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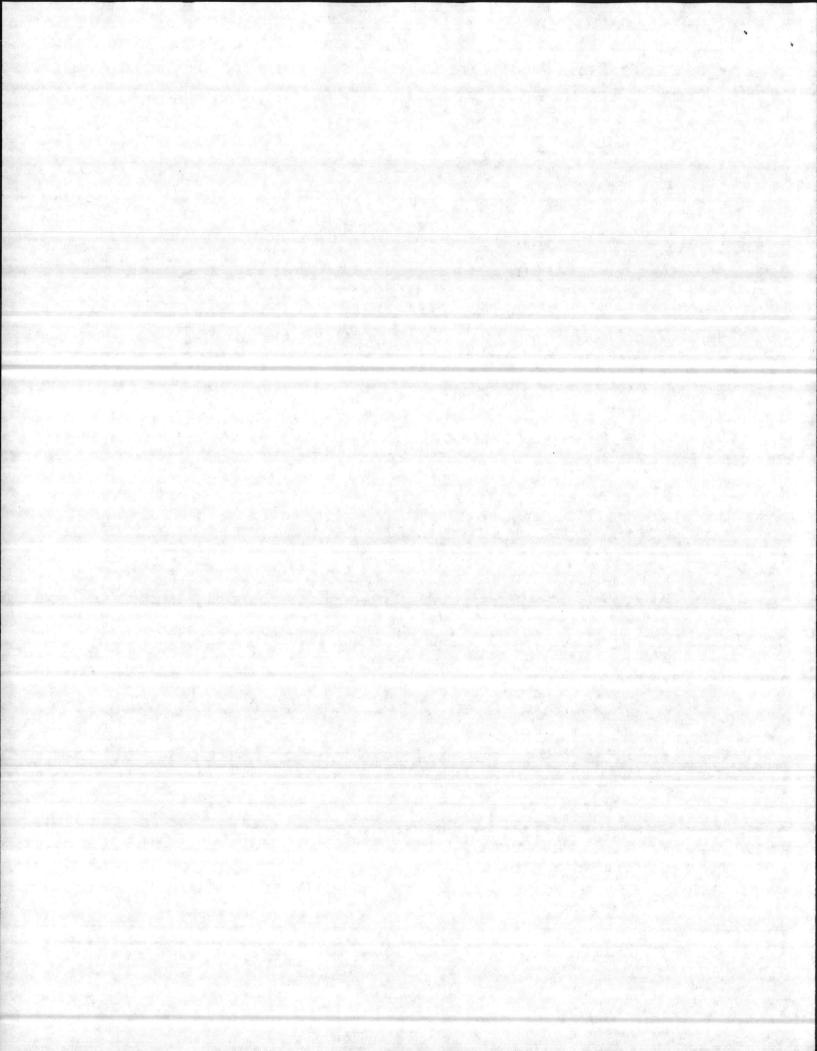
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from: Comment of the Carolina * Comment of the Carolina Comment of the Carolin

Subj: Military Construction (roject P-10), / ration Armament Shop

- Ref: (a) Marine Corps Air Coss EntA: The Base, Camp Lejeune Logistic Suprort Organism It 7, 1977 with revisions
- Encl: (1) MAG-29 ltr 8:FOW:rrg 4720 of 23 Jun 1933 with Enclosures (1) thru (5)
- 1. Enclosure (1) is forwarded for your assistance in development of a Military Construction Project in accordance with the reference.
- 2. The following information will be required:
 - a. Cost Estimate
 - b. Utility Loading
 - c. Effect of Project on other resource
 - d. Comparative analysis of heating systems (steam versus heat pump)
- 3. It is requested that the information he provided no later than 1 May 1984.
- 4. Point of contact for further information is Mr. F. E. Acosta, MCAS (H), New River, S-4, telephone 451-6518/6506.

G. W. RUSSELL, JR. By direction



UNITED STATES MARINE CORPS
Marine Aircraft Group 29
2d Marine Aircraft Wing, FMF, Atlantic
Marine Corps Air Station, (Helicopter)
New River, Jackson Allic, N. C. 28545

8:FOW:rrg 4720 21 June 1983

From: Ordnance Officer

To: Commanding Officer(Attn: S-4)
Via: Aircraft Maintenance Officer

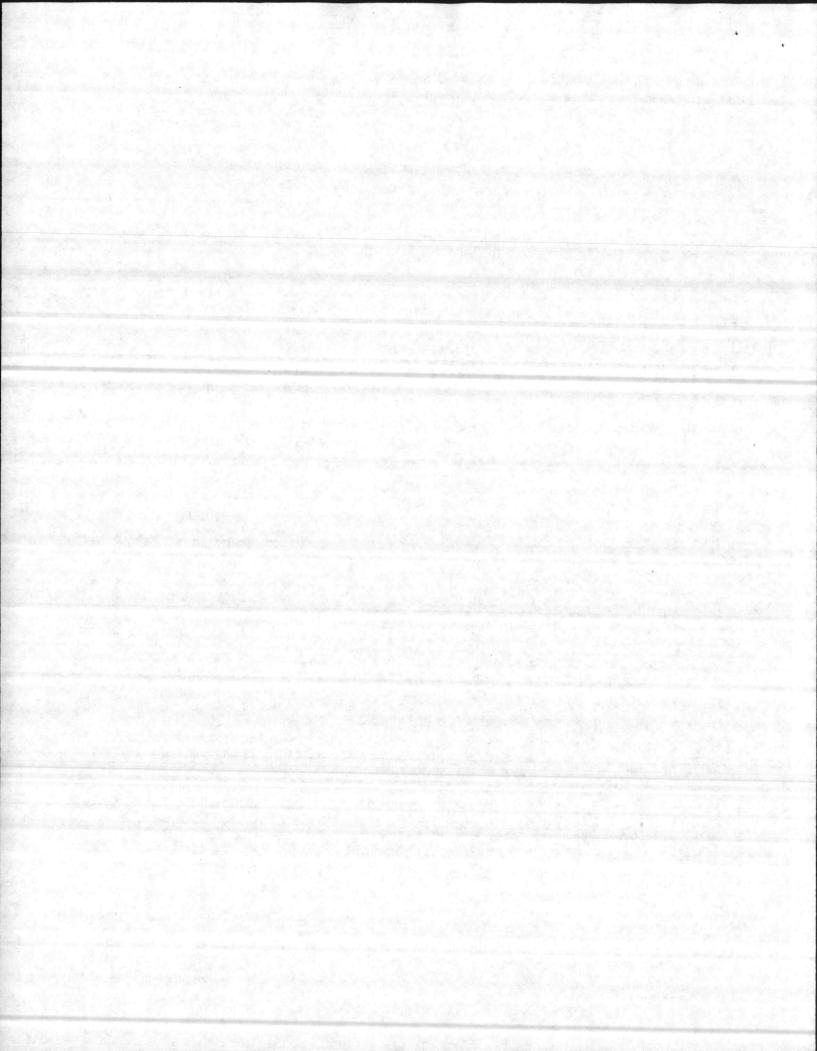
Subj: Aviation Armament Shop

Ref:

- (a) OPNAVINST 4790.2
- (b) OPNAVINST 5530.13
- (c) COMNAVAIRLANT INST 8382.4

Encl:

- (1) Drawing of Aviation Armament Shop Building
- (2) Drawing of Small Arms Storage Area/Tool Control Area
- (3) Drawing of Turret and Bomb Rack Maintenance Area, Turret Test and Machinery Room
- (4) Drawing of Gun Pod Maintenance and Storage Area
- (5) Explanation of notes contained in Enclosures (1) through (4)
- 1. In accordance with the provisions of references (a) and (b) construction of an Aviation Armament Shop is required which will provide adequate security and maintenance spaces for armament equipment held and maintained by MAG-29 Ordnance.
- 2. Spaces constructed must meet the security requirements of reference. (b) for storage of Arms which are classified as Security Risk Category II. Arms held in this command which fall in this category are .50 cal. Machine Guns, M-60 Machine Guns, GAU-2B Automatic Weapon, GPU-2/A Gun Pods, TOW Missle Launchers, M197 20mm Machine Guns with Gun Turrets. "
- 3. The MAG-29 Armory spaces are inadequate to provide storage for the Aviation Weapons systems which require security provisions stipulated by reference (b) not to mention the lack of maintenance space which is required to maintain these weapons in accordance with reference (a) on a day to day basis.
- 4. Reference (c) requires that all Group Armament Launching Equipment be maintained in a Armament Equipment Pool controlled by the Ordnance Officer. Construction of these facilities would consolidate all of the high risk Aviation Weapons in one location for storage and maintenance.

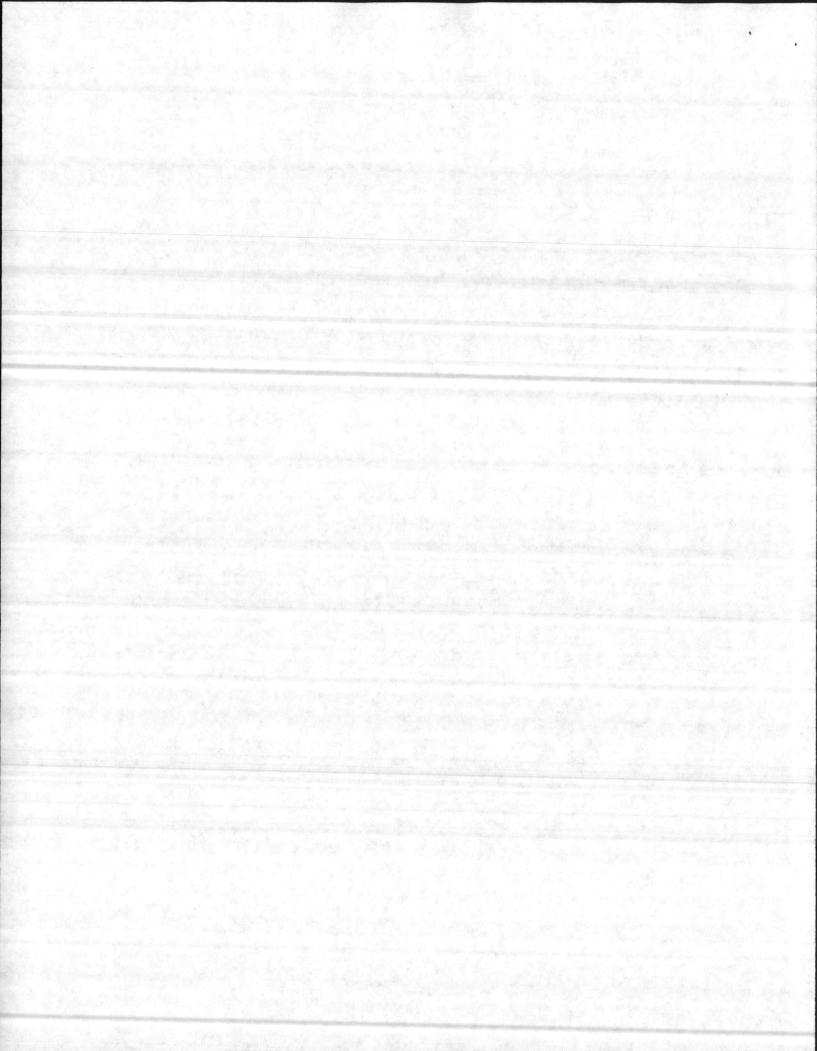


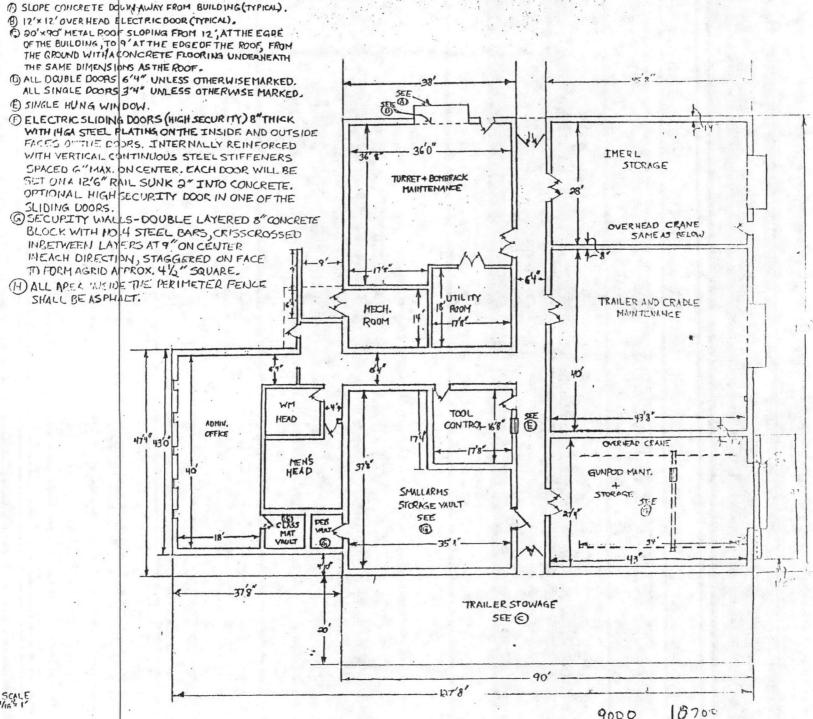
5. This project will provide 2184 sq.ft. of high security storage space for the following items:

(a) NY 218 .50 cal. Machine Guns	175	ea.
(15) Machine Guns	98	ea.
- 1/A 7.62 Mini-Gur	3.4	(r.
_)min Gun	ſ,	22.
(c) Sun Jod GPU-2/A	11	ea.
(Missle Launcher	48	ea.

- 6. Maintenance, Storage and Office spaces, to provide Intermediate Maintenance Support to Squadrons of MAG-Twenty Nine will occupy 8516 sq.ft. of this building. Total space requirements are 10,700 sq.ft. as illustrated in enclosure (1) and explained in enclosures (2) through (5).
- Currently the MAG-29 Aviation Armament Shop utilizes 2,220 sq.ft. to provide IMA Support. Due to inadequate Maintenance/Storage spaces, the Ordnance Officer can not physically control the Armament Equipment Pool, nor can NRFI Material be maintained in the Ordnance section while awaiting Maintenance. The above mentioned inadequacies also precludes simultaneous maintenance functions, Turret repair, Gun Pod repair, etc.
- The ultimate impact of inadequate facilities are as follows:
 - (a) A security compromise on storage of sensitive weapons systems
 - Decrease in Squadron Readiness due to backlog of Maintenance to be performed which cannot be performed simultaneously with other Maintenance functions.
 - Possible loss of expensive Armament Equipment Pool Items due to lack of positive control.

7. D. WILLTAMO



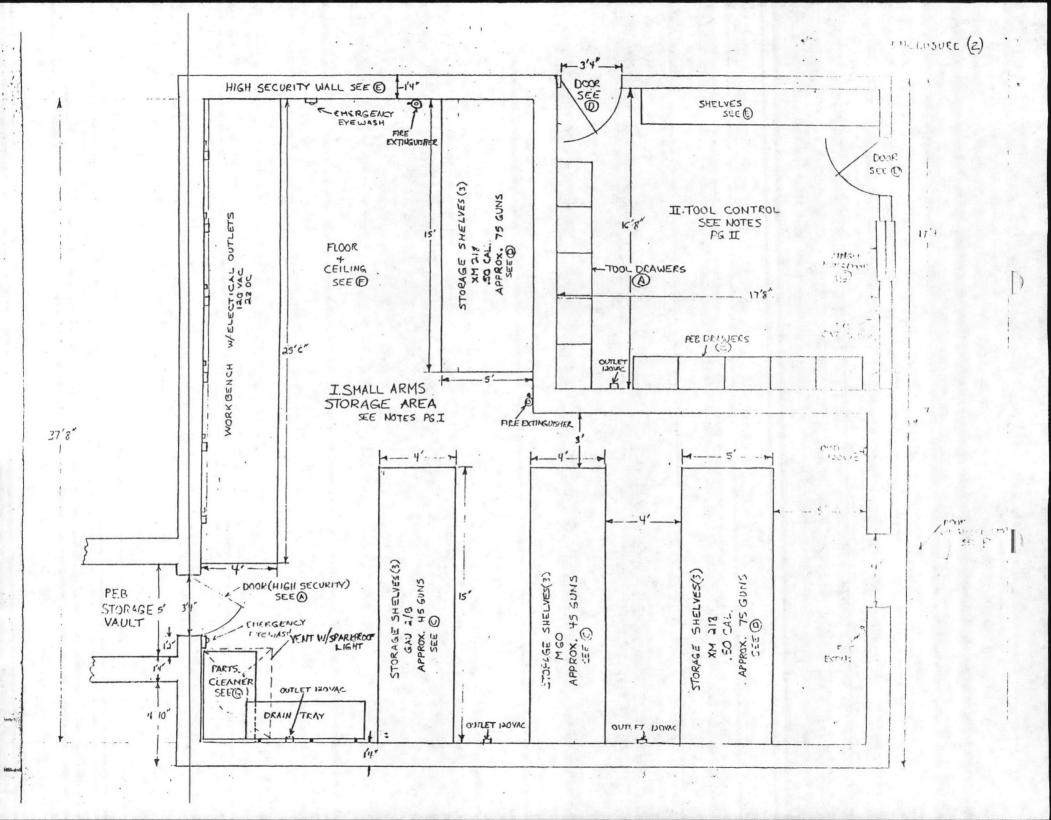


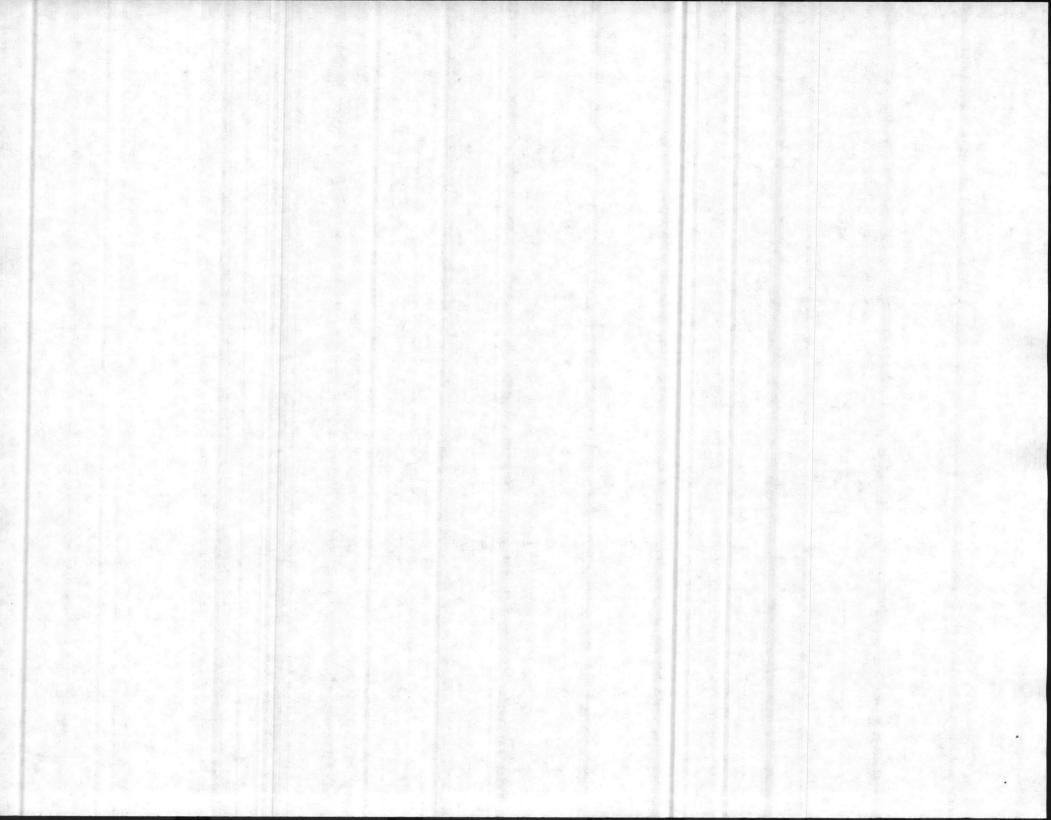
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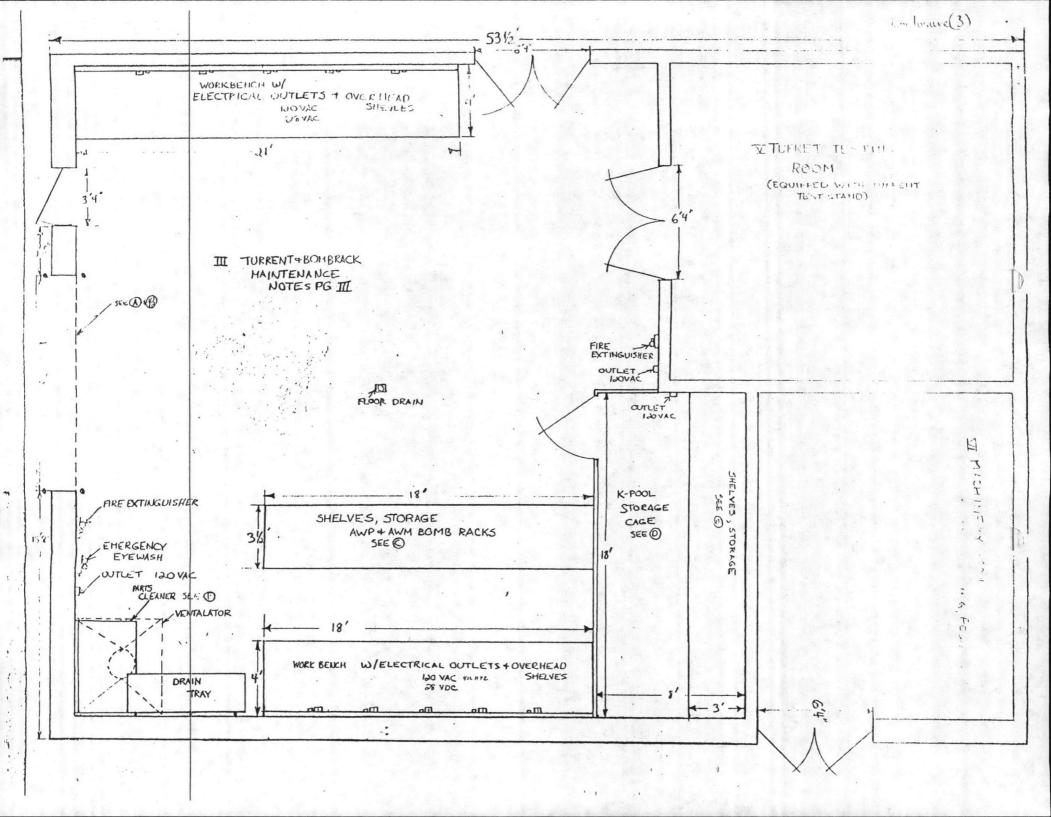
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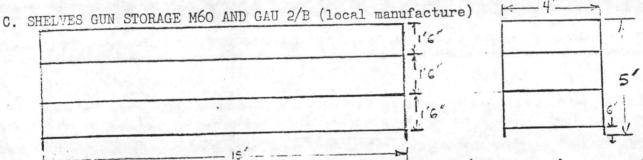


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HIGH SECURITY WALLS SEE F OVER HEAD CRANE DON ARC MURKBENCH W/ELECTRICAL OUTLETS 30' 1.001 HIGH I THE GUNPOD MAINTENANCE SEE (C) Y-SECURITY DOCES SEEO AND STORAGE 10 SEE NOTE PG IN 274" 20' PUSIBLE EWRY DODE WORKBENCH W/ELECTRICAL OUTLETS
IAOVAC "
28 YDC 9'4' 37" PRE T (190 VAC)

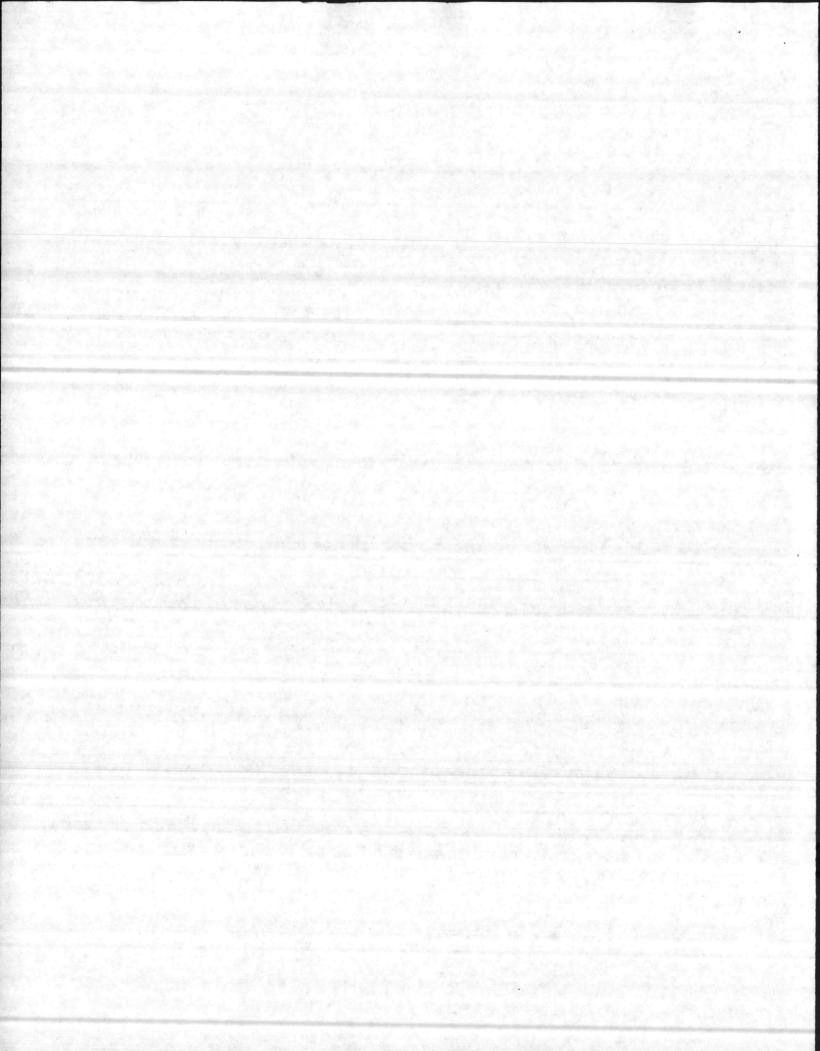
I. CMALL ARMS STORAGE AREA

- A. DOOR(HIGH SECURITY) WITH HASP AND PADLOCK(KEYED OR COMBINATION). L.3'4" x H.6' x W.1'9" INDUSTRIAL TYPE MIN. 14 GA. SMIN PLATE, INTERNALLY REINFORCED WITH VERTICAL CONTINUOUS STEEL STIFFENERS SPACED SIX INCHES ON CENTER MAX.
- B. DOOR CLASS 5 GSA APPROVED STEEL VAULT DOOR(three position dial type combination lock(changeable) also equipped with inside locking device.)



- D. SHELVES GUN STORAGE XM218 (.50 cal), (local manufacture) same as above except5' wide.
- E. DOUBLE LAYERED 8" CONCRETE BLOCK WITH NO.4 STEEL BARS CRISSCROSSED IN BETWEEN LAYERS AT 9" on center in each direction, staggered on face to form a grid approx. 4½" square.
- F. FLOORING- MINIMUM 6" CONCRETE CONSTRUCTION REINFORCED WITH6x6 OR W4xW4 MESH OR EQUIVALENT BARS.

 CEILING- SLAB CONSTRUCTION WITH REINFORCING BAR SPACING THAT FORMS A GRID WHERE THE AREA OF ANY OPENING DOES NOT EXCEED 96 SQ. IN. USING NO. 4 BARS OR LARGER.
- G. ULTRASONIC PARTS CLEANER (special manufacturer) L3'xW5'xH3' with a 6'6"x2' DRAIN TRAY OVERLAPPING THE EDGE OF THE CLEANER.



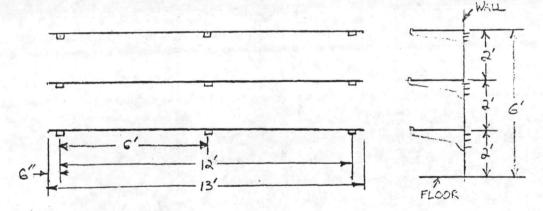
II. TOOL CONTROL AREA

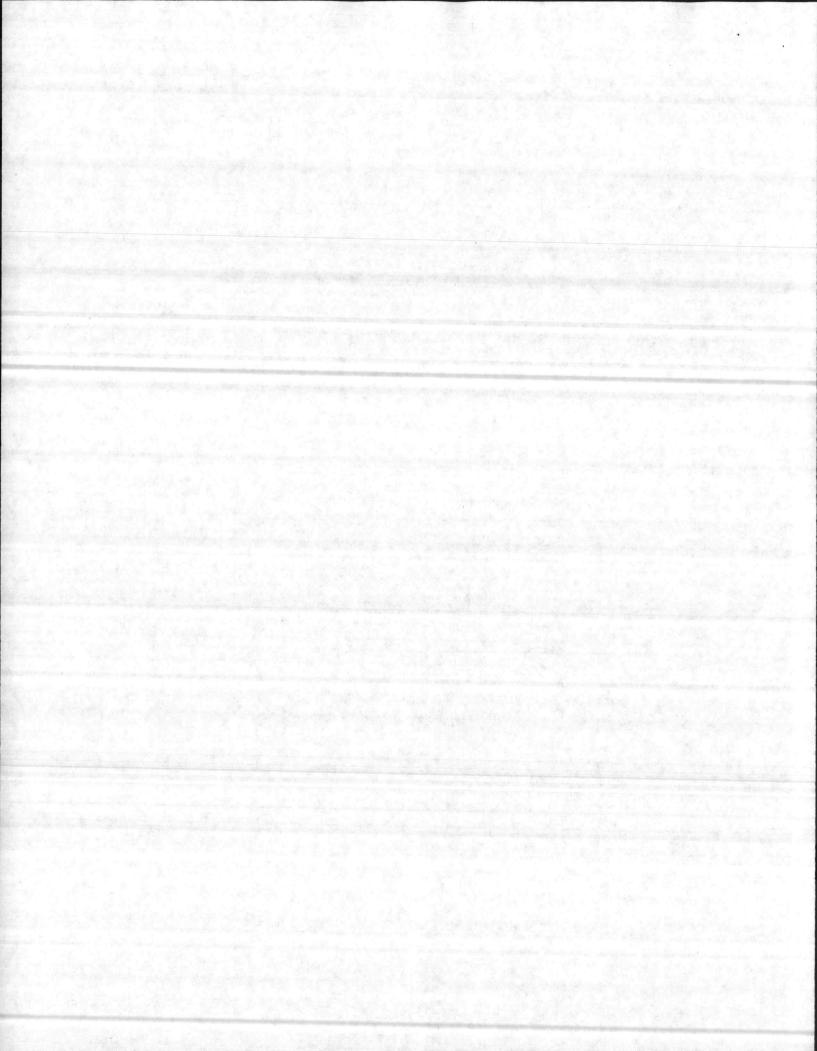
i. The DRUTKO- (come as above).

- C. SINGLE HUNG WINDOW, 3'10" above the ground, L3'4" x H.3'.

 Roll up metal door (aluminum) covering opening.

 FSNNSN-
- D. METAL DOOR, $3'4" \times 17/8" \times 7'$ with dead bolt lockand keyed door handle lock
- E. SHELVES- equipment storage L.13' xW .2' xH.6'.





TROM FILL

121 -101 TOTRIC INC.

C) C'HT'LL, MARIT, TAX IMP &AUX 2011

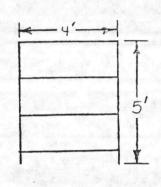
15'

16'

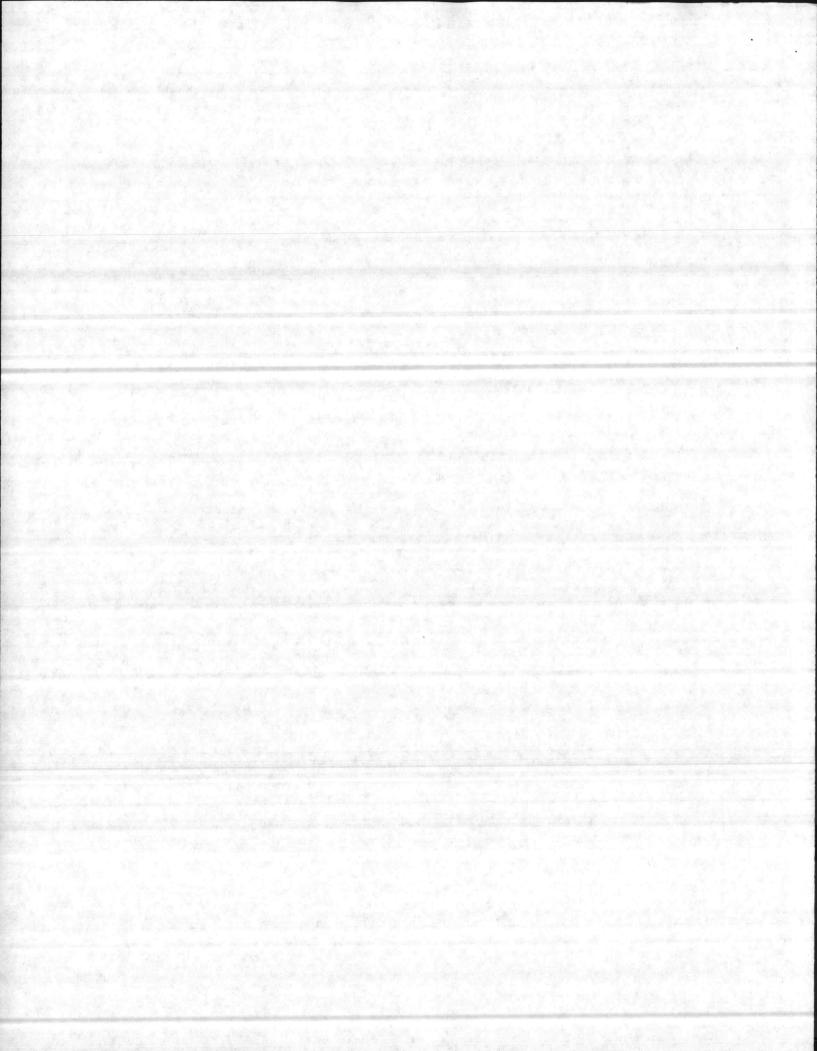
7'6"

7'6"

7'6"

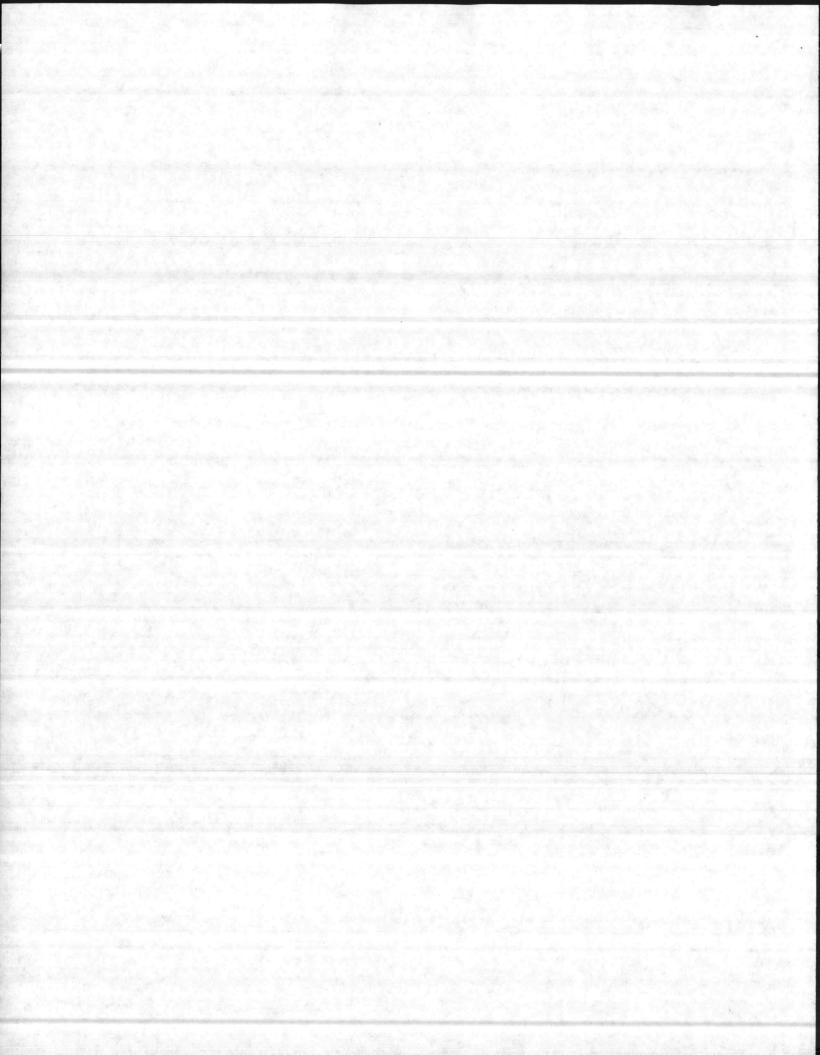


- D) SECURITY CAGE 18' x18' WITH STORAGE SHELVES MADE FROM WIRE MESH.
- E) SHELVES, STORAGE (3) 18' x 3' MADE FROM WOOD OR STEEL MOUNTED ON THE WALL SPACED 2' APART.
- F) ULTRASONIC PARTS CLEANER (special manufecture) L3'x45'xH3' WITH A 6'6" x2' DRAIN TRAY OVERLAPPING THE FIGE OF THE CLEANER.



THE JOY OF THE SLIDING DOORS.

- C) HIGH SECURITY DOOR (GCA CLASS 5 AT COTFUL VAULT DOOR)
 THREE POSITION DIAL TYPE CHANGABLE OF SELECTION LOCK WITH
 INSIDE LOCKING DEVICE.
- D) ULTRASONIC PARTS CLEANER (special manufacture) 5'x 4'x 4'.
- E) GUNPOD TEST STAND (6'x 6'x 5') WITH BOUB RACK CAPABLE OF SUPPORTING THE GPU-2A DURING FLECTRICAL TESTING. (local manufacture).
- F) DOUBLE LAYERED 8' CONCRETE BLOCK WITH NO. 4 STEEL BARS CRISSCROSSED IN BETWEEN LAYERS AT 9" ON CENTER IN EACH DIRECTION. STAGGERED ON FACE TO FORM A GRID APPROX. $4\frac{1}{2}$ " SQUARE.



I. //

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1,ICHTICO- ATTILL AN PLUOPISCENT 134

II. W. M. HEAD

POWER- ELECTRICAL OUTLETS (3) (2 CM MIRROR LIGHTS)

120 VAC 60 CIS

- LIGHTING

120 VAC 60 050

LIGHTING- OVERHEAD FLUORESCENT LIGHTS.

III. MENS HEAD

POWER- ELECTRICAL OUTLETS (4) (3 ON MIRROR LIGHTS)

120 VAC 60 CPS

- LIGHTING

120 VAC 60 CPS

LIGHTING- OVERHEAD FLUORESCENT LIGHTS.

- MIRROR FLUORESCENT LIGHTS (3)

WITH ELECTRIC OUTLETS.

IV. CLASS MAT. VAULT

POWER- LIGHTING

120 VAC 60 CPS

LIGHTING- OVERHEAD FLUORESCENT LIGHTS

120 VAC 60 CPS

V. TURRET & BOMBRACK MAINTENANCE

POWER- ELECTRICAL OUTLETS(3)

120 VAC 60 CPS

LIGHTING- 120 VAC 60 CPS

TEST BENCHES (2)

5 ea. 120 VAC 60 CPS

28 VDC

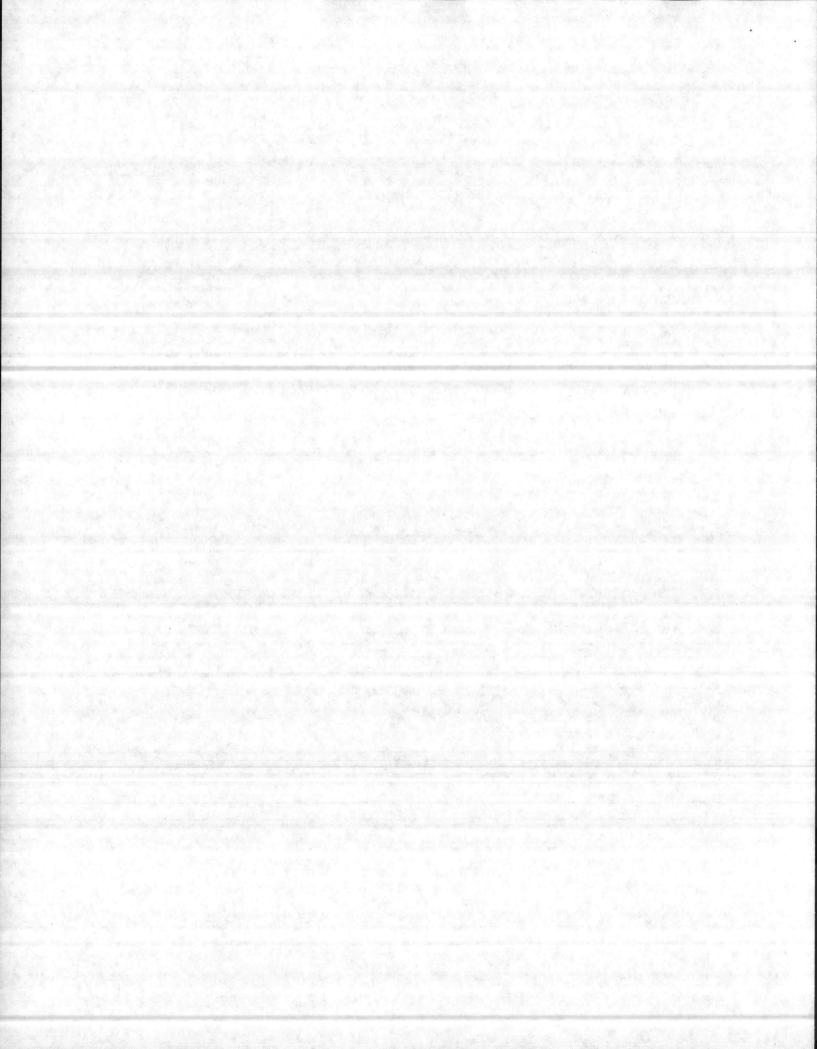
120 VAC 400 CPS

LIGHTING- OVERHEAD FLUORESCENT LIGHTS.

120 VAC 60 CPS

- SPARK PROOF LIGHTING FOR PARTS CLEANER

120 VAC 60 CPS



TING ROOM

LECTRICAL OUTLIT

120 VAC 60 CPS

- DOT UNIT (1) RESELL

120 VAC 60 CPS

120 VAC 60 CPS

- TEST BENCHES (1)

120 VAC 60 CPS

120 VAC 400 CPS

28 VBC

LIGHTING- OVERHEAD FLUORESCENCE LEGATES

120 VAC 60 CPS

SPARK PROOF LIGHT FOR PARTS CLEANER

120 VAC 60 CPS

VII. MACHINERY ROOM

POWER- ELECTRICAL OUTLETS (2)

120 VAC 60 CPS

120 VAC 400 CPS SUPPLY SYSTEM

440 VAC 60 CPS 3ph

-MAIN POWER SUPPLY SYSTEM

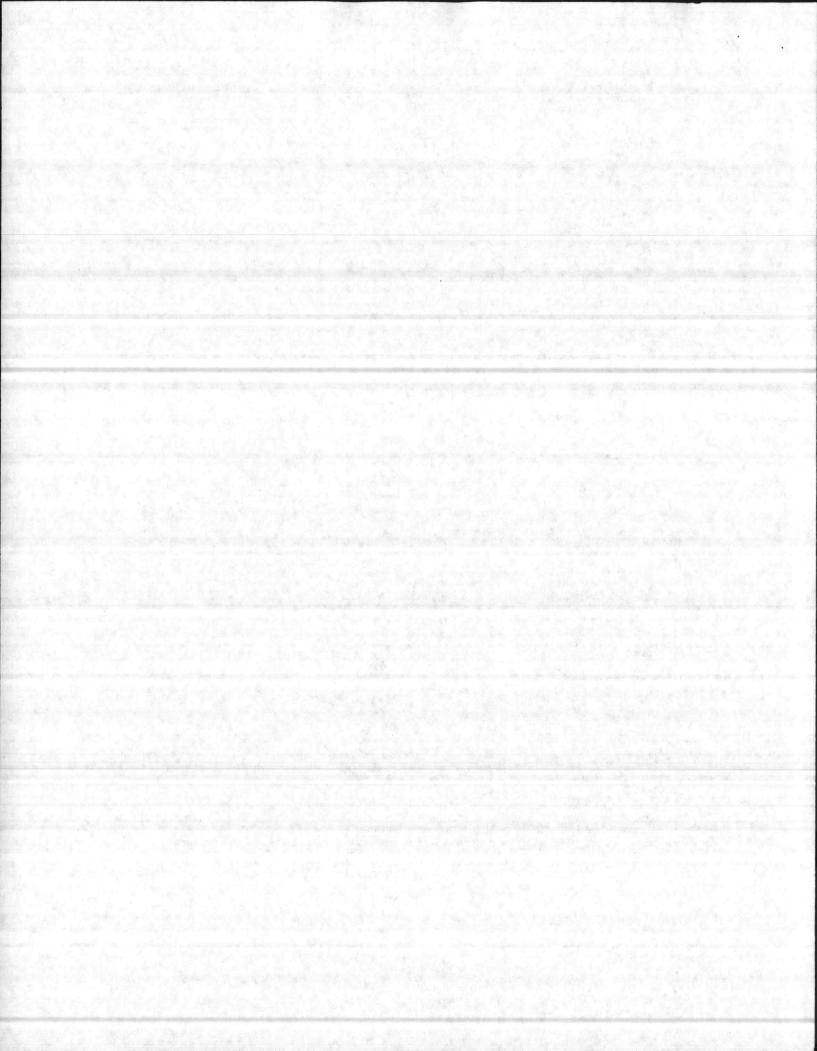
220 VAC 60 CPS 3ph

LIGHTING- OVERHEAD FLUORESCENT LIGHTS
120 VAC 60 CPS

VIII. SMALL ARMS STORAGE VAULT
POWER- ELECTRICAL OUTLETS (4)
120 VAC 60 CPS
- TEST BENCHES (1)
120 VAC 60 CPS
120 VAC 400 CPS

28 VDC LIGHTING- OVERHEAD FLUORESCENT LIGHTS 120 VAC 60 CPS

LIGHTING- SPARK PROOF FOR PARTS CLEANER 120VAC 60 CPS



IX. III STORAGI. POMER- LIGHTING- COLOR AD FLOOR 120 7/0 (0 1.1)

X. IMRL STORAGE

POWER- ELECTRICAL OUTLETS (4)

120 VAC 60 CPS

- LIGHTING, OVERHEAD FLUORESCENT LIGHTS 120 VAC 60 CPS
- POMER, OVERHEAD CRANE 200 VAC 60 CPS 3ph

XI. TOOL CONTROL ROOM

POWER- ELECTRICAL OUTLETS (2) 120 VAC 60 CPS LIGHTING- OVERHEAD FLUORESCENT LIGHTS 120 VAC 60 CPS

XII. TRAILER & CRADLE MAINTENANCE POWER- ELECTRICAL OUTLETS (7)

120 VAC 60 CPS ELECTRICAL OUTLETS (2) 220 VAC 60 CPS 3ph

LIGHTING- OVERHEAD FLUORESCENT LIGHTS

120 VAC 60 CPS

SPARK PROOF LIGHTING FOR PARTS CLEANER 120 VAC 60 CPS

XIII. GUNPOD MAINTENANCE AREA

POWER- ELECTRICAL OUTLETS (4)

120 VAC 60 CPS TEST BENCHES (2) 120 VAC 60 CPS 120 VAC 400 CPS

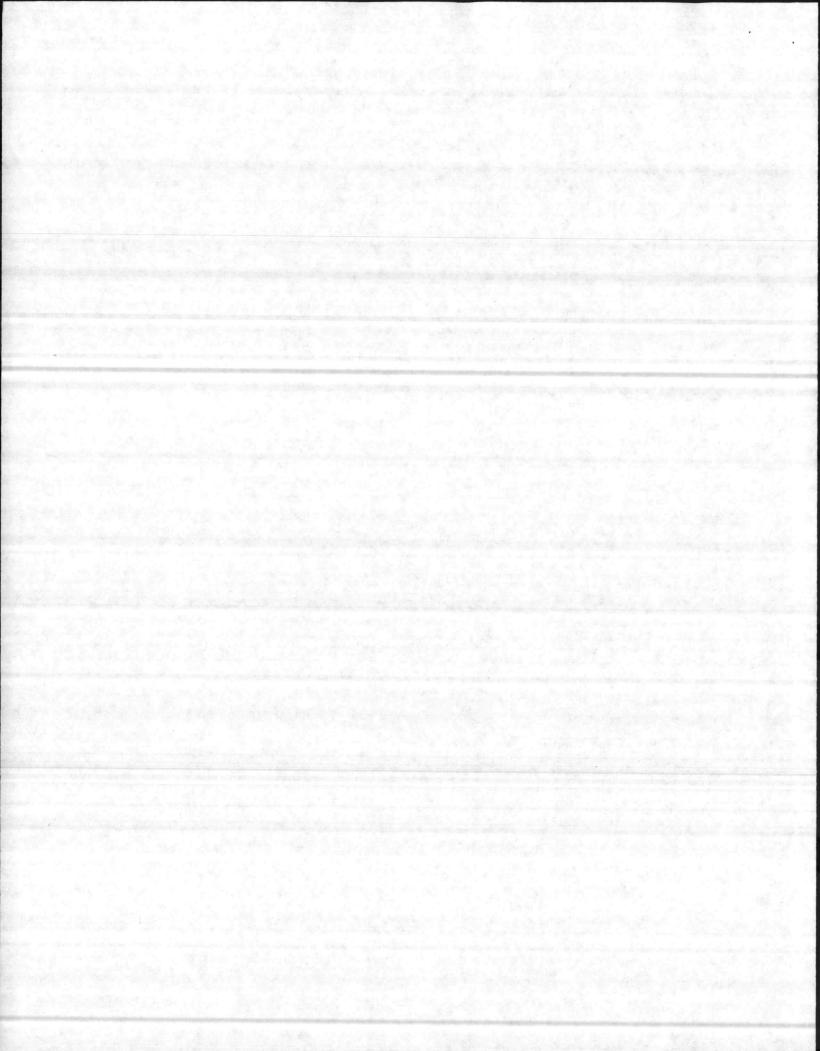
28 VDC

LIGHTING- OVERHEAD FLUORESCENT LIGHTS

120 VAC 60 CPS

SPARK PROOF LIGHTING FOR PARTS CLEANER

120 VAC 60 CPS



ZIV. CORPILLI

TOTAL CALL CALLS

TOTAL CALLS

XV. TRAILER STOMAGE

POWER- FLECTRICAL OUTLETO (3)

120 VAC 60 CPS

FLECTRICAL OUTLETS (2)

220 VAC 60 CPS 351

LIGHTING- OVERHEAD FLUORESCENT LIGHTS

120 VAC 60 CPS

AIR LINE REQUIREMENTS

COMPRESSOR IN MACHINERY ROOM SUPPLYING LINES TO SMALL ARMS STORAGE VAULT, TURRET & BOMBRACK MAINTENANCE AREA, TRAILER & CRADLE MAINTENANCE AREA, AND GUNPOD MAINTENANCE AREA. 0-100 PSI

EMERGENCY LIGHTS

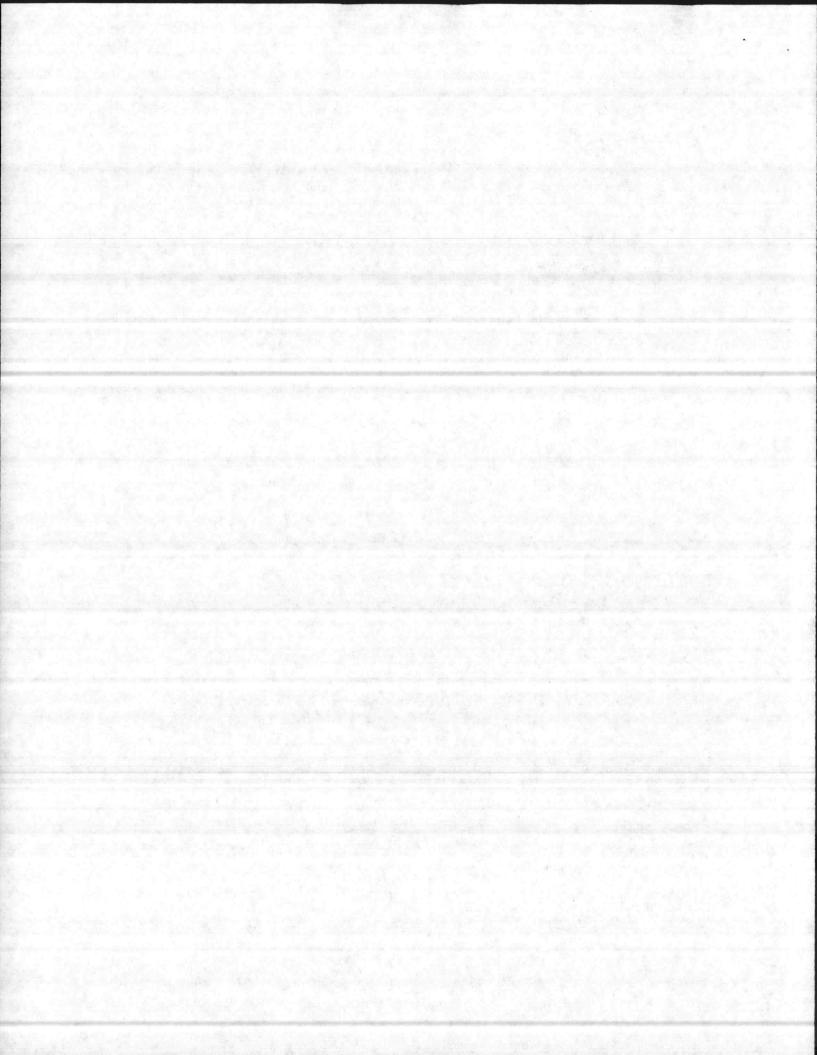
TWO IN EACH SHOP AREA, EXCEPT FOR AREAS SMALLER THAN 20' \times 20' WHICH WILL HAVE 1 PER AREA. THREE LIGHTS IN CORRIDORS.

EXIT LIGHTS (3)

ON THE THREE EXITS IN THE CORRIDORS.

FLOOD LIGHTS

SPACED SO AS ALL CORNERS OF BUILDING CAN BE SEEN FROM A DISTANCE.



INTRUCION DETECTION DESTEN

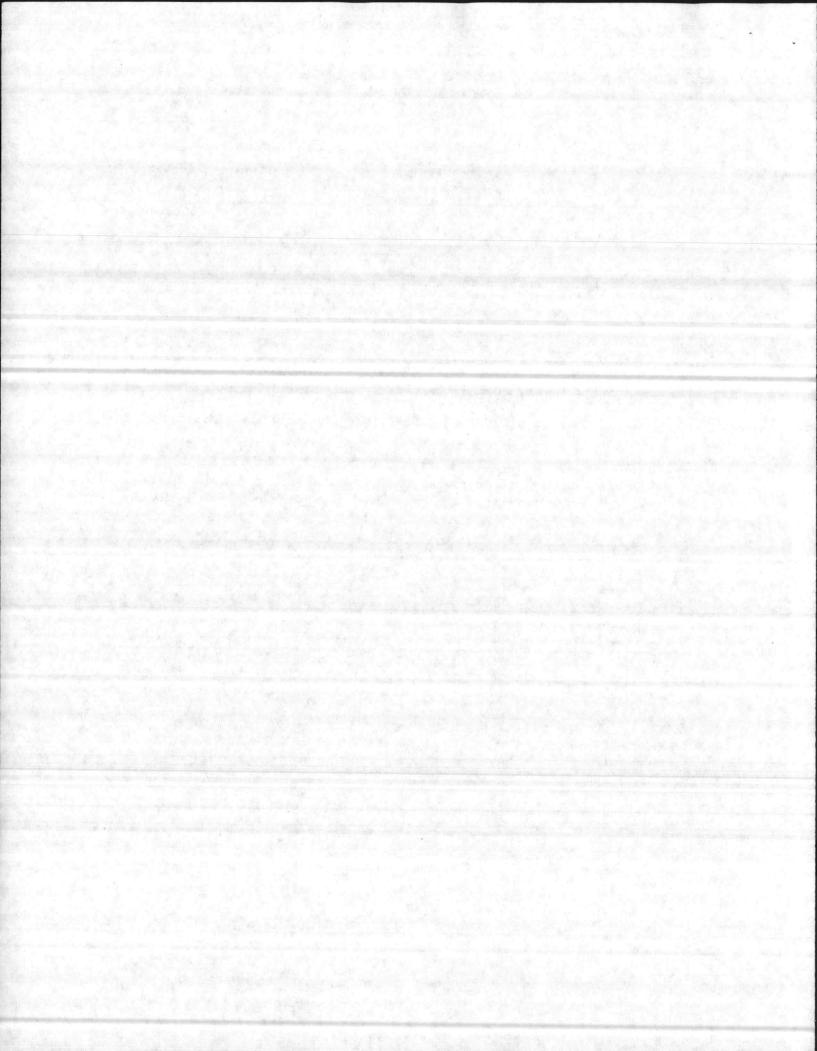
FICATIONS

PALANCED MAG

LOCKS (DOMETR-

- F. CAPACITANCE THAT IN THAT IS IN THE SECOND TO THE WINDOWS, DOORS AND WALLS.
- C. MOTION DETECTORS SHALL BE INCORPERATED INTO THE FLOOR AND THE ROOF OF THE BUILDING.
- D. VIBRATION DESPCTORO CHALL BE INCLUMENTEDINTO THE WALLS, FLOORS AND CEILING OF THE BUILDING.
- E. LINE SUPERVISION SHALL BE INCORPORATED TO DETECT SIGNAL CUTTING, SHORTING, OR SPLICING OF THE TRANSMISSION LINE. ATTEPTS AT GAINING ACCES TO, OR SUBSTITUTION OR NEUTRALIZATION OF ANY SENSOR SHALL BE DETECTED AND SIGNAL.
- F. A BACK- UP, STANDBY POWER SOURCE OF 4 HRS. MINIMUM DURATION SHALL BE PROVIDED TO ENABLE UNINTERRUPTED OPERATION FOR THE SENSOR SYSTEM.
- G. IDS WILL INCLUDE A CENTRAL CONTROL STATION WHERE ALARMS ANNUNCIATE.
- H. THE IDS SHALL HAVE A PRIMARY MONITOR (ATPMO) AND A SECONDARY MONITOR (AT THE BUILDING). THE ALARM SHALL SOUND ON BOTH MONITOR UNITS AND IT SHALL NOT BE POSSIBLE FOR AN OPERATOR AT ONE MONITOR FROM SOUNDING AT THE REMOTE UNIT. ON/OFF SWITCHES MUST NOT BE LOCATED AT A CENTRAL CONTROL STATION AND ACCES/SECURE SWITCHES MUST BE LOCATED WITHIN THE ALARMED AREA.
- 2.APPROVED SYSTEM- THE BEST APPROVED SYSTEM IS THE AN/FSS-9(V) JOINT-SERVICE INTERIOR INTRUSION DETECTION SYSTEM.
- 3. PARTS, FSN, NSN

A LISTING OF THE PARTS REQUIRED FOR THE IDS SYSTEMS CAN BE FOUND IN OPNAVINST 5530.13 pg.VII-7.



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THE CLASSIC AT CORUERS AND GATE SECTIONS. POST, BRACING AND OTHER CTRUSTICAL, MEMBERS CHALL RE ON THE LUSIDE OF THE FENCE FABRIC.

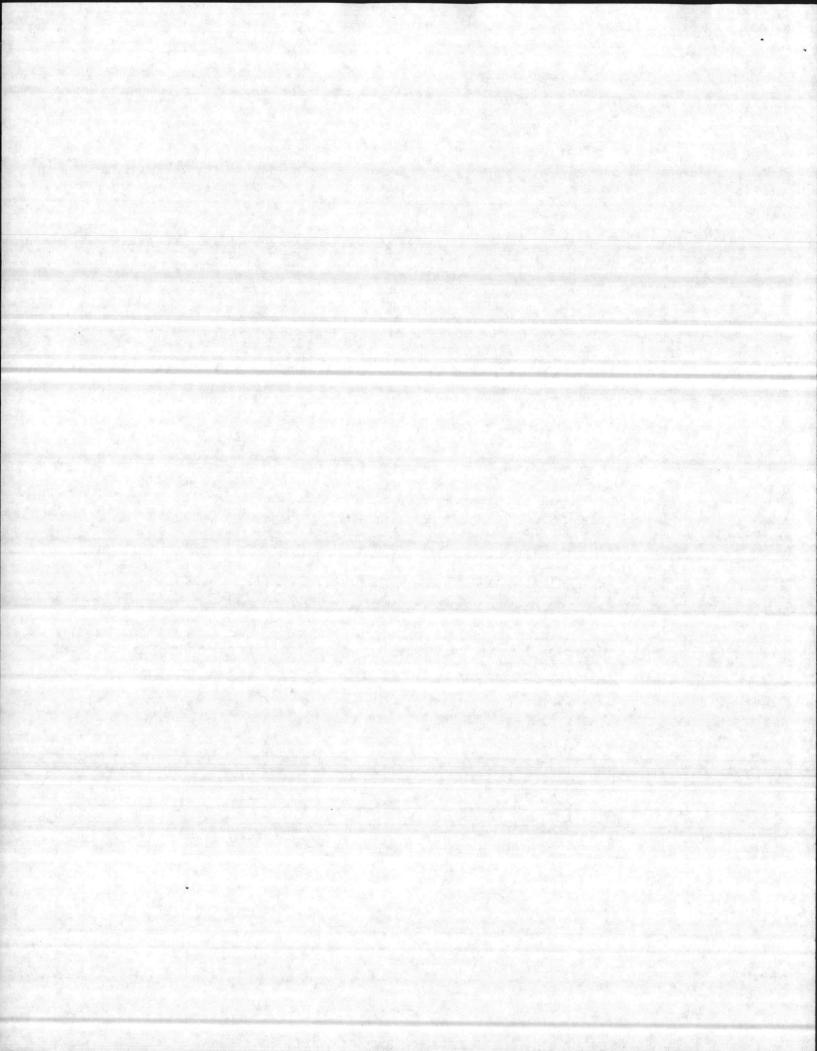
3. Holehald HEIGHT TO THE TOP OF THE PRICE FABRIC WILL BE SIX FEET

4. CHARLOGE IN-OUTRIGGERS SHALL ME 15 to 18 INCHES LONG, 45degrees (FACING-CUTWORD), STRUNG WITH THREE STRAIDS OF BARBED WIRE EVENLY SPACED.

5.OPENINGS-FENCING WILL HAVE A MINIMUM OF VEHICLE AND PEDESTRIAN GATES,
CONSISTANT WITH OPERATIONAL REQUIRMENTS.UNLESS MANNED CONSTANTLY
GATES WILL BE SECURED WITH LOCKS: THAT MEET OR EXCEED THE CRITERIA
OF MILSPEC. MIL-P-43851, AND ½ INCH CHAIN.

6.BUILDING WALLS-BUILDING WALLS MAY BE INCORPERATED INTO THE BARRIER SYSTEM,
PROVIDED THEY OFFER PROTECTION AGAINST INTRUSION EQUIVELENT
TO THAT OF THE PERIMETER BARRIER AND ARE SUBJECT TO VISUAL
OBSERVATION.

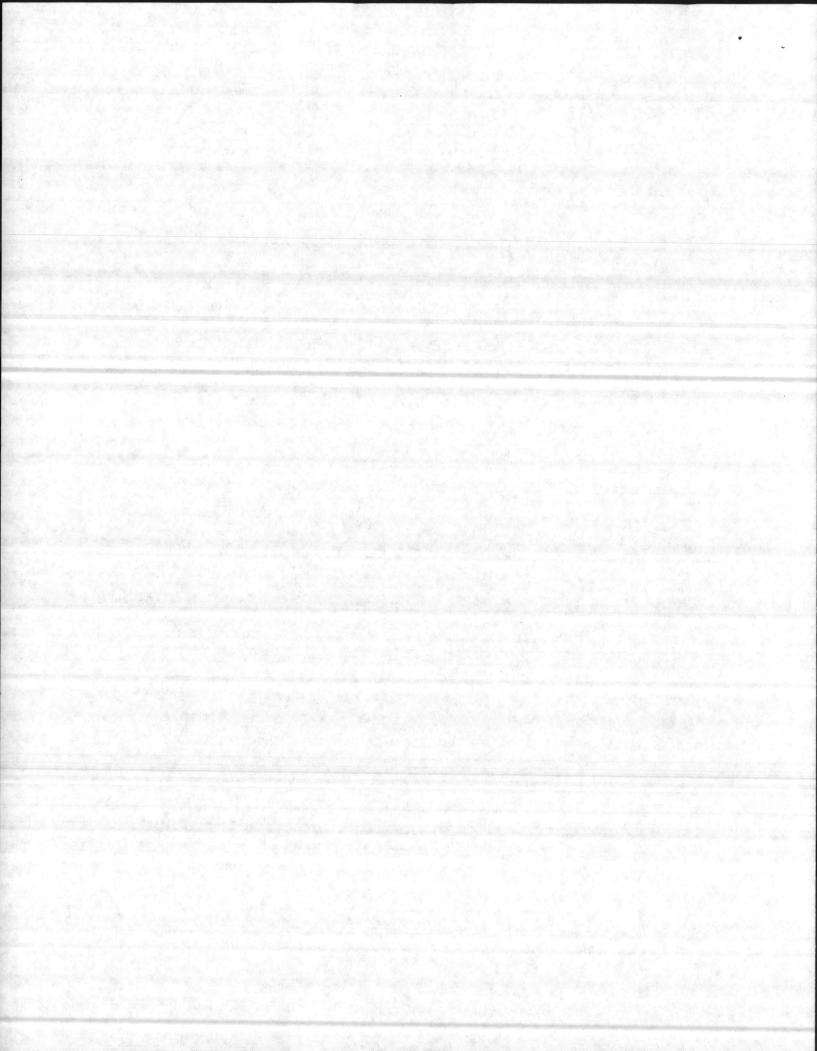
7.CLEAR ZONES-CLEAR ZONES SHALL EXTEND A MINIMUM OF 20 FEET ON THE OUTSIDE AND 30 FEET ON THE INSIDE OF THE PERIMETER FENCE. CLEAR ZONES WILL BE FREE OF ALL OBSTACLES, TOPA GRAPHICAL FEATURES AND VEGITATION EXCEEDING 8 INCHES OF HEIGHT.



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GUHTOD COTFIN (EYNTY) STORAGE EMI /- ILL of their 1,51,74,7 BO'NSO' HETAL CAULPY 190' LIGHT & L'SHT LIGHT

