

Part I and II (Building and Support Facilities)

This Newsletter Supersedes the Army Facilities Pricing Guide, PAX Newsletter No. 3.2.2, revision dated 30 Sept 2015, and updates Primary & Support Facilities Unit Cost Tables, Tri-Service Military Construction Program (MCP) Index, and Table-1, Size Adjustment Factors. These costs will be used as a guide for preparation and/or review of Budget Submission of the FY18 Army Military Construction (MCA) and Army Family Housing (AFH) projects' parametric cost estimates and ENG3086s unless otherwise noted. These facility unit costs may not be directly applicable for those facilities that consist of unique requirements. This Newsletter is published and maintained on the web page at: <http://www.usace.army.mil/CostEngineering/ProgrammingAdministrationandExecutionSystemNe.aspx>

A. PART-I – PRIMARY FACILITIES UNIT COSTS, dated 16 May 2016

A.1. The Unit Costs in Part-1 Table represent the dollar per square foot cost as of 1 October 2018 for various CONUS Army facility types (to include projects from Alaska and Hawaii) that were awarded between FY 2013-15 and at least 3 projects per building type were entered into the Historic Analysis Generator (HII) database by 15 Nov 2015. When less than three (3) recent projects were awarded and entered into the HII database between 2013-2015 for a specific facility type (CatCode), then the last four (4) years (2012-2015) projects' data were considered. Only new construction projects located within the Continental United States (CONUS), to include projects in Hawaii and Alaska, were utilized to develop facility specific unit costs, except for Army Family Housing and DoD Schools where OCONUS projects were also considered. Addition-alteration projects, less than 25% of the Standard Reference Size for that facility type, were not included in the database.

A.2. Methodology and Escalation Factor: Facility-specific bid data were normalized to the average number of bidders for that specific facility type, Area Cost Factor of 1.0, Reference size for that facility type, and 1 Oct 2015 price level using the actual construction inflation index. Unit Costs in the PAX Newsletter Table are escalated to 1 Oct 2018, the assumed mid-point of construction for a typical FY 2018 MILCON project using Appendix-C, Military Construction Program (MCP) Index. Appendix-C, MCP Index should be used for determining Cost Escalation Factor when a project's mid-point of construction is different than 1 Oct 2018, as shown in the following example for a project with a mid-point of 1 April 2019:

Anticipated Midpoint of Construction for a given project = 1 April 2019
MCP Indexes for 1 Oct 2018 and 1 Apr 2019 from Appendix-C, are 2930 and 2960 respectively
Cost Escalation Factor = 1 Apr 2019 MCP Index / 1 Oct 2018 MCP Index = 2960/2930 = 1.0102

A.3. Facilities with PAX Newsletter guidance unit costs are assumed to include the costs of the following features/requirements. Therefore NO Separate Line Item(s) shall be added for the following features:

- a. Minimum antiterrorism design features inside the building, when minimum set back/stand-off distance is achieved.
- b. Progressive Collapse premiums for specific facility types that are normally designed with 3 or more stories, such as Inpatient Hospitals/Medical Centers, Primary Care Clinic (attached), Major Command Headquarters, Barracks/Trainee Barracks, etc.

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- c. Building Information Systems (e.g. conduits, racks, trays, telecommunication rooms) for facilities without any Special Communications Requirements.
- d. Energy Management Control System (EMCS) Connections.
- e. Intrusion Detection System (IDS) infrastructure, to include conduits, racks and trays.
- f. Sustainable Design and Development features for criteria in effect from September 2007 thru September 2012 (e.g. LEED Silver Rating, Energy Policy Act of 2005).
- g. Built-in Equipment and furnishings normally funded by MILCON funds,
- h. Standard uncomplicated foundation systems (e.g. Strip/Spread-footings, thickened edge slab for slab on grade). Any Special Foundations, such as Pile Foundations and Structural Fill cost should be listed separately.
- i. Contractor's mark-ups for overhead, and profit.
- j. An average sales tax on building materials.

A.4. PAX Guidance Unit costs do NOT generally include the following feature/requirement costs. Therefore, these costs are to be added as a Separate Line Item(s) in the budget estimate:

- a. Inside the building AT-FP features when minimum stand-off distance cannot be achieved or when enhanced AT-FP features are required due to the height of the building, such as for 3 or more storied buildings when the past designs did not require Progressive Collapse measures. Progressive Collapse premium for 3 or higher storied Standard Designs that have been previously built (e.g., barracks/dormitories) are assumed to be built-into the award data.
- b. Specialized/Secured Building Information System costs.
- c. Sustainable Design and Development features for criteria mandated since September 2012.
- d. Inside the building or Built-in Renewable and alternative Energy features (e.g. ground source heat pumps, roof mounted Solar Panels).
- e. Special Foundation cost (e.g. cost of pre-stressed concrete pile foundation or caissons).
- f. Special Architectural features to comply with the Historic Preservation Guidelines.
- g. Equipment acquired with non-MILCON fund sources (e.g., intrusion detection systems, pre-wired workstations).
- h. Construction Contingency and Supervision, Inspection, and Overhead (SIOH) allowances.
- i. Design-Build Contract Design Cost.
- j. State imposed Gross Receipt Taxes (also referred to as General Exercise Tax).
- k. Construction Cost Growth resulting from Unforeseen Site Conditions, Change Orders, Contract document Errors and/or omissions, or Unusual Market Conditions, such as extreme material or labor shortages at the project location.

A.5. User Generated Unit Costs (UGUC): User Generated Unit costs may be used when PAX UC is not available or when it is not completely applicable for the project. UGUC requires an explanation of how the unit cost was derived. When UGUC is used, NO adjustments for ACF, size adjustment, or escalation shall be made for all line items in the cost estimate that are based on UGUC. The ACF and Size Adjustment Factor shall set as 1 in PC-Cost/ENG3086 software.

A.6. Reference Size shown in Part-I, Table may or may not be identical to the size/sizes listed in the Center of Standardization (COS) websites, since, the average size of projects entered in HII is listed as the Reference size. Table-1, Size Adjustment Factor, which shows correlation between project size and construction cost, should be used to determine the appropriate project cost.

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B. PART-II – SUPPORT FACILITIES UNIT COSTS, dated 15 May 2016

B.1. Support Facilities unit costs are based upon National Average Davis Bacon wages and material pricing. The Area Cost Factor (ACF) for this database is 1.0. Support Facility unit costs should be adjusted for the project location only when guidance unit costs are used; when local cost data (user generated cost data) is used, no ACF adjustments should be made.

B.2. All pricing includes the installing contractor's Overhead and Profit (O&P). General Contractor's mark-up is not included. The installing contractor's O&P includes the following factors:

- a. Employees wage rate and fringe benefits
- b. Workmen's compensation insurance
- c. Social Security and Federal and State Unemployment taxes
- d. Contractor's Overhead (11%) and Profit (10%)
- e. Data incorporates an average 6% Sales Tax.

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Unit Costs for the ARMY Facilities - Military Construction Program (MILCON)
PAX Newsletter 3.2.2, 16 May 2016

PRIMARY FACILITIES UNIT COST (UC) TABLE (PART - I, BUILDINGS)					
Facility Unit Costs (UC) are average unit costs based on the most Recent 3-Year (2013-15) project awards per building type, when at least 3 Projects were entered into the HII database by 15 Nov 2015. All UC's are the average unit costs for new construction, <u>escalated to 1 Oct 2018</u> , the assumed Mid-point of Construction for a typical FY2018 MILCON project, using the Inflation Guidance (Interim) - FY2017 President's Budget, 12 Feb 2016 and Normalized to an Area Cost Factor of 1. Please refer to the "Notes" in the Remarks Column of Table.					
CAT CODE	Description	Facility Average or Standard Size	Unit Of Measure (UoM)	FY18 Unit Cost (\$ / UoM)	Remarks
					Note-1: No data or Not enough useable Army Bid Data since 2013 to forecast UC. Note-2: Last year's unit cost (UC) escalated 1 year. Not enough recent Army data to forecast UC. Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
13115	Information Systems Facility	XX	SF	XX	See Note-1. Insufficient cost recent data
	Houses majority of Garrison level Info Management & Info Tech services plus associated admin Support & shop spaces.				
13120	Communications Center	14,000	SF	384.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Hub facility for Internal & External Communications, commercial telephone feeds, and environmental control requirements; DSN switching equipment. No shielding included.				
13120	Remote Switching Unit (RSU)	2,800	SF	325.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
13131	Information Processing Center	19,000	SF	251.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Also called Data processing Ctr. Houses personnel & equipment for data-processing; special temp, humidity, environmental control requirements, raised floor and security measures.				
13181	Satellite Terminal Communications Facility	26,000	SF	377.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
13310	Air Traffic/ Flight Control Tower	7,600	SF	771.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
14110	Airfield Operations (Ops) Building	XX	SF	XX	See Note-1. Insufficient cost recent data
	Houses flight operations and Airfield HQ functions with or w/o Flight Control Tower.				
14112	Aviation Unit Ops Bldg at Airfield	16,000	SF	272.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Houses Aviation Unit HQ admin, training, and storage area.				
14113	Access Control Facility - Mission Trng Complex	XX	SF	XX	See Note-1. Insufficient cost recent data
14113	Access Control Facility (ACF) Complex (Reference Sizes are the Average size of reported projects in each CATCD)				
	Visitors Control Center	2,900	SF	375.00	Ref size & UC based on project data in HII. Published with 2 data points.
	Search Office/ Sentry Building	520	SF	562.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Gatehouse	840	SF	1,042.00	Ref size & UC based on project data in HII. Published with 2 data points.
	Guard booth (Also called Guardhouse)	110	SF	737.00	Ref size & UC based on project data in HII
	Search Area Canopy - Truck	XX	SF	XX	See Note-1. Insufficient cost recent data
14114	CIDC Field Operations Bldg	XX	SF	XX	See Note-1. Insufficient cost recent data
14126	Kennel Facilities	4,800	SF	391.00	Ref size & UC based on project data in HII
14129	Training Aid Spt Ctr for Range Complex	varies	SF	See Range	See Unit Cost for CC 14129 under Range Complex, below
14132	Ready Building-Airfield Arrival/Depart Control Fac	XX	SF	XX	See Note-1. Insufficient cost recent data
14161	Emergency Operations Ctr (EOC)	XX	SF	XX	See Note-1. Insufficient cost recent data
14162	Sensitive Compartmented Info Fac	3,700	SF	457.00	Ref size & UC based on project data in HII
	Note: SCIF SF cost for CONUS projects only. Contact Omaha Protective Design Center for guidance when programming OCONUS SCIF's.				
14165	Vehicle Maintenance Wash Facility: Consists of Wash Bays, Prewash Control, Pump House, Grit & Oil Chambers,				
	Control Bld for Vehicle Wash Rack	XX	SF	XX	See Note-1. Insufficient cost recent data
	Pump Bld for Vehicle Wash Rack	XX	SF	XX	See Note-1. Insufficient cost recent data

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	Gravity Oil & Grease Separator	XX	KG	XX	See Note-1. Insufficient cost recent data. Actual UoM is KG per Day
	Water & Grit Separator	XX	KG	XX	See Note-1. Insufficient cost recent data. Actual UoM is KG per Day
14179	Overhead Protection/Canopy - General	XX	SF	XX	see CC 14179 for Covered Hardstand (Canopy) under COF below
14182	Brigade (BDE) Headquarters Bldg	51,000	SF	248.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Use Size Adj Table-1, Part-1 to determine unit cost for other sizes (Small, Medium and X-Large) BDE HQs.				
14183	Battalion (BN) HQ Bldg w/Classrooms	19,000	SF	286.00	Ref size & UC based on project data in HII
	Use Size Adj Table-1, Part-1 to determine unit cost for other sizes (Small, Medium and X-Large) BN HQs.				
14184	BN HQ - Transient Training (ORTC)	11,000	SF	237.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
14185	COMPANY OPERATIONS FACILITY (COF)				COF Ref Size varies based on Admin & Readiness Module configuration
	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 (AM) and Readiness Modules (RM) are normally detached. RM storage space is fully conditioned and sprinklered for TA-50 Lockers and Arms Vault.				
	The cost of contractor furnished and installed TA 50 Lockers are included in the UC. Admin and Readiness Modules may be programmed separately in DD1391/ENG3086				
14185	Admin/Readiness - Integrated Module	59,000	SF	195.00	Ref size & UC based on project data in HII
14185	Admin Module (AM) - Detached	17,000	SF	242.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
14185	Readiness Module (RM) - Detached	30,000	SF	193.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
14179	Canopy for Covered Hardstand	4,000	SF	100.00	Ref size & UC based on project data in HII
	Includes the cost of Canopy, supporting posts and their foundation. Does not include the Hardstand (8" concrete pavement) cost.				
	COF Overhead Protection is a Pre-engineered Canopy w/lighting, power, and lightning protection over the equipment layout area.				
85210	COF Hardstand, 8" Concrete Pavement w/ 8"base	Varies	SY	82.00	This line item should be programmed under the Support Facilities Section of the ENG3086
14190	Command & Control Fac (C2F)	122,000	SF	320.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Division and Corps Level Command & Control Bld for a all service components. C2F Bld contains 3 distinct functional elements, Admin, Emergency Network Operation, and SCIF spaces. The costs of raised flooring, redundant electrical/mechanical systems, and secured access system are included.				
	C2F Bldg above Corps level is a non-standard facility.				
14190	Army Command (ACOM) Headquarters	138,000	SF	318.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.
14955	Wash Rack / Platform - Army Reserve Centers	1	EA	119,000.00	Use for 1001-1600 SF Wash Racks. Based on Army Reserve Center projects.
14960	Grease Rack - Low Pressure w/Wash Water Treatment	XX	EA	XX	See Note-1. Insufficient cost recent data
14962	Central Wash Facility, 16 Stations	1	EA	6,777,000.00	Published with 2 data points. Program with CATCD 83180, Oil & Grease Separator
14970	Bi -Level Loading Ramp, Army Reserve Centers	1	EA	79,673.00	See Note-2. For Army Reserve Centers
14970	Ammo Loading Dock for Range	XX	EA	XX	See CATCD 14970 under Range Complex, below
14970	Vehicle Instrumentation Dock, 900 SF	XX	EA	XX	See Note-1. Insufficient cost recent data

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CAT CODE	Description	Facility Average or Standard Size	Unit Of Measure (UoM)	FY18 Unit Cost (\$ / UoM)	Remarks
17120	General Instruction Bldg (GIB) - Not for Range	33,000	SF	289.00	Ref size & UC based on project data in HII
	<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.				
14113	Access Control Fac - Mission Trng Complex	340	SF	410.00	See Note-2. Formerly, Battle Control Trng Ctr. Ref size & UC esc from last year PAX.
14129	Training Aid/Support Center (TSC)	42,000	SF	160.00	See Note-2. Ref size & UC esc from last year's Training Aid/Support Ctr in PAX.
14970	Ammunition Loading Dock - Range	1	EA	63,200.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
14970	Loading Dock - Bi-Level for Army Reserve Centers	1	EA	81,200.00	Not Covered. Ref size based on the average size of projects in HII. Programmed as 1 Ea
17120	General Instruction Bldg (GIB) - Not for Range Projects	XX	SF	XX	See CC 17120, GIB above for non-Range projects.
17120	GIB for Range Projects, also called Range Classroom Bld	XX	SF	XX	For Range Classroom Bld, see CC 17123 under Range Complex below
17121	Indoor Firing Range	24,600	SF	286.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
17122	Ammunition Breakdown Bldg	190	SF	550.00	Ref size based on the average size of projects in Hii for Ammo Breakdown Bldg
17122	Operations/Storage Bld - Small	810	SF	290.00	Ref size based on the average size of projects in Hii for Ops/Storage Bldg, small
17122	Operations/Storage Bld - Large	1,800	SF	190.00	Ref size based on the average size of projects in Hii for Ops/Storage Bldg, large
17123	Range Classroom Building	800	SF	334.00	Also referred to as a Gen Instr Bldg for Range. Ref size based on the avg size of HII projs.
17123	After Action Review (AAR) Bld - Small	1,000	SF	352.00	Ref size based on the average size of projects in HII. Published with 2 data points.
17123	After Action Review (AAR) Bld - Large	3,100	SF	372.00	Ref size based on the average size of projects in HII
17123	Combined ROC/AAR-Digital Range	XX	XX	XX	See Note-1. Insufficient cost recent data
17139	Covered Mess - Range (Small)	800	SF	153.00	Includes hardstand cost below canopy. Ref size based on the average size on HII projects.
17139	Covered Mess - Range (Large)	1,400	SF	127.00	Includes hardstand cost below canopy. Ref size based on the average size of HII projects.
17139	Covered Mess - Service Schools	XX	XX	XX	See Note-1. Use Ref Size & Base Cost of the 800 SF Covered Range to determine the UC.
17213	Mission Command Trng Center (formerly BCTC)	43,000	SF	380.00	Ref size based on the average size of projects in HII
17801	Basic 10-25m Firing Range (Zero)	FP	EA	Site Specific	Requires 32 Firing Points (FP)
17805	Automated Record Fire Range	FP	EA	Site Specific	Requires 16 FPs
17806	Modified Record Fire Range	FP	EA	Site Specific	Requires 16 FPs
17821	Combat Pistol/MP Firearms Qualifications	FP	EA	Site Specific	Requires 15 FPs

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17878	Urban Assault Course	FP	EA	Site Specific	Requires 5 Stations. Each station represents one FP
17879	Live Fire Exercise Shoot house	FP	EA	Site Specific	Requires 10 FPs, each room and Corridor equals 1 FP
	Range Control Towers (RCT)				
	Open Observation decks, stairs, and walkways are calculated as half areas. Foundation cost is included in the Unit Cost.				
17971	Control Tower - open observation deck	1	EA	337,287.00	Ref size based on the average size of projects in HII
73075	Field Latrine - Dry Type, Aerated Vault	320	SF	674.00	Ref size based on the median size of Field Latrine projects in Hii
73075	Field Latrine -Wet Closet	550	SF	439.00	Ref size based on the average size of Field Latrine (Wet) projects in Hii
75061	Covered Bleacher - Range (Bleacher Enclosure)	1	EA	115,900.00	Ref size based on the average size of projects in HII
75061	Covered Bleacher for Svc Schools	XX	EA	XX	See Note-1. Insufficient cost recent data
17133	Vehicle Maint. Instructional Bldg	XX	SF	XX	See Note-1. Insufficient cost recent data
17134	Aircraft Maint Instructional Bldg	XX	SF	XX	See Note-1. Insufficient cost recent data
17135	Laboratory Instructions Bldg	XX	SF	XX	See Note-1. Insufficient cost recent data
17136	Automation Aided Instruction Bldg	XX	SF	XX	See Note-1. Insufficient cost recent data
17137	Material Handling Instructional Bldg	XX	SF	XX	See Note-1. Insufficient cost recent data
17139	Covered Mess	XX	SF	XX	See CATCD 17139, Covered Mess under Range Complex above
	ARMY RESERVE CTR COMPLEX				
17140	Training Bldg- Army Reserve (Army Res Ctr Bldg)	33,500	SF	227.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
14970	Loading Dock, Bi-Level (Also called Loading Ramp)	1	EA	81,200.00	Not Covered
21409	Organizational Maintenance Shop (OMS)	XX	SF	XX	See Note-1. Insufficient cost recent data
44220	Storage Building, Unheated	3,300	SF	130.00	Ref size bases on the average size of Army Reserve Bldg in Hii
17210	Flight Simulator Building	XX	SF	XX	See Note-1. Insufficient cost recent data
17971	Control/Observation Tower	XX	EA	XX	See CATCD 17971 under Range Control Tower
	AIRCRAFT (AC) MAINT HANGARS - DOD, reference only				
21110	Hangar - General Purpose, up to 40' high	64,000	SF	281.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to MPC for FY18 Projects
21110	Hangar - High Bay, >40' high	72,000	SF	257.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to MPC for FY18 Projects

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CAT CODE	Description	Facility Average or Standard Size	Unit Of Measure (UoM)	FY18 Unit Cost (\$ / UoM)	Remarks
	<u>ARMY HANGAR STANDARDS- Rotary Wing AC Maint Hangars</u>				
	Standard Army Hangars contain a High Bay Maintenance area and, typically a two Storied space at the rear of the maintenance area containing Shop space at the lower level and Administrative spaces above.				
21110	Attack-Assault-Cavalry(AAC) BN, Hi-Bay	85,000	SF	256.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to MPC for FY18 Projects
21110	Gen Spt Aviation Battalion (GSAB), min. eave ht 55'	111,000	SF	203.00	See Note-2. Ref size bases on the average size of Army GSAB projects in HII
21115	Unmanned Aerial Vehicle (UAV) Maint Hangar	52,000	SF	273.00	Ref Size & UC based on the average of UAV Maintenance Hgr projects in HII
21117	Aircraft Electronic-Avionics Maint Shop	XX	SF	XX	See Note-1. Insufficient cost recent data
21120	Aircraft Component Repair Shop (Machine Shop)	XX	SF	XX	See Note-1. Insufficient cost recent data
21130	Aircraft Paint/Corrosion Control Shop	XX	SF	XX	See Note-1. Insufficient cost recent data
21140	Aircraft Engine Test facility	XX	SF	XX	See Note-1. Insufficient cost recent data
	<u>TACTICAL EQUIPMENT MAINT FACILITY (TEMF) COMPLEX For Track & Wheeled Vehicles</u>				
	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,				
	<u>ORGANIZATIONAL MAINT SHOP - ARMY RESERVE</u>				
21409	Organizational Maint Shop, Small <10,000 SF	8,700	SF	279.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
21409	Organizational Maint Shop, Medium 10,000-40,000 SF	27,900	SF	254.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
21409	Organizational Maint Shop, Large >40,000 SF	XX	SF	XX	See Note-1. Insufficient cost recent data
	<u>ORGANIZATIONAL MAINT SHOP - REGULAR ARMY</u>				
21410	Small TEMF - Army, Regular	18,400	SF	309.00	Ref Size based on the Avg size of the small TEMF projects in Hii
21410	Medium TEMF - Army, Regular	35,000	SF	231.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
21410	Large TEMF - Army, Regular	XX	SF	XX	See Note-1. Insufficient cost recent data
21410	Extra Large TEMF - Army, Regular, >60,000 SF	68,000	SF	193.00	Ref size & UC based on project data in HII
21412	Unmanned Aerial Vehicle (UAV) Storage Bld, 18' high	1,800	SF	207.00	Ref size & UC based on project data in HII. Includes wet-pipe sprinklers, was CC21115
21470	POL Storage Bldg - TEMF	620	SF	196.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
21470	Hazardous Waste Storage Bldg - TEMF	650	SF	185.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
44135	Hazardous Material Storage Bldg - TEMF	XX	SF	XX	Use the same UC as CATCD 21470 above
44220	Storage Bldg - Small, Unheated - Army Reserve	3,300	SF	129.00	Ref size based on the average size of the small Unheated Storage Reserve projects in HII

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44222	Storage Shed (Covered, not Enclosed), ORTC	2,900	SF	126.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
44224	Organizational Storage Bldg- TEMF Incl: Loading Dock, Secured Storage Area and Wet-pipe Sprinklers	9,200	SF	127.00	Use this UC for CATCD 44224, Organizational Equip Storage Bldg
85210	Organizational (tactical) Veh Parking for TEMF	XX	SY	XX	9" Conc. w/ 8" base; use CATCD 85210 UC under COF Hardstand or local data if available
21610	Ammunition Renovation Shop	XX	XX	XX	See Note-1. Insufficient cost recent data
21612	Ammunition Surveillance Shop	XX	XX	XX	See Note-1. Insufficient cost recent data
21630	Ammunition Demilitarization Fac	XX	XX	XX	See Note-1. Insufficient cost recent data
21710	Electronics Maint Shop - Depot Level	XX	XX	XX	See Note-1. Insufficient cost recent data
21740	Aircraft Avionics Maint Shop	XX	XX	XX	See Note-1. Insufficient cost recent data
21850	Battery Shop	XX	XX	XX	See Note-1. Insufficient cost recent data
21881	Parachute Repair Shop	XX	XX	XX	See Note-1. Insufficient cost recent data
21885	General Purpose Maint Shop	XX	XX	XX	See Eng/Housing Maint Shop, CATCD 21910 UC below
21910	Engineering/Housing Maint Shop	6,000	SF	462.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.
31010	Chemistry Lab	XX	XX	XX	See Note-1. Insufficient cost recent data
31410	Ground Transportation Equip Bldg	XX	XX	XX	See Note-1. Insufficient cost recent data
42120	Hi Explosive Magazine w/Crane	800	SF	351.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
42180	Igloo Storage, Depot Level	XX	SF	XX	See Note-1. Use same UC as in CC42120 above
42183	Gen. Purpose Magazine w/o Crane	2,400	SF	229.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
42280	Igloo Storage, Installation	XX	SF	XX	See Note-1. Use same UC as in CC42120
42283	Gen Purpose Magazine w/o Crane - Installation	XX	SF	XX	See Note-1. Use same UC as in CC42183
43211	Cold Storage Bld w/Processing	XX	SF	XX	See Note-1. Insufficient cost recent data
43211	Cold Storage Bld w/o/o Processing	XX	SF	XX	See Note-1. Insufficient cost recent data
44110	General Purpose (GP) Warehouse, Depot	XX	SF	XX	See CATCD 44220 below
44130	Controlled Humidity Warehouse	5,600	SF	110.00	Ref size & UC based on project data in HII. Published with 2 data points.
44135	Hazardous Material Storage, Depot	XX	SF	XX	See Note-1. Insufficient cost recent data
44150	Flammable Material Storage, Depot	XX	SF	XX	See Note-1. Insufficient cost recent data
44181	Covered Vehicle Storage, Depot	XX	SF	XX	See Note-1. Insufficient cost recent data
44182	Vehicle Storage Building, Depot	XX	SF	XX	See Note-1. Insufficient cost recent data
44210	Aircraft Parts Storage Fac, Installation	XX	SF	XX	See Note-1. Insufficient cost recent data
44220	Gen Purpose (GP) Warehouse, Installation				

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44220	Low-Bay, Up to 16' Stack height, >15,000 SF	37,000	SF	144.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
44220	Hi-Bay, > 16' Clear Stack height	51,000	SF	173.00	Ref size & UC based on project data in HII.
44220	Lawn Equipment Bldg for AIT/BT barracks	XX	SF	XX	See Note-1. Insufficient cost recent data
44220	Unheated Storage Bldg - Army Reserve	XX	SF	XX	See CATCD 44220, Storage Bldg, Reserve under TEMF Complex above
44222	Storage Shed (Covered, not Enclosed) - Small	XX	SF	XX	See CATCD 44222, Storage Shed, under TEMF Complex above
44224	Organizational Equipment Storage Bldg	XX	SF	XX	See Org Storage Bld (CC44224) under TEMF Complex above
	For COF Equip. Storage UC, see Readiness Module- CC14185				
44224	Org. Storage Bld for Army Reserve	XX	SF	XX	See Org Storage Bld (CC44224) under TEMF Complex above
44224	Lawn Mower Storage Bldg for AIT/BT barracks	XX	SF	XX	See Note-1. Insufficient cost recent data
44228	HAZMAT Storage- Installation	XX	SF	XX	Use the same UC as CATCD 21470
45210	Open Storage Area, Installation	XX	SY	XX	Use CATCD 851XX, Pavements, from Part-II, PAX
	<u>MEDICAL FACILITIES</u>				
51010	Inpatient Hospital/Medical Center	XX	XX	XX	See Note-1. Insufficient cost recent data
51010	Medical Clinic attached to Hospital	XX	XX	XX	See Note-1. Insufficient cost recent data
53040	Veterinary Clinic	XX	XX	XX	See Note-1. Insufficient cost recent data
55010	Small Medical Clinic <60,000 SF, Free Standing	34,000	SF	289.00	<60,000 SF. Includes boilers & chillers cost
55010	Large Medical Clinic >60,000 SF, Free Standing	100,000	SF	354.00	>60,000 SF. Excludes the boiler & chillers located in a Central Utility Plant
55010	Mental/Behavioral Health Clinic	XX	XX	XX	See Note-1. Insufficient cost recent data
54010	Dental Clinic	17,000	SF	555.00	Includes boilers & chillers cost
53025	Satellite Pharmacy	XX	XX	XX	See Note-1. Insufficient cost recent data
53060	Medical Warehouse	XX	SF	XX	See Note-1. Insufficient cost recent data
53071	Ambulance Garage	XX	SF	XX	See Note-1. Insufficient cost recent data
61001	Military Entrance Processing Stn	XX	SF	XX	See Note-1. Insufficient cost recent data
61050	Administrative Fac, General Purpose				
	This multipurpose building provided office space, visitors area, auditorium, cafeteria, storage space, etc for administrative personnel				
61050	Administrative Fac, General Purpose, Small	4,700	SF	368.00	Prewired work station @ \$4500/Stn - installed, NOT included in sf cost.
61050	Administrative Fac, General Purpose, Medium	50,000	SF	274.00	Prewired work station @ \$4500/Stn - installed, NOT included in sf cost.
61050	Administrative Fac, General Purpose, Large	205,000	SF	290.00	Prewired work station @ \$4500/Stn - installed, NOT included in sf cost.

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61050	Command Headquarters Bldg	XX	SF	XX	New CATCD 14190, see CC14190 for UC
62010	Underground Administrative Facility	XX	SF	XX	See Note-1. Insufficient cost recent data
<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.					
<u>FAMILY HOUSING DWELLINGS</u>		Bedroom	Unit & SF		
71111	General Officer, Grade O10	4 Bedrms	4,000 SF / FA	166.50 / 189.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71111	General Officer, Grade O9	4 Bedrms	4,000 SF / FA	166.50 / 189.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71111	General Officer, Grade O8	4 Bedrms	3,330 SF / FA	168.00 / 191.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71111	General Officer, Grade O7	4 Bedrms	3,330 SF / FA	168.00 / 191.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71112	Colonel, Grade O6	4 Bedrms	2,520 SF / FA	165.00 / 182.50	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71113	Warrant Officer, Grade W4 & 5	3 Bedrms	2,020 SF / FA	163.00 / 186.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71113	Warrant Officer, Grade W4 & 5	4 Bedrms	2,310 SF / FA	162.00 / 185.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71113	LT. Colonel & Major, Grade O4 & 5	3 Bedrms	2,020 SF / FA	163.00 / 186.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71113	LT. Colonel & Major, Grade O4 & 5	4 Bedrms	2,310 SF / FA	162.00 / 185.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)

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71114	Warrant Officer, Grade W1-3	3 Bedrms	1,860 SF / FA	149.00 / 171.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71114	Warrant Officer, Grade W1-3	4 Bedrms	2,150 SF / FA	146.50 / 168.50	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71114	Warrant Officer, Grade W1-3	5 Bedrms	2,510 SF / FA	144.00 / 167.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71114	CO Grade Officer, O1-3	3 Bedrms	1,860 SF / FA	149.00 / 171.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71114	CO Grade Officer, O1-3	4 Bedrms	2,150 SF / FA	146.50 / 168.50	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71114	CO Grade Officer, O1-3	5 Bedrms	2,510 SF / FA	144.00 / 167.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71115	Senior NCO, E-9	3 Bedrms	2,020 SF / FA	164.00 / 186.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71115	Senior NCO, E-9	4 Bedrms	2,310 SF / FA	163.00 / 185.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71115	Senior NCO, E-7 & 8	3 Bedrms	1,860 SF / FA	149.00 / 171.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71115	Senior NCO, E-7 & 8	4 Bedrms	2,150 SF / FA	146.50 / 168.50	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71115	Senior NCO, E-7 & 8	5 Bedrms	2,510 SF / FA	144.00 / 167.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71116	Junior NCO/Enlisted, E-1 thru 6	3 Bedrms	1,630 SF / FA	152.00 / 174.50	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71116	Junior NCO/Enlisted, E-1 thru 6	4 Bedrms	1,950 SF / FA	150.00 / 172.00	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
71116	Junior NCO/Enlisted, E-1 thru 6	5 Bedrms	2,300 SF / FA	147.50 / 169.50	See note-2. Last year SF costs were escalated 1 year to FY18 MPC (1 Oct 2018)
	<u>GARAGE & CARPORTS</u>				
71410	Detached Garage, Masonry, 2-Car	XX	SF	XX	See Note-1. Insufficient cost recent data
71410	Detached Garage, Wood, 2-Car	XX	SF	XX	See Note-1. Insufficient cost recent data
71411	Carport - 2 Cars	XX	SF	XX	See Note-1. Insufficient cost recent data
85218	Parking Garage, Multistoried	XX	SF	XX	UC provided under CATCD 85218 below
72010	Temporary Lodging	XX	SF	XX	See CATCD 72412 also called Transient Housing

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72111	BARRACKS - Permanent Party (UEPH)	150-199	Person	214.90	Use Table-1, Part-II, Project Size Adj. Table; Ref size & UC based on project data in HII
	Unit cost does not include the cost for free standing equipment. All finished or 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	<u>WARRIORS IN TRANSITION (WT) BARRACKS COMPLEX</u>				
72112	WT Barracks, 56 Person Module	XX	SF	XX	See Note-1 above
14188	WT Unit Admin Fac, Large	XX	SF	XX	See Note-1 above
14188	WT Unit Admin Fac, Small	XX	SF	XX	See Note-1 above
14188	WT Company (CO) Admin Fac	XX	SF	XX	See Note-1 above
14184	WT Jt BN-CO Admin/Ops Fac	XX	SF	XX	See Note-1 above
72210	WT Dining Fac-Seating 251-500 Pers	XX	SF	XX	See CATCD 72210, Dining Fac (DFAC), below for UC
74033	WT Soldiers and Family Assist. Ctr (SFSC)	XX	SF	XX	See Note-1 above
74033	WT SFSC - Small	XX	SF	XX	See Note-1 above
74033	WT SFSC - Large	XX	SF	XX	See Note-1 above
	<u>OPERATIONAL READINESS TRAINING COMPLEX (ORTC)/ TRANSIENT TRAINING COMPLEX</u>				
	The ORTC Std design is based on a battalion sized ORTC to include Transient Barracks, Battalion HQ, Company HQ, Vehicle Maintenance, Dining, Officer Quarters, etc for transient trainees. These are more austere than permanent party facilities. No Cat Code exists for the Complex, utilize the catcode for the largest facility				
72114	ORTC Transient Training Barracks	50,000	SF	208.00	Ref size & UC based on project data in HII
72412	Sn. Enlisted Officers Qtrs, Transient	28,000	SF	305.00	Ref size & UC based on project data in HII. Published with 2 data points.
14184	Battalion HQ Bldg, Transient Trng	XX	SF	XX	See Note-1 above
14186	COF/Company HQ, Transient Trng	XX	SF	XX	See Note-1 above
14187	Brigade HQ Bldg, Transient Trng	XX	SF	XX	See Note-1 above
14179	Hardstand Cover (Canopy) - Transient Trng	XX	SF	XX	See CC 14179 under COF Complex above; incl Canopy column cost, no Hardstand cost
21406	Vehicle Maint Shop, Transient Trng	XX	SF	XX	See CC 21409 under the Army Reserve Organizational Maint Shop
72212	Dining Fac, 720 PN-Transient Trng	XX	SF	XX	See CC 72212 under Dining Facilities below
72212	Dining Fac, 1428 PN-Transient Trng	XX	SF	XX	See CC 72212 under Dining Facilities below
85210	Veh. Maint Shop (Motor Pool) Hardstand	varies	SY	See COF pvmt	See CC 85210 under COF Pavement

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44222	Covered Storage Sheds	2,800	SF	See TEMF	See CC 44222, Storage Shed, under TEMF Complex above
	<u>ADVANCE INDIVIDUAL TRAINING (AIT) COMPLEX</u>				
	A Standard AIT Barracks Complex consists of Brigade HQ, Battalion HQ, Barracks/COF Buildings for upto 4-300 person companies per BN, Dining Facility, and other required buildings and site facilities.				
72121	AIT Barracks w/CO Ops (COF) Space	145,000	SF	200.00	Ref size based on the average size of the AIT Barracks/COF buildings in HAG II
72121	AIT Barracks w/COF Space - Army Reserve	86,000	SF	211.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
14182	AIT Brigade HQS, if needed	XX	SF	XX	See CC 14182, Brigade HQ provided earlier
14183	AIT Battalion HQS w/ Classrooms	XX	SF	XX	See CC 14183, Battalion HQ provided earlier
72210	Dining Fac, AIT, 1300 PN, 544 seats	XX	SF	XX	See CC 72210, Small Basic and AIT Dining under Dining Facilities below
72210	Dining Fac, AIT, 2600 BN, 1088 seats	XX	SF	XX	See CC 72210, Large Basic and AIT Complex under DFAC below.
	<u>BASIC TRAINING (BT/IET) and ONE STATION UNIT TRAINING (OUST) BARRACKS COMPLEX</u>				
	A Standard BT/OUST Complex includes upto 5-64,700 SF each Barracks/Company Ops Bldgs for 1200 soldiers, a Battalion HQ Bld/ classroom, a Dining Facility, and Lawn equipment Storage (2000 SF) building, a 1/4 mile 8-lane running track and training pits.				
72181	BT/OUST Brks w/COF Space	133,000	SF	180.00	Ref size & UC based on project data in HII. Published with 2 data points.
	Calculate average individual Barrack/COF Bldg size, then use Size Adj. Factor Table-1, Part-I Table to determine BT Barracks/COF Bld UC using PAX Unit Cost.				
	BT/OUST Barracks Complex may contain 1,2,3, 4 or 5 Brks/COF Bldgs. Scope of Covered Training Area under Barracks w/CO Ops Space is included in each Bldg GSF				
72181	Battalion (BN) HQS W/ Classrooms	XX	SF	XX	See Note-1. Insufficient cost recent data
72210	Dining Fac for 1 BN, 1300 (PN) trainees, 544 seats	XX	SF	XX	See CC 72210, Small Basic and AIT Dining under DFAC below
72210	Dining Fac for 2 BN, 2600 (PN) trainees, 1088 seats	XX	SF	XX	Use Size Adj Table using 1300 trainee UC above for this facility
	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.				
	<u>DINING FACILITIES (DFAC)</u>				
	Cost includes MCA Funded Kitchen equipment & installation. DFACs are categorized and, then unit cost for each size is developed separately.				
72210	DFAC - Permanent Party - Small, 400 - 600 PN, <15,000 SF	19,000	SF	400.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
72210	DFAC - Permanent Party - Medium, 1057-1716 PN, 15,000 to 39,999 S	25,000	SF	409.00	Ref size & UC based on project data in HII
72210	DFAC - Permanent Party - Large, 1057-1716 PN, >40,000 SF	XX	SF	XX	See Note-1. Insufficient cost recent data
72210	DFAC - Basic & AIT Complex - Small, 1300 PN, 544 Seats	33,000	SF	347.00	Ref size & UC based on project data in HII

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					Note-1: No data or Not enough useable Army Bid Data since 2013 to forecast UC. Note-2: Last year's unit cost (UC) escalated 1 year. Not enough recent Army data to forecast UC. Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
72210	DFAC - Basic & AIT Complex - Large, 2600 PN, 1088 seats	55,000	SF	XX	See Note-1. Insufficient cost recent data
72212	DFAC - ORTC - Small, 720 PN	18,000	SF	426.00	Ref size & UC based on project data in HII
72212	DFAC - ORTC - Large, 1428 PN	21,000	SF	XX	See Note-1. Insufficient cost recent data
72410	Unaccompanied Officers Quarters	79,000	SF	272.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.
72412	Transient Training Officers Quarters	28,000	SF	305.00	Ref size & UC based on project data in HII. Published with 2 data points.
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 Vehicles, number of Dorm Emergency 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) is 70' x 91'				
73010	Fire Station	16,000	SF	361.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
73010	Airfield Fire/Crash Rescue Station	14,000	SF	325.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	CONSOLIDATED FIRE, SAFETY & SECURITY Facilities (FSS)/DEPT of EMERGENCY SERVICES (DES) Facilities				
	Combined Military Police, Safety, Fire & Emergency Svc. Also called Directorate of Emergency Services (DES) Facility				
73010	Consolidated FSS Fac - Medium	XX	SF	XX	See Note-1. Insufficient cost recent data
73016	Police/Law Enforcement (MP) Station	XX	SF	XX	See Note-1. Insufficient cost recent data
73017	Chapel - includes Pew seating.	21,500	SF	303.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
73017	Chapel for Initial Entry Trainees (IET)	XX	SF	XX	See Note-1. Insufficient cost recent data
73018	Religious Education Facility - Medium	XX	SF	XX	See Note-1. Insufficient cost recent data
	For upto 10 small groups of 55-70 PN. 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)	XX	SF	XX	See Note-1. Insufficient cost recent data
73046	DEPENDENT SCHOOLS				
73046	Elementary -CONUS	111,000	SF	282.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.
73046	Elementary School - OCONUS, for Japan Elementary School Only	118,000	SF	288.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.
73046	Elementary School - OCONUS, Other Than Japan locations	XX	SF	XX	Use CONUS Unit Cost w/ appropriate Size and ACF adjustments.
73046	Junior High	XX	SF	XX	See Note-1. Insufficient cost recent data
73046	High	142,000	SF	260.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.

Unit Costs for the ARMY Facilities - Military Construction Program (MILCON)
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PRIMARY FACILITIES UNIT COST (UC) TABLE (PART - I, BUILDINGS)					
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					Note-1: No data or Not enough useable Army Bid Data since 2013 to forecast UC. Note-2: Last year's unit cost (UC) escalated 1 year. Not enough recent Army data to forecast UC. Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
74010	Auditorium, General Purpose	4,000	SF	XX	See Note-1. Insufficient cost recent data
74011	Bowling Center	7,800	SF	XX	See Note-1. Insufficient cost recent data
74012	Cafeteria	5,000	SF	XX	See Note-1. Insufficient cost recent data
74016	CDC-School Age, >6 years of age	20,500	SF	XX	See Note-1. Insufficient cost recent data
74017	CDC-Preschool, 232 children, 0-6 yrs	30,000	SF	247.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
74021	Commissary	XX	SF	XX	See Note-1. Insufficient cost recent data
74022	Skill Development Center	XX	SF	XX	See Note-1. Insufficient cost recent data
74023	Credit Union	XX	SF	XX	See Note-1. Insufficient cost recent data
74024	Skill Development Ctr - automotive	XX	SF	XX	See Note-1. Insufficient cost recent data
74025	Education Center for 10,000-15,000 PN	XX	SF	XX	See Note-1. Insufficient cost recent data
74028	Physical Fitness Facility	62,000	SF	249.00	Includes 3 lane Jogging Track. Ref size & UC based on 2 projects in HII. See Note-2 on pricing.
	Program Indoor Swimming Pool (CC74042) separately				
74030	Sports Pro Shop	XX	SF	XX	See Note-1. Insufficient cost recent data
74033	Soldier Family Support Ctr (SFSC)	Varies	SF	XX	See CC 74033 under WT Complex above
74041	Main Library	XX	SF	XX	See Note-1. Insufficient cost recent data
74047	Service Club	XX	SF	XX	See Note-1. Insufficient cost recent data
74048	Officer Open Dining Facility	XX	SF	XX	See Note-1. Insufficient cost recent data
74053	Main Exchange	XX	SF	XX	See Note-1. Insufficient cost recent data
74056	Exchange Service Outlet	XX	SF	XX	See Note-1. Insufficient cost recent data
74066	Youth Center, medium (105-135 PN)	XX	SF	XX	See Note-1. Insufficient cost recent data
74068	Recreation Center	XX	SF	XX	See Note-1. Insufficient cost recent data
74070	Indoor Roller Skating Rink	XX	SF	XX	See Note-1. Insufficient cost recent data
74072	25 meter Indoor Swimming Pool	XX	SF	XX	See Note-1. Insufficient cost recent data
74075	Recreational Support Building	XX	SF	XX	See Note-1. Insufficient cost recent data
	PLAYGROUND for PPRESCHOOL CHILDREN, UNDER 6 YEARS of AGE				
75018	Small (126 children)	16,700	SF	20.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
75018	Medium (232 Children)	23,900	SF	16.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
75018	Large (338 Children)	38,300	SF	13.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects

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					Note-1: No data or Not enough useable Army Bid Data since 2013 to forecast UC. Note-2: Last year's unit cost (UC) escalated 1 year. Not enough recent Army data to forecast UC. Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
	PLAYGROUND for SCHOOL AGE CHILDREN, 6 TO 10 YEARS				
75018	Small (105-135 children)	47,600	SF	11.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
75018	Medium/Large (150-225 Children)	52,100	SF	11.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
75018	Play Ground for Youth Center	113,400	SF	8.30	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
75022	Multipurpose Athletics Field (360' x 160')	1	EA	591,700.00	Ref size & UC based on project data in HII
75027	Running Track	1	EA	324,100.00	Ref size & UC based on project data in HII
75030	Outdoor Swimming Pool	XX	SF	XX	See Note-1. Insufficient cost recent data
75061	Bleacher, Covered	XX	EA	XX	See CC 75061 under Range Complex above for UC
85210	Organizational Vehicle Parking	Varies	SY	82.00	Ref size & UC based on project data in HII
85218	Parking Garage, Multistoried	23,000	SF	45.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Assumes 425-450 SF/vehicle with turning radii and ramps.				
89120	Plant /Utilities Building	7,600	SF	631.00	Ref size & UC based on project data in HII
	SPECIAL FOUNDATIONS				
	Piling, Treated Wood, 50' long, 12" butt	N/A	SF	39.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Piling, Concrete, 14" square	N/A	SF	59.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Piling, Concrete, 16" square	N/A	SF	62.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Piling, Concrete, 18" diameter	N/A	SF	70.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Piling, Steel H, 50' Long, HP 12x53	N/A	SF	48.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects
	Piling, Steel Pipe, 12" D, Conc. Filled	N/A	SF	58.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2018 for FY18 Projects

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APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).				
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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
	<u>AIRFIELD RUNWAY</u> (RW) - SLIP FORM CONC PVMT, Airports, UNREINFORCED, 5000 PSI, 12' PASS, Incl JOINTS, FINISHING & CURING			
11110 & X20	8" THICK (TH) PAVEMENT	1	SY	\$41.00
	10" THICK PAVEMENT	1	SY	\$49.90
	12" THICK PAVEMENT	1	SY	\$57.00
	16" THICK PAVEMENT	1	SY	\$75.00
	<u>AIRFIELD RUNWAY</u> - FIXED FORM PLAIN CEMENT CONC PVMT, Airports, UNREINFORCED, 4500 PSI, 12' PASS, INCLUDES JOINT, FINISHING, & CURING			
11110 & X20	12 " THICK PAVEMENT, Note: ADD \$14.45/SY For REINF STEEL BAR, 18 LBS/SY (A185)	1	SY	\$57.00
	14" THICK PAVEMENT, Note: ADD \$14.45 /SY For REINF STEEL BAR, 18 LBS/SY (A185)	1	SY	\$68.00
	16" THICK PAVEMENT, Note: ADD \$14.45/SY For REINF STEEL BAR, 18 LBS/SY (A185)	1	SY	\$75.00
	<u>ASHPHALT PAVING</u>- PLANT MIX For HIGHWAYS & LARGE PAVED AREAS, WEARING COURSE			
11110 & X20	3" THICK PVMT	1	SY	\$17.40
	<u>AIRFIELD RUNWAY</u> - LIGHTING, BI-DIRECTIONAL W/ SHALLOW INSERT BASE			
11110 & X20	RW CENTER LINE LIGHT, SEMI FLUSH, 200 W	1	EA	\$2,234.00
	RW CENTER LINE LIGHT, FLUSH, 200 W	1	EA	\$2,234.00
	RW EDGE & THRESHOLD LIGHT, 200 W, BI-DIRECTIONAL for Base Housing	1	EA	\$1,481.00
	RW EDGE & THRESHOLD LIGHT, 2-115 W, Bi-DIRECTIONAL for Base Housing	1	EA	\$1,974.00
	TOUCHDOWN ZONE LIGHT, 200 W, UNIDIRECTIONAL for Base Housing	1	EA	\$1,896.00
	THRESHOLD & APPROACH LIGHT, 200 W, UNIDIRECTIONAL for Base Housing	1	EA	\$999.00
	<u>AIRFIELD PVMT MARKINGS</u>			
11110	THERMOPLASTIC PVMT MARKINGS, RUNWAY w/24 LB GLASS BEADS Per 100 SF	1	SF	\$4.00
	PVMT MARKINGS, TAXIWAY, PAINTING WHITE OR YELLOW STRIPES	1	SF	\$1.30
	<u>COMMUNICATIONS (COMM) DISTRIBUTION CABLE, CABLE SPLICING & TERMINATION</u> - UNDERGROUND RESIDENTIAL DISTRIBUTION (URD) or SIMILAR			
13510	CABLE SPLICING, 5 kV, #6 STRANDED to #1 STRANDED, URD or SIMILAR	1	EA	\$327.00

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	CABLE SPLICING, 15 kV, #6 STRANDED to #1 STRANDED, URD or SIMILAR	1	EA	\$395.00
	CABLE SPLICING, 25 kV, #6 STRANDED to #1 STRANDED, URD or SIMILAR	1	EA	\$426.00
13510	CABLE SPLICING, 5 kV, #1 STRANDED to #4/0 STRANDED, URD or SIMILAR	1	EA	\$364.00
	CABLE SPLICING, 15 kV, #1 STRANDED to #4/0 STRANDED, URD or SIMILAR	1	EA	\$442.00
	CABLE SPLICING, 25 kV, #1 STRANDED to #4/0 STRANDED, URD or SIMILAR	1	EA	\$457.00
13510	CABLE SPLICING, 5 kV, #4/0 STRANDED to 500 kcmil STRANDED, URD or SIMILAR	1	EA	\$384.00
	CABLE SPLICING, 15 kV, #4/0 STRANDED to 500 kcmil STRANDED, URD or SIMILAR	1	EA	\$535.00
	CABLE SPLICING, 25 kV, #4/0 STRANDED to 500 kcmil STRANDED, URD or SIMILAR	1	EA	\$644.00
13510	CABLE SPLICING, 5 kV, 500 kcmil STRANDED, URD or SIMILAR	1	EA	\$494.00
	CABLE SPLICING, 15 kV, 500 kcmil STRANDED, URD or SIMILAR	1	EA	\$618.00
	CABLE SPLICING, 25 kV, 500 lcmil STRANDED, URD or SIMILAR	1	EA	\$675.00
	CABLE SPLICING, 5 kV, 600 kcmil STRANDED, URD or SIMILAR	1	EA	\$514.00
	CABLE SPLICING, 15 kV, 600 kcmil STRANDED, URD or SIMILAR	1	EA	\$665.00
	CABLE SPLICING, 25 kV, 600 kcmil STRANDED, URD or SIMILAR	1	EA	\$722.00
13510	CABLE SPLICING, 5 kV, 750 kcmil STRANDED, URD or SIMILAR	1	EA	\$546.00
	CABLE SPLICING, 15 kV, 750 kcmil STRANDED, URD or SIMILAR	1	EA	\$691.00
	CABLE SPLICING, 25 kV, 750 kcmil STRANDED, URD or SIMILAR	1	EA	\$738.00
	CABLE SPLICING, 5 kV, 1000 kcmil STRANDED, URD or SIMILAR	1	EA	\$582.00
	CABLE SPLICING, 15 kV, 1000 kcmil STRANDED, URD or SIMILAR	1	EA	\$769.00
	CABLE SPLICING, 25 kV, 1000 kcmil STRANDED, URD or SIMILAR	1	EA	\$920.00
	<u>TERMINALE LUGS. SOLDERLESS</u>			
13510	TERMINAL LUGS, #16 to #10, SOLDERLESS	1	EA	\$15.10
	TERMINAL LUGS, #8 to #4, SOLDERLESS	1	EA	\$26.50
	TERMINAL LUGS, #2 to #1, SOLDERLESS	1	EA	\$34.30

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13510	TERMINAL LUGS, 1/0 to 2/0, SOLDERLESS	1	EA	\$47.80
	TERMINAL LUGS, 3/0, SOLDERLESS	1	EA	\$63.00
	TERMINAL LUGS, 4/0, SOLDERLESS	1	EA	\$70.00
	TERMINAL LUGS, 250 kcmil, SOLDERLESS	1	EA	\$85.00
	TERMINAL LUGS, 500 kcmil, SOLDERLESS	1	EA	\$131.00
	TERMINAL LUGS, 750 kcmil, SOLDERLESS	1	EA	\$153.00
	<u>FIBER OPTIC CABLE, SPLICER BOX & TERMINATION BOX</u>			
13510	12 STRAND FIBER OPTIC CABLE w/ 1" PVC INNER DUCT RUN IN DUCTBANK	1	LF	\$2.30
	24 STRAND FIBER OPTIC CABLE w/ 1" PVC INNER DUCT RUN IN DUCTBANK	1	LF	\$2.50
	36 STRAND FIBER OPTIC CABLE w/ 1" PVC INNER DUCT RUN IN DUCTBANK	1	LF	\$2.90
	6 STRAND FIBER OPTIC SPLICE BOX, INCL BOX & 6 CABLE SPLICES	1	EA	\$435.00
	12 STRAND FIBER OPTIC SPLICE BOX, INCL BOX & 12 CABLE SPLICES	1	EA	\$525.00
	24 STRAND FIBER OPTIC SPLICE BOX, INCL BOX & 24 CABLE SPLICES	1	EA	\$710.00
	36 STRAND FIBER OPTIC SPLICE BOX, INCL BOX & 36 CABLE SPLICES	1	EA	\$901.00
	6 STRAND FIBER OPTIC TERMINATION BOX, INCL BOX & 6 CABLE CONNECTIONS	1	EA	\$556.00
	12 STRAND FIBER OPTIC TERMINATION BOX, INCL BOX & 12 CABLE CONNECTIONS	1	EA	\$636.00
	24 STRAND FIBER OPTIC TERMINATION BOX, INCL BOX W/ 2 SPLICE TRAYS & 24 CABLE CONNECTIONS	1	EA	\$853.00
	36 STRAND FIBER OPTIC TERMINATION BOX, INCL BOX & w/ 3 SPLICE TRAYS & 36 CABLE CONNECTIONS	1	EA	\$1,060.00
81160	<u>STANDBY GENERATOR, DIESEL (SDG) , 3 PHASE 4 WIRE, 277/480 VOLTS, INCL. BATTERY, CHARGER, FUEL TANK, MUFLER & AUTO TXFR SWITCH (ATS), EXCL. CONDUIT, WIRING & CONC PAD</u>	75 kW	EA	\$44,890.00
		125 kW	EA	\$52,750.00
		200 kW	EA	\$68,690.00
		300 kW	EA	\$84,170.00
		400 kW	EA	\$114,100.00
		500 kW	EA	\$141,540.00

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		750 kW	EA	\$220,100.00
		1000 kW	EA	\$276,840.00
	<u>SITE LIGHTING</u>, UNDERGROUND DISTRIBUTION, EXCL. POLES & LIGHT FIXTURE COSTS			
81230	1" PVC CONDUIT, # 10- 3 STRAND COPPER WIRE, 150 LF DIRECT BURIAL, INCL EXCAVATION & BACKFILL	150	LF	\$2,234.00
	<u>SITE LIGHTING W/ LIGHT POLE & LIGHT FIXTURE ASSEMBLY</u>, EXCL UNDERGROUND DISTRIBUTION, WIRING, EXCAVATION & BACKFILL			
81230	20' ALUMINUM POLE, 400 WATT HIGH PRESSURE SODIUM (HPS)	1	EA	\$3,585.00
	40' ALUMINUM POLE, 1000 WATT HIGH PRESSURE SODIUM (HPS)	1	EA	\$6,235.00
	40' HIGH FIBERGLASS POLE, 1000 WATT HIGH PRESSURE SODIUM (HPS)	1	EA	\$5,118.00
	20' ALUMINUM POLE, 400 WATT METAL HALIDE (MH)	1	EA	\$3,533.00
	40' ALUMINUM POLE, 1000 WATT METAL HALIDE (MH)	1	EA	\$6,183.00
	40' HIGH FIBERGLASS POLE, 1000 WATT METAL HALIDE (MH)	1	EA	\$5,040.00
	<u>OVERHEAD (OH) ELECTRIC LINES</u> - INCL. COST OF WOOD POLES @ 250' SPACING, 3 PHASE 4 Wire ALUMINUM CONDUCTOR STEEL REINF			
81241	H-FRAME DISTRIBUTION LINES, 15-69 kV SHORT LINES w/ CROSS ARM & INSUL	1,000	LF	\$46,550.00
	OVERHEAD LINES BELOW 15 kV w/ CROSS ARMS & INSULATORS	1,000	LF	\$43,750.00
	<u>U/G ELECTRIC LINES (DIRECT BURIAL (DB))</u> - INCL. Cost of COPPER Service Entrance CABLE (SEU) CONDUCTOR, CHAIN EXCAVATOR to 3" and BACKFILL			
81242	# 1/0 -3/C, 600 Volt DB, SEU COPPER CONDUCTOR, EXCAV & BACKFILL	1	LF	\$19.10
	# 4/0 - 3/C, 600 Volt DB, SEU COPPER CONDUCTOR, EXCAV & BACKFILL	1	LF	\$28.10
	<u>CABLE TERMINATORS - OUT DOOR SYSTEMS</u>			
81242	CABLE TERMINATION, 15 kV, #1 SOLID to 4/0 STRANDED	1	EA	\$359.00
	CABLE TERMINATION, 15 kV, #2/0 SOLID to 350 KCMIL STRANDED	1	EA	\$390.00
	CABLE TERMINATION, 15 kV, 400 KCMIL to 750 KCMIL STRANDED	1	EA	\$447.00
	<u>CABLE SPLICING</u>, 15 kV, UNDERGROUND RESIDENTIAL DISTRIBUTION (URD) CABLE or SIMILAR			

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81242	CABLE SPLICING, URD or SIMILAR, #1 STRANDED to 4/0 STRANDED,	1	EA	\$442.00
	CABLE SPLICING, URD or SIMILAR, 4/0 STRANDED to 500 KCMIL STRANDED	1	EA	\$535.00
	<u>UNDERGROUND (UGND) ELECTRIC DUCTBANKS</u> - INCL Cost of EXCAVATION (EXCAV), CAST IN PLACE (CIP) CONC & BACKFILL to 3' DEEP			
81242	1-WAY-4" Diameter (DIA) PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$19.00
	2-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$33.30
	4-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$58.00
	6-WAY-6" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$134.00
81242	1-WAY-2" DIA RIGID GALVANIZED STEEL (RGS) ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$26.50
	1-WAY-3" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$47.80
	1-WAY-4" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$61.00
	1-WAY-5" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$84.00
	1-WAY-6" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$105.00
81242	2-WAY-2" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$40.00
	2 WAY-3" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$69.00
	2-WAY-4" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$94.00
	2-WAY-5" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$155.00
	2-WAY-6" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$216.00
81242	3-WAY-2" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$58.00
	3-WAY-3" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$97.00
	3-WAY-4" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$134.00
	3-WAY-5" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$222.00
	3-WAY-6" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$312.00
81242	4-WAY-2" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$76.00
	4-WAY-3" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$124.00
	4-WAY-4" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$174.00

UNIT COSTS For SUPPORT FACILITIES
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APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).				
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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
	4-WAY-5" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$290.00
	4-WAY-6" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$410.00
81242	1-WAY-2" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$16.10
	1-WAY-3" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$18.70
	1-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$22.30
	1-WAY-5" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$26.00
	1-WAY-6" DIA PVC, ENCASED BURIAL, INCL EXCAV,CIP CONC & BACKFILL	1	LF	\$31.20
81242	2-WAY-2" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$24.90
	2-WAY-3" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$29.60
	2-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$35.90
	2-WAY-5" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$43.10
	2-WAY-6" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$54.00
81242	4-WAY-2" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$39.00
	4-WAY-3" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$46.80
	4-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$57.00
	4-WAY-5" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$68.00
	4-WAY-6" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$87.00
81242	6-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$86.00
	6-WAY-5" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$103.00
	6-WAY-6" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$139.00
	<u>ELECTRICAL (ELECT) UNDERGROUND (UGND) MANHOLES (MH)</u> , EXCL COST OF EXCAVATION, CIP CONC & BACKFILL			
81242	UGND HAND HOLES, 4' x 4' x 4' DEEP, PRECAST CONC w/ COVER, EXCL EXCAV, CIP CONC & BACKFILL	1	EA	\$2,858.00
	ELECT UGND MH, 6' x 10' x 7' DEEP, PRECAST w/ IRON RACKS & PULLING IRONS, C.I. FRAME & COVER	1	EA	\$12,050.00
	ELECT UGND MH, 6' x 8' x 7' DEEP, PRECAST w/ IRON RACKS & PULLING IRONS, C.I. FRAME & COVER	1	EA	\$10,810.00

UNIT COSTS For SUPPORT FACILITIES
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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
81320	<u>SUBSTATION, LOAD INTERRUPTER SWITCH, 600 AMP</u> , 2 POSITION, 3 kVA & BELOW W/ CLF FUSES, 4.8 kV, 6000 AMP, NEMA 1 & GROUNDING LOOP	1	EA	\$31,590.00
	<u>TRANSFORMERS</u> (XFMR) - INCL COST of PAD MOUNTING w/ BOLLARDS AND GROUNDING LOOP			
81360	XFMR 150 kVA, OIL FILLED, 5 kV or 15 kV w/ TAPS, 277/480 V SECONDARY 3 PHASE	1	EA	\$19,850.00
	XFMR 225 kVA, OIL FILLED, 15 kV w/TAPS, 480 V SECONDARY 3 PHASE	1	EA	\$21,930.00
	XFMR 500 kVA, OIL FILLED, 15 kV W/ TAPS, 480 V SECONDARY 3 PHASE	1	EA	\$25,880.00
	XFMR 1,000 kVA, OIL FILLED, 15 kV W/ TAPS, 480 V SECONDARY 3 PHASE	1	EA	\$46,970.00
	XFMR 2,000 KVA, OILL FILLED, 15 kV W/ TAPS, 480 V SECONDARY 3 PHASE	1	EA	\$65,990.00
81360	XFMR 15 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$8,729.00
	XFMR 25 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$9,638.00
	XFMR 37.5 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$10,700.00
	XFMR 50 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$11,640.00
	XFMR 75 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$12,990.00
	XFMR 100 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$14,550.00
	XFMR 167 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$19,120.00
81360	XFMR, 75 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$10,390.00
	XFMR, 112.5 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$11,430.00
	XFMR, 150 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$12,570.00
	XFMR, 225 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$14,960.00
	XFMR, 500 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$23,170.00
	XFMR, 750 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$34,290.00
	XFMR, 1000 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$38,240.00
81360	XFMR, 10 kVA, DRY TYPE On 36' POLE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$4,650.00
	XFMR, 15 kVA, DRY TYPE On 36' POLE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$5,196.00
	XFMR, 25 kVA, DRY TYPE On 36' POLE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$6,105.00

UNIT COSTS For SUPPORT FACILITIES
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APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).				
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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
81360	<u>MAIN POWER (PWR) TRANSFORMER (XFMR)</u> - INCL COST Of PAD MOUNTING (MTD) W/BOLLARDS & GROUNDING LOOP (GL)			
	MAIN PWR XFMR 46 kV, PAD MTD, w/ BOLLARDS & GL (1 MVA = 1,000 kVA)	1	KVA	\$35.23
	MAIN PWR XFMR 110 kV, PAD MTD, w/ BOLLARDS & GL (1 MVA = 1,000 kVA)	1	KVA	\$30.14
	MAIN PWR XFMR 161 kV, PAD MTD, W/ BOLLARDS & GL (1 MVA = 1,000 kVA)	1	KVA	\$28.06
	MAIN PWR XFMR 500 kV, PAD MTD, W/ BOLLARDS & GL (1 MVA = 1,000 kVA)	1	KVA	\$27.43
81360	<u>TRANSFORMERS (XFMR)</u> - INCL COST Of PAD MOUNTING (MTD) W/BOLLARDS AND GROUNDING LOOP (GL)			
	112.5 kVA XFMR, PAD MTD, 13,800 VOLTS TO 480/277 VOLTS W/ BOLLARDS & GL	1	EA	\$51,650.00
	150 kVA XFMR, PAD MTD, 13,800 VOLTS TO 480/277 VOLTS W/ BOLLARDS & GL	1	EA	\$52,480.00
	225 kVA XFMR, PAD MTD, 13,800 VOLTS TO 480/277 VOLTS W/ BOLLARD & GL	1	EA	\$59,750.00
	500 kVA XFMR, PAD MTD, , 13,800 VOLTS TO 480/277 VOLTS	1	EA	\$68,070.00
	<u>STEAM (ST) CONDENSATE LINES, UNDERGROUND (UGND) - FROM CENTRAL PLANT TO BUILDING</u>			
	<u>COMMON CONDUIT, UGND</u> - COMBINED STEAM (ST) SUPPLY & CONDENSATE (CNDS) RETURN (RTN) PIPES, INCL FITTINGS, TESTING & STEAM MANHOLES @ 250' O.C., 3' DEEP EXCAV & BACKFILL			
82210	2" ST & 1-1/4" CNDS RTN PIPE, PREFAB BLACK STEEL in 12-3/4" INSL CASE W/ MH @ 250' O.C.	1	LF	\$525.00
	1-1/2" ST & 1-1/2" CNDS RTN PIPE, PREFAB BLACK STEEL in 10-3/4" INSUL CASE W/ MH @ 250' O.C.	1	LF	\$520.00
	1-1/4" ST & 1-1/2" CNDS RTN PIPE, PREFAB BLACK STEEL in 10-3/4" INSUL CASE W/ MH @ 250' O.C.	1	LF	\$520.00
	1" ST & 1" CNDS RTN PIPE, PREFAB BLACK STEEL in 10-3/4" INSUL CASE W/ MH @ 250' O.C.	1	LF	\$520.00
	<u>SINGLE CONDUIT</u> - STEAM OR HIGH PRESSURE WATER PIPE, w/ INSULATED CASE ON SUPPORTS, INCL FITTINGS (FTG) & TESTING (TST)			
82210	1-1/4" ST PIPE, PREFAB BLACK STEEL in 12-3/4" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$322.00
	1-1/2" ST PIPE, PREFAB BLACK STEEL in 12-3/4" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$322.00
	2" ST PIPE, PREFAB BLACK STEEL in 12-3/4" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$338.00
	2-1/2" ST PIPE, PREFAB BLACK STEEL in 12-3/4" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$359.00
	3" ST PIPE, PREFAB BLACK STEEL in 14" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$359.00
	4" ST PIPE, PREFAB BLACK STEEL in 14" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$390.00
	6" ST PIPE, PREFAB BLACK STEEL in 18" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$483.00

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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
	<u>CONCRETE TRENCH W/ COVER for STEAM AND HOT WATER PIPING</u>			
82210	18" DEEP x 24" WIDE x 6" THICK WALL w/ CONC COVER	1	LF	\$149.00
	<u>HOT WATER LINES, UNDERGROUND</u>			
82220	<u>COMMON CONDUIT - COMBINED HOT WATER (HW) SUPPLY & RETURN (RTN) PIPES, PREFABRICATED BLACK STEEL, INSULATED CASE, INCL FITTINGS (FTG), TESTING TST), EXCAVATION & BACKFILL</u>			
	1" HW & 1" RET PIPE in 10-3/4" PREFAB BLACK STEEL INSUL CASE, INCL EXCAV, BKFL, FTG & TST	1	LF	\$384.00
	1-1/2" HW & 1-1/2" RET PIPE in 10-3/4" PREFAB BLACK STEEL INSUL CASE, INCL EXCAV, BKFL, FTG & TST	1	LF	\$384.00
	2" HW & 2" RET PIPE in 10-3/4" PREFAB BLACK STEEL INSUL CASE, INCL EXCAV, BKFL, FTG & TST	1	LF	\$390.00
	3" HW & 3" RET PIPE in 16" PREFAB BLACK STEEL INSUL CASE, INCL EXCAV, BKFL, FTG & TST	1	LF	\$442.00
	4" HW & 4" RET PIPE in 10" PREFAB BLACK STEEL INSUL CASE, INCL EXCAV, BKFL, FTG & TST	1	LF	\$582.00
	<u>STEAM DISTRIBUTION MANHOLE (MH) , PREFAB STEEL</u>			
82220	STEAM DISTRIBUTION MANHOLE (MH) , PREFAB STEEL, 8' X 6' HT, INCL MH VENT, PIPING, CONDUIT & LADDER	1	EA	\$17,670.00
	<u>GAS PIPELINES for PLAIN & NATURAL GAS PIPING (PNG) - PLAIN END, TAR COATED (CTD) & WRAPPED, INCL EXCAVATION & BACKFILL</u>			
82410	1" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$23.40
	2" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$28.10
	3" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$35.90
	4" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$47.80
	6" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$73.00
	8" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$104.00
	12" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$231.00
	18" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$327.00
	24" DIA. STEEL PIPE SCHEDULE 40, PLAIN END, TAR CTS, INCL EXCAV & BKFL	1	LF	\$540.00
82410	4" DIA. STEEL PIPE, SCHEDULE 80, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$89.00
	6" DIA. STEEL PIPE, SCHEDULE 80, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$154.00

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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
	<u>SEWAGE LIFT STATION</u>, PACKAGED (PCKG) SEWAGE LIFT STN, EXCL FENCING, EXTERNAL (EXT) PIPING (PNG) OR LIFT EQUIP BLDG			
83150	200,000 GPD, PCKG SEWAGE LIFT STN, EXCL FENCING OR EXT PNG	1	EA	\$320,590.00
	100 GPM, PCKG SEWAGE LIFT STN, EXCL FENCING OR EXT PNG	1	EA	\$279,330.00
	200 GPM, PCKG SEWAGE LIFT STN, EXCL FENCING OR EXT PNG	1	EA	\$358,510.00
	<u>SEWERAGE EJECTOR PUMP - DUPLEX SYSTEM, W/ FIBERGLASS TANK, 135 GALLONS, OPERATING & LEVEL CONTROLS</u>			
83150	174 GPM PUMP, 0.7 HP, 15' HEAD, 2" DISCHARGE, INCL FIBERGLASS TANK, CNTRLS, & TANK COVER	1	EA	\$4,131.00
	<u>SANITARY SEWER - STORM DRAINAGE (SD) MANHOLES (MH)</u>, CONCRETE CAST IN PLACE (CIP), INCL FRAMES & COVERS			
83210	4' x 4', 8" THICK SD MH, 4' DEEP CIP CONC, INCL FRAMES & COVERS, EXCL FTG, EXCAV, BKFL	1	EA	\$4,309.00
	4' x 4', 8" THICK SD MH, 6' DEEP CIP CONC, INCL FRAMES & COVERS, EXCL FTG, EXCAV, BKFL	1	EA	\$5,897.00
	4' DIA, 8" THICK SD MH, 8' DEEP CIP CONC, INCL FRAMES & COVERS, INCL BASE EXCAV & BKFL	1	EA	\$9,560.00
	4' DIA, 8" THICK SD MH, > 8' DEEP CIP CONC, INCL FRAMES & COVERS, INCL BASE EXCAV & BKFL	1	VLF	\$1,034.00
	4' DIA, TO 8' DEEP PRECAST CONC SD MH, INCL FRAMES & COVERS, INCL BASE EXCAV & BKFL	1	VLF	\$748.00
	4' DIA, > 8' DEEP PRECAST CONC SD MH, INCL FRAMES & COVERS, INCL BASE EXCAV & BKFL	1	VLF	\$785.00
	<u>CATCH BASIN (CB)</u> - CONCRETE PRECAST, INCLUDE MANHOLE, FRAMES, & COVER, BASE EXCAV & BKFL			
83210	5' INTERNAL DIA, 4' DEEP PRECAST CONC CB, INCL BASE EXCAV & BKFL	1	EA	\$4,416.00
	5' INTERNAL DIA, 6' DEEP PRECAST CONC CB, INCL BASE EXCAV & BKFL	1	EA	\$4,858.00
	<u>CURB INLET/ GUTTERMOUTH - INCL CURB INLET FRAME, GRATE & CURB BOX; EXCL FOOTING, CB EXCAV & BKFL & PIPING OF DRAIN</u>			
83210	24" x 36" LARGE, HEAVY DUTY CURB INLET, INCL FRAME, GRATE & CURB BOX, EXCL CB	1	EA	\$1,533.00
	<u>STORMWATER DRAINAGE (SD) PONDS</u> - INCLUDES FENCE, SEEDING SLOPES, PARTIAL LINER & EXCAVATION			
83210	1/8 ACRES, 5' DEEP SD POND, INCL SEEDING SLOPES, PARTIAL LINER & EXCAV	1	EA	\$22,970.00
	1/4 ACRES, 5' DEEP SD POND, INCL SEEDING SLOPES, PARTIAL LINER & EXCAV	1	EA	\$45,950.00
	3/8 ACRES, 5' DEEP SD POND, INCL SEEDING SLOPES, PARTIAL LINER & EXCAV	1	EA	\$69,110.00
	1/2 ACRES, 5' DEEP SD POND, INCL SEEDING SLOPES, PARTIAL LINER & EXCAV	1	EA	\$91,970.00

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	<u>WATER DISTRIBUTION LINES</u> - CEMENT LINED DUCTILE IRON PIPE (DI), INCL MECHANICAL JOINT (MJ), EXCAVATION & BACKFILL, EXCL FITTINGS (FTGS)			
84210	4" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$45.70
	6" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$54.00
	10" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$86.00
	12" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$99.00
	18" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$159.00
	24" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$230.00
	<u>WATER DISTRIBUTION LINES</u> - FIBERGLASS (FBGLS) PLASTIC PIPE, FILAMENT WOUND (FW), GENERAL SVC, INCL. EXCAVATION & BACKFILL			
84210	2" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$43.10
	3" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$51.00
	4" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$60.00
	6" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$87.00
	10" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$161.00
	12" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$197.00
	<u>WATER DISTRIBUTION LINES</u> - PLASTIC PIPE, PVC, INCL EXCAVATION & BACKFILL			
84210	1" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$28.60
	2" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$37.90
	3" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$47.30
	4" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$55.00
	6" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$81.00
	10" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$163.00
	12" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$191.00
	<u>WATER DISTRIBUTION LINES</u> - PLASTIC PIPE, PVC; INCL EXCAVATION & BACKFILL			
84210	1" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$30.10
	2" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$41.60
	3" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$52.00
	4" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$61.00

UNIT COSTS For SUPPORT FACILITIES
PAX Newsletter 3.2.2, Part-2 dated 16 May 2016

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).				
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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
	1" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$99.00
	1" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$186.00
	1" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$220.00
	<u>WATER DISTRBN LINE - PLASTIC PIPE, HIGH DENSITY POLYETHYLENE (HDPE), SINGLE (SGL) WALL, STRAIGHT (STR), WELDED, INCL EXCAV & BKFL</u>			
84210	1" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$7.50
	2" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$8.80
	3" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$9.50
	4" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$11.50
	6" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$20.20
	10" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$36.40
	12" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$49.40
	18" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$89.00
	24" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$96.00
	36" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$115.00
84472	<u>WATER PUMP, NONPOTABLE - FIRE PUMP, DIESEL (DSL), INCL. PUMP, CONTROLLER, FITTINGS (FTGS) & RELIEF VALVE (PRV), NO BLD</u>			
	500 GPM - 4" DSL PUMP, 125 PSI, 78 HP, INCL CONTROLLER, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$55,080.00
	1000 GPM - 4" DSL PUMP, 100 PSI, 89 HP, INCL CONTROLLER, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$54,560.00
	2000 GPM - 6" DSL PUMP, 100 PSI, 167 HP, INCL CONTROLLER, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$71,700.00
	2500 GPM - 8" DSL PUMP, 150 PSI, 365 HP, INCL CONTROLLER, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$98,200.00
84472	1000 GPM- 5" ELECT PUMP, 100 PSI, 86 HP, 3500 RPM, INCL CONTRLR, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$34,710.00
	2000 GPM- 6" ELECT PUMP, 100 PSI, 167 HP, 1770 RPM, INCL CONTRLR, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$45,410.00
	<u>WATER STORAGE TANK - ABOVEGROUND (AG) ELEVATED (ELEV) STEEL STORAGE (STOR) TANK, 100' HIGH TOWER, INCL SPREAD (SPRD) FOUNDATION (FDN), PAINTING (PNT), EXCL PIPES & PUMPS</u>			
84610	50,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$270,700
	100,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$408,400

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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
	150,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$612,070
	250,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$1,097,370
	500,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$1,951,570
	750,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$2,367,760
	1,000,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$3,392,900
	<u>GROUND STORAGE TANK (WATER) - ABOVEGROUND (AG) PRE-STRESSED CONCRETE TANK; INCL INTEGRAL FOUNDATION (FDN), EXCL PIPES AND PUMPS</u>			
84610	100,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$226,540
	250,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$437,490
	500,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$711,310
	1,000,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$1,071,910
	2,000,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$1,565,000
	4,000,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$2,491,420
	<u>RESERVOIR (RSVR), POTABLE WATER - GROUND LEVEL (GL) STEEL STORAGE (STOR) TANK, INCL 1' x 3' RING WALL FOUNDATION (FDN), EXCL PIPES & PUMPS</u>			
84620	250,000 GA, STEEL STOR TANK, GL, INCL 1' x 3' RING WALL FDN, EXCL PIPES & PUMPS	1	EA	\$436,450
	500,000 GA, STEEL STOR TANK, GL, INCL 1' x 3' RING WALL FDN, EXCL PIPES & PUMPS	1	EA	\$613,110
	1,000,000 GA, STEEL STOR TANK, GL, INCL 1' x 3' RING WALL FDN, EXCL PIPES & PUMPS	1	EA	\$966,430
	2,000,000 GA, STEEL STOR TANK, GL, INCL 1' x 3' RING WALL FDN, EXCL PIPES & PUMPS	1	EA	\$1,530,700
	4,000,000 GA, STEEL STOR TANK, GL, INCL 1' x 3' RING WALL FDN, EXCL PIPES & PUMPS	1	EA	\$3,112,330
84620	<u>UNDERGROUND (UGND) STORAGE (STOR) TANK - FIBERGLASS (FBGLS), DOUBLE (DBL) WALL, U.L. LISTED, INCLUDES MANWAYS, SLAB, & HOLD-DOWN STRAPS</u>			
	600 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$12,470.00
	1,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$17,150.00
	2,500 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$27,430.00
	4,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$33,770.00
	6,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$45,620.00

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APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).				
NOTE: The Support Fac Unit Costs are for guidance only. Adjustment to these Unit Costss are allowed when local cost data are available with back-ups.				
<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
	8,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$53,520.00
	10,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$62,870.00
	12,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$75,860.00
	15,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$95,080.00
	20,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$116,390.00
	<u>ABOVE GROUND (AG) FUEL STORAGE (STOR) TANK - CONCRETE; INCLUDES PAD</u>			
84620	500 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$14,550.00
	1,000 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$19,540.00
	2,000 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$25,040.00
	4,000 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$31,280.00
	8,000 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$47,490.00
	12,000 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$62,870.00
	<u>ROADS/ LARGE PAVEMENTS - PLANT MIX ASPHALT CONCRETE (AC) SURFACE; EXCL EARTHWORK (CUT & FILL, CC 93410)</u>			
85110	1-1/2" THICK PLANT MIX AC PAVING, WEARING COURSE, EXCL EARTHWORK (CUT & FILL, CC 93410)	1	SY	\$9.10
	2" THICK PLANT MIX AC PAVING, WEARING COURSE, EXCL EARTHWORK (CUT & FILL, CC 93410)	1	SY	\$12.00
	3" THICK PLANT MIX AC PAVING, WEARING COURSE, EXCL EARTHWORK (CUT & FILL, CC 93410)	1	SY	\$17.40
	<u>RECYCLED PLANT MIX BITUMINOUS CONCRETE (BIT CONC) PAVEMENT (PVMT)</u>			
85110	PLANT MIXED BIT CONC, RECLAIMED PVMT IN STOCKPILE, 145 LB/CF	1	TON	\$64.00
	PLANT MIXED BIT CONC, RECYCLED PVMT OLD/NEW RATIO 70:30	1	TON	\$71.00
	<u>UNREINFORCED CONC PAVEMENTS (PVMT), FIXED FORM, 12' PASS, INCL JOINTS, FINISHINGS, & CURING EXCL. EARTHWORK</u>			
85110	6" THICK, UNREINF PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$30.10
	8" THICK, UNREINF PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$40.50
	10" THICK, UNREINF PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$50.00
	12" THICK, UNREINF PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$57.00
	16" THICK, UNREINF PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$76.00

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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
	<u>REINFORCED CONC PAVEMENTS (PVMT), FIXED FORM, 12' PASS, INCL JOINTS, FINISHINGS, & CURING EXCL. EARTHWORK</u>			
85110	6" THK, REINF CONC PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$45.20
	8" THK, REINF CONC PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$55.00
	10" THK, REINF CONC PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$65.00
	<u>CAST IN PLACE (CIP) CONCRETE CURB & GUTTER (C&G), STRAIGHT, WOOD FORM, NO EARTHWORK INCLUDED</u>			
85110	6" HI CURB, 6" THK GUTTER, 24" WIDE, CIP CONC, STR WOOD FORMS, 0.055 C.Y. / LF, EXCL ERTHWRK	1	LF	\$29.10
	6" HI CURB, 6" THK GUTTER, 30" WIDE, CIP CONC, STR WOOD FORMS, 0.066 C.Y. / LF, EXCL ERTHWRK	1	LF	\$31.70
	PRECAST CONC CURBS 6" HI x 18" WIDE, NO ERTHWRK INCLUDED	1	LF	\$19.50
	<u>BASE COURSE DRAINAGE LAYERS for ROADWAYS & LARGE PAVED AREAS - COMPACTED, EXCL EARTHWORK (ERTHWRK)</u>			
85110	1-1/2" CRUSHED STONE BASE TO 4" DEEP, COMPACTED, INCL TRANS & EQPT, EXCL ERTHWRK	1	SY	\$6.50
	1-1/2" CRUSHED STONE BASE TO 6" DEEP, COMPACTED, INCL MATERIAL & TRANS, EXCL ERTHWRK	1	SY	\$9.10
	1-1/2" CRUSHED STONE BASE TO 8" DEEP, COMPACTED, INCL MATERIAL & TRANS, EXCL ERTHWRK	1	SY	\$12.00
	1-1/2" CRUSHED STONE BASE TO 12" DEEP, COMPACTED, INCL MATERIAL & TRANS, EXCL ERTHWRK	1	SY	\$17.10
	<u>BANK RUN GRAVEL BASE COURSE, SPREAD & COMPACTED, INCL TRANS & EQPT, EXCL ERTHWRK</u>			
85110	BANK RUN GRAVEL BASE, 6" DEEP, SPREAD & COMPACTED, INCL TRANS & EQPT, EXCL ERTHWRK	1	SY	\$6.20
	BANK RUN GRAVEL BASE, 9" DEEP, SPREAD & COMPACTED, INCL TRANS & EQPT, EXCL ERTHWRK	1	SY	\$9.10
	BANK RUN GRAVEL BASE, 12" DEEP, SPREAD & COMPACTED, INCL TRANS & EQPT, EXCL ERTHWRK	1	SY	\$12.00
	<u>PLANT MIXED BITUMINOUS CONCRETE BASE COURSE, EXCL EARTHWORK</u>			
85110	PLANT MIXED BITUMINOUS CONC BASE, 4" THICK, EXCL ERTHWRK	1	SY	\$21.30
	PLANT MIXED BITUMINOUS CONC BASE, 6" THICK, EXCL ERTHWRK	1	SY	\$30.70
	PLANT MIXED BITUMINOUS CONC BASE, 8" THICK, EXCL ERTHWRK	1	SY	\$41.00
	PLANT MIXED BITUMINOUS CONC BASE, 10" THICK, EXCL ERTHWRK	1	SY	\$50.00
	<u>SURFACE TREATMENTS</u>			

UNIT COSTS For SUPPORT FACILITIES
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85110	TACK COAT, ELMUSION, 15 GALLONS/SY	1	SY	\$1.90
	SLURRY SEAL, TYPE II, 12 lb AGGREGATE/SY	1	SY	\$5.50
	PAVEMENT MARKINGS, ACRYLLIC WATERBORNE, 4" WIDE WHITE OR YELLOW, < 3000 LF	1	LF	\$0.40
	<u>SIDEWALKS & WALKWAYS</u> - PEDESTRIAN SIDEWALKS & WALKWAYS, WITH BASE COURSE. SEE CC 85110 FOR DRIVEWAYS & ROADS			
85220	4" THICK CAST IN PLACE (CIP) CONC, 6' x 6' -W 1.4 x W1.4 MESH, 3000 PSI, BROMMED FINISH, W/ BASE	1	SY	\$59.00
	2-1/2" ASPHALT CONCRETE W/ BASE	1	SY	\$19.50
	<u>RAILROAD (RR) TRACKS W/TIES AND BALLAST</u> FOR STANDARD GAUGE. TRACK IS DEFINED AS A SINGLE PAIR OF RAILS,			
86010	RR TRACKS, 100 LB Rail, LEVEL GRADE, W/ WOOD TIES, INCL BALLASTS, CLIPS, ANGLE BARS & BOLTS.	1	LF	\$267.00
	<u>STORM WATER DRAINAGE SEWER/PIPING</u> - INCL EXCAV & BKFL. TYPICALLY STORM WATER DRAINAGE SYSTEM WILL CONSISTS OF DRAINAGE INLET, RETENTION BASINS, PIPELINES, ACCESS MANHOLES, & OTHER COMPONENTS			
	<u>CORRUGATED METAL PIPE</u> (CMP), 16 GA, GALVANIZED (GALV) & BITUMINOUS (BITUMN) COATED (CTD)			
87110	8" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$25.50
	10" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$30.10
	12" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$35.90
	15" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$39.50
	18" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$44.70
	24" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$55.00
	30" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$81.00
	36" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$91.00
	60" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$183.00
	<u>NON-REINFORCED (NR) CONCRETE PIPE</u>, EXTRA STRENGHT, INCL EXCAV & BKFL			
87110	6" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$36.40
	10" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$39.00
	12" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$43.10
	18" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$58.00

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	24" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$83.00
	36" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$161.00
	<u>REINFORCED CONCRETE PIPE (RCP), CLASS 3, INCL EXCAV, BKFL & GASKETS</u>			
87110	12" DIA RCP, 6' LENGHTS, CLASS-3, INCL EXCAV, BKFL & GASKETS	1	LF	\$51.00
	18" DIA RCP, 6' LENGHTS, CLASS-3, INCL EXCAV, BKFL & GASKETS	1	LF	\$65.00
	24" DIA RCP, 8' LENGHTS, CLASS-3, INCL EXCAV, BKFL & GASKETS	1	LF	\$87.00
	36" DIA RCP, 8' LENGHTS, CLASS-3, INCL EXCAV, BKFL & GASKETS	1	LF	\$160.00
	60" DIA RCP, 8' LENGHTS, CLASS-3, INCL EXCAV, BKFL & GASKETS	1	LF	\$317.00
	<u>SELECTIVE DEMOLITION (DEMO) OF WATER & SEWER PIPINGS & FITTINGS (FTG), EXCL EXCAV</u>			
87110	DEMO CONC PIPE, 42"- 48" DIA & FTG, EXCL EXCAV	1	LF	\$55.00
	DEMO CONC PIPE, 60"- 84" DIA & FTG, EXCL EXCAV	1	LF	\$67.00
	DEMO DUCTILE IRON PIPE, 6"- 12" DIA, EXCL EXCAV	1	LF	\$20.50
	DEMO DUCTILE IRON PIPE, 14"- 24" DIA, EXCL EXCAV	1	LF	\$30.10
	DEMO COPPER PIPE, 3/4" - 2" DIA, EXCL EXCAV	1	LF	\$1.80
	DEMO COPPER PIPE, 2 1/2" - 3" DIA, EXCL EXCAV	1	LF	\$4.70
	<u>INDUSTRIAL CHAIN LINK FENCING & WALLS</u>			
	<u>GALVANIZED (GALV) STEEL FENCE, SCHEDULE (SCH) 40, INCL EXCAV & CONCRETE (CONC)</u>			
87210	4' HI, 9 GA GALV STEEL 3-STRANDS BARB WIRE, SCH 40, W/ 2" POSTS @ 10' OC, INCL EXCAV & CONC	1	LF	\$22.30
	6' HI, 9 GA GALV STEEL 3-STRANDS BARB WIRE, SCH 40, W/ 2" POSTS @ 10' OC, INCL EXCAV & CONC	1	LF	\$31.70
	8' HI, 9 GA GALV STEEL 3-STRANDS BARB WIRE, SCH 40, W/ 2" POSTS @ 10' OC, INCL EXCAV & CONC	1	LF	\$41.00
	10' HI, 9 GA GALV STEEL 3-STRANDS BARB WIRE, SCH 40, W/ 2" POSTS @ 10' OC, INCL EXCAV & CONC	1	LF	\$47.80
	FENCE TOPPING, STAINLESS STEEL, HELICAL RAZOR TAPE, 18" DIA x 18" SPACING	100	LF	\$210.00
	<u>ENTRANCE GATES, CHAIN LINK (CL) FENCE GATE, INDUSTRIAL</u>			
87250	CL FENCE GATE 4' WIDE, 6' HIGH, 9 GA WIRE, SCH-20, W/ 2" POSTS, INCL EXCAV & CONC	1	EA	\$410.00
	CL FENCE GATE 12' OPENING, SINGLE (SGL) SWING, 6' HIGH, MANUAL OPRN, INCL EXCAV & CONC,	1	EA	\$899.00

UNIT COSTS For SUPPORT FACILITIES
PAX Newsletter 3.2.2, Part-2 dated 16 May 2016

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).				
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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
	MOTOR OPERATOR FOR 12' OPENING, 6' HIGH, SGL SWING CL GATE	1	EA	\$4,546.00
	CL FENCE GATE 24' OPNG, PAIR, DOUBLE (DBL) SWING, 6' HIGH, MANUAL OPRN, INCL EXCAV & CONC,	1	EA	\$1,767.00
	MOTOR OPERATOR FOR 24' OPENING, PAIR, 6' HIGH, DBL SWING CL GATE	1	EA	\$4,546.00
	CL FENCE GATE 36' OPENING, PAIR, DBL SLIDING, 6' HIGH, MANUAL OPRN, INCL EXCAV & CONC,	1	EA	\$2,208.00
	MOTOR OPERATOR FOR 36' OPENING, PAIR, 6' HIGH, DBL SLIDING GATE	1	EA	\$6,131.00
	<u>CHAIN LINK (CL) FENCE GATE, INDUSTRIAL, INCL EXCAV & CONC</u>			
87250	4' HIGH FENCE, 1-5/8" FRAME, GATE 3' WIDE, 6' HIGH, GALV STEEL, INCL EXCAV, IN CONC	1	EA	\$298.00
	6' HIGH FENCE, 1-5/8" FRAME, GATE 3' WIDE, 6' HIGH, GALV STEEL, INCL EXCAV, IN CONC	1	EA	\$426.00
	8' HIGH FENCE, 1-5/8" FRAME, GATE 3' WIDE, 6' HIGH, GALV STEEL, INCL EXCAV, IN CONC	1	EA	\$566.00
	GATE 10' OPENING, DOUBLE SWING GATE, 8' HIGH, INCL EXCAV, POSTS & HARDWARE IN CONC	1	EA	\$1,819.00
	GATE 24' WIDE, 8' HIGH, OVERHEAD SLIDE, CANTILEVER TYPE, INCL EXCAV, IN CONC	1	EA	\$9,405.00
	<u>SELECTIVE DEMOLITION - CHAIN LINK FENCE & GATES</u>			
87250	DEMO 3' - 4' HIGH FENCE	1	LF	\$2.10
	DEMO 5' HIGH FENCE	1	LF	\$2.40
	DEMO 12' HIGH FENCE	1	LF	\$5.30
	DEMO 3' - 4' WIDE GATE	1	LF	\$71.00
88040	<u>AT/FP VEHICULAR BARRIER</u> - SEE AT THE END			
	<u>FIRE HYDRANTS (FH), 2-WAY, 4-1/2" CUTOFF VALVE,</u> INCL MECHANICAL JOINTS, EXCAV & BKFL			
89240	FIRE HYDRANT 4-6" DEPTH, 2-WAY, 4-1/2" CUT-OFF VALVE, INCL MECH JOINTS, EXCAV & BKFL	1	EA	\$5,352.00
	FIRE HYDRANT 6' DEPTH, 2-WAY, 4-1/2" CUT-OFF VALVE, INCL MECH JOINTS, EXCAV & BKFL	1	EA	\$5,586.00
	FIRE HYDRANT 8' DEPTH, 2-WAY, 4-1/2" CUT-OFF VALVE, INCL MECH JOINTS, EXCAV & BKFL	1	EA	\$5,845.00
	<u>SITE CLEARING & GRADING - CLEARING & GRUBBING</u>			
93210	BRUSH AND STUMP, SURFACE ITEM CLEARING	1	SY	\$1.70
	CLEAR & GRUB, LIGHT TREES TO 6" DIA - CUT, CHIP & HAUL	1	ACRE	\$5,352.00

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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
	CLEAR & GRUB, MEDIUM TREES TO 12" DIA, CUT, CHIP & HAUL	1	ACRE	\$7,664.00
	CLEAR & GRUB, HEAVY TREES TO 24" DIA, CUT, CHIP & HAUL	1	ACRE	\$17,980.00
	GRUB STUMPS & REMOVE, TREES TO 12" DIA	1	ACRE	\$5,897.00
	<u>SITE CLEARING & GRADING - GRADING</u>			
93210	ROUGH GRADING, DUMPED MATERIAL SPREAD BY DOZER, NO COMPACTION	1	LINEAR CY	\$2.60
	FINE GRADING, GRANULER BUBBASE FOR PAVING, +/- 1" COMPACTION, 3 PASSES W/ DOZER, 6" LIFTS	1	SY	\$2.20
	<u>SITE CLEARING & GRADING - BORROW, INCL LOAD AT PIT & HAUL, 2 MILES ROUNFD TRIP, NO COMPACTION</u>			
93210	FLY ASH, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$33.80
	BANK RUN GRAVEL, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$43.10
	SAND, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$61.00
	GRAVEL, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$36.40
	COMMON FILL, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$30.70
	SILT CLAY, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$17.60
	<u>LANDSCAPE AND PLANTING</u>			
	<u>SOIL PREPARATION - TOP SOIL</u>			
93220	MIX & SPREAD CONDITIONED SOIL, SPREAD 4" DEEP BY HAND	1	SY	\$9.50
	SPREAD FERTILIZER, 0.2#/SY BY TRACTOR SPREADER	1,000	SF	\$9.70
	HAUL & SPREAD TOP SOIL, TRUCK DUMPED, INCL MATERIAL, TRANSPORT & PLACEMENT	1	CY	\$7.30
	STRIP TOPSOIL & STOCKPILE ON SITE, 6" DEEP BY 200 HP DOZER, 200' HAUL	1	SY	\$0.50
	<u>SOIL PREPARATION - MULCHING</u>			
93220	HAY, 1" DEEP, POWER MULCHER, LARGE AREA	1,000	SY	\$70.00
	PEAT MOSS, 1" DEEP, TRACTOR SPREADER	1,000	SY	\$364.00
	WOOD CHIPS, 2" DEEP, SKID STEER LOADER	1,000	SY	\$348.00
	WOOD CHIPS, 2" DEEP, HAND SPREAD, SMALL AREA	1	SY	\$4.20

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CAT CODE	ITEM	QTY	UNIT	UNIT COST (\$/UNIT)
	<u>LANDSCAPE & PLANTING - GRASS</u>			
93220	SEEDING - TALL FESCUE, 5.5 LB/1000 SF, TRACTOR SPREADER	1,000	SF	\$32.20
	SEEDING - BLUE GRASS, 4LB/1000 SF, HYDRO OR AIR SEEDING W/ FERTILIZER	1,000	SF	\$62.00
	SODDING - 1" DEEP BLUEGRASS SOD ON LEVEL GROUND	1,000	SF	\$577.00
	<u>LANDSCAPE & PLANTING - PLANTING BED PREPARATION</u>			
93220	EXCAVATE PLANTING PIT, SANDY SOIL, 1/2 CY, BACKHOE	1	CY	\$11.00
	MIX PLANTING SOIL, INCLUDES LOAM, SKID STEER LOADER	1	CY	\$67.00
	REMOVE SOD, ARTICULATED LOADER	1	SY	\$0.70
	<u>LANDSCAPE & PLANTING - GROUND COVER</u>			
93220	PLANTAIN LILY (Hemerocallis Hybrids), ZONE 4, CONTAINER, 1 QUART	1	EA	\$31.70
	MOSS OR CREEPING PHLOX (Phlox Subulata), ZONE 4, CONTAINER, 1 GALLON	1	EA	\$31.70
	STONECROP (Sedum), ZONE 4, CONTAINER, 1 GALLON	1	EA	\$17.90
	<u>LANDSCAPE & PLANTING - SHRUBS, BALLED & BURLAPED (B&B)</u>			
93220	AZALEA EVERGREEN HYBRIDS, ZONE 6, CONTAINER BALLED & BURLAPED, 3 GALLON	1	EA	\$21.30
	COMMON BOXWOOD (Buxus Sempervirens), ZONE 5, CONTAINER BALLED & BURLAPED, 18" TO 24"	1	EA	\$56.00
	WINGED BURNING BUSH (Eunymus Alatus), ZONE 4, CONTAINER BALLED & BURLAPED, 18" - 24"	1	EA	\$29.10
	BLUE HOLLY (Ilex Meserve Blue Holly Hybr), ZONE 5, CONTAINER BALLED & BURLAPED, 18" - 24"	1	EA	\$29.60
	PJM RHODODENDRON, ZONE 4, CONTAINER BALLED & BURLAPED, 18" - 24"	1	EA	\$48.80
	<u>LANDSCAPE & PLANTING - DECIDUOUS TREES</u>			
93220	RED MAPLE (Acer Rubrum), ZONE 4, CONTAINER BALLED & BURLAPED, 1-1/2" To 2" CALIPER	1	EA	\$249.00
	AMERICAN BEECH (Fagus Grandiflora), ZONE 3, CONTAINER B&B, 1-1/2" To 1-3/4" CALIPER	1	EA	\$312.00
	LOMBARDY POPLAR (Populus Nigra Italica), ZONE 4, CONTAINER BALLED & BURLAPED, 5 GALLON	1	EA	\$29.10
	RED OAK (Quercus Rubra), ZONE 4, CONTAINER BALLED & BURLAPED, 5 GALLON	1	EA	\$34.80
	<u>LANDSCAPE - SUBSURFACE DRIP IRRIGATION (SDI)</u>			

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APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).				
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<u>CAT CODE</u>	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST (\$/UNIT)</u>
93220	SDI , LOOPED GRID, REGULAR AREA, LARGE LINE, HAND BURY, PRESSURE COMP PREINSERTED EMITTER	1	LF	\$0.90
	SDI - IRREGULAR IRRIGATED AREA, HAND BURY, PRESSURE COMP PREINSERTED EMITTER IN TRENCH	1	LF	\$0.50
	UNDERGROUND SPRINKLERS IRRIGATION FOR 9 HOLE GOLF COURSE w/ FULLY AUTOMATIC SYS	1	EA	\$258,750.00
	UNDERGROUND SPRINKLERS IRRIGATION, RESIDENTIAL SYSTEM FOR LAWNS, 1-1/2" SUPPLY	1	SF	\$1.60
	<u>DEMOLITION W/ DISPOSAL, BUILDING</u> - INCL 20 MILE HAUL, EXCL FOUNDATION DEMO, HAZARDOUS MATERIAL DEMO, SALVAGE/RECYCLE & DUMP FEES. VOLUME (CF) IS THE VOLUME OF THE ENTIRE BUILDING			
93310	DEMO CONCRETE STRUCTURE (LARGE URBAN PROJECT); CF IS THE VOLUME OF THE ENTIRE BLDG	1	CF	\$0.60
	DEMO STEEL FRAME BUILDING - SMALL OR SINGLE BLDG; CF IS THE VOLUME OF THE ENTIRE BLDG	1	CF	\$0.50
	MASONRY OR WOOD FRAME - SMALL OR SINGLE; CF IS THE VOLUME OF THE ENTIRE BLDG	1	CF	\$0.50
	<u>SELECTIVE DEMOLITION</u> - BUILDING. EXCL DISPOSAL COST, RUBBISH HANDLING COSTS, SALVAGE & DUMP FEES			
93310	DEMO CONC FLOOR SLAB ON GRADE, PLAIN CONC, TO 6" THK, EXCL DISP, SALVAGE & DUMP COSTS	1	SF	\$7.80
	GUTTING COMMERCIAL BLDG. INTERIOR, NO HAZARDOUS MATERIAL DEMO OR DUMPSTER FEES	1	SF	\$11.80
	LEAD BASED PAINT (LBP) REMOVAL BY CHEMICALS & DISPOSAL, CABINETS & WALLS SIMPLE DESIGN	1	SF	\$18.50
	NOTE: LBP 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 LANDFILL.			
	<u>RUBBISH HANDLING- DISPOSAL COST.</u>			
93310	DUMPSTER FEE, AVERAGE OF ALL SIZES (Note: TO BE ADD TO DEMO COST)	1	TON	\$110.00
	RUBBISH HANDLING, 50' HAUL, INCL LOADING, HAUL TO CHUTE & DUMPING TO CHUTE	1	CY	\$42.60
	<u>SELECTIVE BUILDING MATERIAL RECYCLE</u>, INCL SALVAGE LABOR			
93310	SALVAGE WOOD FLOOR, INCL SALVAGE LABOR FOR DENAILING & PACKAGING	1	SF	\$5.70
	SALVAGE CARPET, INCL SALVAGE LABOR	1	SF	\$0.50
	<u>DEMOLITION - PAVEMENTS. REMOVE PAVEMENT & CURB, EXCL HAULING & DISPOSAL FEES</u>			
93310	DEMO & REMOVE CONC PVMT & CURB, TO 6" THK, MESH REINF, EXCL HAULING & DISPOSAL FEE	1	SY	\$17.60
	DEMO & REMOVE W/ BACKHOE PLAIN CONC, 7" To 24" THK, EXCL HAULING & DISPOSAL FEE	1	CY	\$136.00

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	DEMO & REMOVE ROD REINF CONC, 7" To 24", EXCL HAULING & DISPOSAL FEE	1	CY	\$187.00
	DEMO & REMOVE BITUMINOUS PVMT, TO 3" THK, EXCL HAULING & DISPOSAL FEE	1	SY	\$6.50
	REMOVE PLAIN CONC CURBS, EXCL HAULING & DISPOSAL FEE	1	LF	\$5.90
	DEMO & REMOVE BITUMINOUS SIDEWALK, 2-1/2" THK, EXCL HAULING & DISPOSAL FEE	1	SY	\$6.60
	<u>MINOR SITE DEMO, EXCL HAULING & DISPOSAL FEE</u>			
93310	DEMO & REMOVE PLAIN CONC SLAB ON GRADE, EXCL HAULING & DISPOSAL FEE	1	SY	\$17.80
	DEMO & REMOVE ROD REINF CONC SLAB ON GRADE, 8" THK, EXCL HAULING & DISPOSAL FEE	1	CY	\$230.00
	DEMO & REMOVE PLAIN CONC, 4" THK, EXCL HAULING & DISPOSAL FEE	1	SY	\$13.20
	<u>CUT AND FILL</u> - BCY = BANKED CUBIC YARDS, ECY = EMBANKMENT CY, LCY = LOOSE CY			
	<u>GRADING, COMMON EARTH:</u>			
93410	FINE GRADING FOR SMALL IRREGULAR AREAS, TO 15,000 SY	1	SY	\$3.20
	FINE GRADING FOR ROADWAYS, BASE OR LEVELLING COURSE, LARGE AREA 6,000 SY OR MORE	1	SY	\$1.00
	SPREAD FILL FILL FROM STOCKPILE W/ FRONT LOADER, 200 H.P DOZER, TO 300' HAUL, NO COMPACTION	1	LCY	\$6.20
	<u>CUT AND FILL:</u> BCY = BANKED CUBIC YARDS, ECY = EMBANKMENT CY, LCY = LOOSE CY			
	<u>EXCAVATION, COMMON EARTH:</u>			
93410	EXCAVATION W/ 105 H.P. BULK DOZER, OPEN SITE 150' HAUL	1	BCY	\$6.20
	EXCAVATION W/ 300 H.P. BULK DOZER, OPEN SITE 150' HAUL	1	BCY	\$4.00
	EXCAVATION W/ 700 H.P. BULK DOZER, OPEN SITE 150' HAUL	1	BCY	\$2.10
	EXCAVATION TRENCH, 18" WIDE, 6' DEEP, OPEN SITE, BY CHAIN TRENCHER, 12 HP	1	BCY	\$1.50
	EXCAVATION TRENCH BY HAND W/ PICK & SHOVEL, 2' TO 6' DEEP, HEAVY SOIL, NO DEWATERING	1	BCY	\$128.00
93410	HAUL BY 8 CY TRUCK, CYCLE 6 MILES AT 30 MPH, 10 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$5.90
	HAUL BY 8 CY TRUCK, CYCLE 4 MILES AT 30 MPH, 10 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$4.80
	HAUL BY 8 CY TRUCK, CYCLE 4 MILES AT 30 MPH, 15 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$6.20
	HAUL BY 12 CY TRUCK, CYCLE 10 MILES AT 30 MPH, 25 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$11.50
	HAUL BY 16.5 CY TRUCK, CYCLE 10 MILES AT 30 MPH, 30 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$9.70

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	HAUL BY 20 CY TRUCK, CYCLE 8 MILES AT 30 MPH, 30 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$7.30
	HAUL BY 12 CY TRUCK, EXCAVATED OR BORROW MATERIAL, 2 MILE ROUND-TRIP, 2.2 LOADS/HR	1	LCY	\$9.70
93410	BACKFILL & COMPACTION, TRENCH 6" TO 12" LIFTS, DOZER BKFL, CMPCT W/ SHEEPSFOOT ROLLER	1	ECY	\$4.80
	BACKFILL & COMPACTION, DOZER BKFL, ROLLER CMPCT IN 12" LAYERS	1	ECY	\$7.80
	BACKFILL & COMPACTION, DOZER BKFL, CMPCT W/ VIBRATING ROLLER	1	ECY	\$4.40
	BACKFILL & COMPACTION, BY HAND, HEAVY SOIL	1	LCY	\$56.00
93410	DRILLING & BLASTING, HARD ROCK, UPTO 1500 CY, MACHINE DRILL, DEEP HOLE METHOD	1	BCY	\$78.00
	RIP SHALE- MEDIUM HARD, BY 180 H.P REAR RIPPER & LOAD	1	BCY	\$62.00
88040	<u>AT/FP VEHICULAR BARRICADES</u>			
	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 barrie			
	K12 = 50 mph (88 kph); L3 = 3'-0" (915 mm) K8 = 40 mph (65 kph) K4 = 30 mph (48 kph)			
	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, traffic arm, & traffic lights. Costs for CCTV, Cameras, Alarms, ETC not included.			
	<u>CONCRETE PLANTER</u> - VEHICLE BARRIER, STOPS 4,000 LB VEHICLES AT 40 MPH (K-8 BARRIER)			
88040	CONC PLANTER, ROUND, EXPOSED AGGR FINISH, 36" DIA x 30" HIGH, NO FILL MATERIAL	1	EA	\$883.00
	CONC PLANTER, RECTANGULAR, EXPOSED AGGR FINISH, 96" L x 24" W x 36" H, NO FILL MATERIAL	1	EA	\$1,169.00
	CONC PLANTER, ROUND, EXPOSED AGGR FINISH, 84" DIA x 36" HIGH, NO FILL MATERIAL	1	EA	\$1,767.00
	CONC BARRIER, DECORATIVE GEOMETRIC DESIGN, 96" L x 24" W x 36" H, NO FILL MATERIAL	1	EA	\$1,845.00
	<u>GLASS FIBER REINFORCED CONCRETE SECURITY BARRIERS</u> (GFRC) , STOPS 4,000 LB VEHICLE AT 40 MPH			

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88040	CONC FILLED GFRC, DECORATIVE IMPALER, 10' SECTION, INCL SITE PREPRATION ON BARE GROUND	1	EA	\$3,299.00
	CONC FILLED GFRC, DECORATIVE IMPALER, 12' SECTION, INCL SITE PREPRATION ON BARE GROUND	1	EA	\$3,845.00
	GFRC DECORATIVE JERSEY BARRIER COVER, 12' SECTION, EXCL FILLING MATERIALS (SOIL)	1	EA	\$1,663.00
	CONC FILLED PAINTED PIPE BOLLARD, 8' L x 4' D HOLE, 8" DIAMETER	1	EA	\$1,247.00
	<u>CRASH BARRIERS</u>, STOPS 15000 LB VEHICLE @ 50 MPH, INCL ALL LABOR, MATERIAL & EQUIP (LME) FOR COMPLETE INSTALLATION			
88040	20' WIDE DROP ARM CRASH BARRIER, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$80,540.00
	24' WIDE DROP ARM CRASH BARRIER, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$107,550.00
	12' WIDE PORTABLE WEDGE CRASH BARRIER, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$135,090.00
	20' WIDE SLIDING ROLLER CRASH BARRIER, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$246,800.00
	20' WIDE SLIDING CANTILEVER CRASH BARRIER, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$246,800.00
	<u>RAISED BOLLARD CRASH BARRIER</u>, INCL ALL LABOR, MATERIAL & EQUIP (LME) FOR COMPLETE INSTALLATION			
88040	10' WIDE, RAISED BOLLARD CRASH BARRIER, STANDARD POWER, INCL ALL LME FOR COMPL INSTAL	1	EA	\$48,630.00
	12' WIDE, RAISED BOLLARD CRASH BARRIER, STANDARD POWER, INCL ALL LME FOR COMPL INSTAL	1	EA	\$55,600.00
	10' WIDE, RAISED BOLLARD CRASH BARRIER, SOLAR POWER, INCL ALL LME FOR COMPL INSTAL	1	EA	\$59,230.00
	12' WIDE, RAISED BOLLARD CRASH BARRIER, SOLAR POWER, INCL ALL LME FOR COMPL INSTAL	1	EA	\$65,990.00
	INGROUND TIRE SHREDDER, 15' WIDE, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$51,850.00

CHART C, METRIC/ENGLISH SYSTEMS

<u>QUANTITY</u>	<u>FROM</u>			<u>TO OBTAIN</u>
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 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 &	kilowatthour		3.600000	megajoule
WORK	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
	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 (UFC 3-700- 01, Table 4-2), PAX Newsletter 3.2.2, dated 16 May 2016
 TRI-SERVICE MILITARY CONSTRUCTION PROGRAM (MCP) INDEX FOR FY 2017-21 PROGRAMS
 Based on Interim Inflation Guide - 2017 Pres Bud Published by OUSD (Comptroller) on 12 Feb 2016**

<u>FISCAL YEAR (FY)</u>	<u>DATES</u>	<u>INDEX</u>	<u>ESCALATION PERCENTAGE FOR FISCAL YEAR</u>
FY 2015	1-Oct- 2014 -----	2715	-----FY15 (1.6%)
	1-Jan- 2015 -----	2726	
	1-Apr- 2015 -----	2737	
	1-Jul- 2015 -----	2748	
FY 2016	1-Oct- 2015 -----	2758	-----FY16 (1.8%)
	1-Jan- 2016 -----	2771	
	1-Apr- 2016 -----	2783	
	1-Jul- 2016 -----	2796	
FY 2017	1-Oct- 2016 -----	2808	-----FY17 (1.9%)
	1-Jan- 2017 -----	2822	
	1-Apr- 2017 -----	2835	
	1-Jul- 2017 -----	2848	
FY 2018	1-Oct- 2017 -----	2861	-----FY18 (2.0%)
	1-Jan- 2018 -----	2876	
	1-Apr- 2018 -----	2890	
	1-Jul- 2018 -----	2904	
FY 2019	1-Oct- 2018 -----	2918	-----FY19 (2.0%)
	1-Jan- 2019 -----	2933	
	1-Apr- 2019 -----	2947	
	1-Jul- 2019 -----	2962	
FY 2020	1-Oct- 2019 -----	2976	-----FY20 (2.0%)
	1-Jan- 2020 -----	2991	
	1-Apr- 2020 -----	3006	
	1-Jul- 2020 -----	3021	
FY 2021	1-Oct- 2020 -----	3036	-----FY21 (2.0%)
	1-Jan- 2021 -----	3052	
	1-Apr- 2021 -----	3067	
	1-Jul- 2021 -----	3082	
FY 2022	1-Oct- 2021 -----	3097	

Notes

1. Use **2.0%** per fiscal year for projection beyond **FY 2021**
2. Tri - Service MCP Index (1,000) = 1 October 1979 ENR Historical Building Cost
3. The MCP indexes after 1 Oct 2013 were derived using the Price Escalation Indices (Annual Rates in Percentages) for Budget Authority published in the 12 Feb 2016 Interim Inflation Guidance - Fiscal Year (FY) 2017 President's Budget.
4. This revised index table supersedes the MCP index table published as Appendix-C to PAX Newsletter 3.2.2, dated **30 September 2015**.

TABLE I - SIZE ADJUSTMENT FACTORS

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

<u>SIZE RATIO</u>	<u>ADJUST FACTOR</u>	<u>SIZE RATIO</u>	<u>ADJUST FACTOR</u>	<u>SIZE RATIO</u>	<u>ADJUST FACTOR</u>	<u>SIZE RATIO</u>	<u>ADJUST FACTOR</u>
< 0.05	1.2750	0.9000	1.0110	1.8000	0.9490	2.7000	0.9250
0.0500	1.2750	0.9500	1.0050	1.8500	0.9470	2.7500	0.9240
0.1000	1.2690	1.0000	1.0000	1.9000	0.9450	2.8000	0.9240
0.1500	1.2320	1.0500	0.9950	1.9500	0.9430	2.8500	0.9230
0.2000	1.2020	1.1000	0.9900	2.0000	0.9420	2.9000	0.9220
0.2500	1.1750	1.1500	0.9860	2.0500	0.9400	2.9500	0.9210
0.3000	1.1520	1.2000	0.9820	2.1000	0.9390	3.0000	0.9210
0.3500	1.1320	1.2500	0.9780	2.1500	0.9370	3.0500	0.9200
0.4000	1.1140	1.3000	0.9740	2.2000	0.9360	>3.05	0.9200
0.4500	1.0980	1.3500	0.9710	2.2500	0.9350		
0.5000	1.0840	1.4000	0.9680	2.3000	0.9330		
0.5500	1.0720	1.4500	0.9650	2.3500	0.9320		
0.6000	1.0600	1.5000	0.9620	2.4000	0.9310		
0.6500	1.0500	1.5500	0.9600	2.4500	0.9300		
0.7000	1.0410	1.6000	0.9570	2.5000	0.9290		
0.7500	1.0330	1.6500	0.9550	2.5500	0.9280		
0.8000	1.0250	1.7000	0.9530	2.6000	0.9270		
0.8500	1.0180	1.7500	0.9510	2.6500	0.9260		

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		