

Office Module = 1% of total living unit module area
 Bulk Storage Module = 3.5% of total living unit module area
 Transition Module = whatever is required
 $1\% \times 44,520 = 445 \text{ sq. ft. Office Module}$
 $3.5\% \times 44,520 = 1,558 \text{ sq. ft. Bulk Storage Module}$
 (15' long + 5' for corridor width + 2'-4" for wall thickness) X (5' wide + 2'-4" for wall thickness) X 3 floors = 491 sq. ft. Transition Module
 Add these numbers together to obtain the total area required for the desired optional support modules.
TOTAL (optional modules) = 2,495 sq. ft.

FINAL TOTAL GROSS BUILDING AREA
 To determine the final total gross building area, add the area for the living unit modules, the mandatory support modules, and any optional support modules together.
TOTAL = Living unit modules + Mandatory modules + Optional modules
 $44,520 \text{ s.f. living unit modules} + 10,105 \text{ s.f. mandatory modules} + 2,495 \text{ s.f. optional modules} =$
57,120 SQUARE FEET TOTAL GROSS BUILDING AREA

DIMENSIONS

- The length of the residential wings varies depending on the number of living unit modules provided. Below is a chart that gives the approximate lengths depending on the number and type of module. These dimensions include an allowance for an exterior wall on one end, and an interior wall on the other.

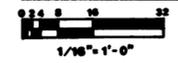
# of modules	Short Term	Long Term
1	58'-4"	48'-4"
2	59'-8"	91'-8"
3	89'-0"	137'-0"
4	118'-4"	182'-4" (A)
5	147'-8"	227'-8"
6	177'-0" (A)	273'-0" (B)
7	206'-4"	-----
8	235'-8"	-----
9	265'-0"	-----
10	294'-4" (B)	-----

(A) Maximum corridor length in buildings without fire suppression or detection systems. (NFPA-101)
 (B) Maximum corridor length in buildings with an approved automatic sprinkler system in the exit access and tributary areas, or throughout, and separated by 1 hour construction in buildings of three or fewer floors, or by 2 hour construction in buildings over three floors. (NFPA-101)

- The width of the residential wings will vary between 49'-0" and 58'-0" depending on the corridor width used. Exterior wall construction will not affect building width.
- Dimensions of the support modules vary significantly and are dependent on the layout of this area in the final design.

ILLUSTRATIVE SECOND AND THIRD FLOOR PLAN -

"I-SCHEME"



Symbol	Description	Date	Approved
* THINK VALUE ENGINEERING - IT SAVES MONEY *			
U. S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS TULSA, OKLAHOMA			
Designed by: Jay Clark Drawn by: Jay Clark Checked by: T. H. Verdel		FACILITIES STANDARDIZATION PROGRAM VISITING OFFICER QUARTERS ILLUSTRATIVE SECOND AND THIRD FLOOR PLAN - "I-SCHEME"	
Submitted by: T. H. Verdel	Scale: AS SHOWN	Sheet reference number: V-13	JUL 88 Sheet 13 of 20
Chief, Arch. Sec.	Date: NOVEMBER, 1988	Reg. codes: DEF 724-15-01	