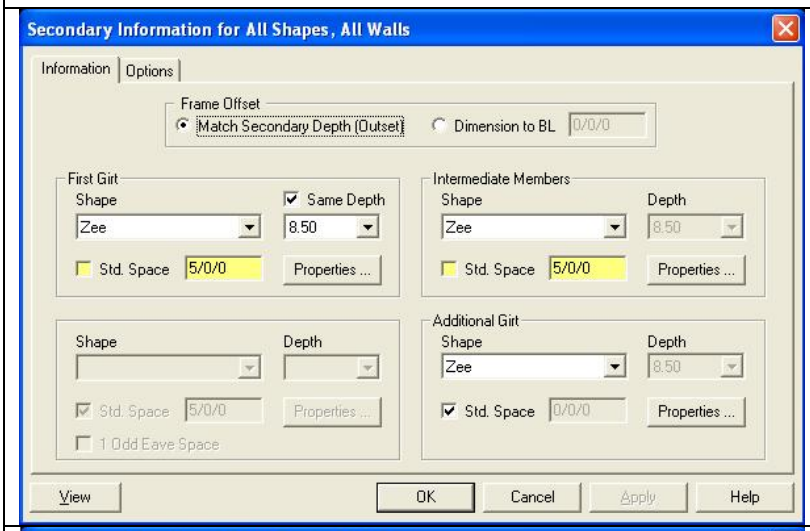
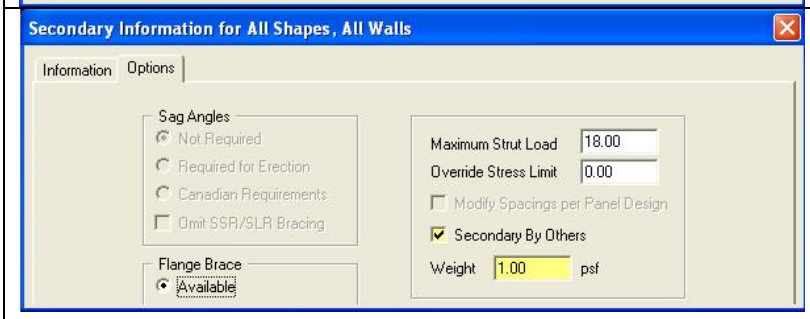
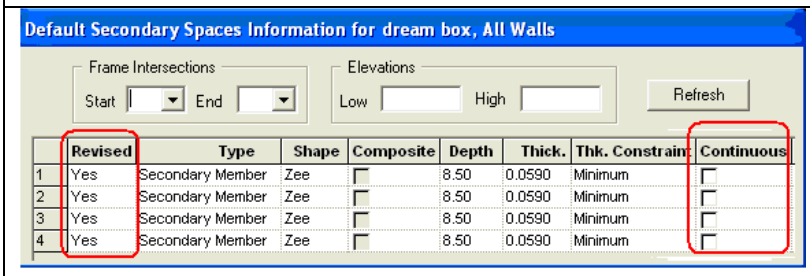
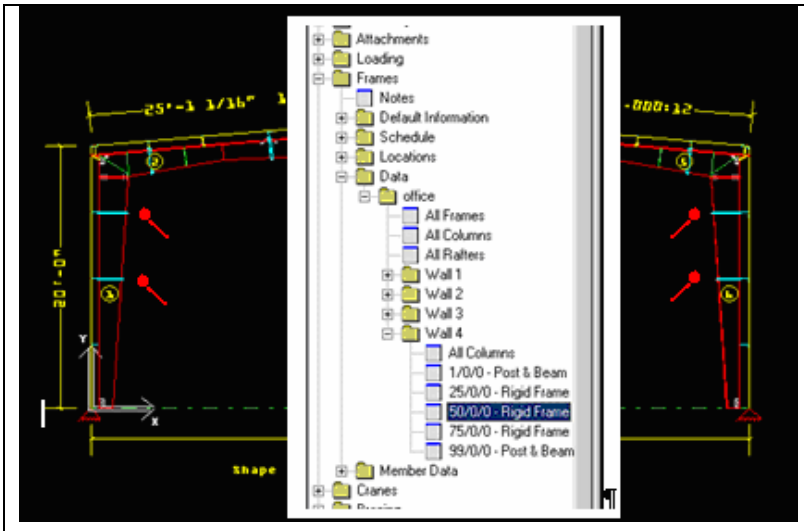
Flange Brace to Masonry

Unsupported Columns can become quite costly and are, in fact, more expensive than supported columns. This procedure will allow you to take advantage of your Masonry Design by specifying that flange braces can be used. Note that you must design your masonry wall accordingly. VP will supply flange brace forces for design of masonry anchorage by others. Basically, you will be defining girts NBVP and allowing flange brace locations. Input a building of any width and length. Use a 20 foot eave height to get a couple of rows of girts.

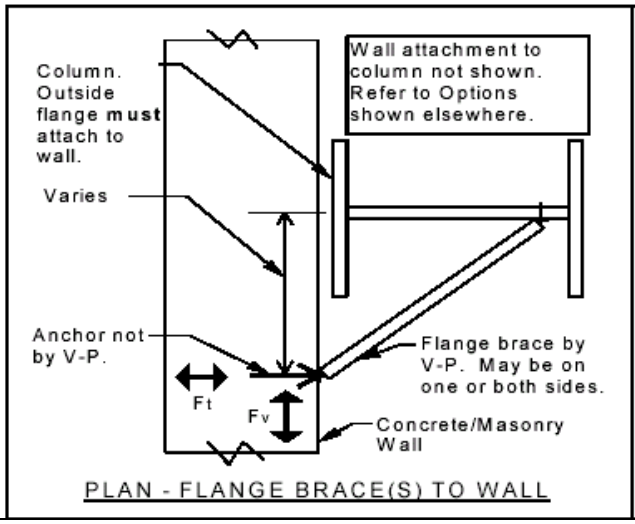
	1. Go to *Secondary / Default Info / All Walls*
	2. At the *Secondary Information* window uncheck "*Std. Space*" at the First Girt and Intermediate members section and input potential desired location to have flange braces. I show 5/0/0, but use what is best for masonry design and flange brace tie-in.
	3. Still at the *Secondary / Default Info / All Walls*, Click on the "*Options*" tab. Select *Secondary By Others* and input a *Weight* of *1.0*. *OK* out of this window.
	4. Go to the *Secondary / Spaces / Default Spaces / All Walls* screen. Uncheck the *Continuous* box for all rows of girts. The system will then generate these girts behind the Masonry wall now that they are tagged as user inserted or revised.



5. Complete a *Run All* from the Building Editor menu bar. Once the Run is successful do an elevation view of a typical frame to determine at what locations the system generated flange braces. In the picture at left, flange braces were generated at the 10'-0 and 15'-0 girt elevations, but not the 5'-0 elevation. I might then choose to allow flange bracing at these locations by taking the following steps.

6. Go to the *Secondary / Spaces / Default Spaces / All Walls* screen. Scroll to the right of the table and click on the *Do Not Use* box for the girt at Elevation 5/0/0.
7. Complete a *Run All* from the Building Editor menu bar.

8. Complete Supplemental Price Book forms and provide these to your VP Service Center.



PLAN - FLANGE BRACE(S) TO WALL

FLANGE BRACE (FB) DETAIL (if permitted)

(Not allowed with Option B1 or Option D.)

Flange bracing to wall ❑ **IS** ❑ **IS NOT** permitted.

The design of the attachment of the flange brace to the wall, generally a wedge or epoxy anchor, is not by VP Buildings.

If flange braces are allowed, they will be considered to be allowed at the outside flange attachment locations given in Option A, B (if attached to wall) or C., unless specifically noted otherwise.

Please provide flange brace locations with reference from finished floor if not allowed at outside flange attachments:

Flange attachment locations: _____

THIS INFORMATION IS BY VP BUILDINGS:

1) Fv = _____ kips per flange brace

2) Ft = _____ kips per flange brace

Warnings:

- Set frame drift and wall material as desired.
- Column flange outsides must also be connected to masonry at all flange brace locations.
- You should provide your Service Center with applicable *Order Clarification Forms*. See OCF #'s FM702915 through FM702918.