

# Perego Construction Services

## Past Project Reference List

Location Project	Company	Method	Short Description	Shafts				Tunnels					Specials	Structures	
				DBM	SG	RD	BD	DBM	Shield	Jack	MTBM	RH			TBM
<b>I Alaska</b>															
	Tye Lake Hydroelectric Project	HW	DBM	Lake tap, gate shaft, upper power tunnel, power shaft, lower power tunnel, portal, and powerhouse built as a camp project	X				X				X		X
	Terror Lake Power Shaft	FKC	RD	Raise drilled power shaft w/ an intermediate level			X							X	
<b>II Alabama</b>															
	Jim Walter Resources Mine Shaft	FKC	RD	Concrete lined access/ventilation shaft for a coal mine			X								
	Drummond Mine Shafts (2 Projects)	FKC	RD	Concrete lined access/ventilation shaft for a coal mine			X								
<b>III Arizona</b>															
	San Manuel Mine Development	FKC	TBM	Figure-8 TBM tunnel at depth in a working base metal mine					X				X	X	
	Raise Drilling - Superior Mine	FKC	RD	Raise drilled shafts inside a base metal mine			X								
	Saguaro Ranch Tunnel	AI	DBM	Road tunnel accessing a private housing development					X						
<b>IV California</b>															
	Sandbar Hydroelectric Project	HWC	TBM	Complete hydroelectric project near Strawberry, California					X				X		X
	Calaveras Hydroelectric Project	HWC-JV	TBM/DBM	Complete hydroelectric project above New Melones Reservoir w/ two diversion tunnels, one power tunnel, one powerhouse, two dams and various ancillary structures and site work	X				X					X	X
	Hollywood/Universal Studio Subway Tunnel	FKC-JV	TBM	Dual subway tunnels under the Hollywood Hills between Hollywood Boulevard and Universal Studio					X				X		X
	Pico Boulevard Sewer	AI	SL	Slip lining a small interceptor sewer										X	
	Irvine Ranch Sewers	AI	MT	Micro tunneled sewers for a residential development			X				X				X
	Stone Canyon Bypass Tunnel	AI	RH	By-pass tunnel for a water project in the Hollywood Hills									X		
	BNSF Drainage Tunnel	AI	SL	Pair of drainage tunnels under live railroad tracks			X							X	X
	Redwood Trunk Sewer	AI	MT	Two main trunk sewers constructed through micro tunneling			X				X			X	X
	Joint Outfall Tunnels (2 Contracts)	AI	SGTBM	Tunnel sections constructed through pipe jacking, open shields, or soft ground TBM's for the Joint Outfall Sewer					X	X	X		X		

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				DBM	SG	RD	BD	DBM	Shield	Jack	MTBM	RH		
North/South Sacramento River Crossings	AI	EPBTBM	Two EPB-TBM tunnels constructed under the Sacramento River and completed w/ dual steel pipes for a sewer interceptor		X							X	X	X
Bradshaw 8 Tunnel	AI	SGTBM	Soft ground TBM tunnel finished w/ RCP and 11 structures for an interceptor sewer		X							X		X
Semitropic Tunnel	AI	SGTBM	Soft ground TBM tunnel for an Interstate road crossing lined w/ RCP for a pipeline		X							X		
BKK Landfill Tunnel	AI	SL	Slip lining a drainage tunnel under a landfill										X	
Stanford Linear Accelerator Extension	AI	RH	Four tunnels constructed through SEM methods to extend the shell of the Stanford Linear Accelerator to the east									X	X	
Buena Vista Force Main	AI	MT	Micro tunneled sewer force main		X					X			X	X
Bernal Heights Tunnel	AI	SBU	Mixed face tunnel constructed with an SBU and completed w/ mortar lined steel pipe									X	X	
<b><u>V Colorado</u></b>														
Oil Shale Ventilation Shafts	TEDCO	RD	Steel lined off-gas and ventilation shafts for an oil-shale project			X								
Paonia Mine Shaft	FKC	DBM	Concrete lined access/ventilation shaft for a coal mine	X										
New Castle Mine Slope	FKC	DBM	Over/under steel and shotcrete lined access/ventilation/ haulage slope for a coal mine					X						
AMAX Mine Shaft	HW	DBM	Concrete lined access/ventilation shaft for a base metals mine	X										
Hanging Lake Tunnels	FKC-JV	DBM	Four highway tunnels, a ventilation structure, and two portals for a four lane interstate highway					X					X	X
T-REX Drainage Tunnel	AI	EPBTBM	Soft ground segment lined drainage tunnel for the T-REX project		X							X	X	X
<b><u>VI Hawaii</u></b>														
H-3 Tunnels - Haiku Portal	FKC-JV	DBM	Two highway tunnels, two ventilation structures, and two portals for a four lane interstate highway					X					X	X
<b><u>VII Illinois</u></b>														
Rend Lake Mine Shafts (4 Shafts - 2 Contracts)	FKC	RD	Two sets of concrete lined access/ventilation shaft combinations for a coal mine			X								
Galena Mine Shafts (2 Shafts)	FKC	DBM	One set of concrete lined access/ventilation shaft combinations for a coal mine	X										
NUMI - Fermi Tunnel	SAH	TBM	One surface structure, one mixed face tunnel, one TBM bored tunnel, three chambers, three shafts, various ancillary structures, and site work for an experimental accelerator at the Fermi National Lab	X				X				X	X	X
73rd Street Tunnel	AI	TBM	Concrete lined by-pass tunnel for the MWRD TARP deep tunnel system	X				X				X	X	X

Location Project	Company	Method	Short Description	Shafts				Tunnels					Specials	Structures
				DBM	SG	RD	BD	DBM	Shield	Jack	MTBM	RH		
			Three concrete lined collector tunnels, three shafts, eight drop structures w./ surface works, six connecting tunnels, and a main tunnel connection for the MWRD TARP deep tunnel system	X				X				X	X	X
Little Calumet Tunnel	AI-JV	TBM/DBM												
RAG Mine Collar Construction	AI	N/A	Caisson collar for a concrete lined coal mine shaft		X								X	
<b><u>VIII Indiana</u></b>														
Wheatland Mine Slope & Two Mine Shafts	FKC	DBM	One over/under steel and shotcrete lined access/ventilation/haulage slope and two concrete lined shafts for a coal mine built in near quick sand like surface conditions	X	X			X						
Diamond Avenue Drainage Tunnel	AI	SGTBM	Soft ground RCP lined drainage tunnel with one access structure		X			X			X			X
<b><u>IX Kentucky</u></b>														
Dravo Ventilation Shaft	FKC	RD	Raise drilled and concrete lined ventilation shaft for a limestone mine				X							
Webster County Mine Shaft	FKC	DBM	Concrete lined access/ventilation shaft for a coal mine	X										
MAPCO Mine Shafts (2 Contracts)	FKC	RD	Two separate concrete lined access/ventilation shafts for coal mines	X										
Baker Mine Slope	FKC	RH	Over/Under steel and shotcrete lined access/ventilation/ haulage slope for a coal mine					X		X				
Peabody Mine Slope	GN	DBM	Over/Under steel and shotcrete lined access/ventilation/ haulage slope for a coal mine					X						
Warrior Mine Slope	GN	DBM	Over/Under steel and shotcrete lined access/ventilation/ haulage slope for a coal mine					X						
Warrior Mine Shaft	GN	DBM	Concrete lined access/ventilation shaft for a coal mine	X										
Peabody Mine Shaft Collar	AI	N/A	Caisson collar for a concrete lined coal mine shaft		X								X	
Holmes Street Drainage Tunnel	AI	TBM	TBM bored drainage tunnel with one open cut section and a headwall/flap gate draining into a local river					X			X	X	X	X
<b><u>X Michigan</u></b>														
St Clair River Tunnel	FKC-JV	EPBTBM	EPB-TBM bored, segment lined, double-stack railroad tunnel under the St. Clair River		X						X	X	X	
8-Mile Sewer	FKC-JV	SGTBM	Soft ground RCP lined sewer w/ two access structures		X			X			X			
White Pine Mine Shaft	FKC	RD	Concrete lined access/ventilation shaft for a coal mine				X							
<b><u>XI Minnesota</u></b>														
Silver Creek Cliff Tunnel	FKC-JV	DBM	Two lane highway tunnel w/ two portal structures and one ventilation structure					X				X		

**XII Missouri**

Location Project	Company	Method	Short Description	Shafts				Tunnels					Specials	Structures
				DBM	SG	RD	BD	DBM	Shield	Jack	MTBM	RH		
Ozark Lead Company Mine Shaft	TEDCO	BD	Steel lined access/ventilation shaft for a base metals mine				X							
St. Joe Lead Mine Shafts (6 Contracts)	TEDCO	RD	Steel lined ventilation shafts for several base metal mines			X								
Doe Run Mine Shafts (6 Contracts)	FKC	RD	Steel lined ventilation shafts for several base metal mines			X								
Hunt Midwest (Mine Design)	GN	N/A	Mine design for a complete underground limestone mine									X		
Lindbergh Tunnel	AI	DBM	Hand mined steel lined drainage tunnel for Lambert International Airport					X						
Fee Fee Road Sewer	AI	SGTBM	Soft ground RCP lined sewer w/ two access structures											
Arnold Sewer Tunnel	AI	MT	Soft ground RCP lined interceptor sewer w/ six access structures	X					X			X	X	
<b>XIII Mississippi</b>														
ASRM Casting Shafts	FKC	DBM	Six soft ground shallow shafts with a massive concrete blast wall built to construct the solid rocket boosters for the space shuttles	X								X		
<b>XIV Montana</b>														
Stillwater Shaft	FKC	DBM	Concrete lined access/ventilation shaft for a base metals mine	X										
<b>XV New Mexico</b>														
Crownpoint Mine Shaft	HWC	DBM	Concrete lined access/ventilation shaft for a uranium mine	X										
Ambrosia Lake Shafts (12 Shafts - 6 Contracts)	TEDCO	RD	Steel lined ventilation/off-gas/ore pass/manway shafts for several uranium mines			X								
United Nuclear Shafts (2 Shafts)	TEDCO	RD	Concrete lined access/ventilation shaft for a uranium mine			X								
WIPP Deep Shaft	FKC	RD	Concrete lined ventilation shaft for a depleted uranium storage facility			X						X		
<b>XVI New York</b>														
Seneca Norton Sewer Tunnel	FKC	TBM	Soft ground TBM tunnel finished w/ CIPC and three structures for an interceptor sewer	X				X			X	X	X	
Raise Drill - Rochester	FKC	RD	Steel lined ventilation shaft for a heavy civil tunnel project			X								
Manhattan Water Tunnel No. 3 Shaft	FKC	DBM	Concrete lined access/ventilation/pump station shaft for Water Tunnel No. 3	X								X	X	
<b>XVII Ohio</b>														
Toledo CSO Tunnel	FKC	SGTBM	Soft ground TBM tunnel finished w/ CIPC and three structures for an interceptor sewer	X							X		X	
AEP Mine Shaft	FKC	RD	Concrete lined access/ventilation shaft for a coal mine			X								

Location Project	Company	Method	Short Description	Shafts				Tunnels					Specials	Structures
				DBM	SG	RD	BD	DBM	Shield	Jack	MTBM	RH		
Miamitown Sewer	AI	MT	Soft ground RCP lined sewer w/ four access structures constructed through micro tunneling		X						X		X	X
<b><u>XVIII Pennsylvania</u></b>														
Bailey Mine Shaft	FKC	RD	Concrete lined access/ventilation shaft for a coal mine				X							
Johnstown Rail Tunnel Enlargement	FKC	DBM	Invert removal w/ a road miner in an existing railroad tunnel to allow double-stacking cars										X	
Indiana Shafts (2 Contracts)	FKC	RD	Two concrete lined access/ventilation shaft for coal mines				X							
<b><u>XIX Oregon</u></b>														
Westside Light Rail Tunnels	FKC-JV	TBM/DBM	Two TBM bored tunnels, two DBM tunnels, two portals, a mid-tunnel surface access shaft, and ancillary surface works	X				X					X	X
Westside CSO Project	SAH-IMP	SLTBM	One slurry TBM bored segment lined tunnel, five access shafts, one pump station, several micro tunnels, and surface connections		X								X	X
<b><u>XX South Carolina</u></b>														
Ashley River Replacement Tunnel	AI	SGTBM	Six soft rock tunnels, seven structures, six caissons, two drilled shafts, and ancillary works for a sewer replacement project		X				X		X	X	X	X
Cooper River Replacement Tunnel	AI	SGTBM	Seven soft rock tunnels, seven structures, six caissons, four drilled shafts, and ancillary works for a sewer replacement project		X				X		X	X	X	X
Daniel Island Tunnel	AI	SGTBM	Two soft rock tunnels, two structures, two caissons, one drilled shaft, and ancillary works for a sewer extension project		X				X				X	X
<b><u>XXI Texas</u></b>														
Houston Storm Sewer	FKC-JV	SGTBM	Soft ground TBM tunnel finished w/ RCP and three structures for an interceptor sewer		X				X				X	X
Superconducting Super Collider (3 Contracts)	FKC-JV	TBM	Soft rock tunnels finished w/ CIPC with access shafts for the SSC	X				X					X	X
DFW Storm Drain	AI	SGTBM	Soft ground TBM tunnel finished w/ RCP and three structures for a drainage tunnel		X				X				X	
<b><u>XXII Utah</u></b>														
Coal Mine Slope	HWC	DBM	Over/Under steel and shotcrete lined access/ventilation/ haulage slope for a coal mine						X					
N.O.S.E Mine Shaft	HWC	DBM	Concrete lined access/ventilation shaft for a base metals mine	X										
<b><u>XXIII Virginia</u></b>														
Buckhannon Mine Shafts (2 Contracts)	FKC	DBM	Two concrete lined access/ventilation shafts for coal mines	X										

Location Project	Company	Method	Short Description	Shafts				Tunnels					Specials	Structures	
				DBM	SG	RD	BD	DBM	Shield	Jack	MTBM	RH			TBM
<b>XIV Washington</b>															
John Day Dam By-Pass Tunnel	FKC	RD	Dam by-pass tunnel constructed w/ a raise drill in a horizontal position through the core of a dam w/ ancillary works											X	X
<b>XV Wisconsin</b>															
Jones Island Siphon	HWC	TBM	Two deep rock tunnels constructed w/ a TBM and lined w/ RCP to act as a siphon between three shafts	X				X				X		X	X
CT-7 Dropshaft and Tunnel	HWC	DBM	Drop shaft, ventilation shaft, and connecting tunnel for a deep tunnel collection system	X				X						X	X
Northshore Interceptor Tunnel and Access Shafts	FKC-JV	TBM	Large and long TBM tunnel partially lined w/ CIPC, two access shafts, and ancillary works	X				X				X		X	X
NS-2 Dropshaft and Tunnel	FKC-JV	RD/DBM	Drop shaft, ventilation shaft, and connecting tunnel for a deep tunnel collection system	X		X		X						X	X
NS-3 Dropshaft and Tunnel	FKC-JV	RD/DBM	Drop shaft, ventilation shaft, and connecting tunnel for a deep tunnel collection system	X		X		X						X	X
NS-4 Dropshaft and Tunnel	FKC-JV	RD/DBM	Drop shaft, ventilation shaft, and connecting tunnel for a deep tunnel collection system	X		X		X						X	X
NS-6 Dropshaft and Tunnel	FKC-JV	RD/DBM	Drop shaft, ventilation shaft, and connecting tunnel for a deep tunnel collection system	X		X		X						X	X
CT-2 Dropshaft and Tunnel	FKC-JV	RD/DBM	Drop shaft, ventilation shaft, and connecting tunnel for a deep tunnel collection system	X		X		X						X	X
CT-3/4 Dropshaft and Tunnel	FKC-JV	RD/DBM	Drop shaft, ventilation shaft, and connecting tunnel for a deep tunnel collection system	X		X		X						X	X
KK Tunnel and Access Shafts	FKC	TBM	Long TBM tunnel partially lined w/ CIPC, two access shafts, and ancillary works	X				X				X		X	X
KK Dropshaft and Tunnel	FKC	RD/DBM	Drop shaft, ventilation shaft, and connecting tunnel for a deep tunnel collection system	X		X		X						X	X
Various Dropshafts - Subcontract	FKC	RD	Open raise drilled shafts for several competing contractors on the Milwaukee deep tunnel system			X									
<b>XVI West Virginia</b>															
Consolidation Coal Company Mine Shaft	TEDCO	BD	Steel lined access/ventilation shaft for a coal mine												X
Shoemaker Mine Shaft	FKC	RD	Over/Under steel and shotcrete lined access/ventilation/ haulage slope for a coal mine			X									
Consolidation Coal Company Mine Slope	FKC	DBM	Over/Under steel and shotcrete lined access/ventilation/ haulage slope for a coal mine					X							
Joetown Mine Shaft	FKC	RD	Concrete lined access/ventilation shaft for a coal mine			X									
Summerville Intake Tunnel	AI	MT	Intake tunnel for a pump station constructed through micro tunneling									X		X	

**XVII Wyoming**

Location Project	Company	Method	Short Description	Shafts				Tunnels						Specials	Structures
				DBM	SG	RD	BD	DBM	Shield	Jack	MTBM	RH	TBM		
United Nuclear Mine Shaft	TEDCO	BD	Steel lined ventilation/access shaft for a uranium mine				X								
Jeffrey City Mine Shafts	TEDCO	RD	Steel lined ventilation/access shafts for a uranium mines			X									
Douglas Mine Shaft	TEDCO	BD	Steel lined ventilation/access shaft for a uranium mine				X								
Trona Mine Shafts (2 Shafts)	FKC	RD	Concrete lined access/ventilation shaft for a trona mine			X									
<b>XVIII Canada</b>															
Sudbury Mine Shaft	FKC	RD	Concrete lined access/ventilation shaft for a base metals mine			X									
<b>XIX Mexico</b>															
Hydroelectric Cable Shaft	FKC	RD	Open cable shaft for a hydroelectric project			X									

Totals 30 28 33 4 35 10 1 8 5 34 48 43

Notations:

AI	Affholder Incorporated
FKC	Frontier-Kemper Corporation
HWC	Harrison Western Corporation
IMP	Impregilo
JV	Joint Venture
SAH	S.A. Healy Company
TEDCO	Teton Exploration Drilling Company
BD	Large Diameter Blind Drilling
DBM	Drill-Blast-Muck
EPBTBM	Earth Pressure Balance Tunnel Boring Machine
MT	Micro Tunneling
RD	Raise Drilling
RH	Roadheader
SBU	Small Boring Unit
SEM	Sequential Excavation Method
SGTBM	Soft Ground Tunnel Boring Machine
SL	Slip Lining
SLTBM	Slurry Tunnel Boring Machine
TBM	Rock Tunnel Boring Machine