

Mtg mts' Approval 4/7/09 }
 4/14/09 } motion for approval? Yes, 2nded. APPROVED
 4/21/09 }

HII - please discuss mtg Brad had (add to agenda)

① Acoustics/Sound Modeling

2 repts, 1 in December, 1 in April 2009

w/ finish information, ceiling material, etc. \Rightarrow a model.

Beginning to look @ reverberation time. Shows "hot" spots.

What we're looking for 1) consistency (around / room)

2) balance speech & music (unlike a European cathedral)

Reverb rec = +2 (/ amount of echo). Long (or high) "echo" causes problems.

Want .5 \rightarrow 1.2 for speech \therefore 1.5 - 1.8 seconds = mid range / goal.

Sound range desired, still being "tweaked" w/ recommendations.

This model shows "fully loaded" w/ people, but also looking @ fewer people \Rightarrow upholstered seating (= 1 recommendation).

Acoustical Mtg here tomorrow @ 2:30 PM.

Sanct Rec's (shown on / wall) (from ST & W)

1) cant / walls

2) likes option B w/ slight mods

3) Upholstered seating w/ hard floors

4) 1800sf of sound absorbing panels on back wall (high)

5) 3 layers of drywall (4 absorbs low frequency) (significant cost)

6) Drop acoustical canopy over chancel

7) Focus amplification ^{to} seats (speaker system)

8) Choir & mech room sound isolation from sanctuary

Looking @ alternatives to these to save cost implications / impact

Hard flooring? - yes under / seats. Can carpet / aisles

#1 & #4 = 2 different walls

Cant / wall next to vertical? Yes

That wall is temp (removed during future phases)

RL - one set of dwgs currently available (1 week before DD deadline)

JR - does it matter what is exactly on / floor? Yes

RL - 2 options: polished concrete and tile.

NRud - glazing on / west wall changes? No

MTZ - where to put / sound booth? Yes, detail tomorrow.

② Finishes (assumptions)

- same finishes as existing, esp. if / same function.
 - new spaces (ex = Narthex) still being det.
 - classrooms: carpet, open grid/black structure/painted drywall (same as exist.)
 - gathering: carpet or tile flooring, lay-in grid ceiling/painted walls *
 - narthex: carpet, tile stairs, painted ceiling/walls (ceiling \approx 10')
 - sanctuary: carpet @ sloped aisles, polished concrete or tile under seats, wood floor @ chancel, painted drywall except wood around chancel & char
- * more discussion necessary (gathering & narthex ceiling heights) (V)

hard surface under / pews helps others hear each other sing.

BJ - still invest cleaning / floor w/ \approx 600 penetrations in / floor.

NRud - stairs in / narthex? Concern w/ wear of carpet on stairs (RL)

LL - rubber heads?

RL - Can also where out...

BITc - good thing to be weaning out / material on / stairs (V)

NR - when to have / disc of chairs v. pews?

Carpet / aisles, how far, how many pews, chairs, etc?

in / plan right now?

BITc - pews on raised, chairs on flat?

NR - # chairs?

RL - 350-400 chairs

NR - now \approx 450 chairs & that's a lot.

MTZ - but we'll be moving them less often.

NR - chairs are a pain, they move, no pen/pencil holder, almost imp. to store hymnals & bibles...

③ Chairs v. Pews...

NR - not all pews, but do we need that many chairs. How much flexibility?

HT - Holy week in / round?

KW - won't move them around as often.

WT - only when you need / space. Plenty of pews that hold / bibles, etc.

KW - do need a different type of chair.

ITZ - like to see as much flexibility as possible... A lot of pews ~~are~~ flex.

Look @ diff design of chair; yes. Would have made diff decision had we known how much we have to move them around.

PI - stackability. w/ back, against fabric = a problem.

BL - any combination, or all chairs on / flat.

BTC - ministry directors, look @. How do we use this & use?

Ministry programs - which will use sanct. v. fellowship hall.

HT - flat w/ all chairs = max flexibility.

JR - inclined to go w/ all chairs on / flat, esp for healing service

NRud - soothing nature of / makes sense not to intermix pews on / flat floor w/ chairs.

NR - how much impact do / penetrations have on chair placement?

BL - no, can support a chair leg.

BTC - but want / perfect situation w/ no air on legs? Yes, preferred

Cindy B - / design of those chairs = imp. Not real if they're not stackable ①

MUST be stackable, otherwise NOT flexible

LL - lots of stackable chairs available

WT - Dave Chomyak was on / "chair team"

DC - yes. & there are many. Depends on footprint of / chair ②

BTC - could talk about this @ hours... ③

④ Lighting - primary [Ⓢ] = over / pews. Right now = large "bawls"
 Allow of \$2,000/fixture (custom-made fixt w/ off-the-shelf bulbs)

Using fluorescents... = 10-20 years' life

All hanging @ / same height.

⑤ @ / Drywall = recessed can (fluorescent)

As much over / floor as possible. → 25-30 footcandles (not including sunlight)

Dimmable? Yes.

Spreading Lenses? Don't know. Will see.

Cindy B - dim diff areas separately? Yes

#3 lights in wood ceiling area (= "mood lighting")

some lighting between / panels (tucked up, underneath)

#5 Inside / "cloud" area / chancel (could be used all night long, possibly)

Mark Rick - lighting down / _____? Don't know yet.

Herb - how much light coming out of / skylight (sustainable)?

RL - 1% of light @ night = glowing feature. This decision can be made later...

PI - selecting fixtures w/in a budget?

RL - she has talked to Duro & FP.

BTC - she'll bring some alternatives? Yes.

Cindy - being able to see / stars? How w/ light?

Jenny - 25 FC = normal for a sanctuary? esp for elders...

BTC - 1 goal = hold svc w/ natural light only? FC w/ no lights on?

RL - 70% of / seats will have 20 FC w/ natural light

4. LIGHTING CONTINUED

FOOTCANDLES IN SANCTUARY : NATURAL = 70 F.C.
ADDITIVE = 25-45

PARKING LOTS IN ROYAL = 1-3 FC.

- MARK COMMENTS ON CAREFUL TO AVOID "WASH-OUT"
- NITE LIGHTING SKYLITE CAN BE CONTROVERSIAL
- ROBERT DISPLAYS ACTUAL LIGHTING PLAN
- LUNDA ASKS ABOUT AIRWAY SO CHANGES CAN VERY HIGH FREQUENCIES
- ROBERT DEMONSTRATES DAYLIGHTING MODEL W/O ANY SHIELDING OF ANY KIND. RAN THIS MODEL MANY TIMES "BAFFLING"
- BRAD COMMENTS ABOUT HOT SPOTS AND LIGHTING THEN GLAZING BEHIND CHANCEL.
- DISCUSSED FULL NATURAL LITE VERSUS DIFFUSED LITE AND SHADING THEN ARTIFICIAL MEANS = REFLECTIVE GLASS, BARK OUTS, ETC.
- BRAD SUGGESTS FULL MEETING JUST ON THIS ISSUE AS IT IS CRITICAL TO AMBIANCE IN SANCTUARY
- PHILIP SUGGESTS POTENTIAL LOOK AT MORE CANOPY SKYLITE...
GIVE UP VIEW TO STARS FOR MORE DIFFUSED LITE.

BRAD SUGGESTS DIPPER DISCUSSION OF CROSS AND "B-1 BOMBER" CANOPY

BRAD ON DISCUSSION OF SUNRISE MEETINGS IN CO SPRINGS COMMENTS SAUCE SEW BUILDING COMMITTEE.
Mentions complications of a divisive 45/55 split vote and how to resolve