

Bridge Load Rating

Prepared for

Maine Department of Transportation

Bridge No. 2771

BANGOR

ROUTE 115

OVER

KENDUSKEAG STREAM

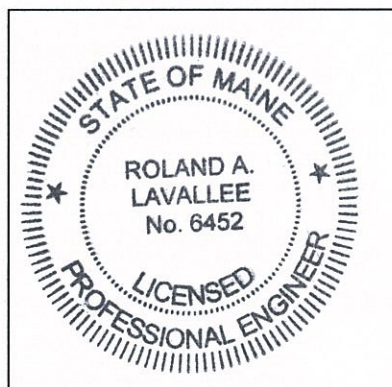
Date of Inspection: 1/2/2013

Date of Rating: 5/23/2013

Prepared By: HME

Checked By: AJF

HNTB Corporation



Roland A. Lavallee 5/21/14
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DESCRIPTION OF BRIDGE

Bridge Number:	2771
Owner:	STATE HIGHWAY AGENCY
Maintained By:	STATE HIGHWAY AGENCY
Location:	BANGOR
Route Carried:	ROUTE 115
Feature Intersected:	KENDUSKEAG STREAM
Latest NBI Inspection Date:	1/2/2013
Field Verification Date:	N/A
Date of Construction:	1979
Bridge Type:	STEEL GIRDER BRIDGE WITH CAST-IN-PLACE CONCRETE DECK
Material Properties:	GIRDER: $f_y = 36$ KSI
Original Design Loading:	LIVE LOAD: H20
Date(s) of Rebuild/Rehab :	N/A
Description of Rebuild/Rehab :	N/A
Posting:	N/A
Superstructure:	CONCRETE DECK, ROLLED STEEL GIRDERS
Substructure:	CONCRETE ABUTMENTS
Bearings:	STEEL PLATE
Bridge Spans:	TOTAL LENGTH = 140'-0" (c. - c. brg.) SPAN 1 = 70'-0", SPAN 2 = 70'-0"
Bridge Skew:	0°0'0"
Bridge Width:	42'-8" OUT-TO-OUT
Roadway Width:	38'-10" CURB-TO-CURB
Roadway Surface:	3-1/2" STRUCTURAL CONCRETE WEARING SURFACE
Curbs:	CONCRETE AND GRANITE CURB
Sidewalk/Walkway/Median:	N/A
Utilities:	N/A
Bridge Railing:	2 BAR ALUMINUM BRIDGE RAILING
Approach Railing:	SINGLE RAIL STEEL GUARDRAIL
Wearing Surface Condition:	NOT KNOWN
Bridge Railing Condition:	NOT KNOWN
Deck Condition:	7 GOOD
Beam Condition:	7 GOOD
Bearing Condition:	NOT KNOWN
Abutment Condition:	8 VERY GOOD
Pier Condition:	8 VERY GOOD

Bridge No: 2771
 Town/City: BANGOR
 Route Carried: ROUTE 115
 Crosses: KENDUSKEAG STREAM

Owner: STATE HIGHWAY AGENCY
 Maintainer: STATE HIGHWAY AGENCY
 Year Built 1979
 Year(s) Rebuilt/Rehab: N/A

SUMMARY OF BRIDGE RATING

VEHICLE TYPE		RF	RT (TONS)	POSTING LOAD (TONS)
HL-93	INVENTORY	1.94	69.84	
	OPERATING	2.52	90.72	
HL-93 modified	INVENTORY	0.00	0.00	
	OPERATING	0.00	0.00	
CONFIGURATION 1		N/A	N/A	OK
CONFIGURATION 2		N/A	N/A	OK
CONFIGURATION 3		N/A	N/A	OK
CONFIGURATION 4		N/A	N/A	OK
CONFIGURATION 5		N/A	N/A	OK
CONFIGURATION 6		N/A	N/A	OK
CONFIGURATION 7		N/A	N/A	OK
CONFIGURATION 8		N/A	N/A	OK

Group 1 Posting Analysis (Configuration 1)

Governing Posting: N/A
 Governing Load Model: N/A

Group 2 Posting Analysis (Configurations 2 - 5)

Governing Posting: N/A
 Governing Load Model: N/A

Group 3 Posting Analysis (Configurations 6 - 8)

Governing Posting: N/A
 Governing Load Model: N/A

LRFR Evaluation Factors:

Live Load Distribution Factor: Modeled with BDGS
 Live Load DF Routine Commercial: N/A
 Live Load DF Special Hauling: N/A
 Impact Factor: 0.33
 Governing Condition Factor, ϕ_c : 1.00
 System Factor, ϕ_s : 1.00
 ADTT (one-way): 495

Please check all the boxes that apply:

- ☐ Bridge load rating is governed by substructure rating
- ☐ Connections control the load rating
- ☐ Exterior girder controls load rating
- ☒ As-built load rating
- ☐ As-inspected load rating
- ☐ One Lane Loaded
- ☒ Advanced Analysis Used
- ☐ Actual Measurements Taken
- ☐ Finite Fatigue Life _____ years

BREAKDOWN OF BRIDGE RATING

Town/City: BANGOR
Bridge No: 2771

Route Carried: ROUTE 115
Crosses: Kenduskeag Stream

LOAD RATING POINTS OF INTEREST

Bridge Component	HL-93		HL-93 Modified		MaineDOT Truck Configurations							
	Inv 72.0 kip	Oper 72.0 kip	Inv 90.0 kip	Oper 90.0 kip	1 100.0 kip	2 94.0 kip	3 88.0 kip	4 88.0 kip	5 88.0 kip	6 75.9 kip	7 59.4 kip	8 37.4 kip
Interior Girder Flexure 1.0L of Span 1	1.94	2.52										
Exterior Girder Flexure 1.0L of Span 1	2.32	3.01										
[COMPONENT] [LIMIT STATE] [ANALYZED CONDITION]												
[COMPONENT] [LIMIT STATE] [ANALYZED CONDITION]												
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CONTROLLING RATING FACTORS	1.94	2.52			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes and Assumptions:**References Used:**

- The Manual for Bridge Evaluation (MBE), Second Edition, 2011 w/ 2013 & 2014 Interims, AASHTO
- AASHTO LRFD Bridge Design Specifications (LRFD), Sixth Edition, 2012, AASHTO
- MaineDOT Load Rating Guide, 2013

General Notes:

This load rating was performed in accordance with the Maine Department of Transportation guidelines. The calculations herein reflect one method of analysis. The analysis was performed based on the MBE code-prescribed analytical procedures. A proprietary bridge design and analysis program developed by HNTB Corporation, BDGS, was used to develop load ratings for the Design Load and State Legal Loads (when necessary).

The girders were rated for the HL-93 design load. If the Inventory Rating Factor was less than 1.0, the controlling girder was also rated for the eight MaineDOT Legal Load Configurations.

The Six Mile Falls Bridge is a 140 ft long 2-span continuous steel girder structure built in 1979. The structure is composite and consists of a six-girder cross section with a concrete deck.

In controlling negative moment locations where a flange transition occurs between brace point, a refined analysis was performed as permitted per AASHTO LRFD C6.10.8.2.3.

Condition Factors:

A condition factor of 1.0 was used due to the "Good" superstructure condition reported in the Structural Inventory and Appraisal Sheet.

Assumptions:

- Material Strength: Steel: $F_y = 36$ ksi per AASHTO Table 6B.5.2.1-1
- Material Strength: Concrete: $f'_c = 3.0$ ksi
- Beam Sizes: 36 WF 160, 36 WF 135
- Straight Girders, Composite
- Capacity checked with AASHTO LRFD Specification 6.10 or Appendix A6
- Superimposed dead loads are distributed equally to all girders
- Continuous lateral bracing of top flange assumed per MBE 6A.6.9.3.
- Splices were not evaluated.
- The structural steel dead load has been increased by 5% to account for splices, miscellaneous components, and hardware.
- For the analysis of exterior girders, the first wheel load was positioned on the edge of travel lane which reflects recommendations from national experts and FHWA seminar information (NHI Course 130092).

LOAD RATING ANALYSIS

LOAD DEVELOPMENT

Thickened Deck at Overhang

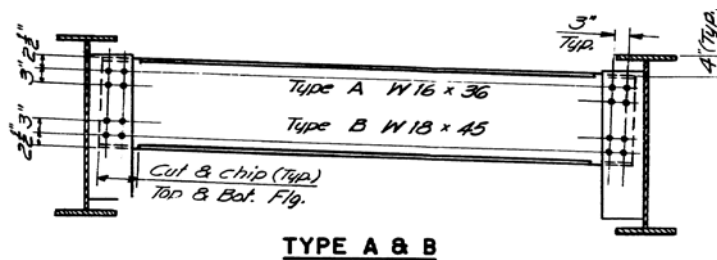
Overhang Width: $w_{oh} := 3.26 \cdot \text{ft}$ $\text{avg_}t_{oh} := 8.5 \cdot \text{in}$

Overhang Weight: $DL_{oh} := w_{oh} \cdot \text{avg_}t_{oh} \cdot 150 \cdot \text{pcf} = 346.4 \cdot \text{plf}$

Exterior Deck Bay Weight: $DL_{\text{deck_fascia}} := \left(DL_{oh} + \frac{DL_{\text{deck_int}}}{2} \right) = 0.745 \cdot \text{klf}$

Bracing

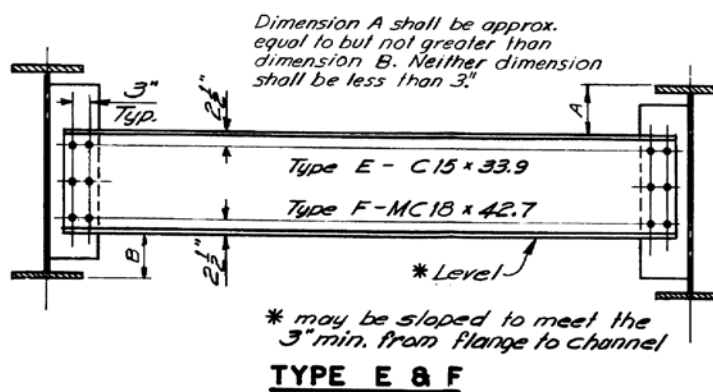
Diaphragm



$no_{\text{diaph_A}} := 2$ per girder line

$wt_{\text{dia_A}} := 36 \cdot \text{plf}$ $L_{\text{dia_A}} := 7.156 \cdot \text{ft}$ $wt_{\text{cnx}} := \left(6 \cdot \frac{3}{8} \cdot \text{in} \cdot 31.46 \cdot \text{in} \right) \cdot 490 \cdot \text{pcf} = 20 \cdot \text{lb}$

$DL_{\text{dia_A}} := wt_{\text{dia_A}} \cdot L_{\text{dia_A}} + 2 \cdot wt_{\text{cnx}} = 298 \cdot \text{lb}$



$$no_{diaph_E} := 7 \quad \text{per girder line}$$

$$wt_{dia_E} := 33.9 \cdot plf \quad L_{dia_E} := 7.2ft$$

$$DL_{dia_E} := wt_{dia_E} \cdot L_{dia_E} + wt_{cnx} \cdot 2 = 284 \cdot lbf$$

$$DL_{bracing} := (DL_{dia_A} \cdot no_{diaph_A} + DL_{dia_E} \cdot no_{diaph_E}) \cdot \left(\frac{1}{L_{bridge}} \right) = 0.018 \cdot klf$$

Utilities (N/A)

Water Main: $DL_{util_1} := 0 \cdot plf$

Conduits: $DL_{util_2} := 0 \cdot plf \quad DL_{util} := DL_{util_1} + DL_{util_2} = 0 \cdot klf$

Composite Dead Load

Curb/Rail Base

$$no_{curb} := 2$$

Curb Concrete: $h_{curb} := 13.5in \quad w_{curb} := 17 \cdot in \quad A_{curb} := h_{curb} \cdot w_{curb}$

Curb Granite: $h_{gran} := 11in \quad w_{gran} := 6 \cdot in \quad A_{gran} := h_{gran} \cdot w_{gran}$

$$DL_{curb} := \frac{no_{curb} \cdot (A_{curb} \cdot 150 \cdot pcf + A_{gran} \cdot 170 \cdot pcf)}{no_{girder}} = 0.106 \cdot klf$$

Sidewalk

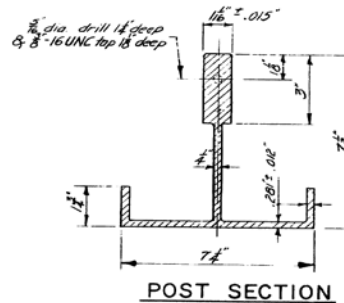
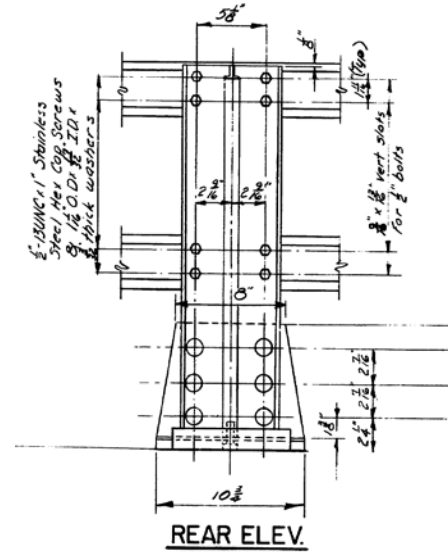
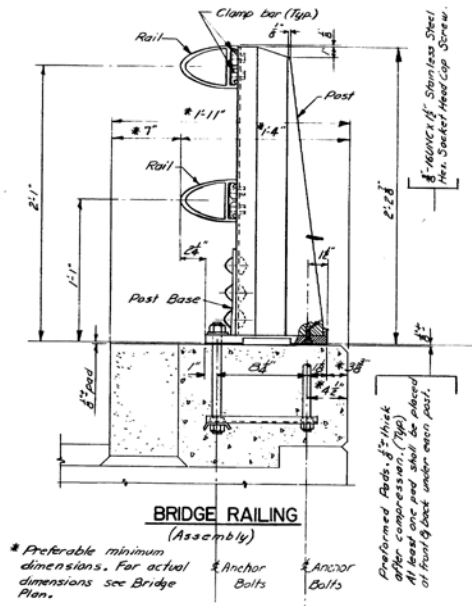
$$no_{sdwk} := 0$$

Sidewalk Concrete: $h_{sdwk} := 0 \cdot in \quad w_{sdwk} := 0 \cdot in \quad A_{sdwk} := h_{sdwk} \cdot w_{sdwk}$

Sidewalk Granite: $h_{gran} := 0 \cdot in \quad w_{gran} := 0 \cdot in \quad A_{sdwk_gran} := h_{gran} \cdot w_{gran}$

$$DL_{sdwk} := \frac{no_{sdwk} \cdot (A_{sdwk} \cdot 150 \cdot pcf + A_{sdwk_gran} \cdot 170 \cdot pcf)}{no_{girder}} = 0 \cdot klf$$

Barrier/Railing



Post Area: $A_{\text{post}} := 3\text{in} \cdot 1.0625\text{in} + 4.5\text{in} \cdot 0.25\text{in} + 2 \cdot 3.5\text{in} \cdot 0.281\text{in} + 2 \cdot (1.75\text{in} - 0.281\text{in}) \cdot 0.281\text{in} = 7.11 \cdot \text{in}^2$

Post Weight: $w_{\text{post}} := (2\text{ft} + 2.875\text{in}) \cdot A_{\text{post}} \cdot (171\text{pcf}) \cdot 1.5 = 28.34 \cdot \text{lbf}$ increase by 50% for conn. hardware

Rail Area: $A_{\text{rail}} := 0.027\text{ft}^2$ see Microstation DWG "Rail Dimensions.dgn"

Rail Weight: $w_{\text{rail}} := A_{\text{rail}} \cdot (171\text{pcf}) = 4.62 \cdot \frac{\text{lbf}}{\text{ft}}$

$DL_{\text{rail}} := w_{\text{rail}} \cdot 2 + \frac{w_{\text{post}}}{8\text{ft}} = 0.013 \cdot \text{klf}$ posts spaced at 8'-0"

$DL_{\text{barrier}} := \left(13 \frac{\text{lbf}}{\text{ft}} \cdot 2 \cdot 2 \right) \frac{1}{n_{\text{ogirder}}} = 0.009 \cdot \text{klf}$

Wearing Surface

Thickness of Overlay: $t_{\text{overlay}} := 3.5\text{in}$

Roadway Width: $w_{\text{rdwy}} := 38.83\cdot\text{ft}$

Weight of Overlay: $DL_{\text{overlay}} := t_{\text{overlay}} \cdot w_{\text{rdwy}} \cdot 150\cdot\text{pcf} = 1.699\cdot\text{klf}$

Weight per Girder: $DL_{\text{WS}} := \frac{DL_{\text{overlay}}}{n_{\text{girder}}} = 0.283\cdot\text{klf}$

Summary of Superstructure Loads

DC1 - Noncomposite Dead Loads

Girder Self-weight: $DL_{\text{girder}} = 0.166\cdot\text{klf}$

Concrete Deck, Interior: $DL_{\text{deck_int}} = 0.797\cdot\text{klf}$

Concrete Deck, Fascia: $DL_{\text{deck_fascia}} = 0.745\cdot\text{klf}$

Haunch: $DL_{\text{hnh}} = 0.059\cdot\text{klf}$

Bracing_Interior Girder: $DL_{\text{bracing_int}} := DL_{\text{bracing}} = 0.018\cdot\text{klf}$

Bracing_Exterior Girder: $DL_{\text{bracing_ext}} := \frac{DL_{\text{bracing}}}{2} = 0.009\cdot\text{klf}$

Utilities: $DL_{\text{util}} = 0\cdot\text{klf}$

Composite Dead Loads - Calculated loads are per girder (Loads distributed equally to all girders)

Curb/Base: $DL_{\text{curb}} = 0.106\cdot\text{klf}$

Sidewalk: $DL_{\text{sdwk}} = 0\cdot\text{klf}$

Barrier/Railing: $DL_{\text{barrier}} = 0.009\cdot\text{klf}$

Wearing Surface: $DL_{\text{WS}} = 0.283\cdot\text{klf}$

AASHTO LRFD - Distribution Factors for Concrete Slab on Steel Girders

(Positive Moment Regions Span 1, Negative Moment Region Pier 1)

INPUT

Girder Plate Dimensions

$$b := \begin{pmatrix} 12.0 \cdot \text{in} \\ 33.96 \cdot \text{in} \\ 12.0 \cdot \text{in} \end{pmatrix} \quad t := \begin{pmatrix} 1.02 \cdot \text{in} \\ .65 \cdot \text{in} \\ 1.02 \cdot \text{in} \end{pmatrix} \quad \begin{matrix} \text{Top Flange} \\ \text{Web} \\ \text{Bottom Flange} \end{matrix}$$

$$\begin{aligned} S &:= 7.5 \cdot \text{ft} && \text{Girder Spacing} && \text{Skew_Angle} &:= 0 \cdot \text{deg} \\ t_s &:= 8.5 \cdot \text{in} && \text{Slab Thickness} && \theta &:= \text{Skew_Angle} = 0 \\ d_e &:= .96 \cdot \text{ft} && \text{Distance from CL girder to curb} && f_c &:= 3000 \cdot \text{psi} \\ N_b &:= 6 && \text{Number of beams in typical section} && \\ L &:= 70 \cdot \text{ft} && \text{Span Length (See LRFD Table C4.6.2.2.1-1)} && \\ t_h &:= 2 \cdot \text{in} && \text{Haunch Height (Meas. From top of flange)} && \end{aligned}$$

GIRDER SECTION PROPERTIES non-composite (LRFD 4.6.2.2.1)

$$A := b_0 \cdot t_0 + b_1 \cdot t_1 + b_2 \cdot t_2 \quad A = 46.554 \cdot \text{in}^2$$

$$y_{\text{bar}} := \frac{b_0 \cdot t_0 \cdot \frac{t_0}{2} + b_1 \cdot t_1 \cdot \left(t_0 + \frac{b_1}{2} \right) + b_2 \cdot t_2 \cdot \left(t_0 + b_1 + \frac{t_2}{2} \right)}{A} \quad y_{\text{bar}} = 18 \cdot \text{in}$$

$$A y_{\text{bar}}^2 := b_0 \cdot t_0 \cdot \left(\frac{t_0}{2} \right)^2 + b_1 \cdot t_1 \cdot \left(t_0 + \frac{b_1}{2} \right)^2 + b_2 \cdot t_2 \cdot \left(t_0 + b_1 + \frac{t_2}{2} \right)^2 \quad A y_{\text{bar}}^2 = 22571.93 \cdot \text{in}^4$$

$$I_o := \frac{1}{12} \cdot b_0 \cdot (t_0)^3 + \frac{1}{12} \cdot t_1 \cdot (b_1)^3 + \frac{1}{12} \cdot b_2 \cdot (t_2)^3 \quad I_o = 2123.584 \cdot \text{in}^4$$

$$I := I_o + A y_{\text{bar}}^2 - A \cdot y_{\text{bar}}^2 \quad I = 9612.018 \cdot \text{in}^4$$

$$i := 0..2$$

$$J := \frac{1}{3} \cdot \left[\sum_i \left[b_i \cdot (t_i)^3 \right] \right] \quad \text{St. Venant's Torsional Inertia (LRFD Eq. C4.6.2.2.1-1)} \quad J = 11.598 \cdot \text{in}^4$$

DISTRIBUTION FACTOR FOR MOMENT IN INTERIOR GIRDER

$$E_G := 29000 \cdot \text{ksi}$$

Girder Modulus of Elasticity

$$E_D := 1820 \cdot \text{ksi} \cdot \sqrt{\frac{f_c}{\text{ksi}}}$$

$$E_D = 3152 \cdot \text{ksi}$$

Deck Modulus of Elasticity (LRFD Eq. C5.4.2.4-1)

$$n := \frac{E_G}{E_D}$$

$$n = 9.2$$

Modular Ratio (LRFD Eq. 4.6.2.2.1-2)

$$e_g := \frac{t_s}{2} + t_h + y_{\text{bar}}$$

$$e_g = 24.25 \cdot \text{in}$$

Distance between Centers of Gravity of Basic Girder and Deck

$$K_g := n \cdot (I + A \cdot e_g^2)$$

$$K_g = 340278.74 \cdot \text{in}^4$$

Longitudinal Stiffness Parameter (LRFD Eq. 4.6.2.2.1-1)

Range of Applicability: $10,000 \text{ in}^4 \leq K_g \leq 7,000,000 \text{ in}^4$

$$\text{mgSI}_M := 0.06 + \left(\frac{S}{14 \cdot \text{ft}} \right)^{0.4} \left(\frac{S}{L} \right)^{0.3} \cdot \left(\frac{K_g}{L \cdot t_s^3} \right)^{0.1}$$

Distribution Factor for One Design Lane
(LRFD Table 4.6.2.2.2b-1)

$$\text{mgSI}_M = 0.442$$

$$\text{mgMI}_M := 0.075 + \left(\frac{S}{9.5 \cdot \text{ft}} \right)^{0.6} \left(\frac{S}{L} \right)^{0.2} \cdot \left(\frac{K_g}{L \cdot t_s^3} \right)^{0.1}$$

Distribution Factor for Two or More Design Lanes
(LRFD Table 4.6.2.2.2b-1)

$$\text{mgMI}_M = 0.608$$

DISTRIBUTION FACTOR FOR MOMENT IN EXTERIOR GIRDER

$$\text{mgSE}_M := 1.2 \cdot 0.5 \cdot \left[\frac{S + d_e - 2 \cdot \text{ft}}{S} + \frac{(S + d_e - 8 \cdot \text{ft})}{S} \right]$$

Distribution Factor for One Design Lane
(LRFD Table 4.6.2.2.2d-1, Lever Rule)

$$\text{mgSE}_M = 0.554$$

$$e := 0.77 + \frac{\frac{d_e}{\text{ft}}}{9.1}$$

$$e = 0.875$$

Ratio for multiple lanes

$$\text{mgME}_M := e \cdot \text{mgMI}_M$$

Distribution Factor for Two or More Design Lanes
(LRFD Table 4.6.2.2.2d-1)

$$\text{mgME}_M = 0.532$$

DISTRIBUTION FACTOR FOR SHEAR IN INTERIOR GIRDER

$$\text{mgSI}_V := 0.36 + \frac{S}{25 \cdot \text{ft}}$$

Distribution Factor for One Design Lane
(LRFD Table 4.6.2.2.3a-1)

$$\text{mgSI}_V = 0.66$$

$$\text{mgMI}_V := 0.2 + \frac{S}{12 \cdot \text{ft}} - \left(\frac{S}{35 \cdot \text{ft}} \right)^{2.0}$$

Distribution Factor for Two or More Design Lanes
(LRFD Table 4.6.2.2.3a-1)

$$\text{mgMI}_V = 0.779$$

DISTRIBUTION FACTOR FOR SHEAR IN EXTERIOR GIRDER

$$\text{mgSE}_V := 1.2 \cdot 0.5 \cdot \left[\frac{S + d_e - 2 \cdot \text{ft}}{S} + \frac{(S + d_e - 8 \cdot \text{ft})}{S} \right]$$

Distribution Factor for One Design Lane
(LRFD Table 4.6.2.2.3b-1, Lever Rule)

$$\text{mgSE}_V = 0.554$$

$$e := 0.6 + \frac{d_e}{10} \quad e = 0.696 \quad \text{Ratio for multiple lanes}$$

$$mgME_V := e \cdot mgMI_V \quad \text{Distribution Factor for Two or More Design Lanes (LRFD Table 4.6.2.2.3b-1, Lever Rule)} \quad mgME_V = 0.542$$

CORRECTION FOR SKEWED SUPPORTS

$$1.0 + 0.20 \left(\frac{L \cdot t_s^3}{K_g} \right)^{0.3} \cdot \tan(\theta) = 1 \quad \text{(LRFD Table 4.6.2.2.3c-1)}$$

DISTRIBUTION FACTOR FOR BEAM SLAB-BRIDGE CROSS SECTIONS WITH CROSS DIAPHRAGMS

$$n_g := 1..(N_b - 1)$$

$$x_0 := d_e \quad \text{Distance to centroid of 1st girder (left curb = 0).}$$

$$x_{n_g} := x_{n_g-1} + S \quad \text{Distance to centroid of remaining girders.}$$

$$m := \begin{pmatrix} 1.2 \\ 1.0 \\ 0.85 \\ 0.65 \end{pmatrix} \quad \text{Multiple Presence Factor (LRFD Table 3.6.1.1.2-1)}$$

$$i_g := 0..(N_b - 1)$$

$$x_{bar} := \frac{\sum x_{i_g}}{N_b} \quad x_{bar} = 19.71 \cdot \text{ft} \quad \text{Distance to centroid of girder pattern.}$$

$$I_x := \sum (x_{bar} - x_{i_g})^2 \quad I_x = 984.375 \cdot \text{ft}^2 \quad \text{Moment of inertia of girder pattern.}$$

$$X_{ext} := x_{bar} - x_0 \quad X_{ext} = 18.75 \cdot \text{ft} \quad \text{Horizontal distance from the center of gravity of the pattern of girders to each girder.}$$

$$w := 2 \cdot d_e + (N_b - 1) \cdot S \quad w = 39.42 \cdot \text{ft} \quad \text{Curb to Curb Width}$$

$$N_L := \begin{cases} 2 & \text{if } 20 \cdot \text{ft} \leq w \leq 24 \cdot \text{ft} \\ \text{trunc}\left(\frac{w}{12 \cdot \text{ft}}\right) & \text{otherwise} \end{cases} \quad N_L = 3 \quad \text{Maximum Number of Lanes}$$

$$e_{l_0} := x_{bar} - 5 \cdot \text{ft} \quad \text{Eccentricity of 1st lane from center of gravity of girder pattern.}$$

$$n_l := 1 \dots (N_L - 1)$$

Eccentricity of remaining lanes from center of gravity of girder pattern.

$$e_{l_{n_l}} := e_{l_{n_l-1}} - 12 \cdot \text{ft}$$

$$l_{\max} := \begin{cases} N_L & \text{if } N_L < 4 \\ 4 & \text{otherwise} \end{cases}$$

$$l := 0 \dots (l_{\max} - 1)$$

Lane case counter

$$N_{i_l} := \begin{cases} (l + 1) & \text{if } (l + 1) < 4 \\ N_L & \text{otherwise} \end{cases}$$

Number of lanes this case

$$mgR_l := \left[\frac{N_{i_l}}{N_b} + \frac{X_{\text{ext}} \cdot \left(\sum_{k=0}^{N_{i_l}-1} e_{l_k} \right)}{I_x} \right] \cdot m_l$$

(LRFD Eq. C4.6.2.2.2d-1)

$$mgR = \begin{pmatrix} 0.536 \\ 0.665 \\ 0.557 \end{pmatrix}$$

$$mgR := \max(mgR)$$

$$mgR = 0.665$$

DISTRIBUTION FACTOR FOR DEFLECTION

$$mgDEFL_l := \frac{\begin{cases} (l + 1) & \text{if } (l + 1) < 4 \\ N_L & \text{otherwise} \end{cases}}{N_b} \cdot m_l$$

$$mgDEFL := \max(mgDEFL)$$

 Distribution Factor for Deflection
 (LRFD Section 2.5.2.6.2)

$$mgDEFL = 0.425$$

SECTION PROPERTIES

Calculated Girder Section Properties & Stresses

Load Combination: STRENGTH I - Interior Girder at Pier 1

SECTION PROPERTIES

Slab Thickness:	8.5 (in.)	### = User Entered Field
Effective Width:	90 (in.)	
f'c:	3000 (psi)	
Modular Ratio:	9	
Haunch Thickness:	2.02 (in.)	= 29,000 / [1820√(f'c/1000)] (reference: top of web)

STEEL

Element	x dim. (in.)	y dim. (in.)	y adj. (in.)	A (in. ²)	y _{bar} (in.)	A*y _{bar} (in. ³)	A*y _{bar} ² (in. ⁴)	I _o (in. ⁴)
Top Rebar	X	X	X	3.08	7.5825	23.316	176.795	0.000
Bot. Rebar	X	X	X	2.48	3.9575	9.795	38.763	0.000
PL 5	12	1.02	0	12.240	0.510	6.242	3.184	1.061
PL 3	0	0	0	0.000	0.000	0.000	0.000	0.000
PL 1	0	0	0	0.000	0.000	0.000	0.000	0.000
Web PL	0.65	33.96	0	22.074	-16.980	-374.817	6364.385	2121.462
PL 2	0	0	0	0.000	-33.960	0.000	0.000	0.000
PL 4	0	0	0	0.000	-33.960	0.000	0.000	0.000
PL 6	12	1.02	0	12.240	-34.470	-421.913	14543.334	1.061
Σ		36				-790.487	20910.902	2123.584
Sect. Properties		wt. (kip/ft.)	0.158	46.554	-16.980			9612.018

w/Slab @ n= 28

	x dim. (in.)	y dim. (in.)	y adj. (in.)	A (in. ²)	y _{bar} (in.)	A*y _{bar} (in. ³)	A*y _{bar} ² (in. ⁴)	I _o (in. ⁴)
Eff. Slab	3.261	0		0.000	2.020	0.000	0.000	0.000
Σ						-757.376	21126.460	2123.584
Sect. Properties				52.104	-14.536			12240.942

Note: Slab concrete not considered to contribute to flexural resistance in negative moment regions.

w/Slab @ n= 9

	x dim. (in.)	y dim. (in.)	y adj. (in.)	A (in. ²)	y _{bar} (in.)	A*y _{bar} (in. ³)	A*y _{bar} ² (in. ⁴)	I _o (in. ⁴)
Eff. Slab	9.783	0		0.000	6.270	0.000	0.000	0.000
Σ						-757.376	21126.460	2123.584
Sect. Properties				52.104	-14.536			12240.942

Load	Fact. Moment (ft.-kip)	Location	PL 5		PL 3		PL 1	
			S (in. ³)	σ (ksi)	S (in. ³)	σ (ksi)	S (in. ³)	σ (ksi)
DC1	0	Top	-534.0	0.000	-566.1	0.000	-566.1	0.000
		Bottom	-566.1	0.000	-566.1	0.000	-566.1	0.000
		Average	0.000		0.000		0.000	
DC2	0	Top	-786.9	0.000	-842.1	0.000	-842.1	0.000
		Bottom	-842.1	0.000	-842.1	0.000	-842.1	0.000
		Average	0.000		0.000		0.000	
DW	0	Top	-786.9	0.000	-842.1	0.000	-842.1	0.000
		Bottom	-842.1	0.000	-842.1	0.000	-842.1	0.000
		Average	0.000		0.000		0.000	
LL+I	0	Top	-786.9	0.000	-842.1	0.000	-842.1	0.000
		Bottom	-842.1	0.000	-842.1	0.000	-842.1	0.000
		Average	0.000		0.000		0.000	
Σ		Top	0.000		0.000		0.000	
		Bottom	0.000		0.000		0.000	
		Average	0.000		0.000		0.000	

Load	Fact. Moment (ft.-kip)	Location	PL 6		PL 4		PL 2	
			S (in. ³)	σ (ksi)	S (in. ³)	σ (ksi)	S (in. ³)	σ (ksi)
DC1	0	Top	566.1	0.000	566.1	0.000	566.1	0.000
		Bottom	534.0	0.000	566.1	0.000	566.1	0.000
		Average	0.000		0.000		0.000	
DC2	0	Top	630.2	0.000	630.2	0.000	630.2	0.000
		Bottom	598.8	0.000	630.2	0.000	630.2	0.000
		Average	0.000		0.000		0.000	
DW	0	Top	630.2	0.000	630.2	0.000	630.2	0.000
		Bottom	598.8	0.000	630.2	0.000	630.2	0.000
		Average	0.000		0.000		0.000	
LL+I	0	Top	630.2	0.000	630.2	0.000	630.2	0.000
		Bottom	598.8	0.000	630.2	0.000	630.2	0.000
		Average	0.000		0.000		0.000	
Σ		Top	0.000		0.000		0.000	
		Bottom	0.000		0.000		0.000	
		Average	0.000		0.000		0.000	

Load	Fact. Moment (ft.-kip)	Location	Web PL		Slab	
			S (in. ³)	σ (ksi)	S (in. ³)	σ (ksi)
DC1	0	Top	-566.1	0.000		
		Bottom	566.1	0.000		
DC2	0	Top	-842.1	0.000	-488.5	0.000
		Bottom	630.2	0.000	-739.4	0.000
DW	0	Top	-842.1	0.000	-488.5	0.000
		Bottom	630.2	0.000	-739.4	0.000
LL+I	0	Top	-842.1	0.000	-488.5	0.000
		Bottom	630.2	0.000	-739.4	0.000
Σ		Top		0.000		0.000
		Bottom		0.000		0.000

* Longitudinal flexural stresses in the concrete deck due to all permanent and transient loads, the short term modular ratio, n, shall be used per LRFD 6.10.1.1.1d

EXTERIOR GIRDER LOAD RATING

----- GIRDER 1 DATA -----

GIRDER 1 LABEL: S1 (Continued)

TOP FLANGE PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	WIDTH	MATERIAL
(ft)	(ft)	(in)	(in)	
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	WIDTH	MATERIAL
(ft)	(ft)	(in)	(in)	
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	BEGIN DEPTH	END DEPTH	MATERIAL
(ft)	(ft)	(in)	(in)	(in)	
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN	END	TOP	TOP	BTM	BTM	TOTAL	MATERIAL
DIST	DIST	LAYER	LAYER	LAYER	LAYER	AREA	
(ft)	(ft)	BAR AREA	DIST c	BAR AREA	DIST c	AREA	
(ft)	(ft)	(in ²)	(in)	(in ²)	(in)	(in ²)	
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

----- GIRDER 2 DATA -----

GIRDER 2 LABEL: S2

SHAPE: I-Section

TOP FLANGE PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	WIDTH	MATERIAL
(ft)	(ft)	(in)	(in)	
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	WIDTH	MATERIAL
(ft)	(ft)	(in)	(in)	
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	BEGIN DEPTH	END DEPTH	MATERIAL
(ft)	(ft)	(in)	(in)	(in)	
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN	END	TOP LAYER	TOP LAYER	BTM LAYER	BTM LAYER	TOTAL	
DIST	DIST	BAR AREA	DIST c	BAR AREA	DIST c	AREA	MATERIAL
(ft)	(ft)	(in²)	(in)	(in²)	(in)	(in²)	
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

□

----- GIRDER 3 DATA -----

GIRDER 3 LABEL: S3
 SHAPE: I-Section

TOP FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	BEGIN DEPTH (in)	END DEPTH (in)	MATERIAL
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN DIST (ft)	END DIST (ft)	TOP LAYER BAR AREA (in ²)	TOP LAYER DIST c (in)	BTM LAYER BAR AREA (in ²)	BTM LAYER DIST c (in)	TOTAL AREA (in ²)	MATERIAL
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

----- GIRDER 4 DATA -----

GIRDER 4 LABEL: S4
 SHAPE: I-Section

TOP FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	BEGIN DEPTH (in)	END DEPTH (in)	MATERIAL
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN DIST (ft)	END DIST (ft)	TOP LAYER BAR AREA (in ²)	TOP LAYER DIST c (in)	BTM LAYER BAR AREA (in ²)	BTM LAYER DIST c (in)	TOTAL AREA (in ²)	MATERIAL
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

□

----- GIRDER 5 DATA -----

GIRDER 5 LABEL: S5
 SHAPE: I-Section

TOP FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	BEGIN DEPTH (in)	END DEPTH (in)	MATERIAL
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN DIST (ft)	END DIST (ft)	TOP LAYER BAR AREA (in ²)	TOP LAYER DIST c (in)	BTM LAYER BAR AREA (in ²)	BTM LAYER DIST c (in)	TOTAL AREA (in ²)	MATERIAL
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

----- GIRDER 6 DATA -----

GIRDER 6 LABEL: S6
 SHAPE: I-Section

TOP FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	BEGIN DEPTH (in)	END DEPTH (in)	MATERIAL
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN DIST (ft)	END DIST (ft)	TOP LAYER BAR AREA (in ²)	TOP LAYER DIST c (in)	BTM LAYER BAR AREA (in ²)	BTM LAYER DIST c (in)	TOTAL AREA (in ²)	MATERIAL
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

□

----- SLAB DATA -----

SLAB 1 LABEL: SLAB

STRUCTURAL SLAB:		STRUCTURAL WEARING SURFACE:	FUTURE WEARING SURFACE:
THICKNESS:	8.500 (in)	THICKNESS: 0.000 (in)	(Applied Curb to Curb Only)
MATERIAL:	3000	MATERIAL: None	THICKNESS: 0.000 (in)
HAUNCH WIDTH:	0.000 (in)		WEIGHT: 0.000 (psf)
HAUNCH THICK:	2.020 (in)		

REDUCTION FOR WEAR: 0.000 (in)

COMPOSITE NEGATIVE MOMENT STEEL:

TOP LAYER	TOP LAYER	BTM LAYER	BTM LAYER	TOTAL AREA	TOTAL AREA	MATERIAL
BAR AREA	DISTANCE	BAR AREA	DISTANCE	(in ² /ft)	%	
(in ² /ft)	(in)	(in ² /ft)	(in)			
0.41	2.940	0.33	1.940	0.74	0.726	Grade 60

10 - #5 BARS TOP
8 - #5 BARS BOTTOM

----- SHEAR STUD DATA -----

SHEAR STUD DATA:

DIA: 0.875 (in)
 LENGTH: 5.000 (in)
 MATERIAL: A709-50W Fu = 70.0 (ksi)
 NUMBER PER ROW: 1

----- DIAPHRAGM DATA -----

DIAPHRAGM DATA:

TYPE: 1 LABEL: TYPE A
 MATERIAL: Diaphragm
 AX: 10.0 (in²) IX: 20.0 (in⁴) IZ: 400.0 (in⁴)

DIAPHRAGM LOCATIONS, GIRDER 1:

GIRDER 1 DISTANCE (ft)	CONNECTED TO	TYPE
1.083	GIRDER 2	1
19.750	GIRDER 2	1
38.417	GIRDER 2	1
57.152	GIRDER 2	1
71.083	GIRDER 2	1
85.213	GIRDER 2	1
103.750	GIRDER 2	1
122.417	GIRDER 2	1
141.083	GIRDER 2	1

PIER

DIAPHRAGM LOCATIONS, GIRDER 2:

GIRDER 2 DISTANCE (ft)	CONNECTED TO	TYPE	CONNECTED TO	TYPE
1.083	GIRDER 3	1	GIRDER 1	1
19.750	GIRDER 3	1	GIRDER 1	1
38.417	GIRDER 3	1	GIRDER 1	1
57.139	GIRDER 3	1	GIRDER 1	1
71.083	GIRDER 3	1	GIRDER 1	1
85.187	GIRDER 1	1	GIRDER 3	1
103.750	GIRDER 1	1	GIRDER 3	1
122.417	GIRDER 1	1	GIRDER 3	1
141.083	GIRDER 1	1	GIRDER 3	1

DIAPHRAGM LOCATIONS, GIRDER 3:

GIRDER 3 DISTANCE (ft)	CONNECTED TO	TYPE	CONNECTED TO	TYPE
1.083	GIRDER 4	1	GIRDER 2	1
19.750	GIRDER 4	1	GIRDER 2	1

□

----- DIAPHRAGM DATA -----

DIAPHRAGM LOCATIONS, GIRDER 3: (Continued)

GIRDER 3 DISTANCE (ft)	CONNECTED TO	TYPE	CONNECTED TO	TYPE
38.417	GIRDER 4	1	GIRDER 2	1
57.125	GIRDER 4	1	GIRDER 2	1
71.083	GIRDER 4	1	GIRDER 2	1
85.161	GIRDER 2	1	GIRDER 4	1
103.750	GIRDER 2	1	GIRDER 4	1
122.417	GIRDER 2	1	GIRDER 4	1
141.083	GIRDER 2	1	GIRDER 4	1

DIAPHRAGM LOCATIONS, GIRDER 4:

GIRDER 4 DISTANCE (ft)	CONNECTED TO	TYPE	CONNECTED TO	TYPE
1.083	GIRDER 5	1	GIRDER 3	1
19.750	GIRDER 5	1	GIRDER 3	1
38.417	GIRDER 5	1	GIRDER 3	1
57.111	GIRDER 5	1	GIRDER 3	1
71.083	GIRDER 5	1	GIRDER 3	1
85.135	GIRDER 3	1	GIRDER 5	1
103.750	GIRDER 3	1	GIRDER 5	1
122.417	GIRDER 3	1	GIRDER 5	1
141.083	GIRDER 3	1	GIRDER 5	1

DIAPHRAGM LOCATIONS, GIRDER 5:

GIRDER 5 DISTANCE (ft)	CONNECTED TO	TYPE	CONNECTED TO	TYPE
1.083	GIRDER 6	1	GIRDER 4	1
19.750	GIRDER 6	1	GIRDER 4	1
38.417	GIRDER 6	1	GIRDER 4	1
57.097	GIRDER 6	1	GIRDER 4	1
71.083	GIRDER 6	1	GIRDER 4	1
85.109	GIRDER 4	1	GIRDER 6	1
103.750	GIRDER 4	1	GIRDER 6	1
122.417	GIRDER 4	1	GIRDER 6	1
141.083	GIRDER 4	1	GIRDER 6	1

DIAPHRAGM LOCATIONS, GIRDER 6:

GIRDER 6 DISTANCE (ft)	CONNECTED TO	TYPE
1.083	GIRDER 5	1
19.750	GIRDER 5	1
38.417	GIRDER 5	1
57.083	GIRDER 5	1
71.083	GIRDER 5	1
85.083	GIRDER 5	1
103.750	GIRDER 5	1
122.417	GIRDER 5	1
141.083	GIRDER 5	1

----- MATERIALS DATA -----

STEEL:

TYPE: A709-50W	TYPE: Diaphragm
Fy: 50.0 (ksi)	Fy: 0.0 (ksi)
Fu: 70.0 (ksi)	Fu: 0.0 (ksi)
WT: 490.0 (lb/ft ³)	WT: 490.1 (lb/ft ³)
E: 29000 (ksi)	E: 29008 (ksi)
G: 12000 (ksi)	G: 11157 (ksi)

□

----- MATERIALS DATA -----

CONCRETE:
 TYPE: 3000
 f'c: 3.0 (ksi)
 WT: 150.0 (lb/ft³)
 E: 3122 (ksi)
 G: 1357 (ksi)
 AGGR: NORMAL

REBAR:
 TYPE: Grade 60
 Fy: 60.0 (ksi)
 E: 29000 (ksi)

----- LOADS DATA -----

USER DEFINED LOADS:

LOAD TYPE LEGEND:

ARMF: A-DL REMOVABLE FORMS	BFWS: B-DL FUTURE WEARING SURFACE	LIMP: LIVE LOAD IMPACT
ASTL: A-DL STEEL	BIWS: B-DL INTEGRAL WEARING SURFACE	LXLL: AUXILIARY LIVE LOAD
ACON: A-DL CONCRETE	BBAR: B-DL BARRIERS	LPLL: PEDESTRIAN LIVE LOAD
ASET: A-DL SETTLEMENT	BUTL: B-DL UTILITIES	
AADD: A-DL ADDITIONAL	BSET: B-DL SETTLEMENT	
	BADD: B-DL ADDITIONAL	
	BSWK: B-DL SIDEWALK	

LOAD NO.	LABEL	TYPE	MEMBER	BEG DIST (ft)	END DIST (ft)	BEG W (k/ft)	END W (k/ft)	CONC P (kips)	CONST STAGE
1	WEARING SURFACE	BFWS	GDR 1	0.000	142.167	0.283	0.283		0
2	BRACING-EXT	ASTL	GDR 1	0.000	142.167	0.009	0.009		0
3	RAIL	BBAR	GDR 1	0.000	142.167	0.009	0.009		0
4	CURB	BBAR	GDR 1	0.000	142.167	0.106	0.106		0
5	HAUNCH	ACON	GDR 1	0.000	142.167	0.059	0.059		0
6	WEARING SURFACE	BFWS	GDR 6	0.000	142.167	0.258	0.258		0
7	RAIL	BBAR	GDR 6	0.000	142.167	0.009	0.009		0
8	HAUNCH	ACON	GDR 6	0.000	142.167	0.059	0.059		0
9	CURB	BBAR	GDR 6	0.000	142.167	0.102	0.102		0
10	BRACING-EXT	ASTL	GDR 6	0.000	142.167	0.009	0.009		0
11	BRACING-INT	ASTL	GDR 2	0.000	142.167	0.018	0.018		0
12	CURB	BBAR	GDR 2	0.000	142.167	0.102	0.102		0
13	HAUNCH	ACON	GDR 2	0.000	142.167	0.059	0.059		0
14	RAIL	BBAR	GDR 2	0.000	142.167	0.009	0.009		0
15	WEARING SURFACE	BFWS	GDR 2	0.000	142.167	0.258	0.258		0
16	WEARING SURFACE	BFWS	GDR 3	0.000	142.167	0.258	0.258		0
17	RAIL	BBAR	GDR 3	0.000	142.167	0.009	0.009		0
18	HAUNCH	ACON	GDR 3	0.000	142.167	0.059	0.059		0
19	CURB	BBAR	GDR 3	0.000	142.167	0.102	0.102		0
20	BRACING-INT	ASTL	GDR 3	0.000	142.167	0.018	0.018		0
21	WEARING SURFACE	BFWS	GDR 4	0.000	142.167	0.258	0.258		0
22	RAIL	BBAR	GDR 4	0.000	142.167	0.009	0.009		0
23	HAUNCH	ACON	GDR 4	0.000	142.167	0.059	0.059		0
24	CURB	BBAR	GDR 4	0.000	142.167	0.102	0.102		0
25	BRACING-INT	ASTL	GDR 4	0.000	142.167	0.018	0.018		0
26	WEARING SURFACE	BFWS	GDR 5	0.000	142.167	0.258	0.258		0
27	RAIL	BBAR	GDR 5	0.000	142.167	0.009	0.009		0
28	HAUNCH	ACON	GDR 5	0.000	142.167	0.059	0.059		0
29	CURB	BBAR	GDR 5	0.000	142.167	0.102	0.102		0
30	BRACING-INT	ASTL	GDR 5	0.000	142.167	0.018	0.018		0

**BACKUP
PROVIDED IN
LOAD
DEVELOPMENT**

□

----- LOADS DATA -----

LOAD MULTIPLIER FACTORS:

LOAD MULTIPLIER LEGEND:

ASTL: A-DL STEEL BFWS: B-DL FUTURE WEARING SURFACE LLM: LL DISTRIBUTION FACTOR - MOM
 ACON: A-DL CONCRETE BIWS: B-DL INTEGRAL WEARING SURFACE LLV: LL DISTRIBUTION FACTOR - SHR
 BBAR: B-DL BARRIERS LLFM: LL DISTRIBUTION FACTOR - FAT MOM
 BSWK: B-DL SIDEWALKS LLFV: LL DISTRIBUTION FACTOR - FAT SHR
 LL: VEHICULAR LIVE LOAD LLOM: OLV, OLO LL DISTRIBUTION FACTOR - MOM
 LLD: LL DISTRIBUTION FACTOR - DISP LLOV: OLV, OLO LL DISTRIBUTION FACTOR - SHR

MULT NO.	LABEL	TYPE	MEMBER	BEG DIST (ft)	END DIST (ft)	BEG FACTOR	END FACTOR
1	Misc. Steel	ASTL	GDR 6	0.000	142.167	1.050	1.050
2	Misc. Steel	ASTL	GDR 1	0.000	142.167	1.050	1.050
3	Misc. Steel	ASTL	GDR 2	0.000	142.167	1.050	1.050
4	Misc. Steel	ASTL	GDR 3	0.000	142.167	1.050	1.050
5	Misc. Steel	ASTL	GDR 4	0.000	142.167	1.050	1.050
6	Misc. Steel	ASTL	GDR 5	0.000	142.167	1.050	1.050

Notes:

- 1) A-DL Steel multiplier is applied to self weight of girders only, not to diaphragms.
- 2) Dead load multipliers are applied ONLY to dead loads automatically computed by the program, not to user defined dead loads.
- 3) Load multipliers not listed are defaulted to 1.0.

APPLIED TO ACCOUNT FOR MISC. HARDWARE AND CONNECTIONS

LIVE LOAD CASE DATA:

LL CASE NUMBER: 1 LL CASE NAME: HL-93-ED
 IMPACT: Yes

LANE LOAD DATA:

DISTRIBUTED LOAD: 0.640 (k/ft)
 CONCENTRATED LOAD FOR MOMENT: 0.000 (kips)
 CONCENTRATED LOAD FOR SHEAR: 0.000 (kips)

MOVING LOAD PATTERN DATA:

AXLE PATTERN 1
 PATTERN TYPE: Design

DISTANCE (ft)	AXLE LOAD (kips)
0.000	8.000
14.000	32.000
28.000	32.000

 TOTAL WEIGHT = 72.000 (kips) 36.000 (Tons)

AXLE PATTERN 2
 PATTERN TYPE: Design Fatigue

DISTANCE (ft)	AXLE LOAD (kips)
0.000	8.000
14.000	32.000
44.000	32.000

 TOTAL WEIGHT = 72.000 (kips) 36.000 (Tons)

AXLE PATTERN 3
 PATTERN TYPE: Design

DISTANCE (ft)	AXLE LOAD (kips)
0.000	25.000
4.000	25.000

 TOTAL WEIGHT = 50.000 (kips) 25.000 (Tons)

□

----- GIRDER 1 INPUT DATA SUMMARY -----

CODES: B = BEARING D = DIAPHRAGM (BRACED)
 T = 20th POINT C = CONTRAFLEXURE(0 MOMENT OR 0 SHEAR)
 H = HINGE G = GIRDER OR SLAB DIMENSION CHANGE
 S = FIELD SPLICE P = TRACE POINT
 F = FLOORBEAM (BRACED) M = PANEL MIDPOINT

* * * INPUT DATA SUMMARY - GIRDER 1 * * *

		CODES										TOP FLANGE		BOT FLANGE		WEB		SLAB	
SPAN	DIST	B	H	T	C	G	S	D	F	P	M	THICK t (in)	WIDTH w (in)	THICK t (in)	WIDTH w (in)	DEPTH d (in)	THICK t (in)	WIDTH Wg (in)	WIDTH We (in)
FRAC	(ft)																		
1.500	36.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	71.41	71.41
1.500	36.083			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	71.40	71.40
1.533	38.417							D				1.0200	12.000	1.0200	12.000	33.960	0.6500	70.91	70.91
1.550	39.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	70.67	70.67
1.550	39.583			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	70.66	70.66
1.600	43.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	70.00	70.00
1.600	43.083			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	70.00	70.00
1.650	46.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	69.42	69.42
1.650	46.583			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	69.41	69.41
1.667	47.785										M	1.0200	12.000	1.0200	12.000	33.960	0.6500	69.24	69.24
1.700	50.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	68.91	68.91
1.700	50.083			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	68.90	68.90
1.742	53.028					C						1.0200	12.000	1.0200	12.000	33.960	0.6500	68.55	68.55
1.750	53.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	68.48	68.48
1.750	53.583			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	68.48	68.48
1.800	57.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	68.13	68.13
1.800	57.083			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	68.12	68.12
1.801	57.152							D				1.0200	12.000	1.0200	12.000	33.960	0.6500	68.12	68.12
1.850	60.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	67.85	67.85
1.850	60.583			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	67.85	67.85
1.900	64.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	67.66	67.66
1.900	64.083			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	67.66	67.66
1.900	64.118										M	1.0200	12.000	1.0200	12.000	33.960	0.6500	67.65	67.65
1.950	67.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	67.54	67.54
1.950	67.583			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	67.54	67.54
2.000	71.083	B		T				D				1.0200	12.000	1.0200	12.000	33.960	0.6500	67.50	67.50
2.000	71.083	B		T								1.0200	12.000	1.0200	12.000	33.960	0.6500	67.50	67.50
2.050	74.583			T				D				1.0200	12.000	1.0200	12.000	33.960	0.6500	67.54	67.54
2.050	74.583			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	67.54	67.54
2.100	78.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	67.66	67.66
2.100	78.083			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	67.66	67.66
2.101	78.148										M	1.0200	12.000	1.0200	12.000	33.960	0.6500	67.66	67.66
2.150	81.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	67.85	67.85
2.150	81.583			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	67.85	67.85
2.200	85.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	68.12	68.12
2.200	85.083			T		G						1.0200	12.000	1.0200	12.000	33.960	0.6500	68.13	68.13
2.202	85.213							D				1.0200	12.000	1.0200	12.000	33.960	0.6500	68.14	68.14
2.250	88.583			T		G	S					1.0200	12.000	1.0200	12.000	33.960	0.6500	68.48	68.48
2.250	88.583			T		G	S					1.0200	12.000	0.7900	12.000	34.020	0.6000	68.48	68.48
2.251	88.664					G						1.0200	12.000	0.7900	12.000	34.020	0.6000	68.49	68.49
2.251	88.664					G						0.7900	12.000	0.7900	12.000	34.020	0.6000	68.49	68.49
2.262	89.439					C						0.7900	12.000	0.7900	12.000	34.020	0.6000	68.58	68.58
2.300	92.083			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	68.90	68.90
2.300	92.083			T		G						0.7900	12.000	0.7900	12.000	34.020	0.6000	68.91	68.91
2.334	94.482										M	0.7900	12.000	0.7900	12.000	34.020	0.6000	69.25	69.25
2.350	95.583			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	69.41	69.41
2.350	95.583			T		G						0.7900	12.000	0.7900	12.000	34.020	0.6000	69.42	69.42
2.400	99.083			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	70.00	70.00
2.400	99.083			T		G						0.7900	12.000	0.7900	12.000	34.020	0.6000	70.00	70.00
2.450	102.583			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	70.66	70.66
2.450	102.583			T		G						0.7900	12.000	0.7900	12.000	34.020	0.6000	70.67	70.67
2.467	103.750							D				0.7900	12.000	0.7900	12.000	34.020	0.6000	70.91	70.91
2.500	106.083			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	71.40	71.40
2.500	106.083			T		G						0.7900	12.000	0.7900	12.000	34.020	0.6000	71.41	71.41
2.550	109.583			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	72.22	72.22

----- GIRDER 1 INPUT DATA SUMMARY -----

CODES: B = BEARING D = DIAPHRAGM (BRACED)
 T = 20th POINT C = CONTRAFLEXURE(0 MOMENT OR 0 SHEAR)
 H = HINGE G = GIRDER OR SLAB DIMENSION CHANGE
 S = FIELD SPLICE P = TRACE POINT
 F = FLOORBEAM (BRACED) M = PANEL MIDPOINT

* * * INPUT DATA SUMMARY - GIRDER 1 * * *

SPAN FRAC	DIST (ft)	----- CODES -----											--- TOP FLANGE ---		--- BOT FLANGE ---		----- WEB -----		----- SLAB -----	
		B	H	T	C	G	S	D	F	P	M		THICK t (in)	WIDTH w (in)	THICK t (in)	WIDTH w (in)	DEPTH d (in)	THICK t (in)	WIDTH Wg (in)	WIDTH We (in)
2.550	109.583			T		G							0.7900	12.000	0.7900	12.000	34.020	0.6000	72.23	72.23
2.600	113.083			T							M		0.7900	12.000	0.7900	12.000	34.020	0.6000	73.12	73.12
2.600	113.083			T		G					M		0.7900	12.000	0.7900	12.000	34.020	0.6000	73.13	73.13
2.636	115.599				C								0.7900	12.000	0.7900	12.000	34.020	0.6000	73.82	73.82
2.650	116.583			T									0.7900	12.000	0.7900	12.000	34.020	0.6000	74.10	74.10
2.650	116.583			T		G							0.7900	12.000	0.7900	12.000	34.020	0.6000	74.10	74.10
2.700	120.083			T									0.7900	12.000	0.7900	12.000	34.020	0.6000	75.15	75.15
2.700	120.083			T		G							0.7900	12.000	0.7900	12.000	34.020	0.6000	75.16	75.16
2.733	122.417							D					0.7900	12.000	0.7900	12.000	34.020	0.6000	75.91	75.91
2.750	123.583			T									0.7900	12.000	0.7900	12.000	34.020	0.6000	76.28	76.28
2.750	123.583			T		G							0.7900	12.000	0.7900	12.000	34.020	0.6000	76.29	76.29
2.800	127.083			T									0.7900	12.000	0.7900	12.000	34.020	0.6000	77.49	77.49
2.800	127.083			T		G							0.7900	12.000	0.7900	12.000	34.020	0.6000	77.50	77.50
2.850	130.583			T									0.7900	12.000	0.7900	12.000	34.020	0.6000	78.78	78.78
2.850	130.583			T		G							0.7900	12.000	0.7900	12.000	34.020	0.6000	78.79	78.79
2.867	131.750										M		0.7900	12.000	0.7900	12.000	34.020	0.6000	79.25	79.25
2.900	134.083			T									0.7900	12.000	0.7900	12.000	34.020	0.6000	80.15	80.15
2.900	134.083			T		G							0.7900	12.000	0.7900	12.000	34.020	0.6000	80.16	80.16
2.950	137.583			T									0.7900	12.000	0.7900	12.000	34.020	0.6000	81.60	81.60
2.950	137.583			T		G							0.7900	12.000	0.7900	12.000	34.020	0.6000	81.61	81.61
3.000	141.063				C								0.7900	12.000	0.7900	12.000	34.020	0.6000	83.11	83.11
3.000	141.063				C								0.7900	12.000	0.7900	12.000	34.020	0.6000	83.11	83.11
3.000	141.083	B		T				D					0.7900	12.000	0.7900	12.000	34.020	0.6000	83.12	83.12
3.000	141.083	B		T		G		D					0.7900	12.000	0.7900	12.000	34.020	0.6000	83.13	83.13
4.000	142.167												0.7900	12.000	0.7900	12.000	34.020	0.6000	83.61	83.61

----- SECTION PROPERTIES -----

GIRDER: S1
 NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
FRAC			
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	63.	9612.
1.801	46.554	63.	9612.
1.801	46.554	103.	9612.
2.000	46.554	103.	9612.
2.000	46.554	103.	9612.
2.000	46.554	100.	9612.
2.202	46.554	100.	9612.
2.202	46.554	64.	9612.
2.250	46.554	64.	9612.
2.250	42.132	54.	8541.
2.251	42.132	54.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

**MATCHES INDEPENDENT
CHECK (9612 IN^4)**

□

----- SECTION PROPERTIES -----

GIRDER: S1

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
0.000	72.056	3578.	18672.	123.061	5764.	25718.
0.769	72.056	3578.	18672.	123.061	5764.	25718.
0.769	51.689	3573.	12065.	51.689	5750.	12065.
1.000	51.689	3573.	12065.	51.689	5750.	12065.
1.000	51.682	3571.	12062.	51.682	5746.	12062.
1.000	51.682	3571.	12062.	51.682	5746.	12062.
1.000	51.682	1187.	12062.	51.682	3161.	12062.
1.000	51.682	1187.	12062.	51.682	3161.	12062.
1.000	51.681	1187.	12061.	51.681	3161.	12061.
1.000	51.681	1187.	12061.	51.681	3161.	12061.
1.000	71.905	1187.	18637.	122.606	3161.	25680.
1.004	71.905	1187.	18637.	122.606	3161.	25680.
1.004	71.875	1185.	18630.	122.516	3157.	25672.
1.050	71.875	1185.	18630.	122.516	3157.	25672.
1.050	71.446	1168.	18529.	121.229	3108.	25563.
1.050	71.446	1168.	18529.	121.229	3108.	25563.
1.050	71.443	1168.	18529.	121.220	3107.	25562.
1.100	71.443	1168.	18529.	121.220	3107.	25562.
1.100	71.005	1151.	18425.	119.906	3057.	25448.
1.100	71.005	1151.	18425.	119.906	3057.	25448.
1.100	71.002	1150.	18424.	119.898	3057.	25448.
1.133	71.002	1150.	18424.	119.898	3057.	25448.
1.133	70.726	1139.	18358.	119.069	3025.	25375.
1.150	70.726	1139.	18358.	119.069	3025.	25375.
1.150	70.587	1134.	18325.	118.654	3009.	25338.
1.150	70.587	1134.	18325.	118.654	3009.	25338.
1.150	70.585	1134.	18324.	118.647	3008.	25337.
1.200	70.585	1134.	18324.	118.647	3008.	25337.
1.200	70.194	1118.	18230.	117.474	2963.	25232.
1.200	70.194	1118.	18230.	117.474	2963.	25232.
1.200	70.192	1118.	18229.	117.467	2963.	25231.
1.250	70.192	1118.	18229.	117.467	2963.	25231.
1.250	69.825	1103.	18139.	116.366	2921.	25130.
1.250	69.825	1103.	18139.	116.366	2921.	25130.
1.250	69.822	1103.	18138.	116.359	2920.	25129.
1.267	69.822	1103.	18138.	116.359	2920.	25129.
1.267	69.708	1099.	18110.	116.016	2907.	25097.
1.300	69.708	1099.	18110.	116.016	2907.	25097.
1.300	69.479	1089.	18054.	115.329	2881.	25033.
1.300	69.479	1089.	18054.	115.329	2881.	25033.
1.300	69.477	1089.	18053.	115.323	2880.	25033.
1.350	69.477	1089.	18053.	115.323	2880.	25033.
1.350	69.157	1076.	17973.	114.364	2844.	24942.
1.350	69.157	1076.	17973.	114.364	2844.	24942.
1.350	69.155	1076.	17973.	114.358	2843.	24941.
1.366	69.155	1076.	17973.	114.358	2843.	24941.
1.366	69.058	1072.	17948.	114.066	2832.	24913.
1.400	69.058	1072.	17948.	114.066	2832.	24913.
1.400	68.859	1064.	17898.	113.470	2809.	24856.
1.400	68.859	1064.	17898.	113.470	2809.	24856.
1.400	68.858	1064.	17898.	113.465	2809.	24855.
1.450	68.858	1064.	17898.	113.465	2809.	24855.
1.450	68.585	1053.	17828.	112.648	2777.	24775.
1.450	68.585	1053.	17828.	112.648	2777.	24775.
1.450	68.584	1053.	17828.	112.643	2777.	24775.
1.500	68.584	1053.	17828.	112.643	2777.	24775.
1.500	68.335	1043.	17764.	111.897	2748.	24701.
1.500	68.335	1043.	17764.	111.897	2748.	24701.
1.500	68.334	1043.	17764.	111.893	2748.	24700.
1.533	68.334	1043.	17764.	111.893	2748.	24700.
1.533	68.184	1037.	17725.	111.443	2731.	24655.
1.533	68.184	1037.	17725.	111.443	2731.	24655.

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
1.533	68.184	1036.	17725.	111.443	2729.	24655.
1.550	68.184	1036.	17725.	111.443	2729.	24655.
1.550	68.109	1033.	17706.	111.218	2721.	24633.
1.550	68.109	1033.	17706.	111.218	2721.	24633.
1.550	68.107	1033.	17706.	111.214	2720.	24632.
1.600	68.107	1033.	17706.	111.214	2720.	24632.
1.600	67.906	1025.	17653.	110.610	2697.	24571.
1.600	67.906	1025.	17653.	110.610	2697.	24571.
1.600	67.905	1025.	17653.	110.606	2697.	24571.
1.650	67.905	1025.	17653.	110.606	2697.	24571.
1.650	67.727	1018.	17607.	110.074	2676.	24517.
1.650	67.727	1018.	17607.	110.074	2676.	24517.
1.650	67.726	1018.	17607.	110.071	2676.	24516.
1.667	67.726	1018.	17607.	110.071	2676.	24516.
1.667	67.673	1015.	17593.	109.912	2670.	24500.
1.700	67.673	1015.	17593.	109.912	2670.	24500.
1.700	67.572	1011.	17566.	109.609	2658.	24469.
1.700	67.572	1011.	17566.	109.609	2658.	24469.
1.700	67.571	1011.	17566.	109.606	2658.	24468.
1.742	67.571	1011.	17566.	109.606	2658.	24468.
1.742	67.462	1007.	17537.	109.278	2646.	24434.
1.742	67.462	1007.	17537.	109.278	2646.	24434.
1.742	50.783	1007.	11668.	50.783	2646.	11668.
1.750	50.783	1007.	11668.	50.783	2646.	11668.
1.750	50.778	1006.	11666.	50.778	2643.	11666.
1.800	50.778	1006.	11666.	50.778	2643.	11666.
1.800	50.757	1002.	11656.	50.757	2631.	11656.
1.801	50.757	1002.	11656.	50.757	2631.	11656.
1.801	50.756	1002.	11656.	50.756	2631.	11656.
1.801	50.756	1002.	11656.	50.756	2631.	11656.
1.801	50.756	1121.	11656.	50.756	2786.	11656.
1.850	50.756	1121.	11656.	50.756	2786.	11656.
1.850	50.740	1118.	11649.	50.740	2777.	11649.
1.900	50.740	1118.	11649.	50.740	2777.	11649.
1.900	50.728	1116.	11643.	50.728	2770.	11643.
1.950	50.728	1116.	11643.	50.728	2770.	11643.
1.950	50.720	1114.	11640.	50.720	2766.	11640.
1.996	50.720	1114.	11640.	50.720	2766.	11640.
1.996	50.718	1114.	11639.	50.718	2764.	11639.
2.000	50.718	1114.	11639.	50.718	2764.	11639.
2.000	50.718	1114.	11639.	50.718	2764.	11639.
2.000	50.718	1106.	11639.	50.718	2755.	11639.
2.050	50.718	1106.	11639.	50.718	2755.	11639.
2.050	50.720	1107.	11640.	50.720	2757.	11640.
2.100	50.720	1107.	11640.	50.720	2757.	11640.
2.100	50.728	1108.	11643.	50.728	2761.	11643.
2.150	50.728	1108.	11643.	50.728	2761.	11643.
2.150	50.740	1111.	11649.	50.740	2768.	11649.
2.200	50.740	1111.	11649.	50.740	2768.	11649.
2.200	50.757	1114.	11656.	50.757	2778.	11656.
2.202	50.757	1114.	11656.	50.757	2778.	11656.
2.202	50.757	1005.	11656.	50.757	2636.	11656.
2.250	50.757	1005.	11656.	50.757	2636.	11656.
2.250	50.778	1009.	11666.	50.778	2648.	11666.
2.250	50.778	1009.	11666.	50.778	2648.	11666.
2.250	46.356	969.	10381.	46.356	2594.	10381.
2.251	46.356	969.	10381.	46.356	2594.	10381.
2.251	46.357	970.	10381.	46.357	2594.	10381.
2.251	46.357	970.	10381.	46.357	2594.	10381.
2.251	43.597	967.	9742.	43.597	2591.	9742.
2.262	43.597	967.	9742.	43.597	2591.	9742.
2.262	43.603	968.	9745.	43.603	2595.	9745.

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
2.262	43.603	968.	9745.	43.603	2595.	9745.
2.262	60.291	968.	15243.	102.129	2595.	21203.
2.300	60.291	968.	15243.	102.129	2595.	21203.
2.300	60.389	972.	15266.	102.424	2606.	21229.
2.300	60.389	972.	15266.	102.424	2606.	21229.
2.300	60.390	972.	15266.	102.427	2606.	21229.
2.334	60.390	972.	15266.	102.427	2606.	21229.
2.334	60.496	976.	15291.	102.743	2618.	21256.
2.350	60.496	976.	15291.	102.743	2618.	21256.
2.350	60.544	978.	15303.	102.889	2624.	21268.
2.350	60.544	978.	15303.	102.889	2624.	21268.
2.350	60.545	978.	15303.	102.892	2624.	21269.
2.400	60.545	978.	15303.	102.892	2624.	21269.
2.400	60.723	985.	15345.	103.424	2644.	21314.
2.400	60.723	985.	15345.	103.424	2644.	21314.
2.400	60.724	985.	15345.	103.428	2645.	21314.
2.450	60.724	985.	15345.	103.428	2645.	21314.
2.450	60.925	993.	15392.	104.032	2668.	21365.
2.450	60.925	993.	15392.	104.032	2668.	21365.
2.450	60.927	994.	15392.	104.036	2668.	21365.
2.467	60.927	994.	15392.	104.036	2668.	21365.
2.467	61.002	997.	15409.	104.261	2676.	21384.
2.467	61.002	997.	15409.	104.261	2676.	21384.
2.467	61.002	995.	15409.	104.261	2674.	21384.
2.500	61.002	995.	15409.	104.261	2674.	21384.
2.500	61.152	1001.	15444.	104.711	2691.	21421.
2.500	61.152	1001.	15444.	104.711	2691.	21421.
2.500	61.153	1001.	15444.	104.715	2691.	21422.
2.550	61.153	1001.	15444.	104.715	2691.	21422.
2.550	61.402	1011.	15502.	105.461	2720.	21483.
2.550	61.402	1011.	15502.	105.461	2720.	21483.
2.550	61.403	1011.	15502.	105.466	2720.	21483.
2.600	61.403	1011.	15502.	105.466	2720.	21483.
2.600	61.676	1022.	15564.	106.283	2751.	21550.
2.600	61.676	1022.	15564.	106.283	2751.	21550.
2.600	61.677	1022.	15564.	106.288	2752.	21550.
2.636	61.677	1022.	15564.	106.288	2752.	21550.
2.636	61.890	1030.	15612.	106.926	2776.	21601.
2.650	61.890	1030.	15612.	106.926	2776.	21601.
2.650	61.973	1033.	15631.	107.176	2785.	21621.
2.650	61.973	1033.	15631.	107.176	2785.	21621.
2.650	61.975	1033.	15632.	107.182	2786.	21621.
2.700	61.975	1033.	15632.	107.182	2786.	21621.
2.700	62.295	1046.	15703.	108.141	2822.	21697.
2.700	62.295	1046.	15703.	108.141	2822.	21697.
2.700	62.297	1046.	15704.	108.147	2823.	21697.
2.733	62.297	1046.	15704.	108.147	2823.	21697.
2.733	62.526	1055.	15754.	108.834	2849.	21750.
2.750	62.526	1055.	15754.	108.834	2849.	21750.
2.750	62.640	1060.	15780.	109.177	2862.	21777.
2.750	62.640	1060.	15780.	109.177	2862.	21777.
2.750	62.643	1060.	15780.	109.184	2862.	21777.
2.800	62.643	1060.	15780.	109.184	2862.	21777.
2.800	63.010	1075.	15860.	110.285	2904.	21861.
2.800	63.010	1075.	15860.	110.285	2904.	21861.
2.800	63.012	1075.	15861.	110.292	2905.	21861.
2.850	63.012	1075.	15861.	110.292	2905.	21861.
2.850	63.403	1090.	15945.	111.465	2949.	21948.
2.850	63.403	1090.	15945.	111.465	2949.	21948.
2.850	63.405	1090.	15946.	111.472	2950.	21949.
2.867	63.405	1090.	15946.	111.472	2950.	21949.
2.867	63.544	1096.	15976.	111.887	2966.	21979.
2.900	63.544	1096.	15976.	111.887	2966.	21979.

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----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
2.900	63.820	1107.	16035.	112.716	2997.	22039.
2.900	63.820	1107.	16035.	112.716	2997.	22039.
2.900	63.823	1107.	16035.	112.724	2997.	22040.
2.950	63.823	1107.	16035.	112.724	2997.	22040.
2.950	64.261	1124.	16128.	114.038	3048.	22134.
2.950	64.261	1124.	16128.	114.038	3048.	22134.
2.950	64.264	1124.	16128.	114.047	3048.	22134.
2.996	64.264	1124.	16128.	114.047	3048.	22134.
2.996	64.693	1141.	16217.	115.334	3097.	22224.
3.000	64.693	1141.	16217.	115.334	3097.	22224.
3.000	64.723	1142.	16224.	115.425	3101.	22231.
3.000	64.723	1142.	16224.	115.425	3101.	22231.
3.000	44.499	1142.	10126.	44.499	3101.	10126.
3.000	44.499	1142.	10126.	44.499	3101.	10126.
3.000	44.500	1142.	10126.	44.500	3101.	10126.
3.000	44.500	1142.	10126.	44.500	3101.	10126.
3.000	44.500	3007.	10126.	44.500	5165.	10126.
3.231	44.500	3007.	10126.	44.500	5165.	10126.
3.231	44.507	3008.	10129.	44.507	5170.	10129.
4.000	44.507	3008.	10129.	44.507	5170.	10129.
4.000	64.874	3013.	16255.	115.879	5184.	22262.

GIRDER: S1

INPUT SECTION - NON-COMPOSITE SECTION PROPERTIES

SPAN.LOC FRAC	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	Y-TOP (in)	Y-BOT (in)
0.000	46.554	12.	9612.	18.000	-18.000
1.000	46.554	12.	9612.	18.000	-18.000
1.000	46.554	12.	9612.	18.000	-18.000
2.000	46.554	12.	9612.	18.000	-18.000
2.250	46.554	12.	9612.	18.000	-18.000
2.250	42.132	9.	8541.	16.856	-18.974
2.251	42.132	9.	8541.	16.856	-18.974
2.251	39.372	7.	7713.	17.800	-17.800
3.000	39.372	7.	7713.	17.800	-17.800
3.000	39.372	7.	7713.	17.800	-17.800
4.000	39.372	7.	7713.	17.800	-17.800

GIRDER: S1

INPUT SECTION - 3n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC FRAC	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	Y-TOP (in)	Y-BOT (in)	Y-SLAB (in)	Y-REINF TOP	Y-REINF BOT
							(in)	(in)
0.000	72.056	626.	18672.	9.771	-26.229	15.021	16.331	12.711
0.769	72.056	626.	18672.	9.771	-26.229	15.021	16.331	12.711
0.769	71.944	623.	18646.	9.795	-26.205	15.045	16.355	12.735
1.000	71.944	623.	18646.	9.795	-26.205	15.045	16.355	12.735
1.000	71.911	622.	18638.	9.802	-26.198	15.052	16.362	12.742
1.000	71.911	622.	18638.	9.802	-26.198	15.052	16.362	12.742
1.000	71.908	622.	18638.	9.802	-26.198	15.052	16.362	12.742
1.000	71.908	622.	18638.	9.802	-26.198	15.052	16.362	12.742
1.000	71.905	622.	18637.	9.803	-26.197	15.053	16.363	12.743
1.004	71.905	622.	18637.	9.803	-26.197	15.053	16.363	12.743
1.004	71.875	622.	18630.	9.809	-26.191	15.059	16.369	12.749
1.050	71.875	622.	18630.	9.809	-26.191	15.059	16.369	12.749

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

INPUT SECTION - 3n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF	Y-REINF
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in)	(in)	(in)	TOP	BOT
							(in)	(in)
1.050	71.446	611.	18529.	9.900	-26.100	15.150	16.460	12.840
1.050	71.446	611.	18529.	9.900	-26.100	15.150	16.460	12.840
1.050	71.443	611.	18529.	9.900	-26.100	15.150	16.460	12.840
1.100	71.443	611.	18529.	9.900	-26.100	15.150	16.460	12.840
1.100	71.005	601.	18425.	9.994	-26.006	15.244	16.554	12.934
1.100	71.005	601.	18425.	9.994	-26.006	15.244	16.554	12.934
1.100	71.002	601.	18424.	9.994	-26.006	15.244	16.554	12.934
1.133	71.002	601.	18424.	9.994	-26.006	15.244	16.554	12.934
1.133	70.726	594.	18358.	10.054	-25.946	15.304	16.614	12.994
1.150	70.726	594.	18358.	10.054	-25.946	15.304	16.614	12.994
1.150	70.587	591.	18325.	10.084	-25.916	15.334	16.644	13.024
1.150	70.587	591.	18325.	10.084	-25.916	15.334	16.644	13.024
1.150	70.585	591.	18324.	10.084	-25.916	15.334	16.644	13.024
1.200	70.585	591.	18324.	10.084	-25.916	15.334	16.644	13.024
1.200	70.194	581.	18230.	10.170	-25.830	15.420	16.730	13.110
1.200	70.194	581.	18230.	10.170	-25.830	15.420	16.730	13.110
1.200	70.192	581.	18229.	10.170	-25.830	15.420	16.730	13.110
1.250	70.192	581.	18229.	10.170	-25.830	15.420	16.730	13.110
1.250	69.825	572.	18139.	10.251	-25.749	15.501	16.811	13.191
1.250	69.825	572.	18139.	10.251	-25.749	15.501	16.811	13.191
1.250	69.822	572.	18138.	10.252	-25.748	15.502	16.812	13.192
1.267	69.822	572.	18138.	10.252	-25.748	15.502	16.812	13.192
1.267	69.708	569.	18110.	10.277	-25.723	15.527	16.837	13.217
1.300	69.708	569.	18110.	10.277	-25.723	15.527	16.837	13.217
1.300	69.479	564.	18054.	10.329	-25.671	15.579	16.889	13.269
1.300	69.479	564.	18054.	10.329	-25.671	15.579	16.889	13.269
1.300	69.477	564.	18053.	10.329	-25.671	15.579	16.889	13.269
1.350	69.477	564.	18053.	10.329	-25.671	15.579	16.889	13.269
1.350	69.157	556.	17973.	10.401	-25.599	15.651	16.961	13.341
1.350	69.157	556.	17973.	10.401	-25.599	15.651	16.961	13.341
1.350	69.155	556.	17973.	10.401	-25.599	15.651	16.961	13.341
1.366	69.155	556.	17973.	10.401	-25.599	15.651	16.961	13.341
1.366	69.058	554.	17948.	10.423	-25.577	15.673	16.983	13.363
1.400	69.058	554.	17948.	10.423	-25.577	15.673	16.983	13.363
1.400	68.859	549.	17898.	10.469	-25.531	15.719	17.029	13.409
1.400	68.859	549.	17898.	10.469	-25.531	15.719	17.029	13.409
1.400	68.858	549.	17898.	10.469	-25.531	15.719	17.029	13.409
1.450	68.858	549.	17898.	10.469	-25.531	15.719	17.029	13.409
1.450	68.585	542.	17828.	10.532	-25.468	15.782	17.092	13.472
1.450	68.585	542.	17828.	10.532	-25.468	15.782	17.092	13.472
1.450	68.584	542.	17828.	10.532	-25.468	15.782	17.092	13.472
1.500	68.584	542.	17828.	10.532	-25.468	15.782	17.092	13.472
1.500	68.335	536.	17764.	10.589	-25.411	15.839	17.149	13.529
1.500	68.335	536.	17764.	10.589	-25.411	15.839	17.149	13.529
1.500	68.334	536.	17764.	10.590	-25.410	15.840	17.150	13.530
1.533	68.334	536.	17764.	10.590	-25.410	15.840	17.150	13.530
1.533	68.184	533.	17725.	10.625	-25.375	15.875	17.185	13.565
1.550	68.184	533.	17725.	10.625	-25.375	15.875	17.185	13.565
1.550	68.109	531.	17706.	10.642	-25.358	15.892	17.202	13.582
1.550	68.109	531.	17706.	10.642	-25.358	15.892	17.202	13.582
1.550	68.107	531.	17706.	10.642	-25.358	15.892	17.202	13.582
1.600	68.107	531.	17706.	10.642	-25.358	15.892	17.202	13.582
1.600	67.906	526.	17653.	10.689	-25.311	15.939	17.249	13.629
1.600	67.906	526.	17653.	10.689	-25.311	15.939	17.249	13.629
1.600	67.905	526.	17653.	10.690	-25.310	15.940	17.250	13.630
1.650	67.905	526.	17653.	10.690	-25.310	15.940	17.250	13.630
1.650	67.727	522.	17607.	10.731	-25.269	15.981	17.291	13.671
1.650	67.727	522.	17607.	10.731	-25.269	15.981	17.291	13.671
1.650	67.726	522.	17607.	10.732	-25.268	15.982	17.292	13.672
1.667	67.726	522.	17607.	10.732	-25.268	15.982	17.292	13.672
1.667	67.673	520.	17593.	10.744	-25.256	15.994	17.304	13.684
1.700	67.673	520.	17593.	10.744	-25.256	15.994	17.304	13.684
1.700	67.572	518.	17566.	10.768	-25.232	16.018	17.328	13.708

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

INPUT SECTION - 3n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF	Y-REINF
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in)	(in)	(in)	TOP	BOT
							(in)	(in)
1.700	67.572	518.	17566.	10.768	-25.232	16.018	17.328	13.708
1.700	67.571	518.	17566.	10.768	-25.232	16.018	17.328	13.708
1.742	67.571	518.	17566.	10.768	-25.232	16.018	17.328	13.708
1.742	67.462	515.	17537.	10.794	-25.206	16.044	17.354	13.734
1.750	67.462	515.	17537.	10.794	-25.206	16.044	17.354	13.734
1.750	67.441	515.	17532.	10.799	-25.201	16.049	17.359	13.739
1.750	67.441	515.	17532.	10.799	-25.201	16.049	17.359	13.739
1.750	67.440	515.	17532.	10.799	-25.201	16.049	17.359	13.739
1.800	67.440	515.	17532.	10.799	-25.201	16.049	17.359	13.739
1.800	67.334	512.	17503.	10.825	-25.175	16.075	17.385	13.765
1.800	67.334	512.	17503.	10.825	-25.175	16.075	17.385	13.765
1.800	67.333	512.	17503.	10.825	-25.175	16.075	17.385	13.765
1.801	67.333	512.	17503.	10.825	-25.175	16.075	17.385	13.765
1.801	67.332	512.	17503.	10.825	-25.175	16.075	17.385	13.765
1.850	67.332	512.	17503.	10.825	-25.175	16.075	17.385	13.765
1.850	67.250	510.	17481.	10.845	-25.155	16.095	17.405	13.785
1.900	67.250	510.	17481.	10.845	-25.155	16.095	17.405	13.785
1.900	67.191	509.	17465.	10.859	-25.141	16.109	17.419	13.799
1.900	67.191	509.	17465.	10.859	-25.141	16.109	17.419	13.799
1.900	67.190	509.	17465.	10.859	-25.141	16.109	17.419	13.799
1.950	67.190	509.	17465.	10.859	-25.141	16.109	17.419	13.799
1.950	67.155	508.	17456.	10.868	-25.132	16.118	17.428	13.808
1.996	67.155	508.	17456.	10.868	-25.132	16.118	17.428	13.808
1.996	67.144	508.	17453.	10.870	-25.130	16.120	17.430	13.810
2.000	67.144	508.	17453.	10.870	-25.130	16.120	17.430	13.810
2.000	67.143	508.	17453.	10.871	-25.129	16.121	17.431	13.811
2.000	67.143	508.	17453.	10.871	-25.129	16.121	17.431	13.811
2.004	67.143	508.	17453.	10.871	-25.129	16.121	17.431	13.811
2.004	67.144	508.	17453.	10.870	-25.130	16.120	17.430	13.810
2.050	67.144	508.	17453.	10.870	-25.130	16.120	17.430	13.810
2.050	67.155	508.	17456.	10.868	-25.132	16.118	17.428	13.808
2.100	67.155	508.	17456.	10.868	-25.132	16.118	17.428	13.808
2.100	67.191	509.	17465.	10.859	-25.141	16.109	17.419	13.799
2.101	67.191	509.	17465.	10.859	-25.141	16.109	17.419	13.799
2.101	67.192	509.	17466.	10.859	-25.141	16.109	17.419	13.799
2.150	67.192	509.	17466.	10.859	-25.141	16.109	17.419	13.799
2.150	67.250	510.	17481.	10.845	-25.155	16.095	17.405	13.785
2.200	67.250	510.	17481.	10.845	-25.155	16.095	17.405	13.785
2.200	67.333	512.	17503.	10.825	-25.175	16.075	17.385	13.765
2.200	67.333	512.	17503.	10.825	-25.175	16.075	17.385	13.765
2.200	67.334	512.	17503.	10.825	-25.175	16.075	17.385	13.765
2.202	67.334	512.	17503.	10.825	-25.175	16.075	17.385	13.765
2.202	67.338	512.	17504.	10.824	-25.176	16.074	17.384	13.764
2.250	67.338	512.	17504.	10.824	-25.176	16.074	17.384	13.764
2.250	67.440	515.	17532.	10.799	-25.201	16.049	17.359	13.739
2.250	67.440	515.	17532.	10.799	-25.201	16.049	17.359	13.739
2.250	63.019	512.	15491.	9.529	-26.301	14.779	16.089	12.469
2.251	63.019	512.	15491.	9.529	-26.301	14.779	16.089	12.469
2.251	63.022	512.	15492.	9.529	-26.301	14.779	16.089	12.469
2.251	63.022	512.	15492.	9.529	-26.301	14.779	16.089	12.469
2.251	60.262	510.	15236.	9.730	-25.870	15.210	16.520	12.900
2.262	60.262	510.	15236.	9.730	-25.870	15.210	16.520	12.900
2.262	60.291	510.	15243.	9.723	-25.877	15.203	16.513	12.893
2.300	60.291	510.	15243.	9.723	-25.877	15.203	16.513	12.893
2.300	60.389	513.	15266.	9.698	-25.902	15.178	16.488	12.868
2.300	60.389	513.	15266.	9.698	-25.902	15.178	16.488	12.868
2.300	60.390	513.	15266.	9.698	-25.902	15.178	16.488	12.868
2.334	60.390	513.	15266.	9.698	-25.902	15.178	16.488	12.868
2.334	60.496	515.	15291.	9.671	-25.929	15.151	16.461	12.841
2.350	60.496	515.	15291.	9.671	-25.929	15.151	16.461	12.841
2.350	60.544	516.	15303.	9.659	-25.941	15.139	16.449	12.829
2.350	60.544	516.	15303.	9.659	-25.941	15.139	16.449	12.829

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

INPUT SECTION - 3n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF	Y-REINF
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in)	(in)	(in)	TOP	BOT
							(in)	(in)
2.350	60.545	516.	15303.	9.659	-25.941	15.139	16.449	12.829
2.400	60.545	516.	15303.	9.659	-25.941	15.139	16.449	12.829
2.400	60.723	521.	15345.	9.614	-25.986	15.094	16.404	12.784
2.400	60.723	521.	15345.	9.614	-25.986	15.094	16.404	12.784
2.400	60.724	521.	15345.	9.614	-25.986	15.094	16.404	12.784
2.450	60.724	521.	15345.	9.614	-25.986	15.094	16.404	12.784
2.450	60.925	526.	15392.	9.564	-26.036	15.044	16.354	12.734
2.450	60.925	526.	15392.	9.564	-26.036	15.044	16.354	12.734
2.450	60.927	526.	15392.	9.564	-26.036	15.044	16.354	12.734
2.467	60.927	526.	15392.	9.564	-26.036	15.044	16.354	12.734
2.467	61.002	527.	15409.	9.546	-26.054	15.026	16.336	12.716
2.500	61.002	527.	15409.	9.546	-26.054	15.026	16.336	12.716
2.500	61.152	531.	15444.	9.509	-26.091	14.989	16.299	12.679
2.500	61.152	531.	15444.	9.509	-26.091	14.989	16.299	12.679
2.500	61.153	531.	15444.	9.508	-26.092	14.988	16.298	12.678
2.550	61.153	531.	15444.	9.508	-26.092	14.988	16.298	12.678
2.550	61.402	537.	15502.	9.448	-26.152	14.928	16.238	12.618
2.550	61.402	537.	15502.	9.448	-26.152	14.928	16.238	12.618
2.550	61.403	537.	15502.	9.447	-26.153	14.927	16.237	12.617
2.600	61.403	537.	15502.	9.447	-26.153	14.927	16.237	12.617
2.600	61.676	544.	15564.	9.381	-26.219	14.861	16.171	12.551
2.600	61.676	544.	15564.	9.381	-26.219	14.861	16.171	12.551
2.600	61.677	544.	15564.	9.381	-26.219	14.861	16.171	12.551
2.636	61.677	544.	15564.	9.381	-26.219	14.861	16.171	12.551
2.636	61.890	549.	15612.	9.330	-26.270	14.810	16.120	12.500
2.650	61.890	549.	15612.	9.330	-26.270	14.810	16.120	12.500
2.650	61.973	551.	15631.	9.310	-26.290	14.790	16.100	12.480
2.650	61.973	551.	15631.	9.310	-26.290	14.790	16.100	12.480
2.650	61.975	551.	15632.	9.309	-26.291	14.789	16.099	12.479
2.700	61.975	551.	15632.	9.309	-26.291	14.789	16.099	12.479
2.700	62.295	559.	15703.	9.234	-26.366	14.714	16.024	12.404
2.700	62.295	559.	15703.	9.234	-26.366	14.714	16.024	12.404
2.700	62.297	559.	15704.	9.233	-26.367	14.713	16.023	12.403
2.733	62.297	559.	15704.	9.233	-26.367	14.713	16.023	12.403
2.733	62.526	564.	15754.	9.179	-26.421	14.659	15.969	12.349
2.750	62.526	564.	15754.	9.179	-26.421	14.659	15.969	12.349
2.750	62.640	567.	15780.	9.152	-26.448	14.632	15.942	12.322
2.750	62.640	567.	15780.	9.152	-26.448	14.632	15.942	12.322
2.750	62.643	567.	15780.	9.152	-26.448	14.632	15.942	12.322
2.800	62.643	567.	15780.	9.152	-26.448	14.632	15.942	12.322
2.800	63.010	576.	15860.	9.067	-26.533	14.547	15.857	12.237
2.800	63.010	576.	15860.	9.067	-26.533	14.547	15.857	12.237
2.800	63.012	576.	15861.	9.066	-26.534	14.546	15.856	12.236
2.850	63.012	576.	15861.	9.066	-26.534	14.546	15.856	12.236
2.850	63.403	585.	15945.	8.976	-26.624	14.456	15.766	12.146
2.850	63.403	585.	15945.	8.976	-26.624	14.456	15.766	12.146
2.850	63.405	585.	15946.	8.976	-26.624	14.456	15.766	12.146
2.867	63.405	585.	15946.	8.976	-26.624	14.456	15.766	12.146
2.867	63.544	589.	15976.	8.944	-26.656	14.424	15.734	12.114
2.900	63.544	589.	15976.	8.944	-26.656	14.424	15.734	12.114
2.900	63.820	595.	16035.	8.882	-26.718	14.362	15.672	12.052
2.900	63.820	595.	16035.	8.882	-26.718	14.362	15.672	12.052
2.900	63.823	595.	16035.	8.881	-26.719	14.361	15.671	12.051
2.950	63.823	595.	16035.	8.881	-26.719	14.361	15.671	12.051
2.950	64.261	606.	16128.	8.783	-26.817	14.263	15.573	11.953
2.950	64.261	606.	16128.	8.783	-26.817	14.263	15.573	11.953
2.950	64.264	606.	16128.	8.783	-26.817	14.263	15.573	11.953
2.996	64.264	606.	16128.	8.783	-26.817	14.263	15.573	11.953
2.996	64.693	616.	16217.	8.688	-26.912	14.168	15.478	11.858
3.000	64.693	616.	16217.	8.688	-26.912	14.168	15.478	11.858
3.000	64.723	617.	16224.	8.682	-26.918	14.162	15.472	11.852
3.000	64.723	617.	16224.	8.682	-26.918	14.162	15.472	11.852
3.000	64.726	617.	16224.	8.681	-26.919	14.161	15.471	11.851

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

INPUT SECTION - 3n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF TOP	Y-REINF BOT
FRAC	(in ²)	(in4)	(in4)	(in)	(in)	(in)	(in)	(in)
3.000	64.726	617.	16224.	8.681	-26.919	14.161	15.471	11.851
3.000	64.729	617.	16225.	8.680	-26.920	14.160	15.470	11.850
3.231	64.729	617.	16225.	8.680	-26.920	14.160	15.470	11.850
3.231	64.762	618.	16232.	8.673	-26.927	14.153	15.463	11.843
4.000	64.762	618.	16232.	8.673	-26.927	14.153	15.463	11.843
4.000	64.874	621.	16255.	8.649	-26.951	14.129	15.439	11.819

GIRDER: S1

INPUT SECTION - 3n-COMPOSITE SECTION PROPERTIES - NEGATIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF TOP	Y-REINF BOT
FRAC	(in ²)	(in4)	(in4)	(in)	(in)	(in)	(in)	(in)
0.000	51.712	12.	12075.	15.711	-20.289	20.961	22.271	18.651
0.769	51.712	12.	12075.	15.711	-20.289	20.961	22.271	18.651
0.769	51.689	12.	12065.	15.720	-20.280	20.970	22.280	18.660
1.000	51.689	12.	12065.	15.720	-20.280	20.970	22.280	18.660
1.000	51.682	12.	12062.	15.723	-20.277	20.973	22.283	18.663
1.000	51.682	12.	12062.	15.723	-20.277	20.973	22.283	18.663
1.000	51.681	12.	12061.	15.723	-20.277	20.973	22.283	18.663
1.000	51.681	12.	12061.	15.723	-20.277	20.973	22.283	18.663
1.000	46.554	12.	9612.	18.000	-18.000	23.250	24.560	20.940
1.742	46.554	12.	9612.	18.000	-18.000	23.250	24.560	20.940
1.742	50.783	12.	11668.	16.089	-19.911	21.339	22.649	19.029
1.750	50.783	12.	11668.	16.089	-19.911	21.339	22.649	19.029
1.750	50.778	12.	11666.	16.091	-19.909	21.341	22.651	19.031
1.800	50.778	12.	11666.	16.091	-19.909	21.341	22.651	19.031
1.800	50.757	12.	11656.	16.100	-19.900	21.350	22.660	19.040
1.801	50.757	12.	11656.	16.100	-19.900	21.350	22.660	19.040
1.801	50.756	12.	11656.	16.100	-19.900	21.350	22.660	19.040
1.850	50.756	12.	11656.	16.100	-19.900	21.350	22.660	19.040
1.850	50.740	12.	11649.	16.107	-19.893	21.357	22.667	19.047
1.900	50.740	12.	11649.	16.107	-19.893	21.357	22.667	19.047
1.900	50.728	12.	11643.	16.112	-19.888	21.362	22.672	19.052
1.950	50.728	12.	11643.	16.112	-19.888	21.362	22.672	19.052
1.950	50.720	12.	11640.	16.115	-19.885	21.365	22.675	19.055
1.996	50.720	12.	11640.	16.115	-19.885	21.365	22.675	19.055
1.996	50.718	12.	11639.	16.116	-19.884	21.366	22.676	19.056
2.000	50.718	12.	11639.	16.116	-19.884	21.366	22.676	19.056
2.000	50.718	12.	11639.	16.116	-19.884	21.366	22.676	19.056
2.050	50.720	12.	11640.	16.115	-19.885	21.365	22.675	19.055
2.100	50.720	12.	11640.	16.115	-19.885	21.365	22.675	19.055
2.100	50.728	12.	11643.	16.112	-19.888	21.362	22.672	19.052
2.150	50.728	12.	11643.	16.112	-19.888	21.362	22.672	19.052
2.150	50.740	12.	11649.	16.107	-19.893	21.357	22.667	19.047
2.200	50.740	12.	11649.	16.107	-19.893	21.357	22.667	19.047
2.200	50.757	12.	11656.	16.100	-19.900	21.350	22.660	19.040
2.202	50.757	12.	11656.	16.100	-19.900	21.350	22.660	19.040
2.202	50.757	12.	11656.	16.099	-19.901	21.349	22.659	19.039
2.250	50.757	12.	11656.	16.099	-19.901	21.349	22.659	19.039
2.250	50.778	12.	11666.	16.091	-19.909	21.341	22.651	19.031
2.250	50.778	12.	11666.	16.091	-19.909	21.341	22.651	19.031
2.250	46.356	9.	10381.	14.869	-20.961	20.119	21.429	17.809
2.251	46.356	9.	10381.	14.869	-20.961	20.119	21.429	17.809
2.251	46.357	9.	10381.	14.869	-20.961	20.119	21.429	17.809
2.251	46.357	9.	10381.	14.869	-20.961	20.119	21.429	17.809
2.251	43.597	7.	9742.	15.573	-20.027	21.053	22.363	18.743
2.262	43.597	7.	9742.	15.573	-20.027	21.053	22.363	18.743
2.262	43.603	7.	9745.	15.570	-20.030	21.050	22.360	18.740

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

INPUT SECTION - 3n-COMPOSITE SECTION PROPERTIES - NEGATIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF	Y-REINF
FRAC	(in ²)	(in4)	(in4)	(in)	(in)	(in)	TOP	BOT
							(in)	(in)
2.262	43.603	7.	9745.	15.570	-20.030	21.050	22.360	18.740
2.262	39.372	7.	7713.	17.800	-17.800	23.280	24.590	20.970
3.000	39.372	7.	7713.	17.800	-17.800	23.280	24.590	20.970
3.000	44.499	7.	10126.	15.152	-20.448	20.632	21.942	18.322
3.000	44.499	7.	10126.	15.152	-20.448	20.632	21.942	18.322
3.000	44.500	7.	10126.	15.152	-20.448	20.632	21.942	18.322
3.000	44.500	7.	10126.	15.152	-20.448	20.632	21.942	18.322
3.231	44.507	7.	10129.	15.149	-20.451	20.629	21.939	18.319
4.000	44.507	7.	10129.	15.149	-20.451	20.629	21.939	18.319
4.000	44.530	7.	10138.	15.138	-20.462	20.618	21.928	18.308

GIRDER: S1

INPUT SECTION - 1n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF	Y-REINF
FRAC	(in ²)	(in4)	(in4)	(in)	(in)	(in)	TOP	BOT
							(in)	(in)
0.000	123.061	1854.	25718.	3.545	-32.455	8.795	10.105	6.485
0.769	123.061	1854.	25718.	3.545	-32.455	8.795	10.105	6.485
0.769	122.724	1846.	25690.	3.570	-32.430	8.820	10.130	6.510
1.000	122.724	1846.	25690.	3.570	-32.430	8.820	10.130	6.510
1.000	122.624	1844.	25681.	3.577	-32.423	8.827	10.137	6.517
1.000	122.624	1844.	25681.	3.577	-32.423	8.827	10.137	6.517
1.000	122.615	1844.	25681.	3.577	-32.423	8.827	10.137	6.517
1.000	122.615	1844.	25681.	3.577	-32.423	8.827	10.137	6.517
1.000	122.606	1843.	25680.	3.578	-32.422	8.828	10.138	6.518
1.004	122.606	1843.	25680.	3.578	-32.422	8.828	10.138	6.518
1.004	122.516	1841.	25672.	3.585	-32.415	8.835	10.145	6.525
1.050	122.516	1841.	25672.	3.585	-32.415	8.835	10.145	6.525
1.050	121.229	1810.	25563.	3.678	-32.322	8.928	10.238	6.618
1.050	121.229	1810.	25563.	3.678	-32.322	8.928	10.238	6.618
1.050	121.220	1810.	25562.	3.679	-32.321	8.929	10.239	6.619
1.100	121.220	1810.	25562.	3.679	-32.321	8.929	10.239	6.619
1.100	119.906	1778.	25448.	3.777	-32.223	9.027	10.337	6.717
1.100	119.906	1778.	25448.	3.777	-32.223	9.027	10.337	6.717
1.100	119.898	1778.	25448.	3.778	-32.222	9.028	10.338	6.718
1.133	119.898	1778.	25448.	3.778	-32.222	9.028	10.338	6.718
1.133	119.069	1758.	25375.	3.840	-32.160	9.090	10.400	6.780
1.150	119.069	1758.	25375.	3.840	-32.160	9.090	10.400	6.780
1.150	118.654	1748.	25338.	3.872	-32.128	9.122	10.432	6.812
1.150	118.654	1748.	25338.	3.872	-32.128	9.122	10.432	6.812
1.150	118.647	1748.	25337.	3.873	-32.127	9.123	10.433	6.813
1.200	118.647	1748.	25337.	3.873	-32.127	9.123	10.433	6.813
1.200	117.474	1720.	25232.	3.964	-32.036	9.214	10.524	6.904
1.200	117.474	1720.	25232.	3.964	-32.036	9.214	10.524	6.904
1.200	117.467	1720.	25231.	3.964	-32.036	9.214	10.524	6.904
1.250	117.467	1720.	25231.	3.964	-32.036	9.214	10.524	6.904
1.250	116.366	1693.	25130.	4.052	-31.948	9.302	10.612	6.992
1.250	116.366	1693.	25130.	4.052	-31.948	9.302	10.612	6.992
1.250	116.359	1693.	25129.	4.052	-31.948	9.302	10.612	6.992
1.267	116.359	1693.	25129.	4.052	-31.948	9.302	10.612	6.992
1.267	116.016	1685.	25097.	4.080	-31.920	9.330	10.640	7.020
1.300	116.016	1685.	25097.	4.080	-31.920	9.330	10.640	7.020
1.300	115.329	1668.	25033.	4.135	-31.865	9.385	10.695	7.075
1.300	115.329	1668.	25033.	4.135	-31.865	9.385	10.695	7.075
1.300	115.323	1668.	25033.	4.136	-31.864	9.386	10.696	7.076
1.350	115.323	1668.	25033.	4.136	-31.864	9.386	10.696	7.076
1.350	114.364	1645.	24942.	4.214	-31.786	9.464	10.774	7.154
1.350	114.364	1645.	24942.	4.214	-31.786	9.464	10.774	7.154
1.350	114.358	1645.	24941.	4.215	-31.785	9.465	10.775	7.155
1.366	114.358	1645.	24941.	4.215	-31.785	9.465	10.775	7.155

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

INPUT SECTION - 1n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF	Y-REINF
FRAC	(in ²)	(in4)	(in4)	(in)	(in)	(in)	TOP	BOT
							(in)	(in)
1.366	114.066	1638.	24913.	4.239	-31.761	9.489	10.799	7.179
1.400	114.066	1638.	24913.	4.239	-31.761	9.489	10.799	7.179
1.400	113.470	1623.	24856.	4.289	-31.711	9.539	10.849	7.229
1.400	113.470	1623.	24856.	4.289	-31.711	9.539	10.849	7.229
1.400	113.465	1623.	24855.	4.289	-31.711	9.539	10.849	7.229
1.450	113.465	1623.	24855.	4.289	-31.711	9.539	10.849	7.229
1.450	112.648	1604.	24775.	4.359	-31.641	9.609	10.919	7.299
1.450	112.648	1604.	24775.	4.359	-31.641	9.609	10.919	7.299
1.450	112.643	1603.	24775.	4.359	-31.641	9.609	10.919	7.299
1.500	112.643	1603.	24775.	4.359	-31.641	9.609	10.919	7.299
1.500	111.897	1585.	24701.	4.423	-31.577	9.673	10.983	7.363
1.500	111.897	1585.	24701.	4.423	-31.577	9.673	10.983	7.363
1.500	111.893	1585.	24700.	4.423	-31.577	9.673	10.983	7.363
1.533	111.893	1585.	24700.	4.423	-31.577	9.673	10.983	7.363
1.533	111.443	1575.	24655.	4.462	-31.538	9.712	11.022	7.402
1.550	111.443	1575.	24655.	4.462	-31.538	9.712	11.022	7.402
1.550	111.218	1569.	24633.	4.482	-31.518	9.732	11.042	7.422
1.550	111.218	1569.	24633.	4.482	-31.518	9.732	11.042	7.422
1.550	111.214	1569.	24632.	4.482	-31.518	9.732	11.042	7.422
1.600	111.214	1569.	24632.	4.482	-31.518	9.732	11.042	7.422
1.600	110.610	1554.	24571.	4.536	-31.464	9.786	11.096	7.476
1.600	110.610	1554.	24571.	4.536	-31.464	9.786	11.096	7.476
1.600	110.606	1554.	24571.	4.536	-31.464	9.786	11.096	7.476
1.650	110.606	1554.	24571.	4.536	-31.464	9.786	11.096	7.476
1.650	110.074	1542.	24517.	4.583	-31.417	9.833	11.143	7.523
1.650	110.074	1542.	24517.	4.583	-31.417	9.833	11.143	7.523
1.650	110.071	1541.	24516.	4.584	-31.416	9.834	11.144	7.524
1.667	110.071	1541.	24516.	4.584	-31.416	9.834	11.144	7.524
1.667	109.912	1538.	24500.	4.598	-31.402	9.848	11.158	7.538
1.700	109.912	1538.	24500.	4.598	-31.402	9.848	11.158	7.538
1.700	109.609	1530.	24469.	4.625	-31.375	9.875	11.185	7.565
1.700	109.609	1530.	24469.	4.625	-31.375	9.875	11.185	7.565
1.700	109.606	1530.	24468.	4.625	-31.375	9.875	11.185	7.565
1.742	109.606	1530.	24468.	4.625	-31.375	9.875	11.185	7.565
1.742	109.278	1522.	24434.	4.655	-31.345	9.905	11.215	7.595
1.750	109.278	1522.	24434.	4.655	-31.345	9.905	11.215	7.595
1.750	109.216	1521.	24428.	4.660	-31.340	9.910	11.220	7.600
1.750	109.216	1521.	24428.	4.660	-31.340	9.910	11.220	7.600
1.750	109.213	1521.	24427.	4.661	-31.339	9.911	11.221	7.601
1.800	109.213	1521.	24427.	4.661	-31.339	9.911	11.221	7.601
1.800	108.894	1513.	24394.	4.690	-31.310	9.940	11.250	7.630
1.800	108.894	1513.	24394.	4.690	-31.310	9.940	11.250	7.630
1.800	108.892	1513.	24394.	4.690	-31.310	9.940	11.250	7.630
1.801	108.892	1513.	24394.	4.690	-31.310	9.940	11.250	7.630
1.801	108.887	1513.	24393.	4.690	-31.310	9.940	11.250	7.630
1.850	108.887	1513.	24393.	4.690	-31.310	9.940	11.250	7.630
1.850	108.643	1507.	24368.	4.713	-31.287	9.963	11.273	7.653
1.850	108.643	1507.	24368.	4.713	-31.287	9.963	11.273	7.653
1.850	108.642	1507.	24368.	4.713	-31.287	9.963	11.273	7.653
1.900	108.642	1507.	24368.	4.713	-31.287	9.963	11.273	7.653
1.900	108.465	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
1.900	108.465	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
1.900	108.464	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
1.900	108.464	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
1.900	108.463	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
1.950	108.463	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
1.950	108.357	1500.	24338.	4.739	-31.261	9.989	11.299	7.679
1.996	108.357	1500.	24338.	4.739	-31.261	9.989	11.299	7.679
1.996	108.324	1499.	24334.	4.742	-31.258	9.992	11.302	7.682
2.000	108.324	1499.	24334.	4.742	-31.258	9.992	11.302	7.682
2.000	108.321	1499.	24334.	4.742	-31.258	9.992	11.302	7.682

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----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

INPUT SECTION - 1n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF	Y-REINF
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in)	(in)	(in)	TOP	BOT
							(in)	(in)
2.004	108.321	1499.	24334.	4.742	-31.258	9.992	11.302	7.682
2.004	108.324	1499.	24334.	4.742	-31.258	9.992	11.302	7.682
2.050	108.324	1499.	24334.	4.742	-31.258	9.992	11.302	7.682
2.050	108.357	1500.	24338.	4.739	-31.261	9.989	11.299	7.679
2.100	108.357	1500.	24338.	4.739	-31.261	9.989	11.299	7.679
2.100	108.464	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
2.100	108.464	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
2.100	108.465	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
2.101	108.465	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
2.101	108.468	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
2.150	108.468	1503.	24349.	4.729	-31.271	9.979	11.289	7.669
2.150	108.642	1507.	24368.	4.713	-31.287	9.963	11.273	7.653
2.150	108.642	1507.	24368.	4.713	-31.287	9.963	11.273	7.653
2.150	108.643	1507.	24368.	4.713	-31.287	9.963	11.273	7.653
2.200	108.643	1507.	24368.	4.713	-31.287	9.963	11.273	7.653
2.200	108.892	1513.	24394.	4.690	-31.310	9.940	11.250	7.630
2.200	108.892	1513.	24394.	4.690	-31.310	9.940	11.250	7.630
2.200	108.894	1513.	24394.	4.690	-31.310	9.940	11.250	7.630
2.202	108.894	1513.	24394.	4.690	-31.310	9.940	11.250	7.630
2.202	108.906	1513.	24395.	4.689	-31.311	9.939	11.249	7.629
2.250	108.906	1513.	24395.	4.689	-31.311	9.939	11.249	7.629
2.250	109.213	1521.	24427.	4.661	-31.339	9.911	11.221	7.601
2.250	109.213	1521.	24427.	4.661	-31.339	9.911	11.221	7.601
2.250	104.794	1518.	21230.	3.638	-32.192	8.888	10.198	6.578
2.251	104.794	1518.	21230.	3.638	-32.192	8.888	10.198	6.578
2.251	104.803	1518.	21231.	3.637	-32.193	8.887	10.197	6.577
2.251	104.803	1518.	21231.	3.637	-32.193	8.887	10.197	6.577
2.251	102.043	1516.	21196.	3.502	-32.098	8.982	10.292	6.672
2.262	102.043	1516.	21196.	3.502	-32.098	8.982	10.292	6.672
2.262	102.129	1518.	21203.	3.495	-32.105	8.975	10.285	6.665
2.300	102.129	1518.	21203.	3.495	-32.105	8.975	10.285	6.665
2.300	102.424	1525.	21229.	3.469	-32.131	8.949	10.259	6.639
2.300	102.424	1525.	21229.	3.469	-32.131	8.949	10.259	6.639
2.300	102.427	1525.	21229.	3.469	-32.131	8.949	10.259	6.639
2.334	102.427	1525.	21229.	3.469	-32.131	8.949	10.259	6.639
2.334	102.743	1533.	21256.	3.441	-32.159	8.921	10.231	6.611
2.350	102.743	1533.	21256.	3.441	-32.159	8.921	10.231	6.611
2.350	102.889	1536.	21268.	3.428	-32.172	8.908	10.218	6.598
2.350	102.889	1536.	21268.	3.428	-32.172	8.908	10.218	6.598
2.350	102.892	1536.	21269.	3.428	-32.172	8.908	10.218	6.598
2.400	102.892	1536.	21269.	3.428	-32.172	8.908	10.218	6.598
2.400	103.424	1549.	21314.	3.382	-32.218	8.862	10.172	6.552
2.400	103.424	1549.	21314.	3.382	-32.218	8.862	10.172	6.552
2.400	103.428	1549.	21314.	3.382	-32.218	8.862	10.172	6.552
2.450	103.428	1549.	21314.	3.382	-32.218	8.862	10.172	6.552
2.450	104.032	1564.	21365.	3.331	-32.269	8.811	10.121	6.501
2.450	104.032	1564.	21365.	3.331	-32.269	8.811	10.121	6.501
2.450	104.036	1564.	21365.	3.330	-32.270	8.810	10.120	6.500
2.467	104.036	1564.	21365.	3.330	-32.270	8.810	10.120	6.500
2.467	104.261	1569.	21384.	3.311	-32.289	8.791	10.101	6.481
2.500	104.261	1569.	21384.	3.311	-32.289	8.791	10.101	6.481
2.500	104.711	1580.	21421.	3.273	-32.327	8.753	10.063	6.443
2.500	104.711	1580.	21421.	3.273	-32.327	8.753	10.063	6.443
2.500	104.715	1580.	21422.	3.273	-32.327	8.753	10.063	6.443
2.550	104.715	1580.	21422.	3.273	-32.327	8.753	10.063	6.443
2.550	105.461	1598.	21483.	3.211	-32.389	8.691	10.001	6.381
2.550	105.461	1598.	21483.	3.211	-32.389	8.691	10.001	6.381
2.550	105.466	1598.	21483.	3.211	-32.389	8.691	10.001	6.381
2.550	105.466	1598.	21483.	3.211	-32.389	8.691	10.001	6.381
2.600	105.466	1598.	21483.	3.211	-32.389	8.691	10.001	6.381
2.600	106.283	1618.	21550.	3.144	-32.456	8.624	9.934	6.314
2.600	106.283	1618.	21550.	3.144	-32.456	8.624	9.934	6.314
2.600	106.288	1618.	21550.	3.144	-32.456	8.624	9.934	6.314
2.636	106.288	1618.	21550.	3.144	-32.456	8.624	9.934	6.314

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

INPUT SECTION - 1n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF	Y-REINF
FRAC	(in ²)	(in4)	(in4)	(in)	(in)	(in)	TOP	BOT
2.636	106.926	1633.	21601.	3.092	-32.508	8.572	9.882	6.262
2.650	106.926	1633.	21601.	3.092	-32.508	8.572	9.882	6.262
2.650	107.176	1639.	21621.	3.072	-32.528	8.552	9.862	6.242
2.650	107.176	1639.	21621.	3.072	-32.528	8.552	9.862	6.242
2.650	107.182	1640.	21621.	3.072	-32.528	8.552	9.862	6.242
2.700	107.182	1640.	21621.	3.072	-32.528	8.552	9.862	6.242
2.700	108.141	1663.	21697.	2.996	-32.604	8.476	9.786	6.166
2.700	108.141	1663.	21697.	2.996	-32.604	8.476	9.786	6.166
2.700	108.147	1663.	21697.	2.995	-32.605	8.475	9.785	6.165
2.733	108.147	1663.	21697.	2.995	-32.605	8.475	9.785	6.165
2.733	108.834	1679.	21750.	2.942	-32.658	8.422	9.732	6.112
2.750	108.834	1679.	21750.	2.942	-32.658	8.422	9.732	6.112
2.750	109.177	1688.	21777.	2.915	-32.685	8.395	9.705	6.085
2.750	109.177	1688.	21777.	2.915	-32.685	8.395	9.705	6.085
2.750	109.184	1688.	21777.	2.915	-32.685	8.395	9.705	6.085
2.800	109.184	1688.	21777.	2.915	-32.685	8.395	9.705	6.085
2.800	110.285	1714.	21861.	2.831	-32.769	8.311	9.621	6.001
2.800	110.285	1714.	21861.	2.831	-32.769	8.311	9.621	6.001
2.800	110.292	1715.	21861.	2.830	-32.770	8.310	9.620	6.000
2.850	110.292	1715.	21861.	2.830	-32.770	8.310	9.620	6.000
2.850	111.465	1743.	21948.	2.743	-32.857	8.223	9.533	5.913
2.850	111.465	1743.	21948.	2.743	-32.857	8.223	9.533	5.913
2.850	111.472	1743.	21949.	2.742	-32.858	8.222	9.532	5.912
2.867	111.472	1743.	21949.	2.742	-32.858	8.222	9.532	5.912
2.867	111.887	1753.	21979.	2.712	-32.888	8.192	9.502	5.882
2.900	111.887	1753.	21979.	2.712	-32.888	8.192	9.502	5.882
2.900	112.716	1773.	22039.	2.652	-32.948	8.132	9.442	5.822
2.900	112.716	1773.	22039.	2.652	-32.948	8.132	9.442	5.822
2.900	112.724	1773.	22040.	2.651	-32.949	8.131	9.441	5.821
2.950	112.724	1773.	22040.	2.651	-32.949	8.131	9.441	5.821
2.950	114.038	1805.	22134.	2.557	-33.043	8.037	9.347	5.727
2.950	114.038	1805.	22134.	2.557	-33.043	8.037	9.347	5.727
2.950	114.047	1805.	22134.	2.557	-33.043	8.037	9.347	5.727
2.996	114.047	1805.	22134.	2.557	-33.043	8.037	9.347	5.727
2.996	115.334	1836.	22224.	2.467	-33.133	7.947	9.257	5.637
3.000	115.334	1836.	22224.	2.467	-33.133	7.947	9.257	5.637
3.000	115.425	1838.	22231.	2.461	-33.139	7.941	9.251	5.631
3.000	115.425	1838.	22231.	2.461	-33.139	7.941	9.251	5.631
3.000	115.433	1838.	22231.	2.460	-33.140	7.940	9.250	5.630
3.000	115.433	1838.	22231.	2.460	-33.140	7.940	9.250	5.630
3.000	115.442	1839.	22232.	2.460	-33.140	7.940	9.250	5.630
3.231	115.442	1839.	22232.	2.460	-33.140	7.940	9.250	5.630
3.231	115.542	1841.	22239.	2.453	-33.147	7.933	9.243	5.623
4.000	115.542	1841.	22239.	2.453	-33.147	7.933	9.243	5.623
4.000	115.879	1849.	22262.	2.430	-33.170	7.910	9.220	5.600

GIRDER: S1

INPUT SECTION - 1n-COMPOSITE SECTION PROPERTIES - NEGATIVE MOMENT

SPAN.LOC	A	Ixx	Izz	Y-TOP	Y-BOT	Y-SLAB	Y-REINF	Y-REINF
FRAC	(in ²)	(in4)	(in4)	(in)	(in)	(in)	TOP	BOT
0.000	51.712	12.	12075.	15.711	-20.289	20.961	22.271	18.651
0.769	51.712	12.	12075.	15.711	-20.289	20.961	22.271	18.651
0.769	51.689	12.	12065.	15.720	-20.280	20.970	22.280	18.660
1.000	51.689	12.	12065.	15.720	-20.280	20.970	22.280	18.660
1.000	51.682	12.	12062.	15.723	-20.277	20.973	22.283	18.663
1.000	51.682	12.	12062.	15.723	-20.277	20.973	22.283	18.663
1.000	51.681	12.	12061.	15.723	-20.277	20.973	22.283	18.663
1.000	51.681	12.	12061.	15.723	-20.277	20.973	22.283	18.663
1.000	46.554	12.	9612.	18.000	-18.000	23.250	24.560	20.940

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

INPUT SECTION - 1n-COMPOSITE SECTION PROPERTIES - NEGATIVE MOMENT

SPAN.LOC FRAC	A (in ²)	Ixx (in4)	Izz (in4)	Y-TOP (in)	Y-BOT (in)	Y-SLAB (in)	Y-REINF TOP (in)	Y-REINF BOT (in)
1.742	46.554	12.	9612.	18.000	-18.000	23.250	24.560	20.940
1.742	50.783	12.	11668.	16.089	-19.911	21.339	22.649	19.029
1.750	50.783	12.	11668.	16.089	-19.911	21.339	22.649	19.029
1.750	50.778	12.	11666.	16.091	-19.909	21.341	22.651	19.031
1.800	50.778	12.	11666.	16.091	-19.909	21.341	22.651	19.031
1.800	50.757	12.	11656.	16.100	-19.900	21.350	22.660	19.040
1.801	50.757	12.	11656.	16.100	-19.900	21.350	22.660	19.040
1.801	50.756	12.	11656.	16.100	-19.900	21.350	22.660	19.040
1.850	50.756	12.	11656.	16.100	-19.900	21.350	22.660	19.040
1.850	50.740	12.	11649.	16.107	-19.893	21.357	22.667	19.047
1.900	50.740	12.	11649.	16.107	-19.893	21.357	22.667	19.047
1.900	50.728	12.	11643.	16.112	-19.888	21.362	22.672	19.052
1.950	50.728	12.	11643.	16.112	-19.888	21.362	22.672	19.052
1.950	50.720	12.	11640.	16.115	-19.885	21.365	22.675	19.055
1.996	50.720	12.	11640.	16.115	-19.885	21.365	22.675	19.055
1.996	50.718	12.	11639.	16.116	-19.884	21.366	22.676	19.056
2.000	50.718	12.	11639.	16.116	-19.884	21.366	22.676	19.056
2.000	50.718	12.	11639.	16.116	-19.884	21.366	22.676	19.056
2.050	50.720	12.	11640.	16.115	-19.885	21.365	22.675	19.055
2.100	50.720	12.	11640.	16.115	-19.885	21.365	22.675	19.055
2.100	50.728	12.	11643.	16.112	-19.888	21.362	22.672	19.052
2.150	50.728	12.	11643.	16.112	-19.888	21.362	22.672	19.052
2.150	50.740	12.	11649.	16.107	-19.893	21.357	22.667	19.047
2.200	50.740	12.	11649.	16.107	-19.893	21.357	22.667	19.047
2.200	50.757	12.	11656.	16.100	-19.900	21.350	22.660	19.040
2.202	50.757	12.	11656.	16.100	-19.900	21.350	22.660	19.040
2.202	50.757	12.	11656.	16.099	-19.901	21.349	22.659	19.039
2.250	50.757	12.	11656.	16.099	-19.901	21.349	22.659	19.039
2.250	50.778	12.	11666.	16.091	-19.909	21.341	22.651	19.031
2.250	50.778	12.	11666.	16.091	-19.909	21.341	22.651	19.031
2.250	46.356	9.	10381.	14.869	-20.961	20.119	21.429	17.809
2.251	46.356	9.	10381.	14.869	-20.961	20.119	21.429	17.809
2.251	46.357	9.	10381.	14.869	-20.961	20.119	21.429	17.809
2.251	46.357	9.	10381.	14.869	-20.961	20.119	21.429	17.809
2.251	43.597	7.	9742.	15.573	-20.027	21.053	22.363	18.743
2.262	43.597	7.	9742.	15.573	-20.027	21.053	22.363	18.743
2.262	43.603	7.	9745.	15.570	-20.030	21.050	22.360	18.740
2.262	43.603	7.	9745.	15.570	-20.030	21.050	22.360	18.740
2.262	39.372	7.	7713.	17.800	-17.800	23.280	24.590	20.970
3.000	39.372	7.	7713.	17.800	-17.800	23.280	24.590	20.970
3.000	44.499	7.	10126.	15.152	-20.448	20.632	21.942	18.322
3.000	44.499	7.	10126.	15.152	-20.448	20.632	21.942	18.322
3.000	44.500	7.	10126.	15.152	-20.448	20.632	21.942	18.322
3.000	44.500	7.	10126.	15.152	-20.448	20.632	21.942	18.322
3.231	44.507	7.	10129.	15.149	-20.451	20.629	21.939	18.319
4.000	44.507	7.	10129.	15.149	-20.451	20.629	21.939	18.319
4.000	44.530	7.	10138.	15.138	-20.462	20.618	21.928	18.308

GIRDER: S2

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	A (in ²)	Ixx (in4)	Izz (in4)
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.

□

----- SECTION PROPERTIES -----

GIRDER: S2 (Continued)

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)
1.000	46.554	63.	9612.
1.801	46.554	63.	9612.
1.801	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	100.	9612.
2.201	46.554	100.	9612.
2.201	46.554	64.	9612.
2.250	46.554	64.	9612.
2.250	42.132	54.	8541.
2.251	42.132	54.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

GIRDER: S2

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	3n-COMPOSITE			1n-COMPOSITE		
	A	Ixx	Izz	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in ²)	(in ⁴)	(in ⁴)
0.000	74.006	3666.	19112.	128.910	6013.	26185.
0.769	74.006	3666.	19112.	128.910	6013.	26185.
0.769	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	74.006	1270.	19112.	128.910	3402.	26185.
1.533	74.006	1270.	19112.	128.910	3402.	26185.
1.533	74.006	1269.	19112.	128.910	3401.	26185.
1.745	74.006	1269.	19112.	128.910	3401.	26185.
1.745	52.106	1269.	12243.	52.106	3401.	12243.
1.801	52.106	1269.	12243.	52.106	3401.	12243.
1.801	52.106	1395.	12243.	52.106	3571.	12243.
2.000	52.106	1395.	12243.	52.106	3571.	12243.
2.000	52.106	1395.	12243.	52.106	3571.	12243.
2.000	52.106	1389.	12243.	52.106	3563.	12243.
2.201	52.106	1389.	12243.	52.106	3563.	12243.
2.201	52.106	1272.	12243.	52.106	3405.	12243.
2.250	52.106	1272.	12243.	52.106	3405.	12243.
2.250	47.684	1229.	10892.	47.684	3345.	10892.
2.251	47.684	1229.	10892.	47.684	3345.	10892.
2.251	44.924	1227.	10301.	44.924	3343.	10301.
2.260	44.924	1227.	10301.	44.924	3343.	10301.
2.260	66.824	1227.	16644.	121.728	3343.	22646.
2.467	66.824	1227.	16644.	121.728	3343.	22646.
2.467	66.824	1225.	16644.	121.728	3341.	22646.
3.000	66.824	1225.	16644.	121.728	3341.	22646.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	66.824	3100.	16644.	121.728	5430.	22646.

□

----- SECTION PROPERTIES -----

GIRDER: S3

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	63.	9612.
1.801	46.554	63.	9612.
1.801	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	101.	9612.
2.201	46.554	101.	9612.
2.201	46.554	64.	9612.
2.250	46.554	64.	9612.
2.250	42.132	54.	8541.
2.251	42.132	54.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

GIRDER: S3

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	3n-COMPOSITE			1n-COMPOSITE		
	A	Ixx	Izz	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in ²)	(in ⁴)	(in ⁴)
0.000	74.006	3666.	19112.	128.910	6013.	26185.
0.769	74.006	3666.	19112.	128.910	6013.	26185.
0.769	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	74.006	1270.	19112.	128.910	3402.	26185.
1.533	74.006	1270.	19112.	128.910	3402.	26185.
1.533	74.006	1270.	19112.	128.910	3401.	26185.
1.745	74.006	1270.	19112.	128.910	3401.	26185.
1.745	52.106	1270.	12243.	52.106	3401.	12243.
1.801	52.106	1270.	12243.	52.106	3401.	12243.
1.801	52.106	1395.	12243.	52.106	3570.	12243.
2.000	52.106	1395.	12243.	52.106	3570.	12243.
2.000	52.106	1395.	12243.	52.106	3570.	12243.
2.000	52.106	1390.	12243.	52.106	3564.	12243.
2.201	52.106	1390.	12243.	52.106	3564.	12243.
2.201	52.106	1272.	12243.	52.106	3404.	12243.
2.250	52.106	1272.	12243.	52.106	3404.	12243.
2.250	47.684	1229.	10892.	47.684	3345.	10892.
2.251	47.684	1229.	10892.	47.684	3345.	10892.
2.251	44.924	1226.	10301.	44.924	3342.	10301.
2.260	44.924	1226.	10301.	44.924	3342.	10301.
2.260	66.824	1226.	16644.	121.728	3342.	22646.
2.467	66.824	1226.	16644.	121.728	3342.	22646.
2.467	66.824	1225.	16644.	121.728	3341.	22646.
3.000	66.824	1225.	16644.	121.728	3341.	22646.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	3100.	10301.	44.924	5430.	10301.

□

----- SECTION PROPERTIES -----

GIRDER: S3 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
FRAC						
4.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	66.824	3100.	16644.	121.728	5430.	22646.

GIRDER: S4

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
FRAC			
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	63.	9612.
1.800	46.554	63.	9612.
1.800	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	101.	9612.
2.201	46.554	101.	9612.
2.201	46.554	64.	9612.
2.250	46.554	64.	9612.
2.250	42.132	54.	8541.
2.251	42.132	54.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

GIRDER: S4

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
FRAC						
0.000	74.006	3666.	19112.	128.910	6013.	26185.
0.769	74.006	3666.	19112.	128.910	6013.	26185.
0.769	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	74.006	1270.	19112.	128.910	3402.	26185.
1.744	74.006	1270.	19112.	128.910	3402.	26185.
1.744	52.106	1270.	12243.	52.106	3402.	12243.
1.800	52.106	1270.	12243.	52.106	3402.	12243.
1.800	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1391.	12243.	52.106	3565.	12243.
2.201	52.106	1391.	12243.	52.106	3565.	12243.
2.201	52.106	1271.	12243.	52.106	3404.	12243.
2.250	52.106	1271.	12243.	52.106	3404.	12243.
2.250	47.684	1229.	10892.	47.684	3344.	10892.
2.251	47.684	1229.	10892.	47.684	3344.	10892.
2.251	44.924	1226.	10301.	44.924	3342.	10301.
2.260	44.924	1226.	10301.	44.924	3342.	10301.

□

----- SECTION PROPERTIES -----

GIRDER: S4 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in4)	Izz (in4)	A (in ²)	Ixx (in4)	Izz (in4)
2.260	66.824	1226.	16644.	121.728	3342.	22646.
2.467	66.824	1226.	16644.	121.728	3342.	22646.
2.467	66.824	1225.	16644.	121.728	3341.	22646.
3.000	66.824	1225.	16644.	121.728	3341.	22646.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	66.824	3100.	16644.	121.728	5430.	22646.

GIRDER: S5

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	A (in ²)	Ixx (in4)	Izz (in4)
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	63.	9612.
1.800	46.554	63.	9612.
1.800	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	101.	9612.
2.200	46.554	101.	9612.
2.200	46.554	63.	9612.
2.250	46.554	63.	9612.
2.250	42.132	54.	8541.
2.251	42.132	54.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

GIRDER: S5

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in4)	Izz (in4)	A (in ²)	Ixx (in4)	Izz (in4)
0.000	74.006	3666.	19112.	128.910	6013.	26185.
0.769	74.006	3666.	19112.	128.910	6013.	26185.
0.769	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	74.006	1270.	19112.	128.910	3402.	26185.
1.745	74.006	1270.	19112.	128.910	3402.	26185.
1.745	52.106	1270.	12243.	52.106	3402.	12243.
1.800	52.106	1270.	12243.	52.106	3402.	12243.
1.800	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1394.	12243.	52.106	3569.	12243.

□

----- SECTION PROPERTIES -----

GIRDER: S5 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in4)	Izz (in4)	A (in ²)	Ixx (in4)	Izz (in4)
2.000	52.106	1392.	12243.	52.106	3567.	12243.
2.200	52.106	1392.	12243.	52.106	3567.	12243.
2.200	52.106	1271.	12243.	52.106	3403.	12243.
2.250	52.106	1271.	12243.	52.106	3403.	12243.
2.250	47.684	1228.	10892.	47.684	3344.	10892.
2.251	47.684	1228.	10892.	47.684	3344.	10892.
2.251	44.924	1226.	10301.	44.924	3341.	10301.
2.260	44.924	1226.	10301.	44.924	3341.	10301.
2.260	66.824	1226.	16644.	121.728	3341.	22646.
2.467	66.824	1226.	16644.	121.728	3341.	22646.
2.467	66.824	1225.	16644.	121.728	3341.	22646.
3.000	66.824	1225.	16644.	121.728	3341.	22646.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	66.824	3100.	16644.	121.728	5430.	22646.

GIRDER: S6

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	A (in ²)	Ixx (in4)	Izz (in4)
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	63.	9612.
1.800	46.554	63.	9612.
1.800	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	102.	9612.
2.200	46.554	102.	9612.
2.200	46.554	63.	9612.
2.250	46.554	63.	9612.
2.250	42.132	53.	8541.
2.251	42.132	53.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

GIRDER: S6

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in4)	Izz (in4)	A (in ²)	Ixx (in4)	Izz (in4)
0.000	69.592	3464.	18082.	115.668	5449.	25065.
0.769	69.592	3464.	18082.	115.668	5449.	25065.
0.769	51.236	3469.	11868.	51.236	5463.	11868.
1.000	51.236	3469.	11868.	51.236	5463.	11868.
1.000	51.242	3470.	11871.	51.242	5467.	11871.
1.000	51.242	3470.	11871.	51.242	5467.	11871.
1.000	51.243	1100.	11871.	51.243	2911.	11871.

□

----- SECTION PROPERTIES -----

GIRDER: S6 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
1.000	51.243	1100.	11871.	51.243	2911.	11871.
1.000	69.740	1100.	18118.	116.111	2911.	25106.
1.004	69.740	1100.	18118.	116.111	2911.	25106.
1.004	69.769	1101.	18125.	116.200	2914.	25115.
1.050	69.769	1101.	18125.	116.200	2914.	25115.
1.050	70.188	1118.	18228.	117.456	2963.	25230.
1.050	70.188	1118.	18228.	117.456	2963.	25230.
1.050	70.191	1118.	18229.	117.464	2963.	25231.
1.100	70.191	1118.	18229.	117.464	2963.	25231.
1.100	70.618	1135.	18332.	118.747	3012.	25346.
1.100	70.618	1135.	18332.	118.747	3012.	25346.
1.100	70.621	1135.	18333.	118.755	3013.	25347.
1.133	70.621	1135.	18333.	118.755	3013.	25347.
1.133	70.891	1146.	18398.	119.564	3044.	25418.
1.150	70.891	1146.	18398.	119.564	3044.	25418.
1.150	71.026	1151.	18430.	119.969	3059.	25454.
1.150	71.026	1151.	18430.	119.969	3059.	25454.
1.150	71.028	1151.	18431.	119.976	3060.	25455.
1.200	71.028	1151.	18431.	119.976	3060.	25455.
1.200	71.410	1167.	18521.	121.121	3104.	25554.
1.200	71.410	1167.	18521.	121.121	3104.	25554.
1.200	71.412	1167.	18522.	121.127	3104.	25554.
1.250	71.412	1167.	18522.	121.127	3104.	25554.
1.250	71.770	1181.	18606.	122.202	3145.	25646.
1.250	71.770	1181.	18606.	122.202	3145.	25646.
1.250	71.772	1181.	18606.	122.209	3145.	25646.
1.267	71.772	1181.	18606.	122.209	3145.	25646.
1.267	71.884	1186.	18632.	122.544	3158.	25675.
1.300	71.884	1186.	18632.	122.544	3158.	25675.
1.300	72.107	1195.	18684.	123.214	3184.	25731.
1.300	72.107	1195.	18684.	123.214	3184.	25731.
1.300	72.109	1195.	18684.	123.220	3184.	25731.
1.350	72.109	1195.	18684.	123.220	3184.	25731.
1.350	72.421	1207.	18756.	124.156	3220.	25809.
1.350	72.421	1207.	18756.	124.156	3220.	25809.
1.350	72.423	1207.	18757.	124.162	3220.	25809.
1.376	72.423	1207.	18757.	124.162	3220.	25809.
1.376	72.575	1213.	18791.	124.617	3238.	25846.
1.400	72.575	1213.	18791.	124.617	3238.	25846.
1.400	72.712	1219.	18823.	125.029	3254.	25880.
1.400	72.712	1219.	18823.	125.029	3254.	25880.
1.400	72.714	1219.	18823.	125.034	3254.	25880.
1.450	72.714	1219.	18823.	125.034	3254.	25880.
1.450	72.980	1229.	18883.	125.831	3284.	25944.
1.450	72.980	1229.	18883.	125.831	3284.	25944.
1.450	72.981	1230.	18884.	125.836	3285.	25945.
1.500	72.981	1230.	18884.	125.836	3285.	25945.
1.500	73.224	1239.	18938.	126.564	3312.	26003.
1.500	73.224	1239.	18938.	126.564	3312.	26003.
1.500	73.225	1239.	18939.	126.568	3313.	26003.
1.533	73.225	1239.	18939.	126.568	3313.	26003.
1.533	73.372	1245.	18972.	127.007	3329.	26038.
1.550	73.372	1245.	18972.	127.007	3329.	26038.
1.550	73.445	1248.	18988.	127.227	3338.	26055.
1.550	73.445	1248.	18988.	127.227	3338.	26055.
1.550	73.446	1248.	18988.	127.231	3338.	26055.
1.600	73.446	1248.	18988.	127.231	3338.	26055.
1.600	73.643	1256.	19032.	127.820	3361.	26101.
1.600	73.643	1256.	19032.	127.820	3361.	26101.
1.600	73.644	1256.	19032.	127.824	3361.	26101.
1.650	73.644	1256.	19032.	127.824	3361.	26101.
1.650	73.817	1263.	19071.	128.344	3381.	26142.
1.650	73.817	1263.	19071.	128.344	3381.	26142.

----- SECTION PROPERTIES -----

GIRDER: S6 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
1.650	73.818	1263.	19071.	128.347	3381.	26142.
1.667	73.818	1263.	19071.	128.347	3381.	26142.
1.667	73.868	1265.	19082.	128.497	3387.	26153.
1.700	73.868	1265.	19082.	128.497	3387.	26153.
1.700	73.968	1269.	19104.	128.797	3398.	26176.
1.700	73.968	1269.	19104.	128.797	3398.	26176.
1.700	73.969	1269.	19104.	128.800	3398.	26177.
1.746	73.969	1269.	19104.	128.800	3398.	26177.
1.746	74.085	1274.	19130.	129.147	3411.	26203.
1.746	74.085	1274.	19130.	129.147	3411.	26203.
1.746	52.122	1274.	12250.	52.122	3411.	12250.
1.750	52.122	1274.	12250.	52.122	3411.	12250.
1.750	52.124	1274.	12251.	52.124	3413.	12251.
1.800	52.124	1274.	12251.	52.124	3413.	12251.
1.800	52.146	1278.	12260.	52.146	3425.	12260.
1.800	52.146	1278.	12260.	52.146	3425.	12260.
1.800	52.146	1401.	12260.	52.146	3591.	12260.
1.850	52.146	1401.	12260.	52.146	3591.	12260.
1.850	52.162	1405.	12267.	52.162	3600.	12267.
1.900	52.162	1405.	12267.	52.162	3600.	12267.
1.900	52.174	1407.	12272.	52.174	3607.	12272.
1.950	52.174	1407.	12272.	52.174	3607.	12272.
1.950	52.181	1408.	12275.	52.181	3611.	12275.
1.996	52.181	1408.	12275.	52.181	3611.	12275.
1.996	52.183	1409.	12275.	52.183	3612.	12275.
2.000	52.183	1409.	12275.	52.183	3612.	12275.
2.000	52.183	1409.	12276.	52.183	3613.	12276.
2.000	52.183	1409.	12276.	52.183	3613.	12276.
2.004	52.183	1409.	12275.	52.183	3612.	12275.
2.050	52.183	1409.	12275.	52.183	3612.	12275.
2.050	52.181	1408.	12275.	52.181	3611.	12275.
2.100	52.181	1408.	12275.	52.181	3611.	12275.
2.100	52.174	1407.	12272.	52.174	3607.	12272.
2.150	52.174	1407.	12272.	52.174	3607.	12272.
2.150	52.162	1405.	12267.	52.162	3600.	12267.
2.200	52.162	1405.	12267.	52.162	3600.	12267.
2.200	52.146	1401.	12260.	52.146	3591.	12260.
2.200	52.146	1401.	12260.	52.146	3591.	12260.
2.200	52.146	1278.	12260.	52.146	3425.	12260.
2.250	52.146	1278.	12260.	52.146	3425.	12260.
2.250	52.124	1274.	12251.	52.124	3413.	12251.
2.250	52.124	1274.	12251.	52.124	3413.	12251.
2.250	47.702	1231.	10899.	47.702	3353.	10899.
2.251	47.702	1231.	10899.	47.702	3353.	10899.
2.251	44.942	1229.	10308.	44.942	3351.	10308.
2.258	44.942	1229.	10308.	44.942	3351.	10308.
2.258	44.938	1228.	10307.	44.938	3348.	10307.
2.258	44.938	1228.	10307.	44.938	3348.	10307.
2.258	66.893	1228.	16658.	121.935	3348.	22658.
2.300	66.893	1228.	16658.	121.935	3348.	22658.
2.300	66.787	1224.	16637.	121.618	3336.	22639.
2.300	66.787	1224.	16637.	121.618	3336.	22639.
2.300	66.786	1224.	16637.	121.615	3336.	22638.
2.333	66.786	1224.	16637.	121.615	3336.	22638.
2.333	66.686	1220.	16618.	121.315	3325.	22620.
2.350	66.686	1220.	16618.	121.315	3325.	22620.
2.350	66.636	1218.	16608.	121.165	3319.	22610.
2.350	66.636	1218.	16608.	121.165	3319.	22610.
2.350	66.635	1218.	16608.	121.162	3319.	22610.
2.400	66.635	1218.	16608.	121.162	3319.	22610.
2.400	66.462	1211.	16574.	120.642	3299.	22577.

----- SECTION PROPERTIES -----

GIRDER: S6 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
2.400	66.462	1211.	16574.	120.642	3299.	22577.
2.400	66.461	1211.	16574.	120.638	3299.	22577.
2.450	66.461	1211.	16574.	120.638	3299.	22577.
2.450	66.264	1203.	16535.	120.049	3277.	22539.
2.450	66.264	1203.	16535.	120.049	3277.	22539.
2.450	66.263	1203.	16535.	120.045	3277.	22539.
2.467	66.263	1203.	16535.	120.045	3277.	22539.
2.467	66.190	1200.	16520.	119.825	3268.	22524.
2.500	66.190	1200.	16520.	119.825	3268.	22524.
2.500	66.043	1195.	16491.	119.386	3251.	22496.
2.500	66.043	1195.	16491.	119.386	3251.	22496.
2.500	66.042	1194.	16491.	119.382	3251.	22496.
2.550	66.042	1194.	16491.	119.382	3251.	22496.
2.550	65.799	1185.	16442.	118.654	3224.	22448.
2.550	65.799	1185.	16442.	118.654	3224.	22448.
2.550	65.798	1185.	16442.	118.649	3223.	22448.
2.600	65.798	1185.	16442.	118.649	3223.	22448.
2.600	65.532	1174.	16389.	117.852	3193.	22395.
2.600	65.532	1174.	16389.	117.852	3193.	22395.
2.600	65.530	1174.	16388.	117.847	3193.	22395.
2.626	65.530	1174.	16388.	117.847	3193.	22395.
2.626	65.381	1168.	16358.	117.400	3176.	22365.
2.650	65.381	1168.	16358.	117.400	3176.	22365.
2.650	65.241	1163.	16330.	116.980	3160.	22337.
2.650	65.241	1163.	16330.	116.980	3160.	22337.
2.650	65.239	1163.	16330.	116.974	3160.	22336.
2.700	65.239	1163.	16330.	116.974	3160.	22336.
2.700	64.927	1150.	16266.	116.038	3124.	22273.
2.700	64.927	1150.	16266.	116.038	3124.	22273.
2.700	64.925	1150.	16265.	116.032	3124.	22272.
2.733	64.925	1150.	16265.	116.032	3124.	22272.
2.733	64.702	1142.	16219.	115.362	3098.	22226.
2.750	64.702	1142.	16219.	115.362	3098.	22226.
2.750	64.590	1137.	16196.	115.027	3085.	22203.
2.750	64.590	1137.	16196.	115.027	3085.	22203.
2.750	64.588	1137.	16196.	115.020	3085.	22203.
2.800	64.588	1137.	16196.	115.020	3085.	22203.
2.800	64.230	1123.	16121.	113.945	3044.	22127.
2.800	64.230	1123.	16121.	113.945	3044.	22127.
2.800	64.228	1123.	16121.	113.939	3044.	22127.
2.850	64.228	1123.	16121.	113.939	3044.	22127.
2.850	63.846	1108.	16040.	112.794	3000.	22045.
2.850	63.846	1108.	16040.	112.794	3000.	22045.
2.850	63.844	1108.	16040.	112.787	3000.	22045.
2.867	63.844	1108.	16040.	112.787	3000.	22045.
2.867	63.709	1102.	16011.	112.382	2984.	22015.
2.900	63.709	1102.	16011.	112.382	2984.	22015.
2.900	63.439	1092.	15953.	111.573	2954.	21956.
2.900	63.439	1092.	15953.	111.573	2954.	21956.
2.900	63.436	1091.	15953.	111.565	2953.	21956.
2.950	63.436	1091.	15953.	111.565	2953.	21956.
2.950	63.009	1074.	15860.	110.282	2904.	21860.
2.950	63.009	1074.	15860.	110.282	2904.	21860.
2.950	63.006	1074.	15860.	110.274	2904.	21860.
2.996	63.006	1074.	15860.	110.274	2904.	21860.
2.996	62.587	1058.	15768.	109.018	2856.	21764.
3.000	62.587	1058.	15768.	109.018	2856.	21764.
3.000	62.558	1057.	15761.	108.929	2853.	21758.
3.000	62.558	1057.	15761.	108.929	2853.	21758.
3.000	44.061	1057.	9941.	44.061	2853.	9941.
3.000	44.061	1057.	9941.	44.061	2853.	9941.
3.000	44.061	1056.	9941.	44.061	2852.	9941.
3.000	44.061	1056.	9941.	44.061	2852.	9941.

----- SECTION PROPERTIES -----

GIRDER: S6 (Continued)
 COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	3n-COMPOSITE			1n-COMPOSITE		
	A	Ixx	Izz	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in ²)	(in ⁴)	(in ⁴)
3.000	44.060	2909.	9941.	44.060	4889.	9941.
3.231	44.060	2909.	9941.	44.060	4889.	9941.
3.231	44.054	2908.	9938.	44.054	4885.	9938.
4.000	44.054	2908.	9938.	44.054	4885.	9938.
4.000	62.410	2903.	15729.	108.486	4871.	21723.

----- UNFACTORED MOMENT SUMMARY -----

GIRDER: 1 * * * UNFACTORED MOMENT SUMMARY (Based on Input Section) * * *
 LL TEMPLATE NUMBER: 1 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED MIN COMBINED is the larger of: (1.33*TRK+LANE) and 0.9*(1.33*DTRK+LANE).
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC MOMENT	B-DC MOMENT	DW MOMENT	MAX	MIN	MAX	MIN	MIN	MAX	MIN	MAX	MIN
FRAC	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)
0.000	0	0	0	2	-1	1	-1	0	4	-2		
0.769	0	0	0	3	-8	1	-1	-8	6	-12		
1.000	-1	0	0	3	-12	1	-1	-12	6	-17		
1.000	-1	0	0	4	-12	2	-1	-12	6	-17	NOTE: FORCE CHECK BASED ON AISC MOMENTS & SHEARS TABLE 2.0 FROM 1966 EDITION.	
1.000	0	0	0	4	-12	2	-1	-11	7	-16		
1.050	80	10	24	89	-12	31	-4	0	150	-20		
1.100	149	19	45	167	-18	57	-8	0	279	-33		
1.133	189	24	57	211	-24	73	-11	0	353	-43	A:(0.0703)(0.979) (70^2)=337 FT-K	
1.150	207	26	63	231	-28	81	-12	0	388	-49		
1.200	252	32	77	282	-37	100	-16	0	476	-65	B:(0.0703)(0.115) (70^2)=40 FT-K	
1.250	286	36	88	320	-46	117	-20	0	542	-81		
1.267	295	37	90	329	-49	121	-22	0	558	-86	C:(0.0703)(0.283) (70^2)=98 FT-K	
1.300	308	39	95	343	-55	128	-24	0	585	-97		
1.350	317	41	99	361	-63	136	-28	0	617	-113		
1.366	317	41	100	364	-66	138	-29	0	623	-118		
1.400	315	A	B	C	368	-72	142	-32	0	632	-128	
1.450	302	40	98	365	-81	143	-36	0	629	-143		
1.500	278	38	92	365	-89	142	-40	0	627	-159		
1.533	257	36	86	358	-95	139	-42	0	615	-169		
1.550	243	34	83	353	-98	136	-43	0	606	-173		
1.600	195	29	71	329	-106	126	-47	0	565	-187		
1.650	136	23	55	297	-113	113	-50	0	509	-201		
1.667	113	20	49	285	-116	108	-51	0	487	-206		
1.700	67	15	36	261	-121	97	-54	0	444	-214		
1.742	0	7	18	223	-128	81	-56	-130	379	-227		
1.750	-13	6	14	217	-129	78	-57	-131	367	-229		
1.800	-104	-5	-12	167	-137	56	-60	-137	278	-242		
1.801	-106	-5	-12	166	-137	56	-60	-138	276	-242		
1.850	-206	-17	-41	108	-143	31	-63	-143	175	-252		
1.900	-319	-30	-74	58	-148	11	-74	-177	89	-279		
1.900	-320	-31	-74	58	-148	10	-74	-177	87	-279		
1.950	-442	-45	-110	23	-158	5	-103	-236	36	-374		
2.000	-575	A	B	C	10	-169	7	-140	-303	21	-488	
2.000	-575	-61	-149	9	-170	7	-140	-303	20	-489	A:(-0.125)(0.979) (70^2)=-600 FT-K	
2.050	-443	-45	-110	22	-145	5	-103	-234	34	-373		
2.100	-321	-30	-74	55	-135	9	-73	-176	82	-277	B:(-0.125)(0.115) (70^2)=-70 FT-K	
2.101	-319	-30	-73	55	-134	10	-73	-175	83	-275		
2.150	-210	-17	-41	98	-129	27	-58	-134	157	-229	C:(-0.125)(0.283) (70^2)=173 FT-K	
2.200	-109	-5	-12	156	-123	51	-55	-123	259	-218		
2.202	-106	-5	-11	157	-122	52	-54	-123	262	-217		
2.250	-20	6	14	206	-117	74	-52	-118	348	-207		
2.250	-20	6	14	205	-116	74	-52	-118	347	-207	Difference in DL moments is due to BDGS Grid Analysis	
2.251	-18	6	14	206	-116	74	-52	-117	349	-206		

----- UNFACTORED MOMENT SUMMARY -----

GIRDER: 1 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 1 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued) MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC MOMENT (ft-k)	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
2.262	0	8	19	216	-115	79	-51	-116	367	-204		
2.300	58	15	36	250	-110	93	-49	0	425	-196		
2.334	106	20	49	275	-106	105	-47	0	471	-187		
2.350	127	23	55	287	-103	110	-46	0	491	-184		
2.400	185	29	70	319	-96	123	-43	0	548	-171		
2.450	233	34	83	343	-89	134	-40	0	590	-159		
2.467	246	35	86	349	-87	136	-38	0	600	-154		
2.500	268	38	92	356	-82	139	-36	0	612	-145		
2.550	291	40	97	357	-74	141	-33	0	616	-131		
2.600	304	41	100	361	-66	140	-29	0	620	-117		
2.636	307	41	100	357	-60	137	-27	0	612	-107		
2.650	307	41	99	355	-58	135	-26	0	607	-103		
2.700	298	39	95	338	-50	127	-22	0	577	-89		
2.733	287	37	90	324	-45	119	-20	0	551	-79		
2.750	278	36	87	316	-42	115	-19	0	535	-74		
2.800	245	32	77	280	-34	99	-15	0	470	-60		
2.850	201	26	63	230	-25	79	-11	0	385	-45		
2.867	183	24	57	210	-22	72	-10	0	351	-40		
2.900	145	19	45	166	-17	57	-8	0	278	-30		
2.950	78	10	24	89	-9	30	-4	0	149	-15		
3.000	0	0	0	3	-4	1	0	-4	4	-6		
3.000	0	0	0	2	-4	1	-1	-4	4	-6		
3.000	-1	0	0	0	-3	0	0	-3	0	-5		
3.231	0	0	0	0	0	0	0	0	0	0		
4.000	0	0	0	0	0	0	0	0	0	0		

GIRDER: 1 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 2 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC MOMENT (ft-k)	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
0.000	0	0	0	2	-1	1	-1	0	4	-2		
0.769	0	0	0	3	-8	1	-1	-8	6	-12		
1.000	-1	0	0	3	-12	1	-1	-12	6	-17		
1.000	-1	0	0	4	-12	2	-1	-12	6	-17		
1.000	0	0	0	4	-12	2	-1	-11	7	-16		
1.050	80	10	24	89	-12	31	-4	0	150	-20		
1.100	149	19	45	167	-18	57	-8	0	279	-33		
1.133	189	24	57	211	-24	73	-11	0	353	-43		
1.150	207	26	63	231	-28	81	-12	0	388	-49		
1.200	252	32	77	282	-37	100	-16	0	476	-65		
1.250	286	36	88	320	-46	117	-20	0	542	-81		
1.267	295	37	90	329	-49	121	-22	0	558	-86		
1.300	308	39	95	343	-55	128	-24	0	585	-97		
1.350	317	41	99	361	-63	136	-28	0	617	-113		
1.366	317	41	100	364	-66	138	-29	0	623	-118		
1.400	315	41	100	368	-72	142	-32	0	632	-128		
1.450	302	40	98	365	-81	143	-36	0	629	-143		
1.500	278	38	92	365	-89	142	-40	0	627	-159		
1.533	257	36	86	358	-95	139	-42	0	615	-169		
1.550	243	34	83	353	-98	136	-43	0	606	-173		
1.600	195	29	71	329	-106	126	-47	0	565	-187		
1.650	136	23	55	297	-113	113	-50	0	509	-201		

----- UNFACTORED MOMENT SUMMARY -----

GIRDER: 1 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 2 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued) MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC MOMENT (ft-k)	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
1.667	113	20	49	285	-116	108	-51	0	487	-206		
1.700	67	15	36	261	-121	97	-54	0	444	-214		
1.742	0	7	18	223	-128	81	-56	-130	379	-227		
1.750	-13	6	14	217	-129	78	-57	-131	367	-229		
1.800	-104	-5	-12	167	-137	56	-60	-137	278	-242		
1.801	-106	-5	-12	166	-137	56	-60	-138	276	-242		
1.850	-206	-17	-41	108	-143	31	-63	-143	175	-252		
1.900	-319	-30	-74	58	-148	11	-74	-177	89	-279		
1.900	-320	-31	-74	58	-148	10	-74	-177	87	-279		
1.950	-442	-45	-110	23	-158	5	-103	-236	36	-374		
2.000	-575	-61	-149	10	-169	7	-140	-303	21	-488		
2.000	-575	-61	-149	9	-170	7	-140	-303	20	-489		
2.050	-443	-45	-110	22	-145	5	-103	-234	34	-373		
2.100	-321	-30	-74	55	-135	9	-73	-176	82	-277		
2.101	-319	-30	-73	55	-134	10	-73	-175	83	-275		
2.150	-210	-17	-41	98	-129	27	-58	-134	157	-229		
2.200	-109	-5	-12	156	-123	51	-55	-123	259	-218		
2.202	-106	-5	-11	157	-122	52	-54	-123	262	-217		
2.250	-20	6	14	206	-117	74	-52	-118	348	-207		
2.250	-20	6	14	205	-116	74	-52	-118	347	-207		
2.251	-18	6	14	206	-116	74	-52	-117	349	-206		
2.262	0	8	19	216	-115	79	-51	-116	367	-204		
2.300	58	15	36	250	-110	93	-49	0	425	-196		
2.334	106	20	49	275	-106	105	-47	0	471	-187		
2.350	127	23	55	287	-103	110	-46	0	491	-184		
2.400	185	29	70	319	-96	123	-43	0	548	-171		
2.450	233	34	83	343	-89	134	-40	0	590	-159		
2.467	246	35	86	349	-87	136	-38	0	600	-154		
2.500	268	38	92	356	-82	139	-36	0	612	-145		
2.550	291	40	97	357	-74	141	-33	0	616	-131		
2.600	304	41	100	361	-66	140	-29	0	620	-117		
2.636	307	41	100	357	-60	137	-27	0	612	-107		
2.650	307	41	99	355	-58	135	-26	0	607	-103		
2.700	298	39	95	338	-50	127	-22	0	577	-89		
2.733	287	37	90	324	-45	119	-20	0	551	-79		
2.750	278	36	87	316	-42	115	-19	0	535	-74		
2.800	245	32	77	280	-34	99	-15	0	470	-60		
2.850	201	26	63	230	-25	79	-11	0	385	-45		
2.867	183	24	57	210	-22	72	-10	0	351	-40		
2.900	145	19	45	166	-17	57	-8	0	278	-30		
2.950	78	10	24	89	-9	30	-4	0	149	-15		
3.000	0	0	0	3	-4	1	0	-4	4	-6		
3.000	0	0	0	2	-4	1	-1	-4	4	-6		
3.000	-1	0	0	0	-3	0	0	-3	0	-5		
3.231	0	0	0	0	0	0	0	0	0	0		
4.000	0	0	0	0	0	0	0	0	0	0		

GIRDER: 1 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 3 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).
 LANE POSITION: ONE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC MOMENT (ft-k)	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
0.000	0	0	0								1	-1

----- UNFACTORED MOMENT SUMMARY -----

GIRDER: 1 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 3 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued) MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).
 LANE POSITION: ONE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC MOMENT (ft-k)	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
0.769	0	0	0								1	-7
1.000	-1	0	0								2	-10
1.000	-1	0	0								2	-10
1.000	0	0	0								2	-10
1.050	80	10	24								61	-8
1.100	149	19	45								112	-10
1.133	189	24	57								140	-13
1.150	207	26	63								153	-15
1.200	252	32	77								184	-20
1.250	286	36	88								209	-24
1.267	295	37	90								216	-26
1.300	308	39	95								227	-29
1.350	317	41	99								236	-34
1.366	317	41	100								236	-36
1.400	315	41	100								236	-40
1.450	302	40	98								230	-45
1.500	278	38	92								222	-50
1.533	257	36	86								225	-54
1.550	243	34	83								224	-56
1.600	195	29	71								215	-61
1.650	136	23	55								197	-67
1.667	113	20	49								189	-69
1.700	67	15	36								173	-73
1.742	0	7	18								146	-78
1.750	-13	6	14								142	-79
1.800	-104	-5	-12								107	-86
1.801	-106	-5	-12								106	-86
1.850	-206	-17	-41								67	-92
1.900	-319	-30	-74								38	-99
1.900	-320	-31	-74								38	-99
1.950	-442	-45	-110								17	-106
2.000	-575	-61	-149								6	-121
2.000	-575	-61	-149								6	-121
2.050	-443	-45	-110								16	-99
2.100	-321	-30	-74								35	-91
2.101	-319	-30	-73								36	-90
2.150	-210	-17	-41								63	-85
2.200	-109	-5	-12								99	-78
2.202	-106	-5	-11								100	-78
2.250	-20	6	14								134	-72
2.250	-20	6	14								133	-72
2.251	-18	6	14								134	-72
2.262	0	8	19								142	-71
2.300	58	15	36								165	-67
2.334	106	20	49								183	-63
2.350	127	23	55								190	-61
2.400	185	29	70								208	-56
2.450	233	34	83								218	-51
2.467	246	35	86								219	-49
2.500	268	38	92								217	-46
2.550	291	40	97								225	-41
2.600	304	41	100								231	-36
2.636	307	41	100								232	-32
2.650	307	41	99								231	-31
2.700	298	39	95								224	-27
2.733	287	37	90								213	-24
2.750	278	36	87								206	-22

**USED IN FATIGUE CHECK:
276 FT-K**

□

----- UNFACTORED MOMENT SUMMARY -----

GIRDER: 1 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *

LL TEMPLATE NUMBER: 3 Note: Impact NOT Included, except for COMBINED.

LIVE LOAD: HL-93-ED (Continued) MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).

LANE POSITION: ONE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC MOMENT (ft-k)	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
2.800	245	32	77								181	-18
2.850	201	26	63								151	-13
2.867	183	24	57								139	-12
2.900	145	19	45								111	-9
2.950	78	10	24								61	-5
3.000	0	0	0								1	-3
3.000	0	0	0								1	-3
3.000	-1	0	0								0	-3
3.231	0	0	0								0	0
4.000	0	0	0								0	0

----- UNFACTORED SHEAR SUMMARY -----

GIRDER: 1 * * * UNFACTORED SHEAR SUMMARY (Based on Input Section) * * *

LL TEMPLATE NUMBER: 1 Note: Impact NOT Included, except for COMBINED.

LIVE LOAD: HL-93-ED

LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
0.000	0.0	0.0	0.0	1.3	-0.6	0.5	-0.3	2.3	-1.1		
0.769	-0.8	-0.1	-0.3	1.3	-14.1	0.5	-0.5	2.3	-19.2		
1.000	-1.1	-0.1	-0.3	1.3	-14.1	0.5	-0.5	2.3	-19.3		
1.000	24.8	3.1	7.5	27.2	-2.7	9.4	-1.2	45.6	-4.9		
1.000	24.8	3.1	7.5	27.1	-2.7	9.4	-1.2	45.4	-4.9		
1.050	21.4	2.7	6.5	25.8	-2.7	8.5	-1.3	42.8	-4.9		
1.100	18.0	2.3	5.5	23.9	-2.7	7.5	-1.3	39.4	-4.9		
1.133	15.8	2.0	4.9	22.5	-2.7	6.9	-1.4	36.8	-4.9		
1.150	14.7	1.9	4.5	22.0	-2.7	6.6	-1.4	35.9	-5.0		
1.200	11.4	1.5	3.6	19.9	-3.3	5.8	-1.6	32.4	-6.0		
1.250	8.2	1.1	2.6	17.9	-4.2	5.1	-1.8	28.9	-7.4		
1.267	7.1	1.0	2.4	16.9	-5.2	4.7	-1.8	27.1	-8.8		
1.300	4.2	0.7	1.7	15.1	-6.2	4.0	-2.0	24.0	-10.2		
1.350	1.0	0.3	0.8	13.3	-7.5	3.3	-2.4	21.0	-12.4		
1.366	0.0	0.2	0.4	12.4	-7.9	3.0	-2.5	19.5	-12.9		
1.400	-2.1	-0.1	-0.2	11.6	-9.0	2.7	-2.8	18.1	-14.8		
1.450	-5.2	-0.5	-1.2	10.0	-10.6	2.2	-3.3	15.5	-17.4		
1.500	-8.3	-0.9	-2.2	8.4	-12.2	1.8	-3.8	12.9	-20.0		
1.533	-11.2	-1.1	-2.8	7.2	-13.8	1.4	-4.4	11.0	-22.7		
1.550	-12.3	-1.3	-3.0	6.0	-14.7	1.2	-4.7	9.1	-24.2		
1.600	-15.3	-1.6	-4.0	4.6	-16.2	1.0	-5.4	7.1	-26.9		
1.650	-18.3	-2.0	-5.0	3.5	-17.6	0.8	-6.1	5.4	-29.5		
1.667	-19.4	-2.2	-5.3	2.8	-17.9	0.7	-6.2	4.5	-30.1		
1.700	-21.3	-2.4	-5.9	2.5	-19.0	0.7	-6.8	4.0	-32.1		
1.742	-23.8	-2.8	-6.7	1.8	-19.6	0.6	-7.3	3.0	-33.3		
1.750	-24.3	-2.8	-6.9	1.8	-20.2	0.6	-7.5	3.0	-34.5		
1.800	-27.3	-3.2	-7.9	1.2	-21.4	0.5	-8.3	2.1	-36.8		
1.801	-27.8	-3.2	-7.9	1.3	-22.3	0.7	-8.7	2.4	-38.4		
1.850	-30.7	-3.6	-8.8	1.7	-23.3	0.8	-9.5	3.1	-40.5		
1.900	-33.7	-4.0	-9.8	2.3	-24.1	1.0	-10.3	4.1	-42.3		
1.900	-33.7	-4.0	-9.8	2.3	-24.1	1.0	-10.3	4.1	-42.3		
1.950	-36.6	-4.4	-10.8	2.9	-24.4	1.3	-11.0	5.1	-43.5		
2.000	-39.6	-4.8	-11.8	2.9	-24.4	1.3	-11.7	5.1	-44.2		
2.000	39.2	4.8	11.8	24.5	-2.9	11.7	-1.3	44.2	-5.2		

**CHECK SHEARS PER AISC
TABLES: (0.625)WL**

**A:(0.625)(0.979)(70)= 43 K
 B:(0.625)(0.115)(70)= 5 K
 C:(0.625)(0.283)(70)= 12 K**

----- UNFACTORED SHEAR SUMMARY -----

GIRDER: 1 * * * UNFACTORED SHEAR SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 1 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued)
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
2.050	36.2	4.4	10.8	24.5	-2.9	11.0	-1.3	43.6	-5.2		
2.100	33.3	4.0	9.8	24.2	-2.4	10.2	-1.1	42.4	-4.2		
2.101	33.2	4.0	9.8	23.8	-1.8	10.0	-0.9	41.7	-3.2		
2.150	30.3	3.6	8.8	23.5	-1.8	9.4	-0.9	40.7	-3.2		
2.200	27.4	3.2	7.8	22.5	-1.3	8.6	-0.7	38.5	-2.5		
2.202	27.2	3.2	7.8	21.9	-1.3	8.4	-0.6	37.5	-2.3		
2.250	23.9	2.8	6.9	20.4	-1.4	7.5	-0.6	34.6	-2.4		
2.250	23.9	2.8	6.9	19.9	-1.9	7.3	-0.5	33.8	-3.0		
2.251	23.8	2.8	6.9	19.9	-1.9	7.3	-0.5	33.7	-3.0		
2.262	23.2	2.7	6.6	19.7	-1.9	7.2	-0.6	33.4	-3.1		
2.300	21.0	2.4	5.9	19.2	-2.5	6.8	-0.7	32.3	-4.0		
2.334	19.0	2.2	5.2	18.1	-2.7	6.2	-0.7	30.3	-4.3		
2.350	18.1	2.0	4.9	17.8	-3.4	6.0	-0.8	29.7	-5.3		
2.400	15.1	1.6	4.0	16.4	-4.5	5.3	-0.9	27.1	-6.9		
2.450	12.2	1.3	3.0	14.9	-5.8	4.7	-1.2	24.4	-8.9		
2.467	11.2	1.1	2.8	14.0	-7.1	4.3	-1.4	22.9	-10.8		
2.500	8.2	0.9	2.2	12.4	-8.3	3.8	-1.7	20.2	-12.7		
2.550	5.2	0.5	1.2	10.8	-9.8	3.2	-2.2	17.6	-15.2		
2.600	2.2	0.1	0.2	9.2	-11.4	2.7	-2.7	15.0	-17.8		
2.636	0.0	-0.2	-0.5	8.0	-12.2	2.4	-3.0	13.1	-19.2		
2.650	-0.9	-0.3	-0.7	7.7	-13.0	2.3	-3.2	12.6	-20.6		
2.700	-4.0	-0.7	-1.7	6.2	-14.8	1.9	-3.9	10.2	-23.6		
2.733	-6.8	-1.0	-2.3	4.9	-16.7	1.7	-4.6	8.3	-26.7		
2.750	-7.9	-1.1	-2.6	3.9	-17.7	1.7	-4.9	6.8	-28.5		
2.800	-11.0	-1.5	-3.6	2.7	-19.7	1.5	-5.7	5.0	-31.9		
2.850	-14.2	-1.9	-4.5	2.4	-21.8	1.3	-6.5	4.6	-35.5		
2.867	-15.3	-2.0	-4.8	2.4	-22.3	1.3	-6.8	4.5	-36.4		
2.900	-17.5	-2.3	-5.5	2.4	-23.8	1.2	-7.4	4.5	-39.1		
2.950	-20.8	-2.7	-6.5	2.5	-25.7	1.2	-8.4	4.6	-42.6		
3.000	-24.1	-3.1	-7.5	2.5	-27.0	1.1	-9.3	4.5	-45.2		
3.000	-24.1	-3.1	-7.5	2.5	-27.0	1.1	-9.3	4.5	-45.2		
3.000	1.0	0.1	0.3	13.7	0.0	0.1	0.0	18.3	0.0		
3.231	0.8	0.1	0.2	13.7	0.0	0.0	0.0	18.2	0.0		
4.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

GIRDER: 1 * * * UNFACTORED SHEAR SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 2 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
0.000	0.0	0.0	0.0	1.3	-0.6	0.5	-0.3	2.3	-1.1		
0.769	-0.8	-0.1	-0.3	1.3	-14.1	0.5	-0.5	2.3	-19.2		
1.000	-1.1	-0.1	-0.3	1.3	-14.1	0.5	-0.5	2.3	-19.3		
1.000	24.8	3.1	7.5	27.2	-2.7	9.4	-1.2	45.6	-4.9		
1.000	24.8	3.1	7.5	27.1	-2.7	9.4	-1.2	45.4	-4.9		
1.050	21.4	2.7	6.5	25.8	-2.7	8.5	-1.3	42.8	-4.9		
1.100	18.0	2.3	5.5	23.9	-2.7	7.5	-1.3	39.4	-4.9		
1.133	15.8	2.0	4.9	22.5	-2.7	6.9	-1.4	36.8	-4.9		
1.150	14.7	1.9	4.5	22.0	-2.7	6.6	-1.4	35.9	-5.0		
1.200	11.4	1.5	3.6	19.9	-3.3	5.8	-1.6	32.4	-6.0		
1.250	8.2	1.1	2.6	17.9	-4.2	5.1	-1.8	28.9	-7.4		
1.267	7.1	1.0	2.4	16.9	-5.2	4.7	-1.8	27.1	-8.8		
1.300	4.2	0.7	1.7	15.1	-6.2	4.0	-2.0	24.0	-10.2		

----- UNFACTORED SHEAR SUMMARY -----

GIRDER: 1 * * * UNFACTORED SHEAR SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 2 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued)
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
1.350	1.0	0.3	0.8	13.3	-7.5	3.3	-2.4	21.0	-12.4		
1.366	0.0	0.2	0.4	12.4	-7.9	3.0	-2.5	19.5	-12.9		
1.400	-2.1	-0.1	-0.2	11.6	-9.0	2.7	-2.8	18.1	-14.8		
1.450	-5.2	-0.5	-1.2	10.0	-10.6	2.2	-3.3	15.5	-17.4		
1.500	-8.3	-0.9	-2.2	8.4	-12.2	1.8	-3.8	12.9	-20.0		
1.533	-11.2	-1.1	-2.8	7.2	-13.8	1.4	-4.4	11.0	-22.7		
1.550	-12.3	-1.3	-3.0	6.0	-14.7	1.2	-4.7	9.1	-24.2		
1.600	-15.3	-1.6	-4.0	4.6	-16.2	1.0	-5.4	7.1	-26.9		
1.650	-18.3	-2.0	-5.0	3.5	-17.6	0.8	-6.1	5.4	-29.5		
1.667	-19.4	-2.2	-5.3	2.8	-17.9	0.7	-6.2	4.5	-30.1		
1.700	-21.3	-2.4	-5.9	2.5	-19.0	0.7	-6.8	4.0	-32.1		
1.742	-23.8	-2.8	-6.7	1.8	-19.6	0.6	-7.3	3.0	-33.3		
1.750	-24.3	-2.8	-6.9	1.8	-20.2	0.6	-7.5	3.0	-34.5		
1.800	-27.3	-3.2	-7.9	1.2	-21.4	0.5	-8.3	2.1	-36.8		
1.801	-27.8	-3.2	-7.9	1.3	-22.3	0.7	-8.7	2.4	-38.4		
1.850	-30.7	-3.6	-8.8	1.7	-23.3	0.8	-9.5	3.1	-40.5		
1.900	-33.7	-4.0	-9.8	2.3	-24.1	1.0	-10.3	4.1	-42.3		
1.900	-33.7	-4.0	-9.8	2.3	-24.1	1.0	-10.3	4.1	-42.3		
1.950	-36.6	-4.4	-10.8	2.9	-24.4	1.3	-11.0	5.1	-43.5		
2.000	-39.6	-4.8	-11.8	2.9	-24.4	1.3	-11.7	5.1	-44.2		
2.000	39.2	4.8	11.8	24.5	-2.9	11.7	-1.3	44.2	-5.2		
2.050	36.2	4.4	10.8	24.5	-2.9	11.0	-1.3	43.6	-5.2		
2.100	33.3	4.0	9.8	24.2	-2.4	10.2	-1.1	42.4	-4.2		
2.101	33.2	4.0	9.8	23.8	-1.8	10.0	-0.9	41.7	-3.2		
2.150	30.3	3.6	8.8	23.5	-1.8	9.4	-0.9	40.7	-3.2		
2.200	27.4	3.2	7.8	22.5	-1.3	8.6	-0.7	38.5	-2.5		
2.202	27.2	3.2	7.8	21.9	-1.3	8.4	-0.6	37.5	-2.3		
2.250	23.9	2.8	6.9	20.4	-1.4	7.5	-0.6	34.6	-2.4		
2.250	23.9	2.8	6.9	19.9	-1.9	7.3	-0.5	33.8	-3.0		
2.251	23.8	2.8	6.9	19.9	-1.9	7.3	-0.5	33.7	-3.0		
2.262	23.2	2.7	6.6	19.7	-1.9	7.2	-0.6	33.4	-3.1		
2.300	21.0	2.4	5.9	19.2	-2.5	6.8	-0.7	32.3	-4.0		
2.334	19.0	2.2	5.2	18.1	-2.7	6.2	-0.7	30.3	-4.3		
2.350	18.1	2.0	4.9	17.8	-3.4	6.0	-0.8	29.7	-5.3		
2.400	15.1	1.6	4.0	16.4	-4.5	5.3	-0.9	27.1	-6.9		
2.450	12.2	1.3	3.0	14.9	-5.8	4.7	-1.2	24.4	-8.9		
2.467	11.2	1.1	2.8	14.0	-7.1	4.3	-1.4	22.9	-10.8		
2.500	8.2	0.9	2.2	12.4	-8.3	3.8	-1.7	20.2	-12.7		
2.550	5.2	0.5	1.2	10.8	-9.8	3.2	-2.2	17.6	-15.2		
2.600	2.2	0.1	0.2	9.2	-11.4	2.7	-2.7	15.0	-17.8		
2.636	0.0	-0.2	-0.5	8.0	-12.2	2.4	-3.0	13.1	-19.2		
2.650	-0.9	-0.3	-0.7	7.7	-13.0	2.3	-3.2	12.6	-20.6		
2.700	-4.0	-0.7	-1.7	6.2	-14.8	1.9	-3.9	10.2	-23.6		
2.733	-6.8	-1.0	-2.3	4.9	-16.7	1.7	-4.6	8.3	-26.7		
2.750	-7.9	-1.1	-2.6	3.9	-17.7	1.7	-4.9	6.8	-28.5		
2.800	-11.0	-1.5	-3.6	2.7	-19.7	1.5	-5.7	5.0	-31.9		
2.850	-14.2	-1.9	-4.5	2.4	-21.8	1.3	-6.5	4.6	-35.5		
2.867	-15.3	-2.0	-4.8	2.4	-22.3	1.3	-6.8	4.5	-36.4		
2.900	-17.5	-2.3	-5.5	2.4	-23.8	1.2	-7.4	4.5	-39.1		
2.950	-20.8	-2.7	-6.5	2.5	-25.7	1.2	-8.4	4.6	-42.6		
3.000	-24.1	-3.1	-7.5	2.5	-27.0	1.1	-9.3	4.5	-45.2		
3.000	-24.1	-3.1	-7.5	2.5	-27.0	1.1	-9.3	4.5	-45.2		
3.000	1.0	0.1	0.3	13.7	0.0	0.1	0.0	18.3	0.0		
3.231	0.8	0.1	0.2	13.7	0.0	0.0	0.0	18.2	0.0		
4.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

----- UNFACTORED SHEAR SUMMARY -----

GIRDER: 1 * * * UNFACTORED SHEAR SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 3 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED
 LANE POSITION: ONE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
0.000	0.0	0.0	0.0							0.6	-0.4
0.769	-0.8	-0.1	-0.3							0.6	-11.7
1.000	-1.1	-0.1	-0.3							0.6	-11.7
1.000	24.8	3.1	7.5							18.9	-1.5
1.000	24.8	3.1	7.5							18.8	-1.5
1.050	21.4	2.7	6.5							17.6	-1.5
1.100	18.0	2.3	5.5							16.1	-1.5
1.133	15.8	2.0	4.9							15.0	-1.5
1.150	14.7	1.9	4.5							14.6	-1.5
1.200	11.4	1.5	3.6							13.0	-1.8
1.250	8.2	1.1	2.6							11.5	-2.6
1.267	7.1	1.0	2.4							10.8	-3.2
1.300	4.2	0.7	1.7							9.5	-3.9
1.350	1.0	0.3	0.8							8.1	-4.6
1.366	0.0	0.2	0.4							7.5	-4.7
1.400	-2.1	-0.1	-0.2							6.9	-5.3
1.450	-5.2	-0.5	-1.2							5.8	-5.9
1.500	-8.3	-0.9	-2.2							4.8	-6.7
1.533	-11.2	-1.1	-2.8							4.2	-7.9
1.550	-12.3	-1.3	-3.0							3.5	-8.5
1.600	-15.3	-1.6	-4.0							2.4	-9.7
1.650	-18.3	-2.0	-5.0							1.9	-11.0
1.667	-19.4	-2.2	-5.3							1.5	-11.3
1.700	-21.3	-2.4	-5.9							1.4	-12.3
1.742	-23.8	-2.8	-6.7							1.0	-13.0
1.750	-24.3	-2.8	-6.9							1.0	-13.5
1.800	-27.3	-3.2	-7.9							0.6	-14.6
1.801	-27.8	-3.2	-7.9							0.6	-15.2
1.850	-30.7	-3.6	-8.8							0.8	-16.2
1.900	-33.7	-4.0	-9.8							1.0	-17.0
1.900	-33.7	-4.0	-9.8							1.0	-17.0
1.950	-36.6	-4.4	-10.8							1.2	-17.6
2.000	-39.6	-4.8	-11.8							1.2	-18.0
2.000	39.2	4.8	11.8							18.1	-1.3
2.050	36.2	4.4	10.8							17.7	-1.3
2.100	33.3	4.0	9.8							17.1	-1.0
2.101	33.2	4.0	9.8							16.8	-0.8
2.150	30.3	3.6	8.8							16.3	-0.8
2.200	27.4	3.2	7.8							15.2	-0.6
2.202	27.2	3.2	7.8							14.9	-0.6
2.250	23.9	2.8	6.9							13.6	-0.6
2.250	23.9	2.8	6.9							13.2	-1.0
2.251	23.8	2.8	6.9							13.2	-1.0
2.262	23.2	2.7	6.6							13.0	-1.0
2.300	21.0	2.4	5.9							12.3	-1.5
2.334	19.0	2.2	5.2							11.4	-1.6
2.350	18.1	2.0	4.9							11.1	-2.1
2.400	15.1	1.6	4.0							9.8	-2.7
2.450	12.2	1.3	3.0							8.6	-3.4
2.467	11.2	1.1	2.8							8.0	-4.1
2.500	8.2	0.9	2.2							6.8	-4.7
2.550	5.2	0.5	1.2							6.1	-5.7
2.600	2.2	0.1	0.2							4.7	-6.7
2.636	0.0	-0.2	-0.5							4.2	-7.4
2.650	-0.9	-0.3	-0.7							4.1	-8.0
2.700	-4.0	-0.7	-1.7							3.6	-9.3
2.733	-6.8	-1.0	-2.3							3.1	-10.6

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----- UNFACTORED SHEAR SUMMARY -----

GIRDER: 1 * * * UNFACTORED SHEAR SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 3 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued)
 LANE POSITION: ONE LANE WITH IMPACT

SPAN.LOC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC FRAC	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
2.750	-7.9	-1.1	-2.6							2.5	-11.3
2.800	-11.0	-1.5	-3.6							1.9	-12.8
2.850	-14.2	-1.9	-4.5							1.3	-14.4
2.867	-15.3	-2.0	-4.8							1.3	-14.8
2.900	-17.5	-2.3	-5.5							1.3	-15.9
2.950	-20.8	-2.7	-6.5							1.4	-17.5
3.000	-24.1	-3.1	-7.5							1.4	-18.7
3.000	-24.1	-3.1	-7.5							1.4	-18.7
3.000	1.0	0.1	0.3							11.4	0.0
3.231	0.8	0.1	0.2							11.4	0.0
4.000	0.0	0.0	0.0							0.0	0.0

----- LOAD COMBINATION TABLES -----

COMBINATION TABLE: 1 LRFR2009 STANDARD (Default)

LOAD COMBINATION				LOAD FACTORS				-6A.4.2.1-3-IMPACT FACT-ENVELOPE-			
#	NAME	CATEGORY	RATING	A-DL	B-DL	DW-DL	LL	FACTOR	TRK	LN	TYPE
1	STRENGTH INVENTORY	STRENGTH-I	STR-INV	1.250	1.250	1.500	1.750	1.000	1.330	1.000	MOM-MAX
2	STRENGTH INVENTORY	STRENGTH-I	STR-INV	1.250	1.250	1.500	1.750	1.000	1.330	1.000	MOM-MIN
3	STRENGTH INVENTORY	STRENGTH-I	STR-INV	1.250	1.250	1.500	1.750	1.000	1.330	1.000	SHR-MAX
4	STRENGTH INVENTORY	STRENGTH-I	STR-INV	1.250	1.250	1.500	1.750	1.000	1.330	1.000	SHR-MIN
5	SERVICE INVENTORY	SERVICE-II	SRV-INV	1.000	1.000	1.000	1.300	1.000	1.330	1.000	MOM-MAX
6	SERVICE INVENTORY	SERVICE-II	SRV-INV	1.000	1.000	1.000	1.300	1.000	1.330	1.000	MOM-MIN
7	SERVICE INVENTORY	SERVICE-II	SRV-INV	1.000	1.000	1.000	1.300	1.000	1.330	1.000	SHR-MAX
8	SERVICE INVENTORY	SERVICE-II	SRV-INV	1.000	1.000	1.000	1.300	1.000	1.330	1.000	SHR-MIN
9	STRENGTH OPERATING	STRENGTH-I	STR-OPR	1.250	1.250	1.500	1.350	1.000	1.330	1.000	MOM-MAX
10	STRENGTH OPERATING	STRENGTH-I	STR-OPR	1.250	1.250	1.500	1.350	1.000	1.330	1.000	MOM-MIN
11	STRENGTH OPERATING	STRENGTH-I	STR-OPR	1.250	1.250	1.500	1.350	1.000	1.330	1.000	SHR-MAX
12	STRENGTH OPERATING	STRENGTH-I	STR-OPR	1.250	1.250	1.500	1.350	1.000	1.330	1.000	SHR-MIN
13	SERVICE OPERATING	SERVICE-II	SRV-OPR	1.000	1.000	1.000	1.000	1.000	1.330	1.000	MOM-MAX
14	SERVICE OPERATING	SERVICE-II	SRV-OPR	1.000	1.000	1.000	1.000	1.000	1.330	1.000	MOM-MIN
15	SERVICE OPERATING	SERVICE-II	SRV-OPR	1.000	1.000	1.000	1.000	1.000	1.330	1.000	SHR-MAX
16	SERVICE OPERATING	SERVICE-II	SRV-OPR	1.000	1.000	1.000	1.000	1.000	1.330	1.000	SHR-MIN

COMBINATION TABLE: 2 LRFR2009 LEGAL & PERMIT (Default)

LOAD COMBINATION				LOAD FACTORS				-6A.4.2.1-3-IMPACT FACT-ENVELOPE-			
#	NAME	CATEGORY	RATING	A-DL	B-DL	DW-DL	LL	FACTOR	TRK	LN	TYPE
1	STRENGTH-I LEGAL	STRENGTH-I	STR-LGL	1.250	1.250	1.500	1.510	1.000	1.330	1.000	MOM-MAX
2	STRENGTH-I LEGAL	STRENGTH-I	STR-LGL	1.250	1.250	1.500	1.510	1.000	1.330	1.000	MOM-MIN
3	STRENGTH-I LEGAL	STRENGTH-I	STR-LGL	1.250	1.250	1.500	1.510	1.000	1.330	1.000	SHR-MAX
4	STRENGTH-I LEGAL	STRENGTH-I	STR-LGL	1.250	1.250	1.500	1.510	1.000	1.330	1.000	SHR-MIN
5	STRENGTH-II PERMIT	STRENGTH-II	STR-PMT	1.250	1.250	1.500	1.800	1.000	1.330	1.000	MOM-MAX
6	STRENGTH-II PERMIT	STRENGTH-II	STR-PMT	1.250	1.250	1.500	1.800	1.000	1.330	1.000	MOM-MIN
7	STRENGTH-II PERMIT	STRENGTH-II	STR-PMT	1.250	1.250	1.500	1.800	1.000	1.330	1.000	SHR-MAX
8	STRENGTH-II PERMIT	STRENGTH-II	STR-PMT	1.250	1.250	1.500	1.800	1.000	1.330	1.000	SHR-MIN
9	SERVICE-II LEGAL	SERVICE-II	SRV-LGL	1.000	1.000	1.000	1.300	1.000	1.330	1.000	MOM-MAX
10	SERVICE-II LEGAL	SERVICE-II	SRV-LGL	1.000	1.000	1.000	1.300	1.000	1.330	1.000	MOM-MIN
11	SERVICE-II LEGAL	SERVICE-II	SRV-LGL	1.000	1.000	1.000	1.300	1.000	1.330	1.000	SHR-MAX
12	SERVICE-II LEGAL	SERVICE-II	SRV-LGL	1.000	1.000	1.000	1.300	1.000	1.330	1.000	SHR-MIN
13	SERVICE-II PERMIT	SERVICE-II	SRV-PMT	1.000	1.000	1.000	1.000	1.000	1.330	1.000	MOM-MAX
14	SERVICE-II PERMIT	SERVICE-II	SRV-PMT	1.000	1.000	1.000	1.000	1.000	1.330	1.000	MOM-MIN
15	SERVICE-II PERMIT	SERVICE-II	SRV-PMT	1.000	1.000	1.000	1.000	1.000	1.330	1.000	SHR-MAX

----- LOAD COMBINATION TABLES -----

COMBINATION TABLE: 2 LRFR2009 LEGAL & PERMIT (Default) (CONTD)

LOAD COMBINATION				LOAD FACTORS				-6A.4.2.1-3-	-IMPACT	FACT-	-ENVELOPE-
#	NAME	CATEGORY	RATING	A-DL	B-DL	DW-DL	LL	FACTOR	TRK	LN	TYPE
16	SERVICE-II PERMIT	SERVICE-II	SRV-PMT	1.000	1.000	1.000	1.000	1.000	1.330	1.000	SHR-MIN

COMBINATION TABLE: 3 LRFR2009 FATIGUE (Default)

LOAD COMBINATION				LOAD FACTORS				-6A.4.2.1-3-	-IMPACT	FACT-	-ENVELOPE-
#	NAME	CATEGORY	RATING	A-DL	B-DL	DW-DL	LL	FACTOR	TRK	LN	TYPE
1	FATIGUE-INFINITE	FATIGUE-I LL	FAT-INF	1.000	1.000	1.000	1.500	1.000	1.150	0.000	MOM-MAX
2	FATIGUE-INFINITE	FATIGUE-I LL	FAT-INF	1.000	1.000	1.000	1.500	1.000	1.150	0.000	MOM-MIN
3	FATIGUE-FINITE	FATIGUE-II L	FAT-FIN	1.000	1.000	1.000	0.750	1.000	1.150	0.000	MOM-MAX
4	FATIGUE-FINITE	FATIGUE-II L	FAT-FIN	1.000	1.000	1.000	0.750	1.000	1.150	0.000	MOM-MIN

----- LOAD TEMPLATES -----

LL TEMPLATE NUMBER: 1

LL PATTERN: 1 HL-93-ED

COMBINATION TABLE: 1 LRFR2009 STANDARD (Default)

LANE POSITIONS: MLW: Yes CLW: No CLO: No OLW: No OLO: No

LL TEMPLATE NUMBER: 2

LL PATTERN: 1 HL-93-ED

COMBINATION TABLE: 2 LRFR2009 LEGAL & PERMIT (Default)

LANE POSITIONS: MLW: Yes CLW: No CLO: No OLW: No OLO: No

LL TEMPLATE NUMBER: 3

LL PATTERN: 1 HL-93-ED

COMBINATION TABLE: 3 LRFR2009 FATIGUE (Default)

LANE POSITIONS: MLW: No CLW: No CLO: No OLW: Yes OLO: No

----- FACTORED FORCE SUMMARY -----

STRENGTH-I INVENTORY

MULTI LANE WITH IMPACT

LL CASE: 1 NAME: HL-93-ED

SPAN.LOC		MAX MOMENT			MIN MOMENT			MAX SHEAR			MIN SHEAR		
FRAC	COMB	M	COR	V	COMB	M	COR	V	COMB	V	COR	M	COMB
	NO	(ft-k)	(ft-k)	(kips)	NO	(ft-k)	(ft-k)	(kips)	NO	(kips)	(ft-k)		NO
0.000	3	6	0	4	4	-3	0	-2	3	4	6	4	4
0.769	3	9	0	3	2	-22	0	-35	3	3	9	4	4
1.000	3	10	0	2	2	-30	0	-36	3	2	10	4	4
1.000	1	10	0	52	2	-30	0	79	3	126	-4	4	4
1.000	1	11	0	58	2	-29	0	78	3	126	-1	4	4
1.050	1	408	0	114	2	79	0	27	3	114	405	4	4
1.100	1	763	0	101	2	153	0	17	3	101	754	4	4
1.133	1	970	0	94	2	189	0	14	3	94	955	4	4
1.150	1	1061	0	88	2	205	0	13	3	89	1043	4	4
1.200	1	1299	0	47	2	241	0	8	3	77	1270	4	4
1.250	1	1481	0	35	2	262	0	3	3	64	1439	4	4
1.267	1	1529	0	28	2	265	0	1	3	57	1477	4	4
1.300	1	1598	0	16	2	264	0	-2	3	49	1529	4	4
1.350	1	1675	0	5	2	251	0	-6	3	38	1568	4	4
1.366	1	1689	0	2	2	243	0	-8	3	35	1573	4	4
1.400	1	1700	0	-6	2	221	0	-10	3	28	1408	4	4
1.450	1	1675	0	-17	2	177	0	-15	3	19	1357	4	4
1.500	1	1630	0	-16	2	118	0	-19	3	10	1268	4	4
1.533	1	1572	0	-26	2	70	0	-23	3	1	1177	4	4
1.550	1	1531	0	-31	2	43	0	-24	3	-2	1125	4	4
1.600	1	1374	0	-42	2	-48	0	-28	3	-10	943	4	4

----- FACTORED FORCE SUMMARY -----

STRENGTH-I INVENTORY (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
1.650	1	1171	0	-78	2	-154	0	-32	3	-17	667	4	-85	1047
1.667	1	1093	0	-59	2	-193	0	-33	3	-19	608	4	-87	970
1.700	1	933	0	-67	2	-274	0	-36	3	-24	484	4	-95	816
1.742	1	698	0	-74	2	-388	0	-40	3	-28	318	4	-102	581
1.750	1	653	0	-77	2	-411	0	-40	3	-30	283	4	-105	539
1.800	1	351	0	-75	2	-576	0	-56	3	-35	-193	4	-114	222
1.801	1	345	0	-79	2	-580	0	-55	3	-35	-251	4	-118	222
1.850	1	27	0	-85	2	-782	0	-62	3	-38	-416	4	-127	-140
1.900	1	-282	0	-76	2	-1034	0	-102	3	-40	-560	4	-136	-543
1.900	1	-285	0	-76	2	-1037	0	-102	3	-40	-561	4	-136	-547
1.950	1	-548	0	-71	2	-1428	0	-122	3	-42	-701	4	-144	-975
2.000	1	-760	0	-52	2	-1875	0	-132	3	-47	-857	4	-151	-1432
2.000	1	-761	0	52	2	-1875	0	134	3	150	-1447	4	46	-840
2.050	1	-550	0	70	2	-1428	0	123	3	143	-999	4	44	-688
2.100	1	-297	0	71	2	-1035	0	105	3	134	-573	4	41	-543
2.101	1	-292	0	71	2	-1028	0	105	3	134	-565	4	41	-540
2.150	1	-11	0	82	2	-747	0	62	3	125	-175	4	38	-369
2.200	1	309	0	77	2	-541	0	54	3	116	191	4	35	-219
2.202	1	320	0	73	2	-534	0	54	3	112	197	4	34	122
2.250	1	611	0	77	2	-381	0	39	3	104	505	4	29	311
2.250	1	609	0	75	2	-380	0	39	3	103	500	4	28	315
2.251	1	616	0	75	2	-377	0	39	3	103	506	4	28	319
2.262	1	680	0	73	2	-347	0	38	3	101	571	4	27	360
2.300	1	888	0	65	2	-250	0	35	3	93	773	4	22	499
2.334	1	1056	0	59	2	-169	0	32	3	87	940	4	19	591
2.350	1	1127	0	51	2	-134	0	31	3	83	1002	4	16	738
2.400	1	1331	0	41	2	-32	0	27	3	73	1185	4	9	916
2.450	1	1490	0	30	2	56	0	23	3	62	1320	4	1	1096
2.467	1	1531	0	23	2	82	0	21	3	56	1341	4	-5	1157
2.500	1	1591	0	15	2	128	0	18	3	49	1381	4	-11	1239
2.550	1	1639	0	4	2	185	0	14	3	39	1403	4	-19	1328
2.600	1	1667	0	5	2	227	0	10	3	28	1376	4	-28	1381
2.636	1	1655	0	-1	2	248	0	7	3	23	1191	4	-35	1538
2.650	1	1645	0	-6	2	254	0	6	3	19	1166	4	-39	1544
2.700	1	1573	0	-17	2	267	0	1	3	11	1061	4	-50	1510
2.733	1	1504	0	-30	2	267	0	-2	3	3	822	4	-60	1457
2.750	1	1459	0	-35	2	263	0	-4	3	0	777	4	-65	1426
2.800	1	1284	0	-47	2	241	0	-8	3	-7	614	4	-77	1255
2.850	1	1051	0	-89	2	205	0	-13	3	-12	219	4	-89	1034
2.867	1	958	0	-92	2	189	0	-14	3	-14	201	4	-93	944
2.900	1	759	0	-101	2	152	0	-17	3	-17	159	4	-101	750
2.950	1	408	0	-113	2	83	0	-22	3	-21	88	4	-114	405
3.000	1	8	0	-52	2	-10	0	-75	3	-26	3	4	-124	0
3.000	1	7	0	-52	2	-12	0	-77	3	-26	3	4	-124	-3
3.000	1	-1	0	1	2	-9	0	34	3	34	-9	4	1	-1
3.231	1	0	0	1	2	-1	0	33	3	33	-1	4	1	0
4.000	1	0	0	0	2	0	0	0	3	0	0	4	0	0

SERVICE-II INVENTORY
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	7	5	0	3	8	-2	0	-1	7	3	5	8	-1	-2
0.769	7	7	0	2	6	-16	0	-26	7	2	7	8	-26	-10
1.000	7	7	0	2	6	-23	0	-27	7	2	7	8	-27	-16

----- FACTORED FORCE SUMMARY -----

SERVICE-II INVENTORY (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
1.000	5	8	0	41	6	-23	0	60	7	95	-3	8	22	3
1.000	5	8	0	45	6	-21	0	59	7	94	-1	8	22	3
1.050	5	306	0	85	6	65	0	21	7	85	305	8	18	71
1.100	5	574	0	76	6	126	0	14	7	76	567	8	14	131
1.133	5	729	0	70	6	156	0	12	7	71	718	8	11	165
1.150	5	797	0	66	6	169	0	10	7	67	784	8	10	180
1.200	5	977	0	35	6	200	0	7	7	57	955	8	5	558
1.250	5	1113	0	26	6	217	0	3	7	48	1082	8	0	653
1.267	5	1149	0	21	6	220	0	1	7	43	1111	8	-4	786
1.300	5	1201	0	12	6	221	0	-1	7	37	1150	8	-8	853
1.350	5	1259	0	4	6	212	0	-4	7	28	1179	8	-15	911
1.366	5	1269	0	1	6	206	0	-6	7	26	1183	8	-17	928
1.400	5	1277	0	-5	6	190	0	-8	7	20	1072	8	-22	1059
1.450	5	1258	0	-13	6	156	0	-11	7	13	1033	8	-30	1082
1.500	5	1223	0	-12	6	110	0	-15	7	7	965	8	-37	1067
1.533	5	1179	0	-20	6	73	0	-18	7	0	895	8	-45	1044
1.550	5	1148	0	-24	6	52	0	-19	7	-3	856	8	-48	1023
1.600	5	1028	0	-32	6	-20	0	-22	7	-9	716	8	-56	921
1.650	5	875	0	-59	6	-103	0	-25	7	-14	507	8	-64	783
1.667	5	816	0	-45	6	-134	0	-26	7	-16	461	8	-66	725
1.700	5	695	0	-51	6	-197	0	-28	7	-19	365	8	-71	608
1.742	5	517	0	-56	6	-287	0	-31	7	-23	237	8	-77	430
1.750	5	483	0	-58	6	-306	0	-32	7	-24	209	8	-79	399
1.800	5	253	0	-58	6	-435	0	-43	7	-28	-151	8	-86	158
1.801	5	248	0	-61	6	-438	0	-42	7	-28	-195	8	-89	158
1.850	5	4	0	-66	6	-592	0	-47	7	-30	-325	8	-96	-115
1.900	5	-235	0	-59	6	-784	0	-78	7	-32	-441	8	-102	-420
1.900	5	-237	0	-59	6	-787	0	-78	7	-32	-442	8	-103	-423
1.950	5	-442	0	-55	6	-1083	0	-92	7	-34	-555	8	-108	-747
2.000	5	-610	0	-42	6	-1421	0	-100	7	-38	-682	8	-114	-1092
2.000	5	-611	0	42	6	-1421	0	102	7	113	-1103	8	37	-669
2.050	5	-444	0	55	6	-1083	0	93	7	108	-764	8	35	-546
2.100	5	-245	0	56	6	-785	0	79	7	101	-442	8	33	-429
2.101	5	-242	0	56	6	-780	0	79	7	101	-436	8	33	-426
2.150	5	-24	0	64	6	-566	0	48	7	95	-141	8	31	-291
2.200	5	221	0	59	6	-409	0	42	7	87	135	8	28	-171
2.202	5	230	0	57	6	-403	0	42	7	85	140	8	27	83
2.250	5	451	0	58	6	-284	0	31	7	79	372	8	24	230
2.250	5	450	0	57	6	-283	0	31	7	78	369	8	23	233
2.251	5	455	0	57	6	-281	0	31	7	77	374	8	23	236
2.262	5	504	0	56	6	-257	0	30	7	76	423	8	22	268
2.300	5	661	0	50	6	-181	0	28	7	70	575	8	18	376
2.334	5	788	0	45	6	-117	0	25	7	66	702	8	16	448
2.350	5	842	0	39	6	-89	0	25	7	63	749	8	13	559
2.400	5	996	0	31	6	-8	0	21	7	55	888	8	8	696
2.450	5	1116	0	23	6	61	0	18	7	47	990	8	2	833
2.467	5	1148	0	17	6	81	0	16	7	42	1006	8	-3	880
2.500	5	1193	0	11	6	117	0	14	7	37	1037	8	-7	942
2.550	5	1230	0	3	6	161	0	11	7	29	1055	8	-14	1010
2.600	5	1251	0	4	6	193	0	8	7	21	1035	8	-21	1051
2.636	5	1243	0	-1	6	209	0	5	7	17	910	8	-26	1156
2.650	5	1236	0	-4	6	214	0	4	7	14	891	8	-29	1160
2.700	5	1182	0	-13	6	222	0	1	7	8	812	8	-37	1135
2.733	5	1130	0	-23	6	221	0	-2	7	2	634	8	-45	1095
2.750	5	1096	0	-26	6	218	0	-3	7	-1	600	8	-49	1072
2.800	5	965	0	-35	6	199	0	-7	7	-6	476	8	-58	943
2.850	5	790	0	-66	6	168	0	-11	7	-10	179	8	-67	777
2.867	5	720	0	-69	6	155	0	-12	7	-11	164	8	-70	709
2.900	5	570	0	-76	6	125	0	-14	7	-14	130	8	-76	564
2.950	5	306	0	-85	6	68	0	-18	7	-18	71	8	-85	305

----- FACTORED FORCE SUMMARY -----

SERVICE-II INVENTORY (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
3.000	5	6	0	-41	6	-8	0	-57	7	-21	2	8	-93	0
3.000	5	5	0	-40	6	-9	0	-58	7	-21	2	8	-93	-2
3.000	5	-1	0	1	6	-7	0	25	7	25	-7	8	1	-1
3.231	5	0	0	1	6	0	0	25	7	25	0	8	1	0
4.000	5	0	0	0	6	0	0	0	7	0	0	8	0	0

STRENGTH-I OPERATING
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	11	5	0	3	12	-3	0	-1	11	3	5	12	-1	-3
0.769	11	7	0	2	10	-17	0	-27	11	2	7	12	-28	-10
1.000	11	7	0	2	10	-24	0	-28	11	2	7	12	-28	-17
1.000	9	8	0	48	10	-24	0	71	11	108	-3	12	28	3
1.000	9	9	0	52	10	-22	0	70	11	107	-1	12	28	3
1.050	9	349	0	97	10	86	0	27	11	97	347	12	24	93
1.100	9	652	0	86	10	166	0	19	11	86	645	12	19	172
1.133	9	828	0	79	10	207	0	16	11	79	817	12	16	216
1.150	9	906	0	75	10	225	0	14	11	75	892	12	14	236
1.200	9	1110	0	41	10	267	0	10	11	64	1088	12	8	640
1.250	9	1264	0	30	10	294	0	5	11	53	1232	12	2	746
1.267	9	1305	0	24	10	299	0	3	11	47	1266	12	-3	887
1.300	9	1364	0	15	10	303	0	0	11	40	1311	12	-8	959
1.350	9	1429	0	5	10	296	0	-4	11	30	1346	12	-15	1022
1.366	9	1439	0	2	10	290	0	-6	11	27	1350	12	-17	1040
1.400	9	1448	0	-5	10	273	0	-9	11	21	1188	12	-23	1222
1.450	9	1424	0	-15	10	235	0	-13	11	13	1145	12	-32	1241
1.500	9	1379	0	-16	10	181	0	-17	11	5	1069	12	-42	1218
1.533	9	1325	0	-25	10	138	0	-21	11	-2	992	12	-50	1186
1.550	9	1289	0	-29	10	112	0	-22	11	-6	947	12	-54	1159
1.600	9	1148	0	-39	10	27	0	-26	11	-13	791	12	-63	1036
1.650	9	967	0	-68	10	-73	0	-30	11	-19	560	12	-73	872
1.667	9	898	0	-54	10	-111	0	-32	11	-21	507	12	-75	803
1.700	9	755	0	-60	10	-188	0	-34	11	-25	397	12	-82	665
1.742	9	546	0	-67	10	-297	0	-38	11	-29	248	12	-88	457
1.750	9	506	0	-70	10	-319	0	-39	11	-31	216	12	-91	419
1.800	9	239	0	-67	10	-480	0	-54	11	-36	-180	12	-100	136
1.801	9	234	0	-69	10	-484	0	-54	11	-36	-226	12	-102	135
1.850	9	-43	0	-76	10	-681	0	-60	11	-39	-385	12	-111	-186
1.900	9	-317	0	-69	10	-922	0	-93	11	-42	-531	12	-119	-544
1.900	9	-320	0	-69	10	-926	0	-93	11	-42	-533	12	-119	-548
1.950	9	-562	0	-66	10	-1278	0	-109	11	-44	-680	12	-126	-929
2.000	9	-768	0	-53	10	-1679	0	-119	11	-49	-843	12	-133	-1338
2.000	9	-769	0	52	10	-1679	0	120	11	133	-1350	12	48	-830
2.050	9	-564	0	66	10	-1279	0	110	11	125	-948	12	45	-670
2.100	9	-329	0	66	10	-924	0	95	11	118	-568	12	42	-520
2.101	9	-325	0	66	10	-918	0	95	11	118	-561	12	42	-517
2.150	9	-73	0	73	10	-655	0	61	11	109	-214	12	39	-350
2.200	9	206	0	68	10	-454	0	53	11	101	110	12	35	-202
2.202	9	215	0	65	10	-447	0	53	11	98	117	12	34	62
2.250	9	472	0	69	10	-298	0	37	11	91	390	12	30	236
2.250	9	470	0	68	10	-297	0	38	11	89	386	12	29	239
2.251	9	476	0	68	10	-294	0	38	11	89	392	12	29	243
2.262	9	534	0	66	10	-265	0	37	11	87	450	12	28	280
2.300	9	718	0	59	10	-172	0	34	11	80	630	12	24	406

----- FACTORED FORCE SUMMARY -----

STRENGTH-I OPERATING (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
2.334	9	868	0	54	10	-94	0	31	11	75	778	12	21	492
2.350	9	931	0	47	10	-61	0	30	11	71	834	12	18	612
2.400	9	1112	0	38	10	37	0	26	11	62	999	12	12	768
2.450	9	1254	0	28	10	119	0	22	11	53	1123	12	5	921
2.467	9	1291	0	22	10	144	0	19	11	47	1144	12	0	973
2.500	9	1346	0	15	10	186	0	17	11	41	1184	12	-6	1043
2.550	9	1393	0	5	10	237	0	13	11	32	1211	12	-13	1119
2.600	9	1419	0	5	10	274	0	8	11	23	1194	12	-21	1164
2.636	9	1410	0	-1	10	291	0	5	11	17	1018	12	-27	1320
2.650	9	1403	0	-5	10	296	0	4	11	15	999	12	-30	1324
2.700	9	1343	0	-15	10	302	0	0	11	7	915	12	-40	1294
2.733	9	1283	0	-26	10	298	0	-4	11	0	727	12	-49	1247
2.750	9	1245	0	-31	10	292	0	-5	11	-3	689	12	-53	1220
2.800	9	1096	0	-41	10	265	0	-10	11	-9	552	12	-64	1074
2.850	9	897	0	-74	10	223	0	-14	11	-14	234	12	-75	884
2.867	9	818	0	-78	10	205	0	-16	11	-16	214	12	-78	807
2.900	9	647	0	-86	10	164	0	-19	11	-19	169	12	-86	641
2.950	9	348	0	-96	10	90	0	-23	11	-23	93	12	-97	346
3.000	9	6	0	-48	10	-8	0	-68	11	-28	2	12	-106	0
3.000	9	5	0	-48	10	-9	0	-69	11	-28	2	12	-106	-3
3.000	9	-1	0	1	10	-7	0	27	11	27	-7	12	1	-1
3.231	9	0	0	1	10	-1	0	26	11	26	-1	12	1	0
4.000	9	0	0	0	10	0	0	0	11	0	0	12	0	0

SERVICE-II OPERATING
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	15	4	0	2	16	-2	0	-1	15	2	4	16	-1	-2
0.769	15	5	0	1	14	-12	0	-20	15	1	5	16	-20	-8
1.000	15	5	0	1	14	-18	0	-21	15	1	5	16	-21	-13
1.000	13	6	0	38	14	-18	0	54	15	81	-2	16	23	2
1.000	13	7	0	41	14	-17	0	53	15	81	-1	16	23	3
1.050	13	262	0	73	14	71	0	22	15	73	261	16	19	75
1.100	13	490	0	64	14	135	0	16	15	65	485	16	15	140
1.133	13	623	0	59	14	169	0	13	15	59	615	16	13	176
1.150	13	681	0	56	14	184	0	12	15	56	671	16	12	192
1.200	13	835	0	31	14	219	0	8	15	48	818	16	7	495
1.250	13	951	0	23	14	242	0	5	15	40	927	16	2	577
1.267	13	981	0	18	14	246	0	3	15	35	952	16	-1	682
1.300	13	1026	0	11	14	250	0	0	15	30	986	16	-5	736
1.350	13	1074	0	3	14	245	0	-3	15	22	1012	16	-11	784
1.366	13	1082	0	1	14	241	0	-4	15	20	1015	16	-13	797
1.400	13	1088	0	-4	14	228	0	-7	15	15	907	16	-17	920
1.450	13	1069	0	-12	14	199	0	-10	15	9	873	16	-24	934
1.500	13	1035	0	-12	14	158	0	-13	15	3	815	16	-31	915
1.533	13	994	0	-19	14	124	0	-16	15	-3	756	16	-38	890
1.550	13	966	0	-22	14	104	0	-17	15	-5	722	16	-41	870
1.600	13	859	0	-30	14	36	0	-21	15	-11	603	16	-48	776
1.650	13	722	0	-51	14	-43	0	-24	15	-16	426	16	-55	652
1.667	13	670	0	-41	14	-72	0	-25	15	-17	386	16	-57	600
1.700	13	562	0	-46	14	-133	0	-27	15	-20	300	16	-62	495
1.742	13	403	0	-51	14	-219	0	-30	15	-24	184	16	-67	337
1.750	13	373	0	-53	14	-237	0	-31	15	-25	159	16	-69	308
1.800	13	169	0	-52	14	-362	0	-42	15	-29	-141	16	-75	94
1.801	13	165	0	-54	14	-365	0	-42	15	-29	-175	16	-77	93

----- FACTORED FORCE SUMMARY -----

SERVICE-II OPERATING (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
1.850	13	-48	0	-59	14	-516	0	-46	15	-31	-302	16	-84	-150
1.900	13	-261	0	-54	14	-701	0	-71	15	-34	-420	16	-90	-421
1.900	13	-263	0	-54	14	-703	0	-71	15	-34	-421	16	-90	-423
1.950	13	-452	0	-52	14	-971	0	-83	15	-36	-540	16	-95	-712
2.000	13	-616	0	-42	14	-1274	0	-90	15	-39	-671	16	-100	-1021
2.000	13	-617	0	42	14	-1275	0	91	15	100	-1030	16	39	-662
2.050	13	-454	0	52	14	-971	0	83	15	95	-726	16	37	-533
2.100	13	-270	0	52	14	-702	0	72	15	89	-438	16	34	-411
2.101	13	-266	0	52	14	-698	0	72	15	89	-433	16	34	-409
2.150	13	-71	0	57	14	-497	0	47	15	83	-170	16	31	-276
2.200	13	144	0	53	14	-344	0	41	15	76	75	16	29	-158
2.202	13	151	0	50	14	-338	0	41	15	74	80	16	28	38
2.250	13	347	0	53	14	-222	0	30	15	68	286	16	24	174
2.250	13	346	0	52	14	-221	0	30	15	67	283	16	24	176
2.251	13	350	0	52	14	-219	0	30	15	67	288	16	24	179
2.262	13	394	0	50	14	-196	0	29	15	66	331	16	23	208
2.300	13	533	0	45	14	-122	0	27	15	61	468	16	20	306
2.334	13	647	0	41	14	-61	0	24	15	57	580	16	17	374
2.350	13	694	0	36	14	-34	0	24	15	54	623	16	15	464
2.400	13	831	0	29	14	43	0	20	15	47	748	16	10	584
2.450	13	939	0	21	14	108	0	17	15	40	842	16	4	702
2.467	13	968	0	17	14	128	0	15	15	36	859	16	1	742
2.500	13	1010	0	11	14	161	0	13	15	31	889	16	-4	795
2.550	13	1045	0	4	14	200	0	10	15	24	910	16	-9	854
2.600	13	1065	0	4	14	229	0	6	15	17	899	16	-15	888
2.636	13	1059	0	-1	14	241	0	4	15	13	780	16	-20	992
2.650	13	1054	0	-4	14	245	0	3	15	11	766	16	-22	996
2.700	13	1009	0	-11	14	249	0	-1	15	5	703	16	-30	973
2.733	13	965	0	-20	14	245	0	-4	15	0	562	16	-37	938
2.750	13	936	0	-23	14	240	0	-5	15	-3	534	16	-40	917
2.800	13	824	0	-31	14	217	0	-8	15	-8	430	16	-48	807
2.850	13	674	0	-56	14	182	0	-12	15	-12	190	16	-56	664
2.867	13	615	0	-58	14	167	0	-13	15	-13	174	16	-59	607
2.900	13	487	0	-64	14	134	0	-15	15	-15	138	16	-64	482
2.950	13	261	0	-72	14	73	0	-19	15	-19	75	16	-73	260
3.000	13	4	0	-38	14	-6	0	-51	15	-23	2	16	-80	0
3.000	13	4	0	-37	14	-7	0	-53	15	-23	1	16	-80	-2
3.000	13	-1	0	1	14	-5	0	20	15	20	-5	16	1	-1
3.231	13	0	0	1	14	0	0	19	15	19	0	16	1	0
4.000	13	0	0	0	14	0	0	0	15	0	0	16	0	0

STRENGTH-I LEGAL
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	3	6	0	3	4	-3	0	-2	3	3	6	4	-2	-3
0.769	3	8	0	2	2	-19	0	-31	3	2	8	4	-31	-11
1.000	3	8	0	2	2	-26	0	-31	3	2	8	4	-31	-19
1.000	1	9	0	50	2	-26	0	74	3	115	-3	4	28	3
1.000	1	10	0	54	2	-25	0	73	3	115	-1	4	27	4
1.050	1	372	0	103	2	83	0	27	3	104	370	4	23	90
1.100	1	696	0	92	2	161	0	18	3	92	689	4	18	167
1.133	1	885	0	85	2	200	0	15	3	85	872	4	15	210
1.150	1	968	0	80	2	217	0	14	3	81	952	4	13	230
1.200	1	1186	0	43	2	257	0	9	3	69	1161	4	7	673

----- FACTORED FORCE SUMMARY -----

STRENGTH-I LEGAL (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
1.250	1	1351	0	32	2	281	0	5	3	58	1315	4	0	787
1.267	1	1394	0	26	2	286	0	2	3	51	1350	4	-4	943
1.300	1	1458	0	15	2	288	0	-1	3	44	1398	4	-9	1021
1.350	1	1527	0	5	2	278	0	-5	3	33	1435	4	-17	1090
1.366	1	1539	0	2	2	271	0	-7	3	30	1439	4	-19	1110
1.400	1	1549	0	-6	2	252	0	-9	3	23	1276	4	-25	1296
1.450	1	1524	0	-16	2	212	0	-14	3	15	1230	4	-35	1320
1.500	1	1479	0	-16	2	156	0	-18	3	7	1148	4	-45	1299
1.533	1	1424	0	-25	2	111	0	-22	3	-1	1066	4	-54	1267
1.550	1	1385	0	-30	2	85	0	-23	3	-4	1018	4	-58	1240
1.600	1	1238	0	-40	2	-3	0	-27	3	-12	852	4	-68	1113
1.650	1	1049	0	-72	2	-106	0	-31	3	-18	602	4	-77	942
1.667	1	976	0	-56	2	-144	0	-33	3	-20	547	4	-80	870
1.700	1	826	0	-63	2	-222	0	-35	3	-24	432	4	-87	725
1.742	1	607	0	-70	2	-333	0	-39	3	-29	276	4	-94	506
1.750	1	565	0	-73	2	-356	0	-39	3	-30	243	4	-96	467
1.800	1	284	0	-70	2	-518	0	-55	3	-35	-185	4	-105	170
1.801	1	278	0	-73	2	-522	0	-55	3	-35	-236	4	-109	170
1.850	1	-15	0	-79	2	-721	0	-61	3	-38	-398	4	-117	-168
1.900	1	-303	0	-72	2	-967	0	-97	3	-41	-543	4	-126	-544
1.900	1	-306	0	-72	2	-970	0	-97	3	-41	-544	4	-126	-548
1.950	1	-556	0	-68	2	-1338	0	-114	3	-44	-688	4	-133	-947
2.000	1	-765	0	-52	2	-1757	0	-124	3	-48	-848	4	-140	-1375
2.000	1	-766	0	52	2	-1758	0	126	3	140	-1389	4	47	-834
2.050	1	-558	0	68	2	-1338	0	115	3	132	-968	4	45	-677
2.100	1	-316	0	68	2	-968	0	99	3	124	-570	4	42	-529
2.101	1	-311	0	68	2	-962	0	99	3	124	-563	4	42	-526
2.150	1	-48	0	77	2	-691	0	62	3	116	-198	4	39	-358
2.200	1	247	0	72	2	-489	0	54	3	107	142	4	35	-209
2.202	1	257	0	68	2	-482	0	54	3	104	149	4	34	86
2.250	1	527	0	72	2	-331	0	38	3	96	436	4	30	266
2.250	1	525	0	71	2	-330	0	38	3	95	431	4	29	269
2.251	1	532	0	71	2	-327	0	38	3	95	438	4	29	273
2.262	1	592	0	69	2	-298	0	37	3	93	498	4	28	312
2.300	1	786	0	62	2	-203	0	34	3	85	687	4	23	443
2.334	1	943	0	56	2	-124	0	31	3	80	843	4	20	532
2.350	1	1009	0	49	2	-90	0	30	3	76	901	4	17	662
2.400	1	1199	0	39	2	9	0	26	3	67	1073	4	10	827
2.450	1	1348	0	29	2	94	0	22	3	57	1202	4	3	991
2.467	1	1387	0	22	2	119	0	20	3	51	1223	4	-2	1047
2.500	1	1444	0	15	2	163	0	17	3	44	1263	4	-8	1121
2.550	1	1491	0	4	2	217	0	13	3	35	1287	4	-16	1203
2.600	1	1518	0	5	2	255	0	9	3	25	1267	4	-24	1251
2.636	1	1508	0	-1	2	274	0	6	3	20	1087	4	-30	1407
2.650	1	1500	0	-5	2	279	0	5	3	17	1065	4	-34	1412
2.700	1	1435	0	-16	2	288	0	0	3	9	973	4	-44	1380
2.733	1	1371	0	-28	2	286	0	-3	3	1	765	4	-53	1331
2.750	1	1331	0	-32	2	280	0	-5	3	-2	724	4	-58	1302
2.800	1	1171	0	-43	2	256	0	-9	3	-9	577	4	-69	1146
2.850	1	958	0	-80	2	215	0	-14	3	-13	228	4	-81	943
2.867	1	874	0	-84	2	199	0	-15	3	-15	209	4	-84	861
2.900	1	692	0	-92	2	159	0	-18	3	-18	165	4	-92	685
2.950	1	372	0	-103	2	87	0	-23	3	-22	91	4	-103	370
3.000	1	7	0	-50	2	-9	0	-71	3	-27	3	4	-113	0
3.000	1	6	0	-49	2	-10	0	-72	3	-27	2	4	-113	-3
3.000	1	-1	0	1	2	-8	0	30	3	30	-8	4	1	-1
3.231	1	0	0	1	2	-1	0	29	3	29	-1	4	1	0
4.000	1	0	0	0	2	0	0	0	3	0	0	4	0	0

----- FACTORED FORCE SUMMARY -----

STRENGTH-II PERMIT
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	MAX MOMENT				MIN MOMENT				MAX SHEAR			MIN SHEAR		
	COMB NO	M (ft-k)	COR ML (ft-k)	COR V (kips)	COMB NO	M (ft-k)	COR ML (ft-k)	COR V (kips)	COMB NO	V (kips)	COR M (ft-k)	COMB NO	V (kips)	COR M (ft-k)
0.000	7	7	0	4	8	-3	0	-2	7	4	7	8	-2	-3
0.769	7	10	0	3	6	-22	0	-36	7	3	10	6	-36	-22
1.000	7	10	0	3	6	-31	0	-37	7	3	10	6	-37	-31
1.000	5	11	0	53	6	-31	0	80	7	114	-3	8	26	4
1.000	5	12	0	58	6	-30	0	78	7	114	-1	8	26	5
1.050	5	371	0	103	6	78	0	26	7	103	368	8	21	86
1.100	5	694	0	92	6	151	0	17	7	92	686	8	17	159
1.133	5	881	0	84	6	187	0	14	7	85	869	8	13	200
1.150	5	964	0	80	6	203	0	12	7	80	949	8	12	218
1.200	5	1181	0	43	6	238	0	8	7	69	1156	8	5	735
1.250	5	1345	0	32	6	258	0	3	7	57	1310	8	-2	861
1.267	5	1389	0	25	6	260	0	1	7	51	1345	8	-4	939
1.300	5	1452	0	15	6	259	0	-2	7	43	1393	8	-9	1018
1.350	5	1706	0	5	6	245	0	-6	7	33	1429	8	-17	1086
1.366	5	1720	0	2	6	237	0	-8	7	30	1434	8	-19	1106
1.400	5	1732	0	-6	6	215	0	-11	7	23	1271	8	-25	1291
1.450	5	1707	0	-17	6	170	0	-15	7	15	1224	8	-35	1316
1.500	5	1661	0	-16	6	110	0	-19	7	7	1144	8	-45	1294
1.533	5	1602	0	-26	6	62	0	-23	7	-1	1061	8	-53	1262
1.550	5	1561	0	-31	6	34	0	-24	7	-4	1014	8	-58	1235
1.600	5	1402	0	-43	6	-58	0	-28	7	-12	848	8	-67	1108
1.650	5	1196	0	-79	6	-164	0	-32	7	-17	680	5	-79	1196
1.667	5	1117	0	-60	6	-203	0	-34	7	-19	621	8	-80	866
1.700	5	955	0	-68	6	-284	0	-36	7	-23	495	8	-87	722
1.742	5	717	0	-75	6	-399	0	-40	7	-28	327	8	-93	503
1.750	5	671	0	-78	6	-422	0	-40	7	-29	291	8	-96	464
1.800	5	364	0	-76	6	-589	0	-56	7	-35	-195	8	-105	168
1.801	5	359	0	-80	6	-593	0	-56	7	-34	-254	8	-108	167
1.850	5	36	0	-86	6	-794	0	-62	7	-37	-420	8	-117	-169
1.900	5	-278	0	-77	6	-964	0	-97	7	-40	-563	8	-125	-544
1.900	5	-281	0	-77	6	-968	0	-97	7	-40	-565	8	-125	-548
1.950	5	-546	0	-71	6	-1334	0	-114	7	-42	-703	8	-133	-946
2.000	5	-765	0	-52	6	-1753	0	-124	7	-46	-858	8	-140	-1373
2.000	5	-766	0	52	6	-1753	0	126	7	139	-1386	8	46	-841
2.050	5	-548	0	71	6	-1335	0	115	7	132	-967	8	43	-690
2.100	5	-292	0	72	6	-966	0	99	7	124	-570	8	41	-546
2.101	5	-287	0	72	6	-959	0	98	7	124	-562	8	41	-543
2.150	5	-3	0	84	6	-758	0	63	7	115	-199	8	38	-372
2.200	5	322	0	78	6	-552	0	54	7	106	140	8	35	-222
2.202	5	333	0	74	6	-545	0	55	7	103	147	8	33	129
2.250	5	628	0	78	6	-391	0	39	7	96	433	8	29	321
2.250	5	626	0	76	6	-390	0	39	7	94	429	8	28	324
2.251	5	633	0	76	6	-387	0	39	7	94	435	8	28	329
2.262	5	699	0	74	6	-357	0	38	7	92	495	8	27	370
2.300	5	909	0	66	6	-260	0	35	7	85	683	8	22	511
2.334	5	1080	0	60	6	-179	0	32	7	80	839	8	19	604
2.350	5	1151	0	52	6	-143	0	31	7	76	897	8	17	659
2.400	5	1358	0	41	6	-40	0	27	7	66	1069	8	11	823
2.450	5	1519	0	30	6	48	0	23	7	57	1197	8	3	987
2.467	5	1561	0	23	6	75	0	21	7	51	1218	8	-2	1042
2.500	5	1622	0	15	6	121	0	19	7	44	1258	8	-8	1116
2.550	5	1670	0	3	6	179	0	14	7	34	1283	8	-16	1198
2.600	5	1698	0	5	6	221	0	10	7	25	1262	8	-24	1246
2.636	5	1686	0	-1	6	243	0	7	7	19	1083	8	-30	1402
2.650	5	1676	0	-6	6	249	0	6	7	16	1061	8	-33	1406
2.700	5	1602	0	-17	6	262	0	2	7	8	970	8	-44	1375
2.733	5	1531	0	-31	6	263	0	-2	7	3	834	8	-53	1326
2.750	5	1486	0	-36	6	259	0	-4	7	0	788	8	-58	1297
2.800	5	1166	0	-43	6	238	0	-8	7	-7	621	8	-69	1142

----- FACTORED FORCE SUMMARY -----

STRENGTH-II PERMIT (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
2.850	5	955	0	-80	6	202	0	-12	7	-12	217	8	-80	940
2.867	5	870	0	-83	6	187	0	-14	7	-14	199	8	-84	858
2.900	5	689	0	-91	6	150	0	-17	7	-17	157	8	-92	682
2.950	5	370	0	-103	6	83	0	-21	7	-21	87	8	-103	368
3.000	5	8	0	-53	6	-10	0	-76	7	-26	3	8	-113	0
3.000	5	7	0	-52	6	-12	0	-77	7	-26	3	8	-113	-3
3.000	5	-1	0	1	6	-8	0	29	7	29	-8	8	1	-1
3.231	5	0	0	1	6	-1	0	34	6	34	-1	8	1	0
4.000	5	0	0	0	6	0	0	0	7	0	0	8	0	0

SERVICE-II LEGAL
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	11	5	0	3	12	-2	0	-1	11	3	5	12	-1	-2
0.769	11	7	0	2	10	-16	0	-26	11	2	7	12	-26	-10
1.000	11	7	0	2	10	-23	0	-27	11	2	7	12	-27	-16
1.000	9	8	0	41	10	-23	0	60	11	95	-3	12	22	3
1.000	9	8	0	45	10	-21	0	59	11	94	-1	12	22	3
1.050	9	306	0	85	10	65	0	21	11	85	305	12	18	71
1.100	9	574	0	76	10	126	0	14	11	76	567	12	14	131
1.133	9	729	0	70	10	156	0	12	11	71	718	12	11	165
1.150	9	797	0	66	10	169	0	10	11	67	784	12	10	180
1.200	9	977	0	35	10	200	0	7	11	57	955	12	5	558
1.250	9	1113	0	26	10	217	0	3	11	48	1082	12	0	653
1.267	9	1149	0	21	10	220	0	1	11	43	1111	12	-4	786
1.300	9	1201	0	12	10	221	0	-1	11	37	1150	12	-8	853
1.350	9	1259	0	4	10	212	0	-4	11	28	1179	12	-15	911
1.366	9	1269	0	1	10	206	0	-6	11	26	1183	12	-17	928
1.400	9	1277	0	-5	10	190	0	-8	11	20	1072	12	-22	1059
1.450	9	1258	0	-13	10	156	0	-11	11	13	1033	12	-30	1082
1.500	9	1223	0	-12	10	110	0	-15	11	7	965	12	-37	1067
1.533	9	1179	0	-20	10	73	0	-18	11	0	895	12	-45	1044
1.550	9	1148	0	-24	10	52	0	-19	11	-3	856	12	-48	1023
1.600	9	1028	0	-32	10	-20	0	-22	11	-9	716	12	-56	921
1.650	9	875	0	-59	10	-103	0	-25	11	-14	507	12	-64	783
1.667	9	816	0	-45	10	-134	0	-26	11	-16	461	12	-66	725
1.700	9	695	0	-51	10	-197	0	-28	11	-19	365	12	-71	608
1.742	9	517	0	-56	10	-287	0	-31	11	-23	237	12	-77	430
1.750	9	483	0	-58	10	-306	0	-32	11	-24	209	12	-79	399
1.800	9	253	0	-58	10	-435	0	-43	11	-28	-151	12	-86	158
1.801	9	248	0	-61	10	-438	0	-42	11	-28	-195	12	-89	158
1.850	9	4	0	-66	10	-592	0	-47	11	-30	-325	12	-96	-115
1.900	9	-235	0	-59	10	-784	0	-78	11	-32	-441	12	-102	-420
1.900	9	-237	0	-59	10	-787	0	-78	11	-32	-442	12	-103	-423
1.950	9	-442	0	-55	10	-1083	0	-92	11	-34	-555	12	-108	-747
2.000	9	-610	0	-42	10	-1421	0	-100	11	-38	-682	12	-114	-1092
2.000	9	-611	0	42	10	-1421	0	102	11	113	-1103	12	37	-669
2.050	9	-444	0	55	10	-1083	0	93	11	108	-764	12	35	-546
2.100	9	-245	0	56	10	-785	0	79	11	101	-442	12	33	-429
2.101	9	-242	0	56	10	-780	0	79	11	101	-436	12	33	-426
2.150	9	-24	0	64	10	-566	0	48	11	95	-141	12	31	-291
2.200	9	221	0	59	10	-409	0	42	11	87	135	12	28	-171
2.202	9	230	0	57	10	-403	0	42	11	85	140	12	27	83
2.250	9	451	0	58	10	-284	0	31	11	79	372	12	24	230

----- FACTORED FORCE SUMMARY -----

SERVICE-II LEGAL (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
2.250	9	450	0	57	10	-283	0	31	11	78	369	12	23	233
2.251	9	455	0	57	10	-281	0	31	11	77	374	12	23	236
2.262	9	504	0	56	10	-257	0	30	11	76	423	12	22	268
2.300	9	661	0	50	10	-181	0	28	11	70	575	12	18	376
2.334	9	788	0	45	10	-117	0	25	11	66	702	12	16	448
2.350	9	842	0	39	10	-89	0	25	11	63	749	12	13	559
2.400	9	996	0	31	10	-8	0	21	11	55	888	12	8	696
2.450	9	1116	0	23	10	61	0	18	11	47	990	12	2	833
2.467	9	1148	0	17	10	81	0	16	11	42	1006	12	-3	880
2.500	9	1193	0	11	10	117	0	14	11	37	1037	12	-7	942
2.550	9	1230	0	3	10	161	0	11	11	29	1055	12	-14	1010
2.600	9	1251	0	4	10	193	0	8	11	21	1035	12	-21	1051
2.636	9	1243	0	-1	10	209	0	5	11	17	910	12	-26	1156
2.650	9	1236	0	-4	10	214	0	4	11	14	891	12	-29	1160
2.700	9	1182	0	-13	10	222	0	1	11	8	812	12	-37	1135
2.733	9	1130	0	-23	10	221	0	-2	11	2	634	12	-45	1095
2.750	9	1096	0	-26	10	218	0	-3	11	-1	600	12	-49	1072
2.800	9	965	0	-35	10	199	0	-7	11	-6	476	12	-58	943
2.850	9	790	0	-66	10	168	0	-11	11	-10	179	12	-67	777
2.867	9	720	0	-69	10	155	0	-12	11	-11	164	12	-70	709
2.900	9	570	0	-76	10	125	0	-14	11	-14	130	12	-76	564
2.950	9	306	0	-85	10	68	0	-18	11	-18	71	12	-85	305
3.000	9	6	0	-41	10	-8	0	-57	11	-21	2	12	-93	0
3.000	9	5	0	-40	10	-9	0	-58	11	-21	2	12	-93	-2
3.000	9	-1	0	1	10	-7	0	25	11	25	-7	12	1	-1
3.231	9	0	0	1	10	0	0	25	11	25	0	12	1	0
4.000	9	0	0	0	10	0	0	0	11	0	0	12	0	0

SERVICE-II PERMIT
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	15	4	0	2	16	-2	0	-1	15	2	4	16	-1	-2
0.769	15	5	0	1	14	-12	0	-20	15	1	5	16	-20	-8
1.000	15	5	0	1	14	-18	0	-21	15	1	5	16	-21	-13
1.000	13	6	0	38	14	-18	0	54	15	81	-2	16	23	2
1.000	13	7	0	41	14	-17	0	53	15	81	-1	16	23	3
1.050	13	262	0	73	14	71	0	22	15	73	261	16	19	75
1.100	13	490	0	64	14	135	0	16	15	65	485	16	15	140
1.133	13	623	0	59	14	169	0	13	15	59	615	16	13	176
1.150	13	681	0	56	14	184	0	12	15	56	671	16	12	192
1.200	13	835	0	31	14	219	0	8	15	48	818	16	7	495
1.250	13	951	0	23	14	242	0	5	15	40	927	16	2	577
1.267	13	981	0	18	14	246	0	3	15	35	952	16	-1	682
1.300	13	1026	0	11	14	250	0	0	15	30	986	16	-5	736
1.350	13	1074	0	3	14	245	0	-3	15	22	1012	16	-11	784
1.366	13	1082	0	1	14	241	0	-4	15	20	1015	16	-13	797
1.400	13	1088	0	-4	14	228	0	-7	15	15	907	16	-17	920
1.450	13	1069	0	-12	14	199	0	-10	15	9	873	16	-24	934
1.500	13	1035	0	-12	14	158	0	-13	15	3	815	16	-31	915
1.533	13	994	0	-19	14	124	0	-16	15	-3	756	16	-38	890
1.550	13	966	0	-22	14	104	0	-17	15	-5	722	16	-41	870
1.600	13	859	0	-30	14	36	0	-21	15	-11	603	16	-48	776
1.650	13	722	0	-51	14	-43	0	-24	15	-16	426	16	-55	652
1.667	13	670	0	-41	14	-72	0	-25	15	-17	386	16	-57	600
1.700	13	562	0	-46	14	-133	0	-27	15	-20	300	16	-62	495

----- FACTORED FORCE SUMMARY -----

SERVICE-II PERMIT (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC		MAX MOMENT				MIN MOMENT				MAX SHEAR				MIN SHEAR			
FRAC	COMB	M	COR ML	COR V	COMB	M	COR ML	COR V	COMB	V	COR M	COMB	V	COR M			
	NO	(ft-k)	(ft-k)	(kips)	NO	(ft-k)	(ft-k)	(kips)	NO	(kips)	(ft-k)	NO	(kips)	(ft-k)			
1.742	13	403	0	-51	14	-219	0	-30	15	-24	184	16	-67	337			
1.750	13	373	0	-53	14	-237	0	-31	15	-25	159	16	-69	308			
1.800	13	169	0	-52	14	-362	0	-42	15	-29	-141	16	-75	94			
1.801	13	165	0	-54	14	-365	0	-42	15	-29	-175	16	-77	93			
1.850	13	-48	0	-59	14	-516	0	-46	15	-31	-302	16	-84	-150			
1.900	13	-261	0	-54	14	-701	0	-71	15	-34	-420	16	-90	-421			
1.900	13	-263	0	-54	14	-703	0	-71	15	-34	-421	16	-90	-423			
1.950	13	-452	0	-52	14	-971	0	-83	15	-36	-540	16	-95	-712			
2.000	13	-616	0	-42	14	-1274	0	-90	15	-39	-671	16	-100	-1021			
2.000	13	-617	0	42	14	-1275	0	91	15	100	-1030	16	39	-662			
2.050	13	-454	0	52	14	-971	0	83	15	95	-726	16	37	-533			
2.100	13	-270	0	52	14	-702	0	72	15	89	-438	16	34	-411			
2.101	13	-266	0	52	14	-698	0	72	15	89	-433	16	34	-409			
2.150	13	-71	0	57	14	-497	0	47	15	83	-170	16	31	-276			
2.200	13	144	0	53	14	-344	0	41	15	76	75	16	29	-158			
2.202	13	151	0	50	14	-338	0	41	15	74	80	16	28	38			
2.250	13	347	0	53	14	-222	0	30	15	68	286	16	24	174			
2.250	13	346	0	52	14	-221	0	30	15	67	283	16	24	176			
2.251	13	350	0	52	14	-219	0	30	15	67	288	16	24	179			
2.262	13	394	0	50	14	-196	0	29	15	66	331	16	23	208			
2.300	13	533	0	45	14	-122	0	27	15	61	468	16	20	306			
2.334	13	647	0	41	14	-61	0	24	15	57	580	16	17	374			
2.350	13	694	0	36	14	-34	0	24	15	54	623	16	15	464			
2.400	13	831	0	29	14	43	0	20	15	47	748	16	10	584			
2.450	13	939	0	21	14	108	0	17	15	40	842	16	4	702			
2.467	13	968	0	17	14	128	0	15	15	36	859	16	1	742			
2.500	13	1010	0	11	14	161	0	13	15	31	889	16	-4	795			
2.550	13	1045	0	4	14	200	0	10	15	24	910	16	-9	854			
2.600	13	1065	0	4	14	229	0	6	15	17	899	16	-15	888			
2.636	13	1059	0	-1	14	241	0	4	15	13	780	16	-20	992			
2.650	13	1054	0	-4	14	245	0	3	15	11	766	16	-22	996			
2.700	13	1009	0	-11	14	249	0	-1	15	5	703	16	-30	973			
2.733	13	965	0	-20	14	245	0	-4	15	0	562	16	-37	938			
2.750	13	936	0	-23	14	240	0	-5	15	-3	534	16	-40	917			
2.800	13	824	0	-31	14	217	0	-8	15	-8	430	16	-48	807			
2.850	13	674	0	-56	14	182	0	-12	15	-12	190	16	-56	664			
2.867	13	615	0	-58	14	167	0	-13	15	-13	174	16	-59	607			
2.900	13	487	0	-64	14	134	0	-15	15	-15	138	16	-64	482			
2.950	13	261	0	-72	14	73	0	-19	15	-19	75	16	-73	260			
3.000	13	4	0	-38	14	-6	0	-51	15	-23	2	16	-80	0			
3.000	13	4	0	-37	14	-7	0	-53	15	-23	1	16	-80	-2			
3.000	13	-1	0	1	14	-5	0	20	15	20	-5	16	1	-1			
3.231	13	0	0	1	14	0	0	19	15	19	0	16	1	0			
4.000	13	0	0	0	14	0	0	0	15	0	0	16	0	0			

FATIGUE-INFINITE
 ONE LANE WITH IMPACT
 LL CASE: 3 NAME: HL-93-ED

SPAN.LOC FRAC	DEAD LOAD				LIVE LOAD							
	ADL MOM (ft-k)	ADL M LAT (ft-k)	BDL+DW MOM (ft-k)	BDL+DW M LAT (ft-k)	LOAD COMB NO	LL CASE NO	MAX MOM (ft-k)	CORR M LAT (ft-k)	LOAD COMB NO	LL CASE NO	MIN MOM (ft-k)	CORR M LAT (ft-k)
0.000	0	0	0	0	1	3	2	0	2	3	-1	0
0.769	0	0	0	0	1	3	2	0	2	3	-12	0
1.000	-1	0	0	0	1	3	3	0	2	3	-17	0
1.000	-1	0	0	0	1	3	3	0	2	3	-17	0
1.000	0	0	0	0	1	3	3	0	2	3	-17	0
1.050	80	0	34	0	1	3	103	0	2	3	-14	0

----- FACTORED FORCE SUMMARY -----

FATIGUE-INFINITE (Cont'd)

ONE LANE WITH IMPACT

LL CASE: 3 NAME: HL-93-ED

SPAN.LOC FRAC	DEAD LOAD				LIVE LOAD							
	ADL MOM (ft-k)	ADL M LAT (ft-k)	BDL+DW MOM (ft-k)	BDL+DW M LAT (ft-k)	LOAD COMB NO	LL CASE NO	MAX MOM (ft-k)	CORR M LAT (ft-k)	LOAD COMB NO	LL CASE NO	MIN MOM (ft-k)	CORR M LAT (ft-k)
1.100	149	0	64	0	1	3	191	0	2	3	-17	0
1.133	189	0	81	0	1	3	241	0	2	3	-22	0
1.150	207	0	89	0	1	3	262	0	2	3	-25	0
1.200	252	0	109	0	1	3	315	0	2	3	-33	0
1.250	286	0	124	0	1	3	359	0	2	3	-42	0
1.267	295	0	128	0	1	3	373	0	2	3	-45	0
1.300	308	0	134	0	1	3	391	0	2	3	-50	0
1.350	317	0	140	0	1	3	406	0	2	3	-59	0
1.366	317	0	141	0	1	3	408	0	2	3	-62	0
1.400	315	0	142	0	1	3	407	0	2	3	-68	0
1.450	302	0	138	0	1	3	396	0	2	3	-77	0
1.500	278	0	130	0	1	3	384	0	2	3	-86	0
1.533	257	0	122	0	1	3	388	0	2	3	-93	0
1.550	243	0	117	0	1	3	386	0	2	3	-96	0
1.600	195	0	100	0	1	3	370	0	2	3	-106	0
1.650	136	0	78	0	1	3	340	0	2	3	-116	0
1.667	113	0	69	0	1	3	327	0	2	3	-119	0
1.700	67	0	51	0	1	3	298	0	2	3	-126	0
1.742	0	0	25	0	1	3	252	0	2	3	-135	0
1.750	-13	0	19	0	1	3	244	0	2	3	-137	0
1.800	-104	0	-17	0	1	3	185	0	2	3	-147	0
1.801	-106	0	-18	0	1	3	184	0	2	3	-148	0
1.850	-206	0	-58	0	1	3	115	0	2	3	-159	0
1.900	-319	0	-104	0	1	3	65	0	2	3	-170	0
1.900	-320	0	-105	0	1	3	65	0	2	3	-170	0
1.950	-442	0	-155	0	1	3	29	0	2	3	-182	0
2.000	-575	0	-211	0	1	3	11	0	2	3	-209	0
2.000	-575	0	-211	0	1	3	10	0	2	3	-209	0
2.050	-443	0	-155	0	1	3	28	0	2	3	-170	0
2.100	-321	0	-104	0	1	3	61	0	2	3	-156	0
2.101	-319	0	-103	0	1	3	61	0	2	3	-156	0
2.150	-210	0	-58	0	1	3	108	0	2	3	-145	0
2.200	-109	0	-17	0	1	3	170	0	2	3	-135	0
2.202	-106	0	-16	0	1	3	172	0	2	3	-134	0
2.250	-20	0	19	0	1	3	231	0	2	3	-125	0
2.250	-20	0	19	0	1	3	230	0	2	3	-124	0
2.251	-18	0	20	0	1	3	232	0	2	3	-124	0
2.262	0	0	27	0	1	3	244	0	2	3	-122	0
2.300	58	0	51	0	1	3	284	0	2	3	-115	0
2.334	106	0	70	0	1	3	315	0	2	3	-108	0
2.350	127	0	77	0	1	3	327	0	2	3	-105	0
2.400	185	0	99	0	1	3	358	0	2	3	-96	0
2.450	233	0	117	0	1	3	375	0	2	3	-87	0
2.467	246	0	121	0	1	3	377	0	2	3	-84	0
2.500	268	0	129	0	1	3	375	0	2	3	-79	0
2.550	291	0	138	0	1	3	387	0	2	3	-70	0
2.600	304	0	141	0	1	3	399	0	2	3	-62	0
2.636	307	0	141	0	1	3	400	0	2	3	-56	0
2.650	307	0	140	0	1	3	399	0	2	3	-54	0
2.700	298	0	134	0	1	3	386	0	2	3	-46	0
2.733	287	0	127	0	1	3	367	0	2	3	-41	0
2.750	278	0	123	0	1	3	355	0	2	3	-38	0
2.800	245	0	108	0	1	3	313	0	2	3	-31	0
2.850	201	0	88	0	1	3	261	0	2	3	-23	0
2.867	183	0	81	0	1	3	239	0	2	3	-21	0
2.900	145	0	64	0	1	3	191	0	2	3	-16	0
2.950	78	0	34	0	1	3	105	0	2	3	-8	0
3.000	0	0	0	0	1	3	2	0	2	3	-6	0
3.000	0	0	0	0	1	3	2	0	2	3	-6	0

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----- FACTORED FORCE SUMMARY -----

FATIGUE-INFINITE (Cont'd)

ONE LANE WITH IMPACT

LL CASE: 3 NAME: HL-93-ED

SPAN.LOC FRAC	DEAD LOAD				LIVE LOAD							
	ADL	ADL	BDL+DW	BDL+DW	LOAD	LL	MAX	CORR	LOAD	LL	MIN	CORR
	MOM	M LAT	MOM	M LAT	COMB	CASE	MOM	M LAT	COMB	CASE	MOM	M LAT
	(ft-k)	(ft-k)	(ft-k)	(ft-k)	NO	NO	(ft-k)	(ft-k)	NO	NO	(ft-k)	(ft-k)
3.000	-1	0	0	0	1	3	0	0	2	3	-5	0
3.231	0	0	0	0	1	3	0	0	2	3	0	0
4.000	0	0	0	0	1	3	0	0	2	3	0	0

FATIGUE-FINITE

ONE LANE WITH IMPACT

LL CASE: 3 NAME: HL-93-ED

SPAN.LOC FRAC	DEAD LOAD				LIVE LOAD							
	ADL	ADL	BDL+DW	BDL+DW	LOAD	LL	MAX	CORR	LOAD	LL	MIN	CORR
	MOM	M LAT	MOM	M LAT	COMB	CASE	MOM	M LAT	COMB	CASE	MOM	M LAT
	(ft-k)	(ft-k)	(ft-k)	(ft-k)	NO	NO	(ft-k)	(ft-k)	NO	NO	(ft-k)	(ft-k)
0.000	0	0	0	0	3	3	1	0	4	3	-1	0
0.769	0	0	0	0	3	3	1	0	4	3	-6	0
1.000	-1	0	0	0	3	3	1	0	4	3	-9	0
1.000	-1	0	0	0	3	3	1	0	4	3	-9	0
1.000	0	0	0	0	3	3	1	0	4	3	-8	0
1.050	80	0	34	0	3	3	52	0	4	3	-7	0
1.100	149	0	64	0	3	3	96	0	4	3	-8	0
1.133	189	0	81	0	3	3	121	0	4	3	-11	0
1.150	207	0	89	0	3	3	131	0	4	3	-12	0
1.200	252	0	109	0	3	3	158	0	4	3	-17	0
1.250	286	0	124	0	3	3	180	0	4	3	-21	0
1.267	295	0	128	0	3	3	186	0	4	3	-22	0
1.300	308	0	134	0	3	3	196	0	4	3	-25	0
1.350	317	0	140	0	3	3	203	0	4	3	-30	0
1.366	317	0	141	0	3	3	204	0	4	3	-31	0
1.400	315	0	142	0	3	3	204	0	4	3	-34	0
1.450	302	0	138	0	3	3	198	0	4	3	-39	0
1.500	278	0	130	0	3	3	192	0	4	3	-43	0
1.533	257	0	122	0	3	3	194	0	4	3	-46	0
1.550	243	0	117	0	3	3	193	0	4	3	-48	0
1.600	195	0	100	0	3	3	185	0	4	3	-53	0
1.650	136	0	78	0	3	3	170	0	4	3	-58	0
1.667	113	0	69	0	3	3	163	0	4	3	-60	0
1.700	67	0	51	0	3	3	149	0	4	3	-63	0
1.742	0	0	25	0	3	3	126	0	4	3	-67	0
1.750	-13	0	19	0	3	3	122	0	4	3	-68	0
1.800	-104	0	-17	0	3	3	92	0	4	3	-74	0
1.801	-106	0	-18	0	3	3	92	0	4	3	-74	0
1.850	-206	0	-58	0	3	3	57	0	4	3	-79	0
1.900	-319	0	-104	0	3	3	33	0	4	3	-85	0
1.900	-320	0	-105	0	3	3	32	0	4	3	-85	0
1.950	-442	0	-155	0	3	3	15	0	4	3	-91	0
2.000	-575	0	-211	0	3	3	5	0	4	3	-104	0
2.000	-575	0	-211	0	3	3	5	0	4	3	-105	0
2.050	-443	0	-155	0	3	3	14	0	4	3	-85	0
2.100	-321	0	-104	0	3	3	30	0	4	3	-78	0
2.101	-319	0	-103	0	3	3	31	0	4	3	-78	0
2.150	-210	0	-58	0	3	3	54	0	4	3	-73	0
2.200	-109	0	-17	0	3	3	85	0	4	3	-67	0
2.202	-106	0	-16	0	3	3	86	0	4	3	-67	0
2.250	-20	0	19	0	3	3	116	0	4	3	-62	0
2.250	-20	0	19	0	3	3	115	0	4	3	-62	0
2.251	-18	0	20	0	3	3	116	0	4	3	-62	0
2.262	0	0	27	0	3	3	122	0	4	3	-61	0
2.300	58	0	51	0	3	3	142	0	4	3	-57	0
2.334	106	0	70	0	3	3	158	0	4	3	-54	0
2.350	127	0	77	0	3	3	163	0	4	3	-53	0
2.400	185	0	99	0	3	3	179	0	4	3	-48	0

----- FACTORED FORCE SUMMARY -----

FATIGUE-FINITE (Cont'd)
 ONE LANE WITH IMPACT
 LL CASE: 3 NAME: HL-93-ED

SPAN.LOC FRAC	DEAD LOAD				LIVE LOAD							
	ADL	ADL	BDL+DW	BDL+DW	LOAD	LL	MAX	CORR	LOAD	LL	MIN	CORR
	MOM (ft-k)	M LAT (ft-k)	MOM (ft-k)	M LAT (ft-k)	COMB NO	CASE NO	MOM (ft-k)	M LAT (ft-k)	COMB NO	CASE NO	MOM (ft-k)	M LAT (ft-k)
2.450	233	0	117	0	3	3	188	0	4	3	-44	0
2.467	246	0	121	0	3	3	189	0	4	3	-42	0
2.500	268	0	129	0	3	3	187	0	4	3	-39	0
2.550	291	0	138	0	3	3	194	0	4	3	-35	0
2.600	304	0	141	0	3	3	200	0	4	3	-31	0
2.636	307	0	141	0	3	3	200	0	4	3	-28	0
2.650	307	0	140	0	3	3	200	0	4	3	-27	0
2.700	298	0	134	0	3	3	193	0	4	3	-23	0
2.733	287	0	127	0	3	3	183	0	4	3	-20	0
2.750	278	0	123	0	3	3	178	0	4	3	-19	0
2.800	245	0	108	0	3	3	156	0	4	3	-15	0
2.850	201	0	88	0	3	3	130	0	4	3	-12	0
2.867	183	0	81	0	3	3	119	0	4	3	-10	0
2.900	145	0	64	0	3	3	96	0	4	3	-8	0
2.950	78	0	34	0	3	3	52	0	4	3	-4	0
3.000	0	0	0	0	3	3	1	0	4	3	-3	0
3.000	0	0	0	0	3	3	1	0	4	3	-3	0
3.000	-1	0	0	0	3	3	0	0	4	3	-2	0
3.231	0	0	0	0	3	3	0	0	4	3	0	0
4.000	0	0	0	0	3	3	0	0	4	3	0	0

----- FINAL RATING RESULTS - SUMMARY OF GIRDER RESULTS -----

RATING CODES
 CODE 0 None
 CODE 4 Moment
 CODE 5 Shear
 CODE 6 Interaction

LL CASE NUMBER: 1 LL CASE NAME: HL-93-ED
 TOTAL AXLE WEIGHT = 36.000 (Tons)

LOADING CONDITION: MULTIPLE LANE WITH IMPACT
 SPAN LOC. = 2.000 INVENTORY STRENGTH RATING = Factor 2.31836 Tons 83.461 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 571.190 4.820
 MIN MOMENT CORRESPONDING SHEAR = -10135.833 -35.703
 MAX SHEAR CORRESPONDING MOMENT = 11.811 -966.983
 MIN SHEAR CORRESPONDING MOMENT = -102.362 -6547.897
 SPAN LOC. = 2.000 OPERATING STRENGTH RATING = Factor 3.00586 Tons 108.211 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 740.574 6.250
 MIN MOMENT CORRESPONDING SHEAR = -13141.573 -46.290
 MAX SHEAR CORRESPONDING MOMENT = 15.313 -1253.737
 MIN SHEAR CORRESPONDING MOMENT = -132.717 -8489.649
 SPAN LOC. = 2.000 INVENTORY SERVICABILITY RATING = Factor 2.32227 Tons 83.602 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 572.153 4.829
 MIN MOMENT CORRESPONDING SHEAR = -10152.911 -35.763
 MAX SHEAR CORRESPONDING MOMENT = 11.830 -968.612
 MIN SHEAR CORRESPONDING MOMENT = -102.535 -6558.930
 SPAN LOC. = 2.000 OPERATING SERVICABILITY RATING = Factor 3.01953 Tons 108.703 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 743.943 6.278
 MIN MOMENT CORRESPONDING SHEAR = -13201.346 -46.501
 MAX SHEAR CORRESPONDING MOMENT = 15.383 -1259.440
 MIN SHEAR CORRESPONDING MOMENT = -133.321 -8528.264

LL CASE NUMBER: 2 LL CASE NAME: HL-93-ED
 TOTAL AXLE WEIGHT = 36.000 (Tons)

LOADING CONDITION: MULTIPLE LANE WITH IMPACT

RUN TIME: 05/09/2014 15:14:23.776 OUTPUT
 Filename: M:\jobs\46583...\300...\330...\TechProd\Load Ratings\Analysis\2771-Six Mile Falls\BDGS\SteelDsn-GRID\S1.OUT

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SPAN LOC. = 2.000 LEGAL TK STRENGTH RATING = Factor 2.68750 Tons 96.750 CODE 4
MAX MOMENT CORRESPONDING SHEAR = 662.138 5.588
MIN MOMENT CORRESPONDING SHEAR = -11749.711 -41.387
MAX SHEAR CORRESPONDING MOMENT = 13.691 -1120.950
MIN SHEAR CORRESPONDING MOMENT = -118.661 -7590.486
SPAN LOC. = 2.600 PERMIT TK STRENGTH RATING = Factor 2.46094 Tons 88.594 CODE 4
MAX MOMENT CORRESPONDING SHEAR = 18303.720 2.725
MIN MOMENT CORRESPONDING SHEAR = -3455.535 10.028
MAX SHEAR CORRESPONDING MOMENT = 35.209 13392.725
MIN SHEAR CORRESPONDING MOMENT = -43.789 16022.956
SPAN LOC. = 2.000 LEGAL TK SERVICE RATING = Factor 2.32227 Tons 83.602 CODE 4
MAX MOMENT CORRESPONDING SHEAR = 572.153 4.829
MIN MOMENT CORRESPONDING SHEAR = -10152.911 -35.763
MAX SHEAR CORRESPONDING MOMENT = 11.830 -968.612
MIN SHEAR CORRESPONDING MOMENT = -102.535 -6558.930
SPAN LOC. = 2.000 PERMIT TK SERVICE RATING = Factor 3.01953 Tons 108.703 CODE 4
MAX MOMENT CORRESPONDING SHEAR = 743.943 6.278
MIN MOMENT CORRESPONDING SHEAR = -13201.346 -46.501
MAX SHEAR CORRESPONDING MOMENT = 15.383 -1259.440
MIN SHEAR CORRESPONDING MOMENT = -133.321 -8528.264
  
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LL CASE NUMBER: 3 LL CASE NAME: HL-93-ED
 TOTAL AXLE WEIGHT = 36.000 (Tons)

LOADING CONDITION: ONE LANE WITH IMPACT

----- DIAPHRAGM AND STIFFENER SPACING SUMMARY -----

SPAN.LOC	DISTANCE	---- INPUT SPACING ----	
		DIAPHRAGM	STIFFENER
FRAC	(ft)	(ft)	(in)
0.000	0.000	1.083	13.000
0.769	0.833	1.083	13.000
1.000	1.083	1.083	13.000
1.000	1.083	18.667	224.000
1.000	1.104	18.667	224.000
1.050	4.583	18.667	224.000
1.100	8.083	18.667	224.000
1.133	10.417	18.667	224.000
1.150	11.583	18.667	224.000
1.200	15.083	18.667	224.000
1.250	18.583	18.667	224.000
1.267	19.750	18.667	224.000
1.300	22.083	18.667	224.000
1.350	25.583	18.667	224.000
1.366	26.733	18.667	224.000
1.400	29.083	18.667	224.000
1.450	32.583	18.667	224.000
1.500	36.083	18.667	224.000
1.533	38.417	18.736	224.829
1.550	39.583	18.736	224.829
1.600	43.083	18.736	224.829
1.650	46.583	18.736	224.829
1.667	47.785	18.736	224.829
1.700	50.083	18.736	224.829
1.742	53.028	18.736	224.829
1.750	53.583	18.736	224.829
1.800	57.083	18.736	224.829
1.801	57.152	13.931	167.171
1.850	60.583	13.931	167.171
1.900	64.083	13.931	167.171
1.900	64.118	13.931	167.171
1.950	67.583	13.931	167.171
2.000	71.083	13.931	167.171
2.000	71.083	14.130	169.561
2.050	74.583	14.130	169.561
2.100	78.083	14.130	169.561
2.101	78.148	14.130	169.561
2.150	81.583	14.130	169.561

----- DIAPHRAGM AND STIFFENER SPACING SUMMARY -----

SPAN.LOC FRAC	DISTANCE (ft)	---- INPUT SPACING ----	
		DIAPHRAGM (ft)	STIFFENER (in)
2.200	85.083	14.130	169.561
2.202	85.213	18.537	222.439
2.250	88.583	18.537	222.439
2.251	88.664	18.537	222.439
2.262	89.439	18.537	222.439
2.300	92.083	18.537	222.439
2.334	94.482	18.537	222.439
2.350	95.583	18.537	222.439
2.400	99.083	18.537	222.439
2.450	102.583	18.537	222.439
2.467	103.750	18.667	224.000
2.500	106.083	18.667	224.000
2.550	109.583	18.667	224.000
2.600	113.083	18.667	224.000
2.636	115.599	18.667	224.000
2.650	116.583	18.667	224.000
2.700	120.083	18.667	224.000
2.733	122.417	18.667	224.000
2.750	123.583	18.667	224.000
2.800	127.083	18.667	224.000
2.850	130.583	18.667	224.000
2.867	131.750	18.667	224.000
2.900	134.083	18.667	224.000
2.950	137.583	18.667	224.000
3.000	141.063	18.667	224.000
3.000	141.083	18.667	224.000
3.000	141.083	1.083	13.000
3.231	141.333	1.083	13.000

----- LRFR RATING SUMMARY -----

LL CASE NUMBER: 1
 LL PATTERN: HL-93-ED
 COMBINATION TABLE: LRFR2009 STANDARD (Default)
 LANE POSITION: MULTIPLE LANE WITH IMPACT

CONTROLLING RATING CODES: M = MOMENT
 V = SHEAR
 << = CONTROLLING LOCATION
 * = DEFICIENT

SPAN.LOC FRAC	DISTANCE (ft)	----- STRENGTH -----				----- SERVICE -----			
		INVENTORY	OPERATING	LEGAL	PERMIT	INVENTORY	OPERATING	LEGAL	PERMIT
0.000	0.000	10.000	10.000			10.000	10.000		
0.769	0.833	10.000	10.000			10.000	10.000		
1.000	1.083	10.000	10.000			10.000	10.000		
1.000	1.083	7.449	V	9.656	V	10.000	10.000		
1.000	1.104	7.477	V	9.693	V	10.000	10.000		
1.050	4.583	8.018	V	10.000		10.000	10.000		
1.100	8.083	7.381	M	9.566	M	7.807	M	10.000	
1.133	10.417	5.697	M	7.385	M	5.994	M	7.793	M
1.150	11.583	5.129	M	6.648	M	5.383	M	6.998	M
1.200	15.083	4.066	M	5.270	M	4.242	M	5.516	M
1.250	18.583	3.486	M	4.520	M	3.621	M	4.709	M
1.267	19.750	3.363	M	4.359	M	3.490	M	4.537	M
1.300	22.083	3.178	M	4.119	M	3.295	M	4.283	M
1.350	25.583	2.984	M	3.867	M	3.096	M	4.023	M
1.366	26.733	2.951	M	3.824	M	3.062	M	3.980	M
1.400	29.083	2.906	M	3.768	M	3.021	M	3.928	M
1.450	32.583	2.928	M	3.797	M	3.059	M	3.977	M
1.500	36.083	2.969	M	3.850	M	3.121	M	4.057	M
1.533	38.417	3.055	M	3.959	M	3.227	M	4.195	M
1.550	39.583	3.123	M	4.047	M	3.309	M	4.303	M
1.600	43.083	3.430	M	4.445	M	3.670	M	4.771	M
1.650	46.583	3.918	M	5.080	M	4.240	M	5.512	M
1.667	47.785	4.135	M	5.361	M	4.492	M	5.840	M
1.700	50.083	4.643	M	6.018	M	5.080	M	6.605	M
1.742	53.028	5.619	M	7.285	M	6.213	M	8.076	M

----- LRFR RATING SUMMARY -----

LL CASE NUMBER: 1 CONTROLLING RATING CODES: M = MOMENT
 LL PATTERN: HL-93-ED V = SHEAR
 COMBINATION TABLE: LRFR2009 STANDARD (Default) < = CONTROLLING LOCATION
 LANE POSITION: MULTIPLE LANE WITH IMPACT (Cont'd) * = DEFICIENT

SPAN.LOC	DISTANCE	STRENGTH				SERVICE			
FRAC	(ft)	INVENTORY	OPERATING	LEGAL	PERMIT	INVENTORY	OPERATING	LEGAL	PERMIT
1.750	53.583	5.840 M	7.570 M			6.467 M	8.408 M		
1.800	57.083	6.748 M	8.746 M			6.967 M	9.057 M		
1.801	57.152	6.732 M	8.727 M			6.951 M	9.035 M		
1.850	60.583	6.035 M	7.822 M			6.201 M	8.061 M		
1.900	64.083	5.035 M	6.527 M			5.143 M	6.684 M		
1.900	64.118	5.025 M	6.516 M			5.133 M	6.672 M		
1.950	67.583	3.402 M	4.410 M			3.445 M	4.480 M		
2.000	71.083	2.318< M	3.006< M			2.322< M	3.020< M		
2.000	71.083	2.318< M	3.006< M			2.322< M	3.020< M		
2.050	74.583	3.412 M	4.424 M			3.457 M	4.494 M		
2.100	78.083	5.064 M	6.564 M			5.172 M	6.723 M		
2.101	78.148	5.102 M	6.615 M			5.211 M	6.773 M		
2.150	81.583	6.629 M	8.594 M			6.811 M	8.854 M		
2.200	85.083	7.465 M	9.676 M			7.703 M	10.000		
2.202	85.213	7.508 M	9.732 M			7.750 M	10.000		
2.250	88.583	4.539 M	5.885 M			5.811 M	7.553 M		
2.251	88.664	5.367 M	6.957 M			5.771 M	7.502 M		
2.262	89.439	5.053 M	6.549 M			5.420 M	7.047 M		
2.300	92.083	4.215 M	5.465 M			4.465 M	5.805 M		
2.334	94.482	3.707 M	4.807 M			3.881 M	5.045 M		
2.350	95.583	3.514 M	4.555 M			3.660 M	4.758 M		
2.400	99.083	3.047 M	3.951 M			3.123 M	4.061 M		
2.450	102.583	2.754 M	3.570 M			2.781 M	3.615 M		
2.467	103.750	2.688 M	3.484 M			2.703 M	3.514 M		
2.500	106.083	2.604 M	3.375 M			2.598 M	3.377 M		
2.550	109.583	2.557 M	3.314 M			2.527 M	3.285 M		
2.600	113.083	2.531 M	3.281 M			2.486 M	3.232 M		
2.636	115.599	2.570 M	3.332 M			2.518 M	3.273 M		
2.650	116.583	2.594 M	3.361 M			2.539 M	3.301 M		
2.700	120.083	2.760 M	3.578 M			2.701 M	3.514 M		
2.733	122.417	2.924 M	3.791 M			2.867 M	3.729 M		
2.750	123.583	3.033 M	3.932 M			2.980 M	3.875 M		
2.800	127.083	3.539 M	4.588 M			3.504 M	4.555 M		
2.850	130.583	4.467 M	5.791 M			4.467 M	5.807 M		
2.867	131.750	4.967 M	6.438 M			4.984 M	6.479 M		
2.900	134.083	6.436 M	8.344 M			6.512 M	8.467 M		
2.950	137.583	7.424 V	9.623 V			10.000	10.000		
3.000	141.063	6.914 V	8.963 V			10.000	10.000		
3.000	141.083	6.914 V	8.963 V			10.000	10.000		
3.000	141.083	10.000	10.000			10.000	10.000		
3.231	141.333	10.000	10.000			10.000	10.000		

**CONTROLLING
RATING FOR
EXTERIOR GIRDER**

LL CASE NUMBER: 2 CONTROLLING RATING CODES: M = MOMENT
 LL PATTERN: HL-93-ED V = SHEAR
 COMBINATION TABLE: LRFR2009 LEGAL & PERMIT (Default) < = CONTROLLING LOCATION
 LANE POSITION: MULTIPLE LANE WITH IMPACT * = DEFICIENT

SPAN.LOC	DISTANCE	STRENGTH				SERVICE			
FRAC	(ft)	INVENTORY	OPERATING	LEGAL	PERMIT	INVENTORY	OPERATING	LEGAL	PERMIT
0.000	0.000			10.000	10.000			10.000	10.000
0.769	0.833			10.000	10.000			10.000	10.000
1.000	1.083			10.000	10.000			10.000	10.000
1.000	1.083			8.635 V	8.689 V			10.000	10.000
1.000	1.104			8.668 V	8.723 V			10.000	10.000
1.050	4.583			9.295 V	9.354 V			10.000	10.000
1.100	8.083			8.555 M	8.609 M			7.807 M	10.000
1.133	10.417			6.604 M	6.646 M			5.994 M	7.793 M
1.150	11.583			5.943 M	5.982 M			5.383 M	6.998 M

----- LRFR RATING SUMMARY -----

LL CASE NUMBER: 2

LL PATTERN: HL-93-ED

COMBINATION TABLE: LRFR2009 LEGAL & PERMIT (Default

LANE POSITION: MULTIPLE LANE WITH IMPACT (Cont'd)

CONTROLLING RATING CODES: M = MOMENT

V = SHEAR

« = CONTROLLING LOCATION

* = DEFICIENT

SPAN.LOC FRAC	DISTANCE (ft)	STRENGTH				SERVICE			
		INVENTORY	OPERATING	LEGAL	PERMIT	INVENTORY	OPERATING	LEGAL	PERMIT
1.200	15.083			4.713 M	4.744 M			4.242 M	5.516 M
1.250	18.583			4.041 M	4.066 M			3.621 M	4.709 M
1.267	19.750			3.898 M	3.924 M			3.490 M	4.537 M
1.300	22.083			3.684 M	3.707 M			3.295 M	4.283 M
1.350	25.583			3.459 M	2.904 M			3.096 M	4.023 M
1.366	26.733			3.420 M	2.869 M			3.062 M	3.980 M
1.400	29.083			3.369 M	2.826 M			3.021 M	3.928 M
1.450	32.583			3.395 M	2.848 M			3.059 M	3.977 M
1.500	36.083			3.441 M	2.887 M			3.121 M	4.057 M
1.533	38.417			3.539 M	2.969 M			3.227 M	4.195 M
1.550	39.583			3.619 M	3.035 M			3.309 M	4.303 M
1.600	43.083			3.975 M	3.334 M			3.670 M	4.771 M
1.650	46.583			4.543 M	3.811 M			4.240 M	5.512 M
1.667	47.785			4.793 M	4.020 M			4.492 M	5.840 M
1.700	50.083			5.381 M	4.512 M			5.080 M	6.605 M
1.742	53.028			6.514 M	5.463 M			6.213 M	8.076 M
1.750	53.583			6.770 M	5.678 M			6.467 M	8.408 M
1.800	57.083			7.822 M	6.561 M			6.967 M	9.057 M
1.801	57.152			7.805 M	6.545 M			6.951 M	9.035 M
1.850	60.583			6.994 M	5.867 M			6.201 M	8.061 M
1.900	64.083			5.836 M	5.873 M			5.143 M	6.684 M
1.900	64.118			5.826 M	5.863 M			5.133 M	6.672 M
1.950	67.583			3.943 M	3.969 M			3.445 M	4.480 M
2.000	71.083			2.688« M	2.705 M			2.322« M	3.020« M
2.000	71.083			2.688« M	2.705 M			2.322« M	3.020« M
2.050	74.583			3.955 M	3.980 M			3.457 M	4.494 M
2.100	78.083			5.871 M	5.908 M			5.172 M	6.723 M
2.101	78.148			5.914 M	5.953 M			5.211 M	6.773 M
2.150	81.583			7.684 M	6.445 M			6.811 M	8.854 M
2.200	85.083			8.652 M	7.256 M			7.703 M	10.000
2.202	85.213			8.701 M	7.299 M			7.750 M	10.000
2.250	88.583			5.262 M	4.414 M			5.811 M	7.553 M
2.251	88.664			6.221 M	5.217 M			5.771 M	7.502 M
2.262	89.439			5.855 M	4.912 M			5.420 M	7.047 M
2.300	92.083			4.887 M	4.098 M			4.465 M	5.805 M
2.334	94.482			4.297 M	3.604 M			3.881 M	5.045 M
2.350	95.583			4.072 M	3.416 M			3.660 M	4.758 M
2.400	99.083			3.533 M	2.963 M			3.123 M	4.061 M
2.450	102.583			3.191 M	2.678 M			2.781 M	3.615 M
2.467	103.750			3.115 M	2.613 M			2.703 M	3.514 M
2.500	106.083			3.018 M	2.531 M			2.598 M	3.377 M
2.550	109.583			2.963 M	2.486 M			2.527 M	3.285 M
2.600	113.083			2.936 M	2.461« M			2.486 M	3.232 M
2.636	115.599			2.979 M	2.498 M			2.518 M	3.273 M
2.650	116.583			3.006 M	2.521 M			2.539 M	3.301 M
2.700	120.083			3.199 M	2.684 M			2.701 M	3.514 M
2.733	122.417			3.389 M	2.842 M			2.867 M	3.729 M
2.750	123.583			3.516 M	2.949 M			2.980 M	3.875 M
2.800	127.083			4.104 M	4.129 M			3.504 M	4.555 M
2.850	130.583			5.178 M	5.213 M			4.467 M	5.807 M
2.867	131.750			5.758 M	5.795 M			4.984 M	6.479 M
2.900	134.083			7.461 M	7.510 M			6.512 M	8.467 M
2.950	137.583			8.605 V	8.662 V			10.000	10.000
3.000	141.063			8.014 V	8.066 V			10.000	10.000
3.000	141.083			8.014 V	8.066 V			10.000	10.000
3.000	141.083			10.000	10.000			10.000	10.000
3.231	141.333			10.000	10.000			10.000	10.000

INTERIOR GIRDER LOAD RATING

**GRID ANALYSIS PERFORMED TO
ACCURATELY PORTRAY EXTERIOR GIRDER
RESPONSE W/ WHEEL LOADS ON LANE LINE**

----- ELEMENT SUMMARY -----

ELEMENT TYPE	NUMBER OF ELEMENTS	MAXIMUM NUMBER OF VERTICES
GIRDER	6	2
BEARING	3	2
FIELD SPLICES	1	2
GUTTER LINES	2	2
SLAB OUTLINES	1	9
BASELINES	1	2
DIAPHRAGMS	45	

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----- GIRDER LABEL DATA -----
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6 GIRDER COMPOSITE CROSS-SECTION

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----- GIRDER 1 DATA -----
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----- GIRDER 1 DATA -----

GIRDER 1 LABEL: S1 (Continued)

TOP FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	BEGIN DEPTH (in)	END DEPTH (in)	MATERIAL
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN DIST (ft)	END DIST (ft)	TOP LAYER BAR AREA (in ²)	TOP LAYER DIST c (in)	BTM LAYER BAR AREA (in ²)	BTM LAYER DIST c (in)	TOTAL AREA (in ²)	MATERIAL
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

----- GIRDER 2 DATA -----

GIRDER 2 LABEL: S2

SHAPE: I-Section

TOP FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	BEGIN DEPTH (in)	END DEPTH (in)	MATERIAL
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN DIST (ft)	END DIST (ft)	TOP LAYER BAR AREA (in ²)	TOP LAYER DIST c (in)	BTM LAYER BAR AREA (in ²)	BTM LAYER DIST c (in)	TOTAL AREA (in ²)	MATERIAL
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

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----- GIRDER 3 DATA -----

GIRDER 3 LABEL: S3
 SHAPE: I-Section

TOP FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	BEGIN DEPTH (in)	END DEPTH (in)	MATERIAL
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN DIST (ft)	END DIST (ft)	TOP LAYER BAR AREA (in ²)	TOP LAYER DIST c (in)	BTM LAYER BAR AREA (in ²)	BTM LAYER DIST c (in)	TOTAL AREA (in ²)	MATERIAL
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

----- GIRDER 4 DATA -----

GIRDER 4 LABEL: S4
 SHAPE: I-Section

TOP FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	WIDTH (in)	MATERIAL
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST (ft)	END DIST (ft)	THICKNESS (in)	BEGIN DEPTH (in)	END DEPTH (in)	MATERIAL
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN DIST (ft)	END DIST (ft)	TOP LAYER BAR AREA (in ²)	TOP LAYER DIST c (in)	BTM LAYER BAR AREA (in ²)	BTM LAYER DIST c (in)	TOTAL AREA (in ²)	MATERIAL
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

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----- GIRDER  5 DATA -----
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GIRDER 5 LABEL: S5
SHAPE: I-Section

TOP FLANGE PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	WIDTH	MATERIAL
(ft)	(ft)	(in)	(in)	
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	WIDTH	MATERIAL
(ft)	(ft)	(in)	(in)	
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	BEGIN DEPTH	END DEPTH	MATERIAL
(ft)	(ft)	(in)	(in)	(in)	
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN	END	TOP LAYER	TOP LAYER	BTM LAYER	BTM LAYER	TOTAL	
DIST	DIST	BAR AREA	DIST c	BAR AREA	DIST c	AREA	MATERIAL
(ft)	(ft)	(in ²)	(in)	(in ²)	(in)	(in ²)	
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

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----- GIRDER  6 DATA -----
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GIRDER 6 LABEL: S6
SHAPE: I-Section
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TOP FLANGE PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	WIDTH	MATERIAL
(ft)	(ft)	(in)	(in)	
0.000	88.664	1.020	12.000	A709-50W
88.664	142.167	0.790	12.000	A709-50W

BOTTOM FLANGE PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	WIDTH	MATERIAL
(ft)	(ft)	(in)	(in)	
0.000	88.583	1.020	12.000	A709-50W
88.583	142.167	0.790	12.000	A709-50W

WEB PLATE DATA:

BEGIN DIST	END DIST	THICKNESS	BEGIN DEPTH	END DEPTH	MATERIAL
(ft)	(ft)	(in)	(in)	(in)	
0.000	88.583	0.650	33.960	33.960	A709-50W
88.583	142.167	0.600	34.020	34.020	A709-50W

COMPOSITE NEGATIVE MOMENT STEEL:

BEGIN	END	TOP LAYER	TOP LAYER	BTM LAYER	BTM LAYER	TOTAL	
DIST	DIST	BAR AREA	DIST c	BAR AREA	DIST c	AREA	MATERIAL
(ft)	(ft)	(in ²)	(in)	(in ²)	(in)	(in ²)	
0.000	142.167	0.00	0.000	0.00	0.000	0.00	Grade 60

Note: Distance c is measured from top of web upward to CL of each bar layer.

----- SLAB DATA -----

SLAB 1 LABEL: SLAB

STRUCTURAL SLAB:		STRUCTURAL WEARING SURFACE:	FUTURE WEARING SURFACE:
THICKNESS:	8.500 (in)	THICKNESS: 0.000 (in)	(Applied Curb to Curb Only)
MATERIAL:	3000	MATERIAL: None	THICKNESS: 0.000 (in)
HAUNCH WIDTH:	0.000 (in)		WEIGHT: 0.000 (psf)
HAUNCH THICK:	2.020 (in)		

REDUCTION FOR WEAR: 0.000 (in)

COMPOSITE NEGATIVE MOMENT STEEL:

TOP LAYER	TOP LAYER	BTM LAYER	BTM LAYER	TOTAL AREA	TOTAL AREA	MATERIAL
BAR AREA	DISTANCE	BAR AREA	DISTANCE	(in ² /ft)	%	
(in ² /ft)	(in)	(in ² /ft)	(in)			
0.41	2.940	0.33	1.940	0.74	0.726	Grade 60

10 - #5 BARS TOP
8 - #5 BARS BOTTOM

----- SHEAR STUD DATA -----

SHEAR STUD DATA:

DIA: 0.875 (in)
 LENGTH: 5.000 (in)
 MATERIAL: A709-50W Fu = 70.0 (ksi)
 NUMBER PER ROW: 1

----- DIAPHRAGM DATA -----

DIAPHRAGM DATA:

TYPE: 1 LABEL: TYPE A
 MATERIAL: Diaphragm
 AX: 10.0 (in²) IX: 20.0 (in⁴) IZ: 400.0 (in⁴)

DIAPHRAGM LOCATIONS, GIRDER 1:

GIRDER 1	DISTANCE	CONNECTED TO	TYPE
(ft)			
1.083	GIRDER 2	1	
19.750	GIRDER 2	1	
38.417	GIRDER 2	1	
57.152	GIRDER 2	1	
71.083	GIRDER 2	1	
85.213	GIRDER 2	1	
103.750	GIRDER 2	1	
122.417	GIRDER 2	1	
141.083	GIRDER 2	1	

DIAPHRAGM LOCATIONS, GIRDER 2:

GIRDER 2	DISTANCE	CONNECTED TO	TYPE	CONNECTED TO	TYPE
(ft)					
1.083	GIRDER 3	1	GIRDER 1	1	
19.750	GIRDER 3	1	GIRDER 1	1	
38.417	GIRDER 3	1	GIRDER 1	1	
57.139	GIRDER 3	1	GIRDER 1	1	
71.083	GIRDER 3	1	GIRDER 1	1	
85.187	GIRDER 1	1	GIRDER 3	1	
103.750	GIRDER 1	1	GIRDER 3	1	
122.417	GIRDER 1	1	GIRDER 3	1	
141.083	GIRDER 1	1	GIRDER 3	1	

DIAPHRAGM LOCATIONS, GIRDER 3:

GIRDER 3	DISTANCE	CONNECTED TO	TYPE	CONNECTED TO	TYPE
(ft)					
1.083	GIRDER 4	1	GIRDER 2	1	
19.750	GIRDER 4	1	GIRDER 2	1	

□

----- DIAPHRAGM DATA

DIAPHRAGM LOCATIONS, GIRDER 3: (Continued)

GIRDER 3 DISTANCE (ft)	CONNECTED TO	TYPE	CONNECTED TO	TYPE
38.417	GIRDER 4	1	GIRDER 2	1
57.125	GIRDER 4	1	GIRDER 2	1
71.083	GIRDER 4	1	GIRDER 2	1
85.161	GIRDER 2	1	GIRDER 4	1
103.750	GIRDER 2	1	GIRDER 4	1
122.417	GIRDER 2	1	GIRDER 4	1
141.083	GIRDER 2	1	GIRDER 4	1

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DIAPHRAGM LOCATIONS, GIRDER 4:

GIRDER 4 DISTANCE (ft)	CONNECTED TO	TYPE	CONNECTED TO	TYPE
1.083	GIRDER 5	1	GIRDER 3	1
19.750	GIRDER 5	1	GIRDER 3	1
38.417	GIRDER 5	1	GIRDER 3	1
57.111	GIRDER 5	1	GIRDER 3	1
71.083	GIRDER 5	1	GIRDER 3	1
85.135	GIRDER 3	1	GIRDER 5	1
103.750	GIRDER 3	1	GIRDER 5	1
122.417	GIRDER 3	1	GIRDER 5	1
141.083	GIRDER 3	1	GIRDER 5	1

DIAPHRAGM LOCATIONS, GIRDER 5:

GIRDER 5 DISTANCE (ft)	CONNECTED TO	TYPE	CONNECTED TO	TYPE
1.083	GIRDER 6	1	GIRDER 4	1
19.750	GIRDER 6	1	GIRDER 4	1
38.417	GIRDER 6	1	GIRDER 4	1
57.097	GIRDER 6	1	GIRDER 4	1
71.083	GIRDER 6	1	GIRDER 4	1
85.109	GIRDER 4	1	GIRDER 6	1
103.750	GIRDER 4	1	GIRDER 6	1
122.417	GIRDER 4	1	GIRDER 6	1
141.083	GIRDER 4	1	GIRDER 6	1

DIAPHRAGM LOCATIONS, GIRDER 6:

GIRDER 6 DISTANCE (ft)	CONNECTED TO	TYPE
1.083	GIRDER 5	1
19.750	GIRDER 5	1
38.417	GIRDER 5	1
57.083	GIRDER 5	1
71.083	GIRDER 5	1
85.083	GIRDER 5	1
103.750	GIRDER 5	1
122.417	GIRDER 5	1
141.083	GIRDER 5	1

----- MATERIALS DATA

STEEL:

TYPE:	A709-50W	TYPE:	Diaphragm
Fy:	50.0 (ksi)	Fy:	0.0 (ksi)
Fu:	70.0 (ksi)	Fu:	0.0 (ksi)
WT:	490.0 (lb/ft ³)	WT:	490.1 (lb/ft ³)
E:	29000 (ksi)	E:	29008 (ksi)
G:	12000 (ksi)	G:	11157 (ksi)

----- MATERIALS DATA -----

CONCRETE:
 TYPE: 3000
 f'c: 3.0 (ksi)
 WT: 150.0 (lb/ft³)
 E: 3122 (ksi)
 G: 1357 (ksi)
 AGGR: NORMAL

REBAR:
 TYPE: Grade 60
 Fy: 60.0 (ksi)
 E: 29000 (ksi)

----- LOADS DATA -----

USER DEFINED LOADS:

LOAD TYPE LEGEND:

ARMF: A-DL REMOVABLE FORMS	BFWS: B-DL FUTURE WEARING SURFACE	LIMP: LIVE LOAD IMPACT
ASTL: A-DL STEEL	BIWS: B-DL INTEGRAL WEARING SURFACE	LXLL: AUXILIARY LIVE LOAD
ACON: A-DL CONCRETE	BBAR: B-DL BARRIERS	LPLL: PEDESTRIAN LIVE LOAD
ASET: A-DL SETTLEMENT	BUTL: B-DL UTILITIES	
AADD: A-DL ADDITIONAL	BSET: B-DL SETTLEMENT	
	BADD: B-DL ADDITIONAL	
	BSWK: B-DL SIDEWALK	

LOAD NO.	LABEL	TYPE	MEMBER	BEG DIST (ft)	END DIST (ft)	BEG W (k/ft)	END W (k/ft)	CONC P (kips)	CONST STAGE
1	WEARING SURFACE	BFWS	GDR 1	0.000	142.167	0.283	0.283		0
2	BRACING-EXT	ASTL	GDR 1	0.000	142.167	0.009	0.009		0
3	RAIL	BBAR	GDR 1	0.000	142.167	0.009	0.009		0
4	CURB	BBAR	GDR 1	0.000	142.167	0.106	0.106		0
5	HAUNCH	ACON	GDR 1	0.000	142.167	0.059	0.059		0
6	WEARING SURFACE	BFWS	GDR 6	0.000	142.167	0.258	0.258		0
7	RAIL	BBAR	GDR 6	0.000	142.167	0.009	0.009		0
8	HAUNCH	ACON	GDR 6	0.000	142.167	0.059	0.059		0
9	CURB	BBAR	GDR 6	0.000	142.167	0.102	0.102		0
10	BRACING-EXT	ASTL	GDR 6	0.000	142.167	0.009	0.009		0
11	BRACING-INT	ASTL	GDR 2	0.000	142.167	0.018	0.018		0
12	CURB	BBAR	GDR 2	0.000	142.167	0.102	0.102		0
13	HAUNCH	ACON	GDR 2	0.000	142.167	0.059	0.059		0
14	RAIL	BBAR	GDR 2	0.000	142.167	0.009	0.009		0
15	WEARING SURFACE	BFWS	GDR 2	0.000	142.167	0.258	0.258		0
16	WEARING SURFACE	BFWS	GDR 3	0.000	142.167	0.258	0.258		0
17	RAIL	BBAR	GDR 3	0.000	142.167	0.009	0.009		0
18	HAUNCH	ACON	GDR 3	0.000	142.167	0.059	0.059		0
19	CURB	BBAR	GDR 3	0.000	142.167	0.102	0.102		0
20	BRACING-INT	ASTL	GDR 3	0.000	142.167	0.018	0.018		0
21	WEARING SURFACE	BFWS	GDR 4	0.000	142.167	0.258	0.258		0
22	RAIL	BBAR	GDR 4	0.000	142.167	0.009	0.009		0
23	HAUNCH	ACON	GDR 4	0.000	142.167	0.059	0.059		0
24	CURB	BBAR	GDR 4	0.000	142.167	0.102	0.102		0
25	BRACING-INT	ASTL	GDR 4	0.000	142.167	0.018	0.018		0
26	WEARING SURFACE	BFWS	GDR 5	0.000	142.167	0.258	0.258		0
27	RAIL	BBAR	GDR 5	0.000	142.167	0.009	0.009		0
28	HAUNCH	ACON	GDR 5	0.000	142.167	0.059	0.059		0
29	CURB	BBAR	GDR 5	0.000	142.167	0.102	0.102		0
30	BRACING-INT	ASTL	GDR 5	0.000	142.167	0.018	0.018		0

**BACKUP PROVIDED IN
LOAD DEVELOPEMNT
SECTION**

----- LOADS DATA -----

LOAD MULTIPLIER FACTORS:

LOAD MULTIPLIER LEGEND:

ASTL: A-DL STEEL BFWS: B-DL FUTURE WEARING SURFACE LLM: LL DISTRIBUTION FACTOR - MOM
 ACON: A-DL CONCRETE BIWS: B-DL INTEGRAL WEARING SURFACE LLV: LL DISTRIBUTION FACTOR - SHR
 BBAR: B-DL BARRIERS LLFM: LL DISTRIBUTION FACTOR - FAT MOM
 BSWK: B-DL SIDEWALKS LLFV: LL DISTRIBUTION FACTOR - FAT SHR
 LL: VEHICULAR LIVE LOAD LLOM: OLV, OLO LL DISTRIBUTION FACTOR - MOM
 LLD: LL DISTRIBUTION FACTOR - DISP LLOV: OLV, OLO LL DISTRIBUTION FACTOR - SHR

MULT NO.	LABEL	TYPE	MEMBER	BEG DIST (ft)	END DIST (ft)	BEG FACTOR	END FACTOR
1	Misc. Steel	ASTL	GDR 6	0.000	142.167	1.050	1.050
2	Misc. Steel	ASTL	GDR 1	0.000	142.167	1.050	1.050
3	Misc. Steel	ASTL	GDR 2	0.000	142.167	1.050	1.050
4	Misc. Steel	ASTL	GDR 3	0.000	142.167	1.050	1.050
5	Misc. Steel	ASTL	GDR 4	0.000	142.167	1.050	1.050
6	Misc. Steel	ASTL	GDR 5	0.000	142.167	1.050	1.050

Notes:

- 1) A-DL Steel multiplier is applied to self weight of girders only, not to diaphragms.
- 2) Dead load multipliers are applied ONLY to dead loads automatically computed by the program, not to user defined dead loads.
- 3) Load multipliers not listed are defaulted to 1.0.

LIVE LOAD CASE DATA:

LL CASE NUMBER: 1 LL CASE NAME: HL-93-ED
 IMPACT: Yes

LANE LOAD DATA:

DISTRIBUTED LOAD: 0.640 (k/ft)
 CONCENTRATED LOAD FOR MOMENT: 0.000 (kips)
 CONCENTRATED LOAD FOR SHEAR: 0.000 (kips)

MOVING LOAD PATTERN DATA:

AXLE PATTERN 1
 PATTERN TYPE: Design

DISTANCE (ft)	AXLE LOAD (kips)
0.000	8.000
14.000	32.000
28.000	32.000

 TOTAL WEIGHT = 72.000 (kips) 36.000 (Tons)

AXLE PATTERN 2
 PATTERN TYPE: Design Fatigue

DISTANCE (ft)	AXLE LOAD (kips)
0.000	8.000
14.000	32.000
44.000	32.000

 TOTAL WEIGHT = 72.000 (kips) 36.000 (Tons)

AXLE PATTERN 3
 PATTERN TYPE: Design

DISTANCE (ft)	AXLE LOAD (kips)
0.000	25.000
4.000	25.000

 TOTAL WEIGHT = 50.000 (kips) 25.000 (Tons)

APPLIED TO ACCOUNT FOR MISC. HARDWARE AND CONNECTIONS

----- LOADS DATA -----

LIVE LOAD CASE DATA: (Continued)

MOVING LOAD PATTERN DATA: (Continued)

AXLE PATTERN 4
 PATTERN TYPE: Design Double Truck
 DISTANCE (ft) AXLE LOAD (kips)
 0.000 8.000
 14.000 32.000
 28.000 32.000
 78.000 8.000
 92.000 32.000
 106.000 32.000

 TOTAL WEIGHT = 144.000 (kips) 72.000 (Tons)

CALCULATED B-DEAD LOAD DATA:

GIRDER	BEG DIST (ft)	END DIST (ft)	NUM GIRD	B-DL BARRIERS		B-DL FWS		B-DL IWS		B-DL SIDEWALKS	
				BEG W (k/ft)	END W (k/ft)	BEG W (k/ft)	END W (k/ft)	BEG W (k/ft)	END W (k/ft)	BEG W (k/ft)	END W (k/ft)
1	0.000	142.167	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	142.167	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	142.167	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	142.167	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	142.167	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	142.167	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

----- GIRDER 3 INPUT DATA SUMMARY -----

CODES: B = BEARING D = DIAPHRAGM (BRACED)
 T = 20th POINT C = CONTRAFLEXURE(0 MOMENT OR 0 SHEAR)
 H = HINGE G = GIRDER OR SLAB DIMENSION CHANGE
 S = FIELD SPLICE P = TRACE POINT
 F = FLOORBEAM (BRACED) M = PANEL MIDPOINT

* * * INPUT DATA SUMMARY - GIRDER 3 * * *

SPAN	DIST (ft)	CODES												TOP FLANGE		BOT FLANGE		WEB		SLAB	
		B	H	T	C	G	S	D	F	P	M	THICK t (in)	WIDTH w (in)	THICK t (in)	WIDTH w (in)	DEPTH d (in)	THICK t (in)	WIDTH Wg (in)	WIDTH We (in)		
0.000	0.000											1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.000	1.083	B										1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.000	1.083	B										1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.000	1.107				C							1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.000	1.107				C							1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.050	4.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.100	8.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.133	10.417									M		1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.150	11.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.200	15.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.250	18.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.267	19.750									D		1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.300	22.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.350	25.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.372	27.154									C		1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.400	29.083			T							M	1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.450	32.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.500	36.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.533	38.417									D		1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.550	39.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.600	43.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.650	46.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.667	47.771										M	1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.700	50.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.745	53.212									C		1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		
1.750	53.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00		

(7.5')(12)=90"

----- GIRDER 3 INPUT DATA SUMMARY -----

CODES: B = BEARING D = DIAPHRAGM (BRACED)
 T = 20th POINT C = CONTRAFLEXURE(0 MOMENT OR 0 SHEAR)
 H = HINGE G = GIRDER OR SLAB DIMENSION CHANGE
 S = FIELD SPLICE P = TRACE POINT
 F = FLOORBEAM (BRACED) M = PANEL MIDPOINT

* * * INPUT DATA SUMMARY - GIRDER 3 * * *

		CODES										TOP FLANGE		BOT FLANGE		WEB		SLAB	
SPAN	DIST	B	H	T	C	G	S	D	F	P	M	THICK t (in)	WIDTH w (in)	THICK t (in)	WIDTH w (in)	DEPTH d (in)	THICK t (in)	WIDTH Wg (in)	WIDTH We (in)
FRAC	(ft)																		
1.800	57.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
1.801	57.125							D				1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
1.850	60.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
1.900	64.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
1.900	64.104									M		1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
1.950	67.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
2.000	71.083	B		T				D				1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
2.000	71.083	B		T				D				1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
2.050	74.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
2.100	78.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
2.101	78.122									M		1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
2.150	81.583			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
2.200	85.083			T								1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
2.201	85.161							D				1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
2.250	88.583			T		G	S					1.0200	12.000	1.0200	12.000	33.960	0.6500	90.00	90.00
2.250	88.583			T		G	S					1.0200	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.251	88.664					G						1.0200	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.251	88.664					G						0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.260	89.276					C						0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.300	92.083			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.334	94.456									M		0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.350	95.583			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.400	99.083			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.450	102.583			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.467	103.750							D				0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.500	106.083			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.550	109.583			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.600	113.083			T						M		0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.630	115.176					C						0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.650	116.583			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.700	120.083			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.733	122.417							D				0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.750	123.583			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.800	127.083			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.850	130.583			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.867	131.750									M		0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.900	134.083			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
2.950	137.583			T								0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
3.000	141.060					C						0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
3.000	141.060					C						0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
3.000	141.083	B		T				D				0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
3.000	141.083	B		T				D				0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00
4.000	142.167											0.7900	12.000	0.7900	12.000	34.020	0.6000	90.00	90.00

----- SECTION PROPERTIES -----

GIRDER: S1
 NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)
1.000	46.554	63.	9612.
1.801	46.554	63.	9612.
1.801	46.554	103.	9612.
2.000	46.554	103.	9612.
2.000	46.554	103.	9612.
2.000	46.554	100.	9612.
2.202	46.554	100.	9612.
2.202	46.554	64.	9612.
2.250	46.554	64.	9612.
2.250	42.132	54.	8541.
2.251	42.132	54.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

GIRDER: S1

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

3n-COMPOSITE				1n-COMPOSITE		
SPAN.LOC	A	Ixx	Izz	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in ²)	(in ⁴)	(in ⁴)
0.000	72.056	3578.	18672.	123.061	5764.	25718.
0.769	72.056	3578.	18672.	123.061	5764.	25718.
0.769	51.689	3573.	12065.	51.689	5750.	12065.
1.000	51.689	3573.	12065.	51.689	5750.	12065.
1.000	51.682	3571.	12062.	51.682	5746.	12062.
1.000	51.682	3571.	12062.	51.682	5746.	12062.
1.000	51.682	1187.	12062.	51.682	3161.	12062.
1.000	51.682	1187.	12062.	51.682	3161.	12062.
1.000	51.681	1187.	12061.	51.681	3161.	12061.
1.000	51.681	1187.	12061.	51.681	3161.	12061.
1.000	71.905	1187.	18637.	122.606	3161.	25680.
1.004	71.905	1187.	18637.	122.606	3161.	25680.
1.004	71.875	1185.	18630.	122.516	3157.	25672.
1.050	71.875	1185.	18630.	122.516	3157.	25672.
1.050	71.446	1168.	18529.	121.229	3108.	25563.
1.050	71.446	1168.	18529.	121.229	3108.	25563.
1.050	71.443	1168.	18529.	121.220	3107.	25562.
1.100	71.443	1168.	18529.	121.220	3107.	25562.
1.100	71.005	1151.	18425.	119.906	3057.	25448.
1.100	71.005	1151.	18425.	119.906	3057.	25448.
1.100	71.002	1150.	18424.	119.898	3057.	25448.
1.133	71.002	1150.	18424.	119.898	3057.	25448.
1.133	70.726	1139.	18358.	119.069	3025.	25375.
1.150	70.726	1139.	18358.	119.069	3025.	25375.
1.150	70.587	1134.	18325.	118.654	3009.	25338.
1.150	70.587	1134.	18325.	118.654	3009.	25338.
1.150	70.585	1134.	18324.	118.647	3008.	25337.
1.200	70.585	1134.	18324.	118.647	3008.	25337.
1.200	70.194	1118.	18230.	117.474	2963.	25232.
1.200	70.194	1118.	18230.	117.474	2963.	25232.
1.200	70.192	1118.	18229.	117.467	2963.	25231.
1.250	70.192	1118.	18229.	117.467	2963.	25231.
1.250	69.825	1103.	18139.	116.366	2921.	25130.
1.250	69.825	1103.	18139.	116.366	2921.	25130.
1.250	69.822	1103.	18138.	116.359	2920.	25129.
1.267	69.822	1103.	18138.	116.359	2920.	25129.
1.267	69.708	1099.	18110.	116.016	2907.	25097.
1.300	69.708	1099.	18110.	116.016	2907.	25097.

□

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
1.300	69.479	1089.	18054.	115.329	2881.	25033.
1.300	69.479	1089.	18054.	115.329	2881.	25033.
1.300	69.477	1089.	18053.	115.323	2880.	25033.
1.350	69.477	1089.	18053.	115.323	2880.	25033.
1.350	69.157	1076.	17973.	114.364	2844.	24942.
1.350	69.157	1076.	17973.	114.364	2844.	24942.
1.350	69.155	1076.	17973.	114.358	2843.	24941.
1.366	69.155	1076.	17973.	114.358	2843.	24941.
1.366	69.058	1072.	17948.	114.066	2832.	24913.
1.400	68.859	1064.	17898.	113.470	2809.	24856.
1.400	68.859	1064.	17898.	113.470	2809.	24856.
1.400	68.858	1064.	17898.	113.465	2809.	24855.
1.450	68.858	1064.	17898.	113.465	2809.	24855.
1.450	68.585	1053.	17828.	112.648	2777.	24775.
1.450	68.585	1053.	17828.	112.648	2777.	24775.
1.450	68.584	1053.	17828.	112.643	2777.	24775.
1.500	68.584	1053.	17828.	112.643	2777.	24775.
1.500	68.335	1043.	17764.	111.897	2748.	24701.
1.500	68.335	1043.	17764.	111.897	2748.	24701.
1.500	68.334	1043.	17764.	111.893	2748.	24700.
1.533	68.334	1043.	17764.	111.893	2748.	24700.
1.533	68.184	1037.	17725.	111.443	2731.	24655.
1.533	68.184	1037.	17725.	111.443	2731.	24655.
1.533	68.184	1036.	17725.	111.443	2729.	24655.
1.550	68.184	1036.	17725.	111.443	2729.	24655.
1.550	68.109	1033.	17706.	111.218	2721.	24633.
1.550	68.109	1033.	17706.	111.218	2721.	24633.
1.550	68.107	1033.	17706.	111.214	2720.	24632.
1.600	68.107	1033.	17706.	111.214	2720.	24632.
1.600	67.906	1025.	17653.	110.610	2697.	24571.
1.600	67.906	1025.	17653.	110.610	2697.	24571.
1.600	67.905	1025.	17653.	110.606	2697.	24571.
1.650	67.905	1025.	17653.	110.606	2697.	24571.
1.650	67.727	1018.	17607.	110.074	2676.	24517.
1.650	67.727	1018.	17607.	110.074	2676.	24517.
1.650	67.726	1018.	17607.	110.071	2676.	24516.
1.667	67.726	1018.	17607.	110.071	2676.	24516.
1.667	67.673	1015.	17593.	109.912	2670.	24500.
1.700	67.673	1015.	17593.	109.912	2670.	24500.
1.700	67.572	1011.	17566.	109.609	2658.	24469.
1.700	67.572	1011.	17566.	109.609	2658.	24469.
1.700	67.571	1011.	17566.	109.606	2658.	24468.
1.742	67.571	1011.	17566.	109.606	2658.	24468.
1.742	67.462	1007.	17537.	109.278	2646.	24434.
1.742	67.462	1007.	17537.	109.278	2646.	24434.
1.742	50.783	1007.	11668.	50.783	2646.	11668.
1.750	50.783	1007.	11668.	50.783	2646.	11668.
1.750	50.778	1006.	11666.	50.778	2643.	11666.
1.800	50.778	1006.	11666.	50.778	2643.	11666.
1.800	50.757	1002.	11656.	50.757	2631.	11656.
1.801	50.757	1002.	11656.	50.757	2631.	11656.
1.801	50.756	1002.	11656.	50.756	2631.	11656.
1.801	50.756	1002.	11656.	50.756	2631.	11656.
1.801	50.756	1121.	11656.	50.756	2786.	11656.
1.850	50.756	1121.	11656.	50.756	2786.	11656.
1.850	50.740	1118.	11649.	50.740	2777.	11649.
1.900	50.740	1118.	11649.	50.740	2777.	11649.
1.900	50.728	1116.	11643.	50.728	2770.	11643.
1.950	50.728	1116.	11643.	50.728	2770.	11643.
1.950	50.720	1114.	11640.	50.720	2766.	11640.
1.996	50.720	1114.	11640.	50.720	2766.	11640.
1.996	50.718	1114.	11639.	50.718	2764.	11639.

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
2.000	50.718	1114.	11639.	50.718	2764.	11639.
2.000	50.718	1114.	11639.	50.718	2764.	11639.
2.000	50.718	1106.	11639.	50.718	2755.	11639.
2.050	50.718	1106.	11639.	50.718	2755.	11639.
2.050	50.720	1107.	11640.	50.720	2757.	11640.
2.100	50.720	1107.	11640.	50.720	2757.	11640.
2.100	50.728	1108.	11643.	50.728	2761.	11643.
2.150	50.728	1108.	11643.	50.728	2761.	11643.
2.150	50.740	1111.	11649.	50.740	2768.	11649.
2.200	50.740	1111.	11649.	50.740	2768.	11649.
2.200	50.757	1114.	11656.	50.757	2778.	11656.
2.202	50.757	1114.	11656.	50.757	2778.	11656.
2.202	50.757	1005.	11656.	50.757	2636.	11656.
2.250	50.757	1005.	11656.	50.757	2636.	11656.
2.250	50.778	1009.	11666.	50.778	2648.	11666.
2.250	50.778	1009.	11666.	50.778	2648.	11666.
2.250	46.356	969.	10381.	46.356	2594.	10381.
2.251	46.356	969.	10381.	46.356	2594.	10381.
2.251	46.357	970.	10381.	46.357	2594.	10381.
2.251	46.357	970.	10381.	46.357	2594.	10381.
2.251	43.597	967.	9742.	43.597	2591.	9742.
2.262	43.597	967.	9742.	43.597	2591.	9742.
2.262	43.603	968.	9745.	43.603	2595.	9745.
2.262	43.603	968.	9745.	43.603	2595.	9745.
2.262	60.291	968.	15243.	102.129	2595.	21203.
2.300	60.291	968.	15243.	102.129	2595.	21203.
2.300	60.389	972.	15266.	102.424	2606.	21229.
2.300	60.389	972.	15266.	102.424	2606.	21229.
2.300	60.390	972.	15266.	102.427	2606.	21229.
2.334	60.390	972.	15266.	102.427	2606.	21229.
2.334	60.496	976.	15291.	102.743	2618.	21256.
2.350	60.496	976.	15291.	102.743	2618.	21256.
2.350	60.544	978.	15303.	102.889	2624.	21268.
2.350	60.544	978.	15303.	102.889	2624.	21268.
2.350	60.545	978.	15303.	102.892	2624.	21269.
2.400	60.545	978.	15303.	102.892	2624.	21269.
2.400	60.723	985.	15345.	103.424	2644.	21314.
2.400	60.723	985.	15345.	103.424	2644.	21314.
2.400	60.724	985.	15345.	103.428	2645.	21314.
2.450	60.724	985.	15345.	103.428	2645.	21314.
2.450	60.925	993.	15392.	104.032	2668.	21365.
2.450	60.925	993.	15392.	104.032	2668.	21365.
2.450	60.927	994.	15392.	104.036	2668.	21365.
2.467	60.927	994.	15392.	104.036	2668.	21365.
2.467	61.002	997.	15409.	104.261	2676.	21384.
2.467	61.002	997.	15409.	104.261	2676.	21384.
2.467	61.002	995.	15409.	104.261	2674.	21384.
2.500	61.002	995.	15409.	104.261	2674.	21384.
2.500	61.152	1001.	15444.	104.711	2691.	21421.
2.500	61.152	1001.	15444.	104.711	2691.	21421.
2.500	61.153	1001.	15444.	104.715	2691.	21422.
2.550	61.153	1001.	15444.	104.715	2691.	21422.
2.550	61.402	1011.	15502.	105.461	2720.	21483.
2.550	61.402	1011.	15502.	105.461	2720.	21483.
2.550	61.403	1011.	15502.	105.466	2720.	21483.
2.600	61.403	1011.	15502.	105.466	2720.	21483.
2.600	61.676	1022.	15564.	106.283	2751.	21550.
2.600	61.676	1022.	15564.	106.283	2751.	21550.
2.600	61.677	1022.	15564.	106.288	2752.	21550.
2.636	61.677	1022.	15564.	106.288	2752.	21550.
2.636	61.890	1030.	15612.	106.926	2776.	21601.
2.650	61.890	1030.	15612.	106.926	2776.	21601.

□

----- SECTION PROPERTIES -----

GIRDER: S1 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
2.650	61.973	1033.	15631.	107.176	2785.	21621.
2.650	61.973	1033.	15631.	107.176	2785.	21621.
2.650	61.975	1033.	15632.	107.182	2786.	21621.
2.700	61.975	1033.	15632.	107.182	2786.	21621.
2.700	62.295	1046.	15703.	108.141	2822.	21697.
2.700	62.295	1046.	15703.	108.141	2822.	21697.
2.700	62.297	1046.	15704.	108.147	2823.	21697.
2.733	62.297	1046.	15704.	108.147	2823.	21697.
2.733	62.526	1055.	15754.	108.834	2849.	21750.
2.750	62.526	1055.	15754.	108.834	2849.	21750.
2.750	62.640	1060.	15780.	109.177	2862.	21777.
2.750	62.640	1060.	15780.	109.177	2862.	21777.
2.750	62.643	1060.	15780.	109.184	2862.	21777.
2.800	62.643	1060.	15780.	109.184	2862.	21777.
2.800	63.010	1075.	15860.	110.285	2904.	21861.
2.800	63.010	1075.	15860.	110.285	2904.	21861.
2.800	63.012	1075.	15861.	110.292	2905.	21861.
2.850	63.012	1075.	15861.	110.292	2905.	21861.
2.850	63.403	1090.	15945.	111.465	2949.	21948.
2.850	63.403	1090.	15945.	111.465	2949.	21948.
2.850	63.405	1090.	15946.	111.472	2950.	21949.
2.867	63.405	1090.	15946.	111.472	2950.	21949.
2.867	63.544	1096.	15976.	111.887	2966.	21979.
2.900	63.544	1096.	15976.	111.887	2966.	21979.
2.900	63.820	1107.	16035.	112.716	2997.	22039.
2.900	63.820	1107.	16035.	112.716	2997.	22039.
2.900	63.823	1107.	16035.	112.724	2997.	22040.
2.950	63.823	1107.	16035.	112.724	2997.	22040.
2.950	64.261	1124.	16128.	114.038	3048.	22134.
2.950	64.261	1124.	16128.	114.038	3048.	22134.
2.950	64.264	1124.	16128.	114.047	3048.	22134.
2.996	64.264	1124.	16128.	114.047	3048.	22134.
2.996	64.693	1141.	16217.	115.334	3097.	22224.
3.000	64.693	1141.	16217.	115.334	3097.	22224.
3.000	64.723	1142.	16224.	115.425	3101.	22231.
3.000	64.723	1142.	16224.	115.425	3101.	22231.
3.000	44.499	1142.	10126.	44.499	3101.	10126.
3.000	44.499	1142.	10126.	44.499	3101.	10126.
3.000	44.500	1142.	10126.	44.500	3101.	10126.
3.000	44.500	1142.	10126.	44.500	3101.	10126.
3.000	44.500	3007.	10126.	44.500	5165.	10126.
3.231	44.500	3007.	10126.	44.500	5165.	10126.
3.231	44.507	3008.	10129.	44.507	5170.	10129.
4.000	44.507	3008.	10129.	44.507	5170.	10129.
4.000	64.874	3013.	16255.	115.879	5184.	22262.

GIRDER: S2

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	63.	9612.
1.801	46.554	63.	9612.
1.801	46.554	102.	9612.
2.000	46.554	102.	9612.

----- SECTION PROPERTIES -----

GIRDER: S2 (Continued)

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	A (in ²)	Ixx (in4)	Izz (in4)
2.000	46.554	102.	9612.
2.000	46.554	100.	9612.
2.201	46.554	100.	9612.
2.201	46.554	64.	9612.
2.250	46.554	64.	9612.
2.250	42.132	54.	8541.
2.251	42.132	54.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

GIRDER: S2

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	A (in ²)	3n-COMPOSITE		A (in ²)	1n-COMPOSITE	
		Ixx (in4)	Izz (in4)		Ixx (in4)	Izz (in4)
0.000	74.006	3666.	19112.	128.910	6013.	26185.
0.769	74.006	3666.	19112.	128.910	6013.	26185.
0.769	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	74.006	1270.	19112.	128.910	3402.	26185.
1.533	74.006	1270.	19112.	128.910	3402.	26185.
1.533	74.006	1269.	19112.	128.910	3401.	26185.
1.745	74.006	1269.	19112.	128.910	3401.	26185.
1.745	52.106	1269.	12243.	52.106	3401.	12243.
1.801	52.106	1269.	12243.	52.106	3401.	12243.
1.801	52.106	1395.	12243.	52.106	3571.	12243.
2.000	52.106	1395.	12243.	52.106	3571.	12243.
2.000	52.106	1395.	12243.	52.106	3571.	12243.
2.000	52.106	1389.	12243.	52.106	3563.	12243.
2.201	52.106	1389.	12243.	52.106	3563.	12243.
2.201	52.106	1272.	12243.	52.106	3405.	12243.
2.250	52.106	1272.	12243.	52.106	3405.	12243.
2.250	47.684	1229.	10892.	47.684	3345.	10892.
2.251	47.684	1229.	10892.	47.684	3345.	10892.
2.251	44.924	1227.	10301.	44.924	3343.	10301.
2.260	44.924	1227.	10301.	44.924	3343.	10301.
2.260	66.824	1227.	16644.	121.728	3343.	22646.
2.467	66.824	1227.	16644.	121.728	3343.	22646.
2.467	66.824	1225.	16644.	121.728	3341.	22646.
3.000	66.824	1225.	16644.	121.728	3341.	22646.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	66.824	3100.	16644.	121.728	5430.	22646.

□

----- SECTION PROPERTIES -----

GIRDER: S3

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	63.	9612.
1.801	46.554	63.	9612.
1.801	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	101.	9612.
2.201	46.554	101.	9612.
2.201	46.554	64.	9612.
2.250	46.554	64.	9612.
2.250	42.132	54.	8541.
2.251	42.132	54.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

MATCHES INDEPENDENT CHECK: 9612^4)

MATCHES INDEPENDENT CHECK: 7713^4

GIRDER: S3

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	3n-COMPOSITE			1n-COMPOSITE		
	A	Ixx	Izz	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in ²)	(in ⁴)	(in ⁴)
0.000	74.006	3666.	19112.	128.910	6013.	26185.
0.769	74.006	3666.	19112.	128.910	6013.	26185.
0.769	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	74.006	1270.	19112.	128.910	3402.	26185.
1.533	74.006	1270.	19112.	128.910	3402.	26185.
1.533	74.006	1270.	19112.	128.910	3401.	26185.
1.745	74.006	1270.	19112.	128.910	3401.	26185.
1.745	52.106	1270.	12243.	52.106	3401.	12243.
1.801	52.106	1270.	12243.	52.106	3401.	12243.
1.801	52.106	1395.	12243.	52.106	3570.	12243.
2.000	52.106	1395.	12243.	52.106	3570.	12243.
2.000	52.106	1395.	12243.	52.106	3570.	12243.
2.000	52.106	1390.	12243.	52.106	3564.	12243.
2.201	52.106	1390.	12243.	52.106	3564.	12243.
2.201	52.106	1272.	12243.	52.106	3404.	12243.
2.250	52.106	1272.	12243.	52.106	3404.	12243.
2.250	47.684	1229.	10892.	47.684	3345.	10892.
2.251	47.684	1229.	10892.	47.684	3345.	10892.
2.251	44.924	1226.	10301.	44.924	3342.	10301.
2.260	44.924	1226.	10301.	44.924	3342.	10301.
2.260	66.824	1226.	16644.	121.728	3342.	22646.
2.467	66.824	1226.	16644.	121.728	3342.	22646.
2.467	66.824	1225.	16644.	121.728	3341.	22646.
3.000	66.824	1225.	16644.	121.728	3341.	22646.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	3100.	10301.	44.924	5430.	10301.

□

----- SECTION PROPERTIES -----

GIRDER: S3 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
4.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	66.824	3100.	16644.	121.728	5430.	22646.

GIRDER: S3

INPUT SECTION - NON-COMPOSITE SECTION PROPERTIES

SPAN.LOC FRAC	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	Y-TOP (in)	Y-BOT (in)
0.000	46.554	12.	9612.	18.000	-18.000
1.000	46.554	12.	9612.	18.000	-18.000
1.000	46.554	12.	9612.	18.000	-18.000
2.000	46.554	12.	9612.	18.000	-18.000
2.000	46.554	12.	9612.	18.000	-18.000
2.250	46.554	12.	9612.	18.000	-18.000
2.250	42.132	9.	8541.	16.856	-18.974
2.251	42.132	9.	8541.	16.856	-18.974
2.251	39.372	7.	7713.	17.800	-17.800
3.000	39.372	7.	7713.	17.800	-17.800
3.000	39.372	7.	7713.	17.800	-17.800
4.000	39.372	7.	7713.	17.800	-17.800

GIRDER: S3

INPUT SECTION - 3n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC FRAC	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	Y-TOP (in)	Y-BOT (in)	Y-SLAB (in)	Y-REINF TOP (in)	Y-REINF BOT (in)
0.000	74.006	673.	19112.	9.376	-26.624	14.626	15.936	12.316
1.000	74.006	673.	19112.	9.376	-26.624	14.626	15.936	12.316
1.000	74.006	673.	19112.	9.376	-26.624	14.626	15.936	12.316
2.000	74.006	673.	19112.	9.376	-26.624	14.626	15.936	12.316
2.000	74.006	673.	19112.	9.376	-26.624	14.626	15.936	12.316
2.250	74.006	673.	19112.	9.376	-26.624	14.626	15.936	12.316
2.250	69.584	670.	16829.	8.135	-27.695	13.385	14.695	11.075
2.251	69.584	670.	16829.	8.135	-27.695	13.385	14.695	11.075
2.251	66.824	668.	16644.	8.236	-27.364	13.716	15.026	11.406
3.000	66.824	668.	16644.	8.236	-27.364	13.716	15.026	11.406
3.000	66.824	668.	16644.	8.236	-27.364	13.716	15.026	11.406
4.000	66.824	668.	16644.	8.236	-27.364	13.716	15.026	11.406

GIRDER: S3

INPUT SECTION - 3n-COMPOSITE SECTION PROPERTIES - NEGATIVE MOMENT

SPAN.LOC FRAC	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	Y-TOP (in)	Y-BOT (in)	Y-SLAB (in)	Y-REINF TOP (in)	Y-REINF BOT (in)
0.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
1.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
1.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
1.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
1.000	46.554	12.	9612.	18.000	-18.000	23.250	24.560	20.940
1.745	46.554	12.	9612.	18.000	-18.000	23.250	24.560	20.940
1.745	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
2.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
2.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
2.250	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494

□

----- SECTION PROPERTIES -----

GIRDER: S3 (Continued)

INPUT SECTION - 3n-COMPOSITE SECTION PROPERTIES - NEGATIVE MOMENT

SPAN.LOC	A FRAC (in ²)	Ixx (in ⁴)	Izz (in ⁴)	Y-TOP (in)	Y-BOT (in)	Y-SLAB (in)	Y-REINF TOP (in)	Y-REINF BOT (in)
2.250	47.684	9.	10892.	14.317	-21.513	19.567	20.877	17.257
2.251	47.684	9.	10892.	14.317	-21.513	19.567	20.877	17.257
2.251	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130
2.260	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130
2.260	39.372	7.	7713.	17.800	-17.800	23.280	24.590	20.970
3.000	39.372	7.	7713.	17.800	-17.800	23.280	24.590	20.970
3.000	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130
3.000	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130
3.000	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130
4.000	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130

GIRDER: S3

INPUT SECTION - 1n-COMPOSITE SECTION PROPERTIES - POSITIVE MOMENT

SPAN.LOC	A FRAC (in ²)	Ixx (in ⁴)	Izz (in ⁴)	Y-TOP (in)	Y-BOT (in)	Y-SLAB (in)	Y-REINF TOP (in)	Y-REINF BOT (in)
0.000	128.910	1995.	26185.	3.146	-32.854	8.396	9.706	6.086
1.000	128.910	1995.	26185.	3.146	-32.854	8.396	9.706	6.086
1.000	128.910	1995.	26185.	3.146	-32.854	8.396	9.706	6.086
2.000	128.910	1995.	26185.	3.146	-32.854	8.396	9.706	6.086
2.000	128.910	1995.	26185.	3.146	-32.854	8.396	9.706	6.086
2.250	128.910	1995.	26185.	3.146	-32.854	8.396	9.706	6.086
2.250	124.488	1992.	22658.	2.232	-33.598	7.482	8.792	5.172
2.251	124.488	1992.	22658.	2.232	-33.598	7.482	8.792	5.172
2.251	121.728	1990.	22646.	2.050	-33.550	7.530	8.840	5.220
3.000	121.728	1990.	22646.	2.050	-33.550	7.530	8.840	5.220
3.000	121.728	1990.	22646.	2.050	-33.550	7.530	8.840	5.220
4.000	121.728	1990.	22646.	2.050	-33.550	7.530	8.840	5.220

GIRDER: S3

INPUT SECTION - 1n-COMPOSITE SECTION PROPERTIES - NEGATIVE MOMENT

SPAN.LOC	A FRAC (in ²)	Ixx (in ⁴)	Izz (in ⁴)	Y-TOP (in)	Y-BOT (in)	Y-SLAB (in)	Y-REINF TOP (in)	Y-REINF BOT (in)
0.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
1.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
1.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
1.000	46.554	12.	9612.	18.000	-18.000	23.250	24.560	20.940
1.745	46.554	12.	9612.	18.000	-18.000	23.250	24.560	20.940
1.745	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
2.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
2.000	52.106	12.	12243.	15.554	-20.446	20.804	22.114	18.494
2.250	47.684	9.	10892.	14.317	-21.513	19.567	20.877	17.257
2.251	47.684	9.	10892.	14.317	-21.513	19.567	20.877	17.257
2.251	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130
2.260	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130
2.260	39.372	7.	7713.	17.800	-17.800	23.280	24.590	20.970
3.000	39.372	7.	7713.	17.800	-17.800	23.280	24.590	20.970
3.000	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130
3.000	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130
3.000	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130
4.000	44.924	7.	10301.	14.960	-20.640	20.440	21.750	18.130

□

----- SECTION PROPERTIES -----

GIRDER: S4

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	63.	9612.
1.800	46.554	63.	9612.
1.800	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	101.	9612.
2.201	46.554	101.	9612.
2.201	46.554	64.	9612.
2.250	46.554	64.	9612.
2.250	42.132	54.	8541.
2.251	42.132	54.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

GIRDER: S4

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	3n-COMPOSITE			1n-COMPOSITE		
	A	Ixx	Izz	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in ²)	(in ⁴)	(in ⁴)
0.000	74.006	3666.	19112.	128.910	6013.	26185.
0.769	74.006	3666.	19112.	128.910	6013.	26185.
0.769	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	74.006	1270.	19112.	128.910	3402.	26185.
1.744	74.006	1270.	19112.	128.910	3402.	26185.
1.744	52.106	1270.	12243.	52.106	3402.	12243.
1.800	52.106	1270.	12243.	52.106	3402.	12243.
1.800	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1391.	12243.	52.106	3565.	12243.
2.201	52.106	1391.	12243.	52.106	3565.	12243.
2.201	52.106	1271.	12243.	52.106	3404.	12243.
2.250	52.106	1271.	12243.	52.106	3404.	12243.
2.250	47.684	1229.	10892.	47.684	3344.	10892.
2.251	47.684	1229.	10892.	47.684	3344.	10892.
2.251	44.924	1226.	10301.	44.924	3342.	10301.
2.260	44.924	1226.	10301.	44.924	3342.	10301.
2.260	66.824	1226.	16644.	121.728	3342.	22646.
2.467	66.824	1226.	16644.	121.728	3342.	22646.
2.467	66.824	1225.	16644.	121.728	3341.	22646.
3.000	66.824	1225.	16644.	121.728	3341.	22646.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	66.824	3100.	16644.	121.728	5430.	22646.

----- SECTION PROPERTIES -----

GIRDER: S5

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	63.	9612.
1.800	46.554	63.	9612.
1.800	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	101.	9612.
2.200	46.554	101.	9612.
2.200	46.554	63.	9612.
2.250	46.554	63.	9612.
2.250	42.132	54.	8541.
2.251	42.132	54.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

GIRDER: S5

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	3n-COMPOSITE			1n-COMPOSITE		
	A	Ixx	Izz	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in ²)	(in ⁴)	(in ⁴)
0.000	74.006	3666.	19112.	128.910	6013.	26185.
0.769	74.006	3666.	19112.	128.910	6013.	26185.
0.769	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	3666.	12243.	52.106	6013.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	52.106	1270.	12243.	52.106	3402.	12243.
1.000	74.006	1270.	19112.	128.910	3402.	26185.
1.745	74.006	1270.	19112.	128.910	3402.	26185.
1.745	52.106	1270.	12243.	52.106	3402.	12243.
1.800	52.106	1270.	12243.	52.106	3402.	12243.
1.800	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1394.	12243.	52.106	3569.	12243.
2.000	52.106	1392.	12243.	52.106	3567.	12243.
2.200	52.106	1392.	12243.	52.106	3567.	12243.
2.200	52.106	1271.	12243.	52.106	3403.	12243.
2.250	52.106	1271.	12243.	52.106	3403.	12243.
2.250	47.684	1228.	10892.	47.684	3344.	10892.
2.251	47.684	1228.	10892.	47.684	3344.	10892.
2.251	44.924	1226.	10301.	44.924	3341.	10301.
2.260	44.924	1226.	10301.	44.924	3341.	10301.
2.260	66.824	1226.	16644.	121.728	3341.	22646.
2.467	66.824	1226.	16644.	121.728	3341.	22646.
2.467	66.824	1225.	16644.	121.728	3341.	22646.
3.000	66.824	1225.	16644.	121.728	3341.	22646.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	1225.	10301.	44.924	3341.	10301.
3.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	44.924	3100.	10301.	44.924	5430.	10301.
4.000	66.824	3100.	16644.	121.728	5430.	22646.

□

----- SECTION PROPERTIES -----

GIRDER: S6

NON-COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
0.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	931.	9612.
1.000	46.554	63.	9612.
1.800	46.554	63.	9612.
1.800	46.554	102.	9612.
2.000	46.554	102.	9612.
2.000	46.554	102.	9612.
2.200	46.554	102.	9612.
2.200	46.554	63.	9612.
2.250	46.554	63.	9612.
2.250	42.132	53.	8541.
2.251	42.132	53.	8541.
2.251	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	46.	7713.
3.000	39.372	711.	7713.
4.000	39.372	711.	7713.

GIRDER: S6

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	A (in ²)	3n-COMPOSITE		A (in ²)	1n-COMPOSITE	
		Ixx (in ⁴)	Izz (in ⁴)		Ixx (in ⁴)	Izz (in ⁴)
0.000	69.592	3464.	18082.	115.668	5449.	25065.
0.769	69.592	3464.	18082.	115.668	5449.	25065.
0.769	51.236	3469.	11868.	51.236	5463.	11868.
1.000	51.236	3469.	11868.	51.236	5463.	11868.
1.000	51.242	3470.	11871.	51.242	5467.	11871.
1.000	51.242	3470.	11871.	51.242	5467.	11871.
1.000	51.243	1100.	11871.	51.243	2911.	11871.
1.000	51.243	1100.	11871.	51.243	2911.	11871.
1.000	69.740	1100.	18118.	116.111	2911.	25106.
1.004	69.740	1100.	18118.	116.111	2911.	25106.
1.004	69.769	1101.	18125.	116.200	2914.	25115.
1.050	69.769	1101.	18125.	116.200	2914.	25115.
1.050	70.188	1118.	18228.	117.456	2963.	25230.
1.050	70.188	1118.	18228.	117.456	2963.	25230.
1.050	70.191	1118.	18229.	117.464	2963.	25231.
1.100	70.191	1118.	18229.	117.464	2963.	25231.
1.100	70.618	1135.	18332.	118.747	3012.	25346.
1.100	70.618	1135.	18332.	118.747	3012.	25346.
1.100	70.621	1135.	18333.	118.755	3013.	25347.
1.133	70.621	1135.	18333.	118.755	3013.	25347.
1.133	70.891	1146.	18398.	119.564	3044.	25418.
1.150	70.891	1146.	18398.	119.564	3044.	25418.
1.150	71.026	1151.	18430.	119.969	3059.	25454.
1.150	71.026	1151.	18430.	119.969	3059.	25454.
1.150	71.028	1151.	18431.	119.976	3060.	25455.
1.200	71.028	1151.	18431.	119.976	3060.	25455.
1.200	71.410	1167.	18521.	121.121	3104.	25554.
1.200	71.410	1167.	18521.	121.121	3104.	25554.
1.200	71.412	1167.	18522.	121.127	3104.	25554.
1.250	71.412	1167.	18522.	121.127	3104.	25554.
1.250	71.770	1181.	18606.	122.202	3145.	25646.
1.250	71.770	1181.	18606.	122.202	3145.	25646.
1.250	71.772	1181.	18606.	122.209	3145.	25646.
1.267	71.772	1181.	18606.	122.209	3145.	25646.
1.267	71.884	1186.	18632.	122.544	3158.	25675.

----- SECTION PROPERTIES -----

GIRDER: S6 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
1.300	71.884	1186.	18632.	122.544	3158.	25675.
1.300	72.107	1195.	18684.	123.214	3184.	25731.
1.300	72.107	1195.	18684.	123.214	3184.	25731.
1.300	72.109	1195.	18684.	123.220	3184.	25731.
1.350	72.109	1195.	18684.	123.220	3184.	25731.
1.350	72.421	1207.	18756.	124.156	3220.	25809.
1.350	72.421	1207.	18756.	124.156	3220.	25809.
1.350	72.423	1207.	18757.	124.162	3220.	25809.
1.376	72.423	1207.	18757.	124.162	3220.	25809.
1.376	72.575	1213.	18791.	124.617	3238.	25846.
1.400	72.575	1213.	18791.	124.617	3238.	25846.
1.400	72.712	1219.	18823.	125.029	3254.	25880.
1.400	72.712	1219.	18823.	125.029	3254.	25880.
1.400	72.714	1219.	18823.	125.034	3254.	25880.
1.450	72.714	1219.	18823.	125.034	3254.	25880.
1.450	72.980	1229.	18883.	125.831	3284.	25944.
1.450	72.980	1229.	18883.	125.831	3284.	25944.
1.450	72.981	1230.	18884.	125.836	3285.	25945.
1.500	72.981	1230.	18884.	125.836	3285.	25945.
1.500	73.224	1239.	18938.	126.564	3312.	26003.
1.500	73.224	1239.	18938.	126.564	3312.	26003.
1.500	73.225	1239.	18939.	126.568	3313.	26003.
1.533	73.225	1239.	18939.	126.568	3313.	26003.
1.533	73.372	1245.	18972.	127.007	3329.	26038.
1.550	73.372	1245.	18972.	127.007	3329.	26038.
1.550	73.445	1248.	18988.	127.227	3338.	26055.
1.550	73.445	1248.	18988.	127.227	3338.	26055.
1.550	73.446	1248.	18988.	127.231	3338.	26055.
1.600	73.446	1248.	18988.	127.231	3338.	26055.
1.600	73.643	1256.	19032.	127.820	3361.	26101.
1.600	73.643	1256.	19032.	127.820	3361.	26101.
1.600	73.644	1256.	19032.	127.824	3361.	26101.
1.650	73.644	1256.	19032.	127.824	3361.	26101.
1.650	73.817	1263.	19071.	128.344	3381.	26142.
1.650	73.817	1263.	19071.	128.344	3381.	26142.
1.650	73.818	1263.	19071.	128.347	3381.	26142.
1.667	73.818	1263.	19071.	128.347	3381.	26142.
1.667	73.868	1265.	19082.	128.497	3387.	26153.
1.700	73.868	1265.	19082.	128.497	3387.	26153.
1.700	73.968	1269.	19104.	128.797	3398.	26176.
1.700	73.968	1269.	19104.	128.797	3398.	26176.
1.700	73.969	1269.	19104.	128.800	3398.	26177.
1.746	73.969	1269.	19104.	128.800	3398.	26177.
1.746	74.085	1274.	19130.	129.147	3411.	26203.
1.746	74.085	1274.	19130.	129.147	3411.	26203.
1.746	52.122	1274.	12250.	52.122	3411.	12250.
1.750	52.122	1274.	12250.	52.122	3411.	12250.
1.750	52.124	1274.	12251.	52.124	3413.	12251.
1.800	52.124	1274.	12251.	52.124	3413.	12251.
1.800	52.146	1278.	12260.	52.146	3425.	12260.
1.800	52.146	1278.	12260.	52.146	3425.	12260.
1.800	52.146	1401.	12260.	52.146	3591.	12260.
1.850	52.146	1401.	12260.	52.146	3591.	12260.
1.850	52.162	1405.	12267.	52.162	3600.	12267.
1.900	52.162	1405.	12267.	52.162	3600.	12267.
1.900	52.174	1407.	12272.	52.174	3607.	12272.
1.950	52.174	1407.	12272.	52.174	3607.	12272.
1.950	52.181	1408.	12275.	52.181	3611.	12275.
1.996	52.181	1408.	12275.	52.181	3611.	12275.
1.996	52.183	1409.	12275.	52.183	3612.	12275.
2.000	52.183	1409.	12275.	52.183	3612.	12275.
2.000	52.183	1409.	12276.	52.183	3613.	12276.

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----- SECTION PROPERTIES -----

GIRDER: S6 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC FRAC	3n-COMPOSITE			1n-COMPOSITE		
	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)	A (in ²)	Ixx (in ⁴)	Izz (in ⁴)
2.000	52.183	1409.	12276.	52.183	3613.	12276.
2.004	52.183	1409.	12276.	52.183	3613.	12276.
2.004	52.183	1409.	12275.	52.183	3612.	12275.
2.050	52.183	1409.	12275.	52.183	3612.	12275.
2.050	52.181	1408.	12275.	52.181	3611.	12275.
2.100	52.181	1408.	12275.	52.181	3611.	12275.
2.100	52.174	1407.	12272.	52.174	3607.	12272.
2.150	52.174	1407.	12272.	52.174	3607.	12272.
2.150	52.162	1405.	12267.	52.162	3600.	12267.
2.200	52.162	1405.	12267.	52.162	3600.	12267.
2.200	52.146	1401.	12260.	52.146	3591.	12260.
2.200	52.146	1401.	12260.	52.146	3591.	12260.
2.200	52.146	1278.	12260.	52.146	3425.	12260.
2.250	52.146	1278.	12260.	52.146	3425.	12260.
2.250	52.124	1274.	12251.	52.124	3413.	12251.
2.250	52.124	1274.	12251.	52.124	3413.	12251.
2.250	47.702	1231.	10899.	47.702	3353.	10899.
2.251	47.702	1231.	10899.	47.702	3353.	10899.
2.251	44.942	1229.	10308.	44.942	3351.	10308.
2.258	44.942	1229.	10308.	44.942	3351.	10308.
2.258	44.938	1228.	10307.	44.938	3348.	10307.
2.258	44.938	1228.	10307.	44.938	3348.	10307.
2.258	66.893	1228.	16658.	121.935	3348.	22658.
2.300	66.893	1228.	16658.	121.935	3348.	22658.
2.300	66.787	1224.	16637.	121.618	3336.	22639.
2.300	66.787	1224.	16637.	121.618	3336.	22639.
2.300	66.786	1224.	16637.	121.615	3336.	22638.
2.333	66.786	1224.	16637.	121.615	3336.	22638.
2.333	66.686	1220.	16618.	121.315	3325.	22620.
2.350	66.686	1220.	16618.	121.315	3325.	22620.
2.350	66.636	1218.	16608.	121.165	3319.	22610.
2.350	66.636	1218.	16608.	121.165	3319.	22610.
2.350	66.635	1218.	16608.	121.162	3319.	22610.
2.400	66.635	1218.	16608.	121.162	3319.	22610.
2.400	66.462	1211.	16574.	120.642	3299.	22577.
2.400	66.462	1211.	16574.	120.642	3299.	22577.
2.400	66.461	1211.	16574.	120.638	3299.	22577.
2.450	66.461	1211.	16574.	120.638	3299.	22577.
2.450	66.264	1203.	16535.	120.049	3277.	22539.
2.450	66.264	1203.	16535.	120.049	3277.	22539.
2.450	66.263	1203.	16535.	120.045	3277.	22539.
2.467	66.263	1203.	16535.	120.045	3277.	22539.
2.467	66.190	1200.	16520.	119.825	3268.	22524.
2.500	66.190	1200.	16520.	119.825	3268.	22524.
2.500	66.043	1195.	16491.	119.386	3251.	22496.
2.500	66.043	1195.	16491.	119.386	3251.	22496.
2.500	66.042	1194.	16491.	119.382	3251.	22496.
2.550	66.042	1194.	16491.	119.382	3251.	22496.
2.550	65.799	1185.	16442.	118.654	3224.	22448.
2.550	65.799	1185.	16442.	118.654	3224.	22448.
2.550	65.798	1185.	16442.	118.649	3223.	22448.
2.600	65.798	1185.	16442.	118.649	3223.	22448.
2.600	65.532	1174.	16389.	117.852	3193.	22395.
2.600	65.532	1174.	16389.	117.852	3193.	22395.
2.600	65.530	1174.	16388.	117.847	3193.	22395.
2.626	65.530	1174.	16388.	117.847	3193.	22395.
2.626	65.381	1168.	16358.	117.400	3176.	22365.
2.650	65.381	1168.	16358.	117.400	3176.	22365.
2.650	65.241	1163.	16330.	116.980	3160.	22337.
2.650	65.241	1163.	16330.	116.980	3160.	22337.
2.650	65.239	1163.	16330.	116.974	3160.	22336.
2.700	65.239	1163.	16330.	116.974	3160.	22336.
2.700	64.927	1150.	16266.	116.038	3124.	22273.

----- SECTION PROPERTIES -----

GIRDER: S6 (Continued)

COMPOSITE SECTION PROPERTIES USED IN ANALYSIS

SPAN.LOC	3n-COMPOSITE			1n-COMPOSITE		
	A	Ixx	Izz	A	Ixx	Izz
FRAC	(in ²)	(in ⁴)	(in ⁴)	(in ²)	(in ⁴)	(in ⁴)
2.700	64.927	1150.	16266.	116.038	3124.	22273.
2.700	64.925	1150.	16265.	116.032	3124.	22272.
2.733	64.925	1150.	16265.	116.032	3124.	22272.
2.733	64.702	1142.	16219.	115.362	3098.	22226.
2.750	64.702	1142.	16219.	115.362	3098.	22226.
2.750	64.590	1137.	16196.	115.027	3085.	22203.
2.750	64.590	1137.	16196.	115.027	3085.	22203.
2.750	64.588	1137.	16196.	115.020	3085.	22203.
2.800	64.588	1137.	16196.	115.020	3085.	22203.
2.800	64.230	1123.	16121.	113.945	3044.	22127.
2.800	64.230	1123.	16121.	113.945	3044.	22127.
2.800	64.228	1123.	16121.	113.939	3044.	22127.
2.850	64.228	1123.	16121.	113.939	3044.	22127.
2.850	63.846	1108.	16040.	112.794	3000.	22045.
2.850	63.846	1108.	16040.	112.794	3000.	22045.
2.850	63.844	1108.	16040.	112.787	3000.	22045.
2.867	63.844	1108.	16040.	112.787	3000.	22045.
2.867	63.709	1102.	16011.	112.382	2984.	22015.
2.900	63.709	1102.	16011.	112.382	2984.	22015.
2.900	63.439	1092.	15953.	111.573	2954.	21956.
2.900	63.439	1092.	15953.	111.573	2954.	21956.
2.900	63.436	1091.	15953.	111.565	2953.	21956.
2.950	63.436	1091.	15953.	111.565	2953.	21956.
2.950	63.009	1074.	15860.	110.282	2904.	21860.
2.950	63.009	1074.	15860.	110.282	2904.	21860.
2.950	63.006	1074.	15860.	110.274	2904.	21860.
2.996	63.006	1074.	15860.	110.274	2904.	21860.
2.996	62.587	1058.	15768.	109.018	2856.	21764.
3.000	62.587	1058.	15768.	109.018	2856.	21764.
3.000	62.558	1057.	15761.	108.929	2853.	21758.
3.000	62.558	1057.	15761.	108.929	2853.	21758.
3.000	44.061	1057.	9941.	44.061	2853.	9941.
3.000	44.061	1057.	9941.	44.061	2853.	9941.
3.000	44.061	1056.	9941.	44.061	2852.	9941.
3.000	44.061	1056.	9941.	44.061	2852.	9941.
3.000	44.060	2909.	9941.	44.060	4889.	9941.
3.231	44.060	2909.	9941.	44.060	4889.	9941.
3.231	44.054	2908.	9938.	44.054	4885.	9938.
4.000	44.054	2908.	9938.	44.054	4885.	9938.
4.000	62.410	2903.	15729.	108.486	4871.	21723.

----- UNFACTORED MOMENT SUMMARY -----

GIRDER: 3

* * * UNFACTORED MOMENT SUMMARY (Based on Input Section) * * *

LL TEMPLATE NUMBER: 1

Note: Impact NOT Included, except for COMBINED.

LIVE LOAD: HL-93-ED

MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).

LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC	B-DC	DW	MAX	MIN	MAX	MIN	MIN	MAX	MIN	MAX	MIN
FRAC	MOMENT	MOMENT	MOMENT	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)	(ft-k)
	(ft-k)	(ft-k)	(ft-k)									
0.000	0	0	0	1	-2	0	-1	-2	1	-3		
0.769	0	0	0	1	-19	0	-1	-19	2	-27		
1.000	-1	0	0	1	-26	0	-1	-26	2	-35		
1.000	-1	0	0	1	-26	0	-1	-26	2	-35		
1.000	0	0	0	1	-25	1	-1	-25	2	-35		
1.050	90	10	23	133	-21	37	-3	0	214	-30		
1.100	167	18	43	231	-19	68	-6	0	376	-31		
1.133	212	23	55	282	-20	86	-8	0	460	-34		

----- UNFACTORED MOMENT SUMMARY -----

GIRDER: 3 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 1 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued) MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC MOMENT (ft-k)	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
1.150	232	26	60	303	-21	94	-9	0	497	-36		
1.200	284	32	73	354	-27	115	-12	0	586	-49		
1.250	323	36	84	388	-34	131	-15	0	647	-61		
1.267	333	37	87	396	-37	135	-16	0	662	-65		
1.300	348	39	91	416	-42	144	-18	0	697	-74		
1.350	361	41	95	436	-49	153	-22	0	733	-87		
1.372	362	41	96	442	-52	156	-23	0	744	-93		
1.400	360	A	B	C	445	159	-25	0	750	-100		
1.450	346	40	94	441	-64	160	-28	0	747	-114		
1.500	320	38	88	436	-72	157	-32	0	737	-128		
1.533	295	36	83	428	-78	153	-34	0	721	-138		
1.550	280	34	80	423	-81	151	-35	0	714	-143		
1.600	227	29	68	405	-90	142	-40	0	681	-159		
1.650	161	23	53	376	-100	129	-44	0	630	-177		
1.667	135	20	47	364	-103	124	-46	0	609	-183		
1.700	82	15	35	336	-111	112	-49	0	559	-197		
1.745	0	7	16	291	-122	93	-53	-123	480	-216		
1.750	-10	6	13	286	-123	91	-54	-124	471	-218		
1.800	-115	-5	-11	225	-137	65	-60	-137	363	-242		
1.801	-117	-5	-12	224	-137	64	-60	-137	362	-242		
1.850	-234	-17	-39	164	-154	37	-69	-158	256	-273		
1.900	-366	-30	-70	106	-173	15	-90	-211	156	-333		
1.900	-367	-30	-70	106	-173	15	-90	-211	156	-333		
1.950	-511	-45	-104	45	-193	3	-127	-276	63	-445		
2.000	-669	-60	-141	3	-219	0	-180	-350	4	-581		
2.000	A	B	C	3	-220	0	-180	-350	4	-581		
2.050	-513	-45	-104	44	-180	3	-128	-274	62	-442		
2.100	-370	-30	-70	102	-160	14	-89	-210	149	-332		
2.101	-368	-30	-69	101	-159	14	-89	-209	149	-331		
2.150	-239	-17	-39	157	-143	33	-66	-156	242	-257		
2.200	-122	-5	-11	212	-127	58	-55	-127	340	-224		
2.201	-120	-5	-11	212	-126	58	-55	-126	340	-223		
2.250	-19	6	13	271	-114	84	-50	-114	444	-201		
2.250	-19	6	13	269	-114	84	-50	-114	442	-201		
2.251	-17	6	14	271	-113	84	-50	-114	444	-200		
2.260	0	8	18	281	-111	88	-49	-112	462	-197		
2.300	72	15	35	321	-102	106	-45	0	532	-181		
2.334	126	20	48	349	-95	118	-42	0	582	-168		
2.350	149	23	53	360	-91	123	-40	0	602	-162		
2.400	215	29	68	389	-82	135	-36	0	653	-145		
2.450	267	34	80	408	-73	144	-32	0	686	-129		
2.467	282	36	83	412	-70	146	-31	0	694	-124		
2.500	307	38	89	421	-65	150	-29	0	710	-115		
2.550	333	40	94	427	-58	153	-26	0	721	-103		
2.600	347	41	96	431	-51	153	-23	0	726	-91		
2.630	349	41	96	429	-47	150	-21	0	720	-83		
2.650	348	41	95	423	-44	148	-20	0	711	-79		
2.700	337	39	91	404	-38	139	-17	0	677	-67		
2.733	322	37	87	385	-33	131	-15	0	643	-59		
2.750	312	36	84	378	-31	127	-14	0	630	-55		
2.800	275	32	74	346	-25	112	-11	0	572	-44		
2.850	225	26	60	298	-18	92	-8	0	488	-33		
2.867	206	23	55	277	-17	84	-7	0	452	-30		
2.900	162	18	43	228	-17	67	-6	0	370	-28		
2.950	87	10	23	132	-19	36	-3	0	212	-28		
3.000	0	0	0	1	-23	0	-1	-22	2	-31		
3.000	-1	0	0	1	-23	0	-1	-23	1	-31		

**NOTE: FORCE
 CHECKS BASED ON
 AISCS MOMENTS &
 SHEARS TABLE 2.0
 FROM 1966 EDITION.
 DISTRIBUTION
 FACTORS PROVIDED
 TO CHECK LL
 MOMENT IN
 POSITIVE REGIONS.
 M-DF=0.508
 V-DF=0.779**

**CHECK MOMENTS PER
 AISCS MSR TABLE:**

**A:(0.0703)(1.04)
 (70^2)=358.2 FT-K**

**B:(0.0703)(0.111)
 (70^2)=38.2 FT-K**

**C:(0.0703)(0.258)
 (70^2)=88.9 FT-K**

A:(-0.125)(1.04)(70^2)=-637 FT-K

B:(-0.125)(0.111)(70^2)=-68 FT-K

C:(-0.125)(0.258)(70^2)=-158 FT-K

**Difference in moments due to
 BDGS grid analysis**

----- UNFACTORED MOMENT SUMMARY -----

GIRDER: 3 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 1 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued) MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC MOMENT (ft-k)	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
3.000	-1	0	0	0	-22	0	0	-22	0	-29		
3.231	0	0	0	0	-16	0	0	-16	0	-22		
4.000	0	0	0	0	0	0	0	0	0	0		

GIRDER: 3 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 2 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC MOMENT (ft-k)	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
0.000	0	0	0	1	-2	0	-1	-2	1	-3		
0.769	0	0	0	1	-19	0	-1	-19	2	-27		
1.000	-1	0	0	1	-26	0	-1	-26	2	-35		
1.000	-1	0	0	1	-26	0	-1	-26	2	-35		
1.000	0	0	0	1	-25	1	-1	-25	2	-35		
1.050	90	10	23	133	-21	37	-3	0	214	-30		
1.100	167	18	43	231	-19	68	-6	0	376	-31		
1.133	212	23	55	282	-20	86	-8	0	460	-34		
1.150	232	26	60	303	-21	94	-9	0	497	-36		
1.200	284	32	73	354	-27	115	-12	0	586	-49		
1.250	323	36	84	388	-34	131	-15	0	647	-61		
1.267	333	37	87	396	-37	135	-16	0	662	-65		
1.300	348	39	91	416	-42	144	-18	0	697	-74		
1.350	361	41	95	436	-49	153	-22	0	733	-87		
1.372	362	41	96	442	-52	156	-23	0	744	-93		
1.400	360	41	96	445	-57	159	-25	0	750	-100		
1.450	346	40	94	441	-64	160	-28	0	747	-114		
1.500	320	38	88	436	-72	157	-32	0	737	-128		
1.533	295	36	83	428	-78	153	-34	0	721	-138		
1.550	280	34	80	423	-81	151	-35	0	714	-143		
1.600	227	29	68	405	-90	142	-40	0	681	-159		
1.650	161	23	53	376	-100	129	-44	0	630	-177		
1.667	135	20	47	364	-103	124	-46	0	609	-183		
1.700	82	15	35	336	-111	112	-49	0	559	-197		
1.745	0	7	16	291	-122	93	-53	-123	480	-216		
1.750	-10	6	13	286	-123	91	-54	-124	471	-218		
1.800	-115	-5	-11	225	-137	65	-60	-137	363	-242		
1.801	-117	-5	-12	224	-137	64	-60	-137	362	-242		
1.850	-234	-17	-39	164	-154	37	-69	-158	256	-273		
1.900	-366	-30	-70	106	-173	15	-90	-211	156	-333		
1.900	-367	-30	-70	106	-173	15	-90	-211	156	-333		
1.950	-511	-45	-104	45	-193	3	-127	-276	63	-445		
2.000	-669	-60	-141	3	-219	0	-180	-350	4	-581		
2.000	-669	-60	-141	3	-220	0	-180	-350	4	-581		
2.050	-513	-45	-104	44	-180	3	-128	-274	62	-442		
2.100	-370	-30	-70	102	-160	14	-89	-210	149	-332		
2.101	-368	-30	-69	101	-159	14	-89	-209	149	-331		
2.150	-239	-17	-39	157	-143	33	-66	-156	242	-257		
2.200	-122	-5	-11	212	-127	58	-55	-127	340	-224		
2.201	-120	-5	-11	212	-126	58	-55	-126	340	-223		
2.250	-19	6	13	271	-114	84	-50	-114	444	-201		
2.250	-19	6	13	269	-114	84	-50	-114	442	-201		
2.251	-17	6	14	271	-113	84	-50	-114	444	-200		
2.260	0	8	18	281	-111	88	-49	-112	462	-197		

----- UNFACTORED MOMENT SUMMARY -----

GIRDER: 3 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *

LL TEMPLATE NUMBER: 2 Note: Impact NOT Included, except for COMBINED.

LIVE LOAD: HL-93-ED (Continued) MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).

LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC FRAC	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
2.300	72	15	35	321	-102	106	-45	0	532	-181		
2.334	126	20	48	349	-95	118	-42	0	582	-168		
2.350	149	23	53	360	-91	123	-40	0	602	-162		
2.400	215	29	68	389	-82	135	-36	0	653	-145		
2.450	267	34	80	408	-73	144	-32	0	686	-129		
2.467	282	36	83	412	-70	146	-31	0	694	-124		
2.500	307	38	89	421	-65	150	-29	0	710	-115		
2.550	333	40	94	427	-58	153	-26	0	721	-103		
2.600	347	41	96	431	-51	153	-23	0	726	-91		
2.630	349	41	96	429	-47	150	-21	0	720	-83		
2.650	348	41	95	423	-44	148	-20	0	711	-79		
2.700	337	39	91	404	-38	139	-17	0	677	-67		
2.733	322	37	87	385	-33	131	-15	0	643	-59		
2.750	312	36	84	378	-31	127	-14	0	630	-55		
2.800	275	32	74	346	-25	112	-11	0	572	-44		
2.850	225	26	60	298	-18	92	-8	0	488	-33		
2.867	206	23	55	277	-17	84	-7	0	452	-30		
2.900	162	18	43	228	-17	67	-6	0	370	-28		
2.950	87	10	23	132	-19	36	-3	0	212	-28		
3.000	0	0	0	1	-23	0	-1	-22	2	-31		
3.000	-1	0	0	1	-23	0	-1	-23	1	-31		
3.000	-1	0	0	0	-22	0	0	-22	0	-29		
3.231	0	0	0	0	-16	0	0	-16	0	-22		
4.000	0	0	0	0	0	0	0	0	0	0		

GIRDER: 3 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *

LL TEMPLATE NUMBER: 3 Note: Impact NOT Included, except for COMBINED.

LIVE LOAD: HL-93-ED MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).

LANE POSITION: ONE LANE WITH IMPACT

SPAN.LOC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC FRAC	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
0.000	0	0	0								0	-1
0.769	0	0	0								0	-13
1.000	-1	0	0								0	-17
1.000	-1	0	0								0	-17
1.000	0	0	0								0	-17
1.050	90	10	23								69	-14
1.100	167	18	43								116	-12
1.133	212	23	55								138	-10
1.150	232	26	60								147	-10
1.200	284	32	73								165	-12
1.250	323	36	84								180	-15
1.267	333	37	87								183	-16
1.300	348	39	91								192	-18
1.350	361	41	95								199	-21
1.372	362	41	96								200	-23
1.400	360	41	96								200	-24
1.450	346	40	94								196	-27
1.500	320	38	88								192	-31
1.533	295	36	83								190	-33
1.550	280	34	80								190	-34
1.600	227	29	68								187	-37
1.650	161	23	53								177	-42
1.667	135	20	47								172	-43

----- UNFACTORED MOMENT SUMMARY -----

GIRDER: 3 * * * UNFACTORED MOMENT SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 3 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued) MIN COMBINED is the larger of: (1.33×TRK+LANE) and 0.9×(1.33×DTRK+LANE).
 LANE POSITION: ONE LANE WITH IMPACT

SPAN.LOC	DEAD LOAD			HL93 TRUCK		HL93 LANE		DOUBLE TRUCK	COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC FRAC MOMENT (ft-k)	B-DC MOMENT (ft-k)	DW MOMENT (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)	MAX (ft-k)	MIN (ft-k)
1.700	82	15	35								160	-47
1.745	0	7	16								138	-51
1.750	-10	6	13								135	-52
1.800	-115	-5	-11								105	-58
1.801	-117	-5	-12								105	-59
1.850	-234	-17	-39								84	-67
1.900	-366	-30	-70								59	-77
1.900	-367	-30	-70								59	-78
1.950	-511	-45	-104								32	-89
2.000	-669	-60	-141								1	-129
2.000	-669	-60	-141								1	-130
2.050	-513	-45	-104								32	-85
2.100	-370	-30	-70								58	-73
2.101	-368	-30	-69								58	-72
2.150	-239	-17	-39								81	-63
2.200	-122	-5	-11								100	-54
2.201	-120	-5	-11								100	-54
2.250	-19	6	13								128	-48
2.250	-19	6	13								128	-48
2.251	-17	6	14								128	-48
2.260	0	8	18								134	-47
2.300	72	15	35								153	-43
2.334	126	20	48								165	-39
2.350	149	23	53								170	-38
2.400	215	29	68								180	-34
2.450	267	34	80								183	-31
2.467	282	36	83								183	-30
2.500	307	38	89								185	-28
2.550	333	40	94								190	-25
2.600	347	41	96								194	-22
2.630	349	41	96								194	-20
2.650	348	41	95								193	-19
2.700	337	39	91								186	-17
2.733	322	37	87								178	-15
2.750	312	36	84								175	-14
2.800	275	32	74								161	-11
2.850	225	26	60								144	-10
2.867	206	23	55								135	-10
2.900	162	18	43								115	-12
2.950	87	10	23								69	-14
3.000	0	0	0								0	-17
3.000	-1	0	0								0	-17
3.000	-1	0	0								0	-17
3.231	0	0	0								0	-13
4.000	0	0	0								0	0

----- UNFACTORED SHEAR SUMMARY -----

GIRDER: 3 * * * UNFACTORED SHEAR SUMMARY (Based on Input Section) * * *
 LL TEMPLATE NUMBER: 1 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
0.000	0.0	0.0	0.0	0.3	-19.9	0.1	-0.3	0.6	-26.8		
0.769	-0.9	-0.1	-0.2	0.3	-26.9	0.1	-0.7	0.6	-36.5		
1.000	-1.1	-0.1	-0.3	0.3	-26.9	0.1	-0.8	0.6	-36.6		
1.000	27.7	3.0	7.1	44.1	-2.0	11.7	-0.9	70.4	-3.6		
1.000	27.7	3.0	7.1	44.1	-2.0	11.7	-0.9	70.3	-3.6		
1.050	24.0	2.6	6.2	38.8	-4.0	10.2	-1.0	61.7	-6.3		
1.100	20.3	2.3	5.3	34.5	-7.1	8.9	-1.3	54.7	-10.8		
1.133	17.9	2.0	4.6	31.5	-9.3	8.1	-1.6	50.0	-13.9		
1.150	16.6	1.9	4.3	30.9	-10.7	7.8	-1.8	49.0	-16.0		
1.200	13.0	1.5	3.4	28.2	-13.3	6.9	-2.3	44.4	-20.0		
1.250	9.3	1.1	2.5	25.7	-15.4	6.1	-2.8	40.2	-23.2		
1.267	8.0	1.0	2.2	26.8	-15.2	6.0	-2.9	41.7	-23.0		
1.300	5.3	0.7	1.6	25.8	-15.4	5.6	-3.0	39.9	-23.5		
1.350	1.7	0.3	0.7	23.7	-17.6	4.9	-3.6	36.5	-27.0		
1.372	0.0	0.1	0.3	22.1	-17.7	4.5	-3.8	33.9	-27.3		
1.400	-2.0	-0.1	-0.2	21.7	-19.6	4.3	-4.3	33.2	-30.4		
1.450	-5.7	-0.5	-1.1	19.7	-21.7	3.7	-4.9	29.9	-33.8		
1.500	-9.4	-0.9	-2.0	17.7	-23.9	3.1	-5.6	26.7	-37.4		
1.533	-12.2	-1.1	-2.6	17.8	-24.8	3.0	-6.1	26.7	-39.1		
1.550	-13.4	-1.3	-2.9	18.1	-23.5	3.0	-6.1	27.0	-37.4		
1.600	-17.1	-1.6	-3.8	15.3	-25.6	2.5	-6.9	22.9	-41.0		
1.650	-20.8	-2.0	-4.7	13.2	-27.7	2.1	-7.8	19.6	-44.6		
1.667	-22.0	-2.2	-5.1	12.1	-27.5	1.8	-8.0	17.9	-44.6		
1.700	-24.4	-2.4	-5.6	11.0	-29.9	1.7	-8.7	16.3	-48.5		
1.745	-27.7	-2.8	-6.5	8.2	-31.9	1.1	-9.6	12.0	-52.0		
1.750	-28.1	-2.8	-6.6	9.0	-32.3	1.3	-9.7	13.3	-52.6		
1.800	-31.8	-3.2	-7.5	6.9	-34.8	1.0	-10.9	10.1	-57.1		
1.801	-32.2	-3.2	-7.5	8.7	-33.7	1.3	-11.0	12.9	-55.8		
1.850	-35.8	-3.6	-8.4	7.2	-35.7	0.8	-12.2	10.3	-59.7		
1.900	-39.5	-4.0	-9.3	5.1	-38.8	0.5	-13.7	7.2	-65.3		
1.900	-39.5	-4.0	-9.3	5.1	-38.3	0.5	-13.7	7.2	-64.6		
1.950	-43.2	-4.4	-10.2	2.9	-42.3	0.4	-15.4	4.3	-71.6		
2.000	-46.9	-4.8	-11.1	1.0	-46.2	0.3	-16.9	1.7	-78.3		

**CHECK SHEARS PER AISC
MSR TABLE 2.0**

2.000	46.4	4.8	11.1	46.2	-1.0	16.8	-0.4	78.2	-1.7
2.050	42.7	4.4	10.2	42.3	-2.9	15.2	-0.4	71.5	-4.3
2.100	39.0	4.0	9.3	38.8	-5.5	13.6	-0.5	65.1	-7.8
2.101	39.0	4.0	9.3	38.7	-4.8	13.4	-0.4	64.9	-6.8
2.150	35.3	3.6	8.4	35.6	-8.8	12.1	-0.8	59.5	-12.5
2.200	31.7	3.2	7.5	32.8	-11.4	10.8	-1.3	54.4	-16.4
2.201	31.6	3.2	7.4	34.6	-10.0	10.8	-1.1	56.8	-14.4
2.250	27.6	2.8	6.6	30.9	-10.7	9.6	-1.3	50.7	-15.5
2.250	27.6	2.8	6.6	32.3	-9.1	9.6	-1.1	52.5	-13.2
2.251	27.6	2.8	6.5	32.2	-9.2	9.6	-1.1	52.4	-13.3
2.260	26.9	2.7	6.4	31.5	-9.7	9.4	-1.2	51.3	-14.1
2.300	24.0	2.4	5.7	29.9	-12.3	8.6	-1.7	48.4	-18.0
2.334	21.6	2.2	5.0	27.4	-13.0	7.8	-1.8	44.3	-19.2
2.350	20.4	2.0	4.7	27.7	-14.1	7.6	-2.1	44.5	-20.9
2.400	16.8	1.6	3.8	25.7	-16.0	6.8	-2.5	40.9	-23.8
2.450	13.2	1.3	2.9	23.6	-18.0	6.0	-3.0	37.3	-26.9
2.467	12.0	1.1	2.6	24.9	-17.7	6.0	-3.0	39.2	-26.5
2.500	9.4	0.9	2.0	24.0	-17.5	5.6	-3.1	37.5	-26.3
2.550	5.8	0.5	1.1	21.8	-19.4	4.9	-3.6	33.9	-29.5
2.600	2.2	0.1	0.2	19.8	-21.4	4.2	-4.2	30.5	-32.7
2.630	0.0	-0.1	-0.3	17.7	-21.9	3.7	-4.4	27.2	-33.6
2.650	-1.4	-0.3	-0.7	17.8	-23.4	3.6	-4.8	27.2	-35.9
2.700	-5.1	-0.7	-1.6	15.5	-25.4	2.9	-5.5	23.6	-39.3
2.733	-7.7	-1.0	-2.2	15.4	-26.4	2.8	-5.9	23.3	-41.0

A:(0.625)(1.04)(70)=45.5 K

B:(0.625)(0.111)(70)=4.9 K

C:(0.625)(0.258)(70)=11.3 K

----- UNFACTORED SHEAR SUMMARY -----

GIRDER: 3 * * * UNFACTORED SHEAR SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 1 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued)
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
2.750	-8.9	-1.1	-2.5	15.6	-25.2	2.7	-5.9	23.5	-39.4		
2.800	-12.5	-1.5	-3.5	13.6	-27.6	2.2	-6.7	20.3	-43.5		
2.850	-16.1	-1.9	-4.4	11.0	-30.4	1.7	-7.6	16.3	-48.1		
2.867	-17.3	-2.0	-4.7	9.5	-30.9	1.5	-7.8	14.2	-49.0		
2.900	-19.7	-2.3	-5.3	7.4	-33.9	1.2	-8.6	11.1	-53.8		
2.950	-23.3	-2.6	-6.2	4.0	-38.3	0.9	-9.9	6.2	-60.9		
3.000	-26.9	-3.0	-7.1	1.8	-43.4	0.8	-11.4	3.2	-69.1		
3.000	-26.9	-3.0	-7.1	1.8	-43.4	0.8	-11.4	3.2	-69.2		
3.000	1.1	0.1	0.3	26.4	0.0	0.4	0.0	35.5	0.0		
3.231	0.9	0.1	0.2	26.4	0.0	0.3	0.0	35.4	0.0		
4.000	0.0	0.0	0.0	19.6	0.0	0.0	0.0	26.1	0.0		

GIRDER: 3 * * * UNFACTORED SHEAR SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 2 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
0.000	0.0	0.0	0.0	0.3	-19.9	0.1	-0.3	0.6	-26.8		
0.769	-0.9	-0.1	-0.2	0.3	-26.9	0.1	-0.7	0.6	-36.5		
1.000	-1.1	-0.1	-0.3	0.3	-26.9	0.1	-0.8	0.6	-36.6		
1.000	27.7	3.0	7.1	44.1	-2.0	11.7	-0.9	70.4	-3.6		
1.000	27.7	3.0	7.1	44.1	-2.0	11.7	-0.9	70.3	-3.6		
1.050	24.0	2.6	6.2	38.8	-4.0	10.2	-1.0	61.7	-6.3		
1.100	20.3	2.3	5.3	34.5	-7.1	8.9	-1.3	54.7	-10.8		
1.133	17.9	2.0	4.6	31.5	-9.3	8.1	-1.6	50.0	-13.9		
1.150	16.6	1.9	4.3	30.9	-10.7	7.8	-1.8	49.0	-16.0		
1.200	13.0	1.5	3.4	28.2	-13.3	6.9	-2.3	44.4	-20.0		
1.250	9.3	1.1	2.5	25.7	-15.4	6.1	-2.8	40.2	-23.2		
1.267	8.0	1.0	2.2	26.8	-15.2	6.0	-2.9	41.7	-23.0		
1.300	5.3	0.7	1.6	25.8	-15.4	5.6	-3.0	39.9	-23.5		
1.350	1.7	0.3	0.7	23.7	-17.6	4.9	-3.6	36.5	-27.0		
1.372	0.0	0.1	0.3	22.1	-17.7	4.5	-3.8	33.9	-27.3		
1.400	-2.0	-0.1	-0.2	21.7	-19.6	4.3	-4.3	33.2	-30.4		
1.450	-5.7	-0.5	-1.1	19.7	-21.7	3.7	-4.9	29.9	-33.8		
1.500	-9.4	-0.9	-2.0	17.7	-23.9	3.1	-5.6	26.7	-37.4		
1.533	-12.2	-1.1	-2.6	17.8	-24.8	3.0	-6.1	26.7	-39.1		
1.550	-13.4	-1.3	-2.9	18.1	-23.5	3.0	-6.1	27.0	-37.4		
1.600	-17.1	-1.6	-3.8	15.3	-25.6	2.5	-6.9	22.9	-41.0		
1.650	-20.8	-2.0	-4.7	13.2	-27.7	2.1	-7.8	19.6	-44.6		
1.667	-22.0	-2.2	-5.1	12.1	-27.5	1.8	-8.0	17.9	-44.6		
1.700	-24.4	-2.4	-5.6	11.0	-29.9	1.7	-8.7	16.3	-48.5		
1.745	-27.7	-2.8	-6.5	8.2	-31.9	1.1	-9.6	12.0	-52.0		
1.750	-28.1	-2.8	-6.6	9.0	-32.3	1.3	-9.7	13.3	-52.6		
1.800	-31.8	-3.2	-7.5	6.9	-34.8	1.0	-10.9	10.1	-57.1		
1.801	-32.2	-3.2	-7.5	8.7	-33.7	1.3	-11.0	12.9	-55.8		
1.850	-35.8	-3.6	-8.4	7.2	-35.7	0.8	-12.2	10.3	-59.7		
1.900	-39.5	-4.0	-9.3	5.1	-38.8	0.5	-13.7	7.2	-65.3		
1.900	-39.5	-4.0	-9.3	5.1	-38.3	0.5	-13.7	7.2	-64.6		
1.950	-43.2	-4.4	-10.2	2.9	-42.3	0.4	-15.4	4.3	-71.6		
2.000	-46.9	-4.8	-11.1	1.0	-46.2	0.3	-16.9	1.7	-78.3		
2.000	46.4	4.8	11.1	46.2	-1.0	16.8	-0.4	78.2	-1.7		
2.050	42.7	4.4	10.2	42.3	-2.9	15.2	-0.4	71.5	-4.3		

----- UNFACTORED SHEAR SUMMARY -----

GIRDER: 3 * * * UNFACTORED SHEAR SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 2 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued)
 LANE POSITION: MULTIPLE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
2.100	39.0	4.0	9.3	38.8	-5.5	13.6	-0.5	65.1	-7.8		
2.101	39.0	4.0	9.3	38.7	-4.8	13.4	-0.4	64.9	-6.8		
2.150	35.3	3.6	8.4	35.6	-8.8	12.1	-0.8	59.5	-12.5		
2.200	31.7	3.2	7.5	32.8	-11.4	10.8	-1.3	54.4	-16.4		
2.201	31.6	3.2	7.4	34.6	-10.0	10.8	-1.1	56.8	-14.4		
2.250	27.6	2.8	6.6	30.9	-10.7	9.6	-1.3	50.7	-15.5		
2.250	27.6	2.8	6.6	32.3	-9.1	9.6	-1.1	52.5	-13.2		
2.251	27.6	2.8	6.5	32.2	-9.2	9.6	-1.1	52.4	-13.3		
2.260	26.9	2.7	6.4	31.5	-9.7	9.4	-1.2	51.3	-14.1		
2.300	24.0	2.4	5.7	29.9	-12.3	8.6	-1.7	48.4	-18.0		
2.334	21.6	2.2	5.0	27.4	-13.0	7.8	-1.8	44.3	-19.2		
2.350	20.4	2.0	4.7	27.7	-14.1	7.6	-2.1	44.5	-20.9		
2.400	16.8	1.6	3.8	25.7	-16.0	6.8	-2.5	40.9	-23.8		
2.450	13.2	1.3	2.9	23.6	-18.0	6.0	-3.0	37.3	-26.9		
2.467	12.0	1.1	2.6	24.9	-17.7	6.0	-3.0	39.2	-26.5		
2.500	9.4	0.9	2.0	24.0	-17.5	5.6	-3.1	37.5	-26.3		
2.550	5.8	0.5	1.1	21.8	-19.4	4.9	-3.6	33.9	-29.5		
2.600	2.2	0.1	0.2	19.8	-21.4	4.2	-4.2	30.5	-32.7		
2.630	0.0	-0.1	-0.3	17.7	-21.9	3.7	-4.4	27.2	-33.6		
2.650	-1.4	-0.3	-0.7	17.8	-23.4	3.6	-4.8	27.2	-35.9		
2.700	-5.1	-0.7	-1.6	15.5	-25.4	2.9	-5.5	23.6	-39.3		
2.733	-7.7	-1.0	-2.2	15.4	-26.4	2.8	-5.9	23.3	-41.0		
2.750	-8.9	-1.1	-2.5	15.6	-25.2	2.7	-5.9	23.5	-39.4		
2.800	-12.5	-1.5	-3.5	13.6	-27.6	2.2	-6.7	20.3	-43.5		
2.850	-16.1	-1.9	-4.4	11.0	-30.4	1.7	-7.6	16.3	-48.1		
2.867	-17.3	-2.0	-4.7	9.5	-30.9	1.5	-7.8	14.2	-49.0		
2.900	-19.7	-2.3	-5.3	7.4	-33.9	1.2	-8.6	11.1	-53.8		
2.950	-23.3	-2.6	-6.2	4.0	-38.3	0.9	-9.9	6.2	-60.9		
3.000	-26.9	-3.0	-7.1	1.8	-43.4	0.8	-11.4	3.2	-69.1		
3.000	-26.9	-3.0	-7.1	1.8	-43.4	0.8	-11.4	3.2	-69.2		
3.000	1.1	0.1	0.3	26.4	0.0	0.4	0.0	35.5	0.0		
3.231	0.9	0.1	0.2	26.4	0.0	0.3	0.0	35.4	0.0		
4.000	0.0	0.0	0.0	19.6	0.0	0.0	0.0	26.1	0.0		

GIRDER: 3 * * * UNFACTORED SHEAR SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 3 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED
 LANE POSITION: ONE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
0.000	0.0	0.0	0.0							0.1	-15.5
0.769	-0.9	-0.1	-0.2							0.1	-19.5
1.000	-1.1	-0.1	-0.3							0.1	-19.5
1.000	27.7	3.0	7.1							23.9	-0.9
1.000	27.7	3.0	7.1							23.9	-0.9
1.050	24.0	2.6	6.2							20.4	-2.9
1.100	20.3	2.3	5.3							17.8	-5.3
1.133	17.9	2.0	4.6							15.9	-6.3
1.150	16.6	1.9	4.3							15.8	-7.0
1.200	13.0	1.5	3.4							14.2	-8.3
1.250	9.3	1.1	2.5							12.8	-9.7
1.267	8.0	1.0	2.2							13.9	-9.5
1.300	5.3	0.7	1.6							13.4	-9.1
1.350	1.7	0.3	0.7							12.3	-10.1

----- UNFACTORED SHEAR SUMMARY -----

GIRDER: 3 * * * UNFACTORED SHEAR SUMMARY (Continued) * * *
 LL TEMPLATE NUMBER: 3 Note: Impact NOT Included, except for COMBINED.
 LIVE LOAD: HL-93-ED (Continued)
 LANE POSITION: ONE LANE WITH IMPACT

SPAN.LOC FRAC	DEAD LOAD			HL93 TRUCK		HL93 LANE		COMBINED TRUCK+LANE		FATIGUE TRUCK	
	A-DC SHEAR (kips)	B-DC SHEAR (kips)	DW SHEAR (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)	MAX (kips)	MIN (kips)
1.372	0.0	0.1	0.3							11.3	-9.8
1.400	-2.0	-0.1	-0.2							11.4	-10.9
1.450	-5.7	-0.5	-1.1							10.6	-11.7
1.500	-9.4	-0.9	-2.0							9.8	-12.5
1.533	-12.2	-1.1	-2.6							10.3	-12.7
1.550	-13.4	-1.3	-2.9							10.8	-11.6
1.600	-17.1	-1.6	-3.8							9.2	-12.8
1.650	-20.8	-2.0	-4.7							8.4	-14.0
1.667	-22.0	-2.2	-5.1							7.8	-13.7
1.700	-24.4	-2.4	-5.6							7.6	-15.3
1.745	-27.7	-2.8	-6.5							5.9	-16.5
1.750	-28.1	-2.8	-6.6							6.8	-16.7
1.800	-31.8	-3.2	-7.5							5.8	-18.2
1.801	-32.2	-3.2	-7.5							7.3	-17.3
1.850	-35.8	-3.6	-8.4							6.0	-18.4
1.900	-39.5	-4.0	-9.3							4.2	-20.5
1.900	-39.5	-4.0	-9.3							4.2	-20.0
1.950	-43.2	-4.4	-10.2							2.1	-23.0
2.000	-46.9	-4.8	-11.1							0.6	-25.8
2.000	46.4	4.8	11.1							25.8	-0.6
2.050	42.7	4.4	10.2							23.0	-2.1
2.100	39.0	4.0	9.3							20.5	-4.2
2.101	39.0	4.0	9.3							20.4	-3.7
2.150	35.3	3.6	8.4							18.3	-5.9
2.200	31.7	3.2	7.5							16.5	-7.3
2.201	31.6	3.2	7.4							18.1	-6.4
2.250	27.6	2.8	6.6							15.6	-7.0
2.250	27.6	2.8	6.6							16.7	-5.9
2.251	27.6	2.8	6.5							16.7	-5.9
2.260	26.9	2.7	6.4							16.2	-6.3
2.300	24.0	2.4	5.7							15.3	-8.0
2.334	21.6	2.2	5.0							13.6	-8.3
2.350	20.4	2.0	4.7							14.0	-8.9
2.400	16.8	1.6	3.8							12.8	-9.9
2.450	13.2	1.3	2.9							11.6	-10.7
2.467	12.0	1.1	2.6							12.8	-10.3
2.500	9.4	0.9	2.0							12.6	-9.7
2.550	5.8	0.5	1.1							11.8	-10.5
2.600	2.2	0.1	0.2							11.0	-11.3
2.630	0.0	-0.1	-0.3							9.8	-11.3
2.650	-1.4	-0.3	-0.7							10.2	-12.2
2.700	-5.1	-0.7	-1.6							9.2	-13.3
2.733	-7.7	-1.0	-2.2							9.6	-13.7
2.750	-8.9	-1.1	-2.5							9.9	-12.6
2.800	-12.5	-1.5	-3.5							8.5	-14.0
2.850	-16.1	-1.9	-4.4							7.2	-15.6
2.867	-17.3	-2.0	-4.7							6.4	-15.6
2.900	-19.7	-2.3	-5.3							5.5	-17.5
2.950	-23.3	-2.6	-6.2							3.0	-20.2
3.000	-26.9	-3.0	-7.1							0.8	-23.4
3.000	-26.9	-3.0	-7.1							0.8	-23.4
3.000	1.1	0.1	0.3							19.2	0.0
3.231	0.9	0.1	0.2							19.2	0.0
4.000	0.0	0.0	0.0							15.4	0.0

□

----- LOAD COMBINATION TABLES -----

COMBINATION TABLE: 1 LRFR2009 STANDARD (Default)

LOAD COMBINATION				LOAD FACTORS				-6A.4.2.1-3-	-IMPACT	FACT-	-ENVELOPE-
#	NAME	CATEGORY	RATING	A-DL	B-DL	DW-DL	LL	FACTOR	TRK	LN	TYPE
1	STRENGTH INVENTORY	STRENGTH-I	STR-INV	1.250	1.250	1.500	1.750	1.000	1.330	1.000	MOM-MAX
2	STRENGTH INVENTORY	STRENGTH-I	STR-INV	1.250	1.250	1.500	1.750	1.000	1.330	1.000	MOM-MIN
3	STRENGTH INVENTORY	STRENGTH-I	STR-INV	1.250	1.250	1.500	1.750	1.000	1.330	1.000	SHR-MAX
4	STRENGTH INVENTORY	STRENGTH-I	STR-INV	1.250	1.250	1.500	1.750	1.000	1.330	1.000	SHR-MIN
5	SERVICE INVENTORY	SERVICE-II	SRV-INV	1.000	1.000	1.000	1.300	1.000	1.330	1.000	MOM-MAX
6	SERVICE INVENTORY	SERVICE-II	SRV-INV	1.000	1.000	1.000	1.300	1.000	1.330	1.000	MOM-MIN
7	SERVICE INVENTORY	SERVICE-II	SRV-INV	1.000	1.000	1.000	1.300	1.000	1.330	1.000	SHR-MAX
8	SERVICE INVENTORY	SERVICE-II	SRV-INV	1.000	1.000	1.000	1.300	1.000	1.330	1.000	SHR-MIN
9	STRENGTH OPERATING	STRENGTH-I	STR-OPR	1.250	1.250	1.500	1.350	1.000	1.330	1.000	MOM-MAX
10	STRENGTH OPERATING	STRENGTH-I	STR-OPR	1.250	1.250	1.500	1.350	1.000	1.330	1.000	MOM-MIN
11	STRENGTH OPERATING	STRENGTH-I	STR-OPR	1.250	1.250	1.500	1.350	1.000	1.330	1.000	SHR-MAX
12	STRENGTH OPERATING	STRENGTH-I	STR-OPR	1.250	1.250	1.500	1.350	1.000	1.330	1.000	SHR-MIN
13	SERVICE OPERATING	SERVICE-II	SRV-OPR	1.000	1.000	1.000	1.000	1.000	1.330	1.000	MOM-MAX
14	SERVICE OPERATING	SERVICE-II	SRV-OPR	1.000	1.000	1.000	1.000	1.000	1.330	1.000	MOM-MIN
15	SERVICE OPERATING	SERVICE-II	SRV-OPR	1.000	1.000	1.000	1.000	1.000	1.330	1.000	SHR-MAX
16	SERVICE OPERATING	SERVICE-II	SRV-OPR	1.000	1.000	1.000	1.000	1.000	1.330	1.000	SHR-MIN

COMBINATION TABLE: 2 LRFR2009 LEGAL & PERMIT (Default)

LOAD COMBINATION				LOAD FACTORS				-6A.4.2.1-3-	-IMPACT	FACT-	-ENVELOPE-
#	NAME	CATEGORY	RATING	A-DL	B-DL	DW-DL	LL	FACTOR	TRK	LN	TYPE
1	STRENGTH-I LEGAL	STRENGTH-I	STR-LGL	1.250	1.250	1.500	1.510	1.000	1.330	1.000	MOM-MAX
2	STRENGTH-I LEGAL	STRENGTH-I	STR-LGL	1.250	1.250	1.500	1.510	1.000	1.330	1.000	MOM-MIN
3	STRENGTH-I LEGAL	STRENGTH-I	STR-LGL	1.250	1.250	1.500	1.510	1.000	1.330	1.000	SHR-MAX
4	STRENGTH-I LEGAL	STRENGTH-I	STR-LGL	1.250	1.250	1.500	1.510	1.000	1.330	1.000	SHR-MIN
5	STRENGTH-II PERMIT	STRENGTH-II	STR-PMT	1.250	1.250	1.500	1.800	1.000	1.330	1.000	MOM-MAX
6	STRENGTH-II PERMIT	STRENGTH-II	STR-PMT	1.250	1.250	1.500	1.800	1.000	1.330	1.000	MOM-MIN
7	STRENGTH-II PERMIT	STRENGTH-II	STR-PMT	1.250	1.250	1.500	1.800	1.000	1.330	1.000	SHR-MAX
8	STRENGTH-II PERMIT	STRENGTH-II	STR-PMT	1.250	1.250	1.500	1.800	1.000	1.330	1.000	SHR-MIN
9	SERVICE-II LEGAL	SERVICE-II	SRV-LGL	1.000	1.000	1.000	1.300	1.000	1.330	1.000	MOM-MAX
10	SERVICE-II LEGAL	SERVICE-II	SRV-LGL	1.000	1.000	1.000	1.300	1.000	1.330	1.000	MOM-MIN
11	SERVICE-II LEGAL	SERVICE-II	SRV-LGL	1.000	1.000	1.000	1.300	1.000	1.330	1.000	SHR-MAX
12	SERVICE-II LEGAL	SERVICE-II	SRV-LGL	1.000	1.000	1.000	1.300	1.000	1.330	1.000	SHR-MIN
13	SERVICE-II PERMIT	SERVICE-II	SRV-PMT	1.000	1.000	1.000	1.000	1.000	1.330	1.000	MOM-MAX
14	SERVICE-II PERMIT	SERVICE-II	SRV-PMT	1.000	1.000	1.000	1.000	1.000	1.330	1.000	MOM-MIN
15	SERVICE-II PERMIT	SERVICE-II	SRV-PMT	1.000	1.000	1.000	1.000	1.000	1.330	1.000	SHR-MAX
16	SERVICE-II PERMIT	SERVICE-II	SRV-PMT	1.000	1.000	1.000	1.000	1.000	1.330	1.000	SHR-MIN

COMBINATION TABLE: 3 LRFR2009 FATIGUE (Default)

LOAD COMBINATION				LOAD FACTORS				-6A.4.2.1-3-	-IMPACT	FACT-	-ENVELOPE-
#	NAME	CATEGORY	RATING	A-DL	B-DL	DW-DL	LL	FACTOR	TRK	LN	TYPE
1	FATIGUE-INFINITE	FATIGUE-I LL	FAT-INF	1.000	1.000	1.000	1.500	1.000	1.150	0.000	MOM-MAX
2	FATIGUE-INFINITE	FATIGUE-I LL	FAT-INF	1.000	1.000	1.000	1.500	1.000	1.150	0.000	MOM-MIN
3	FATIGUE-FINITE	FATIGUE-II L	FAT-FIN	1.000	1.000	1.000	0.750	1.000	1.150	0.000	MOM-MAX
4	FATIGUE-FINITE	FATIGUE-II L	FAT-FIN	1.000	1.000	1.000	0.750	1.000	1.150	0.000	MOM-MIN

----- LOAD TEMPLATES -----

LL TEMPLATE NUMBER: 1
 LL PATTERN: 1 HL-93-ED
 COMBINATION TABLE: 1 LRFR2009 STANDARD (Default)
 LANE POSITIONS: MLW: Yes CLW: No CLO: No OLV: No OLO: No

----- LOAD TEMPLATES -----

LL TEMPLATE NUMBER: 2
 LL PATTERN: 1 HL-93-ED
 COMBINATION TABLE: 2 LRFR2009 LEGAL & PERMIT (Default)
 LANE POSITIONS: MLW: Yes CLW: No CLO: No OLW: No OLO: No

LL TEMPLATE NUMBER: 3
 LL PATTERN: 1 HL-93-ED
 COMBINATION TABLE: 3 LRFR2009 FATIGUE (Default)
 LANE POSITIONS: MLW: No CLW: No CLO: No OLW: Yes OLO: No

----- FACTORED FORCE SUMMARY -----

STRENGTH-I INVENTORY
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR			COMB NO	MIN SHEAR		
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)	V (kips)		COR M (ft-k)		
0.000	3	2	0	1	2	-5	0	-3	1	1	2	4	-47	-3		
0.769	1	2	0	0	2	-47	0	-61	1	0	2	4	-65	-30		
1.000	1	2	0	-1	2	-63	0	-62	1	-1	2	4	-66	-41		
1.000	1	2	0	70	2	-63	0	105	3	172	-7	4	32	0		
1.000	1	4	0	80	2	-61	0	92	3	172	-3	4	32	0		
1.050	1	526	0	150	2	72	0	33	3	151	522	4	23	244		
1.100	1	948	0	131	2	179	0	25	3	132	934	4	11	461		
1.133	1	1182	0	118	2	234	0	22	3	119	1160	4	0	685		
1.150	1	1276	0	74	2	259	0	17	3	115	1250	4	-2	749		
1.200	1	1525	0	39	2	310	0	12	3	101	1479	4	-13	912		
1.250	1	1703	0	25	2	342	0	7	3	87	1643	4	-24	1236		
1.267	1	1750	0	24	2	349	0	4	3	87	1670	4	-25	1297		
1.300	1	1837	0	12	2	356	0	1	3	80	1734	4	-31	1379		
1.350	1	1925	0	-2	2	350	0	-4	3	67	1790	4	-41	1458		
1.372	1	1950	0	-11	2	342	0	-7	3	60	1804	4	-48	1487		
1.400	1	1957	0	-17	2	327	0	-10	3	55	1646	4	-52	1655		
1.450	1	1930	0	1	2	284	0	-15	3	45	1597	4	-65	1676		
1.500	1	1869	0	-4	2	224	0	-20	3	34	1498	4	-77	1640		
1.533	1	1800	0	-12	2	172	0	-25	3	30	1414	4	-83	1593		
1.550	1	1762	0	-11	2	143	0	-27	3	29	1363	4	-85	1566		
1.600	1	1614	0	-25	2	42	0	-33	3	17	1179	4	-97	1436		
1.650	1	1410	0	-39	2	-80	0	-38	3	6	996	4	-110	1250		
1.667	1	1330	0	-45	2	-126	0	-40	3	1	927	4	-116	1173		
1.700	1	1152	0	-55	2	-223	0	-44	3	-5	775	4	-124	1014		
1.745	1	871	0	-74	2	-369	0	-49	3	-17	547	4	-139	735		
1.750	1	838	0	-72	2	-387	0	-51	3	-15	383	4	-138	707		
1.800	1	486	0	-76	2	-590	0	-68	3	-26	140	4	-152	341		
1.801	1	482	0	-72	2	-593	0	-70	3	-22	137	4	-149	337		
1.850	1	134	0	-86	2	-850	0	-81	3	-31	-76	4	-164	-72		
1.900	1	-222	0	-91	2	-1181	0	-120	3	-42	-335	4	-181	-544		
1.900	1	-224	0	-91	2	-1184	0	-120	3	-42	-336	4	-181	-547		
1.950	1	-583	0	-118	2	-1627	0	-136	3	-52	-675	4	-200	-1088		
2.000	1	-905	0	-64	2	-2140	0	-155	3	-62	-965	4	-218	-1704		
2.000	1	-905	0	64	2	-2140	0	156	3	217	-1718	4	61	-998		
2.050	1	-589	0	118	2	-1626	0	136	3	199	-1116	4	52	-678		
2.100	1	-241	0	91	2	-1184	0	118	3	181	-580	4	42	-330		
2.101	1	-237	0	90	2	-1180	0	117	3	181	-575	4	42	-327		
2.150	1	100	0	84	2	-826	0	80	3	165	-112	4	30	-47		
2.200	1	432	0	77	2	-566	0	68	3	150	292	4	19	187		
2.201	1	439	0	82	2	-561	0	66	3	154	299	4	25	192		
2.250	1	781	0	71	2	-368	0	49	3	137	659	4	11	414		
2.250	1	777	0	75	2	-368	0	48	3	140	649	4	15	567		
2.251	1	785	0	75	2	-364	0	48	3	139	657	4	15	573		
2.260	1	845	0	72	2	-335	0	47	3	136	717	4	12	616		
2.300	1	1088	0	59	2	-208	0	43	3	126	952	4	5	802		
2.334	1	1273	0	44	2	-111	0	39	3	115	1131	4	-4	921		

----- FACTORED FORCE SUMMARY -----

STRENGTH-I INVENTORY (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
2.350	1	1345	0	43	2	-68	0	37	3	113	1186	4	-5	1000
2.400	1	1548	0	29	2	51	0	31	3	100	1371	4	-15	1176
2.450	1	1696	0	15	2	151	0	25	3	88	1502	4	-25	1318
2.467	1	1736	0	17	2	180	0	23	3	89	1527	4	-24	1374
2.500	1	1806	0	9	2	229	0	19	3	81	1581	4	-29	1452
2.550	1	1870	0	4	2	287	0	14	3	69	1621	4	-40	1550
2.600	1	1901	0	22	2	326	0	9	3	57	1607	4	-50	1601
2.630	1	1893	0	11	2	342	0	6	3	47	1445	4	-59	1751
2.650	1	1874	0	9	2	349	0	4	3	45	1415	4	-62	1748
2.700	1	1792	0	-7	2	353	0	-1	3	34	1335	4	-74	1698
2.733	1	1705	0	-17	2	346	0	-5	3	30	1248	4	-80	1642
2.750	1	1664	0	-20	2	339	0	-7	3	29	999	4	-82	1607
2.800	1	1495	0	-34	2	306	0	-12	3	18	890	4	-96	1453
2.850	1	1257	0	-69	2	256	0	-17	3	6	736	4	-111	1231
2.867	1	1160	0	-116	2	233	0	-22	3	1	673	4	-117	1138
2.900	1	939	0	-127	2	177	0	-26	3	-8	520	4	-128	925
2.950	1	527	0	-148	2	72	0	-33	3	-22	243	4	-148	523
3.000	1	3	0	-81	2	-54	0	-88	3	-32	0	4	-169	-1
3.000	1	2	0	-69	2	-56	0	-102	3	-32	-1	4	-169	-5
3.000	1	-1	0	2	2	-52	0	60	3	64	-30	1	2	-1
3.231	1	0	0	1	2	-39	0	48	3	63	-14	1	1	0
4.000	1	0	0	0	2	0	0	0	3	46	0	1	0	0

SERVICE-II INVENTORY
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	7	2	0	1	6	-4	0	-2	5	1	2	8	-35	-2
0.769	5	2	0	0	6	-35	0	-46	5	0	2	8	-49	-22
1.000	5	2	0	-1	6	-47	0	-46	5	-1	2	8	-49	-31
1.000	5	2	0	54	6	-47	0	80	7	129	-5	8	26	0
1.000	5	3	0	61	6	-45	0	71	7	129	-2	8	26	0
1.050	5	395	0	113	6	60	0	27	7	113	392	8	19	188
1.100	5	713	0	98	6	146	0	21	7	99	702	8	10	356
1.133	5	888	0	89	6	191	0	18	7	89	872	8	2	526
1.150	5	960	0	56	6	211	0	14	7	87	940	8	0	575
1.200	5	1147	0	30	6	253	0	10	7	76	1113	8	-9	700
1.250	5	1281	0	19	6	280	0	6	7	65	1236	8	-17	944
1.267	5	1317	0	18	6	286	0	4	7	65	1257	8	-18	990
1.300	5	1382	0	9	6	292	0	1	7	60	1305	8	-22	1052
1.350	5	1448	0	-1	6	289	0	-3	7	50	1348	8	-30	1112
1.372	5	1467	0	-8	6	283	0	-5	7	45	1358	8	-35	1134
1.400	5	1471	0	-12	6	271	0	-7	7	41	1252	8	-39	1247
1.450	5	1451	0	1	6	239	0	-12	7	33	1214	8	-48	1262
1.500	5	1404	0	-3	6	192	0	-16	7	24	1138	8	-58	1234
1.533	5	1352	0	-9	6	152	0	-19	7	21	1074	8	-62	1197
1.550	5	1322	0	-9	6	129	0	-21	7	21	1035	8	-64	1176
1.600	5	1209	0	-19	6	50	0	-26	7	11	894	8	-73	1077
1.650	5	1055	0	-30	6	-46	0	-30	7	3	753	8	-83	936
1.667	5	994	0	-35	6	-83	0	-32	7	-1	700	8	-87	877
1.700	5	858	0	-42	6	-159	0	-35	7	-6	583	8	-93	756
1.745	5	646	0	-56	6	-274	0	-39	7	-15	407	8	-105	545
1.750	5	621	0	-55	6	-288	0	-40	7	-14	284	8	-104	524
1.800	5	352	0	-59	6	-446	0	-52	7	-22	95	8	-115	246
1.801	5	349	0	-56	6	-448	0	-54	7	-19	93	8	-112	243
1.850	5	81	0	-67	6	-645	0	-62	7	-26	-75	8	-124	-67

----- FACTORED FORCE SUMMARY -----

SERVICE-II INVENTORY (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
1.900	5	-193	0	-71	6	-898	0	-91	7	-34	-277	8	-137	-424
1.900	5	-195	0	-71	6	-900	0	-91	7	-34	-278	8	-137	-427
1.950	5	-473	0	-91	6	-1236	0	-103	7	-42	-541	8	-151	-836
2.000	5	-724	0	-51	6	-1625	0	-118	7	-49	-769	8	-165	-1302
2.000	5	-724	0	51	6	-1625	0	118	7	164	-1312	8	49	-794
2.050	5	-478	0	91	6	-1236	0	103	7	150	-857	8	42	-543
2.100	5	-208	0	70	6	-900	0	89	7	137	-452	8	34	-274
2.101	5	-205	0	70	6	-897	0	89	7	137	-447	8	34	-271
2.150	5	56	0	65	6	-628	0	62	7	125	-97	8	25	-53
2.200	5	312	0	60	6	-428	0	52	7	113	209	8	16	130
2.201	5	317	0	63	6	-424	0	50	7	116	214	8	21	133
2.250	5	578	0	54	6	-274	0	39	7	103	487	8	10	307
2.250	5	574	0	57	6	-274	0	38	7	105	480	8	13	421
2.251	5	580	0	57	6	-271	0	38	7	105	486	8	13	425
2.260	5	626	0	55	6	-248	0	37	7	103	531	8	11	458
2.300	5	810	0	45	6	-148	0	34	7	95	710	8	6	602
2.334	5	950	0	34	6	-72	0	31	7	86	845	8	-1	694
2.350	5	1005	0	33	6	-38	0	29	7	85	887	8	-2	755
2.400	5	1159	0	23	6	56	0	25	7	75	1028	8	-10	891
2.450	5	1272	0	12	6	134	0	20	7	66	1128	8	-18	1001
2.467	5	1303	0	13	6	156	0	18	7	66	1148	8	-17	1043
2.500	5	1356	0	7	6	195	0	15	7	61	1189	8	-21	1103
2.550	5	1405	0	4	6	240	0	11	7	51	1220	8	-29	1178
2.600	5	1429	0	17	6	270	0	7	7	42	1210	8	-37	1217
2.630	5	1423	0	8	6	282	0	4	7	35	1101	8	-44	1318
2.650	5	1409	0	6	6	287	0	3	7	34	1079	8	-46	1316
2.700	5	1347	0	-5	6	289	0	-1	7	25	1019	8	-55	1278
2.733	5	1282	0	-13	6	283	0	-4	7	22	953	8	-60	1236
2.750	5	1252	0	-15	6	277	0	-6	7	21	767	8	-61	1209
2.800	5	1124	0	-26	6	249	0	-10	7	12	683	8	-72	1093
2.850	5	945	0	-52	6	208	0	-14	7	3	565	8	-83	926
2.867	5	872	0	-87	6	189	0	-18	7	-1	516	8	-88	855
2.900	5	706	0	-95	6	144	0	-21	7	-8	400	8	-96	695
2.950	5	396	0	-111	6	60	0	-26	7	-18	188	8	-111	393
3.000	5	2	0	-62	6	-40	0	-68	7	-26	0	8	-127	-1
3.000	5	1	0	-54	6	-42	0	-77	7	-26	0	8	-127	-4
3.000	5	-1	0	1	6	-39	0	45	7	48	-22	5	1	-1
3.231	5	0	0	1	6	-29	0	36	7	47	-11	5	1	0
4.000	5	0	0	0	6	0	0	0	7	34	0	5	0	0

STRENGTH-I OPERATING
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	11	2	0	1	10	-4	0	-2	9	1	2	12	-36	-3
0.769	9	2	0	0	10	-37	0	-48	9	0	2	12	-51	-23
1.000	9	2	0	-1	10	-49	0	-48	9	-1	2	12	-51	-32
1.000	9	2	0	63	10	-49	0	92	11	144	-6	12	34	-1
1.000	9	3	0	73	10	-47	0	80	11	144	-2	12	34	0
1.050	9	442	0	126	10	84	0	33	11	126	439	12	25	217
1.100	9	799	0	109	10	191	0	26	11	110	788	12	15	409
1.133	9	998	0	98	10	248	0	23	11	99	981	12	6	596
1.150	9	1079	0	64	10	273	0	18	11	96	1058	12	4	652
1.200	9	1291	0	36	10	329	0	13	11	83	1256	12	-6	794
1.250	9	1445	0	23	10	367	0	8	11	71	1398	12	-16	1056

----- FACTORED FORCE SUMMARY -----

STRENGTH-I OPERATING (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
1.267	9	1486	0	22	10	375	0	6	11	71	1424	12	-16	1106
1.300	9	1559	0	11	10	385	0	2	11	64	1480	12	-22	1175
1.350	9	1632	0	0	10	385	0	-3	11	53	1528	12	-31	1240
1.372	9	1653	0	-8	10	379	0	-5	11	46	1539	12	-37	1262
1.400	9	1657	0	-13	10	367	0	-8	11	42	1385	12	-41	1424
1.450	9	1632	0	-1	10	330	0	-13	11	33	1342	12	-52	1435
1.500	9	1575	0	-7	10	275	0	-19	11	23	1258	12	-63	1398
1.533	9	1512	0	-14	10	227	0	-23	11	20	1185	12	-69	1352
1.550	9	1476	0	-14	10	200	0	-25	11	18	1141	12	-70	1325
1.600	9	1342	0	-26	10	106	0	-31	11	8	983	12	-82	1204
1.650	9	1159	0	-38	10	-9	0	-36	11	-2	820	12	-93	1035
1.667	9	1087	0	-43	10	-53	0	-38	11	-6	760	12	-98	966
1.700	9	928	0	-52	10	-144	0	-42	11	-12	625	12	-105	821
1.745	9	679	0	-68	10	-283	0	-47	11	-22	424	12	-118	574
1.750	9	650	0	-67	10	-300	0	-48	11	-21	294	12	-117	549
1.800	9	340	0	-69	10	-493	0	-65	11	-30	74	12	-130	225
1.801	9	337	0	-66	10	-496	0	-67	11	-27	71	12	-128	221
1.850	9	32	0	-78	10	-741	0	-77	11	-35	-131	12	-141	-140
1.900	9	-284	0	-83	10	-1048	0	-108	11	-45	-371	12	-155	-557
1.900	9	-286	0	-83	10	-1051	0	-108	11	-45	-373	12	-156	-559
1.950	9	-609	0	-105	10	-1449	0	-122	11	-54	-679	12	-171	-1034
2.000	9	-906	0	-64	10	-1907	0	-138	11	-62	-952	12	-187	-1571
2.000	9	-906	0	64	10	-1907	0	138	11	186	-1582	12	62	-978
2.050	9	-614	0	104	10	-1449	0	122	11	170	-1055	12	54	-682
2.100	9	-300	0	82	10	-1052	0	106	11	155	-586	12	45	-369
2.101	9	-297	0	82	10	-1047	0	106	11	155	-581	12	45	-366
2.150	9	4	0	76	10	-724	0	76	11	141	-173	12	34	-110
2.200	9	297	0	70	10	-477	0	65	11	128	185	12	24	108
2.201	9	303	0	73	10	-472	0	63	11	131	192	12	29	112
2.250	9	604	0	66	10	-288	0	47	11	116	509	12	17	316
2.250	9	600	0	69	10	-288	0	46	11	119	502	12	20	434
2.251	9	607	0	69	10	-284	0	46	11	118	509	12	20	439
2.260	9	660	0	66	10	-256	0	45	11	116	561	12	18	478
2.300	9	876	0	55	10	-136	0	40	11	107	771	12	12	643
2.334	9	1040	0	43	10	-44	0	37	11	97	930	12	4	752
2.350	9	1105	0	41	10	-3	0	35	11	95	982	12	3	821
2.400	9	1287	0	29	10	109	0	29	11	84	1151	12	-6	977
2.450	9	1422	0	17	10	203	0	24	11	73	1272	12	-15	1103
2.467	9	1458	0	17	10	229	0	21	11	73	1297	12	-15	1150
2.500	9	1522	0	10	10	275	0	18	11	66	1348	12	-20	1219
2.550	9	1581	0	5	10	328	0	13	11	55	1389	12	-29	1303
2.600	9	1610	0	18	10	363	0	8	11	44	1384	12	-38	1346
2.630	9	1605	0	9	10	375	0	5	11	36	1226	12	-46	1495
2.650	9	1589	0	6	10	380	0	2	11	34	1203	12	-48	1493
2.700	9	1521	0	-8	10	380	0	-3	11	25	1137	12	-60	1449
2.733	9	1448	0	-16	10	370	0	-6	11	21	1066	12	-65	1399
2.750	9	1412	0	-19	10	361	0	-8	11	19	870	12	-67	1368
2.800	9	1266	0	-31	10	324	0	-13	11	10	774	12	-79	1234
2.850	9	1062	0	-60	10	269	0	-18	11	0	639	12	-92	1042
2.867	9	979	0	-96	10	245	0	-23	11	-5	584	12	-97	962
2.900	9	791	0	-106	10	188	0	-26	11	-13	453	12	-107	780
2.950	9	442	0	-123	10	83	0	-33	11	-24	215	12	-124	439
3.000	9	2	0	-74	10	-41	0	-77	11	-33	0	12	-141	-1
3.000	9	1	0	-62	10	-43	0	-90	11	-33	-1	12	-141	-4
3.000	9	-1	0	2	10	-40	0	47	11	50	-23	9	2	-1
3.231	9	0	0	1	10	-30	0	37	11	49	-11	9	1	0
4.000	9	0	0	0	10	0	0	0	11	35	0	9	0	0

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----- FACTORED FORCE SUMMARY -----

SERVICE-II OPERATING
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR			COMB	MIN SHEAR		
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)	V (kips)		COR M (ft-k)		
0.000	15	1	0	1	14	-3	0	-1	13	1	1	16	-27	-2		
0.769	13	1	0	0	14	-27	0	-35	13	0	1	16	-38	-17		
1.000	13	1	0	-1	14	-36	0	-36	13	-1	1	16	-38	-24		
1.000	13	1	0	49	14	-36	0	70	15	108	-4	16	27	0		
1.000	13	2	0	56	14	-35	0	61	15	108	-2	16	27	0		
1.050	13	333	0	94	14	69	0	27	15	95	330	16	21	168		
1.100	13	601	0	82	14	155	0	21	15	83	593	16	13	317		
1.133	13	750	0	74	14	201	0	18	15	74	738	16	6	459		
1.150	13	812	0	48	14	222	0	15	15	72	797	16	4	502		
1.200	13	972	0	27	14	267	0	11	15	62	946	16	-3	611		
1.250	13	1087	0	17	14	298	0	7	15	53	1053	16	-11	809		
1.267	13	1118	0	17	14	305	0	5	15	53	1073	16	-12	847		
1.300	13	1173	0	9	14	314	0	2	15	48	1115	16	-16	899		
1.350	13	1228	0	0	14	315	0	-2	15	39	1151	16	-23	948		
1.372	13	1243	0	-6	14	310	0	-4	15	34	1159	16	-27	965		
1.400	13	1246	0	-10	14	301	0	-6	15	31	1055	16	-30	1074		
1.450	13	1227	0	-1	14	273	0	-10	15	24	1023	16	-39	1081		
1.500	13	1183	0	-5	14	230	0	-15	15	16	958	16	-47	1052		
1.533	13	1135	0	-11	14	193	0	-18	15	13	902	16	-51	1016		
1.550	13	1108	0	-11	14	172	0	-19	15	12	869	16	-53	996		
1.600	13	1005	0	-20	14	97	0	-24	15	4	747	16	-61	904		
1.650	13	866	0	-29	14	7	0	-28	15	-3	621	16	-70	774		
1.667	13	811	0	-33	14	-28	0	-30	15	-6	574	16	-74	722		
1.700	13	691	0	-40	14	-100	0	-33	15	-11	470	16	-79	612		
1.745	13	502	0	-52	14	-209	0	-37	15	-19	315	16	-89	424		
1.750	13	480	0	-51	14	-223	0	-38	15	-18	217	16	-88	405		
1.800	13	243	0	-54	14	-373	0	-50	15	-25	46	16	-98	159		
1.801	13	241	0	-51	14	-375	0	-51	15	-23	44	16	-96	156		
1.850	13	5	0	-61	14	-563	0	-59	15	-29	-115	16	-106	-118		
1.900	13	-240	0	-64	14	-798	0	-82	15	-36	-304	16	-117	-434		
1.900	13	-241	0	-64	14	-800	0	-83	15	-36	-305	16	-117	-436		
1.950	13	-492	0	-81	14	-1103	0	-93	15	-43	-544	16	-129	-795		
2.000	13	-725	0	-51	14	-1451	0	-105	15	-50	-759	16	-141	-1202		
2.000	13	-725	0	51	14	-1451	0	105	15	140	-1210	16	49	-779		
2.050	13	-496	0	81	14	-1103	0	93	15	128	-812	16	43	-546		
2.100	13	-252	0	64	14	-801	0	81	15	117	-456	16	36	-303		
2.101	13	-249	0	64	14	-798	0	81	15	117	-452	16	36	-301		
2.150	13	-16	0	59	14	-551	0	58	15	107	-143	16	28	-100		
2.200	13	211	0	54	14	-361	0	50	15	97	129	16	21	71		
2.201	13	215	0	57	14	-357	0	48	15	99	134	16	24	74		
2.250	13	445	0	50	14	-214	0	37	15	88	375	16	15	233		
2.250	13	442	0	53	14	-214	0	36	15	90	369	16	17	320		
2.251	13	447	0	52	14	-211	0	36	15	89	375	16	17	324		
2.260	13	487	0	50	14	-189	0	36	15	87	414	16	16	354		
2.300	13	651	0	42	14	-94	0	32	15	80	574	16	11	483		
2.334	13	776	0	33	14	-22	0	29	15	73	695	16	5	568		
2.350	13	825	0	32	14	10	0	27	15	72	735	16	4	621		
2.400	13	964	0	22	14	99	0	23	15	63	863	16	-3	742		
2.450	13	1067	0	13	14	172	0	19	15	55	956	16	-10	839		
2.467	13	1095	0	13	14	193	0	17	15	55	975	16	-10	876		
2.500	13	1143	0	8	14	229	0	14	15	50	1014	16	-14	928		
2.550	13	1188	0	4	14	271	0	10	15	41	1046	16	-21	993		
2.600	13	1211	0	14	14	297	0	6	15	33	1043	16	-28	1026		
2.630	13	1207	0	6	14	307	0	3	15	27	937	16	-34	1126		
2.650	13	1196	0	4	14	310	0	2	15	25	920	16	-36	1124		
2.700	13	1144	0	-6	14	309	0	-2	15	18	870	16	-44	1091		
2.733	13	1089	0	-13	14	301	0	-5	15	15	816	16	-48	1054		
2.750	13	1063	0	-14	14	293	0	-7	15	14	670	16	-50	1030		
2.800	13	952	0	-24	14	263	0	-11	15	6	596	16	-59	929		

----- FACTORED FORCE SUMMARY -----

SERVICE-II OPERATING (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 1 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
2.850	13	798	0	-45	14	218	0	-15	15	-2	492	16	-69	784
2.867	13	736	0	-72	14	199	0	-18	15	-5	450	16	-73	724
2.900	13	594	0	-80	14	153	0	-21	15	-11	349	16	-80	587
2.950	13	332	0	-93	14	69	0	-26	15	-20	167	16	-93	330
3.000	13	2	0	-56	14	-31	0	-59	15	-27	0	16	-106	-1
3.000	13	1	0	-48	14	-32	0	-68	15	-27	-1	16	-106	-3
3.000	13	-1	0	1	14	-30	0	35	15	37	-17	13	1	-1
3.231	13	0	0	1	14	-22	0	28	15	37	-8	13	1	0
4.000	13	0	0	0	14	0	0	0	15	26	0	13	0	0

STRENGTH-I LEGAL
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	3	2	0	1	2	-5	0	-2	1	1	2	4	-40	-3
0.769	1	2	0	0	2	-41	0	-53	1	0	2	4	-57	-26
1.000	1	2	0	-1	2	-54	0	-54	1	-1	2	4	-57	-36
1.000	1	2	0	66	2	-55	0	98	3	155	-6	4	33	-1
1.000	1	4	0	76	2	-52	0	85	3	155	-2	4	33	0
1.050	1	476	0	136	2	79	0	33	3	136	472	4	24	228
1.100	1	859	0	118	2	186	0	26	3	119	847	4	13	430
1.133	1	1071	0	106	2	242	0	22	3	107	1052	4	4	631
1.150	1	1158	0	68	2	268	0	18	3	104	1135	4	2	691
1.200	1	1385	0	37	2	321	0	13	3	90	1345	4	-9	841
1.250	1	1548	0	24	2	357	0	7	3	77	1496	4	-19	1128
1.267	1	1591	0	23	2	365	0	5	3	77	1523	4	-20	1183
1.300	1	1670	0	12	2	373	0	2	3	70	1581	4	-25	1256
1.350	1	1749	0	-1	2	371	0	-3	3	59	1633	4	-35	1327
1.372	1	1771	0	-9	2	364	0	-6	3	52	1645	4	-41	1352
1.400	1	1777	0	-15	2	351	0	-9	3	48	1489	4	-45	1517
1.450	1	1751	0	0	2	312	0	-14	3	37	1444	4	-57	1531
1.500	1	1692	0	-6	2	254	0	-19	3	27	1354	4	-69	1494
1.533	1	1627	0	-13	2	205	0	-24	3	24	1276	4	-74	1448
1.550	1	1590	0	-13	2	177	0	-25	3	23	1230	4	-76	1421
1.600	1	1450	0	-26	2	80	0	-31	3	11	1061	4	-88	1297
1.650	1	1259	0	-39	2	-37	0	-37	3	1	890	4	-100	1121
1.667	1	1184	0	-44	2	-82	0	-39	3	-3	827	4	-105	1048
1.700	1	1017	0	-53	2	-176	0	-43	3	-9	685	4	-112	898
1.745	1	756	0	-70	2	-317	0	-48	3	-20	473	4	-126	639
1.750	1	725	0	-69	2	-335	0	-49	3	-19	329	4	-125	612
1.800	1	398	0	-72	2	-532	0	-66	3	-28	100	4	-139	271
1.801	1	395	0	-68	2	-535	0	-68	3	-25	97	4	-136	268
1.850	1	72	0	-81	2	-784	0	-78	3	-34	-109	4	-150	-113
1.900	1	-259	0	-86	2	-1102	0	-113	3	-43	-357	4	-166	-552
1.900	1	-261	0	-86	2	-1104	0	-113	3	-44	-358	4	-166	-555
1.950	1	-599	0	-110	2	-1520	0	-128	3	-53	-678	4	-183	-1055
2.000	1	-906	0	-64	2	-2000	0	-145	3	-62	-957	4	-199	-1624
2.000	1	-906	0	64	2	-2000	0	145	3	199	-1636	4	61	-986
2.050	1	-604	0	110	2	-1520	0	128	3	182	-1080	4	53	-680
2.100	1	-277	0	85	2	-1105	0	111	3	166	-584	4	44	-353
2.101	1	-273	0	85	2	-1100	0	111	3	166	-578	4	44	-350
2.150	1	42	0	79	2	-765	0	78	3	151	-149	4	33	-85
2.200	1	351	0	73	2	-512	0	66	3	137	228	4	22	139
2.201	1	358	0	76	2	-507	0	64	3	140	234	4	27	144
2.250	1	675	0	68	2	-320	0	48	3	124	569	4	15	355

RUN TIME: 05/12/2014 10:14:26.220

OUTPUT

Filename: M:\jobs\46583...\300...\330...\TechProd\Load Ratings\Analysis\2771-Six Mile Falls\BDGS\SteelDsn-GRID\S3.OUT

----- FACTORED FORCE SUMMARY -----

STRENGTH-I LEGAL (Cont'd)

MULTI LANE WITH IMPACT

LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
2.250	1	670	0	71	2	-320	0	47	3	127	561	4	18	487
2.251	1	678	0	71	2	-316	0	47	3	127	568	4	18	493
2.260	1	734	0	68	2	-287	0	46	3	124	624	4	16	533
2.300	1	960	0	56	2	-165	0	41	3	115	843	4	9	707
2.334	1	1133	0	43	2	-71	0	38	3	104	1011	4	1	819
2.350	1	1201	0	42	2	-29	0	36	3	102	1064	4	0	892
2.400	1	1391	0	29	2	86	0	30	3	91	1239	4	-10	1056
2.450	1	1531	0	16	2	182	0	24	3	79	1364	4	-19	1189
2.467	1	1569	0	17	2	209	0	22	3	79	1389	4	-18	1240
2.500	1	1635	0	10	2	257	0	18	3	72	1441	4	-24	1312
2.550	1	1696	0	5	2	312	0	13	3	61	1482	4	-33	1401
2.600	1	1726	0	20	2	348	0	8	3	49	1473	4	-43	1448
2.630	1	1720	0	10	2	362	0	5	3	41	1314	4	-51	1598
2.650	1	1703	0	7	2	368	0	3	3	39	1287	4	-54	1595
2.700	1	1629	0	-7	2	369	0	-2	3	28	1216	4	-65	1548
2.733	1	1551	0	-17	2	360	0	-6	3	24	1139	4	-71	1496
2.750	1	1513	0	-19	2	352	0	-8	3	23	921	4	-73	1463
2.800	1	1358	0	-32	2	317	0	-13	3	13	820	4	-86	1322
2.850	1	1140	0	-64	2	264	0	-18	3	2	678	4	-99	1118
2.867	1	1051	0	-104	2	240	0	-22	3	-3	620	4	-105	1032
2.900	1	850	0	-114	2	184	0	-26	3	-11	480	4	-115	838
2.950	1	476	0	-133	2	78	0	-33	3	-23	227	4	-133	473
3.000	1	3	0	-77	2	-46	0	-81	3	-33	0	4	-152	-1
3.000	1	1	0	-65	2	-48	0	-95	3	-33	-1	4	-152	-5
3.000	1	-1	0	2	2	-45	0	52	3	56	-26	1	2	-1
3.231	1	0	0	1	2	-34	0	42	3	55	-12	1	1	0
4.000	1	0	0	0	2	0	0	0	3	39	0	1	0	0

STRENGTH-II PERMIT

MULTI LANE WITH IMPACT

LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	7	2	0	1	6	-6	0	-3	5	1	2	8	-48	-3
0.769	5	2	0	0	6	-49	0	-63	5	0	2	8	-67	-30
1.000	5	2	0	-1	6	-65	0	-64	5	-1	2	8	-68	-43
1.000	5	3	0	71	6	-65	0	107	7	176	-7	8	32	0
1.000	5	4	0	81	6	-62	0	94	7	176	-3	8	32	0
1.050	5	537	0	153	6	70	0	33	7	154	532	8	23	247
1.100	5	967	0	134	6	177	0	25	7	135	952	8	11	468
1.133	5	1205	0	120	6	232	0	22	7	122	1182	8	4	629
1.150	5	1301	0	76	6	257	0	17	7	118	1274	8	2	688
1.200	5	1554	0	40	6	307	0	12	7	103	1507	8	-9	838
1.250	5	1735	0	25	6	339	0	6	7	89	1673	8	-25	1258
1.267	5	1783	0	24	6	346	0	4	7	89	1701	8	-26	1321
1.300	5	1872	0	12	6	352	0	1	7	82	1766	8	-32	1405
1.350	5	1962	0	-2	6	346	0	-5	7	69	1823	8	-42	1486
1.372	5	1988	0	-11	6	337	0	-7	7	62	1837	8	-49	1515
1.400	5	1994	0	-17	6	322	0	-10	7	57	1679	8	-54	1684
1.450	5	1968	0	1	6	279	0	-15	7	46	1629	8	-66	1706
1.500	5	1906	0	-4	6	217	0	-21	7	35	1528	8	-79	1670
1.533	5	1836	0	-11	6	165	0	-25	7	32	1442	8	-85	1623
1.550	5	1798	0	-11	6	136	0	-27	7	30	1390	8	-86	1596
1.600	5	1648	0	-25	6	34	0	-33	7	18	1204	8	-99	1465
1.650	5	1442	0	-39	6	-89	0	-38	7	7	1017	8	-112	1277
1.667	5	1360	0	-45	6	-135	0	-41	7	2	948	8	-118	1199
1.700	5	1180	0	-56	6	-233	0	-45	7	-4	794	8	-126	1038

----- FACTORED FORCE SUMMARY -----

STRENGTH-II PERMIT (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
1.745	5	895	0	-75	6	-380	0	-49	7	-17	563	8	-141	755
1.750	5	862	0	-73	6	-398	0	-51	7	-19	327	8	-140	727
1.800	5	504	0	-77	6	-602	0	-68	7	-29	98	8	-155	355
1.801	5	500	0	-73	6	-605	0	-71	7	-25	96	8	-152	352
1.850	5	147	0	-87	6	-863	0	-81	7	-34	-110	8	-167	-63
1.900	5	-214	0	-92	6	-1198	0	-122	7	-44	-358	8	-185	-542
1.900	5	-216	0	-92	6	-1201	0	-122	7	-44	-359	8	-185	-546
1.950	5	-599	0	-110	6	-1649	0	-138	7	-52	-675	8	-203	-1095
2.000	5	-905	0	-64	6	-2169	0	-158	7	-62	-957	8	-222	-1720
2.000	5	-905	0	64	6	-2169	0	158	7	221	-1735	8	61	-1001
2.050	5	-605	0	109	6	-1648	0	138	7	202	-1123	8	52	-677
2.100	5	-234	0	92	6	-1201	0	119	7	185	-580	8	44	-354
2.101	5	-230	0	91	6	-1196	0	119	7	184	-574	8	44	-351
2.150	5	112	0	85	6	-839	0	81	7	168	-105	8	33	-86
2.200	5	449	0	78	6	-577	0	68	7	153	305	8	22	137
2.201	5	456	0	83	6	-572	0	66	7	156	312	8	27	142
2.250	5	803	0	72	6	-378	0	50	7	139	678	8	15	353
2.250	5	799	0	76	6	-378	0	49	7	142	668	8	14	584
2.251	5	807	0	75	6	-374	0	49	7	142	676	8	14	590
2.260	5	868	0	72	6	-345	0	48	7	139	736	8	12	634
2.300	5	1114	0	59	6	-217	0	43	7	129	975	8	4	822
2.334	5	1302	0	45	6	-119	0	40	7	117	1156	8	-5	942
2.350	5	1375	0	43	6	-76	0	37	7	115	1212	8	-6	1022
2.400	5	1580	0	29	6	44	0	32	7	102	1399	8	-16	1201
2.450	5	1730	0	15	6	144	0	26	7	90	1531	8	-26	1345
2.467	5	1771	0	16	6	173	0	23	7	91	1556	8	-25	1402
2.500	5	1841	0	9	6	223	0	20	7	83	1610	8	-31	1481
2.550	5	1906	0	4	6	282	0	14	7	70	1650	8	-41	1581
2.600	5	1937	0	23	6	322	0	9	7	58	1635	8	-52	1633
2.630	5	1929	0	12	6	338	0	6	7	49	1473	8	-61	1783
2.650	5	1909	0	9	6	345	0	4	7	47	1442	8	-63	1780
2.700	5	1826	0	-7	6	350	0	-1	7	35	1360	8	-76	1729
2.733	5	1737	0	-17	6	343	0	-5	7	31	1271	8	-82	1673
2.750	5	1696	0	-20	6	336	0	-7	7	23	918	8	-84	1637
2.800	5	1524	0	-34	6	304	0	-12	7	13	817	8	-98	1481
2.850	5	1281	0	-71	6	255	0	-17	7	2	676	8	-113	1255
2.867	5	1182	0	-118	6	231	0	-22	7	-3	617	8	-119	1160
2.900	5	958	0	-130	6	175	0	-26	7	-11	478	8	-130	944
2.950	5	538	0	-151	6	70	0	-33	7	-21	247	8	-151	533
3.000	5	3	0	-82	6	-55	0	-90	7	-32	0	8	-172	-1
3.000	5	2	0	-70	6	-58	0	-104	7	-32	-1	8	-173	-5
3.000	5	-1	0	2	6	-45	0	52	7	66	-31	5	2	-1
3.231	5	0	0	1	6	-33	0	41	7	65	-15	5	1	0
4.000	5	0	0	0	6	0	0	0	7	47	0	5	0	0

SERVICE-II LEGAL
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB NO	MAX MOMENT			COMB NO	MIN MOMENT			COMB NO	MAX SHEAR		COMB NO	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
0.000	11	2	0	1	10	-4	0	-2	9	1	2	12	-35	-2
0.769	9	2	0	0	10	-35	0	-46	9	0	2	12	-49	-22
1.000	9	2	0	-1	10	-47	0	-46	9	-1	2	12	-49	-31
1.000	9	2	0	54	10	-47	0	80	11	129	-5	12	26	0
1.000	9	3	0	61	10	-45	0	71	11	129	-2	12	26	0
1.050	9	395	0	113	10	60	0	27	11	113	392	12	19	188

----- FACTORED FORCE SUMMARY -----

SERVICE-II LEGAL (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COMB	MIN MOMENT			COMB	MAX SHEAR		COMB	MIN SHEAR	
		M (ft-k)	COR ML (ft-k)	COR V (kips)		M (ft-k)	COR ML (ft-k)	COR V (kips)		V (kips)	COR M (ft-k)		V (kips)	COR M (ft-k)
1.100	9	713	0	98	10	146	0	21	11	99	702	12	10	356
1.133	9	888	0	89	10	191	0	18	11	89	872	12	2	526
1.150	9	960	0	56	10	211	0	14	11	87	940	12	0	575
1.200	9	1147	0	30	10	253	0	10	11	76	1113	12	-9	700
1.250	9	1281	0	19	10	280	0	6	11	65	1236	12	-17	944
1.267	9	1317	0	18	10	286	0	4	11	65	1257	12	-18	990
1.300	9	1382	0	9	10	292	0	1	11	60	1305	12	-22	1052
1.350	9	1448	0	-1	10	289	0	-3	11	50	1348	12	-30	1112
1.372	9	1467	0	-8	10	283	0	-5	11	45	1358	12	-35	1134
1.400	9	1471	0	-12	10	271	0	-7	11	41	1252	12	-39	1247
1.450	9	1451	0	1	10	239	0	-12	11	33	1214	12	-48	1262
1.500	9	1404	0	-3	10	192	0	-16	11	24	1138	12	-58	1234
1.533	9	1352	0	-9	10	152	0	-19	11	21	1074	12	-62	1197
1.550	9	1322	0	-9	10	129	0	-21	11	21	1035	12	-64	1176
1.600	9	1209	0	-19	10	50	0	-26	11	11	894	12	-73	1077
1.650	9	1055	0	-30	10	-46	0	-30	11	3	753	12	-83	936
1.667	9	994	0	-35	10	-83	0	-32	11	-1	700	12	-87	877
1.700	9	858	0	-42	10	-159	0	-35	11	-6	583	12	-93	756
1.745	9	646	0	-56	10	-274	0	-39	11	-15	407	12	-105	545
1.750	9	621	0	-55	10	-288	0	-40	11	-14	284	12	-104	524
1.800	9	352	0	-59	10	-446	0	-52	11	-22	95	12	-115	246
1.801	9	349	0	-56	10	-448	0	-54	11	-19	93	12	-112	243
1.850	9	81	0	-67	10	-645	0	-62	11	-26	-75	12	-124	-67
1.900	9	-193	0	-71	10	-898	0	-91	11	-34	-277	12	-137	-424
1.900	9	-195	0	-71	10	-900	0	-91	11	-34	-278	12	-137	-427
1.950	9	-473	0	-91	10	-1236	0	-103	11	-42	-541	12	-151	-836
2.000	9	-724	0	-51	10	-1625	0	-118	11	-49	-769	12	-165	-1302
2.000	9	-724	0	51	10	-1625	0	118	11	164	-1312	12	49	-794
2.050	9	-478	0	91	10	-1236	0	103	11	150	-857	12	42	-543
2.100	9	-208	0	70	10	-900	0	89	11	137	-452	12	34	-274
2.101	9	-205	0	70	10	-897	0	89	11	137	-447	12	34	-271
2.150	9	56	0	65	10	-628	0	62	11	125	-97	12	25	-53
2.200	9	312	0	60	10	-428	0	52	11	113	209	12	16	130
2.201	9	317	0	63	10	-424	0	50	11	116	214	12	21	133
2.250	9	578	0	54	10	-274	0	39	11	103	487	12	10	307
2.250	9	574	0	57	10	-274	0	38	11	105	480	12	13	421
2.251	9	580	0	57	10	-271	0	38	11	105	486	12	13	425
2.260	9	626	0	55	10	-248	0	37	11	103	531	12	11	458
2.300	9	810	0	45	10	-148	0	34	11	95	710	12	6	602
2.334	9	950	0	34	10	-72	0	31	11	86	845	12	-1	694
2.350	9	1005	0	33	10	-38	0	29	11	85	887	12	-2	755
2.400	9	1159	0	23	10	56	0	25	11	75	1028	12	-10	891
2.450	9	1272	0	12	10	134	0	20	11	66	1128	12	-18	1001
2.467	9	1303	0	13	10	156	0	18	11	66	1148	12	-17	1043
2.500	9	1356	0	7	10	195	0	15	11	61	1189	12	-21	1103
2.550	9	1405	0	4	10	240	0	11	11	51	1220	12	-29	1178
2.600	9	1429	0	17	10	270	0	7	11	42	1210	12	-37	1217
2.630	9	1423	0	8	10	282	0	4	11	35	1101	12	-44	1318
2.650	9	1409	0	6	10	287	0	3	11	34	1079	12	-46	1316
2.700	9	1347	0	-5	10	289	0	-1	11	25	1019	12	-55	1278
2.733	9	1282	0	-13	10	283	0	-4	11	22	953	12	-60	1236
2.750	9	1252	0	-15	10	277	0	-6	11	21	767	12	-61	1209
2.800	9	1124	0	-26	10	249	0	-10	11	12	683	12	-72	1093
2.850	9	945	0	-52	10	208	0	-14	11	3	565	12	-83	926
2.867	9	872	0	-87	10	189	0	-18	11	-1	516	12	-88	855
2.900	9	706	0	-95	10	144	0	-21	11	-8	400	12	-96	695
2.950	9	396	0	-111	10	60	0	-26	11	-18	188	12	-111	393
3.000	9	2	0	-62	10	-40	0	-68	11	-26	0	12	-127	-1
3.000	9	1	0	-54	10	-42	0	-77	11	-26	0	12	-127	-4

----- FACTORED FORCE SUMMARY -----

SERVICE-II LEGAL (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COR V	COMB	MIN MOMENT			COR V	COMB	MAX SHEAR		COR M	COMB	MIN SHEAR		COR M
		M (ft-k)	COR ML (ft-k)				M (ft-k)	COR ML (ft-k)				V (kips)				V (kips)		
3.000	9	-1	0		1	10	-39	0		45	11	48		-22	9	1		-1
3.231	9	0	0		1	10	-29	0		36	11	47		-11	9	1		0
4.000	9	0	0		0	10	0	0		0	11	34		0	9	0		0

SERVICE-II PERMIT
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC FRAC	COMB	MAX MOMENT			COR V	COMB	MIN MOMENT			COR V	COMB	MAX SHEAR		COR M	COMB	MIN SHEAR		COR M
		M (ft-k)	COR ML (ft-k)				M (ft-k)	COR ML (ft-k)				V (kips)				V (kips)		
0.000	15	1	0		1	14	-3	0		-1	13	1		1	16	-27		-2
0.769	13	1	0		0	14	-27	0		-35	13	0		1	16	-38		-17
1.000	13	1	0		-1	14	-36	0		-36	13	-1		1	16	-38		-24
1.000	13	1	0		49	14	-36	0		70	15	108		-4	16	27		0
1.000	13	2	0		56	14	-35	0		61	15	108		-2	16	27		0
1.050	13	333	0		94	14	69	0		27	15	95		330	16	21		168
1.100	13	601	0		82	14	155	0		21	15	83		593	16	13		317
1.133	13	750	0		74	14	201	0		18	15	74		738	16	6		459
1.150	13	812	0		48	14	222	0		15	15	72		797	16	4		502
1.200	13	972	0		27	14	267	0		11	15	62		946	16	-3		611
1.250	13	1087	0		17	14	298	0		7	15	53		1053	16	-11		809
1.267	13	1118	0		17	14	305	0		5	15	53		1073	16	-12		847
1.300	13	1173	0		9	14	314	0		2	15	48		1115	16	-16		899
1.350	13	1228	0		0	14	315	0		-2	15	39		1151	16	-23		948
1.372	13	1243	0		-6	14	310	0		-4	15	34		1159	16	-27		965
1.400	13	1246	0		-10	14	301	0		-6	15	31		1055	16	-30		1074
1.450	13	1227	0		-1	14	273	0		-10	15	24		1023	16	-39		1081
1.500	13	1183	0		-5	14	230	0		-15	15	16		958	16	-47		1052
1.533	13	1135	0		-11	14	193	0		-18	15	13		902	16	-51		1016
1.550	13	1108	0		-11	14	172	0		-19	15	12		869	16	-53		996
1.600	13	1005	0		-20	14	97	0		-24	15	4		747	16	-61		904
1.650	13	866	0		-29	14	7	0		-28	15	-3		621	16	-70		774
1.667	13	811	0		-33	14	-28	0		-30	15	-6		574	16	-74		722
1.700	13	691	0		-40	14	-100	0		-33	15	-11		470	16	-79		612
1.745	13	502	0		-52	14	-209	0		-37	15	-19		315	16	-89		424
1.750	13	480	0		-51	14	-223	0		-38	15	-18		217	16	-88		405
1.800	13	243	0		-54	14	-373	0		-50	15	-25		46	16	-98		159
1.801	13	241	0		-51	14	-375	0		-51	15	-23		44	16	-96		156
1.850	13	5	0		-61	14	-563	0		-59	15	-29		-115	16	-106		-118
1.900	13	-240	0		-64	14	-798	0		-82	15	-36		-304	16	-117		-434
1.900	13	-241	0		-64	14	-800	0		-83	15	-36		-305	16	-117		-436
1.950	13	-492	0		-81	14	-1103	0		-93	15	-43		-544	16	-129		-795
2.000	13	-725	0		-51	14	-1451	0		-105	15	-50		-759	16	-141		-1202
2.000	13	-725	0		51	14	-1451	0		105	15	140		-1210	16	49		-779
2.050	13	-496	0		81	14	-1103	0		93	15	128		-812	16	43		-546
2.100	13	-252	0		64	14	-801	0		81	15	117		-456	16	36		-303
2.101	13	-249	0		64	14	-798	0		81	15	117		-452	16	36		-301
2.150	13	-16	0		59	14	-551	0		58	15	107		-143	16	28		-100
2.200	13	211	0		54	14	-361	0		50	15	97		129	16	21		71
2.201	13	215	0		57	14	-357	0		48	15	99		134	16	24		74
2.250	13	445	0		50	14	-214	0		37	15	88		375	16	15		233
2.250	13	442	0		53	14	-214	0		36	15	90		369	16	17		320
2.251	13	447	0		52	14	-211	0		36	15	89		375	16	17		324
2.260	13	487	0		50	14	-189	0		36	15	87		414	16	16		354
2.300	13	651	0		42	14	-94	0		32	15	80		574	16	11		483
2.334	13	776	0		33	14	-22	0		29	15	73		695	16	5		568
2.350	13	825	0		32	14	10	0		27	15	72		735	16	4		621
2.400	13	964	0		22	14	99	0		23	15	63		863	16	-3		742

----- FACTORED FORCE SUMMARY -----

SERVICE-II PERMIT (Cont'd)
 MULTI LANE WITH IMPACT
 LL CASE: 2 NAME: HL-93-ED

SPAN.LOC		MAX MOMENT			MIN MOMENT			MAX SHEAR			MIN SHEAR			
FRAC	COMB	M	COR ML	COR V	COMB	M	COR ML	COR V	COMB	V	COR M	COMB	V	COR M
	NO	(ft-k)	(ft-k)	(kips)	NO	(ft-k)	(ft-k)	(kips)	NO	(kips)	(ft-k)	NO	(kips)	(ft-k)
2.450	13	1067	0	13	14	172	0	19	15	55	956	16	-10	839
2.467	13	1095	0	13	14	193	0	17	15	55	975	16	-10	876
2.500	13	1143	0	8	14	229	0	14	15	50	1014	16	-14	928
2.550	13	1188	0	4	14	271	0	10	15	41	1046	16	-21	993
2.600	13	1211	0	14	14	297	0	6	15	33	1043	16	-28	1026
2.630	13	1207	0	6	14	307	0	3	15	27	937	16	-34	1126
2.650	13	1196	0	4	14	310	0	2	15	25	920	16	-36	1124
2.700	13	1144	0	-6	14	309	0	-2	15	18	870	16	-44	1091
2.733	13	1089	0	-13	14	301	0	-5	15	15	816	16	-48	1054
2.750	13	1063	0	-14	14	293	0	-7	15	14	670	16	-50	1030
2.800	13	952	0	-24	14	263	0	-11	15	6	596	16	-59	929
2.850	13	798	0	-45	14	218	0	-15	15	-2	492	16	-69	784
2.867	13	736	0	-72	14	199	0	-18	15	-5	450	16	-73	724
2.900	13	594	0	-80	14	153	0	-21	15	-11	349	16	-80	587
2.950	13	332	0	-93	14	69	0	-26	15	-20	167	16	-93	330
3.000	13	2	0	-56	14	-31	0	-59	15	-27	0	16	-106	-1
3.000	13	1	0	-48	14	-32	0	-68	15	-27	-1	16	-106	-3
3.000	13	-1	0	1	14	-30	0	35	15	37	-17	13	1	-1
3.231	13	0	0	1	14	-22	0	28	15	37	-8	13	1	0
4.000	13	0	0	0	14	0	0	0	15	26	0	13	0	0

FATIGUE-INFINITE
 ONE LANE WITH IMPACT
 LL CASE: 3 NAME: HL-93-ED

SPAN.LOC FRAC	DEAD LOAD				LIVE LOAD							
	ADL MOM (ft-k)	ADL M LAT (ft-k)	BDL+DW MOM (ft-k)	BDL+DW M LAT (ft-k)	LOAD COMB NO	LL CASE NO	MAX MOM (ft-k)	CORR M LAT (ft-k)	LOAD COMB NO	LL CASE NO	MIN MOM (ft-k)	CORR M LAT (ft-k)
0.000	0	0	0	0	1	3	0	0	2	3	-2	0
0.769	0	0	0	0	1	3	1	0	2	3	-23	0
1.000	-1	0	0	0	1	3	1	0	2	3	-30	0
1.000	-1	0	0	0	1	3	1	0	2	3	-30	0
1.000	0	0	0	0	1	3	1	0	2	3	-30	0
1.050	90	0	33	0	1	3	118	0	2	3	-24	0
1.100	167	0	61	0	1	3	198	0	2	3	-20	0
1.133	212	0	78	0	1	3	238	0	2	3	-18	0
1.150	232	0	86	0	1	3	251	0	2	3	-17	0
1.200	284	0	105	0	1	3	284	0	2	3	-21	0
1.250	323	0	120	0	1	3	309	0	2	3	-26	0
1.267	333	0	124	0	1	3	316	0	2	3	-28	0
1.300	348	0	130	0	1	3	329	0	2	3	-31	0
1.350	361	0	136	0	1	3	342	0	2	3	-37	0
1.372	362	0	137	0	1	3	345	0	2	3	-39	0
1.400	360	0	137	0	1	3	344	0	2	3	-42	0
1.450	346	0	134	0	1	3	338	0	2	3	-47	0
1.500	320	0	126	0	1	3	331	0	2	3	-53	0
1.533	295	0	119	0	1	3	328	0	2	3	-56	0
1.550	280	0	114	0	1	3	328	0	2	3	-58	0
1.600	227	0	97	0	1	3	323	0	2	3	-64	0
1.650	161	0	76	0	1	3	305	0	2	3	-72	0
1.667	135	0	67	0	1	3	297	0	2	3	-75	0
1.700	82	0	50	0	1	3	276	0	2	3	-80	0
1.745	0	0	22	0	1	3	238	0	2	3	-88	0
1.750	-10	0	19	0	1	3	233	0	2	3	-89	0
1.800	-115	0	-16	0	1	3	182	0	2	3	-101	0
1.801	-117	0	-16	0	1	3	181	0	2	3	-101	0
1.850	-234	0	-56	0	1	3	145	0	2	3	-116	0
1.900	-366	0	-100	0	1	3	102	0	2	3	-134	0
1.900	-367	0	-100	0	1	3	102	0	2	3	-134	0

----- FACTORED FORCE SUMMARY -----

FATIGUE-INFINITE (Cont'd)

ONE LANE WITH IMPACT

LL CASE: 3 NAME: HL-93-ED

SPAN.LOC FRAC	DEAD LOAD				LIVE LOAD							
	ADL	ADL	BDL+DW	BDL+DW	LOAD	LL	MAX	CORR	LOAD	LL	MIN	CORR
	MOM (ft-k)	M LAT (ft-k)	MOM (ft-k)	M LAT (ft-k)	COMB NO	CASE NO	MOM (ft-k)	M LAT (ft-k)	COMB NO	CASE NO	MOM (ft-k)	M LAT (ft-k)
1.950	-511	0	-148	0	1	3	56	0	2	3	-154	0
2.000	-669	0	-201	0	1	3	3	0	2	3	-223	0
2.000	-669	0	-201	0	1	3	3	0	2	3	-223	0
2.050	-513	0	-148	0	1	3	54	0	2	3	-146	0
2.100	-370	0	-100	0	1	3	99	0	2	3	-125	0
2.101	-368	0	-99	0	1	3	100	0	2	3	-125	0
2.150	-239	0	-55	0	1	3	139	0	2	3	-109	0
2.200	-122	0	-16	0	1	3	172	0	2	3	-93	0
2.201	-120	0	-15	0	1	3	173	0	2	3	-93	0
2.250	-19	0	19	0	1	3	222	0	2	3	-82	0
2.250	-19	0	19	0	1	3	220	0	2	3	-83	0
2.251	-17	0	20	0	1	3	222	0	2	3	-82	0
2.260	0	0	26	0	1	3	230	0	2	3	-80	0
2.300	72	0	50	0	1	3	262	0	2	3	-73	0
2.334	126	0	68	0	1	3	285	0	2	3	-68	0
2.350	149	0	76	0	1	3	292	0	2	3	-66	0
2.400	215	0	97	0	1	3	309	0	2	3	-59	0
2.450	267	0	114	0	1	3	316	0	2	3	-53	0
2.467	282	0	119	0	1	3	316	0	2	3	-51	0
2.500	307	0	127	0	1	3	319	0	2	3	-48	0
2.550	333	0	134	0	1	3	328	0	2	3	-43	0
2.600	347	0	138	0	1	3	334	0	2	3	-38	0
2.630	349	0	137	0	1	3	335	0	2	3	-35	0
2.650	348	0	136	0	1	3	332	0	2	3	-33	0
2.700	337	0	131	0	1	3	321	0	2	3	-29	0
2.733	322	0	124	0	1	3	307	0	2	3	-25	0
2.750	312	0	120	0	1	3	301	0	2	3	-24	0
2.800	275	0	105	0	1	3	278	0	2	3	-19	0
2.850	225	0	86	0	1	3	248	0	2	3	-17	0
2.867	206	0	78	0	1	3	234	0	2	3	-18	0
2.900	162	0	62	0	1	3	198	0	2	3	-20	0
2.950	87	0	33	0	1	3	119	0	2	3	-24	0
3.000	0	0	0	0	1	3	1	0	2	3	-29	0
3.000	-1	0	0	0	1	3	1	0	2	3	-30	0
3.000	-1	0	0	0	1	3	0	0	2	3	-29	0
3.231	0	0	0	0	1	3	0	0	2	3	-22	0
4.000	0	0	0	0	1	3	0	0	2	3	0	0

FATIGUE-FINITE

ONE LANE WITH IMPACT

LL CASE: 3 NAME: HL-93-ED

SPAN.LOC FRAC	DEAD LOAD				LIVE LOAD							
	ADL	ADL	BDL+DW	BDL+DW	LOAD	LL	MAX	CORR	LOAD	LL	MIN	CORR
	MOM (ft-k)	M LAT (ft-k)	MOM (ft-k)	M LAT (ft-k)	COMB NO	CASE NO	MOM (ft-k)	M LAT (ft-k)	COMB NO	CASE NO	MOM (ft-k)	M LAT (ft-k)
0.000	0	0	0	0	3	3	0	0	4	3	-1	0
0.769	0	0	0	0	3	3	0	0	4	3	-12	0
1.000	-1	0	0	0	3	3	0	0	4	3	-15	0
1.000	-1	0	0	0	3	3	0	0	4	3	-15	0
1.000	0	0	0	0	3	3	0	0	4	3	-15	0
1.050	90	0	33	0	3	3	59	0	4	3	-12	0
1.100	167	0	61	0	3	3	99	0	4	3	-10	0
1.133	212	0	78	0	3	3	119	0	4	3	-9	0
1.150	232	0	86	0	3	3	126	0	4	3	-8	0
1.200	284	0	105	0	3	3	142	0	4	3	-10	0
1.250	323	0	120	0	3	3	154	0	4	3	-13	0
1.267	333	0	124	0	3	3	158	0	4	3	-14	0
1.300	348	0	130	0	3	3	165	0	4	3	-16	0

----- FACTORED FORCE SUMMARY -----

FATIGUE-FINITE (Cont'd)

ONE LANE WITH IMPACT

LL CASE: 3 NAME: HL-93-ED

SPAN.LOC FRAC	DEAD LOAD				LIVE LOAD							
	ADL MOM (ft-k)	ADL M LAT (ft-k)	BDL+DW MOM (ft-k)	BDL+DW M LAT (ft-k)	LOAD COMB NO	LL CASE NO	MAX MOM (ft-k)	CORR M LAT (ft-k)	LOAD COMB NO	LL CASE NO	MIN MOM (ft-k)	CORR M LAT (ft-k)
1.350	361	0	136	0	3	3	171	0	4	3	-18	0
1.372	362	0	137	0	3	3	173	0	4	3	-19	0
1.400	360	0	137	0	3	3	172	0	4	3	-21	0
1.450	346	0	134	0	3	3	169	0	4	3	-24	0
1.500	320	0	126	0	3	3	165	0	4	3	-26	0
1.533	295	0	119	0	3	3	164	0	4	3	-28	0
1.550	280	0	114	0	3	3	164	0	4	3	-29	0
1.600	227	0	97	0	3	3	161	0	4	3	-32	0
1.650	161	0	76	0	3	3	153	0	4	3	-36	0
1.667	135	0	67	0	3	3	149	0	4	3	-37	0
1.700	82	0	50	0	3	3	138	0	4	3	-40	0
1.745	0	0	22	0	3	3	119	0	4	3	-44	0
1.750	-10	0	19	0	3	3	116	0	4	3	-45	0
1.800	-115	0	-16	0	3	3	91	0	4	3	-50	0
1.801	-117	0	-16	0	3	3	91	0	4	3	-51	0
1.850	-234	0	-56	0	3	3	72	0	4	3	-58	0
1.900	-366	0	-100	0	3	3	51	0	4	3	-67	0
1.900	-367	0	-100	0	3	3	51	0	4	3	-67	0
1.950	-511	0	-148	0	3	3	28	0	4	3	-77	0
2.000	-669	0	-201	0	3	3	1	0	4	3	-112	0
2.000	-669	0	-201	0	3	3	1	0	4	3	-112	0
2.050	-513	0	-148	0	3	3	27	0	4	3	-73	0
2.100	-370	0	-100	0	3	3	50	0	4	3	-63	0
2.101	-368	0	-99	0	3	3	50	0	4	3	-62	0
2.150	-239	0	-55	0	3	3	69	0	4	3	-54	0
2.200	-122	0	-16	0	3	3	86	0	4	3	-47	0
2.201	-120	0	-15	0	3	3	86	0	4	3	-46	0
2.250	-19	0	19	0	3	3	111	0	4	3	-41	0
2.250	-19	0	19	0	3	3	110	0	4	3	-41	0
2.251	-17	0	20	0	3	3	111	0	4	3	-41	0
2.260	0	0	26	0	3	3	115	0	4	3	-40	0
2.300	72	0	50	0	3	3	131	0	4	3	-37	0
2.334	126	0	68	0	3	3	143	0	4	3	-34	0
2.350	149	0	76	0	3	3	146	0	4	3	-33	0
2.400	215	0	97	0	3	3	155	0	4	3	-29	0
2.450	267	0	114	0	3	3	158	0	4	3	-27	0
2.467	282	0	119	0	3	3	158	0	4	3	-26	0
2.500	307	0	127	0	3	3	160	0	4	3	-24	0
2.550	333	0	134	0	3	3	164	0	4	3	-22	0
2.600	347	0	138	0	3	3	167	0	4	3	-19	0
2.630	349	0	137	0	3	3	167	0	4	3	-18	0
2.650	348	0	136	0	3	3	166	0	4	3	-17	0
2.700	337	0	131	0	3	3	160	0	4	3	-14	0
2.733	322	0	124	0	3	3	153	0	4	3	-13	0
2.750	312	0	120	0	3	3	151	0	4	3	-12	0
2.800	275	0	105	0	3	3	139	0	4	3	-9	0
2.850	225	0	86	0	3	3	124	0	4	3	-8	0
2.867	206	0	78	0	3	3	117	0	4	3	-9	0
2.900	162	0	62	0	3	3	99	0	4	3	-10	0
2.950	87	0	33	0	3	3	60	0	4	3	-12	0
3.000	0	0	0	0	3	3	0	0	4	3	-15	0
3.000	-1	0	0	0	3	3	0	0	4	3	-15	0
3.000	-1	0	0	0	3	3	0	0	4	3	-14	0
3.231	0	0	0	0	3	3	0	0	4	3	-11	0
4.000	0	0	0	0	3	3	0	0	4	3	0	0

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----- FINAL RATING RESULTS - SUMMARY OF GIRDER RESULTS -----

RATING CODES
 CODE 0 None
 CODE 4 Moment
 CODE 5 Shear
 CODE 6 Interaction

LL CASE NUMBER: 1 LL CASE NAME: HL-93-ED
 TOTAL AXLE WEIGHT = 36.000 (Tons)

LOADING CONDITION: MULTIPLE LANE WITH IMPACT
 SPAN LOC. = 2.000 INVENTORY STRENGTH RATING = Factor 1.93945 Tons 69.820 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 82.889 0.367
 MIN MOMENT CORRESPONDING SHEAR = -10964.820 -77.684
 MAX SHEAR CORRESPONDING MOMENT = 3.237 -708.035
 MIN SHEAR CORRESPONDING MOMENT = -151.942 -7730.984
 SPAN LOC. = 2.000 OPERATING STRENGTH RATING = Factor 2.51562 Tons 90.562 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 107.513 0.476
 MIN MOMENT CORRESPONDING SHEAR = -14222.243 -100.762
 MAX SHEAR CORRESPONDING MOMENT = 4.199 -918.378
 MIN SHEAR CORRESPONDING MOMENT = -197.080 -10027.702
 SPAN LOC. = 2.000 INVENTORY SERVICABILITY RATING = Factor 1.87695 Tons 67.570 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 80.218 0.355
 MIN MOMENT CORRESPONDING SHEAR = -10611.472 -75.181
 MAX SHEAR CORRESPONDING MOMENT = 3.133 -685.218
 MIN SHEAR CORRESPONDING MOMENT = -147.045 -7481.849
 SPAN LOC. = 2.000 OPERATING SERVICABILITY RATING = Factor 2.44141 Tons 87.891 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 104.341 0.462
 MIN MOMENT CORRESPONDING SHEAR = -13802.643 -97.790
 MAX SHEAR CORRESPONDING MOMENT = 4.075 -891.283
 MIN SHEAR CORRESPONDING MOMENT = -191.266 -9731.853

LL CASE NUMBER: 2 LL CASE NAME: HL-93-ED
 TOTAL AXLE WEIGHT = 36.000 (Tons)

LOADING CONDITION: MULTIPLE LANE WITH IMPACT
 SPAN LOC. = 2.000 LEGAL TK STRENGTH RATING = Factor 2.24805 Tons 80.930 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 96.078 0.425
 MIN MOMENT CORRESPONDING SHEAR = -12709.474 -90.045
 MAX SHEAR CORRESPONDING MOMENT = 3.752 -820.693
 MIN SHEAR CORRESPONDING MOMENT = -176.118 -8961.091
 SPAN LOC. = 2.000 PERMIT TK STRENGTH RATING = Factor 1.88672 Tons 67.922 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 80.635 0.357
 MIN MOMENT CORRESPONDING SHEAR = -10666.683 -75.572
 MAX SHEAR CORRESPONDING MOMENT = 3.149 -688.783
 MIN SHEAR CORRESPONDING MOMENT = -147.810 -7520.776
 SPAN LOC. = 2.000 LEGAL TK SERVICE RATING = Factor 1.87695 Tons 67.570 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 80.218 0.355
 MIN MOMENT CORRESPONDING SHEAR = -10611.472 -75.181
 MAX SHEAR CORRESPONDING MOMENT = 3.133 -685.218
 MIN SHEAR CORRESPONDING MOMENT = -147.045 -7481.849
 SPAN LOC. = 2.000 PERMIT TK SERVICE RATING = Factor 2.44141 Tons 87.891 CODE 4
 MAX MOMENT CORRESPONDING SHEAR = 104.341 0.462
 MIN MOMENT CORRESPONDING SHEAR = -13802.643 -97.790
 MAX SHEAR CORRESPONDING MOMENT = 4.075 -891.283
 MIN SHEAR CORRESPONDING MOMENT = -191.266 -9731.853

LL CASE NUMBER: 3 LL CASE NAME: HL-93-ED
 TOTAL AXLE WEIGHT = 36.000 (Tons)

LOADING CONDITION: ONE LANE WITH IMPACT

----- DIAPHRAGM AND STIFFENER SPACING SUMMARY -----

		---- INPUT SPACING ----	
SPAN.LOC	DISTANCE	DIAPHRAGM	STIFFENER
FRAC	(ft)	(ft)	(in)
0.000	0.000	1.083	13.000

RUN TIME: 05/12/2014 10:14:26.220

OUTPUT

Filename: M:\jobs\46583..\300..\330..\TechProd\Load Ratings\Analysis\2771-Six Mile Falls\BDGS\SteelDsn-GRID\S3.OUT

----- DIAPHRAGM AND STIFFENER SPACING SUMMARY -----

SPAN.LOC FRAC	DISTANCE (ft)	---- INPUT SPACING ----	
		DIAPHRAGM (ft)	STIFFENER (in)
0.769	0.833	1.083	13.000
1.000	1.083	1.083	13.000
1.000	1.083	18.667	224.000
1.000	1.107	18.667	224.000
1.050	4.583	18.667	224.000
1.100	8.083	18.667	224.000
1.133	10.417	18.667	224.000
1.150	11.583	18.667	224.000
1.200	15.083	18.667	224.000
1.250	18.583	18.667	224.000
1.267	19.750	18.667	224.000
1.300	22.083	18.667	224.000
1.350	25.583	18.667	224.000
1.372	27.154	18.667	224.000
1.400	29.083	18.667	224.000
1.450	32.583	18.667	224.000
1.500	36.083	18.667	224.000
1.533	38.417	18.708	224.497
1.550	39.583	18.708	224.497
1.600	43.083	18.708	224.497
1.650	46.583	18.708	224.497
1.667	47.771	18.708	224.497
1.700	50.083	18.708	224.497
1.745	53.212	18.708	224.497
1.750	53.583	18.708	224.497
1.800	57.083	18.708	224.497
1.801	57.125	13.959	167.503
1.850	60.583	13.959	167.503
1.900	64.083	13.959	167.503
1.900	64.104	13.959	167.503
1.950	67.583	13.959	167.503
2.000	71.083	13.959	167.503
2.000	71.083	14.078	168.936
2.050	74.583	14.078	168.936
2.100	78.083	14.078	168.936
2.101	78.122	14.078	168.936
2.150	81.583	14.078	168.936
2.200	85.083	14.078	168.936
2.201	85.161	18.589	223.064
2.250	88.583	18.589	223.064
2.251	88.664	18.589	223.064
2.260	89.276	18.589	223.064
2.300	92.083	18.589	223.064
2.334	94.456	18.589	223.064
2.350	95.583	18.589	223.064
2.400	99.083	18.589	223.064
2.450	102.583	18.589	223.064
2.467	103.750	18.667	224.000
2.500	106.083	18.667	224.000
2.550	109.583	18.667	224.000
2.600	113.083	18.667	224.000
2.630	115.176	18.667	224.000
2.650	116.583	18.667	224.000
2.700	120.083	18.667	224.000
2.733	122.417	18.667	224.000
2.750	123.583	18.667	224.000
2.800	127.083	18.667	224.000
2.850	130.583	18.667	224.000
2.867	131.750	18.667	224.000
2.900	134.083	18.667	224.000
2.950	137.583	18.667	224.000
3.000	141.060	18.667	224.000
3.000	141.083	18.667	224.000

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----- DIAPHRAGM AND STIFFENER SPACING SUMMARY -----

---- INPUT SPACING ----			
SPAN.LOC	DISTANCE	DIAPHRAGM	STIFFENER
FRAC	(ft)	(ft)	(in)
3.000	141.083	1.083	13.000
3.231	141.333	1.083	13.000

----- LRFR RATING SUMMARY -----

LL CASE NUMBER: 1 CONTROLLING RATING CODES: M = MOMENT
 LL PATTERN: HL-93-ED V = SHEAR
 COMBINATION TABLE: LRFR2009 STANDARD (Default) « = CONTROLLING LOCATION
 LANE POSITION: MULTIPLE LANE WITH IMPACT * = DEFICIENT

SPAN.LOC		DISTANCE		STRENGTH				SERVICE			
FRAC	(ft)	INVENTORY	OPERATING	LEGAL	PERMIT	INVENTORY	OPERATING	LEGAL	PERMIT		
0.000	0.000	10.000	10.000			10.000	10.000				
0.769	0.833	10.000	10.000			10.000	10.000				
1.000	1.083	9.963	V	10.000		10.000	10.000				
1.000	1.083	4.799	V	6.221	V	10.000	10.000				
1.000	1.107	4.803	V	6.227	V	10.000	10.000				
1.050	4.583	5.531	V	7.170	V	10.000	10.000				
1.100	8.083	5.613	M	7.277	M	5.807	M	7.549	M		
1.133	10.417	4.484	M	5.812	M	4.598	M	5.979	M		
1.150	11.583	4.109	M	5.326	M	4.197	M	5.455	M		
1.200	15.083	3.396	M	4.404	M	3.432	M	4.461	M		
1.250	18.583	3.014	M	3.906	M	3.018	M	3.924	M		
1.267	19.750	2.932	M	3.801	M	2.930	M	3.809	M		
1.300	22.083	2.762	M	3.578	M	2.748	M	3.572	M		
1.350	25.583	2.605	M	3.377	M	2.586	M	3.363	M		
1.372	27.154	2.564	M	3.324	M	2.545	M	3.309	M		
1.400	29.083	2.545	M	3.301	M	2.527	M	3.285	M		
1.450	32.583	2.574	M	3.338	M	2.564	M	3.334	M		
1.500	36.083	2.643	M	3.426	M	2.648	M	3.443	M		
1.533	38.417	2.732	M	3.543	M	2.754	M	3.580	M		
1.550	39.583	2.781	M	3.605	M	2.812	M	3.656	M		
1.600	43.083	2.990	M	3.877	M	3.057	M	3.975	M		
1.650	46.583	3.338	M	4.328	M	3.457	M	4.496	M		
1.667	47.771	3.496	M	4.531	M	3.637	M	4.729	M		
1.700	50.083	3.896	M	5.053	M	4.094	M	5.322	M		
1.745	53.212	4.713	M	6.109	M	5.020	M	6.525	M		
1.750	53.583	4.822	M	6.250	M	5.143	M	6.686	M		
1.800	57.083	5.855	V	7.590	V	7.055	M	9.172	M		
1.801	57.125	5.992	V	7.770	V	7.061	M	9.180	M		
1.850	60.583	5.543	V	7.188	V	5.781	M	7.516	M		
1.900	64.083	4.316	M	5.594	M	4.291	M	5.580	M		
1.900	64.104	4.316	M	5.596	M	4.293	M	5.580	M		
1.950	67.583	2.900	M	3.762	M	2.854	M	3.709	M		
2.000	71.083	1.939«	M	2.516«	M	1.877«	M	2.441«	M		
2.000	71.083	1.939«	M	2.516«	M	1.877«	M	2.441«	M		
2.050	74.583	2.912	M	3.775	M	2.863	M	3.723	M		
2.100	78.083	4.330	M	5.613	M	4.305	M	5.596	M		
2.101	78.122	4.350	M	5.639	M	4.324	M	5.621	M		
2.150	81.583	5.566	V	7.217	V	6.139	M	7.982	M		
2.200	85.083	6.150	V	7.973	V	7.561	M	9.830	M		
2.201	85.161	5.895	V	7.641	V	7.557	M	9.824	M		
2.250	88.583	3.641	M	4.721	M	4.660	M	6.059	M		
2.251	88.664	4.498	M	5.832	M	4.629	M	6.018	M		
2.260	89.276	4.291	M	5.562	M	4.402	M	5.723	M		
2.300	92.083	3.590	M	4.654	M	3.621	M	4.707	M		
2.334	94.456	3.189	M	4.135	M	3.170	M	4.123	M		
2.350	95.583	3.045	M	3.949	M	3.008	M	3.910	M		
2.400	99.083	2.709	M	3.512	M	2.625	M	3.412	M		
2.450	102.583	2.504	M	3.246	M	2.385	M	3.102	M		
2.467	103.750	2.455	M	3.184	M	2.328	M	3.027	M		
2.500	106.083	2.365	M	3.064	M	2.223	M	2.891	M		
2.550	109.583	2.293	M	2.975	M	2.137	M	2.777	M		

**CONTROLLING RATING
FOR INTERIOR GIRDER**

----- LRFR RATING SUMMARY -----

LL CASE NUMBER: 1 CONTROLLING RATING CODES: M = MOMENT
 LL PATTERN: HL-93-ED V = SHEAR
 COMBINATION TABLE: LRFR2009 STANDARD (Default) <= CONTROLLING LOCATION
 LANE POSITION: MULTIPLE LANE WITH IMPACT (Cont'd) * = DEFICIENT

SPAN.LOC	DISTANCE	STRENGTH				SERVICE			
FRAC	(ft)	INVENTORY	OPERATING	LEGAL	PERMIT	INVENTORY	OPERATING	LEGAL	PERMIT
2.600	113.083	2.262 M	2.932 M			2.096 M	2.725 M		
2.630	115.176	2.277 M	2.951 M			2.107 M	2.740 M		
2.650	116.583	2.309 M	2.994 M			2.139 M	2.781 M		
2.700	120.083	2.445 M	3.170 M			2.273 M	2.957 M		
2.733	122.417	2.598 M	3.367 M			2.430 M	3.158 M		
2.750	123.583	2.668 M	3.459 M			2.504 M	3.256 M		
2.800	127.083	3.006 M	3.896 M			2.857 M	3.715 M		
2.850	130.583	3.633 M	4.709 M			3.510 M	4.562 M		
2.867	131.750	3.963 M	5.137 M			3.852 M	5.008 M		
2.900	134.083	4.955 M	6.424 M			4.879 M	6.344 M		
2.950	137.583	5.168 V	6.699 V			9.062 M	10.000		
3.000	141.060	4.494 V	5.826 V			10.000	10.000		
3.000	141.083	4.494 V	5.824 V			10.000	10.000		
3.000	141.083	9.494 V	10.000			10.000	10.000		
3.231	141.333	9.525 V	10.000			10.000	10.000		

LL CASE NUMBER: 2 CONTROLLING RATING CODES: M = MOMENT
 LL PATTERN: HL-93-ED V = SHEAR
 COMBINATION TABLE: LRFR2009 LEGAL & PERMIT (Default) <= CONTROLLING LOCATION
 LANE POSITION: MULTIPLE LANE WITH IMPACT * = DEFICIENT

SPAN.LOC	DISTANCE	STRENGTH				SERVICE			
FRAC	(ft)	INVENTORY	OPERATING	LEGAL	PERMIT	INVENTORY	OPERATING	LEGAL	PERMIT
0.000	0.000			10.000	10.000			10.000	10.000
0.769	0.833			10.000	9.732 V			10.000	10.000
1.000	1.083			10.000	9.686 V			10.000	10.000
1.000	1.083			5.562 V	4.666 V			10.000	10.000
1.000	1.107			5.568 V	4.670 V			10.000	10.000
1.050	4.583			6.410 V	5.377 V			10.000	10.000
1.100	8.083			6.508 M	5.457 M			5.807 M	7.549 M
1.133	10.417			5.197 M	4.359 M			4.598 M	5.979 M
1.150	11.583			4.764 M	3.994 M			4.197 M	5.455 M
1.200	15.083			3.938 M	3.303 M			3.432 M	4.461 M
1.250	18.583			3.494 M	2.930 M			3.018 M	3.924 M
1.267	19.750			3.398 M	2.852 M			2.930 M	3.809 M
1.300	22.083			3.201 M	2.684 M			2.748 M	3.572 M
1.350	25.583			3.020 M	2.533 M			2.586 M	3.363 M
1.372	27.154			2.973 M	2.492 M			2.545 M	3.309 M
1.400	29.083			2.951 M	2.475 M			2.527 M	3.285 M
1.450	32.583			2.984 M	2.504 M			2.564 M	3.334 M
1.500	36.083			3.062 M	2.568 M			2.648 M	3.443 M
1.533	38.417			3.168 M	2.656 M			2.754 M	3.580 M
1.550	39.583			3.225 M	2.705 M			2.812 M	3.656 M
1.600	43.083			3.467 M	2.908 M			3.057 M	3.975 M
1.650	46.583			3.871 M	3.246 M			3.457 M	4.496 M
1.667	47.771			4.051 M	3.398 M			3.637 M	4.729 M
1.700	50.083			4.518 M	3.789 M			4.094 M	5.322 M
1.745	53.212			5.463 M	4.582 M			5.020 M	6.525 M
1.750	53.583			5.590 M	4.688 M			5.143 M	6.686 M
1.800	57.083			6.787 V	5.691 V			7.055 M	9.172 M
1.801	57.125			6.947 V	5.826 V			7.061 M	9.180 M
1.850	60.583			6.426 V	5.391 V			5.781 M	7.516 M
1.900	64.083			5.002 M	4.195 M			4.291 M	5.580 M
1.900	64.104			5.004 M	4.197 M			4.293 M	5.580 M
1.950	67.583			3.363 M	2.820 M			2.854 M	3.709 M
2.000	71.083			2.248< M	1.887< M			1.877< M	2.441< M
2.000	71.083			2.248< M	1.887< M			1.877< M	2.441< M
2.050	74.583			3.375 M	2.830 M			2.863 M	3.723 M

----- LRFR RATING SUMMARY -----

LL CASE NUMBER: 2

LL PATTERN: HL-93-ED

COMBINATION TABLE: LRFR2009 LEGAL & PERMIT (Default

LANE POSITION: MULTIPLE LANE WITH IMPACT (Cont'd)

CONTROLLING RATING CODES: M = MOMENT

V = SHEAR

« = CONTROLLING LOCATION

* = DEFICIENT

SPAN.LOC	DISTANCE FRAC (ft)	STRENGTH				SERVICE			
		INVENTORY	OPERATING	LEGAL	PERMIT	INVENTORY	OPERATING	LEGAL	PERMIT
2.100	78.083			5.020 M	4.209 M			4.305 M	5.596 M
2.101	78.122			5.041 M	4.229 M			4.324 M	5.621 M
2.150	81.583			6.453 V	5.412 V			6.139 M	7.982 M
2.200	85.083			7.129 V	5.980 V			7.561 M	9.830 M
2.201	85.161			6.832 V	5.730 V			7.557 M	9.824 M
2.250	88.583			4.221 M	3.541 M			4.660 M	6.059 M
2.251	88.664			5.215 M	4.373 M			4.629 M	6.018 M
2.260	89.276			4.973 M	4.172 M			4.402 M	5.723 M
2.300	92.083			4.162 M	3.490 M			3.621 M	4.707 M
2.334	94.456			3.697 M	3.100 M			3.170 M	4.123 M
2.350	95.583			3.531 M	2.961 M			3.008 M	3.910 M
2.400	99.083			3.139 M	2.633 M			2.625 M	3.412 M
2.450	102.583			2.902 M	2.434 M			2.385 M	3.102 M
2.467	103.750			2.846 M	2.387 M			2.328 M	3.027 M
2.500	106.083			2.740 M	2.299 M			2.223 M	2.891 M
2.550	109.583			2.658 M	2.230 M			2.137 M	2.777 M
2.600	113.083			2.621 M	2.197 M			2.096 M	2.725 M
2.630	115.176			2.639 M	2.213 M			2.107 M	2.740 M
2.650	116.583			2.678 M	2.246 M			2.139 M	2.781 M
2.700	120.083			2.834 M	2.377 M			2.273 M	2.957 M
2.733	122.417			3.012 M	2.525 M			2.430 M	3.158 M
2.750	123.583			3.094 M	2.594 M			2.504 M	3.256 M
2.800	127.083			3.484 M	2.922 M			2.857 M	3.715 M
2.850	130.583			4.211 M	3.531 M			3.510 M	4.562 M
2.867	131.750			4.594 M	3.852 M			3.852 M	5.008 M
2.900	134.083			5.744 M	4.818 M			4.879 M	6.344 M
2.950	137.583			5.990 V	5.023 V			9.062 M	10.000
3.000	141.060			5.211 V	4.369 V			10.000	10.000
3.000	141.083			5.209 V	4.369 V			10.000	10.000
3.000	141.083			10.000	9.230 V			10.000	10.000
3.231	141.333			10.000	9.262 V			10.000	10.000

FATIGUE LIFE EVALUATION

Fatigue Life Evaluation

Description of Fatigue Details

The bridge girder details include lateral bracing attached to the girders using vertical connection plates welded to the full height of girder webs. These plates are located along the length of the structure. The plates are present at interior and exterior girder locations. This is a Category C' detail in accordance with AASHTO LRFD, Table 6.6.1.2.3-1, Example 4.1

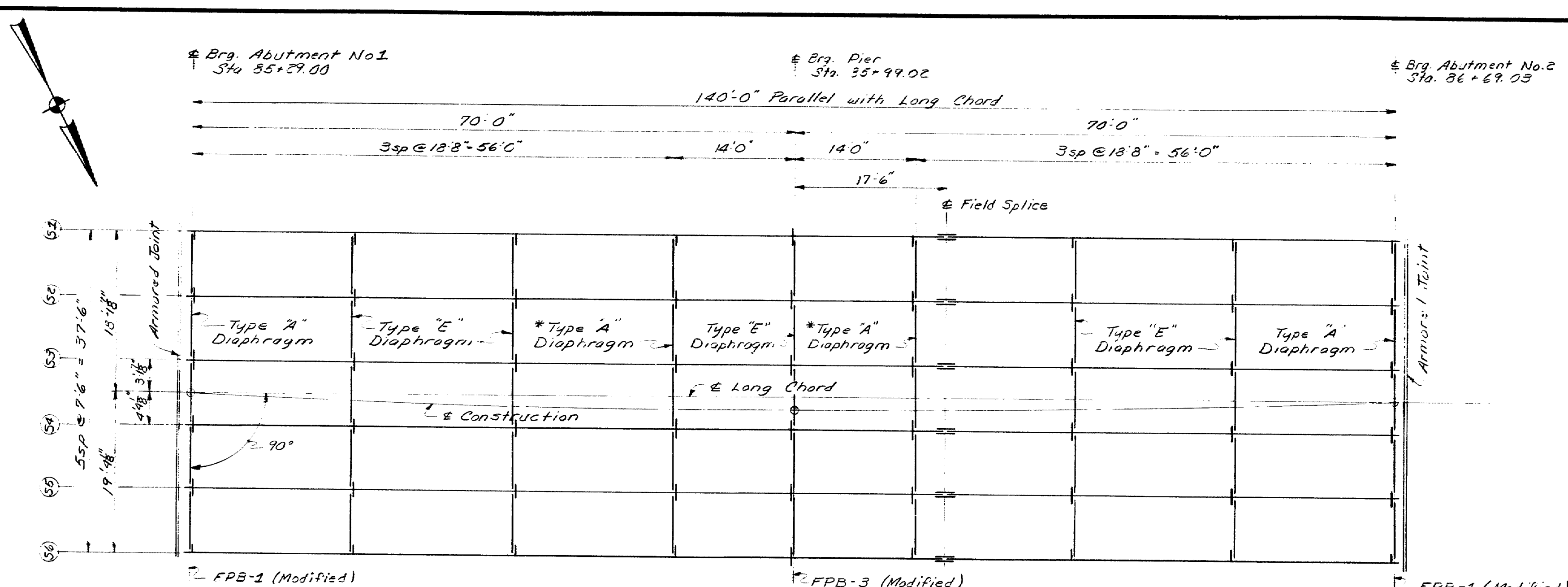
Detail checked by this Welded connection plates
Fatigue Detail Category: C'
Fatigue Detail Location: Located full height of web. Located along full span length of interior and exterior girders

Infinite Fatigue Life Evaluation

LL Moment Range	$M_{TRK} = 275 \text{ ft*kip}$	<i>Moment range calculated as $(M_{max} - M_{min})$ based on one lane of traffic. Unfactored fatigue truck only without impact. (G1-Line model)</i>
Single Lane Dist. Factor	$D.F. = 1.0$	<i>From load rating model. Includes m.</i>
Fatigue Impact	$IM = 15\%$	<i>From LRFD Table 3.6.2.1-1</i>
Section Modulus	$S_{xx} = 534 \text{ in}^3$	<i>From Load Rating Calculations</i>
Fatigue I Load Factor	$\gamma_{Fat} = 1.50$	
Effective Stress Range	$\Delta f_{eff} = (\gamma_{Fat} * (1+IM) * M_{TRK} * 12 * D.F.) / (S_{xx})$ $\Delta f_{eff} = 10.66 \text{ ksi}$	
Constant Amplitude		
Fatigue Threshold Stress	$(\Delta F)_{TH} = 12 \text{ ksi}$	<i>From LRFD Design Table 6.6.1.2.5-3, Category C'</i>
Check	$\Delta f_{eff} < (\Delta F)_{TH}$ Therefore, detail does have an infinite fatigue life.	

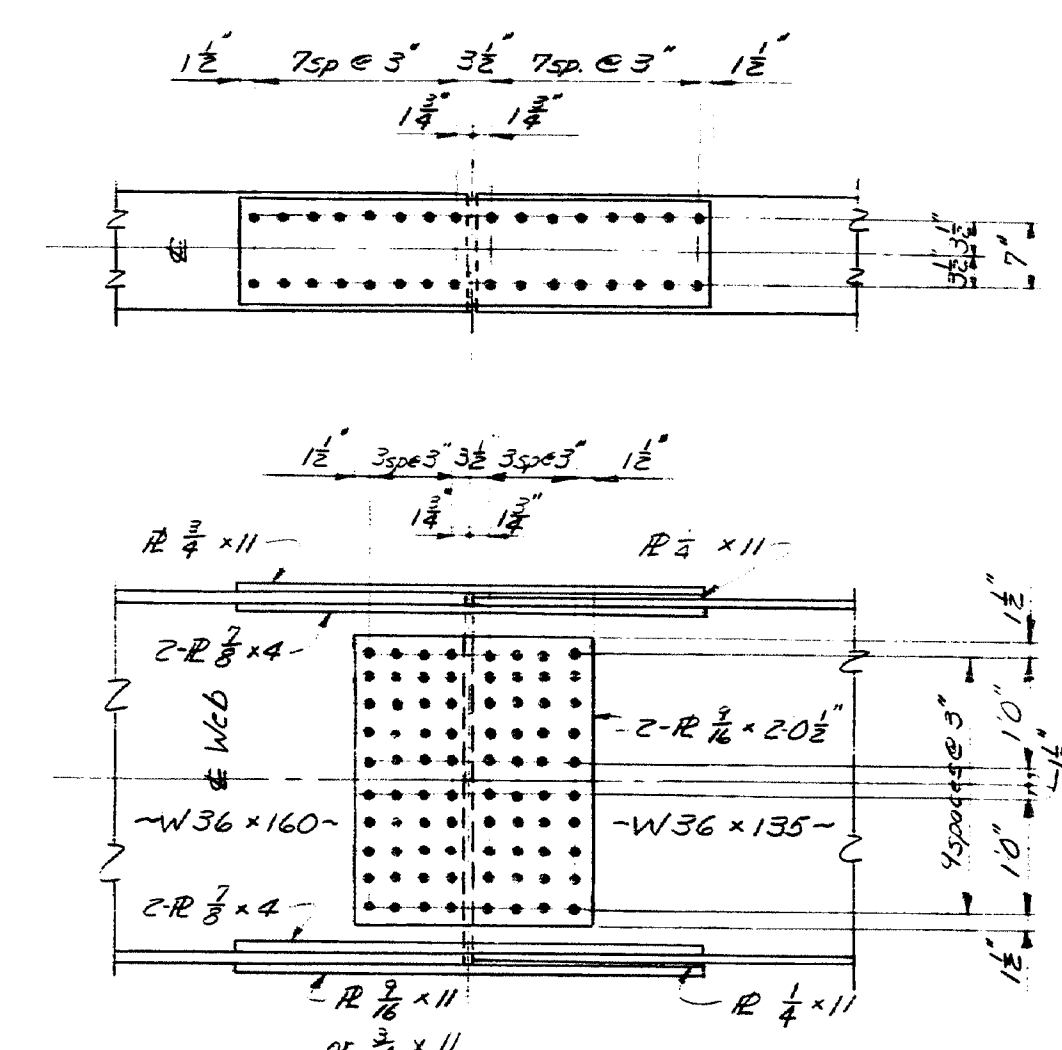
BRIDGE DRAWINGS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
MAINE	338-1(13)	20	47



* These two rows of diaphragms may be type 'E' if panel placement of the roadway slab is not used and continuous placement of the slab is used.

FRAMING PLAN



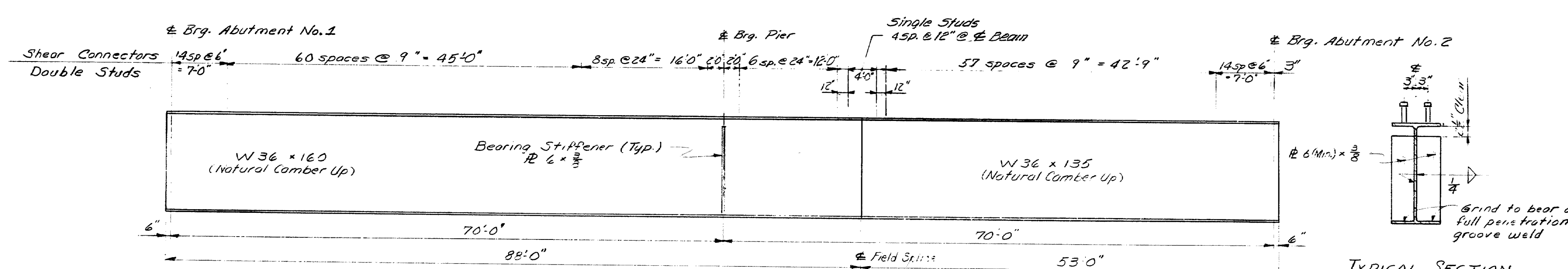
All bolts shall be $\frac{5}{8}$ " High Strength ASTM designation A325, Type 3. Holes shall be $\frac{1}{16}$ ".

STRUCTURAL STEEL NOTES

1. Bearing stiffeners shall be plumb after erection and dead loading of the structure.
2. Cross frame or diaphragm connection plates may be either plumb or normal to the top flange.
3. All steel shall meet A.S.T.M. designation A588, mill test for filler plate material will not be required.
4. Bolts shall meet ASTM designation A325 Type 3.
5. Structural steel shall not be painted and shall be prepared as specified in the supplemental specifications.

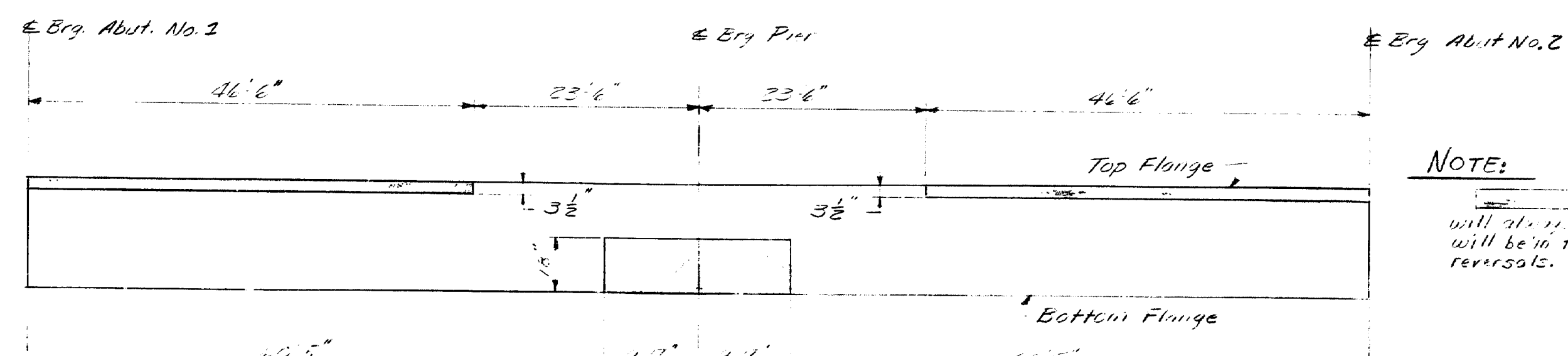
REFERENCES

Bearing Pedestals - BD 101-74 Sheet #12 and sheet #9 for modifications.
Shear Connectors - Armored Joint BD 104-73 sheet #13 & sheet #9
Diaphragms - BD 113-72 sheet #14



BEAM ELEVATION 1 THRU 6
329 Shear Connectors per beam (1,974 Total)

TYPICAL SECTION



STRESS LINE DIAGRAM
(BEAM ELEVATION)

NOTE:

Areas of the beam which will always be in compression. All other areas will be in tension, or areas which have stress reversals.

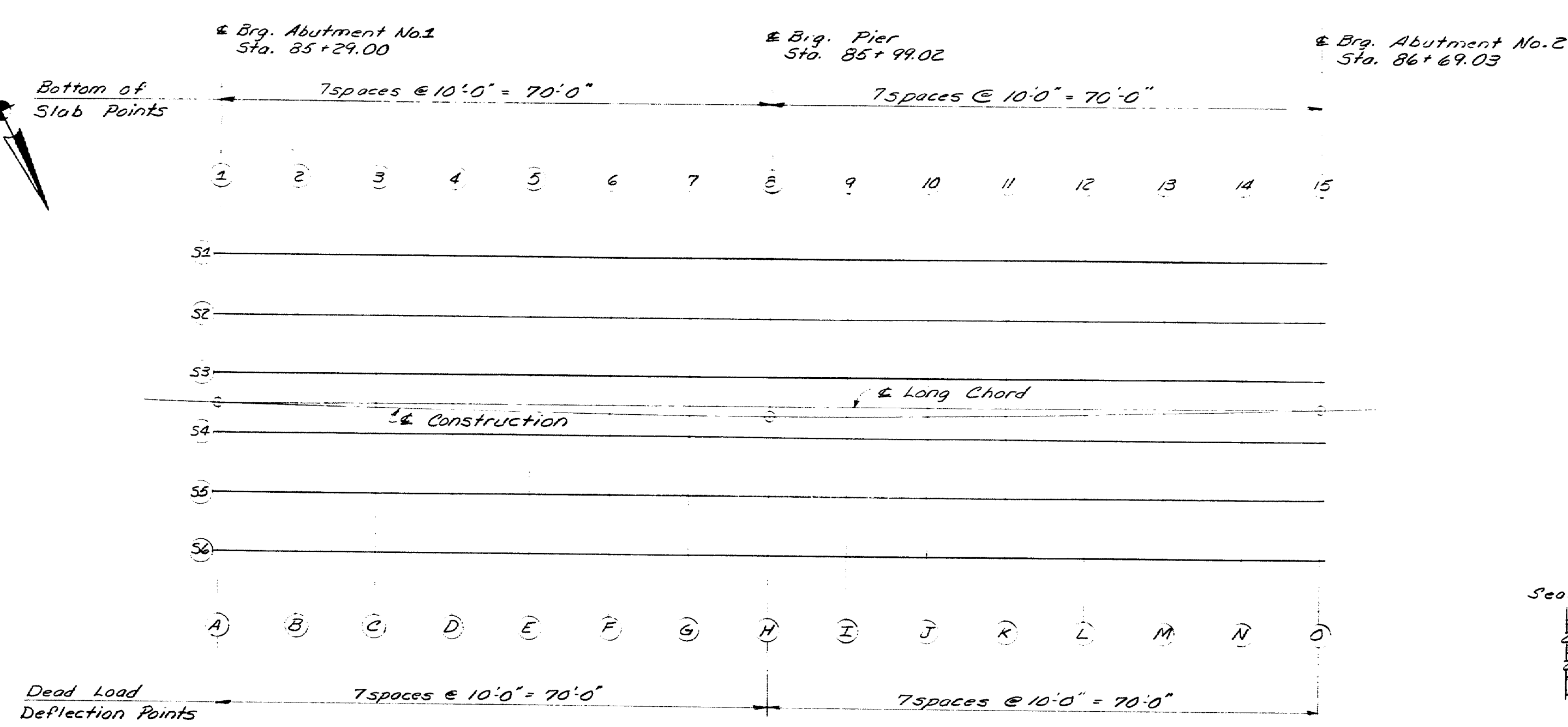
PROJECT DESIGN ENGINEER	DATE
ALL	7-15
DESIGN - CHECKED	BY
CHH	7-15-78
REVISIONS	FIELD CHANGES

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SIX MILE FALLS BRIDGE
OVER
KENDUSKEAG STREAM
IN THE CITY OF
BANGOR
PENOBSCOT COUNTY

STRUCTURAL STEEL DETAILS
SHEET 3 OF 15 AUGUSTA, MAINE Jan. 1978

169-80

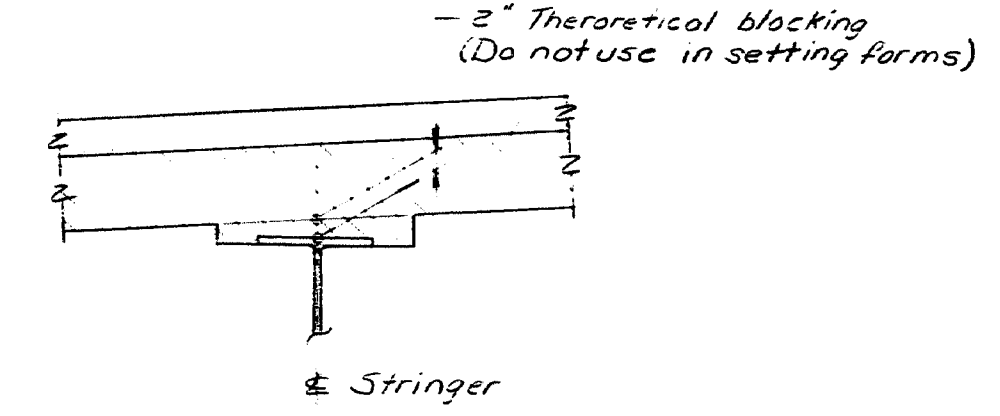


BLOCKING & DEFLECTION POINT LAYOUT

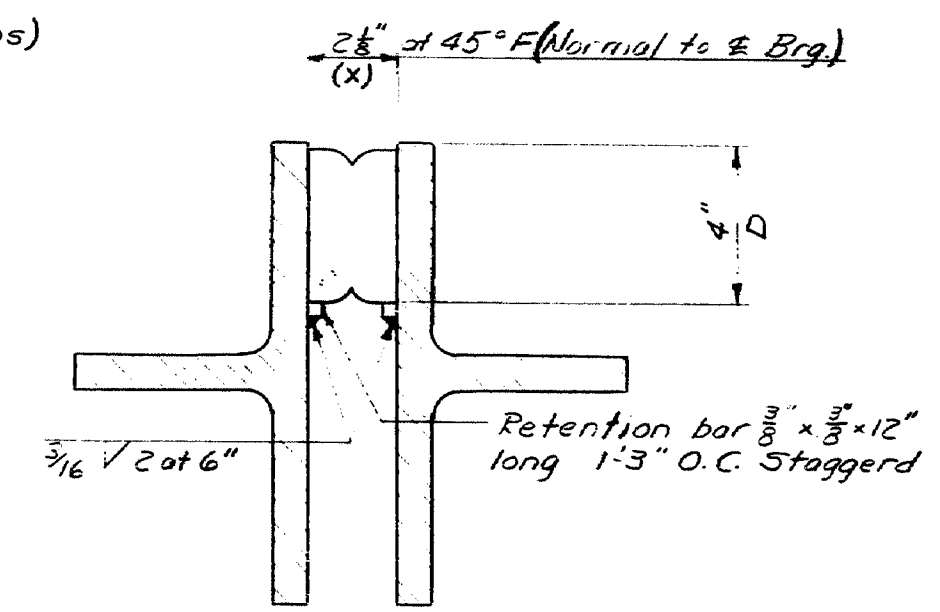
Bottom of slab elevations are adjusted to compensate for concrete (fluid & superimposed) dead load deflections and vertical profile; use in conformance with sub-section 502.10 (a).

BOTTOM OF SLAB ELEVATIONS															
Span	Abut. 1	+10'	+20'	+30'	+40'	+50'	+60'	Pier	+80'	+90'	+100'	+110'	+120'	+130'	Abut. 2
Points	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S-1	100.76	101.02	101.26	101.49	101.70	101.89	102.11	102.32	102.57	102.83	103.10	103.35	103.59	103.81	104.02
S-2	101.18	101.43	101.68	101.91	102.12	102.31	102.51	102.73	102.98	103.25	103.51	103.76	104.00	104.22	104.43
S-3	101.60	101.85	102.09	102.33	102.54	102.73	102.93	103.15	103.40	103.66	103.93	104.18	104.41	104.63	104.84
S-4	102.02	102.27	102.51	102.75	102.96	103.16	103.35	103.57	103.81	104.08	104.34	104.59	104.82	105.04	105.26
S-5	102.45	102.69	102.93	103.17	103.38	103.58	103.78	103.98	104.23	104.49	104.75	105.00	105.24	105.45	105.66
S-6	102.87	103.13	103.35	103.59	103.80	104.00	104.18	104.40	104.65	104.91	105.17	105.42	105.65	105.86	106.07

DEAD LOAD DEFLECTION POINTS (IN FEET)															
Span	Abut. 1	+10'	+20'	+30'	+40'	+50'	+60'	Pier	+80'	+90'	+100'	+110'	+120'	+130'	Abut. 2
Points	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Superimp.	0.000	0.007	0.013	0.015	0.013	0.009	0.003	0.000	0.003	0.009	0.014	0.015	0.013	0.008	0.000
Steel	0.000	0.006	0.011	0.012	0.011	0.007	0.002	0.000	0.002	0.006	0.010	0.012	0.010	0.006	0.000
Fluid	0.000	0.026	0.046	0.052	0.045	0.027	0.007	0.000	0.013	0.036	0.056	0.069	0.056	0.033	0.000



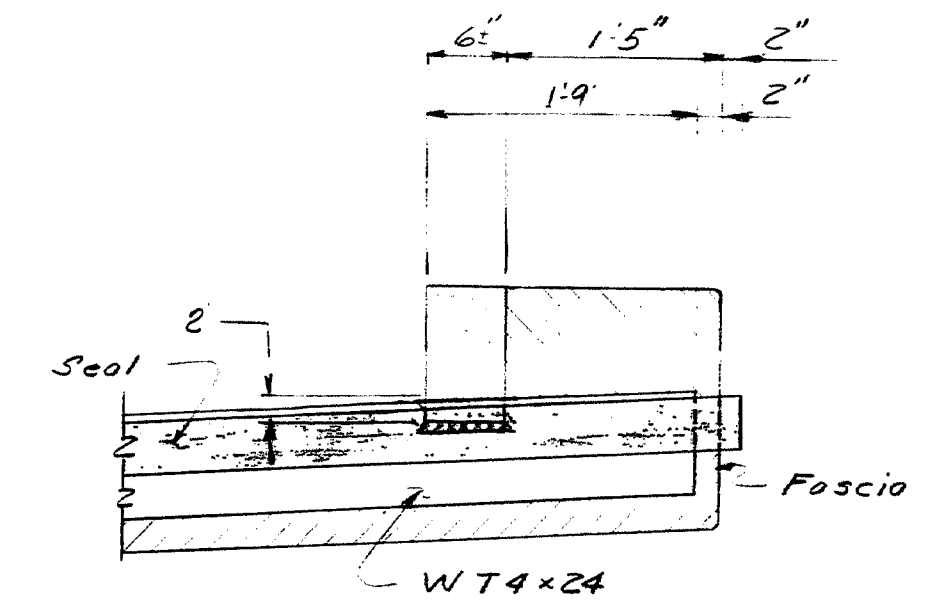
BLOCKING DETAIL



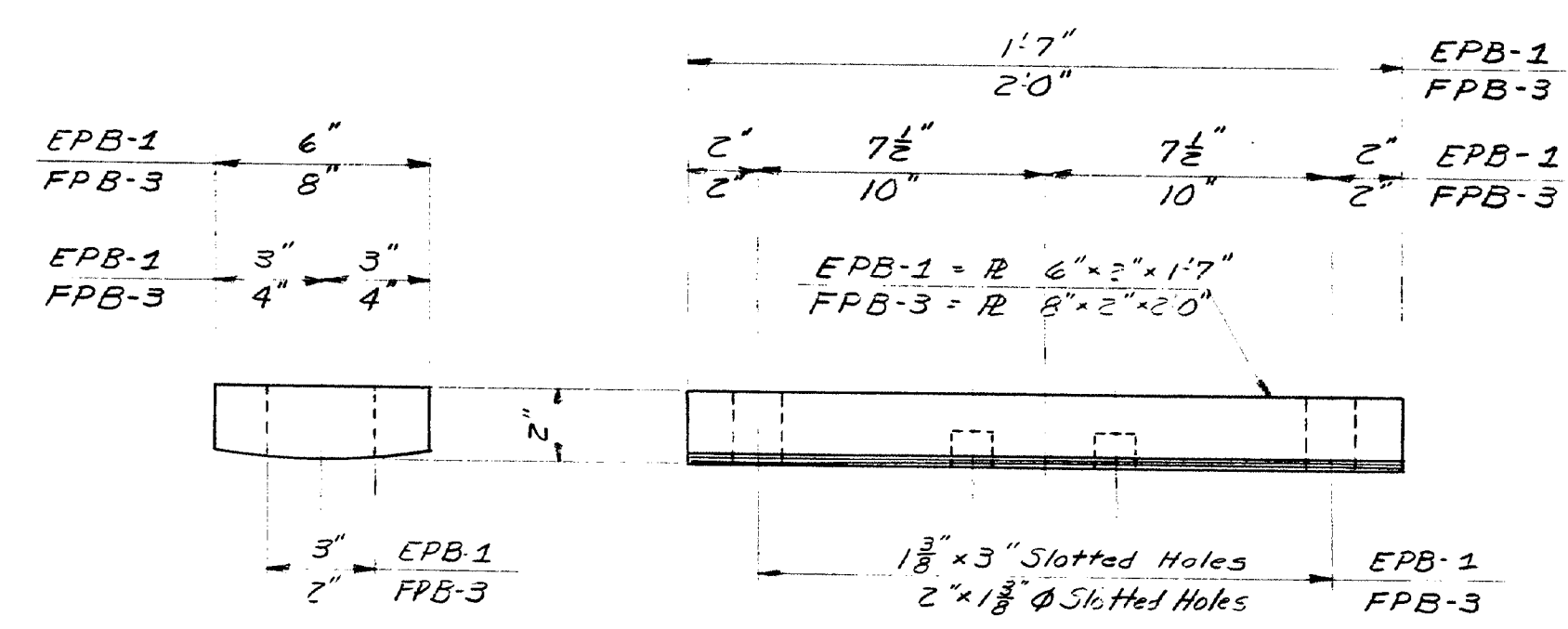
SEAL AT ABUTMENTS (Expansion)

NOTES

1. The seal furnished shall have a Movement Rating of 8" inch.
2. The joint dimensions "X" and "D" shown are for design only and are subjected to change due to difference in seals as supplied by various manufacturers. Do not use for setting of joint opening during construction. Set joint opening according to the joint opening shown on the approved "Armored Joint" shop detail drawings.
3. The seal characteristics shall be submitted to the engineer for approval, prior to the fabrication of the armored joint.
4. No movement due to dead loads (slab, curbs, and wearing surface), shall be taken into account when setting the armored joint.
5. The max. joint opening shall be 3 inches at -30°F measured parallel to & of construction.

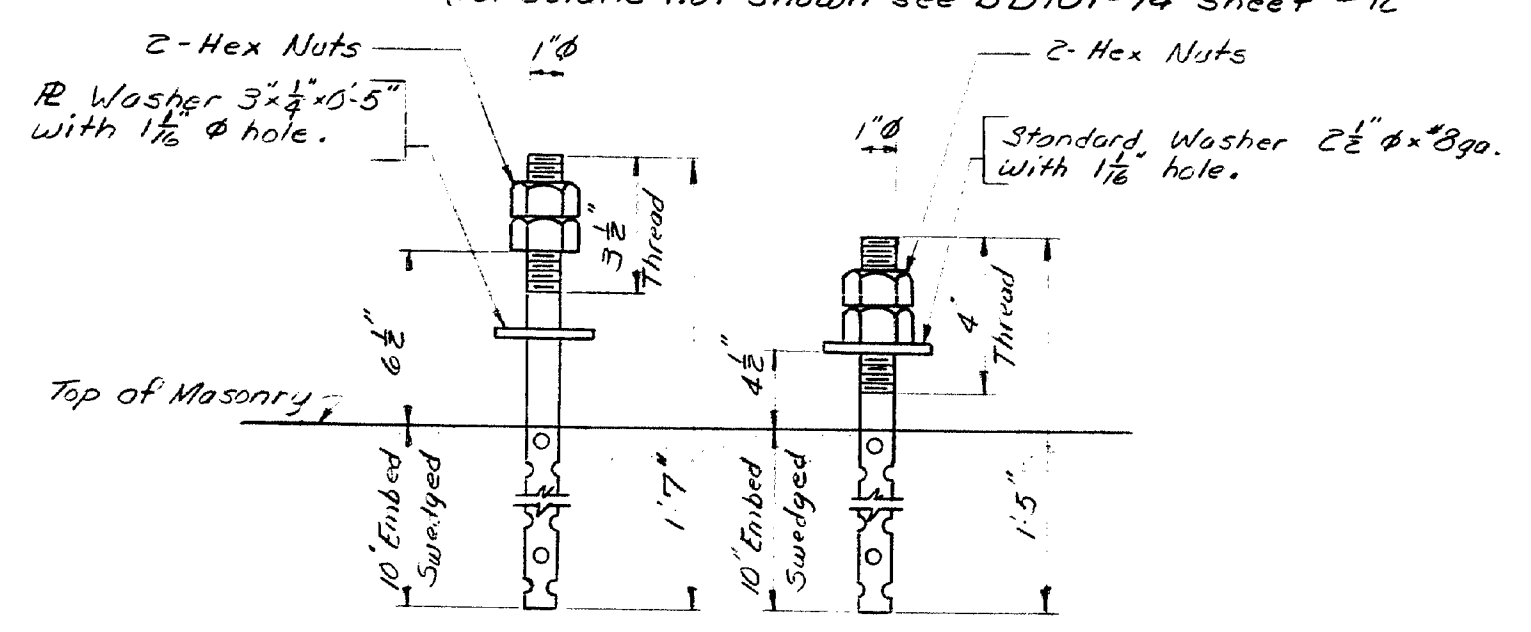


CURB DETAIL



ROCKER R FOR EPB-1 (MOD) & FPB-3 (MOD.)

(For details not shown see BD101-74 sheet #12)



ANCHOR BOLT DETAILS

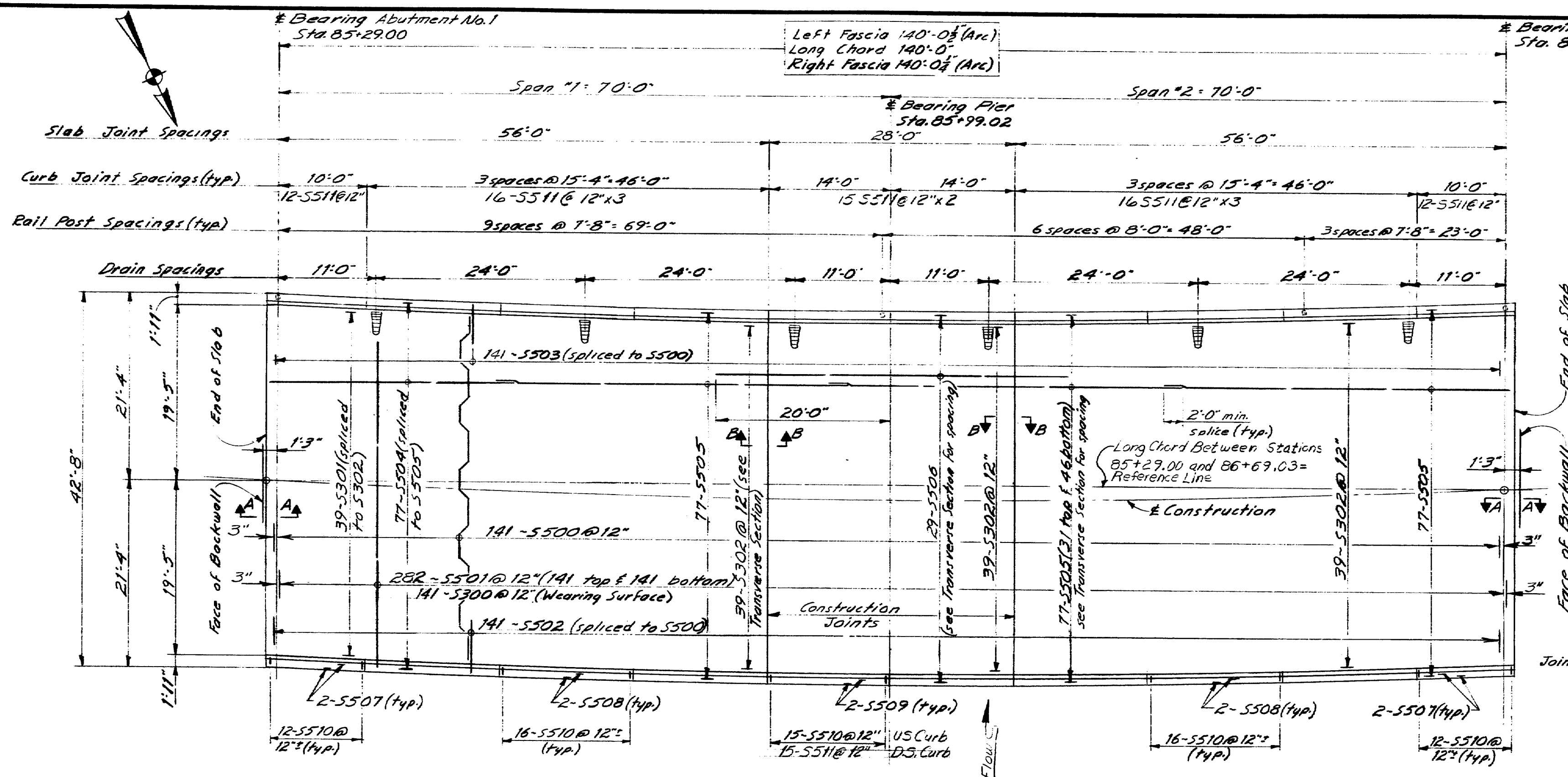
PROJECT DESIGN ENGINEER/USER	DATE
DESIGN - DETAILED	7-76
CHECKED	7-76
REVISIONS	
FIELD CHANGES	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

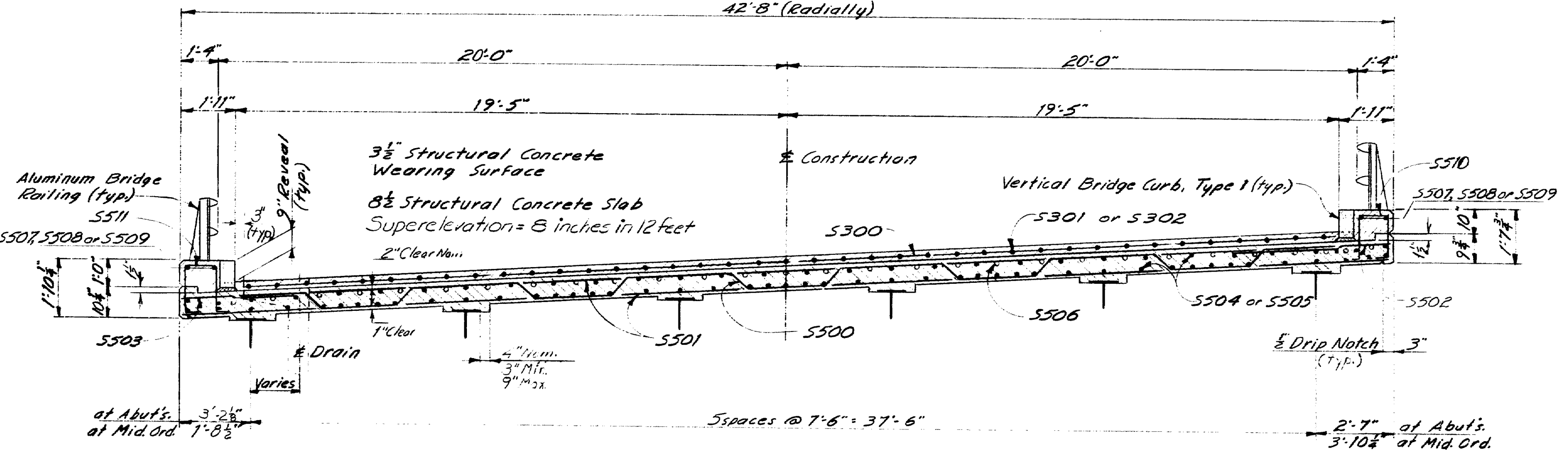
SIX MILE FALLS BRIDGE
OVER
KENDUSKEAG STREAM
IN THE CITY OF
BANGOR
PENOBSCOT COUNTY

BLOCKING LAYOUT
SHEET 2 OF 15 AUGUSTA, MAINE JUL 1976

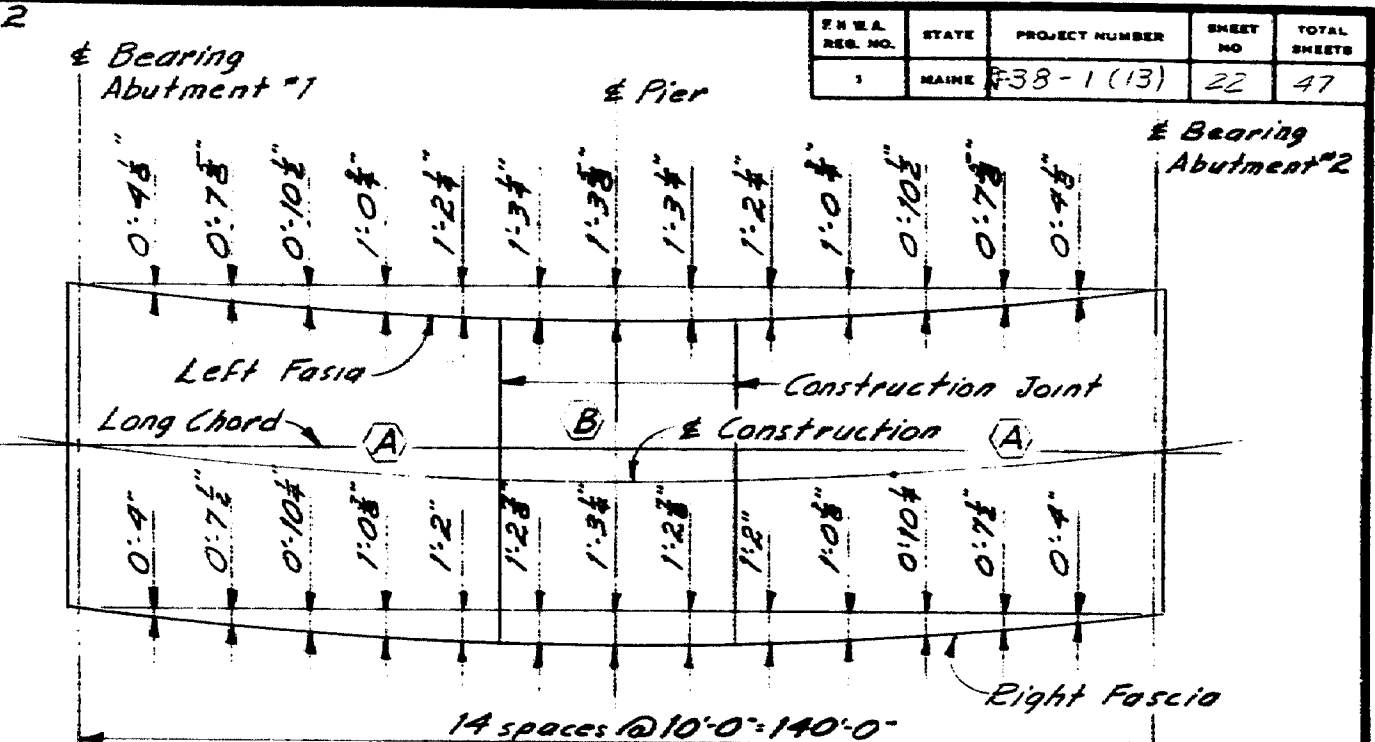
PROJECT DESIGN ENGINEER	DATE
DESIGN - DETAILED	7-75
CHECKED	7-76
REVISIONS	
FIELD CHANGES	
PLANS	



PLAN
NOTE: All dimensions are along Long Chord.

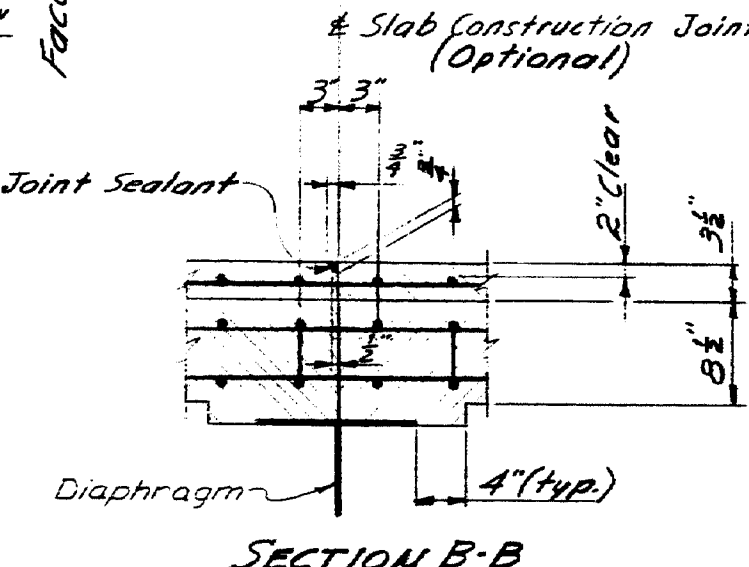


TRANSVERSE SECTION

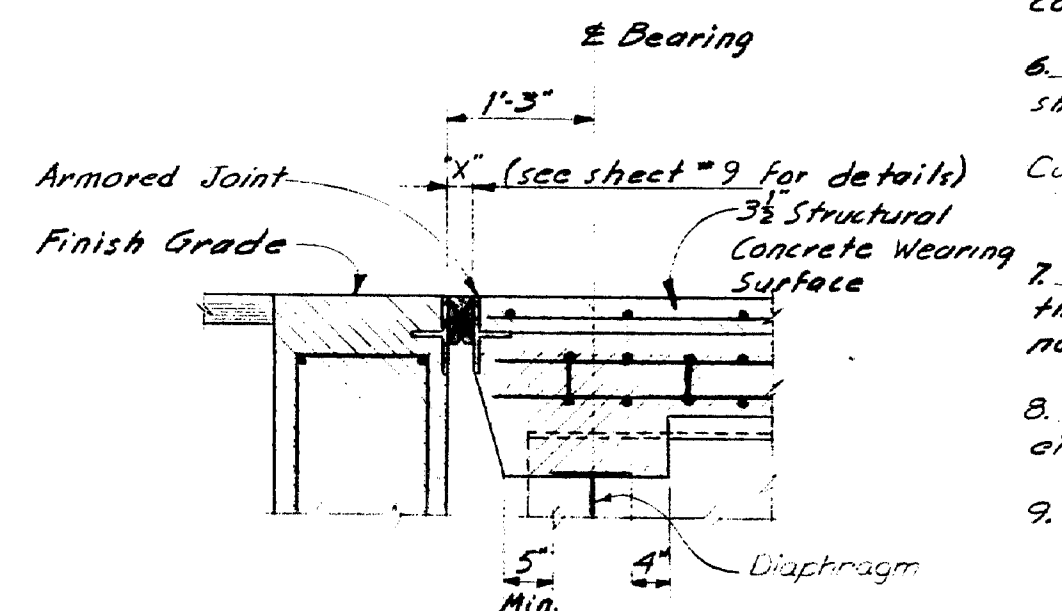


PLAN-PANEL PLACEMENT & FASCIA OFFSETS

NOTE:
Superstructure slab may be placed either continuously or by panels as follows:
CONTINUOUS PLACEMENT—The contractor's procedure of placement shall be approved by the Engineer. The concrete shall be kept plastic until placement of slab has been completed. The transverse slab joints and haunches shown shall be omitted. Approved set retarder admixtures shall be used when authorized by the Engineer. **PANEL PLACEMENT**—Panel A shall be placed before panel B. A minimum of 3 days shall elapse between placement of panels.



SECTION B-B



SECTION A-A

REFERENCES
For Armored Joint Details see Standard Detail Sheet BD 104-73 sheet #13 & sheet 9
For Aluminum Bridge Railing see Standard Detail Sheets BD 114-73 sheet #15
For Drain & Curb Details see Standard Detail Sheet BD 104-73, sheet 13
For Aluminum Railing Pay Limits Detail see sheet #6

- NOTES**
- Chamfer all exposed edges of concrete 1/2 inch unless otherwise indicated.
 - Form a 1/2 inch V-groove on the outside faces of each contraction joint in the curbs of each construction joint in the slab and at the joint between the curb and slab.
 - Break bond in contraction joints in the concrete curbs by a method approved by the Engineer. Do not break the bond in the construction joints in the superstructure slab.
 - Provide joints in the Vertical Bridge Curb Type I at each contraction joint in the concrete curb.
 - Reinforcing steel shall have a minimum cover of 2 inches unless otherwise indicated.
 - Protective Coating for Concrete Surfaces shall be applied to the following areas: Concrete wearing surface, top of concrete curbs, Right and Left fascias to 1/2 inch drip notch.
 - Mortar for bedding and for joints in the granite curb shall contain an approved non-shrink additive.
 - The superstructure slab may be placed either continuously or by panels.
 - All superstructure concrete shall be class "A".

STATE OF MAINE DEPARTMENT OF TRANSPORTATION
SIX MILE FALLS BRIDGE OVER KENDUSKEAG STREAM IN THE CITY OF BANGOR PENOBSCOT COUNTY
SUPERSTRUCTURE SHEET 12 OF 15 AUGUSTA, MAINE Jan. 1976

169-82

STRUCTURAL INVENTORY AND APPRAISAL SHEET

Structure Inventory and Appraisal Sheet (English Units)

Bridge Key:	2771	Agency ID:	2771	SR: 96.1	SD/FO: ND
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IDENTIFICATION

State 1: 23 Maine Struc Num 8: 2771
Facility Carried 7: ROUTE 15 Location 9: 400' W OF JCT RTE 221
Rte.(On/Under)5A: Route On Structure Rte. Signing Prefix 5B: 3 State Hwy
Level of Service 5C: 1 Mainline Rte. Number 5D: 00015
Directional Suffix 5E: 0 N/A (NBI) % Responsibility : 0
SHD District 2: 04 Eastern County Code 3: 019 Penobscot
Place Code 4: 19020 Bangor Mile Post 11: 67.470 mi
Feature Intersected 6: KENDUSKEAG STREAM
Latitude 16: 44d 51' 42" Longitude 17: 068d 49' 52"
Border Bridge Code 98: Not Applicable (P)
Border Bridge Number 99: n/a

INSPECTION

Frequency 91: 24 months Inspection Date 90: 1/2/2013 Next Inspection: 01/02/2015
FC Frequency 92A: NA FC Inspection Date 93A: NA Next FC Inspection: NA
UW Frequency 92B: NA UW Inspection Date 93B: NA Next UW Inspection: NA
SI Frequency 92C: NA SI Date 93C: NA Next SI: NA
Element Frequency: 24 months Element Inspection Date: 01/02/2013 Next Elem. Insp. Due:01/02/2015

STRUCTURE TYPE AND MATERIALS

Number of Approach Spans 46: 0 Number of Spans Main Unit 45: 2
Main Span Material/Design 43A/B:
4 Steel Continuous 02 Stringer/Girder
Deck Type 107: 1 Concrete-Cast-in-Place
Wearing Surface 108A: 3 Latex Concrete/Similar
Membrane 108B: 0 None
Deck Protection 108C: None

CLASSIFICATION

Defense Highway 100: 0 Not a STRAHNET hwy Parallel Structure 101: No || bridge exists
Direction of Traffic 102: 2 2-way traffic Temporary Structure 103: Not Applicable (P)
Highway System 104: 0 Not on NHS NBIS Length 112: Long Enough
Toll Facility 20: 3 On free road Functional Class 26: 16 Urban Minor Arterial
Defense Hwy 110: 0 Not a STRAHNET hwy Historical Significance 37: 4 Hist sign not determin
Owner 22: 01 State Highway Agency
Custodian 21: 01 State Highway Agency

AGE AND SERVICE

Year Built 27: 1979 Year Reconstructed 106: -4
Type of Service on 42A: 1 Highway
Type of Service under 42B: 5 Waterway
Lanes on 28A: 2 Lanes Under 28B: 0 Detour Length 19: 4.3 mi
ADT 29: 8,997 Truck ADT 109: 5 % Year of ADT 30: 2012

CONDITION

Deck 58: 7 Good Super 59: 7 Good Sub 60: 8 Very Good
Culvert 62: N N/A (NBI) Channel/Channel Protection 61: 5 Bank Prot Eroded

GEOMETRIC DATA

Length Max Span 48: 70.0 ft Structure Length 49: 146.0 ft
Curb/Sdwk Width L 50A: 0.6 ft Curb/Sidewalk Width R 50B: 0.6 ft
Width Curb to Curb 51: 39.0 ft Width Out to Out 52: 42.6 ft
Approach Roadway Width 32: 40.0 ft Median 33: 0 No median (w/ shoulders)
Deck Area: 6,219.4 sq. ft
Skew 34: 0.00 ° Structure Flared 35: 0 No flare
Vertical Clearance 10: 99.99 ft Horiz. Clearance 47: 39.00 ft
Minimum Vertical Clearance Over Bridge 53: 327.8 ft
Minimum Vertical Underclearance Reference 54A: N Feature not hwy or RR
Minimum Vertical Underclearance 54B: 0.0 ft
Minimum Lateral Underclearance Reference R 55A: N Feature not hwy or RR
Minimum Lateral Underclearance R 55: 327.8 ft
Minimum Lateral Underclearance L 56: 327.8 ft

LOAD RATING AND POSTING

Inventory Rating Method 65: 2 AS Allowable Stress: Operating Rating Method 63: 2 AS Allowable Stress
Inventory Rating 66: HS22.8 Operating Rating 64: HS39.4
Design Load 31: 4 M 18 (H 20) Posting 70: 5 At/Above Legal Loads
Posting status 41: A Open, no restriction

APPRAISAL

Bridge Rail 36A: 1 Meets Standards Approach Rail 36C: 1 Meets Standards
Transition 36B: 1 Meets Standards Approach Rail Ends 36D: 1 Meets Standards
Str. Evaluation 67: 7 Deck Geometry 68: 5 Above Tolerable
Underclearance, Vertical and Horizontal 69: N Not applicable (NBI)
Waterway Adequacy 71: 8 Equal Desirable Approach Alignment 72: 8 Equal Desirable Crit
Scour Critical 113: 8 Stable Above Footing

PROPOSED IMPROVEMENTS

Bridge Cost 94: NA Type of Work 75: Unknown (P)
Roadway Cost 95: Unknown Length of Improvement 76:
Total Cost 96: Unknown Future ADT 114: 12,596
Year of Cost Estimate 97: Unknown Year of Future ADT 115: 2032

NAVIGATION DATA

Navigation Control 38: 0 Permit Not Required
Vertical Clearance 39: 0.0 ft Horizontal Clearance 40: 0.0 ft
Pier Protection 111: Not Applicable (P) Lift Bridge Vertical Clearance 116: 0.0 ft

ELEMENT CONDITION STATE DATA

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
1	22/2	P Conc Deck/Rigid Ov	(SF)	6,220	0 %	0	100 %	6,220	0 %	0	0 %	0	0 %	0
1	106/2	Unpnt Stl Opn Girder	(LF)	876	83 %	727	12 %	105	4 %	35	1 %	9	0 %	0
1	210/2	R/Conc Pier Wall	(LF)	43	0 %	0	100 %	43	0 %	0	0 %	0	0 %	0
1	215/2	R/Conc Abutment	(LF)	85	95 %	81	5 %	4	0 %	0	0 %	0	0 %	0
1	218/2	Undefined Wall Elem.	(LF)	39	80 %	31	20 %	8	0 %	0	0 %	0	0 %	0
1	302/2	Compressn Joint Seal	(LF)	85	50 %	43	50 %	43	0 %	0	0 %	0	0 %	0

Structure Inventory and Appraisal Sheet (English Units)

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
1	311/2	Moveable Bearing	(EA)	18	50 %	9	50 %	9	0 %	0	0 %	0	0 %	0
1	330/2	Metal Rail Uncoated	(LF)	292	98 %	286	2 %	6	0 %	0	0 %	0	0 %	0
1	361/2	Scour Smart Flag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
1	385/2	Wear.Surf. - Rigid	(SF)	5,694	90 %	5,125	10 %	569	0 %	0	0 %	0	0 %	0
1	389/2	Reinfor conc dk/slab	(SF)	6,220	33 %	2,053	33 %	2,053	34 %	2,115	0 %	0	0 %	0

Str Unit	Elm/Env	Description	Element Notes
1	22/2	Concrete Deck - Protected w/ Rigid	< none >
1	106/2	Unpainted Steel Open Girder/Bear	< none >
1	210/2	Reinforced Conc Pier Wall	< none >
1	215/2	Reinforced Conc Abutment	< none >
1	218/2	Undefined Wall Elem (Incl. Wing-, H	< none >
1	302/2	Compression Joint Seal	
1	311/2	Moveable Bearing (roller, sliding, e	< none >
1	330/2	Metal Bridge Railing - Uncoated (Al	< none >
1	361/2	Scour	Exposed pier footings.
1	385/2	Wearing Surface - Rigid (Dummy E	
1	389/2	Reinforced Concrete Deck/Slab	<none>

BRIDGE NOTES

Two span, continuous, rolled weathering steel beams w composite, concrete deck.

PAST INSPECTION

Inspection Date: 01/02/2013

Type: 1 Regular NBI

Inspector: DTJHANN

Pontis User Key: DTJHANN - JAMIE

Scope:

NBI: ☒Other: ☐Element: ☒Underwater: ☐Fracture Critical: ☐

INSPECTION NOTES

Structure is in overall Good condition.
Isolated areas of deterioration at girder ends and under leaking joints.

Wearing surface:

Concrete wearing surface could not be chained do to freezing deck temperatures.

Salted roadway reveals patterned transverse cracking every 5'+/-.

Deck:

Bottom of the deck is in good condition with the exception of the end haunches under the joints, which have extensive spalled concrete.

The down stream NW'ly corner has an isolated area of moderate-heavy deterioration.

Structure Inventory and Appraisal Sheet (English Units)

PAST INSPECTION

Inspection Date: 06/24/2010

Type: 1 Regular NBI

Inspector: DTPVERR

Pontis User Key: DTPVERR - PAUL

Scope:

NBI: ☒ Other: ☐ Element: ☒
Underwater: ☐ Fracture Critical: ☐

INSPECTION NOTES

CHANNEL: Abut riprap projects too far constricting channel. Pier distribution slab exten'ly exp'd inc : > 2 ft upstr to barely cov'd at downstr end. Refer to prev reports inc 2002 for detailed descrip.

SUBSTRUCTURE:

Abutments: Defects gen'ly <= v minor.

Pier: Scour - see CHAN. Conc defects gen'ly <= v minor.

SUPERSTRUCTURE: Defects gen'ly <= v minor. Patina unstable near abut's where low beam has <= minor section loss.

DECK:

At Bottom: Little sign of deter except at extr ends where bulkhead spalling + over pier where transverse crack emanating effl.

Remainder: Defects gen'ly <= v minor.

PAST INSPECTION

Inspection Date: 11/10/2008

Type: 1 Regular NBI

Inspector: DTPVERR

Pontis User Key: DTPVERR - PAUL

Scope:

NBI: ☒ Other: ☐ Element: ☒
Underwater: ☐ Fracture Critical: ☐

INSPECTION NOTES

CHANNEL: Refer to prev reports inc 2002 for detailed descrip. Scour prev'ly noted. Unable to wade 2008 due to water depth.

SUBSTRUCTURE:

Abutments: Defects gen'ly <= v minor.

Pier: Scour - see CHAN. Conc defects gen'ly <= v minor.

SUPERSTRUCTURE: Defects gen'ly <= v minor. Patina unstable near abut's.

DECK:

At Bottom: Little sign of deter except at extr ends where bulkhead spalling.

Remainder: Defects gen'ly <= v minor.

Structure Inventory and Appraisal Sheet (English Units)

PAST INSPECTION

Inspection Date: 01/03/2007

Type: 1 Regular NBI

Inspector: DT2HARR

Pontis User Key: DT2HARR - SCOT

Scope:

NBI: ☒ Other: ☐ Element: ☒
Underwater: ☐ Fracture Critical: ☐

INSPECTION NOTES

Structure is in overall good condition with minor deterioration of main elements. Recommend monitoring of scouring pier footing and repair of concrete deck at underneath joint armor areas.

PAST INSPECTION

Inspection Date: 11/29/2004

Type: 1 Regular NBI

Inspector: -1

Pontis User Key: PWV

Scope:

NBI: ☒ Other: ☐ Element: ☒
Underwater: ☐ Fracture Critical: ☐

INSPECTION NOTES

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INSPECTOR WORK CANDIDATES

Work Candidate ID	Action	Object	Agency Status	Agency Priority	Assigned to a Project	Rec. Date
A-DOT001-0D2E4A34-00000034	Min Repair	P Conc Deck/Rigid Ov	Approved	Medium	No	1/2/2013
A-DOT001-10AB1264-00000015	Part Paint	Unpnt Stl Opn Girder	Approved	Medium	No	1/2/2013