CE5390 & CE4377 BUILDING INFORMATION MODELING
Spring 2025

HW 3 – CONSTRUCTABILITY REVIEW AND CLASH DETECTION

DUE DATE: Monday, April 21ᵗʰ, 11:59 PM

Instructor:
Jaeyoon (Jason) Kim

Office Hours: MW 8:00 – 9:00 am
Office: Engineering Building A-215; **E-mail: jkim13@utep.edu**

Lecture: MW, 4:30 PM – 5:50 PM

Location: Classroom Building C204

Notes:
1. **DO NOT copy any sources**

2. If you have any questions after reading the assignment, please contact the instructor.

Assignment 3 – Constructability Review and Clash Detection

In this assignment, the ability to detect clashes using BIM and review the associated constructability will be evaluated.

1. Five nwc files (Columns.nwc, Electrical.nwc, Foundations.nwc, Framing.nwc, and Mechanical.nwc) are provided in Teams shared folder (General/ 3.Materials for Hands-on Sessions/ 5. Constructability and Clash Detection/ Session1/ Constructability and Clash Detection). Please carefully review the provided models.

2. Clash Detection and Constructability Review Report

   - Find and report all clashes using Navisworks Manage. Please play with "Tolerance" and explain how it affects the clash detection and describe your thoughts on that.

   - After carefully reviewing the clashes detected, please think about whether or not each is an issue. For example, many wall clashes wouldn't be considered as a significant issue; however, this clash may appear to be one.

   - Once you've determined that your clashes are issues, please produce a constructability review report presenting five (5) most critical clashes you think and explaining why you think the selected crashes are critical and suggesting potential solutions for each. Proper descriptions, necessary snapshots, and suggestions are required for each five clash.

Deliveries

   - Submit the below **through email (jkim13@utep.edu) by 11:59 pm on 4/21.**
     1) "nwd" file containing the federated model (*FirstName_LastName_A3.nwd)*
     2) HTML Clash Report file (*FirstName_LastName_A3.html)*
     3) Constructability Review Report (*FirstName_LastName_A3.pdf*)

If you have any questions, please send an email to Instructor (jkim13@utep.edu)