

Project : Proposed New Pohnpei State Emergency Operations Center (EOC)/ Fire Station						
Location : Kolonia Town, Pohnpei State, FSM 96941						
Subject : BILL OF QUANTITIES & COST ESTIMATES						
Div. No.	Description		Qty	Unit	Rate	Total Cost (USD)
01	GENERAL REQUIREMENTS					
	1010	Summary of Work	1.00	ls		
	1310	Project Management and Coordination	1.00	ls		
	1330	Submittal Procedures	1.00	ls		
	1450	Quality Control	1.00	ls		
	1500	Temporary Facilities & Controls	1.00	ls		
	1560	Environmental Protection	1.00	ls		
	1567	Maintenace of Traffic	1.00	ls		
	1600	Product Requirements	1.00	ls		
Subtotal (Gen. Requirements)						
02	SITE CONSTRUCTION					
	2050	Demolition and Removal	1.00	ls		
	2102	Site Preparation(Clearing and Grubbing)	1.00	ls		
	2200	Earthwork				
		Excavation	5,581.60	cu.ft		
		Selected Fill and Compaction (Gravel 4" thick)	2,819.83	cu.ft		
		Backfill & Compaction	4,461.01	cu.ft		
Subtotal (Site Construction)						
03	CONCRETE					
	3300	Cast-in-place Concrete	10,579.30	cu.ft		
		Concrete Forms and Accessories	6,595.14	sq. ft.		
		Concrete Reinforcement	37,370.61	kgs.		
Subtotal (Concreting)						
04	MASONRY					
	4200	Masonry Units				
		Blocklaying CHB 6" (Main Bldg.)	9,118.20	sq. ft.		
	9200	Plastering of Walls at 1/2" ave. thickness, 1:3 Mix (Main Bldg.)	18,236.41	sq. ft.		
	9200	Plastering of Columns at 1/2" ave. thickness, 1:3 Mix (Main Bldg.)	3,496.72	sq. ft.		
Subtotal (Masonry)						
05	METALS					
	5010	Miscellaneous Metals				
		Miscellaneous Fasteners and Screws	1.00	lot		
	5520	Steel Handrails,Fireman Pole and Guards				
		3"x2" Steel Bar(Stair Hand Rails)	27.66	ft.		
		3"x1" Steel Bar(Stair Hand Rails Support)	40.00	ft.		
		2"x2" Angle Bar	55.32	ft.		
		6"dia. G.I Post Schedule 40.(Fireman Pole)	30.00	ft.		
	5500	Metal Fabrication				
		Hollow Metal Tubing, ASTM A316				
		HSS 8x4x1/4,	252.00	lf		
		HSS 4x2x1/8, (Parapet)	1,006.50	lf		
		HSS 2x2x1/8, 171 LF	2,598.08	lf		
		Wide Flange Steel Beam, ASTM A316				
		W8X18	5,729.40	kgs.		
		W8X13	6,830.17	kgs.		
		W8X10	1,621.60	kgs.		
		W8X9	11,416.46	kgs.		
		Pre-painted Long Span Roof Ga.24	5,757.50	sf		
		Metals, Flashings, Trims, Gutters, Downspout,Fascia Board Etc.	1.00	lot		
		Structural Connections				
		Base Plates, Anchor Plates, Anchor Bolts and Fasteners	1.00	lot		
		Metal Spandrel(Ceiling Eaves)	335.50	sf		
		Metal Sheet(Parapet)	55.32	sq. ft.		
		Metal Stud	959.11	sq. ft.		
		Stiffeners, Bracings, Tie Rods, Etc.	1.00	lot		
Subtotal (Metals)						

07	THERMAL & MOISTURE PROTECTION					
	7192	Vapor Retarders				
		Vapor Barrier, Polyethylene Sheets	4,857.00	sf		
		Waterproof Coating	747.00	sf		
		10mm Roof Insulation	5,757.15	sf		
	Subtotal (Thermal & Moisture Protection)					
08	DOORS & WINDOWS					
	8100	Hollow Metal Doors and Frames				
		D-1: 3'-4" x 7'-10" Steel Framed Glass Door w/Steel Door Jamb (Main Entrance)	1.00	set		
		D-2: 2'-11" x 7'-10" Steel Framed Glass Door w/Steel Door Jamb (Apparatus Bay Entry)	1.00	set		
		D-3: 3'-4" x 7'-10" Steel Door w/ fixed side vision glass w/ Steel Door Jamb (Firemen's Quarters Door)	1.00	set		
		D-4: 3'-0" x 7'-10" Steel Louvered Door w/ steel kick plate w/ Steel Door Jamb (Storage/Electl Rm)	3.00	set		
		D-8: 3'-4" x 7'-10" Steel Door w/ fixed side vision glass w/ Steel Door Jamb (Medical Storage Room)	1.00	set		
		D-10: 3'-4" x 7'-0" Steel Door w/ side vision glass w/ Steel Door Jamb (Conf. & Training Room)	2.00	set		
		D-11: 3'-4" x 7'-0" Steel Door w/ Steel Door Jamb (Conf. & Training Room)	1.00	set		
		D-15: 3'-3" x 7'-2" Double Leaf Steel Door with viewing glass panel & steel kick plate w/ Steel Door Jamb (Dining/Mess Hall Entrance)	1.00	set		
		D-16: 4'-4" x 7'-2" Double Leaf Steel Door with metal louvers & steel kick plate w/ Steel Door Jamb (Main Entrance)	1.00	set		
		D-18: 3'-4" x 7'-0" Steel Door w/ panic device & steel kick plate w/ Steel Door Jamb (Pent House)	3.00	set		
		D-19: 3'-0" x 7'-0" Steel Louvered Door w/ steel kick plate w/ Steel Door Jamb (Pent House)	3.00	set		
	8310	Access Doors and Panels				
		D-5: 2'-4" x 7'-10" Hollow Wood Door with louver & steel kick plate w/ Steel Door Jamb (Common Toilet Door @ GF, 2F)	2.00	set		
		D-6: 3'-0" x 7'-10" Hollow Wood Door with louver & steel kick plate w/ Steel Door Jamb (Common Toilet Door @ GF, 2F)	2.00	set		
		D-7: 2'-4" x 7'-10" Hollow Wood Door with louver & steel kick plate w/ Steel Door Jamb (Firemen's Toilet Door @ GF)	1.00	set		
		D-17: 3'-4" x 7'-0" Hollow Wood Door w/ fixed side vision glass & steel kick plate & push plate w/ Steel Door Jamb (2F Kitchen)	1.00	set		
		D-13: 3'-0" x 7'-2" Hollow Wood Door with louver & steel kick plate w/ Steel Door Jamb (Staff Toilet & Shower)	1.00	set		
	8400	Entrances,Storefronts,Doors and Windows				
		D-12: 3'-0" x 7'-0" Frameless Tempered Glass Door w/ frosted glass sticker (Office Entrance Door)	5.00	set		
		D-14: 3'-4" x 7'-2" Solid Wood Door with louver & steel kick plate w/ Steel Door Jamb (Main Entrance)	1.00	set		
	8800	Glass and Glazing				
		W-1: 4'-6" x 6'-10" Awning Windows, Aluminum analok frame, Mirror glass finish (Reception/Main Entry)	1.00	set		
		W-2: 4'-6" x 4'-10"Combination Awning & Fixed Windows, Aluminum analok frame, Mirror glass finish (Firemen's Quarters)	2.00	set		
		W-3: 4'-6" x 1'-6" Awning Windows, Aluminum analok frame, Mirror glass finish (PWD Toilet & Common Toilet)	2.00	set		
		W-4: 8'-9" x 1'-8" Awning Windows, Aluminum analok frame, Mirror glass finish (Toilet & Showers)	2.00	set		
		W-5: 4'-6" x 4'-10"Combination Awning & Fixed Windows, Aluminum analok frame, Mirror glass finish (Medical Storage)	1.00	set		
		W-6: 9'-0" x 10'-4" Metal Louvered Windows, Aluminum analok frame, Mirror glass finish (Fireman's Pole)	1.00	set		
		W-7: 3'-4" x 7'-1" Awning Windows, Aluminum analok frame, Mirror glass finish (Hallways 2F)	5.00	set		

		W-8: 16'-0" x 6'-4" Combination Awning & Fixed Windows, Aluminum analog frame, Mirror glass finish (2F Admin Office/ Main Facade)	4.00	set		
		W-9: 17'-0" x 4'-11" Casement Windows, Aluminum analog frame, Mirror glass finish (Officer's quarters, Conference & Training Rm)	3.00	set		
		W-10: 4'-6" x 3'-5" Casement Windows, Aluminum analog frame, Mirror glass finish (Kitchen 2F)	1.00	set		
		W-11: 8'-0" x 4'-5" Casement Windows, Aluminum analog frame, Mirror glass finish (Dining/Mess Hall 2F)	4.00	set		
		W-12: 9'-0" x 7'-0" Frameless Fixed Glass Windows, Frameless Clear Fixed Glass w/ Frosted glass stickers (Admin Stations 2F)	1.00	set		
		W-13: 5'-5" x 7'-0" Frameless Fixed Glass Windows, Frameless Clear Fixed Glass w/ Frosted glass stickers (Admin Stations 2F)	1.00	set		
		W-14: 8'-0" x 7'-0" Frameless Fixed Glass Windows, Frameless Clear Fixed Glass w/ Frosted glass stickers (Comm. Station, Captain's Office)	2.00	set		
		W-15: 8'-5" x 7'-0" Frameless Fixed Glass Windows, Frameless Clear Fixed Glass w/ Frosted glass stickers (Chief of Fire, Admin. Office)	2.00	set		
		W-16: 14'-2" x 7'-0" Frameless Fixed Glass Windows, Frameless Clear Fixed Glass w/ Frosted glass stickers (Admin Work Station & Director's Office)	2.00	set		
		W-17: 10'-8" x 5'-1" Combination Awning & Louvered Windows, Aluminum Analog Frame, Mirror Glass Finish with metal louver (Roof Deck Penthouse)	2.00	set		
		W-18: 14'-0" x 5'-1" Combination Awning & Louvered Windows, Aluminum Analog Frame, Mirror Glass Finish with metal louver (Roof Deck Penthouse)	1.00	set		
		W-19: 6'-5" x 5'-1" Combination Awning & Louvered Windows, Aluminum Analog Frame, Mirror Glass Finish with metal louver (Roof Deck Penthouse)	1.00	set		
		W-20: 14'-0" x 5'-1" Combination Awning & Louvered Windows, Aluminum Analog Frame, Mirror Glass Finish with metal louver (Roof Deck Penthouse)	1.00	set		
Subtotal (Doors & Windows)						
09	FINISHES					
	6200	Finishes(Wall and Partitions)				
		Aluminum Composite Cladding	334.55	sf		
		Metal Stud w/ Cement Board	959.11	sf		
	9510	Acoustic Ceiling 2'x4' incl. tee, runners, etc.	3,484.46	sf		
	9250	Fiber Cement Board (Toilet) incl. furring	1,554.40	sf		
	9310	Ceramic Tiles				
		Ceramic tiles 12x12 (Main Bldg.)	603.00	sf		
		Ceramic tiles 24x24 (Main Bldg.)	4,141.00	sf		
		Exposed Aggregates, (Black Pebbles Washout)	280.00	sf		
	9900	Paints and Coatings				
		Epoxy paint non-slip coating	3,378.00	sf		
		Interior Walls/Columns/Ficem bd./Ceiling	15,273.00	sf		
		Exterior Walls & Columns/eaves	11,068.00	sf		
Subtotal (Finishes)						
10	SPECIALTIES					
	3164	Fire Detection and Alarm System (FDAS)				
		Fire Sprinklers	1.00	lot		
Subtotal (Specialties)						
15	MECHANICAL					
	15400	Plumbing				
		Domestic Water Piping				
		Cold Water Pipes and Fittings	1.00	lot		
		Hot Water Pipes and Fittings	1.00	lot		
		Sanitary Waste and Vent Piping				
		Sanitary Waste Pipes, Vents and Fittings	1.00	lot		
		Plumbing Fixtures and Equipment				
		Water Closet	9.00	set		
		Lavatory, Drop-in	9.00	set		
		Shower heads, valves, curtain	4.00	set		

		Urinal	2.00	set		
		Kitchen Sink	1.00	set		
		Drain Strainer	7.00	pc.		
		Bathroom and Kitchen Accessories				
		Grab Bars	2.00	Sets		
		Toilet paper holder, Stainless Steel, surface mount	9.00	Sets		
		Towel paper dispenser, surface mount, Stainless Steel	6.00	Sets		
		Towel Bar	4.00	sets		
		Soap Dish	4.00	Sets		
		Liquid Soap Dispenser, Wall mount	6.00	Sets		
		Mirror, Stainless Steel Frame	9.00	ea.		
		Subtotal (Mechanical)				
16	ELECTRICAL					
	16100	Equipments, Wiring, Conduits & Fittings, Boxes and Devices				
		Panel Boards, Transformers, Circuit Breakers & ECB'S	1.00	lot		
		Wiring, Lighting System	1.00	lot		
		Wiring, Power System	1.00	lot		
		Wiring, Grounding System	1.00	lot		
		Fire Detection and Alarm System	1.00	lot		
		LAN / Telephone System	1.00	lot		
		CCTV System	1.00	lot		
	16500	Lighting Fixtures				
		28W T5 Fluorescent Lighting Fixture, Surface Mounted	128.00	set		
		18W Pin Light	60.00	set		
		25W Wall mounted Lighting Fixture	5.00	set		
		25W Garden Light (Bollard)	4.00	set		
		23W EF	8.00	set		
		50W Spotlight	4.00	set		
		Subtotal (Electrical)				
LOT #1 TOTAL PROJECT COST (US \$) :						