

TYPICAL SECTION THRU SUPERSTRUCTURE

- NOTES:
1. See Structure Plans General Notes for Topping minimum thickness and cover.
  2. Work this Index with Index D400-300.

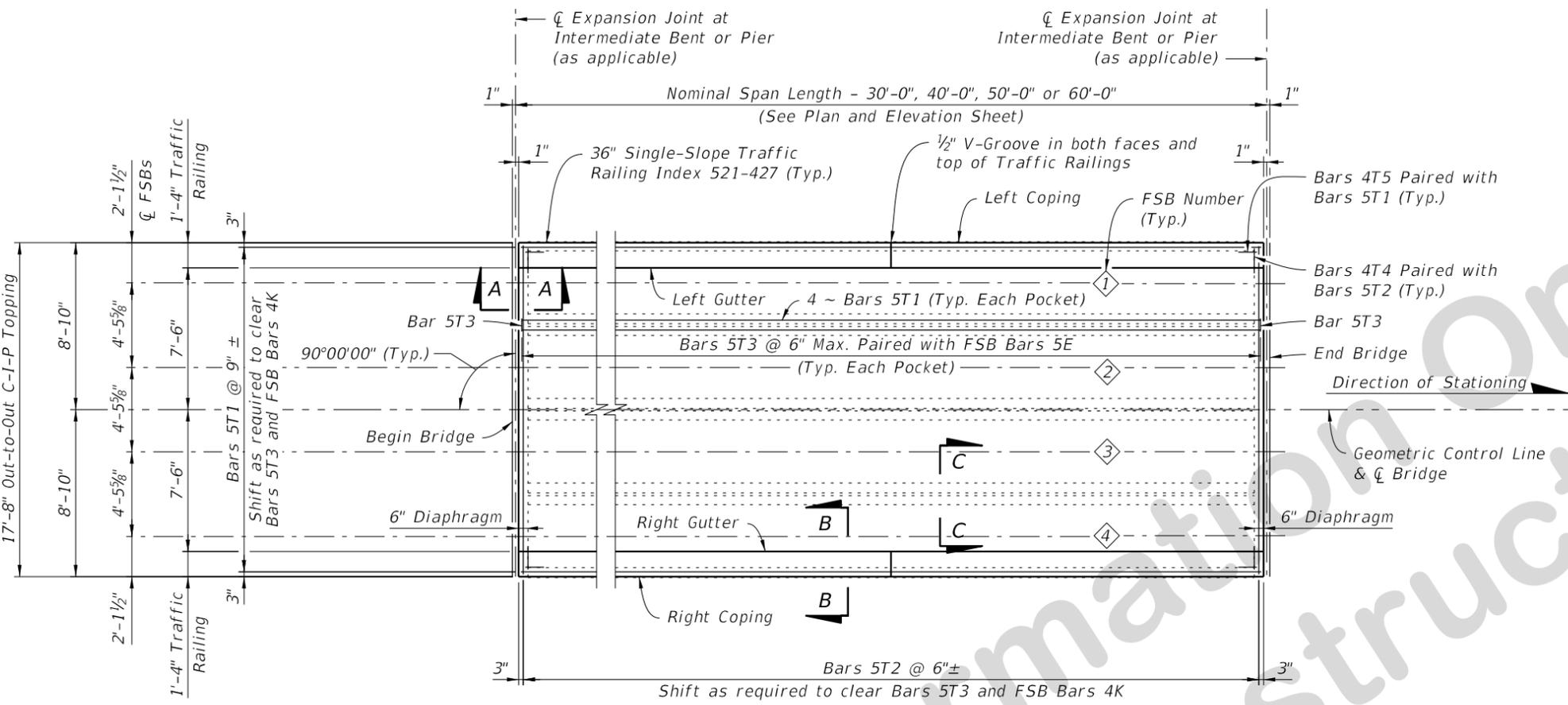
SUPERSTRUCTURE TYPICAL SECTION

LAST REVISION	REVISION	DESCRIPTION:	 <b>DEVELOPMENTAL STANDARD PLANS</b>	<b>FSB SUPERSTRUCTURE PACKAGE</b> <b>15 FT. CLEAR WIDTH</b>	INDEX	SHEET
01/01/26					D400-315	1 of 5

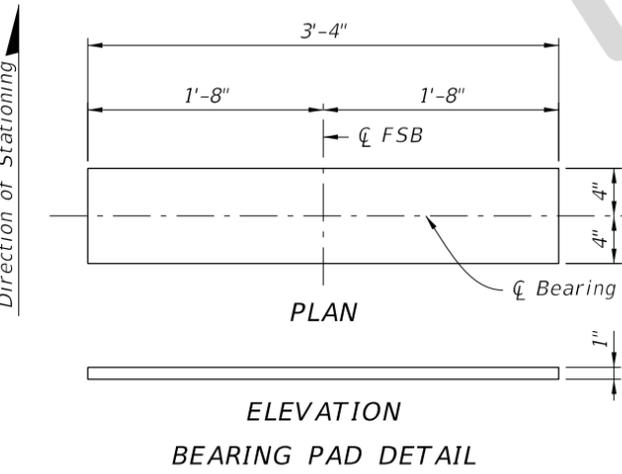
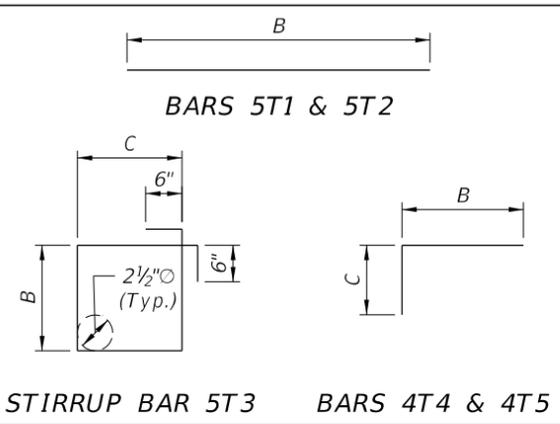
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**BILL OF REINFORCING STEEL FOR ONE SPAN ONLY**

NOMINAL SPAN LENGTH	MARK		LENGTH	NO. OF BARS	B	C
	SIZE	DES				
30'-0"	5	T1	29'-6"	38	29'-6"	
	5	T2	17'-4"	62	17'-4"	
	5	T3	4'-2"	180	9½"	9½"
	4	T4	2'-2"	120	1'-6"	8"
	4	T5	2'-6"	48	1'-6"	1'-0"
40'-0"	5	T1	39'-6"	38	39'-6"	
	5	T2	17'-4"	82	17'-4"	
	5	T3	4'-2"	240	9½"	9½"
	4	T4	2'-2"	160	1'-6"	8"
	4	T5	2'-6"	48	1'-6"	1'-0"
50'-0"	5	T1	49'-6"	38	49'-6"	
	5	T2	17'-4"	102	17'-4"	
	5	T3	4'-7"	300	1'-0"	9½"
	4	T4	2'-5"	200	1'-6"	11"
	4	T5	2'-9"	48	1'-6"	1'-3"
60'-0"	5	T1	59'-6"	38	59'-6"	
	5	T2	17'-4"	122	17'-4"	
	5	T3	5'-1"	360	1'-3"	9½"
	4	T4	2'-8"	240	1'-6"	1'-2"
	4	T5	3'-0"	48	1'-6"	1'-6"



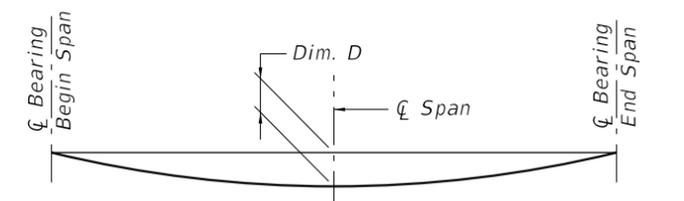
**BENDING DIAGRAMS**



Note:  
Provide Plain Neoprene Bearing Pads in accordance with Specification 932. Use a Shear Modulus of:  
(1) G = 150 psi for 18" FSBs  
(2) G = 110 psi for both 12" FSBs and 15" FSBs.

**FLORIDA SLAB BEAM - CAMBER AND DEFLECTION DATA TABLE**

SPAN LENGTH (ft.)	BEAM NO.	NET BEAM CAMBER (PRESTRESS - DEAD LOAD OF BEAM) @ 120 DAYS (in.)	DIM D DEAD LOAD DEFLECTION DUE TO TOPPING POUR @ 120 DAYS (in.)
30	1-4	7/16"	3/16"
40	1-4	1 1/16"	5/8"
50	1-4	1 1/2"	1 5/16"
60	1-4	2"	1 1/8"



**CAMBER NOTE:**  
The values given in the table are based on theoretical beam cambers. The Contractor shall monitor beam cambers for the purpose of predicting camber values at the time of the topping casting. If the predicted cambers based on field measurements differ more than ± 1/2" from the theoretical "Net Beam Camber @ 120 Days" shown in the table, propose modified dimensions as required and submit to the Engineer for approval a minimum of 21 days prior to casting topping concrete.

**SUPERSTRUCTURE PLAN**

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LAST REVISION	DESCRIPTION:
01/01/26	

**FDOT** DEVELOPMENTAL STANDARD PLANS

**FSB SUPERSTRUCTURE PACKAGE**  
15 FT. CLEAR WIDTH

INDEX	SHEET
D400-315	2 of 5

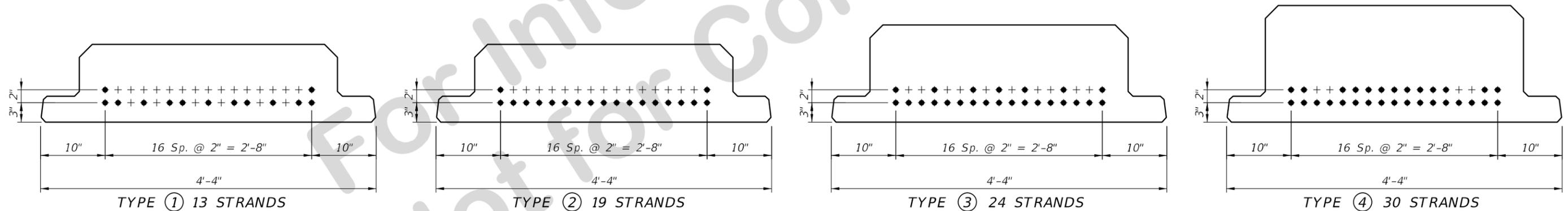
FLORIDA SLAB BEAM - TABLE OF VARIABLES

NOMINAL SPAN LENGTH	LOCATION BEAM NO.	BEAM TYPE	CONCRETE PROPERTIES CLASS	STRENGTHS (psi)		STND. PTRN. TYPE	PLAN VIEW CASE		ANGLE $\theta$		BEAM DIMENSIONS*			REINFORCING STEEL																					
				28 Day	Release		END 1	END 2	END 1	END 2	DIM W	DIM L	DIM R	3C		4D1		4D2		4D3		5E1		5E2		6Y1		6Y2		4K		NO. OF BAR SPACES		BAR SPACING*	
														NO.	DIM C	DIM D	DIM D	NO.	DIM D	NO.	DIM E	NO.	DIM E	DIM Y	DIM Y	NO.	DIM Y	DIM Y	NO.	S1	S2	V1	V2		
30'	1,4	FSB 12x52	VI	8500	6800	1	1	1	90°	90°	4'-4"	28'-10 $\frac{1}{4}$ "	$\frac{1}{4}$ "	31	3'-11 $\frac{1}{2}$ "	2'-2"	2'-2"	24	2'-2"	-	-	57	4'-0 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	84	1	8	1'-6"	1'-6"					
	2,3	FSB 12x52	VI	8500	6800	1	1	1	90°	90°	4'-4"	28'-10 $\frac{1}{4}$ "	$\frac{1}{4}$ "	31	3'-11 $\frac{1}{2}$ "	2'-2"	2'-2"	24	2'-2"	57	4'-2"	-	-	2'-11 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	84	1	8	1'-6"	1'-6"					
40'	1,4	FSB 12x52	VI	8500	6800	2	1	1	90°	90°	4'-4"	38'-10 $\frac{3}{8}$ "	$\frac{3}{8}$ "	41	3'-11 $\frac{1}{2}$ "	2'-2"	2'-2"	32	2'-2"	-	-	77	4'-0 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	156	8	10	6"	1'-6"					
	2,3	FSB 12x52	VI	8500	6800	2	1	1	90°	90°	4'-4"	38'-10 $\frac{3}{8}$ "	$\frac{3}{8}$ "	41	3'-11 $\frac{1}{2}$ "	2'-2"	2'-2"	32	2'-2"	77	4'-2"	-	-	2'-11 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	156	8	10	6"	1'-6"					
50'	1,4	FSB 15x52	VI	8500	6800	3	1	1	90°	90°	4'-4"	48'-10 $\frac{1}{2}$ "	$\frac{1}{2}$ "	51	3'-11 $\frac{1}{2}$ "	2'-2"	2'-2"	44	2'-2"	-	-	97	4'-0 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	148	4	13	1'-0"	1'-6"					
	2,3	FSB 15x52	VI	8500	6800	3	1	1	90°	90°	4'-4"	48'-10 $\frac{1}{2}$ "	$\frac{1}{2}$ "	51	3'-11 $\frac{1}{2}$ "	2'-2"	2'-2"	44	2'-2"	97	4'-2"	-	-	2'-11 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	148	4	13	1'-0"	1'-6"					
60'	1,4	FSB 18x52	VI	8500	6800	4	1	1	90°	90°	4'-4"	58'-10 $\frac{5}{8}$ "	$\frac{5}{8}$ "	61	3'-11 $\frac{1}{2}$ "	2'-2"	2'-2"	52	2'-2"	-	-	117	4'-0 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	224	12	15	6"	1'-6"					
	2,3	FSB 18x52	VI	8500	6800	4	1	1	90°	90°	4'-4"	58'-10 $\frac{5}{8}$ "	$\frac{5}{8}$ "	61	3'-11 $\frac{1}{2}$ "	2'-2"	2'-2"	52	2'-2"	117	4'-2"	-	-	2'-11 $\frac{1}{2}$ "	2'-11 $\frac{1}{2}$ "	224	12	15	6"	1'-6"					

NOTE: Work this sheet with Standard Plans Index 450-450.

DIMENSION NOTES

\* All longitudinal slab beam dimensions shown on this sheet with a single asterisk (\*) are measured along the top of beam at the centerline. Dimension "R" is calculated at mid-height of the slab beam.



STRAND DESCRIPTION: Use 0.60" Diameter, Grade 270, Low Relaxation Carbon Steel Strands stressed at 44.0 kips each. Area per strand equals 0.217 sq. in.

STRAND DEBONDING LEGEND

● - fully bonded strands.

STRAND PATTERNS

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FLORIDA SLAB BEAM - TABLE OF VARIABLES

LAST REVISION 01/01/26	REVISION	DESCRIPTION:	 <b>DEVELOPMENTAL STANDARD PLANS</b>	<b>FSB SUPERSTRUCTURE PACKAGE</b> 15 FT. CLEAR WIDTH	INDEX D400-315	SHEET 3 of 5
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Table 2 - LRFR - Load Rating Summary Details for Prestressed Concrete Bridges (Flat Slab and Deck/Girder)

Superstructure - Environmental Classification: Slightly/Moderately Aggressive

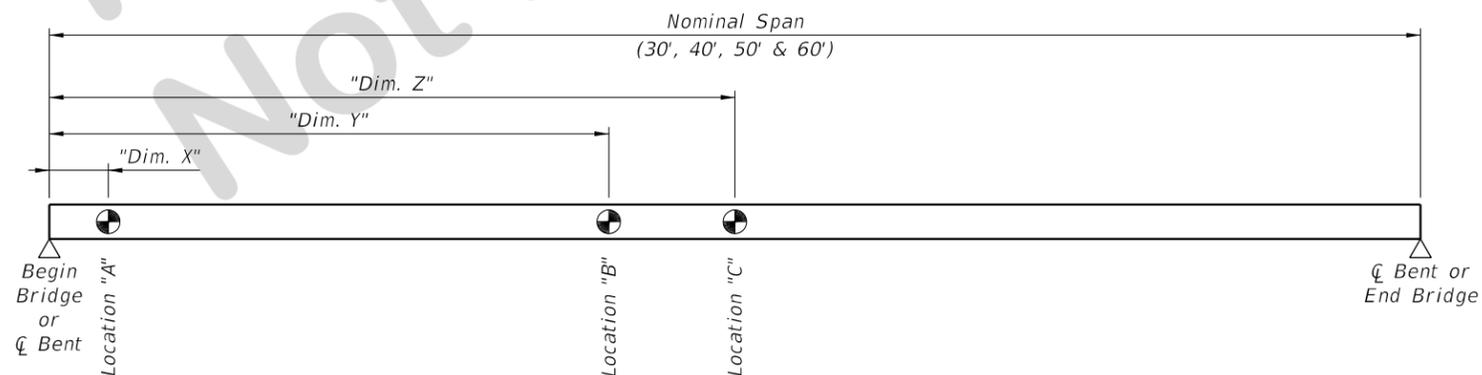
Span Length (Ft)	Level	Limit State	Vehicle	Weight (tons)	Load Factors			Moment (Strength) or Stress (Service)					Shear (Strength)					Comments:
					LL	DC	DW	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension (Ft)	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension (Ft)	
30	Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.38	2.03	N/A	C	15.00	0.64	4.20	N/A	A	1.30	Exterior Beam
		Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.38	2.63	N/A	C	15.00	0.64	5.44	N/A	A	1.30	Exterior Beam
		Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.38	2.37	N/A	C	15.00	N/A	N/A	N/A	N/A	N/A	Exterior Beam
	Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.38	2.67	160.04	B	12.24	0.64	4.45	267.15	A	1.30	Exterior Beam
40	Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.33	1.44	N/A	C	20.00	0.61	4.56	N/A	A	4.00	Exterior Beam
		Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.33	1.86	N/A	C	20.00	0.61	5.91	N/A	A	4.00	Exterior Beam
		Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.33	1.93	N/A	C	20.00	N/A	N/A	N/A	N/A	N/A	Exterior Beam
	Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.33	1.71	102.32	C	20.00	0.61	4.92	295.08	A	4.00	Exterior Beam
50	Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.30	1.43	N/A	C	25.00	0.60	4.11	N/A	A	1.50	Exterior Beam
		Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.30	1.85	N/A	C	25.00	0.60	5.33	N/A	A	1.50	Exterior Beam
		Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.30	1.92	N/A	C	25.00	N/A	N/A	N/A	N/A	N/A	Exterior Beam
	Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.30	1.65	98.93	C	25.00	0.60	4.58	274.69	A	1.50	Exterior Beam
60	Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.28	1.78	N/A	C	30.00	0.58	5.16	N/A	A	6.00	Exterior Beam
		Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.28	2.31	N/A	C	30.00	0.58	6.69	N/A	A	6.00	Exterior Beam
		Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.28	1.99	N/A	C	30.00	N/A	N/A	N/A	N/A	N/A	Exterior Beam
	Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.28	2.10	126.14	C	30.00	0.58	5.83	350.02	A	6.00	Exterior Beam

- NOTES:
1. Permit capacity is determined by using the permit vehicle in all lanes.
  2. Service III Design Inventory tensile stress limits:  
 $3\sqrt{f'_c}$  (Extremely/Moderately Aggressive)  
 $6\sqrt{f'_c}$  (Slightly Aggressive)
  3. Meets AASHTO LRFD Specifications Article 5.8.3.5 longitudinal reinforcement criteria.

Abbreviations:

Inv - Inventory

Op - Operating



RATING LOCATIONS



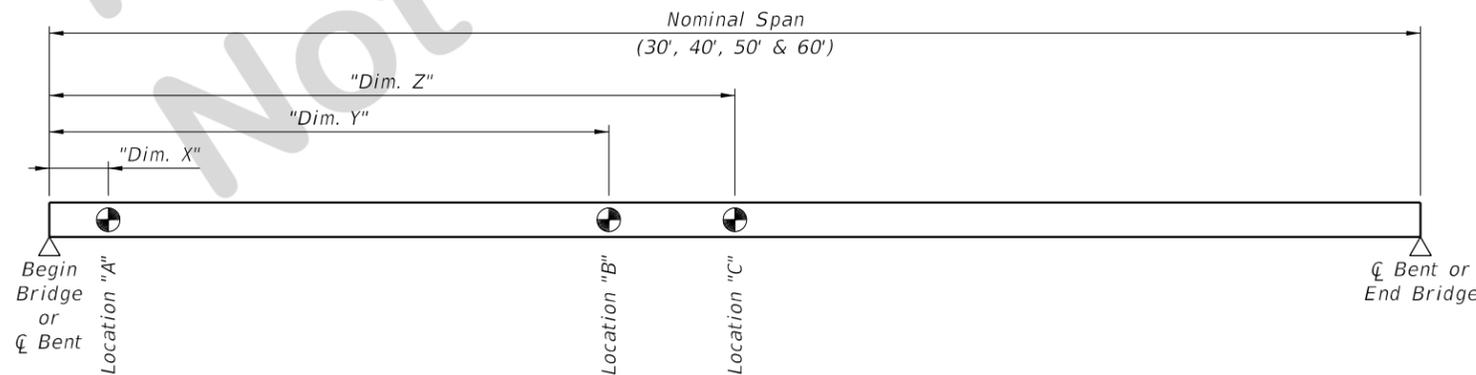
Table 2 - LRFR - Load Rating Summary Details for Prestressed Concrete Bridges (Flat Slab and Deck/Girder)

Superstructure - Environmental Classification: Extremely Aggressive

Span Length (Ft)	Level	Limit State	Vehicle	Weight (tons)	Load Factors			Moment (Strength) or Stress (Service)					Shear (Strength)					Comments:
					LL	DC	DW	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension (Ft)	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension (Ft)	
30	Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.38	2.03	N/A	C	15.00	0.64	4.20	N/A	A	1.30	Exterior Beam
		Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.38	2.63	N/A	C	15.00	0.64	5.44	N/A	A	1.30	Exterior Beam
		Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.38	1.92	N/A	C	15.00	N/A	N/A	N/A	N/A	N/A	Exterior Beam
	Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.38	2.67	160.04	B	12.24	0.64	4.45	267.15	A	1.30	Exterior Beam
40	Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.33	1.44	N/A	C	20.00	0.61	4.56	N/A	A	4.00	Exterior Beam
		Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.33	1.86	N/A	C	20.00	0.61	5.91	N/A	A	4.00	Exterior Beam
		Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.33	1.58	N/A	C	20.00	N/A	N/A	N/A	N/A	N/A	Exterior Beam
	Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.33	1.71	102.32	C	20.00	0.61	4.92	295.08	A	4.00	Exterior Beam
50	Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.30	1.43	N/A	C	25.00	0.60	4.11	N/A	A	1.50	Exterior Beam
		Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.30	1.85	N/A	C	25.00	0.60	5.33	N/A	A	1.50	Exterior Beam
		Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.30	1.55	N/A	C	25.00	N/A	N/A	N/A	N/A	N/A	Exterior Beam
	Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.30	1.65	98.93	C	25.00	0.60	4.58	274.69	A	1.50	Exterior Beam
60	Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.28	1.78	N/A	C	30.00	0.58	5.16	N/A	A	6.00	Exterior Beam
		Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.28	2.31	N/A	C	30.00	0.58	6.69	N/A	A	6.00	Exterior Beam
		Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.28	1.60	N/A	C	30.00	N/A	N/A	N/A	N/A	N/A	Exterior Beam
	Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.28	2.10	126.14	C	30.00	0.58	5.83	350.02	A	6.00	Exterior Beam

- NOTES:
1. Permit capacity is determined by using the permit vehicle in all lanes.
  2. Service III Design Inventory tensile stress limits:  
 $3\sqrt{f'_c}$  (Extremely/Moderately Aggressive)  
 $6\sqrt{f'_c}$  (Slightly Aggressive)
  3. Meets AASHTO LRFD Specifications Article 5.8.3.5 longitudinal reinforcement criteria.

Abbreviations:  
 Inv - Inventory  
 Op - Operating



RATING LOCATIONS

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