FORM DQP 2.01-1
LEVEL 1 CHECK PRINT SIGN-OFF SHEET

Client Name:	**Ohio Department of Transportation**
Job Title:	**Cleveland Innerbelt Design-Build Contract**
Job Number:	**CUY-90-14.90**
Document Title:	Revised Hanger connection to Stringer

Check Level (Mark One):

- [x] 1A 100% Document Check
- [ ] 1B 100% Input Check

Enter description below:

		Print Name	Signature	Date
[x]	Originator	David Glastetter		10/20/11
[x]	Checker	SARAH LARSON	Sarah Larson	10-20-11
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Form DQP 2.01-1

DJG 10/20/11
SJL 10-20-11
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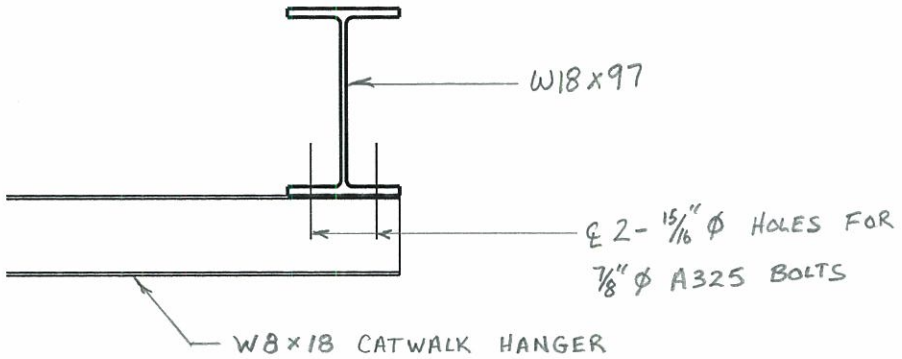

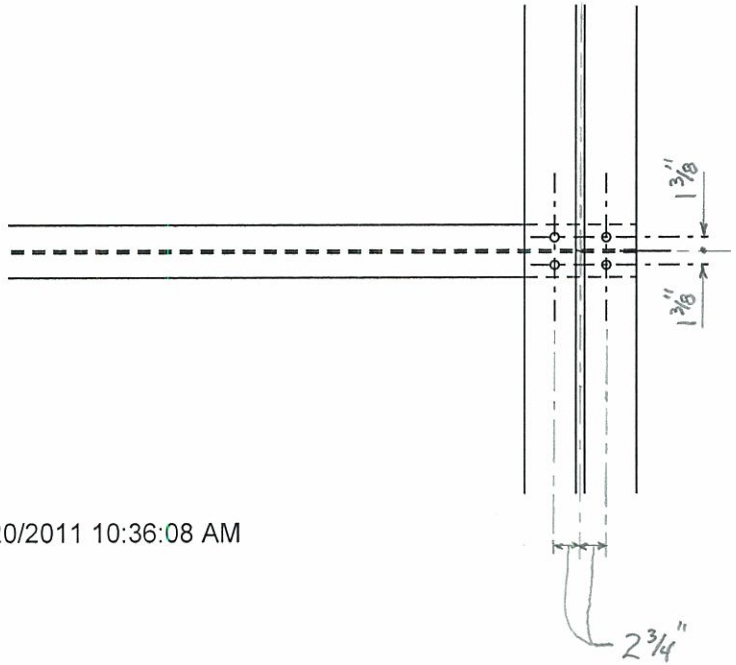

I-90WB-Rotated for 50 percent.dgn 10/20/2011 10:36:08 AM

SJL 10-20-11
DJG 10/20/11

Bolted Connection from the catwalk hanger (W8 x 18) to the stringer (W18 x 97)

$P_t := 28kip$ Minimum Required bolt tension

$d_b := 0.875in$

$A_b := \frac{\pi \cdot d_b^{\,2}}{4} = 0.601 \cdot in^2$

$F_{ub} := 120ksi$

Use a 4 Bolt Pattern one bolt in each quadrant

$R_B := 5.108kip$ (From DJG/SJL calcs on 9/16/11)

$P_b := \frac{R_B}{4} = 1.277 \cdot kip$

Prying Action (A. 6.13.2.10.4)

$a := 1.25in$

$t := 0.33in$

$b := \frac{5.25in - t}{2} - a = 1.21 \cdot in$

$Q_u := \left(\frac{3 \cdot b}{8 \cdot a} - \frac{t^3}{20 \cdot in^3} \right) \cdot P_b = 0.461 \cdot kip$

$R_T := P_b + Q_u = 1.738 \cdot kip$

Allowable Tension (A. 6.13.2.10.2)

$\phi_t := 0.8$

$T_n := \phi_t \cdot 0.76 \cdot A_b \cdot F_{ub} = 43.872 \cdot kip$

$Check_{Tension} := if\left(R_T \le T_n, "OK", "NG"\right) = "OK"$

Check Flexure of hanger top flange about the toe of the fillet (assume b = 11 in = W18x97 flange width).

$$M_b := 2 \cdot R_T \cdot b = 4.207 \cdot in \cdot kip$$

$$I_f := \frac{11in \cdot (0.33in)^3}{12} = 0.033 \cdot in^4$$

$$c := \frac{0.33in}{2}$$

$$\sigma_b := \frac{M_b \cdot c}{I_f} = 21.07 \cdot ksi$$ << Fy = 50 ksi, OK

Check the Net Section Fracture at the Mid Point of the Stringer

$$F_u := 65ksi$$

$$A_g := 11.1in \cdot 0.87in = 9.657 \cdot in^2$$

$$A_n := A_g - 2 \cdot \left(d_b + 0.0625in\right) \cdot 0.87in = 8.026 \cdot in^2$$

$$\phi_{fr} := 0.8$$

$$F_{fracture} := \phi_{fr} \cdot 0.84 \cdot \left(\frac{A_n}{A_g}\right) \cdot F_u = 36.302 \cdot ksi$$ (A. 6.10.1.8)

Max Tensile Stress from Stringer Design:

$$F_{design} := 34.5ksi$$

$$Check_{NetSection} := if\left(F_{design} \leq F_{fracture}, "OK", "NG"\right) = "OK"$$

Check force to overcome sliding friction on opposite side from connection

$\mu_s := 0.3$ Steel on Steel max coefficient of sliding friction

$$R_n := \left[0.5 \cdot 15\text{ft} \cdot 18\frac{\text{lbf}}{\text{ft}} + \left[\left(6\text{lbf} \cdot 2 + 22.4\frac{\text{lbf}}{\text{ft}} \cdot 4.167\text{ft}\right) \cdot \frac{2.5\text{ft}}{15\text{ft}}\right]\right] \cdot 1.25 = 0.191 \cdot \text{kip}$$

$$F_s := \mu_s \cdot R_n = 0.057 \cdot \text{kip}$$

$$M_{bolts} := F_s \cdot 15\text{ft} = 10.298 \cdot \text{in} \cdot \text{kip}$$

$$I_{bolts} := 4 \cdot \left[(2.75\text{in})^2 + (1.375\text{in})^2\right] = 37.812 \cdot \text{in}^2$$

$$R_x := \frac{M_{bolts} \cdot 1.375\text{in}}{I_{bolts}} = 0.374 \cdot \text{kip}$$

$$R_y := \frac{M_{bolts} \cdot 2.75\text{in}}{I_{bolts}} = 0.749 \cdot \text{kip}$$

$$R_v := \frac{F_s}{4} = 0.014 \cdot \text{kip}$$

$$R := \sqrt{\left[\left(R_y + R_v\right)^2 + R_x^{\,2}\right]} = 0.85 \cdot \text{kip}$$

$N_s := 1$ $\phi_b := 0.8$

$R_n := \phi_b \cdot 0.48 \cdot A_b \cdot F_{ub} \cdot N_s = 27.709 \cdot \text{kip}$ > R = 0.85 kips, OK

$\frac{R}{R_n} = 0.031$ Less than 0.33 use A. 6.13.2.11-1

$T_n := \phi_b \cdot 0.76 \cdot A_b \cdot F_{ub} = 43.872 \cdot \text{kip}$ > R_T = 1.738 kips OK

Bearing Resistance at Bolt Holes for end distance less than 2d. A. 6.13.2.9-2

$L_c := 0.067ft$ $t := 0.33in$ $F_u := 65ksi$

$R_n := \phi_b \cdot 1.2 \cdot L_c \cdot t \cdot F_u = 16.556 \cdot kip$ > 0.85 kips, OK

Table 6.13.2.8-1—Minimum Required Bolt Tension

Bolt Diameter, in.	Required Tension-P_t (kip)	
	M 164 (A325)	M 253 (A490)
5/8	19	24
3/4	28	35
7/8	39	49
1	51	64
1-1/8	56	80
1-1/4	71	102
1-3/8	85	121
1-1/2	103	148

Table 6.13.2.8-2—Values of K_h

For standard holes	1.00
For oversize and short-slotted holes	0.85
For long-slotted holes with the slot perpendicular to the direction of the force	0.70
For long-slotted holes with the slot parallel to the direction of the force	0.60

Table 6.13.2.8-3—Values of K_s

For Class A surface conditions	0.33
For Class B surface conditions	0.50
For Class C surface conditions	0.33

The following descriptions of surface condition shall apply to Table 6.13.2.8-3:

- Class A Surface: unpainted clean mill scale, and blast-cleaned surfaces with Class A coatings,
- Class B Surface: unpainted blast-cleaned surfaces and blast-cleaned surfaces with Class B coatings, and
- Class C Surface: hot-dip galvanized surfaces roughened by wire brushing after galvanizing.

The contract documents shall specify that in uncoated joints, paint, including any inadvertent overspray, be excluded from areas closer than one bolt diameter but not less than 1.0 in. from the edge of any hole and all areas within the bolt pattern.

The criteria for slip resistance are for the case of connections subject to a coaxial load. For cases in which the load tends to rotate the connection in the plane of the faying surface, a modified formula accounting for the placement of bolts relative to the center of rotation should be used (Kulak et al., 1987).

The required tension specified for AASHTO M 164 (ASTM A325) bolts larger than M24 reflects an update from the ISO specification that lists identical material properties for the size range from M16 to M36. This update has not yet been applied to the customary U.S. Specifications.

The minimum bolt tension values given in Table 6.13.2.8-1 are equal to 70 percent of the minimum tensile strength of the bolts. The same percentage of the tensile strength has been traditionally used for the required tension of the bolts.

The effect of ordinary paint coatings on limited portions of the contact area within joints and the effect of overspray over the total contact area have been investigated experimentally (Polyzois and Frank, 1986). The tests demonstrated that the effective area for transfer of shear by friction between contact surfaces was concentrated in an annular ring around and close to the bolts. Paint on the contact surfaces approximately 1.0 in., but not less than the bolt diameter away from the edge of the hole did not reduce the slip resistance. On the other hand, bolt pretension might not be adequate to completely flatten and pull thick material into tight contact around every bolt. Therefore, these Specifications require that all areas between bolts also be free of paint.

$$R_n = 1.2L_c tF_u \quad (6.13.2.9\text{-}2)$$

For long-slotted holes perpendicular to the applied bearing force:

- With bolts spaced at a clear distance between holes not less than $2.0d$ and with a clear end distance not less than $2.0d$:

$$R_n = 2.0dtF_u \quad (6.13.2.9\text{-}3)$$

- If either the clear distance between holes is less than $2.0d$, or the clear end distance is less than $2.0d$:

$$R_n = L_c tF_u \quad (6.13.2.9\text{-}4)$$

where:

d = nominal diameter of the bolt (in.)

t = thickness of the connected material (in.)

F_u = tensile strength of the connected material specified in Table 6.4.1-1 (ksi)

L_c = clear distance between holes or between the hole and the end of the member in the direction of the applied bearing force (in.)

where:

r_n = nominal bearing pressure (ksi)

F_u = specified minimum tensile strength of the connected part (ksi)

In these Specifications, the nominal bearing resistance of an interior hole is based on the clear distance between the hole and the adjacent hole in the direction of the bearing force. The nominal bearing resistance of an end hole is based on the clear distance between the hole and the end of the member. The nominal bearing resistance of the connected member may be taken as the sum of the resistances of the individual holes. The clear distance is used to simplify the computations for oversize and slotted holes.

Holes may be spaced at clear distances less than the specified values, as long as the lower value specified by Eq. 6.13.2.9-2 or Eq. 6.13.2.9-4, as applicable, is used for the nominal bearing resistance.

6.13.2.10—Tensile Resistance

6.13.2.10.1—General

High-strength bolts subjected to axial tension shall be tensioned to the force specified in Table 6.13.2.8-1. The applied tensile force shall be taken as the force due to the external factored loadings, plus any tension resulting from prying action produced by deformation of the connected parts, as specified in Article 6.13.2.10.4.

6.13.2.10.2—Nominal Tensile Resistance

The nominal tensile resistance of a bolt, T_n, independent of any initial tightening force shall be taken as:

$$T_n = 0.76A_b F_{ub} \quad (6.13.2.10.2\text{-}1)$$

where:

A_b = area of bolt corresponding to the nominal diameter (in.^{2})

F_{ub} = specified minimum tensile strength of the bolt specified in Article 6.4.3 (ksi)

C6.13.2.10.2

The recommended design strength is approximately equal to the initial tightening force; thus, when loaded to the service load, high-strength bolts will experience little, if any, actual change in stress. For this reason, bolts in connections, in which the applied loads subject the bolts to axial tension, are required to be fully tensioned.

6.13.2.10.3—Fatigue Resistance

Where high-strength bolts in axial tension are subject to fatigue, the stress range, Δf, in the bolt, due to the fatigue design live load, plus the dynamic load allowance for fatigue loading specified in Article 3.6.1.4, plus the prying force resulting from cyclic application of the fatigue load, shall satisfy Eq. 6.6.1.2.2-1.

The nominal diameter of the bolt shall be used in calculating the bolt stress range. In no case shall the calculated prying force exceed 30 percent of the externally applied load.

Low carbon ASTM A307 bolts shall not be used in connections subjected to fatigue.

C6.13.2.10.3

Properly tightened A325 and A490 bolts are not adversely affected by repeated application of the recommended service load tensile stress, provided that the fitting material is sufficiently stiff that the prying force is a relatively small part of the applied tension. The provisions covering bolt tensile fatigue are based upon study of test reports of bolts that were subjected to repeated tensile load to failure (Kulak et al., 1987).

6.13.2.10.4—Prying Action

The tensile force due to prying action shall be taken as:

$$Q_u = \left[\frac{3b}{8a} - \frac{t^3}{20}\right] P_u \qquad (6.13.2.10.4\text{-}1)$$

where:

Q_u = prying tension per bolt due to the factored loadings taken as 0 when negative (kip)

P_u = direct tension per bolt due to the factored loadings (kip)

a = distance from center of bolt to edge of plate (in.)

b = distance from center of bolt to the toe of fillet of connected part (in.)

t = thickness of thinnest connected part (in.)

C6.13.2.10.4

Eq. 6.13.2.10.4-1 for estimating the magnitude of the force due to prying is a simplification given in ASCE (1971) of a semiempirical expression (Douty and McGuire, 1965). This simplified formula tends to overestimate the prying force and provides conservative design results (Nair et al., 1974).

6.13.2.11—Combined Tension and Shear

The nominal tensile resistance of a bolt subjected to combined shear and axial tension, T_n, shall be taken as:

- If $\frac{P_u}{R_n} \le 0.33$, then:

$$T_n = 0.76\, A_b F_{ub} \qquad (6.13.2.11\text{-}1)$$

- Otherwise:

$$T_n = 0.76 A_b F_{ub} \sqrt{1 - \left(\frac{P_u}{\phi_s R_n}\right)^2} \qquad (6.13.2.11\text{-}2)$$

where:

A_b = area of the bolt corresponding to the nominal diameter (in.^{2})

C6.13.2.11

The nominal tensile resistance of bolts subject to combined axial tension and shear is provided by elliptical interaction curves, which account for the connection length effect on bolts loaded in shear, the ratio of shear strength to tension strength of threaded bolts, and the ratios of root area to nominal body area and tensile stress area to nominal body area (Chesson et al., 1965). Eqs. 6.13.2.11-1 and 6.13.2.11-2 are conservative simplifications of the set of elliptical curves. The equations representing the set of elliptical curves for various cases may be found in AISC (1988). No reduction in the nominal tensile resistance is required when the applied shear force on the bolt due to the factored loads is less than or equal to 33 percent of the nominal shear resistance of the bolt.

STR A

Made: TRG 8/
Checked: KDG 8/8/11
BkChked: TRG 8/8/11

19.215	-0.23526448	-1.19519410	0.00731185	0.23617978	519.12774001	41.76551858				
19.250	1.35198071	-3.36156032	0.01026556	0.35548753	1028.98029275	37.31341589				
19.250	1.35198071	-3.36156026	0.01026556	0.35548750	1028.98029275	37.31341589				
19.300	3.37564472	-6.19180889	0.01437283	0.53586578	1696.07830506	30.79237116				
19.300	3.37564472	-6.19180882	0.01437283	0.53586574	1696.07830506	30.79237116				
19.350	5.09399171	-8.60942837	0.01792559	0.69140547	2268.18312080	24.20731949				
19.350	5.09399171	-8.60942828	0.01792558	0.69140541	2268.18312080	24.20731949				
19.400	6.50812207	-10.60724811	0.02088323	0.82077465	2742.22983838	17.56310018				
19.400	6.50812206	-10.60724801	0.02088322	0.82077459	2742.22983838	17.56310018				
19.424	7.07457453	-11.40855672	0.02207038	0.87277585	2932.52680127	14.38200855				
19.424	7.07457451	-11.40855661	0.02207037	0.87277578	2932.52680127	14.38200855				
19.450	7.61905534	-12.17851982	0.02320785	0.92272529	3115.33442535	10.86500649				
19.450	7.61905532	-12.17851971	0.02320785	0.92272521	3115.33442535	10.86500649				
19.500	8.42764716	-13.31733941	0.02486680	0.99617631	3384.97739306	4.11756638				
19.500	8.42764715	-13.31733930	0.02486680	0.99617623	3384.97739306	4.11756638				
19.550	8.93467151	-14.01822909	0.02583009	1.04013100	3548.82242384	-2.67429893				
19.550	8.93467150	-14.01822897	0.02583009	1.04013092	3548.82242384	-2.67429893				
19.600	9.13221706	-14.31979205	0.02633571	1.06228802	3623.70967221	-9.69267097				
19.600	9.13221705	-14.31979193	0.02633571	1.06228794	3623.70967221	-9.69267096				
19.608	9.13364214	-14.33830459	0.02641878	1.06525983	3630.62453688	-10.88136327				
19.650	9.01617161	-14.24134175	0.02650367	1.06653421	3618.09927454	-17.12906588				
19.650	9.01617160	-14.24134162	0.02650366	1.06653413	3618.09927454	-17.12906588				
19.700	8.60411617	-13.69214691	0.02578593	1.03505495	3492.56049738	-24.67182172				
19.700	8.60411616	-13.69214679	0.02578592	1.03505487	3492.56049738	-24.67182172				
19.750	7.89768745	-12.66240540	0.02412683	0.96600382	3242.86175621	-32.31637029				
19.750	7.89768744	-12.66240529	0.02412682	0.96600374	3242.86175621	-32.31637029				
19.800	6.89860852	-11.14189058	0.02146829	0.85745155	2864.58317757	-40.04986835				
19.800	6.89860851	-11.14189049	0.02146828	0.85745148	2864.58317757	-40.04986835				
19.850	5.60794631	-9.12371608	0.01777260	0.70812788	2354.75611103	-47.88060027				
19.850	5.60794630	-9.12371600	0.01777260	0.70812783	2354.75611103	-47.88060027				
19.900	4.02730371	-6.59828982	0.01298577	0.51622979	1709.23096778	-55.78677697				
19.900	4.02730371	-6.59828976	0.01298577	0.51622975	1709.23096778	-55.78677697				
19.950	2.15768257	-3.55907944	0.00707244	0.28055757	925.18805169	-63.76461923				
19.950	2.15768257	-3.55907941	0.00707244	0.28055755	925.18805169	-63.76461923				
19.990	0.46571640	-0.77211976	0.00154532	0.06120588	201.24228132	-70.14739752				
19.998	0.06897569	-0.11447739	0.00022945	0.00908468	29.85345176	-71.55694712				
19.998	0.06897569	-0.11447739	0.00022945	0.00908468	29.85345176	-71.55694713				
19.999	0.03765732	-0.06250330	0.00012529	0.00496038	16.30027723	-71.66356312				
19.999	0.03765732	-0.06250330	0.00012529	0.00496038	16.30027723	-71.66356311				
20.000	0.01878658	-0.03118351	0.00006251	0.00247492	8.13260291	-71.72744327				
20.000	0.01878658	-0.03118351	0.00006251	0.00247492	8.13260291	-71.72744329				
20.000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-71.78937562				

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
0.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.018	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.036	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.054	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.071	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.089	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.107	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
0.125	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.143	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.161	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.179	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.196	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.214	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.232	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.250	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.268	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.286	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.304	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.321	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.339	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.357	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.375	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.393	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.411	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.429	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.446	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.464	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.482	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.500	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.518	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.536	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.554	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.571	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.589	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.607	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.625	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.643	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.661	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.679	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02

0.696	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.714	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.732	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.750	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.768	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.786	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.804	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.821	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.839	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.857	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.875	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.893	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.02
0.911	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.03
0.929	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.03
0.946	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.03
0.964	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.03
0.982	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.03
1.000	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.03
1.000	9.7	9.7	11.1000	0.8700	0.00	9.7	9.7	11.1000	0.8700	0.03
1.011	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.04
1.015	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.05
1.050	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.16
1.100	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.29
1.150	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.40
1.189	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.47
1.200	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.49
1.211	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.51
1.250	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.56
1.277	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.58
1.300	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.60
1.334	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.62
1.341	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.63

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
1.350	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.63
1.400	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.64
1.406	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.64
1.412	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.64
1.450	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.63
1.471	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.62
1.500	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.61
1.500	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.61
1.550	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.57
1.600	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.52
1.650	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.45
1.658	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.43
1.700	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.36
1.750	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.26
1.751	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.26
1.800	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.16
1.823	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.19
1.823	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.13
1.850	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.15
1.895	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.26
1.900	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.28
1.950	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.43
2.000	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.61
2.000	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.61
2.050	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.54
2.100	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.49
2.133	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.45
2.150	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.43
2.200	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.39
2.250	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.34
2.285	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.32
2.300	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.30
2.350	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.27
2.400	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.23
2.450	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.21
2.500	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.22
2.518	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.22
2.544	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.22
2.550	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.22
2.600	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.22
2.650	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.21
2.700	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.18
2.750	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.19
2.800	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.21
2.821	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.22
2.850	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.23
2.900	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.23
2.950	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.31
2.973	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.35
3.000	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.40
3.000	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.37
3.050	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.26
3.100	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.16

MAX STRESS RATIO 0.64

Made: TRG 8/
Checked: KDG 8/8/11
BkChked: TRG 8/8/11

3.124	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.13
3.124	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.24
3.150	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.22
3.169	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.20
3.200	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.19
3.250	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.23
3.300	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.27
3.350	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.30
3.400	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.33
3.414	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.33

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) ----------

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
3.450	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.34
3.465	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.34
3.500	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.34
3.543	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.33
3.548	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.33
3.550	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.33
3.600	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.31
3.618	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.30
3.650	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.28
3.687	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.25
3.700	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.24
3.750	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.20
3.756	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.20
3.780	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
3.800	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.24
3.805	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.25
3.805	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.14
3.850	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.17
3.900	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.22
3.950	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.29
4.000	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.39
4.000	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.39
4.050	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.31
4.052	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.30
4.100	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.24
4.108	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.23
4.150	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.20
4.200	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.16
4.250	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.17
4.262	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
4.262	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.24
4.300	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.22
4.350	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.26
4.380	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.27
4.400	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.28
4.450	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.30
4.500	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.30
4.524	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.30
4.550	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.30
4.600	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.29
4.650	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.27
4.673	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.25
4.700	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.23
4.730	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
4.750	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.23
4.786	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.25
4.786	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.15
4.800	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.14
4.850	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.17
4.900	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.21
4.950	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.30
5.000	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.38
5.000	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.37
5.001	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.37
5.050	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.29
5.100	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.21
5.150	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.17
5.198	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.15
5.198	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.26
5.200	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.26
5.250	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
5.295	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.24
5.300	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.24

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) ----------

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
5.350	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.28
5.352	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.28
5.400	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.30

5.450	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.31
5.495	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.31
5.500	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.31
5.550	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.31
5.600	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.30
5.623	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.29
5.650	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.27
5.700	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.24
5.750	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.22
5.753	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.23
5.791	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.26
5.791	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
5.800	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.14
5.850	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.17
5.900	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.21
5.916	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.23
5.950	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.29
5.973	9.7	9.7	11.1000	0.8700	0.09	9.7	9.7	11.1000	0.8700	0.33
6.000	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.37
6.000	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.38
6.050	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.29
6.100	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.22
6.117	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.20
6.150	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.17
6.174	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.16
6.200	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.14
6.214	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.16
6.214	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.25
6.230	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.24
6.244	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.23
6.250	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.23
6.286	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.22
6.300	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.23
6.350	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.27
6.400	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.29
6.450	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.31
6.496	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.31
6.500	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.31
6.550	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.31
6.585	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.30
6.600	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.29
6.609	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.29
6.650	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.27
6.700	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.23
6.750	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.23
6.778	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.25
6.778	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
6.800	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.14
6.850	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.18
6.900	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.22
6.917	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.23
6.950	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.30
7.000	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.38
7.000	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.38
7.050	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.28
7.100	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.22
7.150	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.18
7.200	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
7.207	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
7.209	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) ----------

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in^2)	REQ AREA (in^2)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
7.209	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.26
7.230	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.24
7.250	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
7.300	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.24
7.350	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.27
7.400	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.30
7.450	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.31
7.500	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.32
7.519	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.32
7.528	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.32
7.550	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.31
7.600	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.30
7.650	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.28
7.700	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.24
7.750	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.20
7.800	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.17
7.829	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.20
7.829	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.12
7.850	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.11
7.852	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.11
7.900	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.19
7.950	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.27
8.000	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.36
8.000	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.33
8.050	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.27

Made: TRG 8/
Checked: KDG 8/8/11
BkChked: TRG 8/8/11

8.100	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.23
8.150	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.20
8.200	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.17
8.202	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.17
8.250	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
8.293	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.17
8.293	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.26
8.300	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.25
8.350	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.22
8.402	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.24
8.450	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.24
8.500	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.24
8.515	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.24
8.550	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.24
8.569	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.24
8.597	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.25
8.600	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.25
8.650	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.23
8.703	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.26
8.739	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.28
8.739	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.17
8.750	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.17
8.800	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.17
8.850	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.20
8.858	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.21
8.900	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.23
8.905	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.23
8.950	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.27
8.998	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.31
9.000	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.32
9.000	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.43
9.037	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.34
9.050	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.31
9.100	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.21
9.144	9.7	9.7	11.1000	0.8700	0.01	9.7	9.7	11.1000	0.8700	0.14
9.144	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.26
9.150	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.24
9.200	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.20

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE					BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
9.245	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.19
9.250	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.19
9.300	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.24
9.342	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.27
9.350	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.27
9.400	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.30
9.405	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.30
9.450	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.31
9.500	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.30
9.550	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.30
9.600	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.28
9.603	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.28
9.650	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.30
9.666	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.32
9.666	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.24
9.700	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.20
9.750	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.24
9.800	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.29
9.811	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.30
9.850	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.34
9.900	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.41
9.907	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.41
9.950	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.48
10.000	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.56
10.000	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.56
10.050	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.38
10.100	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.24
10.118	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.21
10.150	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.14
10.173	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.14
10.173	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.21
10.200	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.19
10.250	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.29
10.263	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.31
10.265	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.31
10.300	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.37
10.330	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.41
10.350	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.44
10.400	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.48
10.450	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.51
10.488	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.52
10.500	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.52
10.513	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.52
10.550	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.51
10.600	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.48
10.650	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.44
10.658	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.43
10.700	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.37

10.725	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.33
10.750	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.28
10.800	9.7	9.7	11.1000	0.8700	0.32	9.7	9.7	11.1000	0.8700	0.32
10.802	9.7	9.7	11.1000	0.8700	0.33	9.7	9.7	11.1000	0.8700	0.33
10.802	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.18
10.850	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.24
10.900	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.33
10.908	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.35
10.926	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.39
10.936	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.42
10.946	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.44
10.950	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.45
10.956	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.47
11.000	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.61
11.000	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.61

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE					BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
11.050	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.48
11.100	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.37
11.150	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.29
11.178	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.25
11.200	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.21
11.239	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.22
11.239	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.33
11.250	9.7	9.7		11.1000	0.8700	0.31	9.7	9.7		11.1000	0.8700	0.31
11.300	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.32
11.350	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.39
11.359	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.39
11.400	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.43
11.450	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.45
11.474	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.46
11.500	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.46
11.510	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.46
11.550	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.45
11.600	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.43
11.650	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.38
11.700	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.32
11.750	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.24
11.781	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
11.781	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
11.800	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.15
11.850	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.20
11.897	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.28
11.900	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.28
11.950	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.41
12.000	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.58
12.000	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.69
12.050	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.54
12.100	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.44
12.150	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.34
12.195	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.27
12.195	9.7	9.7		11.1000	0.8700	0.42	9.7	9.7		11.1000	0.8700	0.47
12.200	9.7	9.7		11.1000	0.8700	0.41	9.7	9.7		11.1000	0.8700	0.46
12.250	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.36
12.300	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.29
12.350	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.34
12.400	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.38
12.450	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.40
12.492	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.40
12.500	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.40
12.550	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.39
12.600	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.37
12.650	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.33
12.651	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.33
12.669	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.31
12.687	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.29
12.700	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.27
12.705	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.27
12.750	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.26
12.788	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.30
12.788	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
12.800	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.19
12.850	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.28
12.900	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.37
12.950	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.51
13.000	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.71
13.000	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.71
13.050	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.49
13.100	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.38
13.150	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.28

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

Made: TRG 8/
Checked: KDG 8/8/11
BkChked: TRG 8/8/11

SPAN.LOC FRAC	TOP FLANGE INP AREA (in²)	TOP FLANGE REQ AREA (in²)	NG	TOP FLANGE WIDTH (in)	TOP FLANGE THICK (in)	TOP FLANGE STRESS RATIO	BOTTOM FLANGE INP AREA (in²)	BOTTOM FLANGE REQ AREA (in²)	NG	BOTTOM FLANGE WIDTH (in)	BOTTOM FLANGE THICK (in)	BOTTOM FLANGE STRESS RATIO
13.200	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.20
13.215	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
13.215	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.32
13.250	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.27
13.300	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.28
13.350	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.33
13.400	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.37
13.450	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.39
13.500	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.39
13.503	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.39
13.550	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.39
13.600	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.37
13.650	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.33
13.700	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.27
13.750	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.26
13.791	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.31
13.791	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
13.800	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.19
13.850	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.28
13.900	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.37
13.950	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.52
14.000	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.71
14.000	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.74
14.050	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.53
14.100	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.38
14.150	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.29
14.200	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.20
14.210	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.19
14.210	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.32
14.250	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.27
14.300	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.27
14.350	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.32
14.370	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.34
14.400	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.36
14.419	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.37
14.450	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.38
14.467	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.39
14.494	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.39
14.500	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.39
14.516	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.39
14.550	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.38
14.600	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.36
14.650	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.32
14.700	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.27
14.750	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.28
14.778	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.34
14.778	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.19
14.800	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.22
14.850	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.30
14.900	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.40
14.950	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.51
15.000	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.72
15.000	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.90
15.050	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.64
15.100	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.45
15.150	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.32
15.200	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.21
15.200	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.37
15.250	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.28
15.300	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.30
15.350	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.36
15.400	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.40
15.450	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.42

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

SPAN.LOC FRAC	TOP FLANGE INP AREA (in²)	TOP FLANGE REQ AREA (in²)	NG	TOP FLANGE WIDTH (in)	TOP FLANGE THICK (in)	TOP FLANGE STRESS RATIO	BOTTOM FLANGE INP AREA (in²)	BOTTOM FLANGE REQ AREA (in²)	NG	BOTTOM FLANGE WIDTH (in)	BOTTOM FLANGE THICK (in)	BOTTOM FLANGE STRESS RATIO
15.488	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.42
15.500	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.42
15.550	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.42
15.600	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.39
15.650	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.35
15.700	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.28
15.750	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.30
15.777	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.36
15.777	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.21
15.800	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.24
15.850	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.35
15.900	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.47
15.950	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.66
16.000	9.7	9.7		11.1000	0.8700	0.35	9.7	9.7		11.1000	0.8700	0.90
16.000	9.7	9.7		11.1000	0.8700	0.35	9.7	9.7		11.1000	0.8700	0.88
16.026	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.76
16.050	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.65
16.058	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.46
16.100	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.46

16.150	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.33
16.170	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.29
16.200	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.22
16.211	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.20
16.211	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.35
16.242	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.29
16.250	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.28
16.300	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.30
16.350	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.37
16.400	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.41
16.450	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.44
16.500	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.45
16.519	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.45
16.550	9.7	9.7		11.1000	0.8700	0.31	9.7	9.7		11.1000	0.8700	0.45
16.600	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.42
16.650	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.38
16.700	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.33
16.750	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.25
16.800	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.26
16.827	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.34
16.827	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.20
16.850	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.25
16.900	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.38
16.950	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.60
17.000	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.87
17.000	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.57
17.050	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.43
17.100	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.35
17.150	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.28
17.183	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.24
17.200	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.23
17.250	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.18
17.278	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.16
17.278	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.29
17.300	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.27
17.350	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.23
17.400	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.26
17.450	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.28
17.500	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.28
17.512	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.28
17.550	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.28
17.600	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.27
17.650	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.24
17.700	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.26

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

SPAN.LOC FRAC	TOP FLANGE INP AREA (in²)	TOP FLANGE REQ AREA (in²)	NG	TOP FLANGE WIDTH (in)	TOP FLANGE THICK (in)	TOP FLANGE STRESS RATIO	BOTTOM FLANGE INP AREA (in²)	BOTTOM FLANGE REQ AREA (in²)	NG	BOTTOM FLANGE WIDTH (in)	BOTTOM FLANGE THICK (in)	BOTTOM FLANGE STRESS RATIO
17.745	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.31
17.745	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.17
17.750	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.17
17.800	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.22
17.850	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.27
17.900	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.34
17.950	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.41
18.000	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.56
18.000	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.87
18.050	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.60
18.100	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.38
18.150	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.25
18.165	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.21
18.165	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.36
18.200	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.29
18.250	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.25
18.300	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.32
18.305	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.32
18.350	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.37
18.400	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.40
18.418	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.41
18.450	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.42
18.451	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.42
18.475	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.42
18.500	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.42
18.550	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.40
18.600	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.37
18.650	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.32
18.700	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.29
18.737	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.37
18.737	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.21
18.750	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.23
18.800	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.32
18.850	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.43
18.900	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.55
18.950	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.69
18.990	9.7	9.7		11.1000	0.8700	0.42	9.7	9.7		11.1000	0.8700	0.89
19.000	9.7	9.7		11.1000	0.8700	0.44	9.7	9.7		11.1000	0.8700	0.94
19.000	9.7	9.7		11.1000	0.8700	0.44	9.7	9.7		11.1000	0.8700	0.74
19.010	9.7	9.7		11.1000	0.8700	0.41	9.7	9.7		11.1000	0.8700	0.70
19.050	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.55

Made: TRG 8/
Checked: KDG 8/8/11
BkChked: TRG 8/8/11

19.100	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.40
19.150	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.28
19.200	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.18
19.218	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.16
19.218	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.28
19.250	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.23
19.300	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.34
19.350	9.7	9.7	11.1000	0.8700	0.30	9.7	9.7	11.1000	0.8700	0.43
19.400	9.7	9.7	11.1000	0.8700	0.38	9.7	9.7	11.1000	0.8700	0.51
19.424	9.7	9.7	11.1000	0.8700	0.41	9.7	9.7	11.1000	0.8700	0.54
19.450	9.7	9.7	11.1000	0.8700	0.44	9.7	9.7	11.1000	0.8700	0.57
19.500	9.7	9.7	11.1000	0.8700	0.48	9.7	9.7	11.1000	0.8700	0.61
19.550	9.7	9.7	11.1000	0.8700	0.51	9.7	9.7	11.1000	0.8700	0.63
19.600	9.7	9.7	11.1000	0.8700	0.52	9.7	9.7	11.1000	0.8700	0.64
19.608	9.7	9.7	11.1000	0.8700	0.52	9.7	9.7	11.1000	0.8700	0.64
19.650	9.7	9.7	11.1000	0.8700	0.52	9.7	9.7	11.1000	0.8700	0.64
19.700	9.7	9.7	11.1000	0.8700	0.50	9.7	9.7	11.1000	0.8700	0.61
19.750	9.7	9.7	11.1000	0.8700	0.46	9.7	9.7	11.1000	0.8700	0.56
19.800	9.7	9.7	11.1000	0.8700	0.40	9.7	9.7	11.1000	0.8700	0.49
19.850	9.7	9.7	11.1000	0.8700	0.32	9.7	9.7	11.1000	0.8700	0.40
19.900	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.29
19.950	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.16

MAX STRESS RATIO 0.64

HNTB BRIDGE DESIGN PROGRAM BDGS VERSION 2.9.1.0 PAGE 635
RUN TIME: 08/07/2011 19:48:37.651 OUTPUT
Filename: C:\DOCUME~1\tgregory\LOCALS~1\Temp\BDGS_StlDsn\Stringer A.OUT

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) --------------

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
19.990	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.03
19.998	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
19.999	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
20.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
20.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00

----- GIRDER 2 FLEXURAL FATIGUE STRESS SUMMARY ----------

NOTES:
- MOMENTS AND STRESSES ARE FACTORED
- DEAD LOAD STRESSES INCLUDE LATERAL FLANGE BENDING (IF APPLICABLE)
- STRESSES ARE BASED ON INPUT PLATE SIZES
- TENSION IS POSITIVE

			MAX FATIGUE I			MIN FATIGUE I								
SPAN.LOC	DEAD LOAD		LL+I	MLAT		LL+I	MLAT		TOP FLANGE			BOTTOM FLANGE		
FRAC	TOP FL (ksi)	BOT FL (ksi)	MZ (ft-k)	TOP (ft-k)	BOT	MZ (ft-k)	TOP (ft-k)	BOT	MAX (ksi)	MIN (ksi)	RANGE (ksi)	MAX (ksi)	MIN (ksi)	RANGE (ksi)
0.000	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0.014	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.035	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.054	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.071	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.089	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.107	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	-0.01	
0.125	0.00	0.00	0	0	0	-1	0	0	0.00	0.00	0.00	0.00	-0.02	
0.143	0.00	0.00	0	0	0	-1	0	0	0.00	0.00	0.00	0.00	-0.03	
0.161	0.00	0.00	0	0	0	-1	0	0	0.00	0.00	0.00	0.00	-0.04	
0.179	0.00	0.00	0	0	0	-2	0	0	0.00	0.00	0.00	0.00	-0.06	
0.196	0.00	0.00	0	0	0	-2	0	0	0.00	0.00	0.00	0.00	-0.07	
0.214	0.00	0.00	0	0	0	-2	0	0	0.00	0.00	0.00	0.00	-0.08	
0.232	0.00	0.00	0	0	0	-3	0	0	0.01	0.00	0.01	0.00	-0.09	
0.250	0.00	0.00	0	0	0	-3	0	0	0.01	0.00	0.01	0.00	-0.11	
0.268	0.00	0.00	0	0	0	-4	0	0	0.01	0.00	0.01	0.00	-0.12	
0.286	0.00	0.00	0	0	0	-4	0	0	0.01	0.00	0.01	0.00	-0.13	
0.304	0.00	0.00	0	0	0	-4	0	0	0.01	0.00	0.01	0.00	-0.14	
0.321	0.00	0.00	0	0	0	-5	0	0	0.01	0.00	0.01	0.00	-0.16	
0.339	0.00	0.00	0	0	0	-5	0	0	0.01	0.00	0.01	0.00	-0.17	
0.357	0.00	0.00	0	0	0	-5	0	0	0.01	0.00	0.01	0.00	-0.18	
0.375	0.00	0.00	0	0	0	-6	0	0	0.01	0.00	0.01	0.00	-0.19	
0.393	0.00	0.00	0	0	0	-6	0	0	0.01	0.00	0.01	0.00	-0.21	
0.411	0.00	0.00	0	0	0	-7	0	0	0.01	0.00	0.01	0.00	-0.22	
0.429	0.00	0.00	0	0	0	-7	0	0	0.01	0.00	0.01	0.00	-0.23	
0.446	0.00	0.00	0	0	0	-7	0	0	0.01	0.00	0.01	0.00	-0.24	
0.464	0.00	0.00	0	0	0	-8	0	0	0.01	0.00	0.01	0.00	-0.26	
0.482	0.00	0.00	0	0	0	-8	0	0	0.01	0.00	0.01	0.00	-0.27	
0.500	0.00	0.00	0	0	0	-8	0	0	0.02	0.00	0.02	0.00	-0.28	
0.518	0.00	0.00	0	0	0	-9	0	0	0.02	0.00	0.02	0.00	-0.29	
0.536	0.00	0.00	0	0	0	-9	0	0	0.02	0.00	0.02	0.00	-0.31	
0.554	0.00	0.00	0	0	0	-10	0	0	0.02	0.00	0.02	0.00	-0.32	
0.571	0.00	0.00	0	0	0	-10	0	0	0.02	0.00	0.02	0.00	-0.33	
0.589	0.00	0.00	0	0	0	-10	0	0	0.02	0.00	0.02	0.00	-0.34	
0.607	0.00	0.00	0	0	0	-11	0	0	0.02	0.00	0.02	0.00	-0.35	
0.625	0.00	0.00	0	0	0	-11	0	0	0.02	0.00	0.02	0.00	-0.37	
0.643	0.00	0.00	0	0	0	-12	0	0	0.02	0.00	0.02	0.00	-0.38	
0.661	0.00	0.00	0	0	0	-12	0	0	0.02	0.00	0.02	0.00	-0.39	
0.679	0.00	0.00	0	0	0	-12	0	0	0.02	0.00	0.02	0.00	-0.40	
0.696	0.00	0.00	0	0	0	-13	0	0	0.02	0.00	0.02	0.00	-0.42	
0.714	0.00	0.00	0	0	0	-13	0	0	0.02	0.00	0.02	0.00	-0.43	
0.732	0.00	0.00	0	0	0	-13	0	0	0.02	0.00	0.02	0.00	-0.44	
0.750	0.00	0.00	0	0	0	-14	0	0	0.02	0.00	0.02	0.00	-0.45	
0.768	0.00	0.00	0	0	0	-14	0	0	0.03	0.00	0.03	0.00	-0.47	
0.785	0.00	0.00	0	0	0	-15	0	0	0.03	0.00	0.03	0.00	-0.48	
0.804	0.00	0.00	0	0	0	-15	0	0	0.03	0.00	0.03	0.00	-0.49	
0.821	0.00	0.00	0	0	0	-15	0	0	0.03	0.00	0.03	0.00	-0.50	

HNTB BRIDGE DESIGN PROGRAM BDGS VERSION 2.9.1.0 PAGE 636
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Filename: C:\DOCUME~1\tgregory\LOCALS~1\Temp\BDGS_StlDsn\Stringer A.OUT

----- GIRDER 2 FLEXURAL FATIGUE STRESS SUMMARY ----------

NOTES:
- MOMENTS AND STRESSES ARE FACTORED
- DEAD LOAD STRESSES INCLUDE LATERAL FLANGE BENDING (IF APPLICABLE)
- STRESSES ARE BASED ON INPUT PLATE SIZES
- TENSION IS POSITIVE

			MAX FATIGUE I			MIN FATIGUE I								
SPAN.LOC	DEAD LOAD		LL+I	MLAT		LL+I	MLAT		TOP FLANGE			BOTTOM FLANGE		
FRAC	TOP FL (ksi)	BOT FL (ksi)	MZ (ft-k)	TOP (ft-k)	BOT	MZ (ft-k)	TOP (ft-k)	BOT	MAX (ksi)	MIN (ksi)	RANGE (ksi)	MAX (ksi)	MIN (ksi)	RANGE (ksi)
0.839	0.00	0.00	0	0	0	-16	0	0	0.03	0.00	0.03	0.00	-0.52	
0.857	0.00	0.00	0	0	0	-16	0	0	0.03	0.00	0.03	0.00	-0.53	
0.875	0.00	-0.01	0	0	0	-16	0	0	0.03	0.00	0.03	0.00	-0.54	
0.893	0.00	-0.01	0	0	0	-17	0	0	0.03	0.00	0.03	0.00	-0.55	
0.911	0.00	-0.01	0	0	0	-17	0	0	0.03	0.00	0.03	0.00	-0.57	
0.929	0.00	-0.01	0	0	0	-18	0	0	0.03	0.00	0.03	0.00	-0.58	
0.946	0.00	-0.01	0	0	0	-18	0	0	0.03	0.00	0.03	0.00	-0.59	
0.964	0.00	-0.01	0	0	0	-18	0	0	0.03	0.00	0.03	0.00	-0.60	
0.982	0.00	-0.01	0	0	0	-19	0	0	0.03	0.00	0.03	0.00	-0.61	
1.000	0.00	-0.01	0	0	0	-19	0	0	0.03	0.00	0.03	0.00	-0.63	
1.000	0.00	-0.01	0	0	0	-19	0	0	0.03	0.00	0.03	0.00	-0.63	
1.011	-0.38	0.48	11	0	0	-19	0	0	1.03	0.00	1.03	0.35	-1.13	1.48
1.015	-0.52	0.67	15	0	0	-19	0	0	0.95	0.00	0.95	0.48	-1.09	1.57
1.050	-1.64	2.10	47	0	0	-19	0	0	0.34	0.00		1.49	-0.80	2.29
1.100	-3.07	3.93	87	0	0	-18	0	0	0.44	-0.09		2.75	-0.59	3.33
1.150	-4.29	5.49	119	0	0	-18	0	0	0.61	-0.09		3.78	-0.58	4.35
1.189	-5.09	6.52	139	0	0	-18	0	0	0.72	-0.09		4.43	-0.57	5.00
1.200	-5.30	6.78	144	0	0	-18	0	0	0.74	-0.09		4.59	-0.57	5.15
1.211	-5.50	7.04	149	0	0	-18	0	0	0.77	-0.09		4.74	-0.56	5.31
1.250	-6.09	7.79	163	0	0	-18	0	0	0.84	-0.09		5.19	-0.56	5.74
1.277	-6.43	8.22	171	0	0	-17	0	0	0.88	-0.09		5.42	-0.55	5.98
1.300	-6.67	8.53	176	0	0	-17	0	0	0.90	-0.09		5.59	-0.55	6.13
1.334	-6.95	8.87	182	0	0	-17	0	0	0.93	-0.09		5.77	-0.54	6.31
1.341	-6.99	8.93	183	0	0	-17	0	0	0.94	-0.09		5.79	-0.54	6.33
1.350	-7.04	8.99	183	0	0	-17	0	0	0.94	-0.09		5.82	-0.54	6.36
1.400	-7.20	9.18	184	0	0	-17	0	0	0.95	-0.09		5.85	-0.55	6.41
1.406	-7.20	9.19	184	0	0	-18	0	0	0.95	-0.09		5.85	-0.56	6.41
1.412	-7.21	9.19	184	0	0	-18	0	0	0.95	-0.09		5.84	-0.57	6.41
1.450	-7.14	9.10	181	0	0	-20	0	0	0.93	-0.10		5.74	-0.62	6.36
1.471	-7.05	8.98	178	0	0	-20	0	0	0.91	-0.11		5.64	-0.65	6.29
1.500	-6.87	8.74	174	0	0	-22	0	0	0.89	-0.11		5.52	-0.69	6.21
1.550	-6.39	8.11	166	0	0	-24	0	0	0.85	-0.12		5.27	-0.76	6.03
1.600	-5.70	7.20	158	0	0	-26	0	0	0.81	-0.13		5.01	-0.83	5.83
1.650	-4.79	6.02	144	0	0	-28	0	0	0.74	-0.15		4.58	-0.90	5.47
1.658	-4.62	5.80	142	0	0	-29	0	0	0.73	-0.15		4.50	-0.91	5.40
1.700	-3.67	4.56	127	0	0	-30	0	0	0.65	0.00		4.03	-1.17	5.20
1.750	-2.33	2.82	107	0	0	-33	0	0	1.17	0.00	1.17	3.39	-1.66	5.05
1.751	-2.29	2.77	106	0	0	-33	0	0	1.19	0.00	1.19	3.37	-1.67	5.04
1.800	-0.78	0.81	87	0	0	-45	0	0	2.84	0.00	2.84	2.77	-2.88	5.64
1.823	0.01	-0.17	84	0	0	-51	0	0	0.40	0.00	0.40	2.66	-1.68	4.35
1.850	1.03	-1.43	72	0	0	-60	0	0	0.28	0.00	0.28	2.30	-1.98	4.29
1.895	2.86	-3.70	53	0	0	-78	0	0	0.14	0.00	0.14	1.70	-2.56	
1.900	3.05	-3.94	51	0	0	-80	0	0	0.14	0.00	0.14	1.64	-2.63	
1.950	5.30	-6.71	30	0	0	-102	0	0	0.18	-0.05	0.23	0.58	-3.35	
2.000	7.77	-9.76	14	0	0	-130	0	0	0.23	-0.02	0.26	0.46	-4.28	
2.000	7.77	-9.76	14	0	0	-130	0	0	0.23	-0.02	0.26	0.46	-4.28	
2.050	6.71	-8.45	30	0	0	-122	0	0	0.22	-0.05	0.27	0.99	-4.02	
2.100	5.74	-7.24	49	0	0	-115	0	0	0.20	-0.08	0.29	1.61	-3.78	
2.133	5.14	-6.49	61	0	0	-109	0	0	0.19	0.00	0.19	1.98	-3.59	
2.150	4.84	-6.13	67	0	0	-106	0	0	0.19	0.00	0.19	2.16	-3.49	
2.200	4.04	-5.12	85	0	0	-99	0	0	0.20	0.00	0.20	2.74	-3.28	6.02
2.250	3.31	-4.22	101	0	0	-93	0	0	0.32	0.00	0.32	3.24	-3.08	6.32
2.285	2.86	-3.65	111	0	0	-89	0	0	0.39	0.00	0.39	3.54	-2.94	6.48
2.300	2.67	-3.42	114	0	0	-87	0	0	0.42	0.00	0.42	3.65	-2.87	6.53
2.350	2.11	-2.72	125	0	0	-81	0	0	0.51	0.00	0.51	3.97	-2.67	6.64
2.400	1.64	-2.13	132	0	0	-78	0	0	0.57	0.00	0.57	4.19	-2.57	6.76

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RUN TIME: 08/07/2011 19:48:37.651 OUTPUT
Filename: C:\DOCUME~1\tgregory\LOCALS~1\Temp\BDGS_StlDsn\Stringer A.OUT

----- GIRDER 2 FLEXURAL FATIGUE STRESS SUMMARY ----------

NOTES:
- MOMENTS AND STRESSES ARE FACTORED
- DEAD LOAD STRESSES INCLUDE LATERAL FLANGE BENDING (IF APPLICABLE)
- STRESSES ARE BASED ON INPUT PLATE SIZES
- TENSION IS POSITIVE

			MAX FATIGUE I			MIN FATIGUE I								
SPAN.LOC	DEAD LOAD		LL+I	MLAT		LL+I	MLAT		TOP FLANGE			BOTTOM FLANGE		
FRAC	TOP FL (ksi)	BOT FL (ksi)	MZ (ft-k)	TOP (ft-k)	BOT	MZ (ft-k)	TOP (ft-k)	BOT	MAX (ksi)	MIN (ksi)	RANGE (ksi)	MAX (ksi)	MIN (ksi)	RANGE (ksi)
2.450	1.25	-1.64	136	0	0	-72	0	0	0.61	0.00	0.61	4.31	-2.38	6.69
2.500	0.94	-1.25	137	0	0	-70	0	0	0.64	0.00	0.64	4.34	-2.31	6.66
2.518	0.85	-1.13	137	0	0	-69	0	0	0.64	0.00	0.64	4.35	-2.29	6.64
2.544	0.75	-0.99	136	0	0	-68	0	0	0.65	0.00	0.65	4.34	-2.25	6.59
2.550	0.72	-0.96	136	0	0	-68	0	0	0.65	0.00	0.65	4.33	-2.24	6.57
2.600	0.58	-0.78	133	0	0	-66	0	0	0.64	0.00	0.64	4.22	-2.18	6.39
2.650	0.53	-0.70	127	0	0	-64	0	0	0.61	0.00	0.61	4.02	-2.11	6.12

Made: TRG 8/
Checked: KDG 8/8/11
BkChked: TRG 8/8/11

File: N:\49633\Bridges\Design\Final Design\Unit 2\Stringers\Stringer A_080711.rpt 8/7/2011, 7:55:21PM

18.418	3.96462748	-20.58929652	0.08626257	2.92360418	7166.95461151	9.67094963
18.418	3.96462749	-20.58929618	0.08626256	2.92360402	7166.95461151	9.67094963
18.450	3.99509951	-20.97652865	0.08807762	2.98396244	7312.21860757	-1.62857049
18.450	3.99509951	-20.97652830	0.08807761	2.98396227	7312.21860757	-1.62857088
18.451	3.99371039	-20.98419561	0.08812336	2.98542479	7315.54517953	-2.05442052
18.475	3.93062683	-21.02124389	0.08861844	2.99997564	7344.43519888	-10.47449734
18.475	3.93063313	-21.02075275	0.08860267	2.99974382	7344.43519888	-10.47449734
18.500	3.78487788	-20.83529829	0.08834967	2.98804132	7304.98293306	-19.45892010
18.500	3.78487789	-20.83529775	0.08834965	2.98804106	7304.98293306	-19.45892010
18.550	3.20361813	-20.05073553	0.08720967	2.93607122	7127.95914686	-9.50849359
18.550	3.20361814	-20.05073500	0.08720966	2.93607098	7127.95914686	-9.50849359
18.600	2.28953082	-18.42618276	0.08344962	2.78923793	6695.97638734	-27.33726815
18.600	2.28953084	-18.42618225	0.08344960	2.78923770	6695.97638734	-27.33726815
18.650	1.05784442	-15.88206302	0.07658739	2.53194048	5974.54204728	-45.19686063
18.650	1.05784444	-15.88206255	0.07658738	2.53194027	5974.54204728	-45.19686063
18.700	-0.49389234	-12.42883280	0.06669861	2.16642880	4968.14535715	-62.99911454
18.700	-0.49389232	-12.42883239	0.06669859	2.16642863	4968.14535715	-62.99911454
18.737	-1.85541015	-9.46118912	0.05838792	1.87400695	4100.45268983	-62.45746243
18.750	-2.40549864	-8.37148923	0.05556993	1.78388467	3785.47430749	-66.49473550
18.750	-2.40549863	-8.37148888	0.05556992	1.78388453	3785.47430749	-66.49473550
18.800	-4.68750637	-3.77226673	0.04357964	1.39993013	2451.01459449	-79.23525847
18.800	-4.68750635	-3.77226646	0.04357963	1.39993002	2451.01459449	-79.23525847
18.850	-7.33818575	1.46206415	0.03024132	0.97211476	942.84152028	-90.48085420
18.850	-7.33818574	1.46206434	0.03024132	0.97211468	942.84152028	-90.48085420
18.900	-10.55417715	6.33370502	0.02169995	0.69801982	-306.24331630	-129.23219048
18.900	-10.55417714	6.33370515	0.02169995	0.69801977	-306.24331630	-129.23219048
18.950	-14.19243778	11.57266916	0.01345708	0.43316211	-1612.60954778	-135.90642984
18.950	-14.19243778	11.57266924	0.01345708	0.43316207	-1612.60954778	-135.90642984
18.990	-17.40540042	15.88473507	0.00780546	0.25137792	-2642.83026277	-45.73668371
19.000	-18.33983199	16.73967386	0.00821190	0.26450389	-2785.53249829	-46.40407587

HNTB BRIDGE DESIGN PROGRAM BDGS VERSION 2.9.1.0 PAGE 225
RUN TIME: 08/07/2011 19:48:37.651 OUTPUT
Filename: C:\DOCUME~1\tgregory\LOCALS~1\Temp\BDGS_StlDsn\Stringer A.OUT

* * * LRFD STRESS SUMMARY (Based on Input Section)* * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN.LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
19.000	-18.33983198	16.73967391	0.00821190	0.26450386	-2785.53249829	63.75340367
19.010	-17.30274043	15.70816564	0.00818168	0.26356628	-2594.60504663	62.95764759
19.050	-13.60064463	11.08766915	0.01288437	0.41527852	-1544.01880195	58.62765080
19.050	-13.60064462	11.08766922	0.01288437	0.41527849	-1544.01880195	58.62765080
19.100	-9.38819499	5.29722396	0.02095550	0.67586587	-138.78713530	145.33827095
19.100	-9.38819498	5.29722406	0.02095550	0.67586582	-138.78713530	145.33827095
19.150	-5.60293203	-0.12327432	0.02930475	0.94576847	1209.66517304	140.00770465
19.150	-5.60293202	-0.12327415	0.02930474	0.94576839	1209.66517304	140.00770465
19.200	-2.33127434	-5.61059289	0.04060650	1.31136930	2691.13735015	99.42136511
19.200	-2.33127433	-5.61059264	0.04060649	1.31136920	2691.13735015	99.42136511
19.215	-1.44952195	-7.36387595	0.04505009	1.45516017	3198.47012666	97.22878041
19.250	0.38687749	-11.47859370	0.05665994	1.86804963	4416.20970463	105.26797705
19.250	0.38687751	-11.47859337	0.05665993	1.86804948	4416.20970463	105.26797705
19.300	2.69026911	-17.01924396	0.07313067	2.47569301	6077.60815882	89.08798436
19.300	2.69026912	-17.01924354	0.07313066	2.47569282	6077.60815882	89.08798436
19.350	4.64803034	-21.73260313	0.08711606	2.99257230	7491.70417933	72.53921346
19.350	4.64803035	-21.73260265	0.08711604	2.99257207	7491.70417933	72.53921346
19.400	6.26740313	-25.57997691	0.09838898	3.41120287	8641.66420743	55.63939324
19.400	6.26740313	-25.57997637	0.09838896	3.41120261	8641.66420743	55.63939323
19.424	6.92150191	-27.09467965	0.10272992	3.57357581	9090.88590682	47.48291377
19.424	6.92150191	-27.09467909	0.10272990	3.57357554	9090.88590682	47.48291377
19.450	7.55647432	-28.51841345	0.10669708	3.72326505	9508.78976275	38.42586868
19.450	7.55647433	-28.51841287	0.10669706	3.72326477	9508.78976275	38.42586868
19.500	8.52086515	-30.51751038	0.11186515	3.92292175	10079.82479216	20.90861978
19.500	8.52086515	-30.51750978	0.11186513	3.92292146	10079.82479216	20.90861978
19.550	9.15447685	-31.60636960	0.11408044	4.01607968	10367.38620023	29.15112808
19.550	9.15447685	-31.60636899	0.11408042	4.01607938	10367.38620023	29.15112808
19.600	9.37803930	-32.18536332	0.11578571	4.08187384	10545.63297262	12.00936932
19.600	9.37803930	-32.18536270	0.11578569	4.08187354	10545.63297261	12.00936933
19.608	9.38382395	-32.19362029	0.11576184	4.08176847	10546.14602454	9.22092852
19.650	9.27934910	-31.80703988	0.11426737	4.03216554	10419.92851232	-5.45403639
19.650	9.27934910	-31.80703928	0.11426735	4.03216524	10419.92851232	-5.45403639
19.700	8.86588019	-30.43167073	0.10929453	3.85928359	9972.93663643	-23.17362585
19.700	8.86588019	-30.43167016	0.10929451	3.85928331	9972.93663643	-23.17362585
19.750	8.14222186	-28.03418874	0.10072580	3.55845196	9193.69074510	-41.13059458
19.750	8.14222186	-28.03418821	0.10072579	3.55845171	9193.69074510	-41.13059458
19.800	7.11281560	-24.59029822	0.08842486	3.12504901	8071.55244085	-131.46066892
19.800	7.11281560	-24.59029776	0.08842485	3.12504878	8071.55244085	-131.46066892
19.850	5.78102259	-20.08120232	0.07228896	2.55553870	6598.27090317	-149.80282998
19.850	5.78102260	-20.08120195	0.07228895	2.55553852	6598.27090317	-149.80282998
19.900	4.15023549	-14.48796243	0.05221473	1.84635825	4765.52835643	-168.28860036
19.900	4.15023549	-14.48796216	0.05221473	1.84635812	4765.52835643	-168.28860036
19.950	2.22269580	-7.79749269	0.02813436	0.99509871	2567.55194753	-186.89020268
19.950	2.22269580	-7.79749254	0.02813436	0.99509864	2567.55194753	-186.89020268
19.990	0.47959766	-1.68887054	0.00609885	0.21575504	556.56397813	-201.74237555
19.998	0.07102711	-0.25031258	0.00090408	0.03198392	82.50432939	-205.01546826
19.998	0.07102711	-0.25031258	0.00090408	0.03198392	82.50432940	-205.01546827
19.999	0.03877709	-0.13666482	0.00049361	0.01746254	45.04606366	-205.26535657
19.999	0.03877709	-0.13666482	0.00049361	0.01746254	45.04606365	-205.26535657
20.000	0.01934505	-0.06818275	0.00024627	0.00871227	22.47396067	-205.41528952
20.000	0.01934505	-0.06818275	0.00024627	0.00871227	22.47396066	-205.41528955
20.000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-106.66541155

HNTB BRIDGE DESIGN PROGRAM BDGS VERSION 2.9.1.0 PAGE 226
RUN TIME: 08/07/2011 19:48:37.651 OUTPUT
Filename: C:\DOCUME~1\tgregory\LOCALS~1\Temp\BDGS_StlDsn\Stringer A.OUT
LOAD COMBINATION 4 STRENGTH-I MAX-LF DC + DW + LL (MIN MOM)
---LOAD FACTORS USED (IMPACT NOT INCLUDED IN FACTORS)---
NU FACTOR 1.0500000

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MAX TENS. STRESS BOTTOM FL.

File: N:\49633\Bridges\Design\Final Design\Unit 2\Stringers\Stringer A_080711.rpt 8/7/2011, 7:55:21PM

A-DEAD LOADS	
GIRDER: SELF WEIGHT	1.2500000
GIRDER: USER DEFINED	1.2500000
SLAB+HAUNCH: SELF WEIGHT	1.2500000
SLAB+HAUNCH: USER DEFINED	1.2500000
REMOVABLE FORMS:	1.2500000
ADDITIONAL A-DEAD LOAD	1.2500000
A-DEAD LOAD SUPPORT SETTLEMENT	1.2500000
B-DEAD LOADS	
BARRIER	1.2500000
INTEGRAL WEARING SURFACE	1.2500000
FUTURE WEARING SURFACE	1.5000000
FORM REMOVAL	1.2500000
UTILITIES	1.5000000
ADDITIONAL B-DEAD LOAD	1.2500000
B-DEAD LOAD SUPPORT SETTLEMENT	1.2500000
B-DEAD LOAD SIDEWALK	1.2500000
LIVE LOADS	
AUXILIARY LIVE LOAD	1.7500000
MAXIMUM TRUCK MOMENT	0.0000000
MINIMUM TRUCK MOMENT	1.7500000
MAXIMUM TRUCK SHEAR	0.0000000
MINIMUM TRUCK SHEAR	0.0000000
DOUBLE TRUCK	1.7500000
MAXIMUM LANE MOMENT	0.0000000
MINIMUM LANE MOMENT	1.7500000
MAXIMUM LANE SHEAR	0.0000000
MINIMUM LANE SHEAR	0.0000000
MAXIMUM FATIGUE MOMENT	0.0000000
MINIMUM FATIGUE MOMENT	0.0000000
MAXIMUM FATIGUE SHEAR	0.0000000
MINIMUM FATIGUE SHEAR	0.0000000
MAXIMUM PEDESTRIAN MOMENT	0.0000000
MINIMUM PEDESTRIAN MOMENT	0.0000000
MAXIMUM PEDESTRIAN SHEAR	0.0000000
MINIMUM PEDESTRIAN SHEAR	0.0000000

* * * LRFD STRESS SUMMARY (Based on Input Section)* * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN.LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
0.000	0.00000000	0.00000000	0.00000000	0.00000000	-0.00000002	-0.00000001
0.018	-0.00039472	0.00729792	-0.00009124	-0.00417196	-2.65572678	-39.11973588
0.036	-0.00101909	0.01883174	-0.00024800	-0.01076511	-6.85280352	-39.13750985
0.054	-0.00164455	0.03037122	-0.00042022	-0.01736102	-11.05178920	-39.15533133
0.071	-0.00227111	0.04191637	-0.00060792	-0.02395969	-15.25269018	-39.17322117
0.089	-0.00289882	0.05346723	-0.00081110	-0.03056112	-19.45551421	-39.19119368
0.107	-0.00352776	0.06502494	-0.00102979	-0.03716594	-23.66066714	-39.21664157
0.125	-0.00415806	0.07659064	-0.00126402	-0.04377478	-27.86855549	-39.24220923
0.143	-0.00478976	0.08816440	-0.00151380	-0.05038763	-32.07919310	-39.26789596
0.161	-0.00548478	0.10089087	-0.00179958	-0.05765886	-36.70912361	-94.17825322
0.179	-0.00699364	0.12865828	-0.00238073	-0.07352827	-46.81241547	-94.20425155
0.196	-0.00850414	0.15643399	-0.00299908	-0.08940170	-56.91850519	-94.23042573
0.214	-0.01001638	0.18421811	-0.00365464	-0.10527916	-67.02741261	-94.25679778
0.232	-0.01153045	0.21201073	-0.00434741	-0.12116066	-77.13915987	-94.28337139
0.250	-0.01304648	0.23981200	-0.00507743	-0.13704620	-87.25376946	-94.31017044
0.268	-0.01456457	0.26762202	-0.00584470	-0.15293577	-97.37126624	-94.33721003
0.286	-0.01608488	0.29544094	-0.00664924	-0.16882939	-107.49167698	-94.36450459
0.304	-0.01760753	0.32326890	-0.00749105	-0.18472706	-117.61502965	-94.39206589
0.321	-0.01913267	0.35110606	-0.00837016	-0.20062878	-127.74135398	-94.41991219
0.339	-0.02066047	0.37895258	-0.00928658	-0.21653455	-137.87068143	-94.44806158
0.357	-0.02219109	0.40680863	-0.01024032	-0.23244438	-148.00304495	-94.47653157
0.375	-0.02372471	0.43467440	-0.01123140	-0.24835827	-158.13848015	-94.50533570
0.393	-0.02526151	0.46255008	-0.01225984	-0.26427623	-168.27702360	-94.53448856
0.411	-0.02680168	0.49043587	-0.01332564	-0.28019825	-178.41871371	-94.56400685
0.429	-0.02834544	0.51833197	-0.01442882	-0.29612434	-188.56359019	-94.59390593
0.446	-0.02989299	0.54623862	-0.01556939	-0.31205451	-198.71169489	-94.62420105

HNTB BRIDGE DESIGN PROGRAM BDGS VERSION 2.9.1.0 PAGE 227
RUN TIME: 08/07/2011 19:48:37.651 OUTPUT
Filename: C:\DOCUME~1\tgregory\LOCALS~1\Temp\BDGS_StlDsn\Stringer A.OUT

* * * LRFD STRESS SUMMARY (Based on Input Section)* * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN.LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
0.464	-0.03144456	0.57415602	-0.01674738	-0.32798875	-208.86307113	-94.65490739
0.482	-0.03300038	0.60208442	-0.01796279	-0.34392708	-219.01776377	-94.68604356
0.500	-0.03456068	0.63002407	-0.01921564	-0.35986949	-229.17581983	-94.71762023
0.518	-0.03612571	0.65797521	-0.02050594	-0.37581599	-239.33728737	-94.74966022
0.536	-0.03769574	0.68593812	-0.02183371	-0.39176658	-249.50221690	-94.78217152
0.554	-0.03927103	0.71391293	-0.02319896	-0.40772119	-259.67061419	-94.81425896
0.571	-0.04085183	0.74189980	-0.02460169	-0.42367974	-269.84248056	-94.84685130
0.589	-0.04243844	0.76989897	-0.02604193	-0.43964223	-280.01785914	-94.87996444
0.607	-0.04403114	0.79791071	-0.02751968	-0.45560862	-290.19679509	-94.91361421
0.625	-0.04563024	0.82593530	-0.02903495	-0.47157892	-300.37933581	-94.94781897
0.643	-0.04723605	0.85397302	-0.03058777	-0.48755310	-310.56553128	-94.98259508
0.661	-0.04884889	0.88202419	-0.03217814	-0.50353116	-320.75543354	-95.01795310
0.679	-0.05046908	0.91008911	-0.03380607	-0.51951308	-330.94909645	-95.05391231
0.696	-0.05209697	0.93816810	-0.03547158	-0.53549886	-341.14657610	-95.09048852
0.714	-0.05373290	0.96626148	-0.03717468	-0.55148847	-351.34793074	-94.74966022
0.732	-0.05537723	0.99436960	-0.03891538	-0.56748192	-361.55322035	-95.16554933
0.750	-0.05703032	1.02249281	-0.04069370	-0.58347918	-371.76250726	-95.20406668
0.768	-0.05869255	1.05063146	-0.04250965	-0.59948027	-381.97585563	-95.24326267
0.786	-0.06036430	1.07878593	-0.04436324	-0.61548515	-392.19333162	-95.28315192
0.804	-0.06204596	1.10695660	-0.04625449	-0.63149383	-402.41500318	-95.32375176
0.821	-0.06373793	1.13514384	-0.04818340	-0.64750631	-412.64094036	-95.36507714
0.839	-0.06544063	1.16334807	-0.05014999	-0.66352256	-422.87121512	-95.40714304
0.857	-0.06715447	1.19156969	-0.05215427	-0.67954259	-433.10590126	-95.44996605
0.875	-0.06887988	1.21980912	-0.05419626	-0.69556639	-443.34507447	-95.49356231

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STR A w/FORMS

20.000	0.01828471	-0.03179003	0.00007661	0.00180142	8.11832778	-70.96342456
20.000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-71.00482129

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE					BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
0.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.018	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.036	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.054	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.071	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.089	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.107	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.125	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.143	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.161	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.179	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.196	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.214	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.232	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.250	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.268	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE					BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
0.286	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.304	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.321	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.339	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.357	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.375	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.393	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.411	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.429	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.446	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.464	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.482	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.500	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.518	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.536	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.554	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.571	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.589	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.607	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.625	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.643	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.661	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.679	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.696	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.714	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.732	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.750	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.768	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.786	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.804	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
0.821	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
0.839	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
0.857	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
0.875	9.7	9.7		11.1000	0.8700	0.01	9.7	9.7		11.1000	0.8700	0.03
0.893	9.7	9.7		11.1000	0.8700	0.01	9.7	9.7		11.1000	0.8700	0.03
0.911	9.7	9.7		11.1000	0.8700	0.01	9.7	9.7		11.1000	0.8700	0.03
0.929	9.7	9.7		11.1000	0.8700	0.01	9.7	9.7		11.1000	0.8700	0.03
0.946	9.7	9.7		11.1000	0.8700	0.01	9.7	9.7		11.1000	0.8700	0.03
0.964	9.7	9.7		11.1000	0.8700	0.01	9.7	9.7		11.1000	0.8700	0.03
0.982	9.7	9.7		11.1000	0.8700	0.01	9.7	9.7		11.1000	0.8700	0.03
1.000	9.7	9.7		11.1000	0.8700	0.01	9.7	9.7		11.1000	0.8700	0.03
1.000	9.7	9.7		11.1000	0.8700	0.01	9.7	9.7		11.1000	0.8700	0.04
1.013	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.05
1.017	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.05
1.050	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.14
1.100	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.27
1.150	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.37
1.200	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.45
1.215	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.47
1.240	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.50
1.250	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.51
1.300	9.7	9.7		11.1000	0.8700	0.31	9.7	9.7		11.1000	0.8700	0.56
1.314	9.7	9.7		11.1000	0.8700	0.31	9.7	9.7		11.1000	0.8700	0.57
1.350	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.58
1.379	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.59
1.388	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.59
1.400	9.7	9.7		11.1000	0.8700	0.34	9.7	9.7		11.1000	0.8700	0.59
1.421	9.7	9.7		11.1000	0.8700	0.34	9.7	9.7		11.1000	0.8700	0.59
1.450	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.58
1.461	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.58
1.500	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.57
1.536	9.7	9.7		11.1000	0.8700	0.31	9.7	9.7		11.1000	0.8700	0.55

1.550	9.7	9.7	11.1000	0.8700	0.30	9.7	9.7	11.1000	0.8700	0.54
1.600	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.49

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE					BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
1.650	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.43
1.700	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.35
1.748	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.27
1.750	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.26
1.800	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.19
1.841	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.16
1.841	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.14
1.850	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.12
1.854	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.13
1.900	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.26
1.950	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.42
2.000	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.59
2.000	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.56
2.033	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.53
2.050	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.51
2.100	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.47
2.150	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.44
2.200	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.41
2.250	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.38
2.300	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.36
2.350	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.33
2.400	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.36
2.423	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.36
2.450	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.35
2.500	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.35
2.550	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.35
2.600	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.35
2.618	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.36
2.650	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.32
2.700	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.34
2.750	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.37
2.800	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.40
2.850	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.42
2.900	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.46
2.919	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.47
2.950	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.48
2.952	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.48
3.000	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.54
3.000	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.54
3.050	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.36
3.100	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.21
3.143	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.13
3.143	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.16
3.146	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.15
3.150	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.14
3.200	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.22
3.239	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.28
3.250	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.30
3.300	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.38
3.350	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.44
3.382	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.47
3.400	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.49
3.450	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.51
3.486	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.52
3.500	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.52
3.550	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.51
3.567	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.50
3.600	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.48
3.650	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.44
3.660	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.43
3.664	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.42
3.700	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.38
3.716	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.35

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE					BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
3.750	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.29
3.767	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.26
3.800	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.19
3.818	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.21
3.829	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
3.829	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.15
3.836	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.14
3.850	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.16
3.900	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.25
3.950	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.39
4.000	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.57

4.000	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.57
4.050	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.48
4.052	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.48
4.100	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.42
4.108	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.41
4.150	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.36
4.200	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.31
4.250	9.7	9.7	11.1000	0.8700	0.09	9.7	9.7	11.1000	0.8700	0.27
4.300	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.23
4.350	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.25
4.380	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.27
4.400	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.28
4.430	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.28
4.430	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.28
4.450	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.29
4.500	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.30
4.550	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.31
4.554	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.30
4.600	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.30
4.650	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.27
4.673	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.26
4.700	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.24
4.720	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.25
4.750	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.26
4.779	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.30
4.779	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.18
4.800	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.18
4.850	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.21
4.900	9.7	9.7	11.1000	0.8700	0.07	9.7	9.7	11.1000	0.8700	0.26
4.950	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.36
5.000	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.46
5.000	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.39
5.001	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.39
5.050	9.7	9.7	11.1000	0.8700	0.09	9.7	9.7	11.1000	0.8700	0.31
5.100	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.22
5.150	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.18
5.164	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.17
5.164	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.28
5.200	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.25
5.250	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.23
5.295	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.27
5.300	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.28
5.350	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.31
5.352	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.31
5.400	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.34
5.450	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.35
5.479	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.35
5.500	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.35
5.550	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.35
5.600	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.33
5.623	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.32
5.650	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.30

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) ----------

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
5.700	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.26
5.750	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
5.753	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
5.794	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.25
5.794	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.16
5.800	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.16
5.850	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.20
5.900	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.24
5.916	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.26
5.950	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.32
5.973	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.37
6.000	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.42
6.000	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.43
6.050	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.32
6.100	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.25
6.117	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.23
6.150	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.20
6.174	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.18
6.200	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.16
6.224	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.17
6.224	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.25
6.230	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.24
6.244	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.23
6.250	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.23
6.286	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.23
6.300	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.25
6.350	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.29
6.400	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.31
6.450	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.33
6.496	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.33
6.500	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.33
6.550	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.33
6.585	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.32

6.600	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.31
6.609	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.31
6.650	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.28
6.700	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.24
6.750	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.23
6.769	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.24
6.769	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.17
6.800	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.17
6.850	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.21
6.900	9.7	9.7	11.1000	0.8700	0.09	9.7	9.7	11.1000	0.8700	0.25
6.917	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.27
6.950	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.34
7.000	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.43
7.000	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.43
7.050	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.32
7.100	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.25
7.150	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.20
7.200	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.16
7.207	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.16
7.207	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.25
7.230	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.23
7.250	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.22
7.300	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.26
7.350	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.30
7.400	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.33
7.450	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.35
7.500	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.35
7.535	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.35
7.538	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.35
7.550	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.35

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) ----------

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
7.600	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.34
7.650	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.31
7.700	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.27
7.750	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.24
7.800	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.19
7.829	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.18
7.850	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.19
7.852	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.20
7.864	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.21
7.864	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.13
7.900	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.20
7.950	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.29
8.000	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.38
8.000	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.35
8.050	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.29
8.100	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.25
8.150	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.22
8.200	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.20
8.202	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.20
8.250	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.19
8.300	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.18
8.350	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.20
8.400	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.21
8.450	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.22
8.500	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.21
8.550	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.21
8.568	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.21
8.597	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.20
8.600	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.20
8.650	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.23
8.700	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.27
8.750	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.30
8.800	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.34
8.850	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.38
8.858	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.38
8.900	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.42
8.905	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.43
8.950	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.47
8.996	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.52
9.000	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.53
9.000	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.53
9.029	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.42
9.050	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.36
9.100	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.21
9.150	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.12
9.156	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.13
9.156	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.17
9.194	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.18
9.200	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.19
9.250	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.27
9.270	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.31
9.300	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.35
9.350	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.41
9.400	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.46
9.450	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.48

9.476	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.49
9.483	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.49
9.500	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.49
9.550	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.49
9.600	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.46
9.640	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.43
9.650	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.42
9.700	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.37

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
9.716	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.34
9.750	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.29
9.800	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.28
9.810	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.29
9.810	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.18
9.850	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.23
9.900	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.31
9.922	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.35
9.950	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.41
10.000	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.57
10.000	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.82
10.050	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.56
10.095	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.47
10.100	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.46
10.150	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.37
10.177	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.33
10.200	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.30
10.250	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.25
10.252	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.25
10.252	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.38
10.300	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.31
10.350	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.35
10.400	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.38
10.401	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.38
10.450	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.40
10.500	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.41
10.501	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.41
10.550	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.40
10.580	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.39
10.600	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.38
10.650	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.35
10.662	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.34
10.700	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.34
10.749	9.7	9.7		11.1000	0.8700	0.34	9.7	9.7		11.1000	0.8700	0.41
10.749	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.27
10.750	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.27
10.800	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.32
10.850	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.40
10.887	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.46
10.900	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.49
10.909	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.51
10.922	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.53
10.934	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.55
10.946	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.60
10.950	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.61
11.000	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.83
11.000	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.59
11.050	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.41
11.100	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.30
11.150	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.22
11.175	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.18
11.180	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.17
11.180	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.29
11.200	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.26
11.250	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.31
11.300	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.40
11.350	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.46
11.359	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.47
11.400	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.50
11.450	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.52
11.474	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.53
11.483	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.53
11.500	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.53

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
11.550	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.52
11.600	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.48
11.650	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.43
11.700	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.36
11.753	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.27

11.786	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.23
11.786	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.20
11.800	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.17
11.850	9.7	9.7	11.1000	0.8700	0.09	9.7	9.7	11.1000	0.8700	0.23
11.897	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.32
11.900	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.32
11.950	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.47
12.000	9.7	9.7	11.1000	0.8700	0.31	9.7	9.7	11.1000	0.8700	0.66
12.000	9.7	9.7	11.1000	0.8700	0.31	9.7	9.7	11.1000	0.8700	0.75
12.050	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.60
12.100	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.49
12.150	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.39
12.200	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.31
12.216	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.29
12.216	9.7	9.7	11.1000	0.8700	0.40	9.7	9.7	11.1000	0.8700	0.63
12.250	9.7	9.7	11.1000	0.8700	0.34	9.7	9.7	11.1000	0.8700	0.57
12.300	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.50
12.350	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.36
12.400	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.40
12.450	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.42
12.500	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.42
12.502	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.42
12.550	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.42
12.600	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.40
12.650	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.36
12.651	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.35
12.669	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.34
12.687	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.31
12.700	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.30
12.705	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.29
12.750	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.27
12.787	9.7	9.7	11.1000	0.8700	0.27	9.7	9.7	11.1000	0.8700	0.31
12.787	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.21
12.800	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.23
12.850	9.7	9.7	11.1000	0.8700	0.09	9.7	9.7	11.1000	0.8700	0.31
12.900	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.41
12.950	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.56
13.000	9.7	9.7	11.1000	0.8700	0.29	9.7	9.7	11.1000	0.8700	0.78
13.000	9.7	9.7	11.1000	0.8700	0.29	9.7	9.7	11.1000	0.8700	0.76
13.050	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.52
13.100	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.40
13.150	9.7	9.7	11.1000	0.8700	0.09	9.7	9.7	11.1000	0.8700	0.30
13.200	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.22
13.210	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.20
13.210	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.30
13.250	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.26
13.300	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.31
13.350	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.36
13.400	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.40
13.450	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.42
13.500	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.43
13.550	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.42
13.600	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.40
13.650	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.36
13.700	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.30
13.750	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.25
13.791	9.7	9.7	11.1000	0.8700	0.27	9.7	9.7	11.1000	0.8700	0.30
13.791	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.20

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
13.800	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.21
13.850	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.30
13.900	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.40
13.950	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.56
14.000	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.76
14.000	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.79
14.050	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.57
14.100	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.41
14.150	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.31
14.200	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.22
14.211	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.21
14.211	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.31
14.250	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.26
14.300	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.30
14.350	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.35
14.370	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.37
14.400	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.39
14.419	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.40
14.450	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.42
14.467	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.42
14.495	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.42
14.500	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.42
14.516	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.42
14.550	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.41
14.600	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.39
14.650	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.35
14.700	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.29

14.750	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.28
14.778	9.7	9.7	11.1000	0.8700	0.29	9.7	9.7	11.1000	0.8700	0.33
14.778	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.22
14.800	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.24
14.850	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.33
14.900	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.43
14.950	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.55
15.000	9.7	9.7	11.1000	0.8700	0.31	9.7	9.7	11.1000	0.8700	0.78
15.000	9.7	9.7	11.1000	0.8700	0.31	9.7	9.7	11.1000	0.8700	0.96
15.050	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.68
15.100	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.48
15.150	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.35
15.159	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.24
15.159	9.7	9.7	11.1000	0.8700	0.27	9.7	9.7	11.1000	0.8700	0.36
15.200	9.7	9.7	11.1000	0.8700	0.27	9.7	9.7	11.1000	0.8700	0.36
15.250	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.28
15.300	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.33
15.350	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.39
15.400	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.43
15.450	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.46
15.468	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.46
15.500	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.46
15.550	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.45
15.600	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.43
15.650	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.38
15.700	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.31
15.750	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.30
15.777	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.36
15.777	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.24
15.800	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.27
15.850	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.38
15.900	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.51
15.950	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.70
16.000	9.7	9.7	11.1000	0.8700	0.35	9.7	9.7	11.1000	0.8700	0.97
16.000	9.7	9.7	11.1000	0.8700	0.35	9.7	9.7	11.1000	0.8700	0.94

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) ----------

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
16.026	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.81
16.050	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.64
16.098	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.50
16.100	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.49
16.150	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.36
16.170	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.32
16.200	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.25
16.212	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.23
16.212	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.35
16.242	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.29
16.250	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.28
16.300	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.33
16.350	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.40
16.400	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.45
16.450	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.48
16.500	9.7	9.7		11.1000	0.8700	0.31	9.7	9.7		11.1000	0.8700	0.48
16.519	9.7	9.7		11.1000	0.8700	0.31	9.7	9.7		11.1000	0.8700	0.49
16.550	9.7	9.7		11.1000	0.8700	0.31	9.7	9.7		11.1000	0.8700	0.48
16.600	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.46
16.650	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.42
16.700	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.35
16.750	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.27
16.800	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.26
16.827	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.33
16.827	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.22
16.850	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.27
16.900	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.41
16.950	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.64
17.000	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.93
17.000	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.61
17.050	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.47
17.100	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.39
17.150	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.32
17.183	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.28
17.200	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.26
17.250	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.20
17.278	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.19
17.278	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.29
17.300	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.27
17.350	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.26
17.400	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.29
17.450	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.31
17.500	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.31
17.532	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.31
17.550	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.31
17.600	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.30
17.650	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.27
17.700	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.26
17.745	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.30
17.745	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.18

17.750	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.20
17.800	9.7	9.7	11.1000	0.8700	0.07	9.7	9.7	11.1000	0.8700	0.25
17.850	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.29
17.900	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.36
17.950	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.44
18.000	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.61
18.000	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.96
18.050	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.66
18.100	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.43
18.150	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.29
18.165	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.25
18.165	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.38
18.200	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.29

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) ----------

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
18.250	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.27
18.300	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.35
18.305	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.35
18.350	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.40
18.400	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.44
18.418	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.45
18.450	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.45
18.451	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.46
18.475	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.46
18.500	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.45
18.550	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.44
18.600	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.40
18.650	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.35
18.700	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.29
18.737	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.36
18.737	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.24
18.750	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.26
18.800	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.35
18.850	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.46
18.900	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.59
18.950	9.7	9.7		11.1000	0.8700	0.34	9.7	9.7		11.1000	0.8700	0.74
18.990	9.7	9.7		11.1000	0.8700	0.42	9.7	9.7		11.1000	0.8700	0.95
19.000	9.7	9.7		11.1000	0.8700	0.44	9.7	9.7		11.1000	0.8700	1.00
19.000	9.7	9.7		11.1000	0.8700	0.44	9.7	9.7		11.1000	0.8700	0.80
19.010	9.7	9.7		11.1000	0.8700	0.42	9.7	9.7		11.1000	0.8700	0.76
19.050	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.58
19.100	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.43
19.150	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.31
19.200	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.21
19.215	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.18
19.215	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.28
19.250	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.26
19.300	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.37
19.350	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.47
19.400	9.7	9.7		11.1000	0.8700	0.37	9.7	9.7		11.1000	0.8700	0.55
19.424	9.7	9.7		11.1000	0.8700	0.40	9.7	9.7		11.1000	0.8700	0.58
19.450	9.7	9.7		11.1000	0.8700	0.43	9.7	9.7		11.1000	0.8700	0.61
19.500	9.7	9.7		11.1000	0.8700	0.47	9.7	9.7		11.1000	0.8700	0.65
19.550	9.7	9.7		11.1000	0.8700	0.50	9.7	9.7		11.1000	0.8700	0.67
19.600	9.7	9.7		11.1000	0.8700	0.51	9.7	9.7		11.1000	0.8700	0.69
19.608	9.7	9.7		11.1000	0.8700	0.51	9.7	9.7		11.1000	0.8700	0.69
19.650	9.7	9.7		11.1000	0.8700	0.50	9.7	9.7		11.1000	0.8700	0.68
19.700	9.7	9.7		11.1000	0.8700	0.48	9.7	9.7		11.1000	0.8700	0.65
19.750	9.7	9.7		11.1000	0.8700	0.44	9.7	9.7		11.1000	0.8700	0.60
19.800	9.7	9.7		11.1000	0.8700	0.39	9.7	9.7		11.1000	0.8700	0.52
19.850	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.43
19.900	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.31
19.950	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.17
19.990	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.04
19.998	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
19.999	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
20.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
20.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00

----- GIRDER 2 FLEXURAL FATIGUE STRESS SUMMARY ----------

NOTES:
- MOMENTS AND STRESSES ARE FACTORED
- DEAD LOAD STRESSES INCLUDE LATERAL FLANGE BENDING (IF APPLICABLE)
- STRESSES ARE BASED ON INPUT PLATE SIZES
- TENSION IS POSITIVE

			MAX FATIGUE I			MIN FATIGUE I							
SPAN.LOC	DEAD LOAD		LL+I	MLAT		LL+I	MLAT		TOP FLANGE			BOTTOM FLANGE		
FRAC	TOP FL (ksi)	BOT FL (ksi)	MZ (ft-k)	TOP (ft-k)	BOT	MZ (ft-k)	TOP (ft-k)	BOT	MAX (ksi)	MIN (ksi)	RANGE (ksi)	MAX (ksi)	MIN (ksi)	RANGE (ksi)
0.000	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0.018	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.036	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	

MAX STRESS RATIO 0.69

STRESS = 34.5 KSI

STR. C

Made: KDG 8-8-11
Checked: TRG 8-8-11
BkChckd: KDG 8-8-11

File: N:\49633\Bridges\Design\Final Design\Unit 2\Stringers\SteelDsn\Stringer C.OUT 8/8/2011, 11:35:50PM

17.750	2.15313396	-4.48628015	0.01216903	0.46260030	1273.69754804	-47.10692347
17.800	0.74500756	-2.16027870	0.00737652	0.26179903	678.58122491	-55.38445894
17.800	0.74500756	-2.16027867	0.00737653	0.26179901	678.58122491	-55.38445894
17.827	-0.13823924	-0.70468348	0.00439176	0.13995121	304.66038478	-59.86423034

HNTB BRIDGE DESIGN PROGRAM BDGS VERSION 2.9.1.0 PAGE 624
RUN TIME: 08/08/2011 23:30:12.763 OUTPUT
Filename: N:\49633\Bridges\Design\Final Design\Unit 2\Stringers\SteelDsn\Stringer C.OUT

* * * LRFD STRESS SUMMARY (Based on Input Section) * * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN.LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
17.850	-0.94307417	0.59276254	0.00181939	0.05799116	-38.66426430	-63.64245170
17.850	-0.94307417	0.59276255	0.00181939	0.05799115	-38.66426430	-63.64245170
17.900	-3.09624348	3.89724750	-0.04167530	-0.48408838	-876.12043531	-71.84868483
17.900	-3.09624348	3.89724750	-0.04167530	-0.48408838	-876.12043531	-71.84868483
17.950	-5.64951572	7.72888879	-0.10818734	-1.25667327	-1829.70888459	-79.98964700
17.950	-5.64951572	7.72888879	-0.10818734	-1.25667327	-1829.70888459	-79.98964700
18.000	-8.52628563	12.01965155	-0.18175573	-2.11122268	-2894.26173463	-88.04429543

* * * LRFD STRESS SUMMARY (Based on Input Section) * * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN.LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
14.000	-8.43736153	10.37395632	-0.10075875	-1.17038494	-2295.37409983	48.73506538
18.024	-7.38553618	8.93833161	-0.08079012	-0.93843503	-1955.96791741	45.90380038
18.024	-7.38553618	8.93833161	-0.08079012	-0.93843503	-1955.96791741	45.90380038
18.050	-6.27863235	7.42110690	-0.05944161	-0.69045678	-1596.38586444	42.74723652
18.050	-6.27863235	7.42110690	-0.05944161	-0.69045678	-1596.38586444	42.74723652
18.100	-4.35130555	4.76555238	-0.02155278	-0.25035090	-965.13076141	36.71987967
18.100	-4.35130555	4.76555238	-0.02155278	-0.25035090	-965.13076141	36.71987967
18.150	-2.71196121	2.45427908	0.00133716	0.04273265	-403.85654320	30.66001845
18.150	-2.71196121	2.45427908	0.00133716	0.04273264	-403.85654320	30.66001845
18.156	-2.52973337	2.18833704	0.00177145	0.05661419	-337.08453498	29.87978127
18.156	-2.52973337	2.18833705	0.00177145	0.05661418	-337.08453498	29.87978127
18.200	-1.38320696	0.50811282	0.00453853	0.14509749	85.79396785	24.57235822
18.200	-1.38320696	0.50811284	0.00453853	0.14509748	85.79396785	24.57235822
18.222	-0.85566960	-0.26954703	0.00583448	0.18655798	282.17007726	21.82696566
18.222	-0.85566786	-0.26951317	0.00583343	0.18654394	282.17007726	21.82696566
18.250	-0.26856277	-1.13908366	0.00729421	0.23333977	502.37261519	18.46150000
18.250	-0.26856277	-1.13908361	0.00729421	0.23333975	502.37261519	18.46150001
18.252	-0.23381074	-1.19067682	0.00738126	0.23612941	515.45523166	18.24939790
18.300	0.63907530	-2.52219615	0.00974977	0.33554458	844.91566290	12.32965274
18.300	0.63907530	-2.52219609	0.00974977	0.33554456	844.91566290	12.32965274
18.350	1.33280661	-3.60117619	0.01173447	0.42213113	1112.58808667	6.18043966
18.350	1.33280661	-3.60117612	0.01173447	0.42213109	1112.58808667	6.18043966
18.400	1.81464994	-4.34440957	0.01307569	0.48095139	1296.25224532	-0.11074218
18.400	1.81464994	-4.34440950	0.01307569	0.48095135	1296.25224532	-0.11074218
18.450	2.09716167	-4.68696575	0.01337487	0.49920612	1367.80300479	-7.11279492
18.450	2.09716167	-4.68696567	0.01337487	0.49920607	1367.80300479	-7.11279492
18.488	2.17140157	-4.71514517	0.01312873	0.49309012	1362.72249117	-12.32999175
18.500	2.16942983	-4.68337968	0.01297236	0.43777258	1350.88259247	-13.97475800
18.500	2.16942982	-4.68337961	0.01297235	0.43777253	1350.88259247	-13.97475800
18.550	2.03015590	-4.33924469	0.01190541	0.44782487	1247.93943535	-20.75051374
18.550	2.03015590	-4.33924463	0.01190540	0.44782483	1247.93943535	-20.75051374
18.600	1.67793965	-3.66067210	0.01021436	0.38063815	1061.64853072	-27.43377955
18.600	1.67793965	-3.66067204	0.01021435	0.38063811	1061.64853072	-27.43377955
18.650	1.11149492	-2.65319303	0.00793581	0.28737108	794.43545926	-34.02398998
18.650	1.11149492	-2.65319298	0.00793581	0.28737105	794.43545926	-34.02398998
18.700	0.33079698	-1.31592384	0.00506677	0.16791121	445.94570860	-40.65984328
18.700	0.33079698	-1.31592381	0.00506677	0.16791120	445.94570860	-40.65984328
18.724	-0.11380873	-0.57878895	0.00356084	0.11454607	251.03847201	-43.85194893
18.750	-0.65647742	0.30069668	0.00182840	0.05883397	17.62306490	-47.32686582
18.750	-0.65647742	0.30069669	0.00182840	0.05883397	17.62306490	-47.32686582
18.800	-1.93567938	2.27655441	-0.01773533	-0.20600850	-487.91591308	-53.90231807
18.800	-1.93567938	2.27655441	-0.01773533	-0.20600850	-487.91591308	-53.90231807
18.850	-3.48884182	3.91306277	-0.02207172	-0.25637878	-808.27826162	-60.65102114
18.850	-3.48884182	3.91306277	-0.02207172	-0.25637878	-808.27826162	-60.65102114
18.900	-5.21957696	6.65333432	-0.06939383	-0.80605893	-1489.36971539	-67.89112481
18.900	-5.21957696	6.65333432	-0.06939383	-0.80605893	-1489.36971539	-67.89112481
18.950	-7.38786255	9.75359457	-0.12308626	-1.42973488	-2260.49069249	-75.10709329
18.950	-7.38786255	9.75359457	-0.12308626	-1.42973488	-2260.49069249	-75.10709329
18.988	-9.11680906	12.34411019	-0.16877269	-1.95042589	-2904.68716529	-80.54869022
19.000	-9.69247178	13.20656789	-0.18278227	-2.12314666	-3118.96225895	-82.26714377

HNTB BRIDGE DESIGN PROGRAM BDGS VERSION 2.9.1.0 PAGE 625
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* * * LRFD STRESS SUMMARY (Based on Input Section) * * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN.LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
19.000	-9.62468399	11.93353029	-0.12012656	-1.39535588	-2655.68906965	64.67564108
19.012	-8.93960876	11.00788143	-0.10760980	-1.24956472	-2438.14412631	63.27297401
19.050	-6.83703458	8.15319982	-0.06847853	-0.79542709	-1765.32692381	58.75011963
19.050	-6.83703458	8.15319982	-0.06847853	-0.79542709	-1765.32692381	58.75011963
19.100	-4.28915088	4.67065455	-0.01984919	-0.23056251	-941.31007650	52.75436307
19.100	-4.28915088	4.67065455	-0.01984919	-0.23056251	-941.31007650	52.75436307
19.150	-2.09423215	1.57908503	0.00263068	0.08503120	-187.16040511	46.69533560
19.150	-2.09423215	1.57908505	0.00263068	0.08503119	-187.16040511	46.69533560
19.200	-0.22196427	-1.12728329	0.00688482	0.22265960	489.83798666	40.61819030
19.200	-0.22196427	-1.12728324	0.00688482	0.22265958	489.83798666	40.61819030
19.250	1.46113395	-3.62634606	0.01103986	0.40034029	1099.64703523	34.41115782
19.250	1.46113395	-3.62634600	0.01103985	0.40034026	1099.64703523	34.41115782
19.300	2.91291839	-5.80316974	0.01472531	0.56787549	1627.76131286	28.19288929
19.300	2.91291838	-5.80316966	0.01472531	0.56787545	1627.76131286	28.19288929
19.331	3.70137225	-6.98893427	0.01674159	0.65944777	1915.96595013	24.30769352
19.331	3.70137224	-6.98893419	0.01674158	0.65944772	1915.96595013	24.30769352
19.350	4.14121603	-7.64966972	0.01786128	0.71040098	2076.44880682	21.92692155
19.350	4.14121602	-7.64966964	0.01786128	0.71040092	2076.44880682	21.92692155
19.400	5.14689698	-9.16045293	0.02041719	0.82691258	2443.39382235	15.61951818
19.400	5.14689697	-9.16045283	0.02041719	0.82691251	2443.39382235	15.61951818
19.450	5.92905147	-10.33916663	0.02241756	0.91819025	2730.21089964	9.24642854
19.450	5.92905146	-10.33916652	0.02241755	0.91819018	2730.21089964	9.24642854
19.500	6.48412206	-11.20289599	0.02396851	0.98766396	2944.36148354	2.72004677
19.500	6.48412204	-11.20289588	0.02396851	0.98766389	2944.36148354	2.72004677
19.550	6.81899627	-11.71572404	0.02485383	1.02830609	3070.25138964	-3.85110237
19.550	6.81899625	-11.71572393	0.02485383	1.02830601	3070.25138964	-3.85110237
19.600	6.93434617	-11.87328948	0.02504948	1.03931699	3106.00727004	-10.46161771

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19.600	6.93434615	-11.87328937	0.02504948	1.03931690	3106.00727004	-10.46161771
19.650	6.83068420	-11.67204679	0.02453644	1.02005796	3050.10951818	-17.10765386
19.650	6.83068418	-11.67204668	0.02453643	1.02005788	3050.10951818	-17.10765386
19.700	6.50252776	-11.13886299	0.02348009	0.97588556	2914.27705960	-23.98527361
19.700	6.50252774	-11.13886289	0.02348009	0.97588548	2914.27705960	-23.98527361
19.750	5.94888393	-10.27782670	0.02190735	0.90766228	2700.31929133	-31.26553305
19.750	5.94888391	-10.27782660	0.02190734	0.90766221	2700.31929133	-31.26553305
19.800	5.18157032	-9.02807026	0.01945174	0.80344938	2381.75909361	-38.64164521
19.800	5.18157030	-9.02807018	0.01945174	0.80344932	2381.75909361	-38.64164521
19.850	4.20188590	-7.38209069	0.01607069	0.66183049	1955.34437942	-46.10817829
19.850	4.20188589	-7.38209062	0.01607069	0.66183044	1955.34437942	-46.10817829
19.900	3.01103299	-5.33288257	0.01172471	0.48148778	1418.03764856	-53.65869978
19.900	3.01103298	-5.33288252	0.01172471	0.48148774	1418.03764856	-53.65869978
19.950	1.61009011	-2.87407523	0.00637823	0.26122882	767.07596973	-61.28627690
19.950	1.61009011	-2.87407520	0.00637823	0.26122880	767.07596973	-61.28627690
19.988	0.40208870	-0.72186430	0.00161276	0.06592637	193.18216916	-67.14161304
19.998	0.05963834	-0.10722294	0.00023995	0.00980384	28.71424826	-68.70760815
19.998	0.05963834	-0.10722294	0.00023995	0.00980383	28.71424826	-68.70760815
19.999	0.03256318	-0.05855069	0.00013105	0.00535386	15.68064270	-68.82653847
19.999	0.03256318	-0.05855069	0.00013105	0.00535385	15.68064270	-68.82653849
20.000	0.01624623	-0.02921397	0.00006539	0.00267148	7.82416602	-68.89782843
20.000	0.01624623	-0.02921397	0.00006539	0.00267148	7.82416602	-68.89782842
20.000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	-68.96713030

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
0.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.018	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.036	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.054	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.071	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.089	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.107	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.125	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.143	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00

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----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE					
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
0.161	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.179	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.196	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.214	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.232	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.250	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
0.268	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.286	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.304	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.321	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.339	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.357	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.375	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.393	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.411	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.429	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.446	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.464	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.482	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.500	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.518	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.536	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.554	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.571	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.01
0.589	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.607	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.625	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.643	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.661	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.679	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.696	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.714	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.732	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.750	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.768	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.786	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.804	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.821	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.839	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.857	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.875	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.02
0.893	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
0.911	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
0.929	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
0.946	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
0.964	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
0.982	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
1.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
1.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.03
1.011	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.04
1.015	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.05
1.050	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.16
1.100	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.30
1.150	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.42
1.189	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.49
1.200	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.51
1.211	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.53
1.250	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.58
1.277	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.61
1.300	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.63

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Checked: TRG 8-8-11
BkChckd: KDG 8-8-11

1.334	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.66
1.341	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.66
1.350	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.66
1.400	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.67

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
1.406	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.67*
1.412	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.67
1.450	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.66
1.471	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.65
1.500	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.64
1.500	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.64
1.550	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.60
1.600	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.54
1.650	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.47
1.668	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.45
1.700	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.38
1.750	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.27
1.751	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.27
1.800	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.16
1.823	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.19
1.823	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.13
1.850	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.16
1.895	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.28
1.900	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.29
1.950	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.46
2.000	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.65
2.000	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.65
2.050	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.57
2.100	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.51
2.133	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.47
2.150	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.46
2.200	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.41
2.250	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.36
2.285	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.33
2.300	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.32
2.350	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.28
2.400	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.24
2.450	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.21
2.500	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.21
2.518	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.22
2.544	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.22
2.550	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.22
2.600	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.22
2.650	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.20
2.700	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.18
2.750	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.19
2.800	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.21
2.821	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.23
2.850	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.25
2.900	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.23
2.950	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.31
2.973	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.35
3.000	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.40
3.000	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.39
3.050	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.27
3.100	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.16
3.124	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.13
3.124	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.25
3.150	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.22
3.169	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.20
3.200	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.19
3.250	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.24
3.300	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.28
3.350	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.31
3.400	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.34
3.418	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.34
3.450	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.35
3.465	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.35

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
3.500	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.35
3.543	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.34
3.548	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.34
3.550	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.34
3.600	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.32
3.618	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.31
3.650	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.29
3.687	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.26
3.700	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.25
3.750	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.19
3.756	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.20
3.780	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
3.800	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.25
3.805	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.25
3.805	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.13
3.850	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.17
3.900	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.23
3.950	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.30
4.000	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.41
4.000	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.41

MAX STRESS RATIO 0.67

4.050	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.32
4.052	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.32
4.100	9.7	9.7	11.1000	0.8700	0.07	9.7	9.7	11.1000	0.8700	0.25
4.108	9.7	9.7	11.1000	0.8700	0.07	9.7	9.7	11.1000	0.8700	0.24
4.150	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.20
4.200	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.16
4.250	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.17
4.262	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.18
4.262	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.24
4.300	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.22
4.350	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.26
4.380	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.28
4.400	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.29
4.450	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.30
4.500	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.31
4.524	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.31
4.550	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.31
4.600	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.29
4.650	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.27
4.673	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.25
4.700	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.23
4.730	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.21
4.750	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.23
4.786	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.25
4.786	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
4.800	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.14
4.850	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.18
4.900	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.22
4.950	9.7	9.7	11.1000	0.8700	0.07	9.7	9.7	11.1000	0.8700	0.32
5.000	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.40
5.000	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.39
5.001	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.39
5.050	9.7	9.7	11.1000	0.8700	0.07	9.7	9.7	11.1000	0.8700	0.30
5.100	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.21
5.150	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.17
5.198	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
5.198	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.26
5.200	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.26
5.250	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.22
5.295	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.24
5.300	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.24
5.350	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.28
5.352	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.28

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
5.400	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.31
5.450	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.32
5.495	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.32
5.500	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.32
5.550	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.32
5.600	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.31
5.623	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.29
5.650	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.28
5.700	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.24
5.750	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
5.753	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
5.791	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.26
5.791	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.15
5.800	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.14
5.850	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.18
5.900	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.22
5.916	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.24
5.950	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.30
5.973	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.34
6.000	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.39
6.000	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.40
6.050	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.30
6.100	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.22
6.117	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.21
6.150	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.18
6.174	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.16
6.200	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.14
6.214	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.15
6.214	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.26
6.230	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.24
6.244	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.23
6.250	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.23
6.286	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.22
6.300	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.24
6.350	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.27
6.400	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.30
6.450	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.31
6.496	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.31
6.500	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.31
6.550	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.31
6.585	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.30
6.600	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.30
6.609	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.29
6.650	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.27
6.700	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.23
6.750	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.23
6.777	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.25
6.777	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.15
6.800	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.14
6.850	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.18
6.900	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.23
6.917	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.24
6.950	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.31
7.000	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.40

Made: KDG 8-8-11
Checked: TRG 8-8-11
BkChckd: KDG 8-8-11

7.000	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.39
7.050	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.29
7.100	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.23
7.150	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.18
7.200	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.14
7.207	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
7.209	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
7.209	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.26
7.230	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.24

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
7.250	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
7.300	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.24
7.350	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.28
7.400	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.31
7.450	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.32
7.500	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.33
7.522	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.33
7.538	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.33
7.550	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.32
7.600	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.31
7.650	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.29
7.700	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.25
7.750	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.20
7.800	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.17
7.829	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.19
7.835	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.20
7.835	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.12
7.850	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.11
7.852	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.12
7.900	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.19
7.950	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.28
8.000	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.37
8.000	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.34
8.050	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.28
8.100	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.24
8.150	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.20
8.200	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.18
8.202	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.17
8.250	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.15
8.300	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.17
8.303	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.17
8.303	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.25
8.350	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.23
8.400	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.24
8.450	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.24
8.492	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.24
8.500	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.24
8.550	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.25
8.569	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.25
8.597	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
8.600	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
8.650	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.25
8.681	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.27
8.681	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
8.700	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
8.750	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.17
8.800	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.20
8.850	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.23
8.858	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.24
8.900	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.26
8.905	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.27
8.950	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.30
8.996	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.35
9.000	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.35
9.000	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.50
9.035	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.40
9.050	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.36
9.100	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.23
9.147	9.7	9.7		11.1000	0.8700	0.01	9.7	9.7		11.1000	0.8700	0.15
9.147	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.27
9.150	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.26
9.200	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.18
9.234	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.19

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
9.250	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.21
9.300	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.26
9.325	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.28
9.350	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.30
9.400	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.33
9.428	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.34
9.450	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.34
9.500	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.34
9.550	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.33
9.574	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.33
9.600	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.31
9.650	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.28
9.700	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.32
9.709	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.33
9.709	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.22
9.750	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.21

9.772	9.7	9.7	11.1000	0.8700	0.04	9.7	9.7	11.1000	0.8700	0.23
9.800	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.26
9.850	9.7	9.7	11.1000	0.8700	0.09	9.7	9.7	11.1000	0.8700	0.32
9.863	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.34
9.900	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.39
9.950	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.47
10.000	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.56
10.000	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.56
10.050	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.38
10.085	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.29
10.100	9.7	9.7	11.1000	0.8700	0.09	9.7	9.7	11.1000	0.8700	0.26
10.150	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.16
10.180	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.14
10.180	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.24
10.200	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.20
10.236	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.25
10.250	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.28
10.278	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.33
10.300	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.36
10.305	9.7	9.7	11.1000	0.8700	0.10	9.7	9.7	11.1000	0.8700	0.37
10.350	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.43
10.400	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.48
10.450	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.50
10.488	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.51
10.495	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.51
10.499	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.51
10.500	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.51
10.550	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.50
10.600	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.47
10.646	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.43
10.650	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.43
10.700	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.36
10.715	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.33
10.750	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.27
10.796	9.7	9.7	11.1000	0.8700	0.33	9.7	9.7	11.1000	0.8700	0.33
10.796	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.18
10.800	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.18
10.850	9.7	9.7	11.1000	0.8700	0.06	9.7	9.7	11.1000	0.8700	0.26
10.900	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.35
10.904	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.36
10.923	9.7	9.7	11.1000	0.8700	0.15	9.7	9.7	11.1000	0.8700	0.40
10.934	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.42
10.944	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.45
10.950	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.46
10.955	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.48
11.000	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.62
11.000	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.62

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
11.050	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.48
11.100	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.37
11.150	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.28
11.178	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.23
11.200	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.20
11.227	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.21
11.227	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.32
11.250	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.29
11.300	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.34
11.350	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.40
11.359	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.41
11.400	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.45
11.450	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.47
11.474	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.48
11.500	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.48
11.504	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.48
11.550	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.47
11.600	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.44
11.650	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.40
11.700	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.33
11.750	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.24
11.781	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.22
11.781	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.19
11.800	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.15
11.850	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.21
11.897	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.29
11.900	9.7	9.7		11.1000	0.8700	0.12	9.7	9.7		11.1000	0.8700	0.29
11.950	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.43
12.000	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.61
12.000	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.73
12.050	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.58
12.100	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.46
12.150	9.7	9.7		11.1000	0.8700	0.06	9.7	9.7		11.1000	0.8700	0.36
12.198	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.28
12.198	9.7	9.7		11.1000	0.8700	0.43	9.7	9.7		11.1000	0.8700	0.48
12.200	9.7	9.7		11.1000	0.8700	0.43	9.7	9.7		11.1000	0.8700	0.48
12.250	9.7	9.7		11.1000	0.8700	0.33	9.7	9.7		11.1000	0.8700	0.37
12.300	9.7	9.7		11.1000	0.8700	0.26	9.7	9.7		11.1000	0.8700	0.29
12.350	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.35
12.400	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.38
12.450	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.40
12.493	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.41
12.500	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.41
12.550	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.40
12.600	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.38
12.650	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.34
12.651	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.33
12.669	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.31
12.687	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.29
12.700	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.28

12.705	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.27
12.750	9.7	9.7	11.1000	0.8700	0.22	9.7	9.7	11.1000	0.8700	0.26
12.748	9.7	9.7	11.1000	0.8700	0.27	9.7	9.7	11.1000	0.8700	0.31
12.788	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.18
12.800	9.7	9.7	11.1000	0.8700	0.03	9.7	9.7	11.1000	0.8700	0.20
12.450	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.29
12.900	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.39
12.950	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.54
13.000	9.7	9.7	11.1000	0.8700	0.29	9.7	9.7	11.1000	0.8700	0.75
13.000	9.7	9.7	11.1000	0.8700	0.29	9.7	9.7	11.1000	0.8700	0.74
13.050	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.52
13.100	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.40
13.150	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.29

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
13.200	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.20
13.214	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
13.214	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.32
13.250	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.26
13.300	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.28
13.350	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.34
13.400	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.38
13.450	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.40
13.500	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.40
13.502	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.40
13.550	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.40
13.600	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.37
13.650	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.33
13.700	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.28
13.750	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.26
13.790	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.31
13.790	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
13.800	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.20
13.850	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.29
13.900	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.39
13.950	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.55
14.000	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.75
14.000	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.77
14.050	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.55
14.100	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.40
14.150	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.29
14.200	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.20
14.210	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.19
14.210	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.32
14.250	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.26
14.300	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.28
14.350	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.33
14.370	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.35
14.400	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.37
14.419	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.38
14.450	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.39
14.467	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.40
14.497	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.40
14.500	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.40
14.516	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.40
14.550	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.39
14.600	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.37
14.650	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.33
14.700	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.28
14.750	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.28
14.783	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.35
14.783	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.20
14.800	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.22
14.850	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.31
14.900	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.42
14.950	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.54
15.000	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.76
15.000	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.95
15.050	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.68
15.100	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.48
15.150	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.34
15.199	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.23
15.199	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.39
15.200	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.39
15.250	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.29
15.300	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.31
15.350	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.37
15.400	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.41

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
15.450	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.43
15.481	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.43
15.500	9.7	9.7		11.1000	0.8700	0.25	9.7	9.7		11.1000	0.8700	0.43
15.550	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.42
15.600	9.7	9.7		11.1000	0.8700	0.21	9.7	9.7		11.1000	0.8700	0.39
15.650	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.35
15.700	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.28
15.750	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.36
15.762	9.7	9.7		11.1000	0.8700	0.32	9.7	9.7		11.1000	0.8700	0.40
15.762	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.23
15.800	9.7	9.7		11.1000	0.8700	0.05	9.7	9.7		11.1000	0.8700	0.30

Made: KDG 8-8-11
Checked: TRG 8-8-11
BkChckd: KDG 8-8-11

15.850	9.7	9.7	11.1000	0.8700	0.11	9.7	9.7	11.1000	0.8700	0.41
15.900	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.54
15.950	9.7	9.7	11.1000	0.8700	0.27	9.7	9.7	11.1000	0.8700	0.69
16.000	9.7	9.7	11.1000	0.8700	0.37	9.7	9.7	11.1000	0.8700	0.96
16.000	9.7	9.7	11.1000	0.8700	0.37	9.7	9.7	11.1000	0.8700	0.69
16.024	9.7	9.7	11.1000	0.8700	0.31	9.7	9.7	11.1000	0.8700	0.59
16.050	9.7	9.7	11.1000	0.8700	0.26	9.7	9.7	11.1000	0.8700	0.49
16.090	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.37
16.100	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.35
16.150	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.23
16.155	9.7	9.7	11.1000	0.8700	0.07	9.7	9.7	11.1000	0.8700	0.22
16.196	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
16.196	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.28
16.200	9.7	9.7	11.1000	0.8700	0.27	9.7	9.7	11.1000	0.8700	0.27
16.221	9.7	9.7	11.1000	0.8700	0.23	9.7	9.7	11.1000	0.8700	0.23
16.250	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.27
16.300	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.36
16.350	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.43
16.400	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.49
16.450	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.51
16.497	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.52
16.500	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.52
16.550	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.51
16.600	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.48
16.650	9.7	9.7	11.1000	0.8700	0.16	9.7	9.7	11.1000	0.8700	0.43
16.700	9.7	9.7	11.1000	0.8700	0.13	9.7	9.7	11.1000	0.8700	0.35
16.750	9.7	9.7	11.1000	0.8700	0.19	9.7	9.7	11.1000	0.8700	0.26
16.797	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.28
16.797	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
16.800	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.15
16.850	9.7	9.7	11.1000	0.8700	0.09	9.7	9.7	11.1000	0.8700	0.25
16.900	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.36
16.950	9.7	9.7	11.1000	0.8700	0.27	9.7	9.7	11.1000	0.8700	0.51
17.000	9.7	9.7	11.1000	0.8700	0.39	9.7	9.7	11.1000	0.8700	0.71
17.000	9.7	9.7	11.1000	0.8700	0.39	9.7	9.7	11.1000	0.8700	0.96
17.050	9.7	9.7	11.1000	0.8700	0.29	9.7	9.7	11.1000	0.8700	0.69
17.055	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.68
17.100	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.54
17.150	9.7	9.7	11.1000	0.8700	0.12	9.7	9.7	11.1000	0.8700	0.41
17.200	9.7	9.7	11.1000	0.8700	0.05	9.7	9.7	11.1000	0.8700	0.29
17.235	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.23
17.235	9.7	9.7	11.1000	0.8700	0.32	9.7	9.7	11.1000	0.8700	0.39
17.250	9.7	9.7	11.1000	0.8700	0.29	9.7	9.7	11.1000	0.8700	0.35
17.300	9.7	9.7	11.1000	0.8700	0.21	9.7	9.7	11.1000	0.8700	0.29
17.350	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.36
17.400	9.7	9.7	11.1000	0.8700	0.24	9.7	9.7	11.1000	0.8700	0.41
17.450	9.7	9.7	11.1000	0.8700	0.27	9.7	9.7	11.1000	0.8700	0.44
17.500	9.7	9.7	11.1000	0.8700	0.29	9.7	9.7	11.1000	0.8700	0.45
17.531	9.7	9.7	11.1000	0.8700	0.29	9.7	9.7	11.1000	0.8700	0.45
17.550	9.7	9.7	11.1000	0.8700	0.29	9.7	9.7	11.1000	0.8700	0.45
17.600	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.43
17.650	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.39

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) -----

	TOP FLANGE						BOTTOM FLANGE				
SPAN.LOC FRAC	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO	INP AREA (in²)	REQ AREA (in²)	NG	WIDTH (in)	THICK (in)	STRESS RATIO
17.700	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.33
17.750	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.25
17.800	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.29
17.827	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.37
17.827	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.22
17.850	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.28
17.900	9.7	9.7		11.1000	0.8700	0.10	9.7	9.7		11.1000	0.8700	0.42
17.950	9.7	9.7		11.1000	0.8700	0.18	9.7	9.7		11.1000	0.8700	0.64
18.000	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.93
18.000	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.65
18.024	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.58
18.050	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.48
18.100	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.38
18.150	9.7	9.7		11.1000	0.8700	0.09	9.7	9.7		11.1000	0.8700	0.30
18.156	9.7	9.7		11.1000	0.8700	0.08	9.7	9.7		11.1000	0.8700	0.29
18.200	9.7	9.7		11.1000	0.8700	0.04	9.7	9.7		11.1000	0.8700	0.24
18.222	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.21
18.250	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
18.252	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.18
18.252	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.33
18.300	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.26
18.350	9.7	9.7		11.1000	0.8700	0.20	9.7	9.7		11.1000	0.8700	0.26
18.400	9.7	9.7		11.1000	0.8700	0.16	9.7	9.7		11.1000	0.8700	0.29
18.450	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.30
18.488	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.31
18.500	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.30
18.550	9.7	9.7		11.1000	0.8700	0.13	9.7	9.7		11.1000	0.8700	0.30
18.600	9.7	9.7		11.1000	0.8700	0.15	9.7	9.7		11.1000	0.8700	0.28
18.650	9.7	9.7		11.1000	0.8700	0.19	9.7	9.7		11.1000	0.8700	0.24
18.700	9.7	9.7		11.1000	0.8700	0.24	9.7	9.7		11.1000	0.8700	0.25
18.724	9.7	9.7		11.1000	0.8700	0.27	9.7	9.7		11.1000	0.8700	0.29
18.724	9.7	9.7		11.1000	0.8700	0.02	9.7	9.7		11.1000	0.8700	0.16
18.750	9.7	9.7		11.1000	0.8700	0.03	9.7	9.7		11.1000	0.8700	0.18
18.800	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.23
18.850	9.7	9.7		11.1000	0.8700	0.11	9.7	9.7		11.1000	0.8700	0.30
18.900	9.7	9.7		11.1000	0.8700	0.17	9.7	9.7		11.1000	0.8700	0.38
18.950	9.7	9.7		11.1000	0.8700	0.23	9.7	9.7		11.1000	0.8700	0.47
18.988	9.7	9.7		11.1000	0.8700	0.29	9.7	9.7		11.1000	0.8700	0.60
19.000	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.64
19.000	9.7	9.7		11.1000	0.8700	0.30	9.7	9.7		11.1000	0.8700	0.58
19.012	9.7	9.7		11.1000	0.8700	0.28	9.7	9.7		11.1000	0.8700	0.54
19.050	9.7	9.7		11.1000	0.8700	0.22	9.7	9.7		11.1000	0.8700	0.42
19.100	9.7	9.7		11.1000	0.8700	0.14	9.7	9.7		11.1000	0.8700	0.30
19.150	9.7	9.7		11.1000	0.8700	0.07	9.7	9.7		11.1000	0.8700	0.21

Made: KDG 8-8-11
Checked: TRG 8-8-11
BkChckd: KDG 8-8-11

19.200	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.13
19.200	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.25
19.250	9.7	9.7	11.1000	0.8700	0.17	9.7	9.7	11.1000	0.8700	0.21
19.300	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.30
19.321	9.7	9.7	11.1000	0.8700	0.18	9.7	9.7	11.1000	0.8700	0.35
19.350	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.37
19.400	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.43
19.450	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.48
19.500	9.7	9.7	11.1000	0.8700	0.31	9.7	9.7	11.1000	0.8700	0.51
19.550	9.7	9.7	11.1000	0.8700	0.33	9.7	9.7	11.1000	0.8700	0.52
19.600	9.7	9.7	11.1000	0.8700	0.33	9.7	9.7	11.1000	0.8700	0.53
19.650	9.7	9.7	11.1000	0.8700	0.33	9.7	9.7	11.1000	0.8700	0.52
19.700	9.7	9.7	11.1000	0.8700	0.31	9.7	9.7	11.1000	0.8700	0.50
19.750	9.7	9.7	11.1000	0.8700	0.28	9.7	9.7	11.1000	0.8700	0.46
19.800	9.7	9.7	11.1000	0.8700	0.25	9.7	9.7	11.1000	0.8700	0.40
19.850	9.7	9.7	11.1000	0.8700	0.20	9.7	9.7	11.1000	0.8700	0.33
19.900	9.7	9.7	11.1000	0.8700	0.14	9.7	9.7	11.1000	0.8700	0.24
19.950	9.7	9.7	11.1000	0.8700	0.08	9.7	9.7	11.1000	0.8700	0.13
19.988	9.7	9.7	11.1000	0.8700	0.02	9.7	9.7	11.1000	0.8700	0.03

----- GIRDER 2 FLANGE PLATE AREA REQUIRED FOR STRENGTH/CONSTRUCTIBILITY (* = DIFFERENT THAN INPUT) ----------

SPAN LOC FRAC	TOP FLANGE INP AREA (in²)	TOP FLANGE REQ AREA (in²)	TOP FLANGE NG	TOP FLANGE WIDTH (in)	TOP FLANGE THICK (in)	TOP FLANGE STRESS RATIO	BOTTOM FLANGE INP AREA (in²)	BOTTOM FLANGE REQ AREA (in²)	BOTTOM FLANGE NG	BOTTOM FLANGE WIDTH (in)	BOTTOM FLANGE THICK (in)	BOTTOM FLANGE STRESS RATIO
19.998	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
19.999	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
20.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00
20.000	9.7	9.7		11.1000	0.8700	0.00	9.7	9.7		11.1000	0.8700	0.00

----- GIRDER 2 FLEXURAL FATIGUE STRESS SUMMARY ----------

NOTES:
- MOMENTS AND STRESSES ARE FACTORED
- DEAD LOAD STRESSES INCLUDE LATERAL FLANGE BENDING (IF APPLICABLE)
- STRESSES ARE BASED ON INPUT PLATE SIZES
- TENSION IS POSITIVE

SPAN LOC FRAC	DEAD LOAD TOP FL (ksi)	DEAD LOAD BOT FL (ksi)	MAX FATIGUE I LL+I MZ (ft-k)	MAX FATIGUE I MLAT TOP (ft-k)	MAX FATIGUE I MLAT BOT (ft-k)	MIN FATIGUE I LL+I MZ (ft-k)	MIN FATIGUE I MLAT TOP (ft-k)	MIN FATIGUE I MLAT BOT (ft-k)	TOP FLANGE MAX (ksi)	TOP FLANGE MIN (ksi)	TOP FLANGE RANGE (ksi)	BOTTOM FLANGE MAX (ksi)	BOTTOM FLANGE MIN (ksi)	BOTTOM FLANGE RANGE (ksi)
0.000	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
0.018	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.036	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.054	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.071	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.089	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	
0.107	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	-0.01	
0.125	0.00	0.00	0	0	0	-1	0	0	0.00	0.00	0.00	0.00	-0.02	
0.143	0.00	0.00	0	0	0	-1	0	0	0.00	0.00	0.00	0.00	-0.03	
0.161	0.00	0.00	0	0	0	-1	0	0	0.00	0.00	0.00	0.00	-0.04	
0.179	0.00	0.00	0	0	0	-2	0	0	0.00	0.00	0.00	0.00	-0.06	
0.196	0.00	0.00	0	0	0	-2	0	0	0.00	0.00	0.00	0.00	-0.07	
0.214	0.00	0.00	0	0	0	-2	0	0	0.00	0.00	0.00	0.00	-0.08	
0.232	0.00	0.00	0	0	0	-3	0	0	0.01	0.00	0.01	0.00	-0.09	
0.250	0.00	0.00	0	0	0	-3	0	0	0.01	0.00	0.01	0.00	-0.11	
0.268	0.00	0.00	0	0	0	-4	0	0	0.01	0.00	0.01	0.00	-0.12	
0.286	0.00	0.00	0	0	0	-4	0	0	0.01	0.00	0.01	0.00	-0.13	
0.304	0.00	0.00	0	0	0	-4	0	0	0.01	0.00	0.01	0.00	-0.14	
0.321	0.00	0.00	0	0	0	-5	0	0	0.01	0.00	0.01	0.00	-0.16	
0.339	0.00	0.00	0	0	0	-5	0	0	0.01	0.00	0.01	0.00	-0.17	
0.357	0.00	0.00	0	0	0	-5	0	0	0.01	0.00	0.01	0.00	-0.18	
0.375	0.00	0.00	0	0	0	-6	0	0	0.01	0.00	0.01	0.00	-0.19	
0.393	0.00	0.00	0	0	0	-6	0	0	0.01	0.00	0.01	0.00	-0.21	
0.411	0.00	0.00	0	0	0	-7	0	0	0.01	0.00	0.01	0.00	-0.22	
0.429	0.00	0.00	0	0	0	-7	0	0	0.01	0.00	0.01	0.00	-0.23	
0.446	0.00	0.00	0	0	0	-7	0	0	0.01	0.00	0.01	0.00	-0.24	
0.464	0.00	0.00	0	0	0	-8	0	0	0.01	0.00	0.01	0.00	-0.26	
0.482	0.00	0.00	0	0	0	-8	0	0	0.01	0.00	0.01	0.00	-0.27	
0.500	0.00	0.00	0	0	0	-8	0	0	0.02	0.00	0.02	0.00	-0.28	
0.518	0.00	0.00	0	0	0	-9	0	0	0.02	0.00	0.02	0.00	-0.29	
0.536	0.00	0.00	0	0	0	-9	0	0	0.02	0.00	0.02	0.00	-0.31	
0.554	0.00	0.00	0	0	0	-10	0	0	0.02	0.00	0.02	0.00	-0.32	
0.571	0.00	0.00	0	0	0	-10	0	0	0.02	0.00	0.02	0.00	-0.33	
0.589	0.00	0.00	0	0	0	-10	0	0	0.02	0.00	0.02	0.00	-0.34	
0.607	0.00	0.00	0	0	0	-11	0	0	0.02	0.00	0.02	0.00	-0.35	
0.625	0.00	0.00	0	0	0	-11	0	0	0.02	0.00	0.02	0.00	-0.37	
0.643	0.00	0.00	0	0	0	-12	0	0	0.02	0.00	0.02	0.00	-0.38	
0.661	0.00	0.00	0	0	0	-12	0	0	0.02	0.00	0.02	0.00	-0.39	
0.679	0.00	0.00	0	0	0	-12	0	0	0.02	0.00	0.02	0.00	-0.40	
0.696	0.00	0.00	0	0	0	-13	0	0	0.02	0.00	0.02	0.00	-0.42	
0.714	0.00	0.00	0	0	0	-13	0	0	0.02	0.00	0.02	0.00	-0.43	
0.732	0.00	0.00	0	0	0	-13	0	0	0.02	0.00	0.02	0.00	-0.44	
0.750	0.00	0.00	0	0	0	-14	0	0	0.02	0.00	0.02	0.00	-0.45	
0.768	0.00	0.00	0	0	0	-14	0	0	0.03	0.00	0.03	0.00	-0.47	
0.786	0.00	-0.01	0	0	0	-15	0	0	0.03	0.00	0.03	0.00	-0.48	
0.804	0.00	-0.01	0	0	0	-15	0	0	0.03	0.00	0.03	0.00	-0.49	
0.821	0.00	-0.01	0	0	0	-15	0	0	0.03	0.00	0.03	0.00	-0.50	
0.839	0.00	-0.01	0	0	0	-16	0	0	0.03	0.00	0.03	0.00	-0.52	

----- GIRDER 2 FLEXURAL FATIGUE STRESS SUMMARY ----------

NOTES:
- MOMENTS AND STRESSES ARE FACTORED
- DEAD LOAD STRESSES INCLUDE LATERAL FLANGE BENDING (IF APPLICABLE)
- STRESSES ARE BASED ON INPUT PLATE SIZES
- TENSION IS POSITIVE

SPAN LOC FRAC	DEAD LOAD TOP FL (ksi)	DEAD LOAD BOT FL (ksi)	MAX FATIGUE I LL+I MZ (ft-k)	MAX FATIGUE I MLAT TOP (ft-k)	MAX FATIGUE I MLAT BOT (ft-k)	MIN FATIGUE I LL+I MZ (ft-k)	MIN FATIGUE I MLAT TOP (ft-k)	MIN FATIGUE I MLAT BOT (ft-k)	TOP FLANGE MAX (ksi)	TOP FLANGE MIN (ksi)	TOP FLANGE RANGE (ksi)	BOTTOM FLANGE MAX (ksi)	BOTTOM FLANGE MIN (ksi)	BOTTOM FLANGE RANGE (ksi)
0.857	0.00	-0.01	0	0	0	-16	0	0	0.03	0.00	0.03	0.00	-0.53	
0.875	0.00	-0.01	0	0	0	-16	0	0	0.03	0.00	0.03	0.00	-0.54	
0.893	0.00	-0.01	0	0	0	-17	0	0	0.03	0.00	0.03	0.00	-0.55	
0.911	0.00	-0.01	0	0	0	-17	0	0	0.03	0.00	0.03	0.00	-0.57	
0.929	0.00	-0.01	0	0	0	-18	0	0	0.03	0.00	0.03	0.00	-0.58	
0.946	0.00	-0.01	0	0	0	-18	0	0	0.03	0.00	0.03	0.00	-0.59	
0.964	0.00	-0.01	0	0	0	-18	0	0	0.03	0.00	0.03	0.00	-0.60	
0.982	0.00	-0.01	0	0	0	-19	0	0	0.03	0.00	0.03	0.00	-0.61	
1.000	0.00	-0.01	0	0	0	-19	0	0	0.03	0.00	0.03	0.00	-0.63	
1.000	0.00	-0.01	0	0	0	-19	0	0	0.03	0.00	0.03	0.00	-0.63	
1.011	-0.37	0.54	11	0	0	-19	0	0	0.90	0.00	0.90	0.35	-1.07	1.42
1.015	-0.52	0.76	15	0	0	-19	0	0	0.77	0.00	0.77	0.48	-1.01	1.49
1.050	-1.63	2.38	47	0	0	-19	0	0	0.24	-0.10		1.49	-0.59	2.08
1.100	-3.05	4.46	87	0	0	-18	0	0	0.44	-0.09		2.75	-0.59	3.33
1.150	-4.26	6.23	119	0	0	-18	0	0	0.61	-0.09		3.78	-0.58	4.35
1.189	-5.06	7.39	139	0	0	-18	0	0	0.72	-0.09		4.43	-0.57	5.00
1.200	-5.26	7.69	144	0	0	-18	0	0	0.74	-0.09		4.59	-0.57	5.15
1.211	-5.46	7.98	149	0	0	-18	0	0	0.77	-0.09		4.74	-0.56	5.31
1.250	-6.05	8.83	163	0	0	-18	0	0	0.84	-0.09		5.19	-0.56	5.74
1.277	-6.38	9.32	171	0	0	-17	0	0	0.88	-0.09		5.42	-0.55	5.98
1.300	-6.63	9.67	176	0	0	-17	0	0	0.90	-0.09		5.59	-0.55	6.13
1.334	-6.90	10.05	182	0	0	-17	0	0	0.93	-0.09		5.77	-0.54	6.31
1.341	-6.94	10.12	183	0	0	-17	0	0	0.94	-0.09		5.79	-0.54	6.33
1.350	-6.99	10.19	183	0	0	-17	0	0	0.94	-0.09		5.82	-0.54	6.36
1.400	-7.15	10.40	184	0	0	-17	0	0	0.95	-0.09		5.85	-0.55	6.41
1.406	-7.15	10.40	184	0	0	-18	0	0	0.95	-0.09		5.85	-0.56	6.41
1.412	-7.15	10.40	184	0	0	-18	0	0	0.95	-0.09		5.84	-0.57	6.41
1.450	-7.09	10.30	181	0	0	-20	0	0	0.93	-0.10		5.74	-0.62	6.36
1.471	-7.00	10.16	178	0	0	-20	0	0	0.91	-0.11		5.64	-0.65	6.29
1.500	-6.83	9.88	174	0	0	-22	0	0	0.89	-0.11		5.52	-0.69	6.21
1.550	-6.35	9.16	166	0	0	-24	0	0	0.85	-0.12		5.27	-0.76	6.03
1.600	-5.66	8.12	158	0	0	-26	0	0	0.81	-0.13		5.01	-0.83	5.83
1.650	-4.75	6.77	144	0	0	-28	0	0	0.74	-0.15		4.58	-0.90	5.47
1.658	-4.59	6.52	142	0	0	-29	0	0	0.73	-0.15		4.50	-0.91	5.40
1.700	-3.64	5.10	127	0	0	-30	0	0	0.65	-0.16		4.03	-0.96	5.00
1.750	-2.32	3.13	107	0	0	-33	0	0	0.57	0.00		3.39	-1.38	4.77
1.751	-2.28	3.07	106	0	0	-33	0	0	0.61	0.00		3.37	-1.40	4.77
1.800	-0.78	0.84	87	0	0	-45	0	0	2.80	0.00	2.80	2.77	-2.86	5.62
1.823	0.01	-0.28	84	0	0	-51	0	0	0.37	0.00	0.37	2.67	-1.68	4.35
1.850	1.04	-1.70	72	0	0	-60	0	0	0.23	0.00	0.23	2.31	-1.98	4.30
1.895	2.89	-4.26	53	0	0	-78	0	0	0.14	-0.03	0.17	1.72	-2.56	
1.900	3.09	-4.53	51	0	0	-80	0	0	0.14	-0.06	0.20	1.66	-2.63	
1.950	5.35	-7.67	30	0	0	-102	0	0	0.18	-0.05	0.23	0.98	-3.35	
2.000	7.84	-11.11	14	0	0	-130	0	0	0.23	-0.02	0.26	0.46	-4.28	
2.000	7.84	-11.11	14	0	0	-130	0	0	0.23	-0.02	0.26	0.46	-4.28	
2.050	6.77	-9.62	30	0	0	-122	0	0	0.22	-0.05	0.27	0.99	-4.02	
2.100	5.79	-8.25	49	0	0	-115	0	0	0.20	-0.09	0.29	1.61	-3.78	
2.133	5.19	-7.41	61	0	0	-109	0	0	0.19	-0.11	0.30	2.00	-3.59	
2.150	4.89	-6.99	67	0	0	-106	0	0	0.19	-0.12	0.31	2.20	-3.49	
2.200	4.08	-5.85	85	0	0	-99	0	0	0.18	0.00	0.18	2.77	-3.28	
2.250	3.35	-4.83	101	0	0	-93	0	0	0.19	0.00	0.19	3.26	-3.08	6.34
2.285	2.89	-4.19	111	0	0	-89	0	0	0.28	0.00	0.28	3.56	-2.94	6.50
2.300	2.70	-3.92	114	0	0	-87	0	0	0.32	0.00	0.32	3.67	-2.87	6.55
2.350	2.14	-3.13	125	0	0	-81	0	0	0.42	0.00	0.42	3.99	-2.67	6.66
2.400	1.66	-2.46	132	0	0	-78	0	0	0.50	0.00	0.50	4.21	-2.57	6.78
2.450	1.27	-1.90	136	0	0	-72	0	0	0.56	0.00	0.56	4.32	-2.38	6.70

----- GIRDER 2 FLEXURAL FATIGUE STRESS SUMMARY ----------

NOTES:
- MOMENTS AND STRESSES ARE FACTORED
- DEAD LOAD STRESSES INCLUDE LATERAL FLANGE BENDING (IF APPLICABLE)
- STRESSES ARE BASED ON INPUT PLATE SIZES
- TENSION IS POSITIVE

SPAN LOC FRAC	DEAD LOAD TOP FL (ksi)	DEAD LOAD BOT FL (ksi)	MAX FATIGUE I LL+I MZ (ft-k)	MAX FATIGUE I MLAT TOP (ft-k)	MAX FATIGUE I MLAT BOT (ft-k)	MIN FATIGUE I LL+I MZ (ft-k)	MIN FATIGUE I MLAT TOP (ft-k)	MIN FATIGUE I MLAT BOT (ft-k)	TOP FLANGE MAX (ksi)	TOP FLANGE MIN (ksi)	TOP FLANGE RANGE (ksi)	BOTTOM FLANGE MAX (ksi)	BOTTOM FLANGE MIN (ksi)	BOTTOM FLANGE RANGE (ksi)
2.500	0.96	-1.45	137	0	0	-70	0	0	0.59	0.00	0.59	4.35	-2.31	6.66
2.518	0.86	-1.32	137	0	0	-69	0	0	0.60	0.00	0.60	4.36	-2.29	6.64
2.544	0.75	-1.16	136	0	0	-68	0	0	0.61	0.00	0.61	4.34	-2.25	6.59
2.550	0.73	-1.12	136	0	0	-68	0	0	0.61	0.00	0.61	4.33	-2.24	6.58
2.600	0.59	-0.91	133	0	0	-66	0	0	0.61	0.00	0.61	4.22	-2.18	6.40
2.650	0.53	-0.82	127	0	0	-64	0	0	0.59	0.00	0.59	4.02	-2.11	6.13
2.700	0.56	-0.83	117	0	0	-62	0	0	0.54	0.00	0.54	3.73	-2.04	5.77
2.750	0.68	-0.97	106	0	0	-60	0	0	0.48	0.00	0.48	3.36	-1.97	5.33
2.800	0.87	-1.22	92	0	0	-58	0	0	0.40	0.00	0.40	2.91	-1.90	4.82
2.821	0.98	-1.35	85	0	0	-59	0	0	0.36	0.00	0.36	2.71	-1.95	4.67
2.850	1.15	-1.58	76	0	0	-62	0	0	0.30	0.00	0.30	2.41	-2.04	4.45
2.900	1.52	-2.06	58	0	0	-66	0	0	0.18	0.00	0.18	1.86	-2.19	4.05
2.950	1.97	-2.65	41	0	0	-77	0	0	0.14	0.00	0.14	1.34	-2.55	3.89
2.973	2.20	-2.96	36	0	0	-82	0	0	0.15	0.00	0.15	1.18	-2.71	
3.000	2.51	-3.36	31	0	0	-88	0	0	0.16	-0.03	0.19	1.01	-2.91	
3.000	2.51	-3.36	31	0	0	-88	0	0	0.16	-0.03	0.19	1.01	-2.91	
3.050	1.40	-1.86	49	0	0	-66	0	0	0.15	0.00	0.15	1.58	-2.18	3.76
3.100	0.42	-0.54	69	0	0	-56	0	0	0.33	0.00	0.33	2.18	-1.83	4.01
3.124	0.00	0.04	78	0	0	-50	0	0	3.18	0.00	3.18	2.46	-3.22	5.68
3.150	-0.41	0.63	80	0	0	-47	0	0	2.62	0.00	2.62	2.52	-2.84	5.36
3.169	-0.69	1.04	85	0	0	-46	0	0	2.29	0.00	2.29	2.71	-2.64	5.34
3.200	-1.11	1.64	95	0	0	-43	0	0	1.79	0.00	1.79	2.99	-2.32	5.32
3.250	-1.69	2.47	108	0	0	-41	0	0	1.13	0.00	1.13	3.41	-1.92	5.32
3.300	-2.15	3.13	119	0	0	-39	0	0	0.68	0.00		3.75	-1.66	5.41
3.350	-2.48	3.61	127	0	0	-38	0	0	0.65	0.00		4.02	-1.45	5.47
3.400	-2.70	3.91	133	0	0	-37	0	0	0.69	0.00		4.21	-1.29	5.50
3.418	-2.75	3.98	134	0	0	-36	0	0	0.69	0.00		4.25	-1.24	5.49
3.450	-2.80	4.04	135	0	0	-35	0	0	0.70	-0.07		4.28	-1.18	5.46
3.465	-2.80	4.05	135	0	0	-35	0	0	0.70	-0.09		4.29	-1.15	5.44
3.500	-2.77	3.99	134	0	0	-34	0	0	0.69	-0.11		4.25	-1.11	5.37
3.543	-2.65	3.82	131	0	0	-36	0	0	0.68	0.00		4.16	-1.30	5.45
3.548	-2.63	3.78	131	0	0	-36	0	0	0.67	0.00		4.14	-1.32	5.46
3.550	-2.63	3.77	131	0	0	-37	0	0	0.67	0.00		4.13	-1.34	5.47

Made: KDG 8-8-11
Checked: TRG 8-8-11
BkChckd: KDG 8-8-11

1.200	4.42679952	-25.64911976	0.22197735	5.25789932	8134.27939060	52.25134050
1.211	4.60358856	-26.56698400	0.22969688	5.44284340	8474.07639632	48.51371755
1.211	4.60358846	-26.56698376	0.22969686	5.44284312	8474.07639633	48.51371755
1.250	5.13297256	-29.21805291	0.25176643	5.97361366	9307.96425714	36.04275631
1.250	5.13297244	-29.21805264	0.25176641	5.97361335	9307.96425714	36.04275631
1.277	5.43980975	-30.66674233	0.26361420	6.26041901	9760.72236208	27.51778040
1.277	5.43980962	-30.66674204	0.26361418	6.26041868	9760.72236208	27.51778040
1.300	5.67067132	-31.69606678	0.27187598	6.46175941	10080.28783809	20.04149789
1.300	5.67067119	-31.69606647	0.27187596	6.46175906	10080.28783809	20.04149789
1.334	5.93475791	-32.76674847	0.28017856	6.66657310	10408.73346485	9.41393420
1.334	5.93475779	-32.76674820	0.28017853	6.66657279	10408.73346486	9.41393420
1.341	5.98341495	-32.94536141	0.28151572	6.69992296	10462.74120922	7.02405718
1.341	5.98341485	-32.94536119	0.28151570	6.69992271	10462.74120923	7.02405718
1.350	6.03412214	-33.11920650	0.28277846	6.73176000	10514.74703934	4.29439067

* * * LRFD STRESS SUMMARY (Based on Input Section)* * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN,LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
1.350	6.03412204	-33.11920628	0.28277844	6.73175974	10514.74703934	4.29439066
1.400	6.21652611	-33.63004477	0.28502684	6.79468881	10627.29554352	-11.15143787
1.400	6.21652600	-33.53004243	0.28502682	6.79468853	10627.29554352	-11.15143788
1.406	6.22604844	-33.51156603	0.28473316	6.78860272	10619.24217354	-12.88894441
1.406	6.22605101	-33.51157192	0.28473368	6.78860945	10619.24217355	-12.88894441
1.412	6.23268197	-33.48272572	0.28434443	6.78029345	10608.13834641	-14.71614339
1.450	6.19768569	-33.05134777	0.28008859	6.68097133	10464.49395780	-4.42217107
1.450	6.19768558	-33.05134777	0.28008857	6.68097105	10464.49395781	-4.42217107
1.471	6.10066334	-32.74050512	0.27779685	6.61983182	10373.49731721	-11.20352669
1.471	6.10066323	-32.74050487	0.27779683	6.61983154	10373.49731721	-11.20352669
1.500	5.91895271	-32.04475289	0.27235448	6.48102516	10163.08689681	-20.12636856
1.500	5.91895260	-32.04475263	0.27235445	6.48102487	10163.08689681	-20.12636856
1.550	5.45360667	-30.05718253	0.25634570	6.08187973	9551.72234610	-35.54455425
1.550	5.45360657	-30.05718228	0.25634568	6.08187945	9551.72234610	-35.54455425
1.600	4.79167173	-27.14982518	0.23281798	5.49899618	8653.50625474	-50.62199193
1.600	4.79167163	-27.14982495	0.23281796	5.49899592	8653.50625474	-50.62199193
1.650	3.92441249	-23.37616425	0.20243332	4.74591300	7488.63403726	-65.32719050
1.650	3.92441240	-23.37616404	0.20243330	4.74591277	7488.63403726	-65.32719050
1.658	3.76216825	-22.68528195	0.19691233	4.60867198	7275.94848723	-67.68365604
1.658	3.76216817	-22.68528174	0.19691231	4.60867175	7275.94848723	-67.68365604
1.700	2.84278210	-18.79155511	0.16587585	3.83663564	6078.01329681	-79.63760507
1.700	2.84278202	-18.79155492	0.16587584	3.83663545	6078.01329681	-79.63760507
1.750	1.53518221	-13.46703029	0.12401841	2.78907706	4448.48816111	-92.84033438
1.750	1.53518216	-13.46703014	0.12401840	2.78907692	4448.48816113	-92.84033458
1.751	1.49737810	-13.31985668	0.12287954	2.76035911	4403.73700466	-93.01357840
1.751	1.49737805	-13.31985656	0.12287953	2.76035899	4403.73700464	-93.01357805
1.800	-0.09527086	-8.00064110	0.08411004	1.75265776	2826.24725563	-131.38095659
1.800	-0.09537088	-8.00064103	0.08411003	1.75265769	2826.24725563	-131.38095659
1.823	-1.01685652	-6.26966798	0.07568365	1.56292429	2372.37628333	-32.69618493
1.850	-2.14124000	-3.77466062	0.06143106	1.26878037	1681.22202009	-122.78410984
1.850	-2.14124001	-3.77466057	0.06143105	1.26878032	1681.22202009	-122.78410984
1.895	-4.20075094	0.54334125	0.03796134	0.78423984	503.79016443	-39.20743985
1.895	-4.20075095	0.54334128	0.03796133	0.78423981	503.79016443	-39.20743986
1.900	-4.42075445	0.98715830	0.03563663	0.73623292	384.14177204	-39.64023717
1.900	-4.42075446	0.98715833	0.03563663	0.73623289	384.14177204	-39.64023717
1.950	-6.99503212	5.96647458	0.01066955	0.22049082	-940.75389138	-44.52947941
1.950	-6.99503212	5.96647459	0.01066955	0.22049081	-940.75389138	-44.52947941
2.000	-10.06774795	10.45481675	-0.02013874	-0.23392581	-2019.31767781	-48.62623330

* * * LRFD STRESS SUMMARY (Based on Input Section)* * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN,LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
2.000	-10.06774795	10.45481675	-0.02013874	-0.23392581	-2019.31767781	14.71233924
2.050	-8.76639470	8.12091708	0.00668969	0.13831372	-1405.24160022	114.86771962
2.050	-8.76639470	8.12091709	0.00668969	0.13831372	-1405.24160022	114.86771962
2.100	-7.76955756	5.23040214	0.02630618	0.54400446	-553.67596242	111.83902909
2.100	-7.76955757	5.23040216	0.02630617	0.54400444	-553.67596242	111.83902909
2.133	-7.17656612	3.33004469	0.03984105	0.82401182	16.53627893	145.19902058
2.133	-7.17656613	3.33004473	0.03984105	0.82401178	16.53627893	145.19902058
2.150	-6.93044442	2.14268189	0.04958389	1.02558853	393.40413123	68.30023181
2.150	-6.93044443	2.14268194	0.04958389	1.02558848	393.40413123	68.30023181
2.200	-6.25109534	-1.15438143	0.07666494	1.58605867	1440.62370524	59.84022721
2.200	-6.25109536	-1.15438134	0.07666493	1.58605859	1440.62370524	59.84022721
2.250	-5.62144515	-3.98273542	0.09938848	2.05660320	2331.30052642	47.82847208
2.250	-5.62144518	-3.98273531	0.09938847	2.05660310	2331.30052642	47.82847208
2.285	-5.21237242	-5.64233972	0.11229897	2.32410101	2847.42190084	39.46015959
2.285	-5.21237245	-5.64233961	0.11229896	2.32410092	2847.42190084	39.46615959
2.300	-5.03646174	-6.31143023	0.11739127	2.42960239	3053.68016019	35.71185909
2.300	-5.03646177	-6.31143014	0.11739126	2.42960230	3053.68016019	35.71185909
2.350	-4.49630182	-8.14161186	0.13069963	2.70545529	3608.14095641	23.56221427
2.350	-4.49630185	-8.14161175	0.13069962	2.70545530	3608.14095641	23.56221427
2.400	-3.99821582	-9.45598526	0.13910137	2.87982546	3988.16356956	11.42609631
2.400	-3.99821585	-9.45598514	0.13910136	2.87982535	3988.16356956	11.42609631

* * * LRFD STRESS SUMMARY (Based on Input Section)* * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN,LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
2.450	-3.54317343	-10.26044523	0.14267148	2.95421939	4195.96627759	-0.63377520
2.450	-3.54317346	-10.26044510	0.14267147	2.95421928	4195.96627759	-0.63377520
2.500	-3.14759534	-10.65595002	0.14262700	2.95379439	4269.76669385	25.17929325
2.500	-3.14759538	-10.65594989	0.14262699	2.95379428	4269.76669385	25.17929325
2.518	-3.04080065	-10.83893066	0.14339784	2.96994407	4316.51646274	20.75620585
2.518	-3.04080069	-10.83893053	0.14339783	2.96994396	4316.51646274	20.75620585
2.544	-2.90233318	-10.98789146	0.14348308	2.97197251	4346.08101639	14.54878036
2.544	-2.90233321	-10.98789132	0.14348307	2.97197239	4346.08101639	14.54878036
2.550	-2.87026942	-11.00404403	0.14321303	2.96851484	4346.47611560	13.03416149
2.550	-2.87026945	-11.00404389	0.14321302	2.96851472	4346.47611560	13.03416149
2.600	-2.63529768	-10.83762613	0.13912184	2.88221234	4249.19806777	0.90515197
2.600	-2.63529772	-10.83762599	0.13912182	2.88221222	4249.19806777	0.90515197
2.650	-2.44421248	-10.16605049	0.13017064	2.69726086	3981.45813238	-11.15538033
2.650	-2.44421251	-10.16605036	0.13017063	2.69726074	3981.45813238	-11.15538033
2.700	-2.29896268	-9.00122983	0.11660748	2.41667155	3547.75064594	-23.11664971
2.700	-2.29896271	-9.00122971	0.11660747	2.41667144	3547.75064594	-23.11664971

MAX TENSION STRESS BOTTOM FLANGE

2.750	-2.20140725	-7.35451926	0.09857373	2.04331755	2952.35866293	-34.92443997
2.750	-2.20140728	-7.35451916	0.09857373	2.04331746	2952.35866293	-34.92443997
2.800	-2.22505342	-5.86215909	0.08370268	1.73539985	2436.27964575	-90.81640892
2.800	-2.22505344	-5.86215900	0.08370268	1.73539977	2436.27964575	-90.81640892
2.821	-2.30935953	-5.20780728	0.07750336	1.60700407	2215.08094199	-87.14873683
2.821	-2.30935955	-5.20780720	0.07750336	1.60700400	2215.08094199	-87.14873683
2.850	-2.41661869	-4.25774608	0.06879909	1.42669275	1898.61254310	-89.82529651
2.850	-2.41661871	-4.25774600	0.06879908	1.42669268	1898.61254310	-89.82529651
2.900	-2.67926305	-2.49899254	0.05335716	1.10670069	1323.34140127	-93.98541205
2.900	-2.67926307	-2.49899247	0.05335715	1.10670063	1323.34140127	-93.98541205
2.950	-3.07014987	-0.75257335	0.03937447	0.81685325	773.61813461	-78.26507859
2.950	-3.07014988	-0.75257330	0.03937447	0.81685321	773.61813461	-78.26507859
2.973	-3.32792960	-0.20502180	0.03638335	0.75487342	623.67382815	25.25433840
2.973	-3.32792960	-0.20502177	0.03638334	0.75487339	623.67382815	25.25433840
3.000	-3.79659759	-0.29198547	0.04209912	0.87353456	731.97311163	24.74497108

* * * LRFD STRESS SUMMARY (Based on Input Section)* * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN,LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
3.000	-3.79659760	-0.29198543	0.04209912	0.87353453	731.97311163	19.02915139
3.050	-2.46147032	-2.22840467	0.04827402	1.00184780	1192.23670772	111.58175660
3.050	-2.46147033	-2.22840463	0.04827402	1.00184776	1192.23670772	111.58175660
3.100	-1.45733123	-5.04599389	0.06691662	1.38901402	2017.51398619	106.47548942
3.100	-1.45733125	-5.04599383	0.06691662	1.38901397	2017.51398619	106.47548942
3.124	-1.02916048	-6.35841002	0.07600176	1.58816169	2407.02164931	16.85323634
3.150	-0.50339535	-7.24164906	0.07966419	1.71561295	2623.50667895	102.62707117
3.150	-0.50339538	-7.24164906	0.07966418	1.71561288	2623.50667895	102.62707117
3.169	-0.20288410	-8.23290879	0.08675655	1.89827087	2917.61341590	100.23227771
3.169	-0.20288413	-8.23290871	0.08675654	1.89827079	2917.61341590	100.23227771
3.200	0.22881860	-9.73666363	0.09775891	2.17846734	3368.08713474	96.17800234
3.200	0.22881857	-9.73666354	0.09775891	2.17846725	3368.08713474	96.17800234
3.250	0.81216089	-11.93672210	0.11433695	2.59443641	4035.78352946	90.01556576
3.250	0.81216085	-11.93672199	0.11433694	2.59443630	4035.78352946	90.01556576
3.300	1.25180986	-13.80969647	0.12901614	2.95557990	4614.42588963	36.68571973
3.300	1.25180981	-13.80969634	0.12901613	2.95557977	4614.42588963	36.68571973
3.350	1.49846312	-15.65784319	0.14540854	3.33694817	5218.59072432	22.83614066
3.350	1.49846307	-15.65784305	0.14540853	3.33694801	5218.59072432	22.83614066
3.400	1.64883265	-16.88721475	0.15642174	3.59117349	5623.15255675	8.87339152
3.400	1.64883259	-16.88721458	0.15642173	3.59117332	5623.15255675	8.87339152
3.418	1.68048179	-17.16139068	0.15888673	3.64764501	5713.80271021	3.95835414
3.418	1.68048173	-17.16139051	0.15888672	3.64764483	5713.80271021	3.95835414
3.450	1.70711780	-17.47185855	0.16175290	3.71190026	5818.25494827	-5.11940265
3.450	1.70711773	-17.47185838	0.16175288	3.71190008	5818.25494827	-5.11940265
3.465	1.70679191	-17.52079780	0.16223683	3.72194719	5835.64936080	-9.17404169
3.500	1.67260365	-17.41598897	0.16145992	3.70026479	5805.47433497	-19.05293173
3.500	1.67260358	-17.41598879	0.16145991	3.70026461	5805.47433497	-19.05293173
3.543	1.52037393	-17.16935229	0.16042765	3.66191300	5746.63005219	-0.03257248

* * * LRFD STRESS SUMMARY (Based on Input Section)* * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN,LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
3.543	1.52037388	-17.16935213	0.16042763	3.66191284	5746.63005219	-0.03257248
3.548	1.49486454	-17.11180179	0.16009350	3.65197276	5731.05527718	-1.55507396
3.548	1.49486450	-17.11180166	0.16009349	3.65197263	5731.05527717	-1.55507399
3.550	1.48514675	-17.08843755	0.15995150	3.64786435	5724.61687319	-2.11924020
3.550	1.48514670	-17.08843743	0.15995149	3.64786422	5724.61687319	-2.11924040
3.600	1.20077737	-16.14592495	0.15315377	3.46978331	5445.44516745	-16.09803992
3.600	1.20077732	-16.14592483	0.15315376	3.46978318	5445.44516745	-16.09803992
3.618	1.07688301	-15.66134882	0.14943947	3.37577680	5297.86365175	-21.06987609
3.618	1.07688297	-15.66134870	0.14943946	3.37577667	5297.86365175	-21.06987609
3.650	0.82265964	-14.56806468	0.14081040	3.16083156	4960.31235091	-30.09008787
3.650	0.82265960	-14.56806468	0.14081040	3.16083144	4960.31235091	-30.09008787
3.687	0.48120121	-12.99142835	0.12812308	2.84816954	4468.93974364	-40.41670300
3.687	0.48120118	-12.99142823	0.12812307	2.84816943	4468.93974364	-40.41670300
3.700	0.34902034	-12.36561623	0.12305600	2.72375240	4273.27959486	-43.99912411
3.700	0.34902030	-12.36561612	0.12305599	2.72375229	4273.27959486	-43.99912411
3.750	-0.22232792	-9.55187479	0.10005555	2.16192126	3389.36922797	-57.73236351
3.750	-0.22232794	-9.55187469	0.10005554	2.16192118	3389.36922798	-57.73236351
3.756	-0.30467867	-9.22416405	0.09754495	2.09867364	3289.19998287	-103.06850612
3.756	-0.30467713	-9.22415925	0.09754340	2.09867855	3289.19998287	-103.06850612
3.780	-0.67339700	-7.92166915	0.08796528	1.85261408	2898.51619356	-103.69729639
3.780	-0.67339702	-7.92166907	0.08796528	1.85261400	2898.51619356	-103.69729639
3.800	-1.00509624	-6.89498240	0.08084012	1.68314063	2595.10539589	-98.40019042
3.800	-1.00509626	-6.89498232	0.08084011	1.68314056	2595.10539589	-98.40019042
3.805	-1.09766182	-6.72791886	0.08000659	1.66704884	2551.32890569	-10.29035241
3.850	-1.94485235	-4.32943783	0.06417834	1.33652291	1847.66376306	-103.93907739
3.850	-1.94485237	-4.32943777	0.06417833	1.33652285	1847.66376306	-103.93907739
3.900	-3.02066865	-1.44201378	0.04562917	0.95044745	1009.39040525	-108.99602275
3.900	-3.02066866	-1.44201374	0.04562917	0.95044741	1009.39040525	-108.99602275
3.950	-4.25088358	1.65529313	0.02652772	0.55269575	122.76644697	-114.00455458
3.950	-4.25088359	1.65529316	0.02652772	0.55269572	122.76644697	-114.00455458
4.000	-5.78181924	4.06673606	0.01752107	0.36513249	-472.39119089	-28.49839499

* * * LRFD STRESS SUMMARY (Based on Input Section)* * *
STRESSES IN (ksi)
IMPACT INCLUDED

SPAN,LOC	TOP FLANGE	BOT FLANGE	TOP OF SLAB	TOP REINF	MOMENT(in-kips)	SHEAR(kips)
4.000	-5.78181924	4.06673608	0.01752106	0.36513248	-472.39119089	12.33418258
4.050	-4.57430193	1.90811479	0.02722638	0.56751435	87.50748766	116.47093655
4.050	-4.57430194	1.90811482	0.02722638	0.56751432	87.50748766	116.47093656
4.052	-4.53649151	1.79565142	0.02798828	0.58340060	120.84683986	116.29588972
4.052	-4.53649152	1.79565146	0.02798828	0.58340057	120.84683985	116.29588972
4.100	-3.63894375	-0.96124997	0.04695640	0.97899667	943.02481274	111.72735082
4.100	-3.63894377	-0.96124992	0.04695639	0.97899663	943.02481274	111.72735082
4.108	-3.49492459	-1.42231161	0.05018906	1.04643538	1081.54265960	110.92788913
4.108	-3.49492460	-1.42231156	0.05018906	1.04643533	1081.54265960	110.92788913
4.150	-2.82860254	-3.64008447	0.06600832	1.37644895	1752.22391309	106.83844526
4.150	-2.82860256	-3.64008441	0.06600831	1.37644891	1752.22391309	106.83844526
4.200	-2.13621078	-6.08479960	0.08386424	1.74908295	2498.57865278	101.28294995
4.200	-2.13621080	-6.08479953	0.08386423	1.74908289	2498.57865278	101.28294995
4.250	-1.60142048	-8.53778789	0.10339991	2.15689215	3274.07849272	47.29510025
4.250	-1.60142050	-8.53778780	0.10339990	2.15689207	3274.07849272	47.29510025
4.262	-1.49899116	-9.17389243	0.10883369	2.27033873	3481.20975287	44.18527605
4.300	-1.20814395	-10.95396285	0.12398946	2.60179954	4058.01027686	39.73100462
4.300	-1.20814398	-10.95396274	0.12398945	2.60179944	4058.01027686	39.73100462