

**SMALL CHAPEL-SCHEME A**  
**BUILDING RELATED INTERIOR DESIGN**

ROOM NO.	NAME	F-1 CARPET	F-2 CARPET	F-4 TILE	F-5 VCT	F-6 CUT	F-7 ENTRY MAT	F-8 WOOD BASE	W-1 HALL COVERS	W-2 CUT	W-3 MIRROR	W-4 BLINDS	W-5 WHITE BOARD	W-6 SIGNAGE	W-7 MOVABLE PLATFORM	E-2 ALTAR	E-4 CHURCH TABLE	E-6 LOCKER	E-6.1 PULPIT	E-7 CHANCEL CHAIR	E-8 BAPTISMAL FONT	E-10 KNEELER PRE-SHU	E-11 ALTAR RAIL	E-12 ART GLASS
1A Sanctuary 2A Storage 3A Sanctuary		X						X	X		X	X		X	X	X	X	X	X	X	X	X	X	X
4A Classroom 5A Chaplain's Office 6A Auditorium		X	X						X		X	X	X	X										
7A Circulation/Vestibule 8A Toilet 9A Toilet Shower				X		X	X			X				X	X									
10A Janitor 11A Mechanical 12A Classroom 13A Gathering Area		X							X			X	X	X	X									

**SMALL CHAPEL-SCHEME A**  
**FURNITURE RELATED INTERIOR DESIGN**

ROOM NO.	NAME	F-1 PER CHAIR	F-2 STACK CHAIR	F-3 SEC. TASK CH.	F-4 CHAPLAIN CHAIR	F-5 GUEST CHAIR	F-6 PULPIT TABLE	F-7 DESK	F-8 CHAPLAIN DESK	F-9 DESK TABLE	F-10 CHAIR BULLY	F-11 TABLE LAMP	F-12 REFRESH.	F-13 ORGAN	F-14 UPPOINT PLANO
1A Sanctuary 2A Storage 3A Sanctuary		X									X			X	X
4A Classroom 5A Chaplain's Office 6A Auditorium			X	X	X	X		X	X	X	X				
7A Circulation/Vestibule 8A Toilet 9A Toilet Shower															
10A Janitor 11A Mechanical 12A Classroom 13A Gathering Area			X				X					X			

**PROJECT DESCRIPTION CONTINUED FROM SHEET 5**

**MECHANICAL**

GEOGRAPHIC LOCATION AND CLIMATE SHALL DETERMINE THE BASIC REQUIREMENTS FOR HEATING AND COOLING. SELECTION OF ENERGY SOURCES FOR HEATING AND COOLING SHALL BE BASED ON LOCAL AVAILABILITY, FIRST COST AND LIFE CYCLE COSTS.

REQUIREMENTS FOR THE HEATING, VENTILATION AND AIR CONDITIONING (HVAC) SYSTEM SHALL BE DETERMINED BY THE CRITERIA PACKAGE PROVIDED WITH THE SPECIFIC PROJECT. BOTH FIRST COST AND LIFE CYCLE COSTS SHALL BE CONSIDERED IN SELECTING THE MOST APPROPRIATE HVAC SYSTEM. THE SIZE, NUMBER, AND LOCATION OF MECHANICAL EQUIPMENT ROOMS MAY BE ADJUSTED TO ACCOMMODATE THE SYSTEM CHOSEN. MECHANICAL/ELECTRICAL ROOMS ARE NOT TO BE USED FOR ANY OTHER PURPOSES UNLESS AGREED TO BY THE APPROPRIATE MECHANICAL/ELECTRICAL DESIGNERS. ANNUAL ENERGY USE FOR THE FACILITY SHALL MEET THE ENERGY BUDGET REQUIREMENTS OF THE PROJECT CRITERIA PROVIDED WITH THE SPECIFIC PROJECT.

ALL MECHANICAL SYSTEMS INCLUDING DUCTWORK WILL BE CONCEALED. THERMOSTATS AND OTHER CONTROLS, WHILE ACCESSIBLE TO THE STAFF, ARE TO BE PROVIDED WITH LOCKABLE COVERS AND LOCATED OUT OF PUBLIC VIEW. THE ZONES FOR EACH OF THESE BUILDINGS ARE: WORSHIP CENTER AND CLASSROOMS; GATHERING AREA AND SUPPORT FACILITIES; AND ADMINISTRATIVE AREAS. SUFFICIENT VENTILATION WILL BE NECESSARY IN THE TOILETS, JANITOR'S AREA AND GATHERING SPACE. ALL EXTERIOR MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE LOCATED WITHIN AN ENCLOSED AREA.

THE ARCHITECTURAL DESIGNER SHALL COORDINATE, EARLY IN DESIGN, TO ENSURE THAT SUFFICIENT CONCEALED SPACE IS PROVIDED IN WALLS AND ABOVE CEILINGS IN ORDER THAT THE HVAC DESIGNER MAY PROPERLY DESIGN A QUIET AND EVENLY DISTRIBUTED SUPPLY AND RETURN DUCTWORK SYSTEM. THE DUCTWORK SHALL BE LOCATED IN CONCEALED SPACES WHERE TRANSMISSION NOISE WILL NOT BE OBJECTIONABLE.

ACOUSTICS IS AN IMPORTANT CONSIDERATION IN THE DESIGN OF THE SMALL CHAPEL. THE DESIGNER SHALL MAKE EVERY EFFORT TO ENSURE THAT AN NC RATING OF 25 OR LESS IS ACHIEVED IN ALL OCCUPIED SPACES OF THE BUILDING. CONSIDERATION SHALL BE GIVEN TO AIR VELOCITY THROUGH DUCTS AND DIFFUSERS; DUCT LINING AND SOUND ATTENUATORS; AND THE RECOMMENDATIONS OF ASHRAE, SMACNA, AND APPLICABLE SPECIFIC CRITERIA.

AN ENERGY MANAGEMENT SYSTEM WITH OVERRIDE CAPACITY ACCESSIBLE TO THE USER SHALL BE PROVIDED. THE POSSIBLE REQUIREMENT FOR A FUTURE CONNECTION TO A BASEWIDE EMCS SHALL BE INVESTIGATED, AND APPROPRIATE PROVISIONS MADE.

**ELECTRICAL**

THE ELECTRICAL REQUIREMENTS WILL CONSIST OF LIGHTING, POWER, FIRE ALARM AND DETECTION, TELEPHONE, INTERCOM, P.A., AND OTHER AUXILIARY SYSTEMS AS INDICATED IN THE PROJECT CRITERIA. LIGHTNING AND CATHODIC PROTECTION SYSTEMS SHALL BE PROVIDED AS REQUIRED BY THE GEOGRAPHICAL LOCATION AND SOIL CORROSIVITY.

LIGHTING FOR THE FACILITY SHALL BE ACCORDING TO THE CRITERIA PROVIDED FOR THE SPECIFIC PROJECT. THIS, ALONG WITH FANS AND SMALL FRACTIONAL HORSEPOWER MOTORS, MAKES UP THE MAJORITY OF THE ELECTRICAL LOAD FOR THE BUILDING. A BUDGET OF 100 WATTS PER SQUARE METER FOR LIGHTING AND MISCELLANEOUS RECEPTACLES SHOULD SUFFICE. VOLTAGE REQUIREMENTS MAY VARY DEPENDING ON THE COUNTRY FOR WHICH THE FACILITY IS PLANNED. AN ADDITIONAL 50 WATTS PER SQUARE METER SHOULD BE BUDGETED FOR MECHANICAL SYSTEMS. POWER SHOULD ALSO BE BUDGETED FOR THE POSSIBLE PLATFORM AREAS IN THE WORSHIP CENTER WHEN PLANNING FOR THAT SPACE.

ELECTRICAL DESIGN SHALL FOLLOW THE REQUIREMENTS OF THE PROJECT CRITERIA PACKAGE. ELECTRIC SERVICE TO THE FACILITY SHALL BE UNDERGROUND IF POSSIBLE. EXTERIOR LIGHTING FOR PARKING AREAS AND WALKWAYS SHALL ALSO BE PER THE PROJECT CRITERIA PACKAGE.

CAPABILITY TO PROVIDE A TIE-IN TO A FUTURE BASEWIDE COMMUNICATIONS SYSTEM SHALL BE PROVIDED. VIDEOTAPING OF THE PRESENTATIONS MADE IN THE WORSHIP CENTER MAY BE DESIRABLE BY THE USER AND SHOULD BE CONSIDERED.

**FIRE PROTECTION & EMERGENCY LIGHTING**

FIRE PROTECTION FOR THE FACILITY WILL COMPLY WITH THE SPECIFIC CRITERIA PROVIDED FOR THE PROJECT. EMERGENCY LIGHTING AND NIGHT LIGHTING ARE ESSENTIAL. EXIT ACCESS LIGHTING SHOULD BE ON THE BASE EMERGENCY POWER SYSTEM OR HAVE BATTERY BACKUP. ALL SIGNAGE AS REQUIRED BY NFPA 101 LIFE SAFETY CODE IS TO BE INCLUDED IN THE DESIGN.

**PLUMBING**

UNDERGROUND WATER MAINS, STORM AND SANITARY SEWERS ARE REQUIRED. TOILET FACILITIES, COFFEE BAR AND FLOOR DRAINS MAKE UP THE MAJORITY OF THE PLUMBING REQUIREMENTS. THE NUMBER OF TOILET AND SINK UNITS ASSUMES A 2/3 MALE, 1/3 FEMALE RATIO AT MAXIMUM CAPACITY.

IN THE SACRISTY THERE IS TO BE A DRY SINK CONNECTED TO A GRAVEL-FILLED CONCRETE BASIN WITH OPEN BOTTOM BURIED A MINIMUM OF 1200 MM BELOW GRADE JUST OUTSIDE THE SACRISTY WALL. THIS WILL ACT AS A SACRARIUM. NO FULL IMMERSION BAPTISTRY IS ANTICIPATED IN THIS FACILITY. BAPTISMS WOULD BE ACCOMMODATED IN LARGER CHAPELS EITHER ON THE BASE OR IN CIVILIAN FACILITIES. ALL PLUMBING IS TO BE DESIGNED ACCORDING TO THE CRITERIA PACKAGE PROVIDED FOR THE SPECIFIC PROJECT.

**INTERIOR DESIGN**

THE INTERIOR DESIGN WORK DESCRIBED IN THIS PACKAGE IS DIVIDED INTO TWO CATEGORIES. THE FIRST CATEGORY, BUILDING RELATED INTERIOR DESIGN, INCLUDES ITEMS THAT ARE TO BE PART OF THE BUILDING CONSTRUCTION. THIS INCLUDES FINISHES SUCH AS FLOORING, MILLWORK, EQUIPMENT, AND ECCLESIASTICAL FURNISHINGS. THE SECOND CATEGORY, FURNITURE RELATED INTERIOR DESIGN, INCLUDES MOVABLE FURNITURE AND EQUIPMENT SUCH AS TABLES, CHAIRS, AND DESKS.

SELECTION CRITERIA ARE PRESENTED BELOW TO IDENTIFY THE LEVEL OF QUALITY AND SPECIAL REQUIREMENTS FOR FINISHES AND FURNITURE. THESE CRITERIA LEAVE FLEXIBILITY FOR THE DESIGNER TO MAKE CREATIVE AND APPROPRIATE SELECTIONS WITHIN THE SPECIFIED FRAMEWORK. SELECTION CRITERIA ARE MANDATORY.

IT IS IMPORTANT THAT THE PROCUREMENT PARAMETERS BE ESTABLISHED AT THE OUTSET OF THE PROJECT SO THAT THE DESIGNER IS AWARE OF ALL THE SOURCES AVAILABLE FOR FURNISHINGS AND FINISHES.

THE FUNDAMENTAL DESIGN CRITERION IS TO PROVIDE HIGH-QUALITY, FUNCTIONAL, EASILY MAINTAINED AND FLEXIBLY FURNISHED SPACES THAT CAN BE ADAPTED TO THE USERS' NEEDS. IT IS OF THE UTMOST IMPORTANCE TO CREATE A WARM AND COMFORTABLE ENVIRONMENT THROUGH THE GENEROUS USE OF WOOD AND APPROPRIATE COLORS, FINISHES, AND FURNISHINGS MUST BE COORDINATED THROUGHOUT THE BUILDING SO THAT FURNITURE MAY BE USED IN VARIOUS SPACES.

**BUILDING RELATED INTERIOR DESIGN**

ALL INTERIOR FINISHES SHALL CONFORM TO THE CORP OF ENGINEERS' GUIDE SPECIFICATIONS, APPLICABLE FEDERAL AND MILITARY SPECIFICATIONS, AND NFPA 101 LIFE SAFETY CODE.

ALL SURFACES ARE TO RECEIVE A FINISH. ALL WALLS SHALL BE PAINTED EXCEPT WHERE NOTED. WHERE FINISH HAS NOT BEEN INDICATED IN THIS PACKAGE, FINISH SELECTIONS WILL FOLLOW MILITARY STANDARDS.

F-1 CARPET  
 MINIMUM FIBER REQUIREMENTS TO BE: 3rd GENERATION SOLUTION-DYED NYLON WITH PERMANENT STATIC CONTROL LEVEL, TEXTURED LOOP, FRIEZE OR LOOP & CUT PILE WITH A MIN. FACE WEIGHT OF 875 GRAMS PER SQUARE METER, MAX. FACE WEIGHT OF 1100 GRAMS PER SQUARE METER WITH A SYNTHETIC BACKING. DIRECT GLUE-DOWN INSTALLATION IS MANDATORY FOR LIMITING ACOUSTICAL ABSORBENCY OF FLOOR SURFACE. F-1 PRODUCT MAY BE USED THROUGHOUT THE ENTIRE FACILITY.

F-2 CARPET  
 DENSE PLUSH OR CUT PILE FRIEZE. MATERIAL REQUIREMENTS AS LISTED FOR F-1.

CONTINUED ON SHEET 8

US Army Corps of Engineers  
 Omaha District

PROJECT: SMALL CHAPEL - SCHEME A

DESIGNER: [Name]

DATE: [Date]

SHEET: 6 OF 8