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DEPARTMENT OF DEFENSE

TACTICAL MISSILE



MAINTENANCE CENTER

Building 370:
 285,680 S.F.
 AMRAM
 ATAS
 AVENGER
 HARM
 HAWK: ARMY & USMC
 JAVELIN
 JTVAV-SR
 MAVERICK
 MLRS
 M90 GGRAPH
 PATRIOT
 PHOENIX
 SIDEWINDER
 SPARROW
 STINGER
 THAAD/CBR

Building 3810:
 24,036 S.F.
 ATACMS

**MISSILE SYSTEMS
 TEST SITE**

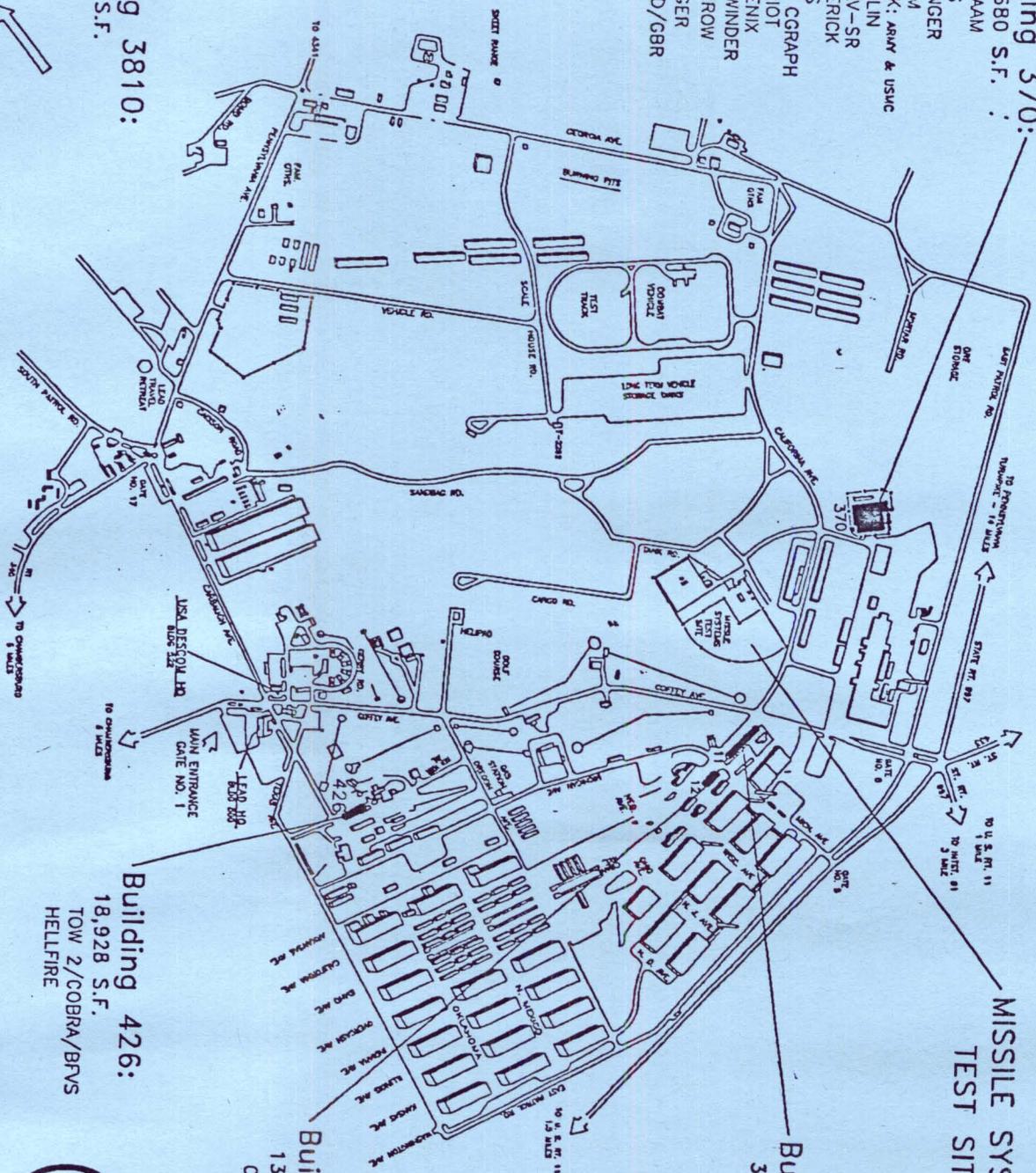
Building 11:
 30,000 S.F.
 CABLE REELING
 DRAGON
 FAAD/GBS
 LOSS
 SHILLELAGH
 STANDARD

Building 12:
 13,160 S.F.
 C&W HARNESS

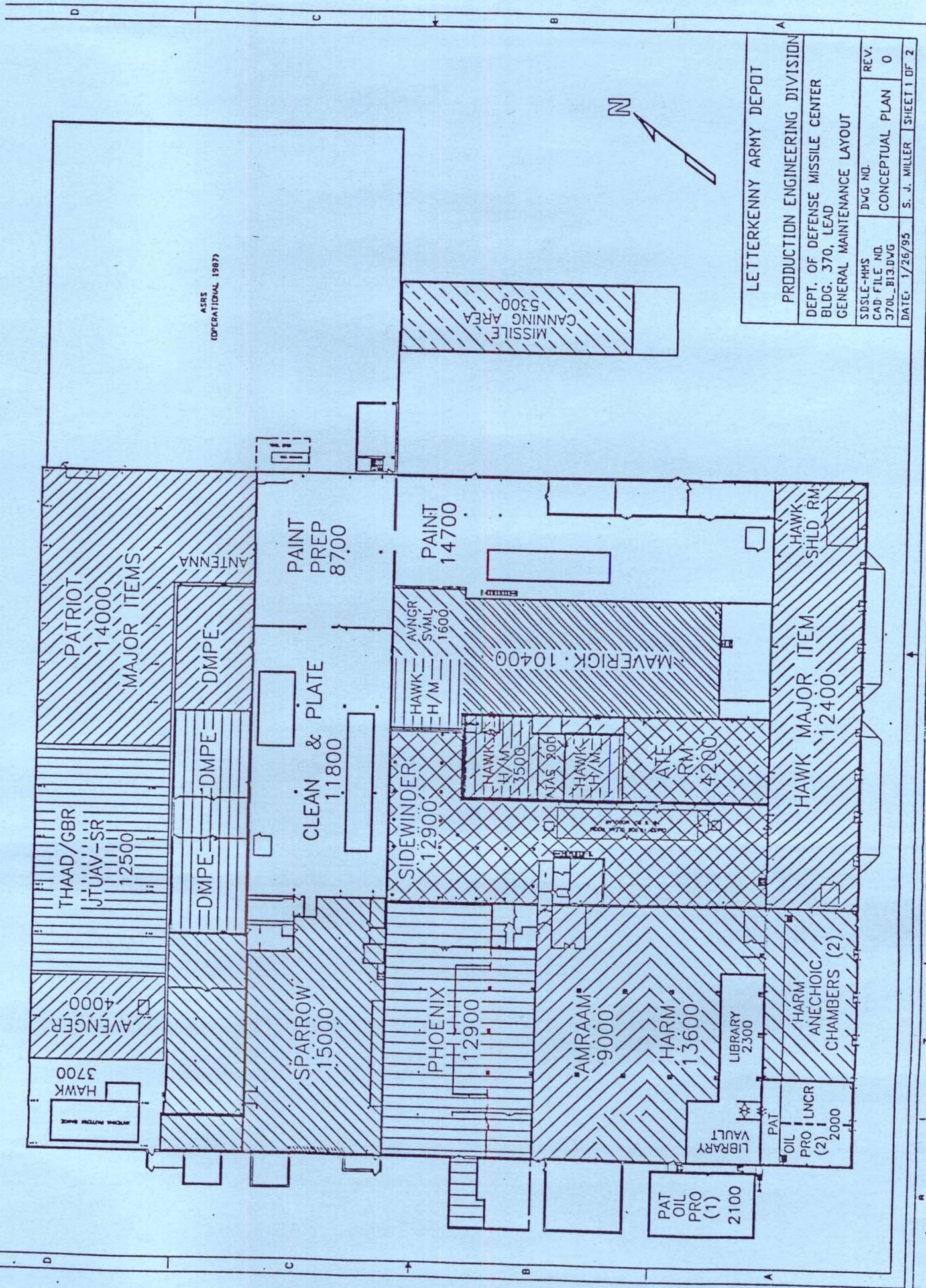
Building 426:
 18,928 S.F.
 TOW 2/COBRA/BVS
 HELLFIRE



**LETTERKENNY ARMY DEPOT
 TACTICAL MISSILE MAINTENANCE CENTER**

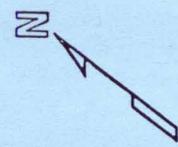


1/25/2004 0900



ASRS
(OPERATIONAL 1987)

MISSILE
CANNING AREA
5300



LETTERKENNY ARMY DEPOT	
PRODUCTION ENGINEERING DIVISION	
DEPT. OF DEFENSE MISSILE CENTER	
BLDG. 370, LEAD	
GENERAL MAINTENANCE LAYOUT	
SOSLE-HMS CAD FILE NO. 370L_B13.DWG	DWG NO. CONCEPTUAL PLAN 0
DATE: 1/26/95	REV. S. J. MILLER SHEET 1 OF 2

THAAD/GBR
JTUAV-SR
12500

AVENGER
4000

HAWK
3700

PATRIOT
14000

MAJOR ITEMS

DMPE

DMPE

DMPE

DMPE

ANTENNA

CLEAN & PLATE
11800

SPARROW
15000

PHOENIX
12900

AMRAAM
9000

HARM
13600

LIBRARY VAULT

PAT OIL PRO (1)
2100

LIBRARY
2300

OIL PRO LNCR (2)
2000

HARM ANECHOIC CHAMBERS (2)

SIDEWINDER
12900

HAWK H/M
3500

AVNGR SVML
1600

MAVERICK 10400

ATE RM
4200

HAWK MAJOR ITEM
12400

HAWK SHLD RMs

PAINT PREP
8700

PAINT
14700

BUILDING 370 MILCON FACILITIES IMPROVEMENTS

LOW BAY ENCLOSURE

&

SMALL MEZZANINE

\$.835M S: JUN 94 C: FEB 95

LARGE MEZZANINE

&

ALL OTHER RENOVATIONS

HVAC, POWER, LIGHTING, SPRINKLERS, ETC.

\$1.733M S: OCT 94 C: JUL 95

MINOR PROJECTS (DBOF)

LIGHTNING PROTECTION

\$.261M C: JAN 95

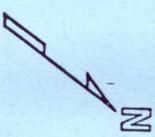
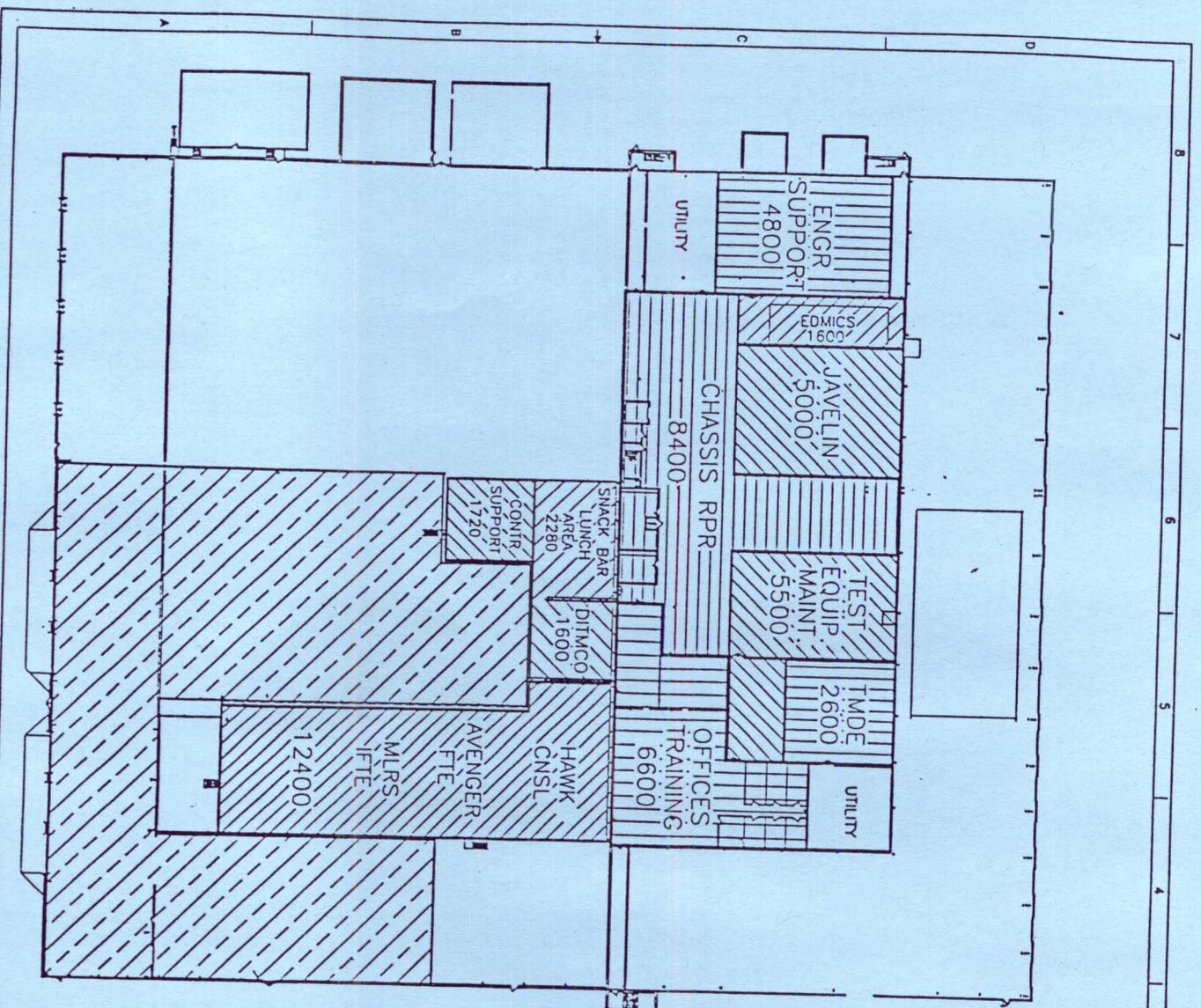
BLDG. 377 ALTERATIONS

\$.150M C: MAR 95

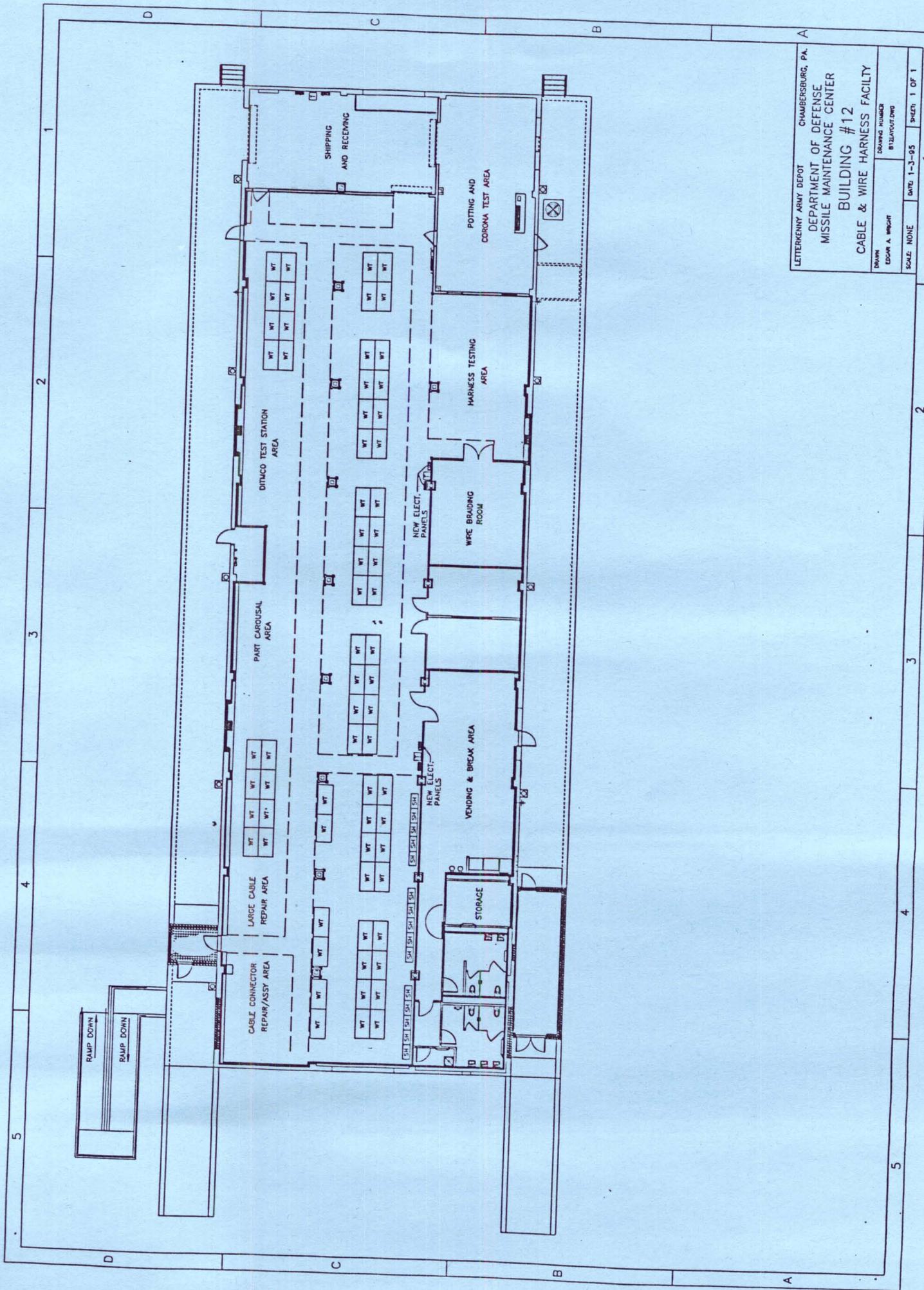
SPARROW HYDR ENCL - COMPLETE

VAULT EXPANSION - COMPLETE

PHOENIX ALTERATIONS - COMPLETE



DATE	BY	REVISION
10/11/94	JM	ISSUED FOR CONSTRUCTION
10/11/94	JM	ISSUED FOR CONSTRUCTION
10/11/94	JM	ISSUED FOR CONSTRUCTION
10/11/94	JM	ISSUED FOR CONSTRUCTION



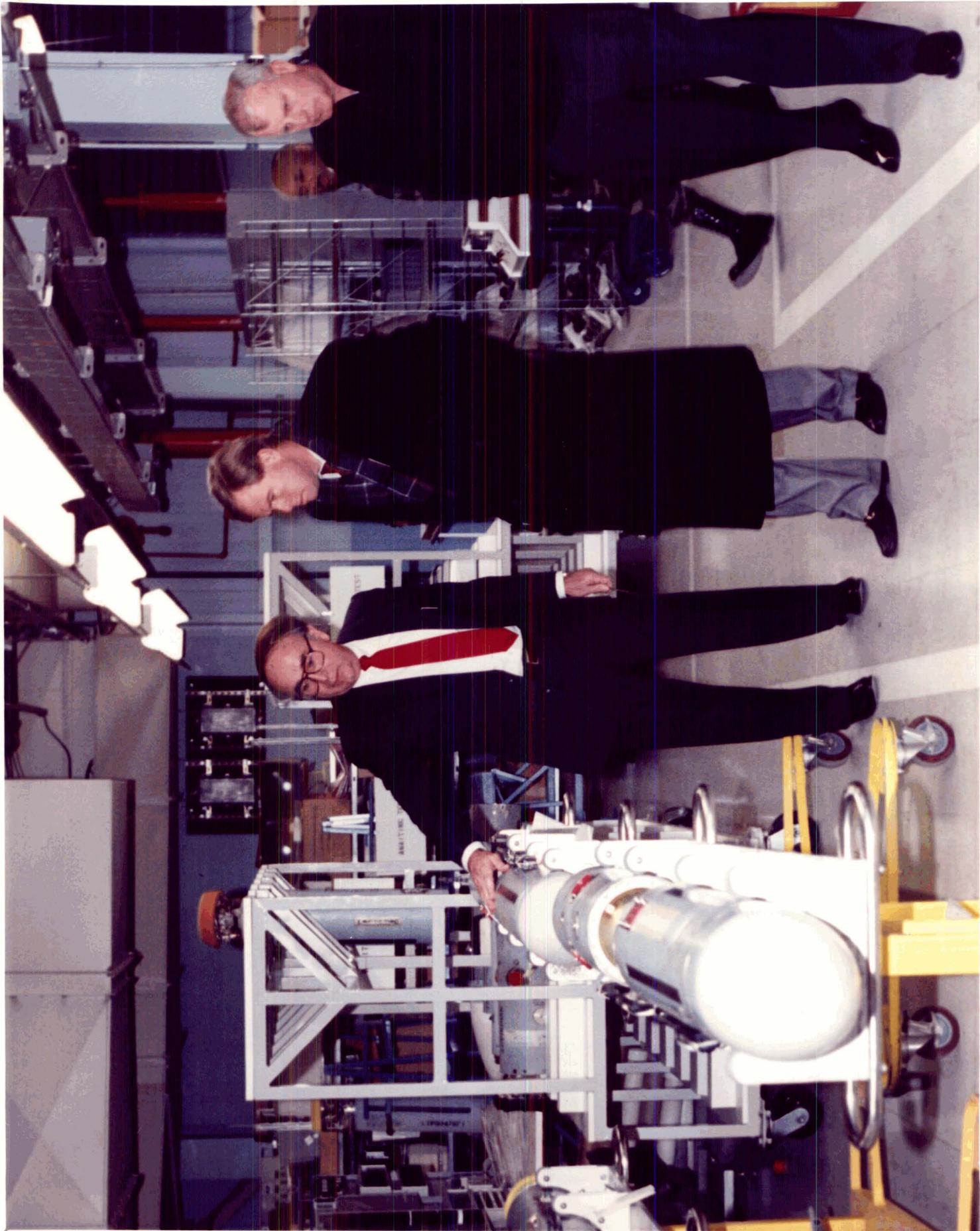
LETTERKENNY ARMY DEPOT
 CHAMBERSBURG, PA.
 DEPARTMENT OF DEFENSE
 MISSILE MAINTENANCE CENTER
 BUILDING #12
 CABLE & WIRE HARNESS FACILITY

DRAWN BY: EDGAR A. WRIGHT
 DRAWING NUMBER: 8244000100
 SCALE: NONE
 DATE: 1-3-95
 SHEET: 1 OF 1

UNDER SEC. OF THE ARMY JOE REEDER

TOUR OF DOD TACTICAL MISSILE MAINTENANCE CENTER

- LOCATION - LETTERKENNY ARMY DEPOT
BLDG. 370
- PICTURED FROM LEFT TO RIGHT ARE:
- * ELECTRONICS SHOPS DIV. CHIEF - DAVID M. GOODMAN
* UNDER SECRETARY JOE REEDER
* LETTERKENNY COMMANDER - COL. JAMES P. FAIRALL, JR.
- DATE - 13 DEC 94
- MEMO FROM MR. REEDER TO UNDER SEC. OF DEF. FOR LOGISTICS, GEN. JAMES KLUGH:
- "... FINALLY, CLOSING LETTERKENNY WOULD SIGNIFICANTLY COMPLICATE ONGOING CONSOLIDATION OF VIRTUALLY ALL TACTICAL MISSILE WORKLOAD DIRECTED BY BRAC-93. AS YOU KNOW, THIS CONSOLIDATION WAS DIRECTED AFTER DOD SUBMITTED ITS PLAN TO CLOSE LETTERKENNY. APART FROM THE MISSILE CONSOLIDATION, ARGUMENTS FOR CLOSURE TODAY DO NOT SEEM TO BE ANY MORE COMPELLING THAN THOSE PREVIOUSLY REJECTED; AND IN FACT, DOD WOULD LOSE THE SYNERGY AND EFFICIENCIES WE HOPED TO GAIN BY CONSOLIDATING MISSILE MAINTENANCE WORKLOAD AND MISSILE STORAGE."
- DATED 16 DEC 94.



AUTOMATED STORAGE AND RETRIEVAL SYSTEM (ASRS) PLUS

- 40,000 SQUARE FEET
- 8,000 STORAGE LOCATIONS
- PNEUMATIC TUBE PARTS DELIVERY SYSTEM
- 9 AUTOMATIC GUIDED VEHICLES (AGVS)
- 2 HP1000 - MODEL A900 COMPUTERS
- LOCATION - BLDG. 370





Kenway

1482

1482

1991

1991

CANNING & DECANNING OPERATION

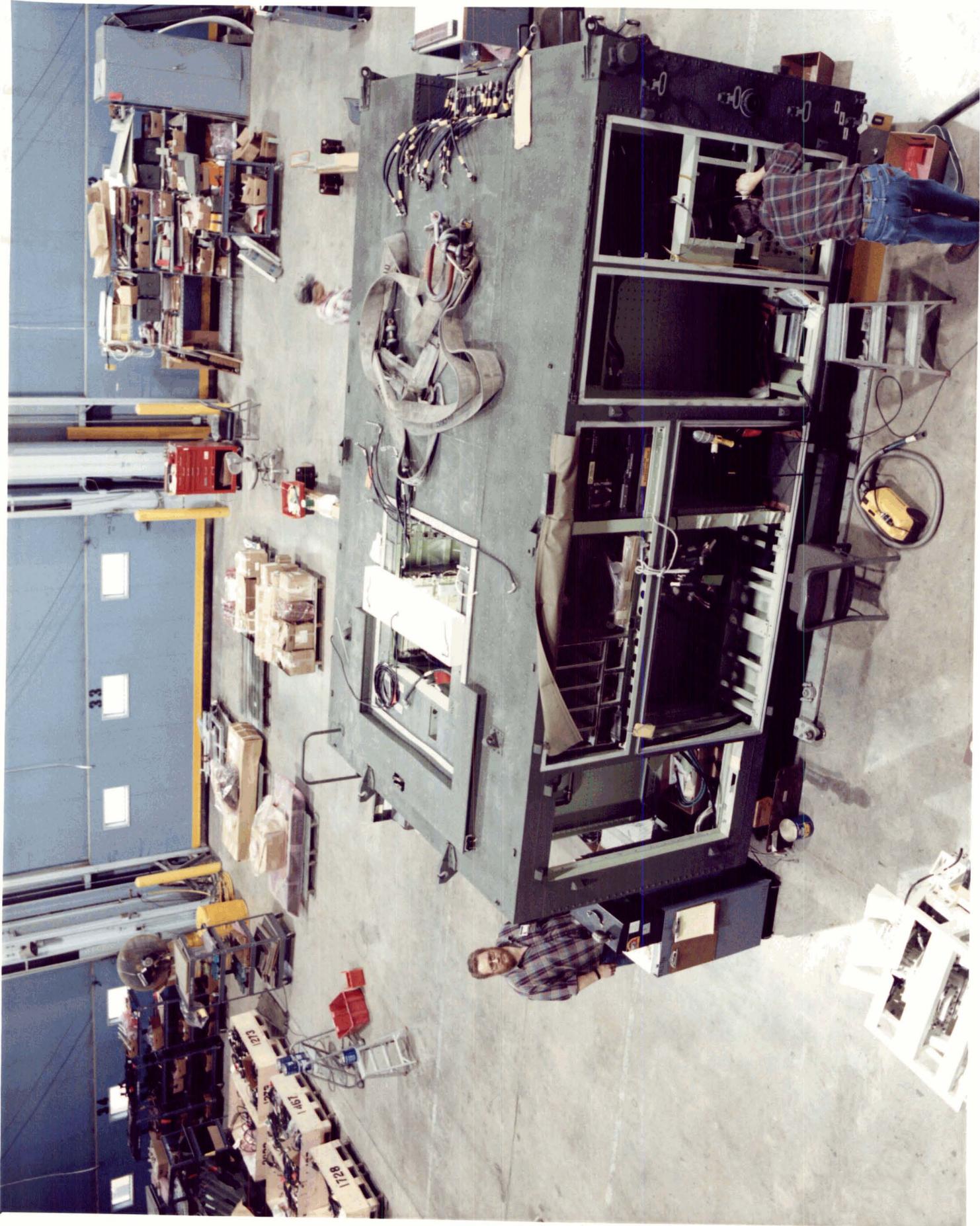
- COST TO RENOVATE - \$193,000
- COMPLETED IN APRIL '95
- MISSILES DELIVERED TO BLDG. 370 LOCATIONS VIA AUTOMATIC GUIDED VEHICLES (AGVS)
- FULL LIGHTNING PROTECTION
- 1 TON GANTRY CRANE
- LOCATION - ANNEX TO BLDG. 370



LARGE BAY AREA

REAR GARAGE

- SYSTEMS SUPPORTED:
 - * PATRIOT
 - * HAWK
 - * AVENGER
- FEATURES:
 - * 2 RAIL MOUNTED CRANES - ONE 20 TON AND ONE 10 TON. REQUIRED FOR PATRIOT AND FUTURE THEATER HIGH ALTITUDE AIR DEFENSE SYSTEM (THAAD).
 - * INDOOR NEARFIELD ANTENNA & COMPACT TEST PATTERN RANGE - REQUIRED FOR HAWK RADARS.
 - * 13 ELECTRO-MECHANICAL HI-BAY DOORS.
 - * SPECIAL TEST FIXTURES FOR PRETEST OF ELECTRO-MECHANICAL ALIGNMENTS.
 - * NEW LOW BAY ENCLOSURE FOR TEST EQUIPMENT TO SUPPORT PATRIOT RADAR TEST CONSOLES. ALL ENVIRONMENTALLY CONTROLLED.
 - * AUTOMATIC STORAGE AND RETRIEVAL SYSTEM DELIVERS SUPPLIES DIRECTLY TO WORK STATIONS.
- LOCATION - BLDG. 370







NITROGEN SUPPLY SYSTEM

- COMPLETED - 14 FEB 95.
- COST - \$ 415,443
- CAPACITY - 11,000 GALLONS
- SYSTEMS SUPPORTED
 - * SIDEWINDER
 - * PHOENIX
 - * AVENGER
 - * MAVERICK
- LOCATION - BLDG. 370



**LETTERKENNY ARMY DEPOT
CLEAN ROOM CAPABILITIES**

CLASS	SQ FT	WORKLOAD	BLDG #	YR INSTALLED
10,000	1056	TOW	426	1995
10,000	480	Dragon	370	1995
1,000	1480	Sidewinder	370	1993
10,000	480	Maverick	370	1995
100,000	2204	Paladin	13	1960
100,000	720	Paladin/TMC	350	1993
100,000	720	Paladin/TMC	350	1993
100,000	2970	Paladin	350	1960*
100,000	1300	MLRS	370	1970
100,000	1400	Phoenix	370	1994
100,000	480	LCSS	11	1996
TOTAL	13290			

* Scheduled for replacement in August 1995

DEFINITION - CLEAN ROOM

The governing regulation for clean rooms in both government and industry is Federal Standard (FED-STD)-209D which states that a clean room is "A room in which the concentration of airborne particles is controlled to specific limits." Clean rooms are classified by the maximum amount of airborne contamination allowed within the controlled area. To maintain cleanliness, high grade air filters called either High Efficiency Particulate Air (HEPA) or Ultra Low Penetration Air (ULPA) filters are used in the air supply system.

CLEAN ROOM CLASSIFICATION

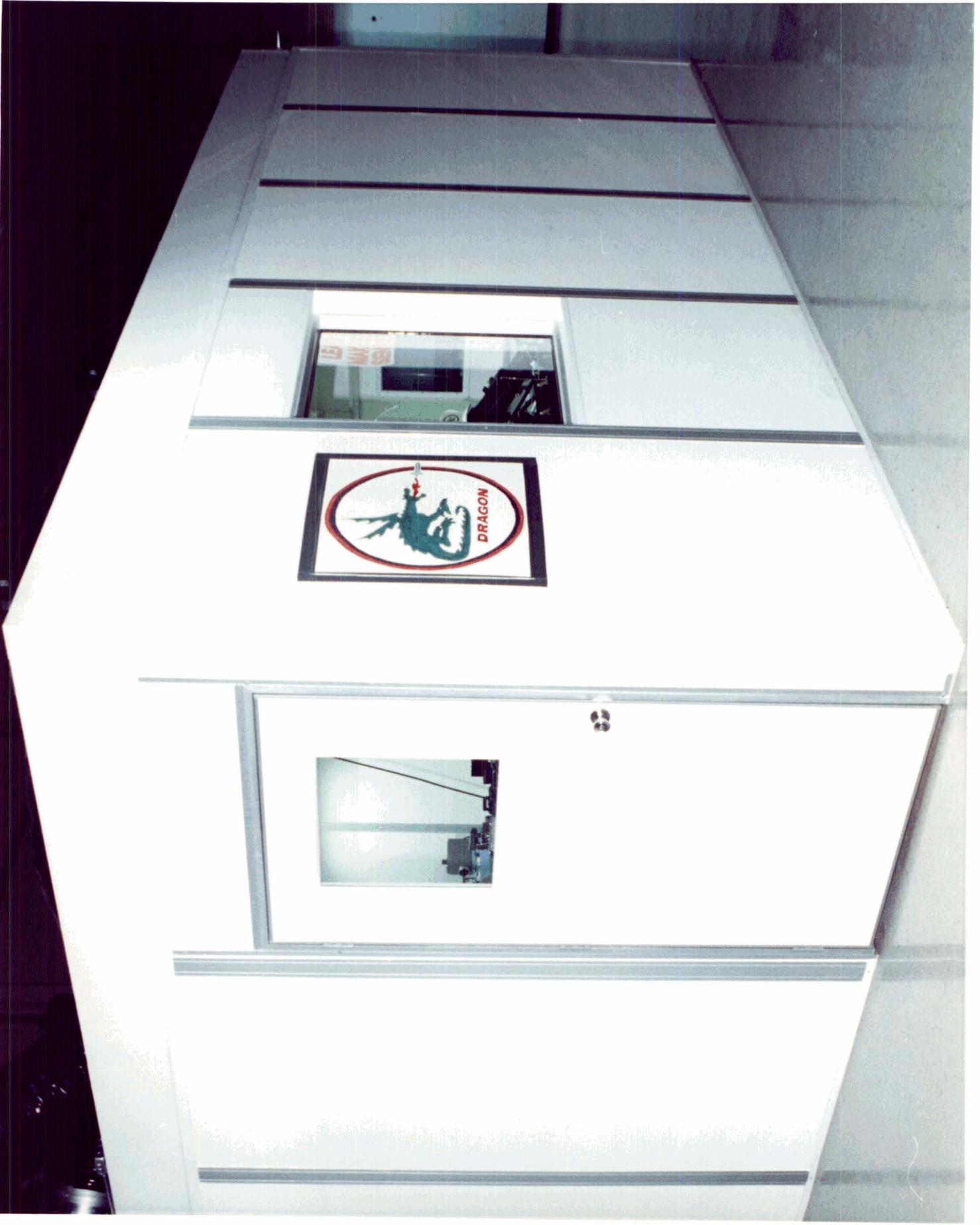
Generally a smaller "Class" number signifies a cleaner room; for example, a Class 10,000 clean room is 10 times cleaner than a Class 100,000 clean room, etc. According to FED-STD-209D, "Class" cleanliness means that, in any given cubic foot of air, there exist no more than a specific number of particles larger than 0.5 micrometers (microns) in size. Class 10,000 means no more than 10,000 particles larger than 0.5 microns exist in one cubic foot of air. FED-STD-209D also requires tighter particle controls for lower 'Classes' of rooms. In a Class 1 room it is required to control particle contamination at 0.1, 0.2, 0.3, and 0.5 micron size levels. In a Class 100,000 room, it is only required to control particle contamination at 0.5 and 5.0 micron size levels. Depending upon the application, clean rooms are commercially available in the following Classes: Class 1, Class 10, Class 100, Class 1,000, Class 10,000, and Class 100,000.

COMMON EXAMPLE OF A CLEAN ROOM TECHNOLOGY

A residential example of 'clean room - high grade filter' technology is the need by some homeowners to clean the air in their homes because of allergies or sensitivity to pollutants such as pollen, fungi spores, smoke, etc. Regularly HEPA grade filters are used to remove the unwanted irritant. These HEPA filters are usually incorporated into home air conditioning systems but are available as table top units under such trade names as "Pollelnex".

DIFFERENCES BETWEEN COMMERCIAL & RESIDENTIAL APPLICATIONS

Significant differences between the residential and commercial environments are that: 1) In the commercial application, personnel/material access is controlled/limited much more tightly than in a residential environment, 2) in the commercial application, the circulating fan which supplies the filtered air typically runs continuously so that the contamination level is closely controlled, and 3) in the commercial environment the 'clean room' facility is constructed of materials which do not easily accumulate dust/contamination and are easy to clean/maintain. Also, in some clean rooms applications, the humidity and temperature conditions are required to be controlled within specified parameters.



BLDG. 370 LARGE MEZZANINE

- COST TO RENOVATE - \$1.733 MILLION
- NEW SQUARE FT. AVAILABLE - 25,000
- SYSTEMS SUPPORTED
 - * HAWK (ARMY & MARINE CORPS)
 - * PATRIOT
 - * AVENGER
 - * MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)
 - * MAVERICK
- 4 1/4 TON CRANES INSTALLED TO SUPPORT MAVERICK
- CLASS 10,000 CLEAN ROOM FOR MAVERICK
- 2 FLOORS OF ENVIRONMENTALLY CONTROLLED WORK AREA







LIGHTNING PROTECTION SYSTEM

- **REQUIREMENT FOR CLASS 4 EXPLOSIVES**
- **COMPLETED IN MAY '95**
- **COST - \$231,829.00**
- **LOCATION - BLDG. 370**





HYSTER
357
1100
12000
EE



CABLE & WIRE HARNESS FACILITY

- MISSION - FABRICATE, REPAIR, AND TEST CABLES AND WIRING FOR ALL ASSIGNED SYSTEMS AT LEAD AND OTHER DOD SPECIAL REQUIREMENTS.
- COST TO RENOVATE - \$ 904,592
- SQUARE FEET - 13,160
- COMPLETED IN MAY '95
- ENVIRONMENTALLY CONTROLLED
- LOCATION - BLDG. 12



TOW MISSILE FACILITY

- MISSION - DEPOT MAINT. ON GROUND SUPPORT EQUIPMENT
- COST TO RENOVATE - \$ 664,000
- SQUARE FEET - 18,928
- SYSTEMS SUPPORTED
 - * TOW2
 - * TOW COBRA
 - * TOW BRADLEY FIGHTING VEHICLE
 - * HELLFIRE
- CLASS 10,000 CLEAN ROOM INSTALLED IN FEB. '95
- COMPLETED IN FEB. '95
- LOCATION - BLDG. 426

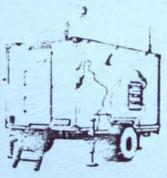




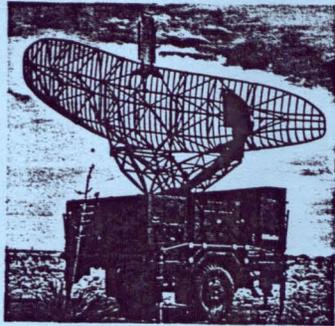
RADAR TEST SITE

- 28 ACRE FACILITY
- SUPPORTS:
 - * ARMY & MARINE CORPS HAWK
 - * ARMY PATRIOT
 - * FOREIGN MILITARY SALES CUSTOMERS (FMS)
- CONTROLLED ACCESS, FREE SPACE RADIATION ZONE, ACTUAL ON-AIR OPERATION AND TESTING.
- MISSION: SYSTEM INTEGRATION AND CHECK-OUT (SICO)
- ALLOWS COMPLETE ANALYSIS OF OPERATIONAL PATRIOT & HAWK RADARS AND SIMULATION OF TACTICAL CONDITIONS.
- ADDITIONAL ACREAGE IS AVAILABLE FOR FUTURE SYSTEM UPGRADES.

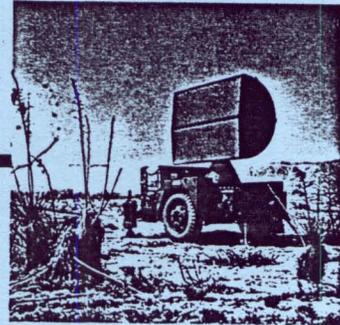




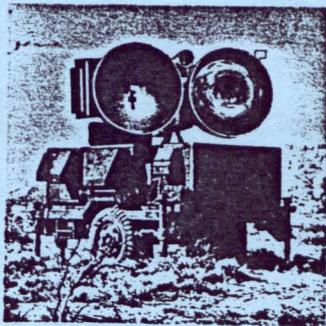
U.S. Marine Corps Configuration



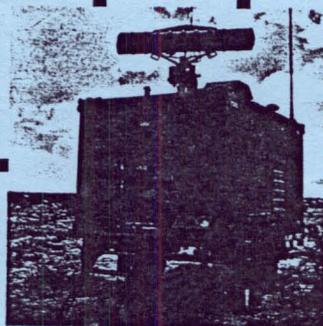
Pulse Acquisition Radar



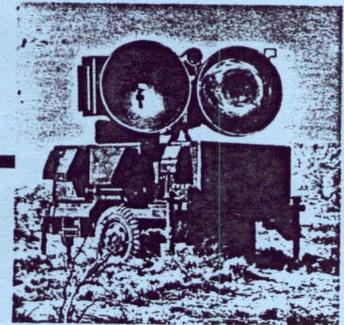
CW Acquisition Radar



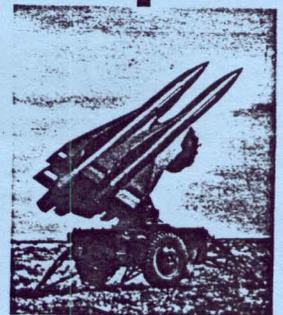
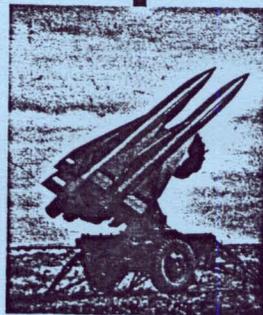
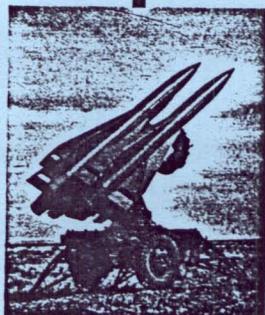
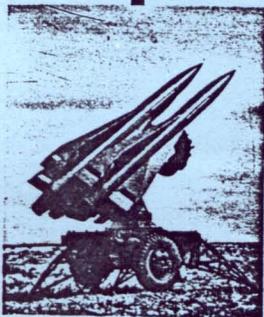
High Power Illuminator



Battery Command Post



High Power Illuminator

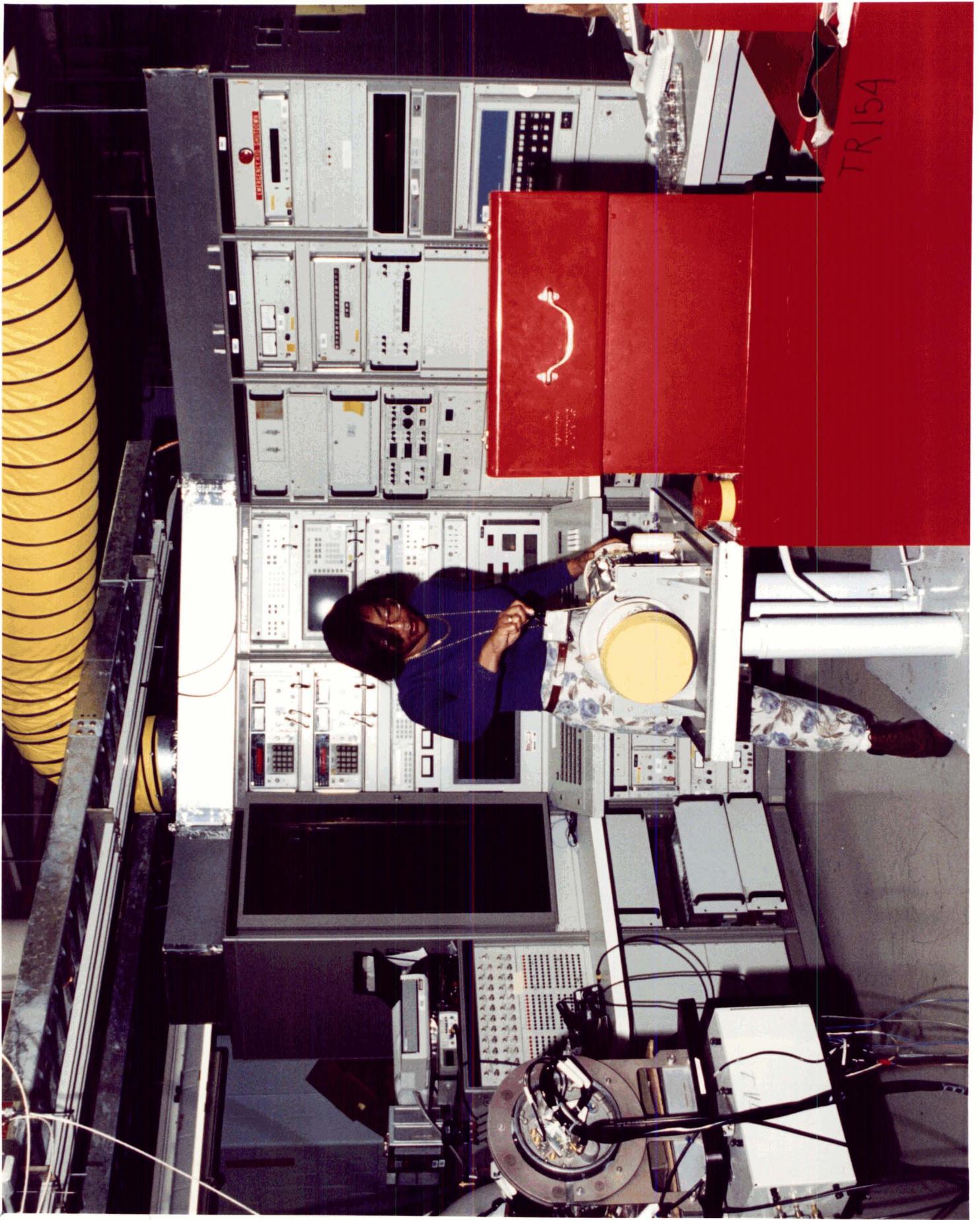


Missiles and Launchers

MISSILE MAINTENANCE IN ACTION

- A SPARROW MISSILE TECHNICIAN ADJUSTING A GUIDANCE SECTION
- A TOW SYSTEM TECHNICIAN ALIGNS A CIRCUIT CARD.
- A CIRCUIT CARD REPAIR EXPERT REMOVING AN INTEGRATED CIRCUIT FROM A PATRIOT DIGITAL CIRCUIT CARD.
- COMPLETE PACKAGES.





TR154





**LETTERKENNY
ON LINE
AND
PRODUCING**

**A
ONE-STOP-SHOP
FOR**

DOD TACTICAL MISSILE MAINTENANCE