

1983-2021: SL Engineering Projects					
Year	PROJECT NAME	LOCATION	CONSTRUCTION VALUE \$(000)	DESCRIPTION	CODE
2021	2nd Story Addition - David Wil	Snohomish	250	Construct a custom vaulted living space over a 3-car garage	S,B
2021	2nd Story Addition - Sandy C	Des Moines, WA	250	Construct architectural offices over garage and shop	S,B
2021	2nd story addition - Long K	Burien, WA	150	Construct upstairs living space over a home	S,B
2021	Wall Removal - Brian H	King Co	15	Replace bearing wall with beam	S
2021	Wall Removal - Mike P	Burien, WA	15	Replace bearing wall with system of beams for kitchen remodel	S
2021	Restaurant Canopy	Normandy Park, WA	40	Cover for exterior eating area for restaurant	S
2021	Retaining wall reinforcement	Seattle, WA	50	Madrona area Retaining wall reinforcement and bathroom remodel	S
2021	Belize Resort Review	Belize, CA	750	Design review and recommendation to 3 structures as part of a developers resort plans	S,B
2021	New Deck	Federal Way, WA	25	Design of Deck off of 2-story home	S
2021	Major Remodel and wall removal - 1908 Home	Des Moines, WA	350	Removal of several walls and fireplace. Structural modification to main floor and lower areas.	S,B
2021	Major Remodel and Garage/ADU - Shepel	Bellevue, WA	500	2-story ADU and remodel of great room into vaulted space	S,B
2020	Developer home remodel - Alan.S	Mountlake Terrace, WA	150	Design of new beams and custom supports	S
2020	Developer home remodel - Alan.S	Seatac, WA	150	Design of new roofing and beam system	S
2020	Carport Roofs - Highline Food Bank	Burien, WA	40	Donation work	S
2020	Garage Truss Modification - Brend.O	West Seattle, WA	25	Modification of garage trusses into vaulted space	S
2020	Addition - D.Dev	Bellevue, WA	250	Addition to split entry home	S,B
2020	Wall Removal - Jas.Pz	West Seattle, WA	25	Lateral modification due to wall removal	S
2020	Medina Site Improvements	Median, WA	50	Civil engineering drainage plans	C
2020	Construct ADU - Lisa.H	Tukwila, WA	150	Vaulted spaces ADU	S
2019	Basement Renovation	Seattle, WA	500	Reconfiguration of wall beams and posts in an old home	S

2019	Renovate Deck	Des Moines, WA	20	Part of a major home remodel	S
2019	Renovate rotten rafters over hot tub	Des Moines, WA	20		S
2019	Garage and Site improvements	Burien, WA	70	Garage lift on new foundation	S
2019	Garage Expansion - Schn	Burien, WA	175	Constructed living space	S
2019	Wall Removal	Normandy Park, WA	100	Kitchen Remodel - Scissor truss evaluation	S
2019	Wall removal - Steve.Julie	Burien, WA	200	Major Remodel	S,B
2019	Wall Removal - Kimmel	King Co	15	Kitchen Remodel	S
2019	Fallen tree - damage to trusses - Mike K	Kent, WA	25	Insurance case - design repairs to trusses	S
2019	Structural Renovation - G.Grad	King Co	150	Updating client's rental home in poor condition	S
2019	Structural Modifications - DCon	Burien, WA	100	Executive home downstairs remodel	S
2018	Wall Removal and Major Remodel	Burien, WA	150	This project included a major retrofit to the foundation and building centerline	S
2018	Addition and Remodel - BillW	Burien, WA	150	Design of an additional photography studio, family room and bathroom. SL Engineering provided the architectural, civil and structural design	S,B
2018	Multiple wall removal to 1980s home - Ram	Seattle, WA	150	This remodel significantly open up the kitchen spaces. SL Engineering with with the building designer.	S
2018	Wall removal to contemporary executive home - YL	Mercer Island, WA	75	Hidden post and beam construction created unique challenges to this wall removal	S
2018	Multiple wall removal to 1913 home in Ballard - Mike E	Ballard, WA	75	This beautiful craftsman style early 20th century home was improved for functionality.	S
2018	Structural Corrections to failing garage - Lake Burien	Burien, WA	25	The entire building had tilted because of inadequate lateral support. SL Engineering design custom timber frames to shore-up the lateral support system and straighten the building.	S
2018	Wall removal and addition.	Lake Forrest Park, WA	100	A unique tapered LVL design allowed for the rear gable to be replaced with a beam, and then an addition constructed in the back.	S,B
2018	Wall Removal of 1916 home in Ballard - Sherm	Ballard, WA	75	This kitchen remodel required new beam, posts and crawl space foundations to allow the owner to open up his dining room and kitchen.	S

2018	Wall removal and Major Remodel of executive home - KR	West Seattle, WA	650	Removal of a fireplace and several walls and replacement with a posts and beams allowed the new owners to create a great room from a small dining room. Unique challenges included redoing shear walls.	S,B
2018	Major Remodel of 1913 Green Lake home - Dressl	Seattle, WA	400	The home is currently under remodel. All new structural systems and roof trusses are included. New retaining walls are part of the project.	S,B
2018	Major Remodel and Retaining Wall - Bef	West Seattle, WA	300	This 3-story 1960s era home has custom decks, a retrofitted retaining walls, new central post and beam support system.	S,B
2017	Commercial Building Rotfit	Lakewood, WA	200	2 Commercial buildings were retrofitted to replace trusses with vaulted ceilings. SL Engineering performed vertical and lateral design for retrofit.	S,B
2017	Multiple wall removal and major remodel	Queen Ann, Seattle, WA	250	Beautiful 2-story view home with several wall removed on both floors.	S
2017	2-Story Lakefront addition	Maple Valley, WA	200	Floating slab used as a solution to support 2-story addition in area with high water table.	S,B
2017	Multiple Wall Removal	Seattle, WA	100	1921 Building including difficult tracing of load paths including 2nd floor offset	S
2017	Remodel/Window removal in shear wall - D.Dev	Bellevue, WA	50	Shear wall analysis and retrofit. Design of concrete entry way.	S
2017	Wall Removal	Burien, WA	50	Residential wall removal and kitchen remodel	S
2017	Beffa Dental Addition	Burien, WA	75	Exterior addition to a beautiful dental buiding. Services included structural and architecural design	S,B
2016	Wall Removal and Major Remodel - Rogl	West Seattle, WA	100	Remodel included shear wall plan and seismic retrofit	S
2015	Terrace St Retrofit	Leshi, Seattle, WA	200	Reinforce failing floor beams and provide seismic upgrades to a beautiful residence constructed in 1910. Services included providing structural analysis, reports, design and inspections.	S,B
2015	902 Residential Remodel	Queen Ann, Seattle, WA	250	Design of a 3rd story onto a two-story 1930's era residence, including reinforcing existing structure. Services included structural analysis and design.	S,B
2015	10-Plex Structural Evaluation	Normandy Park, WA	NA	Project included replacing a bearing wall with a beam. Services were to evaluated the structure to determine the 10-plex or the unit were sturcturally compromised, and provide report.	S,B
2015	Elhard St New Residential	Camano Island, WA	350	Construct a new single story residential home. Services included lateral structural analysis and design.	S,B

2014	Cascade View New Residential	Camano Island, WA	350	Construct a new single story residential home. Services included lateral structural analysis and design.	S,B
2014	Dessert Residential Addition	Stanwood, WA	250	Construct a single story residential addition. Services included lateral structural analysis and design.	S,B
2013	Hoag Residential Addition	Mt. Vernon, WA	150	Construct a residential wing onto an existing deck. Services included vertical structural analysis and recommendations.	S,B
2013	Kline Residential Addition	Camano Island, WA	250	Construct a single story residential addition. Services included vertical and lateral structural analysis and design.	S,B
2015	Olson Residential Addition	Camano Island, WA	350	Remodel a single two story residential home. Services included lateral structural analysis and design.	S,B
2014	Titan 1420 New Residential	Camano Island, WA	300	Construct a new single story residential home. Services included lateral structural analysis and design.	S,B
2014	St. Moritz New Residential	Camano Island, WA	350	Construct a new single story residential home. Services included lateral structural analysis and design.	S,B
2013	Smith Reroof/Remodel	Camano Island, WA	75	Add a new flat roof structure onto an existing flat roof. Services included vertical design analysis and design of connections.	S,B
2015	Shapiro Residence Evaluation	Arlington, WA	75	Upgrade load capacity of residence to commercial storage level. Services included structural analysis and report.	S,B
1985	Colorvue TV	Juneau, AK	250	Construct a single story 3800 SF commercial building. Provided vertical and lateral structural analysis and permit drawings.	S,B
1983	Commerical Building and Storage	Juneau, AK	250	Construct a two-story 6400 SF commercial building. Provided permit drawings.	S,B
1985	Whitfield Addition	Juneau, AK	100	Construct a two-story 2400 SF residential addition. Provided structural design and permit drawings.	S,B
1986	Thane Retaining Wall	Juneau, AK	25	Construct a retaining wall on a steep slope to protect a waterfront residence. Provided calculations and drawings	C,S
	subtotal		\$ 11,360		
1985-2002: US Coast Guard Projects					
	PROJECT NAME	LOCATION	CONSTRUCTION VALUE \$(000)	DESCRIPTION	

2000	USCG Wharf Upgrade For WLB MAPLE	Sitka, AK	2000	Construct a series of pile dolphin structures to accommodate a new 230' buoy tender. Duties included planning, structural analysis and project engineering.	W, PE, S
2001	Port Angeles Hangar Renovation	Port Angeles, WA	3200	Construct a 9000 SF 2-story hangar addition, and perform seismic upgrades to a 1936 era 3-bay brick hangar at the Coast Guard Airstation, maintaining operation. Duties included project engineering and construction sequencing plans.	B, PE
2001	Astoria Clinic Renovation	Astoria, OR	850	Provided structural design for a pile-supported addition onto an existing clinic. Duties included structural analysis and design	B,S
1990 & 2000	Kodiak Cargo Wharf Renovation	Kodiak, AK	5000	Renovation of large concrete wharf. Replace corroded H-pile with new splices in splash zone. Improvements included seismic upgrade. Duties included planning and project engineering.	PE,W
1988 & 2000	Kodiak Fuel Pier Renovation	Kodiak, AK	5000	Construct a large dolphin pile and a series of braced frames to replace a weakening fuel pier structure. Project included anchoring highly loaded piles into rock by post-tensioning. Duties included planning and project engineering.	PE, W
2000	Tongue Point Pier Mods	Astoria, OR	1000	Construct a series of pile dolphin structures to accommodate a larger vessel. Duties included planning and project engineering.	W,P
1999	Cape Disappointment Covered Moorings	Illwaco, WA	2000	Constructed new covered moorings using 24" pipe-pile moment frames. Duties included structural analysis and design.	W, PE,S
2000	Neah Bay Marine Railway	Neah Bay, WA	3000	Replace 600-ft wooden board haulout with new concrete structure. Duties included drafting design - build documents and design review.	W,PE
1992	Ketchikan Marine Railway	Ketchikan, AK	750	Expand covered marine railway to accommodate a new 123-ft patrol boat. Duties included project engineering.	W, PE
1998	Kodiak Guest House Remodel	Kodiak, AK	2000	Complete remodel of a 1940s era 3-story 100-unit complex. Duties included structural analysis and design for seismic upgrades, and design for rerouting steam utility away from building.	S,B
1999	Kodiak Enlisted Dining Facility Remodel	Kodiak, AK	1000	Remodel dining hall and provide seismic upgrades to 18,400 SF 1940s era 2-story building. Duties included structural analysis and design.	S,B
2000	USCG Building 1 Biennial Inspection	Seattle, WA	NA	Structural inspection of a 40,000 SF 4-story 1930s era office building. Duties included structural inspection and evaluation.	B, S

2000	USCG Building 3 Biennial Inspection	Seattle, WA	NA	Structural inspection of a 150,000 SF 1930s era building with with shops, offices and gymnasium. Duties included structural inspection and structural evaluation.	B, S
1987-1995	Government Housing	Kodiak, AK	42000	Construct several phases of new housing construction at US Coast Guard Base Kodiak at Lake Louise, Government Hill and Aviation Hill. Duties included structural design, utilites design, and periodic inspections .	B,C,S
2001	USCG Building 5 Renovation	Seattle, WA	500	Remodel US Coast Guard museum and reception hall, approximately 15,000 SF 1930s era building at the Seattle Base. Duties included structural analysis and design.	B,S
1997-1998	USCG Station Juneau Tilt-up Addition	Juneau, AK	2000	Construct a 2-story concrete tilt-up addition at the Coast Guard Station building in downtown Juneau. Duties included civil and structural analysis and design.	B,W,S
1994-1995	USCG Air Station Sitka ATON Support Building	Sitka, AK	2500	Construct a new 12,000 SF Pre-engineered custom building with warehouse, shops and offices at the Coast Guard Air Station in Sitka. Duties included planning, structural analysis, foundation design, lift station design and project engineering.	B,PE,S
1991-1992	USCG Cape May New Transient Barracks	Cape May, NJ	4000	Construct a new 3-story 40,000 SF barracks at the Coast Guard training center in Cape May. Duties included civil engineering and design.	B,C
1994	USCG Cape May Remodel Recruit Barracks	Cape May, NJ	4000	Remodel (3) 1960s era barracks buildings at the Coast Guard training center in Cape May. Duties included civil and structural design and project engineering.	B,C
1997	USCG Honolulu WPB Moorings	Honolulu, HI	2000	Construct a concrete wharf as a new home port to a 230-fl bouy tender. Duties included civil engineering and design.	W,C
1992	USCG Honolulu Waterline	Honolulu, HI	850	Replace existing cast iron watermain throughout the Coast Guard base with a 12" PVC main. Duties included project engineering and geotechnical evaluation.	C, PE
1995	USCG Kodiak Water Tank	Kodiak, AK	850	Construct a new 675,000 gallon porcelain-coated bolted steel water tank. Duties included planning, sizing and project engineering.	C, PE
1995	USCG Port Angeles Wave Abatement and Emergency Pier Repairs	Port Angeles, WA	1200	Construct a concrete wave barrier and reinforce existing wharf to accommodate a larger vessel. Duties included project engineering.	W, PE

1991	USCG Saint Ignace Housing	Saint Ignace, MI	1200	Construct a multi-unit housing subdivision with masonry foundations on Coast Guard property in Saint Ignace, MI. Duties included structural analysis and design.	B, S
1987	USCG Air Station Sitka Hangar Reroof	Sitka, AK	200	Replace existing built-up roof on the Airstation hangar with a hypolon roof, mechanically fastened system. Duties included uplift analysis and project engineering.	R, PE
1986	USCG Air Station Kodiak Hangar 2 Reroof	Kodiak, AK	1400	Remove clerestory and replace existing built-up roof with standing seam metal roof. Duties included uplift analysis and project engineering.	R, PE
1986-1987	USCG Loran Station Narrow Cape Emergency Reroof	Kodiak, AK	100	Repair IRMA roof membrane and blown off balast, add balast, plywood and tension straps to building roof. Duties included project engineering, uplift analysis and structural analysis of building trusses.	R, PE
	subtotal		\$ 62,800		
2002-2015: FAA Projects					
	PROJECT NAME	LOCATION	CONSTRUCTION VALUE \$(000)	DESCRIPTION	
2003-2004	Relocate Terminal Airport Radar at Seatac	Seattle, WA	6000	Construct 176-ft Terminal Radar Structure and Radio Site west of airport to make room for new radar. Duties included project engineering and secondary design work including an integrated communication building.	PE
2004-2005	Establish Surface Radar at Seatac (ASDE-X)	Seattle, WA	4000	Construct 8 multi-lateration beacon interrogator sites around Seatac, and establish a primary radar site on the roof of the new ATCT. Duties included project engineering and design of electronics room and antenna mount at penthouse of ATCT.	P,PE
2006	Establish Airport Beacon Radar	Bozeman, MT	1000	Construct new 87-ft radar tower and equipment building at BZN. Duties included construction project management.	PE
2006	Establish Airport Beacon Radar	Eagle, CO	1000	Construct new 47-ft radar tower and equipment building at EGE. Duties included construction project management.	PE
2006-2007	Establish Airport Beacon Radar	Redmond, OR	1000	Construct new 47-ft radar tower and equipment building at RDM. Duties included construction project management.	PE
2007-2008	Establish Airport Beacon Radar	Jackson Hole WY	1000	Construct new 67-ft radar tower and equipment building at JAC. Duties included construction project management, and supervisory engineering.	PE,SV

2008-2009	Establish Surface Radar at SLC (ASDE-3X)	Salt Lake City, UT	4000	Construct 12 multi-lateration beacon interrogator sites around SLC. Duties included supervisory engineering.	SV
2008-2009	Establish Surface Radar at DIA (ASDE-3X)	Denver, CO	15000	Construct 25 multi-lateration beacon interrogator sites around DEN. Duties included supervisory engineering.	SV
2009-2010	Establish Long-Range Beacon Radar	Yakutat, AK	4000	Construct 147-FT radar tower and equipment building at Yakutat, AK. Duties included planning and supervisory engineering.	P,SV
2010	Establish Additional TRACON Positions	Denver, CO	5000	Remodel TRACON OPS room, add 3 additional controller positions and recable electronics. Duties included supervisory engineering.	SV
2012	Establish Additional Tower Positions	Juneau, AK	200	Remodel ATCT cab, added control position, electronics and associated cabling. Duties included supervisory engineering.	SV
2011	Establish Additional Tower Positions	Hillsborough, OR	200	Remodeled ATCT cab and added additional control positions and associated electronics and cabling. Duties included supervisory engineering.	SV
2013	Integrated Risk Management Common Work Instruction	Western Service Area	NA	Co-authored a common work instruction which integrates operational risks and safety risk when doing projects in the National Airspace System	PM
2013-2014	Develop Implementation Fundamentals Manual and Training Program	Western Service Area	100	Developed a manual of standard operating procedures, roles and responsibilities, and organizational and engineering information. Trained 655 people in 30 workshops throughout FAA facilities in the Western Service Area	PM
2014-2015	Develop Impelementation Process MAP on MS Sharepoint	Western Service Area	NA	Developed a process map with linking documents, standards and engineering design information for all of FAA facility engineering processes	PM
2015	Develop Engineering Services Metrics	Western Service Area	NA	Developed performance metics for FAA Engineering Services in Western Service Area.	PM
2018-2020	VOR replacement	Galena, AK	4000	Design currently in progress. Construct steel braced frame in permafrost to support FAA navigation facility	PE,S
2019	Kiana Nav PAPI/REIL Replacement	Kiana, AK	50	FAA part of AIP improvement by ADOT	PE
2019	Togiak Change VASI to PAPI	Togiak, AK	500	FAA program project	PE
2020	Toksook Bay PAPI/REIL Replacement	Toksook, AK	500	FAA part of AIP improvements by ADOT	PE
2021	McGrath VOR Site Survey	McGrath, AK	NA	For for replacement of TACAN	PE
	subtotal		\$ 47,550		
	TOTAL		\$ 121,710		

	S = Structural Engineering				
	C = Civil Engineering				
	PE = Project Engineering				
	B = Building Project				
	W = Waterfront Project				
	SV = Supervisory				
	P = Planning/Planner				
	R = Roofing Project				
	EL = Electronics				
	PM = Program Manager				