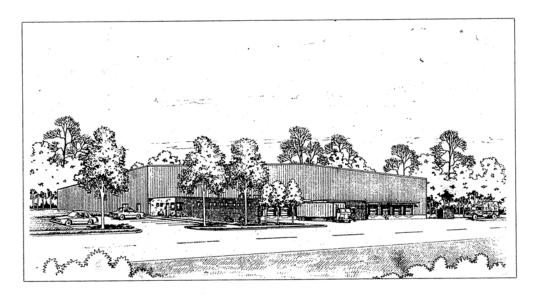




STANDARD DEFINITIVE DESIGNS TROOP ISSUE SUBSISTENCE ACTIVITY

TISA COLD/DRY STORAGE FACILITIES







THIS STANDARD DEFINITIVE DESIGN PACKAGE HAS BEEN DEVELOPED AS A GUIDE FOR DESIGN OF SMALL, MEDIUM AND LARGE TROOP ISSUE SUBSISTENCE ACTIVITIES "TISA" COLD / DRY STORAGE FACILITIES THROUGHOUT THE CONTINENTAL UNITED STATES CONTON. THE FOLLOWING UNIQUE FUNCTIONAL AND TECHNICAL REQUIREMENTS MUST BE CONSIDERED FOR ADAPTION OF THIS STANDARD OUTSIDE CONTINENTAL

UNITED STATES (OCONUS) EXTERIOR LIGHTING FOR ADMINISTRATIVE AND BREAKROOM AREAS

EXTERNAL FORKLIFT CHARGING STATION
EXTERNAL HOOK-UP FOR REEFER VANS

SELOW GRADE SPRINKLER WATER STORAGE

· RAILROAD SPURS DOCK CONFIGURATION FOR SIDE LOADING/UNLOADING
ALTERNATE WARTIME USES

THE PURPOSE OF THIS DESIGN PACKAGE IS TO PROVIDE STANDARD THE PURTURE OF THIS DESIGN PALADOS IS TO PROVIDE STANDARD PUNCTIONAL LATOUTS AND CRITERIA FOR SEXING THE COLD-DRIX STORAGE PACILITIES FOR THE DEPARTMENT OF THE ABMY FACILITIES FOR THE DEPARTMENT OF THE ABMY FACILITIES STANDARDIZATION PROCESS IS INCLUDED TO ALD IN THE PREPARATION OF DD FORM IN ADDITION THIS PACKAGE SERVES AS A GUIDE TO MILITARY DESIGN AGENCIES AND A'E FIRMS IN THE APPLICATION OF THE DESIGN TO A

THE PROCESS AND CRITERIA FOR SIZING HAVE BEEN DEVELOPED TO DETERMINE THE OVERALL STORAGE REQUIREMENTS BASED ON THE INSTALLATIONS CATEGORIES OF TROOP STRENGTH. AN EXAMPLE OF THIS PROCESS IS INCLUDED IN THE REVIEW AND ANALYSIS DOCUMENT.
THE OVERALL STORAGE REQUIREMENTS WILL BE DETERMINED BY THE INSTALLATIONS MASTER PLANNER AND TROOP ISSUE SUBSISTENCE
OFFICER WITH ASSISTANCE FROM THE US ARMY TROOP SUPPORT AGENCY.
THE INSTALLATIONS CALCULATED STORAGE REQUIREMENTS WILL BE VERIFIED BY THE MAJOR COMMAND AND TSA VIA SITE VISIT. TSA WILL UTILIZE THE VERIFIED STORAGE REQUIREMENTS TO DETERMINE SQUARE

POOTAGE AND OPTIMUM PACILITY CONFIGURATION PRIOR TO PREPARATION OF DD FORM 1891 BY THE INSTALLATION. TSA'S INVOLVEMENT WILL EXTEND

SMALL MEDIUM AND LARGE SIZE FACILITIES IN THIS PACKAGE THE SMALL, MEDIUM AND LARGE SIZE FACILITIES IN THIS PACKAGE HAVE BEEN DEVELOPED BASED ON AVERAGE LEVELS OF TROOP STRENGTHS FOR EACH INDIVIDUAL CATEGORY. THE PLANS FURTHER REFLECT AN ORGANIZATIONAL CONCEPT WHICH ALLOWS FLEXIBILITY AND EXPANSION TO THE FACILITY. INTEGRAL AND MANDATORY ELEMENTS OF THIS DESIGN PACKAGE ARE THE STORAGE AID SYSTEMS AND MARRIAL HANDING BRITISHED STRENGTH AND STRENGTH OF THE STORAGE AID SYSTEMS AND MARRIAL HANDING BRITISHED STRENGTH AND STRENGTH OF THE STORAGE AID SYSTEMS AND MARRIAL HANDING BRITISHED STRENGTH AND STRENGTH AND MARRIAL HANDING BRITISHED STRENGTH AND STRENGTH AND MARRIAL HANDING BRITISHED BRI AND MATERIAL HANDLING EQUIPMENT WHICH ARE ESSENTIAL TO A FUNCTIONAL WAREHOUSE ENTITY.

A SUMMARY OF THE MAJOR MANDATORY AND OPTIONAL ELEMENTS OF THIS DESIGN PACKAGE ARE LISTED AS FOLLOWS.

MANDATORY

· PUNCTIONAL RELATIONSHIPS

- DATA TABLES
- PROCESS FOR SIZING
- DATS OF SUPPLY CALSO MINIMUMD
 NONCOMBUSTIBLE EXTERIOR
- ENVELOPE
 -LOW TEMPERATURE STORAGE
- INTERIOR ENVELOPE
- MATERIAL HANDLING EQUIPMENT
- SPRINKLER SYSTEMS

· EMERGENCY GENERATOR HOOK-UP

- · AISLE WIDTHS · MINI/MAXI MART FUNCTION
- MAXI MART AISLE
- OFFICE AREA WALL TYPES
- MECHANICAL EQUIPMENT
- LOCATION
 EMERGENCY GENERATOR

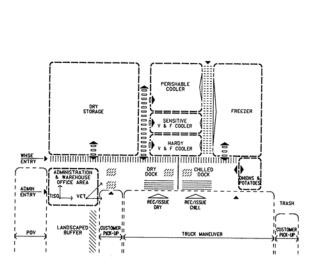
THIS DEFINITIVE DESIGN PACKAGE HAS BEEN DEVELOPED AND REVIEWED WITH ASSISTANCE FROM THE US ARMY TROOP SUPPORT AGENCY, FORCES COMMAND,
TRAINING AND DOCTRINE COMMAND, HEADQUARTERS - US ARMY CORPS OF ENGINEERS AND THE US ARMY CORPS OF ENGINEERS - NORFOLK DISTRICT.

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- 1. INDEX, GENERAL DESCRIPTION
- 2. FUNCTIONAL DIAGRAMS, FUNCTIONAL AND OPERATIONAL REQUIREMENTS
- 3. SITE PLANS, SITE DEVELOPMENT REQUIREMENTS
- 4. FLOOR PLAN-SMALL TISA, VERTICAL ZONING, BUILDING DATA & ARCHITECTURAL DESIGN OBJECTIVES
- 5. FLOOR PLAN-MEDIUM TISA, VERTICAL ZONING, BUILDING DATA & WAREHOUSE CONSIDERATIONS/SYSTEMS
- 6. FLOOR PLAN-LARGE TISA, VERTICAL ZONING, BUILDING DATA & FIRE PROTECTION
- 7. ELEVATIONS, BUILDING SECTIONS & ENGINEERING SYSTEMS
- 8. WAREHOUSE SECTION, STORAGE AID ELEVATION, WALL TYPES, CRITICAL DETAILS & ARCHITECTURAL AND STRUCTURAL SYSTEMS
- 9. SIZING CRITERIA

DEPARTMENT OF THE ARMY FACILITIES STANDARDIZATION PROGRAM DEFINITIVE DESIGN W/A & / CADD PM TROOP ISSUE SUBSISTENCE ACTIVITY
COLD/DRY STORAGE FACILITY MK OCTOBER 1988

NORFOLK DISTRICT FILE NO. FL 734-I.I



MINSE

ADMINISTRATION

ADMINIS

FUNCTIONAL DIAGRAM

FUNCTIONAL DIAGRAM
MEDIUM & LARGE TISA

FUNCTIONAL AND OPERATIONAL REQUIREMENTS

THIS STANDARD HAS BEEN DESIGNED TO MEET THE FUNCTIONAL AND OPERATIONAL REQUIREMENTS FOR "TISA" COLD/DRY STORAGE FACILITIES. THE SUPPORT CAPACITIES FOR VARIOUS TROOP STRENGTHS, PERSONNEL (BOTH ADMINISTRATIVE AND WAREHOUSE) ALONG WITH THE ASSOCIATED STORAGE CAPACITIES OF KEY WAREHOUSE AREAS ARE SPECIFICALLY DEFINED ON THE FLOOR PLAN SHEETS. THE PLAN IS ORGANIZED INTO FOUR FUNCTIONAL AREAS! AGE, ADMINISTRATIVE, WAREHOUSE OFFICE AND SUPPORT SPACES. THESE AREAS ARE ORGANIZED BY A LINEAR SPINE CONTAINING THE SUPPORT FUNCTIONS WHICH SERVE AND ORGANIZE ACCESS TO THE INDIVIDUAL STORAGE AREAS. THE WAREHOUSE OFFICE AREA IS CENTRALLY LOCATED (IN THE MEDIUM & LARGE SIZES) FOR ACCESS TO AND CONTROL OF THE DOCK FUNCTIONS. THE ADMINISTRATIVE OFFICE AREA IS LOCATED SO AS NOT TO INTERFERE WITH WAREHOUSE RELATED FUNCTIONS AND MAINTAINS ITS PRIMARY RELATIONSHIPS TO POV PARKING WHILE ALLOWING SPECIFIC INTERNAL SPACES SUCH AS BREAK-TRAINING AND TOILETS EASY ACCESS FROM ALL AREAS WITHIN. THE FUNCTIONAL RELATIONSHIPS DESCRIBED AND SHOWN ARE A MANDATORY ELEMENT OF THE DESIGN. THE FOUR FUNCTIONAL AREAS ARE FURTHER DEFINED AS FOLLOWS:

SIDRAGE ABEAS SIX SPECIFIC AREAS ARE NICLUDED IN THIS FACILITY TO ACCOMMODATE THE VARIOUS PRODUCTS STORED, DAY STORAGE, FRUIT & VEGETABLE COOLERS (TWO TEMPERATURES), PERISHABLE COOLERS AND THE FREEZER. THESE AREAS ARE FURTHER ORGANIZED ALONG THE SPINE IN 20NES OF DRY, FOUR TYPES OF COOLER AND THE FREEZER THE COOLERS AND THE FREEZER AREAS SPECIFIED AND ASSESSED AS A MAXIMARY ASSESSED AS THE FREEZER AREAS SPECIFICATION OF THE FREEZER ASSESSED AS ECCOUNTY SERVICE SAN OPTIONAL ELEMENT OF THE DESIGN. A SECONDARY SERVICE IS AN OPTIONAL ELEMENT OF THE DESIGN. A SECONDARY SERVICE ASSESSED AS SERVICE ASSESSED AS SERVICE ASSESSED AS SERVICE ASSESSED AND SERVICE ASSESSED AS SERVICE ASSESSED AND SERVICE FASTED AND SERVICE FASTED AND SERVICE THE MAY BE RELOCATED TO REPLACE THE MAXIMARY ASSES IN THOSE FACILITIES WHICH DO NOT MERCHAUST HAMM-MART OFFICIAL.

SUPPORT THIS ZONE OF THE FACULTY IS 40° WIDE (SMALL TISA) AND 50° WIDE GEDIUM & LARGE TISAS AND FINES THE ENTRE LENTH OF THE STORAGE AREAS, A CIRCULATION ZONE 12° WIDE IS LOCATED DIRECTLY ADJACENT TO STORAGE AREAS AND SHALL BE DEDICATED TO CAST AND MATERIAL HANDLING EQUIPMENT CIRCULATION, MATERIAL HANDLING EQUIPMENT CIRCULATION, MATERIAL HANDLING EQUIPMENT STORAGE AND BATTERY CHARGNIN IS LOCATED IN THE DRY DOCK AREA ADJACENT TO AN EXTERIOR WALL IN THE SMALL TISAS AND WITHIN AN ENCLOSED AREA IN THE CHILLED DOCK IN THE MEDIUM AND LARGE TISA'S, FOUR WHEEL CAST STORAGE IS LOCATED ON THE DRY DOCK AND IS PLACED MEDICATELY DAJACENT

TO CUSTOMER PICK-UP AND DELIVERY PARRING, THE REMANDER OF THE SUPPORT AREA IS DIVIDED BETWEEN THE DRY AND CHILLED DOCKS. THESE DOCKS SERVE AS MILITPLE FUNCTION AREAS WHICH NICLUDE, RECEIVEN, POSSUMIC, STAGOR AND HOLDING, UNIT PILES, VETERRARY INSPECTION AND A SALVAGE AREA ADJACENT TO A WALL WITH A FLOOR DRAIN, SMALL 3-COMPARTMENT SINK WITH DRAINGOARD AND SPACE FOR A TABLE AND STAND UP STORAGE SHELF. THIS AREA SHALL BE KEPT COLUMN FREE AND OPEN TO ALLOW THE FLEXIBILITY REQUIRED IN A MULTI-PUNCTION SPACE, DELINEATION OF THE VARIOUS FUNCTIONS VIA PAINTED FLOOR TREATMENTS WILL AID IN ORGANIZATION OF THE SPACE.

WARFLOUSE OFFICE THE LENGTH OF THE SUPPORT SPACE IN THE MEDIUM AND LARGE FACILITIES ALLOW FOR CENTRAL LOCATION MEDIUM AND LARGE FACILITIES ALLOW FOR CENTRAL LOCATION BETWEN THE ORY AND THE CHILLED DOCUS. THIS AREA HAS BEEN COMBINED WITH ADMINISTRATION IN THE SMALL OF THE CONTROL OF THE LINGTH OF DOCK REQUIRED. THE WARFHOUSE OFFICE MAD SEPECTION FOR SPACE FOR WARFHOUSE OFFICE AND INSPECTION FOR ALL OF THE VETERNARY OFFICE PERSONNEL IN LOCATED TO HAVE DIRECT VISUAL ACCESS TO THE DOCK AREA AS WICL AS INCOMING THUCKS. A SECONDARY MEANS OF ECRESS IS ALSO REQUIRED FROM THE VETERNARY OFFICE. EXISTING MULTIARY CRITERIA FOR THE CONSIDERATION SHOULD BE GIVEN TO GLAZNO THIS AREA IN ORDER TO MAINTAIN VISUAL ACCESS. BUYER WAITING IS LOCATED WITHIN THE WARRHOUSE OFFICE IN ORDER TO LIMIT ACCESS OF UNAUTHORIZED PERSONNEL TO THE FACILITY.

ADMINISTRATION THE ADMINISTRATIVE AREA PROVIDES BOTH DIRECT ADMINISTRATIVE AREA PROVIDED BOTH THE MARRHOUSE FUNCTIONS, VENDING, BREAK-TRAINING AND TOLET AREAS ARE DIRECTLY ACCESSIBLE FROM THE SUPPORT SPIRE WHLE THE TISO, GENERAL ADMINISTRATION AND CONFERENCE ARE GREATED TO THE POPY PARKING AND DIFFERENTIATED BY APPROPRIATE MATERIALS AND CONSIDERATIONS. AN ENGLOSED OFFICE IS PROVIDED FOR THE TISO WITH VIEW TO GENERAL ADMINISTRATION WHILE THE REMANDER OF SPACE IS OPEN OFFICE.

FLEXIBILITY AND EXPANSION ARE ACCOMPLISHED IN THE ORGANIZATION OF ADMINISTRATIVE/WAREHOUSE OFFICES AND STORAGE AREAS ON OPPOSITE SIDES OF THE LINEAR SUPPORT SPINE. A MAXIMUM TOTAL OF 25% EXPANSION TO THE NOVIDULAL STORAGE AREAS IS REQUIRED AS INDICATED ON THE SITE PLAN. EXPANSION MAY VARY BY RATION TYPE AND STORAGE AD RECOVERED, HOWEVER, IT IS GENERALLY.

LMITED TO PARALLEL WITH AND OPPOSITE TO THE SUPPORT SPINE. A COLLINN AND BEAM STRUCTURE ELIMENTES THE NEED FOR BEAMEN WALLS IN THE STORAGE AREAS AND FURTHER ENABLES EASE OF EXPANSION. CARFFUL CONSIDERATION SHOULD BE GIVEN TO THE ROOF SLOPE IN ORDER TO AVOID LIMITATION OF EXPANSION OF AVAILABLE STORAGE HIGHTY IN THE DESIGNATED DIRECTIONS.

IN CEMERAL, ALL WALLS SEPARATING THE INDIVIDUAL STORAGE AREAS SHALL BE CONSIDERED FIXED DUE TO THEIR REQUIREMENT TO PROVIDE THERMAL SEPARATION. WALLS SEPARATING THE ADMINISTRATION & WAREHOUSE OFFICES FROM STORAGE SHALL BE FIRE RATED, FIXED PARTITIONS WITH NO PROVISION FOR EXPANDING ENHARD (TOWARD STORAGE). CONSIDERATION SHOULD BE GIVEN TO SOUND TRANSMISSION CONTROL BETWEEN THE OFFICE AND STORAGE AREAS. A MINIMUM STOC OF 40-65 SHALL BE PROVIDED.

THIS FACILITY IS DESIGNED TO OPERATE THE SAME FOR CONTRACTOR OR GOVERNMENT PERSONNEL. THE PICKING FUNCTION IS DESIGNED TO ACCOMMODATE EITHER WAREHOUSE OR CUSTOMER ACTIVITY VIA VERTICAL ZONNO OF THE STORED PRODUCT AT THE APPROPRIATE HEIGHTS. PICK LEVEL POSITIONS AND OVERALL ZONNOR ARE FURTHER DETAILED ON THE FLOOR PLAN SKEETS AND THE STORAGE AID ELEVATION ON THE FLOOR PLAN SKEETS AND THE STORAGE AID ELEVATION OF

CONFRAL FLOW THROUGH THE FACILITY STARTS AT CUSTOMER PARKING WHICH ENTERS ADALOSENT TO THE FOUR HHELE LART STORAGE, FROM THAT POINT, UTILIZENG THE CIRCULATION SPINE. THE DRY STORAGE AREA IS ACCESSED, CIRCULATION CONTINUES ALONG THE SPINE INTO THE CHILLED DOCK. A SECONDARY CIRCULATION, PERPENDICULAR TO THE CHILLED DOCK CONTAINS THE REACH-THROUGH OPTION OF ACCESS TO THE COOLERS AND FREEZER. THIS MAXI MART AISLE ALSO CONTAINS DOORS FOR ACCESS BY PERSONNEL AND FOUR WHEEL CARTS ONLY. MATERIAL HANDLING EQUIPMENT USED TO REPLENSH THE COOLERS IS CONTROL TO SECONDARY SERVICE ASSLE, PRODUCT IS THEN BROUGHT BACK TO THE UNIT PILE AREAS FOR INSPECTION BY MARCHOUSE PRESONNEL AND EVENTUAL STANCE FOR PINE ISSUE.

THIS DESIGN IS CAPABLE OF HANDLING CUSTOMER SHOPPING WHICH IS REFERRED TO AS MINI, MAXI OR MINI/MAXI MART THOUGHOUT THIS PACKAGE, THE FOLLOWING ARE DEFINITIONS OF EACH:

MINI MART - CUSTOMER SHOPPING IN DRY STORAGE ONLY.

MAXI MART - CUSTOMER SHOPPING IN COOLERS AND FREEZER ONLY.

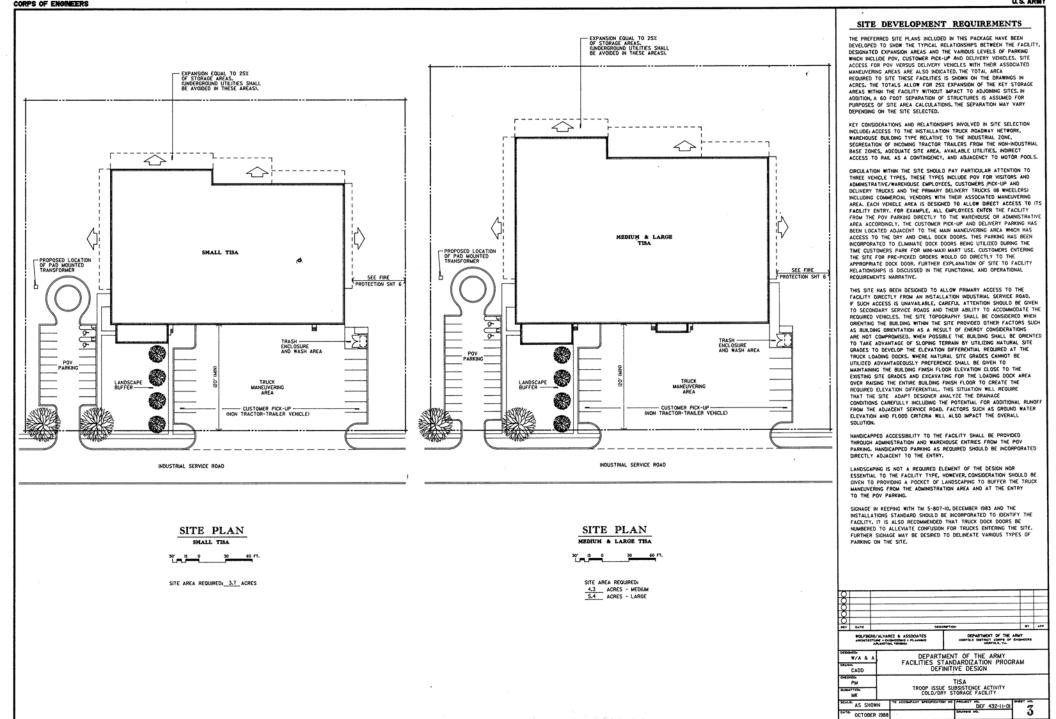
MINI/MAXI MART - CUSTOMER SHOPPING THROUGHOUT ALL STORAGE AREAS.

AISLE WIDTHS

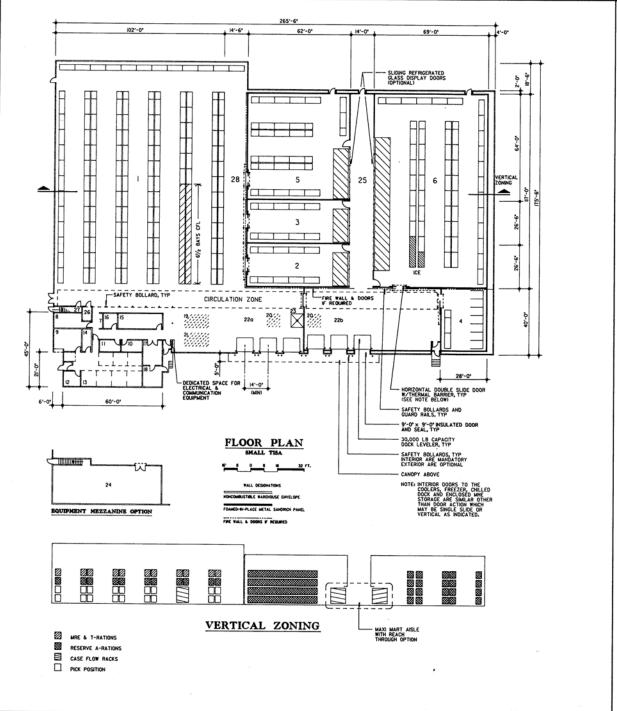
THE SMALL MEDIUM AND LARGE FACILITIES REFLECT AISLE WIDTHS WHICH ARE CAPABLE OF NANDLING CUSTOMER SHOPPING MINIMAKIN MART ACTIVITY) ALONG WITH NORMAL STOCKING BY EXPERIENCED WAREHOUSE PERSONNEL SMALT TANGUIST. A TEN FOOT AISLE WIDTH IS REQUIRED FOR BOTH. TYPICAL AISLE WIDTH IN THE MEDIUM AND LARGE FACILITIES IS TEN FEET OTHER THAN THE MAXI MART AISLE FOUNTEEN FEET AND AISLES SERVING DRIVE-IN ARCKS AND THE SECONDARY SERVICE TO COOLERS AT TWELVE FEET. THE SMALL FACILITY IS TWELVE FEET THROUGHOUT OTHER THAN THE MAXIMART AISLE AT FOURTEEN FEET.

IT IS MANDATORY THAT THE MINIMUM WORKING AISLE NOT BE LESS
THAN 10"-0". AISLE WIDTH SHALL ACCOMMODATE HANDLING OF A GROCERY
MANUFACTURER ASSOCIATION (GMA) PALLET WITH A 53" LOAD LENGTH,

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	MONTEC	TURE . De	REZ & ASSOCIATES ON-EEMO - PLANNING ON, VIRGORA	DEPARTMENT OF THE ARMY MORFOLX DISTRICT COMPS OF CHOMECAS MORFOLX, VA.				
W/A & A				TMENT OF THE ARMY				
	CADD		DEFI	NITI	VE DESIGN	•		
	PM	Т			TISA			
	MK	1_			BSISTENCE ACTIVITY FORAGE FACILITY			
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U.S. ARMY



	BUILDING	DATA	
AREA	NO. SPACE	NET.	S.F.
		STORAGE TEMPERATURE	s I
STORAGE AREAS	DRY STORAGE HARDY VEGETABLE & F SOSTIME VEGETABLE & F ONIONS & POTA PERISHABLE COO FREEZER	TRUT COOLER 40-45° F FRUT COOLER 32-34° F TOES 55-60° F	13,973 1,599 1,599 1,066 3,875 7,888
ADMINISTRATIVE AREA	7 VENDING 8 BREAK/TRAINING 9 CONFERENCE RO 10 MEN-TLTS & LO 11 WOMEN-TLTS & 12 TISO 13 GENERAL ADMIN 14 STORAGE	OM OCKERS LOCKERS	18 160 216 84 84 90 837 74
WAREHOUSE OFFICE AREA	IS WHSE OFFICE (4) IG DRIVER WAITING IT INSPECTION ROO IS VETERINARY OFF	м	73 172 138
SUPPORT	22 STAGING, HOLDING G. DRY DOCK b. CHILLED DOCK	EE SHT 2 NARRATIVE) X CIRCULATION ZANINE E 45°F T (1) E ROOM COOLERS) I, ETC	7,527 1,495 1,631 20 16 1,620 2,438
TROOP CA	PACITY F	PERSONNEL	
BARRACK CAPACITY		DMINISTRATION	
CASH SALES (15%)		TISO	
	713 •		
HOSPITALS		ADMIN. STAFF (5-7)	-
PESERVES (WEEKEND		AREHOUSE	
RESERVES (14 DAY)	750	OFFICE	_2_
T-RATIONS	2,500	WAREHOUSEMEN (WITH MINI/MAXI)	_5_
MRE'S	2,500		
B-RATIONS		ETERINARY STAFF	_2_
	5% BARRACK CAPACITY	,	
STORAGE ARE	A PALLET	S FLOW L	ANES
DRY - A-RATIONS ORY - MRE & T-R. FREEZER COOLER - PERISHAB COOLER - SENSITIVE V COOLER - HARDY V & ONION & POTATOES MATERIAL HANI	420 LE 216 A.F 72	157 N/A 320 120 60 60 0	AIDS
FOUR WHEEL CARTS		PALLET RACK	AIUS
PALLET TRANSPORT		SINGLE DEEP	<u>1,960</u>
3000 Ib CAPACIT COUNTERBALANCED 3000 Ib CAPACIT DOUBLE DEEP FORKI 3000 Ib CAPACIT STOCK SELECTOR 3000 Ib CAPACIT	Y FORKLIFT 3 Y/15'-6" HEIGHT LIFT N/A Y/20'-6" HEIGHT	DOUBLE DEEP DRIVE-IN 2 DEEP	
		3 DEEP	~
		4 DEEP	_ 0
TO BE DETERMINE PERSONNEL BASE	D ON THE ISSUE	4 000	
PERSONNEL BASEI SCHEDULE AND E: MINI AND/OR MAXI	D ON THE ISSUE XTENT OF	CASE FLOW RACK	
PERSONNEL BASEI SCHEDULE AND E: MINI AND/OR MAXI	D ON THE ISSUE XTENT OF MART USE. ILING EQUIPMENT SHALL	CASE FLOW RACK	

ARCHITECTURAL DESIGN OBJECTIVES

THE OVERALL DESIGN OBJECTIVE OF THIS DEFINITIVE DESIGN PACKAGE IS TO ESTABLISH THE SPECIFIC PLAN RELATIONSHIPS AND BUILDING CONFIGURATION HALE ALLOWING EXPANSION CAPABILITY AND INTERIOR FLEXIBILITY IN SITE ADAPTATION, IN ADDITION, THE FACILITY LAYOUT IS DESIGNED BASEO ON THE STORAGE AID SYSTEM AND EQUIPMENT WHICH ARE MICLUPED AND ESSENTIAL IN ORDER TO MEET THE OVERALL OBJECTIVE.

THE PLAN SMAPE IS DERIVED FROM THE STORAGE AID SYSTEM, MISE WITH AND CUBE REGULEDE FOR THE WIDWOULDLE STORAGE AREAS, THESE AREAS, TIED TO THE LINEAR SUPPORT/CIRCULATION SPINE WITH THE RIFERSECTING ADMINISTRATION AND WARRHOUSE OFFICE AREAS, FORM THE OVERALL PLAN CONCEPT, DETAILED DISCUSSION OF THE STORAGE AREA AND ENEATED SUPPORT IS CONTAINED IN THE FUNCTIONAL AND OPERATIONAL REQUIREMENTS AND WARRHOUSE CONSIDERATIONS NARRATIVES.

THE STERIOR PLANNING MODULE FOR THE ADMINISTRATION AND APPROXIMATE MODULE OF PICE AREAS MAY VARY SLICENTLY, MODULE OF A PERFORMANTE MODULE OF DE FET WILL ALLOW FOR FILEMENTY PROVINCES AND AN ADMINISTRATIONS, THESE AREAS MANDAL MAY DEPENDENT ATTOMS, THESE AREAS MANDAL MAY DEPENDENT OF THE PROVINCES. THESE AREAS SHALL HAVE THE TYPICAL OFFICE FRUSHES INCLUDING ACOUSTICAL T.E.C. CELINGS, PAINTED VYPICAL OFFICE FRUSHES INCLUDING ACOUSTICAL T.E.C. CELINGS, PAINTED STREET, AND ADMINISTRATION OF THE PROVINCES AND ADMINISTRATION OF THE P

U.S.D.A. APPROVED FINSH SHALL BE PROVIDED ON ALL INTERIOR SURFACES IN THE STORAGE AND SUPPORT SPACES, ALL OTHER INSHES FOR THESE SPACES SHALL BE U.S.D.A. APPROVED INCLUDING THE STORAGE AND SYSTEM, CONCRETE MASONRY UNITS, ETC...

NITERIOR SIGNAGE FOR THE FACILITY IS OPTIONAL, HOWEVER, COMSIGNATION SOURCE DETAILS OF THE PROVIDING GENERAL PRODUCT LOCATION SIGNAGE WHICH IS FLEXIBLE AT BOTH THE ORY STORAGE TO MISLES AND IN THE SECONDARY GIRCULATION ACCESSING THE DODGLERS AND FREEZER, FLOOR DEMARCATION OF DEFINED AREAS WITHIN THE SUPPORT SPACE SUCH AS THE UNIT PRE, CIRCULATION COMES AND CUSTOMER FLOW ARE RECOMMENDED, ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE SOFT-IO, DECEMBER 1983.

HE BASIC OCCUPANCY CLASSIFICATION OF THIS BUILDING IS UNFORM UILDING CODE GROUP—B. DIVISION—FOR STORAGE AREAS AND GROUP—I, DIVISION—2 OFFICE BUILDING CLASSIFICATION FOR THE UNMINISTRATIVE AND WARRENDLES OFFICE AREAS, ANTICIPATED SPECIAL OCCUPANT LOADS ARE DEFINED ON THE FLOOR PLAN SWEETS. SPECIAL OCCUPANT LOADS ARE DEFINED ON THE FLOOR PLAN SWEETS. SPECIAL ONSIDERATION SHOULD BE GIVEN TO THE MATERIAL HANDLING COUPMENT TORAGE/BATTERY CHARGING AREA FURTHER BUILDING CLASSIFICATIONS ARE CONTIANCED IN THE FIRE PROTECTION MARRATIVE ON SWEET IO. 6.

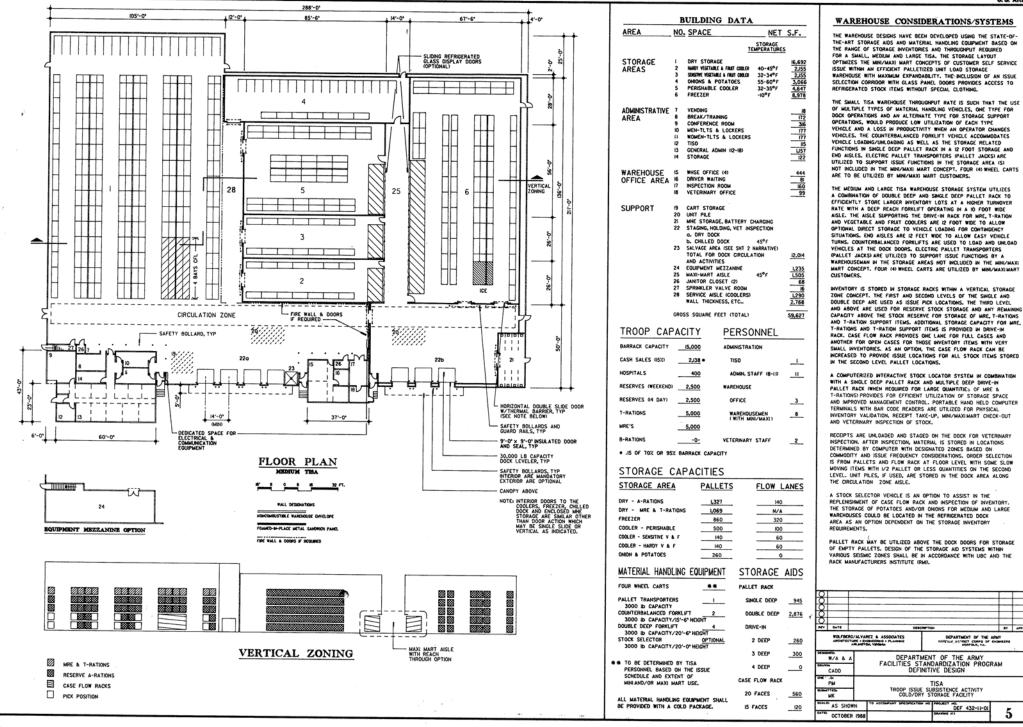
PROVISIONS FOR PHYSICAL SECURITY/ANTI-TERRORISM SHALL BE DETERMINED AND INCORPORATED BY THE USING AGENCY. THE QUAHA DISTRICT ENGINEER OFFICE PROTECTIVE DESIGN CENTER OF EXPERTISE MILL PROVIDE TECHNICAL QUIDANCE UPON REQUEST.

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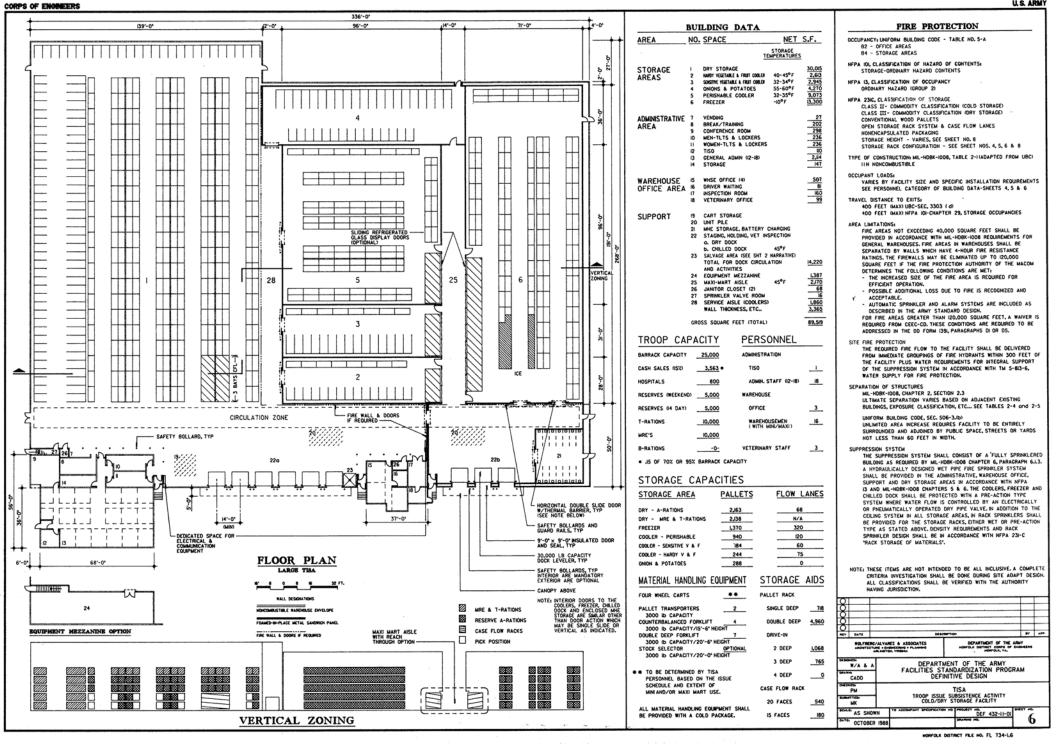
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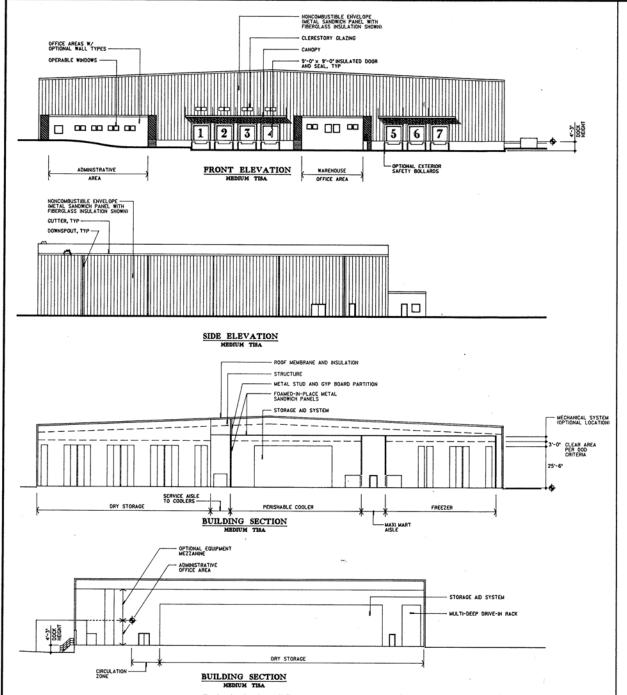
CORPS OF ENGINEERS
U.S. ARMY



U.S. ARMY



CORPS OF ENGINEERS



MECHANICAL (HVAC) SYSTEMS

THE AFE SHALL REVIEW VARIOUS HEATING, VENTILATING, AIR CONDITIONING AND REPRIGERATION SYSTEMS FOR APPROPRIATE APPLICATION IN THE GEOGRAPHICAL AREA IN WHICH THE PROJECT OCCURS. ELEGIBLITY OF ADMINISTRATIVE FACLITIES FOR AIR CONDITIONING SHALL BE BASED ON CHIEFINA FORDION IN ARCHITECTURAL AND ENGINEERING INSTEMENT SHALL TAKE MIT ACCOUNT AVAILABLE SOURCES OF ENRIFY ISSUE AS ENALL TAKE NOT ACCOUNT AVAILABLE SOURCES OF ENRIFY ISSUE AS EXISTING CENTRAL REPRIGERATION AND LEATING PLANTS, LIFE CYCLE COST AMAYSIS OF THE PROPOSED SYSTEMS, ENERGY CONSERVATION MEASURES INCLUDING THE UTILIZATION OF HEAT RESCITED FROM THE REPRIGERATION DELIBERATION OF HEAT RESCITED FROM THE REPRIGERATION COURSED.

CHITEMS FOR DRY STORAGE FACILITIES SMALL BE BASED ON GENERAL BE PROVISIONS OF D.O., 0.445.9-1-M. MCCHANGLAL VENTILATION SMALL BE PROVIDED AT THE PROPER RATE TO PREVENT DRY STORAGE ROW TEMPERATURE FROM EXCEEDING 90°F, MECHANGLAL COQUING MAY BE PROVIDED IN AREAS WHERE THE INTERIOR STORAGE AREA TEMPERATURE CANNOT BE MANTANED AT 30°F, BY MECHANGLA VENTILATION ALONE. DESIRABLE SPACE RELATIVE HUMBITY IS 40-55 PERCENT. SPACE NEATHON SMALL BE PROVIDED TO MANTAIN A TEMPERATURE OF 40°F, ADDITIONAL VENTILATION INCLUDING THE ATTIC SPACE AND WALL CANTTY AT LOW TEMPERATURE STORAGE AREAS SPALE BEP ROVIDED.

REFRIGERATED STORAGE DESIGN TEMPERATURES FOR THE DIFFERENT AREAS WILL BE AS FOLLOWS:

CHILED DOCK AND MAXI-MART AISLE 45°F.

M GENERAL, REFRIGERATED STORAGE ROOMS FOR SMALL AND MEDIUM SIZE FACILITIES SHALL BE BASED ON PACKAGED SPLIT COMMERCIAL REFRIGERATION SYSTEMS UTILIZING AIR COOLED CONDENSING UNITS WITH HERMETIC COMMERCIANS, AND FAN COIL. EVAPORATIONS, DEPENDING UPON THE OUTCOME OF LIFE CYCLE COST ANALYSIS AND LOCAL CONDITIONS, A LARGE SIZE FACILITY MAY BE DESIGNED WITH A CENTRAL STATION NDUSTRIAL SYSTEM UTILIZING LARGE OPEN-TYPE COMPRESSORS, EVAPORATIVE CONDENSERS OR COUNCIT OWNERS AND AIR UNITS.

AS A GENERAL GUIDELINE, DESIGN FOR PACKAGED SPLIT SYSTEMS SHALL INCLUDE THE FOLLOWING ITEMS:

I. A MINIMUM OF TWO INDEPENDENT SYSTEMS SHALL BE INSTALLED

- I. A MINIOUN OF THU NOUPENDENT STSTEMS SHALL BE INSTALLED, TO SERVE EACH ROOM, IF ONLY TWO SYSTEMS ARE INSTALLED, EACH SHALL HAVE A CAPACITY EQUAL TO TOX OF THE TOTAL LOAD, REFRIEGRANT FOR SYSTEMS WITH ROOM TEMPERATURE OF 25°F AND LOWER SHOULD BE R-502. REFRIEGRATION FOR ROOM TEMPERATURE OF 26°F OR HOHER SHOULD BE R-22.
- 3. ALL ROOMS WITH AIR TEMPERATURE LOWER THAN 38°F MUST HAVE AUTOMATIC DEFROST. BLETCHE DEFROST SHOULD BE FAVORABLY CONSIDERED FOR REASONS OF SIMPLICITY AND MIDE AVAILBRILTY WITH AUTOMATIC DEFROST, SYSTEMS SHOULD BE SELECTED FOR 20 HOUR DEPRATION.
- ROOMS HELD AT 38°F TO 44°F CAN UTILZE ROOM AIR DEFROST, BUT A TIMER MUST BE PROVIDED TO FORCE THE DEFROST.
- SYSTEM SHOULD BE SELECTED FOR 16 HOUR OPERATION,
 S. FOR ROOM TEMPERATURES OF 45°F AND HIGHER, CONTROL
 TEMPERATURE SHOULD BE HELD ABOVE 30°F TO PREVENT COIL
- 6. AIR UNIT EVAPORATORS FOR VEGETABLE COOLERS WHERE HIGH HUMIDITY IS DESIRED SHOULD BE SELECTED WITH A 10°F TEMPERATURE DIFFERENCE BETWEEN THE RETURN AIR AND COIL TEMPERATURES.
- AIR UNITS FOR FREEZER STORAGE SHOULD HAVE NO MORE THAN 4 FINS/INCH, AIR UNITS FOR COOLERS SHOULD HAVE NO MORE THAN 6 FINS/INCH AND 4 FINS/INCH IS MORE DESIRABLE FOR HIGH MOISTURE LOADS WHEN UNIT TEMPERATURE IS BELOW 28°F.
- MOISTURE LOADS WHEN UNIT TEMPERATURE IS BELOW 20°F.

 8. ALL JOINTS IN THE PIPING SYSTEM SHOULD BE BRAZED.

 9. SYSTEM SHOULD BE COMPLETE WITH SUCTION-LIQUID HEAT
 EXCHANGERS, SUCTION TRAP ACCUMULATORS FOR COMPRESSOR
- PROTECTION, DEHYDRATORS AND LIQUID BULLSEYE.

 10. ALL SYSTEMS SHOULD CONFORM WITH THE REQUIREMENTS OF THE ANSI-ASHRAE IS-28 SAFETY CODE FOR MECHANICAL REFRIGERATION

SPACE FOR MECHANICAL EQUIPMENT HAS BEEN PROVIDED IN COURPHENT MEZZANNES. MECHANICAL ROOMS SHALL BE PROPERLY VENTILATED TO PREVENT EXCESSIVE TEMPERATURES. VIBRATION AND MOIS CONTROL CONSIDERATIONS SHALL BE PROVIDED IN THE MECHANICAL ROOMS. THE LITABLE LOCATION OF THE MECHANICAL GOUPHENT IS OPTIONAL.

PROVISIONS MUST BE MADE TO PROVIDE CONTINUOUS HEAT UNDER THE FREEZER FLOOR THROUGH AN UNDERFLOOR WARMING SYSTEM. ANY HEAT SOURCE INCLUDING WASTE HEAT FROM OTHER SYSTEMS TRANSMITTED BY CIRCULATED GLYCOL, OR FORCED AN IS ACCEPTABLE. FORCED AMBIENT ARE SHOULD NOT BE USED EXCEPT WITH AN ADMILIARY WEAT SOURCE EXCEPT IN THE TROPICAL AREAS. GRAVITY INDUCED AIR CIRCULATION SHOULD NOT BE USED IN ANY CIRCULASTANCE.

A MONTORRIG SYSTEM INCLUDING A MAIN CONTROL PANEL SHALL BE PROVIDED TO MONTOR THE TEMPERATURE IN EACH REFRIERATED STORAGE ROOM, THE SYSTEM SHALL BE CAPABLE OF PROVIDING VISUAL AND AUDIBLE ALARMS FOR ABNORMAL CONDITIONS AND SHALL BE CAPABLE OF SEROING ALARM MESSAGES, WA TELEPHONE LINES, TO A PREDETERMINED LOCATION. THE USE OF A THO-CHANNEL TELEPHONE DIALER SHOULD BE CONSIDERED, RECORDING THERMOMETERS CAY HOW LARGE DIAL TYPE SHALL BE PROVIDED NEAR THE FRONT TOOM ON THE EXTERNOR OF EACH REFRIERATED STORAGE ROOM, PROVISIONS SHALL BE MADE FOR THE-IN OF THE MONTORING SYSTEM TO EXISTING OR FUTURED POST MIDE CHECKY MONTORING AND CONTROL SYSTEM EACH STEME AND STATEM CHARLES AND CATABLE SHAPE OF THE STATEM CONTROL OF THE MAINTONING AS SHOULTED. THE REFRIERATION SYSTEMS WHICH CONNECTED TO POST MIDE CHECKY MONTORING BY THOSE SYSTEMS, WHEN CONNECTED TO POST MIDE CHECKY, SHALL HAVE PROVISIONS FOR MONTORING FUTURIORS ONLY HOW CHERONIC CHARLES AND CHARLES AND THE STATEM SHAPE ON THE OWNER OF THE STATEM OF THE STATEM.

PLUMBING SYSTEMS

DETERMINATION OF PLUMBING FIXTURES SHALL BE BASED ON THE NUMBER OF BUILDING OCCUPANTS STATED ON THE DATA FORM, ASSUMING A RATIO OF 50% MALE AND 50% FEBALE, IN ACCORDANCE WITH THE ARCHITECTURAL AND ENGINEERING INSTRUCTIONS (AED DESIGN CRITERIA, DATED MARCH IS), 1897, CHAPTER IS, SANTARY WASTE AND VENT, DOMESTIC COLD AND HOT WATER PIPMO SHALL BE PROVIDED TO SERVE THE TOLET ROOMS, JUNIOR ROOM, BEREAK ROOM, VETERINARAN INSPECTION ROOM, BOTTERY CHAPRING AREA, AND WASHDOMN STATIONS LOCATED THROUGHOUT THE FACLITY. WATER SUPPLY AND PRANS SHALL BE PROVIDED IN THE VERDING MACHINE AREA IF SO REQUIRED, STORM DRAW PIPMG SHALL BE PROVIDED THE BULDONG. MOOF DRANKS, IF UTLIZED, TO A POINT OF DESPOSAL OUTSIDE THE BULDONG.

ELECTRICAL SYSTEMS

LIGHTING AND REFRIGERATION EQUIPMENT LOADS WILL COMPRISE
THE MAJORITY OF THE BUILDING'S ELECTRICAL LOAD. RECEPTACLES
AND VENTILATION EQUIPMENT WILL MAKE UP THE REMAINING ELECTRICAL

A BUDGET OF 8 WAITS PER SQUARE FOOT FOR LICHTING AND 20 VOLT RECEPTALCES AND S WAITS PER SQUARE FOOT FOR MECHANICAL SYSTEMS IN OFFICE AREAS WILL SUFFICE BUDGETS FOR DRY STORAGE WILL BE WAIT FOR LICHTING, RECEPTALCES AND VENTILATED WHILE THE BUDGETS FOR COOLERS AND FREEZERS WILL BE 9 WAITS PER SQUARE FOR FOR COOLERS AND FREEZERS WILL BE 9 WAITS

LIGHTING IN COOLERS, FREEZER, DRY STORAGE AND LOADING DOCK AREAS WILL BE ACCOMPLISHED WITH THE USE OF HIGH PRESSURE SOOMA LIGHTING FRUIRES. THRITY PERCENT (3020 OF THE HIGH PRESSURE SOUMA LIGHTING FIXTURES SHALL BE INSTALLED WITH AN INTEGRAL QUARTZ LAMP AND SPACED TO PROVIDE AN EVEN LIGHTING INSTRUMENT OF STRUMENTS. FLUORESCENT LIGHTING FIXTURES WILL BE USED IN THE REMAINING AREAS OF THE BULLDING PARTICULARILY OFFICES, TOILETS, CONFERENCE ROOMS, ETC. BALLASTS IN COOLERS AND FREEZER SHALL BER CATE FOR "200" FOORTHING HER CONSIDERED IN LIGHT OFFICE STRUMENTS.

EXTERIOR LIGHTING WILL BE OF THE HIGH PRESSURE SOOUM TYPE, CONTROLLED BY A SERIES CONNECTED PHOTOCELL-TIME CLOCK CIRCUIT. ALLIMINATION LEVELS SHALL BE AS SET FORTH BY THE ARCHITECTURAL AND ENGINEERING INSTRUCTIONS (AED, DESIGN CRITERIA AND THE ILLUMINATIO ENGINEERING SOCIETY.

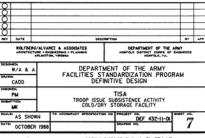
THE ELECTRICAL DESIGN SHALL PROVIDE MEANS OF CONNECTING A PORTABLE EMERGENCY GENERATOR TO POWER THE GUILDING ESSENTIAL ELECTRICAL SYSTEMS INCLUMENT ALL EXIT AND EGRESS LIGHTING, FIRE ALARM AND SECURITY SYSTEMS, REFRIGERATION EOUPENT, ESSENTIAL COMMUNICATION SYSTEMS AND SELECTED LIGHTING AND RECEPTACLES TO CONDUCT ESSENTIAL OPERATIONS AS AUTHORIZED BY THE ALE. DESIGN CHITCHIA, AND PRIONA, AND ASTE EMERGENCY GENERATOR SHALL POWER ALL LOADS PREVIOUSLY DESCRIBED AS WELL AS ALL LIGHTING AND RECEPTACLES AROUND THE REMERCIENCY GENERATOR LOCATION, CATHODIC PROTECTION SHALL BE PROVIDED TO ALL UNDERGROUND STEEL FUEL

A CENTRAL, ELECTRICALLY SUPERVISED FIRE ALARM AND SMOKE DETECTION SYSTEM, MEETING ALL LOCAL CODES AND NFPA REQUIREMENTS, WILL BE INSTALLED AS PART OF THE BUILDING SYSTEMS.

A COMPLETE SCURITY SYSTEM WILL BE MISTALLED TO MONITOR ALL OPENNOS AROUND BULLONG, DESIGN AND PROCUREMENT OF THE SECURITY SYSTEMS SHALL BE COORDNATED WITH AND REVEWED BY THE NTRUSION DETECTION SYSTEMS MANDATORY CENTER OF EXPERTISE 005-MCCN, U.S., ARMY ENGNEER DIVISION, MINITSVLILE, CENTRO-10-ME, A COMPLETE WITHOUTH OF THE NORMAL BE INSTALLED TO SERVE THE OFFICE AND OPERATING AREA OF THE OFFICE AND OPERATING AREA.

DEPENDING ON THE GEOGRAPHICAL LOCATION OF THE FACILITY,
THE INSTALLATION OF A COMPLETE LIGHTNING PROTECTION SYSTEM
SHALL REFUGLIATED.

INFORMATION MANAGEMENT SYSTEM PROVISIONS WILL CONSIST OF TERMINAL/CONCENTRATOR CABMETS, RACEWAYS, OUTLET BOXES, AND DEVICE PLATES, AND LINDERGROUND ACCESS TO THE EXTROR INSTALLATIONS INFORMATION MANAGEMENT SYSTEM. INFORMATION MANAGEMENT SYSTEM WITHOUT WILL BE PROVIDED FOR ADMINISTRATIVE WORK STATIONS AND OTHER LOCATIONS DESIGNATED AY THE USING ACTIVITY. THE LOCATION OF CABINET AND OUTLETS FOR THE PROFMATION MANAGEMENT SYSTEM WILL BE COORDINATED WITH THE LOCAL OUTLINESS FOR THE PROFMATION MANAGEMENT.



CORPS OF ENGINEERS U.S. ARMY ROOF MEMBRANE AND INSULATION ROOF STRUCTURE ARCHITECTURAL SYSTEMS PANEL SUSPENSION THE INTERIOR AND EXTERIOR IMAGE OF THIS FACILITY HAVE BEEN FOAMED-IN-PLACE METAL SANDWICH PANEL DEVELOPED AS A SUPLE FUNCTIONAL STATEMENT OF THE BUILDING TYPE. TECHNICAL CONSIDERATIONS, EASE OF EXPANSION AND THE PROBABLE LOCATION OF THE FACILITY WITHIN THE INDUSTRIAL ZONE FORMS THE BASIS THREADED ROD HANGER CLIP CAM LOCK FOR RECOMMENDING A METAL PANEL EXTERIOR, CAREFUL CONSIDERATIONS SHOULD BE GIVEN TO THE COLOR OF THE WAREHOUSE MASS AND THE CAM LOCKING DEVICE -WALL TYPE SELECTION FOR THE ADMINISTRATIVE AND WAREHOUSE AREAS.
WALL TYPES RANGING FROM BRICK TO STUCCO AND MATCHING METAL
PANELS ARE INCLUDED IN ORDER TO RELATE TO THE INSTALLATIONS ARCHITECTURAL THEME. MECHANICAL SYSTEM (OPTIONAL LOCATION) THE WAREHOUSE FACILITIES ARE DESIGNED AROUND THE "INTERIOR VAPOR BARRIER SYSTEM" CONCEPT. THE CONCEPT INVOLVES THE UTILIZATION OF A 3'-0"
CLEAR AREA
PER DOD 4(45,19-R-1 CONVENTIONAL NONCOMBUSTIBLE EXTERIOR ENVELOPE WITH AN INTERIOR INSULATION AND VAPOR BARRIER ENVELOPE WITHIN THE OVERALL BUILDING FOR ALL LOW TEMPERATURE SPACES, THE INTERIOR ENVELOPE UTILIZIES FOAMED-IN-PLACE METAL SANDWICH PANELS FOR WALLS AND CEILINGS WITH FLOOR INSULATION AND A FLOOR WARMING SYSTEM BELOW THE CONCRETE FLOOR SLAB. QUALITY OF FACTORY ASSEMBLY OF THE METAL PANELS ALONG WITH PROPER DETAILING OF PENETRATIONS ARE CRITICAL INSULATED METAL CEILING PANEL - CAM LOCKING DEVICE INSULATED METAL WALL PANEL ELEMENTS IN MAINTAINING CONTINUITY IN THE VAPOR BARRIER FOR THE LOW TEMPERATURE SPACES. THE ROOF OF THE EXTERIOR ENVELOPE SHALL STEEL GIRT WARM πiπ COLD BE DESIGNED IN ACCORDANCE WITH THE ARCHITECTURAL AND ENGINEERING INSTRUCTIONS-DESIGN CRITERIA WITH RESPECT TO ROOF SLOPE AND WARM MATERIAL SELECTION. STEEL COLUMN-SEAL ANT THE INTERIOR CROSS SECTION OF THE FACILITY HOUSES THE STORAGE AID SYSTEM, CLEAR SPACE ABOVE PER DOD CRITERIA, UTILITIES ZONE AND THE DEPTH OF STRUCTURE, LOW TEMPERATURE SPACES REDUIRE CONCRETE CURB CONCRETE FLOOR SLAB FLOOR INSULATION AND THE OEPTH OF STRUCTURE.LOW TEMPERATURE SPACES REQUIRE ADDITIONAL HEIGHT IN THE OVERALL CROSS SECTION DUE TO THE INTERIOR ENVELOPE WITHIN THE BUILDING, OVERALL HEIGHT IS PRIMARRLY DICTATED BY THE STORAGE CONFIGURATION WHICH IS A 4 HIGH RACK SYSTEM IN THE SMALL AND 5 HIGH IN THE MEDIUM AND LARGE FACILITIES, INTERIOR SPACE ABOVE THE ADMINISTRATIVE CORE IS DEDICATED TO MECHANICAL AND ELECTRICAL EQUIPMENT ACCESSED BY STAIRS DIRECTLY FROM THE 25'-6' 5 HIGH STORAGE SYSTEM MEDIUM & LARGE TISA VAPOR BARRIER 6° TYPICAL
3'-0° AT FREEZER
SIDE (OPTIONAL
LOCATION FOR FLOOR
WARMING HEADERS) FLOOR GRID SLAB EEE . 0 00 EXTERIOR, ALTHOUGH THE FINAL LOCATION OF THE MECHANICAL AND ELECTRICAL ROOM IS OPTIONAL (SITE SPECIFIC) DIRECT ACCESS FROM FLOOR WARMING AND-FLOOR INSULATION AT LOW TEMPERATURE SPACES ONLY THE EXTERIOR IS MANDATONY. ADDITIONAL DESIGN CONSIDERATIONS FOR THE EQUIPMENT MEZANNE OPTION NOLIDIC ADQUATE CELLING STRUCTURE, WEZZANNE OPTION NOLIDIC ADQUATE CELING STRUCTURE, WEZZANNE CHOTON NOLIDIC ADQUATE AND DOUBLE DOORS, FROM THE MEZZANNE LEVEL TO THE NTERIOR WAREHOUSE TO ALLOW THE PLACEMENT & REMOVAL OF COUPMENT BY THE FACILITY'S MATERIAL HANDLING EQUIPMENT. - CASE FLOW RACKS OPERABLE WINDOWS SHALL BE PROVIDED IN ALL OCCUPIED SPACES OF THE ADMINISTRATIVE AND WAREHOUSE OFFICE AREAS, PROVISIONS FOR CLERESTORIES ARE INCLUDED TO OBTAIN NATURAL LIGHT IN THE DRY NOTE FACTORY MANUFACTURED PARTITION JUNCTURES ARE SHOWN, FIELD ASSEMBLED ARE OPTIONAL. TYPICAL SECTION TYPICAL ELEVATIONS TYPICAL DETAILS STRUCTURAL SYSTEMS STORAGE AIDS INTERIOR ENVELOPE AT LOW TEMPERATURE SPACES THE RECOMMENDED STRUCTURAL SYSTEM CONSISTS OF GALVANIZED METAL ROOF DECK SUPPORTED ON STEEL JOISTS, SPANNING BETWEEN STEEL FRAMES CONSISTING OF STEEL WIDE FLANGE BEAMS SUPPORTED PLAN DESIGNATION ON STEEL COLUMNS. SPACING OF STEEL COLUMNS SHALL BE INTEGRATED WITH THE STORAGE AID SYSTEM AND AISLE WIDTH. ROOF SLOPE IS PERPENDICULAR -THE ROOF STRUCTURE SHALL BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY ANY SUSPENDED CEILINGS INCLUDING BUT NOT LIMITED TO THE CEILING IN THE LOW TEMPERATURE SPACES. STUCCO THE RECOMMENDED WAREHOUSE EXTERIOR ENVELOPE WILL CONSIST OF METAL PANELS SPANNING BETWEEN STEEL GIRTS SUPPORTED BY EXTERIOR COLUMNS. IN THE ADMINISTRATIVE AND WAREHOUSE OFFICE AREAS THE WALLS SHALL CONSIST OF LOAD BEARING MASONRY WITH AN OPTION OF CAVITY FOUR DIFFERENT EXTERIOR FINISHES. SPREAD FOOTINGS AND CONCRETE SLAB ON GRADE ARE INDICATED AS THE BASIC FOUNDATION TYPE AND FLOOR SLAB SYSTEM, FOUNDATIONS AND FLOOR SLAB DESIGNS SHALL BE MADE FOR THE SITE SPECIFIC BUILDING BASED ON LOCAL CONDITIONS, SOILS REPORTS AND RIGID INSULATION RECOMMENDATIONS. THE SLAB ON GRADE SHALL BE DESIGNED TO ADEQUATELY SUPPORT THE RACK SYSTEM AND TO SUSTAIN TRAFFIC FROM THE MATERIAL HANDLING EQUIPMENT. WALLBOARD ON FURRING WALLBOARD ON FURRING W/INSULATION

PERIMETER INSULATION

OPTIONAL WALL TYPES

ADMINISTRATION AND WAREHOUSE OFFICE AREAS

"moderate and the second secon

WALL TYPE "C"

LOAD BEARING W/STUCCO

PERIMETER INSULATION

WALL TYPE "A"

LOAD BEARING W/BRICK OR SPLIT-FACE CMU VENBER

PERIMETER INSULATION

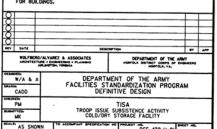
WALL TYPE "B"

LOAD BEARING W/EXTERIOR INSULATION & FINISH SYSTEM

COMPLETE STRUCTURAL DESIGNS MUST FOLLOW RECOMMENDATIONS

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AND REQUIREMENTS AS SET FORTH IN TECHNICAL MANUALS TMS-809-1/ AFM 88-3, CHAPTER I, FOR LOAD ASSUMPTIONS FOR BUILDINGS. TMS-809-10/AFM 88-3, CHAPTER IS FOR SEISMIC DESIGN AND TMS-809-3/AFM 88-3, CHAPTER 3 FOR MASONRY STRUCTURAL DESIGN



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NOTES:
I. PARAPETS ARE OPTIONAL

2.MINIMUM ROOF SLOPE SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL AND ENGINEERING INSTRUCTIONS-DESIGN CRITERIA.

WALL TYPE "D"

LOAD BEARING W/METAL PANELS

3. WALL TYPES 'C' AND 'D' INDICATE SECTION CUT IN DIRECTION OF ROOF SLOPE AND WITHOUT PARAPET.

CORPS OF	LitoralLito		C	ORY STORAGE			FREEZER			
1	A-RA PALLET POSITIONS	ATIONS IS FLOW LANES	A-RATIONS ICONDIMENT	TS) W LANES MRE (MEALS READY TO EAT)	T-RATIONS PALLET POSITIONS	A-RATIONS PALLET POSITIONS FLOR	ICE T LANES T-RATIONS			
MEN	8E0'D M.'S			010/ML'S PALLET POSITIONS	T-RATIONS MILK (UHT)		TO/ME'S PALLET POSITIONS	MEN	PROCESS FOR DETERMINATION OF TOTAL STORAGE REQUIREMENTS	GENERAL DESCRIPTION
1,000 2,000	120 89 205 125		24 21 33 24	222 30 216 60	160 24 320 48	80 59 121 71	48 IO 24 20	1,000 2,000	ENTER TROOP STRENGTHS PER CATEGORY.	THE SIZE AND SHAPE OF A TISA WAREHOUSE IS DEPENDENT ON
3,000	260 138	60	68 50	166 90	480 72	162 . 75	16 29	3,000	I. BARRACKS CAPACITY 2. TRADOC FACILITY (LINE I. x .95)	THE TROOP STRENGTH THE FACILITY IS TO SUPPORT AND THE NUMBER OF STORAGE AREAS REQUIRED WITHIN THE FACILITY BASED ON
5,000	363 I52		76 53 90 59	160 120 148 150	639 96 799 120	202 80 237 80	6 39 6 48	5,000	3. FORSCOM FACILITY (LINE I. x .70)	STORAGE TEMPERATURES AND HUMIDITIES REQUIRED TO ACCOMMODATE THE RANGE OF SUBSISTENCE ITEMS. THIS DEFINITIVE ALLOWS
6,000	421 156	24	102 60	144 180	959 144	272 80	6 58	6,000	4. 14 DAY RESERVES IN TRAINING	ADAPTATION TO THE TISA REQUIREMENTS BASED ON LOCALLY COMPUTED TROOP STRENGTHS GIVING CONSIDERATION TO THE VARIANCE IN
7,000 8,000	473 IS9 522 I6I		121 72 132 77	120 210 112 240	1119 168 1278 192	305 80 347 80	6 67	7,000 8,000	5. HOSPITAL BED CAPACITY	STORAGE INVENTORY IN THE DRY (SEMI-PERISHABLE), FREEZER,
9,000	568 162		140 77	112 270	1438 216	382 81	4 86	9,000	6. TOTAL (2 OR 3 PLUS 4 & 5) 7. CASH SALES (LINE 2 OR 3 x .IS)	PERISHABLE COOLER, SENSITIVE AND HARDY VEGETABLE & FRUIT COOLERS, ONION AND POTATO STORAGE AND MRE & T-RATIONS.
11,000	625 164 673 164		148 80 159 80	106 300 106 330	1598 240 1757 264	414 81 451 81	4 96 4 105	11,000	8. TOTAL (LINES 6 AND 7)	A SERIES OF DESIGN STORAGE INVENTORY TABLES HAVE BEEN
12,000	722 164		168 80	106 360	1917 288	486 81	4 II5	12,000	 WEEKEND RESERVES - 2 LUNCHES PER WEEKEND WEEKEND RESERVES SUPPORTED 	DEVELOPED BY STORAGE AREA TYPE FOR A-RATIONS, MRE, T-RATIONS AND A-RATIONS REQUIRED TO SUPPLEMENT OTHER RATIONS, THE
13,000	778 164 825 164		179 8I 183 8I	102 390 102 420	2077 3I2 2237 336	52I 83 558 83	0 124	13,000	FACTOR APPROPRIATE TROOP STRENGTH CATEGORIES INTO A	DESIGN STORAGE INVENTORY HAS BEEN BASED ON THE MASTER MENU
15,000	872 164		192 84	96 450	2396 360	592 83	0 143	15,000	COMPOSITE NUMBER FOR A-RATION DETERMINATION.	PLANNING SYSTEM AND ACCOUNTS FOR THE SEASONAL VARIANCE IN INVENTORY, THE MENU LINE ITEMS (ML'S) AS EXPRESSED IN THE
16,000 17,000	918 164 974 165		198 84	96 480 90 510	2556 384 2716 408	635 83 669 83	0 I53 0 I62	16,000	10. DRY - LINE 9 x .075= + LINE 8 = 11. DRY - ACCESSORIES & CONDIMENTS (A&C) -	MASTER MENU HAVE BEEN INCREASED BY 50 PERCENT TO ALLOW FOR VARIETY VARIANCE THROUGH THE USE OF ALTERNATE NATIONAL STOCK
18,000	1020 165		217 87	90 540	2875 432	700 83	0 172	18,000	LINE 9 x .075 = + LINE 8 =	NUMBERS (NSN) OR LOCAL STOCK NUMBER ITEMS PROCURED BY A TISA. STOCK NUMBERS WITH LESS THAN ONE QUARTER OF A PALLET ARE
20,000	1069 165		226 87 238 89	90 . 570 88 599	3035 456 3195 480	736 83 772 83	O 181 O 191	20,000	IZ. FREEZE -	STORED IN CASE FLOW LANES. ONE LANE IS PROVIDED FOR FULL CASE
21,000	1172 165		246 89	88 629	3355 504	799 83	0 200	21,000	LINE 9 x .064 = + LINE 8 = 13. PERISHABLE COOLER -	SELECTION AND ONE FOR PARTIAL CASE SELECTION (A 100% FACTOR). INVENTORY WITH CASE QUANTITIES GREATER THAN THOSE DEFINED
22,000	1225 165 1271 165		255 90 266 92	84 659 82 689	3514 528 3674 552	843 83 878 83	0 210	22,000	LINE 9 x .065 = + LINE 8 =	FOR FLOW LANES ARE INTENDED TO BE STORED IN SINGLE OR DOUBLE DEEP PALLET RACK. A IO PERCENT ALLOWANCE FOR PALLET
24,000	1316 165	6	273 92	82 719	3834 575	916 83	0 229	24,000	14. SENSITIVE VEGETABLE & FRUIT COOLER - LINE 9 x .130 = + LINE 8 =	RACK AND A IS PERCENT ALLOWANCE FOR MULTI-DEEP DRIVE-IN RACK HAS BEEN INCLUDED IN THE DESIGN INVENTORY TO ACCOUNT FOR
25,000 26,000	1379 165 1424 165		28i 93 29i 95	78 749 76 779	3994 599 4I53 623	948 83 983 83	0 238 0 248	25,000	IS. HARDY VEGETABLE & FRUIT COOLER -	LOSSES DUE TO LOT SIZE VARIANCE AND FLUCTUATIONS IN TURNOVER
27,000	1473 165		300 96	72 809	43/3 647 4473 67/	1016 83	0 257	27,000	LINE 9 x .211 = + LINE 8 = 16. ONIONS & POTATOES -	RATES.
28,000 29,000	1524 165 1582 165		307 96 321 101	72 839 64 869	4473 671 4632 695	1055 83 1089 83	0 267 0 276	28,000 29,000	LINE 9 x .072 =+ LINE 8 =	THE DAYS OF SUPPLY INCORPORATED INTO THE TABLES ARE AS FOLLOWS:
30,000	1624 165		326 101	64 899	4792 719	1126 83	0 - 286	30,000	DIRECTLY ENTER DATA POINT TABLES WITH COMPOSITE NO.S	DRY (SEMI-PERISHABLE) 30 DAYS
31,000	1678 167 1719 167		340 IOI 344 IOI	64 929 64 959	4952 743 5112 767	1157 83 1205 83	0 296 0 305	31,000	FROM LINES 10-16. INTERPOLATE AS REQUIRED AND DETERMINE THE A-RATIONS REQUIREMENT PER STORAGE AREA.	MILK UHT IS DAYS FREEZER 30 DAYS
33,000	1778 167		356 101	64 989	5271 791	1236 83	0 3/5	33,000	PALLETS ML'S LANES	ICE "T" SUPPLEMENT 3 DAYS
34,000 35,000	1826 167 1874 168		369 101 383 101	64 1019 64 1049	543i 8i5 559i 839	1269 83 1302 83	0 324	34,000 35,000	17. DRY - W/O A&C - LINE IO	PERISHABLE COOLER 30 DAYS FRESH MILK 3 DAYS
36,000	1921 168		387 101	64 1079	5750 863 5910 887	1340 83	0 343	36,000	19. DRY TOTAL - LINE 17 + 18	BREAD 3 DAYS SENSITIVE VEGETABLE 3 DAYS
37,000 38,000	1975 168 2022 168		396 IOI 402 IOI	64 1109 64 1139	59IO 887 6070 9II	1378 83 1415 83	0 353 0 362	37,000 38,000	20. FREEZER - LINE 12	SENSITIVE FRUIT 7 DAYS "Y" SUPPLEMENT 3 DAYS
39,000	2077 168		412 102	60 1168 60 1198	6230 935 6389 959	1448 83 1485 83	0 372 0 38i	39,000	LINE I3	ONIONS AND POTATOES IS DAYS
40,000	2126 168 PEDICH	HABLE COOLER	420 102			1463 63	0 36	40,000	22. SENSITIVE VEGETABLE & FRUIT COOLER	MRE AND T-RATIONS IS DAYS
			SENSITIVE	VEGETABLE & FRUIT COOLER	HARDY VEGETABLE &	FRUIT COOLER	ONION & POTATO COOLER		LINE 14	THE CORN IN THE ADMEDIT LEFT COLUMN THE REFU DOCUMENTS TO
1	A-RATION		SENSITIVE	VEGETABLE & FRUIT COOLER	HARDY VEGETABLE &		ONION & POTATO COOLER	+	23. HARDY VEGETABLE & FRUIT COOLER	THE FORM IN THE ADJACENT LEFT COLUMN HAS BEEN PROVIDED TO CALCULATE THE STORAGE INVENTORY, IT IS NECESSARY THAT THE
uc.	A-RATION PALLET POSITIONS	FLOW LANES T-RATIONS	(BREAD)	A-RATIONS PALLET POSITIONS PEOP LANES	A-RATIONS PALLET POSITIONS FLOW LANES	T-RATIONS	A-RATIONS PALLET POSITIONS FLOW LANES		23. HARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES	CALCULATE THE STORAGE INVENTORY. IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SEQUENCE. THE STORAGE INVENTORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF
MEN	PALLET POSITIONS REO'D ML'S	FLOW LANES T-RATIONS REO'D/ML'S PALLET PO	IBREADI SITIONS	A-RATIONS PALLET POSITIONS PEOP LANES REOTO M.S REOTO/ML'S	A-RATIONS PALLET POSITIONS FLOW LANES REO'D ML'S REO'D/ML'S		A-RATIONS PALLET POSITIONS FLOW LANES REO'D ML'S REO'D/AL'S	MEN	23. HARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES LINE I6	CALCILATE THE STORAGE INVENTIORY, IT IS INCESSARY THAT THE FORM BE COMPLETED IN LINE MANBER SCOURMEC. THE STORAGE INVENTORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEAR THEREFORE, IT IS NECESSARY TO DEVELOP THE COMPOSITE TROOP SUPPORT REQUIREMENT IN THE TOP SECTION
MEN 1,000 2,000	A-RATION PALLET POSITIONS REO'D ML'S 36 18	FLOW LANES T-RATIONS REO'D/ML'S PALLET PO	(BREAD)	A-RATIONS PALLET POSITIONS PEOP LANES	A-RATIONS PALLET POSITIONS FLOW LANES REOTO ML'S REOTO/AL'S 13 11 16	T-RATIONS	A-RATIONS PALLET POSITIONS FLOW LANES	1,000	23. HARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES LINE I6 DETERMINE TROOP STRENGTHS FOR FIELD FEEDING	CALCULATE THE STORAGE INVENTORY. IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SEQUENCE. THE STORAGE INVENTORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEAR; THEREFORE, IT IS NECESSARY TO DEVELOP
1,000 2,000 3,000	### A-RATIONS PALLET POSITIONS REO'D ML'S 36 18 59 21 83 24	FLOW LANES	IBREADI SITIONS 22 3	### A-RATIONS #### LANES ####################################	A-RATIONS PALLET POSITIONS PLOW LANES REDD MLS REDD/MLS 13 11 16 20 11 6 21 17 0	T-RATIONS PALLET POSITIONS I 2 3	A-RATIONS PALLET POSITIONS PLOW LANES REOTO ML'S REOTO/AL'S 13	1,000 2,000 3,000	23. MARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES LINE I6 DETERMINE TROOP STRENGTHS FOR FIELD FEEDING AND ENTER DATA POINT TABLES, DESIGN VALUES, TO DETERMINE MRE, T-RATION AND SUPPORT ITEMS	CALCULATE THE STORAGE ENVENTIONY, IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SCOULENCE, THE STORAGE INVENTIORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEARY THEREFORE, IT IS NECESSARY TO DEVELOP THE COMPOSITE TROOP SUPPORT REQUIREMENT IN THE TOP SECTION OF THE FORM AND INTERPOLATE THE TABLES, DO MOT CONSTRUCT THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLESIS.
1,000	### A-RATIONS PALLET POSITIONS REO'D ML'S	RS FLOW LANES T-RATIONS REO'D/ML'S PALLET PC	IBREADI STIONS 2 3	A-RATIONS POSTIONS POST LANS REOTUNAS R	A-RATIONS PALLET POSITIONS RE070 ML'S RE070/ML'S 13 11 16 20 11 6	T-RATIONS PALLET POSITIONS	A-RATIONS PALLET POSITIONS FLOW LANES REO'D ML'S REO'D/AL'S 13 6 4 24 8 0	1,000	23. HARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES LINE I6 DETERMINE TROOP STRENGTHS FOR FIELD FEEDING AND ENTER DATA POINT TABLES, DESIGN VALUES, TO DETERMINE MRE, T-RATION AND SUPPORT ITEMS REQUIREMENTS PER STORAGE AREA.	CALCULATE THE STORAGE ENVENTIONY, IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SCOULENCE, THE STORAGE INVENTIORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEAR THEREFORE, IT IS NECESSARY TO DEVELOP THE COMPOSITE TROOP SUPPORT REQUIREMENT IN THE TOP SECTION OF THE FORM AND INTERPOLATE THE TABLES. DO NOT CONSTRUCT THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEIS. THE PHILOSOPHY OF TROOP STRENGTH SUPPORT CALCULATIONS IS AS FOLLOWS.
1,000 2,000 3,000 4,000 5,000	### A-RATION PALLET POSITIONS REO'O M.'S 36 18 59 21 83 24 105 26 128 27 152 30	RIS FLOW LANES T-RATIONS REO'D/MC'S PALLET PC 24 18 2 12 3 10 4 6 5	2 2 3 5 6 8 8 9 9	A-RATIONS PALLET POSTIGNE PROFILANS REOD M.'S REODUM'S 14 12 48 18 15 36 21 18 24 25 18 24 28 18 24 30 18 24	A-RATIONS PALLET POSITIONS R.OF LAMES REOTO MA. S REOTO MA. S	T-RATIONS PALLET POSITIONS 1 2 3 3 4 5	### A-RATIONS PALLET POSITIONS #### REOTO M. S ### REOTO M.	1,000 2,000 3,000 4,000 5,000	23. MARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES LINE I6 DETERMINE TROOP STRENGTHS FOR FIELD FEEDING AND ENTER DATA POINT TABLES, DESIGN VALUES, TO DETERMINE MRE, T-RATION AND SUPPORT ITEMS REQUIREMENTS PER STORAGE AREA. 25. T & MRE RATIONS MEN IN FIELD GREAK TRAINING MONTH)	CALCULATE THE STORAGE ENVENTIORY, IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SCIULING. THE STORAGE INVENTORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEAR THEREFORE, IT IS NECESSARY TO DEVELOP THE COMPOSITE TROOP SUPPORT ROUBELENT IN THE TOP SECTION OF THE FORM AND INTERPOLATE THE TABLES. <u>DO NOT</u> CONSTRUCT THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEIS. THE PHILOSOPHY OF TROOP STRENGTH SUPPORT CALCULATIONS IS AS FOLLOWS: FULL A RATIONS OR EQUIVALENT!
1,000 2,000 3,000 4,000 5,000	A-RATION PALLET POSITIONS REO'D ML'S 36 IB 59 21 83 24 105 26 128 27	PLOW LANES T-RATIONS PEDID/MA'S PALLET PO 24 18 22 10 4 6 5 0 6	1896EADI 57110MS 22 33 55 66	A-RATIONS FOW LANES REOD MA'S REOD/MA'S REOD/MA'S REOD/MA'S 24 REOD/MA'S REO	A-RATIONS ROT LIMES REODVILS	T-RATIONS PALLET POSITIONS 1 2 3 3	A-RATIONS REOTO MA'S RE	1,000 2,000 3,000 4,000 5,000	23. HARDY VEGETABLE & FRUIT COOLER LINE 15 24. OHIONS & POTATOES LINE 16 DETERMINE TROOP STRENGTHS FOR FIELD FEEDING AND ENTER DATA POINT TABLES, DESIGN VALUES, TO DETERMINE MRE, T-RATION AND SUPPORT ITEMS REQUIREMENTS PER STORAGE AREA. 25. T & MRE RATIONS MEN IN FIELD (PEAK TRAINING MONTH) PALLETS	CALCULATE THE STORAGE ENVENTIONY, IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SCOULENCE, THE STORAGE INVENTIORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEAR THEREFORE, IT IS NECESSARY TO DEVELOP THE COMPOSITE TROOP SUPPORT REQUIREMENT IN THE TOP SECTION OF THE FORM AND INTERPOLATE THE TABLES. DO NOT CONSTRUCT THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEIS. THE PHILOSOPHY OF TROOP STRENGTH SUPPORT CALCULATIONS IS AS FOLLOWS: FULL A RATIONS OR EQUIVALENT! BARRACKS CAPACITY HOSPITAL BED CAPACITY H DAY RESERVE! TRANSHO SCHEDULE
1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000	A-RATION A-RATIONS RECOTO M.S. 36 IB. 59 2! 83 24 105 26 105 26 107 3 30 173 30 193 30	RS ROW LANES T-RATIONS REGOVAL'S PALLET PC	SREAD STIONS	A-RATIONS POSTIGNS POST LANS MC970_M_S 14 12 M6970_M_S 16 15 36 21 18 24 25 18 24 28 18 24 30 18 24 32 18 24 33 18 24 34 35 18 24	A-RATIONS R-OF LANES ROOT-MAS ROOT-M	T-RATIONS PALLET POSITIONS 1 2 3 4 5 6 7	### A-RATIONS PALLET POSITIONS ROW LANES	1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000	23. MARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES LINE I6 DETERMINE TROOP STRENGTHS FOR FIELD FEEDING AND ENTER DATA POINT TABLES, DESIGN VALUES, TO DETERMINE MRE, T-RATION AND SUPPORT ITEMS REQUIREMENTS PER STORAGE AREA. 25. T & MRE RATIONS MEN IN FIELD GREAK TRAINING MONTH)	CALCULATE THE STORAGE ENVENTIORY, IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SCOULENCE, THE STORAGE INVENTORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEAR THERFORE, IT IS NECESSARY TO DEVELOP THE COMPOSTE TROOP SUPPORT ROUBELWENT IN THE TOP SECTION OF THE FORM AND WITEPPOLATE THE TABLES, DO MOIT CONSTRUCT THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEIS). THE PHILOSOPHY OF TROOP STRENGTH SUPPORT CALCULATIONS IS AS FOLLOWS: OF FULL A RATIONS PAGE TO THE TABLES OF THE TABLEIS OF STRENGTH SUPPORT CALCULATIONS OF COLLYLENTI BIOSPITAL BED CAPACITY IN ONSPITAL BED CAPACITY IN ANY RESERVE TRAINING SCHEDULE OCASH SALES.
1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000	### A-RATION ### PALLET POSITIONS ### REOTO M. 'S	RCO LANES T-RATIONS REGORAL'S PALLET PC 24 18 12 20 00 0 0 10 0 10 0 12	(SREAD) (STIONS) (2) (3) (5) (6) (8) (9) (9) (9) (1) (4) (5) (7)	A-RATIONS REOD ML'S REOD/ML'S 14 12 48 18 15 36 21 18 24 25 18 24 30 18 24 30 18 24 31 18 24 32 18 24 33 18 24	A-RATIONS ROOT LINES REODYNES REODYN	T-RATIONS PALLET POSITIONS 1 2 3 3 4 5 5	A-RATIONS R.OW LANES REOTO MA'S REOT	1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000	23. HARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES LINE IS DETERMINE TROOP STRENGTHS FOR FIELD FEEDING AND ENTER DATA POINT TABLES, DESIGN VALUES, TO DETERMINE MRE, T-RATION AND SUPPORT ITEMS REQUIREMENTS PER STORAGE AREA. 25. I & MORE RATIONS MEN IN FIELD (PEAK TRAINING MONTH) PALLETS 26. DRY - MRK (UHT) 28. DRY - MRK (UHT) 28. DRY - MRE	CALCULATE THE STORAGE ENVENTIORY, IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SCOULENCE, THE STORAGE INVENTORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEARY THEREFORE, IT IS NECESSARY TO DEVELOP THE COMPOSTE TROOP SUPPORT ROUBREWENT IN THE TOP SECTION OF THE FORM AND WITERPOLATE THE TABLES, DO MOT CONSTRUCT THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEIS, INTERPOLATIONS OF THE TABLEIS, INTERPOLATIONS OF THE TABLEIS, INTERPOLATIONS OF SUPPORT CALCULATIONS OF SUPPORT OF THE TABLEIS, INTERPOLATIONS OF SUPPORT OF THE TABLEIS, INTERPOLATIONS OF SUPPORT OF THE TABLEIS, INTERPOLATIONS OF SUPPORT OF THE TABLEIS, INTERPOLATION OF THE TABLEIS, IN
1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 11,000 12,000	#-RATION PALLET POSTROKS #60°D ML'S 36 18 59 21 83 24 105 26 128 27 152 30 173 30 193 30 238 30 238 30 258 30	RS FLOW LANES T-RATIONS RED'UNAL'S PALLET PC	SREAD	A-RATIONS POW LARKS 6600 M.S REOTIONS 14 12 48 18 15 36 21 18 24 25 18 24 26 18 24 30 18 24 31 18 24 31 18 24 32 18 24 35 18 24 46 22 8 47 23 8	A-RATIONS R-OF LANES REOT ALS REOT A	T-RATIONS PALLET POSITIONS 1 2 3 3 4 5 5 6 7 7 7 8 9 9	A-RATIONS ROW LARES REO'D MA'S REO'D	1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 11,000 12,000	23. HARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES LINE IS DETERMINE TROOP STRENGTHS FOR FIELD FEEDING AND ENTER DATA POINT TABLES, DESIGN VALUES, TO DETERMINE MRE, T-RATION AND SUPPORT ITEMS REQUIREMENTS PER STORAGE AREA. 25. TA WER RATIONS MEN IN FIELD GREAK TRAINING MONTHO 26. DRY - T-RATIONS 27. DRY - MILK ULHTI) 28. DRY - MRE 29. TOTAL DRY (LINE 26+27+28)	CALCULATE THE STORAGE ENVENTIORY, IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SCOULENCE, THE STORAGE INVENTORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEAR THEREFORE, IT IS NECESSARY TO DEVELOP THE COMPOSITE TROOP SUPPORT ROUBEMENT IN THE TOP SECTION OF THE FORM INTERPOLATE THE TABLES. <u>DO NOT</u> CONSTRUCT THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEISI, THE PHILOSOPHY OF TROOP STRENGTH SUPPORT CALCULATIONS IS AS FOLLOWS: FULL A RATIONS OR EQUIVALENT: BURRACKS CAPACITY TO THE TABLES OF THE T
1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 11,000 12,000 14,000	#-RATION FALLET POSTRING REO'D M.1.5 Sec. 24 Sec. 27 S	RS FLOW LAMES T-RATIONS RED'OWAL'S PALLET PC	SREAD STIONS 2 2 3 5 6 6 8 9 9 18 18 2 2 4 4 5 5 7 7 6 0 0 18 18 18 18 18 18	A-RATIONS PALLET POSTIGNE POST LANS REOD M.'S REOD/M.'S 14 12 48 18 15 36 21 18 24 25 18 24 28 18 24 30 18 24 30 18 24 31 18 24 31 18 24 31 18 24 31 18 24 31 30 31 24 31 30 31 24 31	A-BATIONS R-OF LAMES REOTH ALS	T-RATIONS PALLET POSITIONS 1 2 3 3 4 5 5 6 7 7 8	### A-RATIONS PALLET POSITIONS ROF LANES	1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 11,000 12,000 13,000	23. HARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES LINE IS DETERMINE TROOP STRENGTHS FOR FIELD FEEDING AND ENTER DATA POINT TABLES, DESIGN VALUES, TO DETERMINE MRE, T-RATION AND SUPPORT ITEMS REQUIREMENTS PER STORAGE AREA. 25. I & MORE RATIONS MEN IN FIELD (PEAK TRAINING MONTH) PALLETS 26. DRY - MRK (UHT) 28. DRY - MRK (UHT) 28. DRY - MRE	CALCULATE THE STORAGE ENVENTIONY, IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SCOULENCE, THE STORAGE INVENTORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEAR THERFORE, IT IS NECESSARY TO DEVELOP THE COMPOSITE TROOP SUPPORT REQUIREMENT IN THE TOP SECTION OF THE FORM AND INTERPOLATE THE TABLES. DO NOT CONSTRUCT THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLESIS. THE PHILOSOPHY OF TROOP STRENGTH SUPPORT CALCULATIONS IS AS FOLLOWS: FULL A RATIONS OR EQUIVALENT! BARRACKS CAPACITY HOSPITAL BED CAPACITY H DAY RESERVE TRAINING SCHEDULE CASH SALES ORT TROOPS HISTORICAL AVERAGE) WEXELIND RESERVES VEX. WEEKEND RESERVES VEX. WEEKEND RESERVES VEX. WEEKEND LINCHES VEX. WEEKEND MEEK TO FULL A RATION VOLUMED PER MONTH.
1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 11,000 12,000 14,000 15,000	### ##################################	ROW LANES PRODUMES PALLET PO	(SREAD) (STIONS) 2 2 3 5 5 6 6 8 9 9 81 2 4 4 5 5 7 6 0 0 1 1 3 3	A-RATIONS PALLET POSTIGNE PROF LANES REOTO M.'S REOTO/M.'S 14 12 48 18 15 36 21 18 24 25 18 24 25 18 24 30 18 24 30 18 24 31 18 24 31 18 24 31 18 24 31 18 24 31 28 8 31 32 8 31 32 8 31 32 8 31 32 8 31 32 8 31 32 8 32 8 33 8 34 22 8 35 8 36 22 8	A-BATIONS R.OF LAMES REOTO Mr. S REO	T-RATIONS PALLET POSITIONS 1 2 3 3 4 5 6 7 7 8 9 10 10 11	### A-RATIONS ####################################	1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 11,000 12,000 12,000 14,000 15,000	23. HARDY VEGETABLE & FRUIT COOLER LINE IS 24. ORIGINS & POTATOES LINE IS DETERMINE TROOP STRENGTHS FOR FIELD FEEDING AND ENTER DATA POINT TABLES, DESIGN VALUES, TO DETERMINE MRE, T-RATION AND SUPPORT ITEMS REQUIREMENTS PER STORAGE AREA. 25. T & MRE RATIONS MEN IN FIELD (PEAK TRAINING MONTH)	CALCULATE THE STORAGE ENVENTIORY, IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE NUMBER SCOULENCE, THE STORAGE INVENTIORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEARY THEREFORE, IT IS NECESSARY TO DEVELOP THE COMPOSITE TROOP SUPPORT REQUIREMENT IN THE TOP SECTION OF THE FORM AND INTERPOLATE THE TABLES, DO NOT CONSTRUCT THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEIS), SAS FOLLOWS: OF FULL A RATIONS OR EQUIVALENT! BARRACKS CAPACITY HE DAY RESERVE TRAINING SCHEDULE CASH SALES OCHES OF THE SERVE TRAINING SCHEDULE CASH SALES DISTORICAL AVERAGED WEEKEND RESERVES
1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 11,000 12,000 14,000 15,000 16,000 17,000	#-RATION PALLET POSTROKS #6070 ML'S 36 18 36 18 59 21 83 24 105 26 128 27 152 30 173 30 193 30 238 30 238 30 258 30 279 30 343 30 362 30 362 30	ROW LANES PRODUME'S PALLET PAL 24 18 27 10 10 10 10 10 10 10 10 10 1	SPEAD STIONS 2 3 5 5 6 6 6 6 6 6 6 6	A-RATIONS A-RATI	A-BATRIONS R-ON LANES REOD ML'S RE	T-RATIONS PALLET POSITIONS 1 2 3 3 4 5 5 6 7 7 7 8 9 10 10 11 12	A-RATIONS ROW LARS ROW LARS REODOM. S REODOM.	1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 11,000 12,000 13,000 14,000 15,000 16,000 17,000	23. HARDY VEGETABLE & FRUIT COOLER LINE IS 24. ONIONS & POTATOES LINE IS DETERMINE TROOP STRENGTHS FOR FIELD FEEDING AND ENTER DATA POINT TABLES, DESIGN VALUES, TO DETERMINE MRE, T-RATION AND SUPPORT ITEMS REQUIREMENTS PER STORAGE AREA. 25. T & MER RATIONS MEN IN FIELD GREAK TRAINING MONTHS 26. DRY - T-RATIONS 27. DRY - MILK UHIT) 28. DRY - WIRE 29. TOTAL DRY (LINE 26+27+28) 30. FREEZER GLES 31. COOLER - PERISHABLE (BREAD) 32. COOLER - PERISHABLE (BREAD) ADD THE INDIVIDUAL STORAGE REQUIREMENTS	CALCULATE THE STORAGE ENVENTIORY, IT IS NECESSARY THAT THE FORM BE COMPLETED IN LINE HUMBER SCULENCE, THE STORAGE INVENTIORY VALUES VERSUS TROOP STRENGTH FOR ALL RANGES OF VALUES ARE NOT LINEARY THEREFORE, IT IS NECESSARY TO DEVELOP THE COMPOSITE TROOP SUPPORT REQUIREMENT IN THE TOP SECTION OF THE FORM AND INTERPOLATE THE TABLES, DO NOT CONSTRUCT THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEIS), THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEIS), THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEIS), THE INVENTORY VALUES BY ADDING DIFFERENT LINES OF THE TABLEIS), THE INVENTORY OF TROOP STRENGTH SUPPORT CALCULATIONS IS AS FOLLOWS: FULL A RATIONS OR EQUIVALENT; BERRACKS CAPACITY CITY IN DAY RESERVE TRAINING SCHEDULE CASH SALES DISTORICAL AVERAGED **WEEKEND RESERVES** LUNCIES FOR WEEKEND BASED ON RATIO 2 WEEKEND LUNCHES YOULIMDE PER WEEK TO FULL A RATION YOULIMDE PER MONTH. **MRE A T RATIONS** PER MAN PER DAY IN THE FIELD. THE DATA TABLES AND PROCESS FORM ARE MANDATORY ELEMENTS OF
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