

## Chapter 1 Introduction

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# Chapter 1

## 1-1

### Purpose Of the Design Guide

a. **PRINCIPAL OBJECTIVES** The principal objectives of this Design Guide are:

(1) To help using service and design agency personnel develop military police facilities which are cost-effective, efficient and beneficial to mission accomplishment;

(2) To provide the type of guidance that will improve preplanning and early design decisions and insure the development of realistic functional requirements in accordance with current Army regulations and DOD Construction criteria.

b. **INTENT** While this guide is the basic criteria document for the physical development of military police facilities, it is not intended to provide all of the information required for successful preparation of individual project designs. Supplementary information must be obtained at the local installation level in order to accurately describe functional requirements that reflect the individual needs of local operations and the locational constraints and opportunities of the specific sites or existing facilities.

c. **PROJECT DEVELOPMENT** This guide provides general project development guidance for using service and Corps of Engineers field office personnel. This guidance will be used in the preparation of Army military police project estimates for inclusion in military construction programs.

d. **PLANNING AND DESIGN** This document provides guidance for identifying the actual functional requirements of a particular project. Planning and design criteria for use in developing a project's individual requirements have also been included to assist using service and design agency personnel in the preparation of specific project designs. Where specifically noted, it is intended that this guidance will govern the planning, design and construction of Army military police facilities.

e. **DESIGN EVALUATION** The planning and design criteria contained in this guide will be used by design agency personnel as a basis for the evaluation of individual project designs. The space organization principles and pre-design concepts in this guide will also assist using service and design agency personnel who prepare physical and functional requirements, evaluate pre-design concepts and review and approve project designs for military police facilities.

f. **UPGRADING EXISTING FACILITIES** A large number of projects will involve the modernization and improvement of existing facilities. Thus, both the designers and users of existing facilities will find this guide helpful in developing the required improvements to existing sites and structures.

## 1-2

### Scope of Design Guidance

a. **APPLICABILITY** This Design Guide is applicable to all new construction projects for Army military police facilities, whether for totally new facilities or for additions to existing or found space. Chapter 5 guidance is particularly applicable to projects involving the modernization and improvement of existing facilities. The example designs contained in Chapter 6 are generally applicable to projects involving the construction of totally new facilities.

b. **PLANNING AND DESIGN CRITERIA** General planning and design criteria and physical area requirements for individual military police activities, which are discussed in Chapters 2, 3 and 4 of this Design Guide, should be used to determine the actual functional requirements of MP facilities. Chapter 5 contains programming, planning and design guidance for modernization and improvement projects.

c. **EXAMPLE DESIGNS** The case studies presented in Chapter 6 illustrate the application of project development procedures and planning and design guidance. These designs are not intended to be definitive. They are intended to represent possible solutions for the following requirements in terms of the installation population served:

Example Designs	Installation Population	Facility Size
(1) Example A	8,000 or Less	18,460
(2) Example B	8,000 to 20,000	25,720
(3) Example C	20,000 or More	35,025

## 1-3

### Use of Reference Material

a. **GENERAL** Reference must be made to project development procedures and planning and design guidance contained herein as well as contained in related engineering and construction regulations and reference material. Individual projects may require the use of MP reference documents other than those listed below. It is essential, therefore, that individual military police organizations indicate the specific reference material of importance to project accomplishment. This material will usually include: organization regulations, mission function manuals, operating codes or standard operating procedures, as well as any specific operational requirements that need to be considered either in the planning or the design of special military police facilities.

**b. PRIMARY REFERENCE MATERIAL** Reference documents and regulations that can be used to identify specific functional, personnel or equipment requirements, special staffing procedures, or special organizational relationships should be identified. Reference documents should be categorized according to the information requirements of the project development process.

**(1) Functional Programming** The following documents are important in understanding the current methods used to develop programming requirements for military police facilities. Where other regulations refer to specific functional, personnel or equipment requirements, special staffing procedures, or special organizational relationships, they should be included to describe functional criteria which must govern the programming process. Specific documents are listed separately from those documents of general interest only.

**Specific:**

FM 19 Series      Military Police Field Manuals  
AR 10-10          Installation Mission - Function

**General:**

AR 570-2          Organization and Equipment  
                         Authorization Table  
AR 570-3          Manpower and Equipment  
                         Utilization and Requirements  
AR 570-4          Manpower Surveys (Specific  
                         Schedule X)  
AR 570-500        Staffing Guide of U.S. Army  
                         Organization (mission-peculiar/  
                         related activity guide)

**(2) Project Development** The following regulations pertain to the general requirements for project development. They contain a series of specific considerations relating to architectural, structural, mechanical, site and project performance criteria.

DOD 4270.1-M    Department of Defense  
                         Construction Criteria Manual  
AR 415-10        General Provisions for Military  
                         Construction  
AR 415-15        MCA Program Development  
AR 415-20        Project Development and Design  
                         Approval  
AR 415-35        Minor Construction  
TM 5-800-1        Construction Criteria for Army  
                         Facilities  
TM 5-800-3        Project Development Brochure

**(3) Facilities Planning and Design.** This Design Guide for military police facilities is the governing supplemental reference document containing specific facility planning and design criteria. In making reference to other criteria for military police facilities planning, available documents provide only

general guidance. DOD Construction Criteria Manual 4270.1 -M contains mandatory construction criteria as well as space allocation and design criteria which may aid in identifying general functional requirements Current Space Utilization Criteria are contained in AR 405-70. Where existing facilities are being planned for, use facility planning data developed in accordance with AR 405-45, the regulation governing the inventory of military real property. In all cases review carefully ER 1110-1-102 and EM 1110-1-103 which establish standards and criteria for designing for the physically handicapped.

**(4) Site Development** Each of the following documents contains general reference material applicable to site development for military police facilities.

TM 5-803-3        Site Planning-General Technical  
                         Manual  
TM 5-822-1        Traffic Study Requirements  
TM 5-830-1        Planting Design  
TM 5-830-2        Planting Turf  
TM 5-830-3        Dust Control  
TM 5-830-4        Planting and Maintenance of Trees

**(5) Design Execution** The following Army and Engineer Regulations are important in understanding design execution procedures which must be considered in the development of facilities designated for inclusion in MCA programs.

AR 415-20        Project Development and Design  
                         Approval  
ER 1110-345-100    Design Policy for Military  
                         Construction  
ER 1110-345-700    Design Analysis  
ER 1110-345-720    Specifications

**(6) Completion Records** The following regulation is important in understanding the kind of records required to be transferred to the using service upon completion of a project.

AR 415-10        General Provisions for Military  
                         Construction

## 1-4

### Project Development Emphasis

**a. DESIGN QUALITY** Special emphasis shall be placed on the quality of physical design since it vitally affects the longevity as well as the operational efficiency and functional effectiveness of military police facilities. In

addition to considerations of life cycle economy and utility, the overall planning and design of military police facilities must exemplify a significant architectural character and reflect a high level of aesthetic concern in the development of both building and site features.

**b. PLANNING AND DESIGN SERVICES** Selection of consultants to aid in the planning and design of military police facilities should be based on:

- (1) Continuing experience in design of complex operational facilities with similar functional and organizational requirements.
- (2) Demonstrated imaginative approach to physical programming, planning and design.
- (3) Experience in the development of modern, flexible and effective facilities.

**c. INTERIOR DESIGN SCHEME** An interior design scheme will be developed in conjunction with the overall plan of physical development and made compatible with basic planning and design concepts for all new facilities and for major alterations to existing facilities. Specific requirements for interior design will depend on the scope of individual projects and on the particular needs of the using service or its subordinate activity. The planning and design of interior environments and the specification of furnishings will be developed by professional consultants.

**d. MODERNIZATION AND IMPROVEMENT** In cases where modernization and improvement projects are required, special emphasis shall be placed on the identification and development of a step plan for project implementation. In most cases, the sequence of project accomplishment should allow for an orderly transition of military police activities without undue loss of functional effectiveness and operating efficiency. As a supplement to project completion records required by AR 415-10, instructions for the utilization of modernized or improved facilities and/or equipment should be prepared to allow the using service to take maximum advantage of specially designed spaces.

**e. USER INFORMATION** The provision of adequate user information is essential to the accomplishment of overall interior and exterior design requirements. User information will be included in a user's information handbook which will be assembled to help provide instructions on maintaining and operating primary and support facilities to maximum advantage. The book should cover major intentions for the utilization of interior spaces and built-in design features as well as related information concerning environmental controls and the operation and maintenance of HVAC, utility and service facilities.

## 1-5

### Project Development Responsibilities

**a. USING SERVICE** The using service for each particular project is defined in AR 415-10, General Provisions for Military Construction: its responsibilities are outlined in AR 415-20, Project Development and Design Approval. The using service, assisted when necessary by local Facilities Engineer personnel, must:

- (1) Establish actual functional requirements and space needs for specific projects in accordance with the project development procedures, planning guidance and design criteria provided in this guide.
- (2) Justify functional requirements falling beyond the scope of his guide.
- (3) Prepare and submit project requirements in the format (Project Development Brochure) required by AR 415-20.
- (4) Obtain installation action to gain site approval if the project is not sited in accordance with DA-approved master plan.
- (5) Prepare and submit DDForm 1391 and supporting data in accordance with AR 415-15, MCA Program Development.
- (6) Review and approve concept design drawings to certify compliance with functional requirements.

**b. DESIGN AGENCY** The Corps of Engineers field office responsible for design must:

- (1) Insure that the functional requirements of the using service meet the criteria contained herein.
- (2) Insure that the functional requirements of the using service are incorporated in the design.
- (3) Obtain justification for all deviations from this guide requested by either the using service (local provost marshal) or the operating agency (installation commander) and document these justifications in project evaluation and design analyses.
- (4) Insure that the quality standards for overall design are adhered to in accordance with military construction policy and the planning and design principles stated herein.
- (5) Insure that requirements for providing user information involving efficient and effective utilization of facilities and equipment, and long term operating procedures involving the care and maintenance of essential building and site elements are met at the completion of the project, and the necessary guidance and specifications provided to the using installation together with the completion records required by AR 415-10.