

INCH-POUND

MIL-HDBK-1037/4

15 JULY 1989

SUPERSEDING

DM-37.04

APRIL 1988

MILITARY HANDBOOK

BRIGS AND DETENTION FACILITIES



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NATIONAL IMPLEMENTING DOCUMENT/NATIONAL DE MISE EN APPLICATION

UK: UK Tech Ammo Bulletin No AER/1929 and Ammo & Explosive Regulations Vol-1, Pamphlet 11

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ABSTRACT

Guidance for the design of brigs and detention facilities is presented for use by designers. This handbook includes general and specific design criteria for brigs and detention facilities. In addition, the handbook includes collateral equipment requirements for the waterfront brig (small).

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FOREWORD

This handbook has been developed from an evaluation of facilities in the shore establishment, from surveys of the availability of new materials and construction methods, and from selection of the best design practices of the Naval Facilities Engineering Command (NAVFACENGCOM), other Government agencies, and the private sector. This handbook was prepared using, to the maximum extent feasible, national professional society, association, and institute standards. Deviations from these criteria in the planning, engineering, design, and construction of Naval shore facilities cannot be made without prior approval of NAVFACENGCOM HQ (Code 04).

Design cannot remain static any more than can the functions it serves or the technologies it uses. Accordingly, recommendations for improvement are encouraged and should be furnished to Commander, Naval Facilities Engineering Command, Code DSO2, 200 Stovall Street, Alexandria, VA 22332-2300; telephone commercial (202) 325-0450.

THIS HANDBOOK SHALL NOT BE USED AS A REFERENCE DOCUMENT FOR PROCUREMENT OF FACILITIES CONSTRUCTION. IT IS TO BE USED IN THE PURCHASE OF FACILITIES ENGINEERING STUDIES AND DESIGN (FINAL PLANS, SPECIFICATIONS, AND COST ESTIMATES). DO NOT REFERENCE IT IN MILITARY OR FEDERAL SPECIFICATIONS OR OTHER PROCUREMENT DOCUMENTS.

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COMMUNITY FACILITIES CRITERIA HANDBOOKS AND MANUALS

<u>Criteria Manual</u>	<u>Title</u>	<u>PA</u>
DM-37.1	Swimming Pools (Interim)	CHESDIV
MIL-HDBK-1037/2	Child Development Centers	PACDIV
MIL-HDBK-1037/3	Outdoor Sports And Recreational Facilities	PACDIV
MIL-HDBK-1037/4	Brigs and Detention Facilities	HDQTRS
DM-37.5	Family Service Centers	PACDIV
DM-37.06	Chapels and Religious Educational Facilities	PACDIV
MIL-HDBK-1037/7	Officers and Non-Commissioned Officers Dining Facilities; Open Enlisted Dining Facilities	CHESDIV

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BRIGS AND DETENTION FACILITIES

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Section 1: INTRODUCTION

1.1 Scope. This handbook has been developed exclusively for the Navy as the result of the plan of action outlined in the Navy Disciplinary System Study and Facility Master Plan, 1985. The handbook specifies security criteria governing the design, materials, construction, and installation of utilities and permanent equipment in Waterfront Brig (Small), detention facilities and correctional custody units. While it is recognized that this handbook is intended for new construction, the materials, construction criteria, and installation of permanent equipment applies to the renovation or upgrade of existing brigs detention facilities, detention cells and spaces, and correctional custody units.

Policies and procedures contained herein are intended as justification for specific building criteria and are not binding upon existing facilities with different physical plants unless such policies and procedures are specifically contained in the current edition of SECNAVINST 1640.9, Department of the Navy Corrections Manual.

1.2 Cancellation. This handbook cancels and supersedes "Interim Criteria" NAVFAC DM-37.04, Brigs and Detention Facilities (INTERIM) of October 1984.

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Section 2: WATERFRONT BRIG (SMALL) GENERAL CRITERIA

2.1 Facility Design Criteria

2.1.1 Introduction. The design criteria of the Waterfront Brig (Small) reflects the findings produced and implementation plan outlined in the Disciplinary System Study and Facility Master Plan (1985). All requests for variation to the design requirements or to the design directives stated in this handbook shall be forwarded for approval by NAVFAC Headquarters (Code 04), Chief NAVPERS (PERS 84), and CMC-MHC. The Waterfront Brig facility is designed to provide separate housing for pretrial detainees, Article 15 bread and water, correctional custody unit awardees, short-term sentenced prisoners, and female sentenced prisoners.

2.1.2 Administrative and Support Functions. The administrative and support functions are centralized and made available for use by all personnel in the brig. Industrial work space, when provided, will normally be located in an adjacent structure.

2.1.3 Dormitory Housing. The Dorm A housing component is designed so that it can be expanded. The octagon which contains the dayrooms can be expanded by extending the exterior walls behind the head areas, downward and then toward the octagon's center to square off the form. Or the octagonal form and entrance features may be replicated at a given distance from and parallel to the location shown in the facility plate.

2.2 Site Planning. Site Planning shall conform to requirements set forth in DM-1.01, Basic Architectural Requirements and Design Considerations, Section 3. In addition to the general siting requirements of that manual, consideration shall be given to the special requirements listed below:

a) The site shall be a rectilinear configuration of at least 5 acres with a minimum dimension of 356 feet (108 m) at the front face of the facility. This will provide space necessary for outdoor recreational and drill activities with a 50-foot (15 m) buffer between the building edge and the compound perimeter.

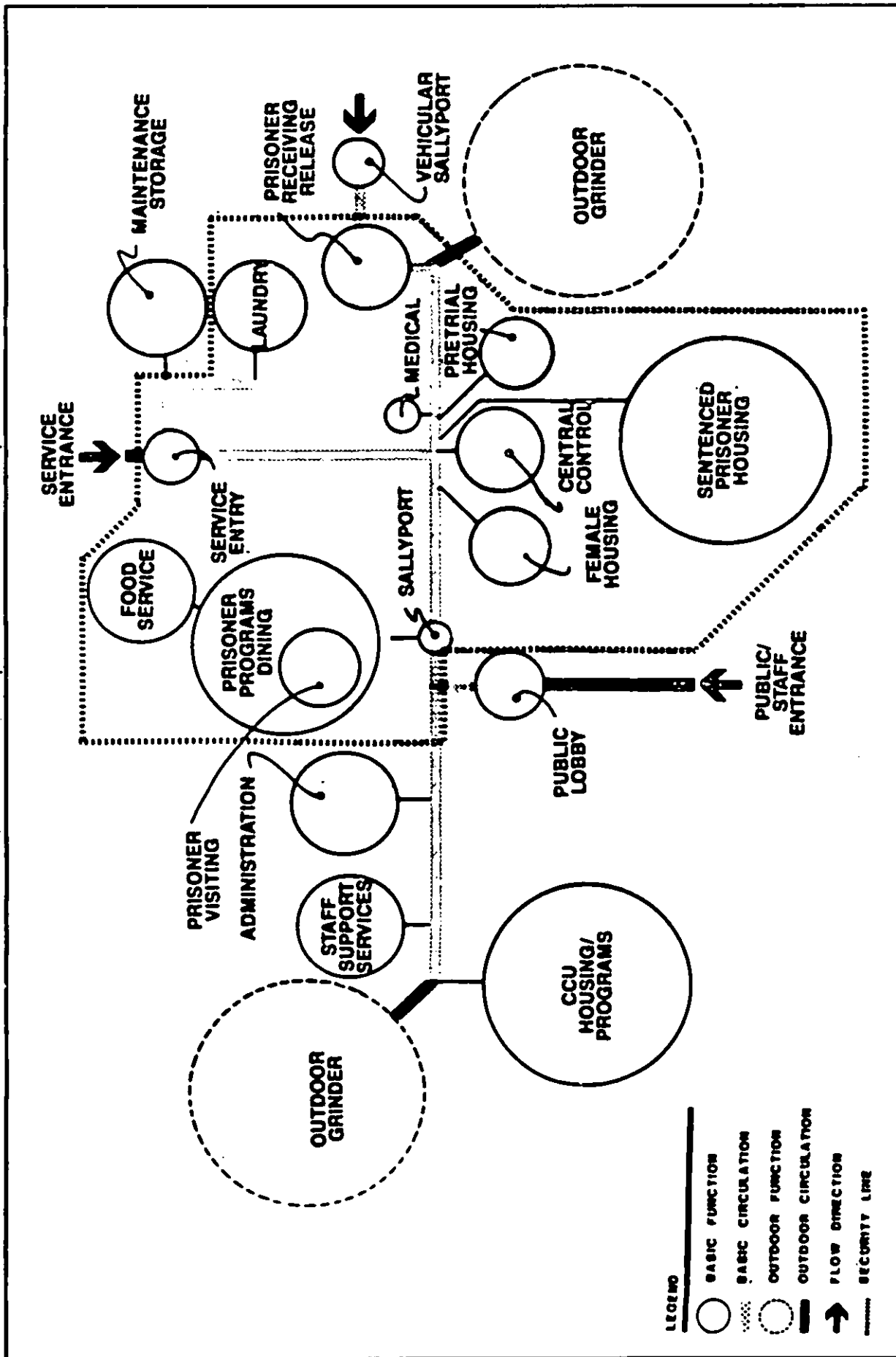
b) Candidate sites shall be evaluated for their potential to accept expansion of the Sentenced Dormitory housing and a proportionate increase in visitor parking.

c) This facility shall not be sited in a flood plain, a high-intensity noise or Explosive Safety Distance area, critical habitats or near safety hazards such as ammunition dumps, armories or major fuel storage containers. Siting shall meet the required distances from facilities such as medical and legal services, Personnel Support Detachment (PSD), civilian and military aircraft flights, family housing, school playgrounds, fire stations, and security offices. The site shall have economical proximity to utilities such as water, sewage, and electrical service. The facility shall be sited to minimize civil engineering improvements, roads, and demolition costs.

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d) Provide for a minimum of fifteen staff parking spaces and five visitor parking spaces. At least two of the total number of spaces shall be for the handicapped.

e) All final site selections shall be forwarded for review and approval by NAVFAC Headquarters, Code 04, Chief NAVPERS 84, and CMC-MHC before the A/E begins work.



FACILITY PLATE NO 1	CATEGORY CODE 730-15	DATE APR. 88	TITLE Program Summary
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PROGRAM SUMMARY

<u>AREA DESCRIPTION</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>
Public Lobby	539	636
Administration	824	1,077
Staff Muster	724	893
Control Center	406	478
Prisoner Visiting	1,393	2,113
Receiving/Release	1,053	1,386
Prisoner/Awardee Housing		
Multi-Purpose	688	755
-CCU1	2,666	3,721
-CCU2	540	920
Dorm A	3,201	5,760
Cell Block A	925	1,627
Cell Block B	921	1,685
Prisoner Programs	70	187
Medical	246	310
Mess Deck	1,472	1,770
Laundry	374	440
Maintenance		
-Maintenance	966	1,135
-Mechanical & Electrical (5% of gross area)		
Subtotal	17,008	24,893
Circulation	1,758	1,769
Exercise Yard Roof	---	308
Overhang		192
Subtotal	18,766	27,162
External Industry/Flammable Storage	2,000	2,600
GRAND TOTAL	20,766	29,762

TITLE

Program Summary

DATE

APR. 88

CATEGORY CODE

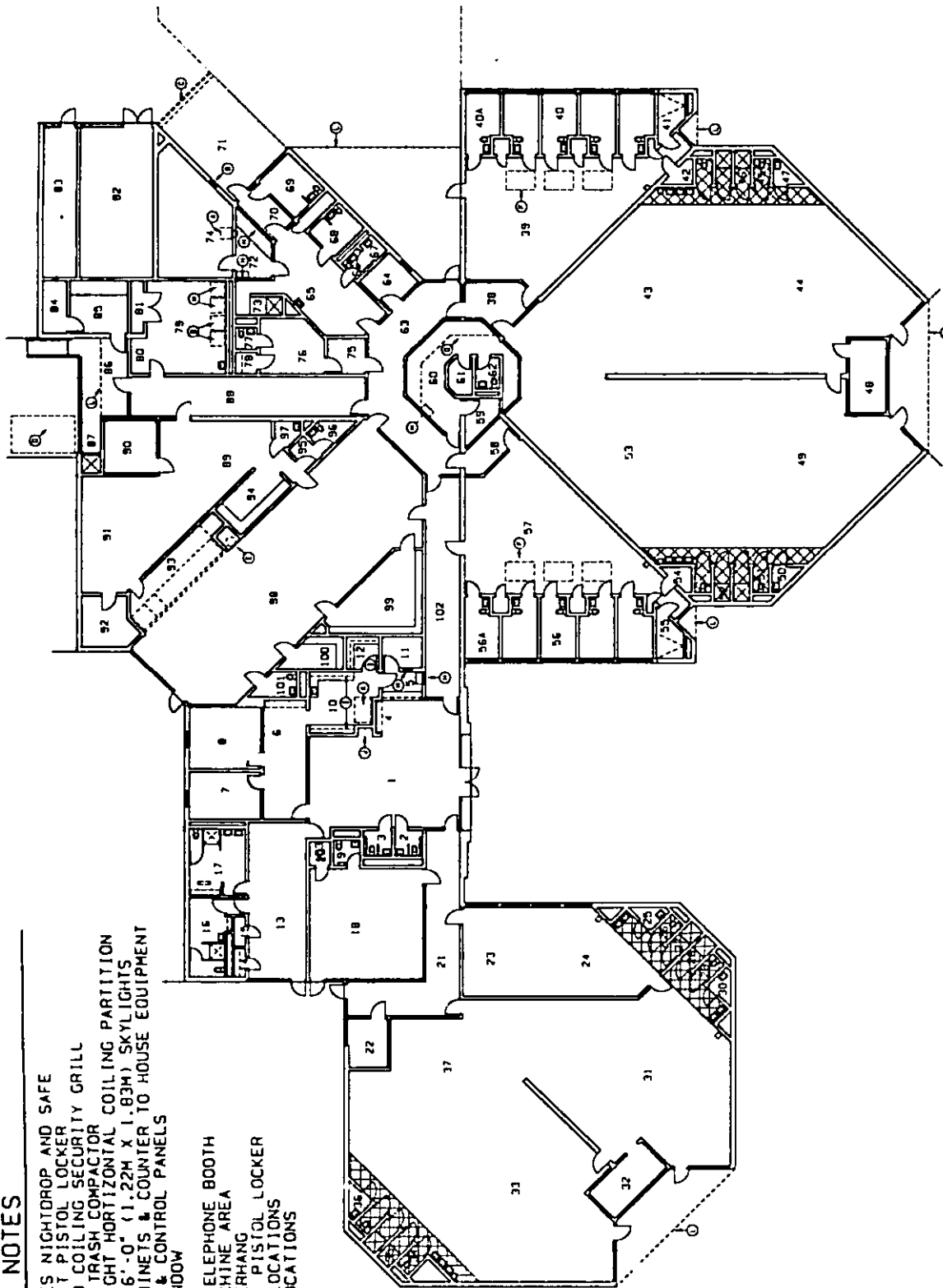
730-15

FACILITY
PLATE NO

2

GENERAL NOTES

- A. VALUABLES NIGHTDROP AND SAFE
- B. NINE UNIT PISTOL LOCKER
- C. OVERHEAD COILING SECURITY GRILL
- D. WET/DRY TRASH COMPACTOR
- E. FULL HEIGHT HORIZONTAL COILING PARTITION
- F. 4'-0" X 6'-0" (1.22M X 1.83M) SKYLIGHTS
- G. BASE CABINETS & COUNTER TO HOUSE EQUIPMENT STORAGE & CONTROL PANELS
- H. PASS WINDOW
- I. FILES
- J. PUBLIC TELEPHONE BOOTH
- K. COPY MACHINE AREA
- L. ROOF OVERHANG
- M. SIX UNIT PISTOL LOCKER
- N. WASHER LOCATIONS
- O. DRYER LOCATIONS



TITLE

Program Summary Plan

DATE

APR. 88

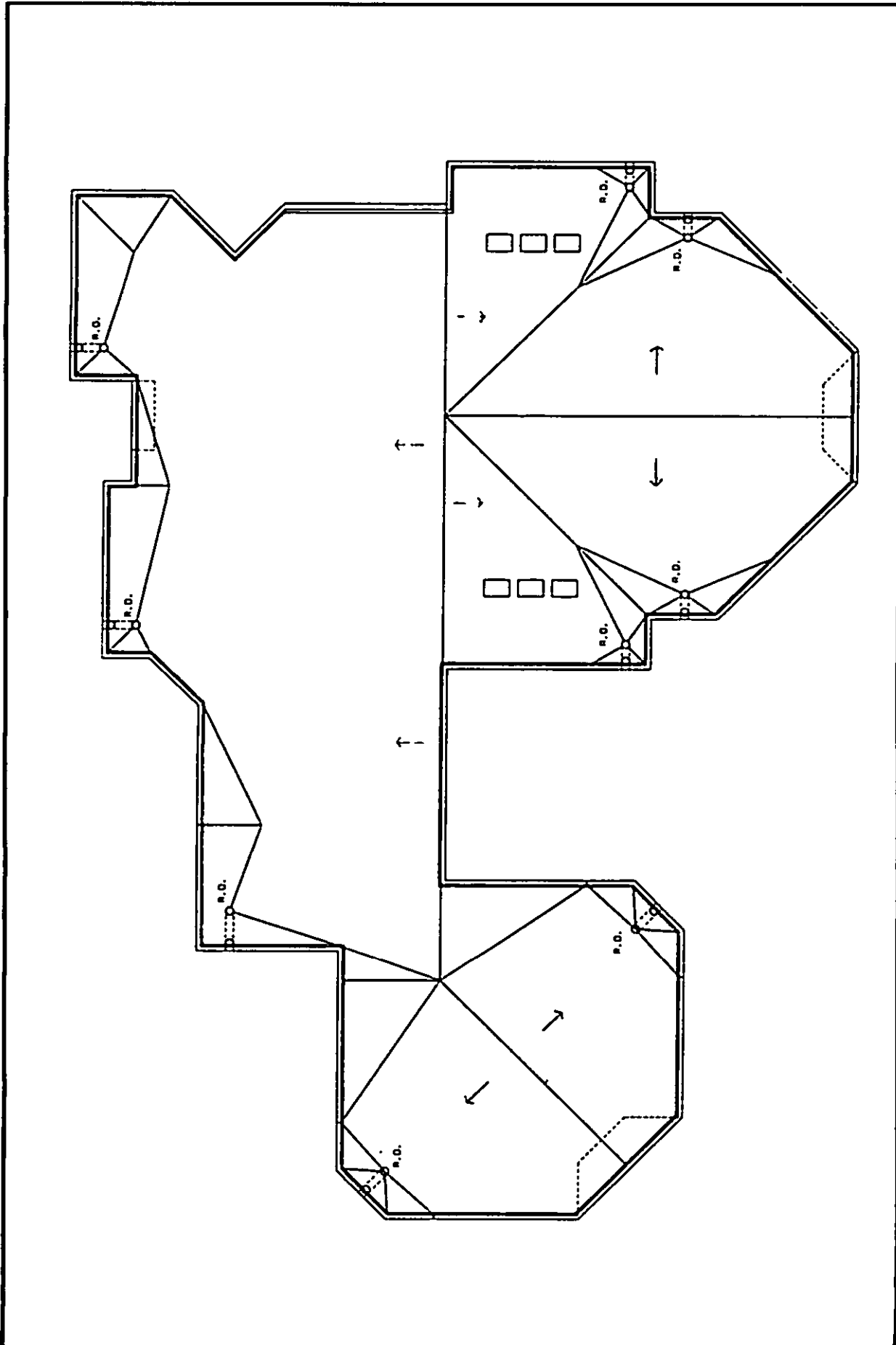
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FACILITY PLATE NO

4

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TITLE
Roof Plan

DATE
APR. 88

CATEGORY CODE
730-15

FACILITY
PLATE NO
5

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PUBLIC LOBBY

1. LOBBY
2. MEN'S HEAD
3. WOMEN'S HEAD
4. LOCKERS

ADMINISTRATION

5. RECEPTIONIST
6. ADMINISTRATIVE/RECORDS CLERK
7. CONFERENCE ROOM/OIC OFFICE
8. COMMANDING OFFICER
9. RECORDS AND FILES
10. WORK ROOM/COPY ROOM/SUPPLIES
11. ELECTRICAL ROOM
12. MAIL SORTING

STAFF MUSTER

13. MUSTER/TRAINING ROOM
14. AUDIO/VISUAL TRAINING MATERIALS
15. STORAGE
16. FEMALE LOCKER ROOM/HEADS & SHOWER
17. MALE LOCKER ROOM/HEADS & SHOWER

MULTI-PURPOSE

18. MULTI-PURPOSE ROOM
19. STAFF HEAD
20. STORAGE
21. CORRIDOR
22. STAFF OFFICE

CGU-2

23. DAYROOM
24. DORMITORY
25. JANITOR'S CLOSET
26. HEAD
27. SHOWER

CGU-1

28. SHOWER
29. HEAD
30. JANITOR'S CLOSET
31. DORMITORY
32. COUNSELOR'S OFFICE
33. DORMITORY
34. HEADS
35. SHOWERS
36. JANITOR'S CLOSET
37. DAYROOM

CELL BLOCK A (MALE)

38. SALLYPORT
39. DAYROOM
40. CELLS
- 40A. HIGH SECURITY CELL
41. SHOWER
42. JANITOR'S CLOSET

DORM A

43. DAYROOM
44. DORMITORY
45. HEADS
46. SHOWERS
47. JANITOR'S CLOSET
48. COUNSELOR'S OFFICE
49. DORMITORY
50. JANITOR'S CLOSET
51. HEADS
52. SHOWERS
53. DAYROOM

CELL BLOCK B (FEMALE)

54. JANITOR'S CLOSET
55. SHOWER
56. CELLS
- 56A. HIGH SECURITY CELL
57. DAYROOM
58. SALLYPORT

CONTROL CENTER

59. OBSERVATION ROOM
60. CENTRAL CONTROL
61. EMERGENCY EQUIPMENT CLOSET
62. HEAD
63. SECURED CORRIDOR
64. OPERATIONS OFFICER'S OFFICE

RECEIVING/RELEASE

65. INTAKE WAITING
66. STAFF HEAD
67. JANITOR'S CLOSET
68. HOLDING CELL
69. HOLDING CELL
70. SALLYPORT
71. VEHICULAR SALLYPORT
72. RECEIVING/RELEASE SUPERVISOR
73. SHOWER
74. PROPERTY/SEABAG STORAGE

MEDICAL

75. PRISONER WAITING
76. EXAMINATION ROOM
77. HEAD
78. SECURE STORAGE/DISPENSORY STORAGE

LAUNDRY

79. LAUNDRY
80. CART STORAGE
81. CLEAN STORAGE

MAINTENANCE

82. MECHANICAL ROOM
83. ELECTRICAL ROOM
84. SECURE STORAGE
85. MAINTENANCE SHOP
86. RECEIVING AREA/LOADING DOCK
87. CAN WASH
88. SECURE CORRIDOR

GALLEY

89. PREPARATION
90. MESS SUPERVISOR
91. REFRIGERATOR/FREEZER STORAGE AREA
92. DRY STORAGE
93. SERVERY
94. DISHWASHING
95. VESTIBULE
96. HEAD
97. JANITOR'S CLOSET

MESS DECK

98. MULTIPURPOSE ROOM
99. LIBRARY/INTAKE REVIEW ROOM
100. STORAGE
101. HEAD
102. SECURE CORRIDOR

TITLE

Legend

DATE

APR. 88

CATEGORY CODE

730-15

FACILITY
PLATE NO

6

MIL-HDBK-1037/4

SPACE NO.	DESCRIPTION	FLOOR	WALL	CEILING
PUBLIC LOBBY				
01	Lobby	VCT	Painted CMU	Acous. tile
02	Men's Head	Cer. Tile	Painted CMU	Painted gyp. bd.
03	Women's Head	Cer. Tile	Painted CMU	Painted gyp. bd.
04	Lockers	-	-	-
ADMINISTRATION				
05	Receptionist	VCT	Painted CMU	Acous. tile
06	Administrative/ Records Clerk	VCT	Painted CMU	Acous. tile
07	Conference Room	Carpet	Painted CMU	Acous. tile
08	Commanding Officer	Carpet	Painted CMU	Acous. tile
09	Records & Files	VCT	Painted CMU	Acous. tile
10	Work Room/Copy Room/ Supplies	VCT	Painted CMU	Acous. tile
11	** Electrical Room	Conc.	Painted CMU	Exposed Struct.
12	Mail Sorting	VCT	Painted CMU	Acous. tile
STAFF MUSTER				
13	Muster Training Room	VCT	Painted CMU	Acous. tile
14	A/V Storage	VCT	Painted CMU	Acous. tile
15	Storage	VCT	Painted CMU	Acous. tile
16	Female Locker Room, Heads & Shower	VCT/ Cer. tile	Cer. tile	Painted gyp. bd.
17	Male Locker Room, Heads, & Shower	VCT/ Cer. tile	Cer. tile	Painted gyp. bd.
MULTI-PURPOSE				
18	Multipurpose	VCT	Painted CMU	Acous. tile
19	Head	Cer. tile	Ceramic tile	Painted gyp. bd.
20	Storage	VCT	Painted CMU	Acous. tile
21	Corridor	VCT	Painted CMU	Acous. tile
22	Office	VCT	Painted CMU	Acous. tile

** If this is actually telephone equipment room, VCT and acoustical tile will be required.

TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Finish Schedule	APR. 88	730-15	7

MIL-HDBK-1037/4

SPACE NO.	DESCRIPTION	FLOOR	WALL	CEILING
CCU 2				
23	Dayroom	Conc.	Painted CMU	Exposed Struc.
24	Dormitory	Conc.	Painted CMU	Exposed Struc.
25	Jan. Clos.	Conc.	Painted CMU	Painted gyp. bd.
26	Head	Cer. tile	Ceramic tile	Painted conc.
27	Shower	Cer. tile	Ceramic tile	Painted conc.
CCU 1				
28	Shower	Cer. tile	Ceramic tile	Painted conc.
29	Head	Cer. tile	Ceramic tile	Painted conc.
30	Jan. Clos.	Conc.	Painted CMU	Painted gyp. bd.
31	Dormitory	Conc.	Painted CMU	Exposed Struc.
32	Counselor's Office	VCT	Painted CMU	Acous. tile
33	Dormitory	Conc.	Painted CMU	Exp. Struc.
34	Heads	Cer. tile	Ceramic tile	Painted conc.
35	Showers	Cer. tile	Ceramic tile	Painted conc.
36	Janitor's Closet	Conc.	Painted CMU	Painted gyp. bd.
37	Dayroom	Conc.	Painted CMU	Exposed Struc.
CELL BLOCK A (MALE)				
38	Sallyport	VCT	Painted CMU	Painted gyp bd.
39	Dayroom	Conc.	Painted CMU	Exposed Struc.
40	Cells	Conc.	Painted CMU	Painted conc.
40A	Bread & Water Cell	Conc.	Painted CMU	Painted conc.
41	Showers	Cer. tile	Ceramic tile	Painted conc.
42	Janitor's Closet	Conc.	Painted CMU	Conc.
DORM A				
43	Dayroom	Conc.	Painted CMU	Exposed Struc.
44	Dormitory	Conc.	Painted CMU	Exposed Struc.
45	Heads	Cer. tile	Ceramic tile	Painted conc.
46	Showers	Cer. tile	Ceramic tile	Painted conc.
47	Janitor's Closet	Conc.	Painted CMU	Painted conc.
48	Counselor	VCT	Painted CMU	Acous. tile
49	Dormitory	Conc.	Painted CMU	Exposed Struc.
50	Janitor's Closet	Conc.	Painted CMU	Painted conc.
51	Heads	Cer. tile	Ceramic tile	Painted conc.
52	Showers	Cer. tile	Ceramic tile	Painted conc.
53	Dayroom	Conc.	Painted CMU	Exposed Struc.
CELL BLOCK B (FEMALE)				
54	Janitor's Closet	Conc.	Painted CMU	Painted gyp. bd.
55	Shower	Cer. tile	Ceramic tile	Painted conc.
56	Cells	Conc.	Painted CMU	Painted conc.
56A	Bread & Water Cell	Conc.	Painted CMU	Painted conc.
57	Dayroom	Conc.	Painted CMU	Exposed struc.
58	Sallyport	VCT	Painted CMU	Painted gyp. bd.
59	Officer Station	VCT	Painted CMU	Acous. tile

TITLE

Finish Schedule

DATE

APR. 88

CATEGORY CODE

730-15

FACILITY
PLATE NO

8

MIL-HDBK-1037/4

SPACE NO.	DESCRIPTION	FLOOR	WALL	CEILING
CONTROL CENTER				
60	Central Control	VCT	Painted CMU	Acous. tile*
61	Emergency Equip. Clos.	VCT	Painted CMU	Acous. tile
62	Head	Cer. tile	Ceramic tile	Acous. tile
63	Secured Corridor	VCT	Sec. Glazing	Painted gyp. bd.
64	Master Chief's Office	VCT	Painted CMU	Acous. tile
RECEIVING/RELEASE				
65	Intake Waiting	Conc.	Painted CMU	Painted gyp. bd.
66	Head	Cer. tile	Ceramic tile	Painted gyp. bd.
67	Janitor's Closet	Conc.	Painted CMU	Painted gyp. bd.
68	Holding Cell	Conc.	Painted CMU	Painted conc.
69	Holding Cell	Conc.	Painted CMU	Painted conc.
70	Sallyport	Broom Fin. Conc.	Painted CMU	Painted gyp. bd.
71	Vehicular Sallyport	-	-	-
72	Custodian/Booking Officer	VCT	Painted CMU	Acous. tile
73	Shower	Cer. tile	Ceramic tile	Painted gyp. bd.
74	Property/Sea Bag/Storage	Conc.	Painted CMU	Exposed Struc.
MEDICAL				
75	Prisoner Waiting	VCT	Painted CMU	Painted gyp. bd.
76	Exam Room	VCT	Painted CMU	Painted gyp. bd.
77	Head	Cer. tile	Ceramic tile	Painted gyp. bd.
78	Secure Stor./Disp. Storage	VCT	Painted CMU	Painted gyp. bd.
LAUNDRY				
79	Laundry	Conc.	Painted CMU	Painted gyp. bd.
80	Cart Storage	Conc.	Painted CMU	Painted gyp. bd.
81	Clean Storage	Conc.	Painted CMU	Painted gyp. bd.

* Suspended acoustical system when walls of Central Control are carried to underside of roof deck; acoustical units applied with adhesive when a concrete slab is provided over Central Control and walls terminate below roof deck.

TITLE

Finish Schedule

DATE

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CATEGORY CODE

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FACILITY
PLATE NO

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MIL-HDBK-1037/4

SPACE NO.	DESCRIPTION	FLOOR	WALL	CEILING
MAINTENANCE				
82	HVAC Room	Trowel Fin. Conc.	Painted CMU	Exposed struc.
83	Electrical Room	Trowel Fin. Conc.	Painted CMU	Exposed struc.
84	Secure Storage	Trowel Fin. Conc.	Painted CMU	Exposed struc.
85	Maintenance	Trowel Fin. Conc.	Painted CMU	Exposed struc.
86	Loading Dock	Broom Fin. Conc.	Local Ext. finish material	Ext. gyp. bd.
87	Can Wash	Broom Fin. Conc.	Local Ext. finish material	Ext. gyp. bd.
88	Secure Corridor	VCT	Painted CMU	Painted gyp. bd.
89	Preparation	Quarry tile	Quarry tile	Painted gyp. bd.
90	Office	VCT	Painted CMU	Painted gyp. bd.
91	Storage	Quarry tile	Quarry tile	Painted gyp. bd.
92	Storage	Quarry tile	Painted CMU	Painted gyp. bd.
93	Servery	Quarry tile	Quarry tile	Painted gyp. bd.
94	Dishwashing	Quarry tile	Quarry tile	Painted gyp. bd.
95	Vestibule	Quarry tile	Ceramic tile	Painted gyp. bd.
96	Head	Cer. tile	Ceramic tile	Painted gyp. bd.
97	Janitor's Closet	Conc.	Painted CMU	Painted gyp. bd.
MESS DECK				
98	Multipurpose Space	VCT	Painted CMU	Acous. tile
99	Library/Quiet Reading/Group Counseling/Magistrate	VCT	Painted CMU	Acous. tile
100	A/V Storage	VCT	Painted CMU	Acous. tile
101	Head	Cer. tile	Painted CMU	Painted gyp. bd.
102	Secure Corridor	VCT	Painted CMU	Painted gyp. bd.

VCT Vinyl/Composition tile
 CMU Concrete masonry unit
 Gyp. bd. Gypsum Board
 Acous. Acoustical
 Conc. Concrete
 Exposed Struc. Structure (Painted)

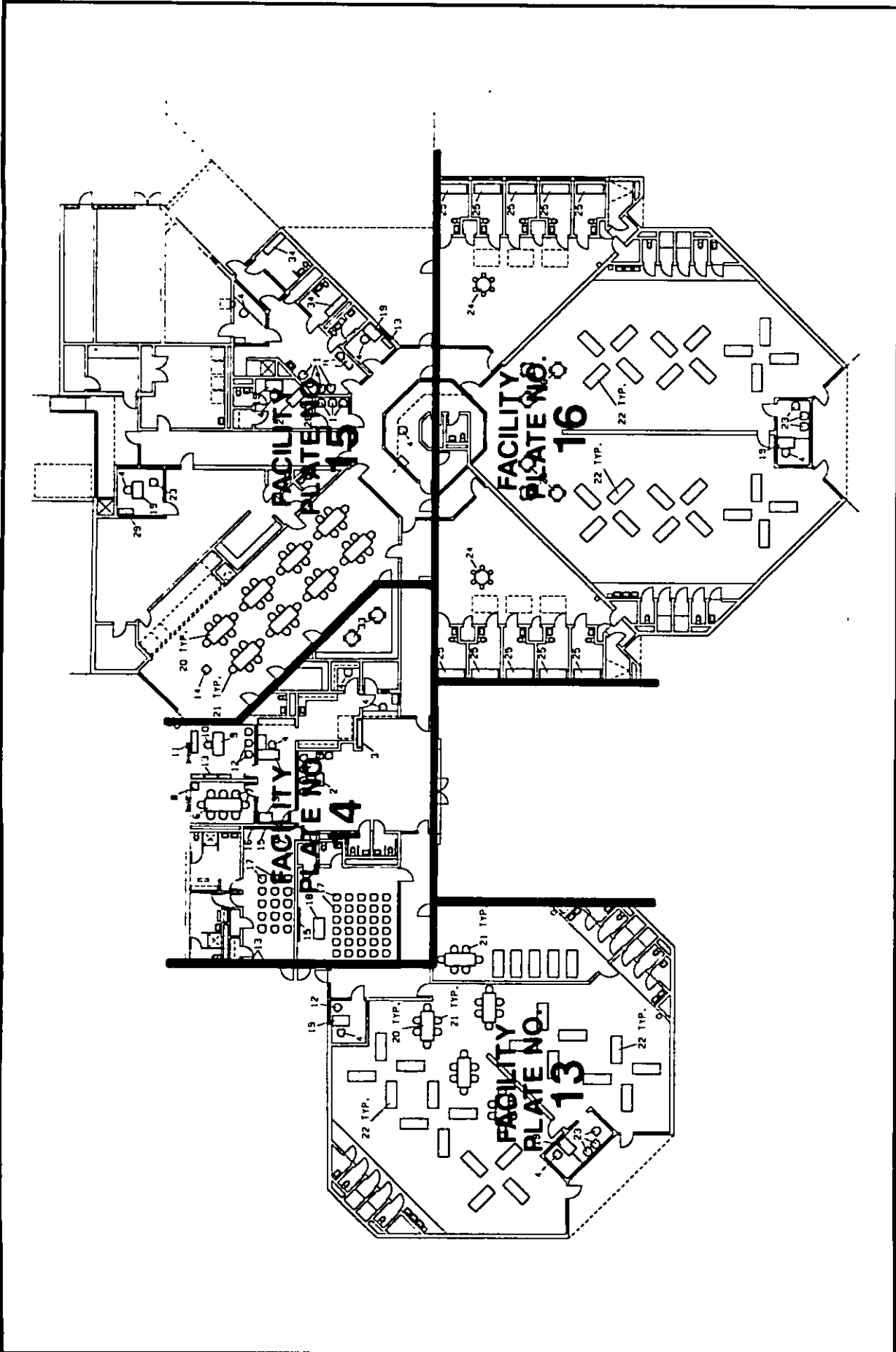
TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Finish Schedule	APR. 88	730-15	10

MIL-HDBK-1037/4

1. INDIVIDUAL CHAIRS, INTERLOCKED
2. 2' X 4' (NOMINAL) COFFEE TABLE
3. 6 EA. 6 UNIT LOCKERS
4. SECRETARIAL SWIVEL CHAIR, ARMLESS
5. SECRETARIAL L DESK
6. 4' X 8' (NOMINAL) CONFERENCE TABLE
7. CONFERENCE CHAIRS W/ARMS
8. 2' X 2' X 20' (NOMINAL) TELEPHONE TABLE
9. 36" X 72" (NOMINAL) EXECUTIVE DESK
10. EXECUTIVE SWIVEL CHAIR
11. 18" X 62" (NOMINAL) CREDENZA
12. SIDE ARM CHAIRS
13. 36" X 48" X 12" BOOK CASE
14. LECTERN
15. CHALKBOARD
16. TACKBOARD
17. STUDENT ARMCHAIRS
18. 30" X 60" (NOMINAL) FOLDING TABLE
19. 30" X 48" DESK
20. 36" X 84" FOLDING TABLE
21. STACK CHAIRS
22. SINGLE BUNK 78" X 30"
23. ARMLESS CHAIRS
24. 6 PERSON PEDESTAL TABLES FLOOR MOUNTED
25. 27" X 80" WALL MOUNTED BUNK
26. 4 PERSON PEDESTAL TABLES
27. 27" X 52" EXAM TABLE
28. EXAM STOOL
29. 4 DRAWER UPRIGHT FILE CABINET
30. 36" ROUND TABLE
31. 36" LATERAL FILES
32. PRINTER STAND
33. 36" ROUND TABLES
34. BENCH, WALL-MOUNTED STEEL

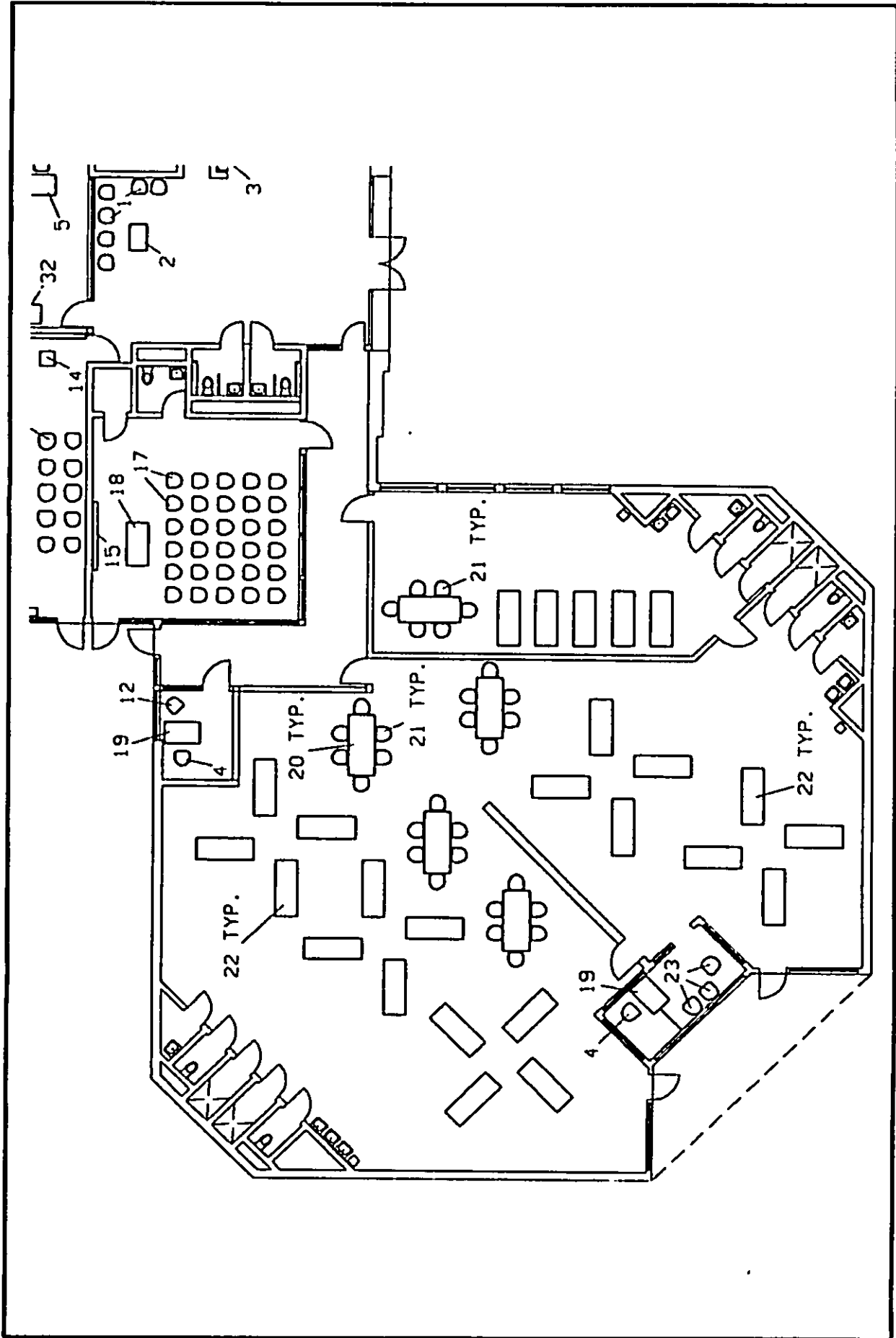
TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Furniture Schedule	APR. 88	730-15	11

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TITLE Furniture Plan	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 12
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MIL-HDBK-1037/4



TITLE

Furniture Partial Plan

DATE

APR. 88

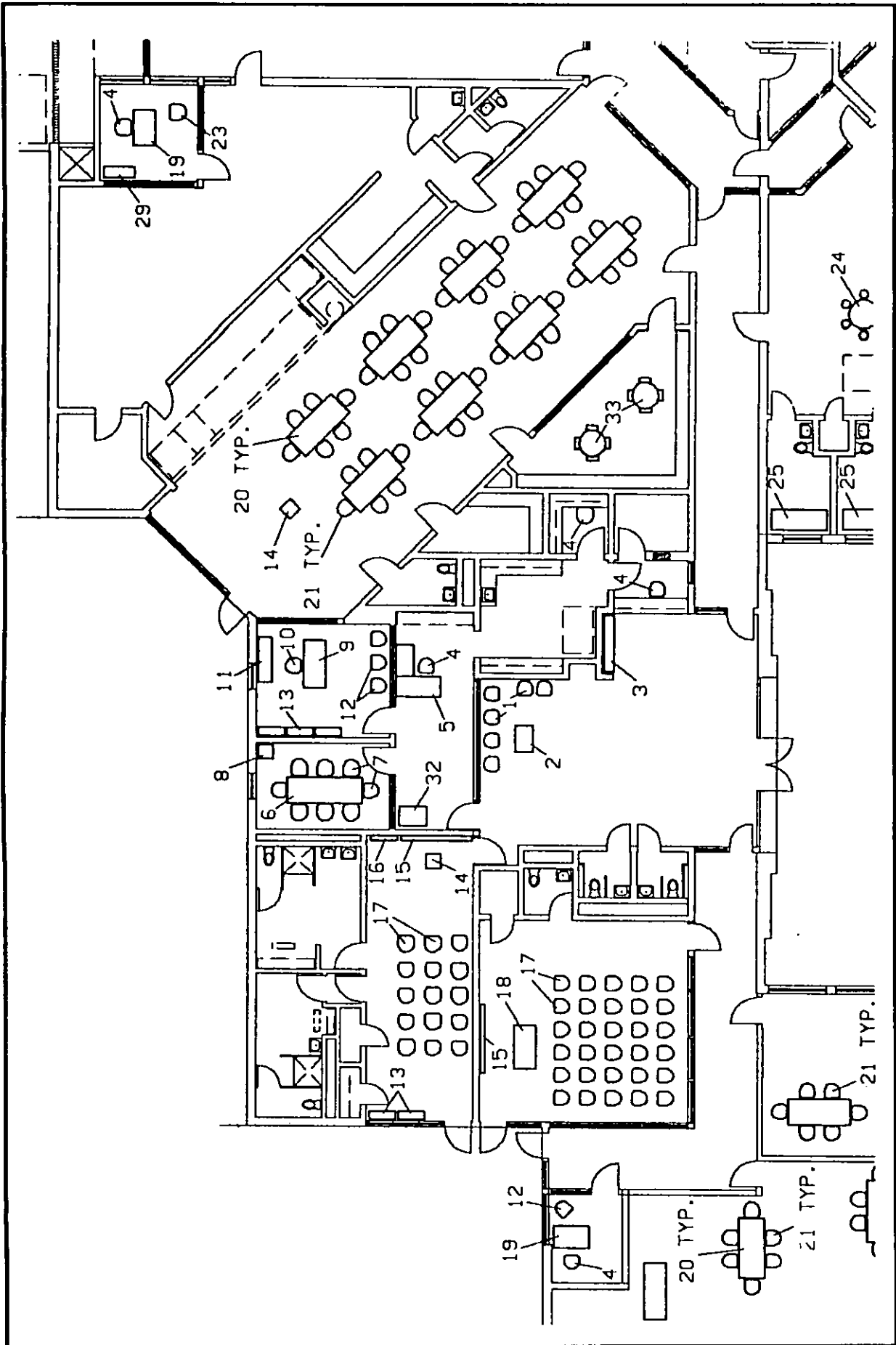
CATEGORY CODE

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FACILITY PLATE NO

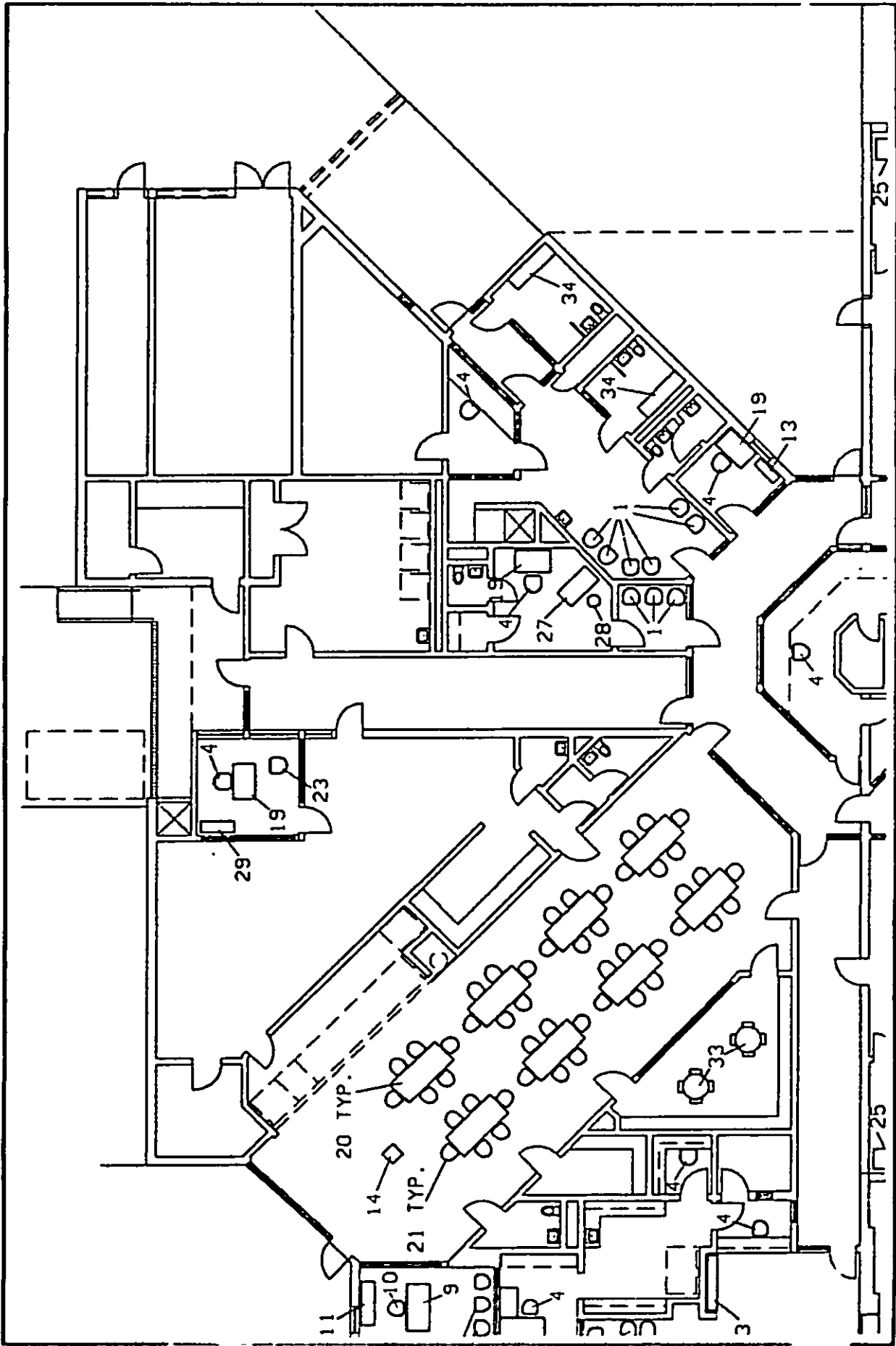
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MIL-HDBK-1037/4



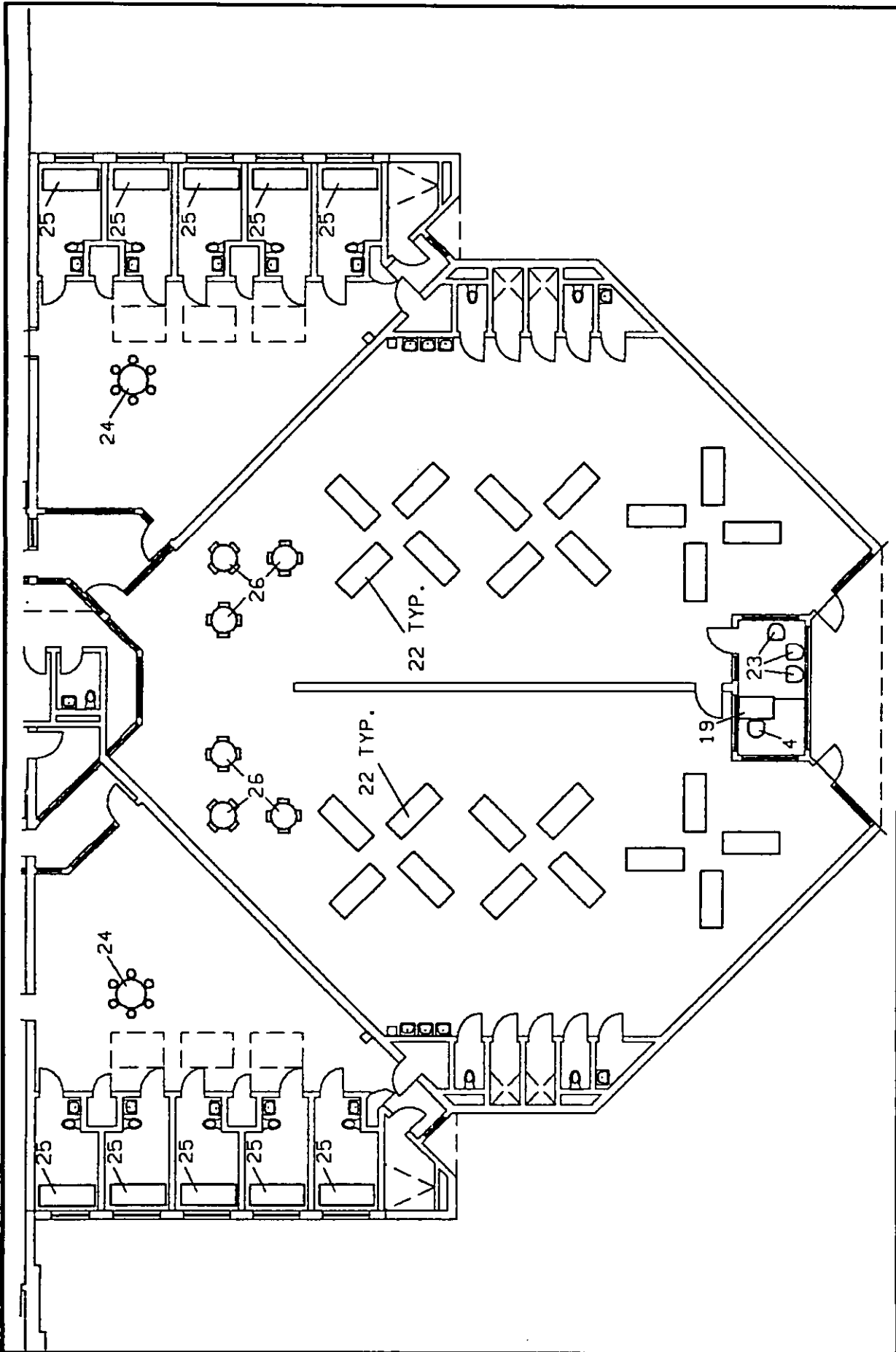
TITLE Furniture Partial Plan	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 14
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MIL-HDBK-1037/4



TITLE Furniture Partial Plan	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 15
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MIL-HDBK-1037/4



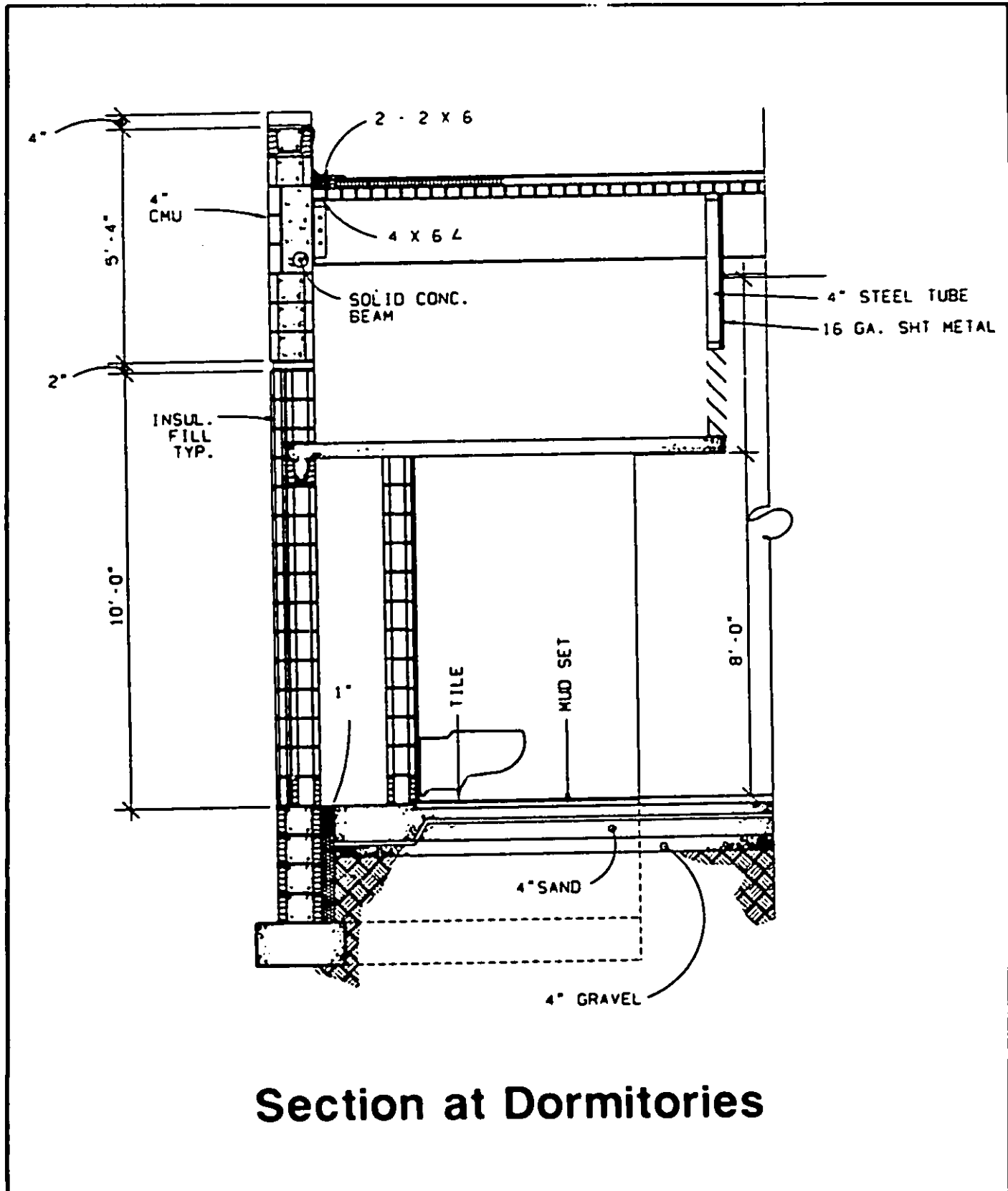
FACILITY
PLATE NO
16

CATEGORY CODE
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DATE
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TITLE
Furniture Partial Plan

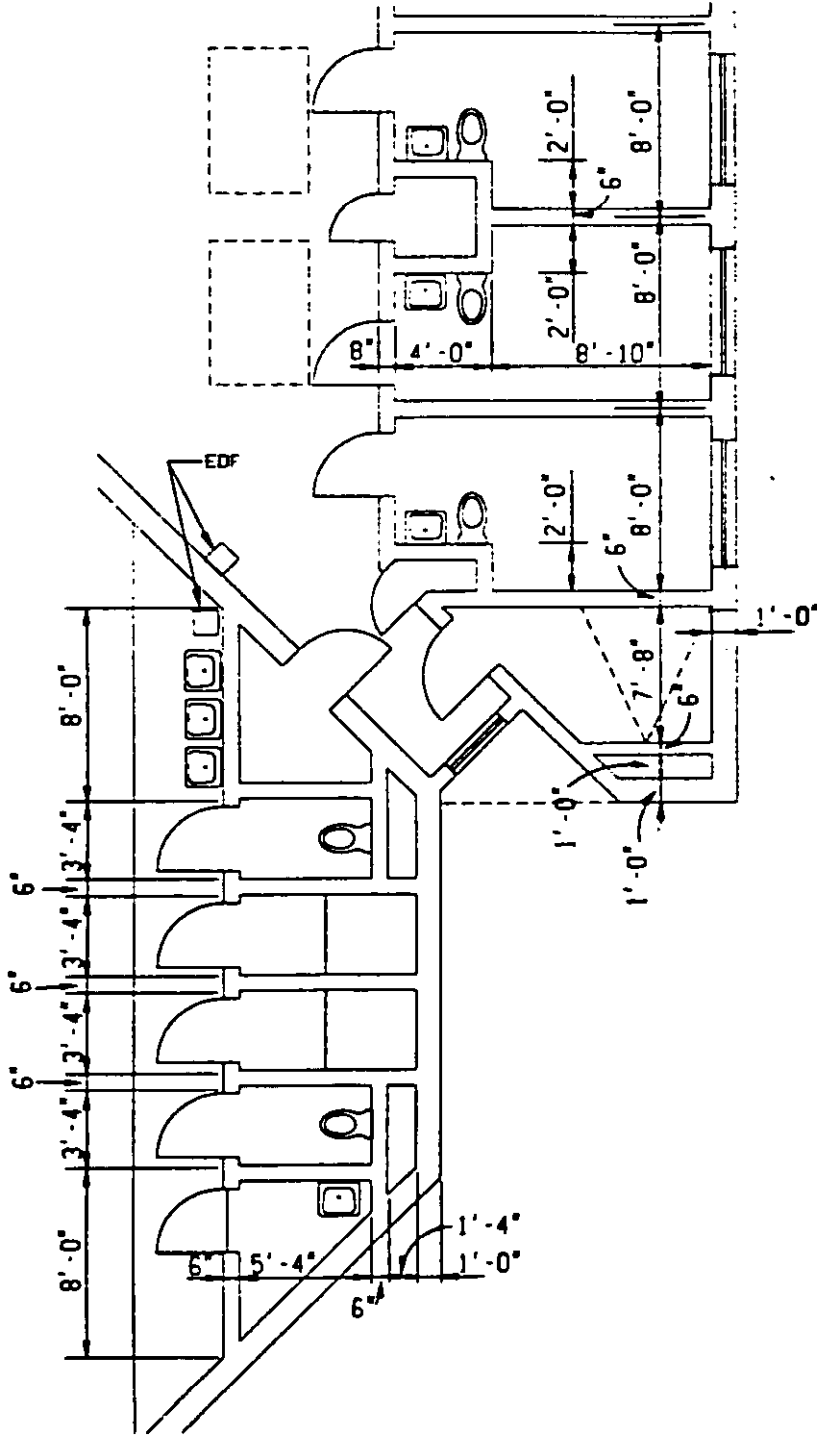
MIL-HDBK-1037/4



Section at Dormitories

<p>TITLE Wall Section</p>	<p>DATE APR. 88</p>	<p>CATEGORY CODE 730-15</p>	<p>FACILITY PLATE NO 17</p>
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MIL-HDBK-1037/4



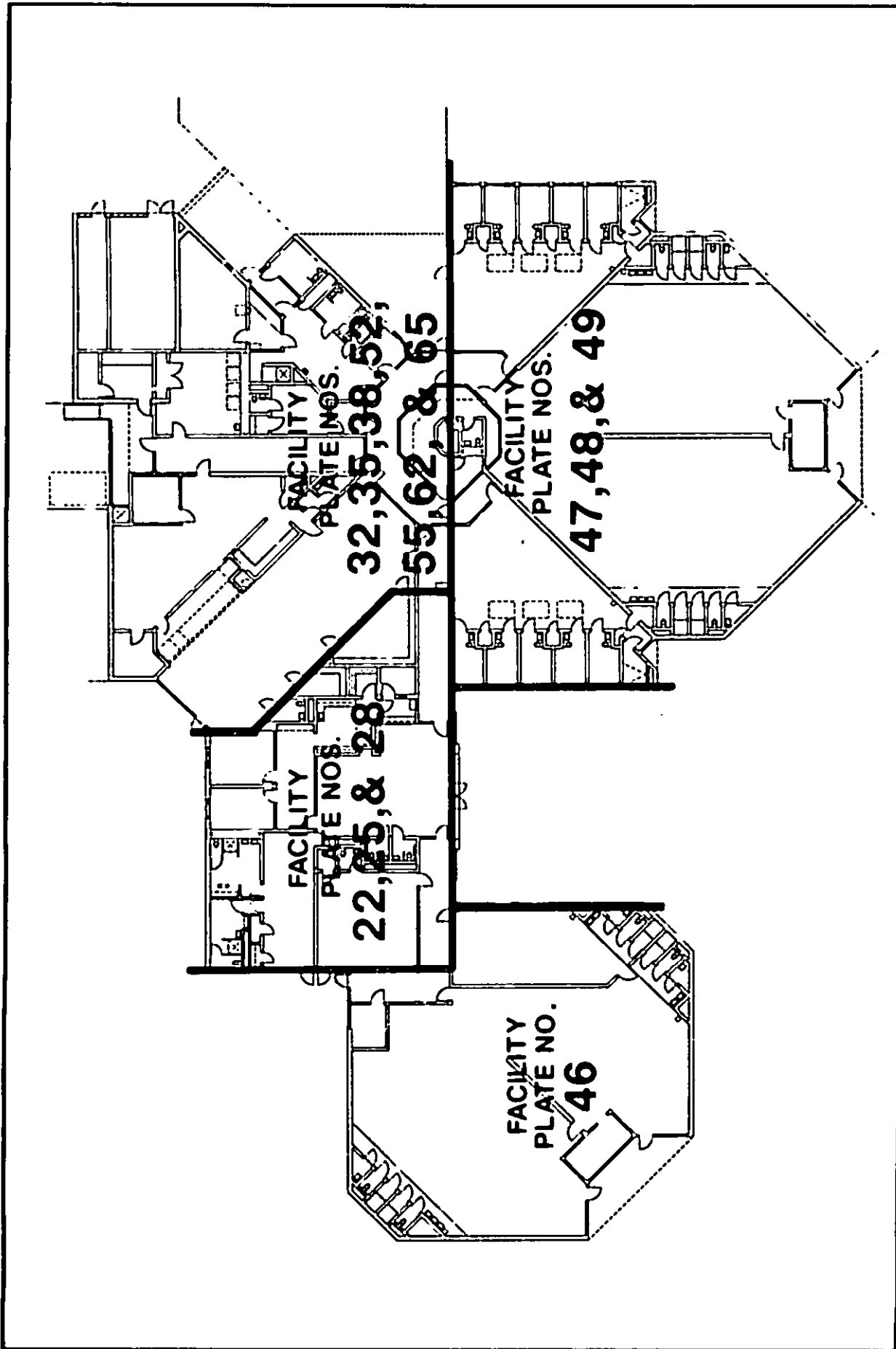
TITLE
Cells, Showers, and Heads Plan

DATE
APR. 88

CATEGORY CODE
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TITLE
Key Plan

DATE
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Section 3: SPECIFIC DESIGN CRITERIA

3.1 Public Lobby

3.1.1 Policy Issues. The Public Lobby serves the brig and correctional custody unit. It is the portion of the administration and prisoner visiting components that serves as the public lobby/reception and waiting areas. This space shall be readily accessible, visible from the exterior and be located outside the secured portion of the facility.

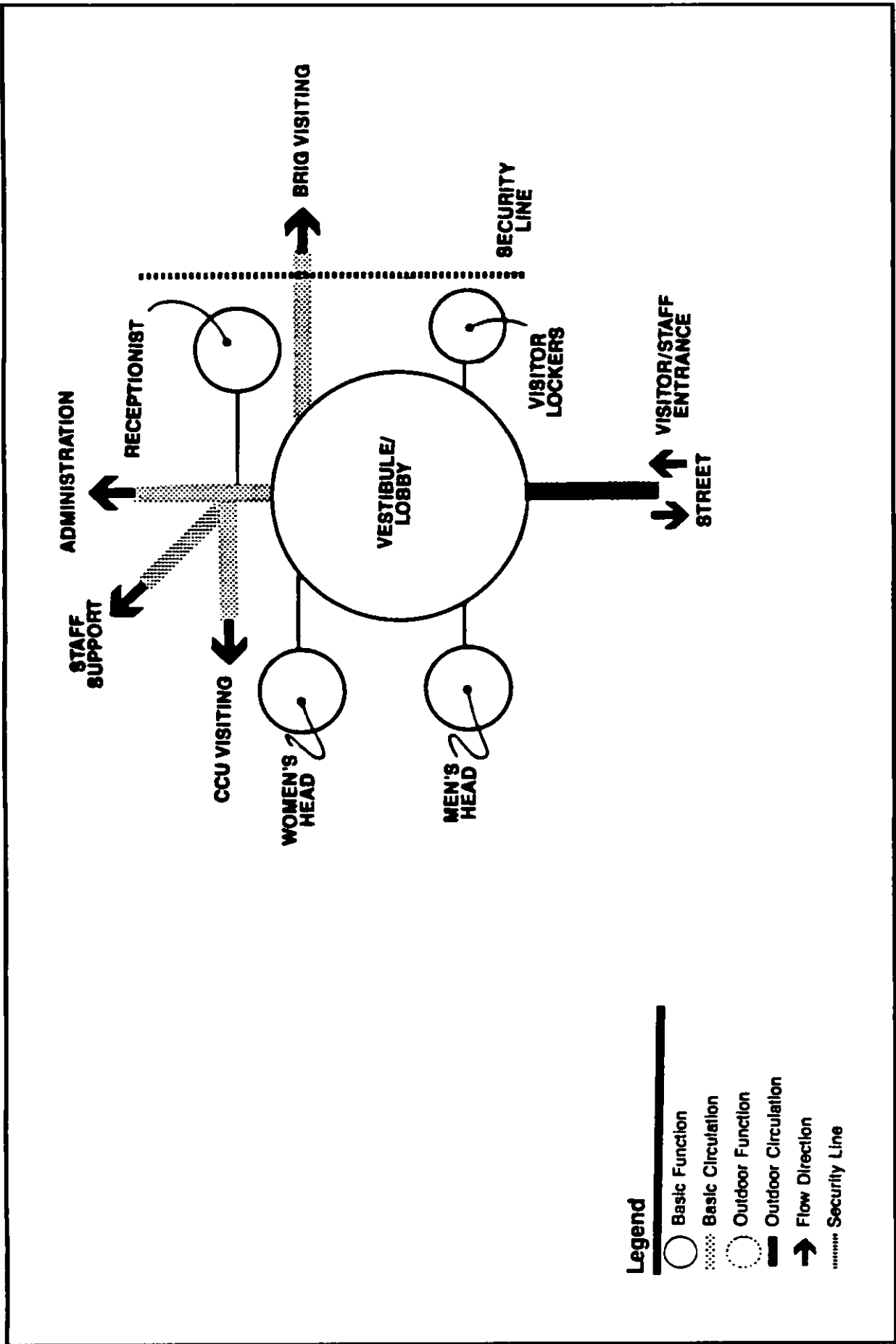
3.1.2 Security/Circulation. The staff person serving as receptionist shall be equipped with a duress signal device. Access through secured perimeter and into the prisoner visiting area shall be monitored and controlled by Central Control. During regular business hours, the receptionist shall operate the telephone switchboard and shall control access into the administration area. During evenings and weekends, telephone switchboard operation shall be controlled by Central Control. Staff shall gain access into Support/Staff Training through a controlled access system (such as digital combination lock system). All visitors entering the secure area of the brig shall be screened by a walk-through metal detector.

a) The Public Lobby shall be monitored by Central Control during evening and night hours by use of an intercom located at the front door of the facility. During normal business hours, Central Control shall serve as backup to the Receptionist/Records Clerk.

b) During evenings and weekends, all public and official visitors requesting entry to the secure portion of the facility shall communicate with Central Control staff via an intercom system located adjacent to the door leading to the secure corridor.

3.1.3 User Needs. The Public Lobby shall contain a sign-in counter, comfortable seating, public telephone, ash urn, public heads, drinking fountain, walk-through metal detector, and legible signs indicating visiting hours and procedures.

3.1.4 Special Requirements, Materials, Furnishings. The waiting area shall be subdivided from the lobby by using the placement of furnishings to establish its boundaries. All elements of this area are intentionally highly visible from the administration clerical area and the receptionist desk. The ceiling height in this area shall be 10 feet (3.05 m).



<p>TITLE Public Lobby</p>	<p>DATE APR. 88</p>	<p>CATEGORY CODE 730-15</p>	<p>FACILITY PLATE NO 20</p>
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<u>AREA DESCRIPTION</u>	<u>SPACE NO.</u>	<u>PERSONS PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
Lobby	1	23	1	437		1
Men's Head	2	1	1	33		
Women's Head	3	1	1	33		
Lockers	4	6 locker units	1	36		2
TOTAL				539	636	

NOTES;

1. Equipped for handicapped access.
2. Six 6-tier locker units 12" deep.

TITLE

Public Lobby

DATE

APR. 88

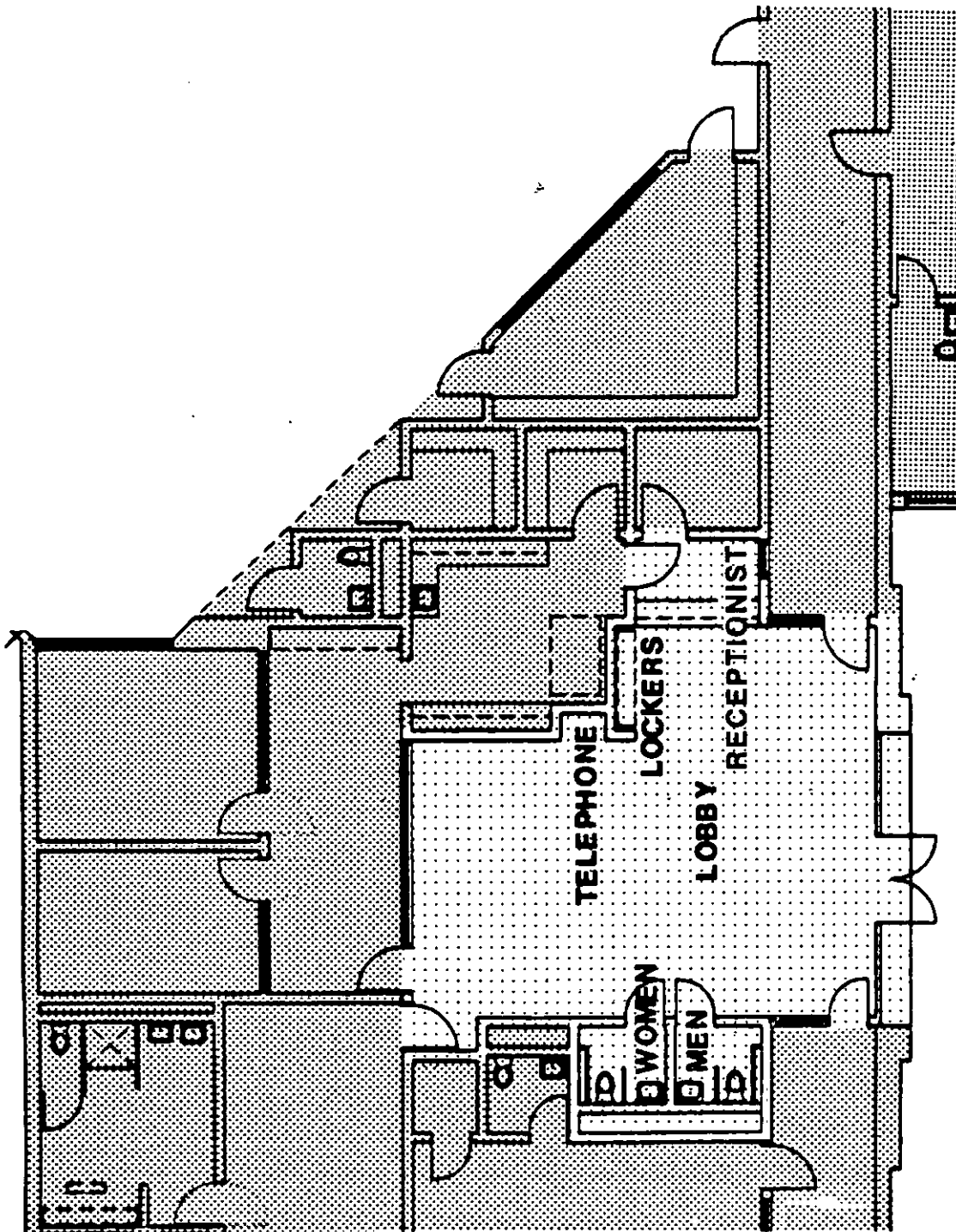
CATEGORY CODE

730-15

FACILITY
PLATE NO

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TITLE

Public Lobby

DATE

APR. 88

CATEGORY CODE

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3.2 Administration

3.2.1 Policy Issues. Distinct administrative areas separate from security functions shall be provided for brig operations. Administrative areas shall give the appearance of a normal office environment. Space shall be provided for administrative staff, clerical personnel, conferences, and meetings.

3.2.2 Security/Circulation. The Administrative Officer/Clerk Supervisor shall be located adjacent to the Commanding Officer, but have easy access to mail/copy room and prisoner files. Access into Administration shall be secured by manual lock. Visitor movement within the administrative area shall be monitored by the Receptionist. The Mail Supervisor shall have access to the mail/copy room.

3.3 Staff Muster

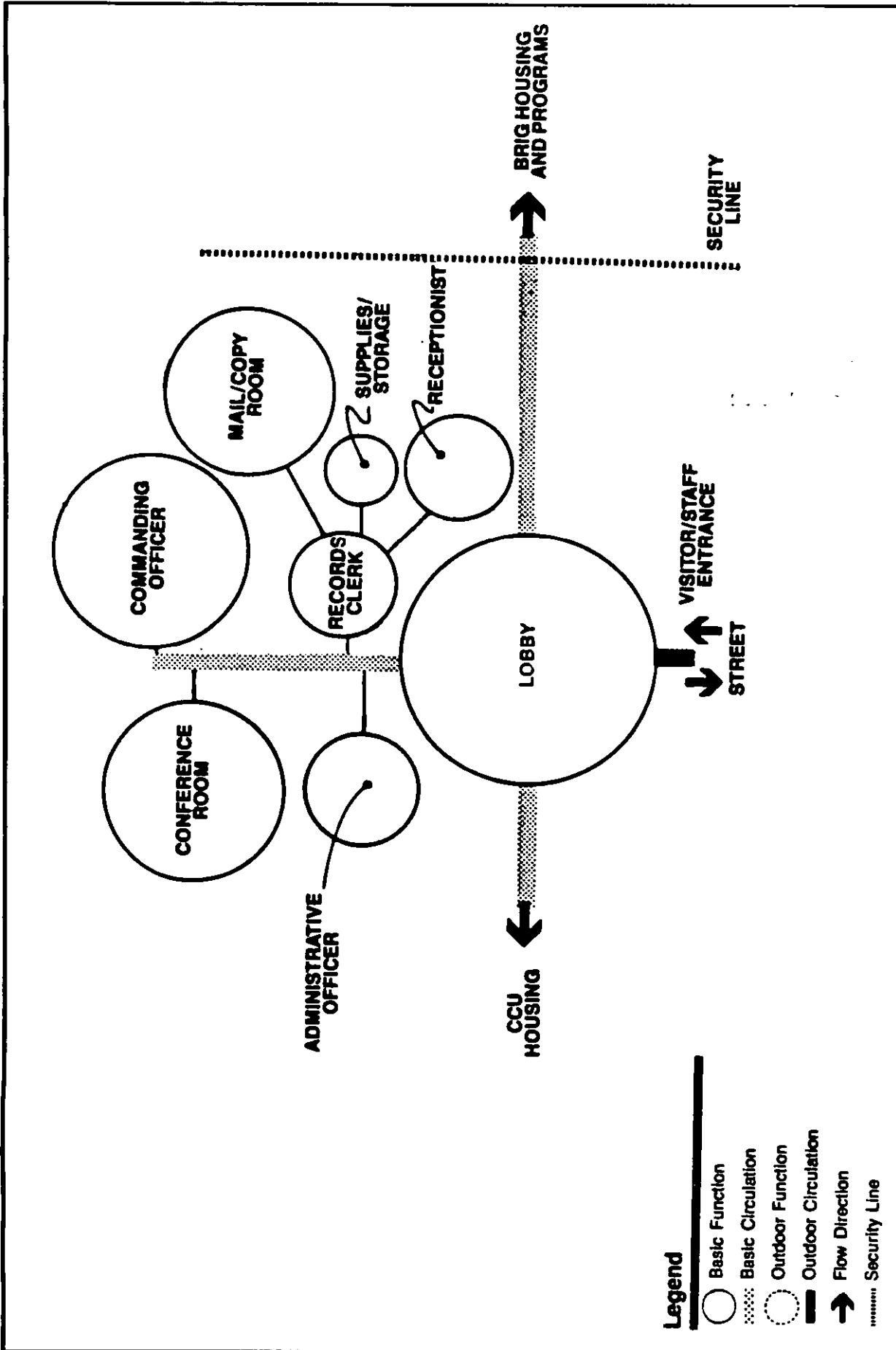
3.3.1 Access/Adjacencies. Staff support areas shall be located outside the secure perimeter of the facility, but easily accessible to staff coming on or off a shift or when taking a scheduled break. Access from the outside shall be through the Public Lobby via a controlled access system (such as a cypher combination lock system).

3.3.2 Security/Circulation. Staff support areas shall be inaccessible to prisoners.

3.3.3 User Needs. The Staff Muster area shall include a muster/training room large enough for two-thirds of the total staff at any given time, locker rooms (male and female) with lockers and separate shower and heads for male and female staff. A staff resource area shall be part of the muster/training room. The muster/training room shall be equipped with chalk board, bulletin board, movie screen, coffeemaker, microwave, small refrigerator, hot and cold water, a sufficient number of electrical outlets for required audio/visual equipment, and audio/visual storage. Seating shall consist of movable chairs with swing-arm writing surface.

3.3.4 Special Requirements, Materials, Furnishings. This area will be subjected to heavy use because it is used by transient, high-turnover staff on duty assignment. The finishes in this area shall be hard, durable and washable. Furnishings such as chairs shall be pliant plastics. Fabrics shall be avoided. Attention shall be paid to acoustic control for instructional and shift change activities.

MIL-HDBK-1037/4



- Legend**
- Basic Function
 - ⋯ Basic Circulation
 - Outdoor Function
 - ▬ Outdoor Circulation
 - ➔ Flow Direction
 - ⋯ Security Line

TITLE Administration	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 23

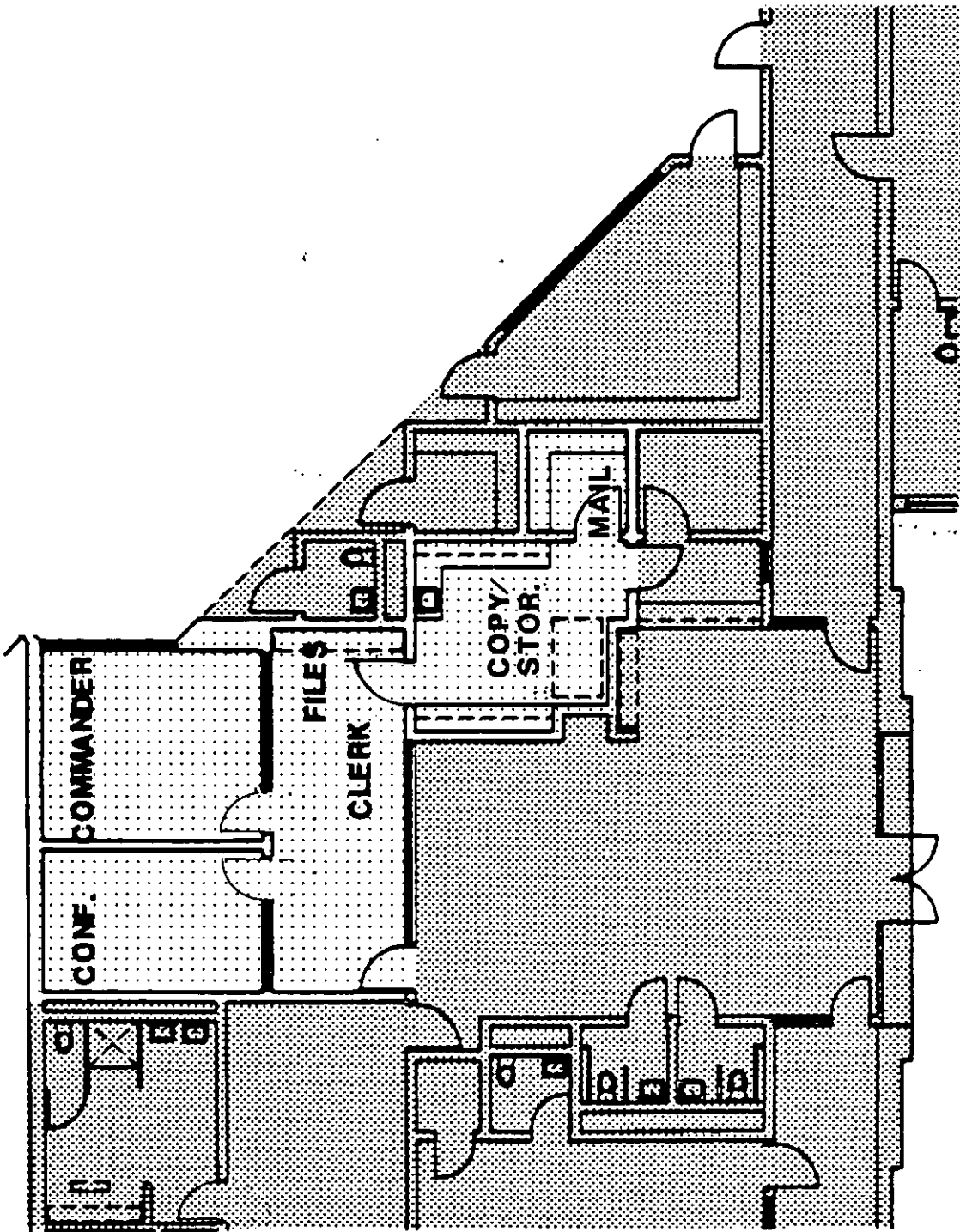
MIL-HDBK-1037/4

<u>AREA DESCRIPTION</u>	<u>PERSONS SPACE NO.</u>	<u>NUMBER PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
Receptionist	5	1	1	83		
Administrative/ Records Clerk	6	1	1	99		
Conference Room/OIC Officer	7	10	1	150		
Commanding Officer	8	1-5	1	195		
Records & Files	9			14		
Work Room/Copy Room/Supplies	10	AR	1	177		
Electrical Room	11	AR	1	60		
Mail Sorting	12	AR	1	46		
TOTAL				824	1,077	

NOTES:

TITLE Administration	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 24
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MIL-HDBK-1037/4

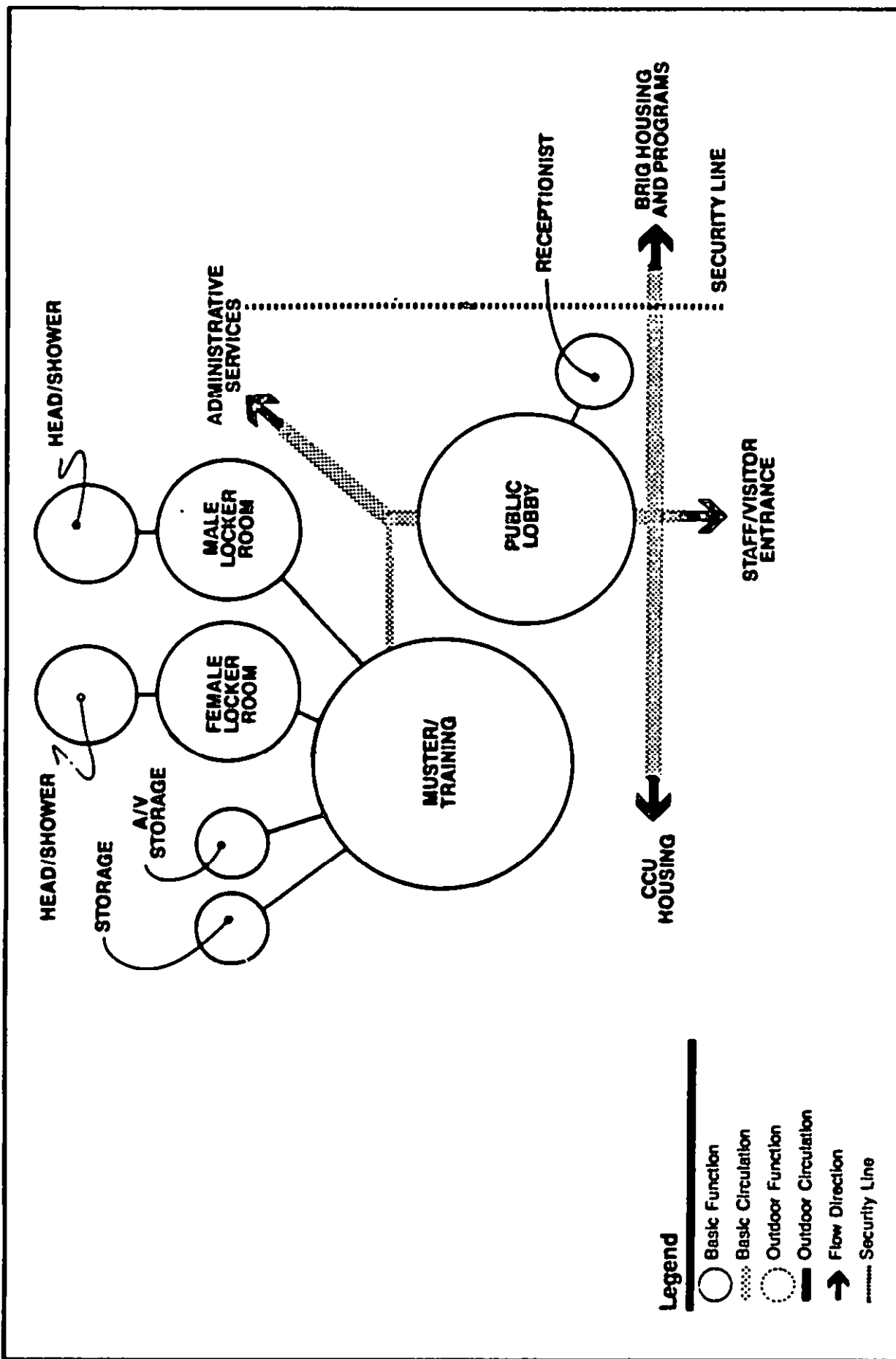


TITLE
Administration

DATE
APR. 88

CATEGORY CODE
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PLATE NO
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FACILITY PLATE NO 26	CATEGORY CODE 730-15	DATE APR. 88	TITLE Staff Muster
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MIL-HDBK-1037/4

STAFF MUSTER

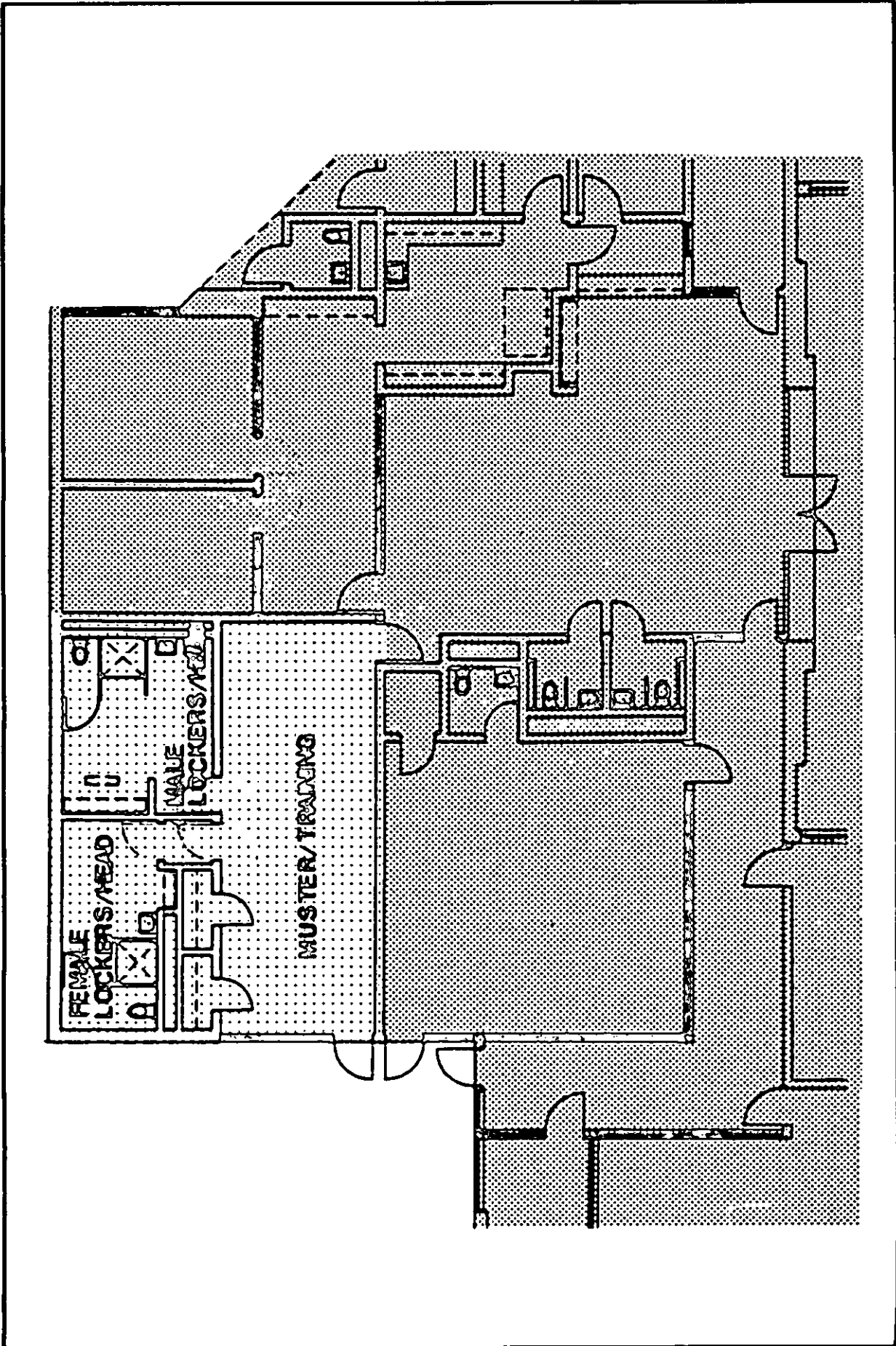
<u>AREA DESCRIPTION</u>	<u>SPACE NO.</u>	<u>PERSONS PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
Muster/Training Room	13	26	1	396		
Audio/Visual Training Materials Storage	14-15	AR	2	29		
Female Locker Rooms/ Heads & Shower	16	6	1	140		1
Male Locker Rooms/ Heads & Shower	17	AR	1	165		2
TOTAL				730	898	

NOTES:

1. Equipped with 6 lockers (2 each, three-tier units, 18 x 12 x 72 inches [457 x 305 x 1829 mm]).
2. Equipped with 38 lockers (6 each, 5-tier units, 18 x 12 x 72 inches [457 x 305 x 1829 (829 mm)]).

TITLE Staff Muster	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 27
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MIL-HDBK-1037/4



TITLE
Staff Muster

DATE
APR. 88

CATEGORY CODE
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FACILITY
PLATE NO
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MIL-HDBK-1037/4

3.4 Control Center

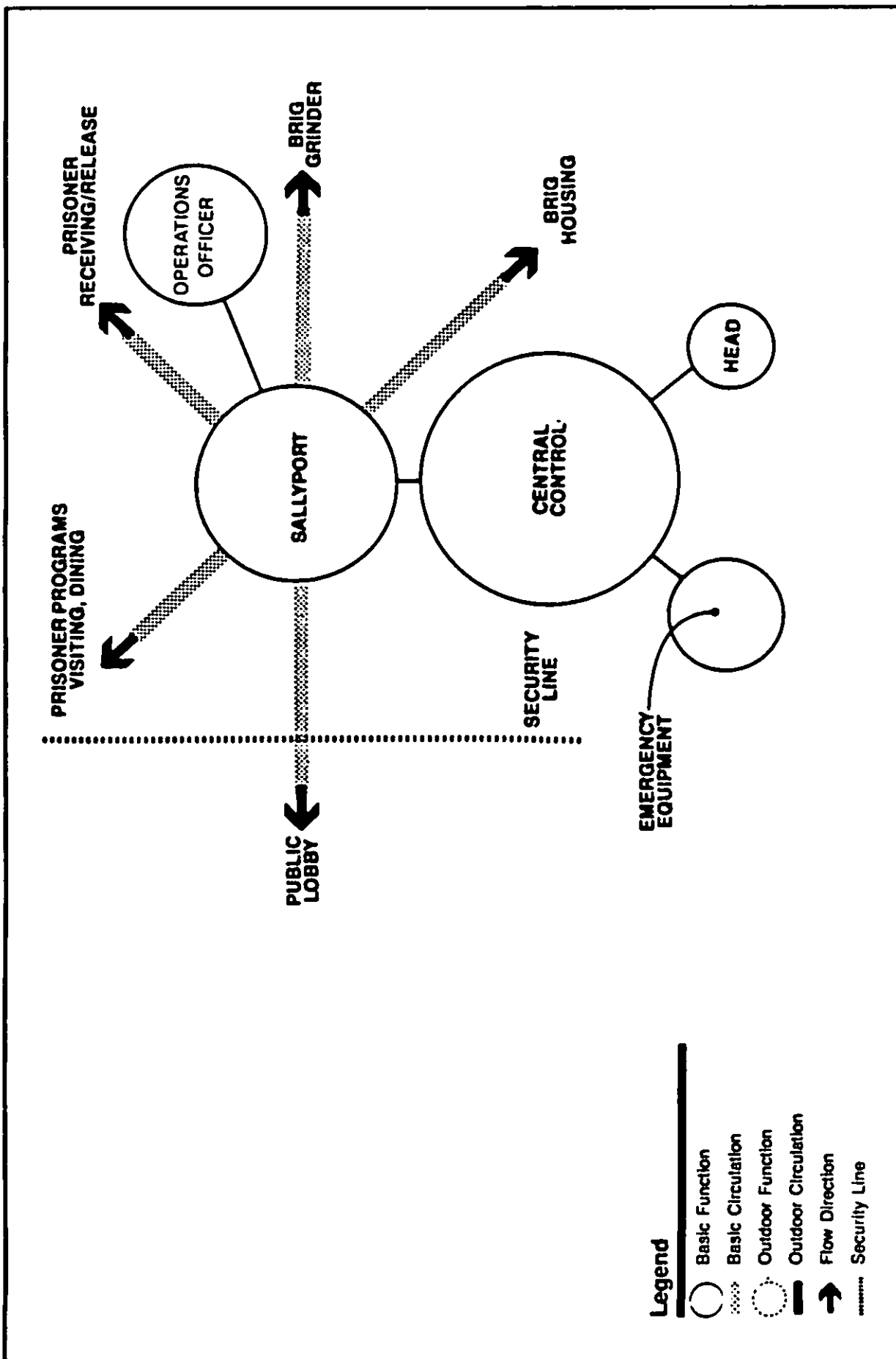
3.4.1 Policy Issues. Central Control is the main communication center and control station of the facility. It monitors and controls all ingress and egress points of the secured areas of the facility. All communications and security systems are monitored from Central Control. This area also serves as the main communications link with the "outside world" in emergency situations.

3.4.2 Access/Adjacencies. This component shall be adjacent or have convenient access to Public Lobby, Receiving and Release, Cell Blocks and Dorms, Prisoner Visiting, Multi-purpose room and Galley. The Operations Officer's Office shall be in the immediate vicinity of Central Control and located to allow quick access to the rest of the secured portion of the facility.

3.4.3 Security/Circulation. Central Control is the link between the secure and non-secure areas of the facility. Central Control shall be highly secure and its interior shall be inaccessible to the prisoner population at all times.

3.4.4 User Needs. Central Control shall have communication/emergency/locking panel equipment, as well as a bank teller-type security drawer for dispensing/collecting radios and keys at shift changes. The control room shall provide secure cabinet storage for restraining devices, flashlights, keys and space for two-way radio storage and recharging. Central Control shall have communication systems that allow it to electronically communicate with all sections of the facility. It is also required that Central Control be able to communicate directly, without electronic devices, with the adjacent corridor. Central Control is to be provided with its own head and water closet. Central Control shall be air conditioned. The interior of Central Control shall be designed as shown by Facility Plate No. 30.

3.4.5 Special Requirements, Materials, Furnishings. This area shall be glazed and situated to have visual control over all secured perimeter spaces that are subjected to prisoner population domination. Those spaces are: Cell Blocks and Dorms, Receiving/Release, Multi-Purpose room, and the prisoners' outdoor grinder. Access from unsecured areas to areas under the visual and operative supervision of Central Control shall be accomplished by means of sally ports. Central Control shall have an independent ventilation system.



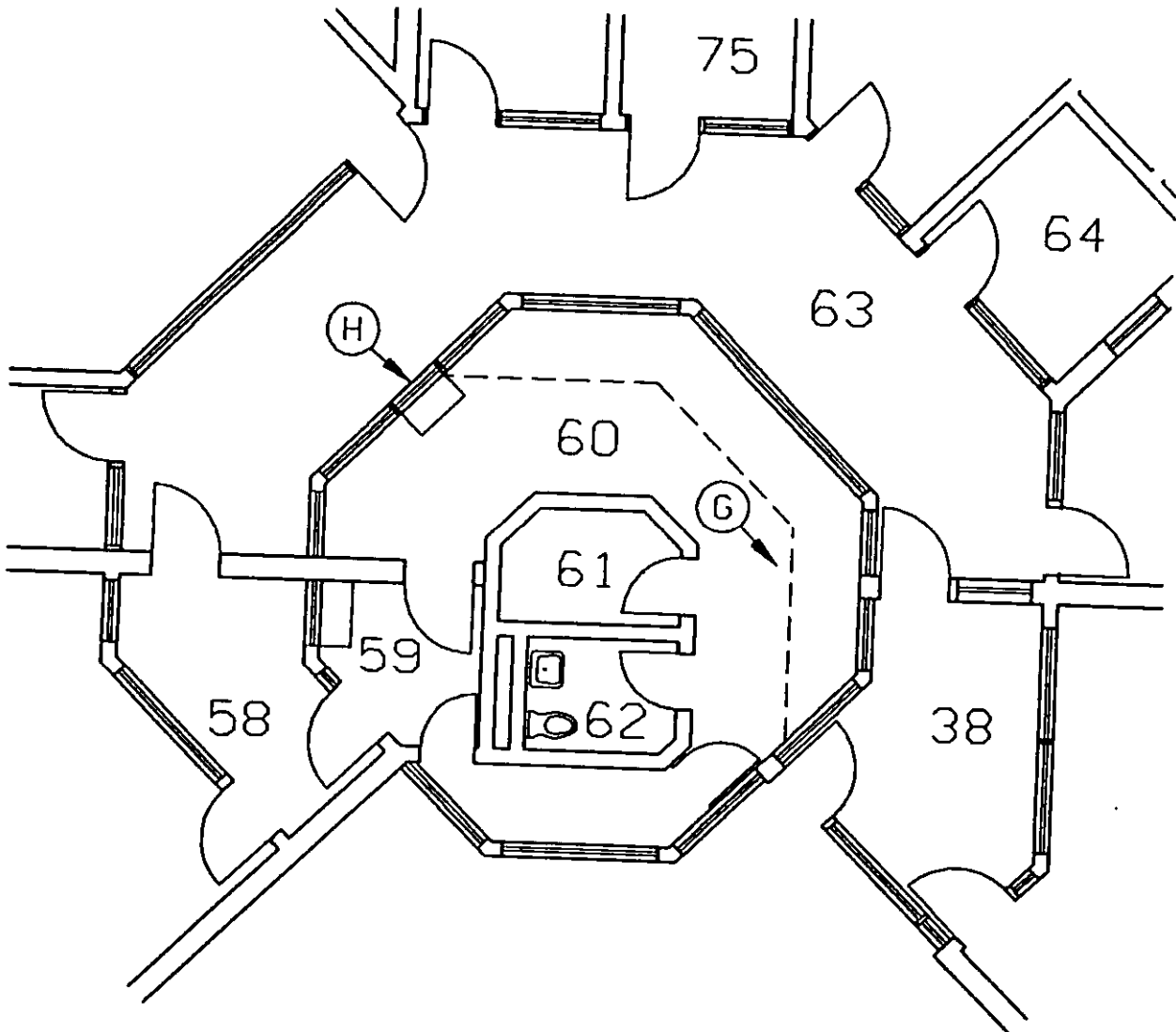
TITLE
Control Center

DATE
APR. 88

CATEGORY CODE
730-15

FACILITY PLATE NO
29

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Note:

Run walls of Central Control to underside of roof deck or provide concrete slab over Central Control similar to slab over cells.

TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Central Control	APR. 88	730-15	30

MIL-HDBK-1037/4

CONTROL CENTER

<u>AREA DESCRIPTION</u>	<u>PERSONS SPACE NO.</u>	<u>NUMBER PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
Observation Room	59	AR	1			1
Central Control	60	AR	1	263		2
Emergency Equipment Closet	61	AR	1	38		3
Head	62	1	1	33		
Secured Corridor	63	AR	1			
Operations Officer	64	1-3	1	72		1
TOTAL				406	478	

NOTES:

1. Square footage in building gross.
2. Includes wall-mounted key cabinet, fire alarm panel and counter-mounted communications equipment and locking control devices.
3. Includes radio storage.

TITLE

Control Center

DATE

APR. 88

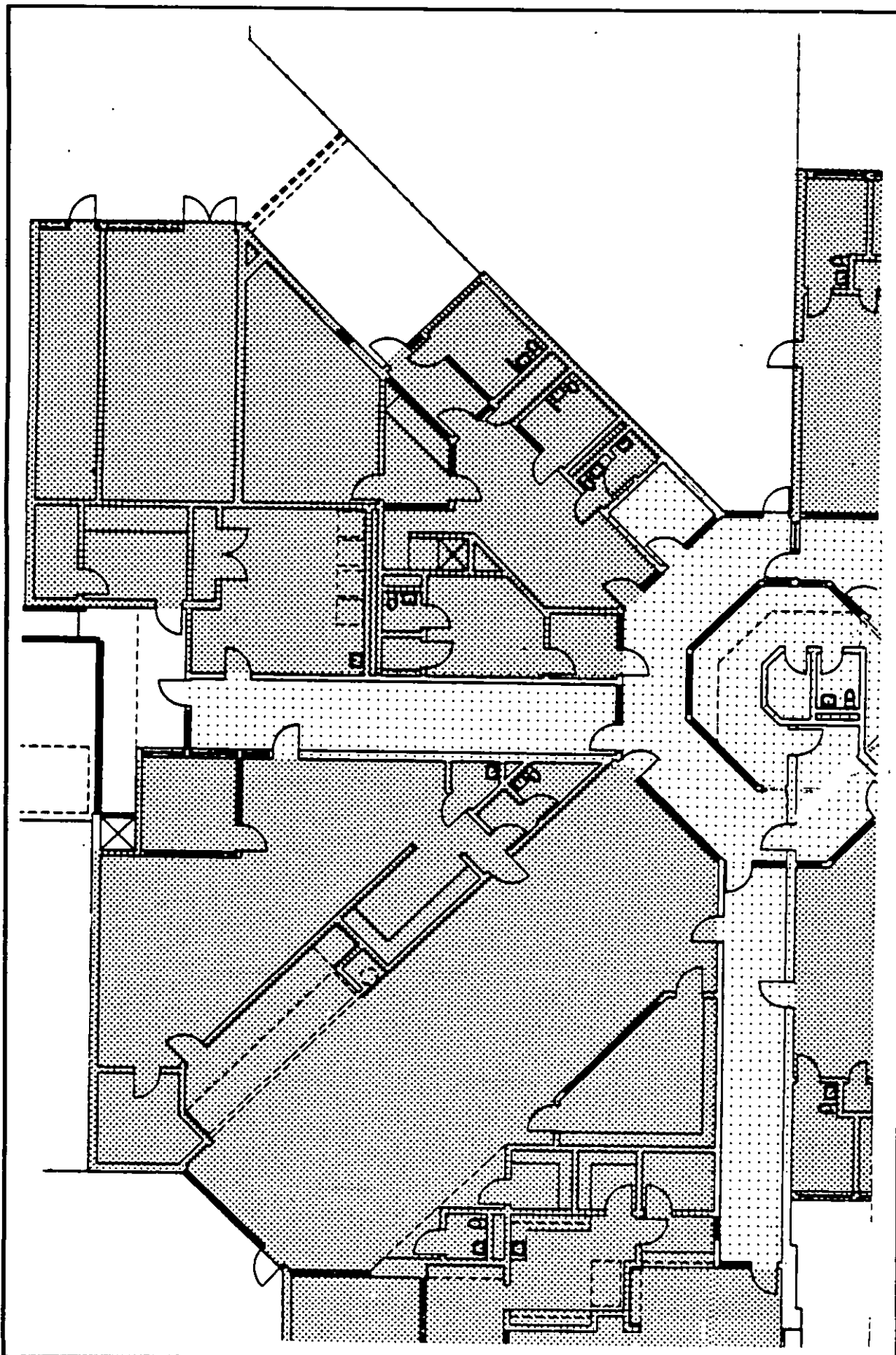
CATEGORY CODE

730-15

FACILITY
PLATE NO

31

MIL-HDBK-1037/4



FACILITY
PLATE NO
32

CATEGORY CODE
730-15

DATE
APR. 88

TITLE
Control Center

MIL-HDBK-1037/4

3.5 Prisoner Visiting

3.5.1 Access/Adjacencies. Access to the visiting area will be via a secure corridor located between the Public Lobby and the prisoner visiting room, which is to be located within the secure perimeter.

The attorney/client visiting room shall be efficiently accessible from the Public Lobby and housing areas, but within the security perimeter.

3.5.2 User Needs. The contact visiting area shall contain comfortable seating arranged to maximize conversational privacy. Low tables and chairs shall be provided and arranged for 1 to 3 visitors per prisoner/awardee. No head facilities shall be accessible in the contact visiting room during visiting hours.

The attorney visiting room shall contain a table and sufficient seating for 2 to 3 persons.

3.5.3 Special Requirements, Materials, Furnishings. Finishes shall be acoustically treated, yet hard enough to prevent contraband problems. Central Control shall have complete visual supervision into this area and be able to control movement to and from the visiting unit.

3.6 Receiving/Release

3.6.1 Access/Adjacencies. Access to Receiving/Release shall be direct from a controlled vehicular entrance observable by Central Control and assigned staff. The intake holding cells (initial group and clean group) shall be readily accessible to all processing functions. Spaces within this area shall be located to enhance the quick, efficient and safe processing of prisoners. The specific location of each area shall parallel the actual steps which occur in the admission and release process.

a) New admissions may be strip-searched, booked and initially classified. Pretrial confinees and prisoners staying overnight shall be required to shower, given institutional clothing and linens and moved into their assigned housing areas. All female admissions must be transferred to the female housing unit.

b) Prisoners going to and returning from courts shall not disrupt the admissions process. Prisoners returning from court shall pass through the processing area before going to their respective housing unit. Releases or transfers shall be processed through Receiving/Release and shall be able to claim their personal property immediately upon release.

3.6.2 User Needs. Receiving/Release shall contain a weapons locker to be utilized by base security or the apprehending officer, clean and initial holding areas (provided with a built-in bench), booking station, a strip-search alcove located in shower, prisoner property storage/issue, clothing and linen storage, personal hygiene items issue area, and shower/drying/issue area. Property storage and office area shall contain a safe, (TL-15 type), desk, chair, and a computer terminal for data entry. A lockable drop box shall be provided for prisoner valuables when the valuables custodian is not present.

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3.7 Prisoner/Awardee Housing

3.7.1 Policy Issues. Awardee and prisoner housing shall be organized to provide for the classification of individuals into separate living units. Housing units shall be planned so that adequate housing can be provided for the large classification categories (sentenced and CCU), as well as smaller or special classification categories (female, pretrial, and high security risks).

CCU and prisoner housing shall be designed to provide maximum separation of the two populations during daily activities.

The facility's design shall promote the possible division of the prisoners into small, separate housing units. Housing unit size shall correspond to the various classification categories.

3.7.2 Access/Adjacencies. The housing units shall be located to minimize circulation routes to prisoner program and support areas. Housing units shall have limited and monitored access to other areas of the facility. The housing units shall have direct access to an individual/group shower area, lavatory and head area, dayroom and dining area (if applicable).

Counselor offices shall be adjacent to and easily accessible from each housing unit.

CCU awardees' access to and from their housing area will be supervised by staff. Security hardware and equipment shall not be used to control access to the CCU housing area. Such access shall include work programs, heads and showers and the activity/multi-purpose room.

3.7.3 Security/Circulation. The housing units shall be away from main circulation areas of the facility. Pretrial, bread and water, and female prisoners shall be housed in individual cells. The sentenced and CCU populations shall have a less restrictive, dormitory or barracks type environment. Individually secured lockers shall be positioned next to each sleeping area.

Housing unit staff shall be provided with radio communications to Central Control.

A watchtour system shall be installed in the cell blocks. It shall be designed and implemented to guarantee that prisoners are checked at specific time intervals.

3.7.4 User Needs. The cell blocks shall all be individual cells with exterior windows and be 80 net square feet (NSF). There will be adequate plumbing chases, hot and cold running water in each cell, toilet, bed, desk or writing surface, lockers, chair or stool, natural light and appropriate levels of air circulation, temperature, lighting and noise control.

In the multiple occupancy dormitory rooms (CCU and Dorm A), access must be provided to heads, lavatories, drinking water, shower facilities, hot and cold running water, individual lockers and writing surfaces, appropriate levels of air circulation, temperature, lighting and noise control are provided, as well as a bed for each prisoner.

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All housing units shall include dayroom space that provides for passive group and active individual indoor recreation, clothes ironing and folding, and TV/reading area.

The CCU housing unit shall have a dining area with tables and seats that can be used for dining and table games. Furnishings in these spaces shall be similar to conventional bunks which are not secured to the floor and are of commercial grade.

MIL-HDBK-1037/4

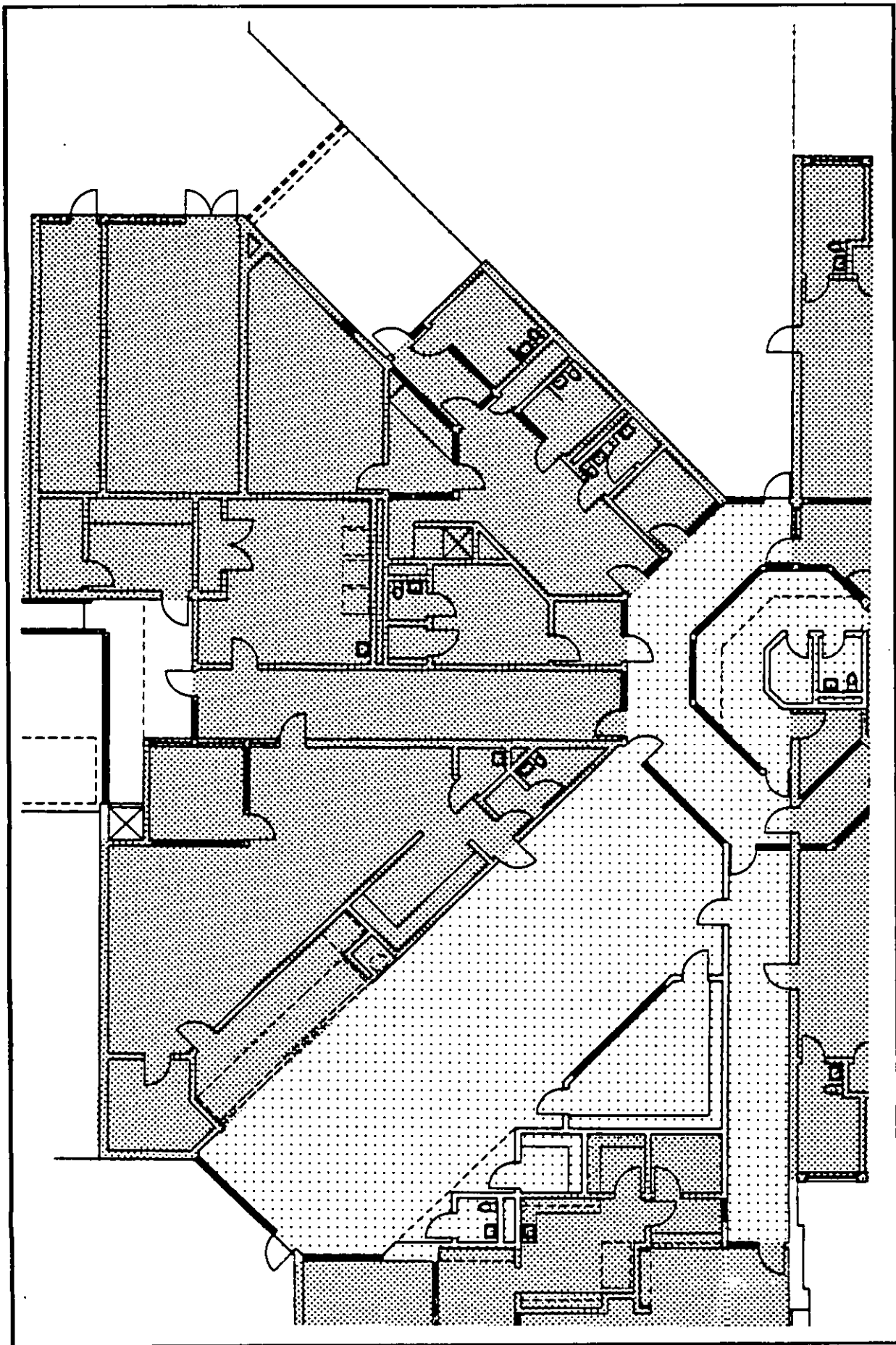
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Multi-Purpose Room/ (Contact Visiting/ Prisoner and Staff Dining)	98	60	1	1,150		
Library/Intake Review Room (Attorney/C.O. Visiting/Self-Study)	99	AR	1	243		1
Total				1,393	2,113	

NOTES:

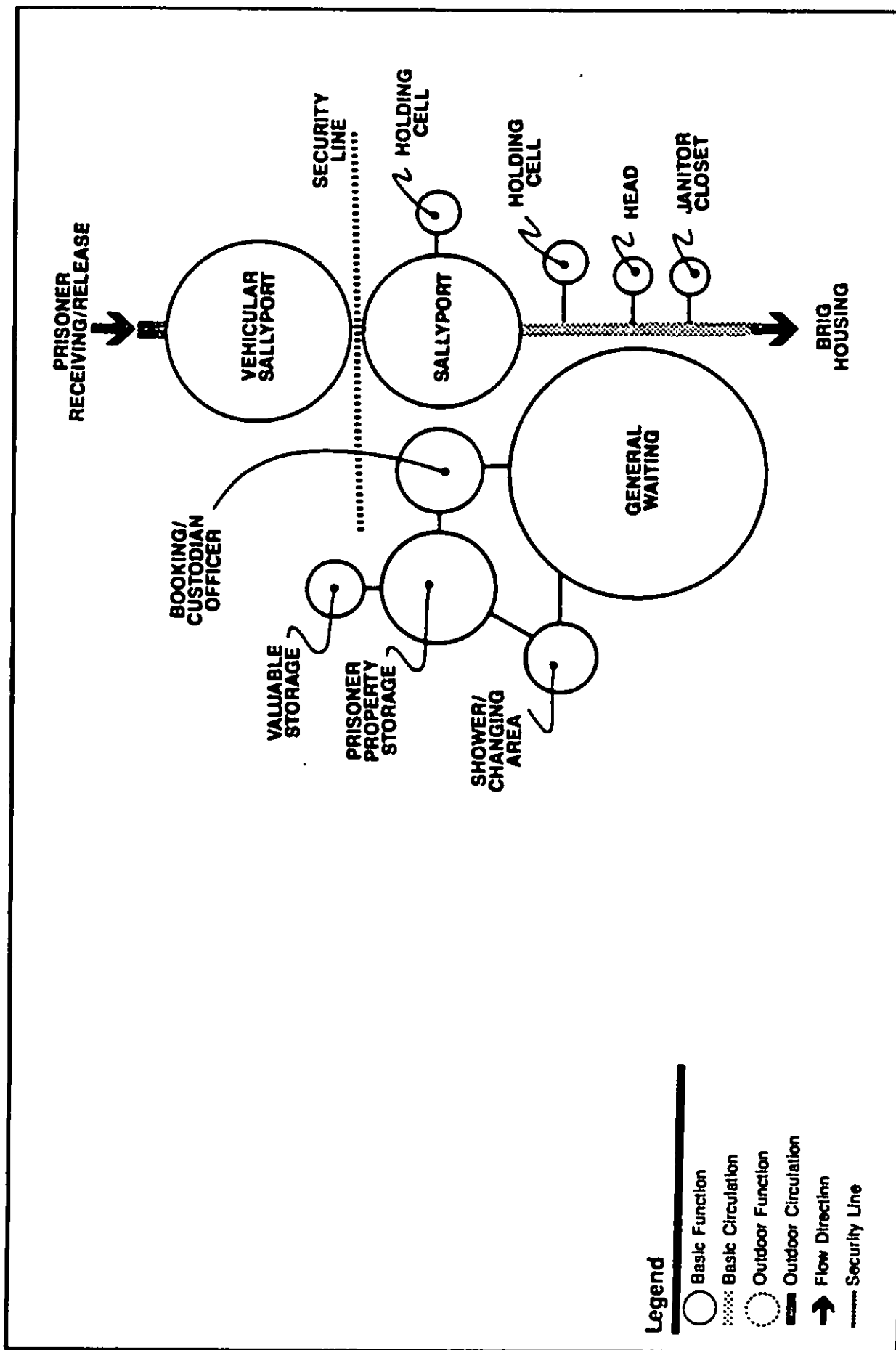
1. Located in Library

TITLE Prisoner Visiting	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 34
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MIL-HDBK-1037/4



FACILITY PLATE NO 35	CATEGORY CODE 730-15	DATE APR. 88	TITLE Prisoner Visiting
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- Legend**
- Basic Function
 - ⋯ Basic Circulation
 - Outdoor Function
 - ▬ Outdoor Circulation
 - ➔ Flow Direction
 - ⋯ Security Line

TITLE Receiving Release	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 36

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RECEIVING/RELEASE

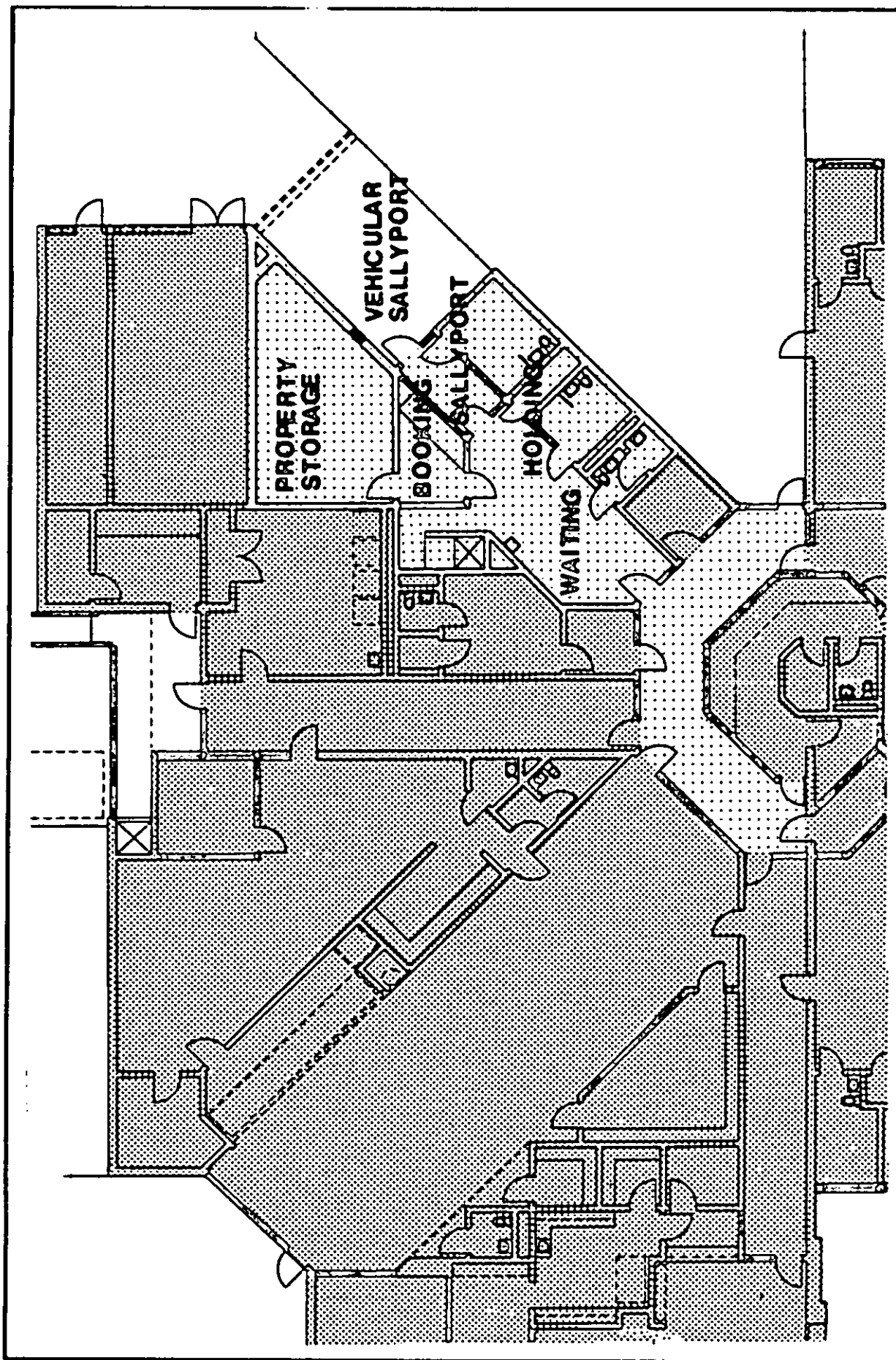
<u>AREA DESCRIPTION</u>	<u>PERSONS SPACE NO.</u>	<u>NUMBER PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
Intake Waiting	65	10	1	278		
Staff Head	66	1	1	25		
Janitor's Closet	67	1	1	18		
Holding Cell	68	1-5	1	65		2
Holding Cell	69	1-5	1	95		2
Sallyport	70	2-3	1	66		
Vehicular Sallyport	71	AR	1	(352)		1
Receiving/Released Supervisor	72	1-2	1	83		3
Shower	73	1	1	66		
Property/Seabag Storage	74	1-2	1	357		4
TOTAL				1,053	1,386	

NOTES:

1. The outdoor vehicle entrance is large to accommodate a van. This net square footage is not calculated in building grossing factor.
2. Initial and clean holding cells will be equipped with toilet and sink.
3. The work area should be equipped with processing/data entry equipment.
4. Provide a minimum 9 square feet valuable storage safe with night drop.

TITLE Receiving/Release	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 37
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MIL-HDBK-1037/4

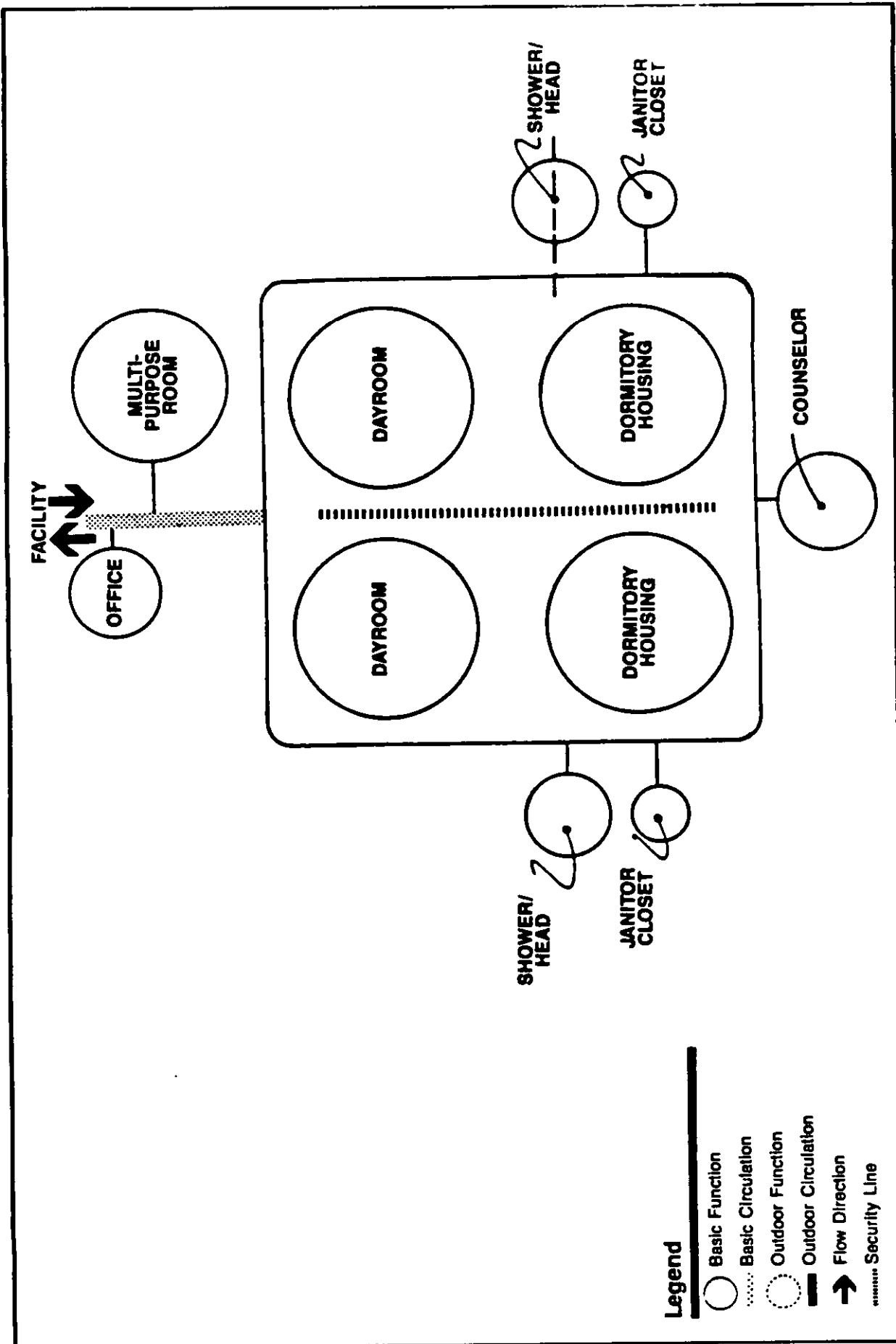


TITLE
Receiving/Release

DATE
APR. 88

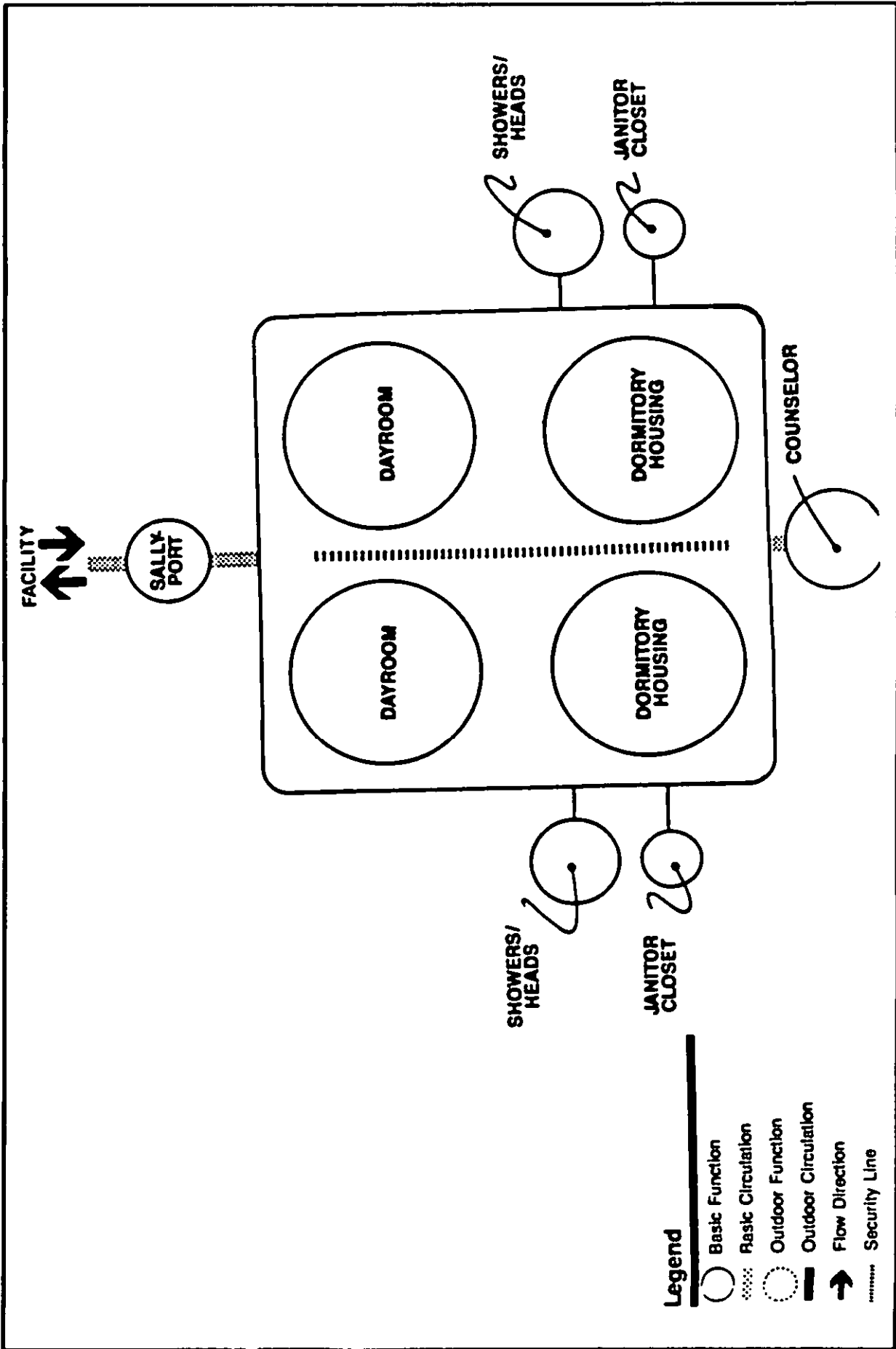
CATEGORY CODE
730-15

FACILITY
PLATE NO
38



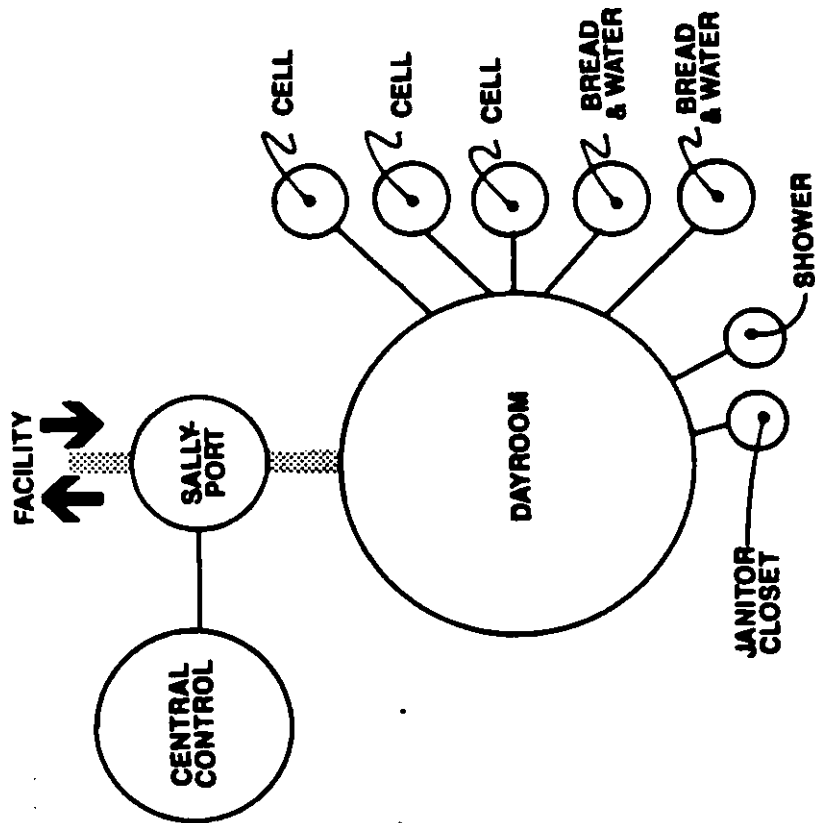
TITLE Awardee Housing/Programs (CCU)		DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 39
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MIL-HDBK-1037/4



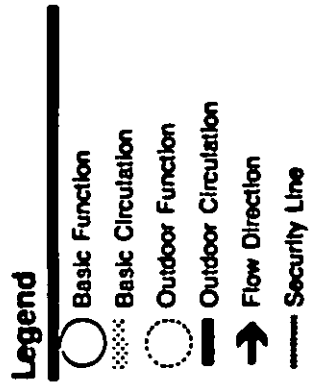
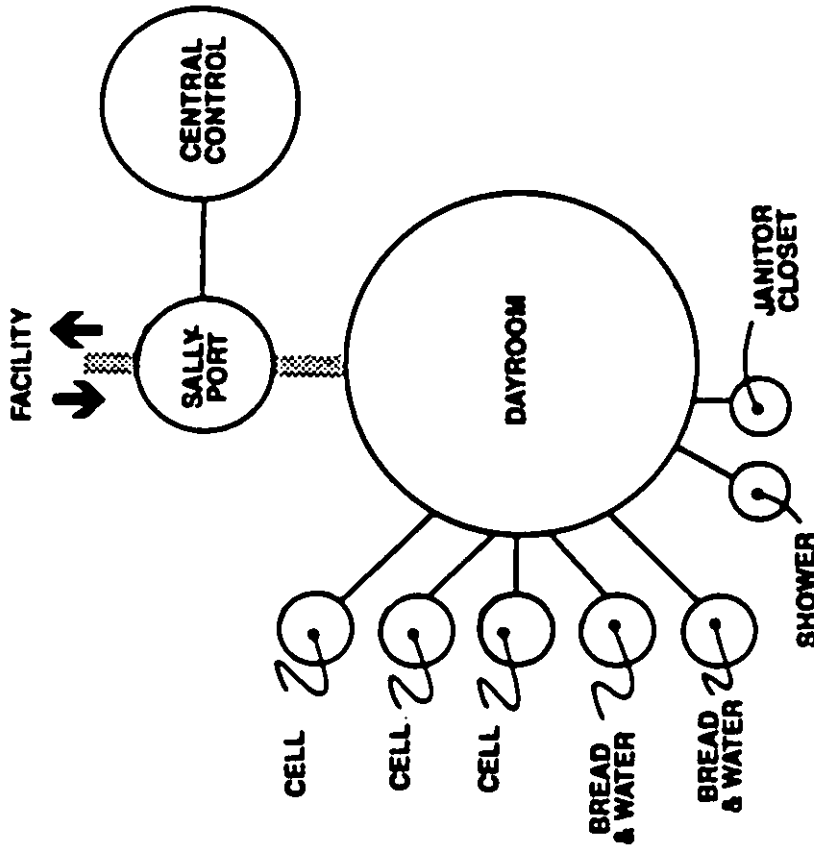
FACILITY PLATE NO	40
CATEGORY CODE	730-15
DATE	APR. 88
TITLE	Dorm A

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- Legend**
- Basic Function
 - ⋯ Basic Circulation
 - Outdoor Function
 - ▬ Outdoor Circulation
 - ➔ Flow Direction
 - ⋯ Security Line

<p>TITLE Cell Block A (Male)</p>	<p>DATE APR. 88</p>	<p>CATEGORY CODE 730-15</p>	<p>FACILITY PLATE NO 41</p>
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TITLE
Cell Block B (Female)

DATE
APR. 88

CATEGORY CODE
730-15

FACILITY PLATE NO
42

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<u>AREA DESCRIPTION</u>	<u>PERSONS SPACE NO.</u>	<u>NUMBER PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
MULTI-PURPOSE						
Multi-purpose	18	24	1	552		
Staff Head	19	1	1	30		
Storage	20	AR	1	22		
Staff Office	22	1-3	1	84		
Subtotal				688	755	
CCU 2						
Dayroom	23	5	1	175		
Dormitory	24	5	1	300		
Janitor's Closet	25	AR	1	20		
Head	26	1	1	20		
Shower	27	1	1	25		
Subtotal				540	920	
CCU 1						
Shower	28	1	1	25		
Head	29	1	1	20		
Janitor's Closet	30	AR	1	20		
Dormitory	31	8	1	540		
Counselor's Office	32	2-4	1	116		
Dormitory	33	12	1	960		
Heads	34	1	2	40		
Showers	35	1	2	50		
Janitor's Closet	36	AR	1	20		
Dayroom	37	20	1	875		
Subtotal				2,666	3,721	
DORM A						
Dayroom	43	13	1	445		
Dormitory	44	13	1	1,040		
Heads	45	1	2	40		
Showers	46	1	2	50		
Janitor's Closet	47	AR	1	20		
Counselor's Office	48	2-4	1	116		
Dormitory	49	12	1	960		
Janitor's Closet	50	AR	1	20		
Heads	51	1	2	40		
Showers	52	1	2	50		
Dayroom	53	12	1	420		
Subtotal				3,201	5,760	

TITLE

Housing

DATE

APR. 88

CATEGORY CODE

730-15

FACILITY
PLATE NO

43

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<u>AREA DESCRIPTION</u>	<u>PERSONS SPACE NO.</u>	<u>NUMBER PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
<u>Cell Block A (Male)</u>						
Sallyport	38	1	1	52		
Dayroom	39	5	1	400		
Cells	40	1	4	320		1
High Security Cell	40A	1	1	80		
Shower	41	1	1	51		
Janitor's Closet	42	AR	1	22		
Total				925	1,627	

Notes:

1. Cells for pretrial, females and bread and water prisoners are each equipped with a toilet and sink, writing surface/desk, chair, small storage area (lockers), mirror and clothing hook(s).

TITLE Housing	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 44
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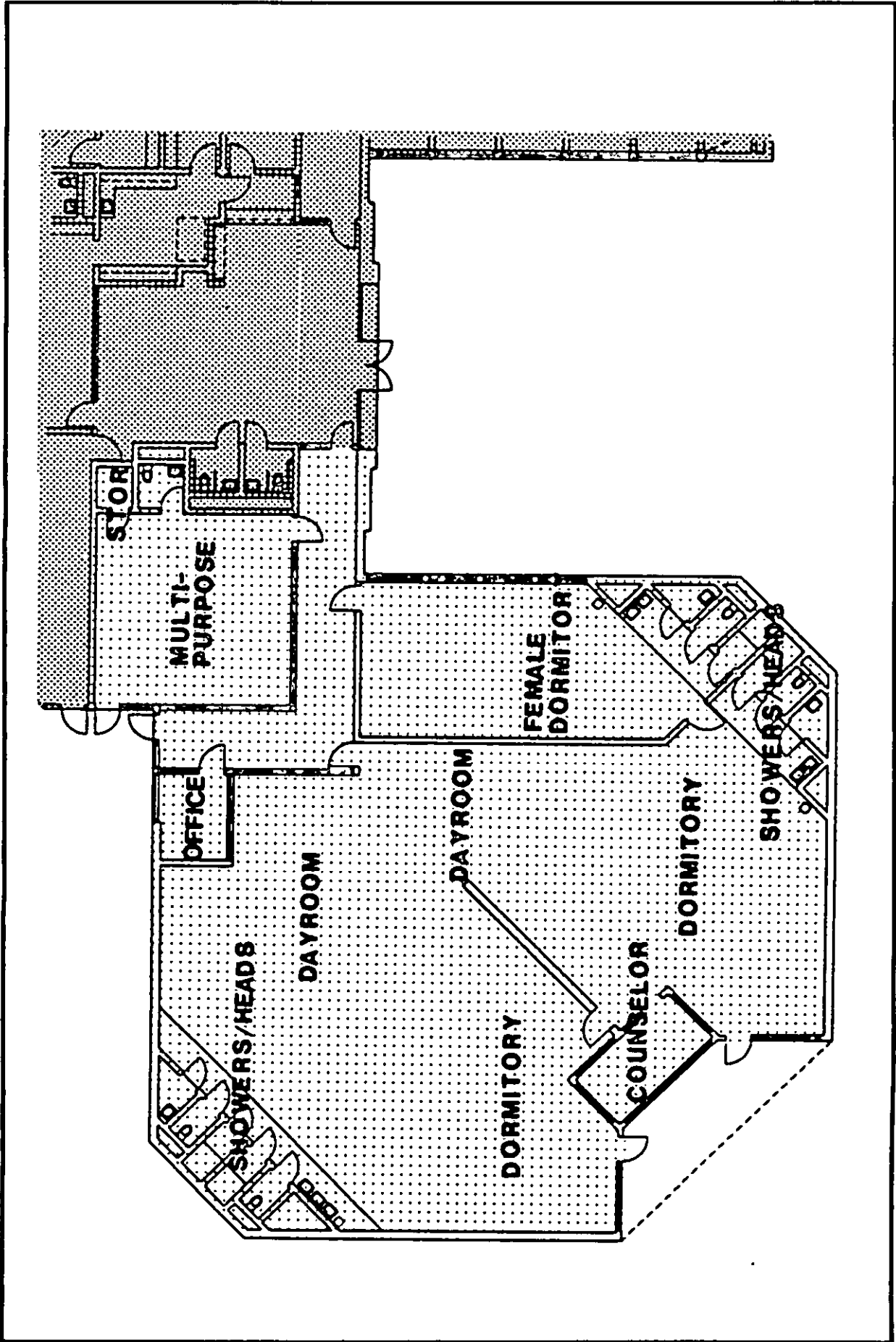
MIL-HDBK-1037/4

<u>AREA DESCRIPTION</u>	<u>PERSONS SPACE NO.</u>	<u>NUMBER PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
<u>CELL BLOCK B (FEMALE)</u>						
Janitor's Closet	54	AR	1	22		
Shower	55	1	1	51		
Cells	56	1	4	320		
High Security Cell	56A	1	1	80		
Dayroom	57	5	1	400		
Sallyport	58	AR	1	48		
Subtotal				921	1,685	

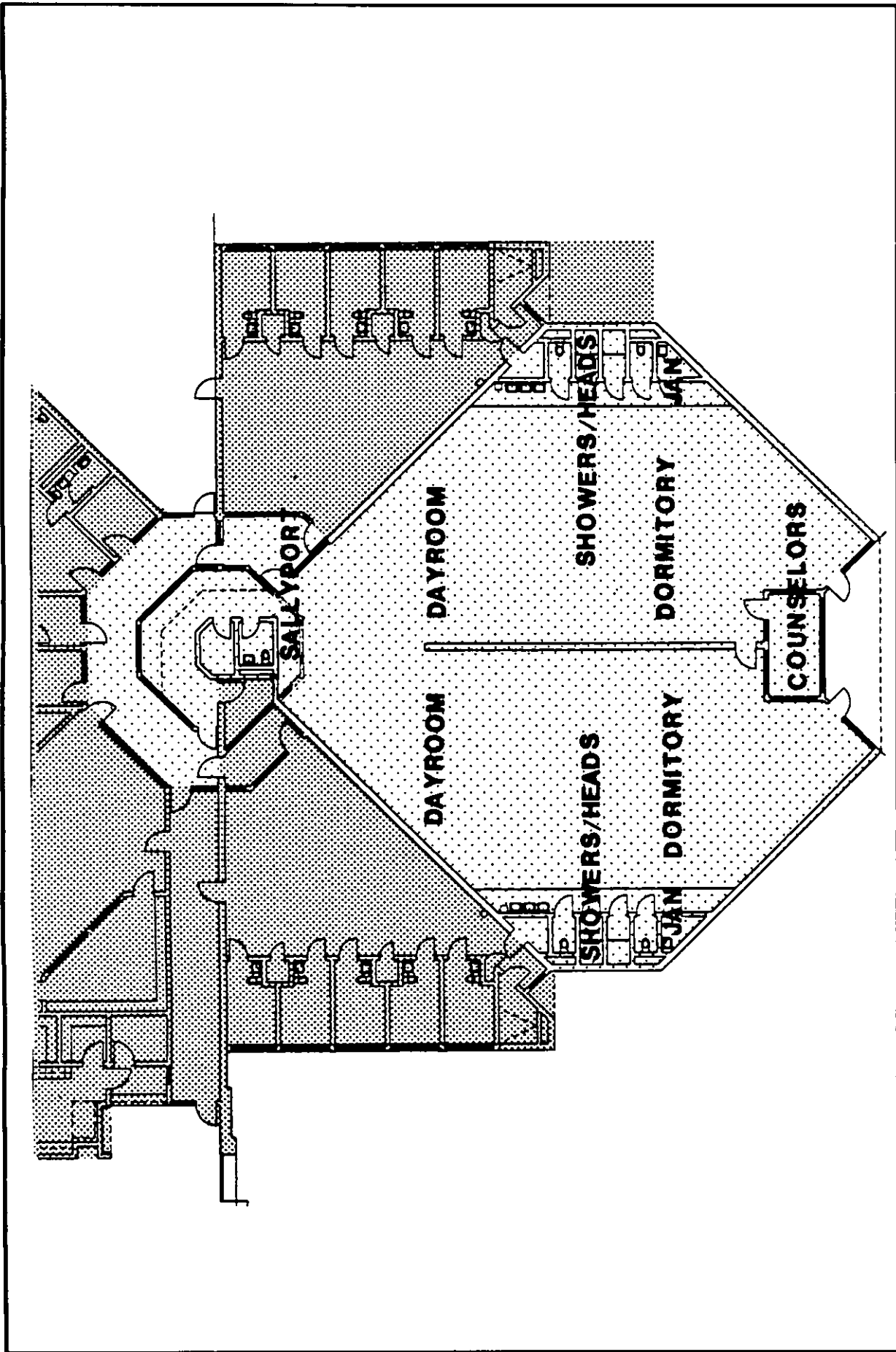
TOTAL

NOTES:

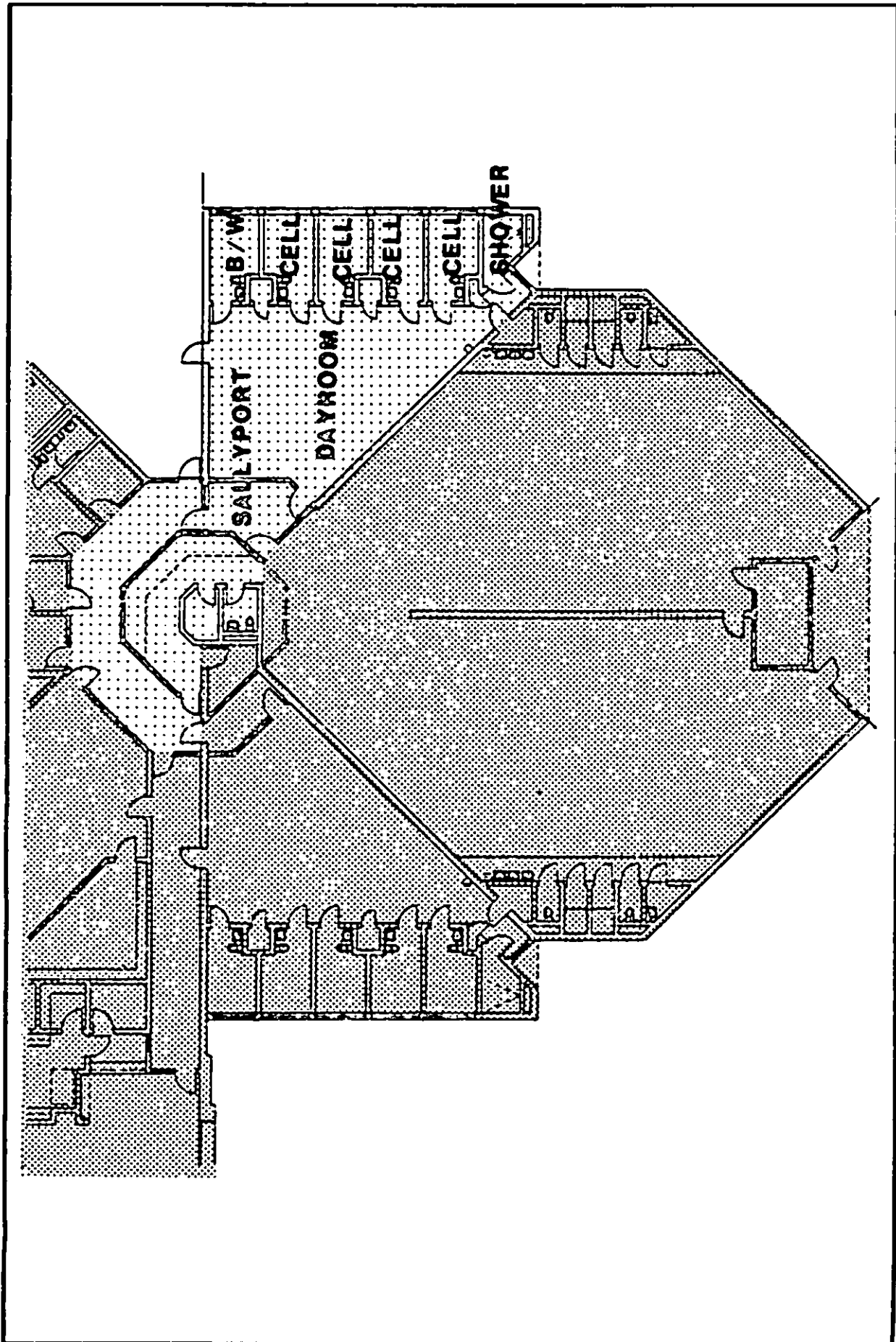
TITLE Housing	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 45
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TITLE Awardee Housing/Programs (CCU)	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 46
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TITLE Dorm A	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 47
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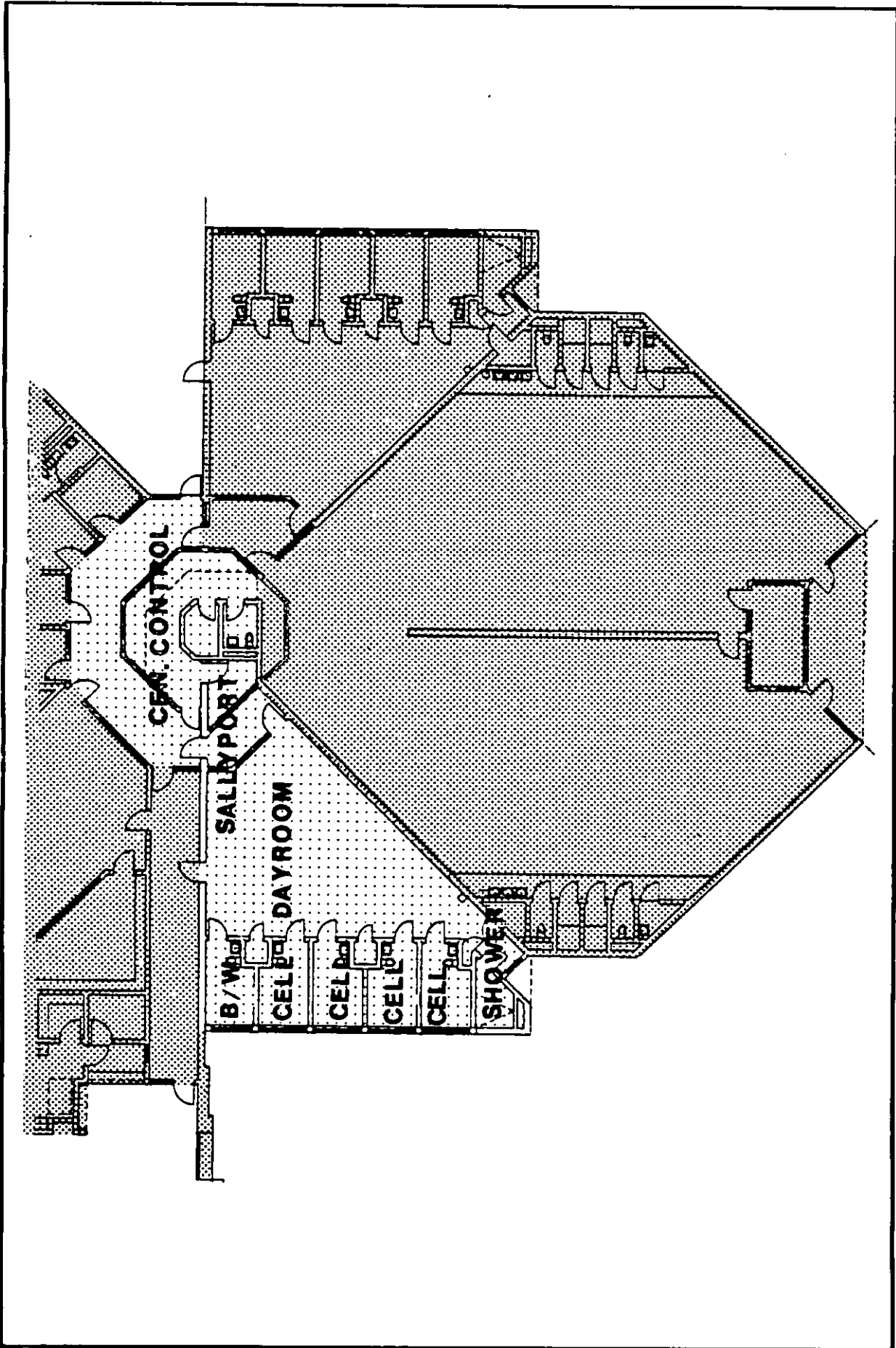


FACILITY
PLATE NO
48

CATEGORY CODE
730-15

DATE
APR. 88

TITLE
Cell Block A (Male)



FACILITY PLATE NO 49	CATEGORY CODE 730-15	DATE APR. 88	TITLE Cell Block B (Female)
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3.8 Prisoner Programs

3.8.1 Policy Issues. All prisoners shall have access to programs suitable to their educational level, skills, interests and religious preferences. Space shall be provided for educational, vocational and recreational activities. In addition, space shall be provided for library, legal, counseling, and religious activities.

3.8.2 Access/Adjacencies. The program component shall be adjacent and efficiently accessible to the housing areas.

Some scheduled programs will occur in the dayroom area of the housing units or in the Mess Deck area.

3.8.3 Security/Circulation. Movement within the program areas shall be as free as possible. Movement into and out of these areas shall be carefully monitored by Central Control and escort officers (if required). Proper scheduling of program activities shall prevent various prisoner categories from audio and visual contact with each other in respective activity areas.

3.8.4 User Needs. Appropriate space, furnishings, and equipment shall be provided for educational, vocational, and recreational activities. Movable furnishings and equipment shall be provided for those programs occurring in multi-purpose areas. Counseling rooms shall enable undisturbed and private conversation to take place.

3.8.5 Special Requirements, Materials, Furnishings. All of the prisoner program architectural requirements are conducive to a learning environment with an emphasis on acoustics. Space designs shall emphasize clear sight lines.

3.9 Prisoner Programs (Educational)

3.9.1 Policy Issues. The educational program component includes a multi-purpose classroom and ancillary support space and equipment.

3.9.2 Access/Adjacencies. The education component shall be located near the awardee and prisoner housing areas.

3.9.3 Security/Circulation. Awardees and prisoners shall have controlled access to the educational area. Provisions within the educational component shall be made for the visual surveillance of the classroom area, as well as the secure storage of training aids, such as audio/visual equipment and other electronic equipment.

3.9.4 User Needs. Facility education areas shall be equipped with swing-arm chairs, blackboard(s), bulletin board(s), lectern, required audio/visual equipment and storage area, and supplies storage area.

Head facilities shall be provided adjacent to or near the educational/multi-purpose area.

3.10 Prisoner Programs (Library)

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3.10.1 Policy Issues. A small library shall be provided to serve the entire facility. It shall be utilized as a major component in a facility's educational program. Awardees and prisoners shall be allowed to utilize the library area as a quiet reading and self-study area.

Provisions shall be made for prisoners to receive books, magazines and other reading material not available at the facility library. A bookmobile operation from the Navy Base Library or an interlibrary loan arrangement with other libraries could fill this need.

3.10.2 Access/Adjacencies. The library area shall provide convenient access to both the awardee and prisoner population and the staff. It shall be located in close proximity to all awardee and prisoner housing areas. The library area (located in attorney/reading room) shall be adjacent to educational services (located in multi-purpose room).

3.10.3 Security/Circulation. Awardees and prisoners shall have controlled access to the library area. Movement within the library area shall be as free as possible. When individuals are in the library area, they shall be under the supervision of Central Control and assigned staff.

3.10.4 User Needs. The library component shall be located in a quiet area. Study table(s) with chairs shall be provided.

3.11 Prisoner Programs, Independent Review Officer (IRO)

3.11.1 Policy Issues. The purpose of the IRO's Hearing is to determine whether or not the confinee needs to be held further in pretrial confinement. By being conducted within the brig, the Hearings are a benefit to the confinees.

3.11.2 Access/Adjacencies. Space within the library shall be designated for the IRO's Hearing. Central Control will notify the pretrial confinee when to proceed to the hearing room.

3.11.3 Security/Circulation. The pretrial confinee will be closely observed by Central Control staff while moving to and from the hearing. The hearing room (library) shall be visually supervised by Central Control. A brig staff member will normally be present to supervise the IRO's Hearing.

3.11.4 User Needs. Furnishings shall include a table and a chair for the magistrate, a table and up to two chairs for the accused's Commanding Officer or his/her representative and his/her legal counsel. Recording equipment shall be available and able to be accommodated, if required.

3.12 Prisoner Programs (Religious Services)

3.12.1 Policy Issues. This Mess Deck area shall be used for multi-faith religious services and related activities. All individuals shall be permitted to participate in religious workshop and other religious activities. Sufficient space shall be provided for individuals who wish to participate in congregate religious activities. Space shall be provided for individual counseling in the attorney visiting area (library).

3.12.2 Access/Adjacencies. Space designated for group religious services shall be efficiently accessible to the various housing areas. Group religious services shall take place in the Mess Deck area.

3.12.3 Security/Circulation. Movement within the religious service areas shall be as free as possible. Movement into and out of this area shall be carefully monitored.

3.12.4 User Needs. The religious services area shall be in a quiet location in the facility. Appropriate furnishings, religious symbols and other approved religious items (such as Bibles) shall be permitted in this area. Sufficient space shall be provided for religious articles storage. Seating shall be provided for up to 30 prisoners.

3.13 Prisoner Programs (Brig Industry)

3.13.1 Policy Issues. There shall be two types of brig industry programs. One consists of a closely supervised work-release program. This program allows the CCU or prisoner to work outside of the brig with a base command which has requested awardee or prisoner services. The other brig industry program pertains to a brig operation developed and designed specifically for a particular brig's location, as well as the base's requirements.

3.13.2 Access/Adjacencies. The industry program, if located within the brig compound, shall be located in an adjacent structure. Access to this structure shall be strictly monitored and limited to assigned prisoners.

3.13.3 Security/Circulation. The brig industry facility shall consist of an enclosed pre-engineered metal building appropriate for the type of industry located within a secure perimeter. Awardees or prisoners working with an outside command must be closely supervised at all times.

3.14 Prisoner Programs, Drill, P.T., Recreation

3.14.1 Policy Issues. Two types of exercise/recreation space shall be provided:

a) Outdoor -- Small, covered outdoor recreation area; grinding field.

b) Passive Indoor -- Dayroom/TV rooms, multi-purpose area. The recreation areas shall be designed to balance the need for security and the physical arrangement of space that meets normalized recreation design criteria.

3.14.2 Access/Adjacencies. Indoor and covered recreation (both passive and active) shall be adjacent or conveniently accessible to awardee and prisoner living areas.

3.14.3 Security/Circulation. Freedom of movement shall be granted to prisoners and awardees inside the recreation area. Central Control shall be able to monitor both indoor and outdoor recreation areas. Outdoor recreation space will be within the secured perimeter and covered area is at least 12

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feet high. Recreation periods for different prisoner classification types shall be kept separate by means of scheduling.

3.14.4 Staffing Requirements

- a) Recreation/training specialist.
- b) Authorized staff members.

3.14.5 Hours of Operation. As required, based on other daily scheduled activities.

3.14.6 User Needs

3.14.6.1 Outdoor Recreation (in the grinder). Equipment for outdoor recreation shall include volleyballs, nets, basketballs, and other appropriate equipment. However, no paved or marked courts will be provided.

3.14.6.2 Passive Indoor Recreation. Equipment for recreation shall include tables, chairs, table games, cards, TV, radio and other appropriate equipment.

3.15 Prisoner Programs (Exchange)

3.15.1 Policy Issues. Exchange services shall be available to prisoners on a regular and frequent basis. Exchange items shall consist of non-brig-supplied items authorized and approved for purchasing from the Navy Base Exchange.

Preordered Exchange items will be prebagged at the Navy Base Exchange and dispensed to awardees and prisoners by cart in their respective housing units. The prices of Exchange items shall not exceed the prices charged for those same items in the Navy Base Exchange.

3.15.2 Access/Adjacencies. Exchange items shall be transported to the service entrance and delivered to the awardees and prisoners as soon as possible. However, when circumstances do not permit immediate delivery, Exchange items shall be stored in the secure storage area near the service entrance. This storage room shall be inaccessible to prisoners and constantly supervised when open.

3.15.3 Security/Circulation. Staff shall always be present whenever an individual accepts and signs a receipt for his/her Exchange purchases. A staff member shall always escort and closely observe the transfer of Exchange items to the housing units. The prisoner must show identification in order to receive his/her Exchange order.

3.15.4 Staffing Requirements

- a) Assigned staff.
- b) Authorized awardee/prisoner on work assignment (to aid in delivery of the exchange items to the housing unit).

3.15.5 Hours of Operation. As required.

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3.15.6 User Needs. A cart large enough to accommodate a housing unit's Exchange order shall be made available for use. Sufficient storage space shall be provided for temporary storage of the cart.

An emergency supply kit of brig-supplied items (toiletries, towels, etc.) shall be readily accessible for distribution to the awardee and prisoner population.

3.16 Prisoner Programs (Barbershop)

3.16.1 Policy Issues. Awardees and prisoners are required to receive a periodic haircut in order to maintain a neat military appearance.

3.16.2 Access/Adjacencies. A barbershop kit shall be portable so it can be taken to the various areas of the facility if required. Barber facilities, including a lavatory and an electrical outlet shall be provided at Intake Waiting.

3.16.3 Security/Circulation. Prisoners expected to be a behavior problem during haircutting will be heavily supervised. The barber's equipment kit shall be inspected before entering and upon leaving the facility. To ensure the accountability and whereabouts of haircutting tools, the barber's equipment kit shall also be inspected before entering and upon leaving each housing unit when haircutting is done in housing units. Hair applications containing alcohol or flammable materials shall not be allowed in the institution.

3.16.4 Staffing Requirements

- a) Barber from Navy Base Exchange.
- b) Escort (if required).

3.16.5 Hours of Operation. Normal business hours, Monday through Friday; on an as-needed basis.

3.16.6 User Needs. Barber shall be provided with a portable barber's kit.

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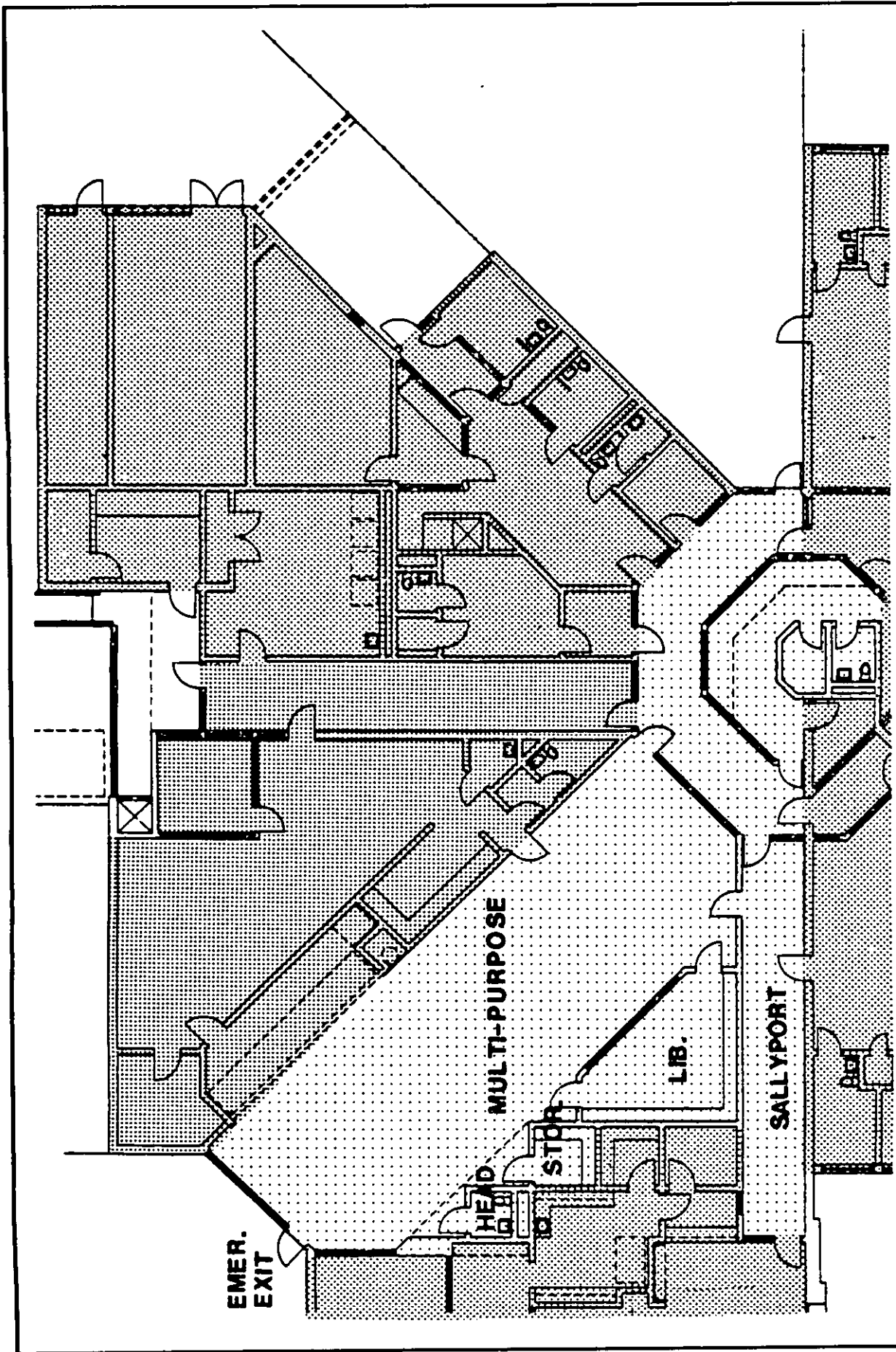
<u>AREA DESCRIPTION</u>	<u>SPACE NO.</u>	<u>PERSONS PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
Multipurpose Room/ (Contact Visiting/ Prisoner and Staff Dining)	98	60	1	(1,150)		1
Library/Intake Review Room (Attorney/C.O. Visiting/ Self-Study)	99	AR	1	(252)		2
Audio/Visual, Educational Material, Religious Service, Storage	100	AR	1	40		
Head	101	1	1	30		
TOTAL				70	187	

NOTES:

1. Designed to accommodate prisoner visiting, education, religious services and congregate activities on a scheduled basis. (See Prisoner Visiting).
2. This space also used for visiting purposes (see Prisoner Visiting). The net square footage of this area is allocated under Prisoner Visiting.

TITLE Prisoner Programs	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 51
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FACILITY PLATE NO 52	CATEGORY CODE 730-15	DATE APR. 88	TITLE Mess Deck
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3.17 Medical

3.17.1 Policy Issues. The Medical unit provides the awardees and prisoners with initial medical and health screening during intake, sick call, general medical treatment and emergency treatment/stabilization. Special and acute care treatment shall be provided at the base medical facility.

3.17.2 Access/Adjacencies. The Medical area shall be easily accessible to the awardee and prisoner housing areas. Only prisoners scheduled to receive medical treatment shall be allowed access to the medical area. Stored medicines will only be accessible to authorized staff (such as, Corpsman, Medical Officer). Medical staff, awardee and prisoner patients shall enter the medical waiting area under the visual supervision of Central Control. Awardees and prisoners shall not be allowed to visit the medical area at the same time. Separate medical area hours shall be scheduled for each population.

3.17.3 Security/Circulation. Awardee and prisoner access to the medical area shall be carefully controlled. All equipment and medicines shall be stored in a secure area. A medications and medical log must be kept of all drugs dispensed and all treatments. Awardees and prisoners entering the waiting and examination areas shall be visually monitored by Central Control. Only three patients shall be allowed access to the waiting room at any given time.

After sick call is held in the housing units, Central Control shall allow awardee and prisoner patients to enter the waiting area and await examination. At the appropriate time, the patient shall proceed to the examination/treatment area where he/she shall be examined by a member of the medical staff. The medical record of the prisoner will be kept in a secure file cabinet within the medical area.

Most medicine shall be dispensed within the housing unit by a medical staff member.

3.17.4 Staffing Requirements

- a) Medical Officer/Corpsman.
- b) Physician (if required).

3.17.5 Hours of Operation. During scheduled sick call (A.M. and P.M.), medicine distribution periods and emergencies. Access to and use of the medical area will be scheduled to prohibit contact between the CCU and prisoner population. Appropriate medical staff shall be on call 24 hours per day, 7 days a week.

3.17.6 User Needs. The Medical unit shall contain a small, secure medical cabinet, a sink with running hot and cold water, a small desk with locked file space. A common patient/staff head is located adjacent to the examination room. The door to the examination room shall be wide enough to admit a stretcher.

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3.17.7 Special Requirements, Materials, Furnishings. This space is similar in finish to the administrative area. All cabinets and furnishings shall be easy to clean, durable and vandal-resistant. Since this area is small, light colors shall be used. The waiting area is immediately in front of Central Control for direct visual supervision. The corridor wall of the medical area will be full-height storefront glazing.

3.18 Mess Deck

3.18.1 Policy Issues. The base's Central Mess shall provide a food preparation system to serve the needs of the entire awardee, prisoner, and staff population. Nutritional and appetizing meals, as well as a well-designed dining environment, reinforce prisoner opportunities for good behavior. Adequate space, equipment, appliances and utensils shall be provided for food and supply storage, food and meal preparation/warming, distribution to prisoners in the dining area (located in the multi-purpose area) and in the dayrooms of the CCU housing area.

Staff dining will be in an area contiguous to the prisoner dining space.

3.18.2 Access/Adjacencies. The Mess Deck shall be easily accessible to all housing units. This component shall be adjacent to the service entrance/receiving loading dock. Food distribution/serverly shall be conveniently accessible to food and non-food storage areas and immediately adjacent to the grill area.

3.18.3 Security/Circulation. The Mess Supervisor shall have good visibility over the entire food service area. The Mess supervisor is responsible for inventory control and secure cutlery storage. Food storage shall be carefully monitored and logged to avoid loss of inventory. The pretrial, sentenced and female prisoner populations shall enter the mess deck (multi-purpose room) under the visual control of Central Control. The CCU population will be served meals in the dayroom(s) of the CCU housing units. Central Mess will prepare bag lunches for prisoners on assigned work details who do not return to the brig for lunch.

3.18.4 Staffing Requirements

a) Mess Supervisor

b) Authorized prisoners on work assignment (assist in meal preparation, dishwashing, cleaning and in-house delivery of meals).

3.18.5 Hours of Operation. Prior to and following normally scheduled meals to enable preparation and cleaning activities to take place.

3.18.6 User Needs. The brig's Mess Deck component shall be capable of feeding 35 prisoners at one time. This component shall contain areas for food and non-food storage, food tray preparation/warming and dishwashing, commercial refrigerator and freezer, fast food and grill preparation (cooking), and prisoner and staff dining. Adjacent to the dining area, there shall be a janitor closet equipped with cleaning supplies, food servers and beverage dispensers.

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Sinks with hot and cold running water shall be provided adjacent to the food preparation and dining areas to help ensure proper hygiene.

A solid slat coiling partition shall be provided to enclose the food service area during non-dining use of the multi-purpose area (such as religious services, classes, prisoner visiting). This shall serve as a means of controlling unwanted access to the food servery, preparation and storage areas. Since the dining area is a multi-purpose area, extra effort shall be made to guarantee its cleanliness.

3.18.7 Special Requirements, Materials, Furnishings. Finishes in this area shall be washable epoxy paint on walls and ceilings, impervious ceramic and quarry tile on the floors of functional areas and sealed trowel-finished concrete or vinyl composition tile on the floor of the dining areas. The office shall be situated so that the mess supervisor has visual control over all functions in the receiving, preparation and storage areas. The mess supervisor also needs to be able to casually observe the loading dock area.

3.19 Laundry

3.19.1 Policy Issues. The facility shall provide prisoners with the opportunity to wear clean, suitable and presentable clothing consistent with Navy guidelines. The laundry shall maintain a continuous and adequate supply of clean bedding, linen and clothing for the brig population.

3.19.2 Access/Adjacencies. The laundry shall be located near the service entrance/receiving loading dock. Access to the laundry area shall be via a secure corridor. Access to the laundry area shall be monitored by Central Control. The laundry area shall be located within the secure perimeter.

3.19.3 Security/Circulation. There shall be freedom of movement within the laundry area. Access to and from this area shall be carefully monitored and designated only for authorized staff and prisoners assigned to this detail. The work supervisor responsible for facility work assignments shall supervise the laundry component and ensure inventory control.

3.19.4 Staffing Requirements

- a) Laundry Supervisor.
- b) Authorized prisoners on work assignment.

3.19.5 Hours of Operation. Normal business hours, Monday through Friday. Additional hours, if required.

3.19.6 User Needs. The laundry area shall be equipped with two 50-pound (22.68 kg) washer-extractors, two 50-pound (22.68 kg) dryers and one press (linen, utility, dry cleaning).

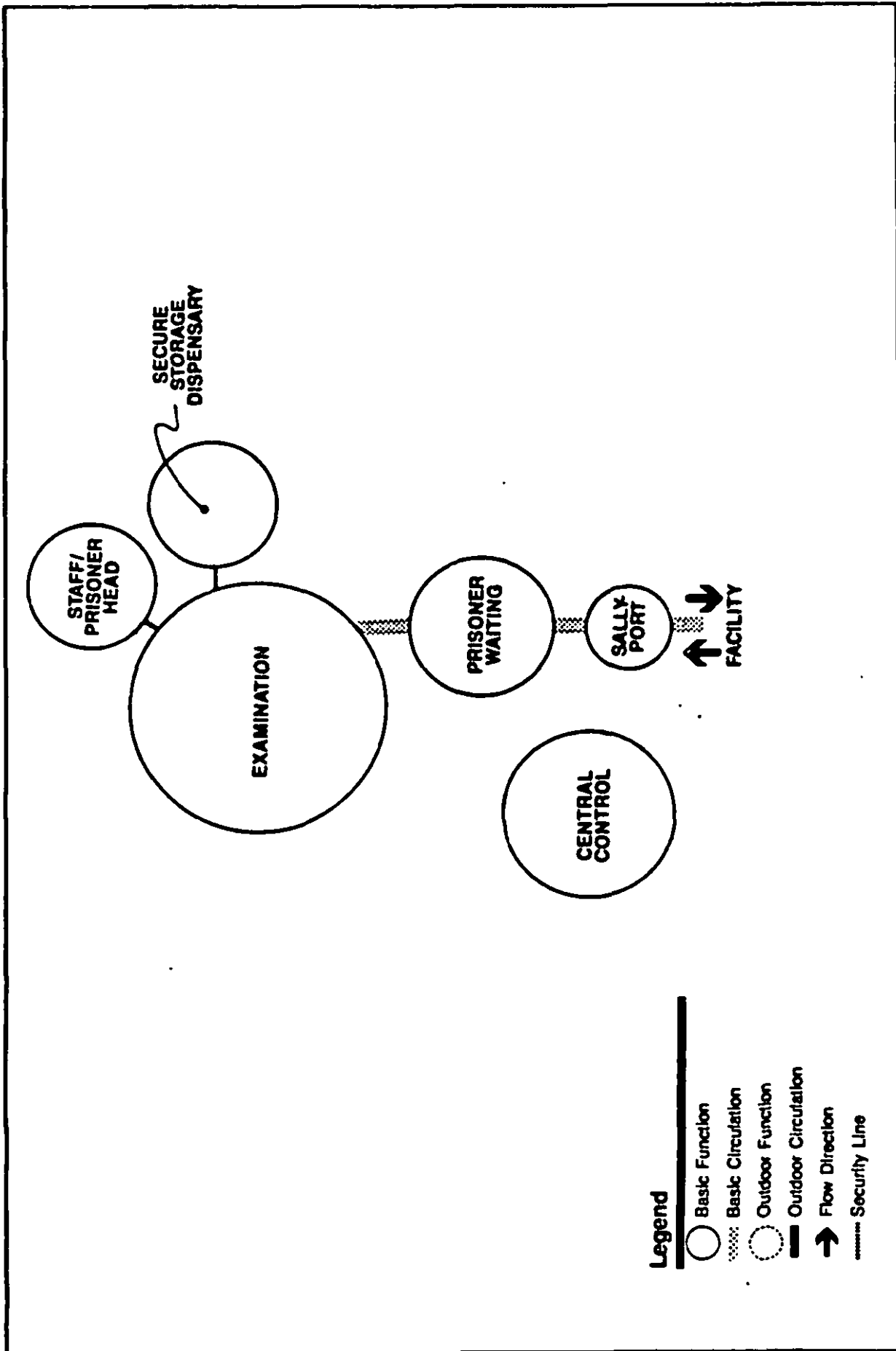
The laundry area shall have a separate water supply in order to provide the required amount of hot water.

The laundry shall provide sufficient space for cart storage, a sewing machine, washer/dryer area, storage for cleaning supplies, as well as

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bins for soiled sort and cleaned sort (clean linens go to property storage located in Receiving/Release). Work tables shall be provided to sort sheets, pillow cases, towels and mattress covers. Clean storage shall contain sufficient shelf and storage space to adequately contain the linen supply for the facility.

3.19.7 Special Requirements, Materials, Furnishings. Finishes shall be limited to painting. Walls and floors shall be washable.



FACILITY PLATE NO	730-15	DATE	APR. 89
53	CATEGORY CODE	APR. 89	TITLE Medical

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<u>AREA DESCRIPTION</u>	<u>SPACE NO.</u>	<u>PERSONS PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
Prisoner Waiting	75	3	1	56		
Examination Room	76	1-2	1	149		1
Head	77	1	1	21		
Secure Storage/ Dispensary Storage	78	AR	1	20		
TOTAL				246	310	

NOTES:

1. With lavatory.

TITLE

Medical

DATE

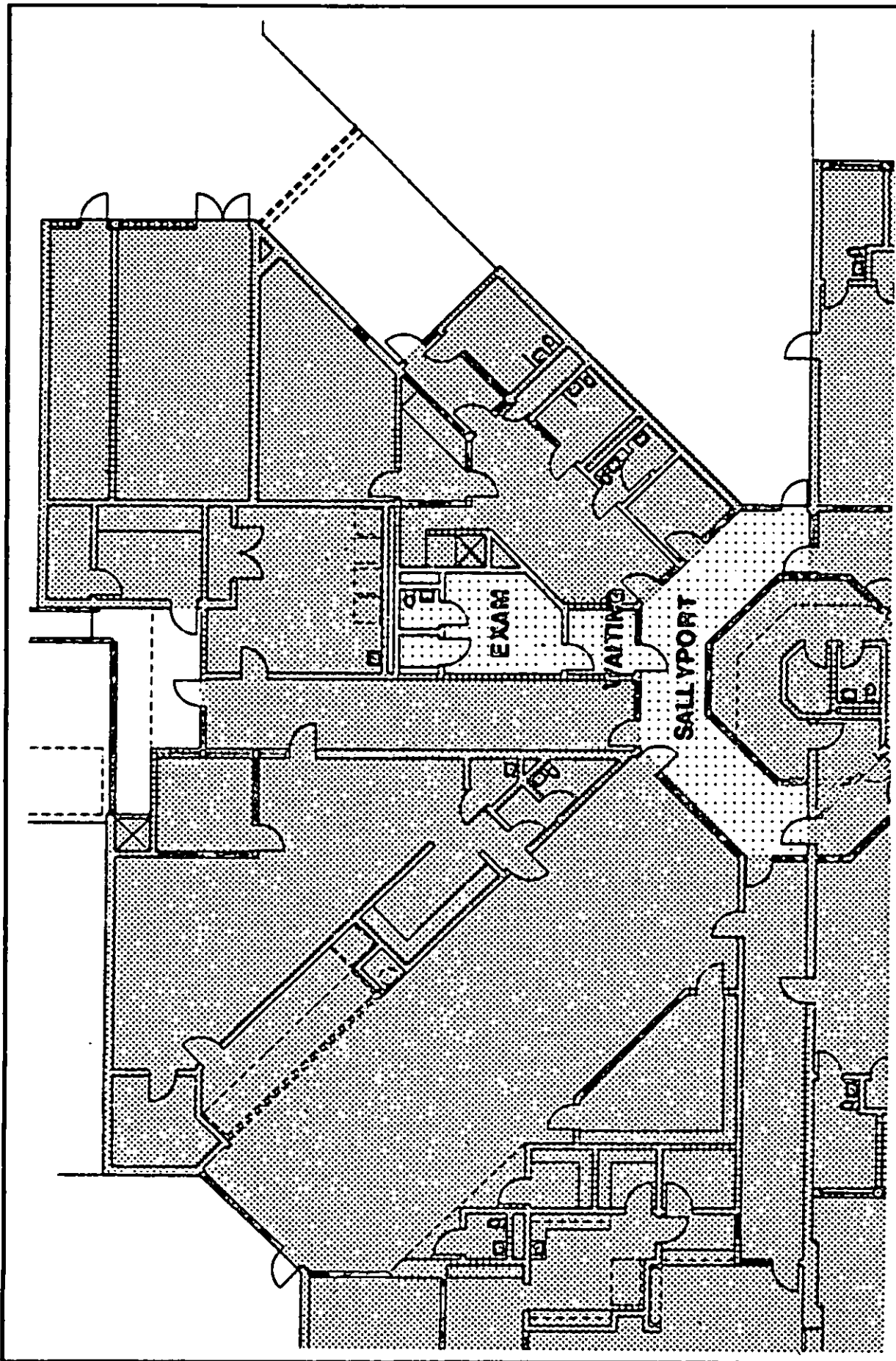
APR. 88

CATEGORY CODE

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PLATE NO**

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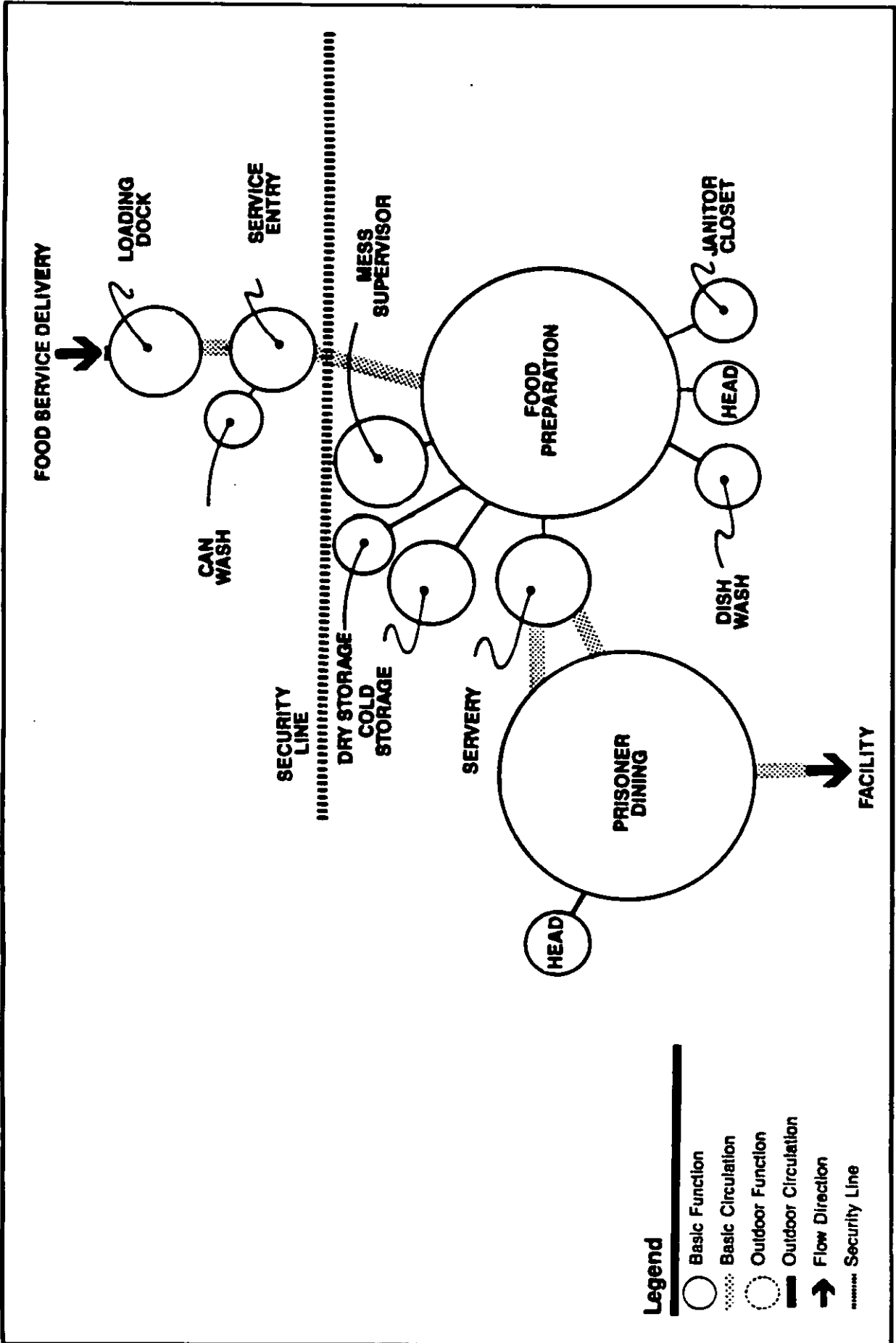
TITLE
Medical

DATE
APR. 86

CATEGORY CODE
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FACILITY
PLATE NO
55

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FACILITY PLATE NO	56
CATEGORY CODE	730-15
DATE	APR. 88
TITLE	Mess Deck

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<u>AREA DESCRIPTION</u>	<u>PERSONS SPACE NO.</u>	<u>NUMBER PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
Preparation	89	AR	1	756		
Mess Supervisor	90	AR	1	121		
Refrigerator/Freezer Storage Area	91	AR	1	50		
Dry Storage	92	AR	1	114		
Servery	93	AR	1	215		
Dishwashing	94	AR	1	117		
Vestibule	95	AR	1	27		
Head	96	1	1	42		
Janitor's Closet	97	AR	1	30		
TOTAL				1,472	1,770	

NOTES:

TITLE Mess Deck	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 57
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ITEM NUMBER	QUANTITY	EQUIPMENT DESCRIPTION	MECHANICAL CONNECTIONS												REMARKS		
			ELECTRICAL			PLUMBING				GAS		CFM					
			VOLTS	KW	HP	CW	HW	W	FW	LINE	BTU	SUPP	EXH	SP			
1	1	WORKTABLE															
2	2	WORKTABLE															
3																	
4	1 LOT	SHELVING															
5	1	DISHTABLE				1/2"	1/2"	2"									
6	1	DISHMACHINE	208/3		1	22.5	1/2"	2"									*BOOSTER - 12KW
7	1	WORKTABLE															
8	1	REACH-IN FREEZER	115/1		1/2"												
9	1	WORKTABLE W/SINK				1/2"	1/2"	2"									
10	1	REACH-IN REFRIGERATOR	115/1	1.03	1/2"	12.3											
11	1	BACK BAR				1/2"	1/2"	2"									
12	1	GRIDDLE	115/1							1/2"	160						
13	1	FRYER	115/1							1/2"	72						
14	1	VENT HOOD	115/1									2300	3150	.75/3			
15	1	TABLE W/REFRIGERATOR	115/1														
16	1	TOASTER	208/1	5													
17	1	SERVING COUNTER	115/208/1	4	1/3												
18	1	ICE MAKER/DISPENSER	115/1			12.6	1/2"		1/2"								
19	1	BEVERAGE DISPENSER															
20	1	COFFEE URN	208/3	4		16	1/2"										
21	1	DISPOSER	208/3		2		1/2"		2"								
22	1	UTILITY CART															
23	1	MIXER	115/1		1/3												
24	1	FOOD CUTTER	115/1		1/3												
25	1	SLICER	115/1		1/3												
26	1	HAND SINK					1/2"	1/2"	2"								
27	2	DRAINAGE															
28	2	MOBILE DISH STORAGE															
29	1	SPREADER/HOT PLATE	208/1	5.2		25											
30	1	STARTER STATION															

TITLE

Mess Deck

DATE

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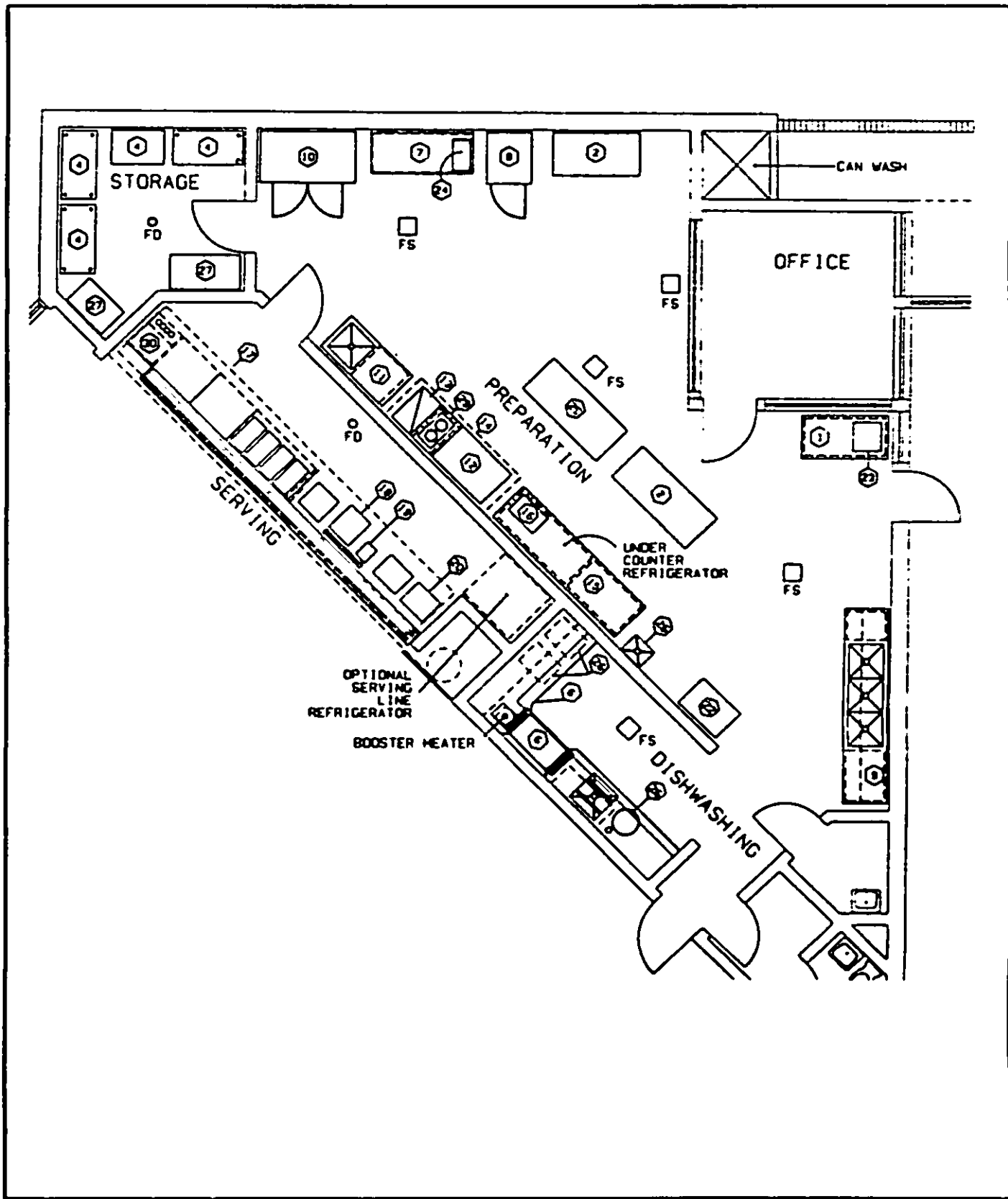
CATEGORY CODE

730-15

FACILITY
PLATE NO

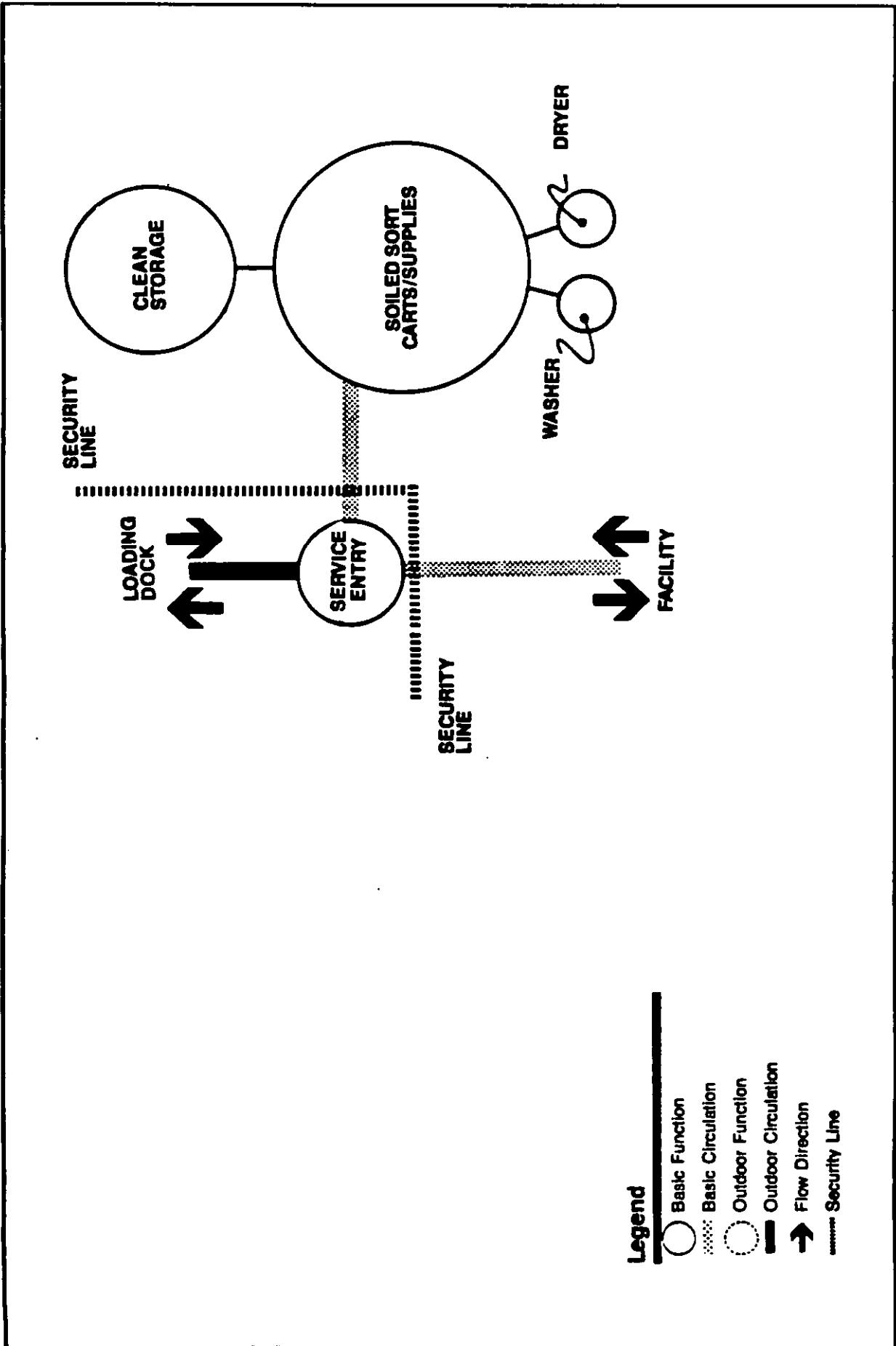
58

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TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Mess Deck	APR. 88	730-15	59

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FACILITY PLATE NO	CATEGORY CODE	DATE	TITLE
60	730-15	APR. 88	Laundry

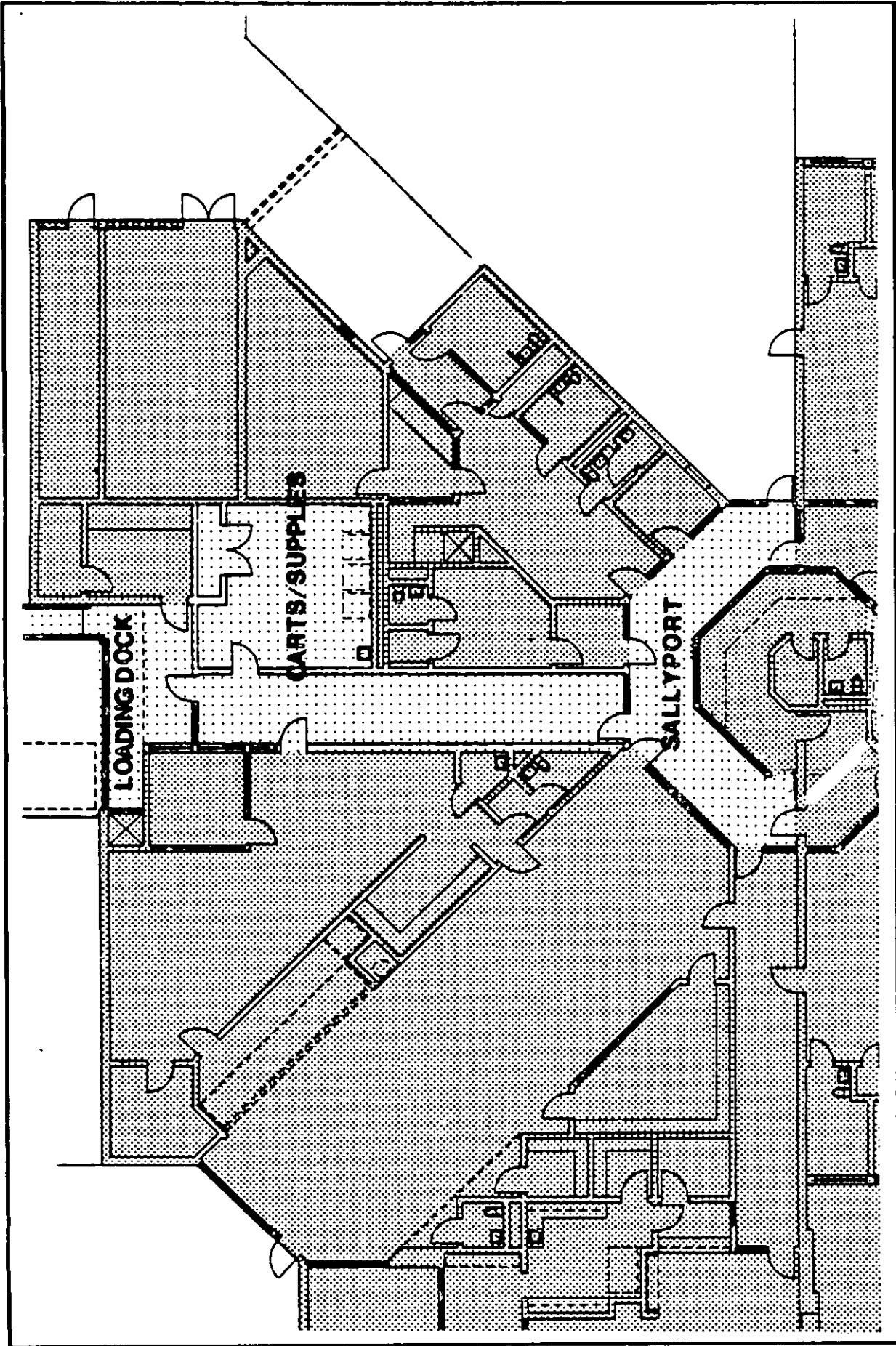
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<u>AREA DESCRIPTION</u>	<u>PERSONS SPACE NO.</u>	<u>NUMBER PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
Laundry	79	AR	1	318		
Cart Storage	80	AR	1	26		
Clean Storage	81			30		
TOTAL				374	440	

NOTES:

TITLE Laundry	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 61
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TITLE Laundry	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 62
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3.20 Maintenance

3.20.1 Policy Issues. The brig shall have a small maintenance area located adjacent to the mechanical room. This area must accommodate routine maintenance, protection of tools and control of dangerous supplies. Complex or sophisticated repairs shall not be provided by this component. Routine maintenance activities such as tile replacement, painting, electrical fixture replacement, plumbing fixture replacement and leak stoppage shall be performed.

3.20.2 Access/Adjacencies. Maintenance shall be externally accessible through the service entrance/loading dock area monitored by Central Control. Interior access to this area shall be through a sally port located between the maintenance area and Central Control.

3.20.3 Security/Circulation. Access to and from Maintenance shall be carefully monitored and only certain staff and authorized prisoners shall be permitted to enter this area. Brig security warrants that proper maintenance supervision minimize opportunities for prisoners to obtain tools or other maintenance materials that might be converted into contraband or weapons.

3.20.4 Staffing Requirements

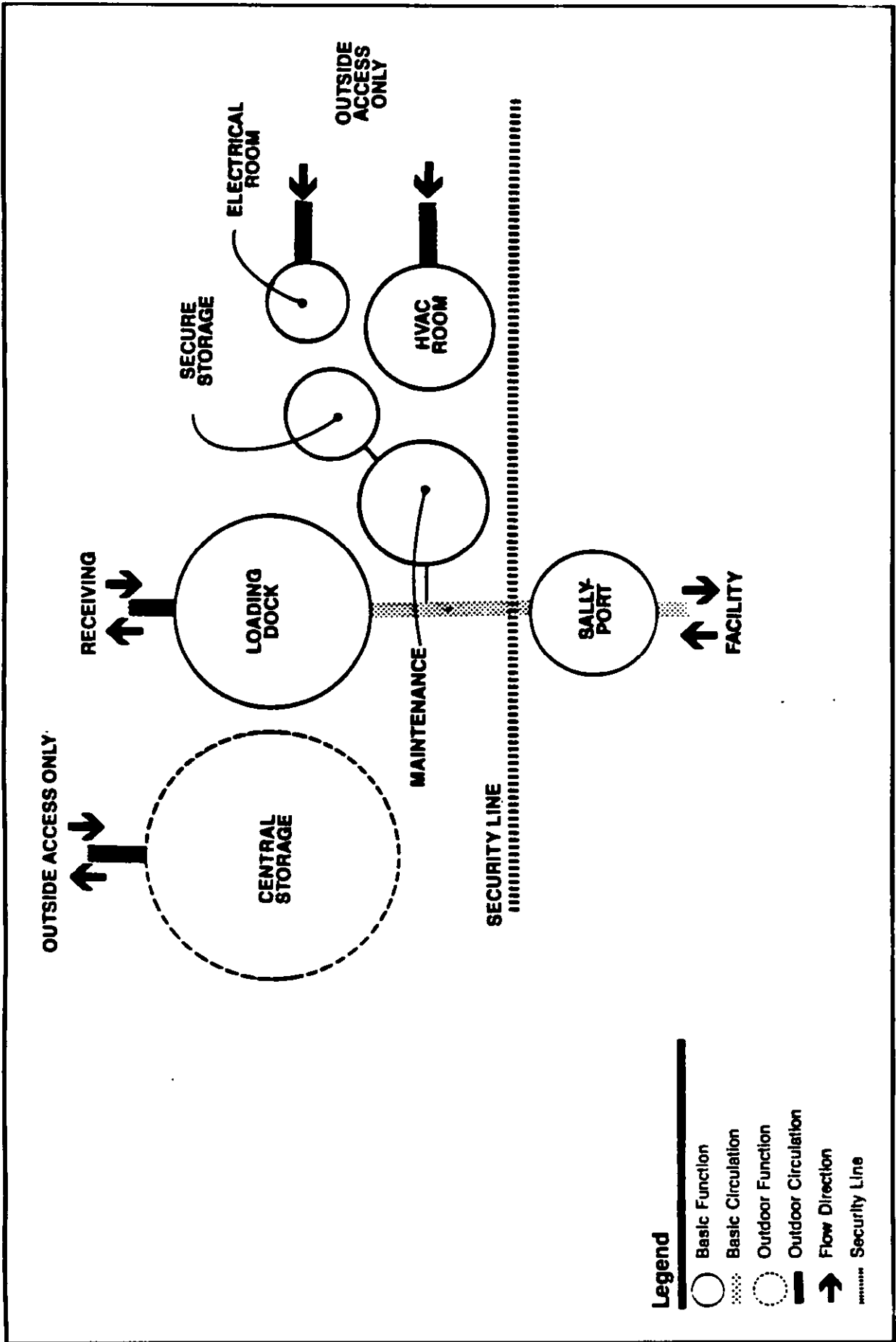
- a) Industry/Maintenance Supervisor.
- b) Authorized prisoners on work assignment.

3.20.5 Hours of Operation. Normal business hours, Monday through Friday, and on a 24-hour emergency basis.

3.20.6 User Needs. There shall be sufficient space and equipment within the maintenance shop to provide maintenance services. Maintenance storage shall provide space for shop supplies, spare parts, mattresses and institutional supplies. The secure storage area shall be equipped with a wall-mounted, steel tool shadow board. A tool log shall be kept of all tools that leave the maintenance area.

There shall always be a sufficient amount of institutional supplies kept in Maintenance so that the basic necessities of the prisoners are provided.

3.20.7 Special Requirements, Materials, Furnishings. Finishes shall be limited to painting. Walls and floors shall be washable.



Legend

- Basic Function
- ⋯ Basic Circulation
- Outdoor Function
- Outdoor Circulation
- ➔ Flow Direction
- Security Line

TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Maintenance	APR. 88	730-15	63

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<u>AREA DESCRIPTION</u>	<u>PERSONS SPACE NO.</u>	<u>NUMBER PER AREA</u>	<u>NUMBER OF AREAS</u>	<u>NET S.F.</u>	<u>GROSS S.F.</u>	<u>NOTES</u>
Electrical Room	81	AR	1	222		
Mechanical Room	82	AR	1	485		
Secure Storage	83	AR	1	55		
Industries/ Central Storage	84	AR	1 (2000)			1
Maintenance Shop	85	AR	1	132		
Receiving Area/ Loading Dock	86	AR	1 (72)			
Can Wash	87	AR	1	48		
TOTAL				966	1,135	

NOTES:

1. To be located in a separate building. Actual size and design will depend on the specific industrial activity developed and implemented for the specific brig.

TITLE**Maintenance****DATE**

APR. 88

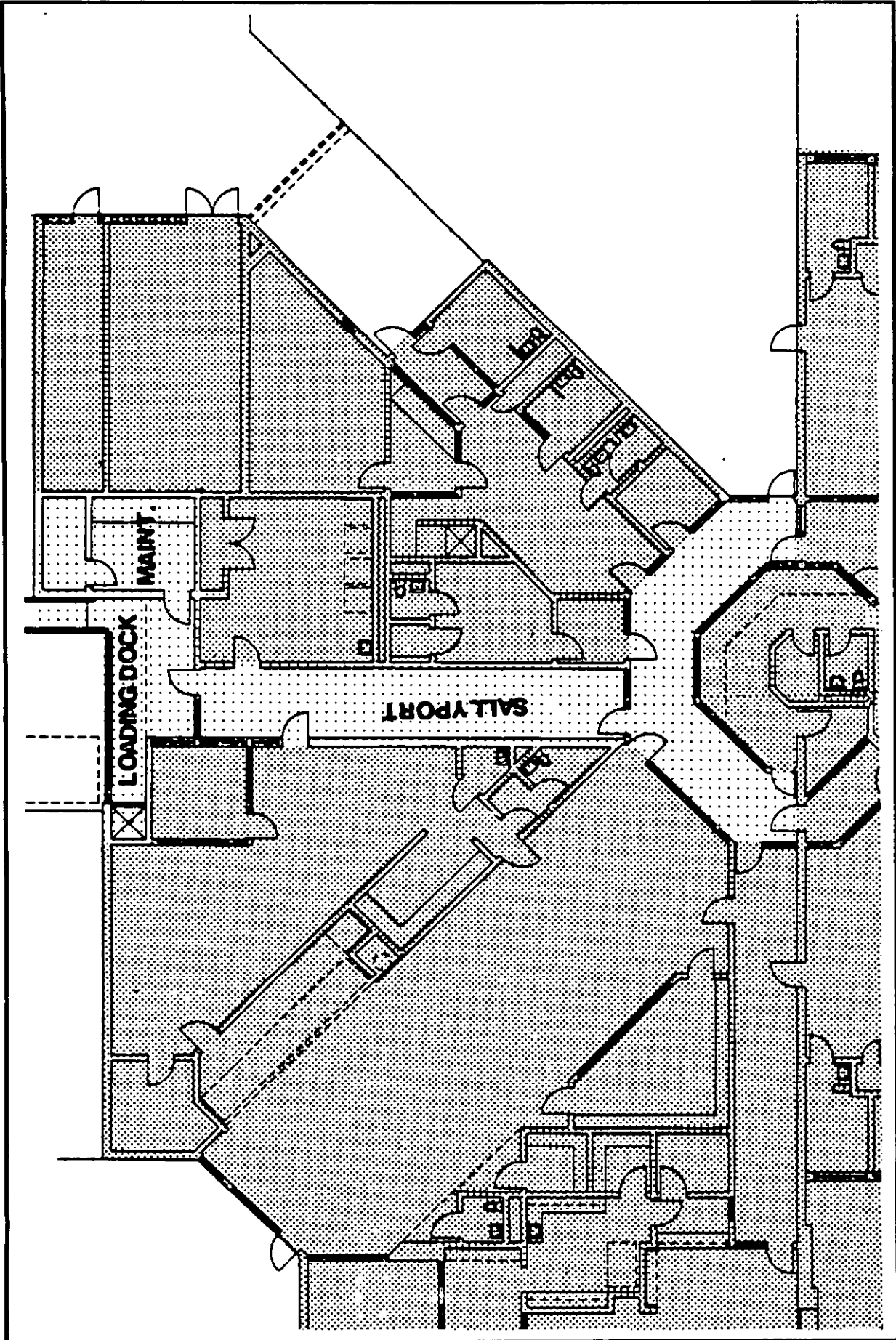
CATEGORY CODE

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**FACILITY
PLATE NO**

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TITLE Maintenance	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 65
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3.21 Wall Construction. The criteria stated below do not preclude the use of other materials more readily available in the local market, provided that they meet the basic requirements of fit, finish, fire protection and security. Design patterns or treatments in walls, especially exterior walls, shall not provide grooves, indentations, crevices or similar surfaces that could provide hand or footholds to aid prisoners in climbing. Such patterns or treatments near downspouts and the security fence are prohibited. Angles formed where walls meet ceilings and floors shall be flush and provide no openings or crevices where contraband can be concealed.

3.21.1 Level II Security. Provide solid security walls. The walls shall be 8-inch (203 mm) thick concrete masonry units with cells filled full height with grout conforming to ASTM C476, Standard Specification for Grout for Masonry, and reinforced in each block with vertical 3/8-inch (9.52 mm) steel rods 16 inches (406 mm) on center with deformed billet-steel conforming to ASTM A615, Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement. Extend wall to the underside of the structure.

3.21.2 Level I Security. Provide solid security walls. The walls shall be 8-inch thick concrete masonry units with cells filled full height with grout conforming to ASTM C476; no vertical reinforcement is required for security; extend wall to the underside of the structure.

3.21.3 Fire Rated Walls. Provide rated walls as shown on the Facility Plate titled Physical and Life Security Plan. Provide construction assemblies or masonry construction which are identical to those assemblies whose fire resistance has been determined by testing to be in compliance with ASTM E119, Fire Tests of Building Construction and Materials, Methods of, provided that, in addition, those assemblies meet the basic requirements of fit, finish, and security for the area(s) where they shall be used.

3.21.4 Smoke Compartment. Provide a solid security and 1-hour fire-rated wall. Where glazing occurs, vision panels shall not individually exceed 1,296 square inches (0.84 sq m). Refer to NFPA 101, Code for Safety to Life from Fire in Buildings and Structures, 14-3.7.2.

3.21.5 Security Wall Panels. Metal panels may be used in lieu of masonry constructed in non-fire-rated installation provided they consist of two 14-gauge steel face plates with internal stiffeners. Voids between steel plates shall be filled with sound-proofing on interior walls and thermal insulation on exterior walls.

3.22 Detention and Security Glazing Types. The following listing is provided as a description of the types and applications of glazing necessary for implementation of the intended management plan of this facility. The doors to which they are assigned are scheduled on the Facility Plate titled Security Doors. The locations of these scheduled doors and other glazing applications are shown on the Facility Plate titled Physical and Life Security Plan. The A/E shall use these glazing types in the locations as scheduled and indicated without exception. Clear openings in the security perimeter where accessible to prisoners shall not exceed 5 inches in one dimension. Refer to NAVFAC NFGS-11192, Detention Security Glazing, for further guidance.

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- 3.22.1 Type 1. Type 1 (1/4-inch tempered glass) is for use in openings which have no security functions, and in openings whose smallest dimension is 5 inches or less, such as vision panels in doors where potential for passage of contraband is not significant.
- 3.22.2 Type 2. Type 2 (nominal 7/16-inch glass-clad 1/8-inch polycarbonate sheet) is for use in security windows whose smallest dimension is greater than 5 inches and which constitute a part of a security perimeter, such as exterior dayroom windows which are under visual supervision.
- 3.22.3 Type 3. Type 3 (nominal 3/8-inch 2-ply polycarbonate sheet with mar-resistant coating) is for use in interior windows which may be subject to vandalism, such as intake holding areas and in cell windows.
- 3.22.4 Type 4. Type 4 (nominal 7/16-inch three-ply chemically-strengthened glass) is for use in interior and exterior windows which may be subject to vandalism and where security implications are not significant, such as in low-intensity housing areas, dining and multi-purpose rooms.
- 3.22.5 Type 4W. Type 4W (same as type 4, with a separate (not laminated) sheet of wire glass added). For same uses as type 4, where the opening forms a part of the smoke partition.
- 3.22.6 Type 5. Type 5 (nominal 9/16-inch glass-clad polycarbonate) is for use in high security areas such as central control.
- 3.22.7 Type 5W. Type 5W (same as Type 5, with a separate (not laminated) sheet of wire glass). For same uses as Type 5, where the opening forms a part of the smoke barrier.
- 3.22.8 Type 6. Type 6 (nominal 5/16-inch two-ply chemically-strengthened glass) is for use in interior windows which may be subject to vandalism, such as low intensity housing areas.
- 3.23 Detention Hardware. The following listing is provided as a description of the types and applications of security hardware necessary to implement the intended management plan of this facility, with particular attention to locking devices. The doors to which they are assigned are scheduled on the Facility Plate titled Security Doors. The plan location of those scheduled doors are also shown on the Facility Plate titled Physical and Life Security. The A/E shall use these hardware types in doors as scheduled without exception. Refer to NAVFAC NFGS-11194, Detention Hardware, for more information.
- 3.23.1 Type SH-1. For use in control rooms. This type uses a heavy-duty security, electromechanical solenoid lock, for use in the door jamb with hollow metal swinging doors.
- 3.23.2 Type SH-2. For use in doors serving as interior fire exits. This type uses the same lock as type SH-1, and uses an exposed door closer.

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- 3.23.3 Type SH-3. For use in doors serving as exterior fire exits. This type uses the same lock as type SH-1. This door must be manually relocked with a key.
- 3.23.4 Type SH-4. Not Used.
- 3.23.5 Type SH-5. For use in doors serving interior storage rooms, laundry, equipment rooms, and janitor's closets. This type uses a level-tumbler deadlock designed for swinging doors.
- 3.23.6 Type SH-6. For use in exterior storage and equipment rooms. This type uses a six-level tumbler deadlock designed for swinging doors.
- 3.23.7 Type SH-7. For use in exterior mechanical and electrical rooms. This type uses a level-tumbler deadlock designed for swinging doors. It is used in this instance in a single door application.
- 3.23.8 Type SH-8. For use in exterior mechanical and electrical rooms. This type uses a lever-tumbler deadlock designed for swinging doors. It is used in this instance in a double leaf application.
- 3.23.9 Type SH-9. For use in medium security inmate rooms. This type uses an electromechanical security latch intended for swinging doors and is installed by mortise mounting within the two-inch trim section of the jamb of the door frame.
- 3.23.10 Type SH-10. For use in staff areas adjacent to inmate areas. This type uses a pin-tumbler mortise lock intended for hollow metal swinging doors.
- 3.23.11 Type SH-11. For use in hatches and chase access doors. This type uses a lever tumbler deadlock.
- 3.23.12 Type SH-12. For "Slammer" holding cells. This type uses a lever tumbler snaplock.
- 3.23.13 Type SH-13. For use in the laundry and kitchen where a fire rating is required. This type uses a lever tumbler deadlatch.
- 3.23.14 Type SH-14. For use in interior sally ports. This type uses a heavy-duty security, electromechanical motor-operated lock for remote or key unlocking.
- 3.23.15 Type SH-15. For use in exterior sally ports. This type uses the same lock as SH-14.
- 3.23.16 Type SH-16. For use in inmate showers. This type uses a remote electric control fail safe deadbolt.
- 3.23.17 Type SH-17. Not used.
- 3.23.18 Type SH-18. For use in interior sally ports and custodian/booking desk.

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3.23.19 Type SH-19. For use in exterior sally port entrances. This type uses the same lock as SH-14.

3.24 Ceiling Construction. The criteria stated below are based on appropriateness for the level of security of a given space. Alternate choices in housing areas are not recommended, except for the CCU dormitory. Alternates must meet the basic requirements of fit, finish and security. Angles formed where ceilings meet walls shall be flush and provide no openings or crevices where contraband can be concealed.

3.24.1 Cell Ceiling System. The ceiling system shall be cast-in-place concrete with a minimum thickness of 5 inches (127 mm) of reinforced concrete with 6 x 6 - W1.4 x W1.4 (152 x 152 mm - 9 x 9 mm²) welded wire fabric. Slab area exposed to the cell shall have a steel trowel finish.

3.24.2 CCU and Dormitory Ceiling System. These spaces do not require ceilings other than the exposed structural system. When a ceiling is mandated by the local command, the preferred system is a suspended plaster ceiling 3/4-inch (19.05 mm) thick applied in three coats on metal lath. Plaster may have a smooth or sanded finish. An alternate system is a gypsum ceiling. The ceiling shall be comprised of two layers of 5/8-inch (16 mm) thick regular gypsum wall board suspended on 1-1/2-inch (38.10 mm) metal channels.

3.24.3 Staff Areas Ceiling System. Use a suspended ceiling of acoustical panels in a 2 by 4 foot metal grid system. The system shall have a flame spread rating of 25 or less.

3.25 Security Concepts

3.25.1 Overall Concept. The overall security concept from a construction standpoint is based on establishing zones of construction in the prisoner areas. These zones are based on the level of security required for a specific population.

a) For the safety and security of the visiting public, staff and prisoners, the most secure zones in the building are the cells for the pretrial male and the female populations where mixing of populations might occur. The construction of the cells has been labeled "Level II secure perimeter."

b) The secondary secure perimeter generally runs along the exterior edges of prisoner-populated program or facility support areas. The construction of walls defining this perimeter is labeled as "Level I". The same construction runs between housing areas establishing population classification zones.

c) In every case, there shall be a sally port or two interlocked doors between the prisoner and the public areas.

d) A site specific fenced perimeter may be provided to keep the public from approaching the building without authorization.

e) Fencing at the prisoner grinder and emergency prisoner evacuation yards shall be a 12-foot (3.65 m) high commercial grade chain-link

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fence. Fencing shall include a rigid bar (rail) along the bottom of the fence and the space between the bottom bar and the ground shall not exceed 5 inches.

f) Openings in the exterior walls of the security perimeter shall not exceed 5 inches. Large windows shall be provided with security bars spaced no farther than 5 inches apart. Operable windows in areas accessible to prisoners shall be designed to be manually operated from the inside without creating an opening through which contraband could be passed.

g) Doors in the CCU dormitories shall be regular (non-security type) hollow metal doors with builders' hardware.

h) Doors at heads and showers in Dorm A and CCU dormitories shall not have locks.

i) To the extent practicable, locate downspouts outside prisoner grinder and emergency evacuation yards.

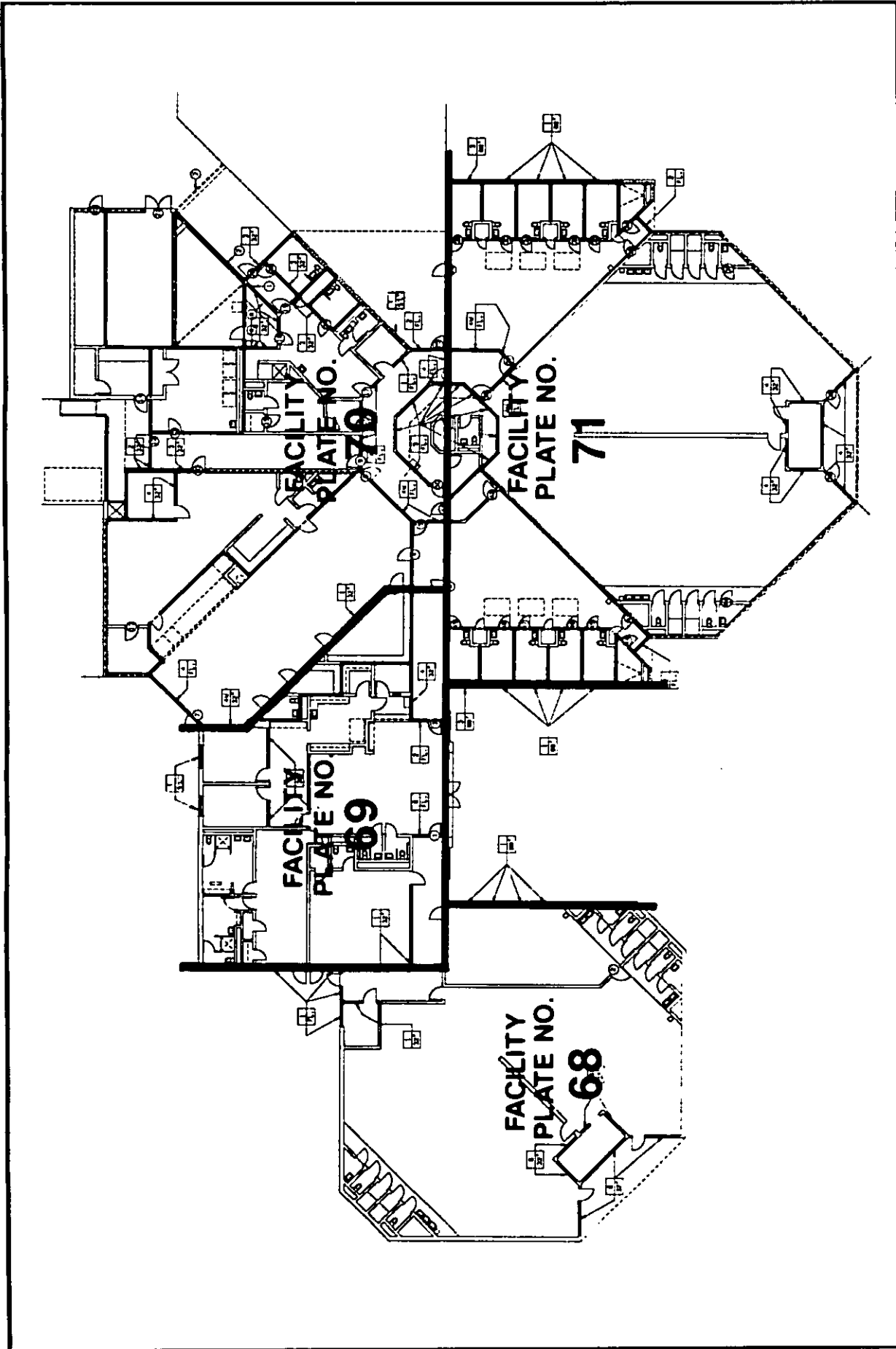
3.25.2 Shower Doors. Shower door locks in cell block areas shall be electric deadbolts designed for mortise mounting in the door with a fail safe operation. The door locks when energized and unlocks automatically when de-energized.

3.25.3 Secure Areas. Use electromechanical solenoid locks in sally ports, corridors, support spaces, and emergency exits. The lock shall be keyed both sides, except at cell doors. Each bolt shall be remotely retracted and remain retracted until the door is opened, except for fire exits, in which case the door shall remain unlocked until key re-locked.

3.25.4 Mechanical and Storage Rooms. Use mechanical deadbolts to secure mechanical and storage rooms. Use a heavy-duty, high-security manual deadbolt type which locks and unlocks by key action only.

3.25.5 Secure Storage. Provide secure key cabinets, gun lockers and a drug storage closet.

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TITLE Physical & Life Security Plan	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 66
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----- LEVEL I SECURE PERIMETER
 - - - - - LEVEL II SECURE PERIMETER
 SMOKE COMPARTMENT
 ----- 2 HRS. RATED WALLS
 - - - - - 1 HRS. RATED WALLS
 GLAZING TYPE AND SILL HEIGHT ABOVE FIN. FLOOR
 THE SUBSCRIPT "W" DENOTES 1/4" WIRE GLASS

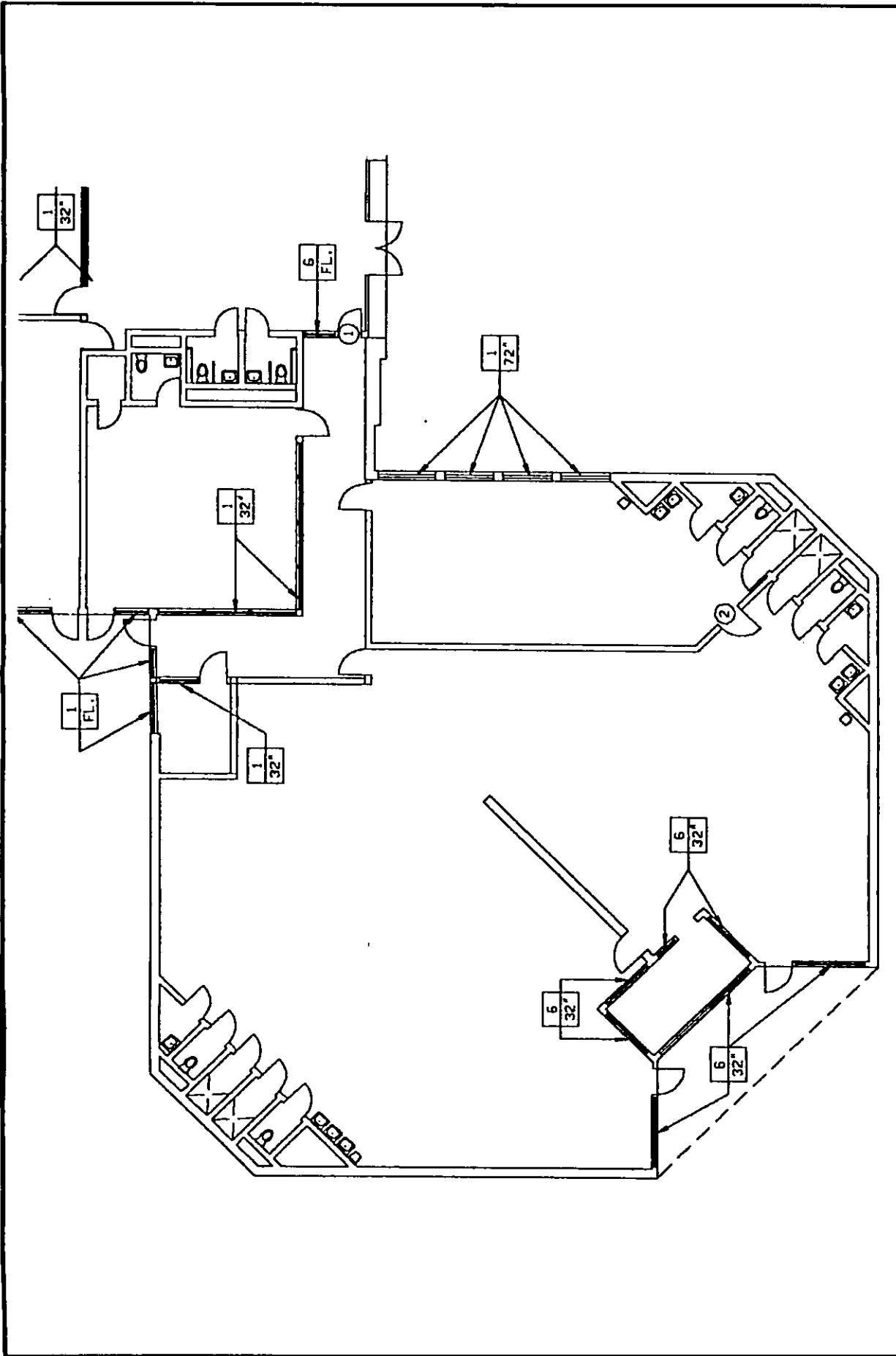
1
88

NOTE:

1. NUMBER IN CIRCLE ON FLOOR PLAN INDICATES DOOR NUMBER FOR SECURITY HOLLOW METAL DOORS. SEE FACILITY PLATE ENTITLED "SECURITY DOORS" FOR DESCRIPTIVE INFORMATION. ALSO SEE NAVFAC GUIDE SPECIFICATION NFGS-11193, DETENTION HOLLOW METAL FRAMES, DOORS, AND DOOR FRAMES.

TITLE Physical & Life Security Notes	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 67
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MIL-HDBK-1037/4

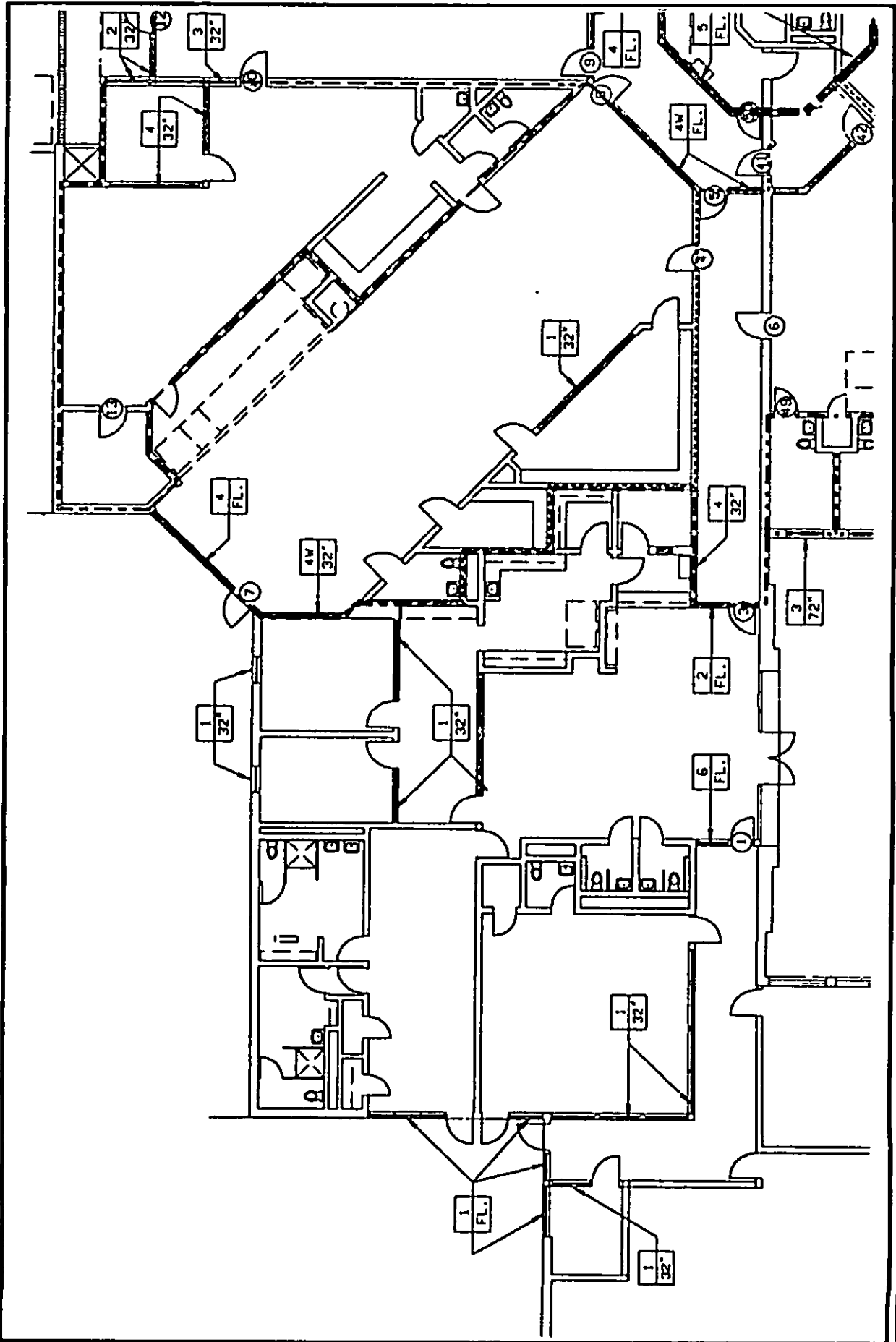


TITLE
Phys. & Life Sec. Partial Plan

DATE
APR. 88

CATEGORY CODE
730-15

FACILITY PLATE NO
68



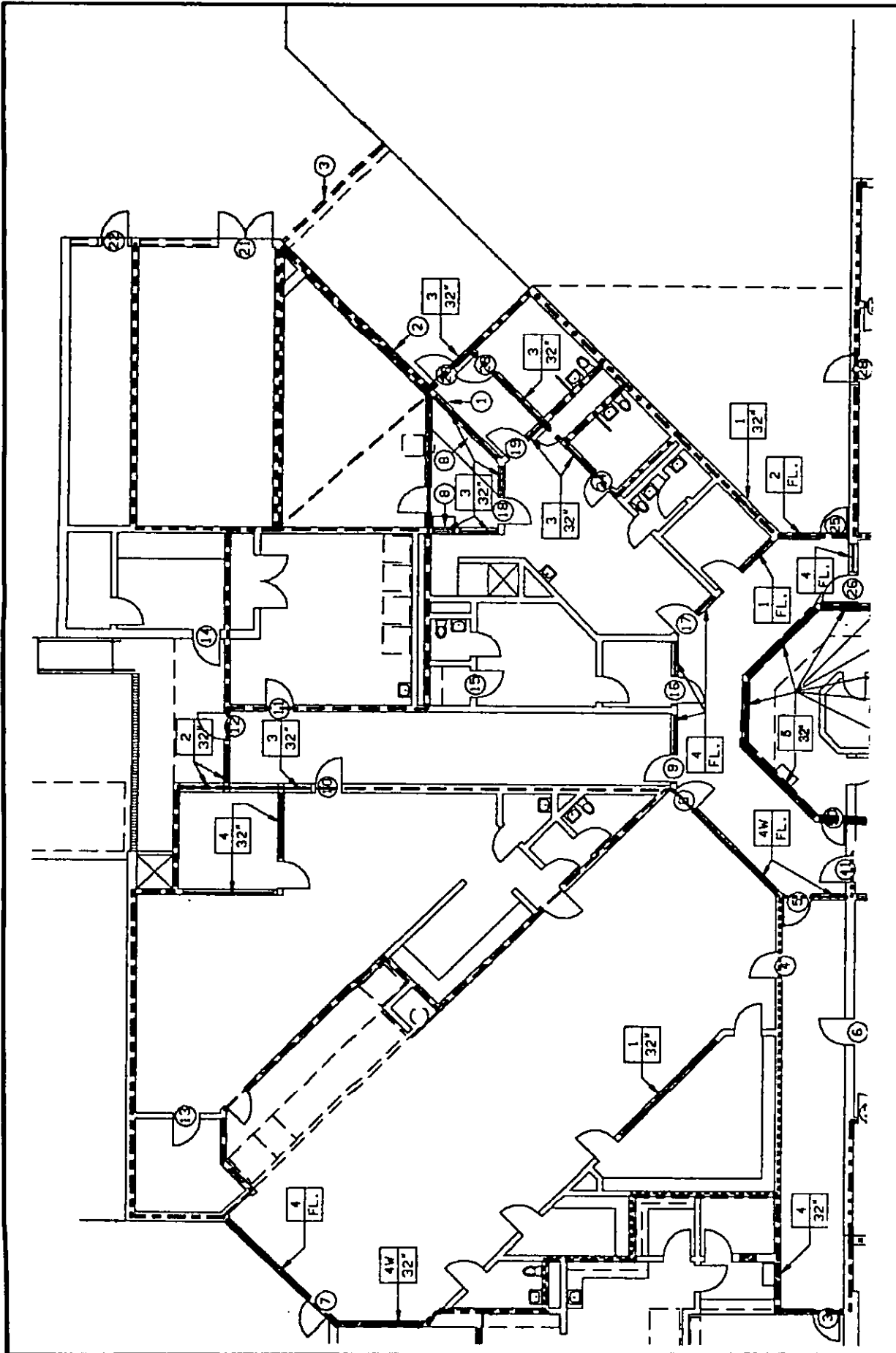
TITLE
Phys. & Life Sec. Partial Plan

DATE
APR. 88

CATEGORY CODE
730-15

FACILITY
PLATE NO
69

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TITLE
Phys. & Life Sec. Partial Plan

DATE
APR. 88

CATEGORY CODE
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FACILITY
PLATE NO
70

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DOOR	TYPE	MATERIAL	GUAGE	GLASS TYPE	HDWE. SET	OPERATION	REMARKS
1	E	SHM	14	6	SH-18	ELEC.	
2	A	SHM	14	--	SH-2	ELEC.	
3	E	SHM	12	2	SH-14	ELEC.	
4	D	SHM	14	4W	SH-18	ELEC.	
5	E	SHM	12	4W	SH-14	ELEC.	
6	A	SHM	12	--	SH-2	ELEC.	
7	A	SHM	12	--	SH-3	ELEC.	
8	E	SHM	14	4W	SH-18	ELEC.	1
9	E	SHM	14	4	SH-18	ELEC.	
10	B	HM	18	1	BUILDERS	HARDWARE	
11	B	HM	18	1	BUILDERS	HARDWARE	
12	D	SHM	12	2	SH-19	ELEC.	1
13	A	SHM	14	--	SH-5	MECH.	
14	A	SHM	12	--	SH-6	MECH.	
15	A	SHM	14	--	SH-10	MECH.	
16	D	SHM	14	4	SH-10	MECH.	
17	E	SHM	12	4	SH-14	ELEC.	
18	D	SHM	14	3	SH-18	ELEC.	
19	E	SHM	12	3	SH-14	ELEC.	
20	E	SHM	12	3	SH-19	ELEC.	
21	A	HM	18	--	BUILDERS	HARDWARE	
22	A	HM	18	--	BUILDERS	HARDWARE	
23	D	SHM	12	3	SH-12	ELEC.	
24	D	SHM	12	3	SH-12	MECH.	
25	E	SHM	12	2	SH-3	ELEC.	
26	D	SHM	14	5	SH-14	ELEC.	
27	E	SHM	12	4W	SH-14	ELEC.	
28	A	SHM	12	--	SH-3	ELEC.	
29	E	SHM	12	3	SH-1	ELEC.	
30	C	SHM	14	3	ASH-9	ELEC.	
31	C	SHM	14	3	SH-9	ELEC.	
32	C	SHM	14	3	SH-9	ELEC.	
33	C	SHM	14	3	SH-9	ELEC.	
34	A	SHM	14	--	SH-16	ELEC.	
35	A	SHM	16	--	SH-5	MECH.	
36	D	SHM	14	4W	SH-14	ELEC.	
37	A	SHM	16	--	SH-5	MECH.	
38	D	SHM	12	4	SH-3	ELEC.	

TITLE

Security Doors

DATE

APR. 88

CATEGORY CODE

730-15

FACILITY
PLATE NO

72

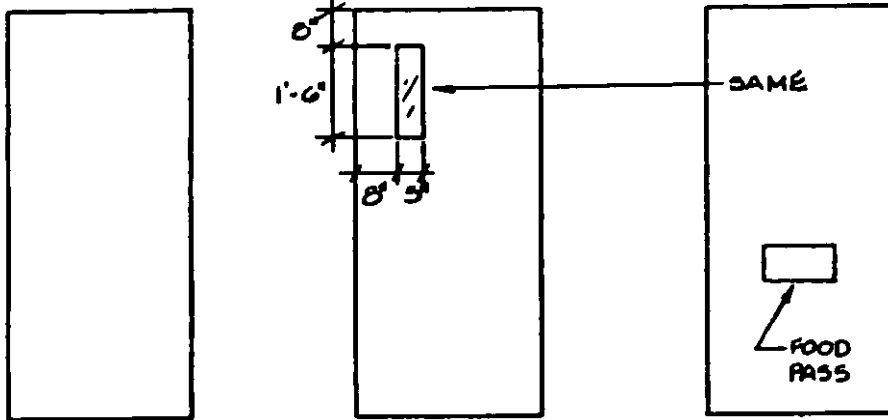
MIL-HDBK-1037/4

DOOR	TYPE	MATERIAL	GUAGE	CLASS TYPE	HDWE. SET	OPERATION	REMARKS
39	D	SHM	12	4	SH-3	ELEC.	
40	A	SHM	14	--	SH-5	MECH.	
41	D	SHM	12	--	SH-14	ELEC.	
42	E	SHM	12	4	SH-14	ELEC.	
43	A	SHM	16	--	SH-5	MECH.	
44	A	SHM	16	--	SH-16	ELEC.	
45	C	SHM	14	3	SH-9	ELEC.	
46	C	SHM	14	3	SH-9	ELEC.	
47	C	SHM	14	3	SH-9	ELEC.	
48	C	SHM	14	3	SH-9	ELEC.	
49	E	SHM	12	3	SH-1	ELEC.	
50	D	SHM	12	5	SH-1	ELEC.	

NOTES:

1. Override the system interlock during emergency egress sequence.
2. Typical for all cell doors.
3. All doors not numbered are to be "builders hardware."

TITLE Security Doors	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 73
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(A)

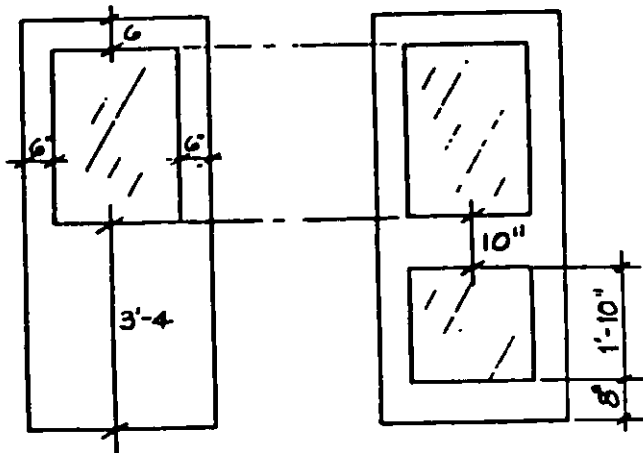
FLUSH H.M.
SECURITY

(B)

FLUSH H.M.
SECURITY
W/VIEW PANEL

(C)

FLUSH H.M.
SECURITY
W/VIEW PANEL
& FOOD PASS



(D)

FLUSH H.M.
SECURITY
W/VIEW PANEL

(E)

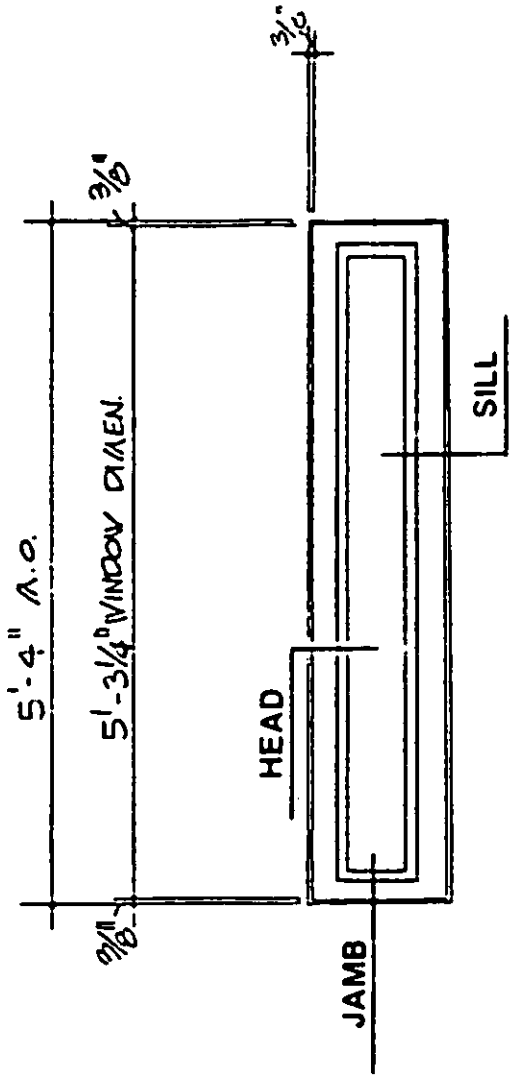
FLUSH H.M.
SECURITY
W/VIEW PANELS

TITLE
Security Doors

DATE
APR. 88

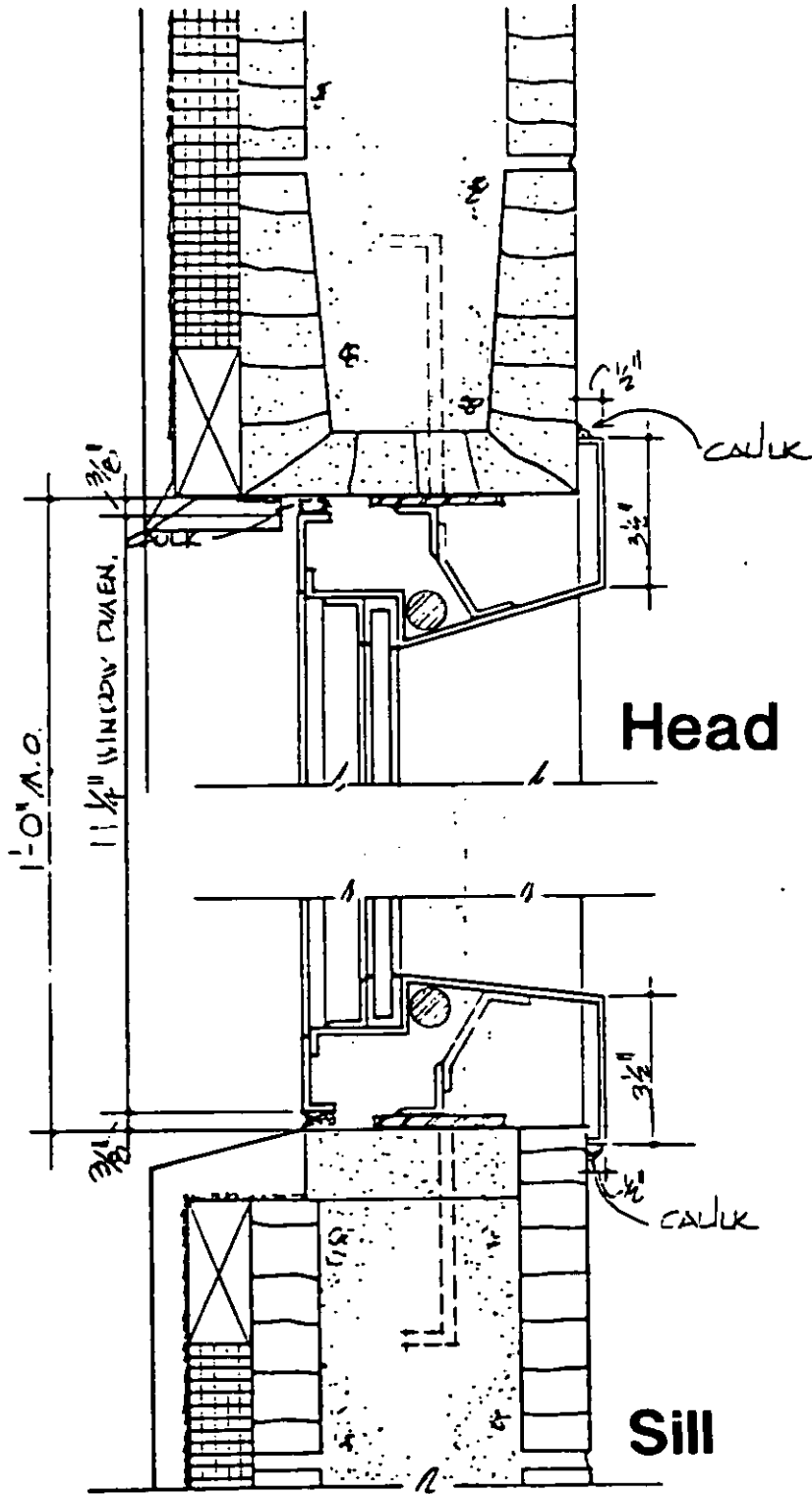
CATEGORY CODE
730-15

FACILITY
PLATE NO
74

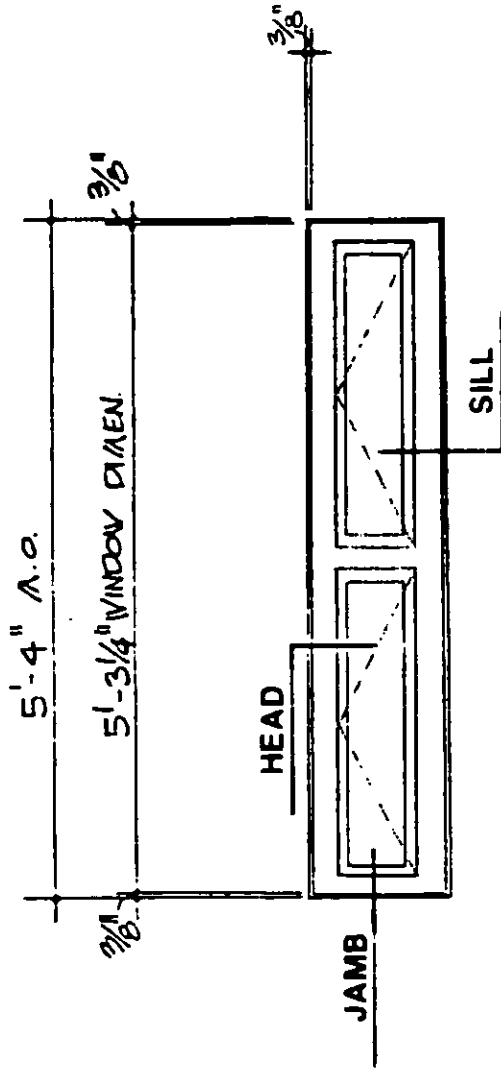


TITLE Fixed Cell Window Elevation	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 75
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MIL-HDBK-1037/4

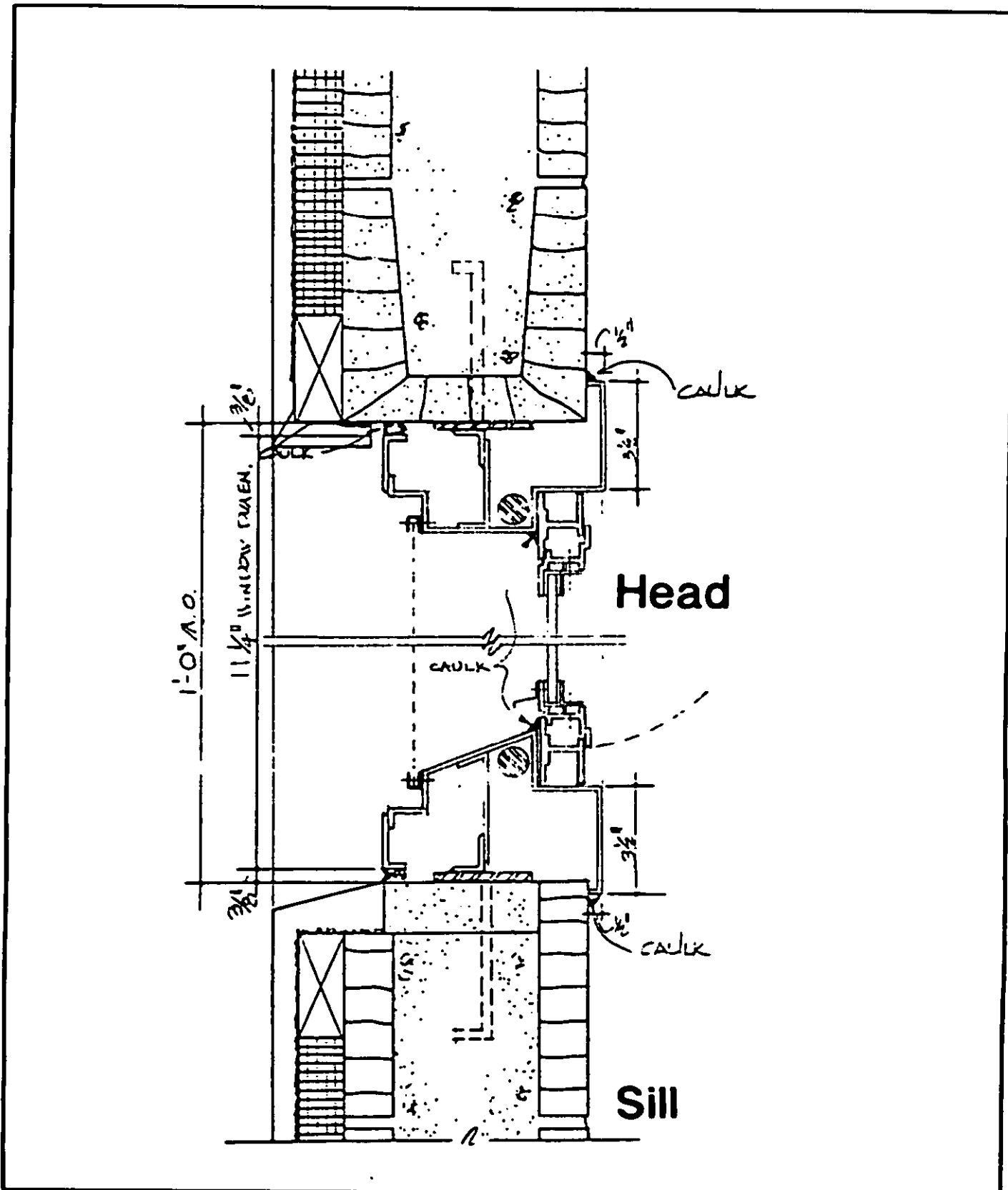


TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Fixed Cell Window Details	APR. 88	730-15	76

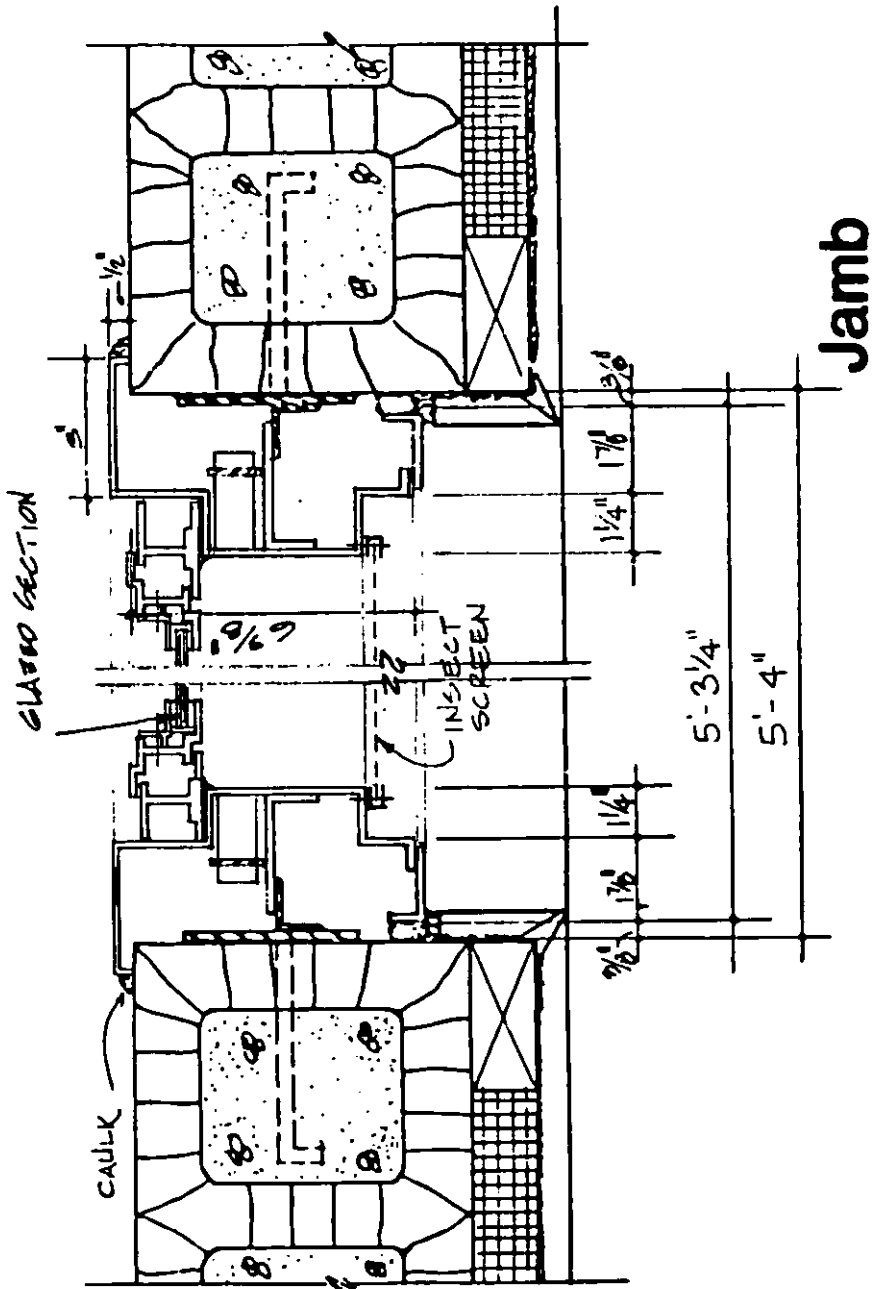


Note:
 Windows shall be designed for manual operation from the inside without creating an opening through which contraband could be passed.

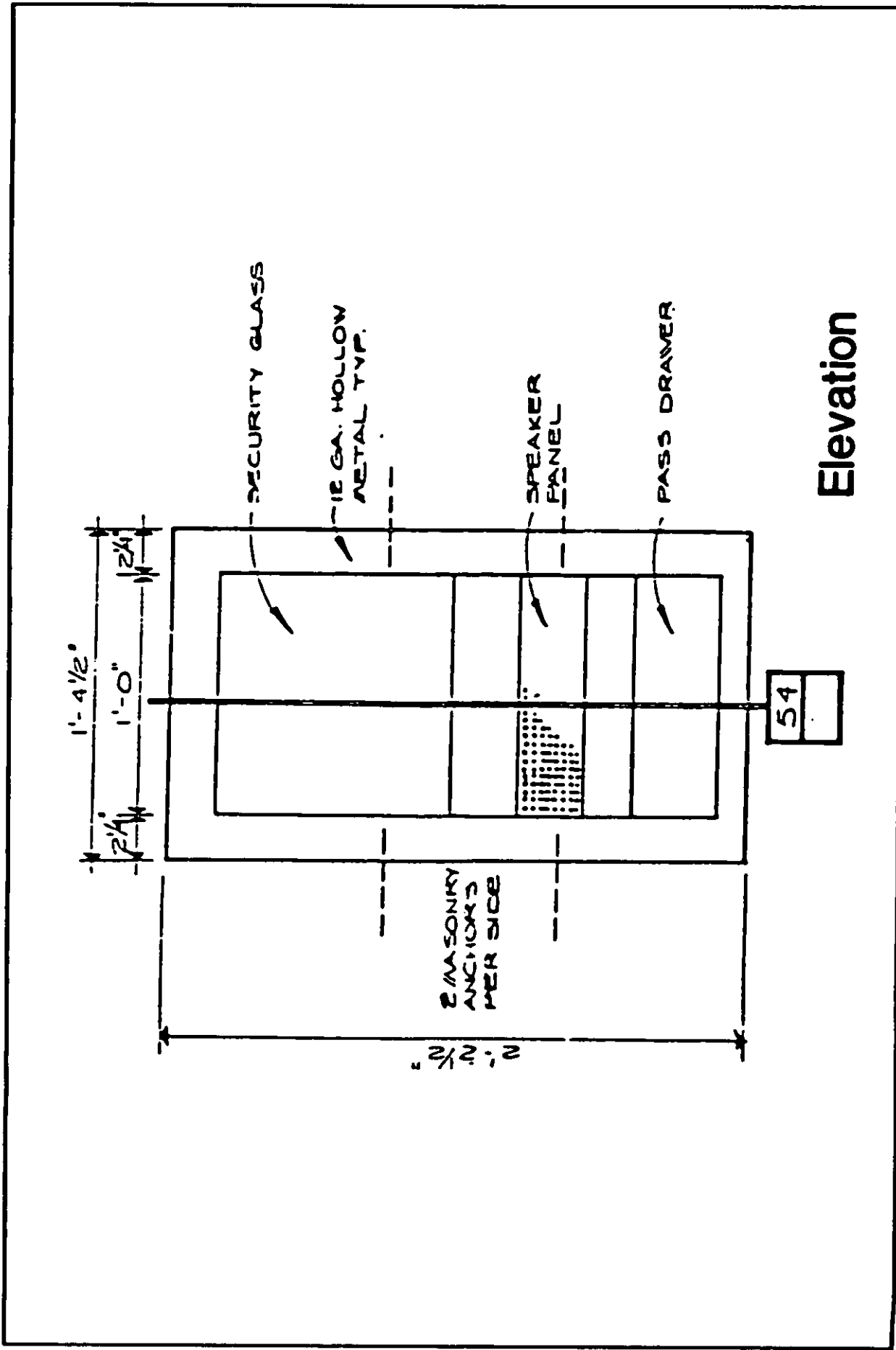
TITLE Operable Cell Window Elevation	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 78
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TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Operable Cell Window Details	APR. 88	730-15	79

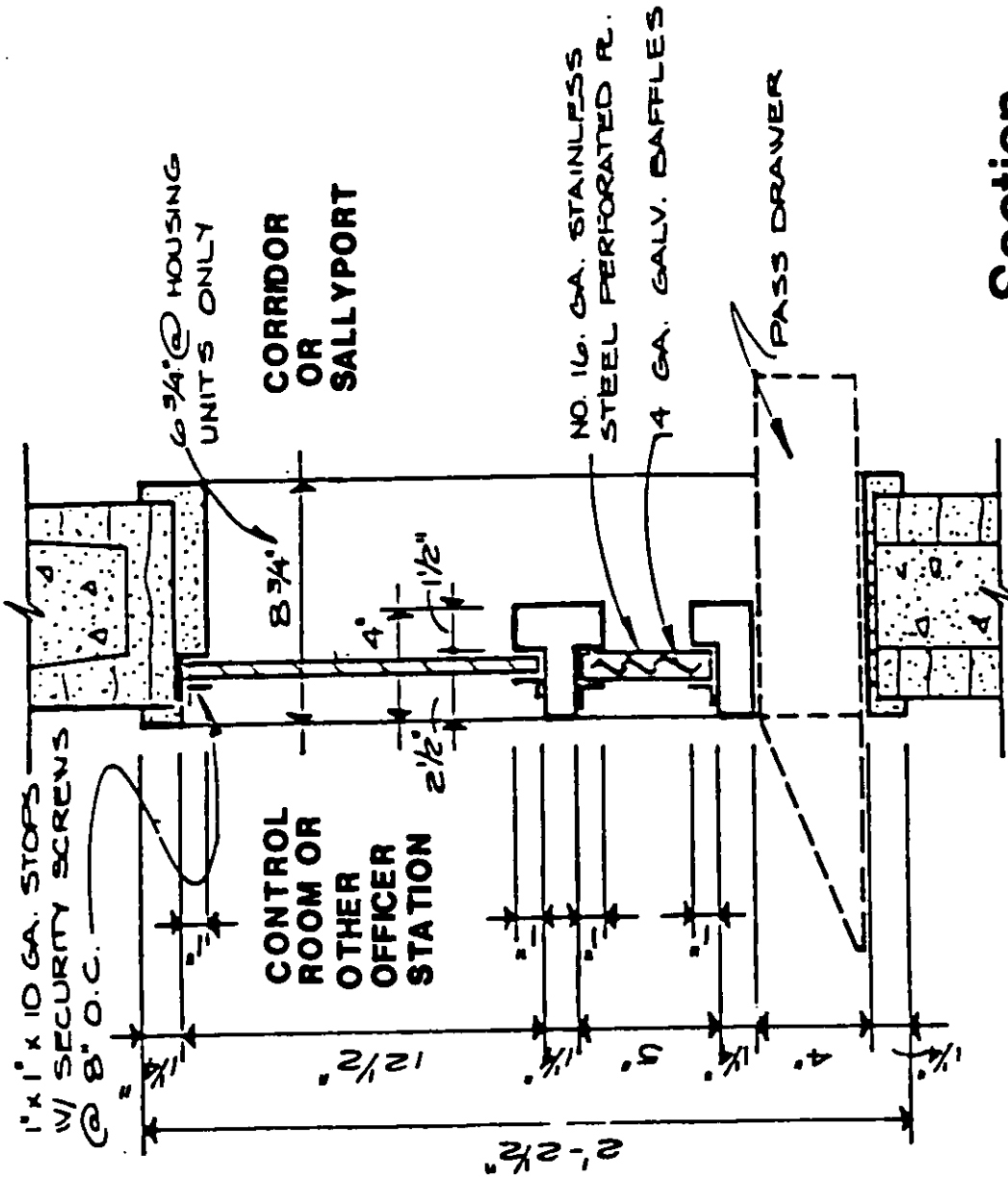


TITLE Operable Cell Window Details	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 80
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Elevation

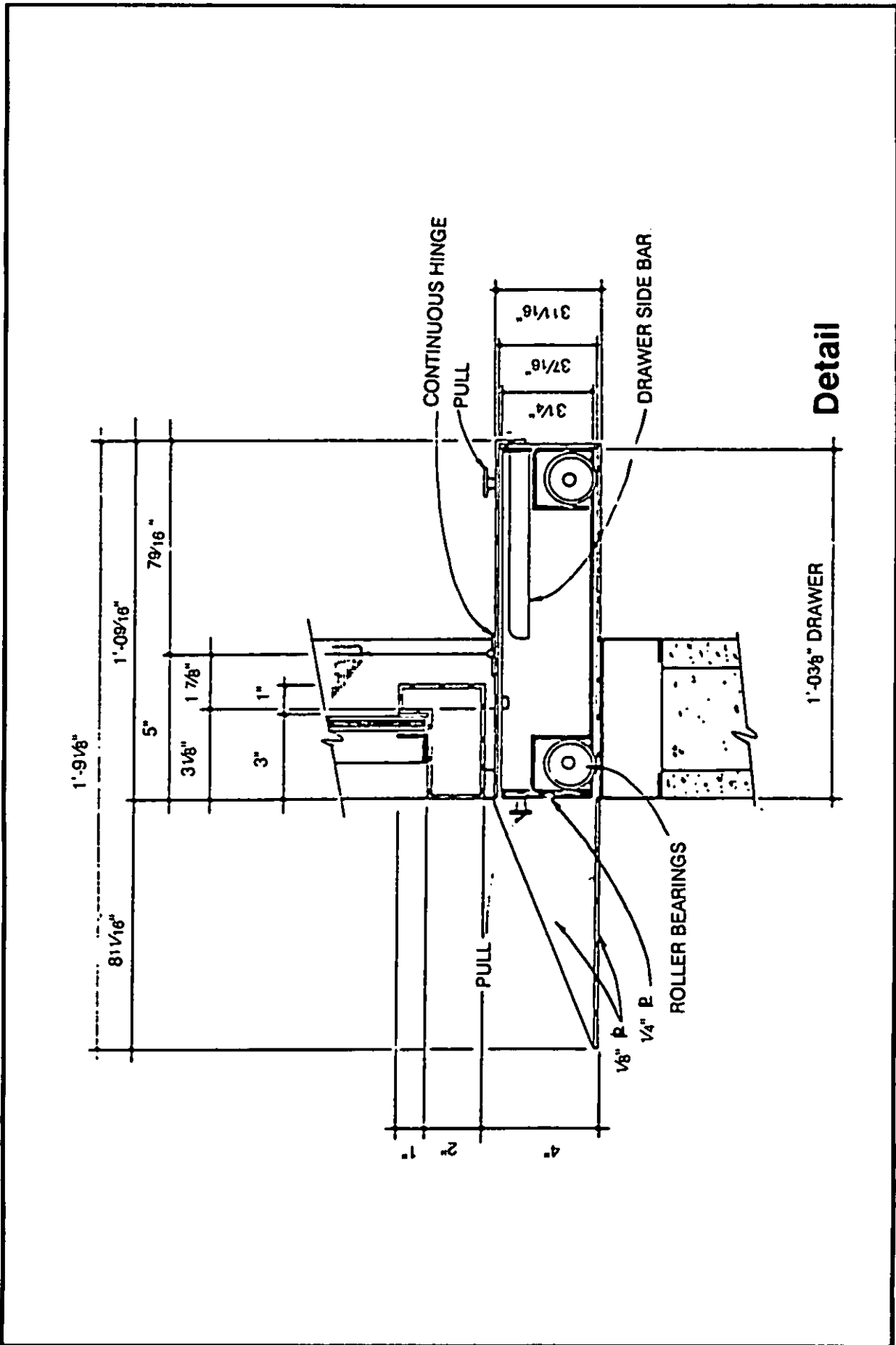
TITLE Pass Window	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 81
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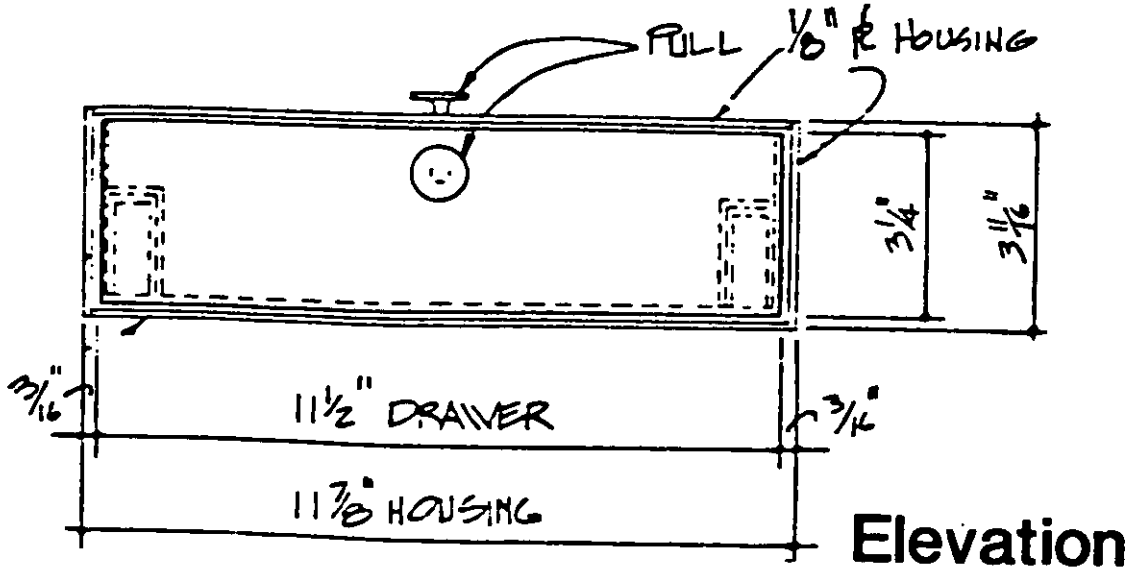
Section

FACILITY PLATE NO	CATEGORY CODE	DATE	TITLE
82	730-15	APR. 88	Pass Window

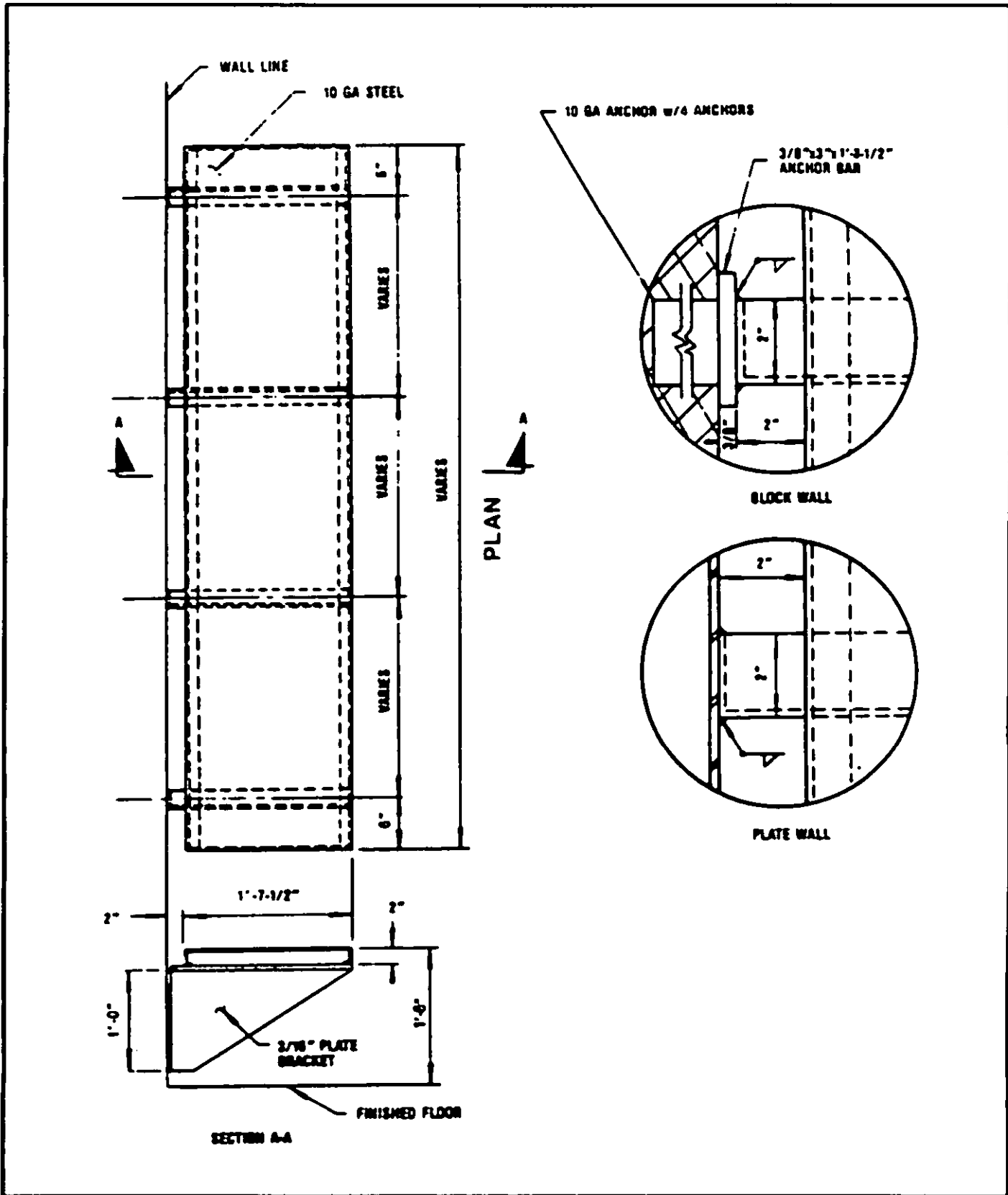
MIL-HDBK-1037/4



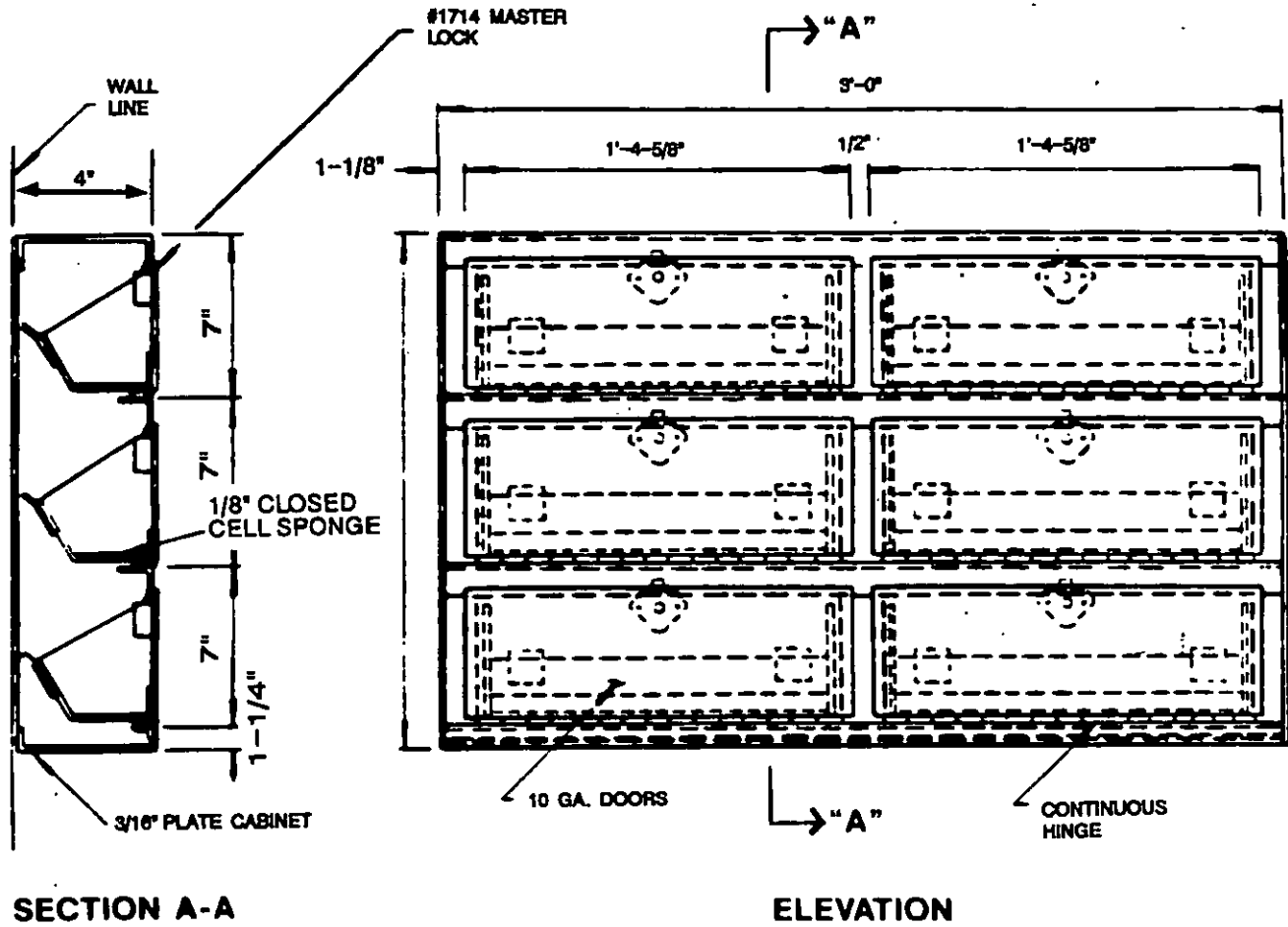
FACILITY PLATE NO 83	CATEGORY CODE 730-15	DATE APR. 88	TITLE Pass Drawer
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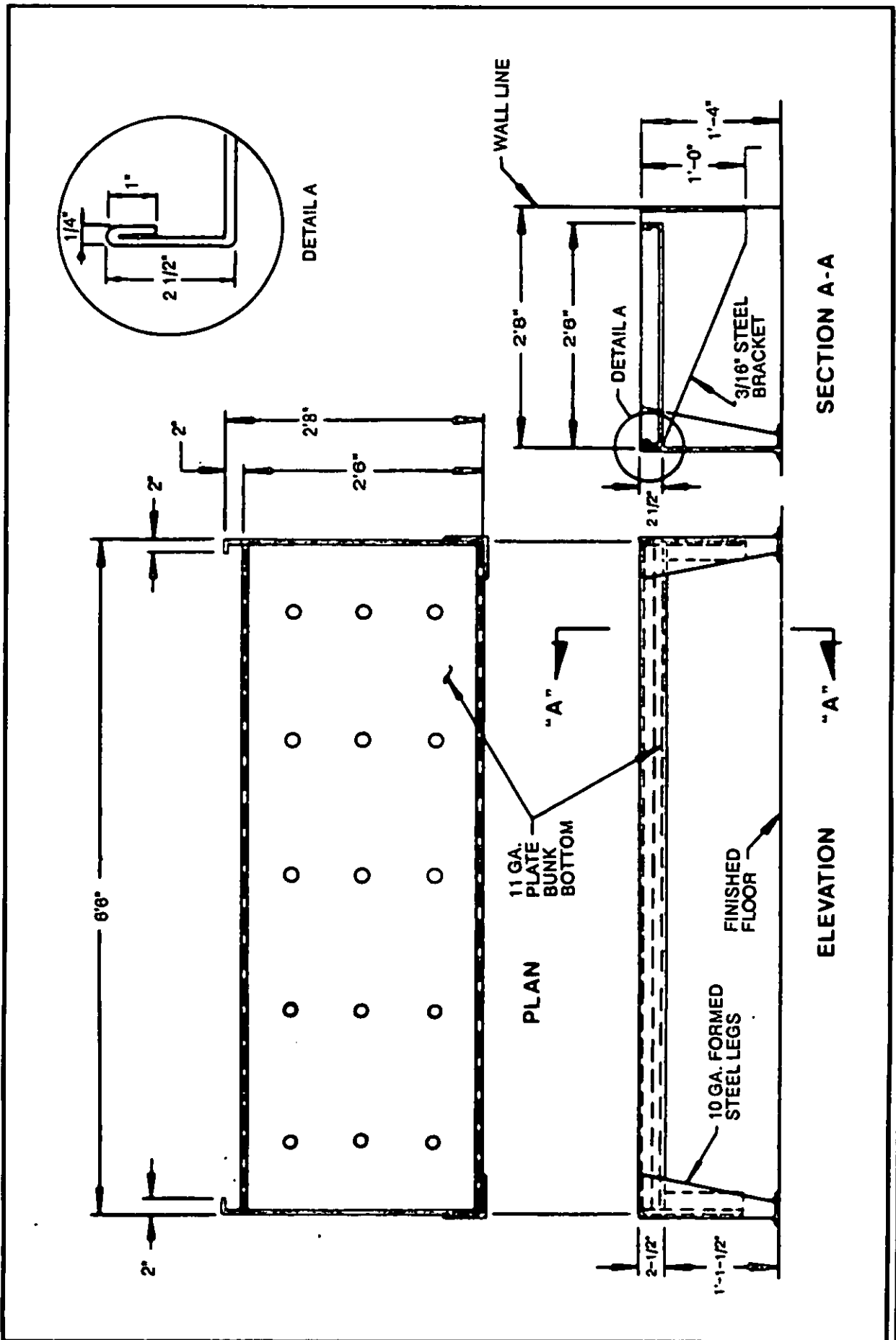
<p>TITLE Pass Drawer</p>	<p>DATE APR. 88</p>	<p>CATEGORY CODE 730-15</p>	<p>FACILITY PLATE NO 84</p>
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TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Benches Wall-Mounted Steel	APR. 88	730-15	85

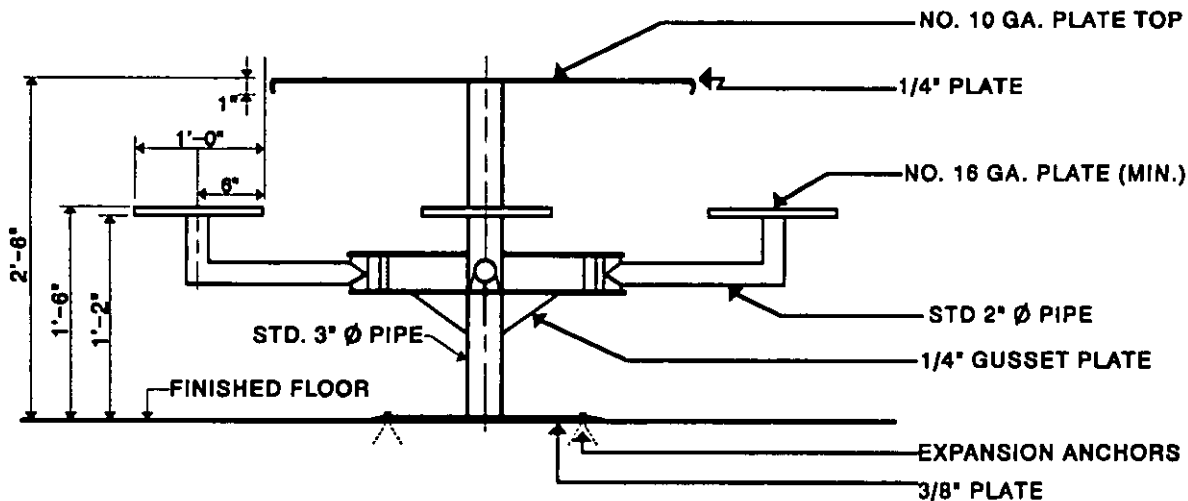


TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Pistol Lockers 6-Gun (Bucket Type)	APR. 88	730-15	86

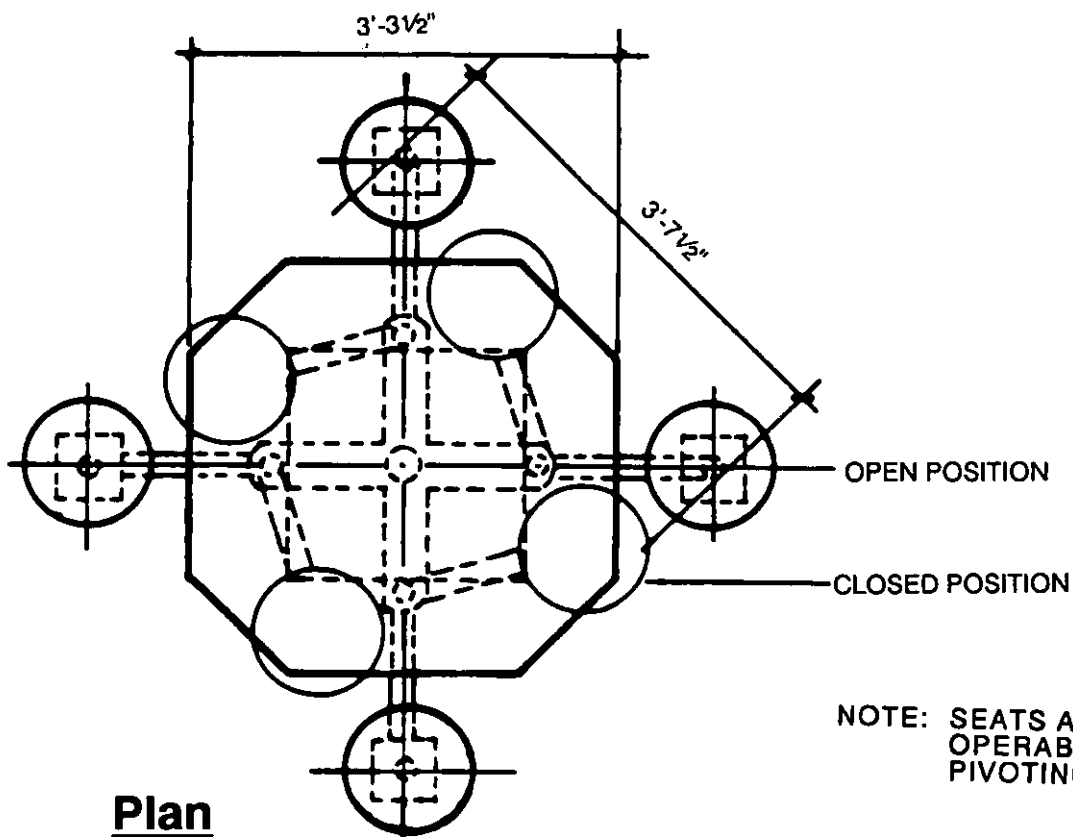


FACILITY PLATE NO 87	CATEGORY CODE 730-15	DATE APR. 89	TITLE Bunks Floor/Wall Mounted Single
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Elevation



NOTE: SEATS ARE OPERABLE PIVOTING

TITLE Tables 4-Man with Operable Pivoting Seats

DATE APR. 88

CATEGORY CODE 730-15

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3.26 Structural. The criteria stated below and the systems indicated in the prototype design do not preclude the use of other structural systems more common in the local market, provided that they meet the performance, safety, and security requirements established herein.

3.26.1 Foundations. The type of foundation to be used shall be appropriate for local soil conditions as established by on-site test data performed by an approved testing laboratory. Foundations shown on the criteria drawings are intended only to indicate the general arrangement of spread footings, the sizes of which shall be based upon the soil bearing capacities of the selected site.

3.26.2 Framing. Structural framing shall be metal roof deck on wide-flange structural steel members which are supported on grout-filled and reinforced concrete masonry unit (CMU) walls. Beams may be supported by embedment of weld plates in cast-in-place concrete bond beams atop the CMU walls, or by embedded projecting bolts in the bond beams. Beam connections may be either bolted or welded. In order to meet seismic design considerations, the metal roof deck shall be used to transfer lateral forces to the walls.

In addition to CMU bearing walls, concrete and steel columns have been utilized for beam support on the criteria drawings.

3.27 Electrical

3.27.1 Compound Lighting. The area surrounding the brig shall be lighted by high-pressure sodium fixtures on 45-foot (13.72 m) poles to illuminate the area to 1.0 or 1.5 footcandle. Wiring service systems shall be buried so they will be inaccessible to prisoners. All lights shall be connected to the emergency generator system. Lights may operate on either a timer switch or photo-cell system. Walkways used by prisoners and staff shall be lighted. Lighting shall be designed so that it does not interfere with prisoner sleeping berths. Fixtures shall be vandal-proof.

3.27.2 Switches. All electrical wall plates shall be nylon, in compliance with UL 514C, Nonmetallic Outlet Boxes, Flush-Device Boxes, and mounted with spandrel head screws in prisoner/awardee housing areas. Electrical outlets in all prisoner areas shall have nylon cover plates. Cells shall not have electrical outlets. All lighting and appliance panelboards serving prisoner areas shall be located in sight of the control officer station, but not in the prisoner area in order to provide easy access to override possible prisoner disturbances of branch circuits. Electrical systems shall be designed to facilitate the use of a Management Information System.

3.27.3 Lighting Fixtures. Lighting shall be not be less than 20 footcandles at 30 inches above finished floor. Two levels of illumination shall be provided in the dayroom or dorm space, but the night lighting shall not interfere with prisoner sleeping. The cell lighting fixture shall be in accordance with NAVFAC NFGS-16510, Interior Lighting, installed in a manner to eliminate cracks or crevices above or around the fixture where contraband could be concealed. Light fixtures in dormitories shall be institutional

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type, but shall be tamper-resistant. Lighting fixtures for all other areas of the brig shall conform to requirements in MIL-HDBK-1004/4, Electrical Utilization System.

3.27.4 Emergency and Exit Lighting. An emergency lighting and exit light system shall be provided in accordance with NFPA 101. Provide 1 footcandle in the path of egress. Light fixtures in cell and dormitory areas shall be recessed in the wall with opening flush with wall.

3.27.5 Control Rooms. Light fixtures in control rooms shall be low brightness incandescent downlights on dimmers so that lighting levels may be varied to provide maximum visibility. The control room operator shall have the capability to dim lighting levels in the control room, in the cell and dormitory dayroom areas, and in the sally ports leading to the cell and dormitory areas.

3.27.6 Emergency Power System. A standby service of sufficient capacity to serve all emergency loads shall be provided in accordance with MIL-HDBK-1004/4. Essential loads are as follows:

- a) Exterior lighting and building egress lighting.
- b) All public address and intercom system components.
- c) All locking control panels and associated equipment.
- d) Fire alarm systems.
- e) Heating and ventilating equipment (not air conditioning); where rooftop units are used, they shall be wired so that the fan is on emergency power and the compressor is on normal power.
- f) Smoke removal fans.
- g) Minimal kitchen equipment (example: control voltage for gas-operated equipment).
- h) Roll-up doors for prisoner receiving/release.
- i) Minimal lighting (5 footcandles) in individual cells and in group prisoner areas.
- j) All control room lighting.
- k) Equipment necessary to provide heating, not only for personnel comfort, but to prevent damage to buildings due to freezing.
- l) Officers Watchtour System at cell blocks.

3.28 Television Signal Distribution System (TSDS). Central television signal distribution system shall be provided for distribution of locally generated television programs. System shall provide for both color and black and white programs, with channels of program distribution. Outlets shall be provided in each day space area.

3.29 Communications

3.29.1 Housing Unit. A stand alone, two-way public address monitoring system between control station and all prisoner areas shall be provided.

3.29.2 Intercommunication. A two-way intercommunication system shall provide Central Control with the ability to communicate with each control station, other administrative areas and security locations.

3.29.3 Public Address. A facility-wide, one-way public address system from Central Control to designated interior and exterior areas of assembly and to each housing area shall be provided. Booster amplifiers shall be used for additional audio power in areas with high ambient noise levels.

3.29.4 Telephone System. Conduit system and equipment space shall be provided throughout the facility for a public utility telephone system. The system switchboard shall be located in the facility's administrative area; the night answering station shall be located in Central Control. Prisoner telephones shall be programmed for local and collect calls only.

3.29.5 Emergency Power. All communications systems shall be connected to the emergency power system.

3.30 Watchtour System. The Watchtour System shall be provided with a system keyboard/printer with integral time clock for hardcopy printout of watch-tour and corresponding time and date. Watchtour stations shall annunciate individually at the watchtour control panel located in Central Control. Three start-tour key switches (corbin type) shall be provided at the Watchtour Control Station, labeled Medical Officer, Control Officer, and Commanding Officer for individual identification of watchtour. The three start switches shall be keyed differently; however, the start switches and the cell check-in stations shall all be keyed alike. An alarm shall be generated at 15 minute intervals at the Watchtour control panel to alert the guard to begin watchtour. The time interval shall be programmable through the system time clock.

3.31 Fire Alarm System

3.31.1 Housing Unit. An independent, dc-powered, supervised, zoned smoke detection system for prisoner rooms shall be provided. Smoke detectors shall be located in the exhaust air system, which shall be nonaccessible to prisoners. Alarm, trouble and zone annunciation signals shall report to the facility fire alarm panel located in Central Control. The local smoke control system shall be integrated into each housing unit smoke detection system for automatic activation.

3.31.2 Central System. The fire alarm system shall be integrated into the Central Control fire alarm system to provide a total system for the automatic and manual transmissions of fire alarm signals. The system shall be independently wired. Manual signal initiation devices shall be restricted to locations not accessible to prisoners. Automatic signal initiation devices, such as area smoke detectors, duct smoke detectors and area thermal detectors shall be installed in unsupervised areas which warrant automatic fire/smoke detection by virtue of contents, use or location. Automatic system alarm

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signals shall be restricted to areas other than prisoner housing; audible signals in housing areas shall be manually activated from the local control room. Locally initiated audible alarm signals, in conjunction with housing unit public address and monitoring systems and emergency evacuation procedures, are intended to provide controlled egress in an emergency without panic and without compromising security.

3.32 Locking System

3.32.1 Housing Unit. Locking control panels shall be positioned in Central Control for line-of-sight observation of doors to be controlled. Housing unit control panels shall contain controls for "group release" of prisoner room doors and a sally port interlock bypass for emergency egress.

3.32.2 General Areas. Electric-operated and monitored doors in areas other than housing areas shall be controlled from locking system control panels in a secured area control room with the panel positioned for line-of-sight observation of the doors to be controlled. Where line-of-sight observation cannot be obtained, door position monitoring and a local intercom system shall be installed for positive identification. Exterior doors of the correctional custody unit shall be lockable from the outside to prevent uncontrolled ingress; however, these doors shall have panic bars to ensure free egress.

3.32.3 Sally Ports. All sally ports shall be interlocked to prevent simultaneous operation of sally port doors. Where a sally port serves as an emergency egress, interlock by-pass controls shall be provided.

3.32.4 Operation Criteria. All doors controlled from Central Control, either as prime point of control or as redundant control, shall be continuously monitored for secured open status at Central Control.

3.32.5 Control Console. Locking system control panels shall provide graphic display for positive identification of doors to be controlled. All control devices and pilot lamps shall be modular devices. All pilot lamps shall be light emitting diodes (LEDs) with an average life of 50,000 hours at 24 volts ac. LEDs in all locking system control panels shall operate at 24 volts ac. Each panel shall contain press-to-test controls for all LEDs.

3.33 Air Conditioning, Heating and Ventilation. The criteria stated below and the systems indicated in the prototype design do not preclude the use of other systems common to the local market, provided they meet the performance, safety and security requirements established herein.

3.33.1 Related Criteria. Refer to NAVFAC DM-3.03, Heating, Ventilating, Air Conditioning, and Dehumidifying Systems, and MIL-HDBK-1190, Facility Planning and Design.

3.33.2 Design Conditions

a) Indoor Temperature -- Shall comply with MIL-HDBK-1190 for comfort cooling and heating.

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b) Outdoor Temperatures -- Shall comply with MIL-HDBK-1190 for non-critical areas.

c) Ventilation -- Shall comply with NAVFAC DM-3.03.

3.33.3 Equipment. Equipment shall be selected in accordance with NAVFAC DM-3.03. Air handling equipment, boilers, chillers, pumps, etc., shall be separated from prisoner areas and prisoner access areas by security walls.

3.33.4 Air Distribution

a) Ductwork within prisoner areas and prisoner access areas at less than 12 ft. above the floor shall be isolated from prisoners by ceilings, chases, or soffits complying with prisoner construction materials discussed in paras. 3.21 and 3.24 herein. Where ductwork with a height or width exceeding 6 inches (152.4 mm) intersects a security wall or floor, security bars shall be installed. Where ductwork intersects the roof, security bars shall be installed. See Facility Plates showing security bars.

b) Grilles, Registers, and Diffusers in prisoner areas and areas accessible to prisoners shall be as specified in NAVFAC NFGS-15850, Air Handling and Distribution Equipment. See Facility Plates showing grilles, registers, and diffusers.

3.33.5 Piping. Piping within prisoner housing areas and areas accessible to prisoners if less than 12 feet above the floor shall be isolated from prisoners by ceilings, chases or soffits complying with construction materials discussed in paras. 3.21 and 3.24 herein. Valves shall be located where accessible; where this is impossible due to construction, security access panels shall be used for access.

3.33.6 Smoke Control. Prisoner areas shall have an engineered smoke control system. Design shall comply with NFPA 90A, Standard for the Installation of Air Conditioning and Ventilating Systems.

3.33.7 Control. Air conditioning, heating and ventilation control devices for prisoner housing areas and areas accessible to prisoners shall be located outside the prisoner area with the exception of temperature sensors. Temperature sensors in cell blocks and in prisoner holding shall be located in toilet exhaust ducts. Temperature sensors in other prisoner housing or areas accessible to prisoners shall be installed in a secured enclosure.

3.33.8 Air Conditioned Spaces. The following spaces require air conditioning (refer to MIL-HDBK-1190 for criteria on providing air conditioning in spaces not covered):

a) Administration areas (computer spaces that require both temperature and humidity control).

b) The cell blocks and Dorm A. In addition, because of security considerations, there are no outside openings larger than five inches.

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c) The control center (an independent air handling system is required because it must operate during emergency conditions that may include gas and/or smoke in other sections of the building).

d) Multi-purpose rooms and the library/legal interview room.

3.34 Plumbing

3.34.1 Related Criteria. Refer to NAVFAC DM-3.01, Plumbing Systems.

3.34.2 Equipment. Water heaters, pumps, etc., shall be separated from prisoner areas and prisoner access areas by security walls. Equipment selection shall be in accordance with NAVFAC DM-3.01.

3.34.3 Fixtures. Plumbing fixtures in administrative and support areas shall be standard quality complying with NAVFAC NFGS-15400, Plumbing. Plumbing fixtures in prisoner housing areas and areas accessible to prisoners shall be security type complying with NAVFAC NFGS-15400 and requirements herein.

a) One Male and Female Pretrial/"Bread and Water" cell shall have a floor-mounted stainless steel water closet and a wall-hung stainless steel lavatory with concealed pushbutton controls. The water closet bowl shall be a back outlet blowout type with integral seat. The lavatory shall have a bubbler spout and fast drain.

b) Each typical cell shall have a floor-mounted back outlet vitreous china water closet with integral seat and concealed pushbutton controls and vitreous china lavatory with bubbler spout, concealed trap, and concealed hot and cold water pushbutton controls. Shower stalls shall have panel-mounted, non-adjustable shower heads with panel-mounted hot and cold water valves. Shower drains shall be secured with tamper-resistant screws.

c) In Dorm A and CCU dormitories, there shall be provided floor-mounted, back outlet vitreous china water closets with integral seats and exposed flush valves. The lavatories shall be wall-hung vitreous china with spring loaded pushbutton hot and cold water faucets. The shower stalls shall have panel-mounted, non-adjustable type shower heads with hot and cold pushbutton water valves. The shower drain shall be secured with tamper-resistant screws.

d) Each prisoner holding cell shall have a floor-mounted stainless steel water closet and a wall-hung stainless steel lavatory with concealed pushbutton controls. The water closet bowl shall be a back outlet blowout type with integral seat. The lavatory shall have a bubble spout and fast drain.

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3.34.4 Piping. Piping within prisoner housing areas and areas accessible to prisoners if less than 12 feet above the floor shall be isolated from prisoners by ceilings, chases or soffits complying with prisoner construction materials discussed in paras. 3.21 and 3.24 herein. Valves shall be accessible; where this is impossible due to construction, security access panels shall be used for access. Plastic piping shall not be used either in prisoner housing areas or in areas accessible to prisoners. Plastic piping shall not penetrate fire walls.

3.35 Fire Suppression

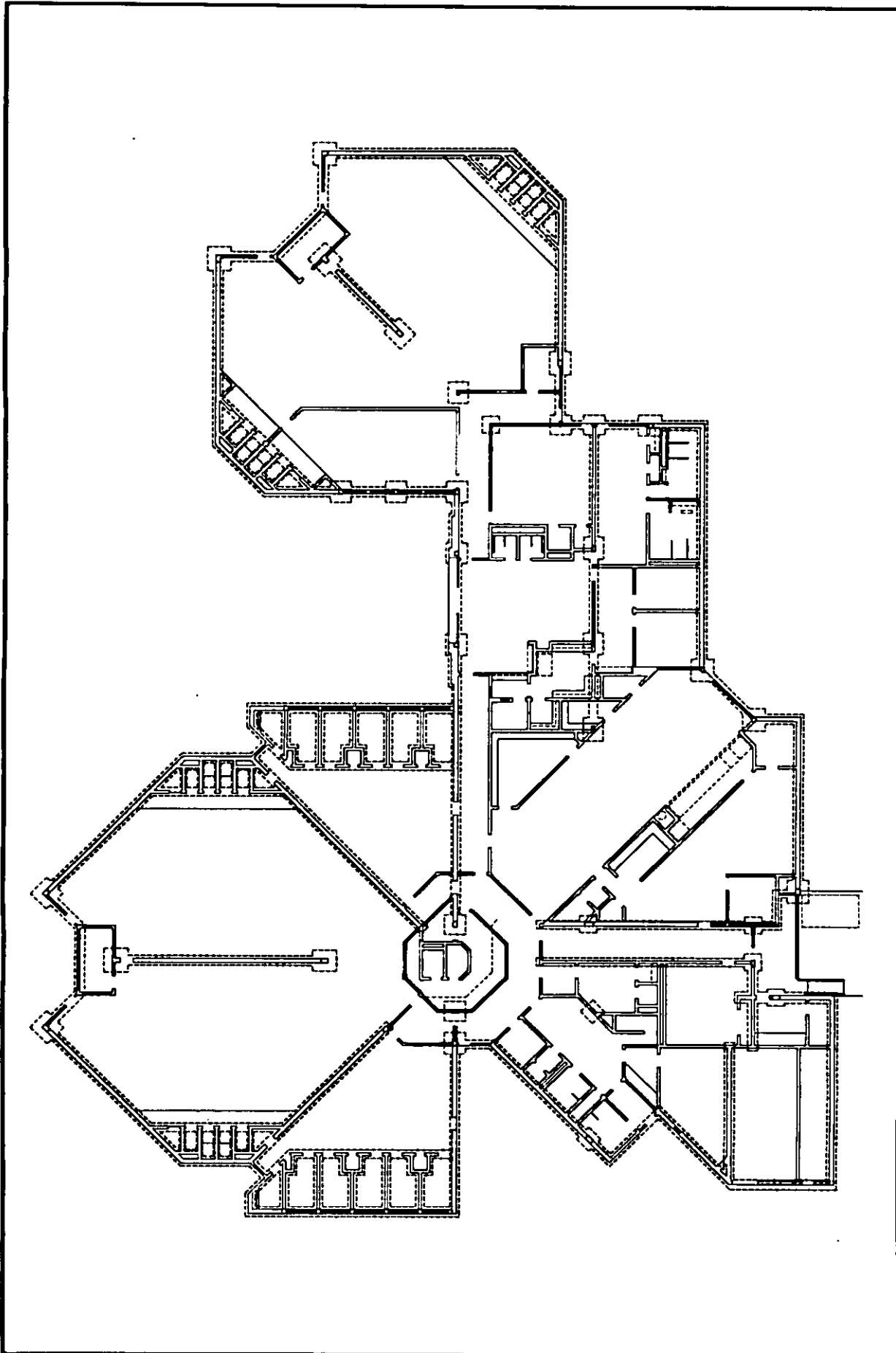
3.35.1 Related Criteria. Refer to NFPA-101.

3.35.2 Prisoner Housing. Sprinkler heads in prisoner housing areas shall be the sidewall type where the head is within reach of the prisoner.

3.35.3 Piping Protection. Piping within prisoner housing areas and areas accessible to prisoners if less than 12 feet above the floor shall be isolated from prisoners by ceilings, chases or soffits complying with prisoner construction materials discussed in paras. 3.21 and 3.24 herein. Valves shall be located where accessible; where this is impossible due to construction, security access panels shall be used for access. Plastic piping shall not be used either in prisoner housing areas or areas accessible to prisoners.

Plastic piping shall not penetrate fire walls.

3.35.4 Zoning. Prisoner housing shall be zoned separate from administration and support areas.



TITLE Foundation Plan	DATE APR. 88	CATEGORY CODE 730-15	FACILITY PLATE NO 89
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NOTES:

1. FOUNDATION DEPICTED ON THIS DRAWING IS INTENDED SOLELY TO INDICATE GENERAL ARRANGEMENT OF FOOTINGS FOR SPREAD FOUNDATIONS. THE TYPE OF FOUNDATION TO BE USED SHALL BE DETERMINED BY LOCAL GEOLOGICAL SUB-SURFACE CONDITIONS.
2. SLABS ON GROUND SHALL BE MINIMUM 4" THICK 3000 PSI CONCRETE. MINIMUM
3. SLAB REINFORCING SHALL BE 6 X 6 - W1.4 X W1.4 W.W.F.
4. LOAD BEARING MASONRY WALLS SHALL BE AS PER NOTE 6 ON FACILITY PLATE ENTITLED "FRAMING NOTES."
5. GROUT FOR FILLED C.M.U. WALLS SHALL BE 3000 PSI MINIMUM.
6. CONCRETE COLUMNS SHALL BE 4000 PSI CONCRETE.
6. REINFORCING STEEL SHALL BE GRADE 60.

TITLE

Foundation Notes

DATE

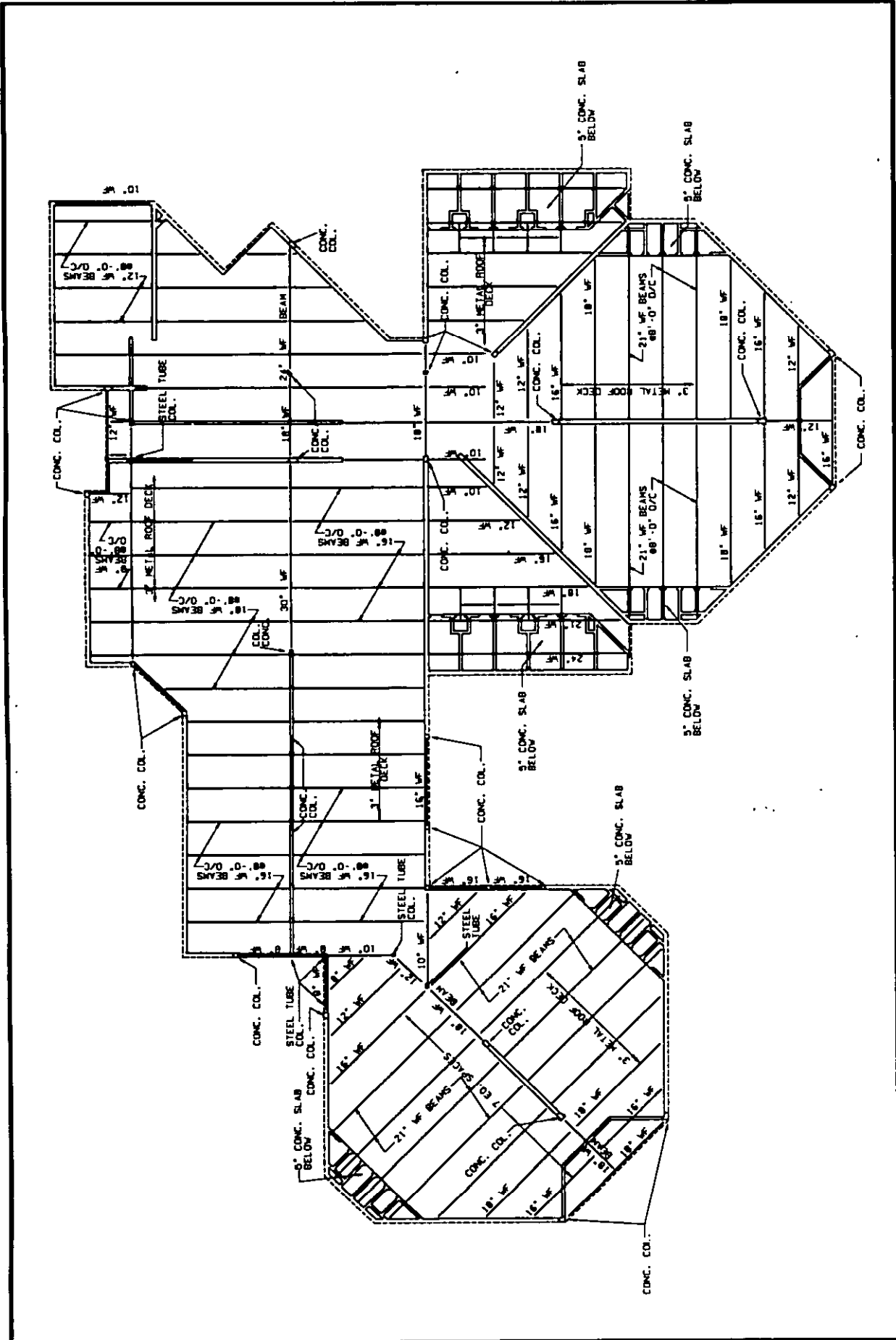
APR. 89

CATEGORY CODE

730-15

FACILITY
PLATE NO

90



FACILITY PLATE NO 91	CATEGORY CODE 730-15	DATE APR. 88	TITLE Framing Plan
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NOTES:

1. REPRESENTATIVE BEAM SIZES SHOWN ON THIS PLAN ARE BASED UPON THE FOLLOWING LOADS:
 DEAD LOAD - 30 P.S.F.
 LIVE LOAD - 20 P.S.F.
2. ACTUAL BEAM SIZES SHALL BE DETERMINED BY REQUIRED DESIGN CODE LOADS IN THE LOCAL AREA.
3. GAUGE OF METAL ROOF DECK SHALL BE DETERMINED BY REQUIRED DESIGN CODE LOADS AND/OR SEISMIC REQUIREMENTS UTILIZING THE ROOF DECK AS A DIAPHRAGM TO TRANSFER SEISMIC FORCES THRU THE BEAMS & WALLS TO THE FOUNDATION.
4. ALL DESIGN & DETAILS FOR SEISMIC CONDITIONS SHALL CONFORM TO "SEISMIC DESIGN FOR BUILDINGS," NAVPAC P-355.
5. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
6. ALL MASONRY BEARING WALLS SHALL BE MINIMUM 8" C.M.U. GROUT-FILLED & REINFORCED.
7. MINIMUM REINFORCING IN GROUT-FILLED C.M.U. BEARING WALLS SHALL BE #4@8" O/C VERTICAL.
8. CONCRETE BOND BEAMS SHALL BE MINIMUM 4000 PSI CONCRETE.

TITLE

Framing Notes

DATE

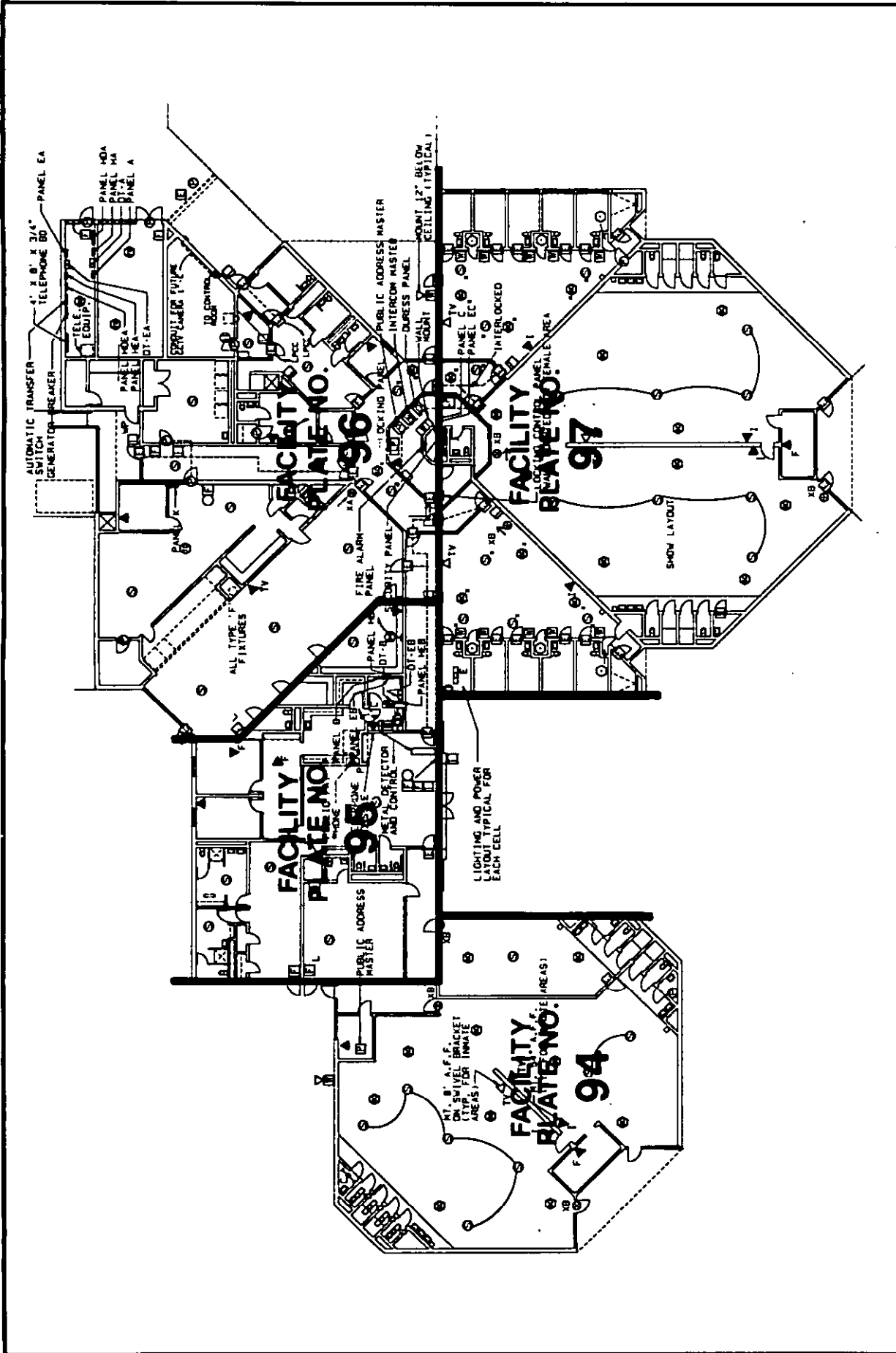
APR. 88

CATEGORY CODE

730-15

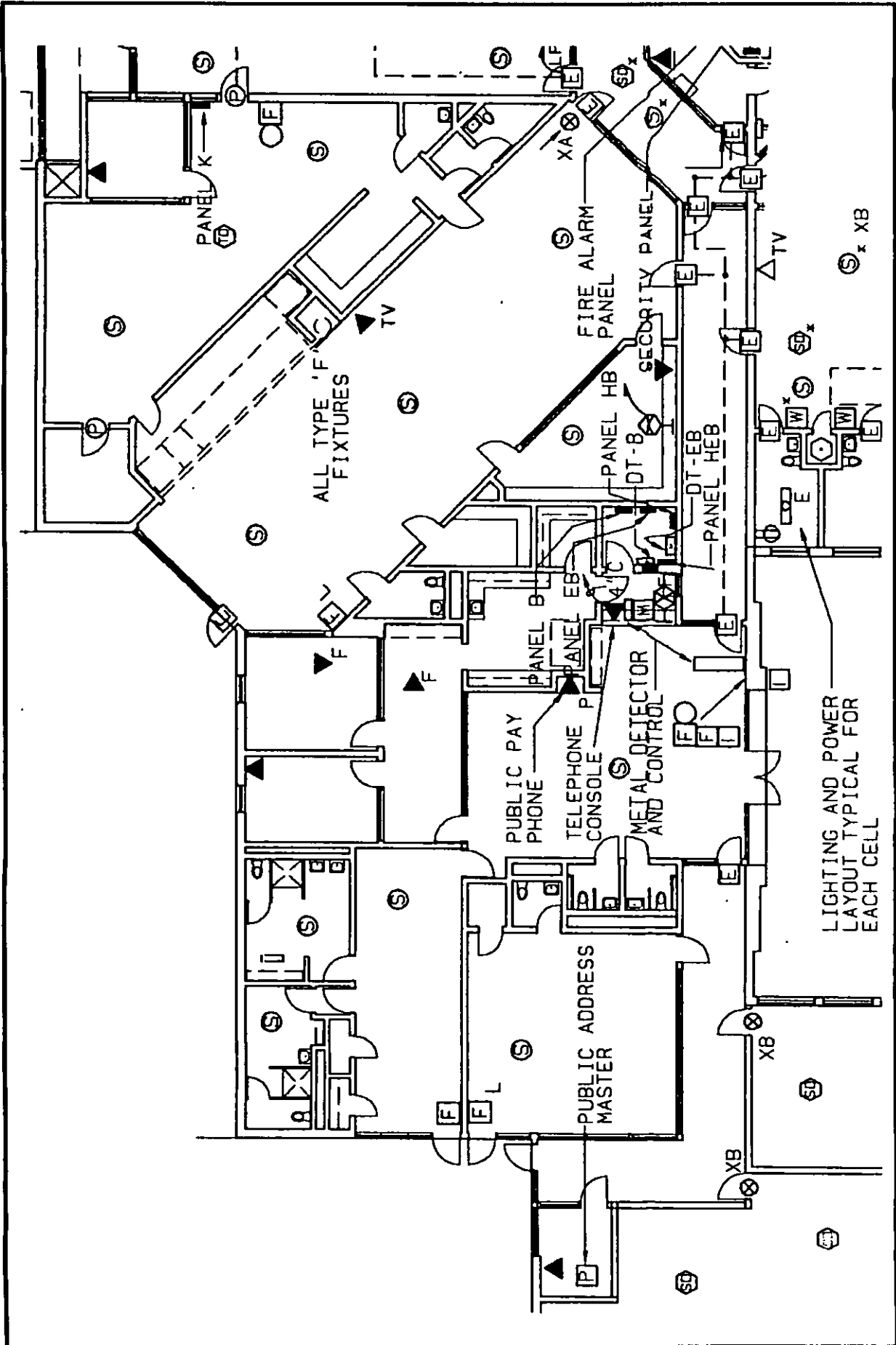
FACILITY
PLATE NO

92



FACILITY PLATE NO 93	CATEGORY CODE 730-15	DATE APR. 88	TITLE Electrical Plan
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MIL-HDBK-1037/4

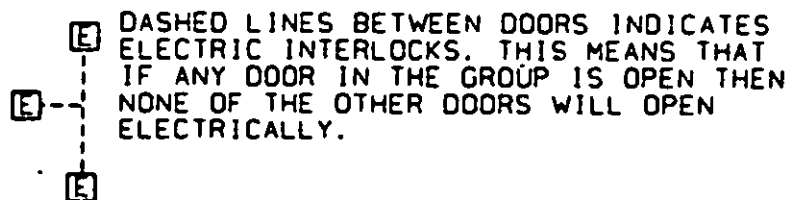


<p>TITLE Electrical Partial Plan</p>	<p>DATE APR. 88</p>	<p>CATEGORY CODE 730-15</p>	<p>FACILITY PLATE NO 95</p>
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MIL-HDBK-1037/4

- E** - ELECTRICALLY CONTROLLED LOCK
- P** - DOOR POSITION SWITCH
- LP** - LOCKING CONTROL PANEL
- FA** - FIRE ALARM PANEL
- SC** - SMOKE DETECTOR CEILING MOUNTED
- SO** - SMOKE DETECTOR CHASE MOUNTED
- TC** - THERMAL DETECTOR CEILING MOUNTED
- F** - MANUAL PULL STATION(L) INDICATES LOCKED BOX
- CF** - AUDIBLE AND VISUAL ALARM DEVICE
- D** - DURESS PANEL
- FX** - DURESS STATION(F) INDICATES FLOOR MOUNTED
- M** - INTERCOMMUNICATION MASTER PANEL
- I** - INTERCOM STAFF STATION
- P** - PUBLIC ADDRESS MASTER
- S** - PUBLIC ADDRESS CEILING MOUNTED SPEAKER
- W** - PUBLIC ADDRESS WALL MOUNTED HORN SPEAKER
(W) INDICATES WEATHER PROOF
- TV** - TELEVISION SYSTEM OUTLET
- ▲** - TELEPHONE OUTLET
- WT** - WATCHTOUR CONTROL PANEL
- W** - WATCHTOUR STATION

NOTES:

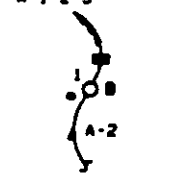































DASHED LINES BETWEEN DOORS INDICATES ELECTRIC INTERLOCKS. THIS MEANS THAT IF ANY DOOR IN THE GROUP IS OPEN THEN NONE OF THE OTHER DOORS WILL OPEN ELECTRICALLY.

PROVIDE SMOKE DETECTION THROUGHOUT FACILITY.
 PROVIDE PUBLIC ADDRESS THROUGHOUT FACILITY.

TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Security Legend	APR. 88	730-15	98

MIL-HDBK-1037/4

SYMBOL	DESCRIPTION
	<p>A-1-2-3 ADJACENT TO ARROW INDICATES HOME-RUN OF CIRCUITS 1-2-3 TO PANEL A. ARROW AND "A-2" INDICATE CIRCUIT CONTINUATION.</p> <p>MARKS ACROSS RACEWAY RUNS INDICATE THE NUMBER OF NO. 12 CONDUCTORS. UNLESS NOTED, NO MARKS INDICATES TWO NO. 12 CONDUCTORS. IF INDICATED ADJACENT TO OUTLET, NUMERAL AND LOWER CASE LETTER INDICATES CIRCUIT CONNECTION AND SWITCHLEG DESIGNATION RESPECTIVELY. TYPE B OR CAPITAL LETTER B INDICATES LIGHT FIXTURE TYPE UNLESS NOTED. DIMENSIONS INDICATED IN LEGEND AND ON PLANS ARE TO BOTTOM OF OUTLET OR DEVICE. ALL SYMBOLS INDICATED HEREIN MAY NOT NECESSARILY BE USED ON THE PLANS. REFER TO SPECIFICATIONS FOR SPECIFICATION OF DEVICES AND EQUIPMENT.</p>
	CEILING OUTLET AND FLUORESCENT FIXTURE
	CEILING OUTLET AND FLUORESCENT FIXTURE - EGRESS LIGHTING
	CEILING OUTLET AND FLUORESCENT FIXTURE - HALF OF LAMPS ON EGRESS CIRCUIT
	OUTLET AND FLOURESCENT STRIP FIXTURE - MOUNTING AS INDICATED IN FIXTURE SCHEDULE
	CEILING OR WALL OUTLET AND INCANDESCENT OR H.I.D. FIXTURE
	OUTLET AND EXIT LIGHT - LETTERS INDICATE MOUNTING AND FIXTURE TYPE
	CEILING OR WALL MOUNTED JUNCTION BOX
	DUPLEX RECEPTACLE - MT. 16" UP
	SPECIAL PURPOSE RECEPTACLE, CAPITAL LETTER INDICATES TYPE - REFER TO SPECS.
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE - MT. 48" UP AND/OR ABOVE COUNTER TOP OR AS INDICATED
	TELEPHONE OR SIGNAL BACKBOARD, 3/4" X 4" X 8" UNLESS NOTED
	PANELBOARD, SURFACE MOUNTED
	EQUIPMENT AS NOTED
	DRY-TYPE TRANSFORMER - VOLTAGE, PHASE, AND KVA AS INDICATED
	MOTOR, HORSEPOWER AS INDICATED
	NON-FUSIBLE DISCONNECT SWITCH, RATING/POLES/ENCLOSURE AS INDICATED
	MAGNETIC STARTER
	COMBINATION MAGNETIC STARTER/NON-FUSIBLE DISCONNECT SWITCH
	FIRE ALARM BREAKGLASS STATION - MT. 5'-5" UP
	SMOKE DETECTOR, CEILING MOUNTED
	THERMAL DETECTOR, CEILING MOUNTED
	GROUND
	CEILING OR WALL MOUNTED (88" TO TOP OF DEVICE) SPEAKER
	INTERCOM SYSTEM STAFF STATION - MT. 36" UP
	INTERCOM SYSTEM MASTER STATION
	FAN COIL UNIT OUTLET, COORDINATE MOUNTING WITH UNIT
	TELEVISION SYSTEM OUTLET - MT. 16" UP
	PUBLIC ADDRESS MASTER STATION
	ELECTRICALLY CONTROLLED LOCKING DEVICE

TITLE

Electrical Legend

DATE

APR. 88

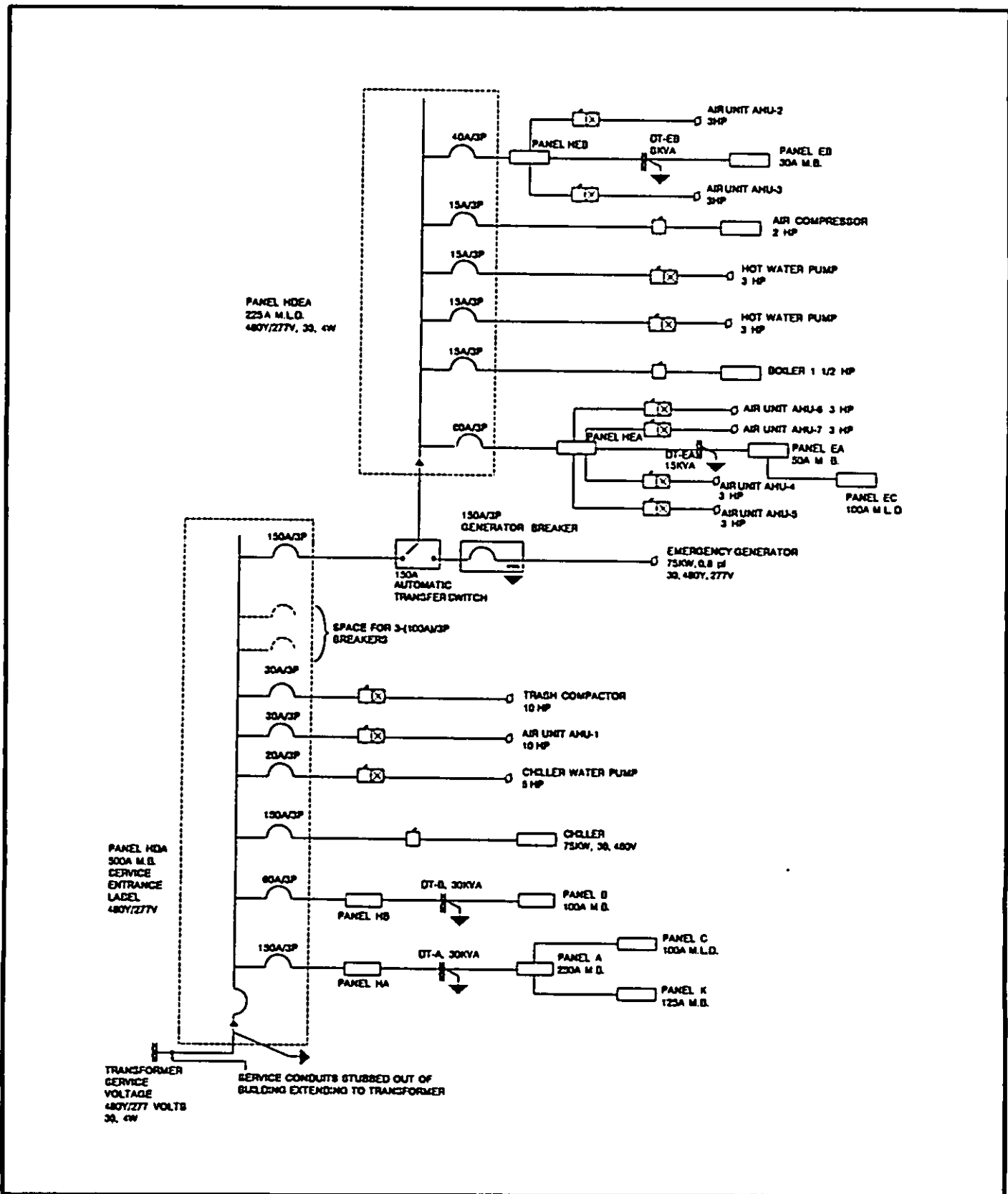
CATEGORY CODE

730-15

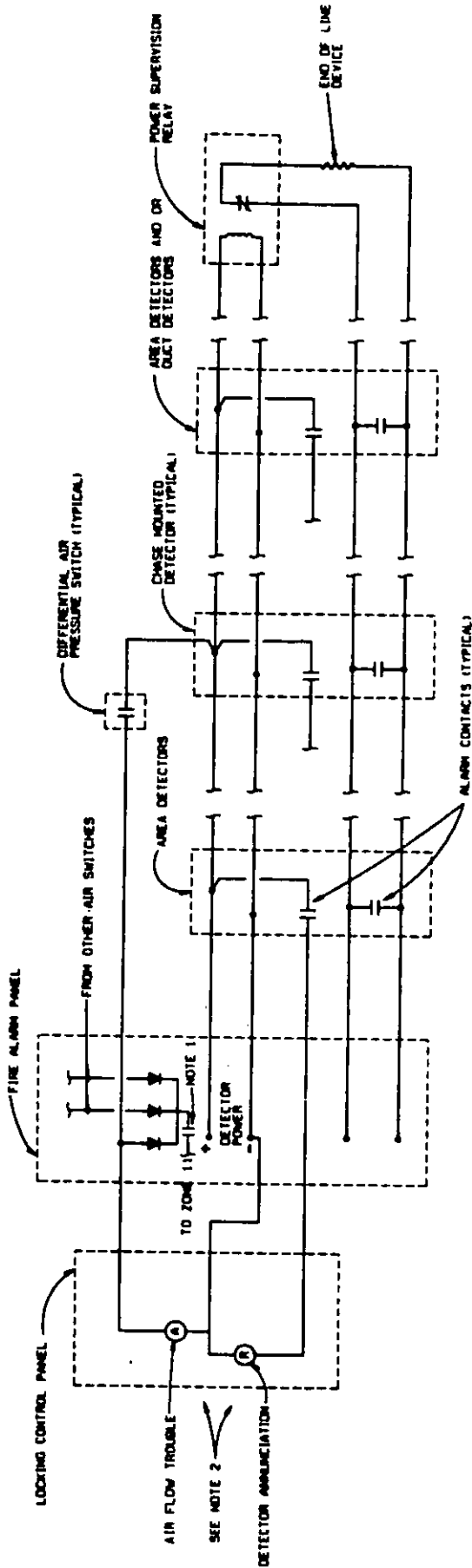
FACILITY
PLATE NO

99

MIL-HDBK-1037/4



TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Wiring Diagram	APR. 68	730-15	100

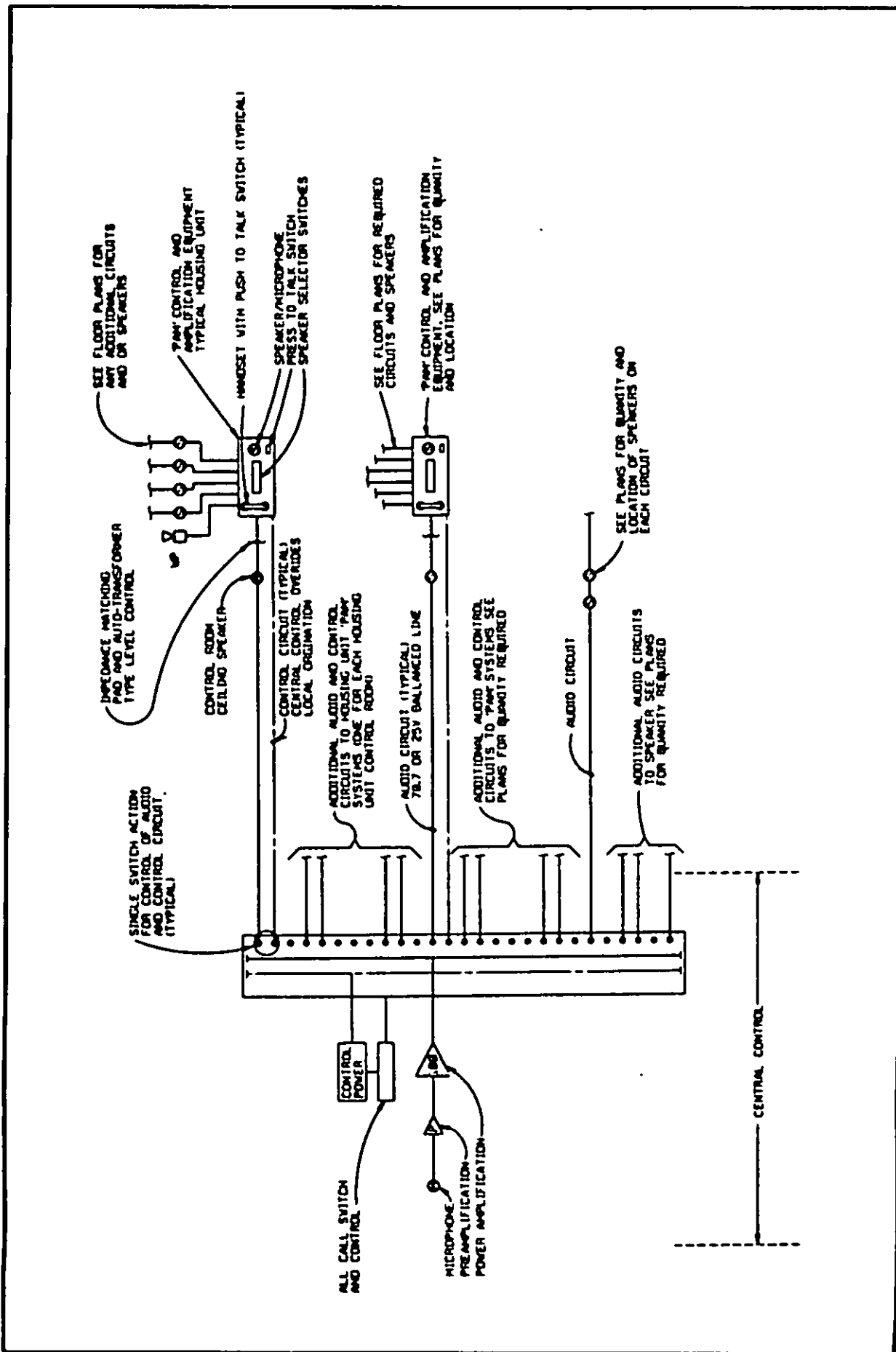


TITLE
Wiring Diagram

DATE
APR. 88

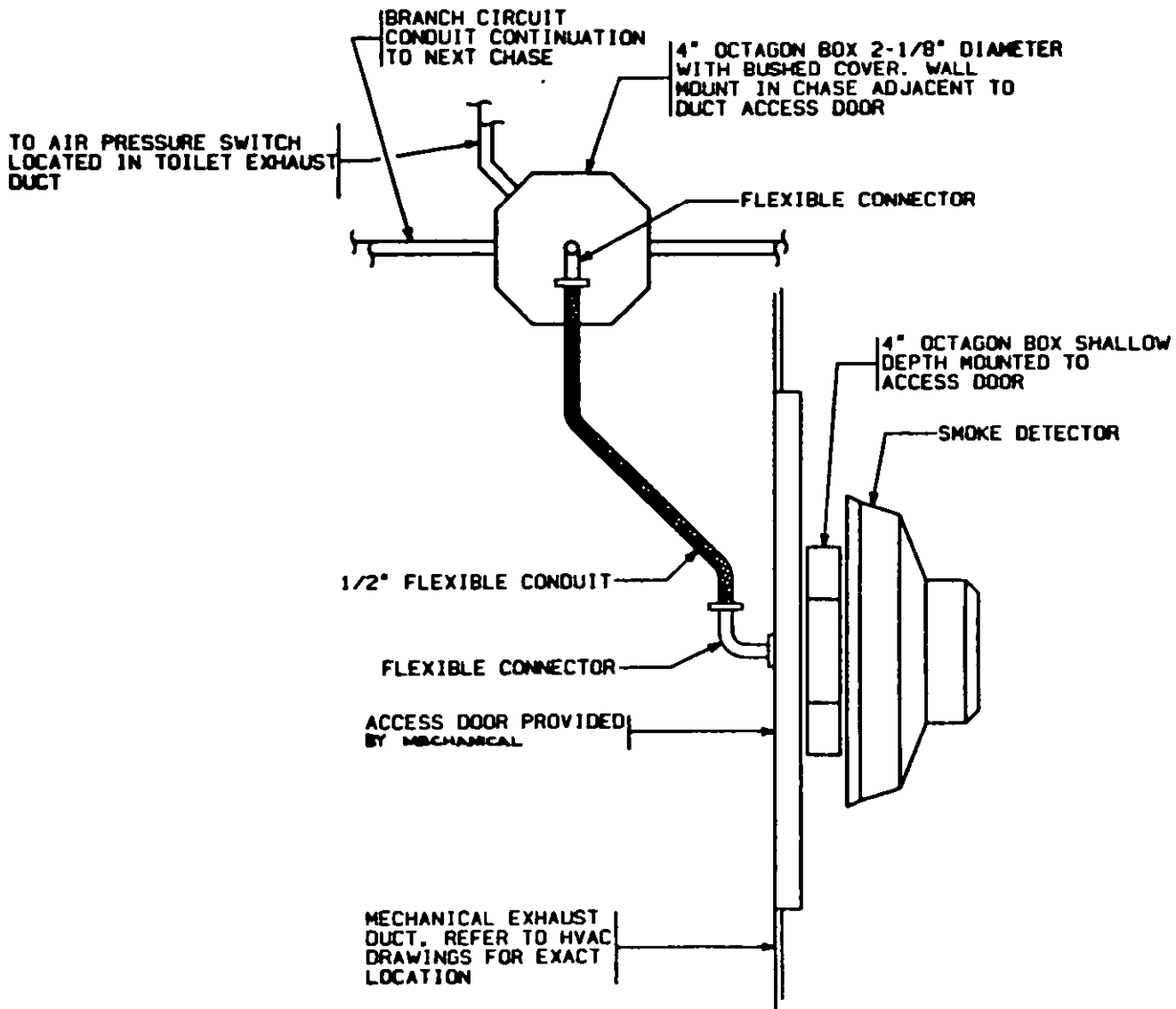
CATEGORY CODE
730-15

FACILITY
PLATE NO
101

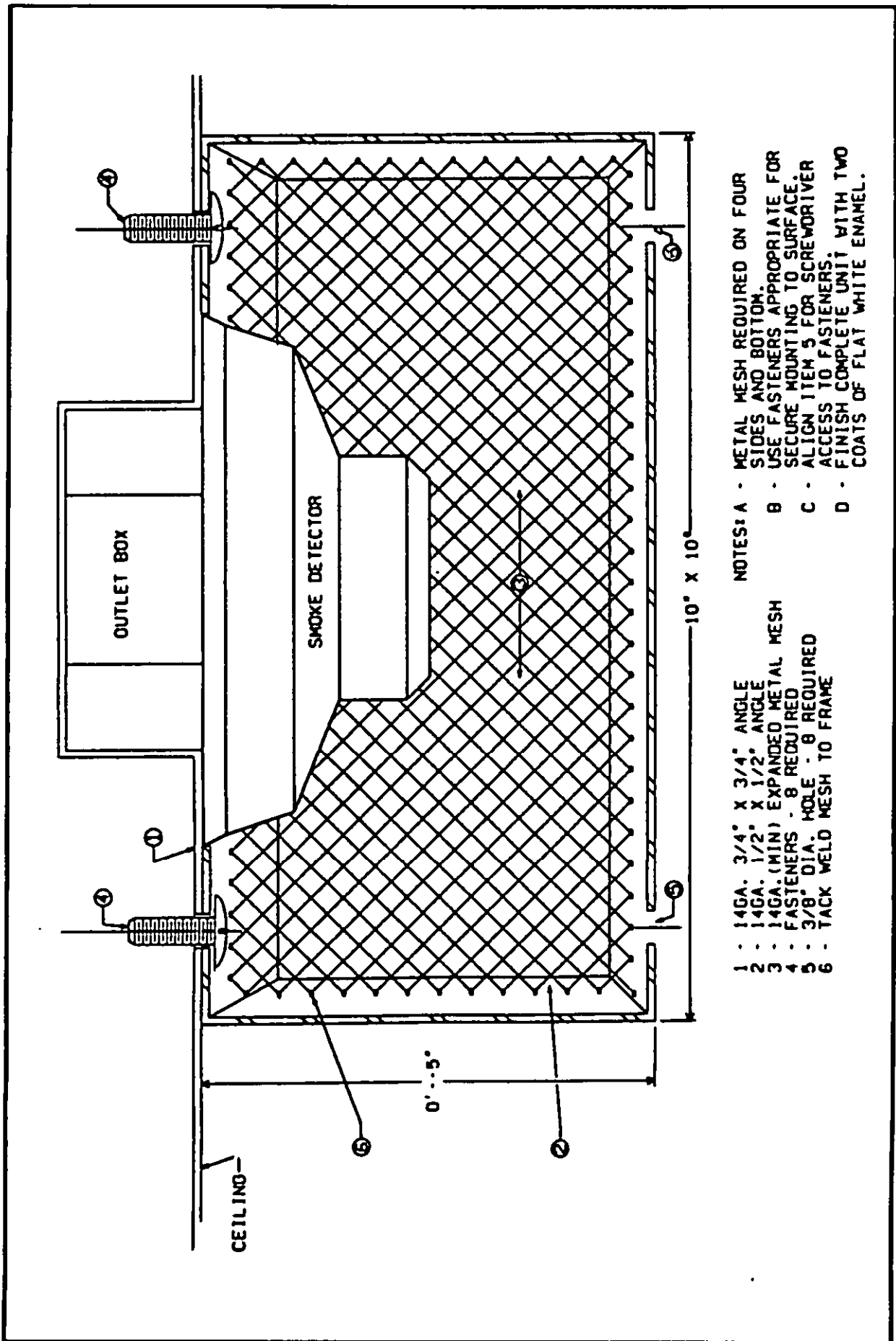


<p>TITLE Wiring Diagram</p>	<p>DATE APR. 88</p>	<p>CATEGORY CODE 730-15</p>	<p>FACILITY PLATE NO 102</p>
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MIL-HDBK-1037/4



TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Smoke Detector	APR. 88	730-15	103

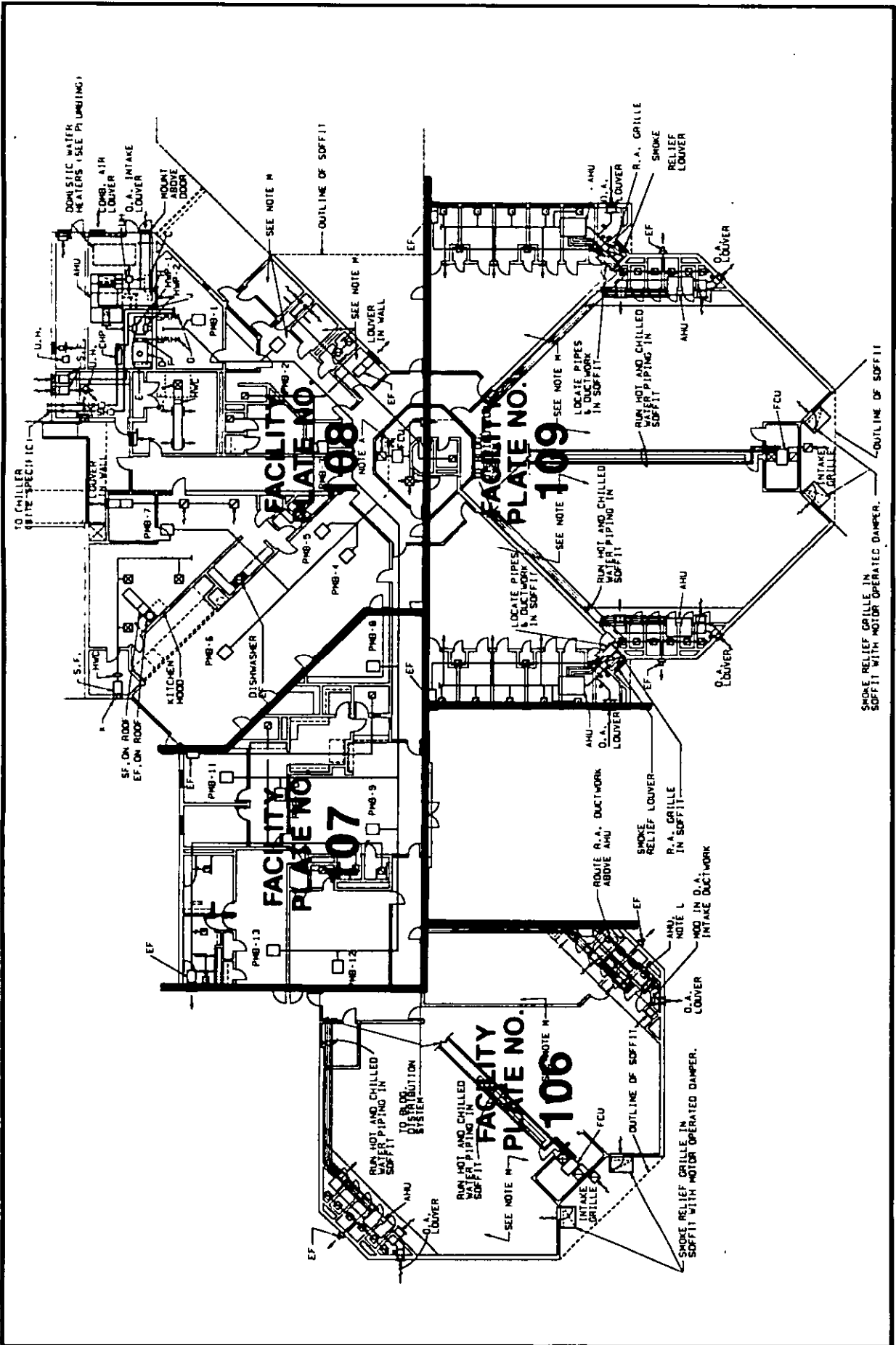


- NOTES: A - METAL MESH REQUIRED ON FOUR SIDES AND BOTTOM.
 B - USE FASTENERS APPROPRIATE FOR SECURE MOUNTING TO SURFACE.
 C - ALIGN ITEM 5 FOR SCREWDRIVER ACCESS TO FASTENERS.
 D - FINISH COMPLETE UNIT WITH TWO COATS OF FLAT WHITE ENAMEL.

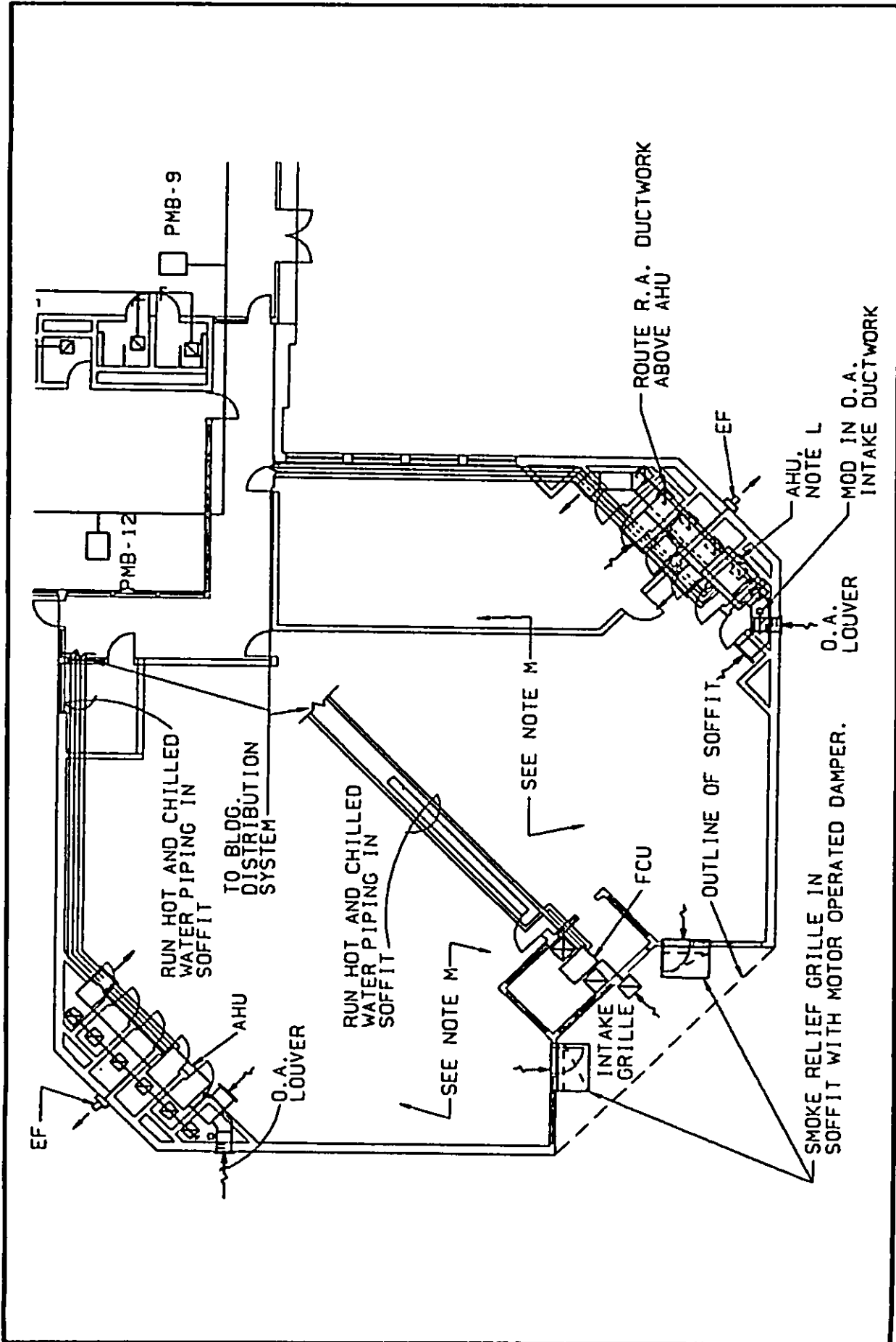
- 1 - 14GA. 3/4" X 3/4" ANGLE
 2 - 14GA. 1/2" X 1/2" ANGLE
 3 - 14GA. (MIN) EXPANDED METAL MESH
 4 - FASTENERS - 8 REQUIRED
 5 - 3/8" DIA. HOLE - 8 REQUIRED
 6 - TACK WELD MESH TO FRAME

TITLE	Smoke Detector
DATE	APR. 88
CATEGORY CODE	730-15
FACILITY PLATE NO	104

MIL-HDBK-1037/4



FACILITY PLATE NO 105	CATEGORY CODE 730-15	DATE APR. 88	TITLE HVAC Plan
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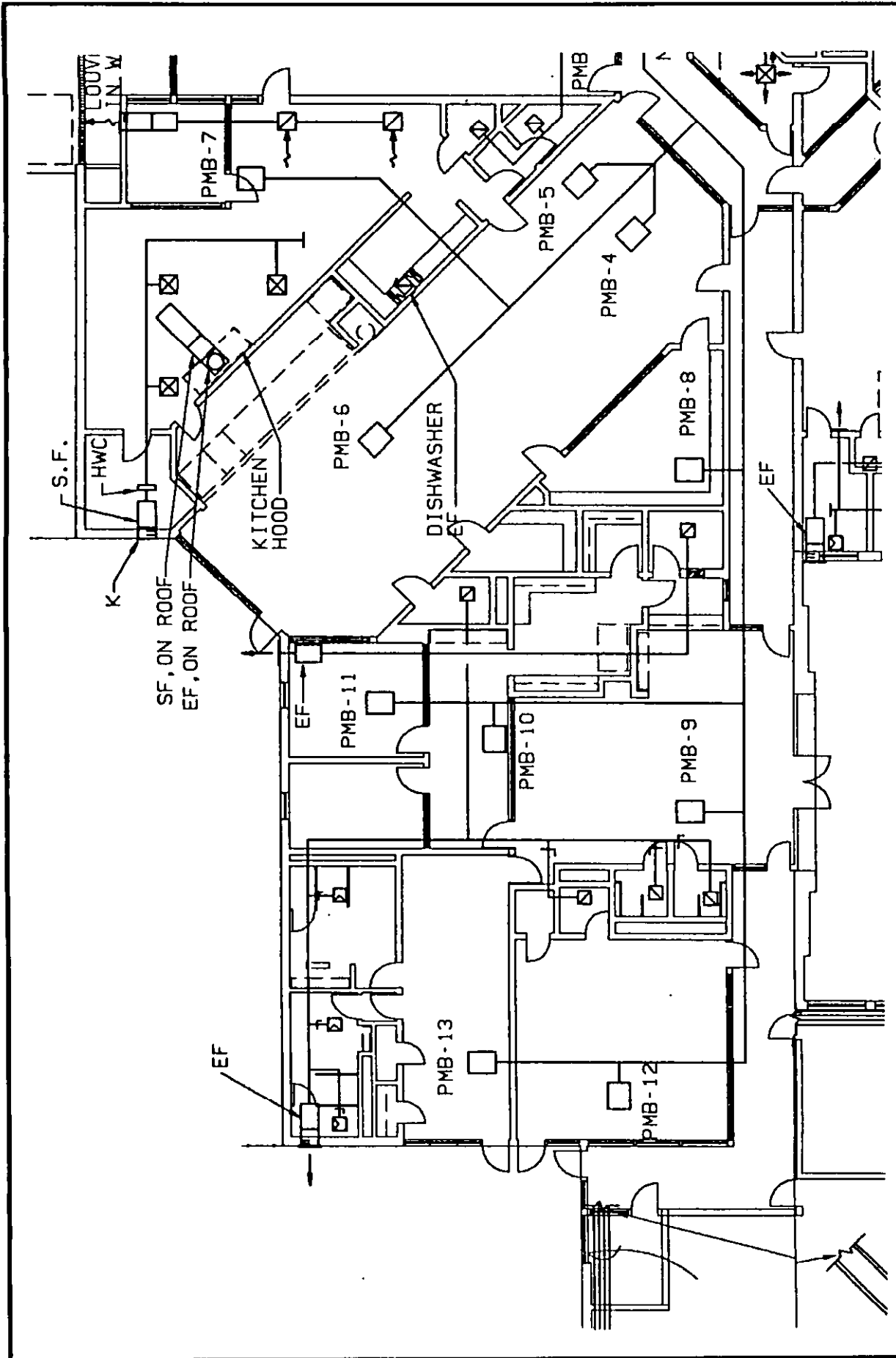


TITLE
 HVAC Partial Plan

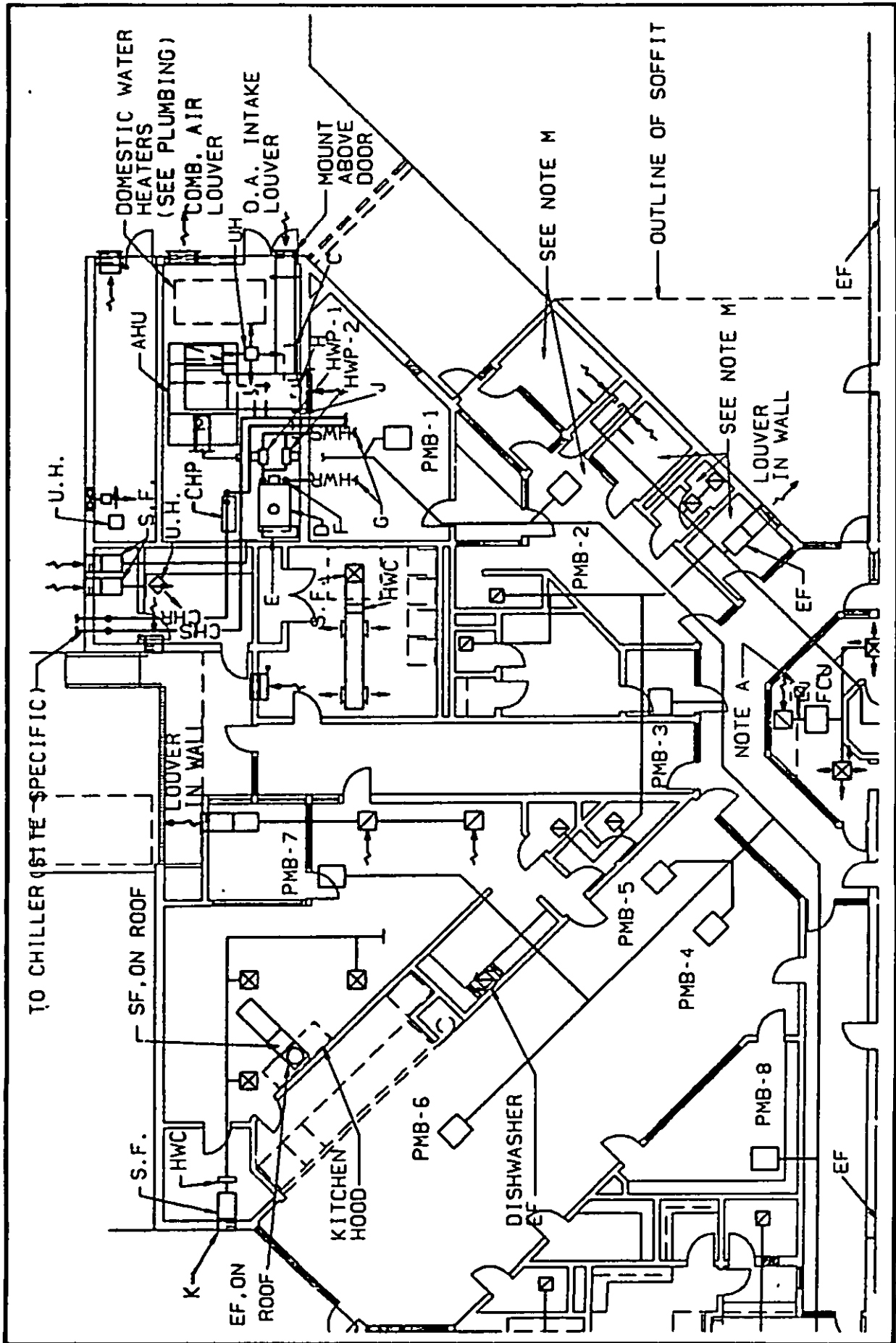
DATE
 APR. 88

CATEGORY CODE
 730-15

FACILITY PLATE NO
 106



FACILITY PLATE NO 107	CATEGORY CODE 730-15	DATE APR. 88	TITLE HVAC Partial Plan
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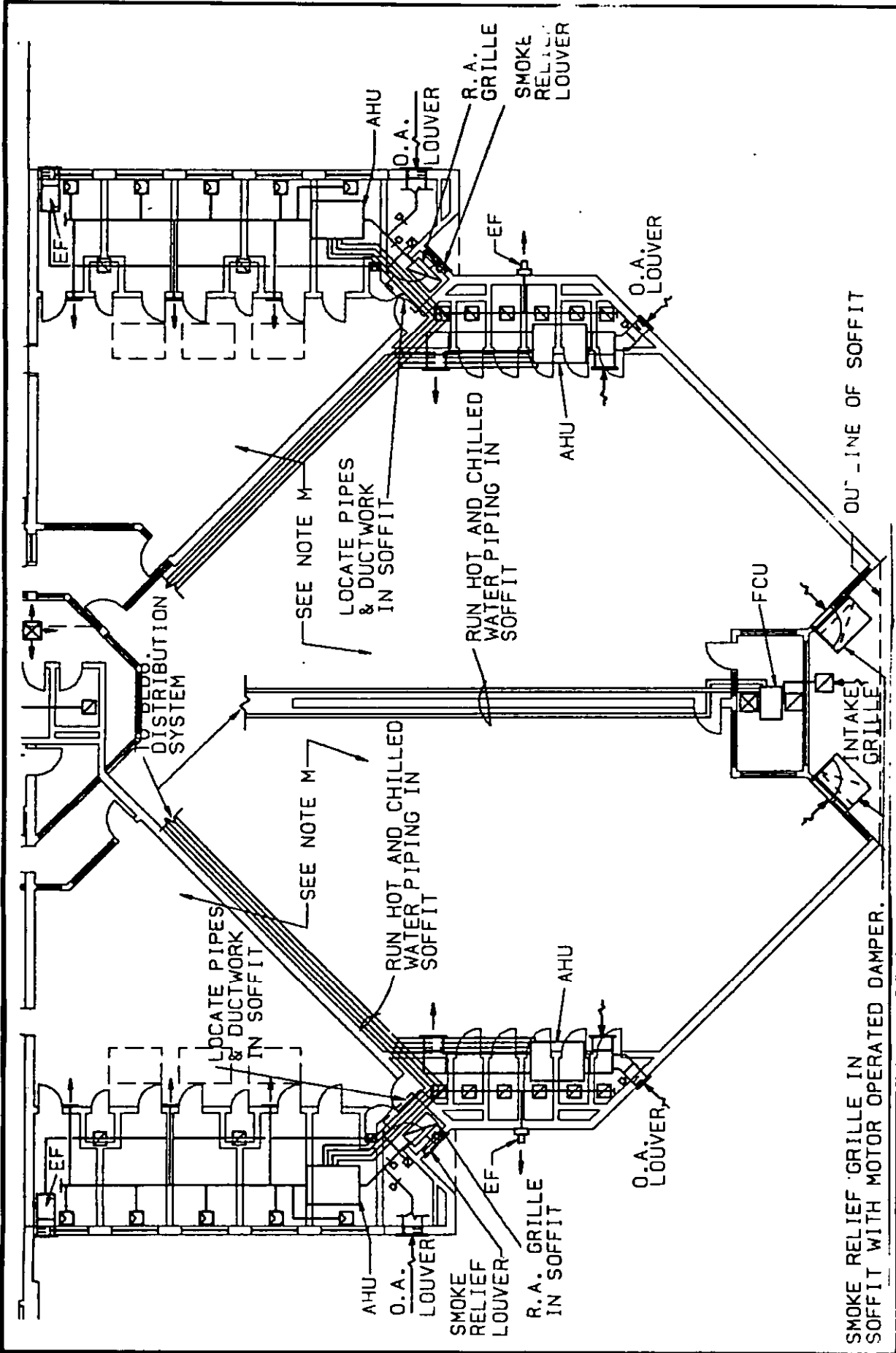
TITLE
HVAC Partial Plan

DATE
APR. 89

CATEGORY CODE
730-15

FACILITY PLATE NO
108

MIL-HDBK-1037/4



FACILITY PLATE NO 109	CATEGORY CODE 730-15	DATE APR. 88	TITLE HVAC Partial Plan
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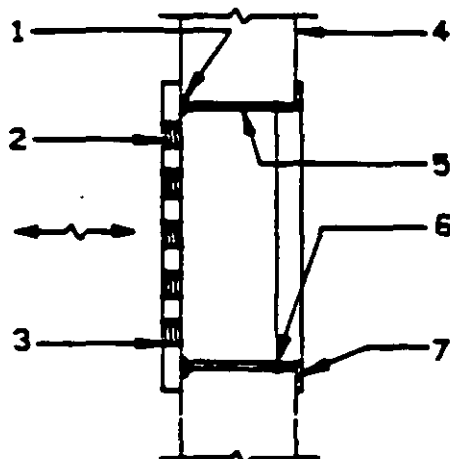
MIL-HDBK-1037/4

POWERED MIXING BOX SCHEDULE	
PMB NO.	ROOMS SERVED
1	STORAGE, BOOKING
2	HOLDING
3	MEDICAL OFFICES & LAB
4	MULTI-PURPOSE
5	MULTI-PURPOSE
6	MULTIPURPOSE
7	KITCHEN OFFICE
8	LIBRARY
9	LOBBY, RECEPTION
10	SECRETARY, OFFICE, WORKROOM, STORAGE
11	CONFERENCE
12	CLASSROOM, OFFICE
13	MUSTER, LOCKER ROOMS

- A. ROOM MOUNTED OUTSIDE AIR INTAKE HOOD FOR FCU
- B. TRANSFER GRILLE
- C. AIR COMPRESSOR, FLOOR MOUNTED
- D. HOT WATER BOILER, VENT THRU ROOF
- E. HANG EXPANSION TANK TIGHT TO STRUCTURE
- F. POINT OF CONNECTION TO MAKE-UP WATER
- G. HOT & CHILLED WATER PIPING, TO EQUIPMENT
- H. REFRIGERANT FILTER DRYER FOR CONTROL AIR SYSTEM, WALL MOUNTED
- I. ALL DUCTWORK IN ALL EXPOSED STRUCTURE AREAS SHALL BE ROUND
- J. HVAC CONTROL CABINET
- K. SEE ARCH. FOR EXACT LOUVER LOCATIONS
- L. MOUNT AHU ON ELEVATED FRAME SUCH THAT EXHAUST DUCTWORK CAN BE ROUTED UNDERNEATH.
- M. SEE FINISH SCHEDULE FOR CEILING FINISHES

TITLE HVAC Notes	DATE APR. 68	CATEGORY CODE 730-15	FACILITY PLATE NO 110
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MIL-HDBK-1037/4



1. CONTINUOUS WELD FACE PLATE TO SLEEVE
2. SECURITY GRILL
3. SECURITY GRILLE UNIT SHALL BE PLACED & WALL CONSTRUCTED AROUND IT
4. WALL
5. 12 GAUGE (MIN.) STEEL SLEEVE (ON ALL SIDES)
6. CONTINUOUS WELD ANGLES TO SLEEVE
7. 1-1/2 by 1-1/2 by 1/8 inch (38.10 by 38.10 by 3.30 mm) (ON ALL SIDES). WHERE GRILLE IS TO BE INSTALLED ON BOTH SIDES OF WALL, DELETE ANGLE.



SECURITY GRILLE MOUNTING

TITLE

Security Grille Mounting

DATE

APR. 88

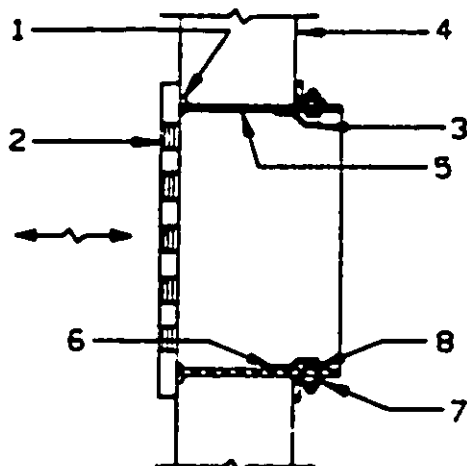
CATEGORY CODE

730-15

FACILITY
PLATE NO

111

MIL-HDBK-1037/4



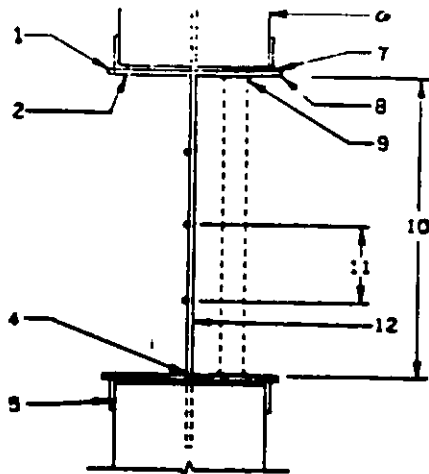
1. CONTINUOUS WELD FACE PLATE TO SLEEVE
2. SECURITY GRILLE
3. 16 GAUGE (MIN.) STEEL SHIELD AT EACH BOLT
4. WALL
5. 12 GAUGE (MIN.) STEEL SLEEVE (ON ALL SIDES)
6. WELD SHIELD TO SLEEVE
7. 1-1/2 by 1-1/2 by 3/16 inch (38.10 by 38.10 by 4.83 mm) ANGLES (ON ALL SIDES).
8. BOLT WITH LOCKNUT

**ALTERNATE SECURITY
GRILLE MOUNTING**

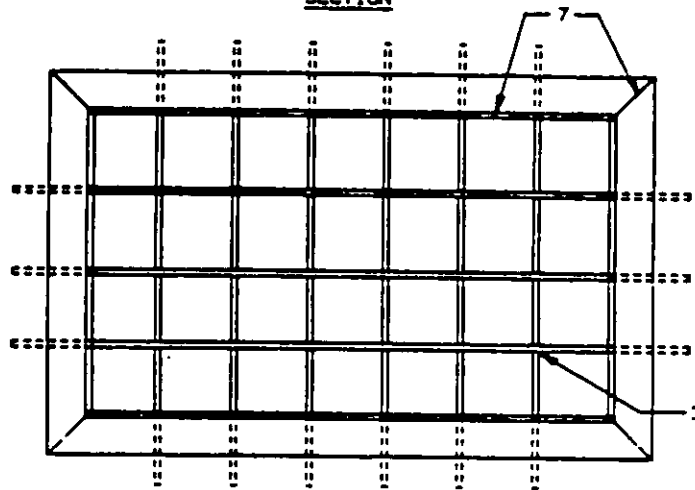
NTS

TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Alternate Security Grille Mounting	APR. 88	730-15	112

MIL-HDBK-1037/4



SECTION



ELEVATION

1. CONNECT DUCT TO STEEL PLATE W/RIVETS.
2. 1/8 INCH (3.30 mm) STEEL PLATE
3. WELD ALL BAR CROSSPOINTS
4. WELD BARS TO FRAME
5. 2 by 2 by 1/8 inch (50.80 by 50.80 by 3.30 mm) ANGLE FRAME. BOTH SIDES OF WALL
6. BLOCK WALL FILLED W/GROUT
7. WELD FULL LENGTH
8. OMIT DUCT CONNECTION FLANGE FOR NON-DUCTED OPENINGS
9. FIRE DAMPER WHERE SHOWN ON PLANS. TACK WELD TO STEEL PLATE ALL AROUND. TYP.
10. DUCT SIZE AS SHOWN ON PLANS
11. 6 inches (152.4 mm) O.C. MAX., BOTH WAYS
12. #4 STEEL BARS (1/2 inch [12.70 mm] DIA.) BOTH WAYS. EXTEND 8 inches (203.2 mm) MIN. INTO WALL. TYP.

TITLE

Security Bars in Wall

DATE

APR. 88

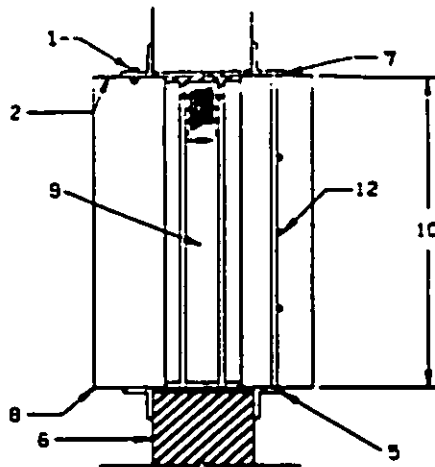
CATEGORY CODE

730-15

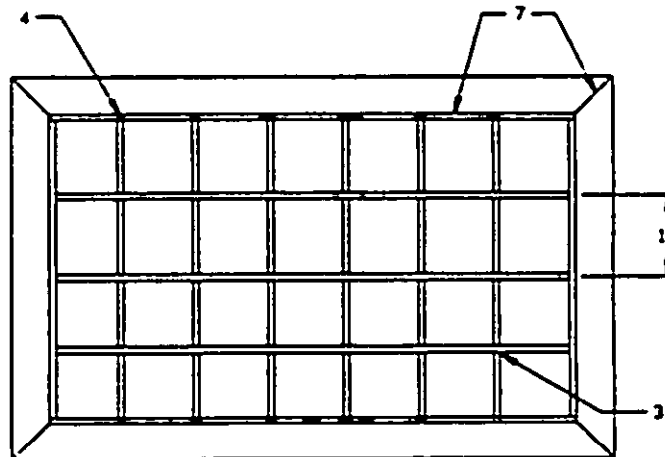
FACILITY
PLATE NO

113

MIL-HDBK-1037/4



SECTION



ELEVATION

1. CONNECT DUCT TO STEEL PLATE W/RIVETS.
2. 1/8 inch (3.30 mm) STEEL PLATE
3. WELD ALL BAR CROSSPOINTS (TYP.)
4. WELD BARS TO FRAME (TYP.)
5. 2 by 2 by 1/8 inch (50.80 by 50.80 by 3.30 mm) ANGLE FRAME. BOTH SIDES OF WALL
6. BLOCK WALL FILLED W/GROUT
7. WELD FULL LENGTH
8. OMIT DUCT CONNECTION FLANGE FOR NON-DUCTED OPENINGS
9. FIRE DAMPER. TACK WELD TO STEEL PLATE ALL AROUND (TYP.)
10. DUCT HEIGHT AS SHOWN ON PLANS, PLUS 4 INCHES (100 mm)
11. 6 inches (152.4 mm) O.C. MAX., BOTH WAYS
12. #4 STEEL BARS (1/2 inch [12.70 mm] DIA.)

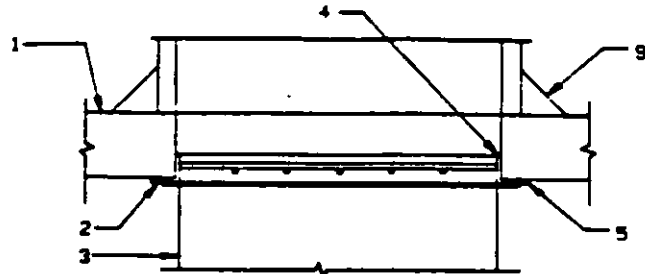
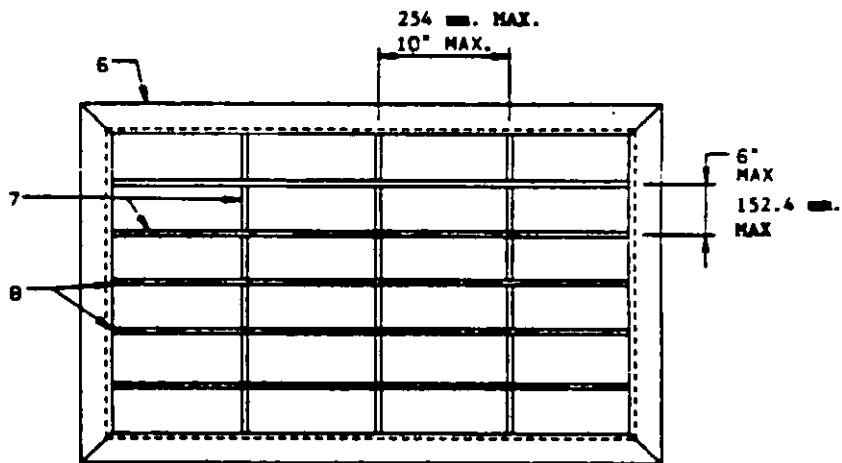
TITLE **Secure Bar/Fire
Damper Combination**

DATE
APR. 88

CATEGORY CODE
730-15

FACILITY
PLATE NO
114

MIL-HDBK-1037/4

SECTIONELEVATION

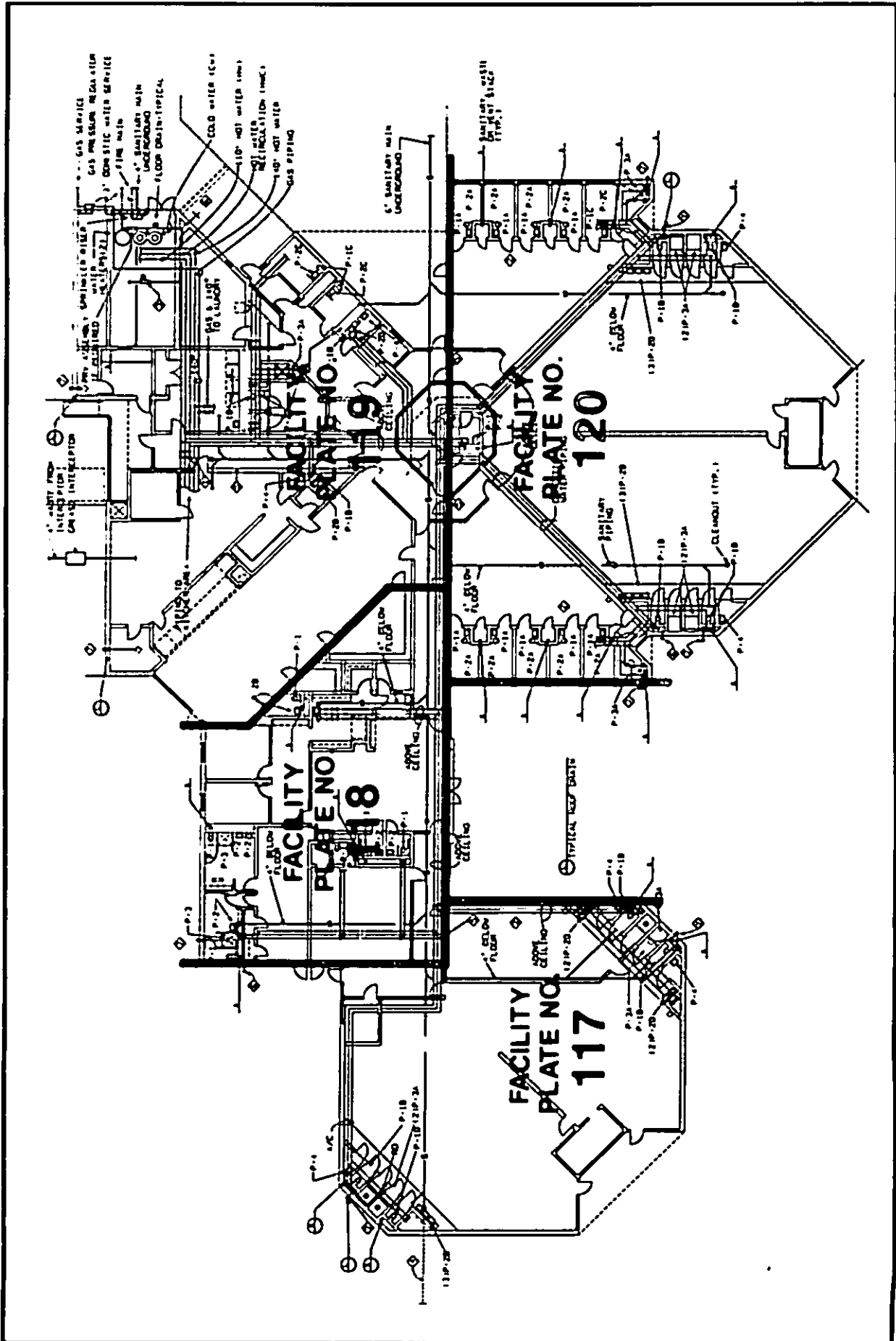
1. ROOF
2. CAULK & SEAL DUCT CONNECTION AIRTIGHT
3. DUCT
4. CAULK & SEAL AIRTIGHT
5. CONTINUOUS WELD STEEL ANGLE FRAME TO METAL ROOF DECK
6. 2-1/2 by 2-1/2 by 1/4 inch (63.5 by 63.5 by 6.35 mm) STEEL ANGLE FRAME
7. #4 STEEL BAR (TYPICAL)
8. WELD BARS TO ANGLES AT BOTH ENDS OF EACH BAR (TYPICAL)
9. EQUIPMENT CURB

TITLE Security Bars at
Roof Opening

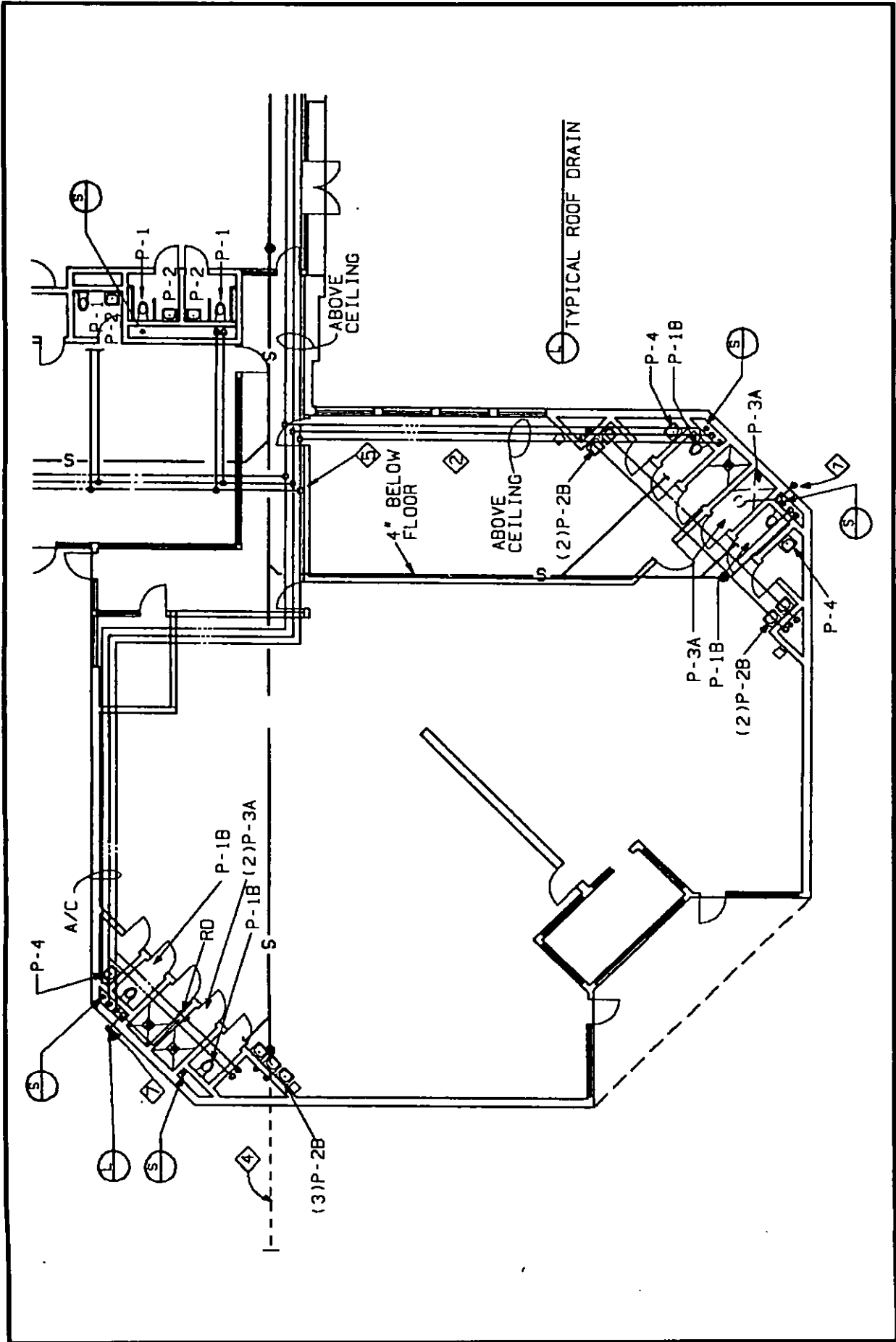
DATE
APR. 88

CATEGORY CODE
730-15

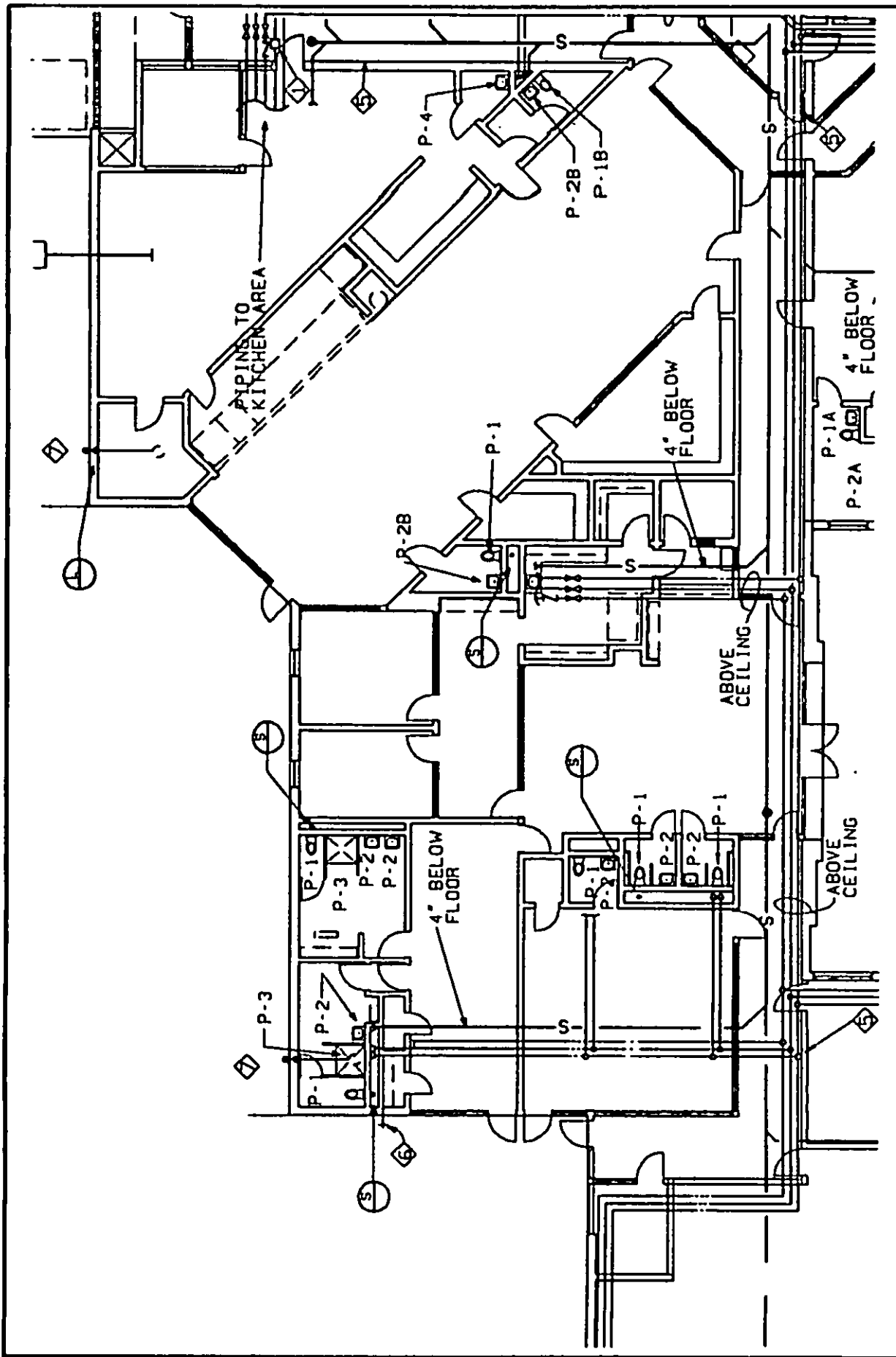
**FACILITY
PLATE NO**
115



<p>TITLE Plumbing Plan</p>	<p>DATE APR. 88</p>	<p>CATEGORY CODE 730-15</p>	<p>FACILITY PLATE NO 116</p>
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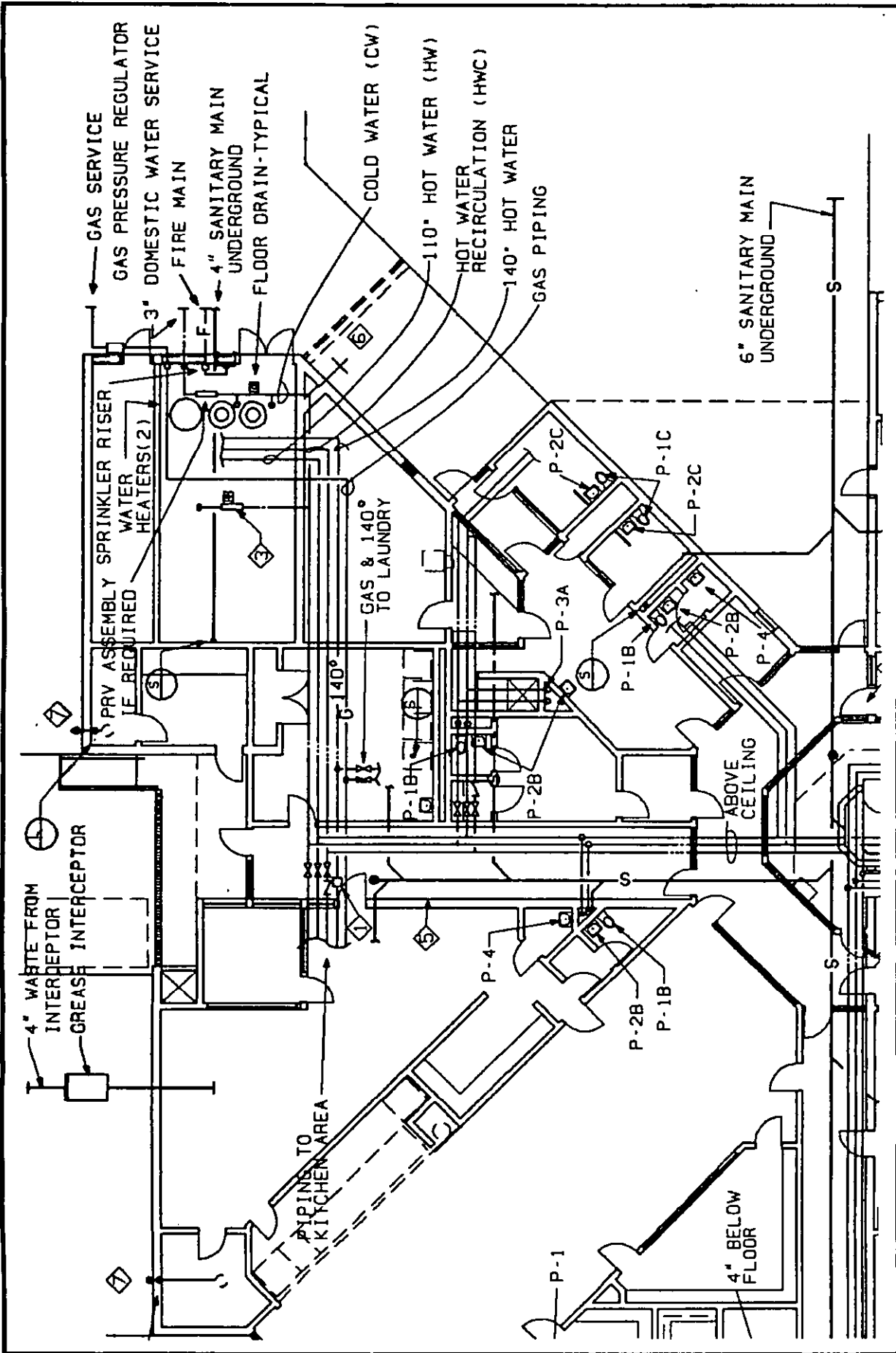


TITLE Plumbing Partial Plan	DATE APR. 68	CATEGORY CODE 730-15	FACILITY PLATE NO 117
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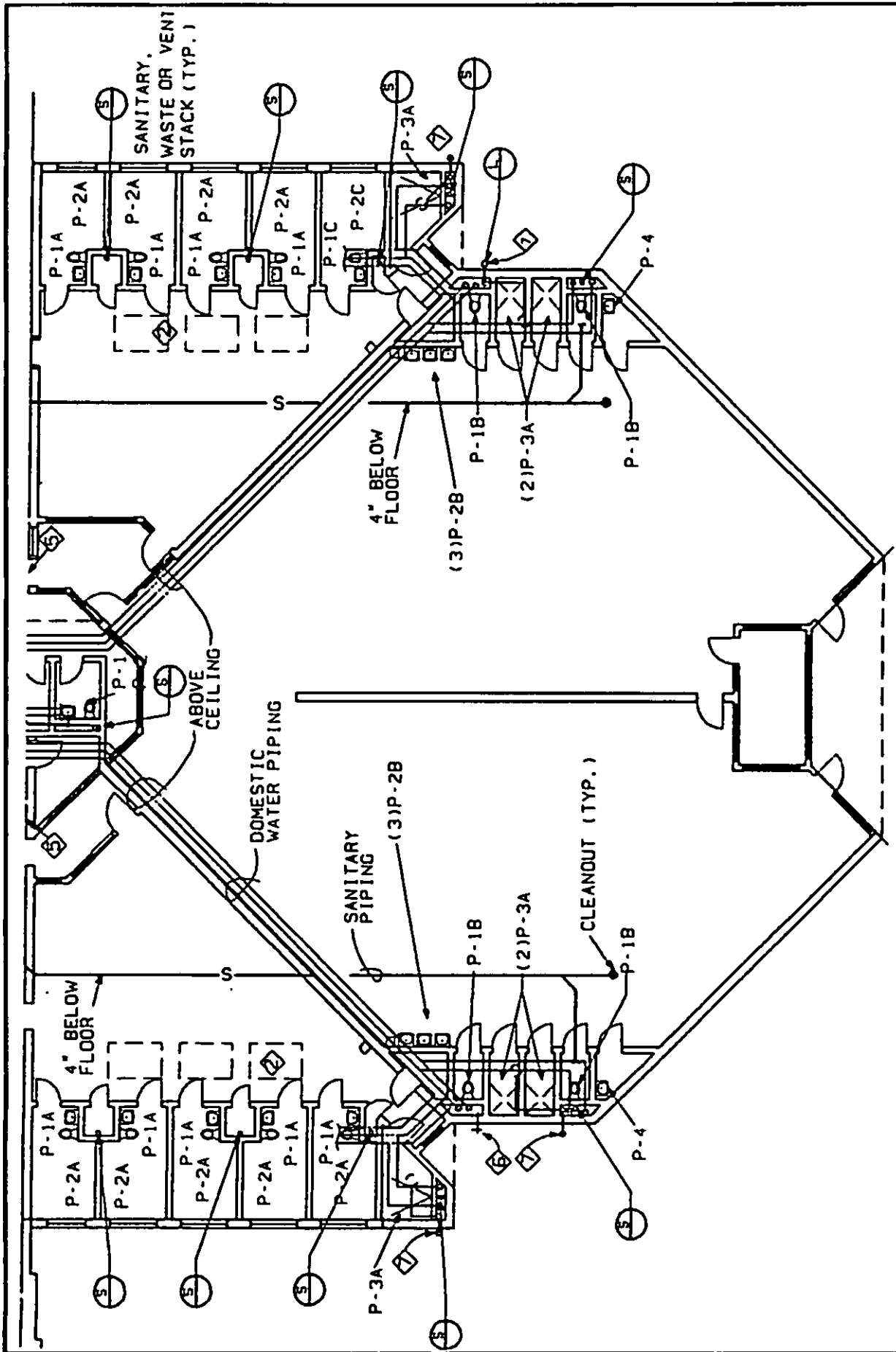


FACILITY PLATE NO 118	CATEGORY CODE 730-15	DATE APR. 88	TITLE Plumbing Partial Plan
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MIL-HDBK-1037/4



FACILITY PLATE NO 119	CATEGORY CODE 730-15	DATE APR. 88	TITLE Plumbing Partial Plan
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FACILITY PLATE NO 120	CATEGORY CODE 730-15	DATE APR. 88	TITLE Plumbing Partial Plan
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SYMBOLS:

- ① MANUAL RESET SOLENOID VALVE, NORMALLY OPEN, ENERGIZE TO CLOSE.
- ② ROUTE CW, HW & HWC PIPING IN FURRED-IN SOFFIT. COORDINATE W/ MECH. PIPING.
- ③ 3/4" BACKFLOW PREVENTER FOR MECH. MAKE-UP WATER. REFER TO MECH. DWGS. FOR CONTINUATION.
- ④ ALTERNATE ROUTE FOR SANITARY PIPING UNDERGROUND & INSIDE BLDG.
- ⑤ SURFACE MOUNTED FIRE HOSE CABINET W/ 1 1/2" FIRE HOSE ASSEMBLY.
- ⑥ 3/4" NON-FREEZE WALL HYDRANT.
- ⑦ TERMINATE ROOF DRAINAGE DOWNSPOUT 12" ABOVE GRADE AND SPILLS ONTO CONCRETE SPLASH BLOCK.

NOTES:

- A. EXTEND GAS, WATER, FIRE, & SANITARY LINES 5'-0" FROM BLDG. & CAP/PLUG FOR FINAL CONNECTION.
- B. THE ENTIRE BLDG. IS PROTECTED BY A WET PIPE SYSTEM.
KITCHEN AREA - DESIGN FOR ORDINARY HAZARD GROUP I
REMAINING AREAS - DESIGN FOR LIGHT HAZARD
- C. REFER TO ARCHITECTURAL ROOF PLAN FOR EXACT LOCATION OF ROOF DRAINS.

TITLE	DATE	CATEGORY CODE	FACILITY PLATE NO
Public Legend	APR. 88	730-15	121

Section 4: DETENTION FACILITIES

4.1 Facility Mission. This section provides information on specific design criteria that must be incorporated into the planning and design of detention facilities.

These eight-hour and 72-hour detention facilities are temporary lock-up or holding facilities usually located in Security offices. They are designed to secure detainees pending transfer to regular briggs. Due to the short-term nature of confinement in detention facilities, all support services, such as food and medical, shall be provided by existing local facilities. A detention facility shall serve both male and female detainees.

Detention facilities will be classified and identified as follows:

a) 8-Hour Holding. Permits detention of detainees for a period up to eight hours. Multiple-occupancy cells are permitted and benches attached to wall or floor are provided in lieu of bunks.

b) 72-Hour Detention. Permits detention of detainees for a period up to 72 hours as defined in SECNAVINST 1640.9. Single-occupancy cells with bunks are required for personnel held more than eight hours, but less than 72 hours.

4.2 Facility Design Criteria. The Detention Facility where feasible should be located adjacent to and in full view of the dispatcher's desk. The facility shall be out of the line of sight of public users of the security office. Detainee search and bathing facilities shall be located within the secure area. An interview room, within direct view of the dispatcher, shall be accessible to visitors from the public side and to detainees from the secure side.

4.3 Security/Circulation. Access to and from the Detention Facility shall be carefully monitored and designated only for certain staff and detainees.

4.4 User Needs. The Detention Facility shall contain a weapons locker to be utilized by base security or apprehending officer, individual holding areas (provided with hot and cold running water in each cell, toilet, natural light), group hold (provided with a built-in bench and toilet) and appropriate levels of circulation, temperature, lighting and noise control. A bed is required if the detainee will be held more than eight hours.

4.5 Special Requirements, Materials, Furnishings. Cells shall measure at least 7 by 11 by 8 feet (2.13 by 3.55 by 2.44 m) high. Provide sight and sound separation between male and female cells. A group holding cell shall provide 20 NSF per detainee, and be equipped with fixed benches and toilet. Provide male and female shower facilities. Equip the interview room with two seats and a fixed writing surface. Ensure sound insulation of interview room. NOTE: Number of cells and capacity of group cells will be determined by an evaluation of anticipated need.

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a) Each unit shall be equipped with the required number of plumbing fixtures and type, depending on whether the unit is single cell or dormitory type.

b) Each unit shall be equipped with security, detention-type light fixtures, doors and locking hardware.

c) Each unit shall be insulated to minimize energy consumption.

4.6 Security Department. Detention facilities should be located within the security department of the base or command. As a result, site selection, overall design and planning shall be based on criteria established for security departments. Only the detention space within the security department shall be governed by the following criteria.

4.7 Responsibility for Planning. The local Command Office shall be responsible for the planning and establishment of a detention facility. It shall be the responsibility of the Command Office to notify the Chief of Naval Personnel or the Commandant of the Marine Corps of the intent to establish a detention facility or renovate an existing detention facility. In addition, obtain concurrence of NAVPERS with cell design (Pers. 84) for NAVY, or CMC for Marines.

4.8 Capacity. The minimum capacity of a detention facility shall be two cells, consisting of one male cell and one female cell. The female cell is required to have sight and sound separation from the male cell. Sound separation is achieved when normal conversation between the two cells is inhibited.

4.9 Detention Facility Construction Materials

4.9.1 Wall Construction. Security walls shall consist of one of the following:

a) Poured concrete, 6 inches (150 mm) thick with vertical and horizontal steel rod reinforcement (vertical and horizontal rod 6 inches (150 mm) on center), deformed billet steel rods 3/8 inch (9.52 mm) in diameter conforming to ASTM A615, Grade 60.

b) Concrete block 8 inches (200 mm) thick with cells filled full height with grout conforming to ASTM C476, vertical steel rod 3/8 inch (9.52 mm), reinforcement, deformed billet steel conforming to ASTM A615 in each block cell.

4.9.2 Cells -- Ceiling Construction. Ceiling construction shall consist of one of the following:

a) Prestressed concrete planks laid side by side and contiguous, a minimum of 4 inches (100 mm) thick.

b) Cast-in-place reinforced concrete minimum of 4 inches (100 mm) thick.

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4.9.3 Cells -- Floor Construction. Floors shall consist of one of the following:

a) Poured, reinforced concrete, 6 inches (150 mm) thick, using a minimum of 9-gauge expanded metal, 3/8-inch (9.53 mm) steel rod 6 inches (150 mm) on center each way. Concrete shall have a steel trowel finish.

b) Prestressed 6-inch (150 mm) concrete sections laid side by side and contiguous with minimum of 2 inches (50 mm) of concrete topping using 6 x 6 - W1.4 x W1.4 reinforcement. Concrete topping shall have a steel trowel finish.

c) A slab on grade shall be a minimum of 4 inches (100 mm) of reinforced concrete with 6 x 6 - W1.4 x W1.4 welded wire fabric. Concrete slab shall have a steel trowel finish.

4.10 Emergency Exits. Emergency exits shall be provided in accordance with NFPA 101, Chapter 14.

4.11 Security Components

4.11.1 Glazing. Glazing shall be similar to that for Waterfront Brig, as described in NAVFAC NFGS-11192. Outside dormitory glazing, installed less than 6 feet high, shall be frosted to prevent non-staff from viewing sleeping areas from outside the facility.

4.11.2 Doors and Windows. All doors, windows and frames shall be detention grade, security type as described in NAVFAC NFGS-11191, Detention and Security Windows, NAVFAC NFGS-11192, and NFGS-11193, Detention Hollow Metal Frames, Doors, and Door Frames. Operable cell windows shall have heavy screens installed to prevent the passing of contraband.

4.11.3 Locks. All locks on detention, security type doors shall be detention grade locks.

4.11.4 Fund Storage. A small vault permanently attached to a wall or floor shall be provided for storage of detainee funds. The vault may be enclosed in a lockable closet or cabinet.

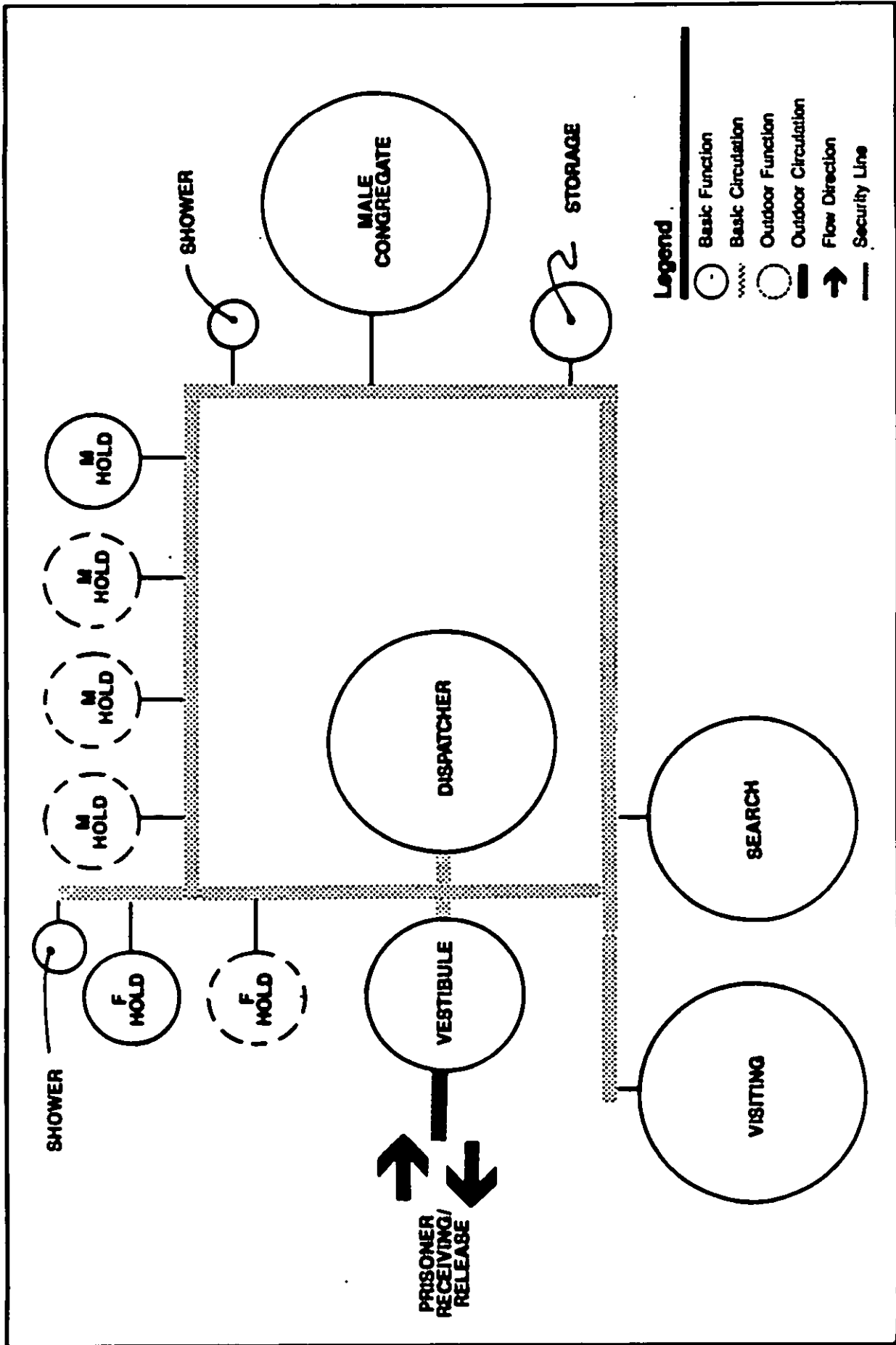
4.11.5 Closed-Circuit Television (CCTV). CCTV may be provided to assist in the observation of detainee areas. CCTV shall not be used in lieu of staff rounds to observe and monitor detainee areas.

4.12 Mechanical. Each multiple occupancy or single occupancy cell shall be equipped with a detention type stainless steel combination lavatory, water closet and bubbler. Shower heads shall be flush mounted, non-adjustable detention type. Floor drains shall be secured with tamper-resistant fasteners.

4.13 Electrical. Electrical outlets or switches shall not be installed in any cells. All electrical wall plates shall be nylon and mounted with spanner or security screws.

4.14 Pre-Fabricated Detention Units. Each command shall evaluate the use of pre-engineered, pre-fabricated detention units when considering the establishment of a detention facility. The selection of pre-fabricated detention units should be based on a life cycle cost analysis completed in accordance with NAVFAC P-442, Economic Analysis Handbook.

4.15 Functional Arrangements. The following facility plate illustrates the desirable functional relationships of the spaces. Size of spaces other than cell and number of cells are to be determined by local command requirements.



TITLE
Detention Facility

DATE
APR. 88

CATEGORY CODE
730-15

FACILITY
PLATE NO
122

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APPENDIX A

COLLATERAL EQUIPMENT REQUIREMENTS (INITIAL OUTFITTING)					DATE APRIL 88	
ACTIVITY (Name, Location, UIC) NAVFAC, ALEXANDRIA, VIRGINIA						
PROJECT TITLE WATERFRONT BRIG SMALL				PROJECT NUMBER	MCON FY	CONST BOO
COG SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST	
1. Built-in Equipment	-----	---	---	---	-----	
2. Non-Technical Equipment	A. GALLEY EQUIPMENT:					
	Dispenser, beverage, 5 gal., stainless	1	Ea.	50	50	
	Can opener, crown punch, hand- operated	1	Ea.	425	425	
	Can storage, mobile [AMCO BAC-25M/4DCN-1]	1	Ea.	600	600	
	Mat, anti-fatigue, 58½"x39"	1	Ea.	100	100	
	Mixer, 20 qt., bench mount	1	Ea.	1200	1200	
	Dish storage, mobile 32" with casters	2	Ea.	250	500	
	Shelving, zinc-coated wire, four shelves with posts and casters	4	Ea.	250	1000	
	Slicer, 1/3 HP, 12" blade	1	Ea.	1200	1200	
	Starter station - Napkin, Flat- ware and Tray Dispenser	1	Ea.	800	800	
	Steam table pans:	6	Ea.	40	240	
	12"x20"x2½"	6	Ea.	40	240	
	12"x20"x4"	2	Ea.	55	110	
	Lids, steam table pan					
	Vollrath (77430)	14	Ea.	56	784	
	Vollrath (77400)	4	Ea.	78	312	
	Stockpot, 20 qt., aluminum	1	Ea.	95	95	
	Lid, stock pot	1	Ea.	12	12	
	Toaster, rotary, electric	1	Ea.	1000	1000	
	Cart, utility, 3 shelves, 5" casters, 24" W x 36" D	1	Ea.	500	500	
	Waste can, pedal operated	1	Ea.	43	43	
	Work table:					
	60" W x 30" D x 34" H, stain- less, with undershelf and overshelf	1	Ea.	900	900	
	Work table:					
	72" W x 30" D x 34" H, stain- less	2	Ea.	900	1800	
	TOTAL GALLEY ITEMS:				11,911	

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COLLATERAL EQUIPMENT REQUIREMENTS (INITIAL OUTFITTING)					DATE APRIL 88		
ACTIVITY (Name, Location, UIC) NAVFAC, ALEXANDRIA, VIRGINIA							
PROJECT TITLE WATERFRONT BRIG SMALL					PROJECT NUMBER	MCON FY	CONST 800
COG SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST		
	B. FURNITURE/FURNISHINGS:						
	Ash urn, waste receptacle, metal	1	Ea.	80	80		
	Ash urn, free-standing, metal	2	Ea.	80	160		
	Bed, heavy duty, steel 78"x30"	49	Ea.	135	6615		
	Bookcase, wood, laminated, 36" x 48" x 12"	6	Ea.	140	840		
	Cabinet, barber, mobile	1	Ea.	225	225		
	Cabinet, file, sheet metal, hori- zontal 4 drawer, legal	3	Ea.	625	1875		
	Cabinet, file, sheet metal, ver- tical 4 drawer, letter	1	Ea.	237	237		
	Cabinet, file, sheet metal, hori- zontal, 4 drawer, individually lockable drawers	2	Ea.	518	1036		
	Cart, book, metal, 3 shelves, 5" casters	1	Ea.	158	158		
	Cart, linen, 10 bushel, 36" x 24" x 25" spring steel frame, 2 wheels and 2 casters	4	Ea.	125	500		
	Card catalog, wood, laminated 4-drawer table top cabinet	1	Ea.	214	214		
	Chairs:-						
	Armchair, steel frame, uphol- stered	7	Ea.	73	511		
	Executive, swivel, medium back	12	Ea.	235	2820		
	Interlocked armchair, steel frame, upholstered	12	Ea.	55	660		
	Secretarial, armless, swivel	9	Ea.	135	1215		
	Sidarm, executive	6	Ea.	180	1080		
	Stack chair, molded plastic with steel frame	91	Ea.	48	4368		
	Student armchair, laminated wood with steel frame, writing tablet	45	Ea.	42	1890		
	Commode, wood, 2 shelves, 1 door, 24" x 24" x 20" table	1	Ea.	200	200		
	Console, mail sorting, modular, countertop	1	Ea.	185	185		
	Credenza, wood, laminated 62" x 18" x 30"	1	Ea.	387	387		
	Desks:						
	Executive desk, wood, laminated double pedestal 36" x 72"	1	Ea.	628	628		

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COLLATERAL EQUIPMENT REQUIREMENTS (INITIAL OUTFITTING)					DATE	
ACTIVITY (Name, Location, UIC)					APRIL 88	
NAVFAC, ALEXANDRIA, VIRGINIA						
PROJECT TITLE				PROJECT NUMBER	MCON FY	CONST 80D
WATERFRONT BRIG SMALL						
COG SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST	
TL-15	Secretarial desk, wood, laminated type L	1	Ea.	450	450	
	Single pedestal, wood, laminated 48" x 30"	6	Ea.	330	1980	
	Flags & stands: 1 set US flag, 1 set US Navy flag, stands, poles, eagles	2	Set	131	262	
	Garbage can, heavy duty, 32 gal., with lid and dolly	6	Ea.	54	324	
	Height screen, scaled in inches & centimeters, mounted on wood	1	Ea.	28	28	
	Lectern, floor stand, wood, laminated 15" x 24" x 46"	1	Ea.	137	137	
	Locker, storage, sheet metal, 2 doors, 4 shelves, lockable 21" x 36" x 78"	2	Ea.	180	360	
	Locker, personal property storage sheet metal - removable key 12"x15"x15" - stacked 6 in tier	112	6	6	672	
	Mattress, institutional, 30" x 78" x 3", washable	59	Ea.	78	4602	
	Photo identification system with camera, flash, stand, rotary sign	1	Ea.	1200	1200	
	Pillow, institutional, 17" x 25", washable cover	59	Ea.	6	354	
	Rack, newspaper, free-standing, wood, holds 8	1	Ea.	300	300	
	Safe, fire rated, steel inner dimension 22" x 18" x 16"	1	Ea.	600	600	
	Screen, movie, portable, 60"x60"	1	Ea.	110	110	
	Shelving, closed, 6 shelves 12" x 36" x 85"	3	Ea.	180	540	
	Shelving, open, 6 shelves 18" x 36" x 85"	39	Ea.	82	3198	
	Stand, computer, metal, modesty panel, adjustable	1	Ea.	240	240	
	Stand, printer, metal, with paper feed, adjustable	1	Ea.	180	180	
	Stand, audio/visual, mobile, 4" casters, ball bearings, 2 shelves, adjustable	3	Ea.	105	315	
	Table, coffee, laminated	1	Ea.	100	100	
	Table, conference, wood, laminated, 4'x8'x29" High	1	Ea.	380	380	
	Table, dining, modular, steel frame & fiberglass, 4 seats	6	Ea.	265	1590	

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COLLATERAL EQUIPMENT REQUIREMENTS (INITIAL OUTFITTING)					DATE		
ACTIVITY (Name, Location, UIC)					APRIL 88		
PROJECT TITLE					PROJECT NUMBER	MCON FY	CONST BOO
COG SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST		
	Table, folding, composition, heavy duty laminated 36"x94"x29"	5	Ea.	97	485		
	Table, folding, composition, heavy duty, laminated, 36" x 96" x 29"	9	Ea.	105	945		
	Table, folding, composition, heavy duty laminated 30"x60"	1	Ea.	80	80		
	Table, round pedestal, laminated 36"	2	Ea.	125	250		
	Wastepaper receptacle, plastic	26	Ea.	7.35	191		
					45,520		
	TOTAL FURNITURE/FURNISHINGS						
	C. MISCELLANEOUS EQUIPMENT:						
	Calculator, commercial, 12-digit, printing	1	Ea.	180	180		
	Calculator, desktop, 10-digit printing	1	Ea.	65	65		
	Metal detector portable hand-operated	2	Ea.	185	370		
	Metal detector, walk through, high sensitivity heavy duty with console, arch & walk way	1	Ea.	4314	4314		
	Monitor, television, 25", color	2	Ea.	485	970		
	Postage scale, electronic, world-wide	1	Ea.	200	200		
	Sewing machine, table model	1	Ea.	950	950		
	Typewriter, electric, self-correcting	4	Ea.	795	3180		
	Video cassette recorder/player	2	Ea.	500	1000		
	TOTAL MISCELLANEOUS EQUIPMENT					11,229	
	D. INVESTMENT ITEMS:						
	Copy machine, upright, multicolor	1	Ea.	6500	6500		
	TOTAL INVESTMENT ITEMS					6500	

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COLLATERAL EQUIPMENT REQUIREMENTS (INITIAL OUTFITTING)					DATE
ACTIVITY (Name, Location, UIC)					APRIL 88
PROJECT TITLE					PROJECT NUMBER
NAVAFAC, ALEXANDRIA, VIRGINIA					MCON FY
WATERFRONT BRIG SMALL					CONST BOD
COG SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
	E. MEDICAL FURNITURE/FURNISHINGS				
	Cabinet, drug, stainless, double door, security, 2 shelves	1	Ea.	400	400
	Diagnostic set, otoscope and ophthalmoscope; battery, handle	1	Set	225	225
	Light, exam, floor stand, rotating, adjustable	2	Sec	92	184
	Oxygen unit, manual oxygen resuscitator, 682-liter cylinder	1	Ea.	1200	1200
	Refrigerator, 5 cubic feet, under-counter model	1	Ea.	200	200
	Resuscitator, portable with carrying case and ambu bag	1	Ea.	300	300
	Scale, physician's, with rod	1	Ea.	140	140
	Sphygmomanometer, hand model, aneroid	1	Ea.	225	225
	Stool, chrome, round, adjustable	1	Ea.	120	120
	Stretcher, folding, transfer stainless frame	1	Ea.	300	300
	Table, exam, 2 drawers, instrument warmer, paper roller, padded top	1	Ea.	1200	1200
	X-ray view box, single section	1	Ea.	1200	1200
	Waste receptacle, heavy gauge	1	Ea.	110	110
		1	Ea.	235	235
	TOTAL MEDICAL FURNITURE/ FURNISHINGS				6039
	F. MAINTENANCE SHOP:				
	Buffer, floor, combination buffer and polisher, 16" head, variable speed	1	Ea.	1100	1100
	Cabinet, parts, table top model, steel 32"x10"x12"	1	Ea.	125	125
	Drill, hand, 3/8"	1	Ea.	85	85
	Drill, hand, 1/2", variable	1	Ea.	152	152
	Grinder, bench, 6" double	1	Ea.	145	145
	Ladder, 6', step, fiberglass	1	Ea.	200	200
	Ladder, 8', step, fiberglass	1	Ea.	250	250
	Mitre box, with saw, 45°-90° cut	1	Ea.	156	156
	Saw, circular, hand-operated, 7 1/4"	1	Ea.	145	145
	Sprayer, compressor, 1-qt. paint	1	Ea.	125	125
	Stool, with back rest, adjustable	1	Ea.	114	114
	Truck, hand, tubular steel, 300 lb capacity	1	Ea.	105	105

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COLLATERAL EQUIPMENT REQUIREMENTS (INITIAL OUTFITTING)					DATE		
ACTIVITY (Name, Location, UIC)					APRIL 88		
PROJECT TITLE					PROJECT NUMBER	MCON FY	CONST 80D
COG SYMBOL AND FED STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUANTITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST		
	Vacuum, heavy duty, upright, wet/dry, 15 gal.	1	Ea.	765	765		
	Vacuum, upright, disposable bags	1	Ea.	300	300		
	Vise, bench mount, swivel, 4" openings	1	Ea.	155	155		
	Voltmeter/ammeter, combination	1	Ea.	165	165		
	Welding machine	1	Ea.	580	580		
	Workbench, 5', hardwood top, with drawers.	1	Ea.	750	750		
	TOTAL MAINTENANCE SHOP				3417		
	G. GYMNASIUM EQUIPMENT:						
	Volleyball stands	2	Ea.	25	50		
	Weight bench, adjustable, steel frame, padded	2	Ea.	285	570		
	TOTAL GYMNASIUM EQUIPMENT				620		
	H. COMMUNICATION EQUIPMENT:						
	Charger, portable radio (walkie-talkie), 6 space countertop	1	Ea.	700	700		
	Radio, portable (walkie-talkie), D.E.S., 6 watts	6	Ea.	3200	19,200		
	TOTAL COMMUNICATION EQUIPMENT				19,900		
	TOTAL FURNITURE/FURNISHINGS (A, B, C, D, E, F, G, H)				107,136		
3. Technical Equipment	Computer, PC, with word processing, dual floppy, 256K monochrome		Ea.	1495	4485		
	Printer, electronic, variable speed		Ea.	550	1650		
	TOTAL COMPUTER SYSTEM				6135		
4. Training Equipment	Projector, movie, 16 mm, sound	1	Ea.	1200	1200		
	Monitor, television, 25", color	1	Ea.	485	485		
	Video cassette recorder/player VHS	1	Ea.	500	500		
	TOTAL TRAINING EQUIPMENT				2185		

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COLLATERAL EQUIPMENT REQUIREMENTS (INITIAL OUTFITTING)					DATE APRIL 88		
ACTIVITY (Name, Location, UIC) NAVFAC, ALEXANDRIA, VIRGINIA							
PROJECT TITLE WATERFRONT BRIG SMALL					PROJECT NUMBER	MCON FY	CONST 800
COG SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST		
	TOTAL FURNITURE/FURNISHINGS				107.136		
	TOTAL TECHNICAL EQUIPMENT				6.135		
	TOTAL TRAINING EQUIPMENT				2.185		
	TOTAL				<u>115.456</u>		

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BIBLIOGRAPHY

American Society of Heating, Refrigerating and Air Conditioning Engineers,
1791 Tullie Circle, NE, Atlanta, GA 30329.

1985 Handbook - Fundamentals

NAVFACENGCOM DESIGN MANUALS AND PUBLICATIONS. Government agencies and the private sector may obtain standardization documents (specifications/handbooks) from the Commanding Officer, Naval Publications and Forms Center (NPFC), 5801 Tabor Avenue, Philadelphia, PA 19120. Government agencies must order design manuals/P-pubs using the Military Standard Requisitioning and Issue Procedure (MILSTRIP) system from NPFC. The private sector must write to NPFC, Cash Sales, Code 1051, 5801 Tabor Ave., Philadelphia, PA 19120.

DM 5 Series	Civil Engineering
DM-22	Petroleum Fuel Facilities
P-80	Facilities Planning Factors Criteria for Navy and Marine Corps Shore Installations
P-355	Seismic Design for Buildings

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REFERENCES

NOTE: Unless otherwise specified in the text, users of this handbook should utilize the latest revisions of the documents cited herein.

FEDERAL/MILITARY SPECIFICATIONS, STANDARDS, BULLETINS, HANDBOOKS, AND NAVFAC GUIDE SPECIFICATIONS:

The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise indicated, copies are available from Commanding Officer, Naval Publications and Forms Center, ATTENTION: NPODS, 5801 Tabor Avenue, Philadelphia, PA 19120-5099.

HANDBOOKS

MIL-HDBK-1004/4 Electrical Utilization Systems
MIL-HDBK-1190 Facility Planning and Design Guide

NAVFAC GUIDE SPECIFICATIONS

NFGS-11191 Detention and Security Windows
NFGS-11192 Detention Security Glazing
NFGS-11193 Detention Hollow Metal Frames, Doors, and Door Frames
NFGS 11194 Detention Hardware
NFGS 15400 Plumbing
NFGS 15850 Air Handling and Distribution Equipment
NFGS 16510 Lighting, Interior

NAVY MANUALS, DRAWINGS, P-PUBLICATIONS, AND MAINTENANCE OPERATING MANUALS:

Available from Commanding Officer, Naval Publications and Forms Center (NPFC), 5801 Tabor Avenue, Philadelphia, PA 19120-5099. To Order these documents: Government agencies must use the Military Standard Requisitioning and Issue Procedure (MILSTRIP); the private sector must write to NPFC, ATTENTION: Cash Sales, Code 1051, 5801 Tabor Avenue, Philadelphia, PA 19120-5099.

DM-1.01 Basic Architectural Requirements and Design Considerations
DM-3.01 Plumbing Systems

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DM-3.03 Heating, Ventilating, Air Conditioning, and
Dehumidifying Systems

P-442 Economic Analysis Handbook

NAVY DEPARTMENTAL INSTRUCTIONS: Available from Commanding Officer, Naval
Publications and Forms Center, ATTENTION: Code 3015, 5801 Tabor Avenue,
Philadelphia, PA 19120-5099.

SECNAVINST 1640.9 Disciplinary System Study and Facility Master
Plan

SECNAVINST 1640.9A Department of the Navy Corrections Manual

SECNAVINST 5600.16 Review of the Department of the Navy (DM)
Publications; Procedures Governing (v)

NON-GOVERNMENT PUBLICATIONS:

The following publications form a part of this document to the extent
specified herein. Unless otherwise specified, the issues of the documents
which are DOD adopted are those listed in the Department of Defense Index of
Specifications & Standards (DODISS).

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A615 Standard Specification for Deformed and Plain
Billet-Steel Bars for Concrete Reinforcement

ASTM C476 Standard Specification for Grout for Masonry
(DOD adopted)

ASTM E119 Standard Methods of Fire Tests of Building
Construction and Materials (DOD adopted)

(Unless otherwise indicated copies are available from American Society for
Testing and Materials, 1619 Race Street, Philadelphia, PA 19120).

NATIONAL FIRE PROTECTION ASSOCIATION

NFPA 90A Standard for the Installation of Air
Conditioning and Ventilating Systems

NFPA 101 Code for Safety to Life from Fire in
Buildings and Structures

(Unless otherwise indicated copies are available from National Fire Protection
Association, Batterymarch Park, Quincy, MA, 02269).

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UNDERWRITERS LABORATORIES, INC. (UL)

UL 514C

Nonmetallic Outlet Boxes, Flush-Device Boxes

(Unless otherwise indicated copies are available from Underwriters Laboratories, Inc., 333 Pfingston Road, Northbrook, IL 60062).

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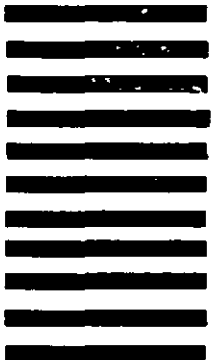


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