

The Catholic University of America
School of Architecture & Planning

ARCH 402/503: Comprehensive Building Design Studio (CBDS)

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6 credits

M, W, F - 1:00pm - 6:00 pm

Comprehensive Building Design Studio (CBDS)

Exploring the Integration of Building Systems, Materials, and Construction Methods into a Cohesive Whole

ASSIGNMENT #4: Architectural Diagrams, Plans, Sections, Elevations

DEFINITION

During Assignment #3, each firm represented its project through conceptual representation which was suggestive of architectural works. These representations were intended to communicate concepts for the organization of the building in terms of the relationships between the building and the site, between the various programmatic elements, between the infrastructural systems of the building and between the various user of the building. These drawings should have been useful for each of you in clarifying how these various elements begin to translate into architectural elements and ultimately, form.

Architectural Drawings are yet another device which are used to represent information about the particulars of a design. These drawings begin to document the relation of the various elements which determine the size, quality and materiality of a building. Through these drawings we begin to understand issues related to structure, scale, regulatory requirements, etc. As architects move forward during the design process, these drawings become the basis to which additional information is overlaid as it becomes known. This process is known as Design Development.

DESIGN DEVELOPMENT

Design Development is the period in which the design itself achieves the refinement and coordination necessary for a substantially refined architectural project. The primary purpose of design development is to further define and describe all important aspects of the project so that the only remaining step is the formal documentation step of construction contract documents.

Tasks include initial coordination with consultants to integrate the building systems with the overall design concept, and expansion of the basic set of drawings to include a more comprehensive demonstration of all exterior and interior conditions.

ASSIGNMENT

Each firm is responsible to produce a set of documents including but not limited to:

- Plans at each floor (including parking and roof)
- Multiple Sections (at relevant spaces including multi-story spaces, changes in elevation)
- All primary Elevations

All Drawing must be in Context with north pointing up. All plans should clearly illustrate the following:

- relative wall thickness
- location of openings (doors with swings, windows, etc)
- vertical circulation (egress stairs, elevation, ceremonial stairs, changes in elevation)
- structural grid (column spacing, structural bays)
- changes in material (hard surfaces vs. soft surfaces like landscape)
- furniture layouts (desks, chairs, etc.)
- restrooms (proper fixture counts, mens vs. women's room)
- parking spaces (proper number of parking spaces)

DUE

SD/DD Review
Friday, February 27