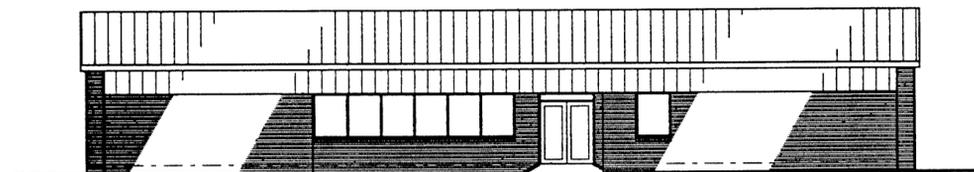


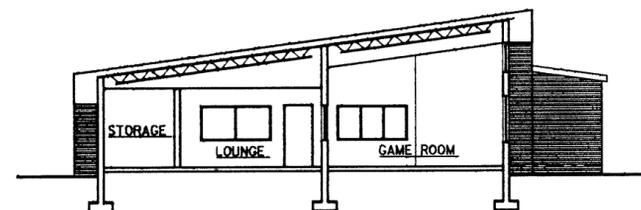
IV BACK ELEVATION



III LEFT SIDE ELEVATION



II MAIN FACADE



I BUILDING SECTION



ELECTRICAL DESIGN OBJECTIVES

DESIGN LIGHTING AND POWER DISTRIBUTION SYSTEMS IN ACCORDANCE WITH CURRENT CRITERIA CONTAINED IN THE DA "ARCHITECTURAL AND ENGINEERING INSTRUCTIONS, DESIGN CRITERIA" (AEI), THE USACE DESIGN FOA CRITERIA AND ANY MACOM CRITERIA. CHOOSE THE ELECTRICAL CHARACTERISTICS TO SUPPLY THE ELECTRICAL REQUIREMENTS IN THE MOST ECONOMICAL MANNER. MATCH THE MEDIUM VOLTAGE DISTRIBUTION WITH THE CHARACTERISTICS OF THE AVAILABLE UTILITY SOURCE. PROVIDE LOW VOLTAGE DISTRIBUTION OF THE HIGHEST ORDER CONSISTENT WITH THE LOAD SERVED. WHERE PRACTICAL, PROVIDE LOW VOLTAGE DISTRIBUTION OF 3 PHASE, 4 WIRE, 277/480 VOLT WYE, WITH 3 PHASE, 4 WIRE, 120/208 VOLT DRY TYPE TRANSFORMER PROVIDED FOR SMALL MOTOR LOADS AND RECEPTACLES. INCLUDE WATTHOUR/DEMAND METER FOR ELECTRICAL SERVICE AND INCLUDE COUNTER WHERE ENERGY MONITORING AND CONTROL SYSTEMS (EMCS) ARE INVOLVED.

CONVENIENCE OUTLETS SHALL BE PROVIDED IN ADEQUATE NUMBER AND APPROPRIATE TYPES AND LOCATIONS FOR ALL EQUIPMENT REQUIRING POWER SUPPLIES. POWER REQUIREMENTS SHOULD BE IDENTIFIED BY THE PROJECT DEVELOPMENT BROCHURE STAGE, AND SPECIFIC CONVENIENCE OUTLETS BY THE END OF CONCEPT DESIGN. THE DESIGNER SHOULD INTERFACE WITH THE USING SERVICE TO DETERMINE THE EXACT NUMBER AND LOCATION OF EQUIPMENT AND OUTLETS, PARTICULARLY FOR USER-FURNISHED EQUIPMENT. PROVIDE GFI OUTLETS OR BREAKERS IN TOILETS AND KITCHEN. COORDINATE LOCATIONS OF NECESSARY OUTLETS AND CONTROLS RACEWAYS IN THE LARGE MULTIPURPOSE ROOM FOR SCOREBOARD, STAGE, CLOCK, MIRRORRED BALL, SOUND SYSTEM, AND SCOREKEEPER'S TABLE.

PROVIDE HIGH BAY METAL HALIDE TYPE LIGHTING WITH WIRE GUARDS IN THE LARGE MULTIPURPOSE ROOM OF THE MAIN YC'S FOR LIGHTING. PROVIDE LARGE MULTIPURPOSE ROOM WITH SUPPLEMENTAL LIGHTING TO ACCOMMODATE ACTIVITIES SUCH AS DANCING AND MOTION PICTURES. PROVIDE APPROPRIATE "SPOT" LIGHTING FOR PORTABLE STAGE IN THE LARGE MULTIPURPOSE ROOM. PROVIDE PROTECTION FOR ALL LIGHTING IN THE LARGE MULTIPURPOSE ROOM TO PREVENT ABUSE. ALL LIGHTING CONTROLS FOR THE LARGE MULTIPURPOSE ROOM ARE TO BE LOCATED IN THE ADMINISTRATION AREA. UTILIZE INDIVIDUAL FIXTURES ALIGNED WITH GAME TABLES IN GAME ROOM, EXCEPT WHERE FLEXIBLE ARRANGEMENTS ARE FREQUENTLY NEEDED. INCLUDE DIMMING CAPABILITY FOR LIGHTING SYSTEM CONTROLS IN LOUNGES AND SMALL MULTIPURPOSE ROOM. HIGHLIGHT PROJECT AND TROPHY DISPLAY AREAS WITH SPECIAL LIGHTING. UTILIZE FLUORESCENT LIGHT FIXTURES FOR GENERAL LIGHTING THROUGHOUT THE REMAINDER OF THE BUILDING EXCEPT WHERE SINGLE BULB INCANDESCENT FIXTURES MIGHT BE UTILIZED IN SELDOM USED AREAS SUCH AS CLOSETS AND SMALL STORAGE ROOMS. WHERE PRACTICAL FOR INTERIOR LIGHTING, PROVIDE AREA SWITCHING, BI-LEVEL SWITCHING (INSIDE/OUTSIDE LAMPS/FIXTURES) AND THREE-WAY SWITCHING IN LARGER AREAS.

CONFORM TO AEI AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD NO. 101 FOR EXIT AND EMERGENCY LIGHTING SYSTEMS EMERGENCY POWER. PROVIDE AUXILIARY POWER FOR FIRE ALARMS AND EXIT LIGHTS, AND EMERGENCY LIGHTING SYSTEMS IN ACCORDANCE WITH AEI AND APPROPRIATE NFPA STANDARDS FOR GENERAL FIRE AND SAFETY REQUIREMENTS. COMPLY WITH AEI, NFPA, TM 5-812-1, MILITARY HANDBOOK 100B AND TM 5-813-6. PROVIDE APPROPRIATE POWER SOURCE AND COMMUNICATIONS SYSTEM CONNECTIONS FOR FIRE ALARM TRANSMISSION SYSTEM. ACCOMMODATE REQUIREMENTS FOR SMOKE DETECTORS, HEAT DETECTORS, FIRE ALARM SYSTEMS, AND SPRINKLER SYSTEMS AS NOTED IN "FIRE PROTECTION OBJECTIVES" AND AS REQUIRED BY LOCAL FIRE OFFICIALS.

COMMUNICATIONS TO BE PROVIDED WILL INCLUDE COMMERCIAL TELEPHONE AND PA SYSTEMS. THE TELEPHONE SYSTEM WILL INCLUDE PREWIRED OUTLETS, INSTRUMENTS, AND SWITCHING EQUIPMENT, WHERE REQUIRED. ALL COMMUNICATIONS REQUIREMENTS ARE TO BE FUNDED AS PART OF THIS CONTRACT ALTHOUGH COMMUNICATIONS DESIGN AND INSTALLATION MAY BE SEPARATE FROM THE REMAINDER OF THE WORK. CONDUIT AND BOXES WILL BE PROVIDED AT TELEPHONE LOCATIONS ON THE DEFINITIVE DRAWINGS FOR PUBLIC PAY PHONES TO BE INSTALLED BY OTHERS. THE TELEPHONE SWITCHING EQUIPMENT WILL BE LOCATED IN THE TELEPHONE CLOSET IN THE ADMINISTRATION MODULE; NOT IN THE MECHANICAL ROOM. PA SYSTEMS WILL BE LIMITED TO THOSE PROJECTS WHICH INCLUDE A LARGE MULTIPURPOSE ROOM. LOCATE PA SYSTEM EQUIPMENT AND ANY STEREOPHONIC SOUND REPRODUCTION EQUIPMENT IN THE OFFICES OR ISSUE ROOM TO PREVENT ABUSE AND ENSURE SECURITY. COORDINATE ANY COMPUTER REQUIREMENTS WITH THE USER. PROVIDE OUTLETS FOR PA SYSTEM AT SCORER'S TABLE LOCATION AND AT STAGE LOCATION.

INCLUDE PROVISIONS FOR CONNECTION OF THE HVAC EQUIPMENT AND UTILITY METERS TO THE INSTALLATION'S EMCS WHERE SUCH EXISTS, OR IS PLANNED.

PROVIDE FOR TELEVISION AND RADIO BROADCASTING OUTLETS AS IDENTIFIED BY THE USER. MAKE PROVISIONS FOR CABLE/SATELLITE TV ENTRANCES AND CONNECTION BOXES IN COORDINATION WITH THE SPECIFIC USER REQUIREMENTS. WHERE REQUESTED BY THE USER, PROVIDE FOR FM ANTENNA SYSTEM WITH OUTLETS IN DESIGNATED AREAS.

SEE "SITE DEVELOPMENT OBJECTIVES", "ARCHITECTURAL OBJECTIVES" AND "FIRE PROTECTION OBJECTIVES" FOR RELATED REQUIREMENTS. CONFORM TO TM 5-809-10 FOR SEISMIC DESIGN.

THIS DRAWING HAS BEEN REDUCED TO ONE-HALF THE ORIGINAL SCALE

DEPARTMENT OF THE ARMY
LITTLE ROCK DISTRICT, CORPS OF ENGINEERS
LITTLE ROCK, ARKANSAS

Designed by BH	 DEPARTMENT OF THE ARMY FACILITIES STANDARDIZATION PROGRAM DEFINITIVE DESIGN	YOUTH CENTER STANDARD DEFINITIVE DESIGNS ELEVATIONS PLAN F	
Drawn by DDM		Scale: AS SHOWN	Sheets: 10 OF 11
Checked by MAT	Approved by JLD	Date: JANUARY 1989	