry system with pre-action system for computer room area. CD: '01

Knauf Fiber Glass, Redding, CA

Piping and equipment installation for a new fiber glass plant, which will produce thermal insulation in rolls, sheets and loose fiber for the construction industry. Systems include process water, compressed air, combustion air, and natural gas. CD: '01

Kikkoman Foods, Koji Bed – Shikomi Tank, Folsom, CA

Industrial building for food processing. The system consisted of compressed air, high-pressure water, process water, food conveying pipe, hydronic piping, and duct systems. CD: '00

UNR Fire Science Academy, Carlin, NV

12 building state-of-the-art fire and hazardous materials training facility. This project included the installation of underground firewater and dual contained fuel oil distribution systems to 14 fire training pads. Makeup fire water was provided by two wells feeding 3 each, 2 million gallon ponds and pumped to the fire training pads via 3 each, 750 HP vertical turbine, diesel driven pumps. CD: '99

Beale Air Force Base, Academic Training Complex

Beale AFB, Marysville, CA

155,000 GSF, US Air Force training building. Performed HVAC, plumbing and piping. Project completed within two years.

Sunwest Mill, Sacramento, CA

Industrial building for rice processing mill. Plumbing, compressed air, natural gas and HVAC provided by Frank M. Booth. CD: '00

Rio Pluma LLC, Gridley, CA

The Owner disassembled and shipped an entire Prune Juice Processing Facility (including holding tanks, pumps, heat exchangers, and controls) from San Jose to sixty miles north of Sacramento. FMB re-assembled the plant with completely new interconnected process piping. FMB furnished structural steel personnel platforms and equipment decks. CD: '99

Special Interest Projects



621 Capitol Mall



Cathedral of the Blessed Sacrament



Stockton Arena



Stockton Ball Park



A. G. Spanos



Advanced Micro Devices

621 Capitol Mall, Sacramento, CA

New construction, 300,000 sq ft, 400 ft tall spec building. 25 occupied floors above 8 levels of garage parking. Mechanical engineer. CD: '07

Cathedral of the Blessed Sacrament, Sacramento, CA

Complete renovation of a 110 year old multi-story cathedral. Upgrades include new HVAC and plumbing systems CD: '05

Stockton Arena, Stockton, CA

Indoor event center. This 220,000 SF, 10,000 seat venue will host sport and entertainment activities. FMBDBC engineered and installed complete mechanical, plumbing and control systems. CD: '06

Stockton Ball Park, Stockton, CA

Class A ball park. FMBDBC installed complete mechanical, plumbing and control systems. CD: '05

A.G. Spanos Headquarters, Stockton, CA

Headquarters office facility. FMBDBC engineered and installed mechanical and BAS systems on this 5 story building which includes a roof top helicopter filtration and fuel retention system. CD: 05

Advanced Micro Devices, Sunnyvale, CA

On-going clean room and tool fit-up work. Design and fabricate specialty items as requested. Onsite since 1990.

Special Interest Projects



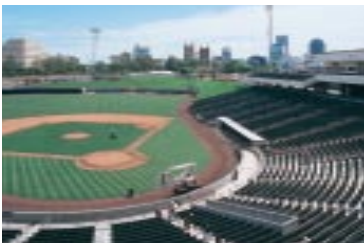
Meridian Plaza



UC Davis Mondavi Center for the Arts



Rolling Hills Casino



Raley Field



Monterey Bay Aquarium

Meridian Plaza, Sacramento, CA

240,548 SF, 12-story office building, built-up mechanical penthouse. Project included a 64,500 SF subterranean parking structure. CD: '03

UC Davis Mondavi Center for the Arts, Davis, CA

Performing Arts Hall on the University of California Davis Campus. Frank M. Booth, Inc. installed plumbing and hydronic piping, including substantial site hydronic distribution. CD: '02

Rolling Hills Casino, Corning, CA

Site Improvements for casino located on an Indian reservation. 50,000 sf casino - FMB performed Design/build, HVAC and Plumbing. CD: '02

Raley Field, West Sacramento, CA

HVAC, plumbing, architectural sheet metal for AAA ballpark. Designed and built in 6 months. CD: '00

Monterey Bay Aquarium Research Institute, Monterey, CA

Research Institute Building B Expansion, Monterey, — New 50,000 SF, two-story R & D building with seawater tank for testing of submersibles. Performed HVAC, plumbing and piping. Installed air handlers, mist eliminating filter bank, SS exhaust and intake air penthouses, and exhaust fans. CD: '00

Monterey Bay Aquarium, Monterey, CA

Project consisted of two phases – Retrofit and Infill. Retrofit was the addition of heating and cooling to the existing office space in Building B. The infill portion consisted of the addition of four new labs in the workshop area of Building B. CD: '01

MBA Research Institute, Monterey, CA

Aquarium expansion. FMB provided mechanical, plumbing and piping for this 50k SF R and D building for submersible testing. CD: '00

Monterey Bay Aquarium Light and Dark Exhibit, Monterey, CA

Life support system for the new exhibits, including seawater piping and chilled water piping. Installation of 12 Fybroc centrifugal pumps, 8 vertical sand filters, ozonation system, fractionator towers, boilers, chillers, plate heat exchangers and vertical aeration towers. CD: '99

Technology Projects



Pixar Animation Studio



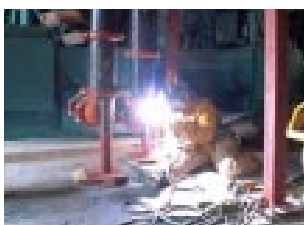
Advanced Micro Devices



YAHOO!



Altera



Coherent

Pixar Animation Studio, Emeryville, CA

An architectural project consisting of roof and wall panels, flashing and sheet metal and louvers. CD: '00

YAHOO! Headquarters, Phase I, Sunnyvale, CA

An architectural project consisting of sheet metal flashing and expansion joints. CD: '00

Advanced Micro Devices, Sunnyvale, CA

On-going clean room and tool fit-up work. Design and fabricate specialty items as requested. Onsite since 1990.

Major Electronics Firm, Folsom, CA

Office building and research development facility. Work included HVAC, plumbing and process piping. CD: '98

Genentech, Vacaville, CA

50k SF biotech clean-room and manufacturing facility. Work included HVAC, plumbing and power piping. CD: '99

Affymetrix, Building A, West Sacramento, CA

Plumbing for acid waste systems, clean room HVAC, future space provisions, design and permitting responsibilities and office buildings. CD: '98

KLA Tencor Building 5, Milpitas, CA

An architectural project consisting of radiused roof panels, expansion joints, heavy gauge gutter and miscellaneous flashing. CD: '00

Altera Corporation, San Jose, CA

An architectural project consisting of radiused roof panels, gutters, heavy gauge aluminum radius end wall panels, heavy gauge aluminum eave panels and miscellaneous flashing. CD: '97

Hewlett Packard, Syntex R-10, Roseville, CA

Data center upgrade. Work included HVAC. CD: '95

Coherent, Inc., Auburn, CA

Design build for structural remodel. HVAC, piping and process piping. CD: '01

Telecom Projects



Sprint E-Solutions



Raging Wire



Frontier Global



ISO

Sprint E-Solutions, Santa Clara, CA

160,000 SF existing building. Full N+1 redundancy, 6,000-ton central plant, fuel oil systems, extensive piping and ductwork. Project executed in six months with additional buildout in second three-month phase. CD: '01-'02

Raging Wire, Sacramento, CA

190,000 SF data center. Fast-track project with 30 day design and engineering process and four month construction schedule. Designed and built by FMB DBC. CD: '01

Teale Data Center, Sacramento, CA

Premier data site for the State of California. 2550 tons total with N+1 redundancy. Emergency power with 48-hour fuel capacity. Designed and built by FMB DBC. CD: '00

Frontier Global Center, Sunnyvale, CA

Second largest co-location centers in the State of California. 100,000 SF building demolition and retrofit resulting in 65,000 SF of raised floor computer room and 35,000 SF of office space. Scope consisted of plumbing and closed loop water-cooled HVAC system. Under floor condenser water piping to 66 computer room units designed to isolate piping sections as required. System designed to isolate leaks while continuing to maintain an operational facility in the event of an 8.0 magnitude earthquake. Design/assist and built by FMB DBC. CD: '99

Caspian Global Center, Sunnyvale, CA

100,000 SF building demolition and retrofit resulting in 75,000 SF of raised floor computer room and 25,000 SF of office space. Scope consisted of plumbing and closed loop water-cooled HVAC system. Under floor condenser water piping to 25 computer room units and 40 self-contained AC units designed to isolate piping sections as required via isolation valves. CD: '01

ISO Data Center, Folsom, CA

Rebuild two 360-ton Trane chillers, cooling towers, boiler and many circulation pumps. Repair and certification of a 12,000 gallon underground diesel tank, extensive pneumatic and VFD control work, replacement of four rooftop air handling units, installation of 12 Liebert units in a 27,000 SF computer floor environment, extensive ductwork modifications. CD: '97

Roseville Telephone Building D, Roseville, CA

78,000 SF, two-story office building with basement. Project included a raised floor with under floor air distribution system, and DX cooling only custom units. Chilled water and heating hot water from (E) central plant. CD: '00

References



San Jose Convention Center
300' continuous span radius
metal roof ('88)



San Francisco
Museum of Modern Art
Architectural sheet metal ('95)

Regent Development, Inc.

Developers
Mike Courtney
John Thomas
(916) 418-1660

J.R. Roberts Corporation

Contractors
Bob Olsen
(916) 729-5600

Sutter Health

Owners
Dave Pixley or Tom O'Leary
(916) 286-6574

Lundquist Construction Management

Construction Managers
Keith Lundquist
(408) 280-2081

Harbison-Mahony, Higgins, Inc.

Contractors
David Higgins, Jr.
(916) 383-4825

Guttman & Blaevoet

Mechanical Engineers
Steve Guttman
(415) 625-0730

LPA , Inc.

Architects
Lynn Pomeroy
(916) 443-0335

Rudolph & Sletten, Inc.

Contractors
Dan Dolinar
(650) 572-1919

Turner Construction Company

Contractors
Frank DaiZovi
(916) 614-9311

Banking / Surety Resources



San Francisco
Main Library Radiused
metal roof ('95)

U.S. Bank

980 Ninth Street, Suite 1100
Sacramento, CA 95814
Mark McElroy
(916) 552-5646

Traveler's Casualty and Insurance Company of America

Agent: Aon Risk Services
99 Almaden Blvd., Suite 400
San Jose, CA 95113
Mr. Dick Svec
(408) 534-6305



Frank M. Booth, Inc.
P.O. Box 5
Marysville, CA 95901
530.742.7134 T
530.742.8109 F

Valley Sheet Metal Co.
391 Forbes Blvd.
So. San Francisco, CA 94080
650.871.8292 T
650.589.1844 F

Frank M. Booth Design Build Co.
4220 Douglas Blvd., Ste. 5
Granite Bay, CA 95746
916.784.0777 T
916.784.0707 F

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