

## **CHAPTER 256: EMERGENCY DEPARTMENT (ED)**

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## 1. PURPOSE AND SCOPE

This document outlines Space Planning Criteria for Chapter 256: Emergency Department (ED). It applies to all Emergency Medicine clinical services in all medical facilities at the Department of Veterans Affairs (VA). Sections 4 and 5 of this document are implemented in the Space and Equipment Planning System (SEPS) so that planners working on Emergency Department projects, can create standardized baseline space plans.

The following VHA policy document(s), data source(s) and Industry Standards have been reviewed, referenced, and incorporated as appropriate:

VHA Directive 1101.05(2) *Emergency Medicine*, September 2, 2016, amended March 7, 2017

VHA Emergency Medicine Management Tool (EMMT) *System-wide Report FY15-19*

American College of Emergency Physicians (ACEP), Policy Statement on Emergency Department Planning and Resource Guidelines, April 2014

American College of Emergency Physicians (ACEP), The American Geriatrics Society (AGS), Emergency Nurses Association (ENA) & Society for Academic Emergency Medicine (SAEM), *Geriatric Emergency Department Guidelines*, January 2014

## 2. DEFINITIONS

Airborne Transmission: infection spread through exposure to those virus-containing respiratory droplets comprised of smaller droplets and particles that can remain suspended in the air over long distances (usually greater than 6 feet) and time (typically hours).

Automated Supply Dispensing Unit (ASDU): Automated supply or medication dispensing and inventory control systems.

Class (Imaging Room): Designation of an imaging room based on the level of intervention / acuity it is intended to support, with Class 1 being low-acuity diagnostic, Class 2 being higher-acuity diagnostic or interventional, and Class 3 being intraoperative.

Computed Tomography (CT): A CT scan, or computed tomography scan is a medical imaging procedure that uses computer-processed combinations of many X-ray measurements taken from different angles to produce cross-sectional (tomographic) images (virtual "slices") of specific areas of a scanned object, allowing the user to see inside the object.

Direct Line of Sight: A direct, unobstructed, line of sight from a clinician to a patient, which is essential for suicide prevention.

Emergency Department (ED): An ED is a Service that provides resuscitative therapy and stabilization in life threatening situations. It is staffed and equipped to provide initial evaluation, treatment, and disposition for a broad spectrum of illnesses, injuries, and psychiatric disorders, regardless of the level of severity. Care is provided in a clearly defined area dedicated to the ED and operates 24 hours a day, 7 days a week (24/7).



Emergency Department Integration Software (EDIS): The patient “tracking” system that is used in VA emergency departments across the country. This interfaces with the CPRS or CERNER electronic health record system.

Emergency Medical Services (EMS): EMS is a type of Emergency Service dedicated to providing out-of-hospital Acute medical care and/or transport to definitive care, to patients with illnesses and injuries which the patient, or the medical practitioner, believes constitutes a medical emergency.

Exam / Treatment Room (E/T Rm): An ED patient room used for a variety of functions including patient examination and various treatments or procedures; this room is sized and equipped based on the specific clinical function it is intended to support. The following E/T Rms are included in this document: General, Fast-Track, Airborne Infection Isolation, Mental Health, Bariatric, GYN and Protective Environment. Additionally, Eye/ENT and Orthopedic Treatment Rooms are also included.

Fast-Track: A patient area within the emergency department, used to limit overcrowding and reduce patients’ waiting times. Patients with low acuity needing minimal resources are commonly referred here, allowing these patients to move more quickly through the department and providing separation from patients requiring a higher level of care and longer care times.

First Look: A term utilized to identify a clinical staff member who initially observes the patient entering the facility through the walk-in entrance, usually as part of the triage/assessment and sorting function upon patient arrival.

Imaging Services: The medical specialty that utilizes imaging examinations with or without ionizing radiation to affect diagnosis or guide treatment. Techniques used in the Emergency Department include radiography, and computed tomography (CT) imaging.

Imaging Room: Designated room containing diagnostic equipment performing patient procedures such as radiography, ultrasound, and computed tomography (CT).

Picture Archiving and Communication System (PACS): A system designed for the digital capture, transfer, storage, and evaluation of medical images.

Resuscitation: The restoration of consciousness to a person whose respirations had temporarily ceased.

Sally Port: A secure, controlled walk-in entry way into the mental health unit of an emergency department. Typically, an enclosed room where no more than one door can be opened at a time, used for searching walk-in mental health patients before they enter a secured mental health unit within the emergency department.

Triage: The process of determining the priority of patients’ treatments by the severity of their condition or likelihood of recovery with and without treatment.

Ultrasound: Diagnostic ultrasound, also called sonography or diagnostic medical sonography, is an imaging method that uses high-frequency sound waves to produce images of structures within your body.



VA Medical Center (VAMC): A VA hospital facility that provides a diverse range of health care services to Veterans.

### **Space Planning / SEPS**

Accessible: A site, building, facility, or portion thereof that complies with provisions outlined in the Architectural Barriers Act of 1968 (ABA).

Architectural Barriers Act (ABA): A set of standards developed to ensure that all buildings financed with federal funds are designed and constructed to be fully accessible to everyone. This law requires all construction, renovation, or leasing of sites, facilities, buildings, and other elements, financed with federal funds, to comply with the Architectural Barriers Act Accessibility Standards (ABAAS). The ABAAS replaces the Uniform Federal Accessibility Standards (UFAS).

Average Length of Encounter (ALoE): Averaged length of time, in minutes, a patient spends in an Exam / Treatment Room interacting with a provider and the clinical support team. It is accounted from room “set-up” to “clean-up” by staff. This metric is used to determine the number of annual patient / provider encounters that take place in an Exam / Treatment Room which, in turn, is used to calculate the number of Exam / Treatment Rooms needed in a facility based on projected annual workload. The ALoE is determined with VHA SME input during a PG-18-9 clinical chapter revision / update.

Average Length of Stay (ALoS): The average number of days a patient Veteran stays in an inpatient care unit. The ALoS is used to calculate the number of patient bedrooms for a specialty by dividing the site’s projected workload by the ALoS.

Building Gross (BG) Factor: A Factor applied to the sum of all the Departmental Gross Square Footage (DGSF) in a project to determine the Building Gross Square Footage. This factor accounts for square footage used by the building envelope, structural systems, horizontal and vertical circulation including main corridors, elevators, stairs and escalators, shafts, and mechanical spaces. The Department of Veterans Affairs has set this factor at 1.35 and included guidance in case of variance when developing a Program for Design (PFD) in SEPS.

Clinic Stop: Per these criteria, a clinic stop is the workload unit of measure for space planning. Clinic Stops are codified by VSSC, when applicable, they are referenced by number in the calculation of workload driven patient care spaces in this document.

Department Net to Gross (DNTG) Factor: A parameter, determined by the VA for each clinical and non-clinical department PG-18-9 space planning criteria chapter, used to convert the programmed Net Square Feet (NSF) area to the Department Gross Square Feet (DGSF) area.

Encounter: An interaction between a patient Veteran and a VA provider or providers in an Exam Room / Treatment Room / Consultation Room / Procedure Room, spaces where a patient Veteran received clinical care.

Full-Time Equivalent (FTE): A staffing parameter equal to the amount of time assigned to one full time employee. It may be composed of several part-time employees whose



combined time commitment equals that of one full-time employee (i.e., 40 hours per week).

Functional Area (FA): The grouping of rooms and spaces based on their function within a clinical service or department.

Functional Area Criteria Statement (FACS): A verbalized mathematical / logical formulation assigned to a FA incorporating answers to Input Data Statements (IDSs) to determine the condition for providing the rooms / spaces listed in the FA in the baseline space program or Program for Design (PFD) for a project. Certain rooms / spaces may or may not have additional conditions.

Input Data Statement(s): A question or set of questions designed to elicit information about the healthcare project to generate a Program for Design (PFD) based on the parameters set forth in this set of documents. This information is processed through mathematical and logical operations in the VA Space and Equipment Planning System (SEPS).

JSN (Joint Schedule Number): A unique five alpha-numeric code assigned to each content item in the PG-18-5 Standard. JSNs are defined in DoD's Military Standard 1691 and included in SEPS Content Table.

Net Square Feet / Net Square Meters (NSF/NSM): The area of a room or space derived from that within the interior surface of the bounding walls or boundaries.

Patient Unique: (or Unique Patient), A Veteran patient counted as a unique in each division from which they receive care. Patient Uniques are included in the Registry for a VA Medical Center.

Program for Design (PFD): A project specific itemized listing of the spaces, rooms, and square foot area required for the proper operation of a specific service / department, and the corresponding area for each. PFDs are generated by SEPS based on the PG-18-9 Standard.

PG-18-5: A Department of Veterans Affairs' Equipment Guidelist Standard for planning, design, and construction of VA healthcare facilities; a Program Guide (PG) that lists assigned room contents (medical equipment, furniture, and fixtures) to each room in PG-18-9. PG-18-5 follows PG-18-9's chapter organization and nomenclature.

PG-18-9: A Department of Veterans Affairs' Program Guide for the Space Planning Criteria Standard use to develop space planning guidance for the planning, design, and construction of VA healthcare facilities; a Program Guide (PG) that provides space planning guidance for VA Medical Centers (VAMCs) and Community Bases Outpatient Clinics (CBOCs). PG-18-9 is organized by chapters, as of September 2021 there are 56 clinical and non-clinical PG-18-9 chapters; they are implemented and deployed in SEPS so that space planners working on VA healthcare projects can develop baseline space programs.

PG-18-12: A Department of Veterans Affairs' Design Guide Standard for planning, design and construction of VA healthcare facilities, a Program Guide (PG) that provides design guidance for VA Medical Centers (VAMCs) and Community Bases Outpatient Clinics (CBOCs).



The narrative section details functional requirements and the Room Template section details the planning and design of key rooms in PG-18-9. Not all PG-18-9 chapters have a corresponding PG-18-12 Design Guide; one Design Guide can cover more than one PG-18-9 chapter.

Provider: An individual who examines, diagnoses, treats, prescribes medication, and manages the care of patients within his or her scope of practice as established by the governing body of a healthcare organization.

Room Area: The square footage required for a clinical or non-clinical function to take place in a room / space. It takes into account the floor area required by equipment (medical and non-medical), furniture, circulation, and appropriate function / code-mandated clearances. Room area is measured in Net Square Feet (NSF).

Room Code (RC): A unique five alpha-numeric code assigned to each room in the PG-18-9 Standard. Room Codes in PG-18-9 are unique to VA and are the basis for SEPS's Space Table for VA projects.

Room Criteria Statement (RCS): A mathematical / logical formulation assigned to each room / space included in PG-18-9 incorporating answers to Input Data Statements (IDSs) to determine the provision of the room / space in the baseline space program or Program for Design (PFD) for a project.

Room Efficiency Factor: A factor that provides flexibility in the utilization of a room to account for patient delays, scheduling conflicts, and equipment maintenance. Common factors are in the 75% to 85% range. A room with 80% room efficiency provides a buffer to assume that this room would be available 20% of the time beyond the planned operational practices for this room. This factor may be adjusted based on the actual and/or anticipated operations and processes of the room/department at a particular facility.

SEPS: Acronym for Space and Equipment Planning System which produces equipment lists and Program for Design for a healthcare project based on specific information entered in response to Input Data Questions.

SEPS Importer: A style-based format developed to allow upload of RCSs and IDSs to SEPS to implement and operationalize space planning criteria in PG-18-9 in the SEPS digital tool. This format establishes the syntax used in the RCSs and allows the use of Shortcuts. Shortcuts allow developers of space planning criteria statements to simplify RCSs making full use of their logical and mathematical functionality. A shortcut can refer to an RCS, a room in any FA or a formula. Shortcuts are [bracketed] when used in FAs and RCSs and are listed along with their equivalences at the end of the Space Planning Criteria section.

Space Planning Concept Matrix (SPCM): A working document developed during the chapter update process. It lists all the rooms organized by Functional Area and establishes ratios between the directly and the indirectly workload driven rooms for the planning range defined in this document. The matrix is organized in ascending workload values in ranges reflecting existing facilities and potential future increase. Section 5 of this document Space Planning Criteria reflects the values in the SPCM.



**Stop Code:** A measure of workload including clinic stops forecasted by the Office of Policy and Planning (OPP) for all Strategic Planning Categories at Medical Center and Outpatient Clinic levels.

**Telehealth:** The use of technology, such as computers and mobile devices, to manage healthcare remotely. It includes a variety of health care services, including but not limited to online support groups, online health information and self-management tools, email and online communication with health care providers, remote monitoring of vital signs, video, or online doctor visits. Depending on the concept of operations for this space, it may be equipped as an exam room or as a consult room with video/camera capability.

**Utilization Rate:** A factor used in the calculation of a directly workload-driven room throughput. It represents, in a percent value, the room is idle based on the planning assumptions. For example, if a directly workload-driven room is available for use 8 hours a day, the Utilization Rate represents the assumed time it will be used, an 85% utilization rate indicates, for planning purposes, the room will be used 6.8 hours a day. An additional directly workload-driven room will be provided in the calculation once the previous room has reached 100% utilization. The utilization Rate is embedded in the Room Throughput value calculated in Section 3 of this document.

**VA Room Family (VA RF):** An organizational system of rooms / spaces grouped by function, a 'Room Family'. There are two "Orders" in the VA RF: Patient Care and Patient Care Support; Patient Care features four sub-orders: Clinical, Inpatient, Outpatient and Residential Clinical. There are also four sub-orders in the Patient Care Support order: Building Support, Clinical Support, Staff Support and Veteran Support. Each room in a Family has a unique Room Code and NSF assigned based on its Room Contents and function which correspond to the specific use of the room. The same RC can be assigned to different Room Names with the same function in this document and can be assigned an NSF that varies based on the PG-18-5 Room Contents assigned to the room.

**VA Technical Information Library (TIL):** A resource website maintained by the Facilities Standards Service (FSS) Office of Construction and Facilities Management (CFM) containing a broad range of technical publications related to the planning, design, leasing, and construction of VA facilities. VA-TIL can be accessed at: <https://www.cfm.va.gov/TIL/>

**Workload:** Workload is the anticipated number of procedures, clinic stops, clinic encounters etc. that is processed through a department/service area. The total workload applied to departmental operational assumptions will determine overall room requirements by modality.

**Workstation:** Area outfitted with equipment and furnishings, typically allocated 56 NSF each. Managers and other staff with no direct reports as well as part-time, seasonal, and job-sharing staff may qualify for a workstation. Such environments are particularly conducive to team-oriented office groupings. These environments work best when they have access to conference and small group meeting spaces.





### 3. OPERATING RATIONALE AND BASIS OF CRITERIA

- A. Space Planning parameters and metrics in this document are based on the ED Space Planning Criteria Matrix (SPCM) developed with participation of VA ED SMEs, VA CFM personnel and Consultants during the space planning and design standards update process. The ED SPCM lists all the spaces a VA ED site would require based on its projected workload for 48 Exam / Treatment Room ranges.
- B. Room quantity and area (NSF) for every room in each of the 48 E/T Rm ranges is determined in the ED SPCM. These values are reflected in the Room Criteria Statements (placed immediately below each room name, room code and NSF/NSM) for each room in Section 5 of this document. Each range represents an annual ED E/T Rm throughput of 1,051 patients; space planning criteria herein developed cover a projected workload of between 840 and 50,448 annual ED encounters. The 48 ranges are subdivided in four Modules of 12 E/T Rms each.
- C. VSSC's EMMT EDIS FY15-19 Report for 111 High, Medium and Low Complexity sites was used to develop the ranges covering the workload demand of the existing VA ED sites as well as for potential future larger facilities.
- D. Annual ED E/T Room Throughput has been determined based on the following parameters:
  - 1. Target VA Emergency Department Average Length of Encounter (ALoE) = 200 mins.
  - 2. Number of operating days / year: 365
  - 3. High demand daily hours of operation: 12 (720 mins.)
  - 4. Resulting annual E/T Room throughput (at 100%): 1,314 encounters
  - 5. Adopted annual E/T Room throughput (at 80% Utilization Rate): 1,051 encounters
- E. The ED SPCM range values are available to planners in the Space and Equipment Planning System (SEPS) software hosted at MAX.gov. Sections 4 and 5 of this Program Guide are implemented in SEPS. Space planners working on VA ED projects can generate a Program for Design (PFD) by entering the projected Stop Code 130 workload for the target year for the VA Station they are working on. The PFD generated by SEPS reflects the values in the SPCM and becomes the baseline space program to begin the project planning process.

For example:  
A SC130 projection of 6,800 annual encounters corresponds to seven E/T Rooms; eight E/T Rooms will be generated.  
A SC130 projection of 24,175 annual encounters will generate twenty-four E/T Rooms.
- F. SEPS incorporates a Net-to-Department Gross factor (NTDG) factor of **1.65** and a Building Gross factor of 1.35 in the space calculation to generate the Department Gross Square Feet (DGSF) and the Building Gross Square Feet (BGSF) respectively for the project based on the aggregate resulting Net Square Feet (NSF) for each range. Planners can adjust the BG factor in SEPS; the DG factor is not changeable.





- G. SEPS also generates the Project Room Contents (PRC) for each room in the project. The PRC includes the equipment, furniture and fixtures assigned to each room per VA256 ED PG-18-5: Equipment Guidelist.
- H. PG-18-12: Design Guide contains a Narrative, detailed functional diagrams, and detailed room templates for sixteen unique ED rooms.
- I. The space planning and design Program Guides: PG-18-5, PG-18-9 and PG-18-12 are available at the [Department of Veterans Affairs Office of Construction and Facilities Management \(CFM\) Technical Information Library \(TIL\)](#) website.
- J. Assignment of the resulting workload generated E/T Rms for a project is done by range based on Tables 1 and 2 below.
  - A. Cols (1) and (2): Workload values for each range.
  - B. Col (3): Module generated
  - C. Col (4): Number of workload driven ED E/T Rms generated.
  - D. Col (5): E/T Rm type:
    - GEN: General
    - FSTK: Fast Track
    - All: Airborne Infection Isolation
    - MH: Mental Health
    - GYN: Gynecology
    - PE: Protective Environment
  - E. Col (6)-(13): Assignment of each E/T Rm type per range, highlighted value indicates value change in columns.



**TABLE 1: ALLOCATION OF ED EXAM / TREATMENT ROOMS – RANGES 1 -24**

Projected Workload SC130 From	Projected Workload SC130 To	Module	ED E/T Rms Generated	ED E/T Rm Type	GEN	FSTK	ALL	MH	BAR	GYN	PE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
840	1,051	A	1	GEN	1	0	0	0	0	0	0
1,052	2,102	A	2	FSTK	1	1	0	0	0	0	0
2,103	3,153	A	3	ALL	1	1	1	0	0	0	0
3,154	4,204	A	4	ALL	1	1	2	0	0	0	0
4,205	5,255	A	5	MH	1	1	2	1	0	0	0
5,256	6,306	A	6	MH	1	1	2	2	0	0	0
6,307	7,357	A	7	BAR	1	1	2	2	1	0	0
7,358	8,408	A	8	GYN	1	1	2	2	1	1	0
8,409	9,459	A	9	PE	1	1	2	2	1	1	1
9,460	10,510	A	10	GEN	2	1	2	2	1	1	1
10,511	11,561	A	11	FSTK	2	2	2	2	1	1	1
11,562	12,612	A	12	GEN	3	2	2	2	1	1	1
12,613	13,663	B	13	GEN	4	2	2	2	1	1	1
13,664	14,714	B	14	FSTK	4	3	2	2	1	1	1
14,715	15,765	B	15	ALL	4	3	3	2	1	1	1
15,766	16,816	B	16	ALL	4	3	4	2	1	1	1
16,817	17,867	B	17	MH	4	3	4	3	1	1	1
17,868	18,918	B	18	MH	4	3	4	4	1	1	1
18,919	19,969	B	19	BAR	4	3	4	4	2	1	1
19,970	21,020	B	20	GYN	4	3	4	4	2	2	1
21,021	22,071	B	21	GEN	5	3	4	4	2	2	1
22,072	23,122	B	22	GEN	6	3	4	4	2	2	1
23,123	24,173	B	23	FSTK	6	4	4	4	2	2	1
24,174	25,224	B	24	GEN	7	4	4	4	2	2	1

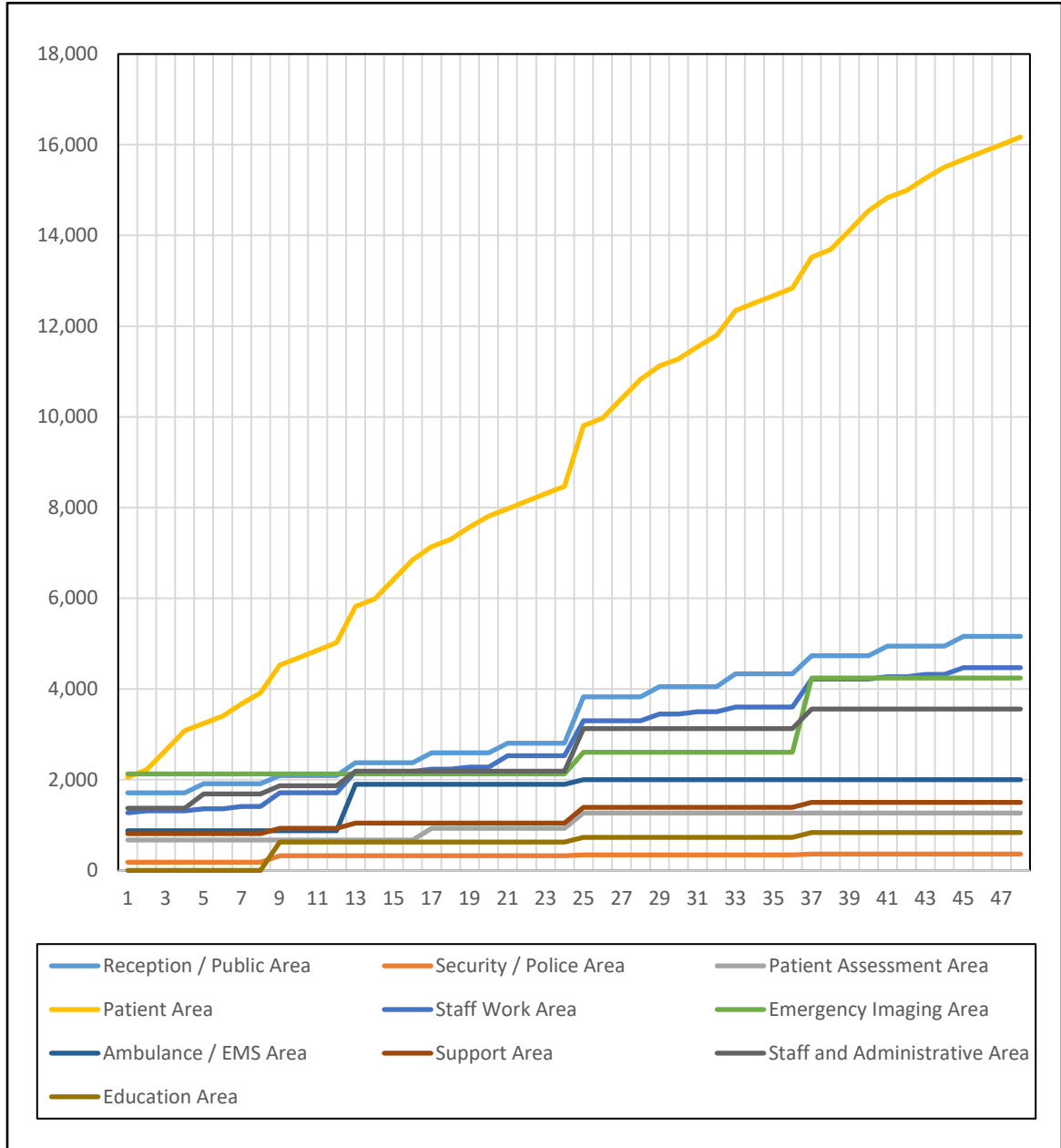


**TABLE 2: ALLOCATION OF ED EXAM / TREATMENT ROOMS – RANGES 25 -48**

Projected Workload SC130 From	Projected Workload SC130 To	Module	ED E/T Rms Generated	ED E/T Rm Type	GEN	FSTK	ALL	MH	BAR	GYN	PE
					(6)	(7)	(8)	(9)	(10)	(11)	(12)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
25,225	26,275	C	25	GEN	8	4	4	4	2	2	1
26,276	27,326	C	26	FSTK	8	5	4	4	2	2	1
27,327	28,377	C	27	ALL	8	5	5	4	2	2	1
28,378	29,428	C	28	ALL	8	5	6	4	2	2	1
29,429	30,479	C	29	MH	8	5	6	5	2	2	1
30,480	31,530	C	30	MH	8	5	6	6	2	2	1
31,531	32,581	C	31	BAR	8	5	6	6	3	2	1
32,582	33,632	C	32	GYN	8	5	6	6	3	3	1
33,633	34,683	C	33	PE	8	5	6	6	3	3	2
34,684	35,734	C	34	GEN	9	5	6	6	3	3	2
35,735	36,785	C	35	FSTK	9	6	6	6	3	3	2
36,786	37,836	C	36	GEN	10	6	6	6	3	3	2
37,837	38,887	D	37	GEN	11	6	6	6	3	3	2
38,888	39,938	D	38	FSTK	11	7	6	6	3	3	2
39,939	40,989	D	39	ALL	11	7	7	6	3	3	2
40,990	42,040	D	40	ALL	11	7	8	6	3	3	2
42,041	43,091	D	41	MH	11	7	8	7	3	3	2
43,092	44,142	D	42	MH	11	7	8	8	3	3	2
44,143	45,193	D	43	BAR	11	7	8	8	4	3	2
45,194	46,244	D	44	GYN	11	7	8	8	4	4	2
46,245	47,295	D	45	GEN	12	7	8	8	4	4	2
47,296	48,346	D	46	GEN	13	7	8	8	4	4	2
48,347	49,397	D	47	FSTK	13	8	8	8	4	4	2
49,398	50,448	D	48	GEN	14	8	8	8	4	4	2



**CHART 1: FUNCTIONAL AREA AGGREGATE NSF BY RANGE**



**4. INPUT DATA STATEMENTS (IDS)**

Text in brackets below each Input Data Statement correspond to the SEPS Importer shortcuts.

- A. How many Emergency Department (ED) annual Clinic Stops (Stop Code 130) are projected for this facility? (W) (Values: 840 to 50,448) (Default:840)



## 5. SPACE PLANNING CRITERIA

### A. FA 1: EXAM / TREATMENT ROOM CALCULATION

1. **Number of ED Exam / Treatment Rooms, Clncl Sprt (SC107) ..... 0 NSF (0 NSM)**
  - a. *Provide one if [Annual Emergency Department (ED) Clinic Stops (Stop Code 130) projected] is between 840 and 1,051*
  - b. *Provide an additional one for every portion of 1,051 [Annual Emergency Department (ED) Clinic Stops (Stop Code 130) projected] greater than 1,051 if [Annual Emergency Department (ED) Clinic Stops (Stop Code 130) projected] is between 1,051 and 50,448 (Maximum 48)*

### B. FA 2: RECEPTION / PUBLIC AREA

1. **ED Walk-in Vestibule, Bldg Sprt (SB291) .....100 NSF (9.3 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*
2. **ED Security Vestibule, Bldg Sprt (SB295).....80 NSF (7.5 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

This space is dedicated to Security Screening.

3. **ED Metal Detector Station, Police Svc (SB853) .....160 NSF (14.9 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 28*
  - b. *Provide one at 240 NSF if [ED Exam / Treatment Rooms] is between 29 and 48*

Allocated NSF accommodates Security Scanner, Walk-thru Metal Detector, and circulation.

4. **ED Private Search Room, Police Svc (SB854) .....120 NSF (11.2 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 8*
  - b. *Provide one at 140 NSF if [ED Exam / Treatment Rooms] is between 9 and 24*
  - c. *Provide one at 160 NSF if [ED Exam / Treatment Rooms] is between 25 and 48*

Locate directly accessible from Security Vestibule and Metal Detector Station.

5. **ED General Waiting, Bldg Sprt (SB003) .....215 NSF (20.0 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 4*
  - b. *Provide one at 415 NSF if [ED Exam / Treatment Rooms] is between 5 and 8*
  - c. *Provide one at 575 NSF if [ED Exam / Treatment Rooms] is between 9 and 12*
  - d. *Provide one at 720 NSF if [ED Exam / Treatment Rooms] is between 13 and 16*
  - e. *Provide one at 935 NSF if [ED Exam / Treatment Rooms] is between 17 and 20*
  - f. *Provide one at 1,150 NSF if [ED Exam / Treatment Rooms] is between 21 and 24*
  - g. *Provide one at 1,295 NSF if [ED Exam / Treatment Rooms] is between 25 and 28*
  - h. *Provide one at 1,440 NSF if [ED Exam / Treatment Rooms] is between 29 and 32*
  - i. *Provide one at 1,725 NSF if [ED Exam / Treatment Rooms] is between 33 and 36*
  - j. *Provide one at 1,870 NSF if [ED Exam / Treatment Rooms] is between 37 and 40*
  - k. *Provide one at 2,085 NSF if [ED Exam / Treatment Rooms] is between 41 and 44*
  - l. *Provide one at 2,300 NSF if [ED Exam / Treatment Rooms] is between 45 and 48*



This space shall have direct access to outside windows for daylight. It shall have a direct line of sight from the Reception / First Look Nurse desk. Allocated NSF accommodates Standard Chairs, Bariatric Chairs, Accessible Spaces, and internal circulation per Table below.

**TABLE 3: GENERAL WAITING SPACE ALLOCATION**

E/T Rooms	NSF	Stdrd Chair	Bariatric Chair	Accessible Space(s)	Total People
1 to 4	215	8	1	1	10
5 to 8	415	16	2	2	20
9 to 12	575	24	3	3	30
13 to 16	720	32	4	4	40
17 to 20	935	40	5	5	50
21 to 24	1,150	48	6	6	60
25 to 28	1,295	56	7	7	70
29 to 32	1,440	64	8	8	80
33 to 36	1,725	72	9	9	90
37 to 40	1,870	80	10	10	100
41 to 44	2,085	88	11	11	110
45 to 48	2,300	96	12	12	120

- 6. ED Family Waiting, Bldg Sprt (SB051) .....125 NSF (11.7 NSM)**  
 a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24  
 b. Provide one at 200 NSF if [ED Exam / Treatment Rooms] is between 25 and 48

Minimum allocated NSF accommodates one lounge chair @ 12 NSF, one 2-seat sofa at 32 NSF, one accessible space @ 10 NSF, and circulation; total four people.  
 Allocated 200 NSF accommodates one lounge chair @ 12 NSF, one 2-seat sofa @ 32 NSF, one 3-seat sofa @ 40 NSF, one accessible space @ 10 NSF, and circulation; total seven people.

- 7. ED Information Kiosk, Bldg Sprt (SB113).....40 NSF (3.8 NSM)**  
 a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24  
 b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48

Facility and medical information resource for patients and visitors. Locate accessible from General and Family Waiting.

- 8. ED Reception, Clncl Sprt (SC183) .....85 NSF (7.9 NSM)**  
 a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24  
 b. Provide one at 260 NSF if [ED Exam / Treatment Rooms] is between 25 and 48

Minimum allocated space accommodates one Reception personnel position; 260 NSF accommodates two positions.



- 9. ED First Look Patient Waiting, Bldg Sprt (SB003).....100 NSF (9.3 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*  
*b. Provide one at 170 NSF if [ED Exam / Treatment Rooms] is between 37 and 48*

Minimum allocated space accommodates two standard chairs @ 9 NSF each, one bariatric chair @ 14 NSF, one accessible space @ 10 NSF, and circulation; total four people; 170 NSF accommodates six standard chairs @ 9 NSF each, one bariatric chair @ 14 NSF, one accessible space @ 10 NSF, and circulation; total eight people.

- 10. First Look Station, ED (CED11) .....60 NSF (5.6 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

This Station shall be located near / adjacent to the Reception. The First Look nurse will be stationed at an open desk that observes the walk-in entrance and the Waiting Room. This nurse will complete a rapid visual assessment of every arriving patient and make the key decision if the patient needs to be rushed into the ED for life-saving interventions. If not in need of life-saving interventions, the First Look nurse will direct the patient to the appropriate location for further assessment (triage) or treatment (direct bedding) based on the preferred flow of the ED

- 11. ED Copy / Supply Alcove, Stff Sprt (SS268).....40 NSF (3.8 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*  
*b. Provide one at 60 NSF if [ED Exam / Treatment Rooms] is between 13 and 24*  
*c. Provide one at 80 NSF if [ED Exam / Treatment Rooms] is between 25 and 48*

- 12. ED Volunteer Welcome Station, Clncl Sprt (SC005) .....80 NSF (7.5 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

- 13. ED Patient Discharge Room, Clncl Sprt (SC001) .....100 NSF (9.3 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24*  
*c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36*  
*d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48*

Quiet, private area for patients to relax while waiting for their transportation after being discharged from the ED. Allocated NSF accommodates two lounge chairs / recliners at 30 NSF each.

- 14. ED Quiet / Consult Room, Clncl Sprt (SC271).....125 NSF (11.7 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

This space accommodates private interviews with patients and family; furnished to accommodate 1:1 Interviews and consultations for scheduled patients; locate near General Patient Waiting.





- 15. ED Female Visitor Toilet, Bldg Sprt (SB202).....60 NSF (5.6 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

Allocated NSF accommodates one accessible toilet @ 25 NSF, one wall-hung lavatory @ 12 NSF, ABA clearances, and circulation.

- 16. ED Male Visitor Toilet, Bldg Sprt (SB203) .....60 NSF (5.6 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

Allocated NSF accommodates one accessible toilet @ 25 NSF, one wall-hung lavatory @ 12 NSF, ABA clearances, and circulation.

- 17. ED Vending Alcove, VC Svc (SV692) .....40 NSF (3.8 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*  
*b. Provide one at 60 NSF if [ED Exam / Treatment Rooms] is between 13 and 24*  
*c. Provide one at 80 NSF if [ED Exam / Treatment Rooms] is between 25 and 36*  
*d. Provide one at 100 NSF if [ED Exam / Treatment Rooms] is between 37 and 48*

- 18. ED Water Fountain Alcove, Bldg Sprt (SB122) .....20 NSF (1.9 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

Baseline requirement, please verify and comply with Plumbing Code as applicable.

- 19. ED Wheelchair / Stretcher / Lift Parking, Bldg Sprt (SB258).....100 NSF (9.3 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

This space allows temporary holding of beds, stretchers, gurneys, reclining chairs, wheelchairs for patients who arrive at the ED with these transport devices or need them to be transported to another area within the VAMC.

**C. FA 3: SECURITY / POLICE AREA**

- 1. ED Security Station, Police Svc (SB851).....100 NSF (9.3 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

This station is intended as a satellite location to the Police primary Operations Center. Ideally, the Security Station would have direct visible control of both the walk-in and EMS entrances, if both cannot be achieved, then priority is to have control of the walk-in entrance. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

- 2. ED Security Room, Police Svc (SB811).....140 NSF (13.1 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 24*  
*b. Provide one at 160 NSF if [ED Exam / Treatment Rooms] is between 25 and 36*  
*c. Provide one at 180 NSF if [ED Exam / Treatment Rooms] is between 37 and 48*

This station or room is intended as a satellite location to the police primary operations center. The decision to go with a partially open Security Station or a



glass-enclosed Security Room is up to the discretion of an individual VAMC to determine based on their requirements. Coordinate with VA Physical Security and Resiliency Design Manual, section 5.5.4 Emergency Department, Security. When an open Security Station is used then the designer needs to implement other design features to provide controls to safeguard operating elements within the Security Station. This space should always have two ways to enter/exit, with one preferably directly to the exterior. Ideally, the Security Station/Room would have direct visible control of both the walk-in and EMS entrances. But if both cannot be achieved, then priority is to have control of the walk-in entrance.

- 3. **ED Secure Evidence Room, Police Svc (SB821) .....80 NSF (7.5 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

**D. FA 4: PATIENT ASSESSMENT AREA**

- 1. **MH Sally Port, ED (CED06).....100 NSF (9.3 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 17 and 48*

This space is for Mental Health patients and provided when three MH E/T Rms or greater are generated (Refer to Tables 1 & 2)

- 2. **ED MH Private Search Room, Police Svc (SB854).....160 NSF (14.9 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 17 and 48*

This space is for Mental Health patients and provided when three MH E/T Rms or greater are generated (Refer to Tables 1 & 2)

- 3. **ED Patient Belongings Room, Lgstcs Svc (SB711).....80 NSF (7.5 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*
  - b. *Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

Typically, patient’s personal belongings will remain in the Exam / Treatment room, where a patient is receiving treatment. However, at times a Veteran will come to the ED that may be homeless, or just carrying extra belongings and these items must be stored in a separate area. This room shall include lockers to secure each patient’s belongings, with a removable key that is kept with the patient until they are ready to leave and pick up their belongings again.

- 4. **ED Patient Height / Weight Alcove, Clncl Sprt (SC067) .....40 NSF (3.8 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*
  - b. *Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

- 5. **Triage Room, ED (CED12) .....150 NSF (14.0 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*
  - b. *Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

The Triage Room shall be designed with direct access and visual observation of the ED Waiting Room. If possible, the Security Station should have visibility through the glass-front Triage Room to observe first interaction between nurse and patient. The



room is also designed to have flow-through patient movement, so they enter directly from the Waiting Room and exit directly into the clinical area of the ED. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

- 6. Bariatric Triage Room, ED (CED13) .....180 NSF (16.8 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

The Bariatric Triage Room has the same purpose, and design, as the Triage Room, except it is to be larger in size to accommodate bariatric patients, patients on motorized wheelchairs, or a larger family group, as needed. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

- 7. ED Triage Patient Universal Toilet / Shower, Bldg Sprt (SB199) .....85 NSF (7.9 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

Allocated NSF accommodates one accessible toilet @ 25 NSF, one accessible wall-hung lavatory @ 13 NSF, one accessible shower @ 28 NSF, ABA clearances, and circulation.

- 8. ED Triage Staff Workstation, Staff Sprt (SS215) .....50 NSF (4.7 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

- 9. ED PPE Alcove, SPS (SC856) .....20 NSF (1.9 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

This alcove is provided to dispense and don protective clothing prior to entering the Patient Area.

- 10. ED Medical Supplies Alcove, Clncl Sprt (SC282).....30 NSF (2.8 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

- 11. ED Clean Utility Alcove, Lgstcs Svc (SB735) .....15 NSF (1.4 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

This area provides storage for sterile and non-sterile medical supplies.

- 12. ED Soiled Utility Alcove, Lgstcs Svc (SB741) .....20 NSF (1.9 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

This room is used for disposal of waste material as well as temporary holding of items to be returned to SPS.

**E. FA 5: PATIENT AREA**

- 1. ED Results Pending Accessible Waiting, Bldg Sprt (SB071) .....105 NSF (9.8 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*



A small internal waiting room for “vertical” patients that had tests completed and are comfortable awaiting test results in a chair or recliner. This space should be near a Consultation Room so results and discharge instructions can be delivered in a confidential environment. Allocated space accommodates one standard chair @ 9 NSF, one bariatric chair @ 14 NSF, two accessible spaces @ 10 NSF each, and circulation; total four people.

**2. Fast Track Exam / Treatment Room, ED (CED22)..... 160 NSF (14.9 NSM)**

- a. *Provide one if [ED Exam / Treatment Rooms] is between 2 and 10*
- b. *Provide two if [ED Exam / Treatment Rooms] is between 11 and 13*
- c. *Provide three if [ED Exam / Treatment Rooms] is between 14 and 22*
- d. *Provide four if [ED Exam / Treatment Rooms] is between 23 and 25*
- e. *Provide five if [ED Exam / Treatment Rooms] is between 26 and 34*
- f. *Provide six if [ED Exam / Treatment Rooms] is between 35 and 37*
- g. *Provide seven if [ED Exam / Treatment Rooms] is between 38 and 46*
- h. *Provide eight if [ED Exam / Treatment Rooms] is between 47 and 48*

The fast-track system at the emergency department is similar to urgent care. Patients who are triaged (or sorted) into the fast-track system typically come in with lower acuity complaints like a sore throat, a rash, urinary tract infections, and minor injuries. Most of the time, patients that go to fast-track are generally healthy, and their complaints can be diagnosed through a history, physical, and x-ray or point of care test (such as a urine dip). For maximum flexibility, this room is designed exactly like the General Exam/Treatment room, except it is equipped with a reclining type of exam chair rather than a stretcher. Depending on surge demands within the ED, or time of day, this room can then be utilized as a General E/T Room also. The Fast-Track E/T Room should be located near the patient assessment area. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**3. Fast Track PPE / O.R. Equipment Alcove, ED (CED41) ..... 5 NSF (0.5 NSM)**

- a. *Provide one if [ED Exam / Treatment Rooms] is between 2 and 10*
- b. *Provide two if [ED Exam / Treatment Rooms] is between 11 and 13*
- c. *Provide three if [ED Exam / Treatment Rooms] is between 14 and 22*
- d. *Provide four if [ED Exam / Treatment Rooms] is between 23 and 25*
- e. *Provide five if [ED Exam / Treatment Rooms] is between 26 and 34*
- f. *Provide six if [ED Exam / Treatment Rooms] is between 35 and 37*
- g. *Provide seven if [ED Exam / Treatment Rooms] is between 38 and 46*
- h. *Provide eight if [ED Exam / Treatment Rooms] is between 47 and 48*

This alcove is provided to dispense and don protective clothing prior to entering the Patient Area, locate this room adjacent to the Fast Track E/T Rm. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.



- 4. ED Consult Room, Clncl Sprt (SC271) .....120 NSF (11.2 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24*
  - c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 32*
  - d. Provide four if [ED Exam / Treatment Rooms] is between 33 and 48*

This space provides for a private area for Physicians or Nurse Practitioner to explain a procedure, obtain informed consent, explain discharge instructions, and follow-up with the patient, or patient’s family. The Consult Room(s) should be adjacent to the Results Pending Waiting where multiple patients may be awaiting testing results, thus offering a location for private discussions with the clinical teams.

- 5. ED Women’s Health Consult Room, Clncl Sprt (SC273).....120 NSF (11.2 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

This space accommodates private interviews with patients and family; furnished to accommodate Means Testing; locate near Reception.

- 6. ED Women’s Health Storage Room, Wm Vet Svc (CWV91).....80 NSF (7.5 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

- 7. Point -of-Care (POC) Testing Alcove, ED (CED33).....50 NSF (4.7 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24*
  - c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36*
  - d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48*

Point-of-Care Testing (POC) enables more rapid clinical decision-making in the process of diagnosis, treatment choice and monitoring, and prognosis, as well as operational decision making and resource utilization. Possible tests that can be performed at the POC Testing alcove include NTpro-BNP/BNP, Troponin, D-Dimer, Glucose, Ketones, Pregnancy, Creatinine, Lactate, Influenza, HIV, Blood gas, and electrolytes. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

- 8. ED Patient Toilet, Bldg Sprt (SB201).....60 NSF (5.6 NSM)**
  - a. Provide two if [ED Exam / Treatment Rooms] is between 1 and 12*
  - b. Provide four if [ED Exam / Treatment Rooms] is between 13 and 24*
  - c. Provide six if [ED Exam / Treatment Rooms] is between 25 and 36*
  - d. Provide eight if [ED Exam / Treatment Rooms] is between 37 and 48*

Allocated NSF accommodates one accessible toilet @ 25 NSF, one accessible wall-hung lavatory @ 13 NSF, ABA clearances, and circulation.



**9. General Exam / Treatment Room, ED (CED21).....160 NSF (14.9 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 9
- b. Provide two if [ED Exam / Treatment Rooms] is 10 or 11
- c. Provide three if [ED Exam / Treatment Rooms] is 12
- d. Provide four if [ED Exam / Treatment Rooms] is between 13 and 20
- e. Provide five if [ED Exam / Treatment Rooms] is 21
- f. Provide six if [ED Exam / Treatment Rooms] is 22 or 23
- g. Provide seven if [ED Exam / Treatment Rooms] is 24
- h. Provide eight if [ED Exam / Treatment Rooms] is between 25 and 33
- i. Provide nine if [ED Exam / Treatment Rooms] is 34 or 35
- j. Provide ten if [ED Exam / Treatment Rooms] is 36
- k. Provide eleven if [ED Exam / Treatment Rooms] is between 37 and 44
- l. Provide twelve if [ED Exam / Treatment Rooms] is 45
- m. Provide thirteen if [ED Exam / Treatment Rooms] is 46 or 47
- n. Provide fourteen if [ED Exam / Treatment Rooms] is 48

The General Exam / Treatment Room is used for patient consultation, examination, and various noninvasive treatments and procedures. The patient care permitted in a General Exam / Treatment Room is treatments that may require high-level disinfected or sterile instruments but do not require the environmental controls of a procedure room. Some examples include blood draws, injections/shots, minor cuts, and sprains (including wound packing), stitches and casting, minor dermatological procedures (including removal of skin tags), PICC (percutaneously inserted central catheter) line placement and removal, and needle biopsies. This room shall be provided with overhead H-style patient lift systems, capable of 550-pound lifting capacity, to aid staff in moving patients on/off a stretcher, or recliner. It shall have a 5'-6" diameter clear turning space within the room. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**10. ED General E/T Room PPE / Equipment Alcove, ED (CED41)..... 5 NSF (0.5 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 9
- b. Provide two if [ED Exam / Treatment Rooms] is 10 or 11
- c. Provide three if [ED Exam / Treatment Rooms] is 12
- d. Provide four if [ED Exam / Treatment Rooms] is between 13 and 20
- e. Provide five if [ED Exam / Treatment Rooms] is 21
- f. Provide six if [ED Exam / Treatment Rooms] is 22 or 23
- g. Provide seven if [ED Exam / Treatment Rooms] is 24
- h. Provide eight if [ED Exam / Treatment Rooms] is between 25 and 33
- i. Provide nine if [ED Exam / Treatment Rooms] is 34 or 35
- j. Provide ten if [ED Exam / Treatment Rooms] is 36
- k. Provide eleven if [ED Exam / Treatment Rooms] is between 37 and 44
- l. Provide twelve if [ED Exam / Treatment Rooms] is 45
- m. Provide thirteen if [ED Exam / Treatment Rooms] is 46 or 47
- n. Provide fourteen if [ED Exam / Treatment Rooms] is 48





This alcove is provided to dispense and don protective clothing prior to entering the Patient Area. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**11. Airborne Infection Isolation (All)**

**Exam / Treatment Room, ED (CED27).....200 NSF (18.6 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is 3
- b. Provide two if [ED Exam / Treatment Rooms] is between 4 and 14
- c. Provide three if [ED Exam / Treatment Rooms] is 15
- d. Provide four if [ED Exam / Treatment Rooms] is between 16 and 26
- e. Provide five if [ED Exam / Treatment Rooms] is 27
- f. Provide six if [ED Exam / Treatment Rooms] is between 28 and 38
- g. Provide seven if [ED Exam / Treatment Rooms] is 39
- h. Provide eight if [ED Exam / Treatment Rooms] is between 40 and 48

A negative-pressure Airborne Infection Isolation (All) E/T Room is designed to isolate a patient who is suspected of, or has been diagnosed with, an airborne infectious disease. Therefore, the negative-pressure isolation room, is designed to help prevent the spread of a disease via respiratory droplets from an infected patient. This Exam / Treatment Room shall have an Anteroom where all entry/exit of patients, staff, and equipment into the All E/T room must pass through. This room has a dedicated patient Toilet that can only be accessed directly from the All room. This room does have special requirements for airflow that are further defined in the Mechanical Design portion of this Design Guide. Otherwise, this room is equipped just like a General E/T Room. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**12. Airborne Infection Isolation (All) Anteroom, ED (CED28) .....170 NSF (15.8 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is 3
- b. Provide two if [ED Exam / Treatment Rooms] is between 4 and 14
- c. Provide three if [ED Exam / Treatment Rooms] is 15
- d. Provide four if [ED Exam / Treatment Rooms] is between 16 and 26
- e. Provide five if [ED Exam / Treatment Rooms] is 27
- f. Provide six if [ED Exam / Treatment Rooms] is between 28 and 38
- g. Provide seven if [ED Exam / Treatment Rooms] is 39
- h. Provide eight if [ED Exam / Treatment Rooms] is between 40 and 48

Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.





**13. Airborne Infection Isolation (All) Patient Toilet, ED (CED29) .....60 NSF (5.6 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is 3
- b. Provide two if [ED Exam / Treatment Rooms] is between 4 and 14
- c. Provide three if [ED Exam / Treatment Rooms] is 15
- d. Provide four if [ED Exam / Treatment Rooms] is between 16 and 26
- e. Provide five if [ED Exam / Treatment Rooms] is 27
- f. Provide six if [ED Exam / Treatment Rooms] is between 28 and 38
- g. Provide seven if [ED Exam / Treatment Rooms] is 39
- h. Provide eight if [ED Exam / Treatment Rooms] is between 40 and 48

Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**14. Mental Health Exam / Treatment Room, ED (CED25).....190 NSF (17.7 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is 5
- b. Provide two if [ED Exam / Treatment Rooms] is between 6 and 16
- c. Provide three if [ED Exam / Treatment Rooms] is 17
- d. Provide four if [ED Exam / Treatment Rooms] is between 18 and 28
- e. Provide five if [ED Exam / Treatment Rooms] is 29
- f. Provide six if [ED Exam / Treatment Rooms] is between 30 and 40
- g. Provide seven if [ED Exam / Treatment Rooms] is 41
- h. Provide eight if [ED Exam / Treatment Rooms] is between 42 and 48

The Mental Health E/T Room is a diversely designed swing room that can be utilized as a General E/T Room or one dedicated to patients who are triaged with a mental health condition. This E/T room is shown to be both right- and left-handed layout. This is done to provide a central nurse observation desk with direct observation into two adjacent Mental Health E/T rooms so that these mental health patients can be monitored 1:1 at all times. Two overhead coiling doors are designed to be open for access to a sink, supply cart, medical gases, wall-mounted exam light, etc. If needed these doors can be closed to convert this room quickly for patients that need to be more isolated or restrained to a stretcher. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**15. ED MH E/T Nurse Observation Alcove, Clncl Sprt (SC149) .....10 NSF (1.0 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is 5
- b. Provide two if [ED Exam / Treatment Rooms] is between 6 and 16
- c. Provide three if [ED Exam / Treatment Rooms] is 17
- d. Provide four if [ED Exam / Treatment Rooms] is between 18 and 28
- e. Provide five if [ED Exam / Treatment Rooms] is 29
- f. Provide six if [ED Exam / Treatment Rooms] is between 30 and 40
- g. Provide seven if [ED Exam / Treatment Rooms] is 41
- h. Provide eight if [ED Exam / Treatment Rooms] is between 42 and 48

To provide a location for clinical observation of patients.



**16. Mental Health Intervention Room, ED (CED26).....115 NSF (10.7 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12
- b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24
- c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36
- d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48

The mental health intervention room provides an environment suitable for unstable situations and rapid medical and psychiatric evaluation of patients in acute crisis and improves the capacity to safely control the patient; this room shall be located away from General Waiting. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**17. ED MH Intervention Room**

**Nurse Observation Alcove, Clncl Sprt (SC149).....10 NSF (1.0 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12
- b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24
- c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36
- d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48

This space allows for constant observation of patients in the Mental Health Intervention Room. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**18. ED MH Patient Toilet, Bldg Sprt (SB190) .....60 NSF (5.6 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 16
- b. Provide two if [ED Exam / Treatment Rooms] is between 17 and 28
- c. Provide three if [ED Exam / Treatment Rooms] is between 29 and 40
- d. Provide four if [ED Exam / Treatment Rooms] is between 41 and 48

Allocated NSF accommodates one accessible toilet @ 25 NSF, one wall-hung lavatory @ 12 NSF, ABA clearances, and circulation.

**19. ED MH Patient Shower, Bldg Sprt (SB151) .....70 NSF (6.6 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 16
- b. Provide two if [ED Exam / Treatment Rooms] is between 17 and 28
- c. Provide three if [ED Exam / Treatment Rooms] is between 29 and 40
- d. Provide four if [ED Exam / Treatment Rooms] is between 41 and 48

Allocated NSF accommodates one accessible shower @ 28 NSF, one accessible bench @ 16 NSF, ABA clearances, and circulation.

**20. Bariatric Patient Exam / Treatment Room, ED (CED23) .....190 NSF (17.7 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 7 and 18
- b. Provide two if [ED Exam / Treatment Rooms] is between 19 and 30
- c. Provide three if [ED Exam / Treatment Rooms] is between 31 and 42
- d. Provide four if [ED Exam / Treatment Rooms] is between 43 and 48

A Bariatric Patient Exam/Treatment Room has the same purpose, and design, as the General E/T Room, except it is to be larger, and be equipped with a heavier capacity



patient lift to accommodate bariatric patients. Bariatric treatment is the branch of medicine that deals with the causes, prevention, and treatment of obesity. A bariatric patient is one that is severely obese, overweight by 100 to 200 lbs., or having a bodyweight of greater than 300 lbs. A Body Mass Index (BMI) of greater than 40 is considered bariatric. This room shall be equipped with a bariatric stretcher and an overhead H-style patient lift system, capable of greater than 750-pound lifting capacity, to aid staff in moving patients on/off a stretcher. It shall have a 6'-0" diameter clear turning space within the room. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**21. ED Bariatric E/T PPE / Equipment Alcove, ED (CED41)..... 5 NSF (0.5 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 7 and 18
- b. Provide two if [ED Exam / Treatment Rooms] is between 19 and 30
- c. Provide three if [ED Exam / Treatment Rooms] is between 31 and 42
- d. Provide four if [ED Exam / Treatment Rooms] is between 43 and 48

This alcove is provided to dispense and don protective clothing prior to entering the Patient Area. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**22. ED Bariatric Patient Toilet, Bldg Sprt (SB163).....75 NSF (7.0 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 7 and 18
- b. Provide two if [ED Exam / Treatment Rooms] is between 19 and 30
- c. Provide three if [ED Exam / Treatment Rooms] is between 31 and 42
- d. Provide four if [ED Exam / Treatment Rooms] is between 43 and 48

Allocated NSF accommodates one bariatric toilet @ 25 NSF, one bariatric lavatory @ 21 NSF, ABA clearances, and circulation.

**23. GYN Exam / Treatment Room, ED (CED24) .....160 NSF (14.9 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 8 and 19
- b. Provide two if [ED Exam / Treatment Rooms] is between 20 and 31
- c. Provide three if [ED Exam / Treatment Rooms] is between 32 and 43
- d. Provide four if [ED Exam / Treatment Rooms] is between 44 and 48

The GYN Patient Exam / Treatment Room has the same design, as the General E/T Room, except it has a Toilet / Shower Room directly connected to it. This room shall be dedicated to Women's health services but may accommodate other patients, as necessary. Forensics / SANE examinations shall be performed in this room. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**24. ED GYN Patient Toilet / Shower, Bldg Sprt (SB171) .....80 NSF (7.5 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 8 and 19
- b. Provide two if [ED Exam / Treatment Rooms] is between 20 and 31
- c. Provide three if [ED Exam / Treatment Rooms] is between 32 and 43
- d. Provide four if [ED Exam / Treatment Rooms] is between 44 and 48



Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**25. ED GYN E/T PPE / Equipment Alcove, ED (CED41) ..... 5 NSF (0.5 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 8 and 19
- b. Provide two if [ED Exam / Treatment Rooms] is between 20 and 31
- c. Provide three if [ED Exam / Treatment Rooms] is between 32 and 43
- d. Provide four if [ED Exam / Treatment Rooms] is between 44 and 48

This alcove is provided to dispense and don protective clothing prior to entering the Patient Area. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**26. Protective Environment (PE)**

**Exam / Treatment Room, ED (CED36).....200 NSF (18.6 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 32
- b. Provide two if [ED Exam / Treatment Rooms] is between 33 and 48

A positive-pressure Protective Environment (PE) E/T Room is designed to protect the profoundly immunosuppressed patient, with prolonged neutropenia, from common environmental airborne infectious microbes. The primary difference between this PE room and other E/T rooms is the requirements for filtration and positive air pressure relative to adjoining spaces. The need for this type of room must be established by the VAMC as determined by an Infection Control Risk Assessment (ICRA). This room should be located distally from any All room. This room is required to have an Anteroom where all entry/exit of patients, staff, and equipment into the All room must pass through. Also, this room has a dedicated patient toilet accessed directly from the PE room.

**27. Protective Environment (PE) Anteroom, ED (CED37).....170 NSF (15.8 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 32
- b. Provide two if [ED Exam / Treatment Rooms] is between 33 and 48

**28. Protective Environment (PE) Patient Toilet, ED (CED38).....60 NSF (5.6 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 32
- b. Provide two if [ED Exam / Treatment Rooms] is between 33 and 48

Allocated NSF accommodates one accessible toilet @ 25 NSF, one accessible wall-hung lavatory @ 13 NSF, ABA clearances, and circulation.

**29. Eye / ENT Treatment Room, ED (CED16).....190 NSF (17.7 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48

The most common Eye treatments performed in the ED are eyelid repair, drainage of eyelid abscess, and removal of foreign bodies from eyelids. ENT treatments can include conditions such as epistaxis (nose bleeds), hearing loss, injuries to the ears, injuries to the head and neck area, foreign bodies in ears, nose, or throat, facial fractures, burns involving the nose, ears, or mouth, paralysis of the face, sinus disorders, dizziness, compromised upper airway, difficulty swallowing, and lumps in



the neck/throat, among others. For both eye and ENT cases, this room must be uniquely equipped to treat these types of emergency cases. This Treatment room may also be utilized as a General E/T Room at surge times or when it is not needed for these special cases. This room shall be uniquely equipped to treat multiple types of Eye / ENT emergency cases. This Treatment room may also be utilized as a General E/T room at surge times or when it is not needed for these special cases. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**30. ED Eye / ENT PPE / Equipment Alcove, ED (CED41) ..... 5 NSF (0.5 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

This alcove is provided to dispense and don protective clothing prior to entering the Patient Area. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**31. Orthopedic Treatment Room, ED (CED17) .....190 NSF (17.7 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

The most common types of injuries to be treated in the ED are related to dislocations and fractures of arms and legs. No open fractures would be treated in this treatment room, they would be taken to the Resuscitation Room or an Operating Room (OR) in the VAMC. This room is where casting shall be performed, either fiberglass or plaster types. If plaster type casting is anticipated, then a larger sink with a plaster trap must be provided. This room shall have direct access to the ED Imaging area and /or shall have PACS imaging within this treatment room. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**32. ED Ortho PPE / Equipment Alcove, ED (CED41)..... 5 NSF (0.5 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

This alcove is provided to dispense and don protective clothing prior to entering the Patient Area.

**33. Resuscitation Room, ED (CED31) .....350 NSF (32.6 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*

*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

This area is dedicated to the immediate care of patients in cardiac arrest, airway, breathing, and circulation compromise. The resuscitation area consists of one or more Resuscitation Rooms with all resuscitative equipment (monitors, defibrillators, airway, intubation & surgical equipment) available at an arm's distance. The Resuscitation Room is designed to accommodate a second stretcher for a surge event, with access to a vertical headwall and realignment of the primary stretcher to accommodate the secondary one. This room shall have a direct line of sight from the primary nurse care area and a secondary access directly from the Ambulance/EMS entrance for quicker access of critical patients. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.



**34. Simulation / Resuscitation Viewing Room, ED (CED49) .....180 NSF (16.8 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 48*

This room shall be utilized for staff training and simulation cases. It shall be located along one wall of the Resuscitation Room with observation windows and audible two-way communication between both rooms. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

**35. Resuscitation Storage Room, ED (CED32).....80 NSF (7.5 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

**36. Outbound / Inbound Staging / Holding Bay, ED (CED34) .....100 NSF (9.3 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24*  
*c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36*  
*d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48*

This room can also serve as the screening location for observation/non-ambulatory patients. The first Holding Bay will be provided with a ceiling lift system. Ceiling lifts are to be provided for additional Patient Holding / Transfer bays as determined by a site needs assessment. (Refer to PG-18-12 Section 2.6.11, Safe Patient Handling).

**37. ED Staff Toilet, Bldg Sprt (SB191).....60 NSF (5.6 NSM)**  
*a. Provide two if [ED Exam / Treatment Rooms] is between 1 and 12*  
*b. Provide four if [ED Exam / Treatment Rooms] is between 13 and 24*  
*c. Provide six if [ED Exam / Treatment Rooms] is between 25 and 36*  
*d. Provide eight if [ED Exam / Treatment Rooms] is between 37 and 48*

Allocated NSF accommodates one accessible toilet @ 25 NSF, one wall-hung lavatory @ 12 NSF, ABA clearances, and circulation.

**F. FA 6: STAFF WORK AREA**

Open staff work core for each ED module providing workspace and non-public staff circulation while visually connecting Exam / Treatment Rooms. This space provides for team huddles and planning, required staff computer access, patient arrival, and scheduling notifications, etc. Providers may have administrative space within the work core.

**1. ED MD/PA Provider Workstation, Stff Sprt (SS215).....50 NSF (4.7 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 8*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 9 and 20*  
*c. Provide three if [ED Exam / Treatment Rooms] is between 21 and 32*  
*d. Provide four if [ED Exam / Treatment Rooms] is between 33 and 44*  
*e. Provide five if [ED Exam / Treatment Rooms] is between 45 and 48*





- 2. ED MH Provider Workstation, Stff Sprt (SS215) .....50 NSF (4.7 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24*
  - c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36*
  - d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48*
- 3. ED Consultant Provider Workstation, Stff Sprt (SS215) .....50 NSF (4.7 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24*
  - c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36*
  - d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48*
- 4. ED Nurse Workstation, Stff Sprt (SS215) .....50 NSF (4.7 NSM)**
  - a. Provide two if [ED Exam / Treatment Rooms] is between 1 and 4*
  - b. Provide three if [ED Exam / Treatment Rooms] is between 5 and 8*
  - c. Provide four if [ED Exam / Treatment Rooms] is between 9 and 12*
  - d. Provide five if [ED Exam / Treatment Rooms] is between 13 and 16*
  - e. Provide six if [ED Exam / Treatment Rooms] is between 17 and 20*
  - f. Provide seven if [ED Exam / Treatment Rooms] is between 21 and 24*
  - g. Provide eight if [ED Exam / Treatment Rooms] is between 25 and 28*
  - h. Provide nine if [ED Exam / Treatment Rooms] is between 29 and 32*
  - i. Provide ten if [ED Exam / Treatment Rooms] is between 33 and 36*
  - j. Provide eleven if [ED Exam / Treatment Rooms] is between 37 and 40*
  - k. Provide twelve if [ED Exam / Treatment Rooms] is between 41 and 44*
  - l. Provide thirteen if [ED Exam / Treatment Rooms] is between 45 and 48*
- 5. ED Nurse Assistant Workstation, Stff Sprt (SS215) .....50 NSF (4.7 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 8*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 9 and 20*
  - c. Provide three if [ED Exam / Treatment Rooms] is between 21 and 28*
  - d. Provide four if [ED Exam / Treatment Rooms] is between 29 and 36*
  - e. Provide five if [ED Exam / Treatment Rooms] is between 37 and 44*
  - f. Provide six if [ED Exam / Treatment Rooms] is between 45 and 48*
- 6. ED Social Worker Workstation, Stff Sprt (SS215).....50 NSF (4.7 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 28*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 29 and 48*
- 7. ED Pharmacist Workstation, Stff Sprt (SS215) .....50 NSF (4.7 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 48*
- 8. ED Case Manager Workstation, Stff Sprt (SS215) .....50 NSF (4.7 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 20*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 21 and 36*
  - c. Provide three if [ED Exam / Treatment Rooms] is between 37 and 48*





- 9. ED Clerk Workstation, Stff Sprt (SS215) .....50 NSF (4.7 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 20  
b. Provide two if [ED Exam / Treatment Rooms] is between 21 and 36  
c. Provide three if [ED Exam / Treatment Rooms] is between 37 and 48
- 10. ED Trainee Workstation, Stff Sprt (SS215) .....50 NSF (4.7 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 6  
b. Provide two if [ED Exam / Treatment Rooms] is between 7 and 12  
c. Provide three if [ED Exam / Treatment Rooms] is between 13 and 18  
d. Provide four if [ED Exam / Treatment Rooms] is between 19 and 24  
e. Provide five if [ED Exam / Treatment Rooms] is between 25 and 30  
f. Provide six if [ED Exam / Treatment Rooms] is between 31 and 36  
g. Provide seven if [ED Exam / Treatment Rooms] is between 37 and 42  
h. Provide eight if [ED Exam / Treatment Rooms] is between 43 and 48
- 11. Provider Workroom, ED (CED44) .....120 NSF (11.2 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12  
b. Provide one at 140 NSF if [ED Exam / Treatment Rooms] is between 13 and 24  
c. Provide one at 160 NSF if [ED Exam / Treatment Rooms] is between 25 and 36  
d. Provide one at 180 NSF if [ED Exam / Treatment Rooms] is between 37 and 48
- A Provider Workroom is typically a glass-enclosed room with open desks, computers, and PACS system for use by all ED physicians on duty. It shall be located near the central nurse work area.
- 12. Tele-Health Room, ED (CED46) .....120 NSF (11.2 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48
- 13. ED Medication Room, Phrm Svc (SV583) .....100 NSF (9.3 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12  
b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24  
c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36  
d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48
- This room shall be under the visual control of the nursing staff. This room will contain a work counter, a hand-washing sink, a lockable refrigerator, and a locked storage cabinet for controlled drugs.
- 14. ED Fast Track Medication Station, Phrm Svc (SV582) .....40 NSF (3.8 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 2 and 48
- This station shall utilize an automated supply dispensing unit and have a hand-washing sink adjacent to it.
- 15. ED MH Medication Station, Phrm Svc (SV582) .....40 NSF (3.8 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48



- 16. PPE Storage Room, ED (CED47) .....100 NSF (9.3 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24  
b. Provide one at 160 NSF if [ED Exam / Treatment Rooms] is between 25 and 48

- 17. ED Nourishment Alcove, Clncl Sprt (SC296) .....40 NSF (3.8 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12  
b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24  
c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36  
d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48

This alcove shall be located near the central nurse work area. It shall contain a work counter, hand-washing sink, refrigerator, microwave, and storage cabinets. It also will typically have an ice-maker which must be a self-dispensing type.

- 18. ED Mobile Equipment Alcove, Clncl Sprt (SC090) .....20 NSF (1.9 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12  
b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24  
c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36  
d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48

Temporary holding of mobile equipment like specialized supply / treatment carts, clean linen carts, crash carts, etc.

- 19. ED Copy / Supply Room, Stff Sprt (SS272).....80 NSF (7.5 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24  
b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48

- 20. ED Pneumatic Tube Station, Lgstcs Svc (SB652) .....30 NSF (2.8 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12  
b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24  
c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36  
d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48

Allocated NSF provides space for up to three stations.

- 21. ED Wheelchair / Stretcher / Lift Parking, Bldg Sprt (SB258).....60 NSF (5.6 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12  
b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24  
c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36  
d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48

Locate near the module staff work area.

- 22. Mobile Equipment Storage Room, ED (CED48).....160 NSF (14.9 NSM)**  
a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24  
b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48



**G. FA 7: EMERGENCY IMAGING AREA**

- 1. ED Gowned Imaging Patient Waiting, Bldg Sprt (SB001) .....60 NSF (5.6 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

Gowned patient waiting. Allocated space accommodates one standard chair @ 9 NSF, one bariatric chair @ 14 NSF, one accessible space @ 10 NSF, and circulation; total three people.

- 2. ED Imaging Patient Dressing Room, Bldg Sprt (SB138) .....60 NSF (5.6 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

Allocated NSF accommodates one side chair w/arms, one tall cabinet, one bench, one linen hamper and circulation.

- 3. ED Imaging Patient Toilet, Bldg Sprt (SB201) .....60 NSF (5.6 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

Allocated NSF accommodates one accessible toilet @ 25 NSF, one accessible wall-hung lavatory @ 13 NSF, ABA clearances, and circulation.

- 4. ED Class 2 Radiology Imaging Room, Imgng Svcs (CI016) .....350 NSF (32.6 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

Refer to VA295 PG-18-12 Imaging Services Design Guide, Section 4: Room Templates.

- 5. ED Radiology Control Room, Imgng Svcs (CI017) .....75 NSF (7.0 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

Refer to VA295 PG-18-12 Imaging Services Design Guide, Section 4: Room Templates.

- 6. ED Radiology System Component Closet, Imgng Svcs (CI018) .....20 NSF (1.9 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

Refer to VA295 PG-18-12 Imaging Services Design Guide, Section 4: Room Templates.

- 7. ED Class 1 Ultrasound Scanning Room, Imgng Svcs (CI063) .....255 NSF (23.7 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 25 and 48*

Refer to VA295 PG-18-12 Imaging Services Design Guide, Section 4: Room Templates.

- 8. ED Ultrasound Patient Toilet, Bldg Sprt (SB201) .....60 NSF (5.6 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 25 and 48*



Allocated NSF accommodates one accessible toilet @ 25 NSF, one accessible wall-hung lavatory @ 13 NSF, ABA clearances, and circulation.

- 9. ED Ultrasound Storage Room, Imgng Svcs (CI069) .....80 NSF (7.5 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 25 and 48*
- 10. ED Ultrasound Transducer Room, Imgng Svcs (CI071) .....80 NSF (7.5 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 25 and 48*
- 11. ED Class 2 CT Scanning Room, Imgng Svcs (CI086).....600 NSF (55.8 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

Refer to VA295 PG-18-12 Imaging Services Design Guide, Section 4: Room Templates.

- 12. ED CT Control Room, Imgng Svcs (CI087) .....210 NSF (19.6 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

Refer to VA295 PG-18-12 Imaging Services Design Guide, Section 4: Room Templates.

- 13. ED CT System Component Room, Imgng Svcs (CI088).....105 NSF (9.8 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

Refer to VA295 PG-18-12 Imaging Services Design Guide, Section 4: Room Templates.

- 14. ED CT Patient Toilet, Bldg Sprt (SB201) .....60 NSF (5.6 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

Allocated NSF accommodates one accessible toilet @ 25 NSF, one accessible wall-hung lavatory @ 13 NSF, ABA clearances, and circulation.

- 15. ED CT Storage Room, Imgng Svcs (CI091) .....80 NSF (7.5 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*
  - b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

- 16. ED CT Automated Supply Dispenser Unit (ASDU) Alcove, Imgng Svcs (CI539) .....20 NSF (1.9 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

With the increasing usage of automated dispensing machines for more accurate inventory control, each imaging modality is assigned ASDUs based on typical storage needs for the modality and the clinical usage. It is the intention that each imaging room be provided with an ASDU alcove proximate to the staff core entrance to the control room / alcove. When multiple modalities share a common staff core, ASDU alcoves may be merged (instead of repeated individual alcoves), and individual ASDU



devices may be used for storage of materials for more than one imaging device or modality.

**17. ED Clean Utility Room, Lgstcs Svc (SB737) .....60 NSF (5.6 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

This area provides storage for sterile and non-sterile medical supplies.

**18. ED Soiled Utility Room, Lgstcs Svc (SB743) .....80 NSF (7.5 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

This room is used for disposal of waste material as well as temporary holding of items to be returned to SPS.

**19. ED Lead Apron Alcove, Imgng Svcs (CI521) .....15 NSF (1.4 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

**20. ED Imaging PPE Alcove, SPS (SC856) .....20 NSF (1.9 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

This alcove is provided to dispense and don protective clothing prior to entering the Patient Area.

**21. ED Imaging Staff Workstation, Stff Sprt (SS218) .....56 NSF (5.3 NSM)**

*a. Provide two if [ED Exam / Treatment Rooms] is between 1 and 48*

**22. ED Imaging Staff Toilet, Bldg Sprt (SB191) .....60 NSF (5.6 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

Allocated NSF accommodates one accessible toilet @ 25 NSF, one wall-hung lavatory @ 12 NSF, ABA clearances, and circulation.

**23. ED Imaging Patient Wheelchair / Stretcher / Lift Parking, Bldg Sprt (SB258) .....60 NSF (5.6 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

**24. ED Portable Imaging Equipment Alcove, Clncl Sprt (SC180).....20 NSF (1.9 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 36*

*b. Provide two if [ED Exam / Treatment Rooms] is between 37 and 48*

**H. FA 8: AMBULANCE / EMS AREA**

**1. EMS Decontamination Shower, ED (CED52).....120 NSF (11.2 NSM)**

*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

Decontamination is defined as the process of removing or neutralizing a hazard from the patient. The Shower room shall accommodate a patient on a stretcher. The exterior entrance into this area must be located a minimum of 30 feet away from the EMS/Ambulance entrance into the ED. Showers shall be designed with multiple showerheads and/or heads on flexible hoses to adequately wash all parts of the patient's body. Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.



- 2. EMS Decontamination Patient Changing Room, ED (CED53) .....120 NSF (11.2 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

Refer to Emergency Department PG-18-12 Design Guide Section 4 for room template.

- 3. EMS Decontamination Storage Room, ED (CED54) .....80 NSF (7.5 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

- 4. EMS Patient Drop-off, ED (CED51) ..... 0 NSF (0 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

The exterior space shall be a covered canopy or enclosed garage. It may be designed in either drive-thru or back-in unloading configurations.

- 5. EMS Drop-off Storage Room, ED (CED55) .....80 NSF (7.5 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*
  - b. *Provide one at 100 NSF if [ED Exam / Treatment Rooms] is between 13 and 24*
  - c. *Provide one at 120 NSF if [ED Exam / Treatment Rooms] is between 25 and 48*

- 6. ED EMS Vestibule, Bldg Sprt (SB291) .....120 NSF (11.2 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

- 7. ED EMS Wheelchair / Stretcher / Lift Parking, Bldg Sprt (SB258) .....80 NSF (7.5 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*
  - b. *Provide one at 100 NSF if [ED Exam / Treatment Rooms] is between 13 and 24*
  - a. *Provide one at 120 NSF if [ED Exam / Treatment Rooms] is between 25 and 48*

- 8. EMS Staging, ED (CED56) .....100 NSF (9.3 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*
  - b. *Provide one at 160 NSF if [ED Exam / Treatment Rooms] is between 13 and 24*
  - a. *Provide one at 200 NSF if [ED Exam / Treatment Rooms] is between 25 and 48*

The EMS Staging area is an open bay configured to temporarily hold a patient either arriving at or departing the ED. This staging area may be combined with other outbound holding bays for patients waiting to be transferred to another area within the VAMC. For incoming patients arriving by ambulance, that may need to be held here before being moved into the Resuscitation Room or an E/T room.

- 9. EMS Staff Workstation, ED (CED57) .....55 NSF (5.2 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*
  - b. *Provide two if [ED Exam / Treatment Rooms] is between 13 and 48*

- 10. EMS Supply Room, ED (CED58) .....60 NSF (5.6 NSM)**
  - a. *Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*
  - b. *Provide one at 80 NSF if [ED Exam / Treatment Rooms] is between 13 and 24*
  - a. *Provide one at 100 NSF if [ED Exam / Treatment Rooms] is between 25 and 48*





- 11. ED EMS Staff Toilet, Bldg Sprt (SB191) .....60 NSF (5.6 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

Allocated NSF accommodates one accessible toilet @ 25 NSF, one wall-hung lavatory @ 12 NSF, ABA clearances, and circulation.

- 12. EMS Ambulance Garage, ED (CED59) .....850 NSF (79.0 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 13 and 48*

**I. FA 9: SUPPORT AREA**

- 1. Medical Supplies Storage Room, ED (CED61) .....80 NSF (7.5 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 8*  
*b. Provide one at 100 NSF if [ED Exam / Treatment Rooms] is between 9 and 24*  
*c. Provide one at 120 NSF if [ED Exam / Treatment Rooms] is between 25 and 48*

- 2. ED Satellite Sterile Supply Room, Lgstcs Svc (SB737).....60 NSF (5.6 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 8*  
*b. Provide one at 80 NSF if [ED Exam / Treatment Rooms] is between 9 and 24*  
*c. Provide one at 100 NSF if [ED Exam / Treatment Rooms] is between 25 and 48*

- 3. ED Clean Linen Alcove, EMS (SC467) .....30 NSF (2.8 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24*  
*c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36*  
*d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48*

- 4. ED Soiled Utility Room, Lgstcs Svc (SB743) .....60 NSF (5.6 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 8*  
*b. Provide one at 80 NSF if [ED Exam / Treatment Rooms] is between 9 and 24*  
*c. Provide one at 100 NSF if [ED Exam / Treatment Rooms] is between 25 and 48*

This room is used for disposal of waste material as well as temporary holding of items to be returned to SPS.

- 5. ED Wheelchair / Stretcher / Lift Storage Room, Bldg Sprt (SB259) .....80 NSF (7.5 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 8*  
*b. Provide one at 100 NSF if [ED Exam / Treatment Rooms] is between 9 and 24*  
*c. Provide one at 120 NSF if [ED Exam / Treatment Rooms] is between 25 and 48*

- 6. Emergency Cart Alcove, ED (CED62) .....20 NSF (1.9 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24*  
*c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36*  
*d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48*





- 7. Clean Equipment Storage Room, ED (CED63) .....100 NSF (9.3 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 8
  - b. Provide one at 120 NSF if [ED Exam / Treatment Rooms] is between 9 and 24
  - c. Provide one at 140 NSF if [ED Exam / Treatment Rooms] is between 25 and 48

- 8. General Storage Room, ED (CED66) .....160 NSF (14.9 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 8
  - b. Provide one at 180 NSF if [ED Exam / Treatment Rooms] is between 9 and 24
  - c. Provide one at 200 NSF if [ED Exam / Treatment Rooms] is between 25 and 48

General ED storage space.

- 9. ED Full Gas Cylinder Storage Room, Lgstcs Svc (SB541) .....40 NSF (3.8 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24
  - b. Provide one at 60 NSF if [ED Exam / Treatment Rooms] is between 25 and 48

Full Oxygen tank storage space.

- 10. ED Empty Gas Cylinder Storage Room, Lgstcs Svc (SB551) .....40 NSF (3.8 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24
  - b. Provide one at 60 NSF if [ED Exam / Treatment Rooms] is between 25 and 48

Empty Oxygen tank storage space.

- 11. ED Trash / Recycling Holding, Bldg Sprt (SB280) .....60 NSF (5.6 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12
  - b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24
  - c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36
  - d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48

- 12. ED Housekeeping Aides Closet (HAC), Bldg Sprt (SB244) .....80 NSF (7.5 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24
  - b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48

**J. FA 10: STAFF AND ADMINISTRATIVE AREA**

- 1. ED Director Office, Stff Sprt (SS204) .....100 NSF (9.3 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 5 and 48

Allocated NSF per OMB M-12-12 Memorandum Freeze the Footprint (RTF) in Federal Facilities.

- 2. ED Assistant Director Office, Stff Sprt (SS204).....100 NSF (9.3 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 48

Allocated NSF per OMB M-12-12 Memorandum Freeze the Footprint (RTF) in Federal Facilities.

- 3. ED Administrative Officer (AO) Office, Stff Sprt (SS204) .....100 NSF (9.3 NSM)**
  - a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48



Allocated NSF per OMB M-12-12 Memorandum Freeze the Footprint (RTF) in Federal Facilities.

- 4. ED Nurse Manager Office, Staff Sprt (SS205) .....80 NSF (7.5 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48*

Allocated NSF per OMB M-12-12 Memorandum Freeze the Footprint (RTF) in Federal Facilities.

- 5. ED Assistant Nurse Manager Office, Staff Sprt (SS205) .....80 NSF (7.5 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

Allocated NSF per OMB M-12-12 Memorandum Freeze the Footprint (RTF) in Federal Facilities.

- 6. ED Social Worker Office, Staff Sprt (SS205).....80 NSF (7.5 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 5 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

Allocated NSF per OMB M-12-12 Memorandum Freeze the Footprint (RTF) in Federal Facilities.

- 7. ED Pharmacist Office, Staff Sprt (SS205).....80 NSF (7.5 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 5 and 48*

Allocated NSF per OMB M-12-12 Memorandum Freeze the Footprint (RTF) in Federal Facilities.

- 8. ED Program Support Assistant (PSA) Workstation, Staff Sprt (SS218).....56 NSF (5.3 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 5 and 48*

Allocated NSF per OMB M-12-12 Memorandum Freeze the Footprint (RTF) in Federal Facilities.

- 9. ED Administrative Support Workstation, Staff Sprt (SS218) .....56 NSF (5.3 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48*

Allocated NSF per OMB M-12-12 Memorandum Freeze the Footprint (RTF) in Federal Facilities.

- 10. ED Staff Breakroom, Staff Sprt (SS262).....160 NSF (14.9 NSM)**  
*a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12*  
*b. Provide two if [ED Exam / Treatment Rooms] is between 13 and 24*  
*c. Provide three if [ED Exam / Treatment Rooms] is between 25 and 36*  
*d. Provide four if [ED Exam / Treatment Rooms] is between 37 and 48*

The Emergency Department requires the use of a Staff Break Room within its department. Unlike other departments of the VAMC, the staff is on duty 24/7 so immediate access to a Break Room is essential quick breaks from their work routine.



This room would preferably have exterior windows for access to natural daylight. This room should be equipped with storage cabinets, a sink, refrigerator, icemaker, microwave oven, and coffee maker. It should be provided with tables that can remain individual or ganged together for larger groups to gather at.

- 11. ED Female Staff Locker Room, Stff Sprt (SS232) .....150 NSF (14.0 NSM)**
- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12
  - b. Provide one at 200 NSF if [ED Exam / Treatment Rooms] is between 13 and 24
  - c. Provide one at 250 NSF if [ED Exam / Treatment Rooms] is between 25 and 36
  - d. Provide one at 300 NSF if [ED Exam / Treatment Rooms] is between 37 and 48

Locate this space adjacent / near the ED Female Staff Shower.

- 12. ED Female Staff Toilet, Bldg Sprt (SB202) .....60 NSF (5.6 NSM)**
- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24
  - b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48

Allocated NSF accommodates one accessible toilet @ 25 NSF, one wall-hung lavatory @ 12 NSF, ABA clearances, and circulation.

- 13. ED Female Staff Shower, Bldg Sprt (SB173).....70 NSF (6.6 NSM)**
- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24
  - b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48

Allocated NSF accommodates one accessible shower @ 28 NSF, one accessible bench @ 16 NSF, ABA clearances, and circulation. Locate this space adjacent / near the ED Female Staff Locker.

- 14. ED Male Staff Locker Room, Stff Sprt (SS241) .....150 NSF (14.0 NSM)**
- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12
  - b. Provide one at 200 NSF if [ED Exam / Treatment Rooms] is between 13 and 24
  - c. Provide one at 250 NSF if [ED Exam / Treatment Rooms] is between 25 and 36
  - d. Provide one at 300 NSF if [ED Exam / Treatment Rooms] is between 37 and 48

Locate this space adjacent / near the ED Male Staff Shower.

- 15. ED Male Staff Toilet, Bldg Sprt (SB203) .....60 NSF (5.6 NSM)**
- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24
  - b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48

Allocated NSF accommodates one accessible toilet @ 25 NSF, one wall-hung lavatory @ 12 NSF, ABA clearances, and circulation.

- 16. ED Male Staff Shower, Bldg Sprt (SB184) .....70 NSF (6.6 NSM)**
- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 24
  - b. Provide two if [ED Exam / Treatment Rooms] is between 25 and 48

Allocated NSF accommodates one accessible shower @ 28 NSF, one accessible bench @ 16 NSF, ABA clearances, and circulation. Locate this space adjacent / near the ED Male Staff Shower.



**17. ED Staff Conference Room, Educ Svc (SS101).....240 NSF (22.3 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 12
- b. Provide one at 300 NSF if [ED Exam / Treatment Rooms] is between 13 and 24
- c. Provide one at 500 NSF if [ED Exam / Treatment Rooms] is between 25 and 36
- d. Provide one at 675 NSF if [ED Exam / Treatment Rooms] is between 37 and 48

This space is essential for training and staff meetings. This room would preferably have exterior windows for access to natural daylight. 240 NSF accommodates six chairs @ 7.5 NSF each, two tables at 10 NSF each, one credenza @ 8 NSF, and circulation; total six people; 300 NSF accommodates ten chairs @ 7.5 NSF each, four tables at 10 NSF each, one credenza @ 8 NSF, and circulation; total ten people; 500 NSF accommodates ten chairs @ 7.5 NSF each, four tables at 10 NSF each, one credenza @ 8 NSF, and circulation; total ten people; and 675 NSF accommodates twenty chairs @ 7.5 NSF each, sixteen tables at 10 NSF each, two credenzas @ 8 NSF each, and circulation; total twenty people.

**18. ED On-Call Bedroom, Stff Sprt (SS287).....90 NSF (8.4 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48

**19. ED On-Call Toilet / Shower, Bldg Sprt (SB196).....85 NSF (7.9 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 1 and 48

**K. FA 11: EDUCATION AREA**

**1. ED Staff Training / Classroom, Educ Svc (SS111).....545 NSF (50.7 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 24
- b. Provide one at 630 NSF if [ED Exam / Treatment Rooms] is between 25 and 36
- c. Provide one at 715 NSF if [ED Exam / Treatment Rooms] is between 37 and 48

Minimum allocated NSF accommodates eight chairs @ 7.5 NSF each, four tables at 10 NSF each, one credenza @ 8 NSF, one lectern @ 9 NSF and circulation; total eight people; 630 NSF accommodates sixteen chairs @ 7.5 NSF each, eight tables at 10 NSF each, one credenza @ 8 NSF, one lectern @ 9 NSF and circulation; total sixteen people; and 715 NSF accommodates twenty-four chairs @ 7.5 NSF each, twelve tables at 10 NSF each, two credenzas @ 8 NSF each, one lectern @ 9 NSF and circulation; total twenty-four people.

**2. ED Training Materials Storage Room, Educ Svc (SS186).....80 NSF (7.5 NSM)**

- a. Provide one if [ED Exam / Treatment Rooms] is between 9 and 24
- b. Provide one at 100 NSF if [ED Exam / Treatment Rooms] is between 25 and 36
- a. Provide one at 120 NSF if [ED Exam / Treatment Rooms] is between 37 and 48

**L. SEPS IMPORTER SHORTCUTS**

The following shortcuts are used in the Room Criteria Statements in the Emergency Department Functional Areas. These shortcuts are used during upload of this document into the Space and Equipment Planning System (SEPS) software during implementation of the space planning parameters contained herewith to allow for mathematical or



logical calculations to be performed. Input Data Statements (IDSs), Rooms or a partial calculation formula can have a shortcut.

1. *Annual Emergency Department (ED) Clinic Stops (Stop Code 130) projected:* [How many Emergency Department (ED) annual Clinic Stops (Stop Code 130) are projected for this facility? (W)]
2. *ED Exam / Treatment Rooms:* [Number of ED Exam / Treatment Rooms, Clncl Sprt (SC107)]

## 6. PLANNING AND DESIGN CONSIDERATIONS

### A. GENERAL

1. Refer to Department of Veterans Affairs (VA) Office of Construction Facilities Management (CFM) Handbooks, Standards, Standard Details, and Design Guides for technical criteria available at the VA Technical Information Library (TIL).
2. Refer to Emergency Department PG-18-12 Design Guide Section 2: Narrative; Sub-Section 2.2: Emergency Department Operations & 2.5: Planning Emergency Department Facilities.
3. Refer to Section 8: Functional Diagrams in this document for illustration of the following Planning and Design Considerations.
4. Provide proper visual control of patient areas by ED staff, including circulation spaces, to assist in the monitoring and caring for the elderly patient.
5. Provide 100 percent accessibility to all patient areas and circulation spaces indoors as well as at access points to facility.

### B. RECEPTION / PUBLIC AREA

1. The Security Station shall be positioned to allow “back door” exit to access a corridor to the main ED without traveling through the General Waiting area. There shall be a clear and direct path from the entry/metal detectors to the First Look reception area (without walking through General Waiting).
2. Public areas are developed for safe and secure environment for Veterans, staff, families, and visitors that arrive at the ED with patients. The emphasis is on developing a safe and secure environment for the public. Patients are to be expedited to triage or a care area and moved ahead in the process. It is the intent that limited patients be placed back in the public area and, instead, move forward to care areas or internal waiting areas as part of expediting their access to the provider/physician.
3. The General Waiting shall have direct access to outside windows for daylight. It must be visually observable from the Reception desk and First Look Station. Provision shall be provided for public toilets, drinking water, and public communication services.



C. RECEPTION / PUBLIC / PATIENT AREA

1. The rooms/spaces of the ED are organized in ten different functional areas. These areas begin to define the natural organization of the department. Then depending on the size of the ED, will change the layout and modularity of the department. The Reception/Public Area, Security/Police Area, and Patient Assessment Area all work together as the public facing part of the ED.
2. The Patient Assessment Area is the portal to the rest of the ED and connects the patient to the clinical and staff areas. The clinical areas shall be designed in a modular approach with the basic planning module being twelve (12) E/T Rooms physically organized in groups of four (4) E/T rooms to maximize the staffing ratio of 1 nurse to 4 patients.
3. Decontamination showers shall be designed with multiple showerheads and/or heads on flexible hoses to adequately wash all parts of the patient's body. The shower room must accommodate a patient on a stretcher also. The patient then is moved into a Decontamination Patient Changing Room to dry off and put on a hospital-provided gown before being moved to an E/T Room.
4. Placement of the large Bariatric Patient E/T Room(s) shall be considered near the Resuscitation Room allowing it to be utilized as overflow resuscitation. If considered, a Simulation/Resuscitation Viewing Room, for staff training, shall be located adjacent to one side of the Resuscitation Room, for direct visual observation and training.
5. A Results Pending Waiting Room needs to be in a highly visible area where clinical personnel can maintain visual control of those utilizing the space. Patients may wait here for final discharge instructions. This space shall be near a consultation room so results and discharge instructions can be delivered in a confidential environment.
6. A Triage Room is where a nurse will assess patients' severity of injury or illness within a short time after their arrival, assign priorities, and transfer each patient to the appropriate place in the ED for treatment. The Triage Room shall be designed with direct access and visual observation of the ED Waiting Room. If possible, the Security Station shall have visibility through the glass-front triage room to observe first interaction between nurse and patient.
7. The Triage Room is also designed to have flow-through patient movement, so they enter directly from the Waiting Room and exit directly into the clinical area of the ED. Generally, the patient will be seated in a reclining type of exam chair.
8. The General E/T Room is used for patient consultation, examination, and various noninvasive treatments and procedures. There is an expectation of physical contact, or "laying on of hands," between the caregiver and patient. This room is the basic building block of the clinical treatment rooms within the ED.
9. A negative-pressure Airborne Infection Isolation (All) E/T Room is designed to isolate a patient who is suspected of, or has been diagnosed with, an airborne infectious





disease. This room is required to have an anteroom where all entry/exit of patients, staff, and equipment into the All room must pass through. Also, this room has a dedicated toilet that can only be accessed from within the All room.

10. A positive-pressure Protective Environment (PE) E/T Room is designed to protect the immunosuppressed patient. This room shall be located distally from any Airborne Infection Isolation E/T Room.
11. The Mental Health Intervention Room shall be located away from the waiting area and have a Nurse Workstation adjacent. While it is not a seclusion/restraint room, it shall meet the standards of the Mental Health Intervention Room for construction, equipment, and furnishings, outlined in the current Mental Health Environment of Care Checklist.
12. The Mental Health E/T Room is a diversely designed swing room that can be utilized as a General E/T Room or one dedicated to patients who are triaged with a mental health condition. This E/T room is shown to be both right- and left-handed layout. This is done to provide a central nurse observation desk, for two people, with direct observation into two adjacent Mental Health E/T Rooms.
13. Most EDs are being designed with internal imaging services. It is still important to have an understanding between the ED and imaging about the use, or back-up use, of potentially shared diagnostic rooms.
14. The Emergency Imaging Area may be part of the main VAMC Imaging Services if it is immediately adjacent to the Emergency Department and in a smaller ED. In a medium to large ED, Imaging Areas will be dedicated to the Emergency Department. Gowned Imaging Patient Waiting shall be on the edge of the imaging area closest to the initial assessment area and fast-track care area. The patient dressing area shall be adjacent to the Gowned Imaging Patient Waiting area and have access to the ED Imaging Toilet Room.

#### D. AMBULANCE / EMS AREA

1. Ambulance / EMS entry shall have a covered canopy or enclosed garage depending on local facility requirements and geographic location. Drop-off canopies may be designed in either drive-thru or back-in unloading configurations; garages shall be designed in drive-thru configurations.
2. The Emergency Medical Services (EMS) Outbound / Inbound Staging / Holding Room is an open bay configured to temporarily hold a patient either arriving at or departing the ED. This staging area may be combined with outbound patient holding room / bay for patients waiting to be transferred to another area within the VAMC. For incoming patients arriving by ambulance, that may need to be held here before being moved into the Resuscitation Room or an E/T Room.

#### E. STAFF WORK AREA

1. Staff/providers need to be in a position to visually monitor and control the clinical areas in the best interest of clinical safety and overall security.





2. Open work/charting area shall be available with visual control of triage rooms and access paths back into ED. In smaller EDs the work/charting area may be the central ED staff workstation.
3. Consideration shall be given to how a main ED staff work area can be positioned to allow for visual control of the EMS Vestibule. EMS entry point shall have direct access to wheelchair and stretcher storage, EMS Staff Workstation, EMS Supply Room, and EMS Staff Toilet. EMS Staff Workstation shall be positioned to maintain a view of ambulances. EMS crews may have exterior access to EMS Drop-off Storage Room.
4. Provide an open staff work core for each ED module (about 12 E/T rooms) providing workspace and non-public staff circulation while visually connecting exam and treatment rooms. This space provides for team huddles and planning, required staff computer access, patient arrival, and scheduling notifications, etc.
5. A Provider Workroom is typically a glass-enclosed room and needs to be located near the central nurse work area. The design may include one of these workrooms per 12 E/T room module, or they could be combined at an intersection between two modules.
6. A Medication Room or Alcove will typically be a room which shall be under the visual control of the nursing staff. Where one or more automated supply dispensing units are present, the room needs to be designed with space to prepare medications.
7. Staff work areas in a care module shall not be isolated from other care areas and shall have visibility to adjacent staff work areas in other care modules. Isolation rooms and internal ED waiting areas shall be located on the side of the care module closest to the upfront assessment area or just off the main circulation corridor to allow for immediate access within a care module.

#### F. LAYOUT

1. Provide a direct access from First Look Station and Triage Room(s) to EMS Decontamination facilities.
2. Triage rooms shall “flow through” with accessibility from General Waiting with separate “back door” for flow to main ED Patient Care areas.
3. First Look shall have an escape path back into the ED in the event of dangerous situation. Direct access to PPE, patient toilet/shower and support spaces. In smaller EDs these components may be shared with main ED care area(s).
4. Fast-Track shall be an area that can flex with the main emergency department care area. Fast-Track shall be considered in an area close to the assessment area allowing rapid turnaround for non-urgent patients. An internal ED patient accessible waiting area shall be near fast track to allow non-urgent patients to await testing results. This space shall be visible to staff work areas to maintain visual control of patients/families



5. Locate Eye/ENT and Orthopedic Treatment Room(s) as well as the GYN and the Airborne Infection Isolation (AII) E/T Room(s) Orthopedic Treatment Rooms near the Fast Track E/T Room(s).
6. Orthopedic Treatment Room, in the main ED, shall be near the imaging area.
7. If the number of the Mental Health E/T Rooms is large, consider creating a dedicated mental health care zone, which shall remain adjacent with the main ED Patient Area. This separate-but-adjacent care area would allow staff to flex in and out of the mental health area in support of patient care.
8. Direct access from the Reception / Public Area to the Mental Health (MH) Sally Port is a priority. The MH Sally port shall have direct access to a MH Private Search Room. Patient Belongings Storage shall be near or adjacent to the Sally port and MH Private Search Room. Toilet/shower shall be in the proximity of ED Mental Health Intervention Room or within a secured ED mental health unit.
9. A key priority is to maintain a visual connection from the MH work area to adjacent ED staff work areas (nurse stations) in an adjacent care area. The intent is that no staff are isolated in the MH area without visual connection to other team members. There shall be no “dead-end” corridors. Escape paths for staff need to be considered if the area will be “locked-down”. Consider escape paths from the main workarea to outside the unit. Support areas (clean, soiled, etc.) shall be secured access and must include escape paths out the backside of support spaces, so no staff is trapped in the support areas.
10. The Resuscitation Room(s) shall have direct accessibility from the EMS/ambulance Entry. Central staff work areas shall have direct visual control of the Resuscitation Room(s).
11. Resuscitation Storage Room shall be adjacent to the Resuscitation Room. Consideration shall be given to access this storage room from inside the Resuscitation Room and from the main corridor allowing staff to access this storage room even while resuscitation is taking place.
12. Design shall accommodate patient privacy and confidentiality in all areas, and in reception and patient care areas. This includes visual and auditory considerations.
13. Corridors shall be designed to a minimum of 8 feet clear width to accommodate passage of equipment or beds and two stretchers and/or wheelchairs.
14. The main circulation corridor concept provides a circulation path that allows patients to come from the assessment area and circulate to any care module without traversing through other care modules. The main corridor also allows patients to come from any care module, access imaging, and return to their care module without traversing through other care modules.



**7. FUNCTIONAL RELATIONSHIPS**

**Emergency Department (ED) to Patient Care / Patient Care Support Services**

SERVICES	FUNCTIONAL RELATIONSHIP
CLNCL: Pulm Svc: Pulmonary / Respiratory Care	1
CLNCL: Pulm Svc: Bronchoscopy	1
IP: ICU PCUs	1
CLNCL: Imgng Svcs: Radiography	2
CLNCL: Imgng Svcs: Ultrasound	2
CLNCL: Path Svc: Autopsy	2
CLNCL: Surg Svc: Inpatient Surgery	2
CLNCL: Surg Svc: Ambulatory Surgery	2
IP: MH PCUs	2
BLDG SPRT: Police & Security	2
VET SPRT: PHRM Svc: Outpatient	2
CLNCL: Cardiology	3
CLNCL: Dialysis	3
CLNCL: EEG / EMG	3
CLNCL: Eye Cinc: Ophthalmology	3
CLNCL: Eye Cinc: Optometry	3
CLNCL: GI-Endoscopy	3
CLNCL: Path Svc: Clinical Pathology	3
CLNCL: Wm Vet Svc: Model 2	3
CLNCL: Wm Vet Svc: Model 3	3
IP: MS PCUs	3
BLDG SPRT: ENG: Biomedical Repair	3
CLNCL: Imgng Svcs: Breast Imaging	3
BLDG SPRT: Lobby	3
CLNCL SPRT: OIT: Server	3
CLNCL SPRT: OIT: Telecommunications	3
STFF SPRT: HAS: Health Information Management Section (HIMS)	3

Functional Relationship Key:

- 1 High
- 2 Moderate
- 3 Minimal



### 8. FUNCTIONAL DIAGRAMS

Diagram 1: Twelve Exam / Treatment (E/T) Rooms

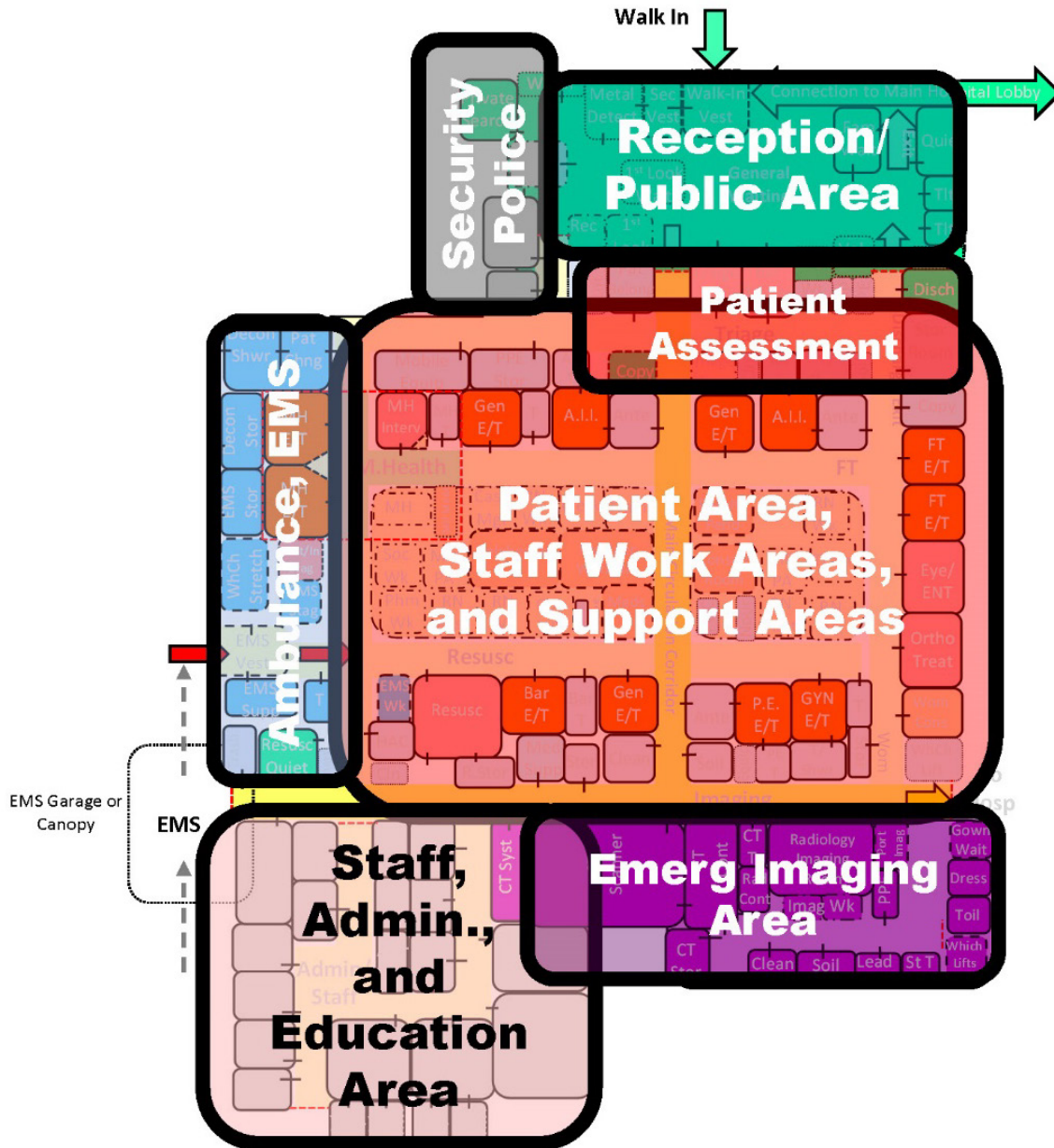


Diagram 2: Twenty-four Exam / Treatment (E/T) Rooms

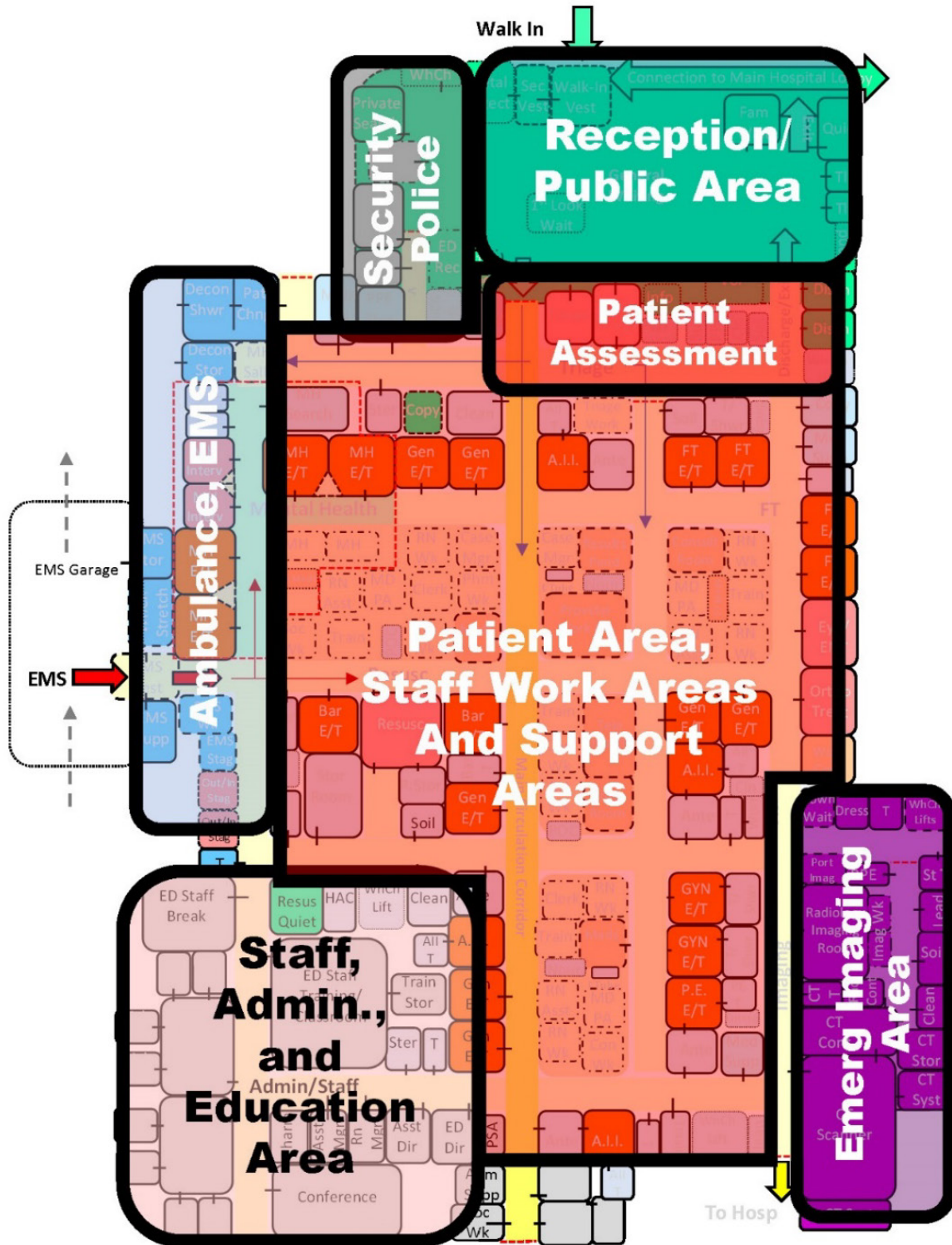




Diagram 3: Thirty-two Exam / Treatment (E/T) Rooms

