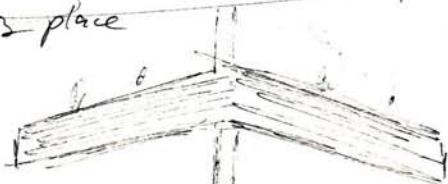


THE B-52 Design

The vision of the B-52. At home, the B-52 is a sign of our defense, our protection. It stands like a mother with her arms spread out wide, sheltering her children, ready to attack if any threat is posed. At home it is a shelter & provider. A place of comfort & peace. It becomes a gathering place.



The symbols

The wings: A shelter, Support

The Body (Fuselage + Payload): The people (not bombs)

The tail: Acts as a guide

"Hope for the people, deterrence for the enemy"

The enemy - (Deception + Division)

The symbol of the B-52 could be misinterpreted

Other Symbols



Stripes of strength = enlisted force
6 parts = core capabilities of air force

Star = total Air Force Family
x officer leadership

Globe (circle)

* global reach

Diamonds = core values
together = eagle

(Foundation)

Religious

God



human kind

Jesus Christ

The "Bridge between God + man" (human)
Salvation / Redemption / Hope / Promise

Jewish



Star of David = Unity

6 dimensions = 6 directions of God's total rule (N,S,E,W up, down)



Moon = reach of empire (ottoman empire)

5 points of Star = 5 pillars of Islam

Islam



Wheel of Dharma = Turning wheel of Truth or Law
8 spokes = Noble eight-fold path + Buddha teachings

Buddhism



Om 3 Sanskrit letters = 3 worlds of earth
atmosphere, heaven = 3 Hindu Gods

Hindu

THESIS SPRING 2012

JEFFREY MELLGRE

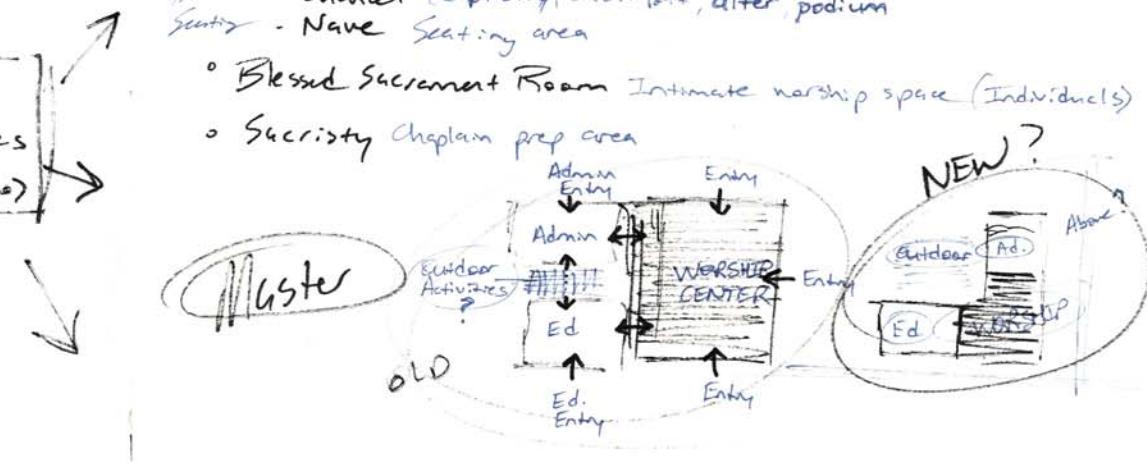
(612) - 708 - 1781

Info from:
USAF Religious Facilities
Design Guide (2000)

■ PROGRAM DEVELOPMENT

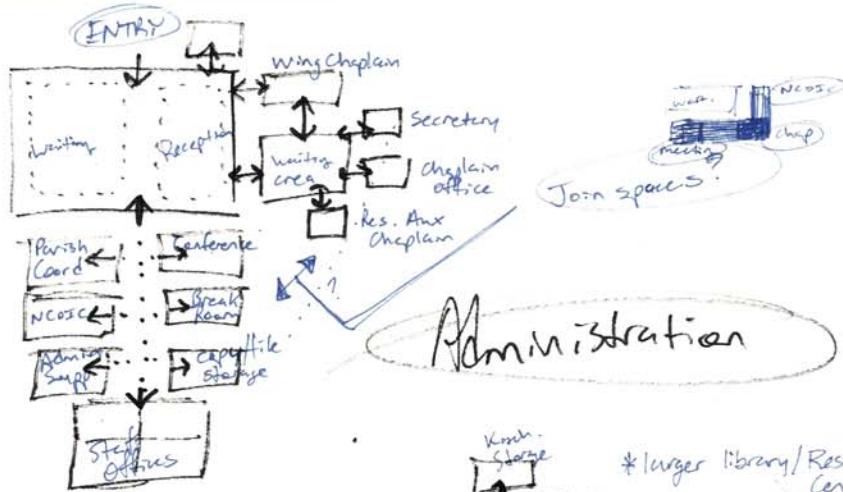
Key Spaces:

- Narthex Public gathering space
- Sanctuary Used for traditional services
 - Front - Chancel Baptistry, choir loft, alter, podium
 - Center - Nave Seating area
- Blessed Sacrament Room Intimate worship space (Individuals)
- Sacristy Chaplain prep area

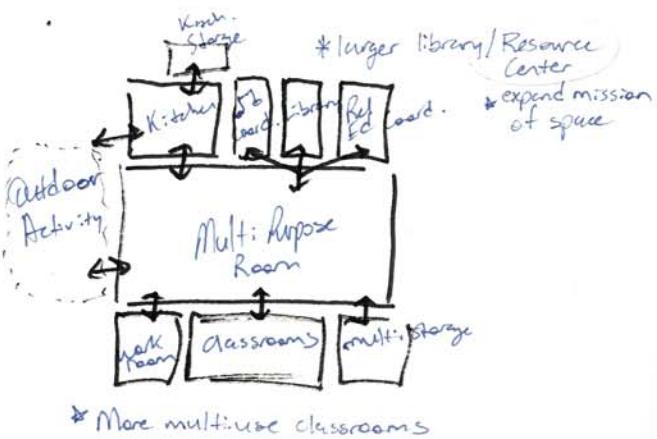


Multi-faith
worship
center





Education



General Rules

Small chip = 16,000 sq ft
Large chip = 30,000 sq ft

Small Bore → one small chapter

Med Base → one large chapter

large base mix small + large

Small base: < 1,000 pp¹

large base = 78,000 ml

Minot AFB Population ~ 13,000

Minot AFB FactSheet

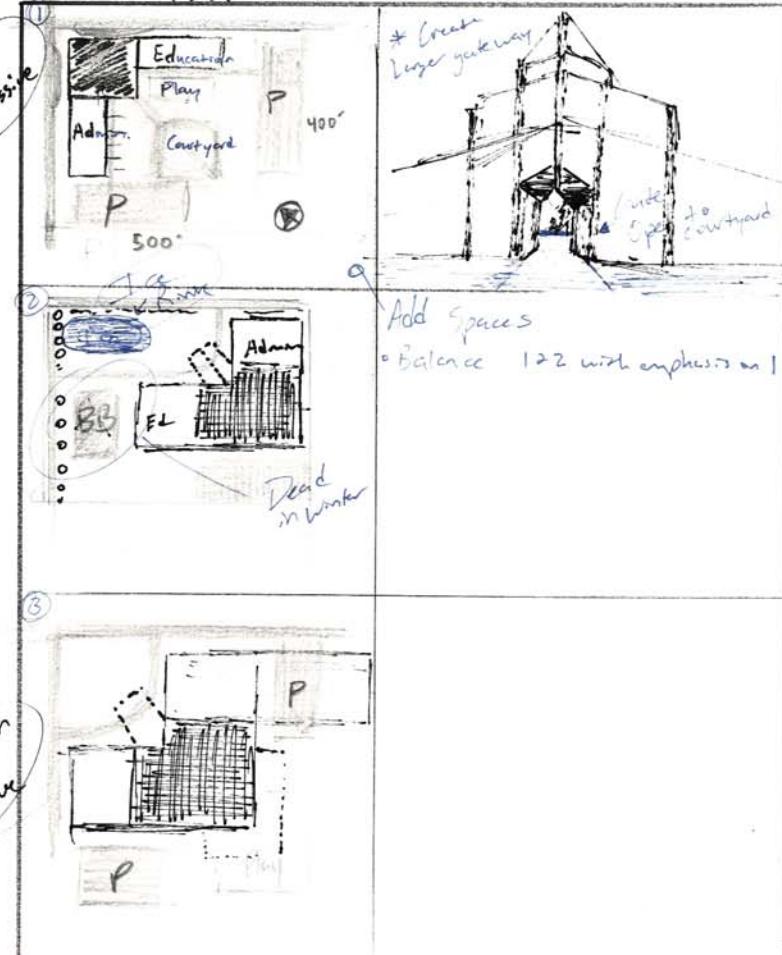
LARGE CENTRAL FACILITY

LARGE SANCTUARY — BREAK DOWN (HUMAN SCALE)

CHURCES TO VISIT

- Gethsemane
 - Nativity

MASTER PLAN

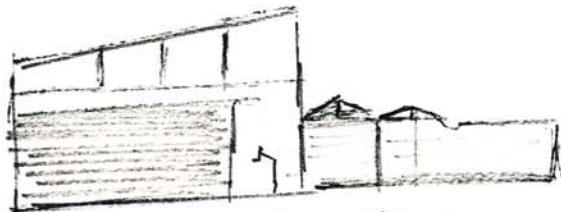


~~Existing~~ Elevations

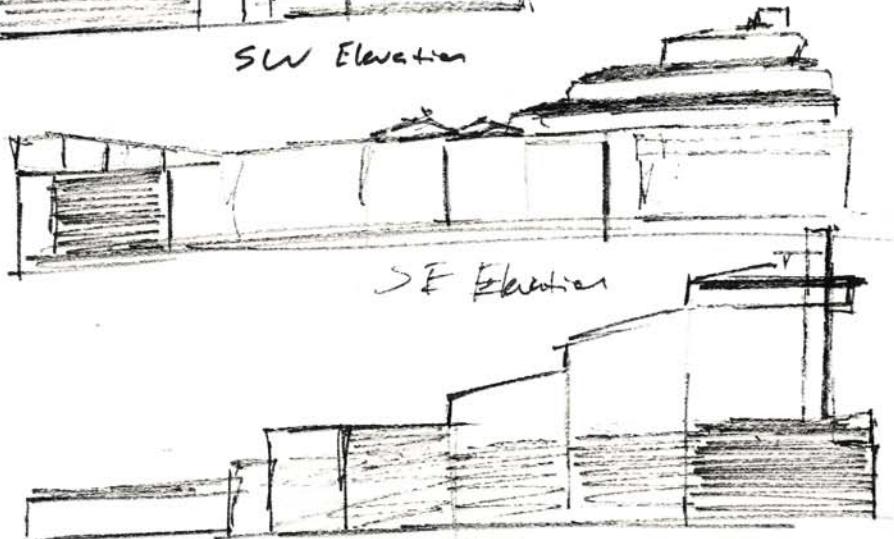
Existing / Current



NW Elevation



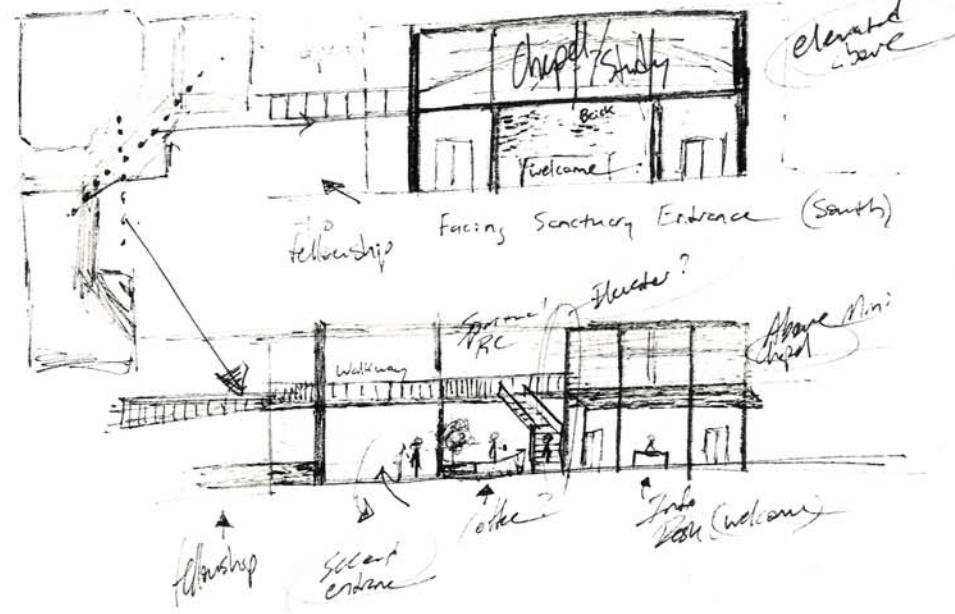
SW Elevation

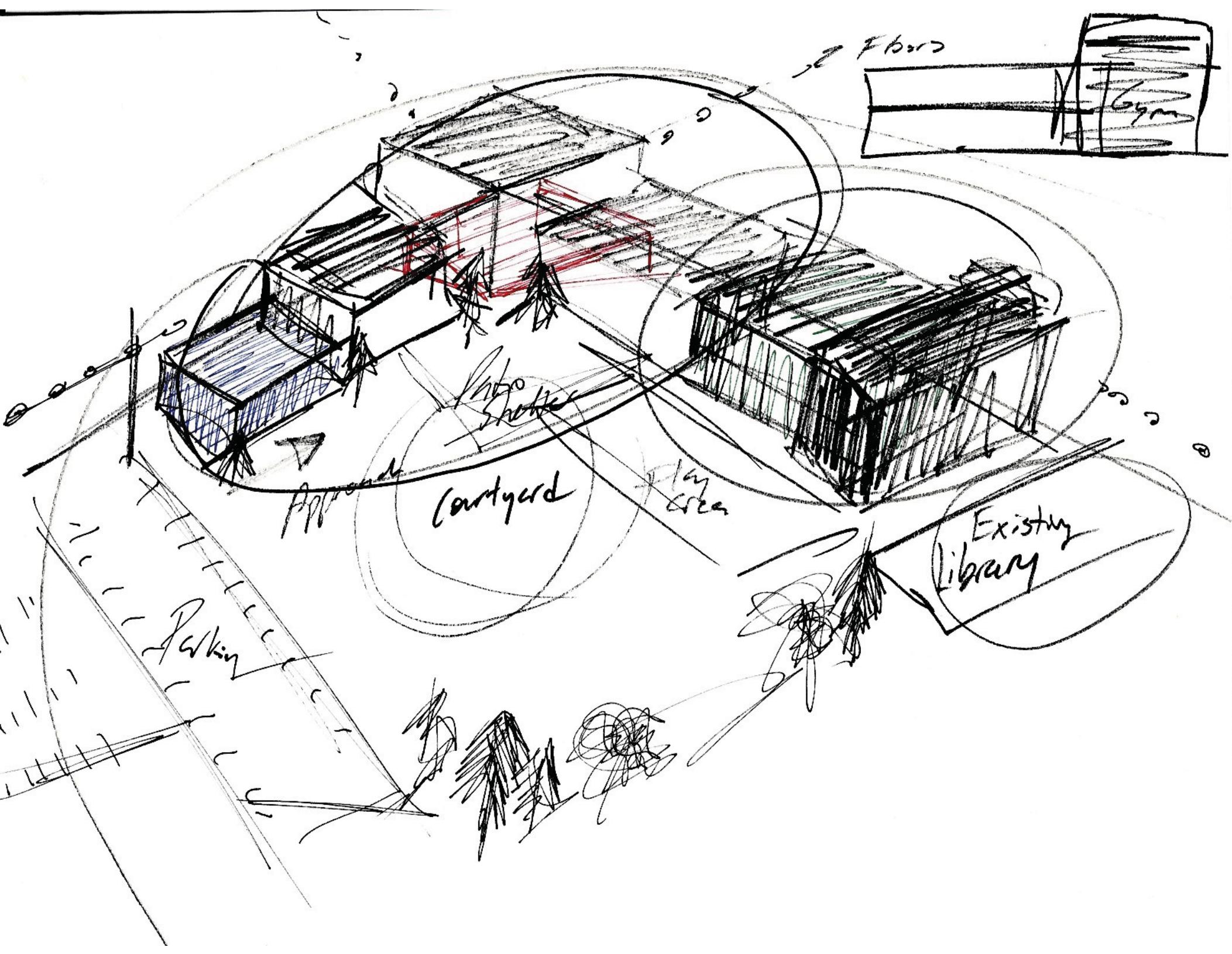


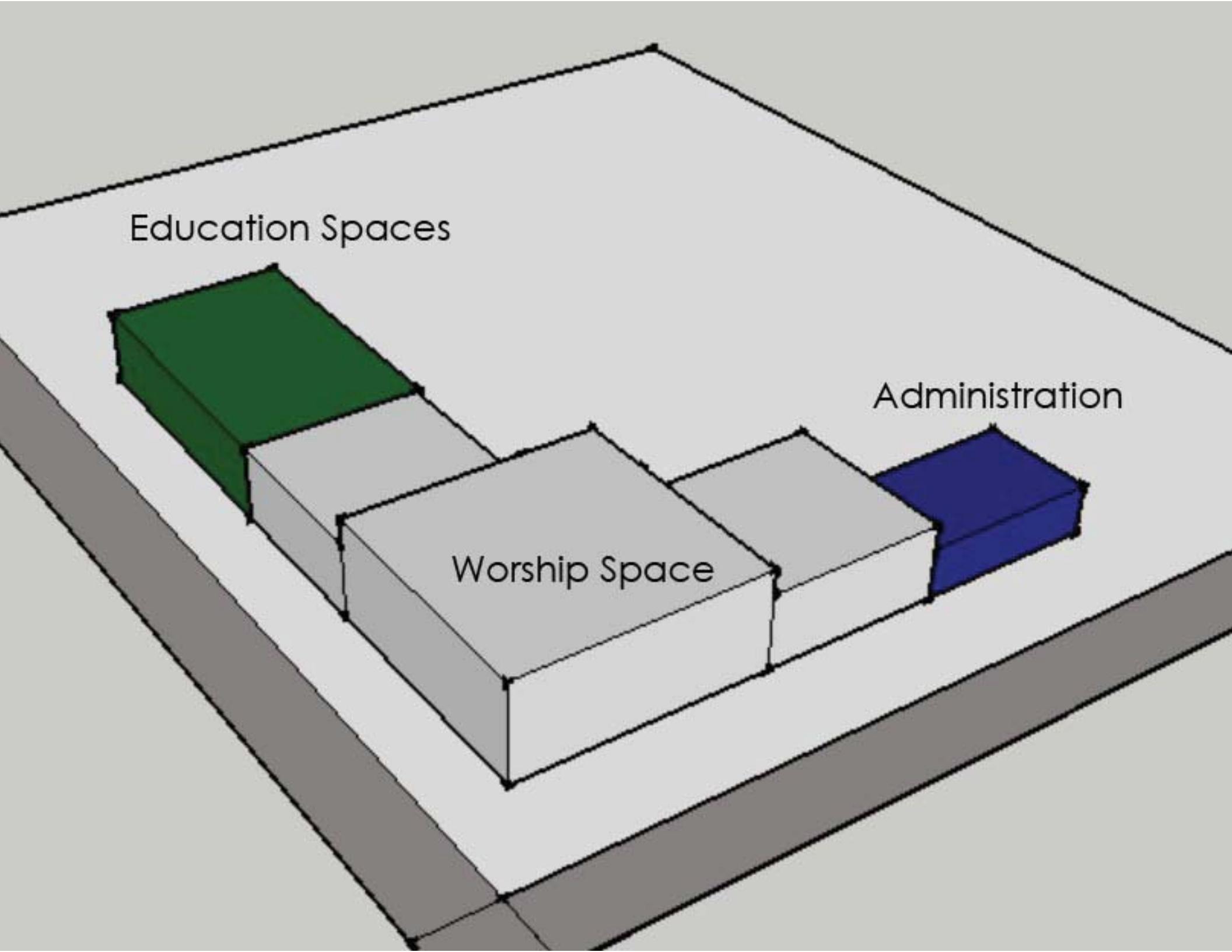
SE Elevation

NE Elevation

Sections







Education Spaces

Administration

Worship Space

Structure

Lightweight wall stud

- Med load 6" stud

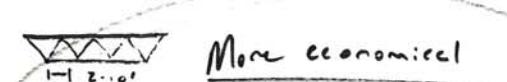
• Steel Columns "
 25' w6 150mm 6x6/8x7 (Area 1000 ft²) tributary load $\frac{1}{2}$ heavy
 40' w10 200mm 11x10/13x12 (10,000 ft²) $\frac{1}{2}$
 55' w12 300mm 17x13/17x16 (100,000 ft²) $\frac{1}{2}$

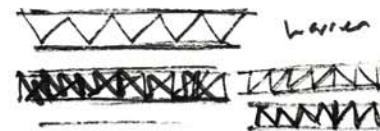
 30' HSS6 150mm 6x6
 50' HSS8 200mm 8x8 8000 ft²
 60' HSS12 250mm 10x10

Beams vs Joists
GIRDER span Beam depth

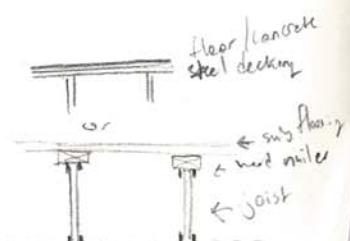
I	15'	8"
	30'	16"
	45'	24"
	60'	32"

use for girders

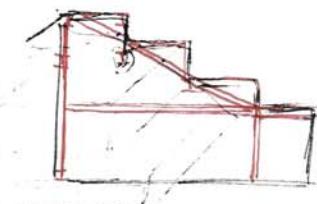
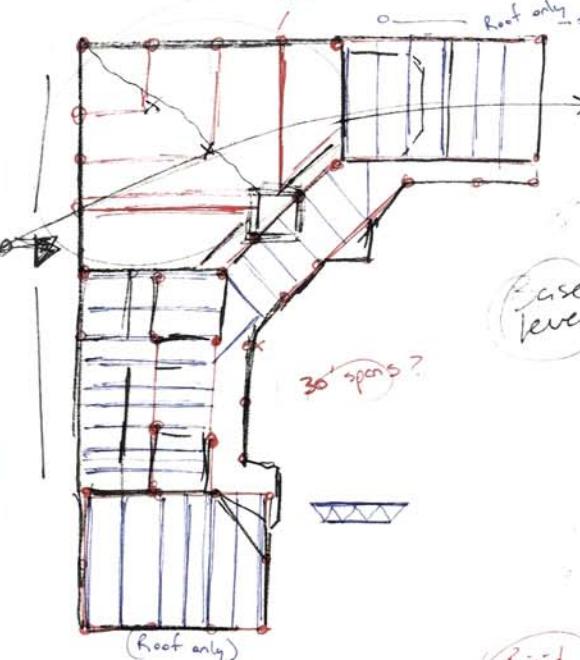
 More economical (less steel)
 30' = 12" 20"
 60' = 30" 36"
 90' = 40" 48"



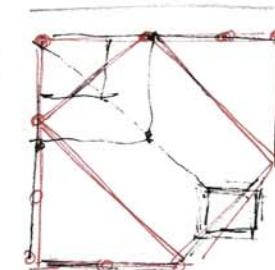
Howe
Pratt



relates to roof line changes

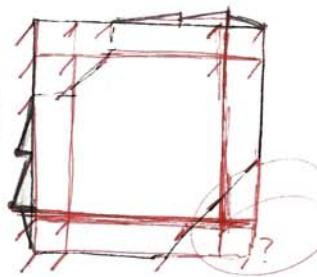


base level



30' spans?

Rigid frame



Integrate into section
perp.?



• Revit Component

