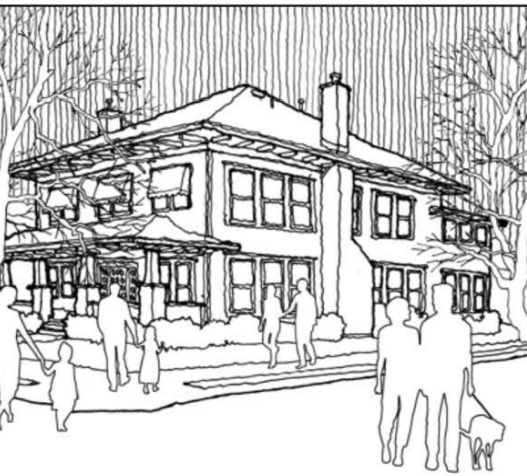
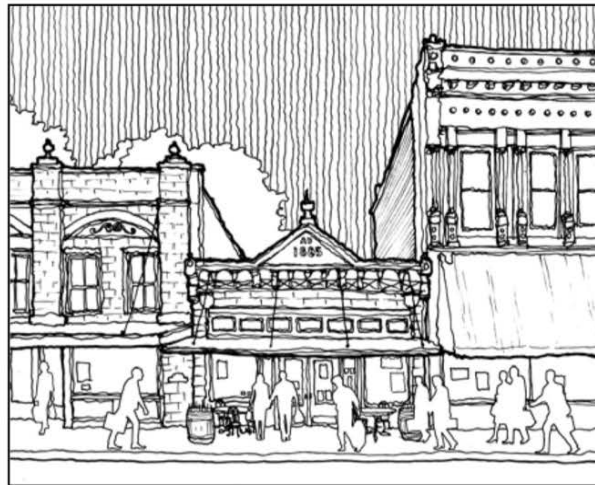
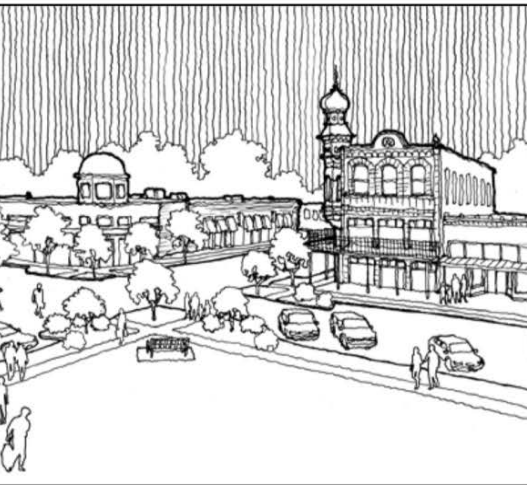


Public Works

D I G E S T

Volume XXVI, No. 1
January/February/March 2014



This Issue: **Master Planning, Housing and Barracks**

Leader Commentaries	3
Master Planning	6
Housing	24
Barracks	29
Sustainability	34
Technology and News	37
Professional Development	40

Real Property Master Plans should reflect appropriate regional planning patterns for streets, public spaces, and buildings, like these images from development near Fort Hood. Complete article located on page 11.



Public Works DIGEST

Volume XXVI, No. 1
JANUARY/FEBRUARY/MARCH 2014



U.S. Army Installation
Management Command
2405 Gun Shed Road
Fort Sam Houston, TX 78234-1223

Public Works Digest is an unofficial publication of the U.S. Army Installation Management Command, under AR 360-1, The Army Public Affairs Program. Method of reproduction: photo-offset; press run: 1,600; estimated readership: 5,000. Editorial views and opinions expressed are not necessarily those of the Department of the Army. Mention of specific vendors does not constitute endorsement by the Department of the Army or any element thereof.

Gregg Chislett
Chief, Public Works Division
Installation Management Command
U.S. Army Installation Management Command
2405 Gun Shed Road
Fort Sam Houston, TX 78234-1223
Attn: Editor, *Public Works Digest*

Kathye Gerrity-Milihrum
Managing Editor,
U.S. Army Corps of Engineers
Headquarters, USACE
441 G Street, NW
Washington, DC 20314-1000
202-761-0022 DSN 763
editor.pwdigest@usace.army.mil



Printed on recycled
paper.

Leader Commentaries

- 3 Fort Carson Manages FSBP through Centralized Approach, *by Hal Alguire*
- 5 Master Planning: An Imperative in These Tough Times..., *by Jerry Zekert*



Master Planning

- 6 Master Planners Desk-side Reference, *by Dwayne Melton*
- 7 IMCOM Master Planning Website, *by Dwayne Melton and Charles Schroeder*
- 8 Before You Pave the Way, You Must Have a Plan, *by Tyrone Williams*
- 9 Using Planning to Proactively Respond to Climate Change Issues, *by Andrea Wohlfeld Kuhn*
- 11 Implementing the Master Plan: The Role of the Area Development Execution Plan, *by Kristina Manning, Rumanda Young, and Tricia Kessler*
- 12 USACE Regional Planning Support Centers: Hubs for Master Planning Technical Support, *by Jerry Zekert*
- 13 National and Federal Planning Training Conferences in Atlanta in April, *by Andrea Wohlfeld Kuhn*
- 14 A Different Way to Think About Installations, *by Paula J. Loomis*
- 15 Leading the Planning Process: The Role of the Garrison Commander, *by LTC Christopher Gerdes and Mark Gillem*
- 17 The Real Property Master Plan, *by Daniel Seastrum*
- 18 Net Zero for Training Through Construction, *by Colonel Adam S. Roth*
- 19 Moving Towards Net Zero: The Role of a Sustainability Component Plan, *by Cyndi Skinner and Mark Gillem*
- 21 Vision Plan Practicum a Success at Fort Wainwright, *by Kate Siftar*
- 22 Real Property Master Plan and the New UFC, *by Katbryn Haught*
- 23 The Evolution of a New Fort Polk: Laying the Foundation for Change, *by Lorna Hanes, Joey Ball and Jill Schreiber*



Housing

- 24 USAG-Hawaii Continues to Expand Family Housing, *by Ann M. Choo Wharton*
- 25 Fort Irwin Achieves 90 Percent Savings in Energy Retrofit Project, *by Hossam Kassab*
- 26 Living Downtown: An Evaluation of Joint Base Lewis-McChord's Town Center Housing, *by Christina Bollo*
- 28 First Sergeants Barracks Program (FSBP) 2020 - What's on the Horizon, *by Stefanie Casey*



Barracks

- 29 Army Corps, Garrison Open New Barracks for Schofield's HHBN, 2nd Brigade Soldiers, *by Dino W. Buchanan, Honolulu District Public Affairs*
- 30 Korea Relocation Program Barracks Construction, *by Jason Chudy*
- 31 EDRC-West Point Readies Deployed Structures Operational Energy Testbed, *by Marie Darling and Lt. Col. Steven D. Hart*
- 33 Crafting a Cadet Barracks Upgrade Program (CBUP) to Fix West Point's Ailing Barracks, *by Matthew Talaber and Jonah Havranek*



Sustainability

- 34 Administration honors Corps professionals with GreenGov Awards, *by Tonya King, Michael Coffey and Candice Walters*
- 36 Fort Benning Considers Feasibility of Capturing Energy from Cooling Tower Exhaust, *by Kirk W. Ticknor*



Technology and News

- 37 Bulletin Offers Guidance to Manage Water in Historic Districts, *by Anne Dain-Owens and Ellen Hartman*
- 38 USACE, Fort Hunter Liggett use Net Zero Planner for Master Planning, *by Jerry Zekert, Andrea Kuhn, and Michael Case*
- 39 Bulletin Encourages Expanded Use of Forestry and Agricultural Outleasings, *by Natalie Myers*



Professional Development

- 40 Fiscal Year 2013 Career Program-18 Awards, *by CP-18 Propensity Office*
- 41 Master Planning Educational Training, *by Andrea Wohlfeld Kuhn*
- 43 What You Need to Know About Becoming a Project Management Professional, *by Colonel Stewart R. Fearon*





Implementing the Master Plan: The Role of the Area Development Execution Plan

by Kristina Manning, Rumanda Young, and Tricia Kessler

Fort Hood is nearing completion of its first new master plan in decades. Hundreds of stakeholders have participated in the planning process over the last two years and they have defined a future for this installation (referred as the Great Place) that will have accessible campuses and walkable small towns with modern, energy-efficient infrastructure. The Vision Plan, Long-Range Component with Area Development Plans (ADPs) for all the installation's districts as well as Network Plans, and the Digest are nearly done. We are now developing the detailed Capital Investment Strategy (CIS) and refining our Installation Design Guide (IDG). This has been a significant effort that is already bearing fruit. Stakeholders are more engaged in the development process, projects are now aligned with an overall vision, and work is well underway on several key aspects of the plan.

To ensure that we base our development program on the master plan, we are now creating detailed Area Development Execution Plans (ADEPs). Since our

ADPs are now in place, we can turn our focus to implementation and execution.

An ADEP is part of a robust CIS that serves as a visual Integrated Project List for Public Works staff to coordinate and execute current and future projects generated by the ADPs, BUILDER, tenant priorities, and SRM needs. The ADEP shows on an actual plan the projects needed to meet the vision.

An ADEP can only be prepared after an ADP has been created for a district on an installation. The first step is to divide the planning district into distinct areas using a simple grid. Each grid square (these ideally cover an area about 1,400 feet square) then has a focused analysis of all the work required to meet the requirements of the ADP that covers that grid. Planners then create a detailed Technical Plan that graphically shows all needed horizontal and vertical projects in the grid square. This can include street and sidewalk upgrades, landscaping, and building repurposing, renovation, and construction. In this way, all relevant projects are shown in a graphic

Acronyms and Abbreviations	
ADEP	Area Development Execution Plan
ADP	Area Development Plan
CAMPS	Comprehensive Army Master Planning System
CAV	Calvary Division
CIS	Capital Investment Strategy
IDG	Installation Design Guide
ISR	Installation Status Report
MILCON	Military Construction
SRM	Sustainment, Restoration and Modernization

format that is easy to understand and easy to identify. Accompanying the Technical Plan is a project spreadsheet that provides the necessary detail for the identified projects. This allows for easy review, synchronization, and approval of short, mid, and long-term work.

At Fort Hood, the first ADEP for the 1st CAV district is nearly completed. Installation planning staff and military and civilian personnel working in the district worked together to prepare the ADEP. By using this collaborative and participatory approach, participants developed ownership in the process.

Since the Army will be moving to BUILDER as a replacement for the Installation Status Report (ISR) to help establish ongoing work plans for its existing building inventory, the ADEP is ideally suited to incorporate relevant projects identified by the BUILDER Sustainment Master Planning System. For example, if BUILDER identifies a need for a roof replacement, that project can be inserted into the ADEP Project Spreadsheet and tracked graphically on the ADEP Technical Plan.

In addition, at Fort Hood planners are integrating ADEP data into the Comprehensive Army Mapping System (CAMPS). This will allow data from the ADEPs and ADPs to be easily viewed along with other facility data, such as ➤



View of Proposed Greenbelt in Phantom Warrior District at Fort Hood



USACE Regional Planning Support Centers: Hubs for Master Planning Technical Support

by Jerry Zekert

Since the founding of the country, The U.S. Army Corps of Engineers have been involved in the planning and development of military installations. From the early development of coastal fortifications to building bases throughout the nineteenth and twentieth century USACE continue this role to plan and develop military installations. As we entered the 21st Century, we are seeing a world changing, as well as a transforming Department of Defense with complex factors that affect the long-term development of our military installations. Our world is getting smaller and the cumulative effect of unsustainable development is affecting the amount of natural resources, available to support day to day activities much less future generations. At the same time the Army and the rest of DOD are faced with rapidly changing military requirements, rapid deployments, and new technologies and doctrine, while

Acronyms and Abbreviations

ADEPS	Area Development Execution Plans
DOD	Department of Defense
UFC	Unified Facilities Criteria
USACE	U.S. Army Corps of Engineers

(continued from previous page)

tenant occupancy, facility type, quality, and size. The inclusion of district planning and phasing information to the CAMPS evaluation criteria will allow for more comprehensive analysis and a comparison of occupant requirements. With an ADEP in place, Fort Hood planners can effectively coordinate and synchronize SRM, MILCON, and tenant funded projects aligned with the master plan vision.



For planners interested in learning more about preparing similar execution plans, the U.S. Army Corps of Engineers

USACE Regional Planning Support Centers		
Master Planning Program	HQ USACE Team Lead	Jerry Zekert 202-761-7525
North Atlantic Division	Planning Support Center, Baltimore	Beth Santos 410-302-5417
	Planning Support Center, Europe	Phil Cohen 011-611-9744-2825
South Atlantic Division	Planning Support Center, Savannah	David Futrell 912-652-5637
	Planning Support Center, Mobile	Joe Hand 251-694-3881
Lakes & Rivers Division	Planning Support Center, Louisville	Mark Real 502-315-6413
Southwestern Division	Planning Support Center, Ft. Worth	Dr. R. Young 817-886-1779
Northwestern Division	Div Master Plan Program Manager	Laura Kemp 503-808-3837
South Pacific Division	Planning Support Ctr, Sacramento	James Oliver 916-557-7469
Pacific Ocean Division	Planning Support Ctr, Team A/FW	Dr. R. Young 817-886-1779
	Planning Support Ctr, Team B/Sac	James Oliver 916-557-7469
Huntsville Center	Planning Support Center	Jimmie Jackson 256-895-8130

facing tough challenges with constrained budgets throughout the government. While this all sounds like tough times, we, as stewards of our Nation's installations, have to ensure our installations military

offers PROSPECT course 326, Master Planning Program Execution. This 4-day course starts on 28 July 2014 and is open all. Please contact Mr. Jerry Zekert, at 202-761-7525 if interested.

POC is Rumanda Young, 817-886-1779, Rumanda.K.Young@usace.army.mil

Kristina Manning, P.E., is the chief of the Real Property Planning Division at the Directorate of Public Works, Fort Hood. Rumanda Young, Ph.D., RLA, AICP, LEED AP, is the chief of the Master Planning Section with Southwestern Division U.S. Army Corps of Engineers. Tricia Kessler AICP is an associate planner with The Urban Collaborative, LLC.  

capabilities are preserved for the needs of the future.

With the issuance of many Congressional directives, Executives Orders, DOD, and Army policies regarding installation master planning, USACE recognizes that master planning technical expertise is a core competency needed to support the evolving military master planning mission that guides the long-term development of DOD installations. This competency can be applied not only to assist our installations in planning but also provide insight to our design and construction community. This community provides the projects required to meet missions today as well as the future missions of tomorrow. In implementing this strategy, the USACE directed in its Campaign Plan, to establish Regional Planning Support Centers that will provide technical planning support in accordance with Army DOD and Federal planning ➤