

8/28/2008

Code	1 Stl. I- Girder	2 Stl. Box	3 Conc. Seg.	4 Wave frame	5 Sail Blade	6 Tied Arch	7 Thru Arch	8 Extrados ed	9 Cable Stay'd	10a Swing Hi	10b Low	11a Vert. Lift Hi	11b Low	12a Stl. I-Girder	12b Composite
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Screening Criteria ("Many to Some")

Code	Engineering															
	<i>Fundamental</i>															
a1	Initial Cost	15	14	13	11	7	12	10	9	8	6	5	4	3	2	1
a2	Cost Escalation Risk	10	9	15	8	7	11	12	14	13	6	5	4	3	2	1
b	Constructability/Schedule Risk	15	14	13	11	7	12	8	9	10	5	6	3	4	2	1
c	Lifecycle Cost/Maintenance	7	8	15	12	11	9	10	14	13	4	3	2	1	5	6
d	Location, and Size of Piers	9	8	7	13	15	12	10	11	14	5	6	3	4	2	1
e	Flexibility	9.0	11.5	13.9	7.6	7.4	9.5	9.3	6.3	6.8	9.0	9.3	8.2	8.5	5.2	4.9
f	Seismic Performance	9	12	7	13	11	8	10	14	15	5	6	3	4	2	1
g	Navigation Performance	4	5	3	9	8	10	6	7	11	14	12	15	13	2	1
	Total Engineering Score:	78.0	81.5	86.9	84.6	73.4	83.5	75.3	84.3	90.8	54.0	52.3	42.2	40.5	22.2	16.9
	Rank	7	6	2	3	9	5	8	4	1	10	11	12	13	14	15

	<i>Flexibility Considerations</i>															
h	Deflection (OCS and Pedestrian Comfort)	4	4	5	3	2	2	2	2	1	4	4	5	5	4	4
i	<i>Not Used</i>															
j	Transit Duct Bank Integration	1	4	5	3	2	3	3	3	1	5	5	3	3	1	1
k	OCS Integration Complexity	4	5	5	2	2	3	3	3	2	2	2	2	2	1	1
l	<i>Not Used</i>															
m	Deck Program Efficiency	5	5	5	3	3	3	2	1	1	5	5	3	3	3	3
n	Navigation Clearance- Vertical (more than minimum)	1	2	4	4	4	4	4	4	5	3	3	3	3	1	1
o	Navigation Clearance- Horizontal (more than minimum)	1	1	2	3	3	3	3	3	5	3	3	3	3	1	1
p	Flexibility to Accommodate Profile Changes	1	1	5	2	5	5	5	3	5	3	4	3	4	1	1
q	Accommodation of Curved Side Spans	2	5	5	1	1	3	3	1	1	5	5	5	5	1	1
r	Accommodates Localized Widening ("view points")	5	5	5	3	3	3	3	1	1	1	1	1	1	1	1
s	Accommodates more than 24' of path (more than 12'/side)	5	5	5	1	1	3	3	1	2	1	1	1	1	3	3
t	Could Accommodate Asymmetric Loading	4	5	5	3	1	3	3	1	1	1	1	1	1	2	1
u	<i>Not Used</i>															
v	<i>Not Used</i>															
	Flexibility average- (compute averages of codes h-v)	9.0	11.5	13.9	7.6	7.4	9.5	9.3	6.3	6.8	9.0	9.3	8.2	8.5	5.2	4.9