

## Compendium of Projects

Brian E. Moll PE,SE,SECB

Principal-in-Charge

### SCBC Engineering PLLC

*A Structural Engineering Company*

16121 N. Meadowdale Rd.

Edmonds, WA 98026

206.351.2217

[brian.moll.se@gmail.com](mailto:brian.moll.se@gmail.com)

[www.scbcengineering.com](http://www.scbcengineering.com)

**Costco International- Costco Docklands** Melbourne, Australia **Size/ Cost:** \$42.0 Million, 2 stories, XXXX sq ft, Subterranean Parking Garage XXX sq ft.

**Bank of America-Western Washington Data Processing Center ^** Renton, WA **Size/ Cost:** \$12.0 Million, 1 story, 36000 sq ft, Structural Slab Courtyard 7350 sq ft.

**Bank of America- Industrial Sorting Center^** Gresham, OR **Size/ Cost:** \$6.5 Million, 1 Story, 20750 sq ft.

**Fillmore Center`** Fillmore District, San Francisco, CA **Size/ Cost:** (2) 7 Story and (1) 10 Story, multiuse cast-in-place concrete setback buildings+ landscape structures.

**Phoenix Newspapers Inc`** Deer Valley, AZ **Size/Cost:** \$40 Million, 2 Story +High bay with Mezzanine, 280000 sq ft .

**Cabelas- Greenwood^** Greenwood, Indiana **Size/Cost:** \$24.3 Million, 1 Story, 139300 sq ft [435x320].

**Cabelas- Wheatridge^** Wheatridge, Colorado **Size/ Cost:** \$32.2 Million, 2 Story, 185000 sq ft [300x320].

**West Elm- Millenia^ Orlando, Florida** **Size/ Cost:** \$4.2 Million, 1 Story, 18000 sq ft .

**29th St Development-Parking Garage^** Tacoma, WA. **Size/ Cost:** \$25 Million, 4 Stories, 660000 sq ft [240x635] . Project Halted @ 75% design.

**Lakemont Medical/Dental Office Bldg \* Bellevue, WA** **Size/ Cost: \$3+ Million, 2 stories above parking level, 12000 sq ft parking, 23400 sq ft office.**

**Plateau Professional Center \* Sammamish,WA** **Size/ Cost:** \$2+ Million, 3 stories 14000 sq ft .

**Pacific Marine Management Hangar\* Sun Valley (Hailey), ID** **Size/ Cost:** \$4.5 Million, 1 Story, 29000 sq ft. plus 1000 sq ft mezzanine.

**Edgewater Townhomes \* Lake Chelan, WA** **Size/ Cost:** (4) 2 story units above concrete parking level garage, Project Un-built.

**Calvert Services Inc Drying/Storage Building\* Maltby, WA** **Size/ Cost:** \$6.0+ Million, 1 Story, 43300 sq ft.

**Covered Bridge\* Stanwood, WA** **Size/ Cost:** \$120K, 63 ft main span.

**LDS Church addition ~ Thatcher, AZ** Work performed: Structural design of major additions.

**Ramblewood North Condominiums~ Phoenix, AZ** **Size/ Cost:** 3 story wood framed condominiums.

## Single Family Residence\*

- Annie Meadows Residence: \$300K, 3 Story, 2800 sq ft., Seattle, WA
- Moll Residence: \$250K, 3 story, 2000 sq ft., Edmonds, WA.
- Richards Residence: structural condition assessment and strengthening, Sammamish, WA.
- Mantooth Residence: Balcony addition, conservatory feasibility study. Edmonds, WA.
- Dan Callan Residence: New deck and hanging support system. Seattle, WA
- Kevin Callan Residence: Westside addition and seismic strengthening. Seattle, WA.
- Malmstrom AFB Family Housing phases 3, 4, and 6, Malmstrom, AFB Montana: design of new 3 and 4 bedroom single family residences.
- Tradewinds Development, Phoenix, AZ : House plans C1625, C1003, C2312, and C1443. ~

## Value Analysis/Constructibility Studies^ \*

- Kenmore Junior High: Value Analysis Study
- Woodland Elementary School: Value Analysis Study
- Nisqually Middle School: Value Analysis Study
- LakeRidge Middle School: Value Analysis Study
- N. Kitsap High School: Value Analysis Study
- Amgen AW12-LAR- Value Engineering Study
- Woodland Elementary School- Constructibility Study
- Lake Washington School District – Finn Hill Junior High Modernization Value Analysis Study
- Kennewick School District – Cottonwood Elementary School Constructability Review
- Kennewick School District – Canyonview Elementary School Constructability Review

## Seismic Evaluation-Rehabilitation/ Condition Assessments

- Spinnaker Apt Complex, Kirkland, WA: Structural evaluation and seismic upgrade.\*
- Puget Sound Christian College, Edmonds, WA: Tier 1 Seismic screening of entire campus and accompanying report.\*
- Hoyt Garage, Everett, WA: Tier 1 seismic screening/report.\*
- 126 West Estates, Everett, WA: Condition Assessment letter.\*
- Federal Aviation Administration-Lind Ave SW, Renton, WA: Tier 1 seismic screening/report.^
- City of Edmonds Frances Anderson Center: Tier 1 seismic screening/ report.\*
- 1736 4th Ave South, Seattle, WA: \$1 Million, 1 Story with mezzanines, 20000 Sq ft, Structural Design and detailing to FEMA 356/ ASCE 41 to permit submittal.
- USPS Tacoma Downtown Station: Tier 1 seismic screening.

## Industrial Facilities^ \*

- Boeing retaining wall: Boeing Office Complex, Everett, WA. Combined depressed roadway retaining wall at overpass.
- Boeing Tooling Facility, Bldg 1710 Auburn, WA: Seismic Evaluation of existing structure, Mech equipment support, mezzanine, full height draft wall.
- Texaco Tumwater/ Texaco Anchorage: Bottom loading rack canopies, pipe supports, foam building
- Boeing Boiler plant bldg 3-374/ Boeing paint hangar Bldg 3-369: Seismic evaluation, Mech Equipment support, addition design
- Boise Cascade re-roof, Boise Cascade Mill, Steilacoom, WA: Floating new rigid bent supported roof over existing failing trussed roof below.
- City of Rainier- Tank Foundation
- Texaco TRMI- Tank Foundation
- Chip transfer conveyor and Incline chip conveyor, Clarkston, WA: Design of conveyor supports and foundations.
- Boeing Boiler and fuel jet pads/Walkways, Boeing North Field, Seattle, WA: Mat Foundation, Containment Structure and elevated platforms.
- Holnam Inc, Seattle, WA: Stormwater detention tank, and Kiln pier #5 study.
- Weyerhaeuser, Everett, WA: Foundation design for pre-engineered metal building.
- Pederson Bros-Seattle, WA: Extended end plate moment frames for fabricator on industrial project.
- Mountain Bell remote switching module, Wintersburg, AZ: design foundations for pre-engineered metal building

## Tenant Improvement/ Remodel^ \*

- Nordstrom Rack-Cleveland, OH: Entry Portal
- Nordstrom-Santa Anita, CA: Entry Reconfiguration Seismic Implications
- Cabelas Xanadu- East Rutherford, NJ: Entry Portal,Column Wraps, Operable partitions/Slider supports, opening framing.
- Nordstrom Arden Fair: Heavy soffit evaluation and detailing
- Sammamish Office Building: Curved soffit design and building signage support.
- Skagit Valley Square-Mount Vernon, WA: Design and detailing of storefronts from conversion of enclosed mall to exterior strip mall.
- Southern Palm center Remodel, Tempe, AZ: Reinforce openings placed in existing shear walls.~
- West 1st St. Restaurant, Mesa, AZ: Historic houses reconfiguration into restaurant.~
- McDonalds E Broadway, Tucson,AZ: Patio lanai and patio addition~

## Load Investigations/Studies^\*- ( Various )

- FAB 13: Structural Analysis of heavy file placement in new TI work
- McDonalds Touchstone: Structural Analysis of heavy file placement in new TI work
- High Density File loading: Structural Analysis of heavy file placement in new TI work
- Bank of Tokyo: Structural Analysis of safe placement in new TI work
- Emerald Queen Casino: Structural study of lateral stability
- Wall Street bldg, Everett, WA: Structural Analysis of Heavy File placement in new TI work

## Cardon Oil Convenience Markets~

- Brown & Higley Rd, Mesa, AZ.
- 67th Ave & McDowell Phoenix, AZ.
- 7th St & Baseline, Phoenix, AZ.
- 59th Ave & Olive, Phoenix, AZ.
- Apple Blossom & Iron Springs Rd, Prescott, AZ.

## DoD

**WAATS -Combat Mission Simulator Facility\*** Silverbell ARNG Heliport, Marana, AZ Size/ Cost: \$6.2 Million, 2 story + high bay, 46000 sq. ft.

**BEQ Bremerton P-283\*** Puget Sound Naval Shipyard, Bremerton, WA

**Size/ Cost:** \$12 Million, Housing units floors 2-12 @ 83500 sq ft, Support services and parking @ level 1 and additional 2 stories below grade parking @ 66000 sq ft.

**Flight Simulator Addition McChord\*** McChord, Air Force Base Tacoma, WA Size/ Cost: \$1.5 Million, High Bay with mezzanine, 4060 sq ft.

### Fort Lewis Command Headquarters\*

- Battalion Headquarters
- Company Operations
- Brigade Headquarters
- Barracks

Ft. Lewis Military Base, Tacoma, WA Work Performed:Structural Design and Detailing to 35% submittal stage, Proj Halted for Future Scope Update.

**BEQ II Bremerton P-297\*** Puget Sound Naval Shipyard, Bremerton, WA Size/ Cost:\$12.7 Million, Housing units floors 1-4 @ 81300 sq ft, Support services and parking @ level 1 and additional 2 stories below grade parking @ 69300 sq ft.

**300 Man Barracks\*** Ft. Lewis, WA **Size/ Cost:** \$13 Million, 3 story, 110000 sq. ft.+/-

**Flight Simulator Facility\*** Fairchild Air Force Base, Spokane, WA **Size/ Cost:** \$4 Million ,2 story, 24000 sq. ft.

**Squadron Operations\*** Fairchild Air Force Base, Spokane, WA **Size/ Cost:** \$5.5 Million, 2 story, 40900 sq. ft.

**Squadron Operations\*** McChord Air Force Base, Ft. Lewis, WA **Size/ Cost:** \$5.0 Million, 2 story, 33000 sq. ft.

**B-1 Bed Down Project\*** Mt. Home Air Force Base, ID **Work Performed:** Seismic Study

**KC-135 Squadron Operations II\*** Fairchild AFB, Spokane, WA **Size/ Cost:** \$5.6 Million, 2-story, 40900 sq ft,

**C-17 Maintenance Training Facility\*** McChord, AFB, Ft. Lewis, WA **Size/ Cost:** \$5.0 Million, 1 story, 34336 sq. ft. [3190 Sq m]

**Physical Fitness Center P-277\*** Puget Sound Naval Shipyard, Bremerton, WA **Size/ Cost:** \$7.6 Million, 1-Story+ Significant Mechanical Mezzanine ,44078 Sq. Ft. Design-Build w/ Howard S. Wright

**BEQ Fallon P-322\*** Naval Air Station, Fallon, NV **Size/ Cost:** \$13.3 Million, Housing units 3 stories, Support services 1 story, 71041 Sq. Ft.[6600 Sq m]

**KC-135 Squadron Operations III\*** Fairchild AFB, Spokane, WA **Size/ Cost:** \$5.6 Million, 2-story, 40900 sq ft,

**Squadron Operations II\*** McChord Air Force Base, Ft. Lewis, WA **Size/ Cost:** \$5.2 Million, 2 story, 33000 sq. ft.

**KC-135 Squadron Operations IV\*** Fairchild AFB, Spokane, WA **Size/ Cost:** \$4.9 Million, 2-story, 40900 sq ft,

**Squadron Operations III\*** McChord Air Force Base, Ft. Lewis, WA **Size/ Cost:** \$5.2 Million, 2 story, 41200 sq. ft.

**Squadron Operations IV\*** McChord, AFB, Ft. Lewis, WA **Size/ Cost:** \$5.5 Million, 2 story, 31000 sq. ft.

**Enhanced Training in Idaho\*** Mountain Home, AFB, ID **Size/ Cost:** \$17.7 Million, Multiple structures, 7000 sq ft Maint Complex, 400 sq ft Generator Bldg, 500 sq ft Pump House, 500 sq ft Emitter bldgs. Design-Build: RSCI of Boise ,Idaho

**Redhorse Medical Training facility\*** Camp Murray, ANG, FT. Lewis, WA 2 story, Structural Design and Detailing to 30% submittal

**Information Warfare Agressor Squadron (IWAS)\*** McChord, AFB, FT. Lewis, WA **Size/ Cost:** 3 story, 23,000 sq. ft. **Work Performed:** Structural Design and Detailing to 35% submittal, Metric Project Halted Due to Site Change

**Geiger Heights Water Tower\*** Fairchild AFB, Spokane, WA **Work Performed:** ( Industrial ) OSHA study, and Structural Design and detailing of added ladder, cage and access platform.

**Golf Maintenance Facility\*** McChord AFB, Ft. Lewis, WA **Size/ Cost:** 1 story, preengineered Metal Building, 7000 sq ft + 1200 sq ft Canopy

**Add Covered Storage\*** McChord AFB, Ft. Lewis, WA **Size/ Cost:** 924 sq meter (10,000 sq feet), 1 story, preengineered Metal Canopy on Concrete Pedestals up to 7' in height

**Gymnasium for Naval Post-Graduate School\*** Naval Post-Graduate School, Monterey, CA **Size/ Cost:** \$4.5 Million, 1 story, 1875 sq meter (20200 sq ft.) Design-Build w/ Howard S. Wright ,Sacramento,CA

**Convert Commercial Gate\*** Malmstrom AFB,Great Falls,MT **Size/ Cost:** 1 story, CMU Guard Bldg 31 sq meter (335 sq ft)and 380 Sq Meter (4100 sq ft) Canopy over Gate

**Helicopter Operations Facility\*** Malmstrom AFB,Great Falls,MT **Size/ Cost:** 2 story, 10000 Sq. Ft. Structural Design and Detailing, Metric :Taken to 35% for RFP, then put out for Design-Build

**Child Development Center\*** Malmstrom AFB,Great Falls,MT **Size/ Cost:** \$8.7 Million, 1 story, 1774 Sq Meter (19100 Sq. Ft.)

**Family Housing : Phases 6A, 3, and IV\*** Malmstrom AFB,Great Falls,MT **Size/ Cost:** \$22 Million +/-, 2 story, 2,3,& 4 bedroom duplexes

**Howard Hansen Dam\*** Enumclaw, WA **Work Performed:** Assist USACE Seattle w/ Misc stop logs and flood gates,provide detail sketches

**Battalion-FY02 Whole Barracks Renewal\*** Ft. Lewis, WA **Size/ Cost:**\$4 Million, 2 story, 1308 Sq. Meters (14100 Sq. Ft)

**C-17 Maintenance Training Facility Addition\*** McChord AFB,Ft. Lewis, WA **Size/ Cost:** 1 story, Small Additions to previously designed facility

**FY04 Whole Barracks Renewal\*** Ft. Lewis, WA

- Barracks- Size/Cost: 3 story, 10200 SM (110000 SF) Designed to meet USACE requirements for AT/FP and Progressive Collapse. Won 2007 SAME Design Excellence Award
- Battalion- Size/Cost 2 Story, XXX Sq. Ft.

Overall Construction cost \$44.5 Million. Design-Build:Absher Construction

**Barracks-FY05 Whole Barracks Renewal\*** Ft. Lewis, WA **Size/ Cost:** \$17 Million, 3 story, xxx Sq. Ft Design-Build: Absher Construction

**Resistance Training Facility\*** Fairchild,AFB **Work Performed:** Structural Design and Detailing for RFP document and pricing

**FY06 Whole Barracks Renewal [Barracks/Battalions/Company Operations]\*** Fort Lewis, WA **Work Performed:** Structural Design and Detailing for Design-Build Bid document and pricing submission Design-Build: Absher Construction Note: The Design Build team was successful in winning this project

**Ft. Lewis Chapel\*** Ft. Lewis, WA Struct System:Preengineered Metal Building Work Performed: Structural Design and Detailing for Design-Build Bid document and pricing submission. Design-Build: Berschauer Phillips Construction. Note: The Design Build team was successful in winning this project, instrumental in this was SCBC Principal suggestion to go with a pre-engineered metal building to get project within budget.

## Other Government

**California State Prisons Wasco/Delano`** Location: Wasco, CA and Delano, CA **Size/ Cost:** \$92 Million.

- Bid Package 5: 10 bldgs- Pre-engineered Steel construction
- Bid Package 8: 5 bldgs- Lumber/CMU construction
- Bid Package 3: 12 bldgs- Concrete/Precast Concrete/Steel construction
- Bid Package 9: 5 bldgs- Lumber/Tilt-up Concrete construction

**Maricopa County Southeast Juvenile Facility-Admin Bldg`**Location: 1840 S. Mesa Dr , Mesa, AZ - 2  
Story + freestanding pylon

**Yavapai County Juvenile Courts Facility-Renovation/Additions`**Location: **500 S. Marina St ,  
Prescott, AZ**

**Marin County Correctional Facility`**Location: Frank Lloyd Wright's Marin County Civic Center Complex  
Size/Cost: 84000 sq ft \$35 Million

**Estrella Community College- Centerpiece Building`**Location: **Avondale, AZ** **Size/Cost: 2-story**

**Arizona Dept of Transportation-Major Utility Relocation`**Location: South of Phoenix Intl Airport- 16  
underground vaults and junction structures with varying surcharge and hydrostatic water levels.

**Arizona State University- Sun Devil Stadium`** Work Performed: Annual Special Structural Inspection and  
Report.

**City of Mesa- Southeast Water Reclamation Plant`**

- Sulfide Control Station: Pump House and Containment Basin.
- Recker Transfer Station:Screen walls, Slab, underground meter vault

**City Of Edmonds : Structural Plan Review\* Worked Performed:** ( Residential/Commercial)Structural plan  
review of approximately 40+, mainly residential plans submitted to the city each year for permit. (This included training city  
personnel in structural plan review, which gradually assumed more and more of the city struct plan reviews.)

**USPS Tacoma Downtown Station Seismic Evaluation\*`**Location: "A" street between 11th and 12th St.  
, Tacoma, WA

**Washington State Patrol Addition/ Renovation\*`**Location: Bellevue, WA

**City of Edmonds- Public Works\*`**Work Performed: Foundation design for pre-engineered metal building.

**City of Seattle - Structural Plan Review\*`**Work Performed: Commercial, Institutional and Residential  
Structural Plan reviews

**City of Edmonds - Public Works\*`**Work Performed: Mezzanine change of use load Study

**City of Edmonds - Public Works\*`**Work Performed: Structural Design and detailing for pre-engineered metal  
building, interfacing with existing concrete walls and foundations for Vactor Corral

**City of Edmonds - "On Call Civil/Structural"\*`**Work Performed:

- Frances Anderson Center Seismic Screening
- City Hall furniture hoist
- Frances Anderson Center emergency inspection
- Add crane at Fleet Maintenance building
- Add Stair on grade support wall @ Frances Anderson Center
- Detention Vault review and connection to 48" dia. City pipe
- Cracking assessment at Edmonds Library
- Sawcut openings at CMU wall, Frances Anderson Center
- Culvert Plug form
- Emergency restoration residence undermined by city broken water main
- Senior Center elevator replacement
- Amphitheater wall condition assessment
- Marina Beach emergency repair
- Benefit Cost Analysis for FEMA grant Application- Frances Anderson Center
- Meyer Retaining wall review
- Khami Retaining wall review

City of Edmonds - Structural Plan Review Work Performed: Commercial, and Complex Residential  
Structural Plan reviews

\* Performed while employed at previous firm WJA/Tetratech

` Performed while employed at previous firm DMJM

^ Performed while employed at previous firm Coffman Engineers Inc

~ Performed while employed at previous firm Banner Associates Inc