

1-24-79

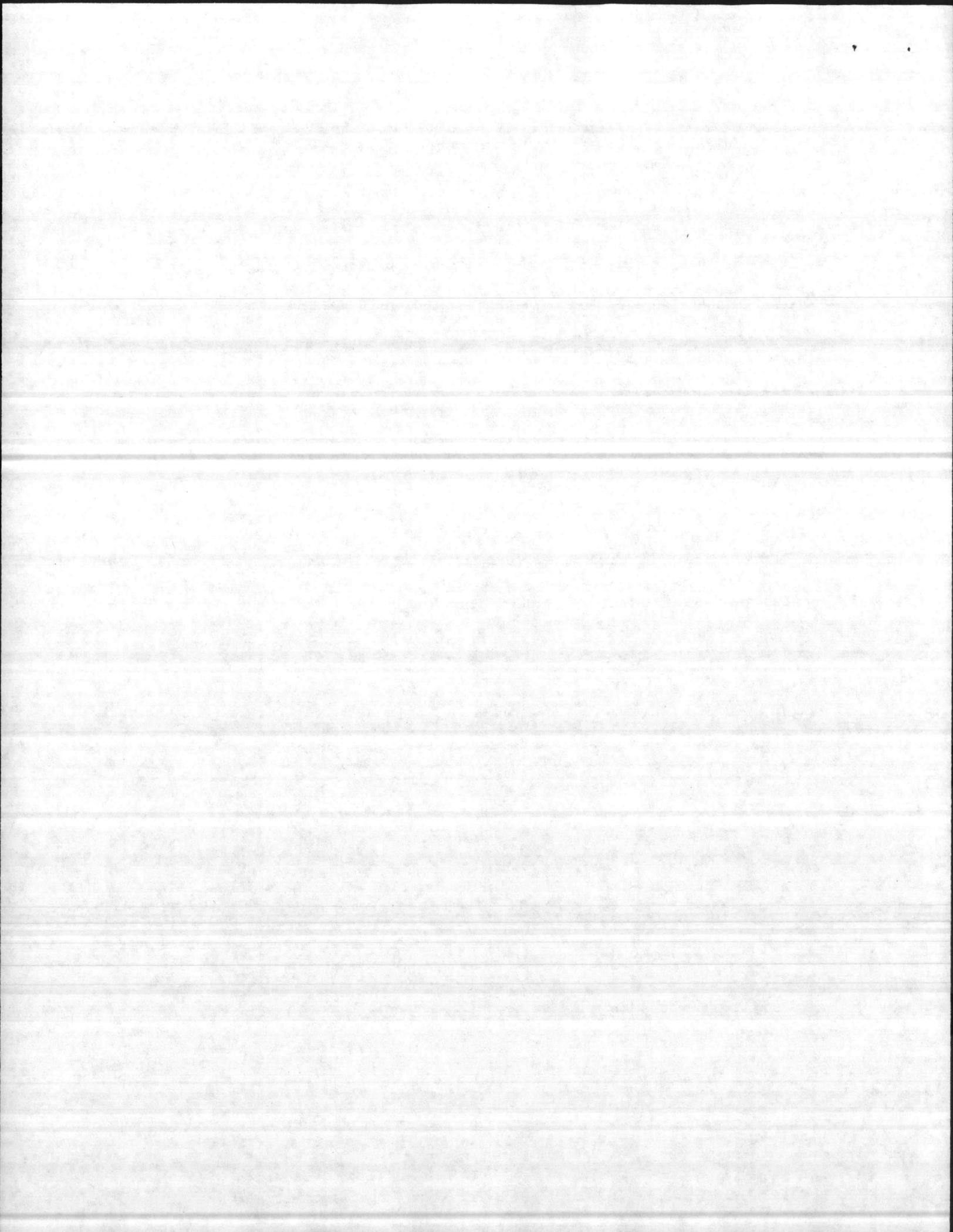
MCAS (H), NEW RIVER

PROPOSED HELICOPTER SQUADRON REORGANIZATION PROJECTS

The following Military Construction Projects are proposed and being developed by this activity for consideration by Headquarters Marine Corps in conjunction with the Helicopter Squadron Reorganization.

In figuring the space requirements for the following proposed projects, this activity utilized the total NAVFAC P-80 allowance.

Many approved Basic Facility Item Determination Sheets for this activity will have to be adjusted in accordance with the Helicopter Squadron Reorganization. The total increase in military personnel is projected to be 570, making a total military base loading figure of 5,666 upon reorganization.



MCAS(H), NEW RIVER
BASE LOADING IN CONJUNCTION WITH PROPOSED
HELICOPTER SQUADRON REORGANIZATION

The total projected base loading figure for this activity for FY 80-84 is 5,814.

The projected military base loading figure for this activity for FY 80-84 is 5,666.

The approved Basic Facilities Requirements Lists (BFRLs) for this activity (dated 26 March 1976) were based on a military base loading figure of 5,087.

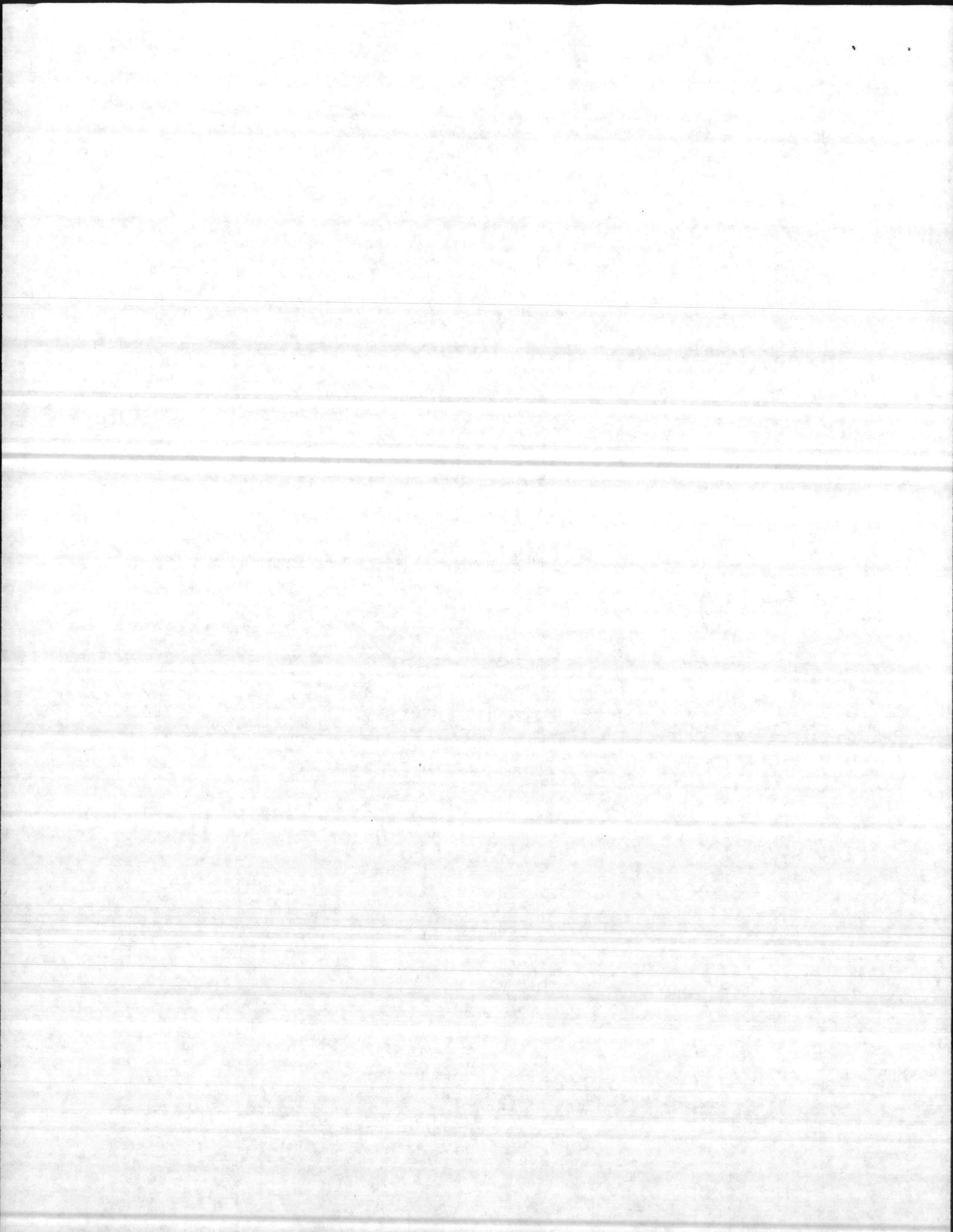
The increase of projected military base loading over the military base loading figure used for development of the approved BFRL is 579.

Base Loading in Conjunction with the proposed Helicopter Squadron Reorganization as it pertains to Marine Aircraft Group 26 is as follows:

| | <u>EXISTING</u> <u>BASE LOADING</u> | | <u>PROGRAMMED (FY 80-84)</u> <u>BASE LOADING (FY 80-84)</u> | |
|----------------------------|--|------------|--|------------|
| | <u>ENL</u> | <u>OFF</u> | <u>ENL</u> | <u>OFF</u> |
| Aircraft Squadrons (Total) | 1,555 | 324 | 1,999 | 394 |
| H&MS-26 | 260 | 31 | 291 | 36 |
| MABS-26 | <u>192</u> | <u>14</u> | <u>213</u> | <u>13</u> |
| TOTAL | 2,007 | 369 | 2,503 | 443 |

Total increase in Military Personnel in MAG-26 upon Reorganization:

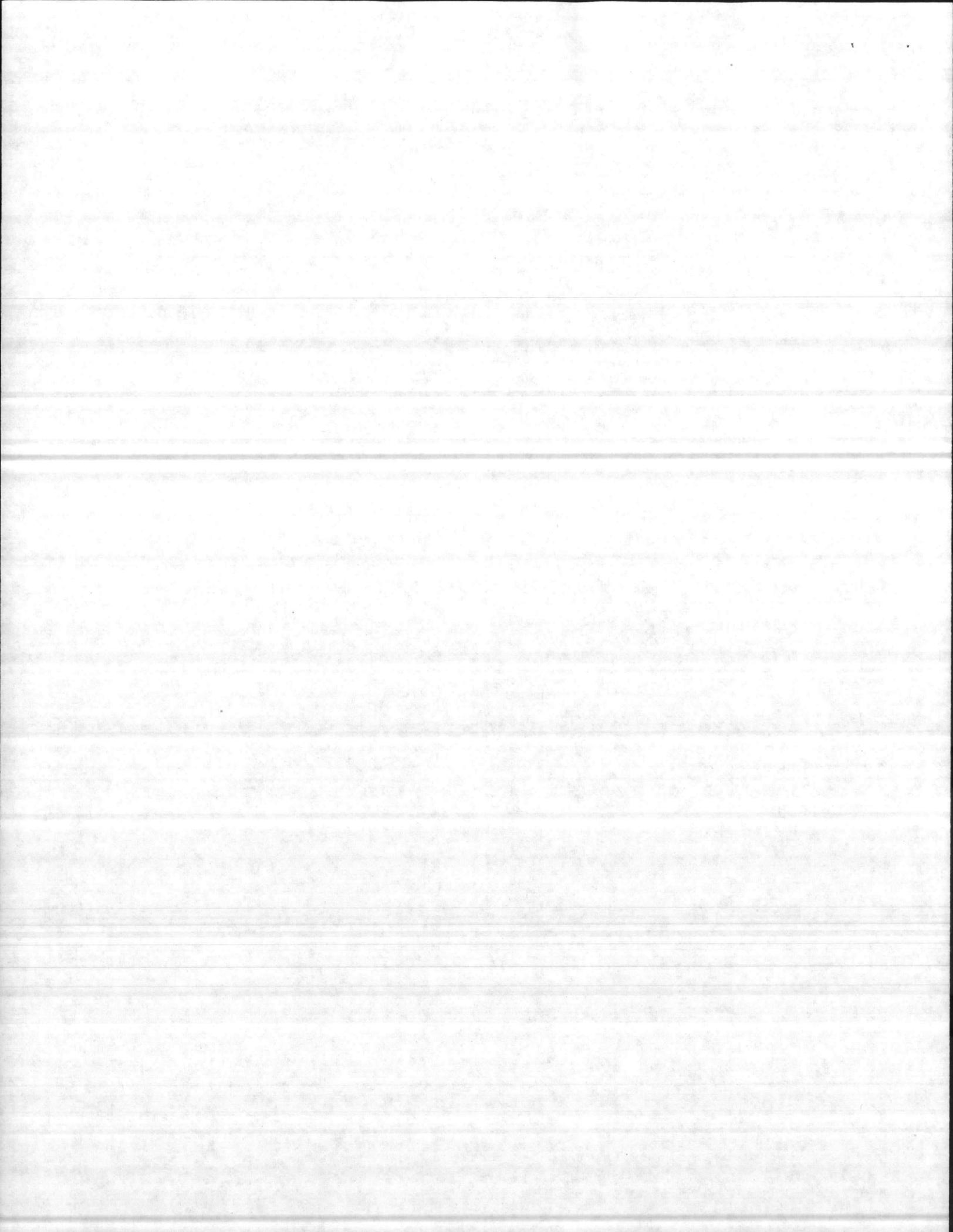
| <u>ENL</u> | <u>OFF</u> | <u>TOTAL</u> |
|------------|------------|--------------|
| 496 | 74 | 570. |



UTILIZATION OF EXISTING HANGAR SPACE ABOARD THIS ACTIVITY:

MARINE AIRCRAFT GROUP 26

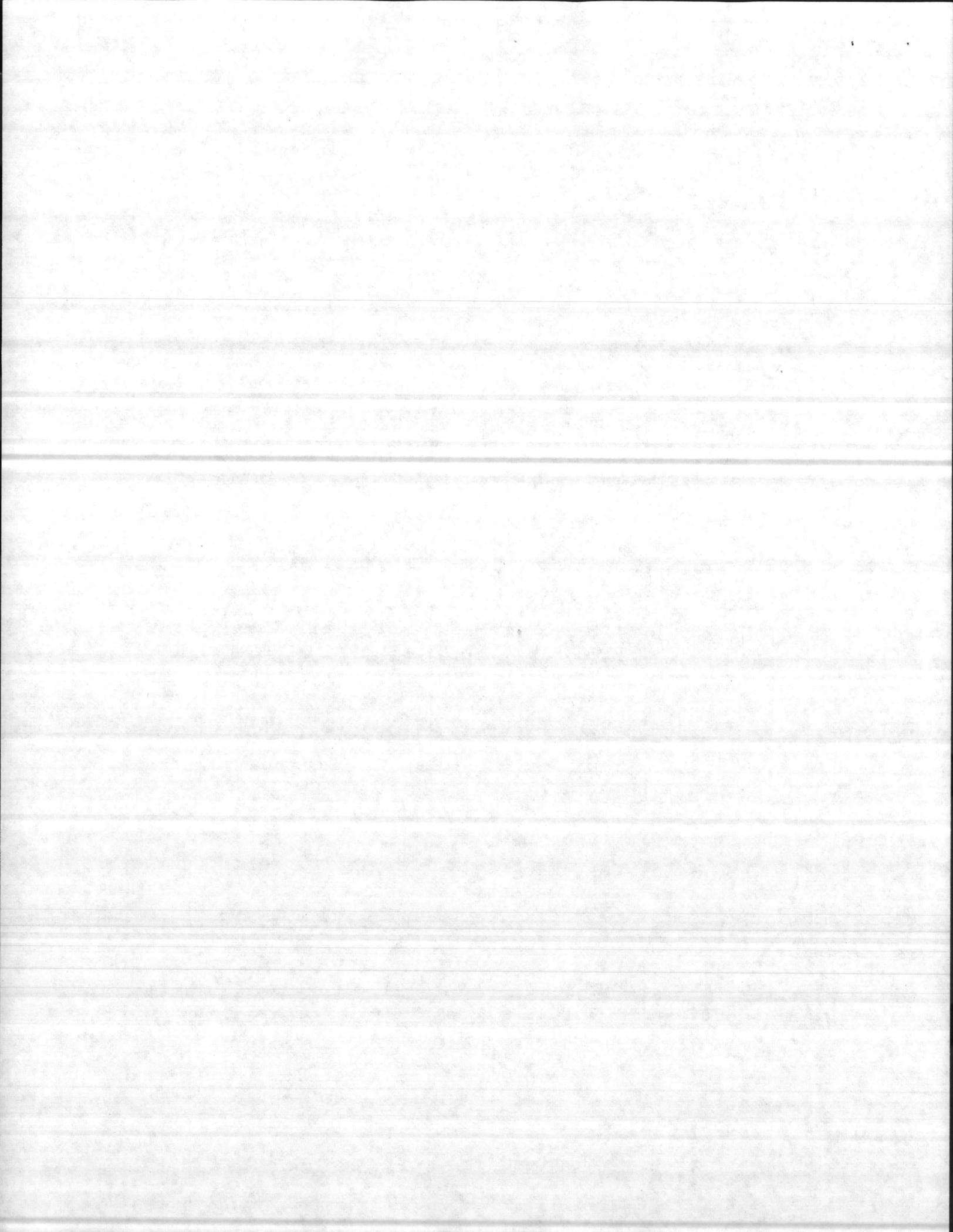
| | | | |
|--------|----------------------------------|------------|-------------|
| AS-504 | 211-05, OH Space | 36,784 SF | Substandard |
| | 211-06, 01 Space | 33,305 SF | Substandard |
| | 211-07, 02 Space | 24,433 SF | Substandard |
| | 610-71, Group Hdqtrs | 14,311 SF | Substandard |
| | 211-34, Parachute/Survival Equip | 2,928 SF | Substandard |
| | 211-36, Airframes Shop | 2,679 SF | Substandard |
| | 141-70, Control Tower | 752 SF | Substandard |
| | TOTAL | 115,192 SF | |
| AS-515 | 211-05, OH Space | 51,680 SF | Adequate |
| | 211-06, 01 Space | 20,932 SF | Adequate |
| | 211-07, 02 Space | 20,932 SF | Adequate |
| | TOTAL | 93,544 SF | |
| AS-518 | 211-05, OH Space | 25,920 SF | Adequate |
| | 211-07, 02 Space | 10,935 SF | Adequate |
| | 211-35, Eng Maint Shop | 18,958 SF | Adequate |
| | 211-77, A/C Spares Strg | 13,458 SF | Adequate |
| | 211-36, Airframes Shop | 9,873 SF | Adequate |
| | 143-45, Armory | 1,370 SF | Substandard |
| | TOTAL | 80,514 SF | |



UTILIZATION OF EXISTING HANGAR SPACE ABOARD THIS ACTIVITY: (continued)

MARINE AIRCRAFT GROUP 29

| | | | |
|---------|---------------------------------|-----------------|----------|
| AS-4100 | 211-05, OH Space | 19,500 SF | Adequate |
| | 211-06, 01 Space | 11,335 SF | Adequate |
| | 211-07, 02 Space | <u>8,730 SF</u> | Adequate |
| | TOTAL | 39,565 SF | |
| AS-4106 | 211-05, OH Space | 14,580 SF | Adequate |
| | 211-07, 02 Space | 5,332 SF | Adequate |
| | 211-77, A/C Spares Strg | 13,708 SF | Adequate |
| | 211-35, Eng Maint Shop | 9,029 SF | Adequate |
| | 211-36, Airframes Shop | 8,711 SF | Adequate |
| | 211-37, Avionics Shop | 7,200 SF | Adequate |
| | 211-34, Parachute/Survival Shop | 2,230 SF | Adequate |
| | 218-60, A/C GSE Shop | 2,048 SF | Adequate |
| | 211-38, Aviation Armament Shop | <u>1,152 SF</u> | Adequate |
| | TOTAL | 63,990 SF | |
| AS-4108 | 211-05, OH Space | 59,800 SF | Adequate |
| | 211-06, 01 Space | 20,103 SF | Adequate |
| | 211-07, 02 Space | 16,368 SF | Adequate |
| | 211-37, Avionics Shop | 660 SF | Adequate |
| | 218-60, A/C GSE Shop | <u>300 SF</u> | Adequate |
| | TOTAL | 97,231 SF | |



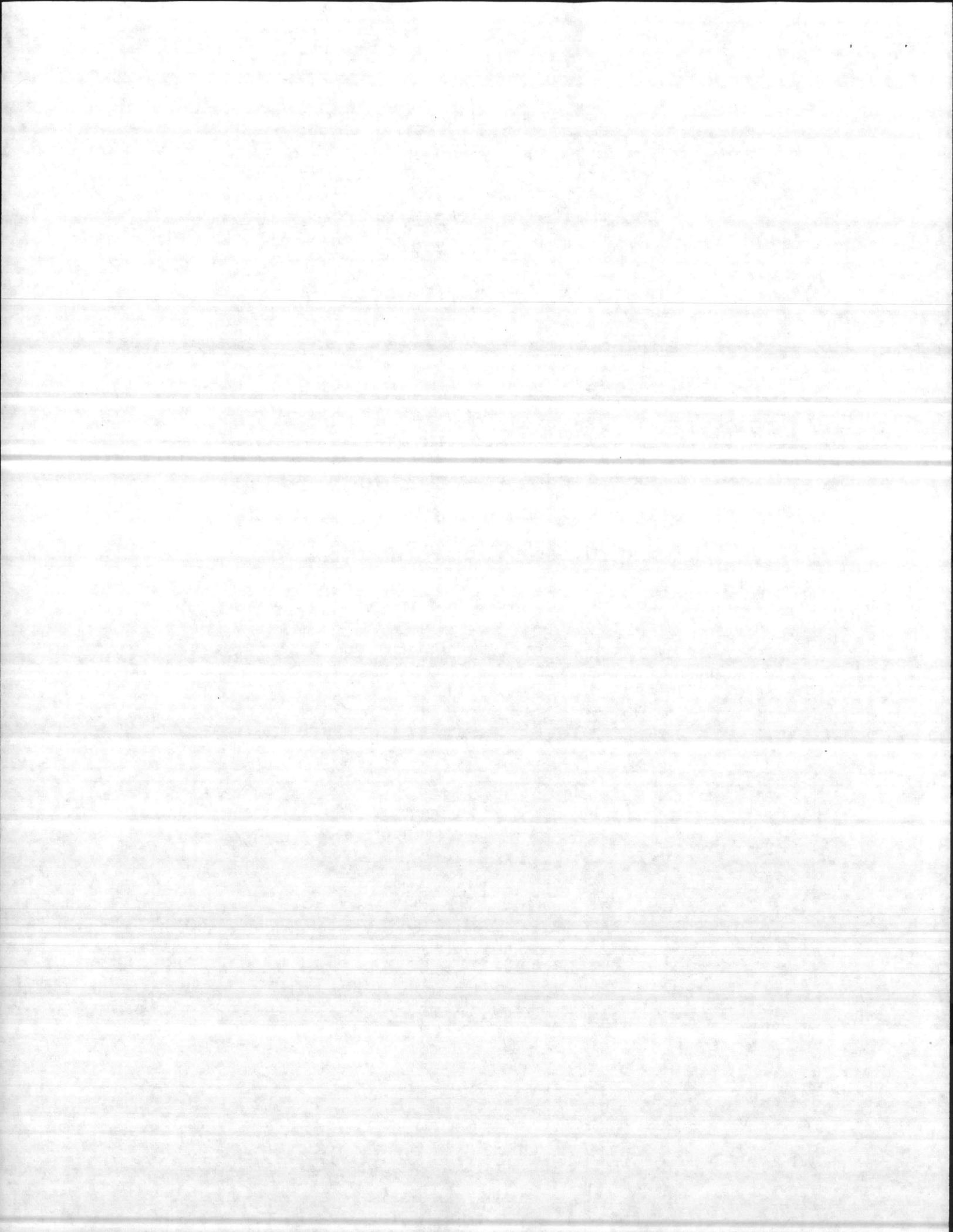
MCAS (H), NEW RIVER

PROPOSED HELICOPTER SQUADRON REORGANIZATION PROJECTS

The following Military Construction Projects are proposed and being developed by this activity for consideration by Headquarters Marine Corps in conjunction with the Helicopter Squadron Reorganization.

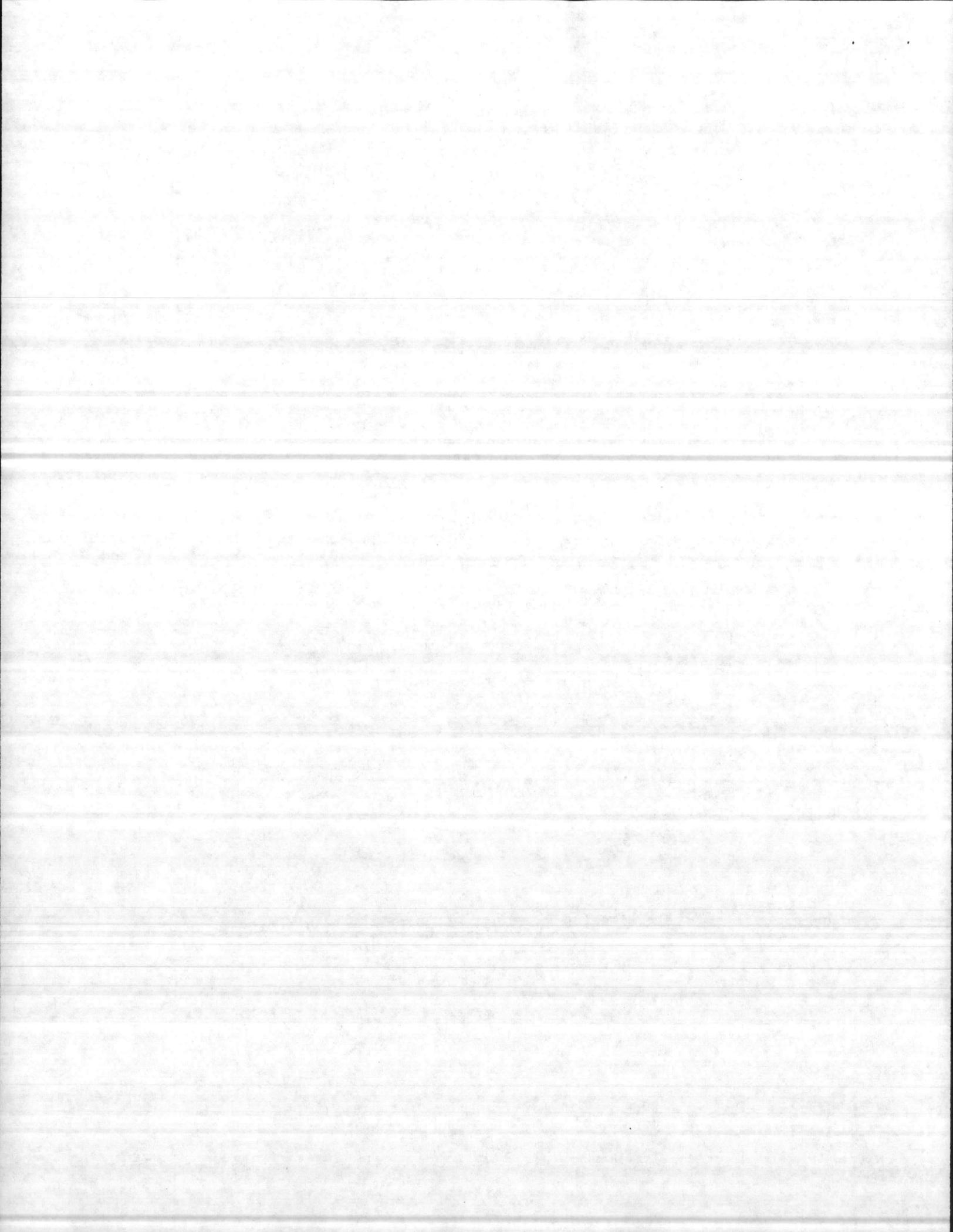
In figuring the space requirements for the following proposed projects, this activity utilized the total NAVFAC P-80 allowance.

Many approved Basic Facility Item Determination Sheets for this activity will have to be adjusted in accordance with the Helicopter Squadron Reorganization. The total increase in military personnel is projected to be 570, making a total military base loading figure of 5,666 upon reorganization.



1. P-404 AIRCRAFT MAINTENANCE HANGAR
Cat Code: 211-05/06/07 Scope: 144,054 SF
2. P-405 WAREHOUSE (STORES/OUT-OF-STORES) (Two Facilities)
Cat Code: 441-12 Scope: 42,214 SF (MAG-26)
28,500 SF (Station)
TOTAL: 70,714 SF
(24,700 SF for 4 new Squadrons)
3. P-406 WAREHOUSE (GENERAL)
Cat Code: 441-10 Scope: 50,427 SF
(16,275 SF for 4 new Squadrons)
4. P-409 ADDITION TO BACHELOR OFFICERS' QUARTERS
Cat Code: 724-12 Scope: 40,234 SF
5. P-410 BACHELOR ENLISTED QUARTERS (Formerly P-999 in Data Bank, HQMC)
Cat Code: 721-12 Scope: 274 MN
6. P-411 HAZARDOUS FLAMMABLES STOREHOUSE
Cat Code: 441-30 Scope: 2,157 SF
7. P-413 ADDITION TO AIRCRAFT MAINTENANCE HANGAR
Cat Code: 211-07 Scope: 9,600 SF
8. *P-125 DENTAL CLINIC
Cat Code: 540-10 Scope: 13,474 SF
9. *P-361 DISPENSARY
Cat Code: 550-10 Scope: 24,057 SF

*BUMED Projects. Facilities Studies will be prepared by this activity and forwarded to Naval Regional Dental/Medical Centers for development, approval, etc.



1. P-404, AIRCRAFT MAINTENANCE HANGAR

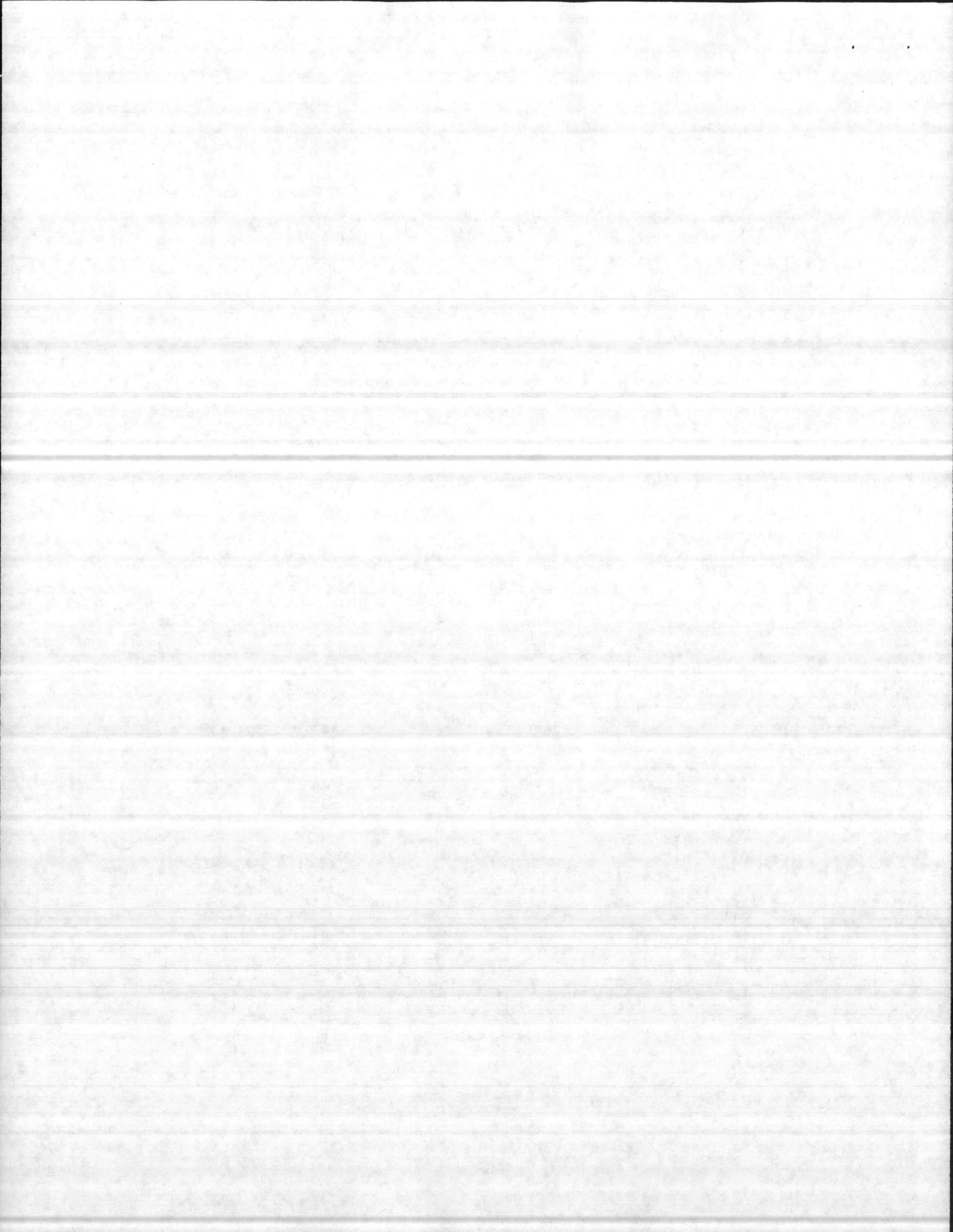
Category Codes: 211-05/06/07.

The analysis of this command indicates a need to construct only one Hangar (to include 2 Type II Modules and 1 Type I Module) and use of the existing space in Hangar AS-4108 vacated by Squadron HML-268 (the addition to that Hangar is MCON Project P-413, ADDITION TO AIRCRAFT MAINTENANCE HANGAR, AS-4108). AS-4108 space to satisfy the remaining Type I Hangar Module requirement.

Computation of the deficiency was based on the NAVFAC P-80 and is reflected below: (The figures are for Marine Aircraft Group 26 Squadrons (7) excluding H&MS-26 located in Hangar AS-518.)

| | Cat Code 211-05 OH-Hangar Space | Cat Code 211-06 01-Crew/ Equip | Cat Code 211-07 02-Admin Space |
|--|--|---|---|
| a. Existing Space | 170,973 | 55,834 | 63,797 |
| b. Current Requirements (*Includes 1,536 SF Mezzanine Space for each of 4 Type I Hangar Modules) | 165,552 | * 77,054 | 70,570 |
| c. Add'l Requirements w/4 Sqdns (*Includes 1,536 SF Mezzanine Space for 2 Type I Hangar Modules) | 97,056 | * 44,552 | 41,280 |
| d. Total Requirements (B + C) | 262,608 | 121,606 | 111,840 |
| e. Total Deficiencies (D - A) | 91,635 | 65,772 | 49,043 |
| f. Type I Module in Existing Hangar AS-4108 (P-413 is for addition of 9,600 SF to Hangar AS-4108) | 19,933 | 6,701 | 5,456 |
| g. New Multi-Module Hangar -- 1 Type I, 2 Type II | 77,088 | 34,326 | 32,640 |
| h. Total Space Recommended (F + G) | 97,021 | 41,027 | 38,096 |
| i. Comparison: | | | |
| Add'l Reqs (C) | 97,056 | 44,552 | 41,280 |
| Recommendation (H) | 97,021 | 41,027 | 38,096. |

(Plus P-413, Addition to Hangar AS-4108, 9,600 SF for 211-06/07)



2. P-405, WAREHOUSE (STORAGE/OUT-OF-STORES)

Category Code: 441-12.

The requirement for four new squadrons in this Category Code is 24,700 SF; however, the total deficiency in this Category Code for Marine Aircraft Group 26 is 42,214 SF.

The four new squadrons rate 26,000 SF in accordance with the NAVFAC P-80; however, 5% of 26,000 SF (1,300 SF) will be used in P-411, Hazardous and Flammables Storehouse.

For Category Code 441-12 a HMH Squadron rates 7,000 SF and an HMM Squadron rates 6,000 SF.

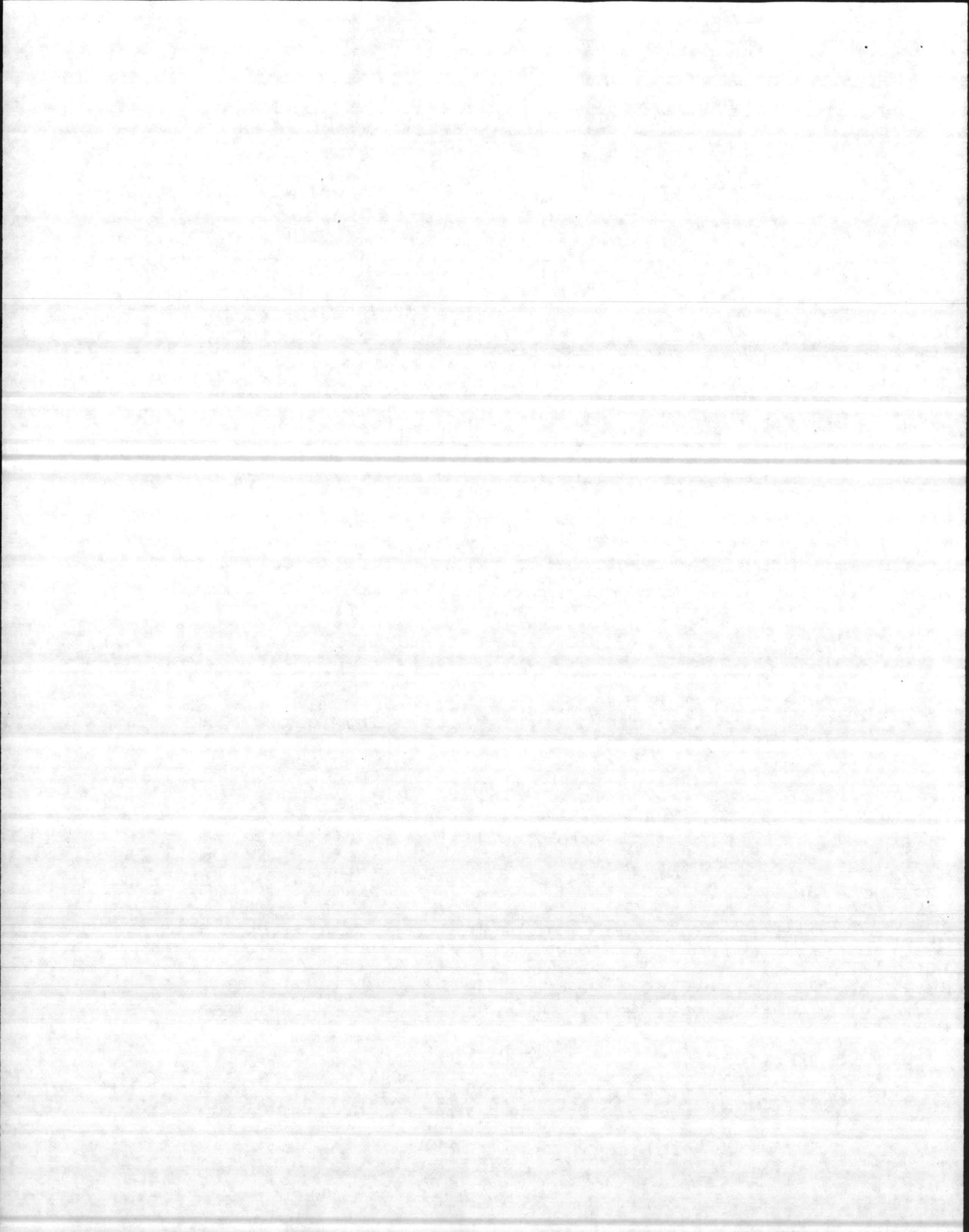
| | |
|-----------------|---------------|
| HMH - 2 x 7,000 | 14,000 |
| HMM - 2 x 6,000 | <u>12,000</u> |
| | 26,000 |
| -5% | <u>1,300</u> |

24,700 SF.

This activity recommends correction of the total deficiency. Computation of the deficiency was based on the NAVFAC P-80 and is reflected below:

| | |
|--|------------------|
| a. Existing Space | 56,986 SF |
| b. Current Requirements: | |
| CH-46/53 Sqdns | 45,000 SF |
| H&MS | 19,000 SF |
| MABS | <u>13,500 SF</u> |
| TOTAL | 77,500 SF |
| c. Add'l Requirements (4 Add'l Squadns) (26,000 SF - 5% (1,300 SF) for 441-30)* | 24,700 SF |
| d. Total Requirements (B + C) | *102,200 SF |
| e. Total Deficiencies (D - A) | 42,214 SF |
| f. Recommend Correction of Total Deficiencies (MAG-26) | 42,214 SF |
| g. Deficiencies (Station) (For Aeronautical parts) | <u>28,500 SF</u> |
| TOTAL P-405 | 70,714 SF |

*1,300 SF (5% of 26,000 SF) will be used for Category Code 441-30, Hazardous and Flammables Storehouse, P-411, leaving 24,700 SF for inclusion in P-405 for 4 new squadrons.



3. P-406, WAREHOUSE (GENERAL)

Category Code: 441-10

The requirement for four new squadrons in this Category Code is 16,275 SF; however, the total deficiency in this Category Code for Marine Aircraft Group 26 is 50,427 SF.

The four new squadrons rate 17,132 SF in accordance with the NAVFAC P-80; however 5% of 17,132 SF (847 SF) will be used in P-411, Hazardous and Flammables Storehouse.

For Category Code 441-10, each 53 Aircraft rates 356 SF per aircraft and each 46 Aircraft rates 254 SF.

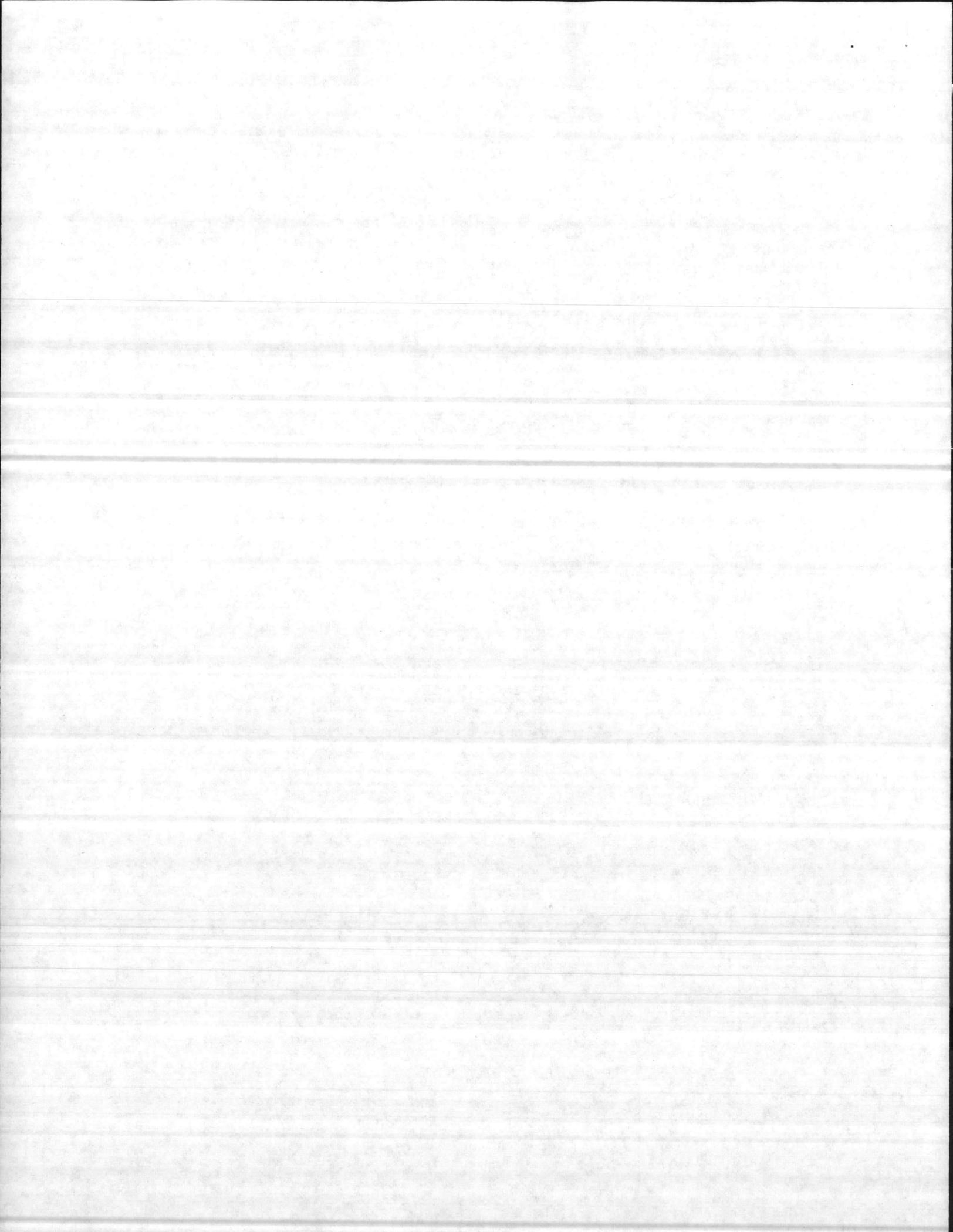
| | | |
|----------------------|---|-----------------|
| 53 A/C - 31 x 356 SF | = | 11,036 SF |
| 46 A/C - 24 x 254 SF | = | <u>6,096 SF</u> |
| | | 17,132 SF |
| -5% | | <u>857 SF</u> |
| | | 16,275 SF |

This activity recommends correction of the total deficiency.

Computation of the deficiency was based on the NAVFAC P-80 and is reflected below:

| | | |
|---|--|------------------|
| | | None Adequate |
| a. Existing Space | | |
| b. Current Requirements: | CH-46 | 21,336 SF |
| | CH-53 | <u>12,816 SF</u> |
| | TOTAL | 34,152 SF |
| c. Add'l Requirements: | CH-46 | 6,096 SF |
| | CH-53 | <u>11,036 SF</u> |
| | TOTAL | 17,132 SF |
| | (less 5% of 17,132 SF for Cat Code 441-30)** | <u>857 SF</u> |
| | TOTAL P-406 | 16,275 SF |
| d. Total Requirements (B + C) | | 50,427 SF |
| e. Total Deficiencies (D - A) | | 50,427 SF |
| f. Recommend Correction to Total Deficiencies | | 50,427 SF. |

*857 SF (5% of 17,132 SF) will be used for Category Code 441-30, Hazardous and Flammables Storehouse, P-411, leaving 16,275 SF for inclusion in P-406 for 4 new squadrons.



4. P-409, ADDITION TO BACHELOR OFFICERS' QUARTERS

Category Code: 724-11/12

The existing deficiency in these two Category Codes is 40,234 SF which is indicated as the scope of this project at this time.

The approved BFRL figures for these two Category Codes total 108,125 SF.

(Category Code 724-11 (W1 - 02) 71,725 SF

Category Code 724-12 (03 & above) 36,400 SF

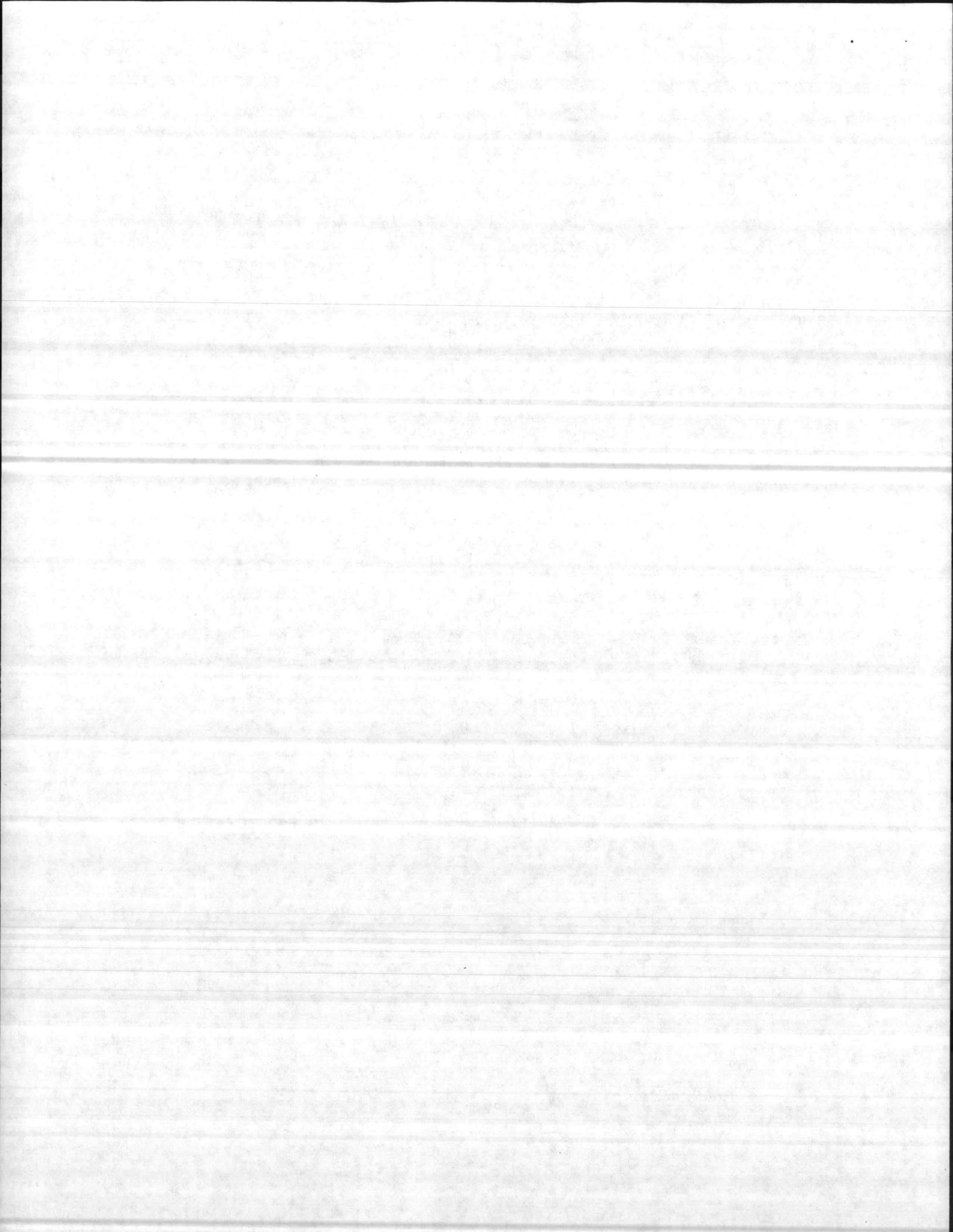
TOTAL 108,125 SF)

The existing space in the Air Station Bachelor Officers' Quarters, Building AS-705, is 67,891 SF, Adequate.

Therefore, 108,125 SF - 67,891 SF = 40,234 SF existing deficiency for these two Category Codes.

Detailed planning figures for determining the exact scope of this project cannot be computed at this time without exact T/O figures to determine percentage of bachelors requiring bachelor quarters.

In the absence of actual survey data in this circumstance and upon receipt of actual proposed T/O figure for the Helicopter Squadron Reorganization, the Navy and Marine Corps service-wide averages shown on page 710-1 of the NAVFAC P-80 will be utilized in determining the officer bachelor housing requirements for the scope of this project.



5. P-410, BACHELOR ENLISTED QUARTERS

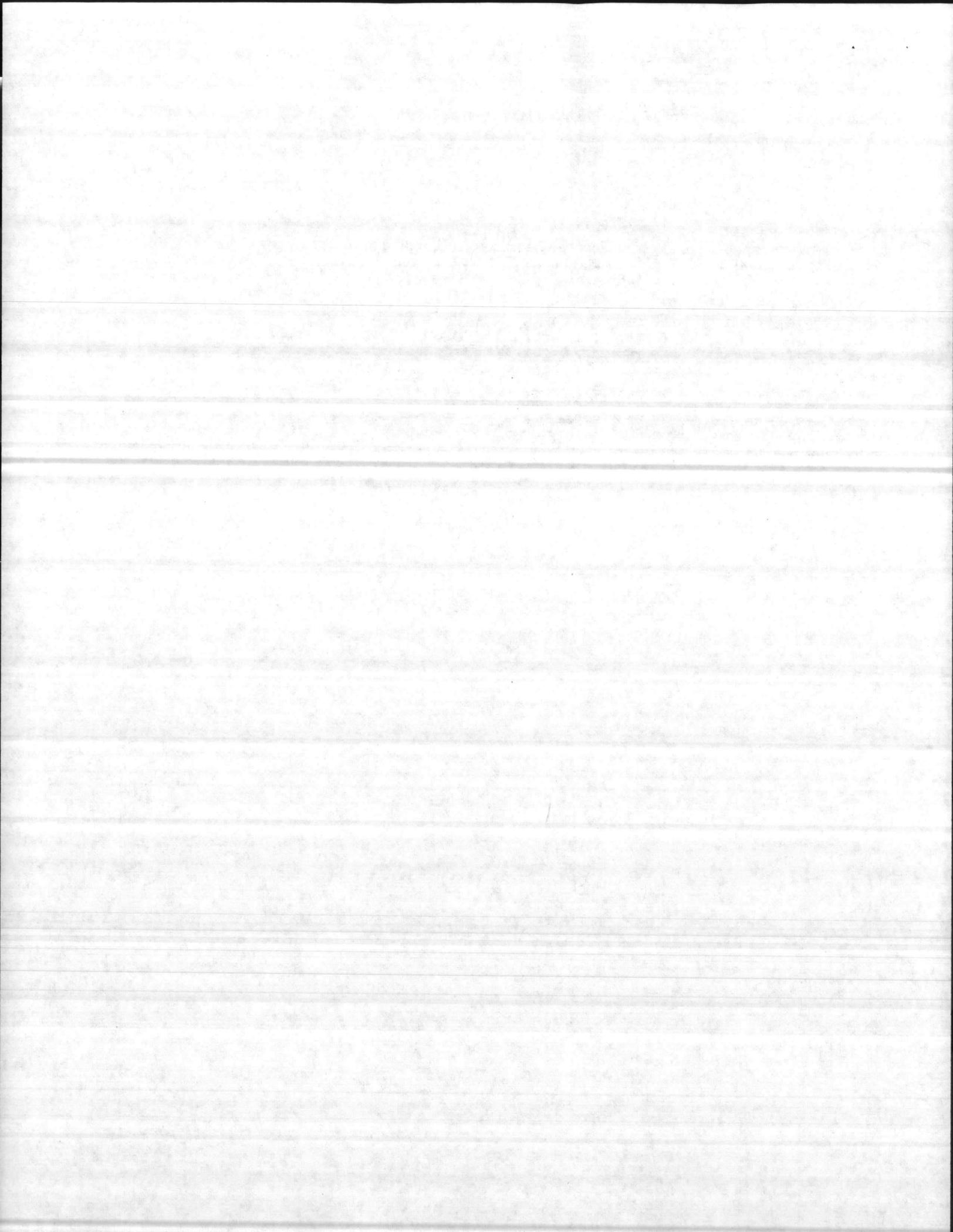
(Formerly P-999 in Data Bank HQMC (LFF-1))

Category Code: 721-12

It is recommended by this activity that this project for construction of a Bachelor Enlisted Quarters (presently with a scope of 274 men) be reactivated to accommodate the increased base loading in conjunction with the Helicopter Squadron Reorganization.

Detailed planning figures for determining the exact scope of this project cannot be computed at this time without exact T/O figures to determine percentage of bachelors requiring bachelor quarters.

In the absence of actual survey data in this circumstance and upon receipt of actual proposed T/O figures for the Helicopter Squadron Reorganization, the Navy and Marine Corps service-wide averages shown on page 710-1 of the NAVFAC P-80 will be utilized in determining the enlisted bachelor housing requirements for the scope of this project.



6. P-411, HAZARDOUS FLAMMABLES STOREHOUSE

Category Code: 441-30

Hazardous and flammables storehouse space (Category Code 441-30) may not exceed 5% of the warehouse space allowed for Category Codes 441-10 through 441-35/40.

The warehouse space required for the four new squadrons in accordance with the NAVFAC P-80 is as follows:

441-10:

Each 53 aircraft rates 356 SF per aircraft (31) = 11,036 SF

Each 46 aircraft rates 254 SF per aircraft (24) = 6,096 SF

Total: 17,132 SF x 5% = 857 SF.

441-12:

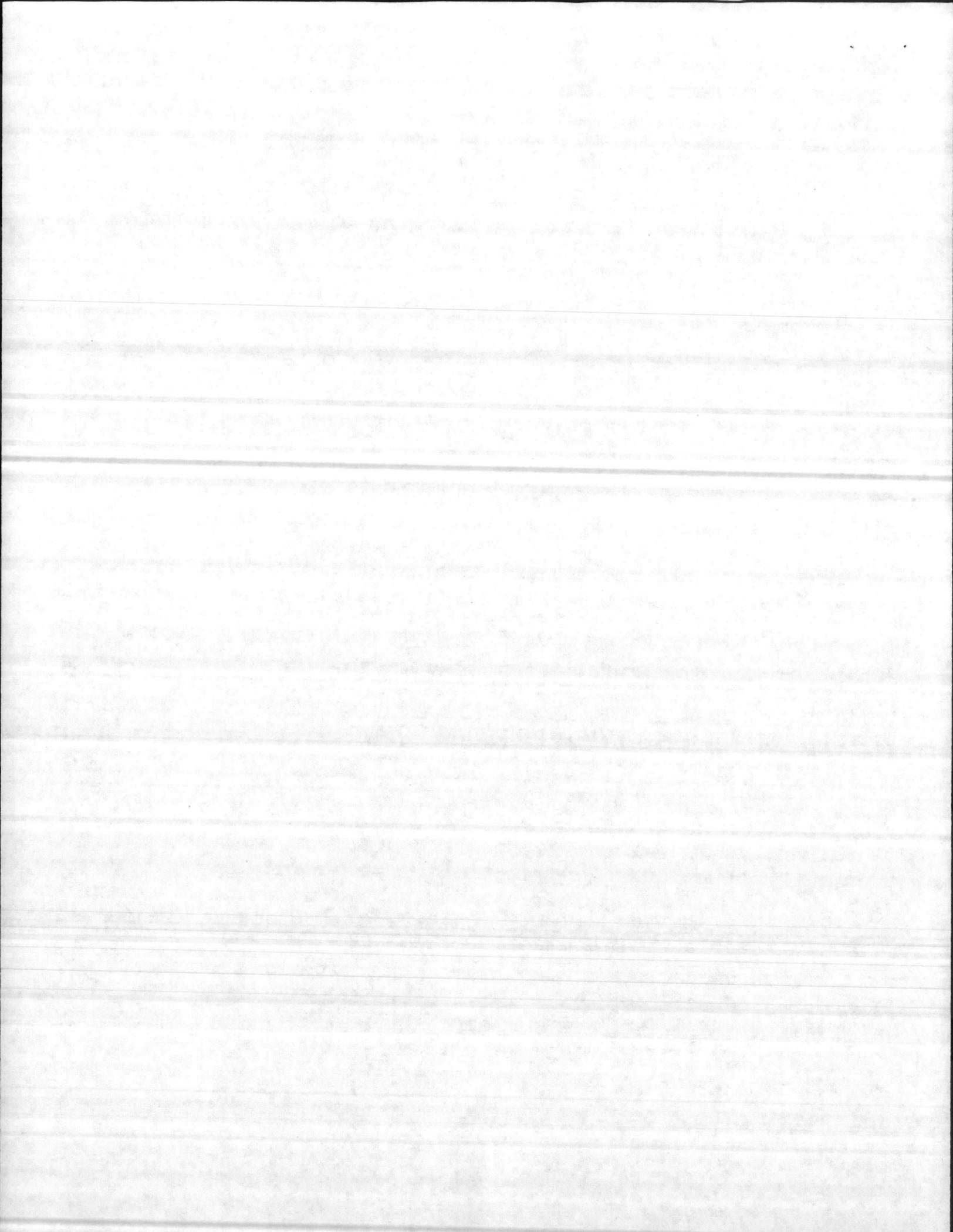
Each HMH Squadron rates 7,000 SF per Sqdn (2) = 14,000 SF

Each HMM Squadron rates 6,000 SF per Sqdn (2) = 12,000 SF

Total: 26,000 SF x 5% = 1,300 SF.

Therefore, total scope of this project is 857 SF
+ 1,300 SF

2,157 SF.



7. P-413, ADDITION TO A/C MAINTENANCE HANGAR (AS-4108)

Category Codes 211-06/07

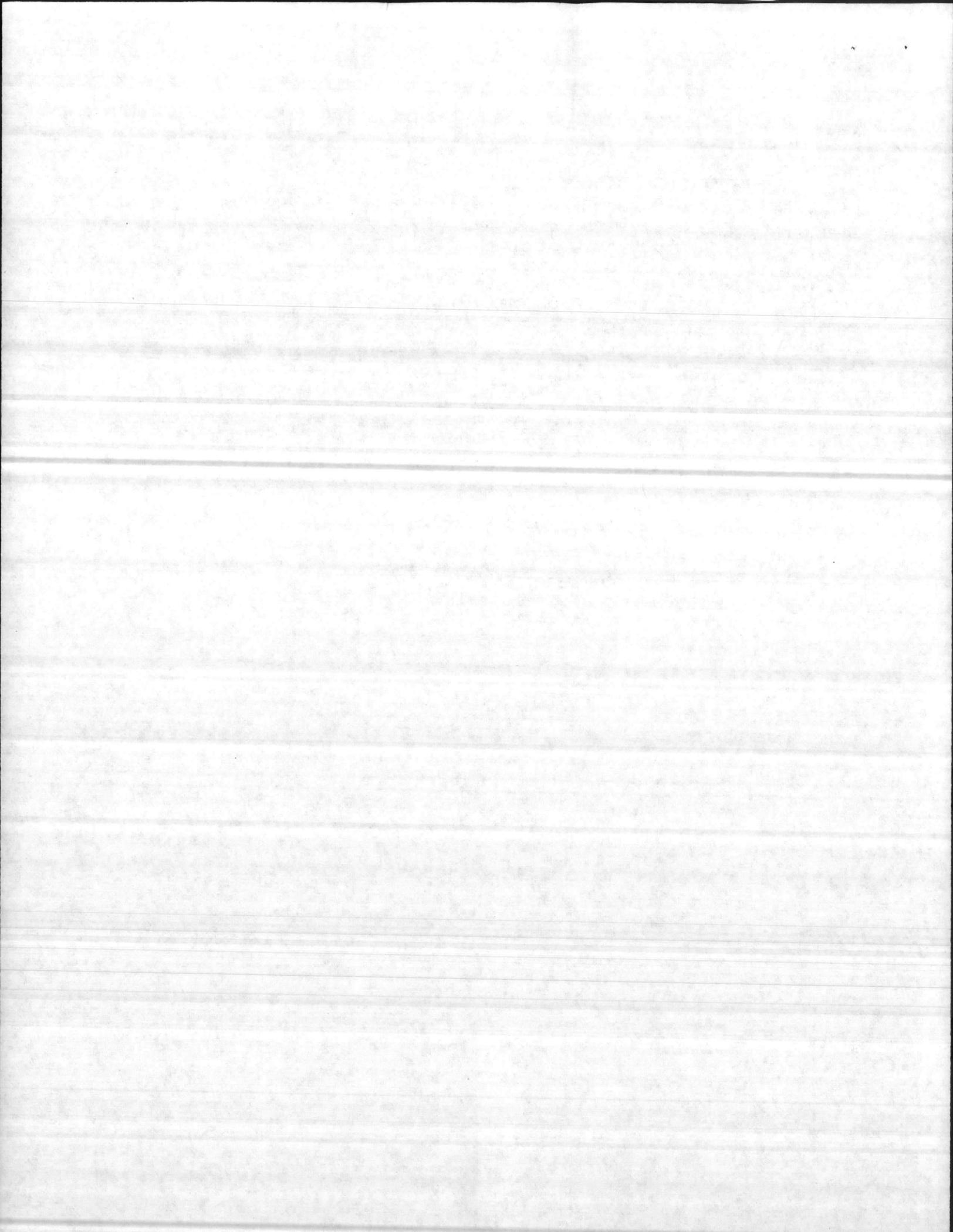
Air Station Hangar AS-4108 was constructed in 1969 for Training Squadrons assigned to this activity; therefore, a portion of the Hangar (9,600 SF) was not completed since the requirement for Crew and Equipment or Administrative Space did not exist at that time.

It is the recommendation of this activity that the 9,600 SF area of Hangar AS-4108 be completed to assist in accommodating one of the additional CH-46 Helicopter Squadrons upon reorganization. There are presently two MAG-29 Squadrons (one UH and one AH Squadron) occupying Hangar AS-4108. There is adequate space for OH Space (Hangar Space) existing in AS-4108 to accommodate the three Squadrons; however, there is a shortage of 01 (Crew and Equipment) and 02 (Administrative) space and the addition of 9,600 SF to the existing Hangar would provide adequate space in these two Category Codes (211-06/07) to meet the requirements for the three Squadrons.

Type I Module to be utilized in Hangar AS-4108 is:

| | |
|-----------|--------------------------|
| 19,933 SF | 211-05 (Hangar - OH) |
| 6,701 SF | 211-06 (Crew/Equip - 01) |
| 5,456 SF | 211-07 (Admin - 02) |

The addition of 9,600 SF would satisfy the deficiencies in the last two Category Codes 211-06/07.



8. P-125, DENTAL CLINIC

Following space requirements computed in accordance with NAVFAC P-80
(to include Helicopter Squadron Reorganization)

Category Code 540-10

One Dental Officer allowed per 700 authorized patient loading.

In addition to Dental Officers' Rooms (DOR's), one Oral Hygiene Treatment Room (OHTR) will be provided for each 1,500 authorized patient loading. 5,666 divided by 1500 equals: 4 OHTR's.

Patient loading with Helicopter Squadron Reorganization: 5,666
(Total Military base loading from latest FSR - FY 80-84)

5,666 divided by 700 equals Dental Officers required: 8.09 (8)

8.09 (or 8) x 2.0 (planning factor provided by NAVFAC P-80) equals number of DOR's required: 16

Total DOR's/OHTR's required: 16 (DOR's) plus 4 (OHTR's) = 20

Table 540-10:

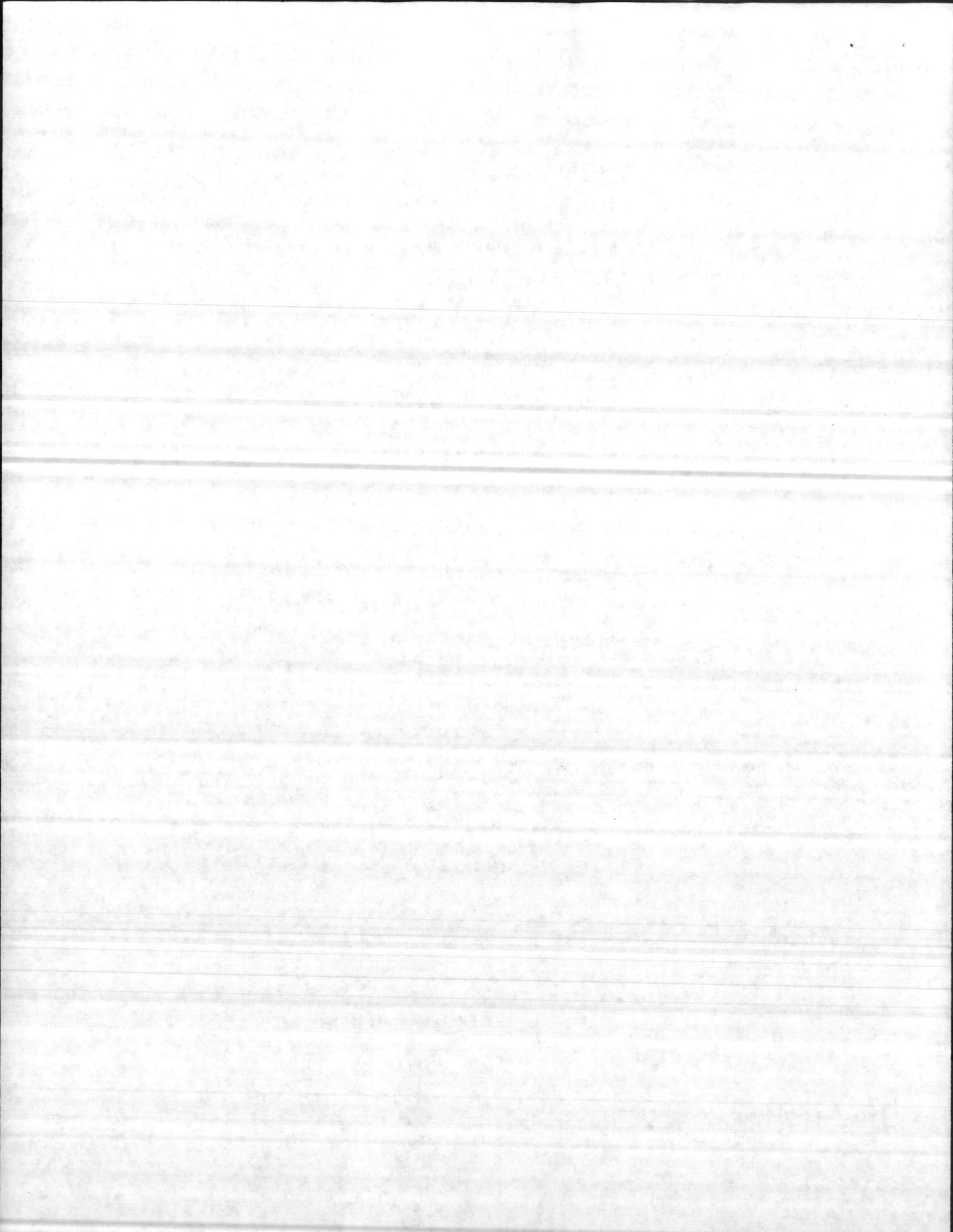
| <u>DOR/OHTR</u> | <u>SF Allowed</u> | (From Table 540-10, NAVFAC P-80, 2 entries from Table where the 22 DOR's/OHTR's would fall for determining SF allowed) |
|-----------------|-------------------|--|
| 18 | 12,210 | |
| 24 | 16,000 | |
| So, 16,000 | | |
| - <u>12,210</u> | | |
| = 3,790 SF | | |

For the additional 4 DOR's/OHTR's, need SF per unit so must divide 3,790 SF by 6 (24 - 18). SF allowed per unit according to Table 540-10 (using Interpolation Methodology) equals: 632.

632 x 2 (20 - 18) = 1,264 additional SF (additional to the 12,210 SF reflected on the Table for 18 DOR's/OHTR's.)

So, 12,210 (from Table for 18 DOR's/OHTR's)
+ 1,264 (additional allowance for 4 DOR's/OHTR's)
13,474 SF will be recommended for Project P-125, Dental Clinic.

The Facility Study will be prepared by this activity and forwarded to the Naval Regional Dental Center, Marine Corps Base, Camp Lejeune, North Carolina for their consideration and action as appropriate.



9. P-361, DISPENSARY

Following space requirements computed in accordance with NAVFAC P-80 (to include Helicopter Squadron Reorganization)

Category Code 550-10

Outpatient Treatment Facility. The following is the square footage requirement for dispensaries without operating beds and will contain space for observation beds that are not counted as operating beds.

Outpatient Visits in Base Year - 30,000 (From Medical)

Visitation Rate (Visits per person per year) = 6.12

(Outpatient visits in base year (30,000) divided by personnel in base year (4900 - auth T/O))

Total military base loading figure from latest FSR FY 80-84 is: 5,666.

Multiply number of personnel in planning year (5,666 upon reorganization)

Visitation rate (6.12) equals 34,675 (Projected outpatient visits in planning year).

Utilizing Chart 510-10A, NAVFAC P-80:

| <u>Outpatient Visits/Yr.</u> | <u>Rates Area (SF)</u> |
|------------------------------|------------------------|
| 20,000 | 17,600 |
| 40,000 | 26,400 |

Since our projected outpatient visits in the planning year are 34,675, subtract 17,600 from 26,400 = 8,800 (difference in the two area requirements on the chart above).

Divide 8,800 by 20,000 to get ratio of each unit (8,800) above. Each unit of the 8,800 equates to .44.

Take 34,675 and subtract 20,000 = 14,675 (amount above 20,000 on chart above)

Multiply 14,675 by .44 = 6,457 additional SF (additional to the 17,600 SF on chart above).

So, 17,600
+ 6,457

24,057 SF (area required for outpatient visits/yr - 34,675)

Requirement: 24,057 SF based on NAVFAC P-80, Base loading figures, visitation rate.

The Facility Study will be prepared by this activity and forwarded to the Naval Regional Medical Center, Marine Corps Base, Camp Lejeune, North Carolina for their consideration and action as appropriate.

