GROUP 4 CASE 2

BENDING AND SHEAR STRESSES

	Mmax kip-ft	Sprof in^3	Bweak kst	Shear kips	Pipe Area in^2	hs ksi	Axial kips	Area y in^2	fb ksi
Left Support	68.93	69.01	8.92	2.72	21.21	0.13	2.93	21.21	0.13
Right Support	84.42	69.01	14.68	3.37	21.21	0.16	3.17	21.21	0.15

RESULTS

	Fb ksi	Fv ksi	Fa ksi	Cc	Rweak	KLR	Fa'	Eqn. 5-17 CSR	Eqn. 5-18 CSR	Eqn. 5-19 CSR	MAX CSR
Left Support	27.72	13.86	8.88	116.76	4.77	129.60	8.88	0.320	0.370	0.341	0.370
Right Support	27.72	13.86	7.77	116.76	4.77	129.60	7.77	0.340	0.356	0.340	0.356

	Length ft	Pipe or Angle	Diagonal Area	Rmin in	Chord Yield Str.	Max Axial Force	Column Slenderness	KL/Rmin	fa (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

	Tension (ksi)	Tens. Fb (ksi)	Comp. Fb (ksi)
Left Support	0.000	0.000	0.000
Eqn. 5-17	0.000	0.000	0.000
Eqn. 5-18	0.000	0.000	0.000
Eqn. 5-19	0.000	0.000	0.000
Right Support	Tension	Tens. Fb	Comp. Fb
Eqn. 5-17	0.000	0.000	0.000
Eqn. 5-18	0.000	0.000	0.000
Eqn. 5-19	0.000	0.000	0.000

	Compact (ksi)	Non-Compact (ksi)	Similar
Left Support	27.72	51.60	51.60
Right Support	27.72	51.60	51.60

GROUP 4 CASE 3

BENDING AND SHEAR STRESSES

	Mmax kip-ft	Sprof in^3	Bweak kst	Shear kips	Pipe Area in^2	hs ksi	Axial kips	Area y in^2	fb ksi
Left Support	49.87	69.01	6.61	2.13	21.21	0.10	3.61	21.21	0.10
Right Support	79.10	69.01	12.71	2.63	21.21	0.13	4.36	21.21	0.21

RESULTS

	Fb ksi	Fv ksi	Fa ksi	Cc	Rweak	KLR	Fa'	Eqn. 5-17 CSR	Eqn. 5-18 CSR	Eqn. 5-19 CSR	MAX CSR
Left Support	27.72	13.86	8.88	116.76	4.77	129.60	8.88	0.320	0.345	0.335	0.345
Right Support	27.72	13.86	7.77	116.76	4.77	129.60	7.77	0.449	0.468	0.449	0.468

	Length ft	Pipe or Angle	Diagonal Area	Rmin in	Chord Yield Str.	Max Axial Force	Column Slenderness	KL/Rmin	fa (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

	Tension (ksi)	Tens. Fb (ksi)	Comp. Fb (ksi)
Left Support	0.000	0.000	0.000
Eqn. 5-17	0.000	0.000	0.000
Eqn. 5-18	0.000	0.000	0.000
Eqn. 5-19	0.000	0.000	0.000
Right Support	Tension	Tens. Fb	Comp. Fb
Eqn. 5-17	0.000	0.000	0.000
Eqn. 5-18	0.000	0.000	0.000
Eqn. 5-19	0.000	0.000	0.000

	Compact (ksi)	Non-Compact (ksi)	Similar
Left Support	27.72	51.60	51.60
Right Support	27.72	51.60	51.60

GROUP 4 CASE 5

BENDING AND SHEAR STRESSES

	Mmax kip-ft	Sprof in^3	Bweak kst	Shear kips	Pipe Area in^2	hs ksi	Axial kips	Area y in^2	fb ksi
Left Support	29.92	69.01	9.20	1.34	21.21	0.04	3.61	21.21	0.15
Right Support	41.86	69.01	7.63	1.73	21.21	0.08	4.36	21.21	0.20

RESULTS

	Fb ksi	Fv ksi	Fa ksi	Cc	Rweak	KLR	Fa'	Eqn. 5-17 CSR	Eqn. 5-18 CSR	Eqn. 5-19 CSR	MAX CSR
Left Support	27.72	13.86	8.88	116.76	4.77	129.60	8.88	0.16	0.21	0.21	0.21
Right Support	27.72	13.86	7.77	116.76	4.77	129.60	7.77	0.26	0.31	0.30	0.31

	Length ft	Pipe or Angle	Diagonal Area	Rmin in	Chord Yield Str.	Max Axial Force	Column Slenderness	KL/Rmin	fa (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

	Tension (ksi)	Tens. Fb (ksi)	Comp. Fb (ksi)
Left Support	0.000	0.000	0.000
Eqn. 5-17	0.000	0.000	0.000
Eqn. 5-18	0.000	0.000	0.000
Eqn. 5-19	0.000	0.000	0.000
Right Support	Tension	Tens. Fb	Comp. Fb
Eqn. 5-17	0.000	0.000	0.000
Eqn. 5-18	0.000	0.000	0.000
Eqn. 5-19	0.000	0.000	0.000

	Compact (ksi)	Non-Compact (ksi)	Similar
Left Support	27.72	51.60	51.60
Right Support	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	0.45
Right Post max CSR	0.50
Left diag max CSR	1.00
Right diag max CSR	1.00

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