Footings - Types and Input Parameters

Description:

There are several footing types subject to structural analysis. This worksheet provides input data for the footing types. Parameters in this worksheet are fed to separate worksheets where separate per-footing analysis is performed.

Footing Type			Parameters						
Detail	Qty	Key	Length	Width	Pier Ln	Pier Wd	Pier H	Footing H	Volume, cu.ft
MAIN BUILDING									
A	4	MB-A	7.5000	5.5000	2.0000	1.2500	3.0000	1.3330	**249.95**
B	4	MB-B	7.5000	5.5000	2.0000	1.2500	3.0000	1.3330	**249.95**
C	0	MB-C	7.5000	5.5000	2.0000	1.2500	3.0000	1.3330	**0.00**
D	0	MB-D	7.5000	5.5000	2.0000	1.2500	3.0000	1.3333	**0.00**
E	1	MB-E	12.2500	8.7500	2.7500	1.7500	3.0000	1.3333	**157.35**
F	11	MB-F	12.2500	8.7500	2.7500	1.7500	3.0000	1.3333	**1730.86**
G	1	MB-G	12.2500	8.7500	2.7500	1.7500	3.0000	1.3333	**157.35**
H	11	MB-H	12.2500	8.7500	2.7500	1.7500	3.0000	1.3333	**1730.86**
								Total:	4276.30
BUILDING 2									
A		B2-A	9.0000	5.0000	2.0000	1.1250	2.0000	1.2400	**0.00**
B		B2-B	9.0000	5.0000	2.0000	1.1250	2.0000	1.2400	**0.00**
C		B2-C	9.0000	5.0000	2.0000	1.1250	2.0000	1.2400	**0.00**
								Total:	0.00
BUILDING 3									
A		B3-A	9.0000	5.0000	2.0000	1.1250	2.0000	1.2400	**0.00**
B		B3-B	9.0000	5.0000	2.0000	1.1250	2.0000	1.2400	**0.00**
C		B3-C	9.0000	5.0000	2.0000	1.1250	2.0000	1.2400	**0.00**
D		B3-D	9.0000	5.0000	2.0000	1.1250	2.0000	1.2400	**0.00**
								Total:	0.00

Results

The results are aggregated from analysis files. Governing design values are shown in RED.

Footing Type		Results						
Detail	Key	P1	P2	P3	P4	P_{max}(net)	FS(ot)y	FS(uplift)
MAIN BUILDING		C94	C95	C96	C97	C108	C70	C83

A	MB-A	1.68	1.68	1.02	1.02	1.24	4.02	0.00
B	MB-B	1.31	1.31	0.47	0.47	0.87	1.52	0.00
C	MB-C	1.00	1.00	0.50	0.50	0.56	4.37	0.00
D	MB-D	0.95	0.95	0.54	0.54	0.51	4.74	0.00
E	MB-E	1.06	1.06	1.89	1.89	1.45	1.52	0.00
F	MB-F	1.06	1.06	1.89	1.89	1.45	1.52	0.00
G	MB-G	1.60	1.60	0.78	0.78	1.16	1.77	0.00
H	MB-H	2.56	2.56	0.92	0.92	2.12	5.83	0.00
BUILDING 2								
A	B2-A							
B	B2-B							
C	B2-C							
BUILDING 3								
A	B3-A							
B	B3-B							
C	B3-C							
D	B3-D							

0