

APPENDIX - A, PART - I & II (Buildings and Support Facilities)

This newsletter supersedes the Draft PAX Newsletter No. 3.2.2, **dated 15 Sep 10**, and updates the Appendix A, Facility Unit Cost Table, Appendix C, Tri-Service Military Construction Program (MCP) Index, and Table-1, Size Adjustment Factors, contained in TM 5-800-4, Programming Cost Estimates for Military Construction, dated May 1994. It may be used as a guide for preparation and/or review and budget submission of the FY 13 Army MILCON projects' parametric cost estimates, ENG Form 3086, unless otherwise noted. This is published and maintained on the web page at <http://www.usace.army.mil/CaEI/Pages/PAX.aspx>

1. APPENDIX A - FACILITY UNIT COST TABLE (For FY13 and later MILCON, Army Family Housing (AFH) Projects)

a. Most unit costs are based on historic construction award data from FY2008 to 2010 projects, with a few exceptions. In rare cases, where we did not have at least three FY 2008-10 projects entered for a facility-type in the HAG (Historic Analysis Generator) database, we used FY 2007 awards. Most bid data was normalized for 5 (instead of 3 bidder used last year) bidders reflecting in the current bidding climate, incorporated actual construction inflation rate thru 30 Sep 2010, and escalated from 1 Oct 2010 to the assumed mid-point of construction of October 2013 using the inflation rate published in the OSD memo, dated 14 Dec 10, Subject: Inflation Guidance - Fiscal Year FY2012 President's Budget. The unit cost database include only new construction projects, and does not include data from renovation or addition/alteration projects.

b. The tabulation is arranged numerically by category codes. Category code series descriptions are contained in DA Pamphlet 415-28, Guide to Army Real Property Category Codes, dated 11 Apr 2006. The five (5) digit category code is designated by adding XX behind the three (3) digit main category code for this group where unit costs span a group of subcategories or cat code is still not officially established. For example, 851XX and 852XX are designated for roads, streets, parking, apron and sidewalks pavements.

c. Escalation - Unit costs are escalated to 1 October **2013**, the assumed midpoint of construction for **FY13** projects, with an area cost factor (ACF) of 1.00. The MCP inflation indices shown in **Appendix C** (PAX Processor) should be used to escalate the **FY13** unit costs beyond **1 Oct 13**.

d. The Primary Facilities unit costs in Appendix-A, Part-1, include installed (built-in) building equipment and furnishings normally funded by the MILCON funds as described in AR 420-1, contractor's markup cost for overhead & profit, but do Not include allowances for construction contingencies and supervision, inspection, and overhead (SIOH), construction cost growth resulting from user changes, unforeseen site conditions, contract document errors and omissions, or costs for Support Facilities. Unit costs for DoD medical facilities include category A and B equipment, but do not include category E and F equipment costs. Also, the unit costs for Primary Facilities include normal anti-terrorism costs, but exclude the costs for Progressive Collapse resistant construction that are generally required for three (3) or more storied structures, and sustainable construction features,

e. Unit costs should be adjusted by the appropriate area cost factor, cost escalation factor as shown in Appendix C, size adjustment factor in Table I, and other adjustment factors as described in the TM 5-800-4, when applicable. The ACF list is contained in Appendix B, Location Adjustment Factors in the TM 5-800-4, and updated by the latest PAX Newsletter No. 3.2.1, Area Cost Factors Indexes, dated 5 Mar 09, which is also available on the web page as addressed above.

f. Size Adjustment Tables, Table -1: Building size identified in Part I of Appendix A is a reference size, and may not represent the standard size shown in the Army Standard Facilities design criteria. Table I, Size Adjustment Factors, shows a correlation between project size and construction cost, and is used to determine an appropriate size adjustment factor for the proposed facility.

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g. Chart A in Appendix A contains unit costs for Sitework Utility Piping. Chart C in Appendix A contains information for unit of measurement conversion factors between Metric and English Systems.

2. APPENDIX C - TRI-SERVICE MILITARY CONSTRUCTION PROGRAM (MCP) INDEX

Unit costs are escalated to 1 Oct 2013, the assumed midpoint of construction for a typical FY13 MCA project at a location with an Area Cost Factor of 1. The Military Construction Program (MCP) cost index for 1 October 2013 is 2648. For a project with an anticipated midpoint of construction date other than 1 October 2013, a cost escalation factor can be determined from this appendix as follows:

Project Anticipated Midpoint Date - **1 Apr 2014 (MCP Index = 2672)**

Cost Escalation Factor = **MCP Index 1 Apr 2014 / MCP Index 1 Oct 2013 = 2672/2648 = 1.0090**

3. The Point of Contacts for this Newsletter letter at HQUSACE can be reached at (202) 761-7503, DSN-763-7503, or (202) 761-5887, DSN 763-5887.

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APPENDIX-A, PRIMARY FACILITIES UNIT COST TABLE - Interim version (PART - I, Buildings)					
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<u>CAT CODE</u>		<u>Reference/ Standard Size</u>	<u>Unit Of Measure (UOM)</u>	<u>Unit Cost \$/UOM (Interim UC)</u>	<u>Remarks</u> Note-1: No recent Bid Data since 2007 to Forecast UC
124XX	Fuel Storage Tank (Underground)	1,000	GA	5.37	Includes excavation, backfill & manhole, excludes exterior piping & pumping
		5,000	GA	5.18	
		10,000	GA	4.88	
		20,000	GA	4.78	
		30,000	GA	4.60	
13115	Information Systems Facility	40,000	SF	XXX	See Note-1 above
	Houses majority of Garrison level Info Management & Info Tech services plus associated admin Support & shop spaces				
13120	Communications Center	40,000	SF	281.00	
	Hub facility for Internal and External Communications, commercial telephone feeds, and environmental control requirements; DSN, DDN switching equipment. No shielding included.				
13131	Information Processing Center	21,000	SF	281.00	Also called Data Processing Ctr
	Houses personnel and equipment for data-processing; special temperature, humidity, environmental control requirements; raised and security measures				
13181	Satellite Communications Center	6,000	SF	607.00	Data based on 1 Record only
13310	Flight Control Tower	7,500	SF	589.00	
14110	Airfield Operations (Ops) Building	36,000	SF	XXX	See Note-1 above
	Houses flight operations and Airfield HQ functions with or w/o Flight Control Tower. May include passenger support facilities similar to a civilian air terminal. See catcode 13310 above for Flight Control Tower				
14112	Aviation Unit Ops Bldg at Airfield	36,000	SF	226.00	Houses Aviation Unit HQ admin, training, and storage area
14113	Entry Control Point (ECP) -BCTC	400	SF	348.00	BCTC = Battle Command Trng Ctr, see Range Complex
14113	<u>ACCESS CONTROL FACILITY Complex (ACP), Standard Size 6 Lanes</u>				
	The ACP Complex includes roadways, parking, vehicle barriers, control systems and buildings. The vertical structures include Visitor Center, Gatehouse, Guard booths, Search Office, and Canopies. Some ACP equipment are MILCON funded. Some roadworks are to be shown in the Primary Facilities block in the DD1391.				
	ACP Vertical Structures				
14113	Visitor Control Ctr (VCC) 40' by 74'	2,960	SF	274.00	6 Checkers, processes 81-96 visitors/hr
14113	Visitor Control Ctr (VCC) 40' by 62'	2,480	SF		3 Checkers, 65-80 visitors/hr. Use Size Adj Table for UC
14113	Visitor Control Ctr (VCC) 40' by 86'	3,440	SF		9 Checkers, 97-112 visitors/hr. Use Size Adj Table for UC

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	<u>ACCESS CONTROL FACILITY Complex (ACP), Continued from the previous page</u>				
14113	Search Bldg, 30' by 40'	1,200	SF	302.00	Search Bld w/ Pkg Scanner & Detector
14113	Search Bldg, 25' by 26'	650	SF		Bld w/o Pkg Scanner & Detector. Use Size Adj Table
14113	Gatehouse, 50'-4" by 16'-8"	840	SF	442.00	UC inclusive of foundation cost
14113	Guard booth - Prefab, 50 SF each	2	EA	51,000.00	UC inclusive of foundation cost
14113	Guard booth - Pedestrian	1	EA	71,400.00	UC inclusive of foundation cost
14179	I.D. Check Area Canopy, 64' x 69'	4,416	SF	90.00	All Canopies include costs of oversized foundations, high intensity lighting, redundant visual security capability, & solid wall panel privacy, but exclusive of Pavement cost.
14179	Search Area Canopy-Cars, 24'x60'	1,440	SF	80.00	
14179	Search Area Canopy-Trucks, 26'x80'	2,080	SF	75.00	
	<u>ACP - Vehicle Barriers, ACP Equipment, Fencing</u>				
14113	Active Veh Barrier (AVB)	4	EA	81,000.00	AVB with Emergency Fast Operations (EFO) control
14113	Active Veh Barrier (AVB)	1	EA	75,200.00	AVB w/o Emergency Fast Operations (EFO) control
14113	AVB Control System-MCA funded	1	EA	121,000.00	Control Panels & Controller Unit, Veh presence detector
	<u>Passive Vehicle Barriers (PVB)</u>				
14133	K-4 Cable Barriers & FE-6 Fence	varies	LF	175.00	K-4 Vehicle Rated Fence w/ triple cable system
14133	K-8 Cable Barriers & FE-6 Fence	varies	LF	228.00	K-8 Vehicle Rated Fence w/ triple cable system
14133	K-12 Cable Barriers & FE-6 Fence	varies	LF	250.00	K-12 Vehicle Rated Fence w/ triple cable system
14133	K-12 Concrete Barriers & FE-6 Fence	varies	LF	600.00	
	<u>ACP Equipment - OPA Funded</u>				
14113	Electronic Security System	varies	EA	98,000.00	
14113	Point Over speed Detection	per location	EA	23,100.00	for both in- and out-bound lanes
14113	Wrong-way Detection	2 locations	EA	20,100.00	
14113	Continuous Over speed Detection	1-Zone	EA	40,000.00	

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	ACCESS CONTROL FACILITY Complex (ACP), ACP Equipment - OPA Funded, Continued from the previous page				
14113	Continuous Over speed Detection	2-Zones	EA	73,000.00	in both Approach and Access Control zones
14113	Traffic Signal with Arms, installed	1	EA	99,200.00	
14113	CCTV	LS		150,000.00	
	ACP Site Work and Pavements in the Primary Facility Block:				
	Electric Pwr, Conduits & Commo	varies	LS		Add the cost if elect. & commo not present in the vicinity
	Ext Lighting along Road Perimeters	varies	LF	95.00	
	Barrier Overwatch Pad & Jct Box	1	EA	51,000.00	
	Bollards (2 per lane)	1	EA	850.00	
	Diesel Generator & Switchgear	1	EA	83,250.00	
	PAVEMENTS/ROADWAYS In:				
	ACP Corridor roadways, 9" thick	varies	SY	74.00	Guide only UC inclusive of 8" base cost. Use CC 85110
	Search Area roadways, 9" thick	varies	SY	74.00	Guide only UC inclusive of 8" base cost. Use CC 85110
	VCC & Search Area, 9" thick	varies	SY	74.00	Guide only UC inclusive of 8" base cost. Use CC 85110
	VCC & Search area Parking, 9" th	varies	SY	74.00	Guide only UC inclusive of 8" base cost. Use CC 85110
	Curb and Gutters	varies	LF	22.00	In Roadways and Parking perimeters
	Sidewalk, 4' wide	varies	LF	13.00	
14114	CIDC Field Operations Bldg	9,854	SF	187.00	Use Size Adj Table for other sizes, 7674 & 14634 SF
14129	Training Aid Spt Ctr, Range Complex	varies	SF		See Unit Cost under Range Complex, catcode 14129
14132	Ready Building	20,000	SF	215.00	Also called Arrival-Departure Airfield Control Group
14161	Emergency Operations Ctr (EOC)		SF		
14162	SCIF Facility	3,000	SF	254.00	Sensitive Compartmented Information Facility
14165	Fuel/POL/Wash Support Bldg	195	SF	XXX	See Note-1 above
14179	Overhead Protection/Canopy - General	10,600	SF	45.00	support post & foundation cost incl, Pavement separate
14182	Brigade (BDE) Headquarters Bldg	40,100	SF	201.00	Ref Size based on Large BDE HQ w/SCIF, 125-156 staff
	Use Size Adj Table-1, Part-1 for unit cost for Small (31,200 SF), Medium (34,500 SF), and X-Large (55,300 SF) BDE HQs				

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14183	Battalion (BN) HQ Bldg w/Classrms	18,100		224.00	Ref Size based on Large BN, 51-71 staff
	Use Size Adj Table-1, Part-1 for unit cost for Small (14,000 SF), Medium (16,400 SF), and X-Large (20,100 SF) BN HQs				
14185	COMPANY OPERATIONS FACILITY (COF)	varies	SF		COF Ref Size varies based on AM & RM configuration
	Admin Module (AM) - Detached	16,000	SF	183.00	AM size for a 3-8 CO COF w/ detached AM & RM
	Readiness/Storage Module (RM)	42,600	SF	151.00	Ref size based on a 4 CO RM (2-150 PN+ 2-200 PN CO)
	COF w/ Integrated AM & RM	14, 400	SF	171.00	UC for COF that houses AM & RM under one roof
	Admin & Readiness Modules are usually combined for small 1-Company (150 soldiers) or 2-CO (300 soldiers @150 PN/Company Units. For larger COFs (i.e., 3 or more companies) Admin and Readiness Modules are normally detached				
	RM contains fully conditioned and sprinklered storage space for TA-50 Lockers and Arms Vault. The cost of contractor furnished and installed TA-50 Lockers are included in the UC. Admin & Readiness Modules will be programmed separately in DD1391 and ENG3086.				
14179	Overhead Protection/Canopy, COF	10,600	SF	45.00	Foundation cost for support posts incl, Hardstand separate
85210	8"Conc. Pavement w/ 8"base - COF	varies	SY	65.00	Should be programmed under the Support Facility item
	COF Overhead Protection is a Pre-engineered Canopy w/lighting, power, and lightning protection over the equipment layout area. Standard COF contains 4 Overhead Protection canopies for a typical 2-150 Company & 2-200 CO COF.				
14190	Command & Control Fac (C2F)	143,090		249.00	Division/Corps level Cmd Fac for all Service Components
	C2F Bldg contains 3 distinct functional elements, e.g. Admin spaces (110,110 SF), Emergency (Network) Operations Ctr (17,160 SF) and SCIF spaces (15,730 SF). The cost of raised flooring, redundant electrical/mechanical systems, and secured access system is included in the UC. C2F Bldg above Corps level is a non-standard facility.				
14190	Army Command (ACOM) Headquarters	varies	SF	287.00	
14955	Wash Platform	1	EA	83,700.00	2 Vehicles - Low pressure w/Wash Water treatment
14960	Grease Rack	1	EA	62,680.00	
14962	Central Wash Facility, 16 Stations	1	EA	8,129,529.00	CC-83180, Oil & Grease Separator is collocated w/ this
17120	General Instruction Bldg (GIB)	50,000		225.00	This UC is NOT for the Range GIB or Range Classroom
	General Instruction Bldg for Range				
	bldg. See Range Classroom Bld, catcode 17123, below				
Various	<u>RANGE FACILITIES COMPLEX</u>				
	A typical Range Complex consists of Target Emplacements/Firing Points, Range Ops and Control Area, and a number of vertical structures, such as, Control Tower, Range Ops & Storage Bld, Range Classroom Bld, Ammo Breakdown Bld, Field Latrines plus other covered (but not enclosed) structures, e.g. Covered Bleachers, Covered Mess, etc.				

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	<u>RANGE FACILITIES COMPLEX. Continued from the previous page.</u>				
17121	Indoor Firing Range	23,000	SF	202.00	
17801	Basic 10-25m Firing Range (Zero)	FP	EA		Requires 32 Firing Points (FP)
17805	Automated Record Fire Range	FP	EA		Requires 16 FPs
17806	Modified Record Fire Range	FP	EA		Requires 16 FPs
17821	Combat Pistol/MP Firearms Qualifications	FP	EA		Requires 15 FPs
17878	Urban Assault Course	FP	EA		Requires 5 Stations. Each station represents one FP
	Five Stations are: Station 1 - Individual/Team Task; Station 2 - Squad/Platoon Task; Station 3 - Grenadier Gunnery;				
	Station 4 - Urban Offence/defense, and Station 5 - Underground Trainer				
17879	Live Fire Exercise Shoothouse	FP	EA		Requires 10 FPs. Each room & corridor represents 1 FP.
	There are 8 room and 2 corridors in standard shoothouse.				
	Range Operation & Control Facilities (ROC)				
17213	Battle Command Training Ctr	46,060	SF	310.00	Use Size Adj Table for other sizes: 85,630 & 145,585 SF
17122	Ammunition Breakdown Bldg	185	SF	690.00	
17122	Operations/Storage Bld - Small	800	SF	257.00	
"	Operations/Storage Bld - Large	1800	SF	233.00	
17123	Range Classroom Building	800	SF	257.00	This is the same Bldg as the Gen Instruction Bldg- Range
17123	After Action Review Bld - Small	1,064	SF	212.00	
"	After Action Review Bld - Large	3,024	SF	209.00	
"	Combined ROC/AAR-Digital Range	4,176	SF	207.00	
14129	Training Support Center (TSC)	74,025	SF	134.00	Use Size Adj. Table for other Sizes: 27,820 & 124,630 SF
"	Training Support Center (TSC)	27,820	SF		
14129	Training Support Center (TSC)	124,630	SF		
14970	Vehicle Instrumentation Dock	1	EA	101,700.00	Standard Size 900 SF, Covered dock

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	<u>RANGE FACILITIES COMPLEX, Continued from the previous page</u>				
14970	Ammo Loading Dock	1	EA	52,320.00	Standard Size 480 SF, Not Covered
17139	Covered Mess -	800	SF	134.00	Includes hardstand cost below canopy
"	Covered Mess - Service Schools	1413	SF		Use Size Adj Table to determine UC
	<u>Range Control Towers (RCT)</u>				
17971	Tower w/ Open Observation deck	1	EA	270,575.00	Open Decks, stairs, & walkways are considered 1/2 areas Foundation cost included in the UC. Standard Size 657 SF
"	Tower w/ Enclosed Observation - Non Inst (used for Non-Instrumented Range)	1	EA	467,000.00	Foundation cost included. Std. Size 802 SF.
"	Tower w/Enclosed Observation (used for Instrumented Range)	1	EA	822,105.00	Foundation cost included. Std. Size 1544 SF
73075	Field Latrine-Aerated Vault Type	330	SF	563.00	
"	Field Latrine-Water Closet	550	SF	537.00	
75061	Covered Bleacher	1	EA	101,639.00	Standard Size 726 SF
"	Covered Bleacher for Svc Schools	1	EA	145,185.00	Standard size 1078 SF
17133	Vehicle Maint. Instructional Bldg	30,000	SF	189.00	
17134	Aircraft Maint Instructional Bldg	35,000	SF	248.00	Hi-Bay Bldg
17135	Laboratory Instructions Bldg	9,000	SF	XXX	See Note-1 above
17136	Automation Aided Instruction Bldg	25,000	SF	249.00	
17137	Material Handling Instructional Bldg	40,000	SF	XXX	See Note-1 above
17139	Covered Mess	800	SF	XXX	See Range Complex
17140	Army Reserve Center Bldg	48,000	SF	185.00	
17141	Armed Forces Reserve Center Bldg	48,000	SF	185.00	New Catcode for Reserve Ctr
17142	National Guard/Reserve Ctr Bldg	XXX	XX	XXXX	This Catcode is No longer Used by the Army
17180	Army National Guard Readiness Ctr	48,000	SF	180.00	New Catcode for ARNG Readiness Ctr
17210	Simulator Building- Motion Based	32,000	SF	237.00	
17971	Control/Observation Tower	XXX	XX	XXXX	See Range Complex

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	<u>AIRCRAFT (AC) MAINT HANGARS</u>				
21110	Hangar - General Purpose	80,000	SF	230.00	
	Hangar - High Bay	60,000	SF	248.00	
21110	Corrosion Control Hangar	35,000	SF	294.00	
21110	<u>ARMY HANGAR STANDARDS- Rotary Wing AC Maint Hangars</u>				
"	Attack-Assault-Cavalry (AAC) BN	147,470	SF	240.00	
"	Aviation Support Battalion (ASB)	157,500	SF	248.00	
"	Ground Spt Aviation Battalion (GSAB)	157,500	SF	230.00	
21115	Unmanned Aerial Veh Maint Hangar	134,400	SF	226.00	
"	Unmanned Areal Vehicle Storage Bld	1,800	SF	130.00	
21117	Avionics Maint Shop	23,000	SF	181.00	
21120	Aircraft Component Repair Shop	20,000	SF	XXX	See Note-1 above
21130	Aircraft Paint/Corrosion Control Shop	35,000	SF	294.00	
21140	Aircraft Engine Test facility	26,000	SF	229.00	
21210	Guided Missile Maint Facility	10,300	SF	XXX	See Note-1 above
Varies	<u>TACTICAL EQUIPMENT MAINT FACILITY (TEMF) COMPLEX</u>				For Track and Wheeled vehicles
	TEMF Complex includes Admin space, Repair & Maintenance shops and work-bays w/ overhead crane, arms/COMSEC vault, Storage areas, Deployment Storage bldg, POL Storage bldg, Tactical Vehicle Parking Apron, Hazard Waste Storage area, Use Size Adj Table-1, Part-1 for unit cost for Small (18,000 SF), Large (57,031 SF), and X-Large (74,688 SF) TEMFs.				
21409	Vehicle Maint Shop, Army Reserve	13,000	SF	212.00	
21410	Tactical Equipment Maint Facility	35,290	SF	207.00	Use Size Adj Table for other sizes
85210	Organizational (tactical) Veh Parking	32,000	SY	74.00	9" Conc. w/ 8" base; use local data if available
44224	Org. Storage Bldg, Veh Maint Shop	6,000	SF		Use UC for CC44224, Organizational Equip Storage Bldg
21470	POL Storage Bldg, Veh Maint Shop	600	SF	146.00	
21470	Hazardous Waste Storage Bldg	600	SF	146.00	Use the same UC as the POL Storage Bldg above
21115	Unmanned Areal Vehicle Storage Bld	1,800	SF	102.00	includes wet-pipe sprinklers
44220	Distribution CO Storage Bldg w/Loading I	8,000	SF	95.00	incl. loading dock, secured storage area & wet-pipe sprinklers
21470	Oil Storage Bldg	600	SF		See TEMF POL Storage Bldg in the previous page

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<u>CAT CODE</u>		<u>Reference/ Standard Size</u>	<u>Unit Of Measure (UOM)</u>	<u>Unit Cost \$/UOM (Interim UC)</u>	<u>Remarks</u> Note-1: No recent Bid Data since 2007 to Forecast UC
21610	Ammunition Renovation Shop	6,500	SF	XXX	See Note-1 above
21612	Ammunition Surveillance Shop	13,000	SF	XXX	See Note-1 above
21630	Ammunition Demilitarization Fac	82,500	SF	XXX	See Note-1 above
21710	Electronics Maint Shop	5,500	SF	172.00	
21740	Aircraft Avionics Maint Shop	23,000	SF		See Avionics Maint Shop, Catcode 21117 UC above
21850	Battery Shop	5,000	SF	XXX	See Note-1 above
21881	Parachute Repair Shop	8,000	SF	210.00	
21885	General Purpose Maint Shop	31,000	SF		See Eng/Housing Maint Shop, Catcode 21117 UC above
21910	Engineering/Housing Maint Shop	31,000	SF	163.00	
31010	Chemistry Lab	9,000	SF	XXX	See Note-1 above
31410	Ground Transportation Equip Bldg	31,000	SF	XXX	See Note-1 above
41150	Liquid Fuel Storage Tank - Bulk	2,500	BL	91.00	Above Ground Steel Tank including Foundation Dyke and Exterior Coating (BL = Barrel ; 42 US Gallon = 1 BL)
		5,000	BL	60.00	
		10,000	BL	44.00	
		25,000	BL	33.00	
		50,000	BL	23.45	
		100,000	BL	16.60	
41150	Liquid Fuel Storage Tank - Bulk	250000	BL	14.65	Above Ground Steel Tank w/ Float Pans, including Foundation Dyke & Exterior Coating (BL = Barrel ; 42 US Gallon = 1 BL)
		2,500	BL	90.86	
		5,000	BL	60.00	
		10,000	BL	48.85	
		25,000	BL	38.10	
		50,000	BL	30.30	
100,000	BL	22.50			
250,000	BL	18.55			
42120	Hi Explosive Magazine w/Crane	4,000	SF	262.00	Use same UC for CC42180, Igloo Storage & CC42280
42183	General Purpose Magazine w/o Crane	4,000	SF	279.00	Use same UC for CC42283, Igloo Storage w/o Crane

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43211	Cold Storage Building/Warehouse				
	Cold Storage w/Processing	11,000	SF	XXX	See Note-1 above
	Cold Storage w/o Processing	6,000	SF	XXX	See Note-1 above
44110	General Purpose (GP) Warehouse				
	Lo-Bay, upto 16' Clear Stack height	40,000	SF	109.00	Use same UC for CC44220, GP Warehouse, Installation
	Hi-Bay, upto 26' Clear Stack height	100,000	SF	90.00	Use same UC for CC44220, GP Warehouse
44130	Controlled Humidity Warehouse	40,000	SF	XXX	See Note-1 above
44135	Hazardous Material Storage Bldg	21,000	SF	146.00	
44228	HAZMAT Storage- Army Reserve Ctr	500	SF		Use the same UC as CC21470
44150	Flammable Material Storage	8,200	SF	XXX	See Note-1 above
44181	Covered Vehicle Storage Facility	16,000	SF	XXX	See Note-1 above
44182	Vehicle Storage Facility	16,000	SF	XXX	See Note-1 above
44210	Aircraft Parts Storage Fac, Installation	16,000	SF	XXX	See Note-1 above
44220	Distrib. CO Storage Bldg w/Loading D	8,000	SF	114.00	
44222	Storage Shed	2,500	SF	51.00	Covered Storage, not enclosed
44224	Organizational Equipment Storage Bldg	6,000	SF	89.00	For COF Equip Storage, see Readiness Module, CC14185
"	Organizational Storage Bld - Reserve	4,000	SF	102.00	
45210	Open Storage Area, Installation	XXX	SY		Use Catcode 851XX, Pavements, from Part-II, PAX
51010	Inpatient Hospital/Medical Center	Varies	SF	439.00	
53060	Medical Warehouse	44,000	SF		See Note-1 above
53071	Ambulance Garage	480	SF		See Note-1 above
54010	Dental Clinic	15,000	SF	395.00	
55010	Medical Clinic attached to Hospital	160,000	SF	337.00	
	Troop Medical Clinic, Free Standing	30,000	SF	300.00	
	Large Medical Clinic, Free Standing	140,000	SF	258.00	
61001	Military Entrance Processing Stn	26,810	SF	XXX	See Note-1 above

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<u>CAT CODE</u>		<u>Reference/ Standard Size</u>	<u>Unit Of Measure (UOM)</u>	<u>Unit Cost \$/UOM (Interim UC)</u>	<u>Remarks</u> Note-1: No recent Bid Data since 2007 to Forecast UC
61050	Administrative Fac, General Purpose	65,000	SF	212.00	Prewired work station @ \$4500/Stn - installed, NOT incl.
	This multipurpose building provided office space, visitors area, auditorium, cafeteria, storage space, etc for administrative personnel				
61050	Command Headquarters Bldg	Varies	SF	264.00	Use this UC for HQS Bld above Corps, ARCOM HQS only
62010	Underground Administrative Facility	6,000	SF	XXX	See Note-1 above
	<u>FAMILY HOUSING DWELLINGS - CONUS & OCONUS</u>				
	Show "Families (FA)" as the UOM in the in the Primary Line item by category code. Use SF per Family as the UOM in Subline item.				
	Don't need to size adjust the UC per SF (using the Size Adj Table-1, Part -I) as the adjusted unit cost per FA by catcode, grade, and number of bedroom/per dwelling is already provided in the UC column below. Use Size Adj Table-1, Part - II only for project size adj.				
	Normally 2-car garage (400 SF) are provided with each dwelling. GSF of garage is not included in the dwelling GSF, but cost of garage is considered included in the AFH unit cost as a norm. (i) Add up to 300 SF/FA for harsh climates, defined as having more than 7,500 Heating Degree Days (HDD) annually, or 5,500 Cooling Degree Days (CHD), annually. (ii) Gross SF may be increased by 10% FA for housing units for an officer holding a special command position for the commanding officer of a military installation, and for the senior non-commissioned officer of a military installation.				
Varies	<u>FAMILY HOUSING DWELLINGS</u>	No. of Bedroom	Family Unit& SF	CONUS/ OCONUS	
	10%/FA for housing units for an officer holding a special command position, for the commanding officer of a military installation, and for the senior non-commissioned officer of a military installation				
71111	General Officer, Grade O10	4 Bedrooms	4,060 SF/FA	132.57/ 152.21	
"	General Officer, Grade O9	4 Bedrooms	4,060 SF/FA	132.57/ 152.21	
"	General Officer, Grade O8	4 Bedrooms	3,330 SF/FA	135/ 155	
"	General Officer, Grade O7	4 Bedrooms	3,330 SF/FA	135/ 155	
71112	Colonel, Grade O6	4 Bedrooms	2,520 SF/FA	130/ 150	
71113	LT. Colonel & Major, Grade O4&5	4 Bedrooms	2,310 SF/FA	125/ 145	
"	LT. Colonel & Major, Grade O4&5	3 Bedrooms	2,020 SF/FA	127.25/ 147.61	
71113	Warrant Officer, Grade W4&5	4 Bedrooms	2,310 SF/FA	125/ 145	
"	Warrant Officer, Grade W4&5	3 Bedrooms	2,020 SF/FA	127.25/ 147.61	

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<u>CAT CODE</u>		<u>Reference/ Standard Size</u>	<u>Unit Of Measure (UOM)</u>	<u>Unit Cost \$/UOM (Interim UC)</u>	<u>Remarks</u> Note-1: No recent Bid Data since 2007 to Forecast UC
Varies	<u>FAMILY HOUSING DWELLINGS -</u> Continued from the Previous page	No. of Bedroom	Family Unit& SF	CONUS/ OCONUS	
71114	CO Grade Officer, O1-3	5 Bedrooms	2,510 SF/FA	121.28/ 141.00	Use this for Warrant Officer, W1-3, too
"	CO Grade Officer, O1-3	4 Bedrooms	2,150 SF/FA	123/ 143	Use this for Warrant Officer, W1-3, too
"	CO Grade Officer, O1-3	3 Bedrooms	1,860 SF/FA	125.21/ 145.57	Use this for Warrant Officer, W1-3, too
71115	Senior NCO, E-9	4 Bedrooms	2,310 SF/FA	122.39/ 142.29	
71115	Senior NCO, E-9	3 Bedrooms	2,020 SF/FA	123.62/ 143.72	
"	Senior NCO, E-7&8	5 Bedrooms	2,510 SF/FA	121.28/ 141.00	
"	Senior NCO, E-7&8	4 Bedrooms	2,150 SF/FA	123/ 143	
"	Senior NCO, E-7&8	3 Bedrooms	1,860 SF/FA	125.21/ 145.57	
71116	Junior NCO/Enlisted, E-1 thru 6	5 Bedrooms	2,300 SF/FA	117.84/ 137.48	
"	Junior NCO/Enlisted, E-1 thru 6	4 Bedrooms	1,950 SF/FA	120/ 140	
"	Junior NCO/Enlisted, E-1 thru 6	3 Bedrooms	1,630 SF/FA	122.16/ 142.52	
	GARAGE & CARPORTS				
71410	Detached Garage	500	SF	64.00	Masonry, 2 Cars
"	Detached Garage	500	SF	54.00	Wood, 2 Cars
85218	Parking Garage, Multistoried	175,000	SF	54.00	Assumes 425-450 SF/Vehicle to include turning radii & ramps
71411	Carport - 2 Cars	500	SF	44.65	
72010	Temporary Lodging	30,000	SF		See Catcode 72412 also called Transient Housing
72111	Barracks - Permanent Party (UEPH)	150-199	Person	186.23	Use Table-1, Part-II, Project Size Adj. Table for CC-72111
	Unit cost does not include the cost for free standing equipment. All finished of unfinished areas with an average height of 6'-11" (2100 MM), measured from the underside of the structural system, and areas with perimeter walls measuring 4'-11" (155 MM) or more, shall be counted as full scope.				
Various	WARRIORS IN TRANSITION (WT) BARRACKS COMPLEX				
72112	WT Barracks, 56 Person Module	37,800	SF	213.00	Use Table-1, Part-I, Size Adj. Factor Table for CC7212
14188	WT Battalion HQS w/o Classrm	8,100	SF	234.00	For Stand Alone Battalion (BN) HQS Bldg

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	WARRIORS IN TRANSITION (WT) BARRACKS COMPLEX - Continued from the previous page				
14188	WT Company (CO) HQ Bldg	10,300	SF	230.00	For Stand Alone CO HQS Bldg
14188	Joint BN-CO Admin/Ops Fac	18,400	SF	XXX	Not Sufficient Data
74033	Soldiers Family Assistance Ctr	15,000	SF	300.00	
72210	Dining Fac-Seating 251-500 Pers	18,000	SF		See Catcode 72210, Dining Fac (DFAC), below for UC
Various	OPERATIONAL READINESS TRAINING COMPLEX (ORTC)/ TRANSIENT TRAINING COMPLEX				
72114	Enlisted Barracks, Transient Trng	30,560	SF	157.00	
72412	Sn. Enlisted Officers Qtrs, Transient	22,560	SF	182.00	
14184	Battalion HQ Bldg, Transient Trng	11,235	SF	156.00	
14186	COF/HQ, 6 COFs/BN, Transient Trng	19,580	SF	154.00	
14179	Hardstand Cover - Transient Trng	12,853	SF	45.00	Canopy post & foundation cost incl, Hardstand cost separate
85210	Hardstand W/COF, 4" concrete	varies	SY	36.00	Guidance only. Program this item under Supporting Fac
14187	Brigade HQ Bldg, Transient Trng	10,240	SF	167.00	
21406	Vehicle Maint Shop, Transient Trng	11,855	SF	171.00	
44222	6 COF Storage Sheds @ 800 SF/COF	4,800	SF	53.00	Cover/Shed cost only, cost of flooring underneath extra
72212	Dining Fac, 720 PN-Transient Trng	16,980	SF	321.00	Std REF Size for ORTC-Dining Fac is 16,960 SF; Use Size Adj Table-1, Part-1 for the 20,990 SF Dining Fac
	Dining Fac, 1428 PN-Transient Trng	20,990	SF		
Varies	ADVANCE INDIVIDUAL TRAINING (AIT) COMPLEX				
72121	AIT Barracks w/CO Ops Space		SF	194.00	372,000 SF total, 4 Barracks/CO Ops Bld @93,000 SF/Ea
	Calculate average individual Barrack/CO Ops Bldg size, then use Size Adj. Factor Table-1, Part-I Table to determine AIT Barracks/CO Ops Bld UC using Base price of \$194/SF for ACF=1. AIT Complex may contain 1,2,3, or 4 Brks/CO Ops Bldgs.				
14182	AIT Brigade HQS, if needed	9,100	SF	201.00	
14183	AIT Battalion HQS w/ Classrms	12,300	SF	224.00	
72210	Dining Fac, AIT, 1300 PN, 544 seats	30,500	SF	235.00	Std REF Size for AIT-Dining Fac is 30,500 SF.
72210	Dining Fac, AIT, 2600 BN, 1088 seats	56,000	SF		Use Size Adj Table-1, Part-1 for 56,000 SF AIT Dining.

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Varies	BASIC TRAINING (BT/IET) and ONE STATION UNIT TRAINING (OUST) BARRACKS COMPLEX				
	The BT/OUST Complex includes Barracks with Company Ops space in the main level, Battalion HQS building with Classrooms, Dining Facility, Lawn equipment Storage (2000 SF) building, and a 1/4 mile 8-Lane Athletic Track. Central Energy Plant may be programmed, if needed.				
72181	BT/OUST Brks w/ CO Ops Space		SF/Barracks	168.00	323,500 SF total, 5 Barracks/CO Ops Bld @64,700 SF/Ea
	Calculate average individual Barrack/CO Ops Bldg size, then use Size Adj. Factor Table-1, Part-I Table to determine BT Barracks/CO Ops Bld UC using Base price of \$168/SF ACF=1. BT/OUST Barracks Complex may contain 1,2,3, 4 or 5 Brks/CO Ops Bldgs.				
	Scope of Covered Training Area under Barracks w/CO Ops Space is included in the each individual Bldg gross area.				
	Battalion (BN) HQS W/ Classrms	23,500	SF	189.00	
72210	Dining Fac for 1 BN, 1300 trainees	30,500	SF	263.00	544 seats
"	Dining Fac for 2 BN, 2600 trainees	56,000	SF		1088 seats, See comments below for UC
	Covered Queuing Area is included in the Dining Facility area calculation. Standard Reference Size for the BT/OUST Training Dining Facility is 30,500 SF. Use Size Adjustment Table for calculating other Dining Facility UCs.				
Varies	DINING FACILITIES (DFAC)	Varies	SF		
	Cost includes MCA funded Kitchen equipment and installation. 26,500 SF is the Reference Size to calculate UC for other DFAC sizes when UC is not indicated				
72210	Dining Facility for 801 to 1300 PN	26,500	SF	328.00	Use Size Adj Table for UC calculation of other Dining sizes
	Dining Facility for 251 to 500 PN	18,000	SF		Use Size Adj Factor Table for UC calculation
	Dining Facility for 501 to 800 PN	19,500	SF		Use Size Adj Factor Table for UC calculation
72210	Dining Fac, Training Complex, 1300 PN	30,500	SF	263.00	Covered Queuing area is included in the Dining Fac SF.
	Dining Fac, Training Complex, 2600 PN	56,000	SF		Use Size Adj Factor Table for UC calculation
72210	Dining Facility - Basic/OUST Trng	30,500	SF		Use Size Adj Factor Table-1 for UC calculation
	Dining Facility - Basic/OUST Trng	56,000	SF		Use Size Adj Factor Table for UC calculation
72212	Dining Facility - ORTC, 720 PN	16,960	SF	302.00	Use this Size as the Ref Size for other ORTC DFAC size
	Dining Facility - ORTC 1248 PN	20,990	SF		Use Size Adj Factor Table-1 for UC calculation

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72410	Unaccompanied Officers Quarters	44,000	SF	218.00	
72412	Unaccomp. Officers Qtrs- Transient	44,000	SF	190.00	Temporary Lodging Facility
73010	STAND ALONE FIRE STATIONS (FS) - FS & Air Rescue Fire Fighting Fire Stations (ARFF)				
	These are stand alone Fire Stations. Their sizes are determined by the authorized number of Apparatus Bays which house Emergency Vehicles, number of Dorm rooms, and whether they are HQs or Satellite Stations. A standard Apparatus Bay shall be 62' x 91' for a 2- or 3-CO Station; for a Air Rescue Fire Fighting (ARFF) Apparatus Bay is 70' x 91'				
73010	Fire Station, 2-CO HQs, 3 Apparatus	20,200	SF	250.00	Use Size Adj Table-1, Part-1 for UCs of other sizes
"	Airfield Fire/Crash Rescue Station	30,000	SF	293.00	To be used for USAF projects only - New addition
	CONSOLIDATED FIRE, SAFETY & SECURITY (FSS) Facilities				
	Combined Military Police, Safety, Fire & Emergency Svc. Also called Directorate of Emergency Services (DES) Facility				
73010	Consolidated FSS Fac - Medium	15,000	SF	244.00	Use Size Adj Table-1, Part-1 for UCs of other sizes
"	Consolidated FSS Fac - HQ	47,700	SF	225.00	
73016	Police/Law Enforcement (MP) Station	4,200	SF	257.00	
73017	Chapel - Pew seating capacity 200 PN	17,900	SF	266.00	
	Use Size Adj. Table-1, Part-1 for other standard Chapel sizes: 22,600 SF (400 PN seating), 32,900 SF (600 PN seating)				
73017	Chapel for Initial Entry Trainees (IET)	35,000	SF	251.00	New Std. Worship Center for IET, 1428 PN Pew seating
73018	Religious Education Facility	5,320	SF	244.00	For upto 10 small groups of 55-70 persons
	A dedicated space for Religious Education and Religious Activities. Should be reported separately from the worship space if collocated in a Chapel, catcode 73017. Use Size Adjustment Factor Table-1, for other UC of other sizes.				
73019	Chapel Family Life Ctr (300-450 PN)	16,970	SF	269.00	Use Size Adj Table-1, for UCs of Small Family Life Ctr
73046	DEPENDENT SCHOOLS				
	Elementary		SF	216.00	
	Junior High		SF	222.00	
	High		SF	228.00	
74010	Auditorium, General Purpose	4,000	SF	XXX	See Note-1 above
74011	Bowling Center	7,800	SF	XXX	See Note-1 above
74012	Cafeteria	5,000	SF	XXX	See Note-1 above

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<u>CAT CODE</u>		<u>Reference/ Standard Size</u>	<u>Unit Of Measure (UOM)</u>	<u>Unit Cost \$/UOM (Interim UC)</u>	<u>Remarks</u> Note-1: No recent Bid Data since 2007 to Forecast UC
74014	Child Development Center (CDC)	25,000	SF	xxx	CDC CC74014 is replaced by 2 new catcodes below
74016	CDC-School Age, >6 years of age	20,500	SF	250.00	Program CDC Playground, CC75018, separately
Use this Medium size, 150-180 School Age children CDC as the Reference size & Size Adj. Factor Table-1, Part-1 for other CDC costs					
74017	CDC-Preschool, 232 children, 0-6 yrs	26,450	SF	254.00	Program Outdoor Play Area, CC75018, separately
Use this Medium size Pre-School CDC as the Reference size and the Size Adjust. Factor Table-1, Part-1 for other CDC costs					
74021	Commissary	85,000	SF	180.00	UC Based on 2 bid results.
74022	Skill Development Center	22,000	SF	xxx	See Note-1 above
74023	Credit Union	3,000	SF	xxx	See Note-1 above
74024	Skill Development Ctr - automotive	15,000	SF	133.00	Also known as MWR Auto Hobby Shop
74025	Education Center for 10,000-15,000 PN	23,300	SF	244.00	Also called Army Continuing Education System Fac
Use Size Adjust. Factor Table-1 and 23,300 SF as the Reference size for other Education Center sizes					
74028	Physical Fitness Center/Facility	65,000	SF	203.00	Program Indoor Swimming Pool, CC74072 separately
Use Size Adjust. Factor Table-1 and 65,000 SF as the Reference size for other Fitness Center sizes					
74030	Sports Pro Shop	28,000	SF	xxx	See Note-1 above
74033	Army Community Service Ctr (ACSC)	17,215	SF	xxx	See Note-1 above
	Soldier Family Support Ctr (SFSC)	15,000	SF	261.00	Use Size Adj Table-1, for UCs of other ACSCs.
74041	Main Library	12,000	SF	xxx	See Note-1 above
74047	Service Club	22,500	SF	xxx	See Note-1 above
74048	Officer Open Dining Facility	22,500	SF	xxx	See Note-1 above
74053	Main Exchange	80,000	SF	148.00	
74056	Exchange Service Outlet			xxx	See Note-1 above
74066	Youth Center	25,000	SF	234.00	
74068	Recreation Center	20,000	SF	xxx	See Note-1 above
74070	Indoor Roller Skating Rink	20,000	SF	xxx	See Note-1 above
74072	Natatorium (Indoor Swimming Pool)	20,000	SF	208.00	25 meter pool (6200 SF water area) w/ancillary areas
74075	Recreational Support Building	5,000	SF	xxx	See Note-1 above

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CATEGORY	ITEM	QUANTITY	UNIT of MEASURE	UNIT COST	REMARK
CODE				\$/UNIT	
111XX	AIRFIELD RUNWAYS				SEE CATCODE 851XX
112XX	AIRFIELD TAXIWAYS				SEE CATCODE 851XX
113XX	AIRFIELD APRONS				SEE CATCODE 851XX
116XX	AIRFIELD PAVING, MISC				SEE CATCODE 851XX
81150	UNINTERRUPTIBLE POWER SUPPLY (UPS)		KW	\$4,912.00	UTILITY SYSTEM TO ENSURE CONTINUOUS ELECTRIC PWR SUPPLY DURING OUTAGES AND INCLUDES ELECTRIC SYSTEM COMPONENTS (RECTIFIER, CHARGER, BATTERY, INVERTER, ETC)
81160	STANDBY GENERATOR	75	KW	\$535.00	UTILITY SYSTEM TO ENSURE CONTINUOUS ELECTRIC PWR SUPPLY DURING OUTAGES. COST INCLUDES ELECTRIC SYSTEM COMPONENTS SUCH AS RECTIFIER, CHARGER, BATTERY, INVERTER, TRANSFER SWITCH ETC)
		125	KW	\$384.00	
		200	KW	\$306.00	
		300	KW	\$261.00	
89111	POWER PLANT BUILDING		SF	\$171.00	STAND ALONE BUILDING TO HOUSE EQUIPMENT AND STATIC SWITCHGEAR NECESSARY TO GENERATE ELECTRIC POWER
81230	EXTERIOR LIGHTING w/ UNDER GROUND DISTRIBUTION		LF	\$33.00	BASED ON WOOD POLE, 1" PVC DIRECT BURIAL CONDUIT, WITH 3' DEEP EXCAVATION, #10 WIRE AND 500 WATT MV LAMINAR FIXTURE
81241	OVERHEAD ELECTRIC LINES				
	MEDIUM TO HEAVY DISTRIBUTION LINES		MI	\$112,430.00	BASED ON WOOD POLES 15 KV TO 69 KV SHORT LINES, WOOD POLE, 3 PH, 4 WIRE
	OVERHEAD W/ WOOD POLES		LF	\$27 - 32.00	BASED ON POLE SPACING 250', WITH 15 KV MAX, 3 PHASE, 4 WIRE
81242	UNDERGRD ELECTRIC LINES				
	DIRECT BURIAL:				COSTS INCL TRENCH, SAND BASE, BACKFILL AND MARKER
	# 1/0		LF	\$18.00	3/C - 600V DB
	# 4/0		LF	\$30.00	3/C - 600V DB
	UG DUCTS:				
	1-WAY-4"		LF	\$23.00	TYPE EB, PVC, CONCRETE ENCASED 3" EACH WAY, INCLUDES EXCAVATION AND BACKFILL TO 3 FEET DEEP
	2-WAY-4"		LF	\$28.00	
	4-WAY-4"		LF	\$35.00	
6-WAY-6"		LF	\$52.00		
81320	SUBSTATION, LOAD UNINTER. SWITCH 600 AMP		KVA	\$75.00	300 KVA & BELOW W/CLF FUSES. DOES NOT INCL BUILDING (89113)
81360	TRANSFORMERS				PRIMARY DELTA OR Y,277/480 V SECONDARY
	150 KVA		EA	\$12,660.00	OIL-FILLED, PAD MOUNTED, 3-PHASE
	500 KVA		EA	\$18,930.00	
	1,000 KVA		EA	\$34,190.00	
	2,000 KVA		EA	\$50,300.00	
82110	HEAT PLANT COAL-FIRED				
	STEAM:				
	50 MBTU/H (MILLION BTU/H)		EA	\$4,134,310.00	UTILITY SYSTEM THAT GENERATE HEAT FROM COAL AND INCLUDES FURNACE, BOILERS, WATER SUPPLY, PUMPS, PIPELINES, & FUEL & ASH HANDLING FACILITIES.
	100 MBTU/H		EA	\$7,581,410.00	
	150 MBTU/H		EA	\$10,803,850.00	
	200 MBTU/H		EA	\$13,841,350.00	
	HITEMP WATER:				INCLUDES FURNACE, BOILERS, WATER SUPPLY, PUMPS, PIPELINES, & FUEL & ASH HANDLING
	50 MBTU/H		EA	\$3,942,020.00	
	100 MBTU/H		EA	\$6,329,420.00	

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CATEGORY CODE	ITEM	QUANTITY	UNIT of MEASURE	UNIT COST \$/UNIT	REMARK
82110	HEAT PUMP COAL FIRED (Continued from the previous page)				INCLUDES FURNACE, BOILERS, WATER SUPPLY, PUMPS, PIPELINES, & FUEL & ASH HANDLING
	150 MBTU/H		EA	\$8,439,970.00	
	200 MBTU/H		EA	\$10,803,850.00	
82120	HEAT PLANT OIL-FIRED				
	STEAM:				
	10 MBTU/H		EA	\$746,490.00	INCLUDES PLANT EQUIP & OIL HANDLING FACILITY
	50 MBTU/H		EA	\$2,564,500.00	
	100 MBTU/H		EA	\$4,911,550.00	
	150 MBTU/H		EA	\$7,125,230.00	
	200 MBTU/H		EA	\$8,630,530.00	
	HITEMP WATER:				
	10 MBTU/H		EA	\$674,740.00	
	50 MBTU/H		EA	\$2,381,820.00	
	100 MBTU/H		EA	\$4,444,170.00	
	150 MBTU/H		EA	\$6,329,420.00	
82210	STEAM CONDENSATE LINES - UNDERGROUND				STEAM SUPPLY & RETURN LINES, COST INCLUDES INSULATION, FITTINGS, ACCESSORIES, 3 FEET EXCAVATION, BACKFILL AND TESTING
	COMMON CONDUIT:				
	11-1/4"		LF	\$219.00	STM: 2", RET: 1-1/2"
	10"		LF	\$200.00	STM: 1-1/2", RET: 1-1/2"
	10"		LF	\$190.00	STM: 1-1/4", RET: 1"
	10"		LF	\$188.00	STM: 1", RET: 1"
	SINGLE CONDUIT:				STEAM OR HITEMP WATER, COST INCLUDES FITTINGS, ACCESSORIES, 3 FT EXCAVATION, BACKFILL AND TESTING
	6"		LF	\$119.00	1-1/4" PIPE
	8"		LF	\$129.00	1-1/2" PIPE
	8"		LF	\$131.00	2" PIPE
	10"		LF	\$158.00	2-1/2" PIPE
	10"		LF	\$169.00	3" PIPE
	11-1/8"		LF	\$204.00	4" PIPE
	15"		LF	\$234.00	6" PIPE
82220	HOT WATER LINES - HIGH TEMPERATURE				HOT WATER SUPPLY & RETURN LINES
	COMMON CONDUIT - UNDERGROUND				INCLUDES FITTINGS, ACCESSORIES, 3 FT EXCAVATION, BACKFILL & TESTING
	12"		LF	\$171.00	HW: 1", RET: 1"
	12-7/8"		LF	\$209.00	HW: 1-1/2", RET: 1-1/2"
	15"		LF	\$257.00	HW: 2", RET: 2"
	18"		LF	\$282.00	HW: 3", RET: 3"
	21"		LF	\$327.00	HW 4., RET: 4"
82220	STEAM DISTRIBUTION MANHOLE, PREFAB STEEL, 8' X 6' HT		EA	\$17,270.00	VENT, MH VENT, NORMAL PIPING & INSTALLATION, CONDUIT, INCL LADDER
82410	GAS PIPE LINES - HEATING GAS TRANSMISSION				SEE CHART A
82610	AIR CONDITIONING/REFRIG PLANT				DOES NOT INCLUDE AIR-CONDITIONING/ REFRIGERATION PLANT, COST INCLUDES EQUIPMENT, SUCH AS COMPRESSOR, CONDENSER, PUMPS, VALVES, ONLY
	NEW BLDG		TON	\$3,397.00	
	EXISTING BLDG		TON	\$4,752.00	

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CATEGORY CODE	ITEM	QUANTITY	UNIT of MEASURE	UNIT COST	REMARK
				\$/UNIT	
83140	INDUSTRIAL WASTE TREATMENT PLANT		EA	\$1,831,470.00	500,000 GPD , TREATMENT EQUIPMENT ONLY, DOES NOT INCLUDE A BUILDING TO HOUSE THE EQUIPMENT
83150	SEWAGE LIFT STATION		EA	\$210,970.00	1,000 GPM; EQUIPMENT ONLY, DOES NOT INCLUDE A BUILDING TO HOUSE THE EQUIPMENT
83210	SANITARY SEWER				SEE CHART A
83210	SANITARY SEWER MANHOLES: CONCRETE E, CAST-IN-PLACE				MANHOLE, 4 FT ID, INCLUDES FOOTING, EXCAVATION & BACKFILL, 24" DIA COVER & FRAME
	UP TO 8' DEEP		VLF	\$571.00	
	OVER 8' DEEP		VLF	\$611.00	
	CONCRETE, PRECAST:				
	UP TO 8' DEEP		VLF	\$394.00	
	OVER 8' DEEP		VLF	\$433.00	
832XX	MISC:				
	CATCH BASINS		EA	\$2,626.00	4 FT DEEP
	CATCH BASINS		EA	\$3,048.00	6 FT DEEP
	CURB INLETS		EA	\$619.00	GUTTERMOUTH
83310	INCINERATOR		EA	\$50,080.00	200 LB PER HR PER UNIT (EQUIPMENT ONLY, BUILDING NOT INCLUDED)
84210	WATER DISTRIBUTION LINES				SEE CHART A
84472	WATER PUMP STATION, NONPOTABLE				
	500 GPM		EA	\$76,770.00	
	1,000 GPM		EA	\$101,910.00	
	2,000 GPM		EA	\$114,590.00	
	2,500 GPM		EA	\$117,980.00	EQUIPMENT ONLY, INCLUDES PUMPS, VALVES, AUTO CONTROLS, FILLINGS & ACCESSORIES, COMPLETE W/ INSTALLATION COSTS, DOES NOT INCLUDE A BUILDING TO HOUSE THE EQUIPMENT
84610	WATER STORAGE TANK				
	ELEVATED WATER STG TANK				
	50,000 GA		EA	\$382,720.00	
	100,000 GA		EA	\$480,100.00	
	150,000 GA		EA	\$575,220.00	
	250,000 GA		EA	\$662,400.00	
	500,000 GA		EA	\$1,065,490.00	
	750,000 GA		EA	\$1,471,880.00	
	1,000,000 GA		EA	\$1,870,660.00	INCLUDES STEEL STORAGE TANK STANDPIPE, 125 FEET HIGH TOWER, VALVES AND STD FOUNDATIONS, BUT DOES NOT INCLUDE PUMPHOUSE BUILDING
84610	GROUND STORAGE TANK (WATER)				
	100,000 GA		EA	\$264,990.00	
	250,000 GA		EA	\$439,330.00	
	500,000 GA		EA	\$541,210.00	
	1,000,000 GA		EA	\$726,920.00	
	2,000,000 GA		EA	\$1,047,350.00	
	4,000,000 GA		EA	\$1,656,700.00	INCLUDES CONCRETE TANK AND STD FOUNDATIONS, BUT DOES NOT INCLUDE EXTERNAL PIPING AND PUMPING
84620	RESERVOIR, POTABLE				
	250,000 GA		EA	\$427,980.00	INCLUDES 6" CONCRETE FLOOR SLAB, ORDINARY EXCAVATION AND PUMPING WITHIN
	500,000 GA		EA	\$570,720.00	

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CATEGORY CODE	ITEM	QUANTITY	UNIT of MEASURE	UNIT COST \$/UNIT	REMARK
	RESERVOIR, POTABLE (Continued from the previous page)				INCLUDES 6" CONCRETE FLOOR SLAB, ORDINARY EXCAVATION AND PUMPING WITHIN
	1,000,000 GA		EA	\$788,040.00	
	2,000,000 GA		EA	\$1,211,350.00	
	4,000,000 GA		EA	\$1,990,720.00	
851XX	ROADS/ PAVEMENTS				INCLUDE DRIVEWAYS, EXCLUDES VEHICLE PARKING. EARTHWORK (CUT & FILL, CATCODE 93410, COST NOT INCLUDED)
	ASPHALT CONCRETE (A/C) SURFACE				
	1-1/2"		SY	\$5.20	
	2"		SY	\$6.80	FOR PAVEMENT ONLY, A/C SURFACE, URBAN AREA
	3"		SY	\$9.90	
	CONCRETE SURFACE - NON REINFORCED				
	6"		SY	\$32.00	
	8"		SY	\$44.00	12 FEET PASS FIXED FORM, JOINTS, FINISHING, CURING, URBAN AREA
	10"		SY	\$51.00	
	12"		SY	\$59.00	
	BASE COURSE (CRUSHED STONES), THICKNESS:				
	4"		SY	\$7.10	
	6" S		Y	\$10.00	INCLUDES MATERIAL, EQUIPMENT & COMPACTION
	8"		SY	\$13.00	
	12"		SY	\$20.00	
	BASE COURSE (BANK RUN GRAVEL), THICKNESS:				INCLUDES MATERIAL, TRANSPORT & PLACEMENT
	6"		SY	\$5.50	
	9"		SY	\$8.20	
	12"		SY	\$11.00	
	BASE COURSE (BITUM. CONCRETE) THICKNESS:				
	4"		SY	\$12.00	
	6"		SY	\$18.00	
	8"		SY	\$23.00	
	10"		SY	\$30.00	
	6" x 8" CURB/GUTTER (CONCRETE)		LF	\$17.00	INCLUDES CURB & GUTTER AND STEEL FORMS
852XX	SIDEWALK & OTHER PAVEMENTS				INCLUDES VEHICLE PARKING AREAS, PEDESTRIAN WALKWAYS, ETC. SEE CATCODE 851XX FOR DRIVEWAYS & ROADS
85220	SIDEWALKS & WALKWAYS				
	4" CONCRETE CAST IN PLACE, NO BASE		SF	\$4.50	INCLUDES GRADING & FORMING
	2-1/2" ASPHALT CONCRETE		SF	\$2.10	
86010	RAILROAD TRACKS W/TIES AND BALLAST		LF	\$323.20	STANDARD GAUGE RAILROAD, STEEL TIES IN CONC W/ 100# RAIL, FASTNERS & PLATES COMPLETE. PARALLEL TRACKS COUNTED SEPARATELY
87110	STORM SEWER		LF		SEE CHART A
87210	FENCING & WALLS				
	CHAIN LINK:				9 GAUGE GALVANIZED STEEL
	6 FT HIGH		LF	\$20.00	TYPE A (9 GA) INCLUDES 3 STRAND BARBED WIRE

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CATEGORY CODE	ITEM	QUANTITY	UNIT of MEASURE	UNIT COST \$/UNIT	REMARK
87210	FENCING & WALLS - CHAIN LINK (Continued from the previous page)				9 GAUGE GALVANIZED STEEL
	8 FT HIGH		LF	\$24.00	TYPE A (9 GA) INCLUDES 3 STRAND BARBED WIRE
	10 FT HIGH		LF	\$29.00	
87250	ENTRANCE GATES				
	4' WIDE, SINGLE SWING, 6' HIGH W/ GATE POSTS		EA	\$328.00	
	12' WIDE, SINGLE SWING, 6' HIGH W/ GATE POSTS		EA	\$904.00	FOR MOTOR OPERATED (SWING) ADD \$2,000
	24' WIDE, SWING GATE - DOUBLE, 6' HIGH		EA	\$1,580.00	FOR MOTOR OPERATED (SWING) ADD \$3,150
	36' WIDE, SLIDING GATE - DOUBLE, 8' HIGH		EA	\$2,174.00	FOR MOTOR OPERATED (SLIDE) ADD \$4,410
88110	AUTOMATIC WATER SPRINKLER SYSTEMS (2,000 SF, PROTECTED AREA ONLY, INCL GATE VALVE)				
	WET PIPE		SF	\$4.30	PROTECTED AREA ONLY
	DRY PIPE		SF	\$4.80	PROTECTED AREA ONLY
	DELUGE		SF	\$6.40	PROTECTED AREA ONLY, EXCLUDES DELUGE VALVE, PUMPING ELEVATED WATER STG, & EXTERIOR PIPING
89240	FIRE HYDRANTS, STANDARD 6' DEPTH		EA	\$3,239.00	INCL EXCAVATION & BACKFILL, 4-1/2" CUTOFF VALVE, PIPING & CONNECTION TO MAIN LINE
93210	SITE CLEARING & GRADING				
	SITE CLEARING & GRUBBING		AC	\$4,209.00	CLEAR & GRUB MEDIUM WOODED AREA, GRUB & REMOVE STUMPS & HAUL
	SITE CLEARING, MEDIUM		SY	\$0.60	SUNDRY SURFACE ITEM CLEARING EXCL. WOODS & PAVING
	GRADING:				
	ROUGH - LARGE OPEN AREA		SY \$2.	70	AVG 2' C/F, SPREAD DUMP FILL, NO COMPACTION
	FINE		SY \$1.	40	3 PASSES WITH DOZER, COMPACTION
	BORROW, UNCLASSIFIED MATERIAL		CY	\$18.00	BUY, LOAD AT PIT, UPTO 5-MILE RT HAUL, & SPREAD W/ DOZER
93220	LANDSCAPE AND PLANTING				
	TOPSOIL:				
	HAUL & SPREAD		CY	\$21.00	INCLUDES MATERIAL, TRANSPORT & PLACEMENT
	STRIP/STOCKPILE		SY	\$1.60	6" DEEP
93220	LANDSCAPE AND PLANTING				
	MULCHING:				
	WOOD CHIPS		SY	\$2.70	2" DEEP
	GRASS:				
	SEEDING		SY	\$0.80	HYD W/FERTILIZER
	SODDING		SY	\$6.90	1" DEEP BLUE GRASS
93310	DEMOLITION W/ DISPOSAL				
	BUILDING: 10,000 SF, 10' EAVE HEIGHT, 25 MILES HAUL, NO DISPOSAL (DUMP) FEE INCLUDED. RECYCLE WILL REDUCE DISPOSAL COST:				NOTE: ASBESTOS REMOVAL/DISPOSAL NOT INCLUDED. COST ESTIMATE FOR THIS WORK ITEM SHOULD BE BASED ON SITE SURVEY/EVALUATION AND LOCAL EXPERIENCE, AND SEPARATELY IDENTIFIED.
	CONCRETE STRUCTURE		PER BLDG SF	\$5.60	FOUNDATION REMOVAL OR VALUE OF RECOVERED CONCRETE AGGREGATE FOR USE AS ENGINEERED BACKFILL NOT INCLUDED
	STEEL FRAME BUILDING		PER BLDG SF	\$4.30	FOUNDATION REMOVAL OR SALVAGE VALUE CREDIT FOR STEEL MEMBERS AND STEEL SCRAP NOT INCLUDED
	MASONRY BLDG		PER BLDG SF	\$4.80	FOR SIMPLE CONCRETE BLOCK CONSTRUCTION, FOUNDATION REMOVAL COST NOT INCLUDED

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93310	DEMOLITION W/ DISPOSAL (Continued from the previous page)				
	WOOD FRAME		PER BLDG SF	\$3.60	FOR POST AND BEAM OR STUD WALL
	CONCRETE SLAB 6" THICK		SF	\$2.30	6 INCH THICK WITH TURNED DOWN FOOTING
	BUILDING INTERIOR		SF		NOT REQUIRED FOR CONVENTIONAL DEMOLITION
	LEAD BASED PAINT (LPB) REMOVAL/DISPOSAL		N/A	\$0.00	
	NOTE: LPB IS NOT REQUIRED TO BE ABATED PRIOR TO OR AS A PART OF THE BLDG DEMOLITION, UNLESS SPECIFICALLY REQUIRED IN COMPLIANCE WITH EM 385-1-1. UNLESS OTHERWISE RESTRICTED, MATERIALS COATED W/ LBP MAY BE PLACES IN THE INSTALLATION LANDFILL.				
	CONCRETE PAVEMENT, UPTO 4" THICK		SY	\$16.00	1.32/SF, INCLUDES 2" GRAVEL
	BITUMINOUS PAVEMENT, 2" THICK		SY	15.00	\$1.25/SF, INCLUDES 2" GRAVEL
93410	CUT AND FILL				
	EARTH:				
	CUT & FILL, 200 HP DOZER, 300 FT HAUL		CY	\$8.20	COMMON EARTH FILL & SPREAD
	EXCAVATION, BULK DOZER		CY	\$8.80	COMMON EARTH, HAULING 2 MILE ROUND TRIP
	EXCAVATION, TRENCH-MACHINE		CY	\$6.00	4 FT DEEP, 2 FT WIDE, MEDIUM SOIL
	EXCAVATION TRENCH-HAND		CY	\$46.00	2 TO 6 FT DEEP, MEDIUM SOIL
	BACKFILL-MACHINE		CY	\$7.00	INCLUDES COMPACTION
	BACKFILL-HAND		CY	\$34.00	INCLUDES COMPACTION
	ROCK:				
	EXCAVATION ROCK, HARD		CY	\$89.00	DRILL BLAST BY MACHINE
	EXCAVATION SHALE, MEDIUM		CY	\$48.00	RIPPER DOZER AND LOAD
	EXCAVATION ROCK TRENCH-HAND		CY	\$150.00	BY HAND /AIR TOOL
88040	AT/FP VEHICULAR BARRICADES				
	Barrier Standards				
	SD-STD-02.01 specifies perpendicular barrier impact by a 15,000 lb. (6810 kg) vehicle "K" indicates the Dept of State certified barrier's maximum vehicle impact speed rating "L" indicates the test vehicle's distance of penetration upon impact with barrier				
	K12 = 50 mph (880 kph) K8 = 40 mph (65 kph) K4 = 30 mph (48 kph)				L3 = 3 ft. (915 mm) L2 = 3 ft. to 20 ft. (915 mm to 6.1 m) L1 = 20 ft. to 50 ft. (6.1 m to 15.3 m)
	Note: Electrical connection costs are only included up to five feet from the unit. Additional electrical power requirements to be added separately. All active fixed barriers with a remote control panel include costs for barrier installation, safety loop				
	PORTABLE BEAM BARRICADE		EA	\$25,610.00	RATED K4/L2, NO FDN REQUIRED, MOVE WITH FORKLIFT, STOPS 15,000 LB VEHICLE AT 30 MPH
	PORTABLE HYDRAULIC BARRICADE		EA	\$35,850.00	TRANSPORTABLE RISING ROAD PLATE BARRICADE, SET UP WITH FORKLIFT, STOPS 15,000 LB VEHICLE AT 30 MPH
	PORTABLE HEDGEHOG BARRICADE		EA	\$3,073.00	BARRICADE MADE OF PAINTED STRUCTURAL STEEL, REMOVABLE PNEUMATIC TIRES AND TOW BAR, 12' LONG
	WEDGE BARRICADE		EA	\$55,740.00	24" HIGH, 9' LONG, REMOTE CONTROL PANEL
	WEDGE BARRICADE		EA	\$61,450.00	K4/L2 RATED, 30" HIGH, 9' LONG, REMOTE CONTROL PANEL, STOPS 15,000 LB VEHICLE AT 30 MPH
	HYDRAULIC RISING ROAD PLATE		EA	\$56,320.00	PLATE RISES TO 18" HIGH, SURFACE MOUNTED, 12' LENGTH, REMOTE CONTROL PANEL, STOPS 15,000 LB VEHICLE AT 63 MPH

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<u>CATEGORY</u>	<u>ITEM</u>	<u>QUANTITY</u>	<u>UNIT of MEASURE</u>	<u>UNIT COST</u>	<u>REMARK</u>
<u>CODE</u>				<u>\$/UNIT</u>	
88040	AT/FP VEHICULAR BARRICADES				
	HYDRAULIC WEDGE		EA	\$71,690.00	K12/L2 RATED, 9' WIDE X 3'-2" HIGH, STOPS VEHICLE AT 50 MPH, ZERO PENETRATION
	HYDRAULIC RISING ROAD PLATE		EA	\$40,970.00	PLATE RISES TO 18" HIGH, SURFACE MOUNTED, 10' LENGTH, 1" THICK STEEL PLATE, STOPS 6,000 LB VEHICLE AT 40 MPH
	HYDRAULIC RISING ROAD PLATE		EA	\$61,450.00	K12/L2 RATED, PLATE RISES TO 39" HIGH, SURFACE MOUNTED, REMOTE CONTROL PANEL, STOPS 15,000 LB VEHICLE AT 70 MPH
	RISING ROAD PLATE		EA	\$56,320.00	K12/L2 RATED, PLATE RISES TO 18" HIGH, SURFACE MOUNTED, REMOTE CONTROL PANEL, STOPS 15,000 LB VEHICLE AT 63 MPH
	RISING ROAD PLATE		EA	\$58,380.00	K12/L2 RATED, PLATE RISES TO 39" HIGH, SHALLOW FOUNDATION TO 18" DEPTH, 9' LENGTH, STOPS 15,000 LB VEHICLE AT 50 MPH
	POP-UP BOLLARD SYSTEM		EA	\$51,340.00	K4/L2 RATED, HYDRAULIC OR PNEUMATIC, SET OF THREE BOLLARDS, 13.25" DIA, 35" HIGH
	POP-UP BOLLARD SYSTEM		EA	\$53,390.00	K12/L2 RATED, HYDRAULIC, REMOTE CONTROL PANEL, 35" HIGH, 15.25" DIA, STOP-GO SIGNAL ARMS AND LIGHTS, SUMP PUMPS, STOPS 15,000 LB VEHICLE AT 50 MPH, ADD \$10,000 FOR EACH ADDL BOLLARD UP TO FIVE ADDL
	POP-UP BOLLARD SYSTEM		EA	\$51,340.00	HYDRAULIC, SET OF THREE BOLLARDS, 8.63" DIA, 24" HIGH, REMOTE CONTROL PANEL, ADD \$5,000 FOR EACH ADDL BOLLARD UP TO SEVEN ADDL
	POP-UP BOLLARD SYSTEM		EA	\$66,730.00	K4/L2 RATED, HYDRAULIC, SET OF THREE BOLLARDS, 13.25" DIA, 35" HIGH, REMOTE CONTROL PANEL, STOP-GO SIGNAL ARMS AND LIGHTS, SUMP PUMPS, STOPS 15,000 LB VEHICLE AT 30 MPH
	POP-UP BOLLARD SYSTEM		EA	\$61,610.00	K8/L2 RATED, HYDRAULIC, SET OF THREE BOLLARDS, 12.25" DIA, 35" HIGH, REMOTE CONTROL PANEL, STOP-GO SIGNAL ARMS AND LIGHTS, SUMP PUMPS, STOPS 15,000 LB VEHICLE AT 40 MPH
88040	AT/FP VEHICULAR BARRICADES (Contd. From the previous page)				
	MANUAL POP-UP BOLLARD SYSTEM		EA	\$5,134.00	K4/L2 RATED, COUNTER BALANCED MANUAL LIFT, 10.75" DIA, 30" HIGH
	MANUAL POP-UP BOLLARD SYSTEM		EA	\$4,107.00	24" HIGH, STOPS 10,000 LB VEHICLE AT 48 MPH AND STOPS 13,200 LB VEHICLE AT 38 MPH
	CRASH BEAM BARRICADE		EA	\$46,200.00	K4/L2 RATED, HYDRAULIC, CONCRETE BOLLARD MOUNTED, REMOTE CONTROL PANEL, STOPS 15,000 LB VEHICLE AT 30 MPH
	CRASH CABLE BEAM BARRICADE SWING GATE, MANUALLY OPERATED		EA	\$12,320.00	K4/L2 RATED, MANUAL HORIZONTAL SWING CRASH BEAM BARRIER, CONCRETE BOLLARD MOUNTED, STOPS 10,000 LB VEHICLE AT 15 MPH
	CABLE BEAM BARRICADE, HYDRAULIC		EA	\$41,070.00	K4/L2 RATED, HYDRAULIC, CONCRETE BOLLARD MOUNTED, STOPS 10,000 LB VEHICLE AT 15 MPH
	CRASH BEAM BARRICADE, HYDRAULIC		EA	\$51,340.00	K4/L2 RATED, HYDRAULIC, CONCRETE BOLLARD MOUNTED, STOPS 15,000 LB VEHICLE AT 30 MPH
	SLIDING LINEAR CRASH GATE		EA	\$63,660.00	K4/L2 RATED, 9' HIGH x 12' WIDE CLEAR OPENING GATE WITH GROUND TRACK, LINEAR GATE OPERATOR, REMOTE CONTROL PANEL, STOP-GO SIGNAL LIGHTS, STOPS 15,000 LB VEHICLE AT 50 MPH
	MANUAL CRASH SWING GATE		EA	\$15,400.00	9' HIGH x 12' WIDE CLEAR OPENING GATE
	HYDRAULIC ROLLING CRASH GATE		EA	\$49,290.00	9' HIGH x 12' WIDE CLEAR OPENING GATE, GATE LEAF LINEAR SLIDE ASSEMBLY, DRIVE SIDE GATE LEAF SUPPORTS AND GUIDES, LINEAR GATE OPERATOR, HYDRAULIC PUMP DRIVEN RACK AND PINION OPERATOR, REMOTE CONTROL PANEL, STOP-GO SIGNAL LIGHTS
	SLIDING CANTILEVER CRASH GATE		EA	\$54,420.00	9' HIGH x 12' WIDE CLEAR OPENING GATE, GATE LEAF LINEAR SLIDE ASSEMBLY, DRIVE SIDE GATE LEAF SUPPORTS AND GUIDES, LINEAR GATE OPERATOR, HYDRAULIC PUMP DRIVEN RACK AND PINION OPERATOR, REMOTE CONTROL PANEL, STOP-GO SIGNAL LIGHTS.
	PASSIVE VEHICLE BARRIER, SURFACE MOUNTED SABRE TOOTH CONTROLLER		EA	\$616.00	SURFACE MOUNTED TIRE SPIKES, 3' WIDE, MANUALLY OPERATED

UNIT COSTS for ARMY FACILITIES
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CHART A To Appendix A, Part II PIPING - SITEWORK UTILITIES (Catcodes 82410, 83210, 84210 87110)								
SIZE in INCHES	UNIT	BLACK STEEL U/C 2011	Notes	SIZE in INCHES	UNIT	PVC U/C 2011		
1	LF	\$12.70	BLACK STEEL, SCHEDULE 40, WELDED	1	LF	\$6.70		
2	LF	\$18.40		2	LF	\$10.20		
3	LF	\$22.80		3	LF	\$13.40		
4	LF	\$28.00		4	LF	\$20.30		
6	LF	\$34.50		6	LF	\$26.40		
10	LF	\$75.30		10	LF	\$33.20		
12	LF	\$107.60						
18	LF	\$141.90						
24	LF	\$240.80						
SIZE in INCHES	UNIT	CORRUGATED METAL U/C 2011		SIZE in INCHES	UNIT	HDPE U/C 2011		
			CORRUGATED METAL PIPING	4	LF	\$8.50		
6	LF	\$11.60		6	LF	\$14.30		
10	LF	\$18.00		10	LF	\$20.70		
12	LF	\$21.40		12	LF	\$30.90		
18	LF	\$30.20		18	LF	\$52.20		
24	LF	\$50.30		24	LF	\$85.20		
36	LF	\$83.10						
60	LF	\$210.40						
SIZE in INCHES	UNIT	DUCTILE IRON U/C 2011		SIZE in INCHES	UNIT	CONCRETE 2011		
			DUCTILE IRON PIPING			PLAIN	REINF	
4	LF	\$21.30						
6	LF	\$24.30						
10	LF	\$42.70						
12	LF	\$54.40			6	LF	\$16.20	
18	LF	\$95.40			10	LF	\$18.90	
24	LF	\$128.40			12	LF	\$21.00	\$27.20
					18	LF	\$33.30	\$38.50
					24	LF	\$38.50	\$49.80
					36	LF		\$126.80
				60	LF		\$197.70	
SIZE in INCHES	UNIT	REINFORCED PLASTIC U/C		SIZE in INCHES	UNIT	STANDARD VITRIFIED CLAY PIPE STRENGTH	STD CLAY PIPE STRENGTH	
			REINFORCED PLASTIC PIPING					
3	LF	\$11.00						
4	LF	\$19.80						
6	LF	\$24.20			4	LF	\$8.10	\$9.30
10	LF	\$55.00			6	LF	\$11.30	\$12.40
12	LF	\$67.40			10	LF	\$19.90	\$23.10
					12	LF	\$23.70	\$26.20
					18	LF	\$51.60	\$62.90
				24	LF	\$105.20	\$125.30	
				36	LF	\$214.50	\$238.90	

NOTES:

1. Corrugated metal piping, galvanized 16 gage upto 18", 14 gage for 24", and 12 gage upto 60"
2. Ductile iron, cement lined, class 50 water pipe, 18" in length, and mechanical joint
3. Reinforced plastic, fiberglass reinforced, plain end pipe
4. PVC, schedule 40, class 150 pipe
5. Cost includes furnishing and installing pipes only; trenching, bedding, backfilling & compaction must be added
6. For cathodic protection, if required, add 14% of total piping cost

UNIT COSTS for ARMY FACILITIES
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CHART C. METRIC/ENGLISH SYSTEMS

QUANTITY	FROM		MULTIPLY BY	TO OBTAIN
LENGTH	inch		25.400000	millimeter
	foot		0.304800	meter
	yard		0.914400	meter
	mile (U.S. Status)		1.609344	kilometer
	millimeter		0.039370	inch
	meter		3.280840	foot
	meter		1.093613	yard
	kilometer		0.621370	mile
AREA	square inch		645.160300	square millimeter
	square foot		0.092903	square meter
	square yard		0.836127	square meter
	square mile		2.589998	square kilometer
	acre		4046.873000	square meter
	acre		0.404687	hectare
	square millimeter		0.001550	square inch
	square meter		10.763910	square foot
	square meter		1.195990	square yard
	square kilometer		0.386101	square mile
	square meter		0.000247	acre
	hectare		2.471044	acre
VOLUME	cubic inch		16387.060000	cubic millimeter
	cubic foot		0.028316	cubic meter
	cubic yard		0.764555	cubic meter
	gallon (U.S. liquid)		3.785412	liter
	quart (U.S. liquid)		0.946353	liter
	cubic millimeter		0.000061	cubic inch
	cubic meter		35.314662	cubic foot
	cubic meter		1.307951	cubic yard
	liter		0.264172	gallon
	liter		1.056688	quart
	MASS	ounce (avoirdupois)		28.349520
pound (avoirdupois)			0.453592	kilogram
short ton			907.185000	kilogram
gram			0.035273	ounce
kilogram			2.204622	pound
kilogram			0.001102	short ton
ENERGY -				
HEAT & WORK	kilowatthour		3.600000	megajoule
	btu		1.055056	kilojoule
	horsepower hour		2.684520	megajoule
	megajoule		0.277780	kilowatthour
	kilojoule		0.947817	btu
	megajoule		0.372506	horsepower hour
POWER	ton (refrigeration)		3.517000	kw
	btu/s		1.055056	kw
	hp (electric)		745.700000	w
	btu/h		0.293071	w
	kw		0.284333	ton (refrigeration)
	kw		0.947817	btu/s
	w		0.001341	hp (electric)
w		3.412141	btu/h	

APPENDIX C To TM 5-800-4 (UFC 3-700- 01), PAX Newsletter 3.2.2, dated 4 Jan 2011
TRI-SERVICE MILITARY CONSTRUCTION PROGRAM (MCP) INDEX FOR FY 2011-17 PROGRAMS
Based on FY 2012 President's Budget Inflation Guidance, Dated 14 Dec 2010

<u>FISCAL YEAR (FY)</u>	<u>DATES</u>	<u>INDEX</u>	<u>ESCALATION PERCENTAGE FOR FISCAL YEAR</u>
FY 2009	1-Oct- 2008 -----	2454	-----FY09
	1-Jan- 2009 -----	2462	
	1-Apr- 2009 -----	2469	
	1-Jul- 2009 -----	2476	
FY 2010	1-Oct- 2009 -----	2483	-----FY10 (1.2%)
	1-Jan- 2010 -----	2493	
	1-Apr- 2010 -----	2502	
	1-Jul- 2010 -----	2511	
FY 2011	1-Oct- 2010 -----	2520	-----FY11 (1.5%)
	1-Jan- 2011 -----	2530	
	1-Apr- 2011 -----	2540	
	1-Jul- 2011 -----	2550	
FY 2012	1-Oct- 2011 -----	2560	-----FY12 (1.6%)
	1-Jan- 2012 -----	2571	
	1-Apr- 2012 -----	2582	
	1-Jul- 2012 -----	2593	
FY 2013	1-Oct- 2012 -----	2604	-----FY13 (1.7%)
	1-Jan- 2013 -----	2615	
	1-Apr- 2013 -----	2626	
	1-Jul- 2013 -----	2637	
FY 2014	1-Oct- 2013 -----	2648	-----FY14 (1.7%)
	1-Jan- 2014 -----	2660	
	1-Apr- 2014 -----	2672	
	1-Jul- 2014 -----	2684	
FY 2015	1-Oct- 2014 -----	2696	-----FY15 (1.8%)
	1-Jan- 2015 -----	2709	
	1-Apr- 2015 -----	2721	
	1-Jul- 2015 -----	2733	
FY 2016	1-Oct- 2015 -----	2745	-----FY16 (1.8%)
	1-Jan- 2016 -----	2758	
	1-Apr- 2016 -----	2770	
	1-Jul- 2016 -----	2782	
FY 2017	1-Oct- 2016 -----	2794	-----FY17 (1.8%)

Notes

1. Use **1.8%** per fiscal year for projection beyond FY **2017**
2. Tri - Service MCP Index (1,000) = 1 October 1979 ENR Historical Building Cost Index (1,900)
3. The MCP indexes after 1 Oct 2010 were derived using the Price Escalation Indices (Annual Rates in Percentages) for Budget Authority published in the 14 Dec 2010 Inflation Guidance - Fiscal Year (FY) 2012 President's Budget.
4. This revised index table supersedes the MCP index table published as Appendix-C to PAX Newsletter 3.2.2, dated **15 Sep 2010**

UNIT COSTS for ARMY FACILITIES
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TABLE I - SIZE ADJUSTMENT FACTORS

PART I - BUILDING (OTHER THAN BARRACKS & FAMILY HOUSING)

SIZE RATIO	ADJUST FACTOR
< 0.05	1.2750
0.0500	1.2750
0.1000	1.2690
0.1500	1.2320
0.2000	1.2020
0.2500	1.1750
0.3000	1.1520
0.3500	1.1320
0.4000	1.1140
0.4500	1.0980
0.5000	1.0840
0.5500	1.0720
0.6000	1.0600
0.6500	1.0500
0.7000	1.0410
0.7500	1.0330
0.8000	1.0250
0.8500	1.0180

SIZE RATIO	ADJUST FACTOR
0.9000	1.0110
0.9500	1.0050
1.0000	1.0000
1.0500	0.9950
1.1000	0.9900
1.1500	0.9860
1.2000	0.9820
1.2500	0.9780
1.3000	0.9740
1.3500	0.9710
1.4000	0.9680
1.4500	0.9650
1.5000	0.9620
1.5500	0.9600
1.6000	0.9570
1.6500	0.9550
1.7000	0.9530
1.7500	0.9510

SIZE RATIO	ADJUST FACTOR
1.8000	0.9490
1.8500	0.9470
1.9000	0.9450
1.9500	0.9430
2.0000	0.9420
2.0500	0.9400
2.1000	0.9390
2.1500	0.9370
2.2000	0.9360
2.2500	0.9350
2.3000	0.9330
2.3500	0.9320
2.4000	0.9310
2.4500	0.9300
2.5000	0.9290
2.5500	0.9280
2.6000	0.9270
2.6500	0.9260

SIZE RATIO	ADJUST FACTOR
2.7000	0.9250
2.7500	0.9240
2.8000	0.9240
2.8500	0.9230
2.9000	0.9220
2.9500	0.9210
3.0000	0.9210
3.0500	0.9200
>3.05	0.9200

NOTE: Size ratio is determined by dividing the proposed building size by the average size shown in Part I of Appendix A. To determine the size adjustment factor, use the closest size ratio from above table.

PART II - PROJECT SIZE ADJUSTMENTS FOR BARRACKS/FAMILY HOUSING

MILITARY FAMILY HOUSING PROJECT SIZE ADJUSTMENT FACTORS		BARRACKS/ DORMITORIES PROJECT SIZE ADJUSTMENT FACTORS	
NUMBER OF UNITS in the project	PROJECT SIZE FACTOR	NUMBER OF ROOMS in the project	PROJECT SIZE FACTOR
1-9	1.25	1-99	1.07
10-19	1.15	100-149	1.03
20-49	1.10	150-199	1.00
50-99	1.04	200-299	0.97
100-199	1.00	300+	0.95
200-299	0.93		
300+	0.90		