

DESIGN DATA & ANALYSIS

ROOM	CLEAR HGT. REQUIRED	DIMENSIONS ON THIS PLAN		LIVE LOADS	MECHANICAL			REMARKS AND ADDITIONAL REQUIREMENTS	
		INTERIOR	SQ. FT.		ELECTRICAL LIGHTING F.C.	SUPPLEMENTAL PLUMBING	VENTILATION		HEATING, AIR COND., ETC. CONTROL TEMP.
ENTRY CORRIDOR	9'-0"	5'-4" X 21'-0"	112		30	NONE	NONE	NONE	
ENTRY CONTROL ROOM	8'-6"	4'-0" X 10'-0" 6'-8" X 6'-8"	144	SEE STRUCTURAL NOTE THIS SHEET	50	NONE	SEE NOTE	PERSONNEL COMFORT SEE NOTE	
SITE SECURITY CONTROL CENTER	8'-6"	9'-8" X 11'-8"	114		30 GENERAL 50 LOCAL	NONE	SEE NOTE	PERSONNEL COMFORT SEE NOTE	
ALERT FORCE VEHICLE STORAGE	12'-0"	14'-0" X 22'-0"	308		10	FLOOR DRAIN	NONE	NONE	14 GA. STEEL OVERHEAD DOOR, ELECTRICALLY OPERATED
GENERATOR ROOM	10'-0"	7'-4" X 15'-4"	112		10	FLOOR DRAIN	10 AIR CHANGES PER HOUR	NONE	
MECHANICAL ROOM	10'-0"	6'-0" X 15'-4"	92		10	FLOOR DRAIN, WATER HEATER, HOSE BIBB	10 AIR CHANGES PER HOUR	PERSONNEL COMFORT SEE NOTE	DOORS BETWEEN MECHANICAL EQUIPMENT ROOM AND READY ROOM AND MECHANICAL EQUIPMENT ROOM AND GENERATOR ROOM SHALL BE PROVIDED WITH PANIC EXIT DEVICE W/NO HARDWARE ON MECH. ROOM SIDE
READY ROOM	8'-6"	10'-4" X 11'-4" 3'-8" X 5'-4" 11'-0" X 21'-8"	375		30	ELECTRIC WATER COOLER KITCHEN UNIT	SEE NOTE	PERSONNEL COMFORT SEE NOTE	CD - CONNECTED DRAIN
TOILET	8'-6"	5'-4" X 8'-8" 4'-0" X 4'-0"	65		15	NONE	10 AIR CHANGES PER HOUR	PERSONNEL COMFORT SEE NOTE	
ARMS STORAGE	9'-0"	3'-4" X 4'-0"	14		10	NONE	NONE	NONE	
JANITOR'S CLOSET	9'-0"	3'-4" X 5'-0"	17		5	SERVICE SINK C.W. HW. CD	NONE	NONE	CD - CONNECTED DRAIN
SPIRAL STAIRS	6'-9" (MIN. HEADROOM)	5'-4" DIA.	21		20	NONE	NONE	NONE	
SECURITY GUARD TOWER	8'-0" (MIN.)	12'-4" DIA.	116		10	NONE	SEE NOTE	PERSONNEL COMFORT SEE NOTE	SPECIAL FIXTURES (STEP LIGHTS DIRECTING LIGHT DOWN) INSTALLED BELOW WINDOWS.

ELECTRICAL CONTINUED FROM SHEET NO. 1

- THE INTERIOR LIGHTING INTENSITIES SHOWN ARE AT WORKING LEVEL. ALL LIGHTING FIXTURES SHALL BE RAPID-START FLUORESCENT TYPE EXCEPT THAT INCANDESCENT TYPE SHALL BE USED IN SMALL STORAGE ROOMS AND JANITOR CLOSETS. EMERGENCY LIGHTING WITH BATTERY STANDBY, SHALL BE PROVIDED IN THE SITE SECURITY CONTROL CENTER THE ENTRY CONTROL ROOM, THE ENTRY CORRIDOR, READY ROOM, ALERT FORCE VEHICLE STORAGE, GUARD TOWER AND SPIRAL STAIR.
- EXTERIOR LIGHTING SHALL PROVIDE A MINIMUM LEVEL OF 2.0 FOOTCANDLES HORIZONTAL ILLUMINATION MEASURED 6 INCHES ABOVE GROUND LEVEL. THE AREA ILLUMINATED SHALL BEGIN 50 FEET INSIDE THE ENTRY POINT AND STOP 100 FEET OUTWARD FROM THE ENTRY POINT, AND SHALL EXTEND 25 FEET TO EITHER SIDE OF THE ROAD OR WALKWAY. THE AREA AROUND THE BUILDING EXTENDING 18 FEET OUTWARD ALSO SHALL BE ILLUMINATED. EXTERIOR LIGHTING CONTROLS SHALL BE LOCATED IN THE ENTRY CONTROL ROOM.
- ELECTRICAL CONTROLS FOR THE SECURITY TURNSTILES, SLIDING DOORS AND SLIDING GATES SHALL BE LOCATED IN THE ENTRY CONTROL ROOM.
- LOCATION OF POWER AND CONVENIENCE OUTLETS SHALL BE SELECTED BY THE DESIGN AGENCY.
- LIGHTING PROTECTION SHALL BE PROVIDED FOR THE SECURITY GUARD TOWER.

UTILITY REQUIREMENTS

WATER (GPM)

HOT 10  
COLD 25  
TOTAL 35

WATER (GPD)

TOTAL 240

SEWAGE (GPD)

TOTAL 240

HEATING REQUIREMENTS

BTU REQUIRED AT OUTSIDE DESIGN TEMPERATURES OF + 20°F 57,000 BTU/HR

HEATING PLANT

ELECTRICAL KW/HR 0.4  
FUEL OIL NO. 2 GPH 0.61 AT 65% OVERALL COMBUSTION EFFICIENCY

AIR CONDITIONING

DESIGN CONDITIONS

OUTSIDE 85°F DB 68°F WB  
INSIDE 75°F DB 50% RELATIVE HUMIDITY

COOLING LOAD 2-1/2 TONS

VENTILATION (FILTERED FRESH AIR)

10 AIR CHANGES PER HOUR WHEN HEATING OR COOLING IS NOT REQUIRED  
2 AIR CHANGES PER HOUR WHEN HEATING OR COOLING IS REQUIRED

- RELATED DRAWINGS:
- DEF 872-10-01 WEAPONS STORAGE AREA, FENCE DETAILS AND VEHICLE BARRIER
  - DEF 872-90-01 PERIMETER WARNING SIGN
  - DEF 812-30-01 WEAPONS STORAGE AREA, SECURITY LIGHTING SYSTEM.

GENERAL REVISIONS	DFH	6/92	DM
GENERAL REVISIONS	HSM		MD
SYMBOL	DESCRIPTION	BY	DATE
REVISIONS			
BLACK & VEATCH CONSULTING ENGINEERS KANSAS CITY, MISSOURI		DEPARTMENT OF THE ARMY OFFICE OF THE CHIEF OF ENGINEERS MILITARY CONSTRUCTION - ENGINEERING DIVISION WASHINGTON, D. C.	
DRAWN BY: DLQ	<b>WEAPONS STORAGE AREA ENTRY CONTROL FACILITY</b> (SMALL ARMS FIRE BULLET RESISTANT)		
TRACED BY: DLQ			
CHECKED BY: RWS			
SUBMITTED: WHM			
APPROVED: DATE: 3/16/87			
APPROVED FOR:	SCALE: NONE	SPEC. NO. NONE	DRAWING NUMBER
DEF 141-32-02		SHEET 2 OF 3	