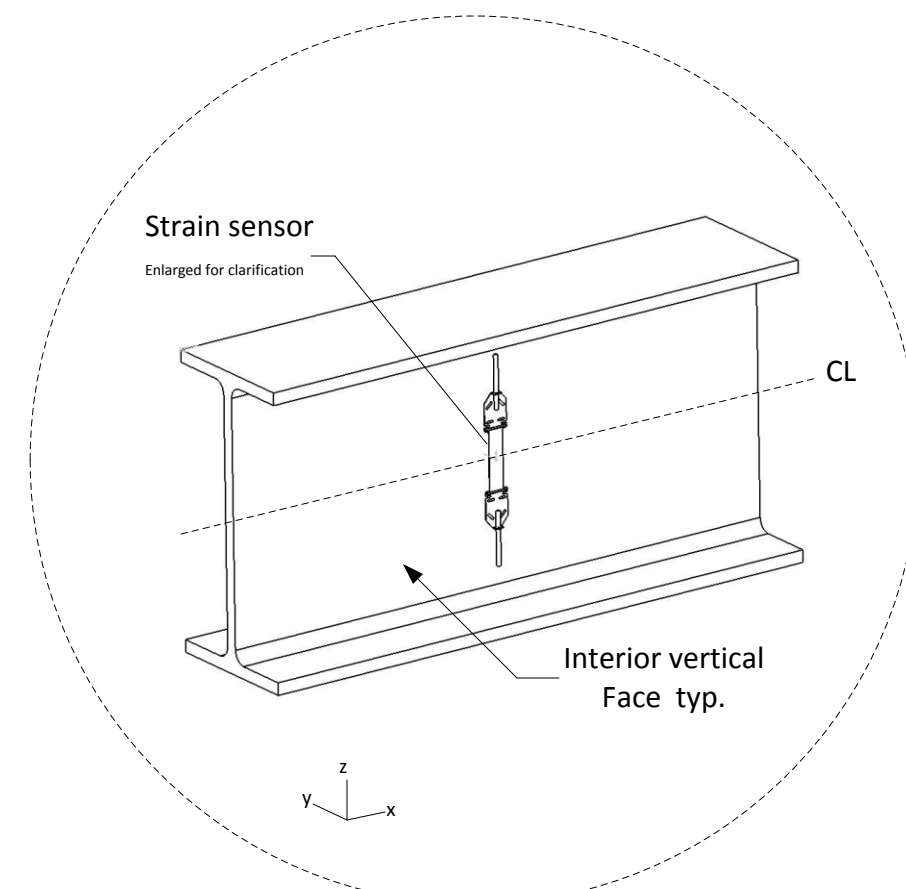
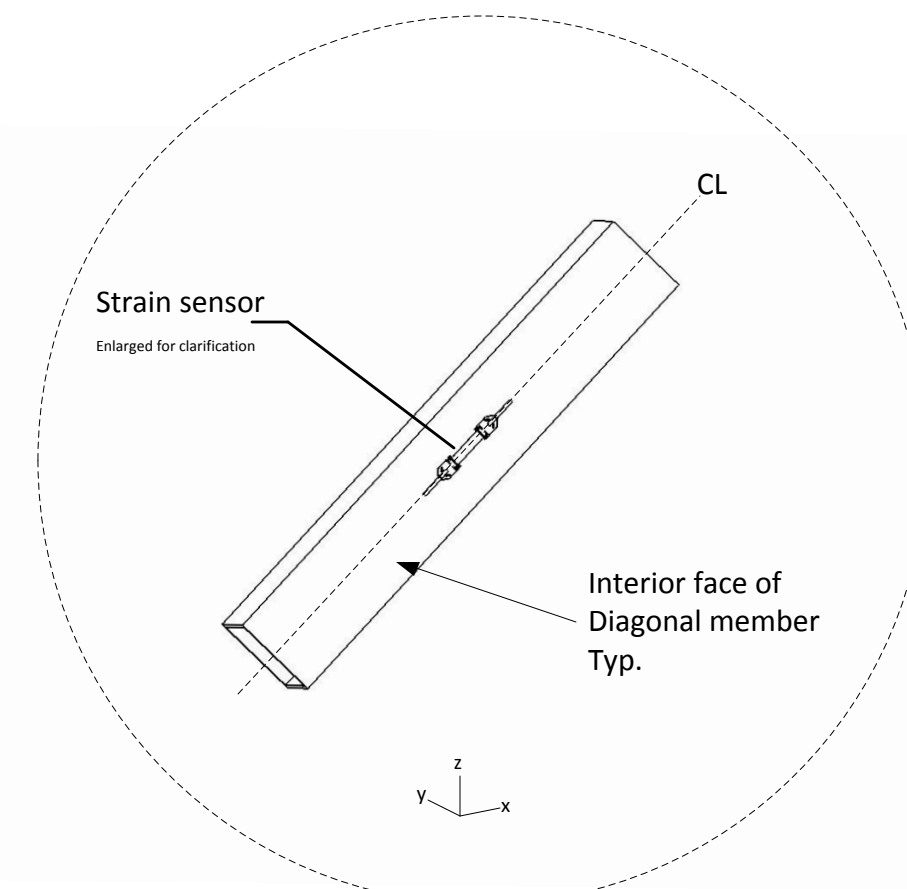


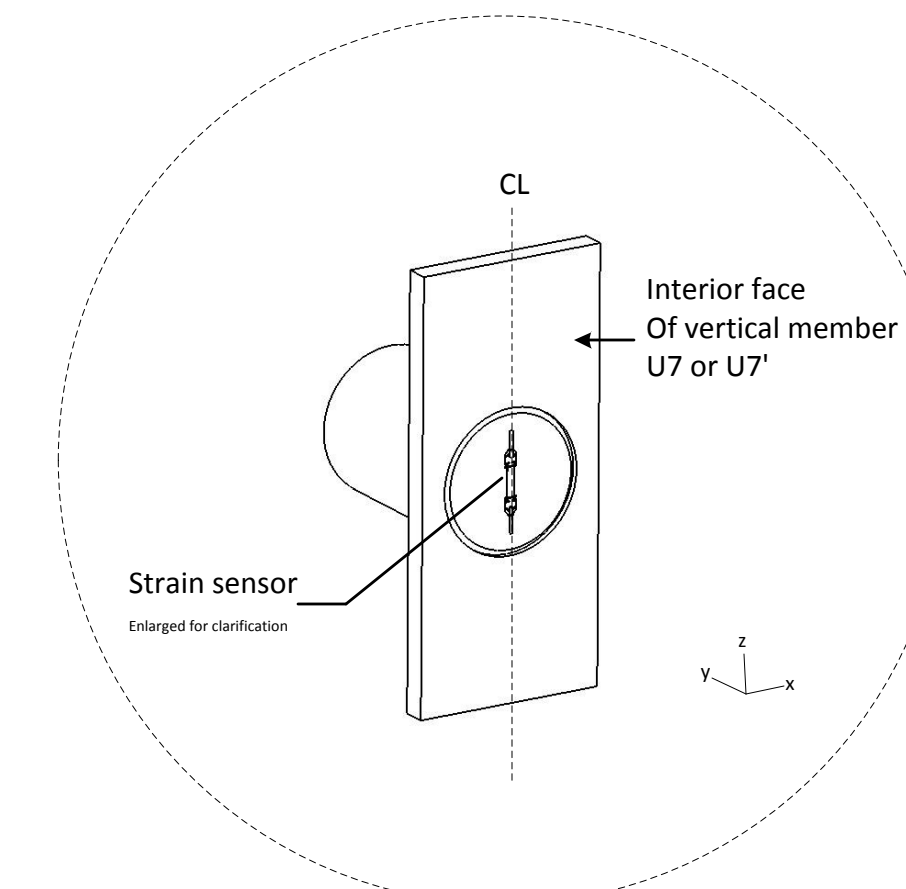
Detail A



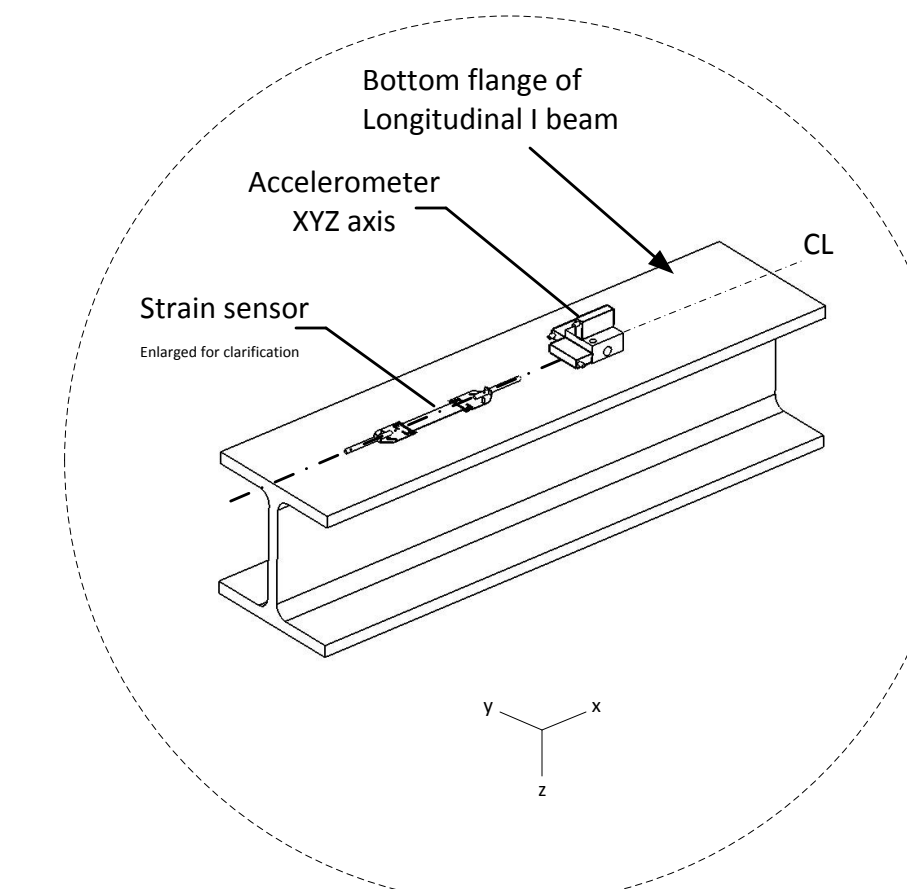
Detail B



Detail C



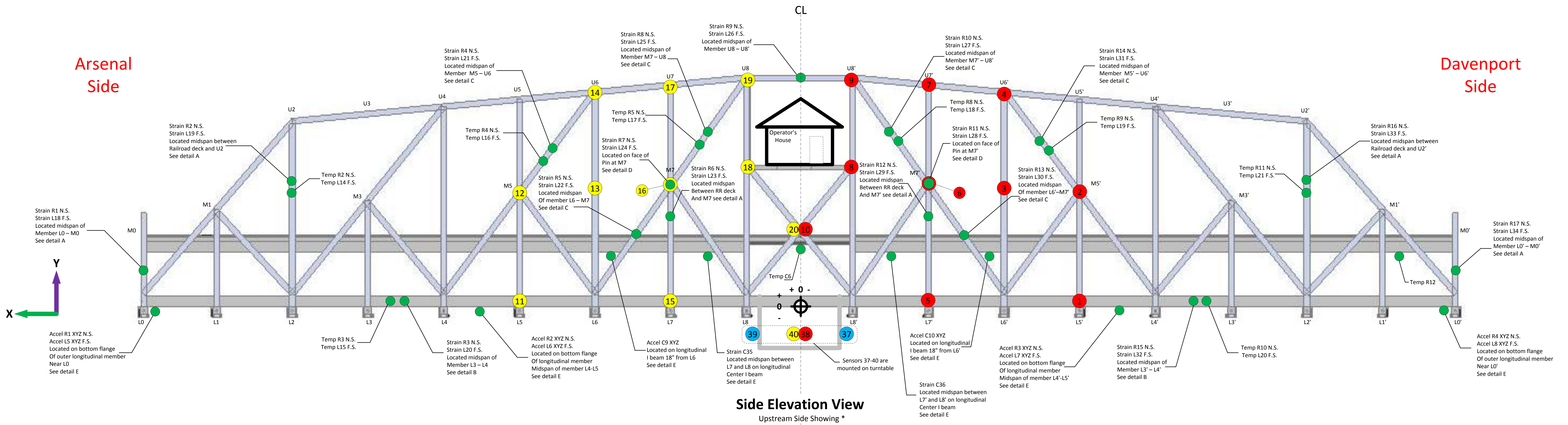
Detail D



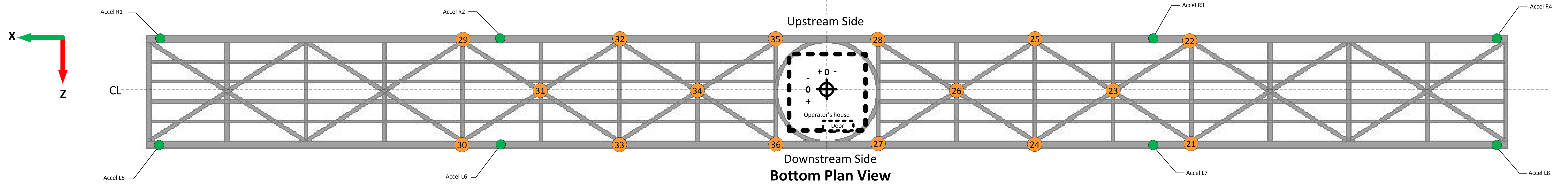
Detail E

Arsenal Side

Davenport Side



Side Elevation View
Upstream Side Showing *



Bottom Plan View
Downstream Side

Sensor coordinate locations (all dimensions are in feet)

sensor	X	Y	Z	sensor	X	Y	Z	sensor	X	Y	Z	AE sensor	X	Y	Z	AE sensor	X	Y	Z
Strain R1	182.5	10.5	-14.5	Strain L18	182.5	10.5	14.5	Strain C35	25	17	0	1	-77.5	0	-14.5	21	-98.5	0	14.5
Strain R2	140.5	34	-14.5	Strain L19	140.5	34	14.5	Strain C36	-25	17	0	2	-77.5	28.9	-14.5	22	-98.5	0	-14.5
Strain R3	109	1.5	-14.5	Strain L20	109	1.5	14.5	Accel R1	181	0	-14.5	3	-56.5	29.8	-14.5	23	-77.5	0	0
Strain R4	67	40	-14.5	Strain L21	67	40	14.5	Accel R2	88	0	-14.5	4	-56.5	57.9	-14.5	24	-56.5	0	14.5
Strain R5	46	20	-14.5	Strain L22	46	20	14.5	Accel R3	-88	0	-14.5	5	-35.5	0	-14.5	25	-56.5	0	-14.5
Strain R6	35.5	24	-14.5	Strain L23	35.5	24	14.5	Accel R4	-181	0	-14.5	6	-35.5	31.4	-14.5	26	-35.5	0	0
Strain R7	35.5	31.4	-14.5	Strain L24	35.5	31.4	14.5	Accel L5	181	0	14.5	7	-35.5	60.3	-14.5	27	-14.5	0	14.5
Strain R8	25	45	-14.5	Strain L25	25	45	14.5	Accel L6	88	0	14.5	8	-14.5	37.2	-14.5	28	-14.5	0	-14.5
Strain R9	0	62	-14.5	Strain L26	0	62	14.5	Accel L7	-88	0	14.5	9	-14.5	62	-14.5	29	98.5	0	-14.5
Strain R10	-25	45	-14.5	Strain L27	-25	45	14.5	Accel L8	-181	0	14.5	10	0	19	-14.5	30	98.5	0	14.5
Strain R11	-35.5	31.4	-14.5	Strain L28	-35.5	31.4	14.5	Accel C9	55	17	0	11	77.5	0	14.5	31	77.5	0	0
Strain R12	-35.5	24	-14.5	Strain L29	-35.5	24	14.5	Accel C10	-55	17	0	12	77.5	28.9	14.5	32	56.5	0	-14.5
Strain R13	-46	20	-14.5	Strain L30	-46	20	14.5					13	56.5	29.8	14.5	33	56.5	0	14.5
Strain R14	-67	40	-14.5	Strain L31	-67	40	14.5					14	56.5	57.9	14.5	34	35.5	0	0
Strain R15	-109	1.5	-14.5	Strain L32	-109	1.5	14.5					15	35.5	0	14.5	35	14.5	0	-14.5
Strain R16	-140.5	34	-14.5	Strain L33	-140.5	34	14.5					16	35.5	31.4	14.5	36	14.5	0	14.5
Strain R17	-182.5	10.5	-14.5	Strain L34	-182.5	10.5	14.5					17	35.5	60.3	14.5	37	-14.5	-8.3	0
												18	14.5	37.2	14.5	38	0	-8.3	-14.5
												19	14.5	62	14.5	39	14.5	-8.3	0
												20	0	19	14.5	40	0	-8.3	14.5

●	Strain, temp and accelerometer
●	AE sensor located on Upstream side
●	AE sensor located on Downstream side
●	AE sensor located on underside of lower deck
●	AE sensor located on turntable (Z axis center)

* Note: Bridge is oriented when door of the operator's house is facing downstream

Chandler Monitoring Systems			
Arsenal-Rock Island			
Sensor location and orientation			
REV	PROJ NO	DWG NO	REV
		Arsenal sensor orientation	1
SCALE	1:1	8/24/2010	1 OF 1