

PRIMER SERIES

August 1996

Revised June 97



Outpatient Pharmacy
VA DESIGN GUIDE

Veterans Health Administration Washington, DC 20420

First Draft

VA DESIGN PRIMER OUTPATIENT PHARMACY

FIRST DRAFT

DEPARTMENT OF VETERANS AFFAIRS
VETERANS HEALTH ADMINISTRATION
OFFICE OF FACILITIES MANAGEMENT

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Foreword

The material contained in the Outpatient Pharmacy Design Primer is the culmination of a partnering effort by the Department of Veterans Affairs Ambulatory Care Service, the Department of Veterans Affairs Veterans Health Administration, and the Facilities Quality Office. The goal of the Design Primer is to simplify the design process and to ensure the quality of VA facilities while controlling construction and operating costs.

This document is intended to be used as a guide and to supplement current design guides, technical manuals and other VA criteria in planning an Outpatient Pharmacy. The Design Primer is not to be used as a standard design and use of the Design Primer does not preclude the need for a functional and physical design program for each specific project. It is the project Architects and Engineers responsibility to develop a complete and accurate project design that best meets the users needs and applicable code requirements.

Lloyd H. Siegel, FAIA
Director, Facilities Quality Office








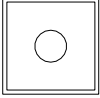

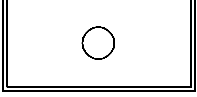
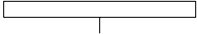

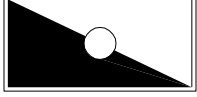



Legend of Symbols

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System	Description of Symbol	Symbol
Power Receptacles	DUPLEX RECEPTACLE, NEMA 5-20R - 20 AMP - MOUNTED 18" AFF UNLESS OTHERWISE NOTED	
	DUPLEX RECEPTACLE, NEMA 5-20R - 20 AMP - MOUNTED ABOVE COUNTER TOP	
	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, NEMA 5-20R - 20 AMP - MOUNTED 18" AFF UNLESS OTHERWISE NOTED	
	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, NEMA 5-20R - 20 AMP - MOUNTED ABOVE COUNTER TOP	
	WEATHERPROOF DUPLEX RECEPTACLE WITH GFI, NEMA 5-20R - 20 AMP - MOUNTED 18" AFF UNLESS OTHERWISE NOTED	
	QUADRAPLEX OUTLET, NEMA 5-20R - 20 AMP - MOUNTED 18" AFF OR QUADRAPLEX OUTLET, NEMA 5-20R - 20 AMP - PEDESTAL-MOUNTED	
	QUADRAPLEX OUTLET, NEMA 5-20R - 20 AMP - MOUNTED ABOVE COUNTER TOP	
	QUADRADUPLEX OUTLET WITH GROUND FAULT INTERRUPTER, NEMA 5-20R - 20 AMP - MOUNTED 18" AFF UNLESS OTHERWISE NOTED	
	QUADRADUPLEX OUTLET WITH GROUND FAULT INTERRUPTER, NEMA 5-20R - 20 AMP - MOUNTED ABOVE COUNTER TOP	
	DUPLEX RECEPTACLE, NEMA 5-20R - 20 AMP - EMERGENCY POWER - MOUNTED 18" AFF UNLESS OTHERWISE NOTED	
	QUADRAPLEX RECEPTACLE, NEMA 5-20R - 20 AMP - EMERGENCY POWER	
	SPECIAL RECEPTACLE - TYPE AS NOTED	
	TELEVISION OUTLET - MOUNTED 18" AFF UNLESS OTHERWISE NOTED	
	ELECTRICAL STRIP MOLD - NEMA 5-20R RECEPTACLES AT 2"-0" INTERVALS	
BATTERY POWERED CLOCK		
CIRCUIT BREAKER		

















Legend of Symbols (cont.)

First Draft 8-14-96
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System	Description of Symbol	Symbol
Switches	SINGLE POLE SWITCH	
	SINGLE POLE SWITCH - SUFFIX OF "a", "b", OR "c" INDICATES SEPARATE CONTROL OF FIXTURE(S) WITH SAME DESIGNATION	
	DIMMER SWITCH	
	THREE-WAY SWITCH	
	DOOR SWITCH	
	FUSED OR UNFUSED DISCONNECT SWITCH	
	EMERGENCY POWER OFF (EPO) PUSH BUTTON	
Lighting	2' x 2' FLUORESCENT FIXTURE	
	1' x 4' FLUORESCENT FIXTURE	
	2' x 4' FLUORESCENT FIXTURE	
	WALL-MOUNTED FLUORESCENT FIXTURE	
	2' x 2' FLUORESCENT FIXTURE - EMERGENCY POWER	
	2' x 4' FLUORESCENT FIXTURE - EMERGENCY POWER	
	WALL-MOUNTED FLUORESCENT FIXTURE - EMERGENCY POWER	
	WALL MOUNTED LIGHT FIXTURE - TYPE AS NOTED	
	LIGHT FIXTURE - TYPE AS NOTED	

Legend of Symbols (cont.)

First Draft 8-14-96
Revised June 97

System	Description of Symbol	Symbol
Communi- cations	TELEPHONE OUTLET - MOUNTED 18" AFF UNLESS OTHERWISE NOTED	
	WALL-MOUNTED TELEPHONE OUTLET - MOUNTED 48" AFF UNLESS OTHERWISE NOTED	
	COMPUTER TERMINAL OUTLET - VERIFY EXACT NEEDS - PROVIDE SIGNAL OUTLET AS REQ'D	
	SPEAKER - CEILING-MOUNTED	
	INTERCOM OUTLET	
	NURSE CALL DOME LIGHT - CEILING-MOUNTED	
	NURSE CALL DOME LIGHT - WALL-MOUNTED	
	NURSE CALL DUTY STATION	
	EMERGENCY NURSE CALL STATION	
	NURSE CALL STAFF STATION	
	VOLUME CONTROL - WALL MOUNTED	
	Sp. Outlets	JUNCTION BOX - PURPOSE AND LOCATION AS NOTED
Mechanical	SUPPLY AIR DIFFUSER	
	RETURN OR EXHAUST AIR REGISTER OR GRILLE	
	ROOM THERMOSTAT	
Plumbing	COMBINATION FAUCET HOSE BIBB	
	MEDICAL GAS OUTLET	

Section 1

Narrative

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Narrative

OVERVIEW:

The provision of health care to veterans has changed dramatically in recent times. When initially developed, the care for veterans was episodic and inpatient oriented. Changes have resulted in a shift of care to the outpatient arena with the emphasis on continuity of care. To facilitate these changes, the Department of Veterans Affairs has developed several types of clinics which are associated with the VA Medical Centers, but are usually remotely located from the centers.

Today we must expand the Veterans Health Administration's continuum of clinical service settings so that patient care can be provided in the most cost-effective setting that is clinically appropriate. There is also a need to tailor healthcare solutions to local circumstances in the most cost effective settings. VA Pharmacies tend to be very busy and precise in their operations and require maximum use of allocated space to allow for efficient functioning and the expected high level of service to veterans and their families

We must increase VA's outpatient capacity to accommodate the workload shifted from inpatient to an outpatient setting and to obviate the need for inpatient care as much as possible. Healthcare solutions will be shifted to local circumstances.

Space Planning

Space requirements for outpatient pharmacies in VA clinics are based on leased space. There is a need to develop strategic partnerships with other government agencies and with the private sector. The VA should seek opportunities for sharing activities with the private sector when doing so will be cost effective and improve service to VA patients. This will mean an increase in design-build construction projects. The Facilities Quality Office - Standards Service (187C) of Veterans Affairs Central Office has developed several Design Guides which will help answer many of the questions that arise when planning various departments during the transition of VA from being an inpatient system to one that is rooted in outpatient care. Pharmacy and Satellite Outpatient Clinic are two of several guides that can be of use to architects, planners, directors, staff and other interested parties.

Accessibility:

Uniform Federal Accessibility Standards (UFAS) must apply to all new clinics.

Cost:

The outpatient pharmacies will be located in satellite structures which will be simpler structures than hospitals, and therefore have substantially lower initial first cost. The Pharmacy should be located near the main entrance for easy access. It should not be near high volume queuing areas such as Laboratories and Radiology.

Interior Design:

Interior design includes space planning, lighting, noise control, privacy issues and safety. Wayfinding systems include signage, furnishings, and finish selections of color and texture, The color scheme should be appropriate to the patient, pharmacists, physicians, other staff and the community. The design must relate and help define the term "high-quality care". The design, therefore, must balance technological needs and human needs. We must tailor healthcare solutions to local circumstances expressing the local regional elements to the design, materials, colors, textures and patterns, as this is a good start towards patient and staff comfort and satisfaction with the environment.

Pharmacy:

Pharmacy Service in clinics will reflect the changes in VA Health Care to primary care. One aspect of this is the developing of a benchmarking program to share best practices system wide so as to improve overall performance and comparison to non-VA benchmarks. Emphasis will be placed on the provision of medical care as part of an interdisciplinary team. Pharmacists on the team will stress provision pharmaceutical care including drug therapy monitoring and patient education. Provision of prescriptions will be supported through electronic communications with a primary medical facility and establishment of contract relationships (PPO, Fee for Service) with community pharmacies.

Prescriptions generated by the various clinics will be provided in a number of ways. Each clinic will be supported by a main medical facility or a Consolidated Mail Outpatient Pharmacy (CMOP). The small (basic) to medium size clinic will provide a consultation room for pharmacy and a minimum storage area for initial supplies of pharmaceuticals. After providing patient consultation on new prescriptions, the pharmacist will enter prescription data into a terminal for transmission to the main medical facility or CMOP. The pharmacist may provide an initial supply of medication to the patient or direct the patient to a contracted pharmacy for medication required immediately. Refills will be handled by mail from the main medical facility.

Larger clinics will have a free-standing pharmacy. This pharmacy can provide a greater number of services but is designed to be smaller than the pharmacies at Medical Centers. In addition to the required patient consultation on new prescriptions, the large pharmacy will provide the initial supply of medication. Refill requests will be handled by the clinic but may be filled by remote CMOPs. The size of the pharmacies is dependent on the establishment of electronic communication with all VA medical facilities. VA pharmacies will have the ability to share prescription data of patients treated at medical facilities throughout the VA health care system. At present many pharmacies are conducting regular surveys of patients and customers about their treatment in order to determine where improvement is needed. VA 's goal is to deliver more with less stress, in a shorter time frame and at more competitive costs.

Security:

There are currently two approaches to dispensing area security in the pharmacy. One direction is to include the dispensing area within the security zone of the pharmacy. This would include providing full height concrete masonry walls, bullet proof glass at the dispensing windows, etc. The other approach is to create the secure area behind the dispensing area in order to have a more open, commercial pharmacy feel. The specific approach is at the discretion of the Medical Center.

Further information on Pharmacy design can be obtained from the Pharmacy Design Guide as prepared by the VA Central Office Standards Service (187C).

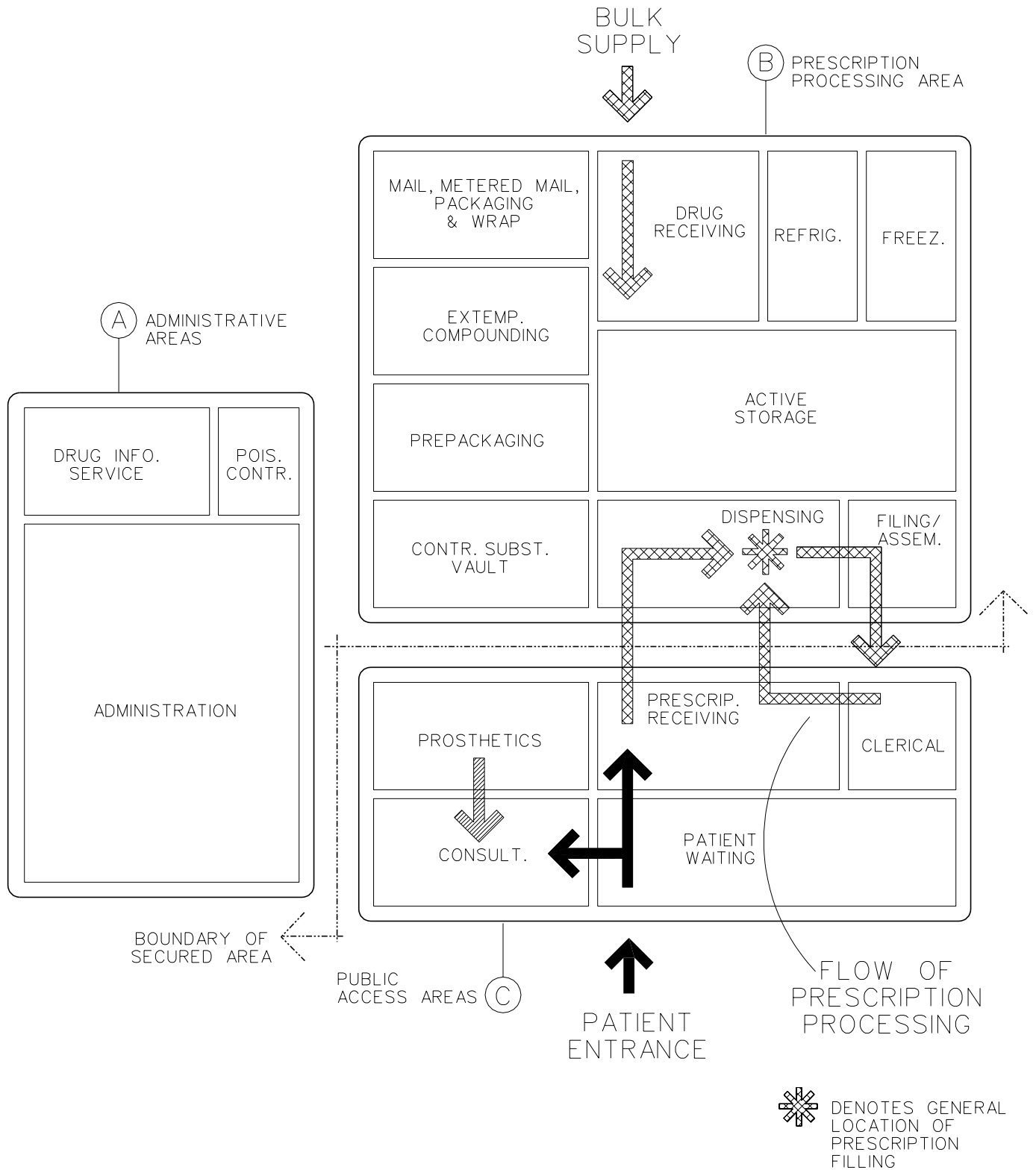
Section 2

Functional Diagram

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Functional Diagram Outpatient Pharmacy



Section 3

**Design Guide Plates
and Data Sheet:
Outpatient Pharmacy**

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Equipment Guide List 3-1

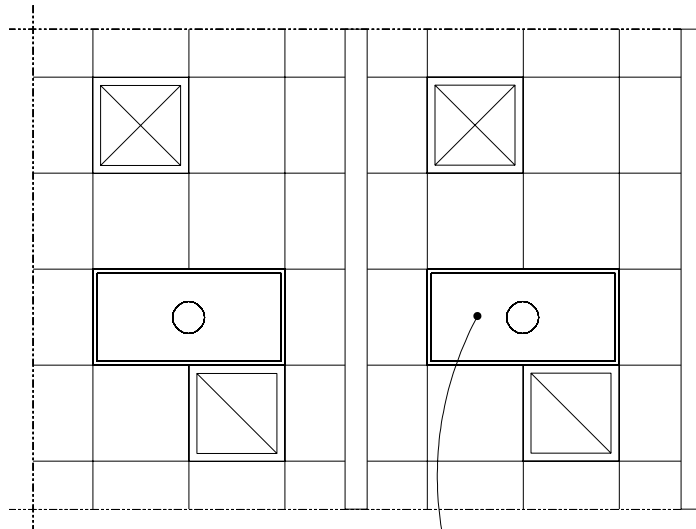
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Reflected Ceiling Plan Prescription Receiving

First Draft 8-14-96
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SEE: DESIGN STDS.
LIGHTING-NOTE 2. (TYP.)

METERS

2 1



FEET

0 1 2 4



Design Standards

Prescription Receiving

ARCHITECTURAL

Ceiling:	Acoustic lay-in ceiling tile
Ceiling Ht:	2740 mm (9'-0")
Wall Finish:	Fabric (Tackboard Wall Surface)
Wainscot:	--
Base:	Resilient base
Floor Finish:	Carpet
Slab Depr:	--
Notes:	

SPECIAL EQUIPMENT

None

LIGHTING

General:	1.7 w/sf 538 lx (50 FC)
Special:	--
Notes:	<ol style="list-style-type: none"> 1. Single switch per station controls station lighting. As an alternate, lighting may be controlled by area with switch(es) located at room entrance. 2. 600mm x 1200mm (2' x 4') recessed fluorescent light fixture, parabolic louver, W/3-F32T8 lamps, 3500°K, CRI=75 (minimum)

POWER

General:	1200W (receptacles)
Emergency:	--
Notes:	

COMMUNICATION

ADP:	Yes
Radio:	--
Telephone:	Yes
Intercom:	--
Pub. Addr:	--
Notes:	1. Nurse Call/Code One/EMS recorder.

HEATING, VENTILATING AND AIR CONDITIONING

Dry Bulb Temp Cooling:	22°C (72°F)
Dry Bulb Temp Heating:	22°C (72°F)
Minimum % Outside Air:	15
100% Exhaust Air:	--
Noise Criteria:	NC-35
Steam:	--
Relative Humidity/Cooling:	50%
Relative Humidity/Heating:	30%
Minimum Air Changes/Hr.:	4
Room Pressure:	0
AC Load Lighting:	18 w/sm (1.7 w/sf)
AC Load-Equipment:	46 w/sm (4.3w/sf)
Number of People:	3
Special Exhaust:	--
Notes:	

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

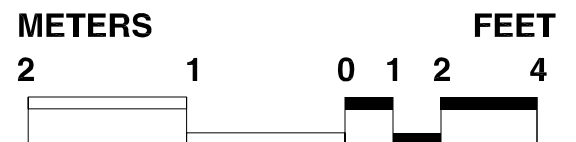
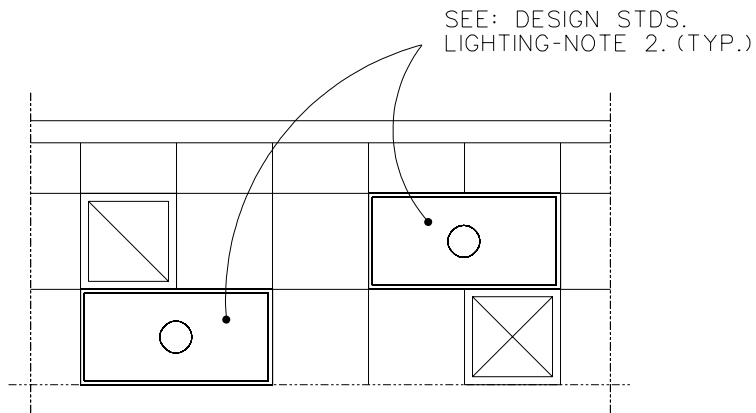
Equipment Guide List

Prescription Receiving

SYMBOL	QTY	AI	DESCRIPTION
AR		CF	CABINET, UNDER COUNTER, 3 DRAWER, 395mm W x 55mm D x 760mm H (15"W X 22"D X 30"H)
AR		CF	COUNTER TOP, HIGH PRESSURE PLASTIC LAMINATE DECORATIVE
AR		VV	CHAIR, ROTARY, WITH ARMS
AR		VV	CHAIR, STRAIGHT, WITH ARMS
AR		VV	COMPUTER, PRINTER
AR		VV	PC, COMPUTER SYSTEM, WITH KEYBOARD
1		CC	RECEPTACLE, ELECTRICAL, QUADAPLEX FOR COMPUTER EQUIPMENT ITEMS (PG-18-1, MCS 16140, H18-3, CS 866-1)
AR		CC	RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLTS, 20 AMPS (PG-18-1, MCS 16140: H-18-3, CS 801-3)

Reflected Ceiling Plan Filing and Assembly

First Draft 8-14-96
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Design Standards

Filing and Assembly

ARCHITECTURAL

Ceiling:	Acoustic lay-in ceiling Tile
Ceiling Ht:	2740 mm (9'-0")
Wall Finish:	Painted Gypsum Wallboard
Wainscot:	--
Base:	Resilient base
Floor Finish:	Carpet
Slab Depr:	--
Notes:	--

SPECIAL EQUIPMENT

None

LIGHTING

General:	4 w/sf 1076 lx (100 FC)
Special:	--
Notes:	<ol style="list-style-type: none"> 1. Lighting controlled by area with switch(es) at room entrance. 2. 600mm x 1200mm (2' x 4') recessed fluorescent light fixture, parabolic louver lens, w/3-F32T8 lamps, 3500°k, CRI=75 (minimum) 3. Coordinate height of rotary file with lighting layout.

POWER

General:	200 W (receptacles)
Emergency:	--
Notes:	1. Junction box for 120V power connection to electric rotary file

COMMUNICATION

ADP:	--
Radio:	--
Telephone:	Yes
Intercom:	--
Pub. Addr:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Dry Bulb Temp Cooling:	22°C (72°F)
Dry Bulb Temp Heating:	22°C (72°F)
Minimum % Outside Air:	15
100% Exhaust Air:	--
Noise Criteria:	NC-35
Steam:	--
Relative Humidity/Cooling:	50%
Relative Humidity/Heating:	30%
Minimum Air Changes/Hr.:	4
Room Pressure:	0
AC Load Lighting:	43 w/sm (4 w/sf)
AC Load-Equipment:	32 w/sm (3 w/sf)
Number of People:	2
Special Exhaust:	--
Notes:	

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	

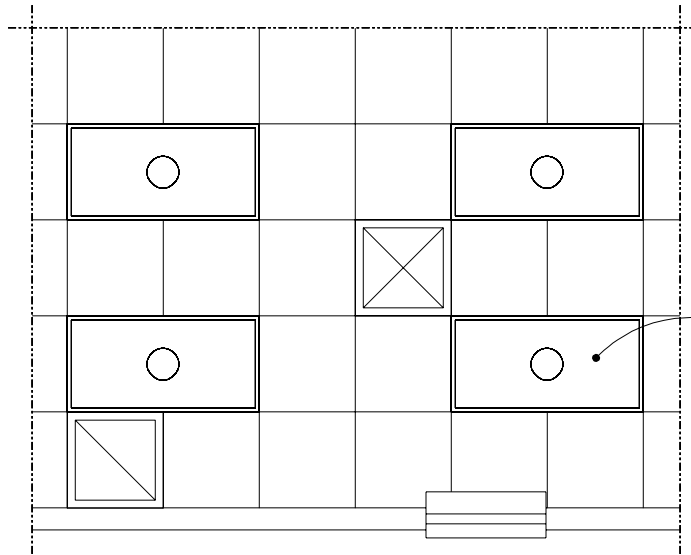
Equipment Guide List

Filing and Assembly

SYMBOL	QTY	AI	DESCRIPTION
AR	CF		CABINET, UNDER COUNTER, 3 DRAWER, 395mm W x 555mm D x 760mm H) 15"W X 22"D X 30"H
AR	CF		COUNTER TOP, HIGH PRESSURE PLASTIC LAMINATE DECORATIVE
AR	VV		CHAIR, ROTARY, WITH ARMS
AR	VV		CLOCK, BATTERY OPERATED
AR	VV		FILE, ROTARY, MECHANICAL POWER, ELECTRIC, 120 VOLTS, 20 AMPS (See 5-2 Lighting Note # 3)
AR	CC		RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLTS, 20 AMPS (PG-18-1, MCS 16140: H-18-3, CS 801-3)

Reflected Ceiling Plan Dispensing

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SEE: DESIGN STDS.
LIGHTING-NOTE 2. (TYP.)

METERS

2 1



FEET

0 1 2 4



Design Standards

Dispensing

ARCHITECTURAL

Ceiling:	Acoustic lay-in Ceiling Tile
Ceiling Ht:	2740 mm (9'-0")
Wall Finish:	Painted Gypsum Wallboard on reinforced masonry sub-wall.
Wainscot:	--
Base:	Resilient base
Floor Finish:	Carpet
Slab Depr:	--
Notes:	1. Refer to VA Construction Standard CD-49 for security criteria

SPECIAL EQUIPMENT

None

LIGHTING

General:	3.5 w/sf 1076 lx (100 FC)
Special:	--
Notes:	1. Lighting controlled by area with switch(es) located at room entrance. 2. 600 x 1200 mm (2'x4') recessed fluorescent light fixture, parabolic louver lens, W/30K-F32T8 lamps, 3500°K, CRI=75 (Minimum)

POWER

General:	600W (receptacles)
Emergency:	--
Notes:	1. Junction box for 120V power connection to electronic tablet counting machine. 2. Junction box(es) for 120V power and signal connections to patient notification monitor.

COMMUNICATION

ADP:	Yes
Radio:	--
Telephone:	Yes
Intercom:	--
Pub. Addr	--
Notes:	1. Conduit and junction boxes required for patient notification monitor system.

HEATING, VENTILATING AND AIR CONDITIONING

Dry Bulb Temp Cooling:	22°C (72°F)
Dry Bulb Temp Heating:	22°C (72°F)
Minimum % Outside Air:	15
100% Exhaust Air:	--
Noise Criteria:	NC-35
Steam:	--
Relative Humidity/Cooling:	50%
Relative Humidity/Heating:	30%
Minimum Air Changes/Hr.:	4
Room Pressure:	0
AC Load Lighting:	38 w/sm (3.5 w/sf)
AC Load-Equipment:	54 w/sm (5 w/sf)
Number of People:	3
Special Exhaust:	--
Notes:	

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

Equipment Guide List

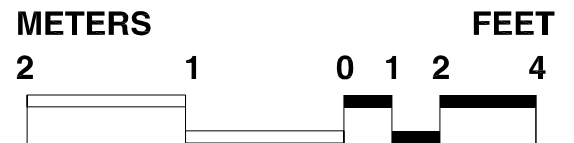
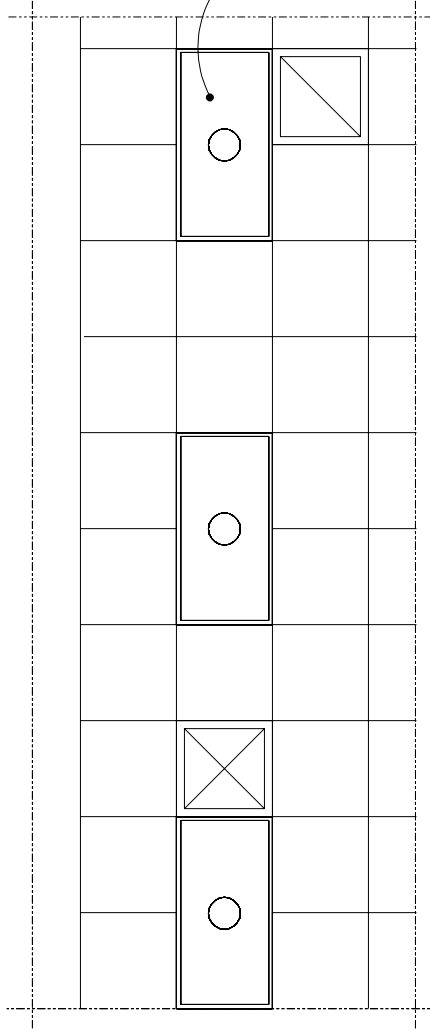
Dispensing

SYMBOL	QTY	AI	DESCRIPTION
AR		CC	SERVICE WINDOW, BULLET RESISTIVE, ONE WINDOW AT WHEELCHAIR HEIGHT AND ONE CONVENTIONAL HEIGHT WITH PACKAGE TRANSFER BOX (PG-18-1, MCS 11022; PG-18-4, SD 67B)
AR		CF	BELT, CONVEYOR, 1 TO 5 BELTS AS REQUIRED (WHEN APPROVED BY VHA)
AR		CF	MODULAR CASEWORK, W/ OVERHEAD CABINETS AND WALL HANGER STRIP
		CF	NOTE: DISPENSING SYSTEMS SHALL BE AS DIRECTED BY VHA
AR		VV	CHAIR, ROTARY, WITH ARMS
AR		VV	CLOCK, BATTERY OPERATED
AR		VV	COMPUTER, PRINTER
AR		VV	CRT, COMPUTER SYSTEM, WITH KEYBOARD
AR		VV	MACHINE, COUNTING TABLET, ELECTRONIC, 120 VOLTS, 20 AMPS, 600mm W x 600mm D (24"W X 24"D)
AR		VV	MONITORS, HIGH RESOLUTION, PATIENT NOTIFICATION SYSTEM, BLACK AND WHITE, 685mm (27")
1		CC	RECEPTACLE, ELECTRICAL, QUADAPLEX FOR COMPUTER EQUIPMENT ITEMS (PG-18-1, MCS 16140, H18-3, CS 866-1)
AR		CC	RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLTS, 20 AMPS (PG-18-1, MCS 16140: H-18-3, CS 801-3)

Reflected Ceiling Plan Prepackaging & Extemporaneous Compounding

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SEE: DESIGN STDS.
LIGHTING-NOTE 2. (TYP.)



Design Standards

Prepacking & Extemporaneous Compounding

ARCHITECTURAL

Ceiling:	Acoustic Lay-In Ceiling Tile
Ceiling Ht:	2740 mm (9'-0")
Wall Finish:	Painted Gypsum Wallboard
Wainscot:	--
Base:	Resilient Base
Floor Finish:	Vinyl Composition Tile or Carpet
Slab Depr:	--
Notes:	

SPECIAL EQUIPMENT

None

LIGHTING

General:	2.9 w/sf 1076 lx(100 FC)
Special:	--
Notes:	<ol style="list-style-type: none"> 1. Lighting control by area with switch(es) at room entrance. 2. 600mm x 1200mm (2' x 4') recessed fluorescent light fixture, parabolic louver lens, W/4-F32T8 lamps, 3500°K, CRI=75 (minimum)

POWER

General:	1000W (receptacles on electrical strip mold on modular casework).
Emergency:	--
Notes:	<ol style="list-style-type: none"> 1. Junction box for 120V power connection to electrical strip mold on modular casework. 2. Junction box for 120V power connection to tablet and capsule counting machine.

COMMUNICATION

ADP:	Yes
Radio:	--
Telephone:	Yes
Intercom:	--
Pub. Addr:	--
Notes:	<ol style="list-style-type: none"> 1. Junction box for communications cabling routed via modular case-work utility access lab module to outlets on casework.

HEATING, VENTILATING AND AIR CONDITIONING

Dry Bulb Temp Cooling:	22°C (72°F)
Dry Bulb Temp Heating:	22°C (72°F)
Minimum % Outside Air:	15
100% Exhaust Air:	--
Noise Criteria:	NC-35
Steam:	--
Relative Humidity/Cooling:	50%
Relative Humidity/Heating:	30%
Minimum Air Changes/Hr.:	4
Room Pressure:	0
AC Load Lighting:	31 w/sm (2.9 w/sf)
AC Load-Equipment:	43 w/sm (4 w/sf)
Number of People:	3
Special Exhaust:	--
Notes:	

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	<ol style="list-style-type: none"> 1. Sanitary drain and vent need to be chemical resistant type.

Equipment Guide List

Prepacking & Extemporaneous Compounding

SYMBOL	QTY	AI	DESCRIPTION
AR		CF	MODULAR CASEWORK , W/ OVERHEAD BINS, UTILITY ACCESS MODULE AND WALL HANGER STRIP
AR		CF	SINK, CORROSION RESISTING STEEL, 555mm x 405mm x 205mm (22" X 16" X 8")
AR		CF	PEGBOARD, 405mm W x 600mm H (16"W X 24"H)
AR		VV	CABINET, FILING, UNDER COUNTER, 380mm W x 635mm D (15"W X 25"D)
AR		VV	CHAIR, ROTARY, WITH ARMS
AR		VV	CLOCK, BATTERY OPERATED
AR		VV	MACHINE, COUNTING, TABLET AND CAPSULE, 910mm W x 610mm D (36"W X 24"D)
AR		VV	COMPUTER, PRINTER
AR		VV	PC, COMPUTER SYSTEM, WITH KEYBOARD
1		CC	RECEPTACLE, ELECTRICAL, QUADAPLEX FOR COMPUTER EQUIPMENT ITEMS (PG-18-1, MCS 16140, H18-3, CS 866-1)
AR		CC	RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLTS, 20 AMPS (PG-18-1, MCS 16140: H-18-3, CS 801-3)

Section 4

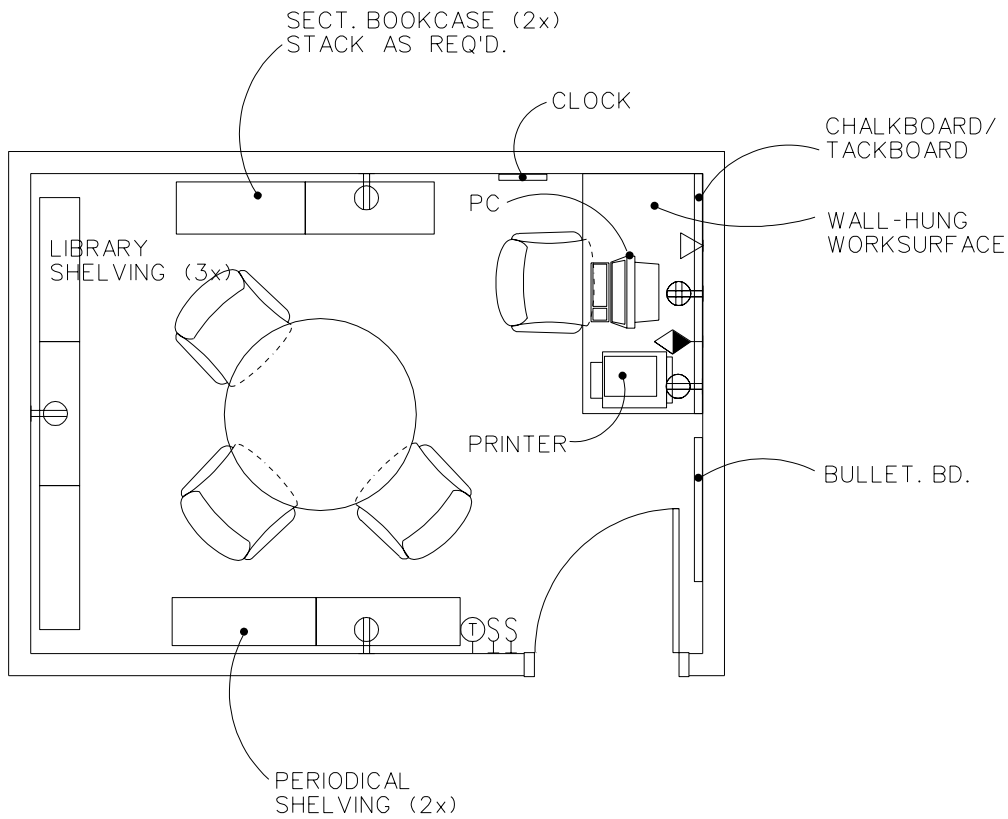
**Design Guide Plates
and Data Sheets:
Pharmacy Specialized
Program**

Guide Plate Series	Plate Number
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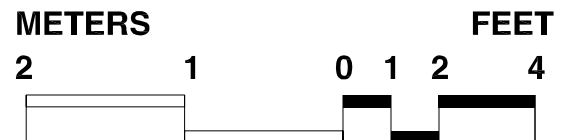
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Equipment & Utility Plan Drug Information Service

First Draft 8-14-96
Revised June 97

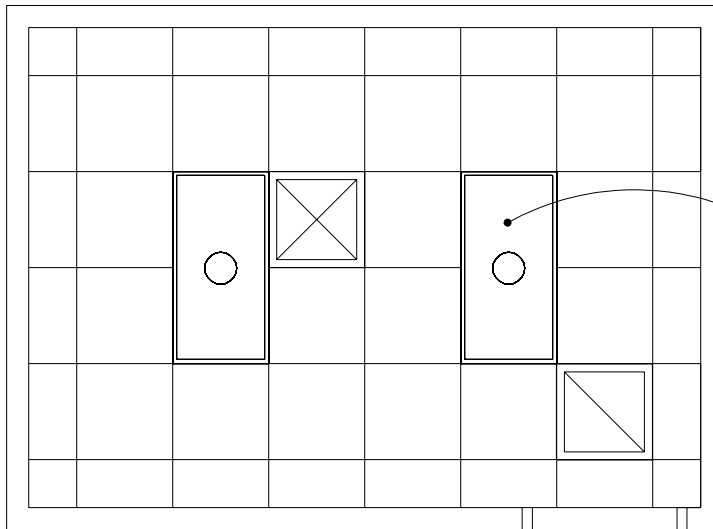


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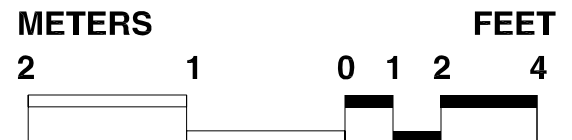


Reflected Ceiling Plan Drug Information Service

First Draft 8-14-96
Revised June 97



SEE: DESIGN STDS.
LIGHTING-NOTE 2.
(TYP.)



Design Standards

Drug Information Service

ARCHITECTURAL

Ceiling:	Acoustic Lay-In Ceiling Tile
Ceiling Ht:	2740 MM (9'-0")
Wall Finish:	Painted Gypsum Wallboard
Wainscot:	--
Base:	Resilient base
Floor Finish:	Carpet or Vinyl Composition Tile
Slab Depr:	--
Notes:	--

SPECIAL EQUIPMENT

None

LIGHTING

General:	1.7 w/sf538 lx (50 FC)
Special:	--
Notes:	1. Dual-level switching provided 50/15 FC levels.
	2. 600 x 1200mm (2'x4') recessed fluorescent light fixture, parabolic louver lens, W/3-F32T8 lamps, 3500°K, CRI=75 (Minimum)

POWER

General:	1200W (receptacles)
Emergency:	--
Notes:	--

COMMUNICATION

ADP:	Yes
Radio:	--
Telephone:	Yes
Intercom:	--
Pub. Addr:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Dry Bulb Temp Cooling:	25°C (78°F)
Dry Bulb Temp Heating :	22°C (72°F)
Minimum % Outside Air:	15
100% Exhaust Air:	--
Noise Criteria:	NC-35
Steam:	--
Relative Humidity/Cooling:	50%
Relative Humidity/Heating:	30%
Minimum Air Changes/Hr.:	4
Room Pressure:	0
AC Load Lighting:	18 w/sm (1.7 w/sf)
AC Load-Equipment:	43 w/hr (4 w/hr)
Number of People:	3
Special Exhaust:	--
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

Equipment Guide List

Drug Information Service

SYMBOL	QTY	AI	DESCRIPTION
AR		CC	SHELVING, FREESTANDING STEEL, LIBRARY, SINGLE FACED UNITS, WITH ADJUSTABLE SHELVES, 915mm W x 255mm D x 2285mm H (36"W X 10"D X 90"H) (PG-18-1, MCS 11052; PG-18-4)
AR		CC	SHELVING, SINGLE FACED UNITS, PERIODICAL, WITH SLOPING AND ADJUSTABLE SHELVES, 915mm W x 305mm D x 2285mm H (36"W X 12"D X 90"H) (PG-18-1, MCS 11052; PG-18-4)
AR		VV	BOOKCASE, SECTIONAL (EACH SECTION, 315mm W x 330mm D x 380mm H (33"W X 13"D X 15"H)) WITH 255mm H (10"H) BASE
1		VV	BULLETIN BOARD, APPROX., 915mm W x 915mm H (36"W X 36"H)
AR		VV	CHAIR, ROTARY, WITH ARMS
AR		VV	CHAIR, STRAIGHT, WITH ARMS
1		VV	CHALKBOARD/TACKBOARD COMBINATION, 1525mm W x 1220mm H (60"W x 48"H)
AR		VV	CLOCK, BATTERY OPERATED
AR		VV	COMPUTER, PRINTER
AR		VV	PC, COMPUTER SYSTEM, WITH KEYBOARD
1		VV	TABLE, OCCASIONAL, 1220mm (48") DIA.
AR		CF	CABINET, UNDERCOUNTER, 3 DRAWER, 395mm W x 555mm D x 760mm H (15"W x 22"D x 30"H)
AR		CF	COUNTER, TOP, HIGH PRESSURE LAMINATED, DECORATIVE 760mm W x 1525m L (30"W x 60"L)
1		CC	RECEPTACLE, ELECTRICAL, QUADAPLEX FOR COMPUTER EQUIPMENT ITEMS (PG-18-1, MCS 16140, H18-3, CS 866-1)
AR		CC	RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLTS, 20 AMPS (PG-18-1, MCS 16140: H-18-3, CS 801-3)