NEW YORK CITY
COLLEGE OF TECHNOLOGY
THE CITY UNIVERSITY OF NEW YORK

DEPARTMENT OF ARCHITECTURAL TECHNOLOGY

ARCH 2430 **BUILDING TECHNOLOGY IV** **October 2014**

SK 02, *Concrete Detail*

Location:
various (a local concrete structure)

Media:
Pencil (2B or similar) or black thin tip pen on 11”x17” paper, with your title block

Assessment:
Each individual student (this is not team assignment) has two options to complete this assignment; complete a 1) site sketch, or develop an 2) analytical sketch. Please indicate which sketch type you are completing to finish the assignment.

1) Site Sketch
Each individual student will go into the neighborhood and sketch a concrete structure connection detail. The detail should be of a structure that is under construction or is of such a type that shows clearly how the connections work. The detail should show how concrete pieces hold themselves together. Include in the drawing lines that show where the parts are connected and what fastens them together.

2) Analytical Sketch
Each individual student will go into the neighborhood and sketch a concrete structure connection detail. The student should then add an additional sketch or tracing over the existing condition. This drawing will be an “x-ray” sketch showing what you think is occurring inside the connection. Use your concrete research project or additional research to assist you in sketching the interior structure of the connection under examination.

For Both Options:

For this details sketch assignment, bridges, ramps, car garages may offer easier views of connections to access. Structures/buildings that are under construction are sketching opportunities. These structures/buildings may allow you to see inside the assemblies and draw the connection fasteners more completely.

Include the address of the structure/building you are drawing.

Considerations:
The purpose of the sketch is to examine how these concrete components connect together. Look for the views where it is most easy to see these connections. Find examples that are dramatic connections, such as column to bearing wall, freestanding column, and monolithic precast unit connections.

Extra credit:

This should only be done after the regular assignment is finished. Complete additional drawings showing the overall structure and how this detail is used throughout the overall structure. This would be a large massing sketch(s) showing where your connection detail occurs throughout the structure. Include photographs that describe the connection and the overall structure.

Submittals:

All submittals need to be posted up to the GTeam site before their due date as outlined in the syllabus schedule. Use the naming conventions.