TENNESSEE BRIDGE INSPECTION PROGRAM
SUMMARY OF EVALUATION

REV. 03-05-2003

BRIDGE ID NO: 75I00240041 LOCATION NO: 75 - 01044 - 0.48

(6A) CROSSING: EPPS MILL RD / I24

(505) METHOD OF ANALYSIS: LOAD RESISTANCE FACTOR METHOD - RF

(548) RATING BASED ON: AASHTOWARE BRIDGE RATING (4.5" ASPHALT)

LOAD RATINGS IN TONS

INVENTORY (503)	H	19	(518B) HS/HL93	21
OPERATING (504)	H	25	(519) HS/HL93	27
REQ. POSTING:		40		40

(549) EVALUATOR: SJR

(522) EVAL. DATE: 7/14/2022

LAST UPDATED BY: RIETHER

(29) ADT: 3,334 (30) ADT YR: 2021

(100) STRAHNET ROUTE: NO

(19) DETOUR LENGTH: 16 KM

(520) VC OVER RDWY: 99.99 METERS

CONDITION RATINGS

(58) DECK RATING:	6
(59) SUPERSTRUCTURE RATING:	6
(60) SUBSTRUCTURE RATING:	7
(61) CHANNEL PROTECTION:	N
(62) CULVERT RATING:	N
(113A) NBIS SCOUR CODE:	N
(113B) TDOT SCOUR CODE:	

APPRAISAL RATINGS

(67) STRUCTURAL EVALUATION:	5
(68) DECK GEOMETRY:	4
(69) UNDER CLEARANCE:	5
(70) BRIDGE POSTING:	5
(71) WATERWAY ADEQUACY:	N
(72) APPROACH RDWY ALIGNMENT:	8

CODE VALUES

N - NOT APPLICABLE
9 - EXCELLENT CONDITION
8 - VERY GOOD CONDITION
7 - GOOD CONDITION
6 - SATISFACTORY
5 - FAIR CONDITION
4 - POOR CONDITION
3 - SERIOUS CONDITION
2 - CRITICAL CONDITION
1 - FAILURE IS IMMINENT
0 - FAILED CONDITION

OTHER RATING ITEMS

(521) OVERALL CONDITION: F

(513) TEXTURE COAT RATING: N

(514) PAINT CONDITION RATING: 4 05 UK

(41) WEIGHT POSTING CODE: A

(36) TRAFFIC SAFETY FEATURES: 0 1 1 N

(525) REPAIR LIST NO: N

COMMENTS

SEE BARS FILE 75-024.DAT FOR AN ANALYSIS OF THE FIRST INTERIOR GIRDER. THERE IS A 9" CURB. AFTER LOOKING AT THE REPORT AND THE PICTURES, IT APPEARS TO BE APPROXIMATELY 5" BETWEEN THE TOP OF THE CURB AND THE ASPHALT. THEREFORE, USE 4" OF ASPHALT ON THE DECK. ASSUME THE EXTERIOR GIRDERS CARRY 85% OF THE CURB AND BRIDGERAIL WEIGHT. CHECKED THE GIRDER AND THE CONCRETE DECK. THE BRIDGE RATING IS CONTROLLED AT THE 1.40 POINT BY THE GIRDER. THE RATINGS REFLECT UPDATED CALCULATIONS PERFORMED ON 02/14/2012.

IN 2013 THE BRIDGE HAS SUSTAINED A COLLISION DAMAGE TO THE EXTERIOR STEEL GIRDER "D" AND CROSS FRAMES IN SPAN NO.2. REPAIRES HAVE BEEN COMPLETED IN 2013. (PJS)

(502) SUFF. RATING: 60.6

(528) STR. DEFICIENT: NO

(529) FUNC. OBSOLETE: NO

Weight Posting Analysis

Bridge ID: 75I00240041

November 10, 2022

Live Load	Rating Level	Rating Factor	Weight (Tons)	Safe Posting Load (Tons)
SU4	Legal	1.549	27	N/A
SU5	Legal	1.374	31	N/A
SU6	Legal	1.231	34.8	N/A
SU7	Legal	1.119	38.8	N/A
Type 3	Legal	1.706	25	N/A
NG 2 SU	Legal	1.978	21	N/A
NG 3 SU	Legal	1.579	28	N/A
NG 4 SU	Legal	1.482	31	N/A
NG 5 SU	Legal	1.466	29	N/A
Seed1	Legal	1.418	29.7	N/A
Type 3S2	Legal	1.342	36	N/A
Type 3-3	Legal	1.298	40	N/A
NG 4 MU	Legal	1.482	31	N/A
NG 6 MU	Legal	1.393	36	N/A
NG 7 MU	Legal	1.375	41	N/A
NG 8 MU	Legal	1.400	34	N/A
NG 9 MU	Legal	1.236	41	N/A
NG 10 MU	Legal	1.279	37	N/A
NG 12 MU	Legal	1.196	40.8	N/A
NG 14 MU	Legal	1.191	41	N/A
NG 15 MU	Legal	1.195	38.5	N/A
Lane-Type Legal Load	Legal	1.282	40	N/A
Annual Permit 1	Permit	0.791		40
Annual Permit 2	Permit	0.699		40
Ocean 1	Permit	1.034		N/A

Minimum Safe Posting Loads ----------	**Gross**	**40.0**	**Tons**
	Single Unit	**N/A**	**Tons**
	Multi-unit	**N/A**	**Tons**
Actual Weight Posting Values ----------	**Gross**	**40**	**Tons**
	Single Unit	**N/A**	**Tons**
	Multi-unit	**N/A**	**Tons**

Route Type---------- **Interstate**

Determined By: Sterling Riether

Approved By: APPROVED
By Tony Halwani at 4:20 pm, Nov 28, 2022

Tow Restriction Analysis

Bridge ID: 75I00240041

November 10, 2022

Live Load	Rating Level	Rating Factor	Weight (Tons)	Safe Posting Load (Tons)
tow1	Permit	1.172	42.5	N/A
tow2	Permit	1.203	41.5	N/A
tow3	Permit	1.195	42.5	N/A
tow4	Permit	0.716	82.5	49.0
tow5	Permit	0.769	82.5	55.3

Tow Truck Limit: N/A

Tow Truck Limit Including Towed Vehicle: 49 T

Weight Posting Analysis

Bridge ID: 75I00240041

November 10, 2022

Live Load	Rating Level	Rating Factor	Weight (Tons)	Safe Posting Load (Tons)
H 15-44	Inventory	1.264	15	N/A
H 15-44	Operating	1.639	15	N/A
H 15-44	Legal	1.702	14.5	N/A
SU4	Legal	1.549	27	N/A
SU5	Legal	1.374	31	N/A
SU6	Legal	1.231	34.75	N/A
SU7	Legal	1.119	38.75	N/A
Type 3	Legal	1.706	25	N/A
Type 3S2	Legal	1.342	27	N/A
Type 3-3	Legal	1.298	37	N/A
Lane-Type Legal Load	Legal	1.282	37	N/A
Annual Permit 1	Permit	0.791	40	40.0
Annual Permit 2	Permit	0.699		40.0
EV2	Permit	1.804	28.8	NA
EV3	Permit	1.200	43	N/A

EV Postings

	Calc Safe Axle	Highest Posting
Single	N/A	12
Tandem	N/A	24

Actual Weight Posting Values ----------	**Gross**	40	**Tons**
	Single Unit	N/A	**Tons**
	Multi Unit	N/A	**Tons**

EV Weight Posting Values ----------	**Single axle**	N/A	**Tons**
	Tandem	N/A	**Tons**
	Gross	N/A	**Tons**

Route Type---------- Interstate

Determined By: Sterling Riether

Approved By: APPROVED
By Tony Halwani at 4:21 pm, Nov 28, 2022

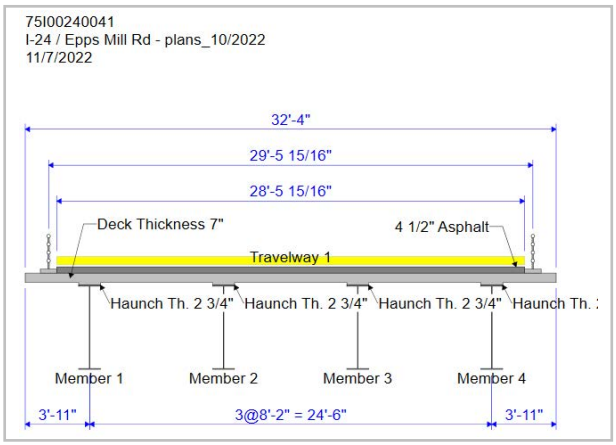
Load Rating Assumptions and QC / QA Checklist - Calculations

Bridge ID 75I00240041 Bridge Location 75-01044-00.48

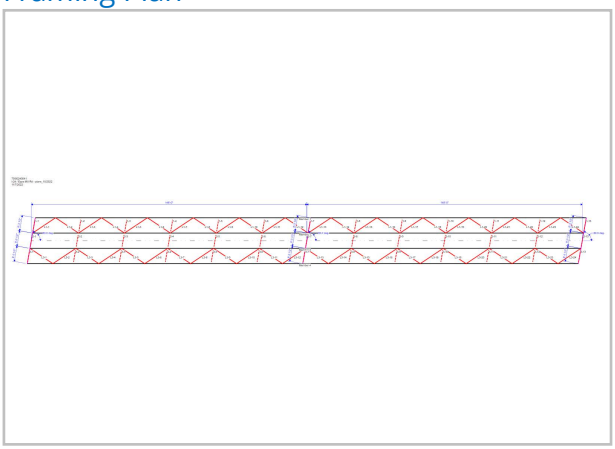
Load Rating Date 11/17/22 Inspection Date 8/26/22 Current ADTT Considered ☑ 66

Plans Set K-70-89 BRR-17-35

Cross Section



Framing Plan



	Sterling Riether	Evaluator	Luke Dalton	QC	Tony Halwani	QA
Dimensions match plans & field conditions		☑		☑		☑
Condition Assumed for Load rating	Satisfactory (6)			☑		☑
Deterioration/Damage Captured	N/A			☑		☑
Shear Considered		☑		☑		☑
Rails Distribution	Evenly			☑		☑
Asphalt Thickness (inches)	4.50			☑		☑
Asphalt Considered Field Verified	Yes			☑		☑
Distribution Factors Calc Method	AASHTOWare			☑		☑
Impact Factor	20%			☑		☑
AASHTO Trucks & TDOT Trucks Rated	Yes +Additional			☑		☑

Comments

Asphalt field verified by inspection crew.

Bridge Name: I-24 / Epps Mill Rd

NBI Structure ID: 75I00240041

Bridge ID: 75I00240041

Analyzed By: bridge_rating

Analyze Date: Thursday, November 10, 2022 14:33:17

Analysis Engine: AASHTO LRFR Engine Version 7.2.0.3001

Analysis Preference Setting: None

Report By: bridge_rating

Report Date: Thursday, November 10, 2022 14:38:14

Structure Definition Name: plans_10/2022

Member Name: Member 1

Member Alternative Name: Exterior

Load and Resistance Factor Rating Summary

Girder Summary

		Rating		Capacity		Location	
Live Load		Factor	Controls	(Ton)	Span	(ft)	Percent
Annual Permit 1	Permit	0.791	STRENGTH-II Steel Flexure Stress	65.29	2	88.8	60
Annual Permit 2	Permit	0.699	STRENGTH-II Steel Flexure Stress	57.63	2	88.8	60
EV2	Legal	1.479	STRENGTH-I Steel Flexure Stress	42.51	1	59.2	40
EV3	Legal	0.983	STRENGTH-I Steel Flexure Stress	42.29	1	59.2	40
H 15-44	Inventory	1.501	STRENGTH-I Steel Flexure Stress	22.52	1	59.2	40
H 15-44	Operating	1.946	STRENGTH-I Steel Flexure Stress	29.2	1	59.2	40
HL-93 (US)	Inventory	0.577	STRENGTH-I Steel Flexure Stress	20.78	1	59.2	40
HL-93 (US)	Operating	0.748	STRENGTH-I Steel Flexure Stress	26.93	1	59.2	40
HS 20-44	Inventory	0.904	STRENGTH-I Steel Flexure Stress	32.54	1	59.2	40
HS 20-44	Operating	1.172	STRENGTH-I Steel Flexure Stress	42.19	1	59.2	40
Lane-Type Legal Load	Legal	1.68	SERVICE-II Steel Flexure Stress	67.21	1	148	100
NG 10 MU	Legal	1.279	STRENGTH-I Steel Flexure Stress	47.32	2	88.8	60
NG 12 MU	Legal	1.196	STRENGTH-I Steel Flexure Stress	48.75	1	59.2	40
NG 14 MU	Legal	1.191	STRENGTH-I Steel Flexure Stress	48.83	1	59.2	40
NG 15 MU	Legal	1.195	STRENGTH-I Steel Flexure Stress	46.01	1	59.2	40
NG 2 SU	Legal	1.978	STRENGTH-I Steel Flexure Stress	41.53	1	59.2	40
NG 3 SU	Legal	1.579	STRENGTH-I Steel Flexure Stress	44.2	2	88.8	60
NG 4 MU	Legal	1.482	STRENGTH-I Steel Flexure Stress	45.93	1	59.2	40
NG 4 SU	Legal	1.482	STRENGTH-I Steel Flexure Stress	45.93	1	59.2	40
NG 5 SU	Legal	1.466	STRENGTH-I Steel Flexure Stress	42.52	1	59.2	40
NG 6 MU	Legal	1.393	STRENGTH-I Steel Flexure Stress	50.13	1	59.2	40
NG 7 MU	Legal	1.375	STRENGTH-I Steel Flexure Stress	56.37	2	88.8	60
NG 8 MU	Legal	1.4	STRENGTH-I Steel Flexure Stress	47.61	2	88.8	60
NG 9 MU	Legal	1.236	STRENGTH-I Steel Flexure Stress	50.67	2	88.8	60
ocean 1	Permit	1.034	STRENGTH-II Steel Flexure Stress	51.68	2	88.8	60
Overweight Permit	Permit	0.757	STRENGTH-II Steel Flexure Stress	96.56	2	88.8	60
Passenger Vehicle - 3 Tons	Legal	13.671	STRENGTH-I Steel Flexure Stress	41.01	1	59.2	40
School Bus - Small	Legal	8.124	STRENGTH-I Steel Flexure Stress	41.43	1	59.2	40
School Bus - Standard	Legal	2.904	STRENGTH-I Steel Flexure Stress	42.11	1	59.2	40
Seed1	Legal	1.418	STRENGTH-I Steel Flexure Stress	42.11	1	59.2	40
Seed2	Legal	1.651	STRENGTH-I Steel Flexure Stress	49.03	1	59.2	40
SU4	Legal	1.549	STRENGTH-I Steel Flexure Stress	41.83	1	59.2	40
SU5	Legal	1.374	STRENGTH-I Steel Flexure Stress	42.58	1	59.2	40
SU6	Legal	1.231	STRENGTH-I Steel Flexure Stress	42.78	1	59.2	40
SU7	Legal	1.119	STRENGTH-I Steel Flexure Stress	43.34	1	59.2	40
tow1	Permit	1.172	STRENGTH-II Steel Flexure Stress	49.79	2	88.8	60
tow2	Permit	1.203	STRENGTH-II Steel Flexure Stress	49.94	1	59.2	40
tow3	Permit	1.195	STRENGTH-II Steel Flexure Stress	50.78	1	59.2	40
tow4	Permit	0.716	STRENGTH-II Steel Flexure Stress	59.1	1	59.2	40
tow5	Permit	0.769	STRENGTH-II Steel Flexure Stress	63.4	1	59.2	40
Type 3	Legal	1.706	STRENGTH-I Steel Flexure Stress	42.64	1	59.2	40
Type 3-3	Legal	1.298	STRENGTH-I Steel Flexure Stress	51.91	1	59.2	40
Type 3S2	Legal	1.342	STRENGTH-I Steel Flexure Stress	48.3	1	59.2	40

Note:

"N/A" indicates not applicable

"" indicates not available**

Bridge Name: I-24 / Epps Mill Rd

NBI Structure ID: 75I00240041

Bridge ID: 75I00240041

Analyzed By: bridge_rating

Analyze Date: Thursday, November 1

Analysis Engine: AASHTO LRFR Engin

Analysis Preference Setting: None

Report By: bridge_rating

Report Date: Thursday, November 1(

Structure Definition Name: plans_10/

Member Name: Member 2

Member Alternative Name: Interior

Load and Resistance Factor Rating Su

Girder Summary

		Rating		Capacity		Location	
Live Load		Factor	Controls	(Ton)	Span	(ft)	Percent
Annual Permit 1	Permit	0.92	STRENGTH-II Steel Flexure Stress	75.9	2	88.8	60
Annual Permit 2	Permit	0.812	STRENGTH-II Steel Flexure Stress	67	2	88.8	60
EV2	Legal	1.767	STRENGTH-I Steel Flexure Stress	50.8	2	88.8	60
EV3	Legal	1.175	STRENGTH-I Steel Flexure Stress	50.52	2	88.8	60
H 15-44	Inventory	1.264	STRENGTH-I Steel Flexure Stress	18.96	1	148	100
H 15-44	Operating	1.639	STRENGTH-I Steel Flexure Stress	24.58	1	148	100
HL-93 (US)	Inventory	0.571	STRENGTH-I Steel Flexure Stress	20.55	1	148	100
HL-93 (US)	Operating	0.74	STRENGTH-I Steel Flexure Stress	26.64	1	148	100
HS 20-44	Inventory	0.948	STRENGTH-I Steel Flexure Stress	34.13	1	148	100
HS 20-44	Operating	1.229	STRENGTH-I Steel Flexure Stress	44.25	1	148	100
Lane-Type Legal Load	Legal	1.282	STRENGTH-I Steel Flexure Stress	51.29	1	148	100
NG 10 MU	Legal	1.527	STRENGTH-I Steel Flexure Stress	56.51	2	88.8	60
NG 12 MU	Legal	1.428	STRENGTH-I Steel Flexure Stress	58.22	2	88.8	60
NG 14 MU	Legal	1.423	STRENGTH-I Steel Flexure Stress	58.33	2	88.8	60
NG 15 MU	Legal	1.428	STRENGTH-I Steel Flexure Stress	54.97	2	88.8	60
NG 2 SU	Legal	2.363	STRENGTH-I Steel Flexure Stress	49.63	2	88.8	60
NG 3 SU	Legal	1.885	STRENGTH-I Steel Flexure Stress	52.79	2	88.8	60
NG 4 MU	Legal	1.77	STRENGTH-I Steel Flexure Stress	54.87	2	88.8	60
NG 4 SU	Legal	1.77	STRENGTH-I Steel Flexure Stress	54.87	2	88.8	60
NG 5 SU	Legal	1.752	STRENGTH-I Steel Flexure Stress	50.8	2	88.8	60
NG 6 MU	Legal	1.664	STRENGTH-I Steel Flexure Stress	59.89	2	88.8	60
NG 7 MU	Legal	1.642	STRENGTH-I Steel Flexure Stress	67.33	2	88.8	60
NG 8 MU	Legal	1.672	STRENGTH-I Steel Flexure Stress	56.86	2	88.8	60
NG 9 MU	Legal	1.476	STRENGTH-I Steel Flexure Stress	60.53	2	88.8	60
ocean 1	Permit	1.202	STRENGTH-II Steel Flexure Stress	60.1	2	88.8	60
Overweight Permit	Permit	1.088	STRENGTH-II Steel Shear	138.7	1	0	0
Passenger Vehicle - 3 Tons	Legal	16.335	STRENGTH-I Steel Flexure Stress	49.01	2	88.8	60
School Bus - Small	Legal	9.707	STRENGTH-I Steel Flexure Stress	49.51	2	88.8	60
School Bus - Standard	Legal	3.47	STRENGTH-I Steel Flexure Stress	50.31	2	88.8	60
Seed1	Legal	1.694	STRENGTH-I Steel Flexure Stress	50.3	2	88.8	60
Seed2	Legal	1.972	STRENGTH-I Steel Flexure Stress	58.57	2	88.8	60
SU4	Legal	1.851	STRENGTH-I Steel Flexure Stress	49.97	2	88.8	60
SU5	Legal	1.641	STRENGTH-I Steel Flexure Stress	50.87	2	88.8	60
SU6	Legal	1.471	STRENGTH-I Steel Flexure Stress	51.11	2	88.8	60
SU7	Legal	1.336	STRENGTH-I Steel Flexure Stress	51.78	2	88.8	60
tow1	Permit	1.362	STRENGTH-II Steel Flexure Stress	57.9	2	88.8	60
tow2	Permit	1.399	STRENGTH-II Steel Flexure Stress	58.08	2	88.8	60
tow3	Permit	1.389	STRENGTH-II Steel Flexure Stress	59.04	2	88.8	60
tow4	Permit	0.833	STRENGTH-II Steel Flexure Stress	68.71	2	88.8	60
tow5	Permit	0.893	STRENGTH-II Steel Flexure Stress	73.71	2	88.8	60
Type 3	Legal	2.038	STRENGTH-I Steel Flexure Stress	50.94	2	88.8	60
Type 3-3	Legal	1.55	STRENGTH-I Steel Flexure Stress	62	2	88.8	60
Type 3S2	Legal	1.602	STRENGTH-I Steel Flexure Stress	57.69	2	88.8	60

Note:

"N/A" indicates not applicable

"" indicates not available**

Bridge

Bridge Id	75I00240041
NBI Structure ID	75I00240041
Name	I-24 / Epps Mill Rd
Description	updated 10/26/22 by SJR
Traffic ADT	
Directional Percent	%
Traffic Design ADTT	
Recent ADTT	66

Appurtenances

Railing

Name	K-38-151	
Description		
Railing Material Type	Unknown	
Effective Wind Height	27.0000	in
Width	12.0000	in
Weight Per Length	0.328	kip/ft

Materials

Concrete Material

Name	Class A - f'c is 3 ksi	
Description	Standard 3 ksi Class A concrete	
Si Or Us Type	US Customary	
28 Day Compressive Strength	3.000	ksi
Initial Compressive Strength	2.500	ksi
Coefficient Of Thermal Expansion	0.0000060000	1/F
Density For DL	0.150	kcf
Density For Modulus Of Elasticity	0.145	kcf
Std Modulus Of Elasticity	3155.92	ksi
Poissons Ratio	0.200	
Modulus Of Rupture	0.410	ksi
Composition Type	Normal	
Shear Factor	1.000	
Std Initial Modulus Of Elasticity	2850.00	ksi
LRFD Modulus Of Elasticity	3155.92	ksi
LRFD Initial Modulus Of Elasticity	2850.00	ksi
Splitting Tensile Strength		ksi

Structural Steel Material

Name	ASTM A36	
Description	ASTM A 36	
Si Or Us Type	US Customary	
Yield strength	36.000	ksi
Tensile Strength	58.000	ksi
Toughness		ksi
Coefficient Of Thermal Expansion	0.0000065000	1/F
Density	0.4900	kcf

Modulus Of Elasticity	29000.00	ksi

Structural Steel Material

Name	ASTM A441 - <= 3/4"	
Description	ASTM A 441 - 3/4" thick and under	
Si Or Us Type	US Customary	
Yield strength	50.000	ksi
Tensile Strength	70.000	ksi
Toughness		ksi
Coefficient Of Thermal Expansion	0.0000065000	1/F
Density	0.4900	kcf
Modulus Of Elasticity	29000.00	ksi

Structural Steel Material

Name	ASTM A441 - > 3/4" to 1 1/2" incl	
Description	ASTM A 441 - over 3/4" to 1 1/2" thick, inclusive	
Si Or Us Type	US Customary	
Yield strength	46.000	ksi
Tensile Strength	67.000	ksi
Toughness		ksi
Coefficient Of Thermal Expansion	0.0000065000	1/F
Density	0.4900	kcf
Modulus Of Elasticity	29000.00	ksi

Reinforcing Steel Material

Name	Grade 40	
Description	40 ksi reinforcing steel	
Si Or Us Type	US Customary	
Yield Strength	40.000	ksi
Modulus Of Elasticity	29000.00	ksi
Reinforcing Bar Type	Plain	
Ultimate Strength	70.000	ksi

Beam Shapes

Steel Beam Shapes

Steel Angle

Angle Size1	4.0000	in
Angle Size2	4.0000	in
Angle Thickness	0.3750	in
Nominal Load	9.800	lb/ft
K		in
Area	2.860	in^2
Ixx	4.320	in^4
Yxx	1.1300	in
Iyy	4.320	in^4
Xyy	1.1300	in
Zztantheta		
Name	L 4x4x3/8	

Description	L 4x4x3/8 Imported from AISC Tables (2011)
Si or Us type	US Customary

Steel Tee

Superstructures Definitions

Girder System Structure Def

Name	plans_10/2022	
Dead Load 2 Distribution Type	Uniformly to All Girders	
Dead Load 1 Distribution Type	Tributary Area	
Modular Ratio Sustained Factor		
Deck Crack Control Parameter Z		kip/in
Girder Spacing Display Type	Perpendicular	
Frame Structure Simplified Definition Indicator	false	
LRFD - Override Truck Fraction		
LRFD - Lanes Available to Trucks		
LRFD - Override Truck Fraction Indicator	false	
Deck Exposure Factor		
Horizontal Curvature Indicator	false	
Curve Superstructure Alignment Type	Curved	
Distance from PC to First Support Line		ft
Curve Start Tangent Length		ft
Curve Radius		ft
Curve Direction Type	Left	
Curve End Tangent Length		ft
Curve Design Speed		mph
Curve Superelevation		%
Distance From Left-most Girder To Structure Def Ref Line		ft
Distance From Last Support Line to PT		ft
Modeling Type	Multi Girder System	
NBI Material Type	Steel Continuous	
NBI Construction Type	Stringer/Multi Beam	
Super Structure Service Life		
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	20.0	%
LRFD Fatigue Impact Factor	15.0	%
Impact Factor Type	Standard - AASHTO	
Average Humidity		%
Consider Effective Slab Thickness For Rating Indicator	true	
Consider Effective Slab Thickness For Design Indicator	true	
Consider Wearing Surface For Rating Indicator	true	
Consider Wearing Surface For Design Indicator	true	
LFD Model Non-Composite Regions As Non-Composite Indicator	false	
LRFD Model Non-Composite Regions As Non-Composite Indicator	false	
LRFR Model Non-Composite Regions As Non-Composite Indicator	false	
Description		
System Of Units	US Customary	
Default Analysis Method	LFD	
Number Of Girders	4	
Number Of Spans	2	

Span Lengths

Span	Length (ft)
1	148.0000
2	148.0000

Load Case Description

Name	Description	Stage Name	Load Type	Load Application Time (Days)
DC1		Non-composite (Stage 1)	D,DC	
DC2		Composite (long term) (Stage 2)	D,DC	
DW		Composite (long term) (Stage 2)	D,DW	

Bracing Spec Check Selection

Structure Framing Plan Details

Support Skew

Support Number	Frame Connections Indicator	Skew (Degrees)
1	FALSE	10.0000
2	FALSE	10.0000
3	FALSE	10.0000

Girder Spacings

Girder Bay Number	Start Spacing (ft)	End Spacing (ft)
1	8.17	8.17
2	8.17	8.17
3	8.17	8.17

Diaphragm Locations

Bay Number: 1

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing Weight (kip)
0.00	1	0.00	0.00

0.00	5	0.00	24.67	0.4500
148.00	1	148.00	0.00	
148.00	5	148.00	24.67	0.4500
296.00	1	296.00	0.00	

Bay Number: 2

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
0.00	1	0.00	0.00	
0.00	5	0.00	24.67	0.4500
148.00	1	148.00	0.00	
148.00	5	148.00	24.67	0.4500
296.00	1	296.00	0.00	

Bay Number: 3

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
0.00	1	0.00	0.00	
0.00	5	0.00	24.67	0.4500
148.00	1	148.00	0.00	
148.00	5	148.00	24.67	0.4500
296.00	1	296.00	0.00	

Bottom Flange Lateral Bracing Location

Left Girder Start Distance	0.0000	ft
Right Girder Start Distance	0.0000	ft
Lateral Bracing Pattern Type	Alternating /\	
Left Girder Bracing Length		ft
Right Girder Bracing Length	12.3333	ft
Number of Braces	24	

Bottom Flange Lateral Bracing Location

Left Girder Start Distance	0.0000	ft
Right Girder Start Distance	0.0000	ft
Lateral Bracing Pattern Type	Alternating \/	
Left Girder Bracing Length	12.3333	ft
Right Girder Bracing Length		ft
Number of Braces	24	

Structure Typical Section

Concrete Deck

Total Deck Thickness	7.0000	in
Distance	0.00	ft
Length	296.00	ft
Width Left Start	-16.17	ft
Width Right Start	16.17	ft
Width Left End	-16.17	ft
Width Right End	16.17	ft
Straight Edge Indicator	false	
Continuous Over More Than Two Spans Indicator	false	
Deck Concrete Name	Class A - f'c is 3 ksi	
Deck Type	Concrete	

Steel Railings

Name	Face Left Indicator	Offset At Start (ft)	Offset At End (ft)	Load Case Name	Measured To Front Face Indicator	Offset Reference Type
K-38-151	FALSE	1.92	1.92	DC2	TRUE	Left Edge
K-38-151	TRUE	1.92	1.92	DC2	TRUE	Right Edge

Travelway

Distance (ft)	Length (ft)	Number Of Lanes	Offset Left Start (ft)	Offset Left End (ft)	Offset Right Start (ft)	Offset Right End (ft)
0.00	296.00	2	-14.25	-14.25	14.25	14.25

Wearing Surface

Wearing Surface Material Name	Asphalt
Wearing Surface Description	
Wearing Surface Density	144.000pcf
Wearing Surface Thickness	4.5000 in
Wearing Surface Load Case Name	DW

Uniform Temperature Load

Gradient Temperature Load

Wind Load

Transverse Stiffiners - Plate

Width	4.0000	in

Thickness	0.3750	in
Number of Sides	1	
Name	INT	
Web Weld Name		
Bot Flange Weld Name	5/16" WELD	
Top Flange Weld Name		
Steel Name	ASTM A441 - <= 3/4"	

Transverse Stiffiners - Plate

Width	7.0000	in
Thickness	0.6250	in
Number of Sides	2	
Name	ENDS	
Web Weld Name		
Bot Flange Weld Name		
Top Flange Weld Name		
Steel Name	ASTM A36	

Transverse Stiffiners - Plate

Width	4.0000	in
Thickness	0.3750	in
Number of Sides	2	
Name	INTERMEDIATE DIAPHRAGM	
Web Weld Name		
Bot Flange Weld Name	5/16" WELD	
Top Flange Weld Name		
Steel Name	ASTM A36	

Bearing Stiffiners - Plate

Width	7.0000	in
Top Outside Clip Length		in
Bottom Outside Clip Length		in
Thickness	0.6250	in
Number of Sides		
Name	END	
Web Weld Name		
Bot Flange Weld Name		
Top Flange Weld Name		
Steel Name	ASTM A36	

Bearing Stiffiners - Plate

Width	7.5000	in
Top Outside Clip Length		in
Bottom Outside Clip Length		in
Thickness	1.0000	in
Number of Sides		
Name	SUPPORT DIAPHRAGM	
Web Weld Name		
Bot Flange Weld Name		
Top Flange Weld Name		

Steel Name	ASTM A441 - > 3/4" to 1 1/2" incl

Shear Connector

Channel Name	STUD
Connector Type	Stud
Stud Diameter	0.8750in
Stud Height	4.0000in
Channel Length	in
LFD Fatigue Strength	kip
LRFD Steel Min Tensile Strength	ksi
LRFD Nominal Shear Resistance	kip
LRFD Fatigue Resistance	kip
Channel Name	

Girder Member

Pedestrain Live Load Force		lb/ft
Name	Member 1	
Description	Girder member generated using the design wizard	
Last Modified Timestamp	Thursday, December 27, 2018	
Creation Timestamp	Wednesday, May 20, 2015	
Member Alternative Name-Current	Exterior	
Member Alternative Name-Existing	Exterior	

Member Alt - Steel Plate I Beam - Schd

Steel Splice

Distance	106.00	ft
Splice Gap	0.0000	in
Filler Plates Extended Indicator	false	
Lrfr Condition Factor Type	Good or Satisfactory	
Lrfr Field Measured Section Properties Indicator	false	
Top Outer D1	2.0000	in
Top Outer D2	2.0000	in
Top Outer N1	7	
Top Outer P1	3.0000	in
Top Outer D3	2.0000	in
Top Outer N2	0	
Top Outer G1	0.0000	in
Top Outer E1	2.0000	in
Top Inner E2	2.0000	in
Top Inner E3	2.0000	in
Top Inner E4	5.0000	in
Top Outer Plate Thickness	0.5000	in
Top Inner Plate Thickness	0.5000	in
Bottom Outer D1	2.0000	in
Bottom Outer D2	2.0000	in
Bottom Outer N1	7	
Bottom Outer P1	3.0000	in
Bottom Outer D3	2.0000	in
Bottom Outer N2	0	
Bottom Outer G1	0.0000	in

Bottom Outer E1	2.0000	in
Bottom Inner E2	2.0000	in
Bottom Inner E3	2.0000	in
Bottom Inner E4	5.0000	in
Bottom Outer Plate Thickness	0.5000	in
Bottom Inner Plate Thickness	0.5000	in
Web Verticle Edge Distance	1.5000	in
Web Horizontal Edge Distance	2.0000	in
Web Plate Thickness	0.3750	in
Web D1	3.0000	in
Web D2	3.0000	in
Web N1	18	
Web P1	3.0000	in
Web N2	1	
Web G2	3.0000	in
Web W2	4.0000	in
Bottom Splice Plate Unbraced Length		in
Top Outer Edge Type	Sheared	
Top Inner Edge Type	Sheared	
Bottom Outer Edge Type	Sheared	
Bottom Inner Edge Type	Sheared	
Top Bolt Definition Name	7/8" bolts	
Top Outer Plate Steel Name	ASTM A36	
Top Inner Plate Steel Name	ASTM A36	
Bottom Outer Plate Steel Name	ASTM A36	
Bottom Inner Plate Steel Name	ASTM A36	
Web Bolt Definition Name	7/8" bolts	

Steel Splice

Distance	190.00	ft
Splice Gap	0.0000	in
Filler Plates Extended Indicator	false	
Lrfr Condition Factor Type	Good or Satisfactory	
Lrfr Field Measured Section Properties Indicator	false	
Top Outer D1	2.0000	in
Top Outer D2	2.0000	in
Top Outer N1	7	
Top Outer P1	3.0000	in
Top Outer D3	2.0000	in
Top Outer N2	0	
Top Outer G1	0.0000	in
Top Outer E1	2.0000	in
Top Inner E2	2.0000	in
Top Inner E3	2.0000	in
Top Inner E4	5.0000	in
Top Outer Plate Thickness	0.5000	in
Top Inner Plate Thickness	0.5000	in
Bottom Outer D1	2.0000	in
Bottom Outer D2	2.0000	in
Bottom Outer N1	7	
Bottom Outer P1	3.0000	in
Bottom Outer D3	2.0000	in
Bottom Outer N2	0	
Bottom Outer G1	0.0000	in

Bottom Outer E1	2.0000	in
Bottom Inner E2	2.0000	in
Bottom Inner E3	2.0000	in
Bottom Inner E4	5.0000	in
Bottom Outer Plate Thickness	0.5000	in
Bottom Inner Plate Thickness	0.5000	in
Web Verticle Edge Distance	1.5000	in
Web Horizontal Edge Distance	2.0000	in
Web Plate Thickness	0.3750	in
Web D1	3.0000	in
Web D2	3.0000	in
Web N1	18	
Web P1	3.0000	in
Web N2	1	
Web G2	3.0000	in
Web W2	4.0000	in
Bottom Splice Plate Unbraced Length		in
Top Outer Edge Type	Sheared	
Top Inner Edge Type	Sheared	
Bottom Outer Edge Type	Sheared	
Bottom Inner Edge Type	Sheared	
Top Bolt Definition Name	7/8" bolts	
Top Outer Plate Steel Name	ASTM A36	
Top Inner Plate Steel Name	ASTM A36	
Bottom Outer Plate Steel Name	ASTM A36	
Bottom Inner Plate Steel Name	ASTM A36	
Web Bolt Definition Name	7/8" bolts	

Steel Top Flange Plate Ranges

Distance (ft)	Length (ft)	Thickness (in)	Steel Name	Begin Width (in)	End Width (in)	Weld Name	Weld At Right Name
0.00	106.00	1.0000	ASTM A36	16.0000	16.0000		
106.00	42.00	1.2500	ASTM A441 - > 3/4" to 1 1/2" incl	16.0000	16.0000		
0.00	42.00	1.2500	ASTM A441 - > 3/4" to 1 1/2" incl	16.0000	16.0000		
42.00	106.00	1.0000	ASTM A36	16.0000	16.0000		

Steel Web Plate Ranges

Distance (ft)	Length (ft)	Thickness (in)	Steel Name	Begin Depth (in)	End Depth (in)	Depth Variation Type	Weld At Right Name
0.00	106.00	0.3750	ASTM A36	60.0000	60.0000	None	
106.00	7.00	0.3750	ASTM A441 - > 3/4" to 1 1/2" incl	60.0000	60.0000	None	
113.00	35.00	0.3750	ASTM A441 - > 3/4" to 1 1/2" incl	60.0000	110.0000	Linear	

0.00	35.00	0.3750	ASTM A441 - > 3/4" to 1 1/2" incl	110.0000	60.0000	Linear
35.00	7.00	0.3750	ASTM A441 - > 3/4" to 1 1/2" incl	60.0000	60.0000	None
42.00	106.00	0.3750	ASTM A36	60.0000	60.0000	None

Steel Bottom Flange Plate Ranges

Distance (ft)	Length (ft)	Thickness (in)	Steel Name	Begin Width (in)	End Width (in)	Weld Name	Weld At Right Name
0.00	25.00	1.0000	ASTM A36	16.0000	16.0000		
25.00	61.00	1.3750	ASTM A36	16.0000	16.0000		
86.00	20.00	1.0000	ASTM A36	16.0000	16.0000		
106.00	42.00	1.2500	ASTM A441 - > 3/4" to 1 1/2" incl	16.0000	16.0000		
0.00	42.00	1.2500	ASTM A441 - > 3/4" to 1 1/2" incl	16.0000	16.0000		
42.00	20.00	1.0000	ASTM A36	16.0000	16.0000		
62.00	61.00	1.3750	ASTM A36	16.0000	16.0000		
123.00	25.00	1.0000	ASTM A36	16.0000	16.0000		

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class A - f'c is 3 ksi	0.00	7.0000	96.0060	84.0000	106.00	9.200	96.0060	84.0000	96.0060	84.0000
Class A - f'c is 3 ksi	106.00	7.0000	0.0000	0.0000	84.00	9.200	0.0000	0.0000	0.0000	0.0000
Class A - f'c is 3 ksi	190.00	7.0000	96.0060	84.0000	106.00	9.200	96.0060	84.0000	96.0060	84.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	296.00	5.00	5	Grade 40	2.4375	Top of Slab	5.00	5.00	
0.00	296.00	7.00	5	Grade 40	1.9375	Bottom of Slab	7.00	7.00	

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
STUD	0.00	20.00	3	30	8.0000
STUD	20.00	20.00	3	20	12.0000
STUD	40.00	27.00	3	18	18.0000
STUD	67.00	18.00	3	18	12.0000
STUD	85.00	18.67	3	28	8.0000
STUD	103.67	2.33	3	1	28.0000
STUD	190.00	2.33	3	1	28.0000
STUD	192.33	18.67	3	28	8.0000
STUD	211.00	18.00	3	18	12.0000
STUD	229.00	27.00	3	18	18.0000
STUD	256.00	20.00	3	20	12.0000
STUD	276.00	20.00	3	30	8.0000

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	296.00	1.7500	1.7500					

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	296.00

Transverse Stiffiner Ranges

Distance (ft)	Number Of Spaces	Spacing (ft)	Trans Stiffener Name
0.00	4	59.2000	INT
24.67	1	0.0000	INTERMEDIATE DIAPHRAGM
24.67	4	296.0000	INTERMEDIATE DIAPHRAGM
24.67	4	59.2000	INT
49.33	4	59.2000	INT
74.00	4	59.2000	INT
98.67	5	49.3333	INT
123.33	5	49.3333	INT
148.00	5	49.3333	INT

172.67	1	0.0000	INTERMEDIATE DIAPHRAGM
172.67	4	296.0000	INTERMEDIATE DIAPHRAGM
172.67	5	49.3333	INT
197.33	4	59.2000	INT
222.00	4	59.2000	INT
246.67	4	59.2000	INT
271.33	4	59.2000	INT

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD		System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Longitudinal Stiffiner Ranges

Angle Shape Name (ft)	Distance	Vertical Distance Reference Type	Length (ft)	Short Leg Attachment Indicator	Steel Name	Stiffener Type	Thickness	Vertical Distance	Web Weld Name	Width
	113.00	% of Web - Bottom Flange	70.0000		ASTM A36	Plate	0.3750			4.0000

Girder Member

Pedestrain Live Load Force		lb/ft
Name	Member 2	
Description	Girder member generated using the design wizard	
Last Modified Timestamp	Thursday, December 27, 2018	
Creation Timestamp	Wednesday, May 20, 2015	
Member Alternative Name-Current	Interior	
Member Alternative Name-Existing	Interior	

Member Alt - Steel Plate I Beam - Schd

Steel Splice

Distance	190.00	ft
Splice Gap	0.0000	in
Filler Plates Extended Indicator	false	
Lrfr Condition Factor Type	Good or Satisfactory	
Lrfr Field Measured Section Properties Indicator	false	
Top Outer D1	2.0000	in
Top Outer D2	2.0000	in
Top Outer N1	7	
Top Outer P1	3.0000	in

Top Outer D3	2.0000	in
Top Outer N2	0	
Top Outer G1	0.0000	in
Top Outer E1	2.0000	in
Top Inner E2	2.0000	in
Top Inner E3	2.0000	in
Top Inner E4	5.0000	in
Top Outer Plate Thickness	0.5000	in
Top Inner Plate Thickness	0.5000	in
Bottom Outer D1	2.0000	in
Bottom Outer D2	2.0000	in
Bottom Outer N1	7	
Bottom Outer P1	3.0000	in
Bottom Outer D3	2.0000	in
Bottom Outer N2	0	
Bottom Outer G1	0.0000	in
Bottom Outer E1	2.0000	in
Bottom Inner E2	2.0000	in
Bottom Inner E3	2.0000	in
Bottom Inner E4	5.0000	in
Bottom Outer Plate Thickness	0.5000	in
Bottom Inner Plate Thickness	0.5000	in
Web Verticle Edge Distance	1.5000	in
Web Horizontal Edge Distance	2.0000	in
Web Plate Thickness	0.3750	in
Web D1	3.0000	in
Web D2	3.0000	in
Web N1	18	
Web P1	3.0000	in
Web N2	1	
Web G2	3.0000	in
Web W2	4.0000	in
Bottom Splice Plate Unbraced Length		in
Top Outer Edge Type	Sheared	
Top Inner Edge Type	Sheared	
Bottom Outer Edge Type	Sheared	
Bottom Inner Edge Type	Sheared	
Top Bolt Definition Name	7/8" bolts	
Top Outer Plate Steel Name	ASTM A36	
Top Inner Plate Steel Name	ASTM A36	
Bottom Outer Plate Steel Name	ASTM A36	
Bottom Inner Plate Steel Name	ASTM A36	
Web Bolt Definition Name	7/8" bolts	

Steel Splice

Distance	106.00	ft
Splice Gap	0.0000	in
Filler Plates Extended Indicator	false	
Lrfr Condition Factor Type	Good or Satisfactory	
Lrfr Field Measured Section Properties Indicator	false	
Top Outer D1	2.0000	in
Top Outer D2	2.0000	in
Top Outer N1	7	
Top Outer P1	3.0000	in

Top Outer D3	2.0000	in
Top Outer N2	0	
Top Outer G1	0.0000	in
Top Outer E1	2.0000	in
Top Inner E2	2.0000	in
Top Inner E3	2.0000	in
Top Inner E4	5.0000	in
Top Outer Plate Thickness	0.5000	in
Top Inner Plate Thickness	0.5000	in
Bottom Outer D1	2.0000	in
Bottom Outer D2	2.0000	in
Bottom Outer N1	7	
Bottom Outer P1	3.0000	in
Bottom Outer D3	2.0000	in
Bottom Outer N2	0	
Bottom Outer G1	0.0000	in
Bottom Outer E1	2.0000	in
Bottom Inner E2	2.0000	in
Bottom Inner E3	2.0000	in
Bottom Inner E4	5.0000	in
Bottom Outer Plate Thickness	0.5000	in
Bottom Inner Plate Thickness	0.5000	in
Web Verticle Edge Distance	1.5000	in
Web Horizontal Edge Distance	2.0000	in
Web Plate Thickness	0.3750	in
Web D1	3.0000	in
Web D2	3.0000	in
Web N1	18	
Web P1	3.0000	in
Web N2	1	
Web G2	3.0000	in
Web W2	4.0000	in
Bottom Splice Plate Unbraced Length		in
Top Outer Edge Type	Sheared	
Top Inner Edge Type	Sheared	
Bottom Outer Edge Type	Sheared	
Bottom Inner Edge Type	Sheared	
Top Bolt Definition Name	7/8" bolts	
Top Outer Plate Steel Name	ASTM A36	
Top Inner Plate Steel Name	ASTM A36	
Bottom Outer Plate Steel Name	ASTM A36	
Bottom Inner Plate Steel Name	ASTM A36	
Web Bolt Definition Name	7/8" bolts	

Steel Top Flange Plate Ranges

Distance (ft)	Length (ft)	Thickness (in)	Steel Name	Begin Width (in)	End Width (in)	Weld Name	Weld At Right Name
0.00	106.00	1.0000	ASTM A36	16.0000	16.0000		
106.00	42.00	1.2500	ASTM A441 - > 3/4" to 1 1/2" incl	16.0000	16.0000		
			ASTM A441 - > 3/4" to 1				

0.00	42.00	1.2500	1/2" incl	16.0000	16.0000
42.00	106.00	1.0000	ASTM A36	16.0000	16.0000

Steel Web Plate Ranges

Distance (ft)	Length (ft)	Thickness (in)	Steel Name	Begin Depth (in)	End Depth (in)	Depth Variation Type	Weld At Right Name
0.00	106.00	0.3750	ASTM A36	60.0000	60.0000	None	
106.00	7.00	0.3750	ASTM A441 - > 3/4" to 1 1/2" incl	60.0000	60.0000	None	
113.00	35.00	0.3750	ASTM A441 - > 3/4" to 1 1/2" incl	60.0000	110.0000	Linear	
0.00	35.00	0.3750	ASTM A441 - > 3/4" to 1 1/2" incl	110.0000	60.0000	Linear	
35.00	7.00	0.3750	ASTM A441 - > 3/4" to 1 1/2" incl	60.0000	60.0000	None	
42.00	106.00	0.3750	ASTM A36	60.0000	60.0000	None	

Steel Bottom Flange Plate Ranges

Distance (ft)	Length (ft)	Thickness (in)	Steel Name	Begin Width (in)	End Width (in)	Weld Name	Weld At Right Name
0.00	25.00	1.0000	ASTM A36	16.0000	16.0000		
25.00	61.00	1.3750	ASTM A36	16.0000	16.0000		
86.00	20.00	1.0000	ASTM A36	16.0000	16.0000		
106.00	42.00	1.2500	ASTM A441 - > 3/4" to 1 1/2" incl	16.0000	16.0000		
0.00	42.00	1.2500	ASTM A441 - > 3/4" to 1 1/2" incl	16.0000	16.0000		
42.00	20.00	1.0000	ASTM A36	16.0000	16.0000		
62.00	61.00	1.3750	ASTM A36	16.0000	16.0000		
123.00	25.00	1.0000	ASTM A36	16.0000	16.0000		

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class A - f'c is 3 ksi	0.00	7.0000	98.0040	84.0000	106.00	9.200	98.0040	84.0000	98.0040	84.0000
Class A -										

f'c is 3 ksi	106.00	7.0000	0.0000	0.0000	84.00	9.200	0.0000	0.0000	0.0000	0.0000
Class A - f'c is 3 ksi	190.00	7.0000	98.0040	84.0000	106.00	9.200	98.0040	84.0000	98.0040	84.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	296.00	5.00	5	Grade 40	2.4375	Top of Slab	5.00	5.00	
0.00	296.00	7.00	5	Grade 40	1.9375	Bottom of Slab	7.00	7.00	

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
STUD	0.00	20.00	3	30	8.0000
STUD	20.00	20.00	3	20	12.0000
STUD	40.00	27.00	3	18	18.0000
STUD	67.00	18.00	3	18	12.0000
STUD	85.00	18.67	3	28	8.0000
STUD	103.67	2.33	3	1	28.0000
STUD	190.00	2.33	3	1	28.0000
STUD	192.33	18.67	3	28	8.0000
STUD	211.00	18.00	3	18	12.0000
STUD	229.00	27.00	3	18	18.0000
STUD	256.00	20.00	3	20	12.0000
STUD	276.00	20.00	3	30	8.0000

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	296.00	1.7500	1.7500					

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	296.00

Transverse Stiffiner Ranges

Distance (ft)	Number Of Spaces	Spacing (ft)	Trans Stiffener Name
0.00	4	59.2000	INT
24.67	1	0.0000	INT
24.67	4	296.0000	INT
24.67	4	59.2000	INT
49.33	4	59.2000	INT
74.00	4	59.2000	INT
98.67	5	49.3333	INT
123.33	5	49.3333	INT
148.00	5	49.3333	INT
172.67	1	0.0000	INT
172.67	4	296.0000	INT
172.67	5	49.3333	INT
197.33	4	59.2000	INT
222.00	4	59.2000	INT
246.67	4	59.2000	INT
271.33	4	59.2000	INT

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD		System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Longitudinal Stiffiner Ranges

Angle Shape Name (ft)	Distance	Vertical Distance Reference Type	Length (ft)	Short Leg Attachment Indicator	Steel Name	Stiffener Type	Thickness	Vertical Distance	Web Weld Name	Width
	113.00	% of Web - Bottom Flange	70.0000		ASTM A36	Plate	0.3750			4.0000

Girder Member

Pedestrain Live Load Force	lb/ft
Name	Member 3
Description	Girder member generated using the design wizard
Last Modified Timestamp	Thursday, December 27, 2018
Creation Timestamp	Wednesday, May 20, 2015

Member Alternative Name-Current		
Member Alternative Name-Existing		

Girder Member

Pedestrain Live Load Force		lb/ft
Name	Member 4	
Description	Girder member generated using the design wizard	
Last Modified Timestamp	Thursday, December 27, 2018	
Creation Timestamp	Wednesday, May 20, 2015	
Member Alternative Name-Current		
Member Alternative Name-Existing		

Bridge Alt

Reference Line Length		ft
Name	1	
Description		
Distance		ft
Offset		ft
Elevation		ft
Bearing		Degrees
Station		ft
Impact Factor Type	Standard - AASHTO	
Longitudinal Force Load Distribution Type	Fixed & Expansion - Simplified	
Horizontal Curvature Indicator	false	
Bearing Location Type	Start	
Curved Bridge Alignment Type	Curved	
Curve Start Tangent Length		ft
Curve Length		ft
Curve Radius		ft
Curve Direction Type	Left	
Curve End Tangent Length		ft
Last Modified Timestamp	Thursday, December 27, 2018	
Creation Timestamp	Wednesday, May 20, 2015	