

**BASIS OF DESIGN: TYPE V-B
NON-SPRINKLERED WITH
A-3 OCCUPANCY**

ALLOWABLE AREA PER C.B.C. EQUATION (5-1)
 A_t = TABULAR AREA PER STORY (PER TABLE 503) = 6,000 S.F.
 I_f = AREA INCREASE FACTOR DUE TO FRONTAGE (PER SECTION 506.2)
 $I_f = [F / (P - .25)] W / 30$
 F = PERIMETER FRONTING OPEN SPACE = 910 FT.
 P = PERIMETER OF ENTIRE BUILDING = 1,232 FT.
 W = WIDTH OF OPEN SPACE (PER C.B.C. 506.2.1) = 24 FT.
 $I_f = [359 \text{ FT.} / (1,232 \text{ FT.} - .25)] 30 / 30$
 $I_f = 0.75$
 I_s = AREA INCREASE FACTOR DUE TO SPRINKLER (PER SECTION 506.3)
 $I_s = 0$ (NON-SPRINKLERED BUILDING)
 A_a = ALLOWABLE AREA PER STORY (S.F.)
 $A_a = \{A_t + [A_t X I_f] + [A_t X I_s]\}$
 $A_a = \{6,000 \text{ S.F.} + [6,000 \text{ S.F.} X 0.75] + [6,000 \text{ S.F.} X 0]\}$
 $A_a = \{6,000 \text{ S.F.} + 4,500 \text{ S.F.} + 0 \text{ S.F.}\}$
 $A_a = 10,500 \text{ S.F. (PER STORY)}$
 TOTAL ALLOWABLE AREA PER FLOOR: 10,500 S.F.
 TOTAL PROPOSED AREA = 4,764 S.F. < 10,500 S.F.

**PLUMBING FIXTURE CODE
ANALYSIS**

OCCUPIABLE AREA	329	OCCUPIABLE AREA (S.F.)	
LOAD FACTOR	22	OCCUPANTS PER S.F.	
TOTAL OCCUPANTS	15	PER TABLE A OF C.P.C.	

EXISTING AND FUTURE BUILDING PLUMBING ANALYSIS
 OCCUPANCY PER 2007 CALIFORNIA PLUMBING CODE
 330 TOTAL OCCUPANTS
 165 MALE OCCUPANTS
 165 FEMALE OCCUPANTS

MALE WATER CLOSET (W.C.) ANALYSIS:
 1 W.C. PER 150 MALES
 165 / 150 = 2 MALE W.C.

FEMALE WATER CLOSET (W.C.) ANALYSIS:
 1 W.C. PER 75 FEMALES
 165 / 75 = 3 FEMALE W.C.

URINAL ANALYSIS:
 1 URINAL PER 150 MALES
 165 / 150 = 2 URINAL

MALE LAVATORY ANALYSIS:
 1 MALE LAV. PER 2 MALE W.C.
 2 / 2 = 1 MALE LAV.

FEMALE LAVATORY ANALYSIS:
 1 FEMALE LAV. PER 2 FEMALE W.C.
 3 / 2 = 2 FEMALE LAV.

DRINKING FOUNTAIN (D.F.) REQUIREMENTS:
 1 D.F. PER 150 OCCUPANTS
 330 / 150 = 3 D.F.

FIXTURE TOTALS:	REQUIRED	PROVIDED
WATER CLOSETS (MALE)	2	2
WATER CLOSETS (FEMALE)	3	7
URINALS (MALE)	2	3
LAVATORIES (MALE)	1	4
LAVATORIES (FEMALE)	2	6
DRINKING FOUNTAINS	3	3

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DATE	
REVISIONS	
NO.	

**PROGRESS
SCHEMATIC
DESIGN**

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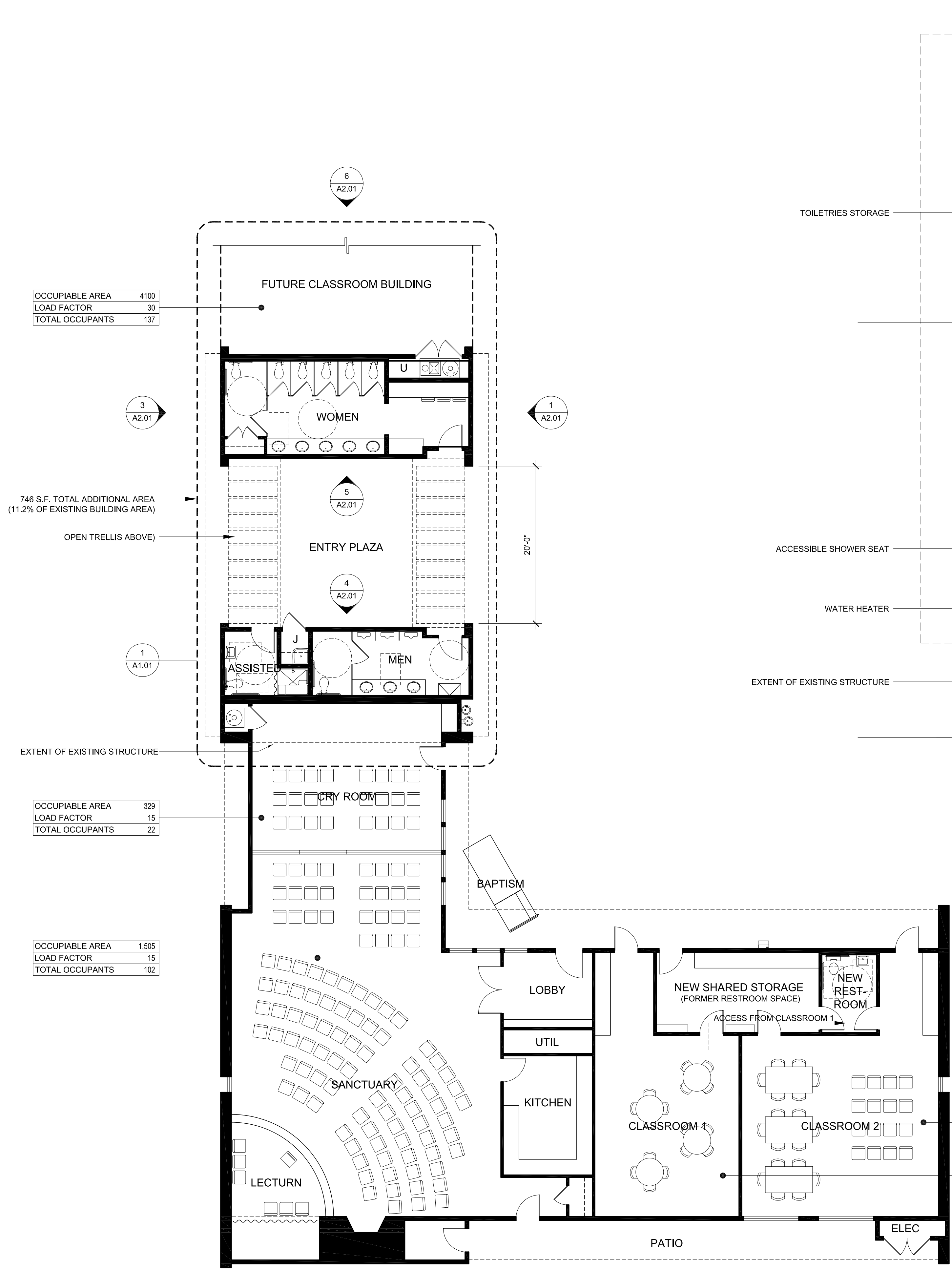
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CHURCH REMODEL PLAN 1
 1/4"=1'-0"

CHURCH REMODEL PLAN 2
 1/8"=1'-0"

A1.01