GROUP 3 CASE 2

BENDING AND SHEAR STRESSES

	Minus kip-ft	Spos in^3	Sweak kif	Shear kips	Pipe Area in^2	Fcx ksi	Axial kips	Area y in^2	fa ksi
Left Support	69.51	69.01	11.51	3.70	21.21	0.10	2.66	21.21	0.13
Right Support	60.40	69.01	10.50	3.37	21.21	0.10	2.66	21.21	0.13

RESULTS

	Fb ksi	Fv ksi	Fa ksi	Cc	Rmax	KLR	Fe	Eqn. 5-17 CSR	Eqn. 5-18 CSR	Eqn. 5-19 CSR	MAX CSR
Left Support	27.72	13.86	9.60	118.70	4.77	124.17	9.69	0.426	0.400	0.346	0.426
Right Support	27.72	13.86	9.60	118.70	4.77	126.73	8.11	0.345	0.362	0.340	0.362

	Length	Pipe or Angle	Diagonal Area	Rmin	Chord Yield Str.	Max Axial Force	Column Slenderness	KLR/rmin	fe (ksi)	Fa (ksi)	Result C/D
Left Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00
Right Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00

Fb Calculation

	Fams	Fbms	Fbns	Compact (ksi)	Non-Compact (ksi)	Similar
Left Support						
Eqn. 5-17	0.000	0.428	0.000			
Eqn. 5-18	0.000	0.428	0.000			
Eqn. 5-19	0.000	0.428	0.000			
Right Support						
Eqn. 5-17	0.000	0.428	0.000			
Eqn. 5-18	0.000	0.428	0.000	27.72	51.60	51.60
Eqn. 5-19	0.000	0.428	0.000	27.72	51.60	51.60

GROUP 3 CASE 3

BENDING AND SHEAR STRESSES

	Minus kip-ft	Spos in^3	Sweak kif	Shear kips	Pipe Area in^2	Fcx ksi	Axial kips	Area y in^2	fa ksi
Left Support	59.34	69.01	10.32	2.98	21.21	0.12	3.60	21.21	0.16
Right Support	50.88	69.01	9.20	2.54	21.21	0.13	1.81	21.21	0.09

RESULTS

	Fb ksi	Fv ksi	Fa ksi	Cc	Rmax	KLR	Fe	Eqn. 5-17 CSR	Eqn. 5-18 CSR	Eqn. 5-19 CSR	MAX CSR
Left Support	27.72	13.86	9.60	118.70	4.77	124.17	9.69	0.363	0.342	0.295	0.363
Right Support	27.72	13.86	9.60	118.70	4.77	126.73	8.11	0.245	0.362	0.240	0.362

	Length	Pipe or Angle	Diagonal Area	Rmin	Chord Yield Str.	Max Axial Force	Column Slenderness	KLR/rmin	fe (ksi)	Fa (ksi)	Result C/D
Left Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00
Right Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00

Fb Calculation

	Fams	Fbms	Fbns	Compact (ksi)	Non-Compact (ksi)	Similar
Left Support						
Eqn. 5-17	0.000	0.363	0.000			
Eqn. 5-18	0.000	0.363	0.000			
Eqn. 5-19	0.000	0.363	0.000			
Right Support						
Eqn. 5-17	0.000	0.363	0.000			
Eqn. 5-18	0.000	0.363	0.000	27.72	51.60	51.60
Eqn. 5-19	0.000	0.363	0.000	27.72	51.60	51.60

GROUP 3 CASE 4

BENDING AND SHEAR STRESSES

	Minus kip-ft	Spos in^3	Sweak kif	Shear kips	Pipe Area in^2	Fcx ksi	Axial kips	Area y in^2	fa ksi
Left Support	35.60	69.01	6.19	1.60	21.21	0.06	3.60	21.21	0.16
Right Support	31.60	69.01	5.03	1.30	21.21	0.06	1.81	21.21	0.09

RESULTS

	Fb ksi	Fv ksi	Fa ksi	Cc	Rmax	KLR	Fe	Eqn. 5-17 CSR	Eqn. 5-18 CSR	Eqn. 5-19 CSR	MAX CSR
Left Support	27.72	13.86	9.60	118.70	4.77	124.17	9.69	0.218	0.205	0.177	0.218
Right Support	27.72	13.86	9.60	118.70	4.77	126.73	8.11	0.21	0.20	0.32	0.32

	Length	Pipe or Angle	Diagonal Area	Rmin	Chord Yield Str.	Max Axial Force	Column Slenderness	KLR/rmin	fe (ksi)	Fa (ksi)	Result C/D
Left Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00
Right Diagonal	0.00	PIPE	0.00	999.00	0	0.00	999.00	0.00	999.00	999.00	1.00

Fb Calculation

	Fams	Fbms	Fbns	Compact (ksi)	Non-Compact (ksi)	Similar
Left Support						
Eqn. 5-17	0.000	0.218	0.000			
Eqn. 5-18	0.000	0.218	0.000			
Eqn. 5-19	0.000	0.218	0.000			
Right Support						
Eqn. 5-17	0.000	0.218	0.000			
Eqn. 5-18	0.000	0.218	0.000	27.72	51.60	51.60
Eqn. 5-19	0.000	0.218	0.000	27.72	51.60	51.60

Left Post	Max. Axial Force in Diag. = 0.00
Right Post	Max. Axial Force in Diag. = 0.00

Max. Overall = 0.00

Left Post max CSR	0.72
Right Post max CSR	0.62

Left diag max CSR	1.00
Right diag max CSR	1.00

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