

CURRICULUM VITAE

THOMAS FREDERICK MARTIN
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WORK EXPERIENCE:

Currently **Thomas F. Martin – Consulting**
27100 Baldy McCulley Road
McArthur, CA 96056

Duties: **Principal** and sole employee of firm started in 2003 to advise owners and contractors about constructability, project costs, contract considerations, pre-construction considerations (contract type, risk transfer, pitfalls, etc. associated with underground construction). Current clients include: Meridian Energy (New Zealand); Dept. of Water Resources (California); SK&E (S. Korean Construction Co.). Member in good standing of Disputes Review Board Foundation and Society of Mining Engineers.

11/07 – 01/10 **Parsons Brinckerhoff**
303 Second Street, Suite 700N
San Francisco, CA 94107

Duties: **Senior Supervisor Engineer** for PB's Geotech and Tunneling Group. Worked from home estimating underground construction and providing constructability reviews. Work included pricing 6 highway tunnels in South Korea, twin 54' diameter road tunnels near Los Angeles, CA. and several sewer tunnel projects. Developed Engineer's Estimated costs for rehab of both a railroad tunnel and a highway tunnel on U. S. east coast. Used Heavy Bid (HCSS) to provide "bottoms up" estimates and spoke on this method of cost development at the 2009 RETC convention in Toronto, Canada.

6/06 – 11/07 **URS Corporation**
2870 Gateway Oaks Blvd.
Sacramento, CA 95833

Duties: **Field Engineer** for Emergency Levee Repairs overseeing Contractors and inspection staff. Worked from the CM office in Colusa, CA and was responsible for 13 repair locations including rock placement, excavations, environmental compliance, planting and plant maintenance. Work completed by 3 separate contractors (Steelhead Constructors, Nordic Industries and The Dutra Group).

10/04 –6/06

URS Corporation

2870 Gateway Oaks Blvd.
Sacramento, CA 95833

Duties: **Resident Engineer** for 7,700 lf of 120” soft ground tunnel contract that will be mined by a Lovat and supported by ribs and lagging. Tunnel system is a “two-pass” system and the final product is 72” RCP installed in the tunnel with lean grout backfill in the annulus. The project includes 10 manholes, two turning shafts and 2 exit/retrieval shafts in Rancho Cordova, CA. The depth to tunnel invert is approximately 42’ and there is the possibility of contaminated soil (hydrocarbons) in two zones which were identified during the soil sampling process. Project duration is 560 calendar days and with NTP occurring on November 15, 2004 completion is due on May 28, 2005.

04/03 – 10/04

Thomas F. Martin Consulting/URS included consulting work for MEL on various tunnels in New Zealand and Australia (feasibility studies and costing of alternatives) and work on URS proposals for three (3) major tunnel projects (Sacramento, CA and Detroit, MI offices). As a consultant had oversight of an emergency remedial work on Muck Valley Hydroelectric Tunnel near Nubieber, CA which included 100 cy of shotcrete applied to strengthen a crack pattern in the original shotcrete lined tunnel and backfill grouting to fill suspected voids outside the tunnel which has been in operation since 1988. Member of a formal Value Engineering review team on Brightwater Project in Washington.

08/96 – 03/03

Meridian Energy Limited (MEL)

(Formerly)

Electricity Corporation of New Zealand (ECNZ)

Private Bag
Manapouri, New Zealand

Duties: **Project Director and Engineer to the Contract** for 10 meter diameter, 10 kilometer long TBM tunnel for the Manapouri Power Station. This \$260 M NZD project is located in Fiordland National Park, South Island, NZ. Duties included oversight of the pre-tender period which consisted of the Interactive Tender Process and selection of the successful Tenderer from the short-listed group of Contractors responding. In charge of a team of 20 construction staff plus Consultants including a Site Representative, 6 Inspectors, Safety Inspector, Geologist, Q.C. Manager, and office personnel during construction phase. I was responsible for several other contracts supplementing the main Works. Reported to the Manager of Generation located in MEL’s Christchurch office. The Project is 100% complete with all claims and variations settled and final costs paid to Fletcher-Dillingham-Ilbau the Contractor. A Tunnel Inspection planned for 01 – 15 March 2003 will complete the 12 month maintenance period for FDI and provided there are no outstanding issues a Completion Certificate will be issued. Tender price with adjustments was \$189,764,999 and the final Contract value paid of \$207,612,337 including Incentives and early completion bonuses not contained in the original contract reflects sound management practices. The Contract included \$50,000/day Liquidated Damages (LD’s) for completion after expiration of allowed time and because all work was done by 3 May 2002 LD’s were never came an issue.

07/94 - 07/96

MK - ETKIN

2699 Greenfield Road

Dearborn, Michigan 48120

Duties: **Construction Manager** for the City of Dearborn's 12,000' tunnel project. Duties included progress meetings, interface with owner, overseeing staff of inspectors, office engineers, secretary (total of 7 persons max.), including verification of payment requests, correspondence, etc. Project was approximately 25% complete as of end of November 1995. This project was suspended then canceled due to problems with hydrogen sulfide gas.

03/94 - 07/94 **PARTNER, EMU ACRES**
4870 Montgomery Road
Midlothian, Texas 76065

12/91 - 03/94 **PB/MK**
5510 S. Westmoreland Road
Dallas, Texas 75237

Duties:
12/93 - 03/94 **Area Manager** for shutting down all field phases of construction on the Super Conducting Super Collider (SSC). In charge of closing out \$200 million worth of terminated contracts on surface and underground.

12/91 - 12/93 **Area Manager - Underground** for the SSC. I managed the Underground Area Office with staff that included R.E.'s, inspectors, clerical, etc. Project was to include 70 miles of tunnels, numerous shafts, collider halls, and tunnel lining. Review designs for constructability, timeliness, and interface problems. Oversaw all work below surface which was being done by subcontractors. Tunnels constructed by TBM's through either shale or limestone, depending on location of contract.

07/88 - 12/91 **MORRISON KNUDSEN/PASCHEN**
P.O. Box 1009
North Riverside, Illinois 60546

Duties: **Project Manager** on a \$156,631,000 tunnel project for Chicago's MWRD (formerly MSD). Contract consisted of 21,669 lf of 35' - 4" tunnel, concrete lined back to 33' - 0", 14,000 lf of 12' - 4" tunnel lined back to 10' - 0", one 30' x 255' construction shaft, 18 drop shafts ranging from 4' to 9' finish diameter and all approximately 240' deep. Drop shafts were bored by a Hughes Blind Hole Drill. TBM muck was handled by conveyor systems, including a 280' lift at the main construction shaft.

02/86 - 07/88 **OHBAYASHI CORPORATION**

Duties: **Project Manager** on a \$27,000,000 tunnel project for Metropolitan Waste Control Commission. This project consisted of 21,000 lf of 12' - 2" tunnel lined to 10' - 0"; an underground meter chamber 80' below grade 165' long x 30' wide x 35' high; 5 work shafts 20' x 80'; 10 access shafts 5' x 80'; 4 drop shafts and related sewer hookups.

02/83 - 02/86 **SEVEN K CONSTRUCTION COMPANY**
770 Frontage Road
Northfield, Illinois 60093

Duties: **Operations Manager** for Open Shop Construction Company. Duties included interaction with project managers and other job site personnel. Also involved in method of construction and approval of equipment purchases and estimating.

PROJECTS:

Onion Creek Intercepting Sewer 10/83 to 12/85

Description: 20,492 lf of 7' finished tunnel completed for the City of Austin, Texas. Job included 8 manholes and a low diversion structure plus other minor items. Directly responsible for the bidding and costing plus worked with the Project Manager in selection of some concrete equipment, methods and personnel.

Entrenchment Creek Tunnel: 01/84 to 04/86

Description: 9,444 lf of 26' tunnel done for the City of Atlanta, Georgia. Job was driven using a modified 30' Jarva TBM and mucking was accomplished using a continuous conveyer in spite of 3,000' and 1000' radius curves. Bid and worked with Project Manager in final selection and negotiating the first use in the U.S. of a Japanese Tray Lifter for moving tunnel muck to surface.

As **Operations Manager** for Seven K, I assisted in estimating a wide variety of projects. Also took an active role in setting up and sending out Joint Venture documents and instructions when 7-K bid with other companies. Functioned as a sounding board for the company president and had input into policy matters concerning Seven K. Reviewed and authorized payments for invoices and equipment subcontracts and major suppliers on those projects which were answerable to me.

During my employment with Seven K, the company bid through the sun belt states and were successful on some 35 - 38 million dollars of work. On most of these projects, I was directly involved in the bidding and many times headed up the estimating team.

07/82 - 02/83

HARZA ENGINEERING COMPANY

150 South Wacker Drive
Chicago, Illinois 60090

Duties **Senior Construction Management Specialist** for reviewing Engineer estimates, preparation of feasibility estimates and methods. I also worked on proposals to clients and edited a manual for Harza's estimators.

PROJECTS:

Bapan and Dawan Tunnels
Peoples Republic of China

Description: In May 1983 (while employed by Seven K) I was one of an 8-man team under contract to the U.S. Government. We traveled to China and, through observations and costing estimates evaluated the economics of using TBM's to bore some 129,000 lf of power tunnels for two separate hydroelectric projects. Following presentation of our recommendations, the Chinese purchased 2 TBM's which had previously been used on Chicago's TARP project.

Water Tunnel
Chili

Description: In early 1983, I traveled to Santiago, Chili and reviewed a Harza designed tunnel for a large copper mine. Also made a complete Engineer's estimate and cleared up some problems the specifications contained. This work was accomplished in a 2 week period.

01/78 - 07/82

SHEA-KIEWIT
1050 South Sells
Chicago, Illinois 60090

Duties: **Project Manager** on a \$101,689,980 tunnel project for Chicago's MSD. Contract consisted of 13,726 lf of 32' - 4" tunnel concrete lined to 30'; 6,829 lf of 15' - 3" tunnel lined to 13'; one 30' x 260' construction shaft; and 17 drop shafts between 4' and 12' finish diameter all about 240' deep. Responsibilities began with the original estimate and joint venture instructions and progressed through complete job site management once the project actually began. I was in charge of all on site personnel and at one time there were 280 men in the work force. Tunnels were bored using a Robbins 32' TBM and a 15' Jarva TBM. Drop shafts were bored using a Hughes 820-4 Blind Hole Drill. Boot and adit construction was done by drill and blast.

10/76 - 01/78

J.F. SHEA COMPANY
Bethesda, Maryland

Duties: **Estimator** in Shea's Eastern Office. Handled bid preparations, job site investigations, joint venture meetings, instructions, etc.

02/75 - 10/76

GORDON H. BALL, INC.
McLean, Virginia

Duties: Began as **Senior Estimator** in Ball's eastern office and within 3 months progressed to the position of **Chief Estimator**. During this time, I directly supervised the preparation of all bidding done by this contractor on work east of the Mississippi river assisted by a staff that varied from 4 to 11, depending on field workload. During the time Ball submitted bids on some \$5,000,000,000 worth of construction and were successful (low bidder) on work totaling \$150 million. The largest single project bid successfully as sponsor during this time was WMATA'S A6b project for nearly \$71 million. I also handled preparation and submittal of "cost plus" and "target fee" proposals during this period.

05/73 - 02/75

S.J. GROVES
Mattapan, Massachusetts

Duties: Assigned to Groves' Dorchester tunnel project as **Tunnel Estimator**. Project consisted of 33,000 lf of 11' finish concrete-lined tunnel. Excavation was done both by TBM and conventional methods. Had no job site responsibilities but was used to estimate other work. I handled instruction for joint venture instructions, estimates, job investigations, etc.

11/70 - 05/73

S.J. GROVES
Minneapolis, Minnesota

Duties: **Tunnel Estimator** working in the main office. Duties included heading up tunnel estimates, job site visits and reports, joint venture instructions, etc.

08/68 - 11/70 **ALAMO AIRWAYS, INC.**
Alamogordo, New Mexico

Duties: **President and General Manager** of flying school and air charter service. Responsibilities included running the business while doing considerable charter flying and flight instruction. I held most single and multi engine ratings. Also, during this time, went to Australia as a **consultant** for the J.F. Shea Co. to bid on two sewer tunnels near Melbourne. Near the end of this time I worked as a **consultant** for S.J. Groves estimating two tunnels in New Mexico.

01/66 - 08/68 **SHEA-KAISER-MACCO**
Farmington, New Mexico

Duties: **Project Engineer** on Navajo 2 Tunnel, built for the USBR in Northern New Mexico. Tunnel constructed was 25,000' long with a 17.5' horseshoe-shaped finish. Tunnel was driven by drilling and shooting. Handled all surveying, claims, cost reporting and did estimating.

09/64 - 01/66 **SHEA-KAISER-MORRISON-MACCO**
Redding, California

Duties: **Cost Engineer** for this series of four tunnels totaling nearly 50,000 lf. Excavation was all done conventionally and only a portion of the tunnels was concrete lined. This project for PG&E was called Pit McCloud and included the power tunnels leading to Pit 6 powerhouse. I was responsible for field engineering and cost records when we were on "cost plus" work and met with PG&E field representative to settle agreed costs. During this time, I began tunnel estimating, including job site pre-bid visits.

06/62 - 09/64 **STATE OF ALASKA**
Valdez, Alaska

Duties: Various duties associated with a one of the State's Highway Department offices. I first worked in the pre-construction section and later in construction and served at various times as a **Party Chief, inspector and Assistant Resident Engineer**. Winters were spent in the district office in Valdez doing design work.

Academic History: BSCE Chico State College, Chico, California
Graduated 1962

Personal References on Request