#### ARMY FACILITIES PRICING GUIDE, PAX NEWSLETTER 3.2.2, Dated 21 May 2021



#### Part I and II (Building and Support Facilities)

This Newsletter Supersedes the Army Facilities Pricing Guide, PAX Newsletter No. 3.2.2, revision dated 20 March 2020, 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 FY23 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

**NOTE/Caution**: Due to the diminishing number of MILCON projects in the recent years, some guidance unit costs (UC) listed in the 2021 PAX Newsletter are published with less than 3 projects during the recent years due to the significance of those category codes (CatCode) in the upcoming MCA program. UC for those facility types are annotated in the "Remark" column with the number of projects such costs were based on. PAX UC users must be aware of this shortcoming if using these UC as guidance unit cost. If accepted by the ENG3086 reviewers and G-9, unit costs developed from similar and awarded projects at another installation may be used as a basis.

#### A. PART-I – PRIMARY FACILITIES UNIT COSTS, dated 21 May 21

- A.1. The Unit Costs in Part-1 Table represent the dollar per square foot cost as of 1 October 2023 for various CONUS Army facility types (to include projects from Alaska and Hawaii) that were awarded between FY 2018-20 and at least 3 projects per building type were entered into the Historic Analysis Generator (HII) database by 1 Oct 2020. When less than three (3) recent projects were awarded and entered into the HII database between 2018-2019 for a specific facility type (CatCode), then the last four (4) years (2017-2020) 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, Average size for that facility type, and 1 Oct 2020 price level using the actual construction inflation index as obtained from the DoD Selling Price Index. <u>Unit Costs</u> in the PAX Newsletter Table are escalated to <u>1 Oct 2023</u>, the assumed mid-point of construction for a typical FY 2023 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 2023, as shown in the following example for a project with a mid-point of 1 April 2024:

Anticipated Midpoint of Construction for a given project = 1 April 2024 MCP Indexes for 1 Oct 2023 and 1 Apr 2024 from Appendix-C, are 3219 and 3251 respectively Cost Escalation Factor = 1 Apr 2024 MCP Index / 1 Oct 2023 MCP Index = 3251/3219 = 1.0099

- A.3. Facilities with PAX Newsletter guidance unit costs are assumed to <u>include</u> 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.
  - 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 <u>NOT</u> 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 2013.
  - 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 be set as 1 in PC-Cost/ENG3086 software.
- A.6. Average facility size shown in Part-I, Table may or may not be identical to the size/sizes listed in the Center of Standardization (COS) websites. Table-1, Size Adjustment Factor, which shows correlation between project size and construction cost, should be used to determine the appropriate project cost.

#### B. PART-II – SUPPORT FACILITIES UNIT COSTS, dated 21 May 2021

- 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.
- B.3 Points of contact for this Newsletter at the US Army Corps of Engineers are: Ms. Tracy Leeser (HQUSACE), (202) 761 7750, e-mail Tracy.T.Leeser@usace.army.mil and alternate POC, Mr. Bryan Simpkins (CEHNC-EDS-C), (256) 895 5505, e-mail Bryan.Simpkins@usace.army.mil

Facility	Unit Costs (UC) are average unit costs based on the most Recent 4-Year (2017-2	0) project award	ls per buildin	g type.	
All UC's	are the average unit costs for new construction, escalated to 1 Oct 2023, using t	the Inflation Gu	idance for		
FY 2022	2 President's Budget, <b>08 April 2021</b> and Normalized to an Area Cost Factor of 1	. Please refer to	the "Notes"	in the Remarks Column of Ta	able.
					Remarks
G A T		Facility	Unit Of	FY22 Unit Cost	Note-1: No data or Not enough useable Army Bid Data since 2016 to forecast UC.
CAT CODE	Description	Average or Standard Size	Measure (UoM)	(\$ / UoM)	Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.  Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
13115	Information Systems Facility		SF	683.00	
13115	Houses majority of Garrison level Info Management & Info Tech services plu	44,450		l .	Ref size & UC based on project data in HII Published w/1 Norfolk COS approved data point.
13120	Communications Center	37,000			S., N., 2, U.C. 9, D., C.; -, 1, -, 1, -, CUC / DOD C.; 1, -, -
13120			SF		See Note-3: UC & Ref Size based on GUC / DOD Guidance.
12120	Hub facility for Internal & External Communications, commercial telephone				
13120	Remote Switching Unit (RSU)  Information Processing Center	XX	SF		See Note-1. Insufficient recent cost data.
13131	Information Processing Center	XX	SF		See Note-1. Insufficient recent cost data.
12101	Also called Data processing Ctr. Houses personnel & equipment for data-pro Satellite Terminal Communications Facility				
13181	·	XX	SF		See Note-1. Insufficient recent cost data.
13310 14110	Air Traffic/ Flight Control Tower	10,316	SF	1,137.00 XX	Ref size & UC based on project data in HII Published w/1 SAS COS approved data point.
14110	Airfield Operations (Ops) Building	XX	SF	AA	See Note-1. Insufficient recent cost data.
14110	Houses flight operations and Airfield HQ functions with or w/o Flight Control		CIE.	225.00	N. A. MO O. D. COI. A. A. A. CHO / DOD / Tria
14112	Aviation Unit Ops Bldg at Airfield	47,000	SF	325.00	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
14112	Houses Aviation Unit HQ admin, training, and storage area.	<b>3737</b>	CIT.	VV	
14113	Access Control Facility - Mission Trng Complex	XX	SF		See Note-1. Insufficient recent cost data.
14113	Access Control Facility (ACF) Complex (Reference Sizes are the Average size Visitors Control Center		<u>,                                      </u>	·	
		2,960	SF		Ref size & UC based on project data in HII Published w/1 Omaha COS approved data point.
	Search Office/ Sentry Building Gatehouse	660	SF		Ref size & UC based on project data in HII Published w/1 Omaha COS approved data point.
	Guard booth (Also called Guardhouse)	933 VV	SF SF		Ref size & UC based on project data in HII Published w/1 Omaha COS approved data point.  See Note-1. Insufficient recent cost data.
	Overwatch Guard Booth	36	SF SF	2,246.00	
	POV Search Canopy	1,530	SF SF	,	Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.
	I.D. Check Area Canopy	9,152	SF SF	137.00	Ref size & UC based on project data in HII Published w/1 Omaha COS approved data point.  Ref size & UC based on project data in HII Published w/1 Omaha COS approved data point.
	Search Area Canopy - Truck	2,340	SF SF		Ref size & UC based on project data in HII Published w/1 Omaha COS approved data point.  Ref size & UC based on project data in HII Published w/1 Omaha COS approved data point.
14114	CIDC Field Operations Bldg	5,727	SF		Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.
14114	Kennel Facilities	XX	SF SF	XX	
14129	Training Aid Spt Ctr for Range Complex	XX	SF		See Note-1. Insufficient recent cost data.
14132	Ready Building-Airfield Arrival/Depart Control Fac	XX	SF	XX	See Note-1. Insufficient recent cost data.
14161	Emergency Operations Ctr (EOC)	XX	SF		See Note-1. Insufficient recent cost data.
	Sensitive Compartmented Info Fac (SCIF)	XX	SF		See Note-1. Insufficient recent cost data.
14165	Vehicle Maintenance Wash Facility: Consists of Wash Bays, Prewash Control,				See I (ote II Insurincem recent cost data)
	Control Bld for Vehicle Wash Rack	XX	SF		See Note-1. Insufficient recent cost data.
	Pump Bld for Vehicle Wash Rack	XX	SF		See Note-1. Insufficient recent cost data.
	Gravity Oil & Grease Separator	XX	KGD		See Note-1. Insufficient recent cost data.
	Water & Grit Separator	XX	KGD		See Note-1. Insufficient recent cost data.
14179	Overhead Protection/Canopy - General	XX	SF		see CC 14179 for Covered Hardstand (Canopy) under COF below
14182	Brigade (BDE) Headquarters Bldg	XX	SF		See Note-1. Insufficient recent cost data.
	Use Size Adj Table-1, Part-1 to determine unit cost for other sizes (Small, Medium a	and X-Large) BDI	E HQs. UC do	es Not include new SCIF reqm c	cost
14183	Battalion (BN) HQ Bldg w/Classrooms	30,000	SF	481.00	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
	Use Size Adj Table-1, Part-1 to determine unit cost for other sizes (Small, Large and				
	BN HQ - Transient Training (ORTC)	XX	SF	XX	See Note-1. Insufficient recent cost data.

Facility	Unit Costs (UC) are average unit costs based on the most Recent 4-Year (2017-2	0) project award	ls per building	g type.	
All UC's	are the average unit costs for new construction, escalated to 1 Oct 2023, using t	he Inflation Gui	dance for		
FY 2022	2 President's Budget, <b>08 April 2021</b> and Normalized to an Area Cost Factor of 1	. Please refer to	the "Notes" i	in the Remarks Column of Ta	able.
		Facility	Unit Of	FY22	Remarks Note-1: No data or Not enough useable Army Bid Data since 2016 to forecast UC.
CAT		Average or	Measure	Unit Cost	Note-1: No data of Not chough useable Army Bid Data since 2016 to forecast UC.  Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.
CODE	Description	Standard Size	(UoM)	(\$ / UoM)	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
14185	COMPANY OPERATIONS FACILITY (COF)				COF Ref Size varies based on AM & RM configuration
	Admin & Readiness Modules are usually combined for small 1-Company (150	soldiers) or 2-C	CO (300 soldie	ers @150 PN/Company Unit	· · · · · · · · · · · · · · · · · · ·
	companies, Admin (AM) and Readiness Modules (RM) are normally detached				·
	The cost of contractor furnished and installed TA 50 Lockers are included in the	ne UC. Admin a	and Readiness	Modules may be programme	ed separately in DD1391/ENG3086
14185	Admin/Readiness - Integrated Module	26,412	SF	350.00	Ref size & UC based on project data in HII Published w/2 Savannah COS approved data point.
14185	Admin Module (AM) - Detached	XX	SF	XX	
14185	Readiness Module (RM) - Detached	XX	SF	XX	See Note-1. Insufficient recent cost data.
			~-		
14179	Canopy for Covered Hardstand (Not Enclosed)	XX	SF		See Note-1. Insufficient recent cost data.
14170	Includes the cost of Canopy, supporting posts, their foundations and Hardstand Enclosed Hardstand (for extreme climates)				
		XX	SF		See Note-1. Insufficient recent cost data.
14190	Command & Control Fac (C2F)	130,000	SF		Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
	Division and Corps Level Command & Control Bld for a all service compone				
	and SCIF spaces (does Not include new SCIF reqm cost ) The costs of raised	Hooring, redun	dant electrica	mechanicai systems, and se	ecured access system are included.
14190	C2F Bldg above Corps level is a non-standard facility.  Army Command (ACOM) Headquarters	90,000	SF	480.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.
	Wash Rack / Platform - Army Reserve Centers	1,428	SF	139.00	Use for 1001-1600 SF Wash Racks. Based on 1 Army Reserve Center projects Approved by Louisville COS.
14955 14960	Grease Rack - Low Pressure w/Wash Water Treatment	1,428 XX	EA	139.00 XX	
14962	Central Wash Facility, 16 Stations	XX	EA	XX	
14970	Bi-Level Loading Ramp, Army Reserve Centers	1	EA	185,272.00	Ref size & UC based on project data in HII Published w/2 Louisville COS approved data point.
14970	Single Level Loading Ramp, Army Reserve Centers	XX	EA		See Note-1. Insufficient recent cost data.
14970	Ammo Loading Dock for Range	XX	EA		See Note-1. Insufficient recent cost data.
14970	Vehicle Instrumentation Dock, 900 SF	XX	EA		See Note-1. Insufficient recent cost data.
17120	General Instruction Bldg (GIB) & Total Army School (TASS) - Not for Range	45,670	SF	279.00	Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.
	RANGE FACILITIES COMPLEX				
	A typical Range Complex consists of Target Emplacements/Firing Points, Ra	nge Ops and Co	ontrol Area, ar	nd a number of vertical	
	structures, such as, Control Tower, Range Ops & Storage Bld, Range Classro				
	plus other covered (but not enclosed) structures, e.g. Covered Bleachers, Cov				
14113	Access Control Fac - Mission Trng Complex	XX	SF	XX	See Note-1. Insufficient recent cost data.
14129	Training Aid / Support Center (TSC)	XX	SF	XX	See Note-1. Insufficient recent cost data.
14970	Ammunition Loading Dock - Single Level for Ranges	XX	EA	XX	See Note-1. Insufficient recent cost data.
14970	Loading Dock - Bi-Level for Army Reserve Centers	1	EA	185,272.00	Ref size & UC based on project data in HII Published w/2 Louisville COS approved data points.
48454	Indoor Eining Donor	26,000	(IT)	220.00	G., N., C. U.G. B. C.G., J., C.U.G./D.C.G. C.
17121	Indoor Firing Range	36,000	SF	329.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.  Deficies & UC based on project data in UU Published vs/2 Hyptovilla COS approved data point.
17122	Ammunition Breakdown Bldg	185	SF	1,002.00	Ref size & UC based on project data in HII Published w/2 Huntsville COS approved data point.
17122 17122	Operations/Storage Bld - Small Operations/Storage Bld - Large	800 XX	SF SF	137.00 XX	Ref size & UC based on project data in HII Published w/1 Huntsville COS approved data point.  See Note-1. Insufficient recent cost data.
1/1/2	Operations/Storage Did - Large	ΛΛ	Sr	AX	See Note-1. Insufficient recent cost data.
17123	Range Classroom Building	800	SF	206.00	Ref size & UC based on project data in HII Published w/1 Huntsville COS approved data point.
17123	After Action Review (AAR) Bld - Small	XX	SF		See Note-1. Insufficient recent cost data.
17123	After Action Review (AAR) Bld - Large	XX	SF		See Note-1. Insufficient recent cost data.
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Facility	ility Unit Costs (UC) are average unit costs based on the most Recent 4-Year (2017-20) project awards per building type.							
	C's are the average unit costs for new construction, escalated to 1 Oct 2023, using the Inflation Guidance for							
	2 President's Budget, <b>08 April 2021</b> and Normalized to an Area Cost Factor of 1			n the Remarks Column of Ta	able.			
CAT CODE	Description	Facility Average or Standard Size	Unit Of Measure (UoM)	FY22 Unit Cost (\$ / UoM)	Note-1: No data or Not enough useable Army Bid Data since 2016 to forecast UC.  Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.  Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.			
17123	Combined ROC/AAR-Digital Range	XX	XX	XX	See Note-1. Insufficient recent cost data.			
17139	Covered Mess - Range (Small)	800	SF	227.00	Includes hardstand cost below canopy. Ref size & UC based on project data in HII Published w/ 1 Huntsville COS approved data point.			
17139	Covered Mess - Range (Large)	XX	XX	XX				
17139	Covered Mess - Service Schools	XX	XX	XX				
17213	Mission Command Trng Center (formerly BCTC)	66,000	SF	432.00	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.			
17801	Basic 10-25m Firing Range (Zero)	FP	EA		Requires 32 Firing Points (FP)			
17805	Automated Record Fire Range	FP	EA		Requires 16 FPs			
17806	Modified Record Fire Range	FP	EA	XX Site Consider				
17821	Combat Pistol/MP Firearms Qualifications Urban Assault Course	FP FP	EA EA	Site Specific				
17878 17879	Live Fire Exercise Shoot house	FP	EA EA	Site Specific Site Specific	Requires 5 Stations. Each station represents one FP  Requires 10 FPs, each room and Corridor equals 1 FP			
1/8/9	Live File Exercise Shoot house	FF	EA	Site Specific	Requires 10 FFS, each footh and Corridor equals 1 FF			
	Range Control Towers (RCT)							
	Open Observation decks, stairs, and walkways are calculated as half areas. Foundation cost is included in the Unit Cost.		e Unit Cost.					
17971	Control Tower - Standard Instrumented	1	EA	730,318.00	Ref size & UC based on project data in HII Published w/1 Huntsville COS approved data point.			
17971	Control Tower - Standard Small Arms	1	EA	273,630.00	Ref size & UC based on project data in HII Published w/1 Huntsville COS approved data point.			
1/9/1		1	EA	273,030.00	Ref size & Ge based on project data in thi I donsned w/1 Huntsvine eGS approved data point.			
73075	Field Latrine - Dry Type, Aerated Vault	330	SF	531.00	Ref size & UC based on project data in HII Published w/1 Huntsville COS approved data point.			
73075	Field Latrine -Wet Closet	550	SF	1240.00	Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.			
70070			~ 1		2. East your a district of the control of the contr			
75061	Covered Bleacher - Range (Bleacher Enclosure)	1	EA	217,206.00	Ref size & UC based on project data in HII Published w/1 Huntsville COS approved data points.			
75061	Covered Bleacher for Svc Schools	XX	EA	XX				
17133	Vehicle Maint. Instructional Bldg	XX	SF	XX	See Note-1. Insufficient recent cost data.			
17134	Aircraft Maint Instructional Bldg	XX	SF	XX	See Note-1. Insufficient recent cost data.			
17135	Laboratory Instructions Bldg	XX	SF	XX	See Note-1. Insufficient recent cost data.			
17136	Automation Aided Instruction Bldg	XX	SF	XX	See Note-1. Insufficient recent cost data.			
17137	Material Handling Instructional Bldg	XX	SF	XX	See Note-1. Insufficient recent cost data.			
	ARMY RESERVE CTR COMPLEX							
17140	Training Bldg - Army Reserve (Army Res Ctr Bldg) (All)	45,000	SF	371.00	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.			
17140	Training Bldg - Army Reserve (Army Res Ctr Bldg) (w/Kitchen)	56,991	SF	328.00	Ref size & UC based on project data in HII Published w/5 Louisville COS approved data points.			
17140	Training Bldg - Army Reserve (Army Res Ctr Bldg) (wo/Kitchen)	23,500	SF	455.00	Ref size & UC based on project data in HII Published w/1 Louisville COS approved data points.			
17211	Simulator Building - Army Reserve	8,600	SF	612.00	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.			
14970 21409	Loading Dock, Bi-Level (Also called Loading Ramp)  Organizational Maintanance Shop (OMS) Small	5,368	EA SF	185,272.00	Ref size & UC based on project data in HII Published w/2 Louisville COS approved data points.  Ref size & UC based on project data in HII Published w/3 Louisville COS approved data points.			
21409	Organizational Maintenance Shop (OMS) Small Organizational Maintenance Shop (OMS) Medium	5,368 10,606	SF SF	363.00 317.00	Ref size & UC based on project data in HII Published w/3 Louisville COS approved data points.  Ref size & UC based on project data in HII Published w/1 Louisville COS approved data points.			
44220	Storage Building, Unheated	4,191	SF SF	136.00	Ref size & UC based on project data in HII Published w/4 Louisville COS approved data points.  Ref size & UC based on project data in HII Published w/4 Louisville COS approved data points.			
17211	Simulator Building, Small <18,000 SF	8,600	SF		Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.			
17211	Simulator Building, Large >18,000 SF	66,000	SF	432	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.			
17971	Control/Observation Tower	XX	EA	See Range				
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All UC's	are the average unit costs for new construction, escalated to 1 Oct 2023, using	the Inflation Gui	idance for					
FY 202	2 President's Budget, <b>08 April 2021</b> and Normalized to an Area Cost Factor of	1. Please refer to	the "Notes" i	n the Remarks Column of Ta	able.			
		<b>.</b>	<b>T</b> T 1: 0.0	T.Y. 144	Remarks No. 1 No.			
CAT		Facility Average or	Unit Of Measure	FY22 Unit Cost	Note-1: No data or Not enough useable Army Bid Data since 2016 to forecast UC.  Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.			
CODE	Description	Standard Size	(UoM)	(\$ / UoM)	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.			
	AIRCRAFT (AC) MAINT HANGARS - DOD, reference only		, ,	,				
21110	Hangar - General Purpose, up to 40' high	120,000	SF	381.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.			
21110	Hangar - High Bay, >40' high	200,000	SF	416.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.			
	ARMY HANGAR STANDARDS _ Manned and Unmanned Army Hangar Facilities	<b> </b>						
	Army Standard Hangars include High Bay Maintenance area, Allied Shops, Tech Su	pply, Tool Storage	, Flight Operati	ions and Company Administrati	ive & Supply spaces.			
21110	Assault / Attack - Reconnaissance (AAB) BN Hangar	XX	SF	XX	See Note-1. Insufficient recent cost data.			
21110	General Support Aviation BN (GSAB) Hangar	XX	SF	XX	See Note-1. Insufficient recent cost data.			
21110	Aviation Support Aviation BN (ASB) Hangar	XX	SF	XX	See Note-1. Insufficient recent cost data.			
21115	Unmanned Aerial System (UAS) Hangar	28,100	SF	441.00	Ref size & UC based on project data in HII Published w/ 1 Mobile COS approved data points.			
21113	Aircraft Parts Storage	10,000	SF	196.00	Ref size & UC based on project data in HII Published w/3 Mobile COS approved data point.			
21117	Aircraft Electronic - Avionics Maint Shop	XX	SF	XX	See Note-1. Insufficient recent cost data.			
21120	Aircraft Component Repair Shop (Machine Shop)	XX	SF	XX	See Note-1. Insufficient recent cost data.			
21130	Aircraft Paint / Corrosion Control Shop	100,000	SF	464.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.			
21140	Aircraft Engine Test facility	XX	SF	XX	See Note-1. Insufficient recent cost data.			
	TACTICAL EQUIPMENT MAINT FACILITY (TEMF) COMPLEX For Track & Wheeled Ve	<u>hicles</u>						
	TEMF Complex includes Admin space, Repair & Maintenance shops and work-bays	w/ overhead crane	e, arms/COMS	EC vault Storage areas, Deploy	ment Storage bldg, POL Storage			
	bldg, Tactical Vehicle Parking Apron, and Hazard Waste Storage area.							
	ORGANIZATIONAL MAINT SHOP - ARMY RESERVE							
21409	Organizational Maint Shop, Small <10,000 SF	5,368	SF	363.00	Ref size & UC based on project data in HII Published w/ 3 Louisville COS approved data points.			
21409	Organizational Maint Shop, Medium 10,000 - 40,000 SF	10,606	SF	317.00	Ref size & UC based on project data in HII Published w/1 Louisville COS approved data points.			
21409	Organizational Maint Shop, Large, >40,000 SF	92,221	SF	312.00	Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.			
	ORGANIZATIONAL MAINT SHOP - REGULAR ARMY							
21410	TEMF, Small - Army, Regular, <21,000 SF	8,000	SF	395.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.			
21410	TEMF, Medium - Army, Regular, >21,000 SF	XX	SF	XX	See Note-1. Insufficient recent cost data.			
21410	TEMF, Large - Army, Regular	54,879	SF	290.00	Ref size & UC based on project data in HII Published w/ 1 Savannah COS approved data point.			
21410	TEMF, Extra Large - Army, Regular, >60,000 SF	XX	SF	XX	See Note-1. Insufficient recent cost data.			
21412	Unmanned Aerial Vehicle (UAV) Storage Bld, 18' high	XX	SF	XX	See Note-1. Insufficient recent cost data.			
21470	POL Storage Bldg - TEMF	512	SF	408.00	Ref size & UC based on project data in HII Published w/ 4 Savannah COS approved data points.			
21470	Hazardous Waste Storage Bldg - TEMF	570	SF	491.00	Ref size & UC based on project data in HII Published w/ 2 Savannah COS approved data points.			
44135	Hazardous Material Storage Bldg - TEMF	XX	SF	XX	Use the same UC as CATCD 21470 above			
44220	Storage Bldg - Small, Unheated - Army Reserve	XX	SF	XX	See CATCD 44220 under ARCC			
44222	Storage Shed (Covered, not Enclosed), ORTC  Organizational Storage Pldg. TEME < 5,000 SE	XX	SF		See Note-1. Insufficient recent cost data.			
21412	Organizational Storage Bldg - TEMF, < 5,000 SF	XX 6.365	SF	XX 216.00	See Note-1. Insufficient recent cost data.  Pof ciza & LIC based on project data in HII Published w/ 2 Savenneh COS enproved data points.			
21412	Organizational Storage Bldg - TEMF, > 5,000 SF	6,365	SF	216.00	Ref size & UC based on project data in HII Published w/ 2 Savannah COS approved data points.			
21610	Ammunition Repoyation Shop	XX	SF	VV	See Note-1. Insufficient recent cost data.			
21610	Ammunition Renovation Shop  Ammunition Surveillance Shop	XX	SF SF		See Note-1. Insufficient recent cost data.  See Note-1. Insufficient recent cost data.			
21612	Ammunition Surveillance Snop  Ammunition Demilitarization Fac	XX	SF SF		See Note-1. Insufficient recent cost data.  See Note-1. Insufficient recent cost data.			
21710	Electronics Maint Shop - Depot Level	XX	SF		See Note-1. Insufficient recent cost data.  See Note-1. Insufficient recent cost data.			
41/10	Discussificant shop - Depot Level	ΛΛ	SF	AA	DOC POLO-1. HISUITIONIL TOOK OOL GAIA.			

Facility Unit Costs (UC) are average unit costs based on the most Recent 4-Year (2017-20) project awards per building type. All UC's are the average unit costs for new construction, escalated to 1 Oct 2023, using the Inflation Guidance for FY 2022 President's Budget, **08 April 2021** and Normalized to an Area Cost Factor of 1. Please refer to the "Notes" in the Remarks Column of Table. **FY22** Note-1: No data or Not enough useable Army Bid Data since 2016 to forecast UC. **Unit Of Facility Unit Cost** Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC. Average or Measure CAT CODE (\$ / UoM) Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance. **Description** Standard Size (UoM) Aircraft Avionics Maint Shop  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$  $\mathbf{X}\mathbf{X}$ See Avionics Maint Shop, CATCD 21117 Remarks above 21740 SF 300.00 **600** Ref size & UC based on project data in HII Published w/ 1 Huntsville COS approved data point. 21850 Battery Shop  $\mathbf{X}\mathbf{X}$ Parachute Repair Shop  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ See Note-1. Insufficient recent cost data. 21881 General Purpose Maint Shop 265 117,427  $\mathbf{SF}$ Ref size & UC based on project data in HII Published w/ 1 Savannah COS approved data points. 21885 21910 Engineering / Housing Maint Shop  $\mathbf{X}\mathbf{X}$ See Note-1. Insufficient recent cost data.  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$  $\mathbf{X}\mathbf{X}$ See Note-1. Insufficient recent cost data. 31010 Chemistry Lab  $\mathbf{X}\mathbf{X}$ SF Ground Transportation Equip Bldg SF  $\mathbf{X}\mathbf{X}$ See Note-1. Insufficient recent cost data.  $\mathbf{X}\mathbf{X}$ 31410 42120 Hi Explosive Magazine w/Crane 9,500 SF 451.00 See Note-3: UC & Ref Size based on GUC / DOD Guidance.  $\mathbf{X}\mathbf{X}$ See Note-1. Use same UC as in CC42120 above SF 42180 Igloo Storage, Depot Level  $\mathbf{X}\mathbf{X}$  $\mathbf{X}\mathbf{X}$ Gen. Purpose Magazine w/o Crane  $\mathbf{X}\mathbf{X}$ SF 42183 See Note-1. Insufficient recent cost data. Gen Purpose Magazine w/o Crane - Installation  $\mathbf{X}\mathbf{X}$ 42283  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ See Note-1. Insufficient recent cost data.  $\mathbf{X}\mathbf{X}$ See Note-1. Insufficient recent cost data. Cold Storage Bld w/Processing  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ 43211  $\mathbf{X}\mathbf{X}$ SF  $\mathbf{X}\mathbf{X}$ See Note-1. Insufficient recent cost data. Cold Storage Bld w/o Processing 43211 See CATCD 44220 below General Purpose (GP) Warehouse, Depot  $\mathbf{SF}$ 44110  $\mathbf{X}\mathbf{X}$ Controlled Humidity Warehouse  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ See Note-1. Insufficient recent cost data. 44130  $\mathbf{X}\mathbf{X}$ Hazardous Material Storage, Depot  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ See Note-1. Insufficient recent cost data. 44135  $\mathbf{X}\mathbf{X}$ 44150 Flammable Material Storage, Depot  $\mathbf{X}\mathbf{X}$ SF See Note-1. Insufficient recent cost data. Covered Vehicle Storage, Depot  $\mathbf{X}\mathbf{X}$ 44181  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ See Note-1. Insufficient recent cost data. 44182 Vehicle Storage Building, Depot  $\mathbf{X}\mathbf{X}$ SF  $\mathbf{X}\mathbf{X}$ See Note-1. Insufficient recent cost data.  $\mathbf{X}\mathbf{X}$  $\mathbf{X}\mathbf{X}$ SF 44210 Aircraft Parts Storage Fac, Installation See Note-1. Insufficient recent cost data. Gen Purpose (GP) Warehouse, Installation 44220  $\mathbf{SF}$ 345.00 44220 Low-Bay, Up to 16' Stack height, <15,000 SF 8,600 See Note-3: UC & Ref Size based on GUC / DOD Guidance. SF Low-Bay, Up to 16' Stack height, >15,000 SF 25,000 183.00 See Note-3: UC & Ref Size based on GUC / DOD Guidance. 44220  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$  $\mathbf{X}\mathbf{X}$ See Note-1. Insufficient recent cost data. 44220 Hi-Bay, > 16' Clear Stack height Lawn Equipment Bldg for AIT/BT barracks  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ See Note-1. Insufficient recent cost data. 44220 Unheated Storage Bldg - Army Reserve 4,191 SF 136.00 Ref size & UC based on project data in HII Published w/4 Louisville COS approved data points. 44220  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$  $\mathbf{X}\mathbf{X}$ See Note-1. Insufficient recent cost data. 44222 Storage Shed (Covered, not Enclosed) - Small See Note-1. Insufficient recent cost data.  $\mathbf{X}\mathbf{X}$ 21412 Organizational Equipment Storage Bldg  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ For COF Equip. Storage UC, see Readiness Module - CC14185 Organizational Storage Bldg 44224  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$  $\mathbf{X}\mathbf{X}$ See Note-1. Insufficient recent cost data. See Note-1. Insufficient recent cost data. 44224 Lawn Mower Storage Bldg for AIT/BT barracks  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ SF Use the same UC as CATCD 21470 **HAZMAT Storage - Installation**  $\mathbf{X}\mathbf{X}$ See CC21470 44228 Open Storage Area - Installation  $\mathbf{X}\mathbf{X}$  $\mathbf{SY}$ **XX** Use CATCD 851XX, Pavements, from Part-II, PAX MEDICAL FACILITIES Inpatient Hospital / Medical Center  $\mathbf{X}\mathbf{X}$  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ See Note-1. Insufficient recent cost data. 51010 Medical Clinic attached to Hospital  $\mathbf{X}\mathbf{X}$  $\mathbf{SF}$ See Note-1. Insufficient recent cost data.  $\mathbf{X}\mathbf{X}$ SF  $\mathbf{X}\mathbf{X}$ Veterinary Clinic See Note-1. Insufficient recent cost data. 55010 Small Medical Clinic <60,000 SF, Free Standing SF 472.00 38,000 See Note-3: UC & Ref Size based on GUC / DOD Guidance. Large Medical Clinic >60,000 SF, Free Standing  $\mathbf{X}\mathbf{X}$ SF See Note-1. Insufficient recent cost data. Mental / Behavioral Health Clinic SF See Note-1. Insufficient recent cost data. 55010  $\mathbf{X}\mathbf{X}$  $\mathbf{X}\mathbf{X}$ 

 $\mathbf{X}\mathbf{X}$ 

See Note-1. Insufficient recent cost data.

 $\mathbf{X}\mathbf{X}$ 

SF

Dental Clinic

54010

	Facility Unit Costs (UC) are average unit costs based on the most Recent 4-Year (2017-20) project awards per building type.							
	s are the average unit costs for new construction, escalated to 1 Oct 2023, using the state of t							
FY 202	2 President's Budget, <b>08 April 2021</b> and Normalized to an Area Cost Factor of 1	. Please refer to	the "Notes" i	n the Remarks Column of Ta	able.			
					Remarks			
G . T		Facility	Unit Of	FY22	Note-1: No data or Not enough useable Army Bid Data since 2016 to forecast UC.			
CAT CODE	Description	Average or Standard Size	Measure (UoM)	Unit Cost (\$ / UoM)	Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.  Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.			
53025	Satellite Pharmacy	XX	SF		See Note-1. Insufficient recent cost data.			
53020	Blood Donor Center	17,000	SF		See Note-3: UC & Ref Size based on GUC / DOD Guidance.			
53060	Medical Warehouse	XX	SF	XX	See Note-1. Insufficient recent cost data.			
53071	Ambulance Garage	XX	SF		See Note-1. Insufficient recent cost data.			
61001	Military Entrance Processing Stn	XX	SF	XX	See Note-1. Insufficient recent cost data.			
61050	Administrative Fac, General Purpose	<del> </del>						
01030	This multipurpose building provided office space, visitors area, auditorium, of the space of the	cafeteria storage	e space, etc. for	administrative personnel				
61050	Administrative Fac, General Purpose, Small	XX	SF		See Note-1. Insufficient recent cost data.			
61050	Administrative Fac, General Purpose, Medium	XX	SF		See Note-1. Insufficient recent cost data.			
61050	Administrative Fac, General Purpose, Large	XX	SF	XX	See Note-1. Insufficient recent cost data.			
	Prewired work station @ \$4,500/Stn installed, NOT included							
61050	Command Headquarters Bldg	XX	SF		New CATCD 14190, see CC14190 for UC			
62010	Underground Administrative Facility	XX	SF	XX	See Note-1. Insufficient recent cost data.			
<u> </u>	ARMY FAMILY HOUSING DWELLINGS - CONUS & OCONUS (Contact Family Housing C	COS. CENAO for d	etermining additi	onal planning factors for multi-fam	nily dwellings.)			
	Show "Families (FA)" as the UOM in the in the Primary Line item by category code.		-					
	(using the Size Adj Table-, Part-I) as the adjusted unit cost per FA by catcode, grade,		-		·			
	Use Size Adj Table-1, Part - II only for project size adj. Normally 2-car garage (400 S	SF) cost is provide	ed with each dw	velling. GSF of garage is not inc	cluded 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/							
	or 5,500 Cooling Degree Days (CHD), annually. (ii) Gross SF may be increased by		ing units for an	officer holding a special comma	and position, for the commanding officer			
	of a military installation, and for the senior non-commissioned officer of a military in	stallation.	Family Unit					
	ARMY FAMILY HOUSING DWELLINGS	Size	& SF	CONUS / OCONUS				
71111	General Officer, Grade O10, 4 Bedrooms	4,000	SF / FA	290.89 / 330.77				
	Concrete Circuit, Credit Circi, 1 Deditionals	1,000	51 / 111	2501057 000117				
71111	General Officer, Grade O9, 4 Bedrooms	4,000	SF / FA	290.89 / 330.77				
71111	General Officer, Grade O8, 4 Bedrooms	3,300	SF / FA	294.41 / 334.29				
	Constant States, State SS, 1 Zearsonis	2,200	51 / 111	25 1111, 00 1125				
71111	General Officer, Grade O7, 4 Bedrooms	3,300	SF / FA	294.41 / 334.29				
71112	Colonel, Grade O6, 4 Bedrooms	2,520	SF / FA	288.54 / 319.04				
71113	Warrant Officer, Grade W4 & W5, 3 Bedrooms	2,020	SF / FA	273.29 / 312.00				
71112	Warrant Officer, Grade W4 & W5, 4 Bedrooms	2 210	SF / FA	272.12 / 310.83				
/1113	wanant Officer, Grade w4 & w3, 4 dedfooms	2,310	SF / FA	4/4.14/ 310.83				
B4440	I.T. Colonel & Maior Cond. OA & O.S. 2 D. 1	2.020	OF /F/	AMA AO 1344 OO				
71113	LT. Colonel & Major, Grade O4 & O5, 3 Bedrooms	2,020	SF / FA	273.29 / 312.00				
71113	LT. Colonel & Major, Grade O4 & O5, 4 Bedrooms	2,310	SF / FA	272.12 / 310.83				

	Unit Costs (UC) are average unit costs based on the most Recent 4-Year (2017-2			g type.	
	s are the average unit costs for new construction, <u>escalated to 1 Oct 2023</u> , using to 2 President's Budget, <b>08 April 2021</b> and Normalized to an Area Cost Factor of 1			in the Remarks Column of Ta	able.
1 1 202	2 Trestaent's Budget, vo rapril 2021 and restandabled to an rinea cost ractor or r	. Trouge forer to	, the Tyotes I	or the remarks column of the	
					Remarks
CAT		Facility Average or	Unit Of Measure	FY22 Unit Cost	Note-1: No data or Not enough useable Army Bid Data since 2016 to forecast UC.  Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.
CODE	Description	Standard Size	(UoM)	(\$ / UoM)	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
71114	Wantana Office Conda W1 W2 2 Dada and	1.000	CE / E A	240.04 / 207.27	
71114	Warrant Officer, Grade W1-W3, 3 Bedrooms	1,860	SF / FA	249.84 / 287.37	
71114	Warrant Officer, Grade W1-W3, 4 Bedrooms	2,150	SF / FA	246.32 / 282.68	
71114	Warrant Officer, Grade W1-W3, 5 Bedrooms	2,510	SF / FA	241.62 / 280.33	
71114	CO Crada Officar, O1 O2 2 Padracora	1.970	SE / EA	240.94 / 297.27	
/1114	CO Grade Officer, O1-O3, 3 Bedrooms	1,860	SF / FA	249.84 / 287.37	
71114	CO Grade Officer, O1-O3, 4 Bedrooms	2,150	SF / FA	246.32 / 282.68	
71114	CO Grade Officer, O1-O3, 5 Bedrooms	2,510	SF / FA	241.62 / 280.33	
71115	Senior NCO, E-9, 3 Bedrooms	2,020	SF / FA	286.20 / 312.00	
	Senior NCO, E-9, 4 Bedrooms	2,310	SF / FA	272.12 / 310.83	
71115	Senior NCO, E-7 & E-8, 3 Bedrooms	1,860	SF / FA	249.84 / 287.37	
71115	Senior NCO, E-7 & E-8, 4 Bedrooms	2,150	SF / FA	246.32 / 282.68	
71115	Senior NCO, E-7 & E-8, 5 Bedrooms	2,510	SF / FA	241.62 / 280.33	
71116	Junior NCO/Enlisted, E-1 thru E-6, 3 Bedrooms	1,630	SF / FA	255.70 / 293.23	
		ŕ			
71116	Junior NCO/Enlisted, E-1 thru E-6, 4 Bedrooms	1,950	SF / FA	252.18 / 288.54	
71116	Junior NCO/Enlisted, E-1 thru E-6, 5 Bedrooms	2,300	SF / FA	247.49 / 285.02	
	GARAGE & CARPORTS				
71410	Detached Garage, Masonry, 2-Car	XX	SF	XX	See Note-1. Insufficient recent cost data.
71410	Detached Garage, Wood, 2-Car	XX	SF	XX	
71411	Carport - 2 Cars	XX	SF		See Note-1. Insufficient recent cost data.
85218 72010	Parking Garage, Multistoried Temporary Lodging	XX XX	SF SF		UC provided under CATCD 85218 below.  See CATCD 72412 also called Transient Housing.
/ 4010	Tomporary Loughig	AA	SF	AA	500 CITIOD 12-12 also canca Transion Housing.
72111	BARRACKS - Permanent Party (UEPH)	79,000	SF		Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
	Unit cost does not include the cost for free standing equipment. All finished measured from the underside of the structural system, and areas with perimet				
	measured from the underside of the structural system, and areas with perimet	or wans measur	ng +-11 (13)	o mini or more shan de coun	ica as tan scope
Various	WARRIORS IN TRANSITION (WT) BARRACKS COMPLEX				
72112	WT Barracks, 56 Person Module	XX	SF	XX	See Note-1. Insufficient recent cost data.

Facility	Unit Costs (UC) are average unit costs based on the most Recent 4-Year (2017-2	0) project award	ls per building	g type.	
All UC's	are the average unit costs for new construction, escalated to 1 Oct 2023, using t	the Inflation Gu	idance for		
FY 202	2 President's Budget, <b>08 April 2021</b> and Normalized to an Area Cost Factor of 1	. Please refer to	the "Notes" i	in the Remarks Column of Ta	able.
		Facility	Unit Of	FY22	Remarks Note-1: No data or Not enough useable Army Bid Data since 2016 to forecast UC.
CAT		Average or	Measure	Unit Cost	Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.
CODE	Description	Standard Size	(UoM)	(\$ / UoM)	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
14188	WT Unit Admin Fac, Large	XX	SF	XX	See Note-1. Insufficient recent cost data.
14188	WT Unit Admin Fac, Small	XX	SF	XX	See Note-1. Insufficient recent cost data.
14188	WT Company (CO) Admin Fac	XX	SF	XX	See Note-1. Insufficient recent cost data.
14184	WT Jt BN-CO Admin / Ops Fac	XX	SF	XX	See Note-1. Insufficient recent cost data.
72210	WT Dining Fac-Seating 251-500 Person	XX	SF	XX	See CATCD 72210, Dining Fac (DFAC), below for UC
74033	WT Soldiers and Family Assist. Ctr (SFSC)	XX	SF	XX	SFSC designs never launched.
74033	WT SFSC - Small	XX	SF	XX	SFSC designs never launched.
74033	WT SFSC - Large	XX	SF	XX	SFSC designs never launched.
Various	OPERATIONAL READINESS TRAINING COMPLEX (ORTC)/ TRANSIENT TRAINING CO				
	The ORTC Std design is based on a battalion sized ORTC to include Transient				
	for transient trainees. These are more austere than permanent party facilities. No				
72114	ORTC Transient Training Barracks	54,891	SF		Ref size & UC based on project data in HII Published w/3 Louisville COS approved data points.
72412	Sn. Enlisted Officers Qtrs, Transient	XX	SF	XX	See Note-1. Insufficient recent cost data.
14184	Battalion HQ Bldg, Transient Trng COF / Company HQ, Transient Trng	XX	SF SF		See Note-1. Insufficient recent cost data.  See Note-1. Insufficient recent cost data.
14186 14187	Brigade HQ Bldg, Transient Trng	XX	SF		See Note-1. Insufficient recent cost data.  See Note-1. Insufficient recent cost data.
14179	Hardstand Cover (Canopy) - Transient Trng	XX	SF	XX	
21406	Vehicle Maint Shop, Transient Trng	XX	SF		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
44222	Covered Storage Sheds	2,250	SF	See TEMF	See CC 44222, Storage Shed, under TEMF Complex above.
	ADVANCE INDIVIDUAL TRAINING (AIT) COMPLEX				
	A Standard AIT Barracks Complex consists of Brigade HQ, Battalion HQ, Ba	rracks/COF Bu	ildings for up	to 4-300 person companies p	er BN, Dining Facility, and
	other required buildings and site facilities.				
72121	AIT Barracks w/CO Ops (COF) Space	148,000	SF	328.00	Ref size & UC based on project data in HII Published w/1 Ft. Worth COS approved data points.
72121	AIT Barracks w/COF Space - Army Reserve	XX	SF	XX	See Note-1. Insufficient recent cost data.
14182	AIT Brigade HQS, if needed	9,100	SF	XX	See CC 14182, Brigade HQ provided earlier
14183	AIT Battalion HQS w/ Classrooms	12,300	SF	XX	See CC 14183, Battalion HQ provided earlier
72210	Dining Fac, AIT, 1300 PN, 544 seats	XX	SF	XX	
72210	Dining Fac, AIT, 2600 BN, 1088 seats	XX	SF	XX	See CC 72210, Large Basic and AIT Complex under DFAC below.
	DACIG TO AINING (DT/IET) LONE OT ATION HAVE TO A DUDG (OVOT) DAD A COM	OMBLES!			
	A Standard RT/OUST Complex includes up to 5 64 700 SE each Parracks/		Oldge for 1 200	O coldiare a Dattalian IIO Di	d/ classroom, a Dining Escility, and Lawn
	A Standard BT/OUST Complex includes up to 5 - 64,700 SF each Barracks/equipment Storage (2,000 SF) building, a 1/4 mile 8-lane running track and to		orugs 10f 1,20	o soluters, a dattation HQ BI	u/ Classiconi, a Dinnig Facility, and Lawn
72181	BT/OUST Brks w/COF Space	267,875	SF	239.00	Ref size & UC based on project data in HII Published w/ 1 Ft. Worth COS approved data point.
72101	Calculate average individual Barrack/COF Bldg size, then use Size Adj. Factor	,			
	BT/OUST Barracks Complex may contain 1, 2, 3, 4 or 5 Brks/COF Bldgs. So				
72181	Battalion (BN) HQS w/Classrooms	XX	SF	-	See Note-1. Insufficient recent cost data.
72210	Dining Fac for 1 BN, 1300 (PN) trainees, 544 seats	32,000	SF		See CC 72210, Small Basic and AIT Dining under DFAC below
72210	Dining Fac for 2 BN, 2600 (PN) trainees, 1088 seats	55,000	SF		Use Size Adj Table using 1300 trainee UC above for this facility
	Covered Queuing Area is included in the Dining Facility area calculation. St	ŕ			
	DINING FACILITIES (DFAC)				
		· · · · · · · · · · · · · · · · · · ·			

Facility 1	Facility Unit Costs (UC) are average unit costs based on the most Recent 4-Year (2017-20) project awards per building type.							
All UC's	are the average unit costs for new construction, escalated to 1 Oct 2023, using t	the Inflation Gu	idance for					
FY 2022	2 President's Budget, 08 April 2021 and Normalized to an Area Cost Factor of 1	l. Please refer to	the "Notes" i	n the Remarks Column of Ta	able.			
					Remarks			
CAT		Facility	Unit Of Measure	FY22 Unit Cost	Note-1: No data or Not enough useable Army Bid Data since 2016 to forecast UC.			
CAT CODE	Description	Average or Standard Size	(UoM)	(\$ / UoM)	Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.  Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.			
	Cost includes MCA Funded Kitchen equipment & installation. DFACs are c		, ,	,				
72210	DFAC - Permanent Party - Small, 400 - 600 PN, <15,000 SF	XX	SF	XX	See Note-1. Insufficient recent cost data.			
72210	DFAC - Permanent Party - Medium, 1057-1716 PN, 15,000 to 39,999 SF	25,000	SF SF		See Note-3: UC & Ref Size based on GUC / DOD Guidance.			
72210	DFAC - Permanent Party - Medium, 1057-1716 PN, 13,000 to 39,399 SI	XX	SF		See Note-1. Insufficient recent cost data.			
, 2210	DI / NC - 1 Climatent I arry - Large, 1037-1710 FN, >40,000 3F	ΛΛ	SF	AA	500 Prote-1. Insufficient recent cost data.			
72210	DFAC - Basic & AIT Complex - Small, 1300 PN, 544 Seats	XX	SF	YY	See Note-1. Insufficient recent cost data.			
72210	DFAC - Basic & AIT Complex - Large, 2600 PN, 1088 seats	XX	SF		See Note-1. Insufficient recent cost data.			
	2.1.0 Danie C. III Complex Daigo, 2000 111, 1000 seats	73/1	Ŋ1°	71/1	200 2 - 1000 2 - Insultation tooth cost units			
72212	DFAC - ORTC - Small, 720 PN	XX	SF	XX	See Note-1. Insufficient recent cost data.			
72212	DFAC - ORTC - Large, 1428 PN	21,290	SF		Ref size & UC based on project data in HII Published w/ 1 NAO COS approved data point.			
	21110 21110 21110	21,250		201100	The size of the constant in The Theorem with The constant in t			
72410	Unaccompanied Officers Quarters	XX	SF	XX	See Note-1. Insufficient recent cost data.			
72412	Transient Training Officers Quarters	XX	SF		See CC 72412 Sn. Enlisted Officers Qtrs, Transient under ORTC.			
	STAND ALONE FIRE STATIONS (FS) - FS & Air Rescue Fire Fighting Fire Stations (AR							
	These are stand alone Fire Stations. Their sizes are determined by the author		Apparatus Ba	ys which house Vehicles, nu	mber of Dorm Emergency rooms,			
	and whether they are HQs or Satellite Stations. A standard Apparatus Bay sh							
73010	Airfield Fire/Crash Rescue Station	17,284	SF	368.00	See Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.			
	CONSOLIDATED FIRE, SAFETY & SECURITY Facilities (FSS)/DEPT of EMERGENCY SE	ERVICES (DES) Fa	<u>icilities</u>					
	Combined Military Police, Safety, Fire & Emergency Svc. Also called Directorate of	Emergency Servi	ces (DES) Facil	lity				
73010	Consolidated FSS Fac - Medium	46,257	SF	412.00	See Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.			
73016	Police/Law Enforcement (MP) Station	XX	SF	XX	See Note-1. Insufficient recent cost data.			
73017	Chapel - includes Pew seating.	XX	SF	XX	See Note-1. Insufficient recent cost data.			
73017	Chapel for Initial Entry Trainees (IET)	XX	SF	XX	See Note-1. Insufficient recent cost data.			
73018	Religious Education Facility - Medium	XX	SF	XX	See Note-1. Insufficient recent cost data.			
	For upto 10 small groups of 55-70 PN. A dedicated space for Religious Educ	cation and Relig	ious Activitie	s. Should be reported separa	ttely from the worship space if collocated			
	in a Chapel, catcode 73017. Use Size Adjustment Factor Table-1, for other U	JC of other size	s.					
73019	Chapel Family Life Ctr (300-450 PN)	XX	SF	XX	See Note-1. Insufficient recent cost data.			
	DEPENDENT SCHOOLS							
73046	Elementary School - CONUS	120,000	SF	382.00	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance. Note: GUC uses 1 cost and 1 size for all school line items, CONUS and OCONUS.			
73046	Elementary School - OCONUS	120,000	SF	382.00	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance. Note: GUC uses 1 cost and 1 size for all school line items, CONUS and OCONUS.			
73046	Elementary School - OCONUS, Other Than Japan locations	XX	SF	XX	See Note-1. Insufficient recent cost data.			
73046	Junior High School	XX	SF		See Note-1. Insufficient recent cost data.			
73046	High School	XX	SF	XX				
74010	Auditorium, General Purpose	XX	SF		See Note-1. Insufficient recent cost data.			
74011	Bowling Center	XX	SF	XX				
74012	Cafeteria	XX	SF					
	CDC - School Age, >6 years of age	XX	SF		See Note-1. Insufficient recent cost data.			
	CDC - Preschool, 232 children, 0-6 yrs	XX	SF		See Note-1. Insufficient recent cost data.			
74021	Commissary	XX	SF		See Note-1. Insufficient recent cost data.			
74022	Skill Development Center	XX	SF		See Note-1. Insufficient recent cost data.			
74023	Credit Union	XX	SF		See Note-1. Insufficient recent cost data.			
74024	Skill Development Ctr - Automotive	XX	SF		See Note-1. Insufficient recent cost data.			
74025	Education Center for 10,000 - 15,000 PN	XX	SF	XX	See Note-1. Insufficient recent cost data.			

	Unit Costs (UC) are average unit costs based on the most Recent 4-Year (2017-			g type.	
	are the average unit costs for new construction, escalated to 1 Oct 2023, using			n the Demonts Column of To	.1.
F1 202	2 President's Budget, <b>08 April 2021</b> and Normalized to an Area Cost Factor of	1. Please refer to	the Notes 1	ii the Remarks Column of 17	able.
					Remarks
		Facility	Unit Of	FY22	Note-1: No data or Not enough useable Army Bid Data since 2016 to forecast UC.
CAT		Average or	Measure	<b>Unit Cost</b>	Note-2: Last year's unit cost (UC) escalated 1 year. Not enough projects awarded to forecast UC.
CODE	Description	Standard Size	(UoM)	(\$ / UoM)	Note-3: UC & Ref Size based on GUC / DOD / TriService Guidance.
74028	Physical Fitness Facility	XX	SF	XX	See Note-1. Insufficient recent cost data.
	Program Indoor Swimming Pool (CC74042) separately				
74030	Sports Pro Shop	XX	SF	XX	See Note-1. Insufficient recent cost data.
74033	Army Community Service	XX	SF	XX	See Note-1. Insufficient recent cost data.
74041	Main Library	XX	SF	XX	See Note-1. Insufficient recent cost data.
74047	Service Club	XX	SF	XX	See Note-1. Insufficient recent cost data.
74048	Officer Open Dining Facility	XX	SF	XX	See Note-1. Insufficient recent cost data.
74053	Main Exchange	XX	SF	XX	See Note-1. Insufficient recent cost data.
74056	Exchange Service Outlet	XX	SF	XX	See Note-1. Insufficient recent cost data.
74066	Youth Center, medium (105-135 PN)	XX	SF	XX	See Note-1. Insufficient recent cost data.
74068	Recreation Center	XX	SF	XX	See Note-1. Insufficient recent cost data.
74070	Indoor Roller Skating Rink	XX	SF	XX	See Note-1. Insufficient recent cost data.
74072	25 meter Indoor Swimming Pool	XX	SF	XX	See Note-1. Insufficient recent cost data.
74075	Recreational Support Building	XX	SF	XX	See Note-1. Insufficient recent cost data.
	PLAYGROUND for PPRESCHOOL CHILDREN, UNDER 6 YEARS of AGE				
75018	Small (126 children)	XX	SF	XX	See Note-1. Insufficient recent cost data.
75018	Medium (232 Children)	XX	SF	XX	See Note-1. Insufficient recent cost data.
75018	Large (338 Children)	XX	SF	XX	See Note-1. Insufficient recent cost data.
	PLAYGROUND for SCHOOL AGE CHILDREN, 6 TO 10 YEARS				
75018	Small (105-135 children)	XX	SF	XX	See Note-1. Insufficient recent cost data.
75018	Medium/Large (150-225 Children)	XX	SF		See Note-1. Insufficient recent cost data.
75018	Play Ground for Youth Center	XX	SF	XX	See Note-1. Insufficient recent cost data.
75022	Multipurpose Athletics Field (360' x 160')	XX	EA	XX	See Note-1. Insufficient recent cost data.
75027	Running Track	XX	EA		See Note-1. Insufficient recent cost data.
75030	Outdoor Swimming Pool	XX	SF	XX	See Note-1. Insufficient recent cost data.
75061	Bleacher, Covered	XX	EA	XX	See CC 75061 under Range Complex above for UC
85210	Organizational Vehicle Parking	35124	SY	69	Ref size & UC based on project data in HII Published w/ 4 data point.
85218	Parking Garage, Multistoried	180,000	SF	56.00	See Note-3: UC & Ref Size based on GUC / DOD Guidance.
	Assumes 425-450 SF/vehicle with turning radii and ramps.				
89120	Plant / Utilities Building	XX	SF	XX	See Note-1. Insufficient recent cost data.
	SPECIAL FOUNDATIONS				
	Piling, Treated Wood, 50' long, 12" butt	N/A	SF	44.00	See Note-2. Used FY22 PAX 3.2.2 UC escalated to 1 Oct 2023 for FY23 Projects
	Piling, Concrete, 14" square	N/A	SF	65.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2019 for FY20 Projects
	Piling, Concrete, 16" square	N/A	SF	67.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2019 for FY20 Projects
	Piling, Concrete, 18" diameter	N/A	SF	76.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2019 for FY20 Projects
	Piling, Steel H, 50' Long, HP 12x53	N/A	SF		See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2019 for FY20 Projects
	Piling, Steel Pipe, 12" D, Conc. Filled	N/A	SF	64.00	See Note-2. Used FY17 PAX 3.2.2 UC escalated to 1 Oct 2019 for FY20 Projects

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	AIRFIELD RUNWAY (RW) - SLIP FORM CONC PVMT, Airports, UNREINFORCED, 5000 PSI, 12' PASS, Incl JC	DINTS, FINISHING &	& CURING	
11110 & X20	8" THICK (TH) PAVEMENT	1	SY	\$46.10
	10" THICK PAVEMENT	1	SY	\$55.00
	12" THICK PAVEMENT	1	SY	\$62.00
	16" THICK PAVEMENT	1	SY	\$83.00
	AIRFIELD RUNWAY - FIXED FORM PLAIN CEMENT CONC PVMT, Airports, UNREINFORCED, 4500 PSI, 12	PASS, INCLUDES	I JOINT, FINISI	HING, & CURING
11110 & X20	12 " THICK PAVEMENT, Note: ADD \$14.45/SY For REINF STEEL BAR, 18 LBS/SY (A185)	1	SY	\$62.00
	14" THICK PAVEMENT, Note: ADD \$14.45 /SY For REINF STEEL BAR, 18 LBS/SY (A185)	1	SY	\$75.00
	16" THICK PAVEMENT, Note: ADD \$14.45/SY For REINF STEEL BAR, 18 LBS/SY (A185)	1	SY	\$83.00
	ASHPHALT PAVING- PLANT MIX For HIGHWAYS & LARGE PAVED AREAS, WEARING COURSE			
11110 & X20	3" THICK PVMT	1	SY	\$19.20
	AIRFIELD RUNWAY - LIGHTING, BI-DIRECTIONAL W/ SHALLOW INSERT BASE			
11110 & X20	RW CENTER LINE LIGHT, SEMI FLUSH, 200 W	1	EA	\$2,468.00
	RW CENTER LINE LIGHT, FLUSH, 200 W	1	EA	\$2,468.00
	RW EDGE & THRESHOLD LIGHT, 200 W, BI-DIRECTIONAL for Base Housing	1	EA	\$1,635.00
	RW EDGE & THRESHOLD LIGHT, 2-115 W, Bi-DIRECTIONAL for Base Housing	1	EA	\$2,181.00
	TOUCHDOWN ZONE LIGHT, 200 W, UNIDIRECTIONAL for Base Housing	1	EA	\$2,093.00
	THRESHOLD & APPROACH LIGHT, 200 W, UNIDIRECTIONAL for Base Housing	1	EA	\$1,039.00
	AIRFIELD PVMT MARKINGS			
11110	THERMOPLASTIC PVMT MARKINGS, RUNWAY w/24 LB GLASS BEADS Per 100 SF	1	SF	\$4.50
	PVMT MARKINGS, TAXIWAY, PAINTING WHITE OR YELLOW STRIPES	1	SF	\$1.40
	COMMUNICATIONS (COMM) DISTRIBUTION CABLE, CABLE SPLICING & TERMINATION - UNDERG	L ROUND RESIDENT	<u> </u>   IAL DISTRIBU	UTION (URD) or
13510	CABLE SPLICING, 5 kV, #6 STRANDED to #1 STRANDED, URD or SIMILAR	1	EA	\$362.00

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CAT CODE	<u>ITEM</u>	QTY	<u>UNIT</u>	UNIT COST (\$/UNIT)
	CABLE SPLICING, 15 kV, #6 STRANDED to #1 STRANDED, URD or SIMILAR	1	EA	\$436.00
	CABLE SPLICING, 25 kV, #6 STRANDED to #1 STRANDED, URD or SIMILAR	1	EA	\$470.00
13510	CABLE SPLICING, 5 kV, #1 STRANDED to #4/0 STRANDED, URD or SIMILAR	1	EA	\$402.00
	CABLE SPLICING, 15 kV, #1 STRANDED to #4/0 STRANDED, URD or SIMILAR	1	EA	\$488.00
	CABLE SPLICING, 25 kV, #1 STRANDED to #4/0 STRANDED, URD or SIMILAR	1	EA	\$496.00
13510	CABLE SPLICING, 5 kV, #4/0 STRANDED to 500 kcmil STRANDED, URD or SIMILAR	1	EA	\$424.00
	CABLE SPLICING, 15 kV, #4/0 STRANDED to 500 kcmil STRANDED, URD or SIMILAR	1	EA	\$483.00
	CABLE SPLICING, 25 kV, #4/0 STRANDED to 500 kcmil STRANDED, URD or SIMILAR	1	EA	\$711.00
13510	CABLE SPLICING, 5 kV, 500 kcmil STRANDED, URD or SIMILAR	1	EA	\$545.00
	CABLE SPLICING, 15 kV, 500 kcmil STRANDED, URD or SIMILAR	1	EA	\$684.00
	CABLE SPLICING, 25 kV, 500 lcmil STRANDED, URD or SIMILAR	1	EA	\$746.00
	CABLE SPLICING, 5 kV, 600 kcmil STRANDED, URD or SIMILAR	1	EA	\$568.00
	CABLE SPLICING, 15 kV, 600 kcmil STRANDED, URD or SIMILAR	1	EA	\$735.00
	CABLE SPLICING, 25 kV, 600 kcmil STRANDED, URD or SIMILAR	1	EA	\$798.00
13510	CABLE SPLICING, 5 kV, 750 kcmil STRANDED, URD or SIMILAR	1	EA	\$602.00
	CABLE SPLICING, 15 kV, 750 kcmil STRANDED, URD or SIMILAR	1	EA	\$763.00
	CABLE SPLICING, 25 kV, 750 kcmil STRANDED, URD or SIMILAR	1	EA	\$815.00
	CABLE SPLICING, 5 kV, 1000 kcmil STRANDED, URD or SIMILAR	1	EA	\$642.00
	CABLE SPLICING, 15 kV, 1000 kcmil STRANDED, URD or SIMILAR	1	EA	\$849.00
	CABLE SPLICING, 25 kV, 1000 kcmil STRANDED, URD or SIMILAR	1	EA	\$1,015.00
	TERMINALE LUGS, SOLDERLESS			
13510	TERMINAL LUGS, #16 to #10, SOLDERLESS	1	EA	\$17.00
	TERMINAL LUGS, #8 to #4, SOLDERLESS	1	EA	\$29.30
	TERMINAL LUGS, #2 to #1, SOLDERLESS	1	EA	\$37.90

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
13510	TERMINAL LUGS, 1/0 to 2/0, SOLDERLESS	1	EA	\$53.00
	TERMINAL LUGS, 3/0, SOLDERLESS	1	EA	\$70.00
	TERMINAL LUGS, 4/0, SOLDERLESS	1	EA	\$76.00
	TERMINAL LUGS, 250 kcmil, SOLDERLESS	1	EA	\$94.00
	TERMINAL LUGS, 500 kcmil, SOLDERLESS	1	EA	\$145.00
	TERMINAL LUGS, 750 kcmil, SOLDERLESS	1	EA	\$169.00
	FIBER OPTIC CABLE, SPLICER BOX & TERMINATION BOX			
13510	12 STRAND FIBER OPTIC CABLE w/ 1" PVC INNER DUCT RUN IN DUCTBANK	1	LF	\$2.40
	24 STRAND FIBER OPTIC CABLE w/ 1" PVC INNER DUCT RUN IN DUCTBANK	1	LF	\$2.80
	36 STRAND FIBER OPTIC CABLE w/ 1" PVC INNER DUCT RUN IN DUCTBANK	1	LF	\$3.10
	6 STRAND FIBER OPTIC SPLICE BOX, INCL BOX & 6 CABLE SPLICES	1	EA	\$481.00
	12 STRAND FIBER OPTIC SPLICE BOX, INCL BOX & 12 CABLE SPLICES	1	EA	\$579.00
	24 STRAND FIBER OPTIC SPLICE BOX, INCL BOX & 24 CABLE SPLICES	1	EA	\$784.00
	36 STRAND FIBER OPTIC SPLICE BOX, INCL BOX & 36 CABLE SPLICES	1	EA	\$996.00
	6 STRAND FIBER OPTIC TERMINATION BOX, INCL BOX & 6 CABLE CONNECTIONS	1	EA	\$615.00
	12 STRAND FIBER OPTIC TERMINATION BOX, INCL BOX & 12 CABLE CONNECTIONS	1	EA	\$702.00
	24 STRAND FIBER OPTIC TERMINATION BOX, INCL BOX W/ 2 SPLICE TRAYS & 24 CABLE CONNECTIONS	1	EA	\$943.00
	36 STRAND FIBER OPTIC TERMINATION BOX, INCL BOX & w/ 3 SPLICE TRAYS & 36 CABLE CONNECTIONS	1	EA	\$1,170.00
		75 kW	EA	\$102,800.00
		125 kW	EA	\$120,800.00
		200 kW	EA	\$157,260.00
81160	STANDBY GENERATOR, DIESEL (SDG) , 3 PHASE 4 WIRE, 277/480 VOLTS, INCL. BATTERY, CHARGER, FUEL	300 kW	EA	\$192,750.00
91100	TANK, MUFFLER & AUTO TXFR SWITCH (ATS), EXCL. CONDUIT, WIRING & CONC PAD	400 kW	EA	\$261,290.00
		500 kW	EA	\$324,090.00

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
		750 kW	EA	\$503,990.00
		1000 kW	EA	\$633,910.00
	SITE LIGHTING, 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	\$2,468.00
	SITE LIGHTING W/ LIGHT POLE & LIGHT FIXTURE ASSEMBLY, EXCL UNDERGROUND DISTRIBUTION, W	IDING EYCA	VATION & RA	CKEII I
81230	20' ALUMINUM POLE, 400 WATT HIGH PRESSURE SODIUM (HPS)	1 1	EA	\$3,959.00
01230	40' ALUMINUM POLE, 1000 WATT HIGH PRESSURE SODIUM (HPS)	1	EA	\$6,885.00
	40' HIGH FIBERGLASS POLE, 1000 WATT HIGH PRESSURE SODIUM (HPS)	1	EA	\$5,651.00
	20' ALUMINUM POLE, 400 WATT METAL HALIDE (MH)	1	EA	\$3,901.00
	40' ALUMINUM POLE, 1000 WATT METAL HALIDE (MH)	1	EA	\$6,828.00
	40' HIGH FIBERGLASS POLE, 1000 WATT METAL HALIDE (MH)	1	EA	\$5,566.00
	OVERHEAD (OH) ELECTRIC LINES - INCL. COST OF WOOD POLES @ 250' SPACING, 3 PHASE 4 Wire ALUMIN	UM CONDUC	TOR STEEL RI	<u> </u> EINF
81241	H-FRAME DISTRIBUTION LINES, 15-69 kV SHORT LINES w/ CROSS ARM & INSUL	1,000	LF	\$51,410.00
	OVERHEAD LINES BELOW 15 kV w/ CROSS ARMS & INSULATORS	1,000	LF	\$48,320.00
	<u>U/G ELECTRIC LINES (DIRECT BURIAL (DB)</u> - INCL. Cost of COPPER Service Entrance CABLE (SEU) CONDUCT	OR, CHAIN EX	CAVATOR to	] 3" and BACKFILL
81242	# 1/0 -3/C, 600 Volt DB, SEU COPPER CONDUCTOR, EXCAV & BACKFILL	1	LF	\$488.00
	# 4/0 - 3/C, 600 Volt DB, SEU COPPER CONDUCTOR, EXCAV & BACKFILL	1	LF	\$590.00
	<u>CABLE TERMINATORS</u> - OUT DOOR SYSTEMS			
81242	CABLE TERMINATION, 15 kV, #1 SOLID to 4/0 STRANDED	1	EA	\$396.00
	CABLE TERMINATION, 15 kV, #2/0 SOLID to 350 KCMIL STRANDED	1	EA	\$431.00
	CABLE TERMINATION, 15 kV, 400 KCMIL to 750 KCMIL STRANDED	1	EA	\$493.00
	<u>CABLE SPLICING</u> , 15 kV, UNDERGROUND RESIDENTIAL DISTRIBUTION (URD) CABLE or SIMILAR			

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
81242	CABLE SPLICING, URD or SIMILAR, #1 STRANDED to 4/0 STRANDED,	1	EA	\$488.00
	CABLE SPLICING, URD or SIMILAR, 4/0 STRANDED to 500 KCMIL STRANDED	1	EA	\$590.00
	UNDERGROUND (UGND) ELECTRIC DUCTBANKS - INCL Cost of EXCAVATION (EXCAV), CAST IN PLACE (CIP)	CONC & BA	CKFILL to 3' D	L EEP
81242	1-WAY-4" Diameter (DIA) PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$20.90
	2-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$36.70
	4-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$63.00
	6-WAY-6" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$148.00
81242	1-WAY-2" DIA RIGID GALVANIZED STEEL (RGS) ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$29.30
	1-WAY-3" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$53.00
	1-WAY-4" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$67.00
	1-WAY-5" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$93.00
	1-WAY-6" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$115.00
81242	2-WAY-2" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$44.10
	2 WAY-3" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$76.00
	2-WAY-4" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$104.00
	2-WAY-5" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$171.00
	2-WAY-6" DIA RGS, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$239.00
81242	3-WAY-2" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$65.00
	3-WAY-3" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$107.00
	3-WAY-4" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$148.00
	3-WAY-5" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$246.00
	3-WAY-6" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$344.00
81242	4-WAY-2" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$84.00
	4-WAY-3" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$137.00
	4-WAY-4" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$192.00

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	4-WAY-5" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$320.00
	4-WAY-6" DIA RGS, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$454.00
81242	1-WAY-2" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$17.70
	1-WAY-3" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$20.60
	1-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$24.80
	1-WAY-5" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$28.70
	1-WAY-6" DIA PVC, ENCASED BURIAL, INCL EXCAV,CIP CONC & BACKFILL	1	LF	\$34.40
81242	2-WAY-2" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$27.50
	2-WAY-3" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$32.70
	2-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$39.60
	2-WAY-5" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$47.60
	2-WAY-6" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$59.00
81242	4-WAY-2" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$43.10
	4-WAY-3" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$52.00
	4-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$62.00
	4-WAY-5" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$75.00
	4-WAY-6" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$97.00
81242	6-WAY-4" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$96.00
	6-WAY-5" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$113.00
	6-WAY-6" DIA PVC, ENCASED BURIAL, INCL EXCAV, CIP CONC & BACKFILL	1	LF	\$153.00
	ELECTRICAL (ELECT) UNDERGROUND (UGND) MANHOLES (MH), EXCL COST OF EXCAVATION, CIP CON		<u> </u>	
81242	UGND HAND HOLES, 4' x 4' x 4' DEEP, PRECAST CONC w/ COVER, EXCL EXCAV, CIP CONC & BACKFILL	1	EA	\$3,155.00
	ELECT UGND MH, 6' x 10' x 7' DEEP, PRECAST w/ IRON RACKS & PULLING IRONS, C.I. FRAME & COVER	1	EA	\$13,310.00
	ELECT UGND MH, 6' x 8' x 7' DEEP, PRECAST w/ IRON RACKS & PULLING IRONS, C.I. FRAME & COVER	1	EA	\$11,940.00

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
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	\$34,880.00
	TRANSFORMERS (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	\$21,920.00
	XFMR 225 kVA, OIL FILLED, 15 kV w/TAPS, 480 V SECONDARY 3 PHASE	1	EA	\$24,210.00
	XFMR 500 kVA, OIL FILLED, 15 kV W/ TAPS, 480 V SECONDARY 3 PHASE	1	EA	\$28,570.00
	XFMR 1,000 kVA, OIL FILLED, 15 kV W/ TAPS, 480 V SECONDARY 3 PHASE	1	EA	\$51,870.00
	XFMR 2,000 KVA, OILL FILLED, 15 kV W/ TAPS, 480 V SECONDARY 3 PHASE	1	EA	\$72,860.00
81360	XFMR 15 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$9,639.00
	XFMR 25 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$10,640.00
	XFMR 37.5 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$11,820.00
	XFMR 50 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$12,850.00
	XFMR 75 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$14,350.00
	XFMR 100 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$16,060.00
	XFMR 167 kVA, DRY TYPE, SINGLE PHASE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$21,110.00
81360	XFMR, 75 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$11,480.00
	XFMR, 112.5 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$12,620.00
	XFMR, 150 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$13,880.00
	XFMR, 225 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$16,520.00
	XFMR, 500 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$25,600.00
	XFMR, 750 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$37,870.00
	XFMR, 1000 kVA, DRY TYPE - VENTILATED, 3 PHASE 480 V PRIMARY 120/208 V SECONDARY	1	EA	\$42,230.00
81360	XFMR, 10 kVA, DRY TYPE On 36' POLE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$5,134.00
	XFMR, 15 KVA, DRY TYPE On 36' POLE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$5,738.00
	XFMR, 25 kVA, DRY TYPE On 36' POLE, 240/480 V PRIMARY 120/240 V SECONDARY	1	EA	\$6,742.00

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)		
81360	MAIN POWER (PWR) TRANSFORMER (XFMR) - INCL COST Of PAD MOUNTING (MTD) W/BOLLARDS & GROUP	NDING LOO	P (GL)			
	MAIN PWR XFMR 46 kV, PAD MTD, w/ BOLLARDS & GL (1 MVA = 1,000 kVA)	1	KVA	\$38.80		
	MAIN PWR XFMR 110 kV, PAD MTD, w/ BOLLARDS & GL (1 MVA = 1,000 kVA)	1	KVA	\$33.20		
	MAIN PWR XFMR 161 kV, PAD MTD, W/ BOLLARDS & GL (1 MVA = 1,000 kVA)	1	KVA	\$31.00		
	MAIN PWR XFMR 500 kV, PAD MTD, W/ BOLLARDS & GL (1 MVA = 1,000 kVA)	1	KVA	\$30.40		
81360	TRANSFORMERS (XFMR) - 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	\$57,020.00		
	150 kVA XFMR, PAD MTD, 13,800 VOLTS TO 480/277 VOLTS W/ BOLLARDS & GL	1	EA	\$57,950.00		
	225 kVA XFMR, PAD MTD, 13,800 VOLTS TO 480/277 VOLTS W/ BOLLARD & GL	1	EA	\$65,980.00		
	500 kVA XFMR, PAD MTD, , 13,800 VOLTS TO 480/277 VOLTS	1	EA	\$75,170.00		
	STEAM (ST) CONDENSATE LINES, UNDERGROUND (UGND) - FROM CENTRAL PLANT TO BUILDING					
	<u>COMMON CONDUIT, UGND</u> - COMBINED STEAM (ST) SUPPLY & CONDENSATE (CNDS) RETURN (RTN) PIPES, MANHOLES @ 250' O.C., 3' DEEP EXCAV & BACKFILL	INCL FITTIN	NGS, TESTING	& STEAM		
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	\$579.00		
	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	\$574.00		
	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	\$574.00		
	1" ST & 1" CNDS RTN PIPE, PREFAB BLACK STEEL in 10-3/4" INSUL CASE W/ MH @ 250' O.C.	1	LF	\$574.00		
	SINGLE CONDUIT - STEAM OR HIGH PRESSURE WATER PIPE, w/ INSULATED CASE ON SUPPORTS, INCL FITTI	NGS (FTG) &	 & TESTING (TS	T)		
82210	1-1/4" ST PIPE, PREFAB BLACK STEEL in 12-3/4" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$357.00		
	1-1/2" ST PIPE, PREFAB BLACK STEEL in 12-3/4" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$357.00		
	2" ST PIPE, PREFAB BLACK STEEL in 12-3/4" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$372.00		
	2-1/2" ST PIPE, PREFAB BLACK STEEL in 12-3/4" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$396.00		
	3" ST PIPE, PREFAB BLACK STEEL in 14" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$396.00		
	4" ST PIPE, PREFAB BLACK STEEL in 14" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$431.00		
	6" ST PIPE, PREFAB BLACK STEEL in 18" INSUL CASE ON SUPPORTS, INCL FTG & TST	1	LF	\$533.00		

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)	
	CONCRETE TRENCH W/ COVER for STEAM AND HOT WATER PIPING				
82210	18" DEEP x 24" WIDE x 6" THICK WALL w/ CONC COVER	1	LF	\$164.0	
	HOT WATER LINES, UNDERGROUND				
82220	COMMON CONDUIT - COMBINED HOT WATER (HW) SUPPLY & RETURN (RTN) PIPES, PREFABRICATED BLACE FITTINGS (FTG), TESTING TST), EXCAVATION & BACKFILL	CK STEEL, IN	SULATED CAS	SE, INCL	
	1" HW & 1" RET PIPE in 10-3/4" PREFAB BLACK STEEL INSUL CASE, INCL EXCAV, BKFL, FTG & TST	1	LF	\$424.0	
	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	\$424.0	
	2" HW & 2" RET PIPE in 10-3/4" PREFAB BLACK STEEL INSUL CASE, INCL EXCAV, BKFL, FTG & TST	1	LF	\$431.	
	3" HW & 3" RET PIPE in 16" PREFAB BLACK STEEL INSUL CASE, INCL EXCAV, BKFL, FTG & TST	1	LF	\$488.0	
	4" HW & 4" RET PIPE in 10" PREFAB BLACK STEEL INSUL CASE, INCL EXCAV, BKFL, FTG & TST	1	LF	\$642.	
	STEAM DISTRIBUTION MANHOLE (MH) , PREFAB STEEL				
82220	STEAM DISTRIBUTION MANHOLE (MH) , PREFAB STEEL, 8' X 6' HT, INCL MH VENT, PIPING, CONDUIT & LADDER	1	EA	\$19,510.	
	GAS PIPELINES for PLAIN & NATURAL GAS PIPING (PNG) - PLAIN END, TAR COATED (CTD) & WRAPPED, INCL EXCAVATION & BACKFILL				
82410	1" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$25.	
02110	2" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$31.	
	3" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$39	
	4" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BFFL	1	LF	\$53.	
	6" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$81.	
	8" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$114.	
	12" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$255.	
	18" DIA. STEEL PIPE, SCHEDULE 40, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$362	
	24" DIA. STEEL PIPE SCHEDULE 40, PLAIN END, TAR CTS, INCL EXCAV & BKFL	1	LF	\$596	
82410	4" DIA. STEEL PIPE, SCHEDULE 80, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$99.	
	6" DIA. STEEL PIPE, SCHEDULE 80, PLAIN END, TAR CTD, INCL EXCAV & BKFL	1	LF	\$170	
	SEWAGE LIFT STATION, PACKAGED (PCKG) SEWAGE LIFT STN, EXCL FENCING, EXTERNAL (EXT) PIPING (F	NC) OD LUTT	EOITE DE DO		

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)	
83150	200,000 GPD, PCKG SEWAGE LIFT STN, EXCL FENCING OR EXT PNG	1	EA	\$354,030.00	
	100 GPM, PCKG SEWAGE LIFT STN, EXCL FENCING OR EXT PNG	1	EA	\$308,460.00	
	200 GPM, PCKG SEWAGE LIFT STN, EXCL FENCING OR EXT PNG	1	EA	\$395,910.00	
	SEWERAGE EJECTOR PUMP - DUPLEX SYSTEM, W/ FIBERGLASS TANK, 135 GALLONS, OPERATING & LEVEI	L L CONTROLS	<u> </u>		
83150	174 GPM PUMP, 0.7 HP, 15' HEAD, 2" DISCHARGE, INCL FIBERGLASS TANK, CNTRLS, & TANK COVER	1	EA	\$4,562.00	
	SANITARY SEWER - STORM DRAINAGE (SD) MANHOLES (MH), CONCRETE CAST IN PLACE (CIP), INCL FRA	<u> </u> MES & COVI	<u> </u> ERS		
83210	4' x 4', 8" THICK SD MH, 4' DEEP CIP CONC, INCL FRAMES & COVERS, EXCL FTG, EXCAV, BKFL	1	EA	\$4,758.00	
	4' x 4', 8" THICK SD MH, 6' DEEP CIP CONC, INCL FRAMES & COVERS, EXCL FTG, EXCAV, BKFL	1	EA	\$6,513.00	
	4' DIA, 8" THICK SD MH, 8' DEEP CIP CONC, INCL FRAMES & COVERS, INCL BASE EXCAV & BKFL	1	EA	\$10,560.00	
	4' DIA, 8" THICK SD MH, > 8' DEEP CIP CONC, INCL FRAMES & COVERS, INCL BASE EXCAV & BKFL	1	VLF	\$1,142.00	
	4' DIA, TO 8' DEEP PRECAST CONC SD MH, INCL FRAMES & COVERS, INCL BASE EXCAV & BKFL	1	VLF	\$826.00	
	4' DIA, > 8' DEEP PRECAST CONC SD MH, INCL FRAMES & COVERS, INCL BASE EXCAV & BKFL	1	VLF	\$867.00	
	<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	\$4,877.00	
	5' INTERNAL DIA, 6' DEEP PRECAST CONC CB, INCL BASE EXCAV & BKFL	1	EA	\$5,365.00	
	CURB INLET/ GUTTERMOUTH - INCL CURB INLET FRAME, GRATE & CURB BOX; EXCL FOOTING, CB EXCAV	   & BKFL & F	 PIPING OF DRA	<u> </u> AIN	
83210	24" x 36" LARGE, HEAVY DUTY CURB INLET, INCL FRAME, GRATE & CURB BOX, EXCL CB	1	EA	\$1,693.00	
	STORMWATER DRAINAGE (SD) PONDS - INCLUDES FENCE, SEEDING SLOPES, PARTIAL LINER & EXCAVATION				
83210	1/8 ACRES, 5' DEEP SD POND, INCL SEEDING SLOPES, PARTIAL LINER & EXCAV	1	EA	\$25,350.00	
	1/4 ACRES, 5' DEEP SD POND, INCL SEEDING SLOPES, PARTIAL LINER & EXCAV	1	EA	\$50,740.00	
	3/8 ACRES, 5' DEEP SD POND, INCL SEEDING SLOPES, PARTIAL LINER & EXCAV	1	EA	\$76,310.00	
	1/2 ACRES, 5' DEEP SD POND, INCL SEEDING SLOPES, PARTIAL LINER & EXCAV	1	EA	\$101,560.00	
	WATER DISTRIBUTION LINES - CEMENT LINED DUCTILE IRON PIPE (DI), INCL MECHANICAL JOINT (MJ), EX	<u>I</u> KCAVATION	L & BACKFILL,	<u>l</u> EXCL FITTINGS (	
84210	4" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$51.00	

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	6" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$59.00
	10" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$96.00
	12" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$109.00
	18" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$176.00
	24" DIA. 18' LENGTHS, CLASS 50 DI PIPE CEMENT LINED, INCL MJ, EXCAV, BKFL, EXCL FTGS	1	LF	\$254.00
	WATER DISTRIBUTION LINES - FIBERGLASS (FBGLS) PLASTIC PIPE, FILAMENT WOUND (FW), GENERAL	SVC, INCL. EXC	L CAVATION & I	I BACKFILL
84210	2" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$47.60
	3" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$57.00
	4" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$67.00
	6" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$97.00
	10" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$178.00
	12" DIA FBGLS PLASTIC PIPE, FILAMENT WOUND, GENERAL SVC, INCL EXCAV & BKFL	1	LF	\$217.00
	WATER DISTRIBUTION LINES - PLASTIC PIPE, PVC, INCL EXCAVATION & BACKFILL			
84210	1" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$31.50
	2" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$41.90
	3" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$52.00
	4" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$60.00
	6" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$89.00
	10" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$180.00
	12" DIA PVC PIPE, SCHEDULE 40, INCL EXCAV & BKFL	1	LF	\$211.00
	WATER DISTRIBUTION LINES - PLASTIC PIPE, PVC; INCL EXCAVATION & BACKFILL			
84210	1" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$33.20
	2" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$45.90
	3" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$58.00
	4" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$68.00
	6" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$110.00
	10" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$205.00

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)		
	12" DIA PVC PIPE, SCHEDULE 80, INCL EXCAV & BKFL	1	LF	\$243.00		
	<u>WATER DISTRBN LINE</u> - <u>PLASTIC PIPE, HIGH DENSITY POLYETHYLENE (HDPE)</u> , SINGLE (SGL) WALL, STRAI	GHT (STR), V	VELDED, INCL	EXCAV & BKFL		
84210	1" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$8.30		
	2" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$9.80		
	3" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$10.50		
	4" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$12.60		
	6" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$22.30		
	10" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$40.20		
	12" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$54.00		
	18" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$99.00		
	24" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$106.00		
	36" DIA HPDE PIPE, DR 11, SGL WALL, STR, BASED ON 40' LENGTH & 1 WELD/JOINT, INCL EXCAV & BKFL	1	LF	\$127.00		
84472	WATER PUMP, NONPOTABLE - FIRE PUMP, DIESEL (DSL), INCL. PUMP, CONTROLLER, FITTINGS (FTGS) & RELIEF VALVE (PRV), NO BLD					
	500 GPM - 4" DSL PUMP, 125 PSI, 78 HP, INCL CONTROLLER, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$60,820.00		
	1000 GPM - 4" DSL PUMP, 100 PSI, 89 HP, INCL CONTROLLER, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$60,240.00		
	2000 GPM - 6" DSL PUMP, 100 PSI, 167 HP, INCL CONTROLLER, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$79,170.00		
	2500 GPM - 8" DSL PUMP, 150 PSI, 365 HP, INCL CONTROLLER, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$108,450.00		
84472	1000 GPM- 5" ELECT PUMP, 100 PSI, 86 HP, 3500 RPM, INCL CONTRLR, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$38,340.00		
	2000 GPM- 6" ELECT PUMP, 100 PSI, 167 HP, 1770 RPM, INCL CONTRLR, FTGS, & PRV, NO PUMP STN BLD	1	EA	\$50,140.00		
	<u>WATER STORAGE TANK</u> - <u>ABOVEGROUND (AG) ELEVATED (ELEV) STEEL STORAGE (STOR) TANK, 100' HIGH TOWER,</u> INCL SPREAD (SPRD) FOUNDATION (FDN), PAINTING (PNT), EXCL PIPES & PUMPS					
84610	50,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$298,940		
	100,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$450,980		
	150,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$675,910		
	250,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$1,211,810		

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)	
	500,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$2,155,110	
	750,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$2,614,700	
	1,000,000 GA, ELEV STEEL STOR TANK, 100' HIGH TOWER, INCL SPRD FDN, PNT, EXCL PIPES & PUMPS	1	EA	\$3,746,760	
	GROUND STORAGE TANK (WATER) - ABOVEGROUND (AG) PRE-STRESSED CONCRETE TANK; INCL INTEGR PUMPS	L AL FOUNDA	I TION (FDN), E	L XCL PIPES AND	
84610	100,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$250,160	
	250,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$483,120	
	500,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$785,500	
	1,000,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$1,183,700	
	2,000,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$1,728,220	
	4,000,000 GA, AG PRE-STRESSED CONC WATER TANK, INCL INTEGRAL FDN, EXCL PIPES & PUMPS	1	EA	\$2,751,250	
	<u>RESERVOIR (RSVR), POTABLE WATER</u> - <u>GROUND LEVEL (GL) STEEL STORAGE (STOR) TANK,</u> INCL 1' x 3' RI PIPES & PUMPs	L NG WALL FO	L DUNDATION (F	I FDN), EXCL	
84620	250,000 GA, STEEL STOR TANK, GL, INCL 1' x 3' RING WALL FDN, EXCL PIPES & PUMPS	1	EA	\$481,970	
	500,000 GA, STEEL STOR TANK, GL, INCL 1' x 3' RING WALL FDN, EXCL PIPES & PUMPS	1	EA	\$677,050	
	1,000,000 GA, STEEL STOR TANK, GL, INCL 1' x 3' RING WALL FDN, EXCL PIPES & PUMPS	1	EA	\$1,067,220	
	2,000,000 GA, STEEL STOR TANK, GL, INCL 1' x 3' RING WALL FDN, EXCL PIPES & PUMPS	1	EA	\$1,690,350	
	4,000,000 GA, STEEL STOR TANK, GL, INCL 1' x 3' RING WALL FDN, EXCL PIPES & PUMPS	1	EA	\$3,436,920	
84620	<u>UNDERGROUND (UGND) STORAGE (STOR) TANK</u> - <u>FIBERGLASS (FBGLS)</u> , DOUBLE (DBL) WALL, U.L. LISTED, INCLUDES MANWAYS, SLAB, & HOLD-DOWN STRAPS				
	600 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$13,770.00	
	1,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$18,930.00	
	2,500 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$30,290.00	
	4,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$37,300.00	
	6,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$50,390.00	
	8,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$59,100.00	
	10,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$69,420.00	

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)	
	12,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$83,770.00	
	15,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$105,000.00	
	20,000 GA, FBGLS DBL WALL STOR TANK, UGND, U.L. LISTED, INCL MANWAYS, SLAB & HOLD-DN STRPS	1	EA	\$128,530.00	
	ABOVE GROUND (AG) FUEL STORAGE (STOR) TANK - CONCRETE; INCLUDES PAD	<u> </u>	<u> </u>		
84620	500 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$16,060.00	
	1,000 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$21,580.00	
	2,000 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$27,660.00	
	4,000 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$34,550.00	
	8,000 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$52,450.00	
	12,000 GA, CONCRETE STOR TANK, ABOVE GROUND, INCL PAD	1	EA	\$69,420.00	
	ROADS/ LARGE PAVEMENTS - PLANT MIX ASPHALT CONCRETE (AC) SURFACE; EXCL EARTHWORK (CUT &	FILL, CC 93	<u> </u> 410)		
85110	1-1/2" THICK PLANT MIX AC PAVING, WEARING COURSE, EXCL EARTHWORK (CUT & FILL, CC 93410)	1	SY	\$10.10	
	2" THICK PLANT MIX AC PAVING, WEARING COURSE, EXCL EARTHWORK (CUT & FILL, CC 93410)	1	SY	\$13.20	
	3" THICK PLANT MIX AC PAVING, WEARING COURSE, EXCL EARTHWORK (CUT & FILL, CC 93410)	1	SY	\$19.20	
	RECYCLED PLANT MIX BITUMINOUS CONCRETE (BIT CONC) PAVEMENT (PVMT)				
85110	PLANT MIXED BIT CONC, RECLAIMED PVMT IN STOCKPILE, 145 LB/CF	1	TON	\$71.00	
	PLANT MIXED BIT CONC, RECYCLED PVMT OLD/NEW RATIO 70:30	1	TON	\$77.00	
	<u>UNREINFORCED CONC PAVEMENTS (PVMT)</u> , <u>FIXED FORM</u> , 12' PASS, INCL JOINTS, FINISHINGS, & CURING EXCL. EARTHWORK				
85110	6" THICK, UNREINF PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$33.20	
	8" THICK, UNREINF PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$44.80	
	10" THICK, UNREINF PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$56.00	
	12" THICK, UNREINF PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$62.00	
	16" THICK, UNREINF PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$84.00	
	REINFORCED CONC PAVEMENTS (PVMT), FIXED FORM, 12' PASS, INCL JOINTS, FINISHINGS, & CURING EXC	L FARTHW	DRK		

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
85110	6" THK, REINF CONC PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$49.80
	8" THK, REINF CONC PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$60.00
	10" THK, REINF CONC PVMT, 4500 PSI, FIXED FORM, 12' PASS, INCL JOINTS, FIN & CUR, EXCL ERTHWRK	1	SY	\$72.00
	<u>CAST IN PLACE (CIP) CONCRETE CURB &amp; GUTTER (C&amp;G)</u> , <u>STRAIGHT</u> , WOOD FORM, NO EARTHWORK INC	L LUDED		
85110	6" HI CURB, 6" THK GUTTER, 24" WIDE, CIP CONC, STR WOOD FORMS, 0.055 C.Y. / LF, EXCL ERTHWRK	1	LF	\$32.10
	6" HI CURB, 6" THK GUTTER, 30" WIDE, CIP CONC, STR WOOD FORMS, 0.066 C.Y. / LF, EXCL ERTHWRK	1	LF	\$60.00
	PRECAST CONC CURBS 6" HI x 18" WIDE, NO ERTHWRK INCLUDED	1	LF	\$72.00
	BASE COURSE DRAINAGE LAYERS for ROADWAYS & LARGE PAVED AREAS - COMPACTED, EXCL EARTH	<u> </u> WORK (ERTH	  WRK)	
85110	1-1/2" CRUSHED STONE BASE TO 4" DEEP, COMPACTED, INCL TRANS & EQPT, EXCL ERTHWRK	1	SY	\$7.20
	1-1/2" CRUSHED STONE BASE TO 6" DEEP, COMPACTED, INCL MATERIAL & TRANS, EXCL ERTHWRK	1	SY	\$10.10
	1-1/2" CRUSHED STONE BASE TO 8" DEEP, COMPACTED, INCL MATERIAL & TRANS, EXCL ERTHWRK	1	SY	\$13.20
	1-1/2" CRUSHED STONE BASE TO 12" DEEP, COMPACTED, INCL MATERIAL & TRANS, EXCL ERTHWRK	1	SY	\$18.90
	BANK RUN GRAVEL BASE COURSE, SPREAD & COMPACTED, INCL TRANS & EQPT, EXCL ERTHWRK			
85110	BANK RUN GRAVEL BASE, 6" DEEP, SPREAD & COMPACTED, INCL TRANS & EQPT, EXCL ERTHWRK	1	SY	\$6.90
	BANK RUN GRAVEL BASE, 9" DEEP, SPREAD & COMPACTED, INCL TRANS & EQPT, EXCL ERTHWRK	1	SY	\$10.10
	BANK RUN GRAVEL BASE, 12" DEEP, SPREAD & COMPACTED, INCL TRANS & EQPT, EXCL ERTHWRK	1	SY	\$13.20
	PLANT MIXED BITUMINOUS CONCRETE BASE COURSE, EXCL EARTHWORK			
85110	PLANT MIXED BITUMINOUS CONC BASE, 4" THICK, EXCL ERTHWRK	1	SY	\$23.50
	PLANT MIXED BITUMINOUS CONC BASE, 6" THICK, EXCL ERTHWRK	1	SY	\$33.80
	PLANT MIXED BITUMINOUS CONC BASE, 8" THICK, EXCL ERTHWRK	1	SY	\$45.40
	PLANT MIXED BITUMINOUS CONC BASE, 10" THICK, EXCL ERTHWRK	1	SY	\$56.00
	SURFACE TREATMENTS	ı		ı
85110	TACK COAT, ELMUSION, 15 GALLONS/SY	1	SY	\$2.10
	SLURRY SEAL, TYPE II, 12 lb AGGREGATE/SY	1	SY	\$6.00

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	PAVEMENT MARKINGS, ACRYLLIC WATERBORNE, 4" WIDE WHITE OR YELLOW, < 3000 LF	1	LF	\$0.40
	SIDEWALKS & WALKWAYS - PEDESTRIAN SIDEWALKS & WALKWAYS, WITH BASE COURSE. SEE CC 85110	EOD DDIVEM	AVS & POAD	
85220	4" THICK CAST IN PLACE (CIP) CONC, 6' x 6' -W 1.4 x W1.4 MESH, 3000 PSI, BROMMED FINISH, W/ BASE		SY	\$65.00
63220	2-1/2" ASPHALT CONCRETE W/ BASE	1	SY	\$21.50
	2-1/2 ASI HALI CONCRETE W/ DASE	1	51	Ψ21.30
	RAILROAD (RR) TRACKS W/TIES AND BALLAST FOR STANDARD GAUGE. TRACK IS DEFINED AS A SINGLE	E PAIR OF RAI	LS,	<u> </u>
86010	RR TRACKS, 100 LB Rail, LEVEL GRADE, W/ WOOD TIES, INCL BALLASTS, CLIPS, ANGLE BARS & BOLTS.	1	LF	\$295.00
	STORM WATER DRAINAGE SEWER/PIPING - INCL EXCAV & BKFL. TYPICALLY STORM WATER DRAINAGE INLET, RETENTION BASINS, PIPELINES, ACCESS MANHOLES, & OTHER COMPONENTS	E SYSTEM W	ILL CONSISTS	OF DRAINAGE
	CORRUGATED METAL PIPE (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	\$28.00
	10" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$33.20
	12" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$39.60
	15" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$43.60
	18" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$49.30
	24" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$60.00
	30" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$88.00
	36" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$101.00
	60" DIA CMP PIPE, GALV & BITUMN CTD, 16 GA, w/ PAVED INVERT, 20' LONG, INCL EXCAV & BKFL	1	LF	\$202.00
	NON-REINFORCED (NR) CONCRETE PIPE, EXTRA STRENGTH, INCL EXCAV & BKFL	+		
87110	6" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$40.20
0/110	10" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$43.10
	12" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$47.60
	18" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$65.00
	24" DIA NR CONC PIPE, EXTRA STRENGHT, B&S OR T&G JOINTS, INCL EXCAV & BKFL	1	LF	\$92.00
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APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	REINFORCED CONCRETE PIPE (RCP), CLASS 3, INCL EXCAV, BKFL & GASKETS			
87110	12" DIA RCP, 6' LENGHTS, CLASS-3, INCL EXCAV, BKFL & GASKETS	1	LF	\$56.00
	18" DIA RCP, 6' LENGHTS, CLASS-3, INCL EXCAV, BKFL & GASKETS	1	LF	\$72.00
	24" DIA RCP, 8' LENGHTS, CLASS-3, INCL EXCAV, BKFL & GASKETS	1	LF	\$97.00
	36" DIA RCP, 8' LENGHTS, CLASS-3, INCL EXCAV, BKFL & GASKETS	1	LF	\$177.00
	60" DIA RCP, 8' LENGHTS, CLASS-3, INCL EXCAV, BKFL & GASKETS	1	LF	\$351.00
	SELECTIVE DEMOLITION (DEMO) OF WATER & SEWER PIPINGS & FITTINGS (FTG), EXCL EXCAV			
87110	DEMO CONC PIPE, 42"- 48" DIA & FTG, EXCL EXCAV	1	LF	\$60.00
	DEMO CONC PIPE, 60"- 84" DIA & FTG, EXCL EXCAV	1	LF	\$73.00
	DEMO DUCTILE IRON PIPE, 6"- 12" DIA, EXCL EXCAV	1	LF	\$22.70
	DEMO DUCTILE IRON PIPE, 14"- 24" DIA, EXCL EXCAV	1	LF	\$33.20
	DEMO COPPER PIPE, 3/4" - 2" DIA, EXCL EXCAV	1	LF	\$2.00
	DEMO COPPER PIPE, 2 1/2" - 3" DIA, EXCL EXCAV	1	LF	\$5.20
	INDUSTRIAL CHAIN LINK FENCING & WALLS			
	GALVANIZED (GALV) STEEL FENCE, SCHEDULE (SCH) 40, INCL EXCAV & CONCRETE (CONC)			
87210	4' HI, 9 GA GALV STEEL 3-STRANDS BARB WIRE, SCH 40, W/ 2" POSTS @ 10' OC, INCL EXCAV & CONC	1	LF	\$24.80
	6' HI, 9 GA GALV STEEL 3-STRANDS BARB WIRE, SCH 40, W/ 2" POSTS @ 10' OC, INCL EXCAV & CONC	1	LF	\$35.10
	8' HI, 9 GA GALV STEEL 3-STRANDS BARB WIRE, SCH 40, W/ 2" POSTS @ 10' OC, INCL EXCAV & CONC	1	LF	\$45.40
	10' HI, 9 GA GALV STEEL 3-STRANDS BARB WIRE, SCH 40, W/ 2" POSTS @ 10' OC, INCL EXCAV & CONC	1	LF	\$53.00
	FENCE TOPPING, STAINLESS STEEL, HELICAL RAZOR TAPE, 18" DIA x 18" SPACING	100	LF	\$232.00
	ENTRANCE GATES, CHAIN LINK (CL) FENCE GATE, INDUSTRIAL			
87250	CL FENCE GATE 4' WIDE, 6' HIGH, 9 GA WIRE, SCH-20, W/ 2" POSTS, INCL EXCAV & CONC	1	EA	\$454.00
	CL FENCE GATE 12' OPENING, SINGLE (SGL) SWING, 6' HIGH, MANUAL OPRN, INCL EXCAV & CONC,	1	EA	\$994.00
	MOTOR OPERATOR FOR 12' OPENING, 6' HIGH, SGL SWING CL GATE	1	EA	\$5,021.00
	CL FENCE GATE 24' OPNG, PAIR, DOUBLE (DBL) SWING, 6' HIGH, MANUAL OPRN, INCL EXCAV & CONC,	1	EA	\$1,951.00

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	MOTOR OPERATOR FOR 24' OPENING, PAIR, 6' HIGH, DBL SWING CL GATE	1	EA	\$5,021.00
	CL FENCE GATE 36' OPENING, PAIR, DBL SLIDING, 6' HIGH, MANUAL OPRN, INCL EXCAV & CONC,	1	EA	\$2,439.00
	MOTOR OPERATOR FOR 36' OPENING, PAIR, 6' HIGH, DBL SLIDING GATE	1	EA	\$6,771.00
	CHAIN LINK (CL) FENCE GATE, INDUSTRIAL, INCL EXCAV & CONC			1
87250	4' HIGH FENCE, 1-5/8" FRAME, GATE 3' WIDE, 6' HIGH, GALV STEEL, INCL EXCAV, IN CONC	1	EA	\$329.00
	6' HIGH FENCE, 1-5/8" FRAME, GATE 3' WIDE, 6' HIGH, GALV STEEL, INCL EXCAV, IN CONC	1	EA	\$470.00
	8' HIGH FENCE, 1-5/8" FRAME, GATE 3' WIDE, 6' HIGH, GALV STEEL, INCL EXCAV, IN CONC	1	EA	\$625.00
	GATE 10' OPENING, DOUBLE SWING GATE, 8' HIGH,INCL EXCAV, POSTS & HARDWARE IN CONC	1	EA	\$2,008.00
	GATE 24' WIDE, 8' HIGH, OVERHEAD SLIDE, CANTILEVER TYPE, INCL EXCAV, IN CONC	1	EA	\$10,390.00
	SELECTIVE DEMOLITION - CHAIN LINK FENCE & GATES			
87250	DEMO 3' - 4' HIGH FENCE	1	LF	\$2.30
	DEMO 5' HIGH FENCE	1	LF	\$2.50
	DEMO 12' HIGH FENCE	1	LF	\$5.80
	DEMO 3' - 4' WIDE GATE	1	LF	\$77.00
88040	AT/FP VEHICULAR BARRIER - SEE AT THE END			<u> </u>
	FIRE HYDRANTS (FH), 2-WAY, 4-1/2" CUTOFF VALVE, 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	\$5,910.00
	FIRE HYDRANT 6' DEPTH, 2-WAY, 4-1/2" CUT-OFF VALVE, INCL MECH JOINTS, EXCAV & BKFL	1	EA	\$6,168.00
	FIRE HYDRANT 8' DEPTH, 2-WAY, 4-1/2" CUT-OFF VALVE, INCL MECH JOINTS, EXCAV & BKFL	1	EA	\$6,456.00
	SITE CLEARING & GRADING - CLEARING & GRUBBING			
93210	BRUSH AND STUMP, SURFACE ITEM CLEARING	1	SY	\$1.80
	CLEAR & GRUB, LIGHT TREES TO 6" DIA - CUT, CHIP & HAUL	1	ACRE	\$5,811.00
	CLEAR & GRUB, MEDIUM TREES TO 12" DIA, CUT, CHIP & HAUL	1	ACRE	\$8,321.00
	CLEAR & GRUB, HEAVY TREES TO 24" DIA, CUT, CHIP & HAUL	1	ACRE	\$19,520.00

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	GRUB STUMPS & REMOVE, TREES TO 12" DIA	1	ACRE	\$6,404.00
	SITE CLEARING & GRADING - GRADING			
93210	ROUGH GRADING, DUMPED MATERIAL SPREAD BY DOZER, NO COMPACTION	1	LINEAR CY	\$2.90
	FINE GRADING, GRANULER BUBBASE FOR PAVING, +/- 1" COMPACTION, 3 PASSES W/ DOZER, 6" LIFTS	1	SY	\$2.40
	SITE CLEARING & GRADING - BORROW, INCL LOAD AT PIT & HAUL, 2 MILES ROUNFD TRIP, NO COMPACT	ION		
93210	FLY ASH, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$37.20
	BANK RUN GRAVEL, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$47.60
	SAND, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$68.00
	GRAVEL, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$40.20
	COMMON FILL, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$33.80
	SILT CLAY, SPREAD w/ 200 HP DOZER, INCL LOAD AT PIT & HAUL 2 MI ROUND TRIP, NO CMPCT	1	CY	\$19.50
	LANDSCAPE AND PLANTING			
	SOIL PREPARATION - TOP SOIL			
93220	MIX & SPREAD CONDITIONED SOIL, SPREAD 4" DEEP BY HAND	1	SY	\$10.50
	SPREAD FERTILIZER, 0.2#/SY BY TRACTOR SPREADER	1,000	SF	\$10.70
	HAUL & SPREAD TOP SOIL, TRUCK DUMPED, INCL MATERIAL, TRANSPORT & PLACEMENT	1	CY	\$8.00
	STRIP TOPSOIL & STOCKPILE ON SITE, 6" DEEP BY 200 HP DOZER, 200' HAUL	1	SY	\$0.50
	SOIL PREPARATION - MULCHING			
93220	HAY, 1" DEEP, POWER MULCHER, LARGE AREA	1,000	SY	\$76.00
	PEAT MOSS, 1" DEEP, TRACTOR SPREADER	1,000	SY	\$402.00
	WOOD CHIPS, 2" DEEP, SKID STEER LOADER	1,000	SY	\$384.00
	WOOD CHIPS, 2" DEEP, HAND SPREAD, SMALL AREA	1	SY	\$4.70
	LANDSCAPE & PLANTING - GRASS			
93220	SEEDING - TALL FESCUE, 5.5 LB/1000 SF, TRACTOR SPREADER	1,000	SF	\$35.70

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	SEEDING - BLUE GRASS, 4LB/1000 SF, HYDRO OR AIR SEEDING W/ FERTILIZER	1,000	SF	\$68.00
	SODDING - 1" DEEP BLUEGRASS SOD ON LEVEL GROUND	1,000	SF	\$637.00
	LANDSCAPE & PLANTING - PLANTING BED PREPARATION			
93220	EXCAVATE PLANTING PIT, SANDY SOIL, 1/2 CY, BACKHOE	1	CY	\$12.10
	MIX PLANTING SOIL, INCLUDES LOAM, SKID STEER LOADER	1	CY	\$73.00
	REMOVE SOD, ARTICULATED LOADER	1	SY	\$0.70
	LANDSCAPE & PLANTING - GROUND COVER			
93220	PLANTAIN LILY (Hemerocallis Hybrids), ZONE 4, CONTAINER, 1 QUART	1	EA	\$35.10
	MOSS OR CREEPING PHLOX (Phlox Subulata), ZONE 4, CONTAINER, 1 GALLON	1	EA	\$35.10
	STONECROP (Sedum), ZONE 4, CONTAINER, 1 GALLON	1	EA	\$19.80
	LANDSCAPE & PLANTING - SHRUBS, BALLED & BURLAPED (B&B)			
93220	AZALEA EVERGREEN HYBRIDS, ZONE 6, CONTAINER BALLED & BURLAPED, 3 GALLON	1	EA	\$23.50
	COMMON BOXWOOD (Buxus Sempervirens), ZONE 5, CONTAINER BALLED & BURLAPED, 18" TO 24"	1	EA	\$61.00
	WINGED BURNING BUSH (Eunymus Alatus), ZONE 4, CONTAINER BALLED & BURLAPED, 18" - 24"	1	EA	\$32.10
	BLUE HOLLY (Ilex Meserve Blue Holly Hybr), ZONE 5, CONTAINER BALLED & BURLAPED, 18" - 24"	1	EA	\$32.70
	PJM RHODODENDRON, ZONE 4, CONTAINER BALLED &BURLAPED, 18" - 24"	1	EA	\$54.00
	LANDSCAPE & PLANTING - DECIDUOUS TREES			
93220	RED MAPLE (Acer Rubrum), ZONE 4, CONTAINER BALLED & BURLAPED, 1-1/2" To 2" CALIPER	1	EA	\$275.00
	AMERICAN BEECH (Fagus Grandiflora), ZONE 3, CONTAINER B&B, 1-1/2" To 1-3/4" CALIPER	1	EA	\$344.00
	LOMBARDY POPLAR (Poplus Nigra Italica), ZONE 4, CONTAINER BALLED & BURLAPED, 5 GALLON	1	EA	\$32.10
	RED OAK (Quercus Rubra), ZONE 4, CONTAINER BALLED & BURLAPED, 5 GALLON	1	EA	\$38.40
	LANDSCAPE - SUBSURFACE DRIP IRRIGATION (SDI)		<u> </u>	
93220	SDI , LOOPED GRID, REGULAR AREA, LARGE LINE, HAND BURY, PRESSURE COMP PREINSERTED EMITTER	1	LF	\$1.00
	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	\$285,750.00

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	UNDERGROUND SPRINKLERS IRRIGATION, RESIDENTIAL SYSTEM FOR LAWNS, 1-1/2" SUPPLY	1	SF	\$1.70
	DEMOLITION W/ DISPOSAL, BUILDING - INCL 20 MILE HAUL, EXCL FOUNDATION DEMO, HAZARDOUS MADUMP FEES. VOLUME (CF) IS THE VOLUME OF THE ENTIRE BUILDING	TERIAL DEM	  MO, SALVAGE/	RECYCLE &
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	\$0.5
	MASONRY OR WOOD FRAME - SMALL OR SINGLE; CF IS THE VOLUME OF THE ENTIRE BLDG	1	CF	\$0.5
	SELECTIVE DEMOLITION - BUILDING. EXCL DISPOSAL COST, RUBBISH HANDLING COSTS, SALVAGE & DU	JMP FEES	<u> </u>	<u> </u>
93310	DEMO CONC FLOOR SLAB ON GRADE, PLAIN CONC, TO 6" THK, EXCL DISP, SALVAGE & DUMP COSTS	1	SF	\$8.50
	GUTTING COMMERCIAL BLDG. INTERIOR, NO HAZARDOUS MATERIAL DEMO OR DUMPSTER FEES	1	SF	\$13.0
	LEAD BASED PAINT (LBP) REMOVAL BY CHEMICALS & DISPOSAL, CABINETS & WALLS SIMPLE DESIGN	1	SF	\$20.4
	COMPLIANCE WITH EM 385-1-1. UNLESS OTHERWISE RESTRICTED, MATERIALS COATED W/ LBP MAY BE I	PLACES IN 11	HE LANDFILL	•
		PLACES IN TR	HE LANDFILL	
93310	RUBBISH HANDLING- DISPOSAL COST	PLACES IN TE		
93310		1 1	TON CY	\$122.0
93310	RUBBISH HANDLING- DISPOSAL COST  DUMPSTER FEE, AVERAGE OF ALL SIZES (Note: TO BE ADD TO DEMO COST)	1 1	TON	\$122.0
93310	RUBBISH HANDLING- DISPOSAL COST  DUMPSTER FEE, AVERAGE OF ALL SIZES (Note: TO BE ADD TO DEMO COST)  RUBBISH HANDLING, 50' HAUL, INCL LOADING, HAUL TO CHUTE & DUMPING TO CHUTE	1 1 1	TON	\$122.0 \$47.0
	RUBBISH HANDLING- DISPOSAL COST  DUMPSTER FEE, AVERAGE OF ALL SIZES (Note: TO BE ADD TO DEMO COST)  RUBBISH HANDLING, 50' HAUL, INCL LOADING, HAUL TO CHUTE & DUMPING TO CHUTE  SELECTIVE BUILDING MATERIAL RECYCLE, INCL SALVAGE LABOR	1 1 1 1 1	TON CY	\$122.0 \$47.0 \$6.2
	RUBBISH HANDLING- DISPOSAL COST  DUMPSTER FEE, AVERAGE OF ALL SIZES (Note: TO BE ADD TO DEMO COST)  RUBBISH HANDLING, 50' HAUL, INCL LOADING, HAUL TO CHUTE & DUMPING TO CHUTE  SELECTIVE BUILDING MATERIAL RECYCLE, INCL SALVAGE LABOR  SALVAGE WOOD FLOOR, INCL SALVAGE LABOR FOR DENAILING & PACKAGING	1 1 1 1 1 1 1	TON CY SF	\$122.0 \$47.0 \$6.2
	RUBBISH HANDLING- DISPOSAL COST  DUMPSTER FEE, AVERAGE OF ALL SIZES (Note: TO BE ADD TO DEMO COST)  RUBBISH HANDLING, 50' HAUL, INCL LOADING, HAUL TO CHUTE & DUMPING TO CHUTE  SELECTIVE BUILDING MATERIAL RECYCLE, INCL SALVAGE LABOR  SALVAGE WOOD FLOOR, INCL SALVAGE LABOR FOR DENAILING & PACKAGING  SALVAGE CARPET, INCL SALVAGE LABOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TON CY SF	\$122.0 \$47.0 \$6.2 \$0.5
93310	RUBBISH HANDLING- DISPOSAL COST  DUMPSTER FEE, AVERAGE OF ALL SIZES (Note: TO BE ADD TO DEMO COST)  RUBBISH HANDLING, 50' HAUL, INCL LOADING, HAUL TO CHUTE & DUMPING TO CHUTE  SELECTIVE BUILDING MATERIAL RECYCLE, INCL SALVAGE LABOR  SALVAGE WOOD FLOOR, INCL SALVAGE LABOR FOR DENAILING & PACKAGING  SALVAGE CARPET, INCL SALVAGE LABOR  DEMOLITION - PAVEMENTS. REMOVE PAVEMENT & CURB, EXCL HAULING & DISPOSAL FEES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TON CY SF SF	\$122.0 \$47.0 \$6.2 \$0.5
93310	RUBBISH HANDLING- DISPOSAL COST  DUMPSTER FEE, AVERAGE OF ALL SIZES (Note: TO BE ADD TO DEMO COST)  RUBBISH HANDLING, 50' HAUL, INCL LOADING, HAUL TO CHUTE & DUMPING TO CHUTE  SELECTIVE BUILDING MATERIAL RECYCLE, INCL SALVAGE LABOR  SALVAGE WOOD FLOOR, INCL SALVAGE LABOR FOR DENAILING & PACKAGING  SALVAGE CARPET, INCL SALVAGE LABOR  DEMOLITION - PAVEMENTS. REMOVE PAVEMENT & CURB, EXCL HAULING & DISPOSAL FEES  DEMO & REMOVE CONC PVMT & CURB, TO 6" THK, MESH REINF, EXCL HAULING & DISPOSAL FEE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TON CY SF SF SF	\$122.0 \$47.0 \$6.2 \$0.5 \$19.5 \$150.0
93310	RUBBISH HANDLING- DISPOSAL COST  DUMPSTER FEE, AVERAGE OF ALL SIZES (Note: TO BE ADD TO DEMO COST)  RUBBISH HANDLING, 50' HAUL, INCL LOADING, HAUL TO CHUTE & DUMPING TO CHUTE  SELECTIVE BUILDING MATERIAL RECYCLE, INCL SALVAGE LABOR  SALVAGE WOOD FLOOR, INCL SALVAGE LABOR FOR DENAILING & PACKAGING  SALVAGE CARPET, INCL SALVAGE LABOR  DEMOLITION - PAVEMENTS. REMOVE PAVEMENT & CURB, EXCL HAULING & DISPOSAL FEES  DEMO & REMOVE CONC PVMT & CURB, TO 6" THK, MESH REINF, EXCL HAULING & DISPOSAL FEE  DEMO & REMOVE W/ BACKHOE PLAIN CONC, 7" To 24" THK, EXCL HAULING & DISPOSAL FEE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TON CY  SF SF CY	\$122.0 \$47.0 \$6.2 \$0.5 \$19.5 \$150.0 \$206.0
93310	RUBBISH HANDLING- DISPOSAL COST  DUMPSTER FEE, AVERAGE OF ALL SIZES (Note: TO BE ADD TO DEMO COST)  RUBBISH HANDLING, 50' HAUL, INCL LOADING, HAUL TO CHUTE & DUMPING TO CHUTE  SELECTIVE BUILDING MATERIAL RECYCLE, INCL SALVAGE LABOR  SALVAGE WOOD FLOOR, INCL SALVAGE LABOR FOR DENAILING & PACKAGING  SALVAGE CARPET, INCL SALVAGE LABOR  DEMOLITION - PAVEMENTS. REMOVE PAVEMENT & CURB, EXCL HAULING & DISPOSAL FEES  DEMO & REMOVE CONC PVMT & CURB, TO 6" THK, MESH REINF, EXCL HAULING & DISPOSAL FEE  DEMO & REMOVE W/ BACKHOE PLAIN CONC, 7" To 24" THK, EXCL HAULING & DISPOSAL FEE  DEMO & REMOVE ROD REINF CONC, 7" To 24", EXCL HAULING & DISPOSAL FEE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TON CY  SF SF CY CY	\$122.0 \$47.0 \$6.2 \$0.5 \$19.5 \$150.0 \$206.0 \$7.2 \$6.6

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	MINOR SITE DEMO, EXCL HAULING & DISPOSAL FEE			
93310	DEMO & REMOVE PLAIN CONC SLAB ON GRADE, EXCL HAULING & DISPOSAL FEE	1	SY	\$19.70
70010	DEMO & REMOVE ROD REINF CONC SLAB ON GRADE, 8" THK, EXCL HAULING & DISPOSAL FEE	1	CY	\$254.00
	DEMO & REMOVE PLAIN CONC, 4" THK, EXCL HAULING & DISPOSAL FEE	1	SY	\$14.70
	CUT AND FILL - BCY = BANKED CUBIC YARDS, ECY = EMBANKMENT CY, LCY = LOOSE CY			
	GRADING, COMMON EARTH:			
93410	FINE GRADING FOR SMALL IRREGULAR AREAS, TO 15,000 SY	1	SY	\$3.60
	FINE GRADING FOR ROADWAYS, BASE OR LEVELLING COURSE, LARGE AREA 6,000 SY OR MORE	1	SY	\$1.10
	SPREAD FILL FILL FROM STOCKPILE W/ FRONT LOADER, 200 H.P DOZER, TO 300' HAUL, NO COMPACTION	1	LCY	\$6.80
	CUT AND FILL: BCY = BANKED CUBIC YARDS, ECY = EMBANKMENT CY, LCY = LOOSE CY			
	EXCAVATION, COMMON EARTH:			
93410	EXCAVATION W/ 105 H.P. BULK DOZER, OPEN SITE 150' HAUL	1	BCY	\$6.80
	EXCAVATION W/ 300 H.P. BULK DOZER, OPEN SITE 150' HAUL	1	BCY	\$4.50
	EXCAVATION W/ 700 H.P. BULK DOZER, OPEN SITE 150' HAUL	1	BCY	\$2.30
	EXCAVATION TRENCH, 18" WIDE, 6' DEEP, OPEN SITE, BY CHAIN TRENCHER, 12 HP	1	BCY	\$1.60
	EXCAVATION TRENCH BY HAND W/ PICK & SHOVEL, 2' TO 6' DEEP, HEAVY SOIL, NO DEWATERING	1	BCY	\$141.00
93410	HAUL BY 8 CY TRUCK, CYCLE 6 MILES AT 30 MPH, 10 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$6.60
	HAUL BY 8 CY TRUCK, CYCLE 4 MILES AT 30 MPH, 10 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$5.30
	HAUL BY 8 CY TRUCK, CYCLE 4 MILES AT 30 MPH, 15 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$6.80
	HAUL BY 12 CY TRUCK, CYCLE 10 MILES AT 30 MPH, 25 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$12.70
	HAUL BY 16.5 CY TRUCK, CYCLE 10 MILES AT 30 MPH, 30 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$10.70
	HAUL BY 20 CY TRUCK, CYCLE 8 MILES AT 30 MPH, 30 MIN WAIT-LOAD-UNLOAD, NO LOADING EQUIP	1	LCY	\$8.10
	HAUL BY 12 CY TRUCK, EXCAVATED OR BORROW MATERIAL, 2 MILE ROUND-TRIP, 2.2 LOADS/HR	1	LCY	\$10.70
93410	BACKFILL & COMPACTION, TRENCH 6" TO 12" LIFTS, DOZER BKFL, CMPCT W/ SHEEPSFOOT ROLLER	1	ECY	\$5.30

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	BACKFILL & COMPACTION, DOZER BKFL, ROLLER CMPCT IN 12" LAYERS	1	ECY	\$8.50
	BACKFILL & COMPACTION, DOZER BKFL, CMPCT W/ VIBRATING ROLLER	1	ECY	\$4.90
	BACKFILL & COMPACTION, BY HAND, HEAVY SOIL	1	LCY	\$61.00
93410	DRILLING & BLASTING, HARD ROCK, UPTO 1500 CY, MACHINE DRILL, DEEP HOLE METHOD	1	BCY	\$86.00
	RIP SHALE- MEDIUM HARD, BY 180 H.P REAR RIPPER & LOAD	1	BCY	\$68.00
88040	AT/FP VEHICULAR BARRICADES			
	Barrier Standards			
	SD-STD-02.01 specifies perpendicular barrier impact by a 15,000 lb. (6810 kg) vehicle  "K" indicates the Dept of State certified barrier's maximum vehicle impact speed rating  "L" indicates the test vehicle's distance of penetration upon impact with 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 requirem barriers with a remote control panel include costs for barrier installation, safety loop, traffic arm, & traffic lights. Cos included.			
	CONCRETE PLANTER - 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	
	CONC PLANTER, RECTANGULAR, EXPOSED AGGR FINISH, 96" L x 24" W x 36" H, NO FILL MATERIAL	1	EA	\$976.00
			L/1	
	CONC PLANTER, ROUND, EXPOSED AGGR FINISH, 84" DIA x 36" HIGH, NO FILL MATERIAL	1	EA	
	CONC PLANTER, ROUND, EXPOSED AGGR FINISH, 84" DIA x 36" HIGH, NO FILL MATERIAL  CONC BARRIER, DECORATIVE GEOMETRIC DESIGN, 96" L x 24" W x 36" H, NO FILL MATERIAL	1		\$1,291.00
		1 1 PH	EA	\$1,291.00 \$1,951.00
88040	CONC BARRIER, DECORATIVE GEOMETRIC DESIGN, 96" L x 24" W x 36" H, NO FILL MATERIAL	1 1 PH 1	EA	\$1,291.00 \$1,951.00
88040	CONC BARRIER, DECORATIVE GEOMETRIC DESIGN, 96" L x 24" W x 36" H, NO FILL MATERIAL  GLASS FIBER REINFORCED CONCRETE SECURITY BARRIERS (GFRC), STOPS 4,000 LB VEHICLE AT 40 MI	1 1 PH 1 1	EA EA	\$1,291.00 \$1,951.00 \$2,037.00
88040	CONC BARRIER, DECORATIVE GEOMETRIC DESIGN, 96" L x 24" W x 36" H, NO FILL MATERIAL  GLASS FIBER REINFORCED CONCRETE SECURITY BARRIERS (GFRC), STOPS 4,000 LB VEHICLE AT 40 MI  CONC FILLED GFRC, DECORATIVE IMPALER, 10' SECTION, INCL SITE PREPRATION ON BARE GROUND	1 1 PH 1 1	EA EA	\$1,291.00 \$1,951.00 \$2,037.00 \$3,643.00

APPENDIX A - SUPPORT FACILITIES UNIT COST TABLE (PART - II, Support Facilities).

CAT CODE	<u>ITEM</u>	<u>OTY</u>	<u>UNIT</u>	UNIT COST (\$/UNIT)
	CRASH BARRIERS, STOPS 15000 LB VEHICLE @ 50 MPH, INCL ALL LABOR, MATERIAL & EQUIP (LME) FOR CO	OMPLETE IN	STALLATION	
88040	20' WIDE DROP ARM CRASH BARRIER, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$88,940.00
	24' WIDE DROP ARM CRASH BARRIER, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$118,770.00
	12' WIDE PORTABLE WEDGE CRASH BARRIER, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$149,170.00
	20' WIDE SLIDING ROLLER CRASH BARRIER, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$272,550.00
	20' WIDE SLIDING CANTILEVER CRASH BARRIER, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$272,550.00
	RAISED BOLLARD CRASH BARRIER, INCL ALL LABOR, MATERIAL & EQUIP (LME) FOR COMPLETE INSTALL	LATION		
88040	10' WIDE, RAISED BOLLARD CRASH BARRIER, STANDARD POWER, INCL ALL LME FOR COMPL INSTAL	1	EA	\$53,700.00
	12' WIDE, RAISED BOLLARD CRASH BARRIER, STANDARD POWER, INCL ALL LME FOR COMPL INSTAL	1	EA	\$61,390.00
	10' WIDE, RAISED BOLLARD CRASH BARRIER, SOLAR POWER, INCL ALL LME FOR COMPL INSTAL	1	EA	\$65,410.00
	12' WIDE, RAISED BOLLARD CRASH BARRIER, SOLAR POWER, INCL ALL LME FOR COMPL INSTAL	1	EA	\$72,860.00
	INGROUND TIRE SHREDDER, 15' WIDE, INCL ALL LME FOR COMPL INSTALLATION	1	EA	\$57,270.00

# APPENDIX C (UFC 3-700- 01, Table 4-2), PAX Newsletter 3.2.2, dated 21 May 2021 TRI-SERVICE MILITARY CONSTRUCTION PROGRAM (MCP) INDEX FOR FY 2021-26 PROGRAMS Based on Inflation Guidance Published by OUSD (Comptroller), dated 08 April 2021

FISCAL YEAR (FY)	<u>DATES</u>		INDEX	ESCALATION PERCENTAGE FOR FISCAL YEAR
FY 2021	1-Oct- 2020		3033	FY21 (1.9%)
	1-Jan- 2021		3049	
	1-Apr- 2021		3064	
	1-Jul- 2021		3079	
FY 2022	1-Oct- 2021		3094	FY221 (2.0%)
	1-Jan- 2022		3110	
	1-Apr- 2022		3125	
	1-Jul- 2022		3141	
FY 2023	1-Oct- 2022		3156	FY23 (2.0%)
	1-Jan- 2023		3172	
	1-Apr- 2023		3188	
	1-Jul- 2023		3204	
FY 2024	1-Oct- 2023		3219	FY24 (2.0%)
	1-Jan- 2024		3235	
	1-Apr- 2024		3251	
	1-Jul- 2024		3267	
FY 2025	1-Oct- 2024		3283	FY25 (2.0%)
	1-Jan- 2025		3300	
	1-Apr- 2025		3316	
	1-Jul- 2025		3333	
FY 2026	1-Oct- 2025		3349	FY26 (2.0%)
	1-Jan- 2026		3366	
	1-Apr- 2026		3383	
	1-Jul- 2026		3400	
FY 2027	1-Oct- 2026	-	3416	FY27 (2.0%)
	1-Jan- 2027			
	. 56 2021			

#### NOTES:

- 1. Use 2.0% per fiscal year for projection beyond FY 2026
- 2. Tri Service MCP Index (1,000) = 1 October 1979 ENR Historical Building Cost Index
- 3. The MCP indexes after 1 Oct 2018 were derived using the Price Escalation Indices (Annual Rates in Percentages) for Budget Authority published in the 11 January 2021 Inflation Guidance Fiscal Year (FY) 2022 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 March 2020**
- 5. The MCP index table above should only be used to inflate project cost from 1 October 2020 to mid point of construction. Escalating older cost data should utilize the DoD SPI, as published in the UFC 3-701-01, Table 4-2, to escalate to 1 October 2020. Then use the MCP index to inflate cost from 1 October 2020 to mid point of construction.

#### TABLE I - SIZE ADJUSTMENT FACTORS

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

SIZE	ADJUST	S	ZE	ADJUST		SIZE	<b>ADJUST</b>		SIZE	ADJUST
RATIO	FACTOR	RA7	OI	FACTOR		RATIO	FACTOR	_	RATIO	FACTOR
< 0.05	1.2750	0.9	000	1.0110	<u>.</u>	1.8000	0.9490	_	2.7000	0.9250
0.0500	1.2750	0.9	500	1.0050		1.8500	0.9470	_	2.7500	0.9240
0.1000	1.2690	1.0	000	1.0000	_	1.9000	0.9450	_	2.8000	0.9240
0.1500	1.2320	1.0	500	0.9950	_	1.9500	0.9430	_	2.8500	0.9230
0.2000	1.2020	1.1	000	0.9900	_	2.0000	0.9420		2.9000	0.9220
0.2500	1.1750	1.1	500	0.9860		2.0500	0.9400		2.9500	0.9210
0.3000	1.1520	1.2	000	0.9820		2.1000	0.9390	_	3.0000	0.9210
0.3500	1.1320	1.2	500	0.9780		2.1500	0.9370		3.0500	0.9200
0.4000	1.1140	1.3	000	0.9740		2.2000	0.9360		>3.05	0.9200
0.4500	1.0980	1.3	500	0.9710		2.2500	0.9350			
0.5000	1.0840	1.4	000	0.9680		2.3000	0.9330			
0.5500	1.0720	1.4	500	0.9650		2.3500	0.9320			
0.6000	1.0600	1.5	000	0.9620		2.4000	0.9310			
0.6500	1.0500	1.5	500	0.9600	•	2.4500	0.9300			
0.7000	1.0410	1.6	000	0.9570	•	2.5000	0.9290			
0.7500	1.0330	1.6	500	0.9550		2.5500	0.9280			
0.8000	1.0250	1.7	000	0.9530	-	2.6000	0.9270			
0.8500	1.0180	1.7	500	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 HOUS PROJEC	SING	BARRACKS/ DORMITORIES PROJECT SIZE			
ADJUST FACT		ADJUSTMENT FACTORS			
NUMBER	PROJECT	NUMBER	PROJECT		
OF UNITS in	SIZE	OF ROOMS	SIZE		
the project	FACTOR	in the project	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				

#### CHART C, METRIC/ENGLISH SYSTEMS

#### **QUANTITY FROM**

#### TO OBTAIN

LENGTH	inch	25.400000	millimeter
LENGIH	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
ANLA	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
			nectare
	square millimeter	0.001550	square inch
	square meter	10.763910	square foot
	square meter	1.195990	square yard
	square kilometer	0.386101	square mile
	square meter	0.000247	acre
	hectare	2.471044	acre
VOLUME	cubic inch	16387.060000	cubic millimeter
	cubic foot	0.028316	cubic meter
	cubic yard	0.764555	cubic meter
	gallon (U.S. liquid)	3.785412	liter
	quart (U.S. liquid)	0.946353	liter
	cubic millimeter	0.000061	cubic inch
	cubic meter	35.314662	cubic foot
	cubic meter	1.307951	cubic yard
	liter	0.264172	gallon
	liter	1.056688	quart
MASS	ounce (avoirdupois)	28.349520	gram
	pound (avoirdupois)	0.453592	kilogram
	short ton	907.185000	kilogram
			8
	gram	0.035273	ounce
	kilogram	2.204622	pound
	kilogram	0.001102	short ton
ENERGY -	1.7 (4)	2 (22222	* 1
HEAT &	kilowatthour	3.600000	megajoule
WORK	btu	1.055056	kilojoule
	horsepower hour	2.684520	megajoule
		0.277700	1.:1
	megajoule	0.277780	kilowatthour
	kilojoule	0.947817	btu
	megajoule	0.372506	horsepower hour
POWER	ton (refrigeration)	3.517000	kw
	btu/s	1.055056	kw
	hp (electric)	745.700000	W
	btu/h	0.293071	w
		0.001000	
	kw	0.284333	ton (refrigeration)
	kw	0.947817	btu/s
	W	0.001341	hp (electric)
	W	3.412141	btu/h