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REQUEST FOR INFORMATION **DATE:** April 14, 2016 **NO.:** RFI-037

To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Devin Gates

Project Name: Webster University Interdisciplinary Science Building Project No.: 15051

Subject: Structural Steel general clarifications

Response Required By: April 21, 2016

Drawing / Spec Reference:

Information Requested:

1. Table values used for shear loading.
Items 4 and 11 of structural steel general notes specify using "Tables For Allowable Loads on Beams" for shear design load.
We believe it is call "Table 3-6 Maximum Total Uniform Load" in newer AISC manuals. We are going to use ASD values in AISC steel construction manual 13th ED (There is supposed to be no difference between manuals. If there is, we will follow 13th Edition). Please confirm.
2. Item 4 vs. Item 11 in structural steel general notes.
Item 4 is for non-composite WF beams. Item 11 is for composite WF beams. Please advise if the following method is acceptable for us to distinguish composite from non-composite. If there are numbers in bracket (shear stud quantity) right above beams in framing plan drawings, we will assume the WF beam is composite beam and its shear connection is designed per item 11. Otherwise, it is not and its shear connection is designed based on item 4.
3. Table 3-6 maximum total uniform load is valid for simple-supported beams.
Please advise if we can use it for the following cases:
 - a. Cantilever beam
 - b. Beams in braced frames
 - c. Gravity moment beamsFor a, b, and c, the design shear values are determined by looking up values in Table 3-6 per beam length in plan. Of course no less than 10 kips.

Response:

1. ASD in AISC 13th Edition is acceptable.
 2. Yes, composite beams can be identified with the shear stud quantities noted in brackets.
 3.
 - a. Cantilever beams which support concentrated loads must be designed for the worst case condition. Span is 2x length.
 - b. Beams in braced frames need to additionally include axial loads and transfer loads from bracing.
 - c. Gravity moment beams are acceptable.
- GENERAL COMMENT - Please do not hesitate to contact me with any questions regarding unusual loading conditions or excessive loading conditions. I will try to follow up within 1 business day.

Answered By: **Jill Walker / DMA**

Date: **04/15/2016**



ARCHITECT'S RESPONSE:

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

Answered By: _____

Date: _____