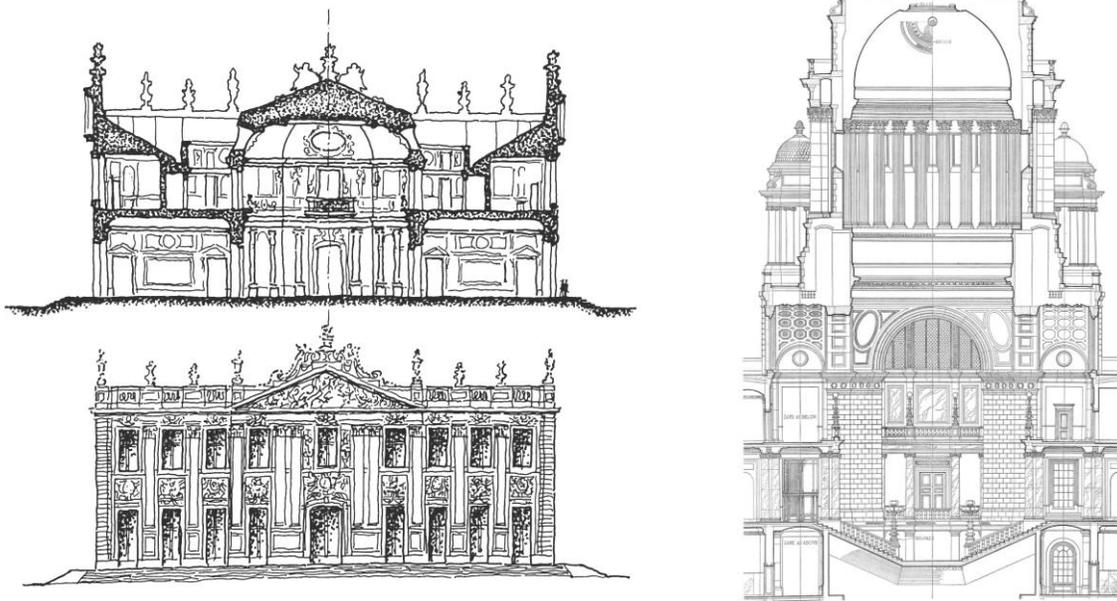# PROJECT 02
LIBRARY FOR THE 21ST CENTURY

ARC 3210 | Spring Semester 2020 | CS-713A | T/TH 2:30-5:45pm

PHASE 2 – SCHEMATIC DESIGN

SCHEMATIC DESIGN

With the knowledge gained from the Pre-Design phase, students will begin the formal architectural design process where ideas and concepts emerge about the project's program, client requirements, and user needs. We call this phase schematic design. As outlined in the course schedule, schematic design includes the following activities:

- Esquisse - Concept Development
- Review Exterior Design Concepts / Massing Models
- Review Program Layout Strategies
- Start Studies at Larger Scale
- Develop Plan, Section, Elevation

- Refine Plan, Section, Elevation
- Start Diagrams, Analog Model, Vignettes, Interior Design
- Preparation for Interim Review
- Hand in Project / Pin Up Materials for Review
- Interim Design Review with Professional Jury
- Project SD Phase Reflections
- Digital Portfolio Submission

ESQUISSE / CONCEPT DESIGN

Embedded in the *Ecole des Beaux-Arts* curriculum was the *esquisse* – a French word for sketch. The esquisse is a preliminary sketch showing the main ideas of your solution to the design challenge and problem explained above. It is done in a short and fixed time, usually anywhere from a couple hours to nine hours. Your final design for the project will be founded on your esquisse. <u>As part of this design process, each team will create a total of the following items:</u>

- **Six (6)** quick sketch proposals for the design of main façade (along Main Street),
- **Six (6)** quick sketch proposals for the floor plan layout of the program
- **Six (6)** quick massing models.
- **All drawings and models will be produced at a consistent scale of either 1/32"=1'-0" or 1/16"=1'-0" scale.**
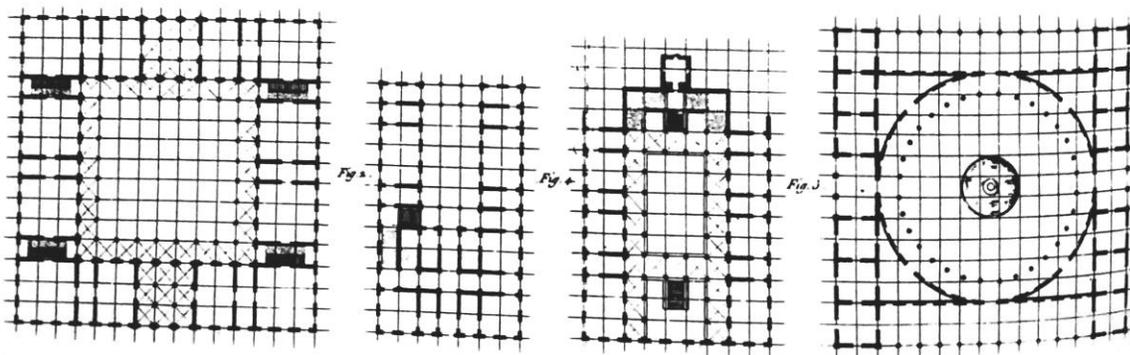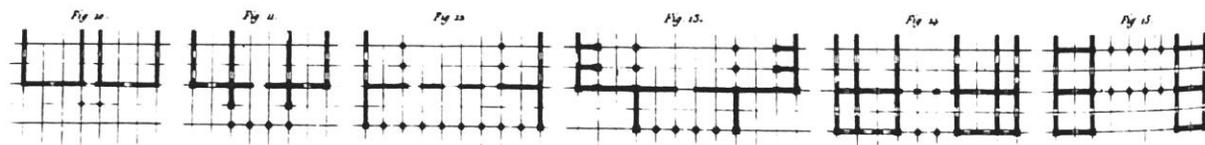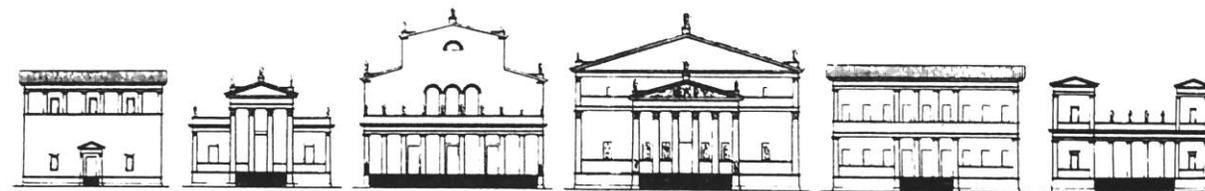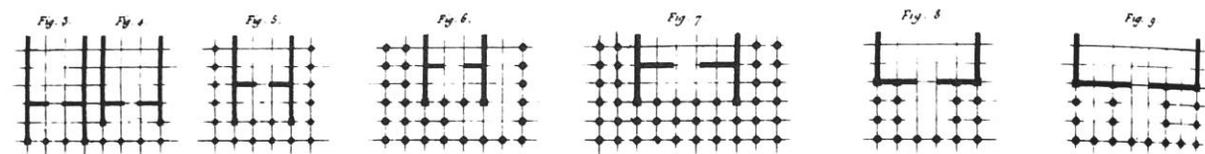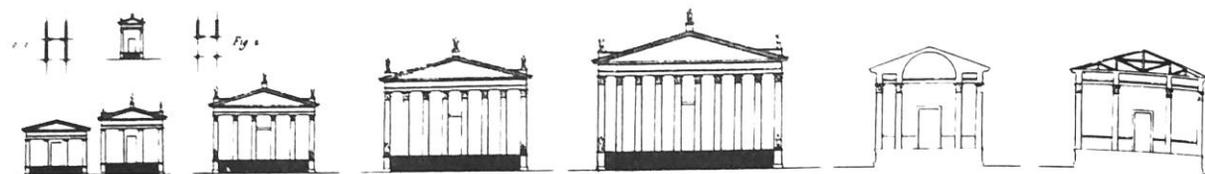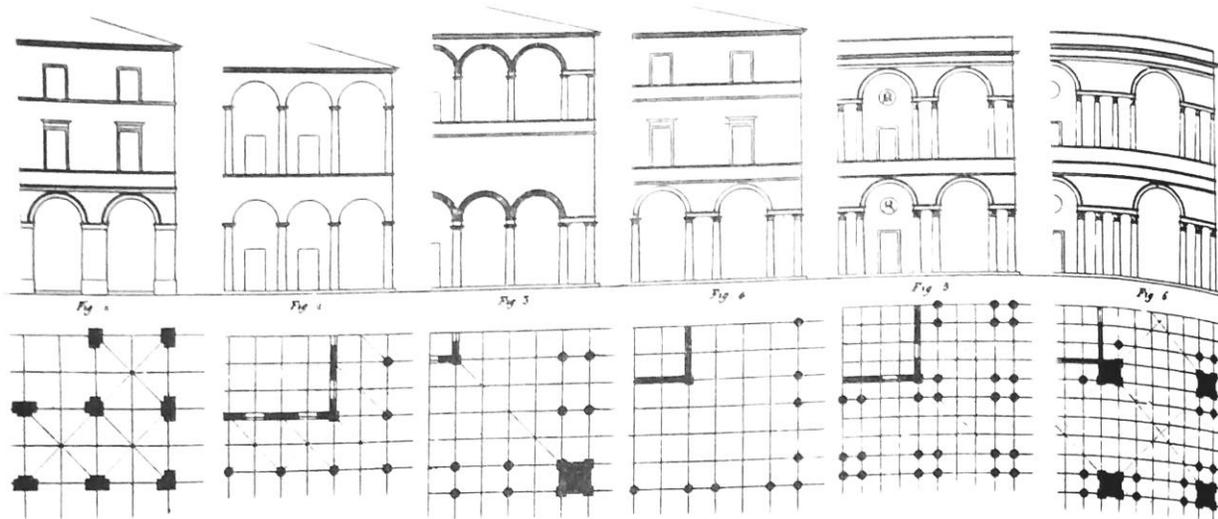
The design proposals will be informed based on your team's findings from your program, precedent, and site analyses. After the esquisse exercise, teams will select one of their concepts for the façade, floor plan, and massing model to further refine.

INTERIM REVIEW DELIVERABLES

For the Interim Design Review, each team will work on developing their projects by producing the following drawings. These will be assembled on several 24"x36" drawing sheets.

- Site plan showing landscape design proposal and context around site (1"=50')
- Building Elevations (1/16"=1'-0")
- Floor plans of all levels with spaces labeled (1/16"=1'-0")
- Longitudinal and cross sections of building showing context (1/16"=1'-0")
- Analog massing model to fit into class site model (1/16"=1'-0")
- Analog wall section model (1/4"=1'-0") – should show evidence of design thinking addressing solid/void relationships, massing, materiality, classical proportions, major moldings, etc.
- Diagram showing program separation (Front of house vs. Back of house) – could be combined with floor plans
- Diagrams showing daylighting strategy – could be shown in sections
- Diagrams showing circulation
- Exterior and interior perspective/vignette showing user experience

Each drawing should include a north arrow, graphic scale, and label.

Fig. 1   Fig. 2   Fig. 3   Fig. 4   Fig. 5   Fig. 6

Fig. 1

Fig. 3.   Fig. 4   Fig. 5.   Fig. 6.   Fig. 7   Fig. 8   Fig. 9

Fig. 10.   Fig. 11   Fig. 12   Fig. 13.   Fig. 14   Fig. 15

Fig. 2.   Fig. 4.   Fig. 5.

Your team's design project will be graded based on the following criteria:

LEARNING OBJECTIVE	POINTS
DESIGN SOLUTION: Successful design solution to fundamental architectural problems that integrates concepts, formal/visual principles, creative inquiry, and techniques that address the functional and programmatic requirements of the project.	30 (20%)
FORMAL & SPATIAL PRINCIPLES: Demonstrates fundamental understanding and application of formal, spatial, and aesthetic principles. (e.g., proportion, classical orders, geometry, user experience, human scale, beauty, hierarchy)	30 (20%)
SITE DESIGN: Project addresses the immediate site, neighborhood, and urban design needs of the area. Design proposal appropriately responds to issues emerging from the historic district, immediate context, socio-cultural demographic, and institutional presence.	15 (10%)
VISUAL/GRAPHIC COMMUNICATION: Communicates design solutions effectively using architectural presentation materials and techniques (e.g., line weights, level of detail for scale, level of craft, organized graphic presentation). This also includes analog models and their ability to adequately convey the main project characteristics.	15 (10%)
USE OF PRECEDENTS: Project clearly makes informed and well-reasoned choices regarding the incorporation of design principles from precedent analysis.	15 (10%)
DESIGN PROCESS: Project demonstrates a rigorous and successful design process. This will be evident in the refinement of the selected concept sketch (*esquisse*) to the final design solution (e.g., development of plans, sections, elevations, models, diagrams, perspectives, etc.)	15 (10%)
VERBAL COMMUNICATION: Verbal communication is well planned and executed. Presentation results in further discussion of the design solution.	15 (10%)
PROJECT REQUIREMENTS: All project requirements and criteria are met, such as deadlines, deliverables, format, portfolio, etc.	15 (10%)
TOTAL	**150 points / 100%**