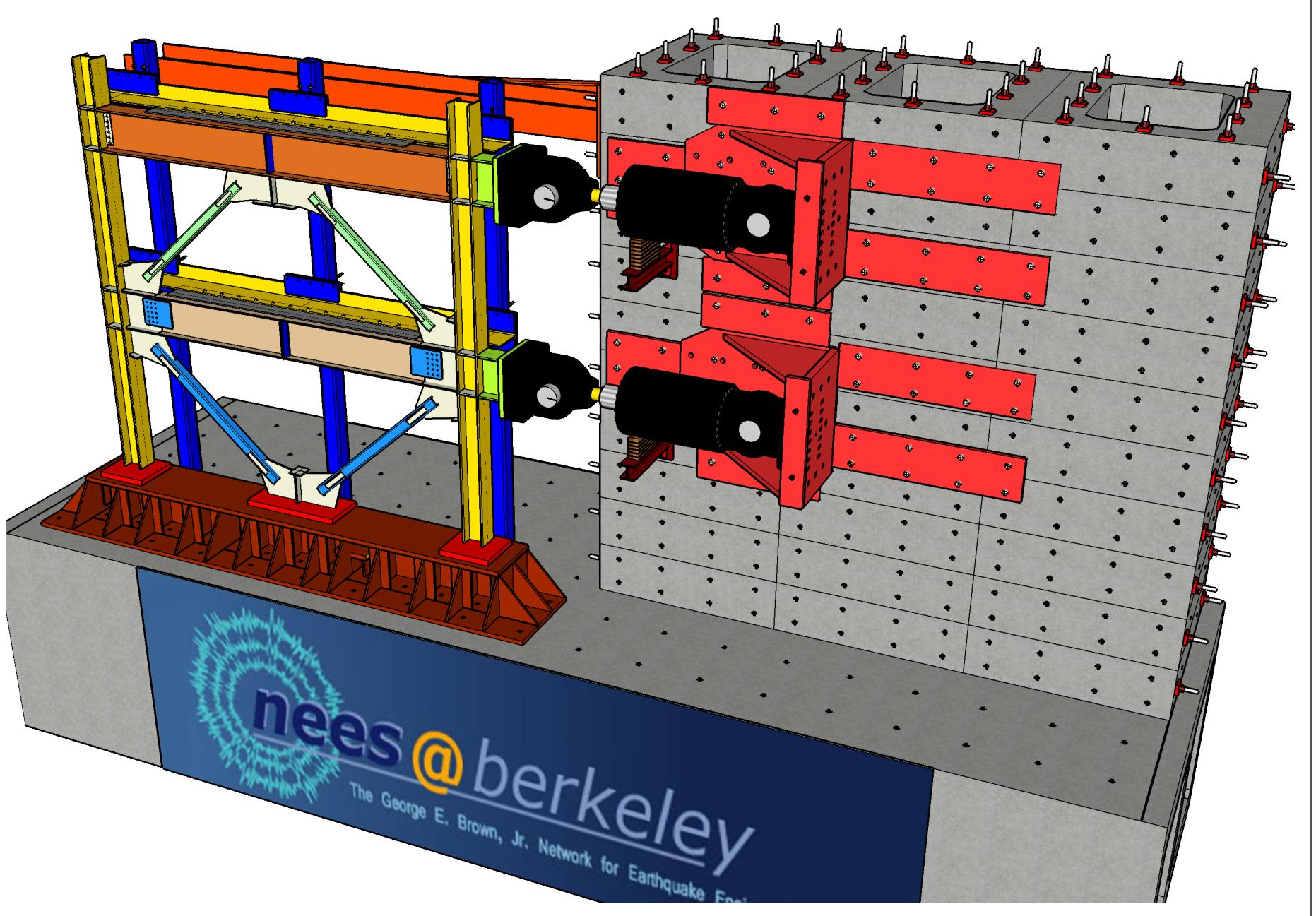

Appendix G

Channel Locations and Lists for Specimen TCBF-B-4



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Steel Frame Structures

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TCBF-B-4, Sensor Locations
S.00



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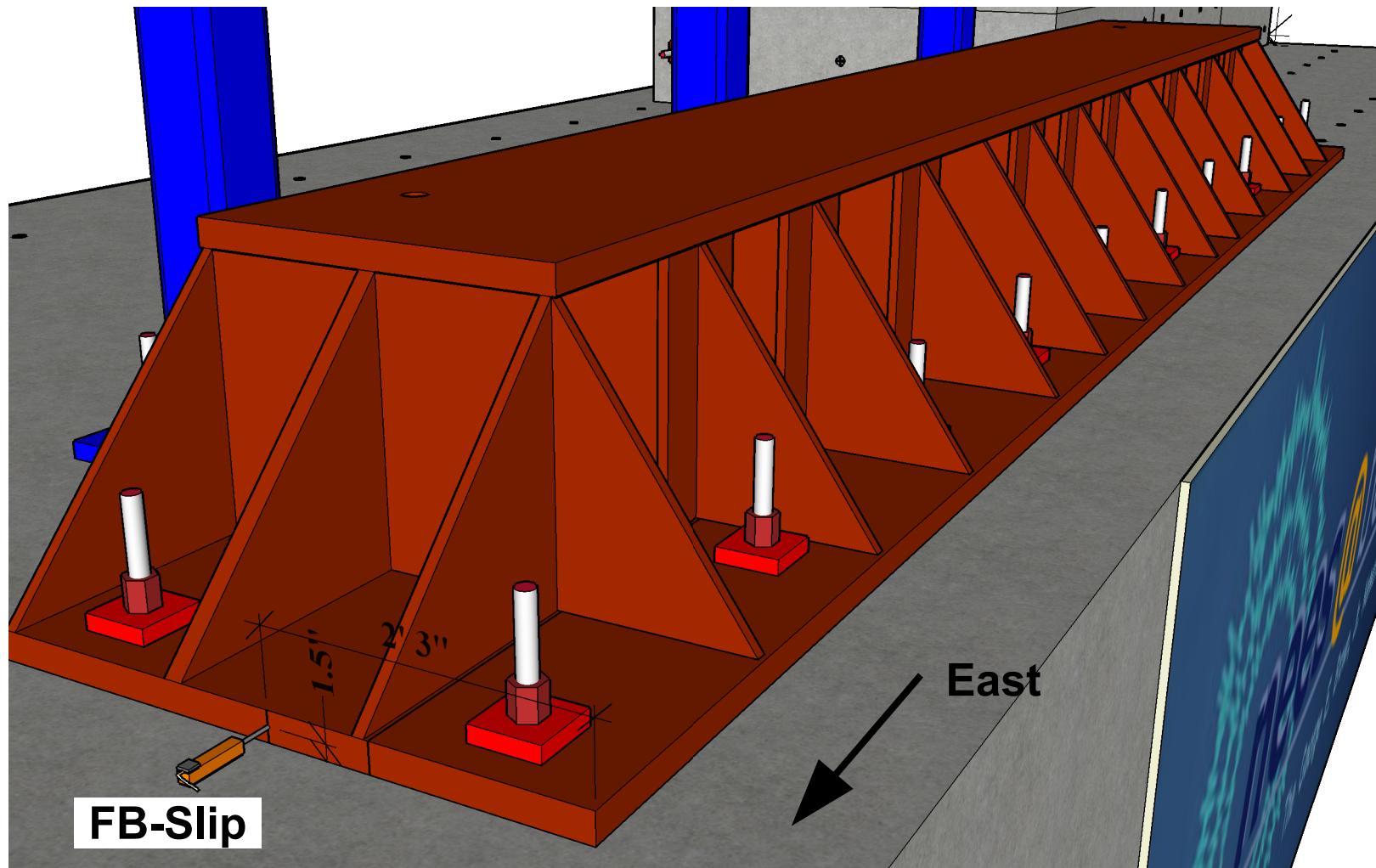
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Sensor
Locations

S.01



FB-Slip = floor beam slip monitoring (east side, location is shown in the figure)



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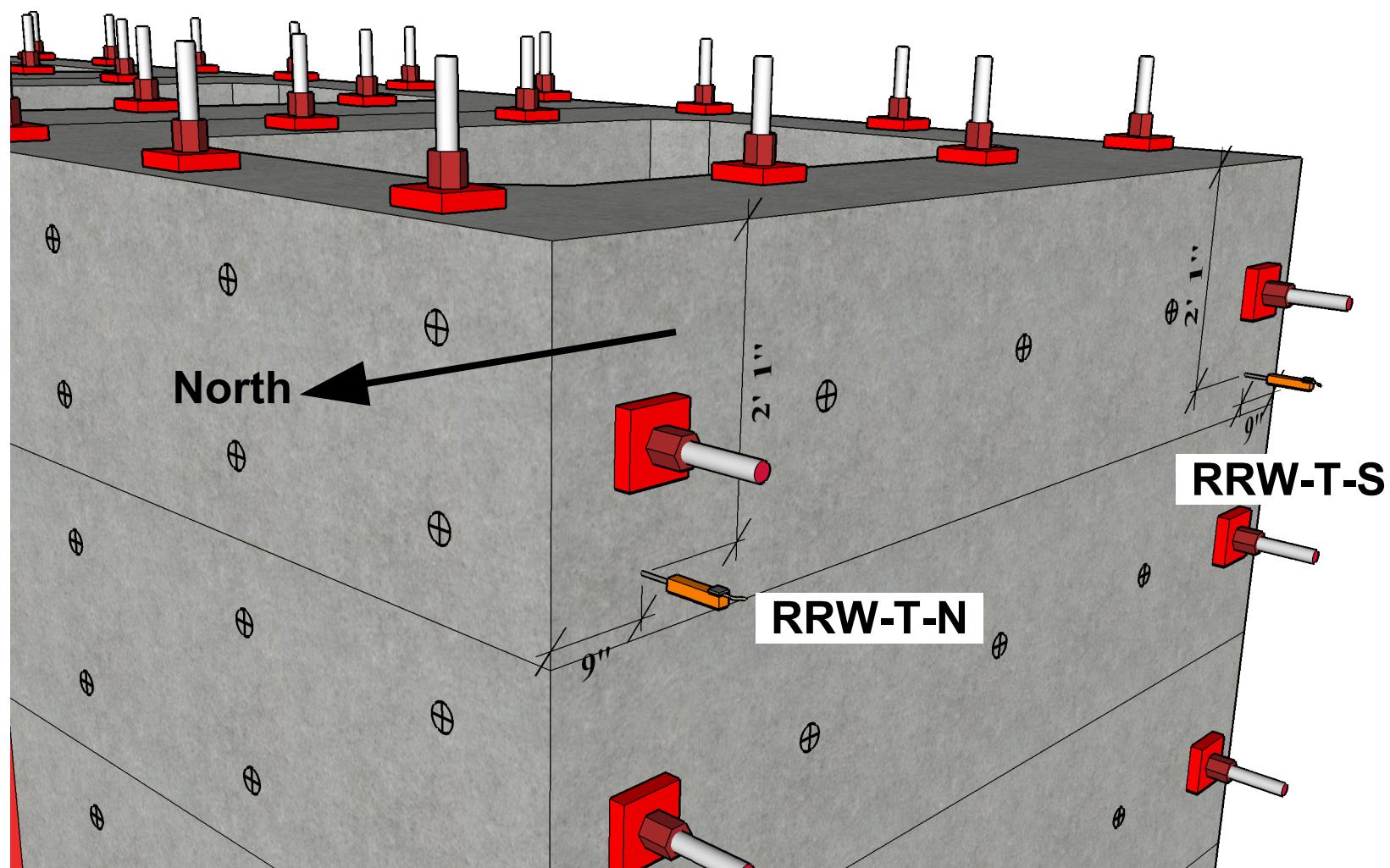
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Locations



**RRW-T-N = north side of reconfigurable reaction wall (RRW),
top deformation monitoring (location is shown in the figure)**

**RRW-T-S = south side of reconfigurable reaction wall (RRW),
top deformation monitoring (location is shown in the figure)**

S.02



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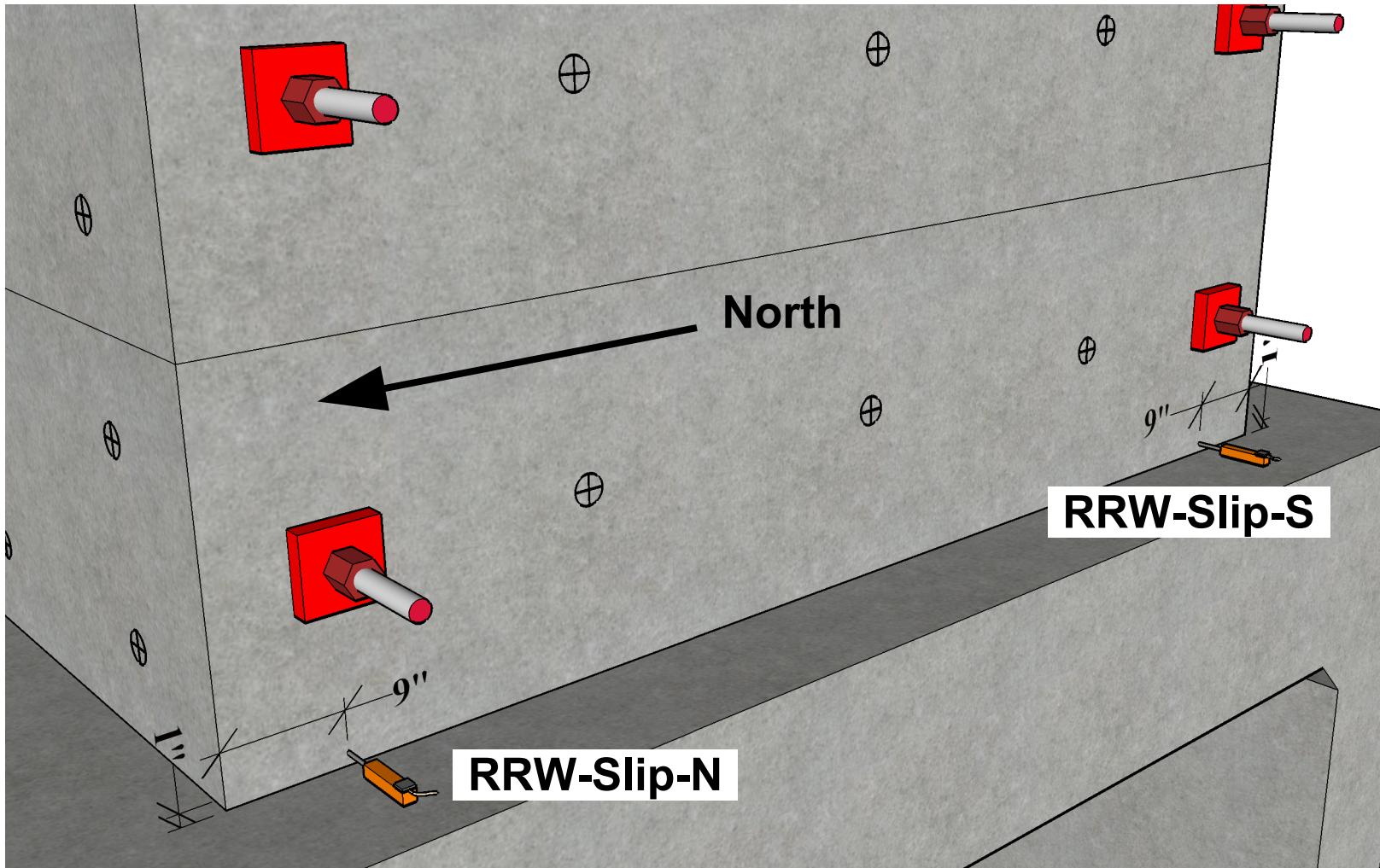
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**RRW-Slip-N = north side of reconfigurable reaction wall (RRW)
near base, slip monitoring (location is shown in the figure)**

**RRW-Slip-S = south side of reconfigurable reaction wall (RRW)
near base, slip monitoring (location is shown in the figure)**

S.03



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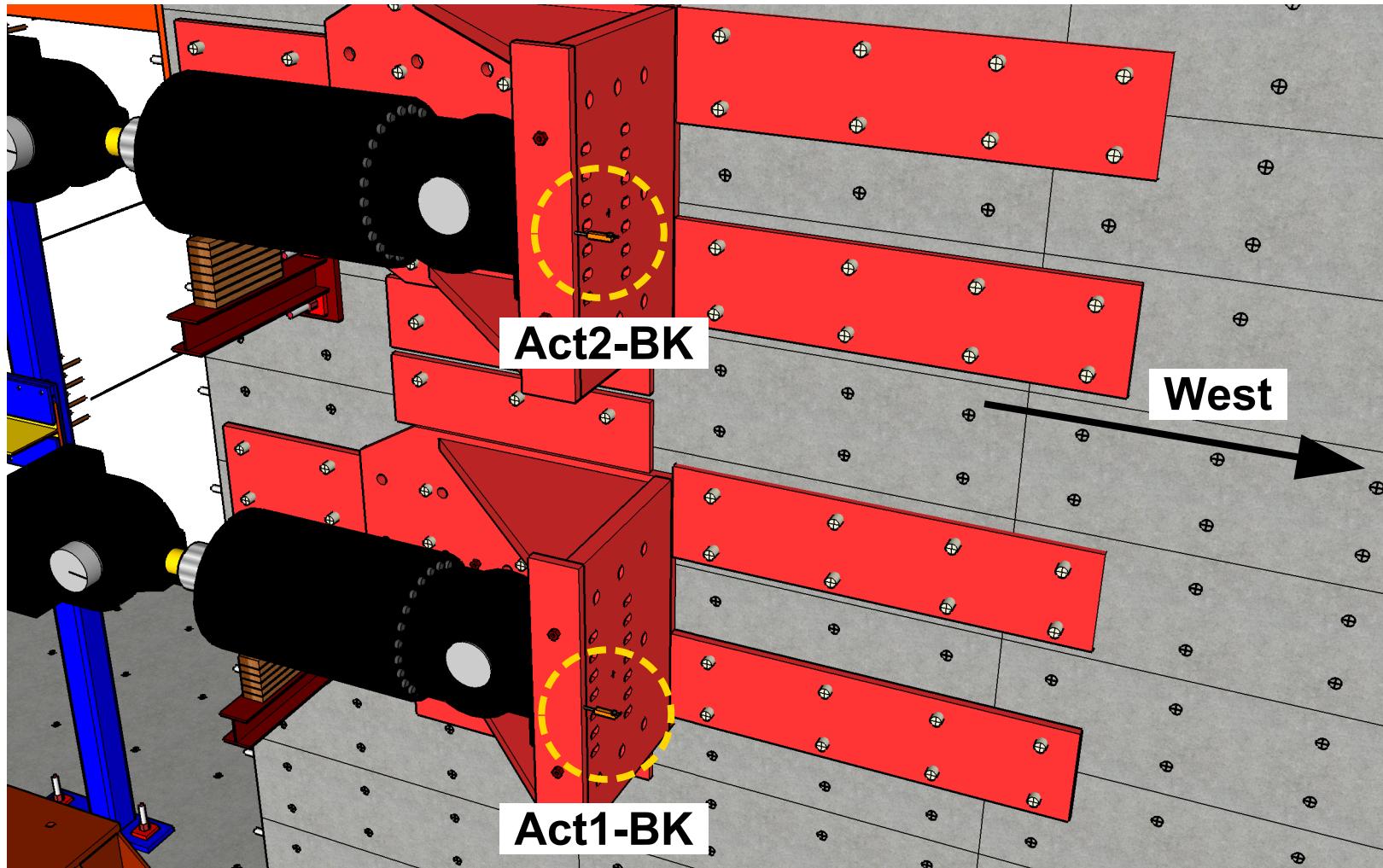
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Sensor Locations



**Act1-BK = lower actuator bracket deformation monitoring
(location is shown in the figure)**

**Act2-BK = upper actuator bracket deformation monitoring
(location is shown in the figure)**

S.04



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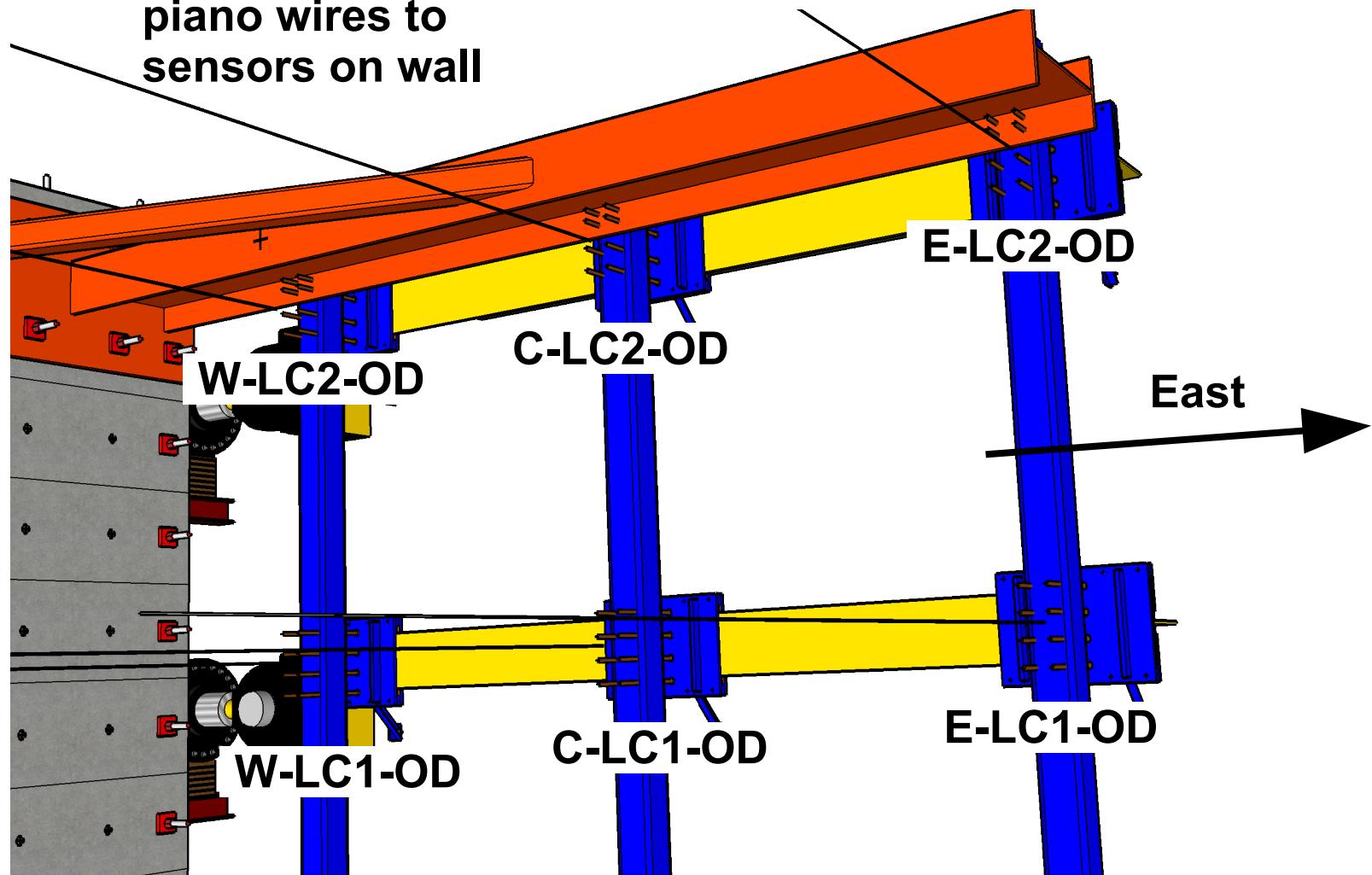
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Sensor
Locations

S.05



E-LC1-OD (location is shown in the figure)

- Out-of-plane Deformation monitoring
- LC1 or LC2 (1F or 2F HSS columns, lateral)
- E, W or C (east, west or center)



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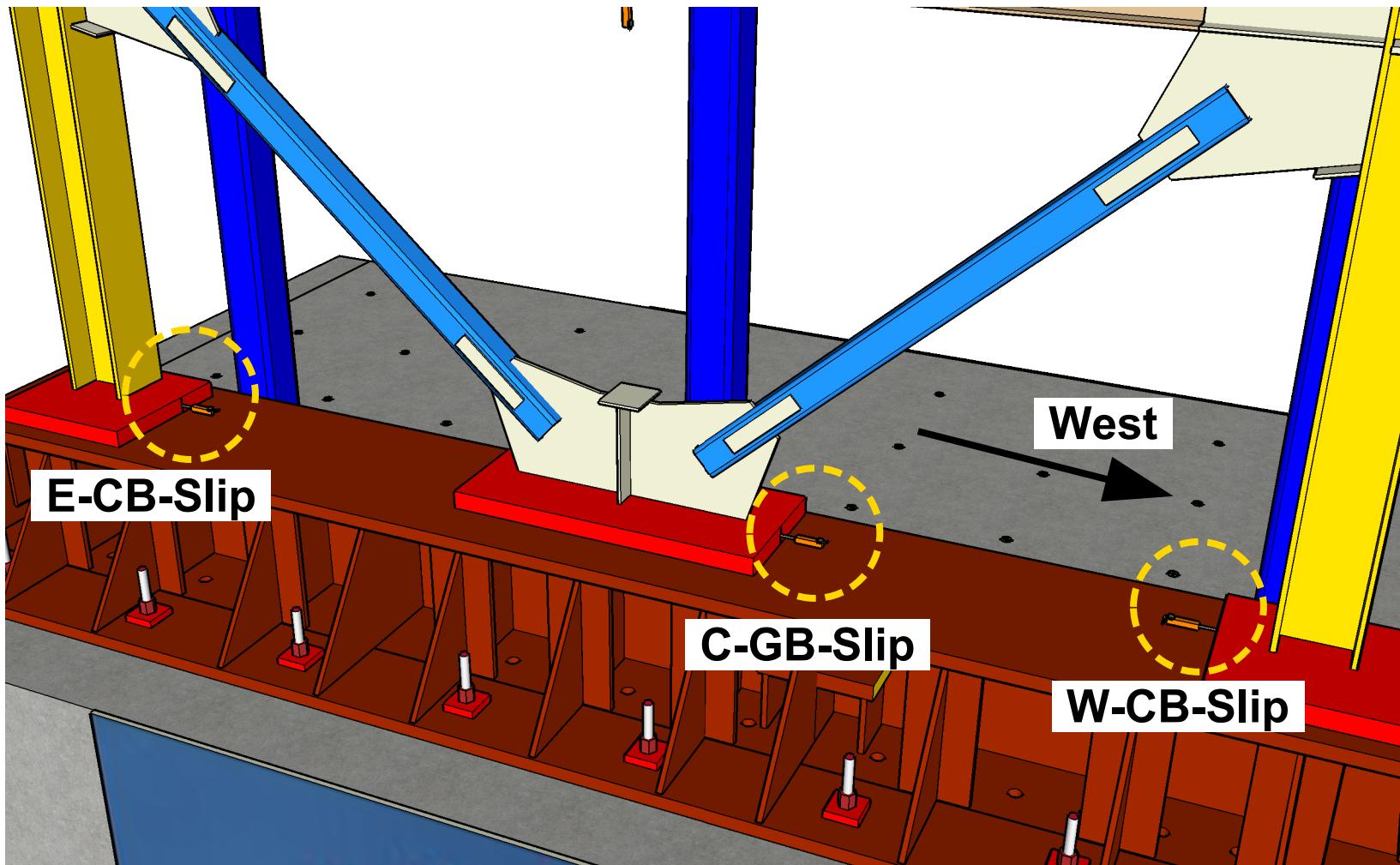
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Locations



E-CB-Slip = east column base slip monitoring

C-GB-Slip = center gusset plate base slip monitoring

W-CB-Slip = west column base slip monitoring

(locations are shown in the figure, align with the braced frame center plane)

S.06



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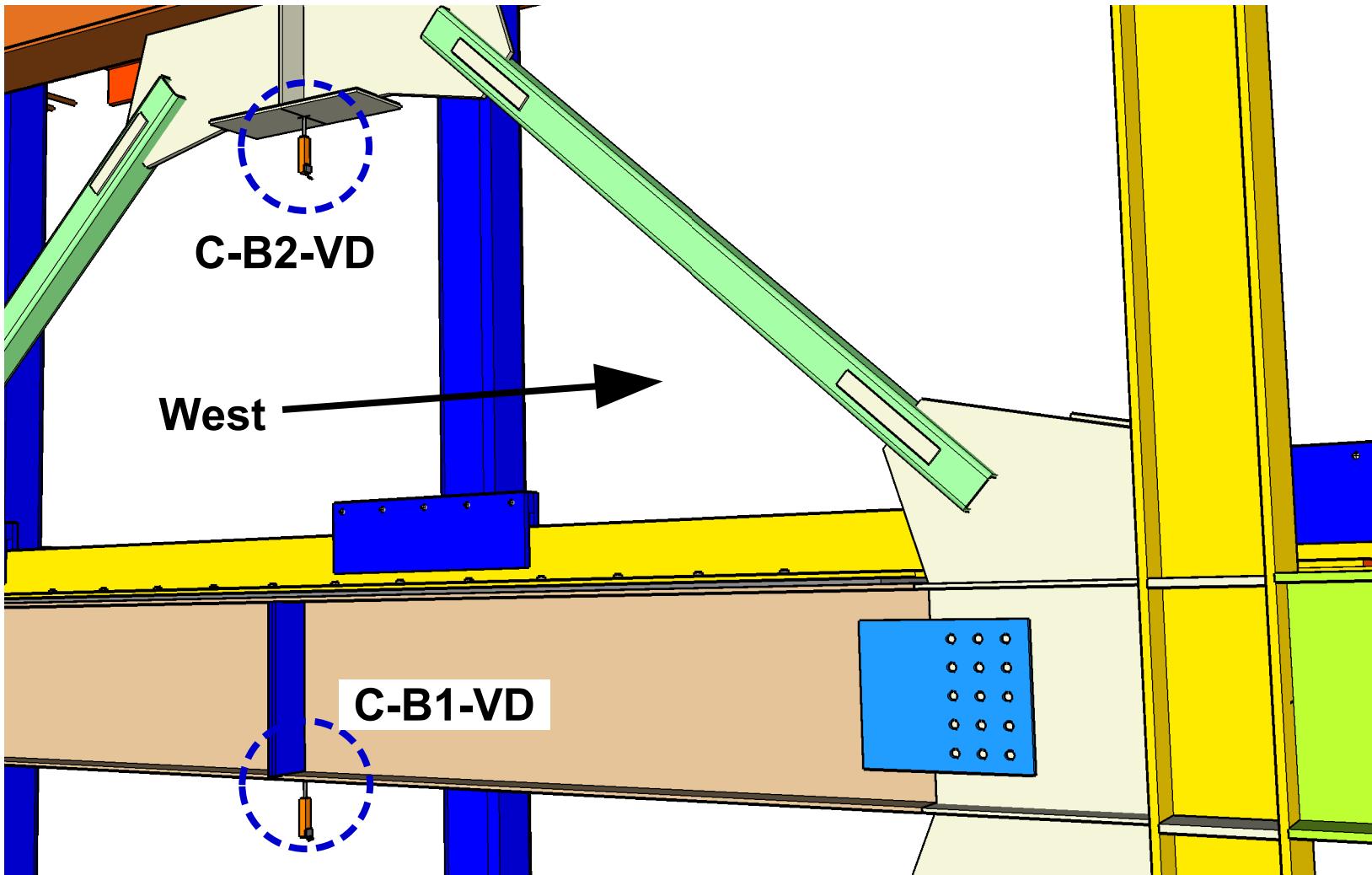
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Locations



C-B2-VD = roof beam (2F) center deflection monitoring

C-B1-VD = lower beam (1F) center deflection monitoring

(locations are shown in the figure, align with the beam bottom flange centerline)

S.07



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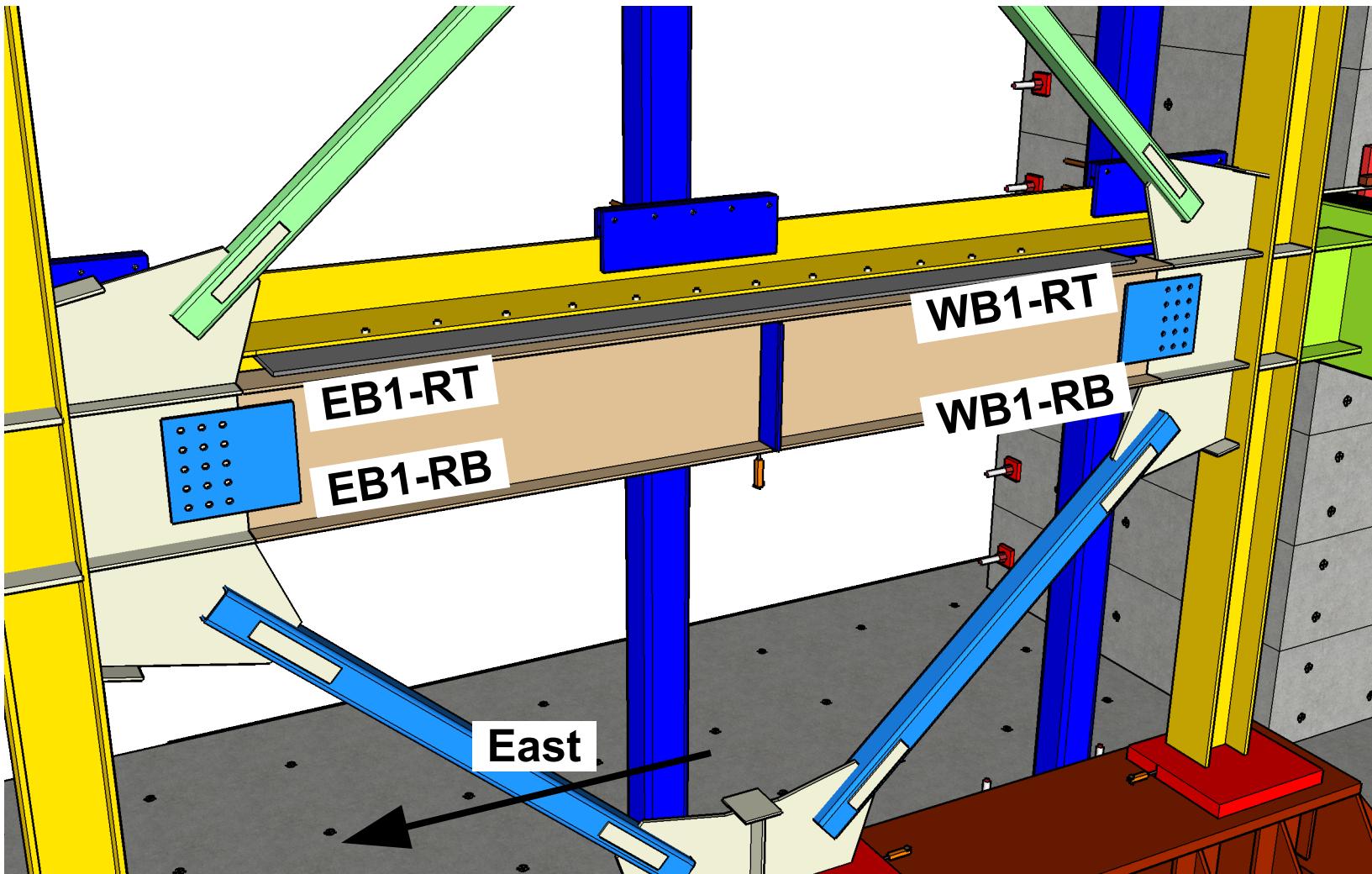
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Sensor
Locations

S.08



WB1-RT, WB1-RB = west lower beam (1F) rotation monitoring

EB1-RT, EB1-RB = east lower beam (1F) rotation monitoring

RT, RB = top or bottom side

(locations are shown in the figure, distance between two centerlines of top and bottom sticks is 21")



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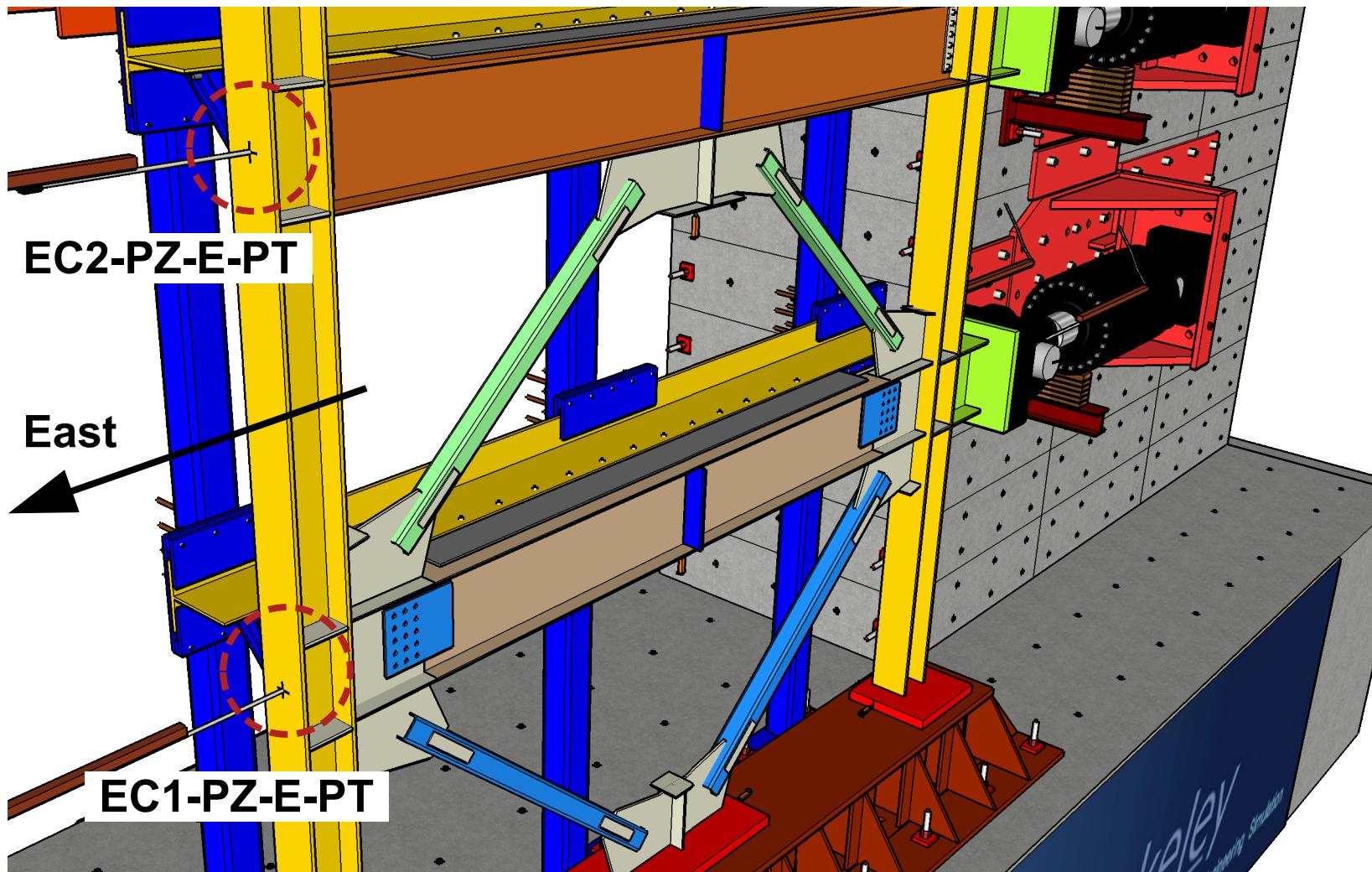
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Sensor
Locations



EC2-PZ-E-PT = roof level (2F) displacement monitoring

EC1-PZ-E-PT = lower level (1F) displacement monitoring

(locations are shown in the figure, align with the beam centerline at each floor level)

S.09



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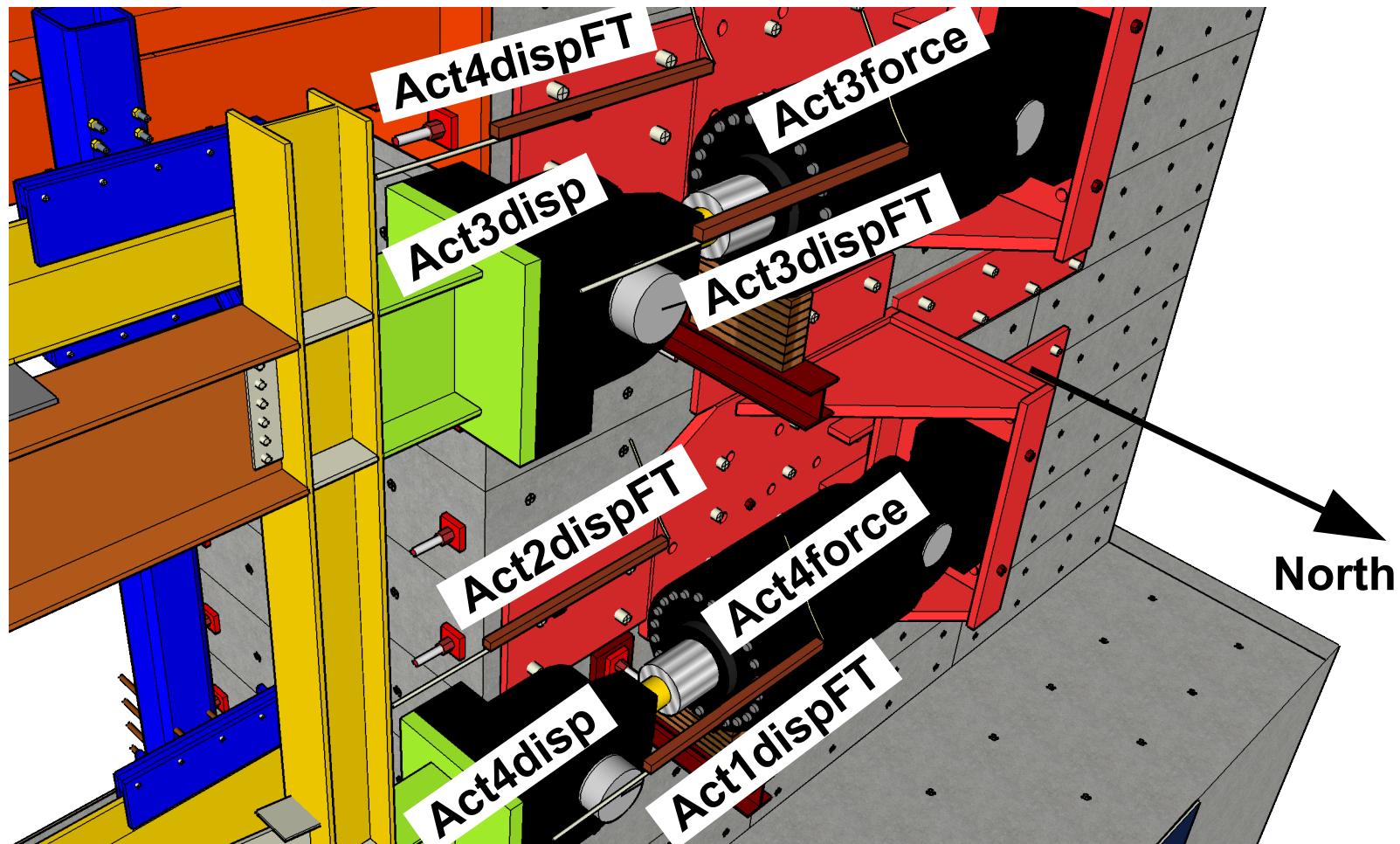
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Sensor
Locations



**Act3dispFT, Act4sidpFT = roof level displacement monitoring
(north and south side)**
**Act1dispFT, Act2dispFT = lower level displacement monitoring
(north and south side)**
Act3force, Act4force = roof and lower level load cell
**Act3disp, Act4disp = averaged top and bottom level displacement
for control (locations are shown in the figure)**



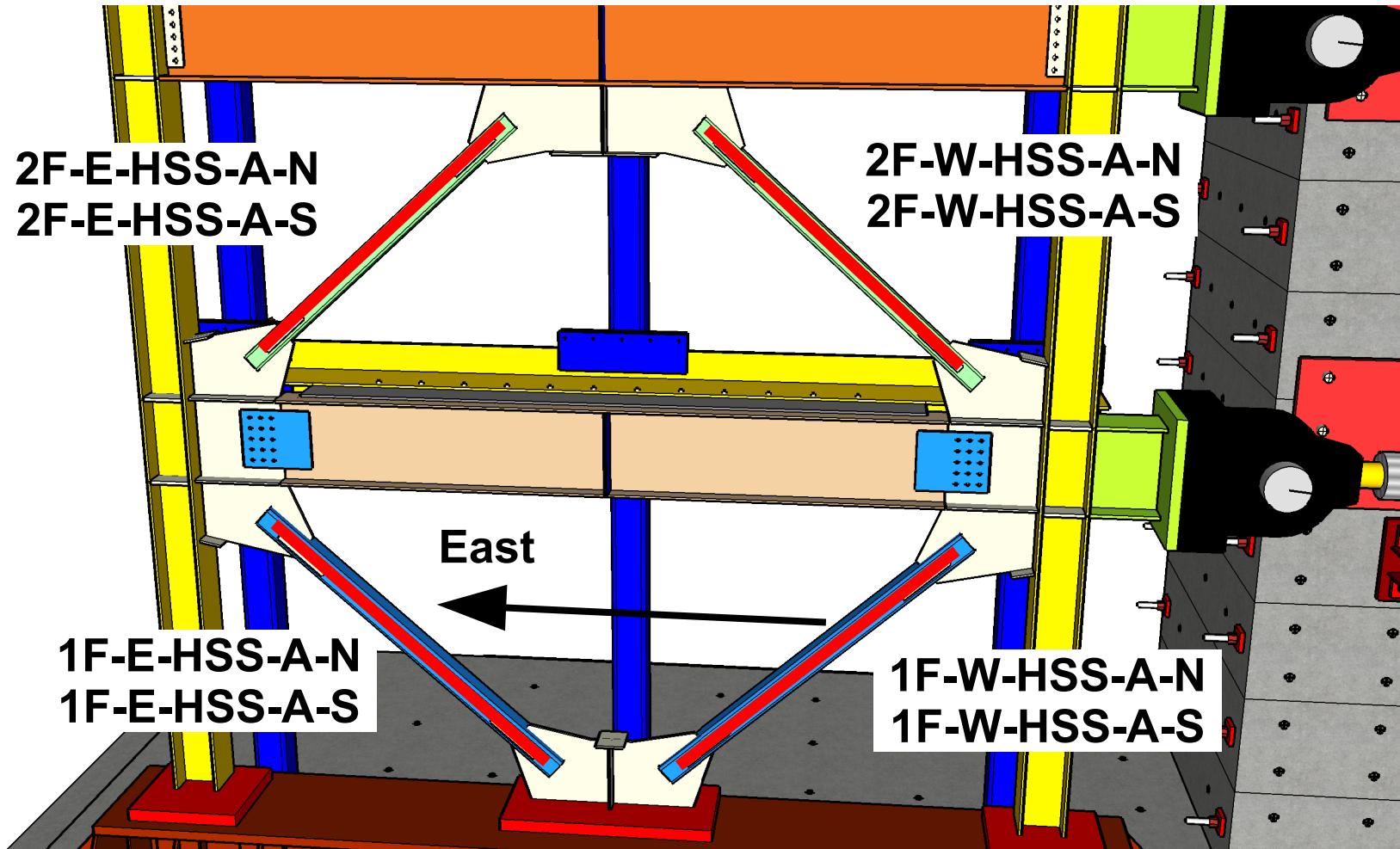
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Sensor
Locations



1F = first story; 2F = second story

E = east side; W = west side; A = axial direction

S = south side; N = north side

**Square HSS brace axial deformation monitoring along the axis
of brace (wire pot locations are shown in the figure)**

S.11

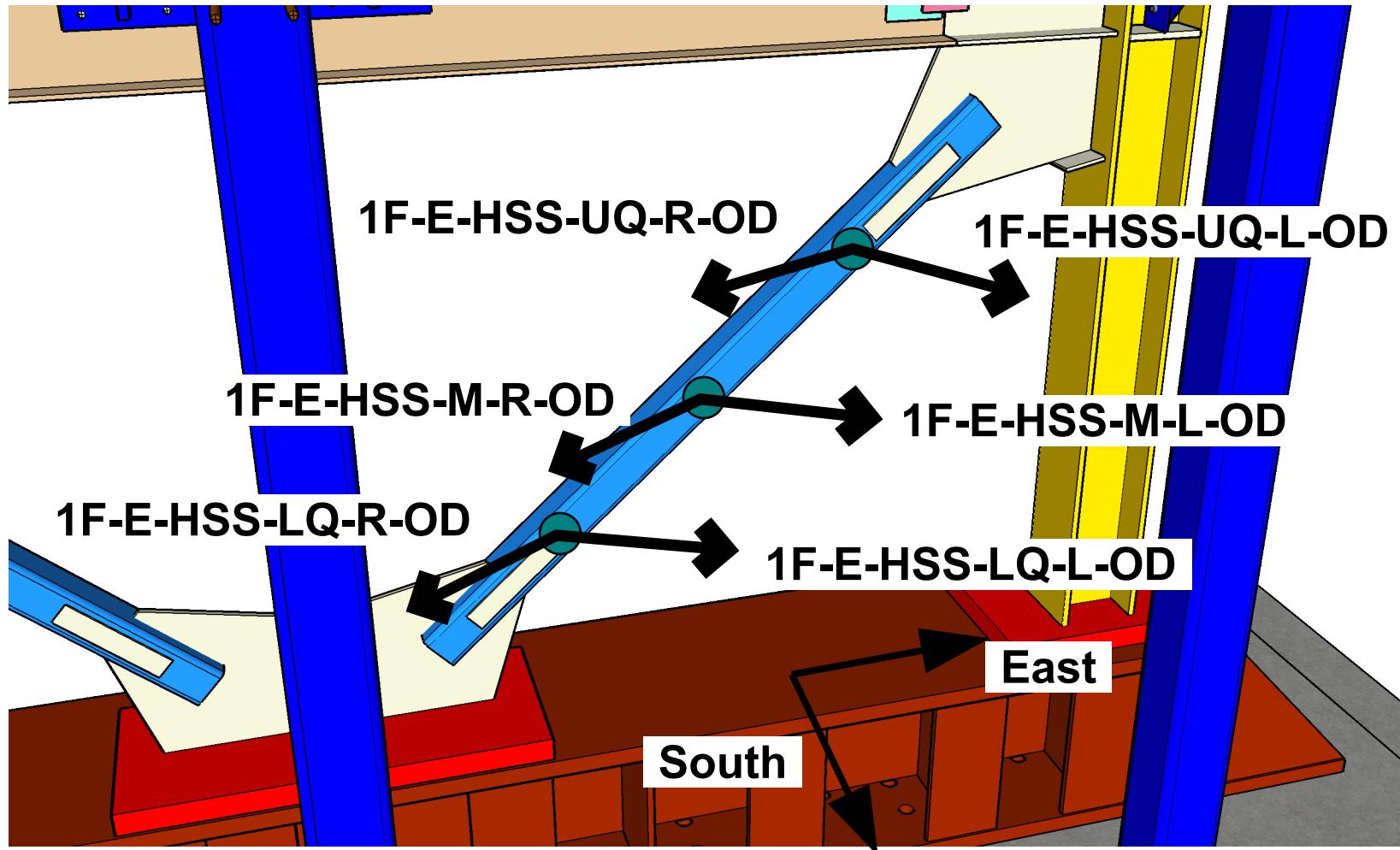


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Locations



Typical brace out-of-plane deformation monitoring (wire pot directions are shown in the figure for one brace, other braces are similar, six wire pots per brace)

1F-E-HSS-UQ-R-OD

- lefthand (L) or righthand (R) side when facing to south
- upper quarter (UQ), middle (M) or lower quarter point (LQ)
- east side brace (E-HSS) or west side brace (W-HSS)
- first story brace (1F) or second story brace (2F)



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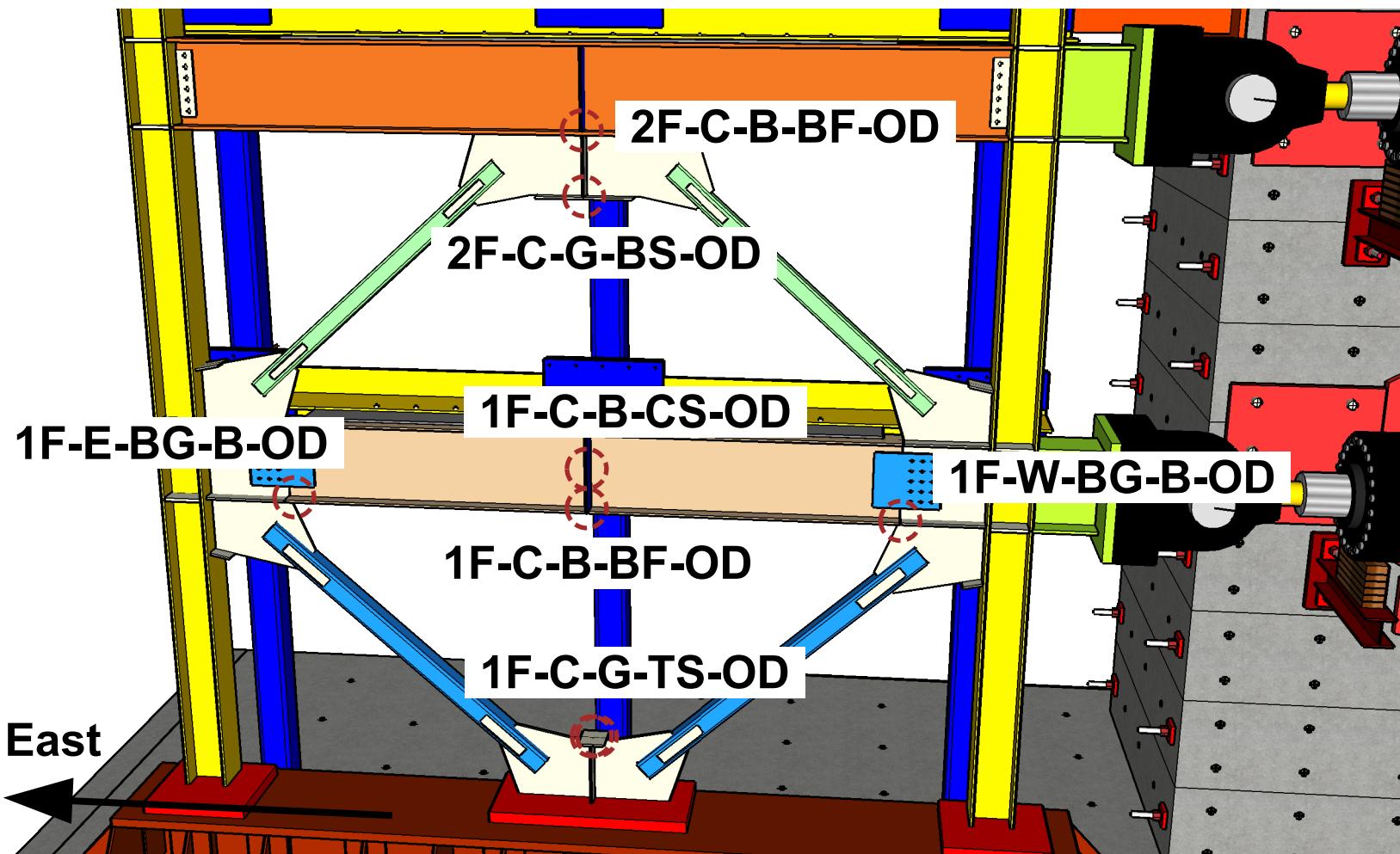
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Sensor Locations



B = beam side corner; OD = out-of-plane deformation
C-B, C-G = beam or gusset center; BF = bottom flange
BS, CS, TS = bottom, center or top stiffener corner
BG = bottom gusset plate region
E = east side; W = west side; 1F, 2F = first or second story
(wire pot target locations are shown in the figure)



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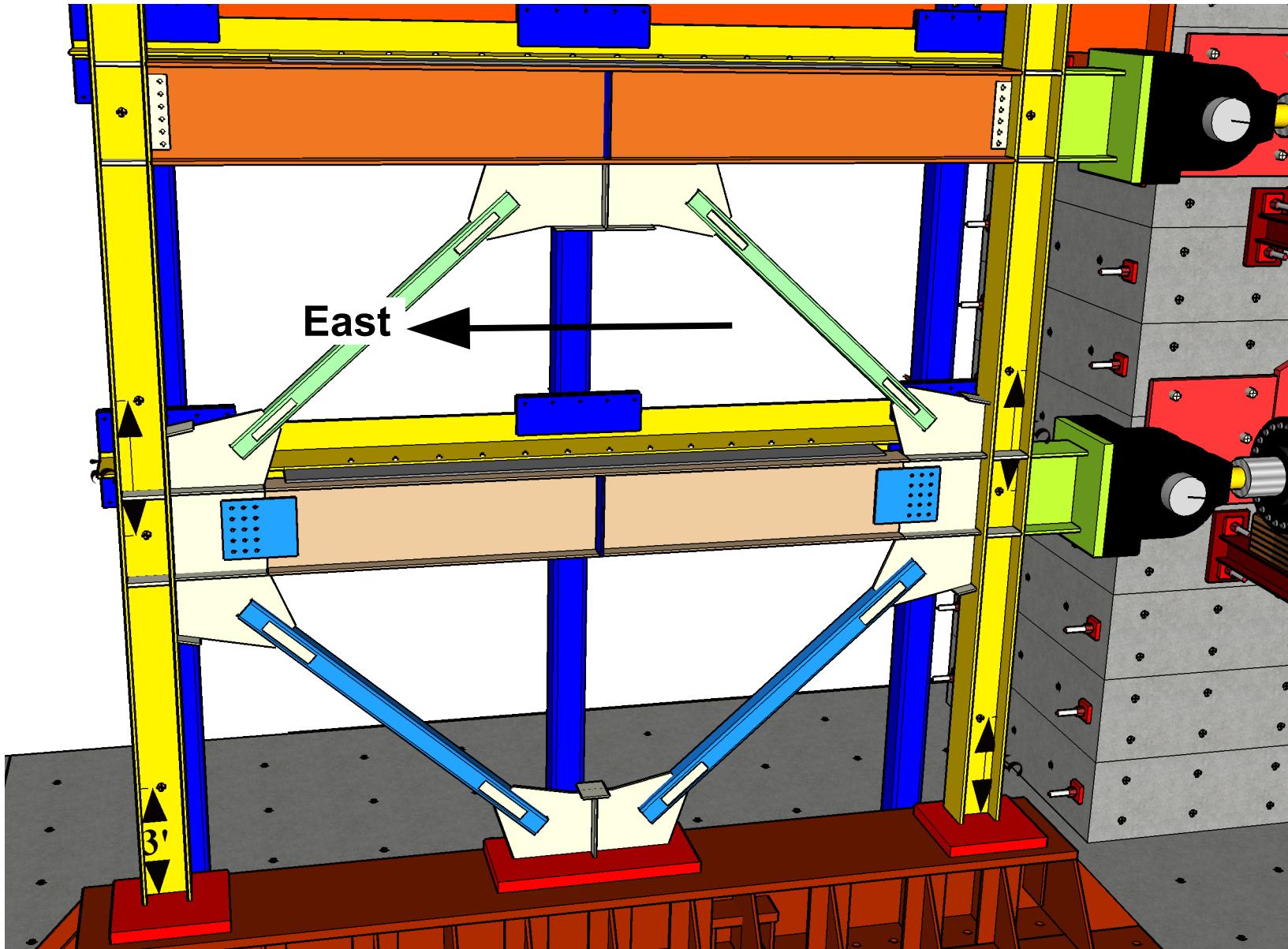
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Sensor Locations



Overview of eight rosette locations on the specimen (only the column and panel zone regions). Details and label keys are shown in the next page.

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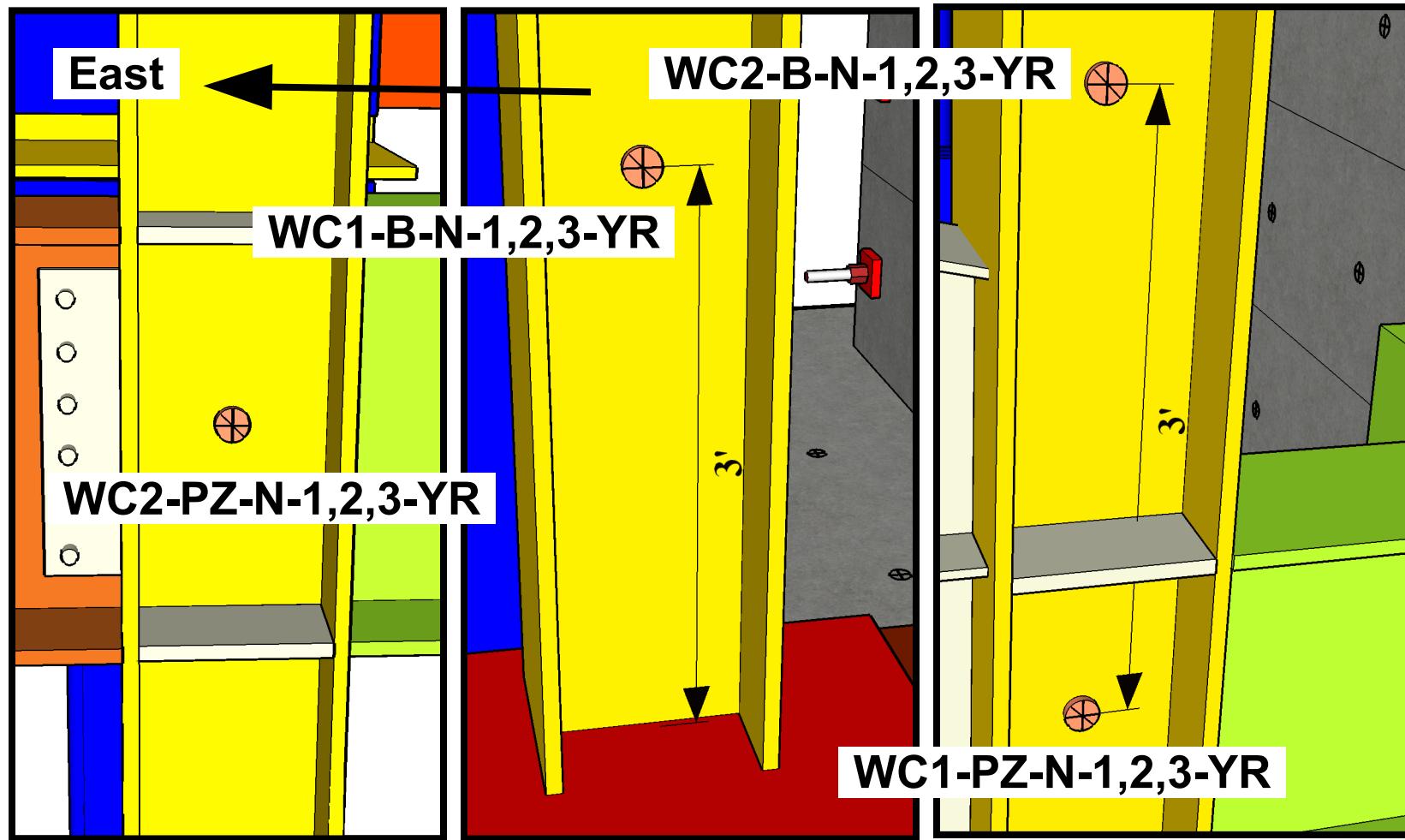
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Sensor
Locations



WC1-B-N-1,2,3-YR

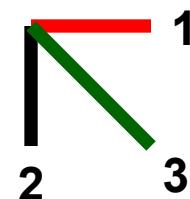
YR = rosette with larger measurement range

1 = 0 degree; 2 = 90 degree; 3 = 135 degree

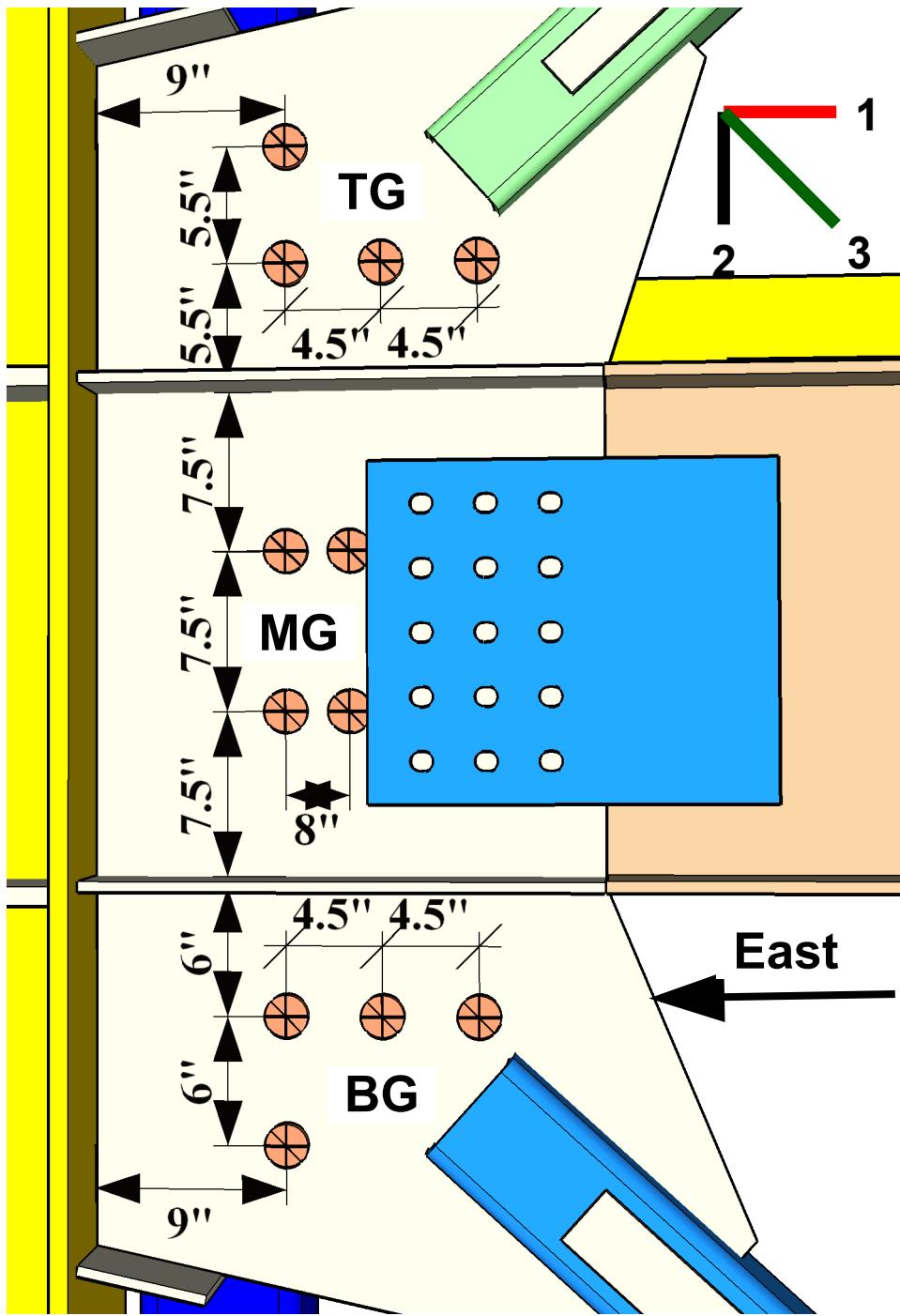
N = glued at north side

B = bottom side of column; PZ = panel zone center

WC = west column; EC = east column; 1 = 1F; 2 = 2F



(rosette locations on the west column are shown in the figure,
align with the column centerline, east column similar)



1F-E-TG-TL-1,2,3-N-YR

1F-E = east gusset plate

TG = top region

MG = middle region

BG = bottom region

TL = top left side

BL = bottom left side

TR = top right side

BR = bottom right side

TC = top center

BC = bottom center

1 = 0 degree (direction)

2 = 90 degree

3 = 135 degree

N = glued at north side

YR = rosette with larger measurement range

(twelve rosette locations
for the one-piece gusset
plate, label keys are
shown above)



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Locations

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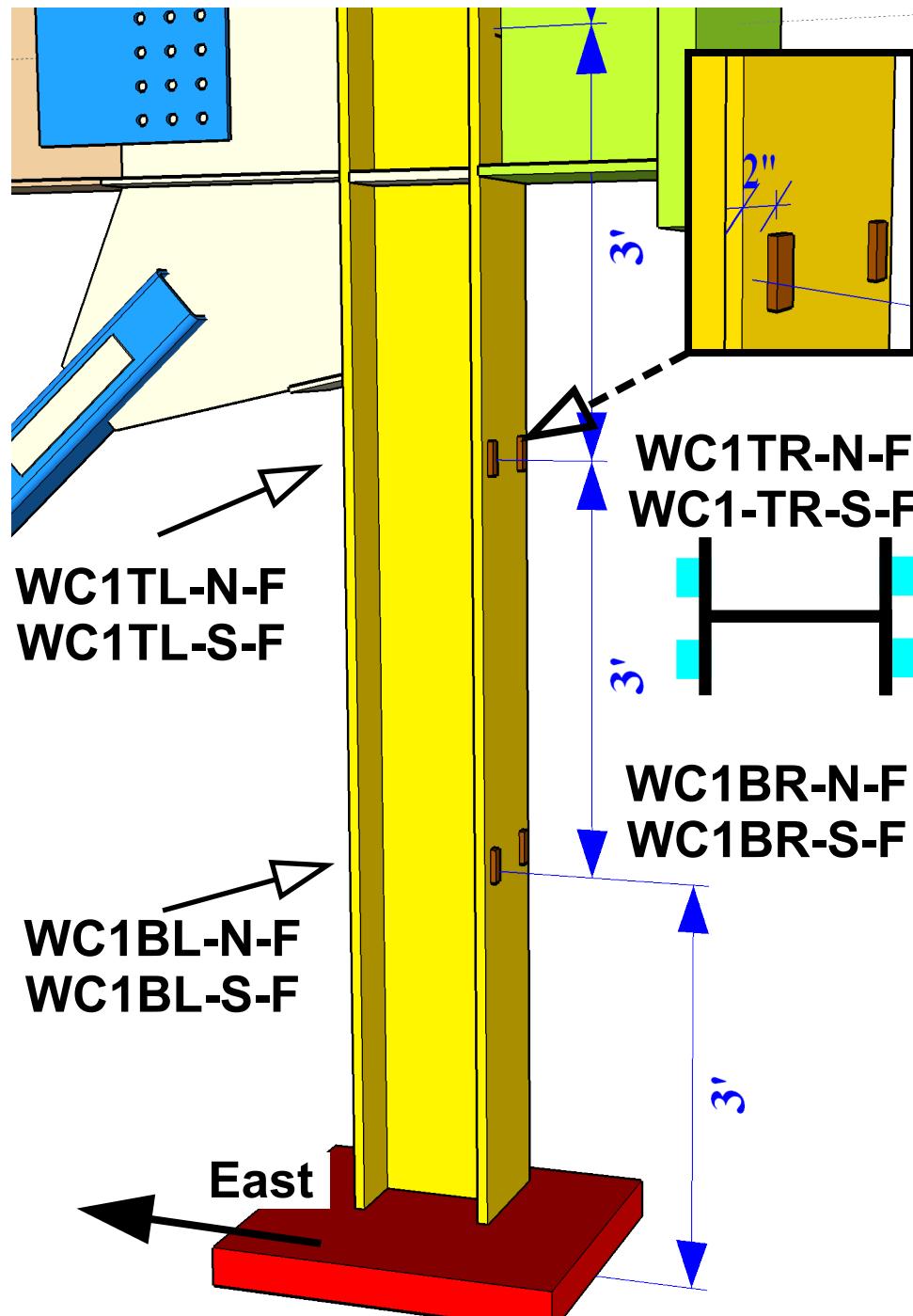
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Sensor
Locations

S.17



WC1TR-N-F ...
EC1BL-S-F ...

WC = west column

EC = east column

TL = top left side

BL = bottom left side

TR = top right side

BR = bottom right side

1 = first story

2 = second story

N = north side

S = south side

F = FLA strain gauge

(total 32 strain gauge
locations for two
columns, label keys are
shown above, align with
the column flange
centerline; east column
similar)



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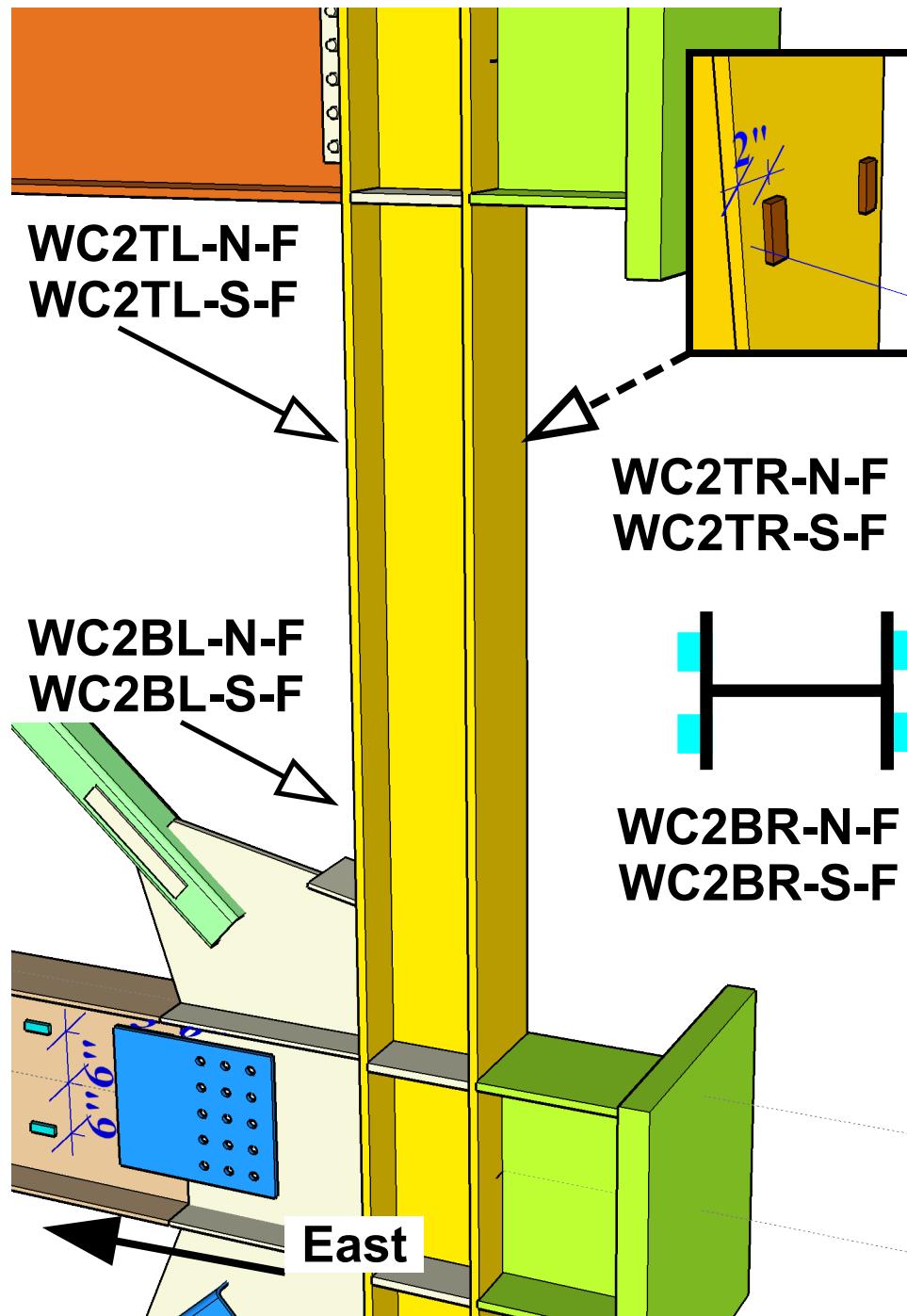
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Sensor
Locations

S.18



**WC2TR-N-F ...
EC2BL-S-F ...**

WC = west column

EC = east column

TL = top left side

BL = bottom left side

TR = top right side

BR = bottom right side

1 = first story

2 = second story

N = north side

S = south side

F = FLA strain gauge

**(total 32 strain gauge
locations for two
columns, label keys are
shown above, align with
the column flange
centerline; east column
similar)**



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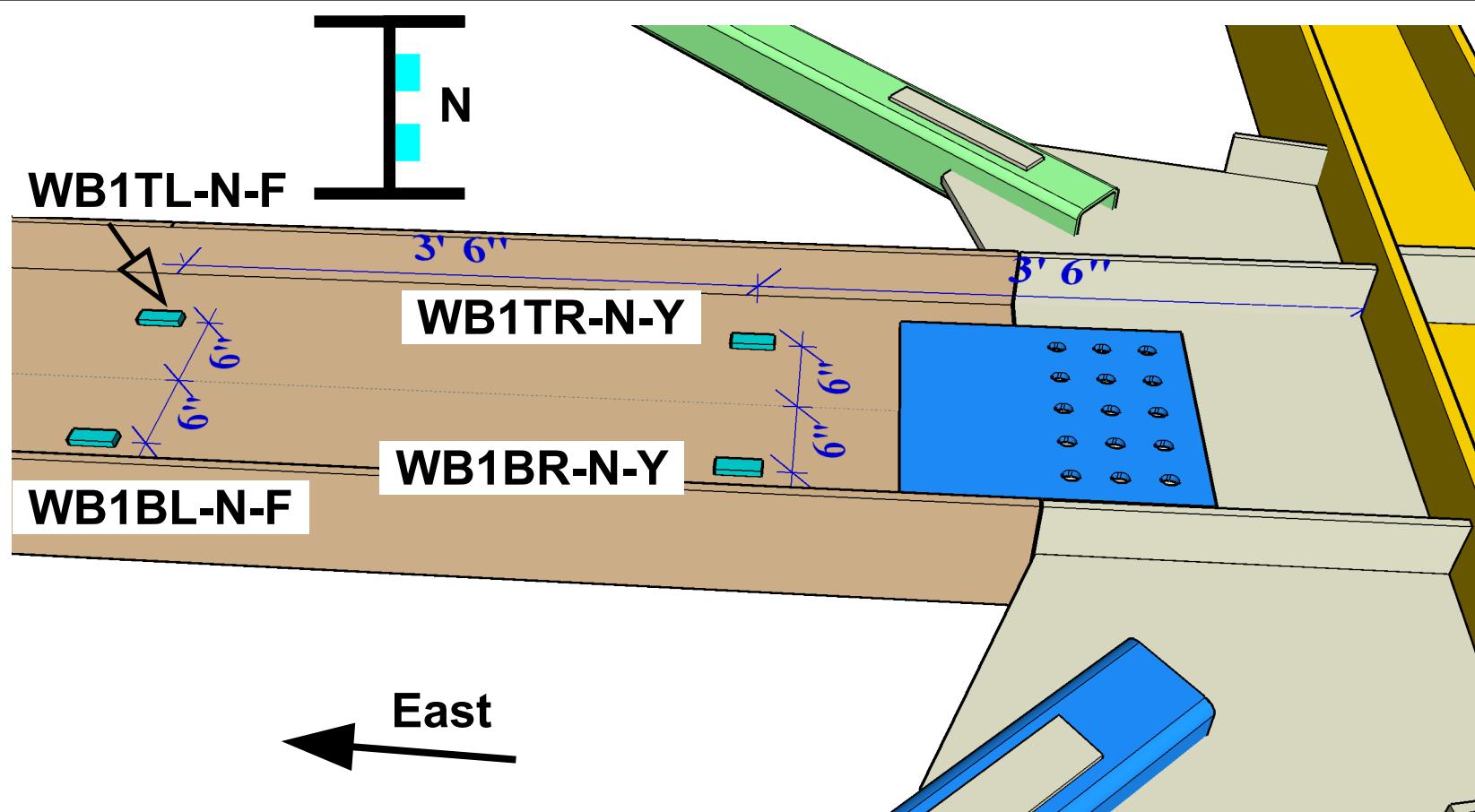
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WB1TR-N-Y ...

WB1 = west lower beam; EB1 = east lower beam

TL = top left side; BL = bottom left side

TR = top right side; BR = bottom right side

N = north side

F = FLA strain gauge; Y = YFLA strain gauge

(total eight strain gauge locations for the lower beam, label keys are shown above; east side similar and symmetric)

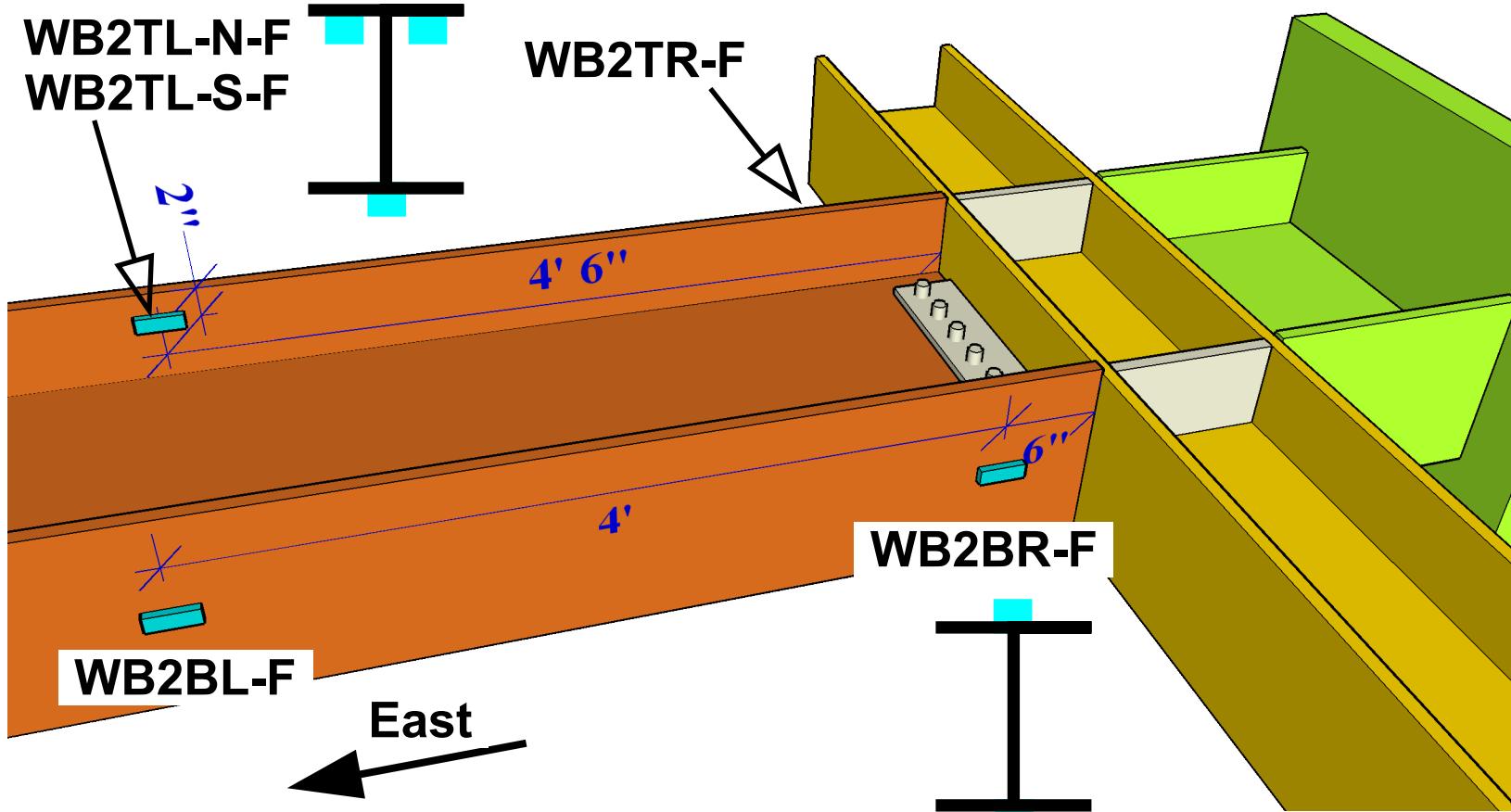


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Sensor
Locations



WB2TR-F ...

WB2 = west roof beam; EB1 = east roof beam

TL = top left side; BL = bottom left side

TR = top right side; BR = bottom right side

N = north side; S = south side

F = FLA strain gauge

**(total ten strain gauge locations for the roof beam, label keys
are shown above; east side similar and symmetric)**

S.20



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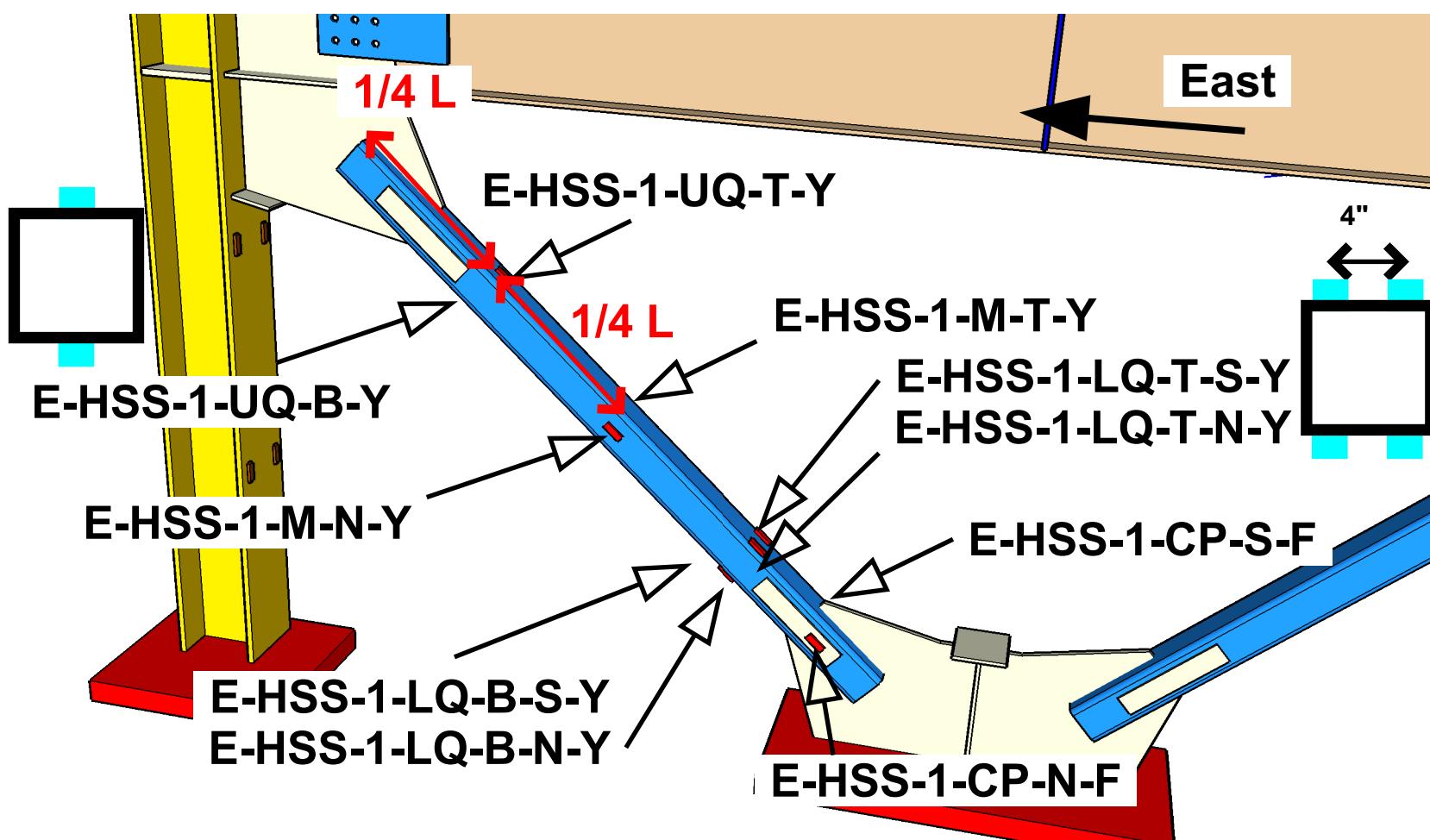
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S.21



E-HSS = east HSS brace; **W-HSS** = west HSS brace; **1** = 1F
UQ = upper quarter point; **LQ** = lower quarter point; **M** = middle
T = top side; **B** = bottom side; **CP** = cover plate
N = north side; **S** = south side; **L** = length of HSS brace
F = FLA strain gauge; **Y** = YFLA strain gauge
(total ten strain gauge locations for each brace, label keys are shown above; west side similar and symmetric)



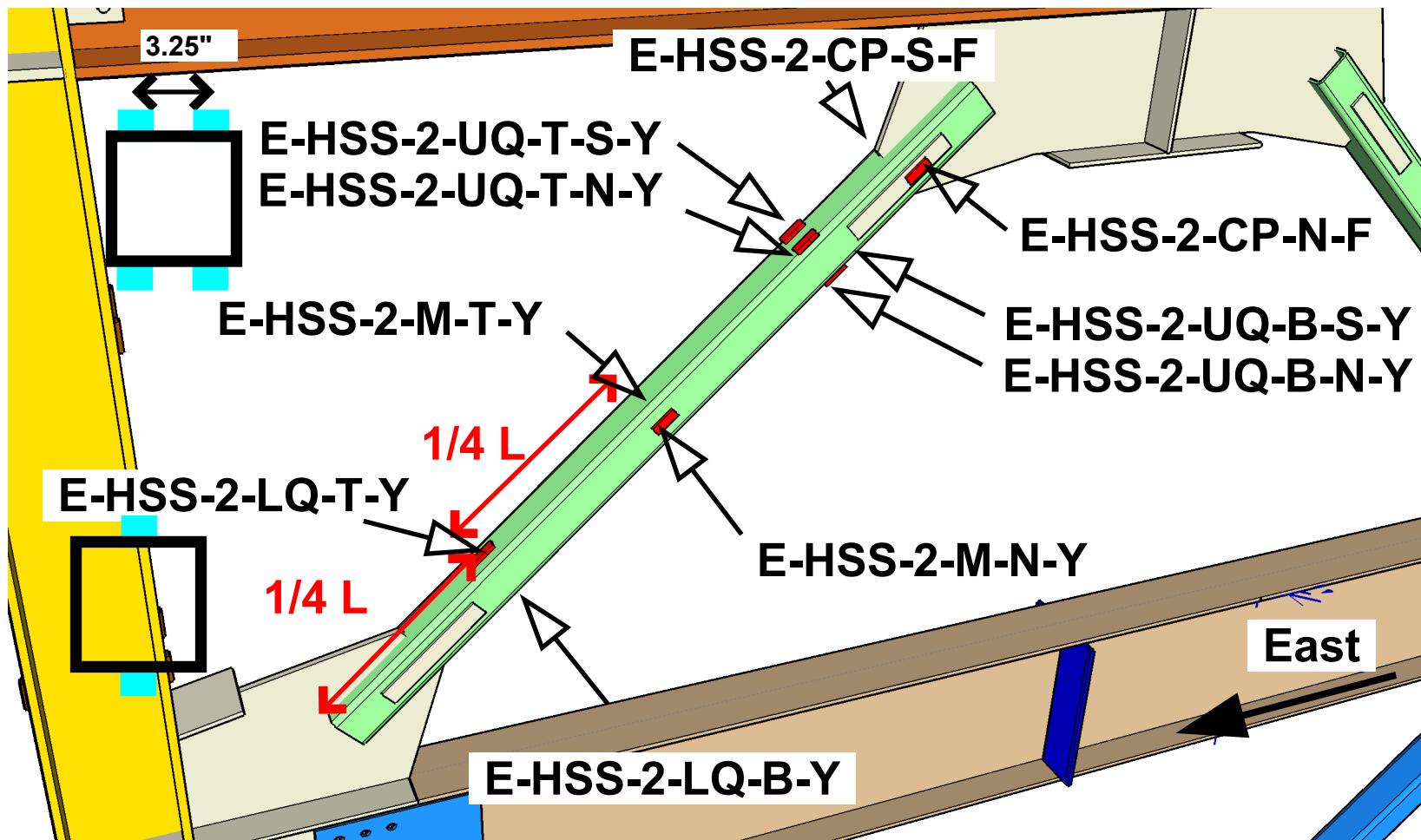
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E-HSS = east HSS brace; **W-HSS** = west HSS brace; **2** = 2F
UQ = upper quarter point; **LQ** = lower quarter point; **M** = middle
T = top side; **B** = bottom side; **CP** = cover plate
N = north side; **S** = south side; **L** = length of HSS brace
F = FLA strain gauge; **Y** = YFLA strain gauge
(total ten strain gauge locations for each brace, label keys are shown above; west side similar and symmetric)



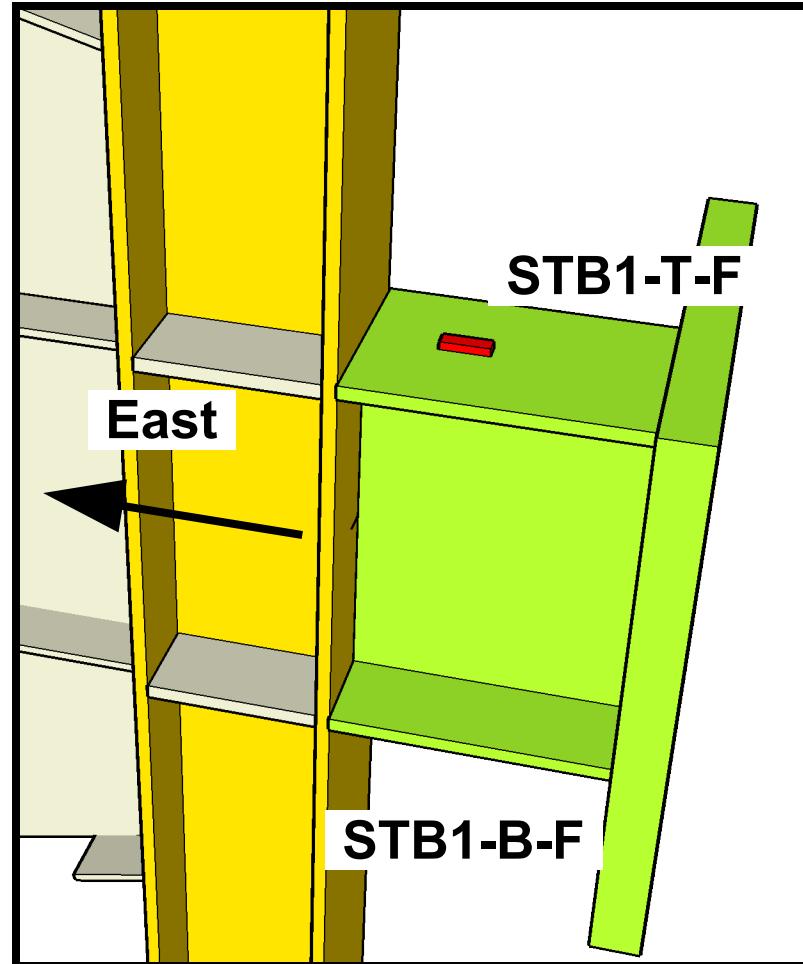
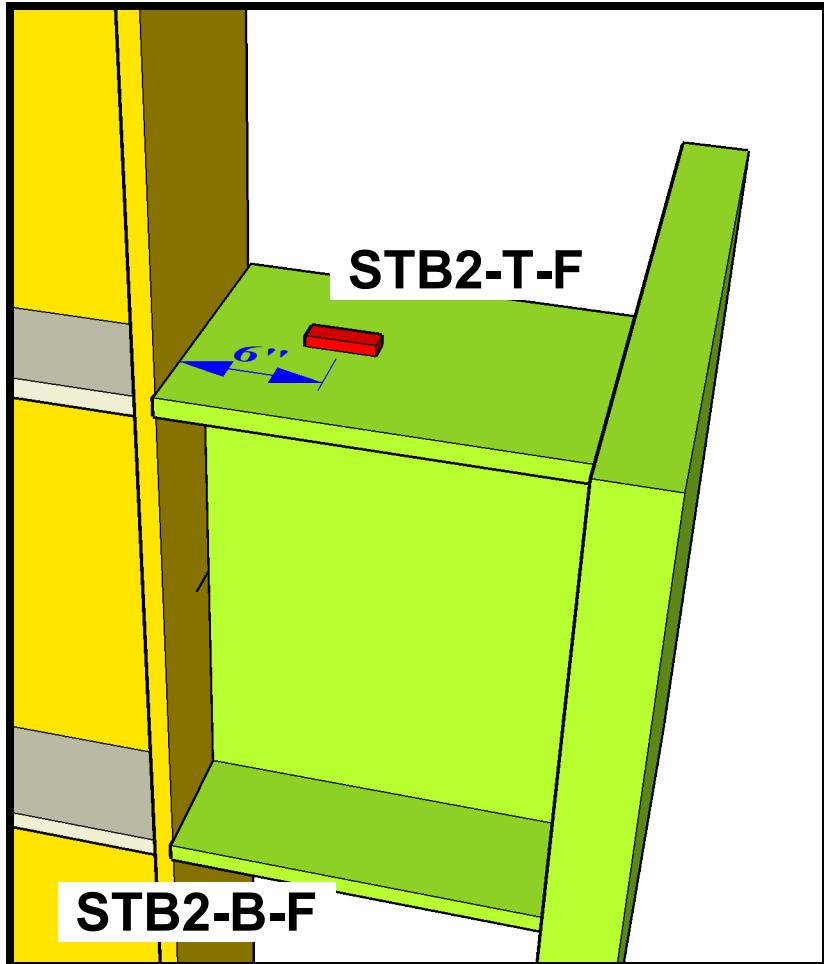
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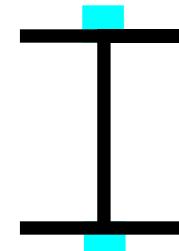


STB = stub beam

1, 2 = first story or second story

T = top flange side; **B** = bottom flange side

F = FLA strain gauge



(two strain gauge locations for each stub beam at each floor level, align with flange centerline, label keys are shown above)



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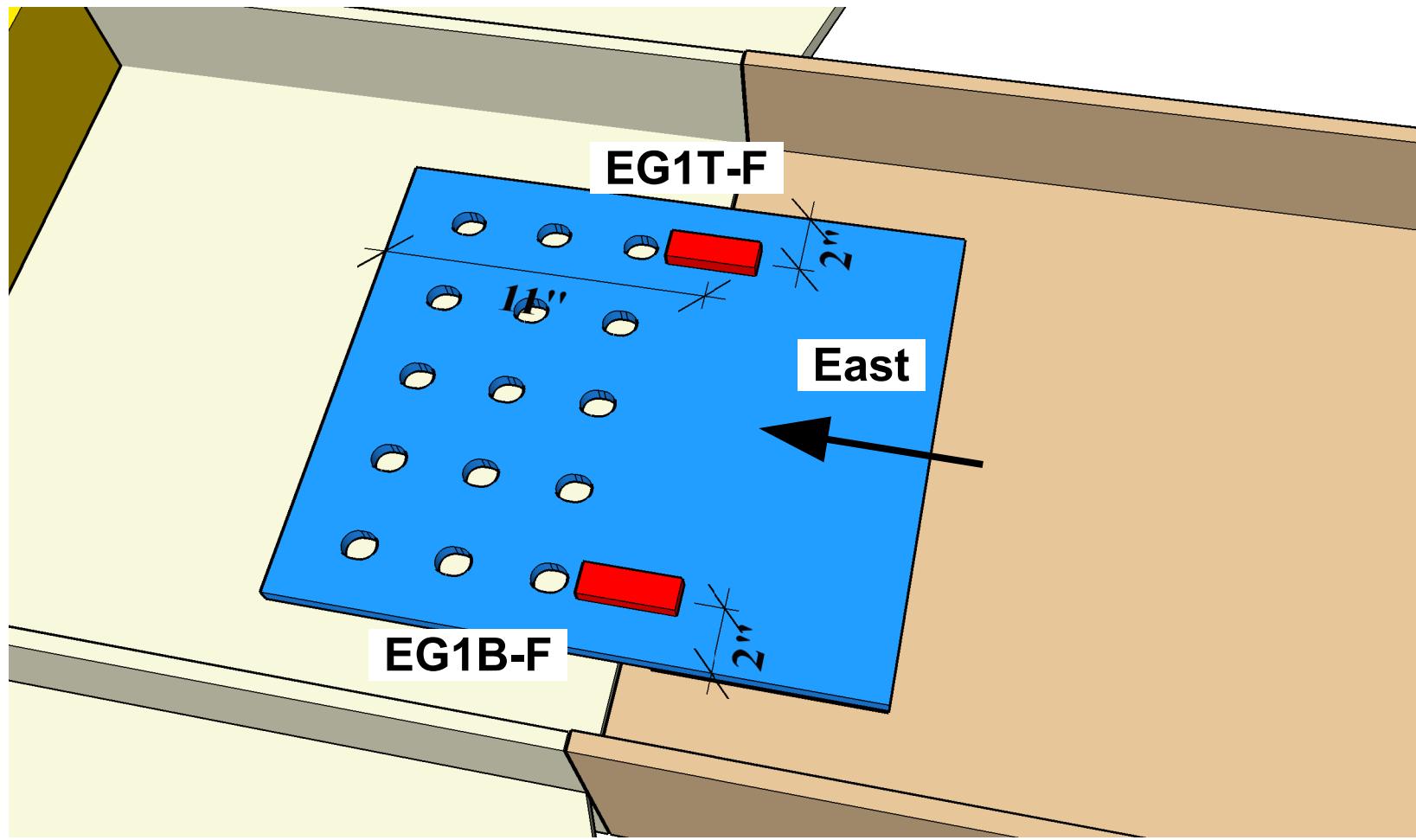
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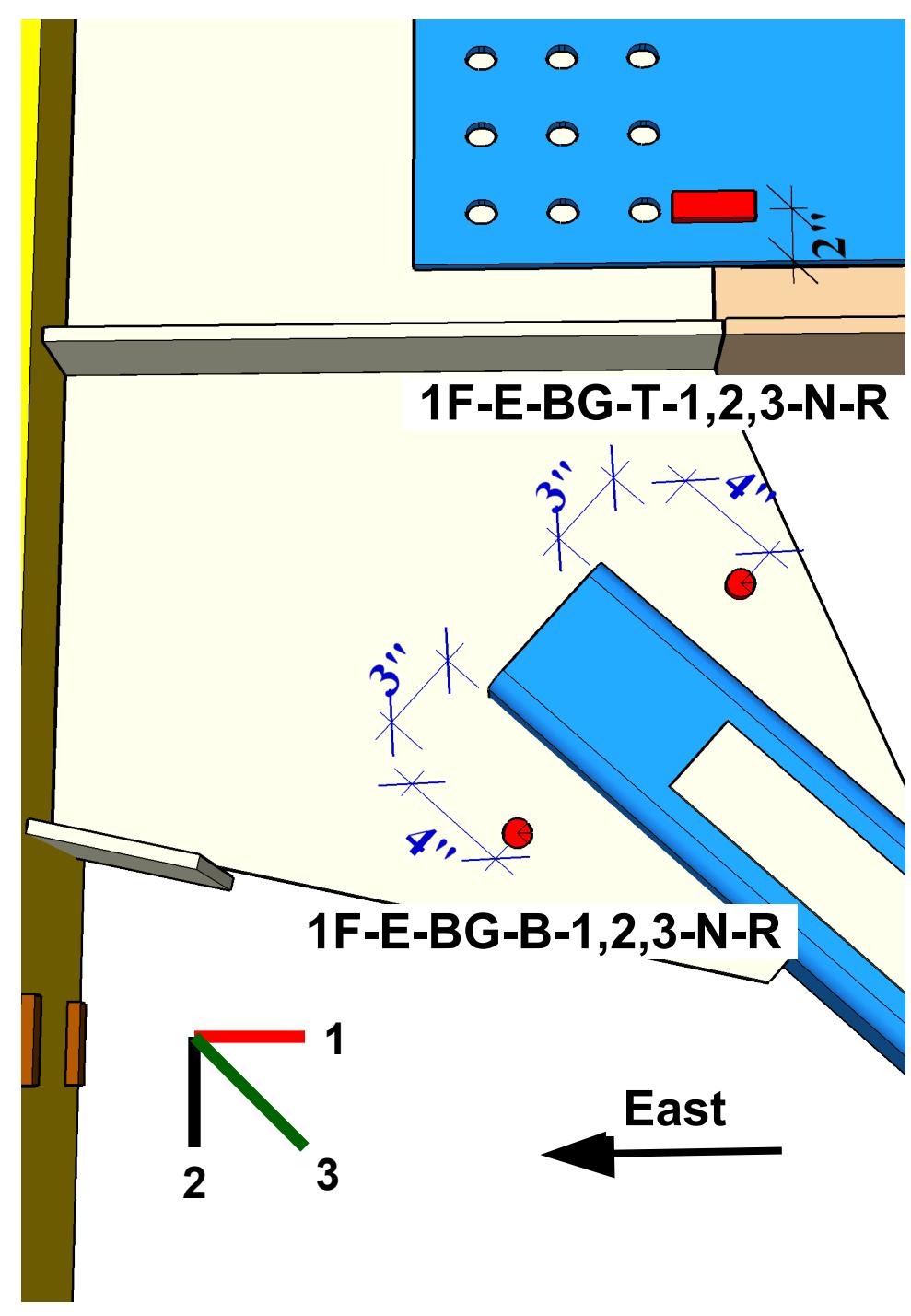
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Locations

S.24



EG1, WG1 = east or west side gusset splice
T= top side; B = bottom side
F = FLA strain gauge

**(two strain gauge locations for each end of lower beam to
gusset plate splice, align with the edge of lower beam, label
keys are shown above, west end similar)**



1F-E-BG-T-1,2,3-N-R

1F-E = east gusset plate

BG = bottom region

T = top side

B = bottom side

1 = 0 degree (direction)

2 = 90 degree

3 = 135 degree

N = glued at north side

R = rosette with normal measurement range

**(two rosette locations
for this region, label
keys are shown above)**



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Sensor
Locations

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Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
1	ST12	FB-Slip	stick	2"	2004NC01023	308	0:3:0	Novo 50 (recalibrated)	14
2	ST13	RRW-Slip-N	stick	2"	2009NC01016	309	0:3:1	Novo 50 (recalibrated)	15
3	ST14	RRW-Slip-S	stick	2"	2009NC01020	306	0:3:2	Novo 50 (recalibrated)	16
4	ST15	Act1-BK	stick	2"	2009NC01011	361	0:3:3	Novo 50 (recalibrated)	17
5	S5	E-HSS-1-UQ-T-F	strain gauge	-	-	5	0:1:0	1/4-Bridge	6
6	S6	E-HSS-1-UQ-B-F	strain gauge	-	-	6	0:1:1	1/4-Bridge	7
7	S7	E-HSS-1-M-N-Y	strain gauge	-	-	7	0:1:2	1/4-Bridge	8
8	S8	E-HSS-1-M-T-Y	strain gauge	-	-	8	0:1:3	1/4-Bridge	9
9	S9	E-HSS-1-LQ-T-N-F	strain gauge	-	-	9	0:2:0	1/4-Bridge	10
10	S10	E-HSS-1-LQ-T-S-F	strain gauge	-	-	10	0:2:1	1/4-Bridge	11
11	S11	E-HSS-1-LQ-B-N-F	strain gauge	-	-	11	0:2:2	1/4-Bridge	12
12	S12	E-HSS-1-LQ-B-S-F	strain gauge	-	-	12	0:2:3	1/4-Bridge	13
13	S13	E-HSS-1-CP-N-F	strain gauge	-	-	3	0:0:2	1/4-Bridge	4
14	S14	E-HSS-1-CP-S-F	strain gauge	-	-	4	0:0:3	1/4-Bridge	5
15	S15	EB1BL-N-Y	strain gauge	-	-	381	0:11:0	1/4-Bridge	46
16	S16	EB1TL-N-Y	strain gauge	-	-	380	0:10:3	1/4-Bridge	45
17	S17	EB1BR-N-F	strain gauge	-	-	204/70	1:1:1	1/4-Bridge	71
18	S18	EG1B-F	strain gauge	-	-	382	0:11:1	1/4-Bridge	47
19	S19	WB1BL-N-F	strain gauge	-	-	342/68	1:0:3	1/4-Bridge	69
20	S20	WG1B-F	strain gauge	-	-	322/69	1:1:0	1/4-Bridge	70
21	S21	WB1BR-N-Y	strain gauge	-	-	338/84	1:4:3	1/4-Bridge	85
22	S22	WB1TR-N-Y	strain gauge	-	-	325/57	0:14:0	1/4-Bridge	58
23	S23	W-HSS-1-CP-N-F	strain gauge	-	-	1	0:0:0	1/4-Bridge	2
24	S24	W-HSS-1-CP-S-F	strain gauge	-	-	2	0:0:1	1/4-Bridge	3
25	S25	W-HSS-1-LQ-T-N-F	strain gauge	-	-	25	0:6:0	1/4-Bridge	26
26	S26	W-HSS-1-LQ-T-S-F	strain gauge	-	-	26	0:6:1	1/4-Bridge	27
27	S27	W-HSS-1-LQ-B-N-F	strain gauge	-	-	27	0:6:2	1/4-Bridge	28
28	S28	W-HSS-1-LQ-B-S-F	strain gauge	-	-	28	0:6:3	1/4-Bridge	29
29	S29	W-HSS-1-M-N-Y	strain gauge	-	-	29	0:7:0	1/4-Bridge	30
30	S30	W-HSS-1-M-T-Y	strain gauge	-	-	30	0:7:1	1/4-Bridge	31
31	S31	W-HSS-1-UQ-T-F	strain gauge	-	-	31	0:7:2	Micro-Measurement	32
32	S32	W-HSS-1-UQ-B-F	strain gauge	-	-	32	0:7:3	Micro-Measurement	33
33	S33	WC1TL-S-F	strain gauge	-	-	95	1:7:2	1/4-Bridge	96
34	S34	WC1TR-S-F	strain gauge	-	-	93	1:7:0	1/4-Bridge	94
35	S35	WC1TL-N-F	strain gauge	-	-	94	1:7:1	1/4-Bridge	95
36	S36	WC1TR-N-F	strain gauge	-	-	92	1:6:3	1/4-Bridge	93

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
37	S37	EC2BL-S-F	strain gauge	-	-	390	0:9:2	1/4-Bridge	40
38	S38	EC2BR-S-F	strain gauge	-	-	391	0:9:3	1/4-Bridge	41
39	S39	EC2BL-N-F	strain gauge	-	-	376	0:10:0	1/4-Bridge	42
40	S40	EC2BR-N-F	strain gauge	-	-	377	0:10:1	1/4-Bridge	43
41	S41	EB2BL-F	strain gauge	-	-	378	0:10:2	1/4-Bridge	44
42	S42	EB2TL-F	strain gauge	-	-	200/348	2:4:3	1/4-Bridge	149
43	S43	EB2BR-F	strain gauge	-	-	197/145	2:4:0	1/4-Bridge	146
44	S44	EB2TR-S-F	strain gauge	-	-	199/147	2:4:2	1/4-Bridge	148
45	S45	E-HSS-2-LQ-T-F	strain gauge	-	-	48	0:11:3	1/4-Bridge	49
46	S46	E-HSS-2-LQ-B-F	strain gauge	-	-	392	0:12:0	1/4-Bridge	50
47	S47	E-HSS-2-M-N-Y	strain gauge	-	-	362	0:12:1	1/4-Bridge	51
48	S48	EB1TR-N-F	strain gauge	-	-	365	0:12:2	1/4-Bridge	52
49	S49	E-HSS-2-UQ-T-N-F	strain gauge	-	-	366	0:12:3	1/4-Bridge	53
50	S50	E-HSS-2-UQ-T-S-F	strain gauge	-	-	367	0:13:0	1/4-Bridge	54
51	S51	E-HSS-2-UQ-B-N-F	strain gauge	-	-	368	0:13:1	1/4-Bridge	55
52	S52	E-HSS-2-UQ-B-S-F	strain gauge	-	-	369	0:13:2	1/4-Bridge	56
53	S53	E-HSS-2-CP-N-F	strain gauge	-	-	370	0:13:3	1/4-Bridge	57
54	S54	E-HSS-2-CP-S-F	strain gauge	-	-	383	0:11:2	1/4-Bridge	48
55	S55	W-HSS-2-CP-N-F	strain gauge	-	-	324/58	0:14:1	1/4-Bridge	59
56	S56	W-HSS-2-CP-S-F	strain gauge	-	-	326/59	0:14:2	1/4-Bridge	60
57	S57	W-HSS-2-UQ-T-N-F	strain gauge	-	-	333/60	0:14:3	1/4-Bridge	61
58	S58	W-HSS-2-UQ-T-S-F	strain gauge	-	-	327/61	0:15:0	1/4-Bridge	62
59	S59	W-HSS-2-UQ-B-N-F	strain gauge	-	-	320/62	0:15:1	1/4-Bridge	63
60	S60	W-HSS-2-UQ-B-S-F	strain gauge	-	-	321/63	0:15:2	1/4-Bridge	64
61	S61	W-HSS-2-M-N-Y	strain gauge	-	-	322/64	0:15:3	1/4-Bridge	65
62	S62	WB1TL-N-F	strain gauge	-	-	203/65	1:0:0	1/4-Bridge	66
63	S63	W-HSS-2-LQ-T-F	strain gauge	-	-	315/66	1:0:1	1/4-Bridge	67
64	S64	W-HSS-2-LQ-B-F	strain gauge	-	-	343/67	1:0:2	1/4-Bridge	68
65	S65	WB2BL-F	strain gauge	-	-	346/137	2:2:0	1/4-Bridge	138
66	S66	WB2TL-S-F	strain gauge	-	-	328/138	2:2:1	1/4-Bridge	139
67	S67	WB2BR-F	strain gauge	-	-	201/71	1:1:2	1/4-Bridge	72
68	S68	WB2TR-F	strain gauge	-	-	345/140	2:2:3	1/4-Bridge	141
69	S69	WC2BL-N-F	strain gauge	-	-	316/73	1:2:0	1/4-Bridge	74
70	S70	WC2BR-N-F	strain gauge	-	-	349/74	1:2:1	1/4-Bridge	75
71	S71	WC2BL-S-F	strain gauge	-	-	351/75	1:2:2	1/4-Bridge	76
72	S72	WC2BR-S-F	strain gauge	-	-	318/76	1:2:3	1/4-Bridge	77

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
73	ST16	Act2-BK	stick	2"	2009NC01019	355	0:4:0	Novo 50 (recalibrated)	18
74	ST1	E-CB-Slip	stick	1"	2004NC01014	379	0:4:1	Novo 25 (recalibrated)	19
75	S73	STB2-T-F	strain gauge	-	-	396	0:4:2	1/4-Bridge	20
76	R2-1	EC1-PZ-N-1-YR	rosette	-	-	384	0:8:0	1/4-Bridge	34
77	R2-2	EC1-PZ-N-2-YR	rosette	-	-	385	0:8:1	1/4-Bridge	35
78	R2-3	EC1-PZ-N-3-YR	rosette	-	-	386	0:8:2	1/4-Bridge	36
79	R3-1	EC2-B-N-1-YR	rosette	-	-	387	0:8:3	1/4-Bridge	37
80	R3-2	EC2-B-N-2-YR	rosette	-	-	388	0:9:0	1/4-Bridge	38
81	R3-3	EC2-B-N-3-YR	rosette	-	-	389	0:9:1	1/4-Bridge	39
82	R4-1	EC2-PZ-N-1-YR	rosette	-	-	196/149	2:5:0	1/4-Bridge	150
83	R4-2	EC2-PZ-N-2-YR	rosette	-	-	198/150	2:5:1	1/4-Bridge	151
84	R4-3	EC2-PZ-N-3-YR	rosette	-	-	195/151	2:5:2	1/4-Bridge	152
85	R5-1	WC1-B-N-1-YR	rosette	-	-	89	1:6:0	1/4-Bridge	90
86	R5-2	WC1-B-N-2-YR	rosette	-	-	90	1:6:1	1/4-Bridge	91
87	R5-3	WC1-B-N-3-YR	rosette	-	-	91	1:6:2	1/4-Bridge	92
88	R6-1	WC1-PZ-N-1-YR	rosette	-	-	317/77	1:3:0	1/4-Bridge	78
89	R6-2	WC1-PZ-N-2-YR	rosette	-	-	350/78	1:3:1	1/4-Bridge	79
90	R6-3	WC1-PZ-N-3-YR	rosette	-	-	302/79	1:3:2	1/4-Bridge	80
91	R7-1	WC2-B-N-1-YR	rosette	-	-	301/80	1:3:3	1/4-Bridge	81
92	R7-2	WC2-B-N-2-YR	rosette	-	-	323/81	1:4:0	1/4-Bridge	82
93	R7-3	WC2-B-N-3-YR	rosette	-	-	336/82	1:4:1	1/4-Bridge	83
94	R8-1	WC2-PZ-N-1-YR	rosette	-	-	352/141	2:3:0	1/4-Bridge	142
95	R8-2	WC2-PZ-N-2-YR	rosette	-	-	319/142	2:3:1	1/4-Bridge	143
96	R8-3	WC2-PZ-N-3-YR	rosette	-	-	329/143	2:3:2	1/4-Bridge	144
97	R9-1	1F-E-BG-TL-1-N-YR	rosette	-	-	101	1:9:0	1/4-Bridge	102
98	R9-2	1F-E-BG-TL-2-N-YR	rosette	-	-	102	1:9:1	1/4-Bridge	103
99	R9-3	1F-E-BG-TL-3-N-YR	rosette	-	-	103	1:9:2	1/4-Bridge	104
100	R10-1	1F-E-BG-BL-1-N-YR	rosette	-	-	104	1:9:3	1/4-Bridge	105
101	R10-2	1F-E-BG-BL-2-N-YR	rosette	-	-	105	1:10:0	1/4-Bridge	106
102	R10-3	1F-E-BG-BL-3-N-YR	rosette	-	-	106	1:10:1	1/4-Bridge	107
103	R11-1	1F-E-BG-TR-1-N-YR	rosette	-	-	107	1:10:2	1/4-Bridge	108
104	R11-2	1F-E-BG-TR-2-N-YR	rosette	-	-	108	1:10:3	1/4-Bridge	109
105	R11-3	1F-E-BG-TR-3-N-YR	rosette	-	-	109	1:11:0	1/4-Bridge	110
106	R12-1	1F-E-BG-TC-1-N-YR	rosette	-	-	110	1:11:1	1/4-Bridge	111
107	R12-2	1F-E-BG-TC-2-N-YR	rosette	-	-	111	1:11:2	1/4-Bridge	112
108	R12-3	1F-E-BG-TC-3-N-YR	rosette	-	-	112	1:11:3	1/4-Bridge	113

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
109	R13-1	1F-E-MG-TL-1-N-YR	rosette	-	-	113	1:12:0	1/4-Bridge	114
110	R13-2	1F-E-MG-TL-2-N-YR	rosette	-	-	114	1:12:1	1/4-Bridge	115
111	R13-3	1F-E-MG-TL-3-N-YR	rosette	-	-	115	1:12:2	1/4-Bridge	116
112	R14-1	1F-E-MG-BL-1-N-YR	rosette	-	-	116	1:12:3	1/4-Bridge	117
113	R14-2	1F-E-MG-BL-2-N-YR	rosette	-	-	117	1:13:0	1/4-Bridge	118
114	R14-3	1F-E-MG-BL-3-N-YR	rosette	-	-	118	1:13:1	1/4-Bridge	119
115	R15-1	1F-E-MG-TR-1-N-YR	rosette	-	-	119	1:13:2	1/4-Bridge	120
116	R15-2	1F-E-MG-TR-2-N-YR	rosette	-	-	120	1:13:3	1/4-Bridge	121
117	R15-3	1F-E-MG-TR-3-N-YR	rosette	-	-	121	1:14:0	1/4-Bridge	122
118	R16-1	1F-E-MG-BR-1-N-YR	rosette	-	-	122	1:14:1	1/4-Bridge	123
119	R16-2	1F-E-MG-BR-2-N-YR	rosette	-	-	123	1:14:2	1/4-Bridge	124
120	R16-3	1F-E-MG-BR-3-N-YR	rosette	-	-	124	1:14:3	1/4-Bridge	125
121	R17-1	1F-E-TG-TL-1-N-YR	rosette	-	-	125	1:15:0	1/4-Bridge	126
122	R17-2	1F-E-TG-TL-2-N-YR	rosette	-	-	126	1:15:1	1/4-Bridge	127
123	R17-3	1F-E-TG-TL-3-N-YR	rosette	-	-	127	1:15:2	1/4-Bridge	128
124	R18-1	1F-E-TG-BL-1-N-YR	rosette	-	-	128	1:15:3	1/4-Bridge	129
125	R18-2	1F-E-TG-BL-2-N-YR	rosette	-	-	129	2:0:0	1/4-Bridge	130
126	R18-3	1F-E-TG-BL-3-N-YR	rosette	-	-	130	2:0:1	1/4-Bridge	131
127	R19-1	1F-E-TG-BC-1-N-YR	rosette	-	-	131	2:0:2	1/4-Bridge	132
128	R19-2	1F-E-TG-BC-2-N-YR	rosette	-	-	303	2:0:3	1/4-Bridge	133
129	R19-3	1F-E-TG-BC-3-N-YR	rosette	-	-	133	2:1:0	1/4-Bridge	134
130	R20-1	1F-E-TG-BR-1-N-YR	rosette	-	-	134	2:1:1	1/4-Bridge	135
131	R20-2	1F-E-TG-BR-2-N-YR	rosette	-	-	135	2:1:2	1/4-Bridge	136
132	R20-3	1F-E-TG-BR-3-N-YR	rosette	-	-	136	2:1:3	1/4-Bridge	137
133	WP07	1F-E-HSS-UQ-R-OD	wire pot	30"	2000NC51151	159	2:7:2	-	160
134	WP04	1F-E-HSS-M-R-OD	wire pot	40"	2005NC51006	156	2:6:3	-	157
135	WP02	1F-E-HSS-LQ-R-OD	wire pot	30"	2006NC51015	154	2:6:1	-	155
136	WP03	1F-E-HSS-UQ-L-OD	wire pot	30"	2006NC51012	155	2:6:2	-	156
137	WP05	1F-E-HSS-M-L-OD	wire pot	40"	2005NC01003	157	2:7:0	-	158
138	WP01	1F-E-HSS-LQ-L-OD	wire pot	30"	2006NC51014	153	2:6:0	-	154
139	WP06	1F-W-HSS-LQ-R-OD	wire pot	30"	2000NC51124	158	2:7:1	-	159
140	WP12	1F-W-HSS-M-R-OD	wire pot	40"	2005NC01008	164	2:8:3	-	165
141	WP09	1F-W-HSS-UQ-R-OD	wire pot	30"	2000NC51106	161	2:8:0	-	162
142	WP08	1F-W-HSS-LQ-L-OD	wire pot	30"	2006NC51016	160	2:7:3	-	161
143	WP11	1F-W-HSS-M-L-OD	wire pot	40"	2005NC01006	163	2:8:2	-	164
144	WP10	1F-W-HSS-UQ-L-OD	wire pot	40"	2005NC51005	162	2:8:1	(recalibrated)	163

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
145	WP14	2F-E-HSS-LQ-R-OD	wire pot	30"	2006NC51013	166/305	2:9:1	-	167
146	WP17	2F-E-HSS-M-R-OD	wire pot	40"	2005NC51002	169/308	2:10:0	-	170
147	WP13	2F-E-HSS-UQ-R-OD	wire pot	40"	2009NC01052	342	2:9:0	165/304 old cables N.G.	166
148	WP16	2F-E-HSS-LQ-L-OD	wire pot	30"	2000NC51125	168/307	2:9:3	-	169
149	WP18	2F-E-HSS-M-L-OD	wire pot	40"	2005NC51007	170/309	2:10:1	-	171
150	WP15	2F-E-HSS-UQ-L-OD	wire pot	30"	2000NC51105	167/306	2:9:2	-	168
151	WP22	2F-W-HSS-UQ-R-OD	wire pot	40"	2005NC01010	174/313	2:11:1	-	175
152	WP20	2F-W-HSS-M-R-OD	wire pot	40"	2005NC01009	172/311	2:10:3	-	173
153	WP24	2F-W-HSS-LQ-R-OD	wire pot	30"	2000NC51153	176/315	2:11:3	-	177
154	WP21	2F-W-HSS-UQ-L-OD	wire pot	40"	2005NC51010	173/312	2:11:0	-	174
155	WP19	2F-W-HSS-M-L-OD	wire pot	40"	2005NC01007	394	2:10:2	394 (171, 310 N.G.)	172
156	WP23	2F-W-HSS-LQ-L-OD	wire pot	30"	2000NC51111	175/314	2:11:2	-	176
157	WP25	1F-E-HSS-A-N	wire pot	40"	2005NC51009	177	2:12:0	-	178
158	WP26	1F-W-HSS-A-N	wire pot	40"	2005NC01004	178	2:12:1	-	179
159	WP27	2F-E-HSS-A-N	wire pot	40"	2005NC01001	300	2:14:0	-	183
160	WP28	2F-W-HSS-A-N	wire pot	40"	2000NC51131	399	2:14:1	(checked, not recalibrated)	184
161	-	not use	-	-	-	-	2:13:0	not use	-
162	-	not use	-	-	-	-	2:13:1	not use	-
163	-	not use	-	-	-	-	2:13:3	not use	-
164	ST17	WB1-RT	stick	4"	2009NC01008	307	2:13:2	Novo100 (recalibrated)	182
165	ST18	EB1-RT	stick	4"	2009NC01009	183	1:8:0	Novo100 (recalibrated)	98
166	ST19	EB1-RB	stick	4"	2009NC01001	184	1:8:1	Novo100 (recalibrated)	99
167	ST20	RRW-T-N	stick	4"	2004NC01037	318/86	1:8:2	Novo100 (recalibrated)	100
168	ST21	RRW-T-S	stick	4"	2004NC01038	319/395	1:8:3	Novo100 (recalibrated)	101
169	WP30	1F-C-G-TS-OD	wire pot	40"	2005NC01005	21	0:5:0	-	22
170	WP47	2F-W-HSS-A-S	wire pot	30"	2000NC51150	313	1:5:3	-	89
171	WP33	1F-E-HSS-A-S	wire pot	40"	2009NC01054	24	0:5:3	(recalibrated)	25
172	WP29	1F-W-HSS-A-S	wire pot	40"	2009NC01053	20	0:4:3	(recalibrated)	21
173	WP43	1F-E-BG-B-OD	wire pot	30"	2000NC51098	320	1:4:2	-	84
174	WP31	1F-C-B-BF-OD	wire pot	30"	2000NC51128	22	0:5:1	-	23
175	WP32	1F-C-B-CS-OD	wire pot	40"	2005NC51003	23	0:5:2	(recalibrated)	24
176	WP42	1F-W-BG-B-OD	wire pot	30"	2000NC51117	314	1:1:3	-	73
177	WP46	2F-E-HSS-A-S	wire pot	30"	2000NC51152	312	1:5:2	-	88
178	WP44	2F-C-B-BF-OD	wire pot	30"	2000NC51126	310	1:5:0	-	86
179	WP45	2F-C-G-BS-OD	wire pot	30"	2000NC51129	311	1:5:1	-	87
180	ST2	C-GB-Slip	stick	1"	2009NC01028	181	2:12:2	Novo 25 (recalibrated)	180

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
181	ST3	W-CB-Slip	stick	1"	2009NC01026	96	1:7:3	Novo 25 (recalibrated)	97
182	ST4	E-LC1-OD	stick	6"	2007NC01009	179	2:15:2	-	189
183	ST5	E-LC2-OD	stick	6"	2007NC01010	302	2:14:2	-	185
184	ST6	C-LC1-OD	stick	6"	2007NC01011	180	2:15:3	-	190
185	ST7	C-LC2-OD	stick	6"	2007NC51006	303	2:14:3	-	186
186	ST8	W-LC1-OD	stick	6"	2007NC51007	304	2:15:0	-	187
187	ST9	W-LC2-OD	stick	6"	2007NC51010	305	2:15:1	-	188
188	ST10	C-B1-VD	stick	4"	2007NC01006	144	2:3:3	-	145
189	ST11	C-B2-VD	stick	4"	2007NC01003	210	2:5:3	Novo100	153
190	ST22	WB1-RB	stick	4"	2009NC01004	316	2:2:2	Novo100 (recalibrated)	140
191	PT1	EC1-PZ-E-PT	Position Transducer	20"	-	323	2:4:1	Novo500	147
192	PT2	EC2-PZ-E-PT	Position Transducer	40"	-	182/363	2:12:3	Novo1000-22	181
193	A1	Act3disp	FLEX test	-	-	-	3:0:0	MTS-STS	191
194	A2	Act3Force	Load Cell	-	-	-	3:0:1	MTS-STS	192
195	A3	Act1dispFT	Position Transducer	40"	-	-	3:0:2	MTS-STS	193
196	A4	Act2dispFT	Position Transducer	40"	-	-	3:0:3	MTS-STS	194
197	A5	Act3dispFT	Position Transducer	40"	-	-	3:0:4	MTS-STS	195
198	A6	Act4dispFT	Position Transducer	40"	-	-	3:0:5	MTS-STS	196
199	A7	Act4disp	FLEX test	-	-	-	3:0:6	MTS-STS	197
200	A8	Act4force	Load Cell	-	-	-	3:0:7	MTS-STS	198
201	TG1	TriggerCanon	TriggerCanon	-	-	207	3:1:5	D-Space	204
202	TG2	TriggerLeica	TriggerLeica	-	-	208	3:1:6	D-Space	205
203	500	IRIGday-500	-	-	-	-	3:15:0	For time sync. (BNC to STS)	207
204	501	IRIGHour-501	-	-	-	-	3:15:1	For time sync. (BNC to STS)	208
205	502	IRIGmin-502	-	-	-	-	3:15:2	For time sync. (BNC to STS)	209
206	503	IRIGsec-503	-	-	-	-	3:15:3	For time sync. (BNC to STS)	210
207	504	IRIGmsec-504	-	-	-	-	3:15:4	For time sync. (BNC to STS)	211
208	505	IRIGusec-505	-	-	-	-	3:15:5	For time sync. (BNC to STS)	212
209	506	IRIGstatus-506	-	-	-	-	3:15:6	For time sync. (BNC to STS)	213

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
1	PS1	EC1BL-S-F	strain gauge	-	-	13	0:0:0	S1	2
2	PS2	EC1BR-S-F	strain gauge	-	-	14	0:0:1	S2	3
3	PS3	EC1TL-S-F	strain gauge	-	-	15	0:0:2	S3	4
4	PS4	EC1TR-S-F	strain gauge	-	-	16	0:0:3	S4	5
5	PS5	EB2TR-N-F	strain gauge	-	-	339/198A	0:0:4	S77	6
6	PS6	WB2TL-N-F	strain gauge	-	-	193	0:0:5	S78	7
7	PS7	EC1-B-N-1-R	rosette	-	-	17	0:0:6	R1-1 (Red)	8
8	PS8	EC1-B-N-2-R	rosette	-	-	18	0:0:7	R1-2 (White)	9
9	PS9	EC1-B-N-3-R	rosette	-	-	19	0:1:0	R1-3 (Green)	10
10	PS10	EC1BL-N-F	strain gauge	-	-	38	0:1:1	S79	11
11	PS11	EC1BR-N-F	strain gauge	-	-	40	0:1:2	S80	12
12	PS12	EC1TL-N-F	strain gauge	-	-	37	0:1:3	S81	13
13	PS13	EC1TR-N-F	strain gauge	-	-	39	0:1:4	S82	14
14	PS14	WC1BL-S-F	strain gauge	-	-	34	0:1:5	S83	15
15	PS15	WC1BR-S-F	strain gauge	-	-	33	0:1:6	S84	16
16	PS16	WC1BL-N-F	strain gauge	-	-	36	0:1:7	S85	17
17	PS17	WC1BR-N-F	strain gauge	-	-	35	0:2:0	S86	18
18	PS18	EC2TL-S-F	strain gauge	-	-	52	0:2:1	S87	19
19	PS19	EC2TR-S-F	strain gauge	-	-	51	0:2:2	S88	20
20	PS20	EC2TL-N-F	strain gauge	-	-	49	0:2:3	S89	21
21	PS21	EC2TR-N-F	strain gauge	-	-	50	0:2:4	S90	22
22	PS22	WC2TL-S-F	strain gauge	-	-	55	0:2:5	S91	23
23	PS23	WC2TR-S-F	strain gauge	-	-	56	0:2:6	S92	24
24	PS24	WC2TL-N-F	strain gauge	-	-	120C	0:2:7	S93	25
25	PS25	WC2TR-N-F	strain gauge	-	-	54	0:3:0	S94	26
26	PS26	E-HSS-2-M-T-Y	strain gauge	-	-	402	0:3:1	S95	27
27	PS27	1F-E-BG-B-1-N-R	strain gauge	-	-	44	0:3:2	S96	28
28	PS28	1F-E-BG-B-2-N-R	strain gauge	-	-	45	0:3:3	S97	29
29	PS29	1F-E-BG-B-3-N-R	strain gauge	-	-	46	0:3:4	S98	30
30	PS30	EG1T-F	strain gauge	-	-	47	0:3:5	S99	31
31	PS31	1F-E-BG-BR-1-N-R	rosette	-	-	41	0:4:4	R21-1 (Red)	32
32	PS32	1F-E-BG-BR-2-N-R	rosette	-	-	42	0:4:5	R21-2 (White)	33
33	PS33	1F-E-BG-BR-3-N-R	rosette	-	-	43	0:4:6	R21-3 (Green)	34
34	PS34	STB1-T-F	strain gauge	-	-	97	0:4:7	S74	35
35	PS35	STB1-B-F	strain gauge	-	-	98	0:5:0	S75	36
36	PS36	STB2-B-F	strain gauge	-	-	100	0:5:1	S76	37

Channel	ID	Label	Device	Range	Serial No.	Cable No.	DAQ Box ID	Note	Column #
37	PS37	WG1T-F	strain gauge	-	-	37C	0:5:3	(C for color coded cable)	38
38	PS38	W-HSS-2-M-T-Y	strain gauge	-	-	33C	0:5:7	(C for color coded cable)	39
39	73	IRIGday-73	-	-	-	-	0:9:0	For time sync. (BNC to STS)	40
40	74	IRIGHour-74	-	-	-	-	0:9:1	For time sync. (BNC to STS)	41
41	75	IRIGmin-75	-	-	-	-	0:9:2	For time sync. (BNC to STS)	42
42	76	IRIGsec-76	-	-	-	-	0:9:3	For time sync. (BNC to STS)	43
43	77	IRIGmsec-77	-	-	-	-	0:9:4	For time sync. (BNC to STS)	44
44	78	IRIGusec-78	-	-	-	-	0:9:5	For time sync. (BNC to STS)	45
45	79	IRIGstatus-79	-	-	-	-	0:9:6	For time sync. (BNC to STS)	46