

SECTION AT PIER 2

SECTION A-A

BEARING ORIENTATION DETAIL PIER 2

TYPE 1 ELASTOMERIC EXP BRG.
(7 Required)

BEARING ASSEMBLY

INTERIOR BEAM MOMENT TABLE

	OF SPAN 1	PIER 1	OF SPAN 2	PIER 2	OF SPAN 3
I_b (in ⁴)	4930	4930	4930	4930	4930
S_b (in ³)	319	319	319	319	319
S_{b1} (in ³)	18.0	18.0	18.0	18.0	18.0
S_{b2} (in ³)	1109	1109	1109	1109	1109
M_b (FT K)	71	242	180	519	184
M_b (FT K)	211	234	206	139	194
M_{Imp} (FT K)	41	47	81	46	65
$3M_b/M_{Imp}$ (FT K)	454	501	644	509	434
M_{b1} (FT K)	493	493	1071	1071	1024
M_{b2} (FT K)	7	0	14	3	8
F_b (KSI)	1.11	9.11	9.11	11.0	5.9
F_b (KSI)	10.4	10.3	23.5	18.4	23.1
F_w (KSI)	5.5	4.4	10.7	4.5	6.0
$F_b + F_w$ (KSI)	15.9	14.7	34.2	22.9	29.1
F_b (Total) (KSI)	24.9	20.2	39.1	39.3	37.0
F_w (Total) (KSI)	30.4	40.0	49.7	45.4	43.5
F_a (KSI)	50.0	40.0	50.0	45.5	50.0

BEARING ORIENTATION DETAIL PIER 2
See sheet 11 for values of b

INTERIOR BEAM REACTION TABLE

	Span 1	Pier 1	Pier 2	Span 2
R_b (K)	132	598	270	129
R_{b1} (K)	366	466	462	370
R_{b2} (K)	103	134	131	105
R_{Total} (K)	579	1800	1663	667

SIDE RETAINER
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates (3 Required)

BEARING DETAILS
FA 710 IUS SJ DVEP
LAKE SHORE DRIVE
SECTION 40 HOR-1
MACON COUNTY
STATION 107+09.49

COLLINS AND RICE
CONSULTING ENGINEERS
CHICAGO, ILL.
DATE 12-6-00 BY CG

