

**HOLMES &
NARVER, INC.**
ENGINEERS - CONSTRUCTORS



A RESOURCE SCIENCES COMPANY

PACIFIC TEST DIVISION
CONTRACT EY-76-C-08-0020

P.O. BOX 29939

HONOLULU, HAWAII 96820

(808) 422-9221

January 17, 1977

Col. Howard B. Thompson, USA
Chief, Pacific Support Division
Defense Nuclear Agency
Field Command
P. O. Box 29939
Honolulu, Hawaii 96820

BEST COPY AVAILABLE

MEDICAL CLINIC, BUILDING 603, ENEWETAK

Dear Col. Thompson:

In response to Col. Schaefer's verbal request of 17 December 1976, we herewith submit our conceptual estimate for a Medical Clinic at Enewetak in Building 603 based upon recommendations as presented in a Trip Report of Richard A. Lund, Lt. Col., USAF, MSC, dated 16 December 1976. The total concept cost for this facility as per attached summary sheet is \$51,850.

It should be noted that this estimate assumes that all medical and dental equipment will be Government furnished. The estimate does include the special shielding required for the X-Ray Room.

Very truly yours,

HOLMES & NARVER, INC.

Original Signed by
D. J. Brush

D. J. Brush
General Manager

Attachment
as indicated.

cc: Director, PASO/USERDA - w/attachment

PRICED AFA 1/13/77
 CHECKED \$ 1/13/77

SUMMARY ESTIMATE
 CONTRACT AT(29-2)-20

HOLMES & NARVER, INC.
 TECHNOLOGY & CONSTRUCTION
 PACIFIC TEST DIVISION
 AEC CONTRACT AT(29-2)-20

TITLE: BUILDING #603
 FOR PROPOSED DISPENSARY.
 CONCEPTUAL ESTIMATE

| SUB. ACCT. NO. | DESCRIPTION | QUANTITY | UNIT | LABOR | | MATERIAL TOTAL \$ | EQUIP. USE | | SUB-CONTRACT TOTAL \$ | TOTAL |
|---|--------------------------|----------|------|-----------|----------|-------------------|------------|----------|-----------------------|---------|
| | | | | MAN HOURS | TOTAL \$ | | HOURS | TOTAL \$ | | |
| THIS CONCEPTUAL ESTIMATE IS IN ACCORDANCE WITH TAP REPORT LETTER DATED 16 DEC 1976 AND SKETCHES OF PROPOSED CLINIC AREA OF BUILDING #603. | | | | | | | | | | |
| 080 | SITE PREPARATION | | | 60 | 960 | - | | GFE | | 960 |
| 120 | SPECIAL SHIELDING | | | 48 | 768 | 2340 | | " | | 3180 |
| 150 | CARPENTRY | | | 212 | 3392 | 3720 | | " | | 7112 |
| 220 | MISCELLANEOUS METAL WORK | | | 8 | 128 | 50 | | - | | 178 |
| 290 | FLOOR COVERING & BASE | | | 48 | 768 | 1450 | | - | | 2218 |
| 410 | PAINTWORK | | | 164 | 2624 | 2818 | | - | | 5442 |
| 440 | PLUMBING | | | 287 | 4592 | 2200 | | GFE | | 6792 |
| 450 | FIRE PROTECTION SYSTEM | | | 40 | 640 | 950 | | " | | 1590 |
| 470 | AIR CONDITIONING | | | 144 | 2304 | 850 | | " | | 3154 |
| 490 | BUILDING | | | 8 | 128 | 25 | | - | | 153 |
| 600 | ELECTRICAL | | | 264 | 4224 | 1725 | | GFE | | 5949 |
| 626 | SPECIAL EQUIPMENT | | | 64 | 1024 | 200 | | " | | 1224 |
| 630 | PAINTING | | | 64 | 1024 | 1050 | | " | | 2074 |
| 740 | SEWERAGE UTILITIES | | | 120 | 1920 | 300 | | " | | 2220 |
| 780 | SUPERVISION | | | 140 | 2240 | - | | - | | 2240 |
| SUB-TOTAL | | | | 1671 | 26736 | 17678 | | GFE | | 44414 |
| M & O SUPPORT (1800 MH @ 1.50) | | | | | | | | | | 2700 |
| SUB-TOTAL | | | | | | | | | | 47114 |
| CONTINGENCY | | 10% | | | | | | | | 4736 |
| ESTIMATED TOTAL COST. | | | | | | | | | | \$51850 |

Reviewed for Scope
 RA- [Signature] Date 1-14-77

Approved: [Signature] General Manager
 Concurred: [Signature] USERDA/PASO

APPROVED _____
 DATE _____

SITE: ENWETAH IS. DATE: 1/13/77 BY: AFA ESTIMATE NO. N5712 SHEET 1 OF 1

Dispensary Review Comments

- ✓ 1. Need sink in Drs office. &
- ✓ 2. LAB - need counter "B"
- ✓ 3. DARKROOM need sink, drain line etc.
- ✓ A. Pharmacy need sink? No
- ✓ B. Dbl swing door in X-Ray
- ✓ C. X-Ray control panel
- ✓ E. Can we reduce standards of construction -
Single wall construction?
Moveable partitions?

Dispensary Design Eval

1. 020 - ok

2. 120 - Is thickness the same for
Regular & Dental machines.

3. 150 - ok

4. 220 - ok

5. 290 - ok

6. 410 - How many doors are you
installing/Re-facing

7. 440 - ok

8. 450 - Do we need 16 sensors?

9. 500 - ok

10. 600 - ok

11. 626 - Will shelves be self contained?
what requires 16 hrs to install.

12. 630 - ok

13. 740 - ok

15. 780 - Are you actually going to have a Super?
(OVER)

Does showering need sink?

Why does lab need two sinks?

Swinging doors in the X-Ray room?

Where are controls for X-RAY

How do you show lead lining on X-Ray room walls?

Sink in doctors office?