Index D30000 Series FSB Superstructure Package

Design Criteria

AASHTO LRFD Bridge Design Specifications; Structures Design Guidelines (SDG); Structures Detailing Manual (SDM)

Topic No. 625-010-003

October 2016

Design Assumptions and Limitations

The use of these Developmental Design Standards will typically be restricted by the SDO to off-system bridges with a low Average Daily Traffic (ADT) and Average Daily Truck Traffic (ADTT).

When using these Developmental Design Standards, the designer must request the following Developmental Specifications from the District Specifications Office for inclusion in the Contract Documents:

- The Developmental Specifications listed in the Instructions for Developmental Design Standards (IDDS) Index D20450
- Developmental Specification Dev400Tining which includes provisions that allow tining in lieu of grooving for decks and approach slabs of bridges on unpaved roadways

The **Developmental Design Standards (DDS)** Index D30000 Series, herein referred to as the **DDS**, provides a standard set of superstructure plans utilizing the Florida Slab Beam (FSB) **Developmental Design Standards** D20450 Series. Approval to use the FSB Superstructure Package **DDS** D30000 Series also serves as approval to use the FSB **Developmental Design Standards** D20450 Series (i.e. the designer is not required to obtain separate approvals to use the FSB Superstructure Package and the FSB **Developmental Design Standards**).

The *DDS* does not provide a complete set of stand-alone Structure Plans for the Contract Documents. It is a standard set of superstructure plans that supplements other necessary components of the Structure Plans such as, but not limited to, the following: Summary of Structure Quantities, General Notes, Plan and Elevation, Bridge Hydraulic Recommendations, Construction Sequence, Report of Core Borings, Foundation Layout, Pile Data Table, Substructure Plans and Details, Riprap and/or Slope Protection Details, and Reinforcing Bar Lists for Approach Slabs and Substructures. Prepare the Structure Plans in accordance with the Plans Preparation Manual (PPM). The Contractor will refer to the *DDS* for the information that would normally be located in the superstructure portion of the Structure Plans.

Clear Roadway Widths and Span Lengths

The **DDS** accommodates clear roadway widths between traffic railings of 15, 24, 28, 32 or 40 feet. Select the clear width between traffic railings according to the approved Typical Section Package.

The **DDS** Index numbers with their clear roadway widths, nominal span lengths and FSB thicknesses are tabulated below. The **DDS** provides individual nominal span lengths of 30, 40 and 50 feet for use in single or multiple span applications. For multiple span applications, different span lengths may be used within a single bridge; however, the use of unequal adjacent span lengths which have different FSB thicknesses will require intermediate bents with longitudinally stepped bearing elevations.

F	SB Superstructure Pa	ackage DDS Index Li	st	
Developmental Design Standard Index No.	Clear Roadway Width Between Traffic Railings (feet)	Nominal Span Lengths (feet)	FSB Thickness (inches)	
D30000	Typical FSB Sup	Superstructure Package Details and Notes		
		30	12	
D30015	15	40	12	
		50	15	
		30	12	
D30024	24	40	12	
		50	15	
		30	12	
D30028	28	40	12	
		50	15	
		30	12	
D30032	32	40	12	
		50	15	
		30	12	
D30040	40	40	12	
		50	15	

Geometry Limitations

The following geometric limitations apply when utilizing the **DDS**:

- Tangent horizontal alignment (no horizontal curve within the bridge limits)
- Tangent profile grade (no vertical curve within the bridge limits)
- Geometric Control Line located at the bridge centerline
- Zero substructure skew with respect to the Geometric Control Line
- No superelevation transition within the bridge limits

Plan Content Requirements

In order to utilize the **DDS**, provide the following project specific superstructure information in the Structure Plans:

Topic No. 625-010-003

October 2016

- Quantities
- General Notes and bid item notes
- Finish Grade Elevations
- Deck drainage details (if applicable)
- Approach Slabs

See also the instructions below for the Plan and Elevation Sheet.

Quantities

Complete and include in the Structure Plans a "Summary of Structure Quantities" box in accordance with the **SDM** Introduction. All superstructure quantities are tabulated per span for each **DDS** Index in the Design Aids section of these instructions, with the exception of the following project specific items:

- 36-inch Single-Slope Traffic Railing
- Poured Joint with Backer Rod Expansion Joint System
- Approach Slab Concrete and Reinforcing Steel

For multiple span applications, account for all spans in each superstructure pay item quantity.

For Long Bridges on paved roadways, include a quantity for bid item 400-9 Bridge Deck Grooving and Planing. For Short Bridges, and for Long Bridges on unpaved roadways with or without paved approaches, include a quantity for bid item 400-7 Bridge Deck Grooving. See *SDG* Chapter 4 for definitions of Short Bridges and Long Bridges.

General Notes

Prepare the Structure Plans General Notes in accordance with **SDM** Chapter 5.

Specify the Topping Thickness in the Structure Plans General Notes. The **DDS** can only be used with a Topping Thickness of 6 inches or 6½ inches. For Long Bridges on paved roadways, the Topping Thickness is 6½ inches (before planing). For Short Bridges, and for Long Bridges on unpaved roadways with or without paved approaches, the Topping Thickness is 6 inches (no planing). See **SDG** Chapter 4 for definitions of Short Bridges and Long Bridges.

Include the following note in the Structure Plans General Notes to specify the Topping Thickness. Include either 6 or 6½ in the blank and reference the appropriate FSB Superstructure Package Index number:

C-I-P TOPPING THICKNESS:

C-I-P Topping Thickness = ____ inches. See Index D300___

Include Future Wearing Surface Load of 15 psf for bridges with a 6-inch Topping Thickness under Design Loading on the Structure Plans General Notes.

The **DDS** does not account for utility loads on the bridge. Include the following note under Design Loading on the Structure Plans General Notes:

No allowance for utility loads has been included in the design.

In accordance with **SDG** Chapter 1, select the Concrete Class for the C-I-P Topping and Approach Slabs based on the Environmental classification and list them in the Structure Plans General Notes.

Plan and Elevation

Prepare the Plan and Elevation in accordance with Chapter 7 of the SDM.

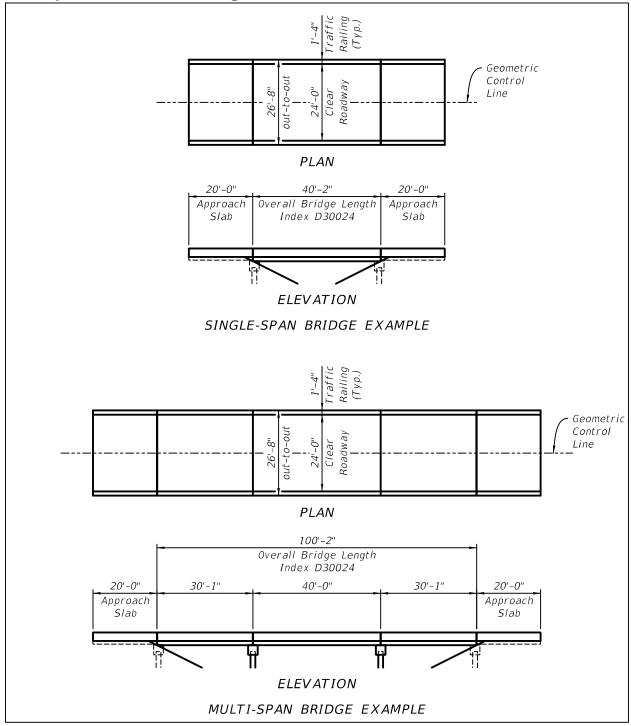
The working line for the **DDS** superstructure is the Geometric Control Line located at the centerline of the bridge. In the Plan View, include a stationing line at the centerline of the bridge labeled as "Geometric Control Line". Label all stations along the Geometric Control Line in the Plan View according to **SDM** Chapter 7. Dimension the transverse offset from the Baseline or Centerline of Construction if not coincident with the Geometric Control Line.

On the Elevation View, call out the **DDS** Index Number associated with the clear roadway width being used. See the figure below for examples on how to appropriately call out the **DDS** Index Number for single span and multiple span applications.

See the table below for the dimensions to be used on the Elevation View for each nominal span length.

Span dimension(s) to be shown on Elevation View of Plan and Elevation						
Nominal	Span measured	Length of	Span dimension(s) to be shown on Elevation View of Plan and Elevation			
Span Length	between	C-I-P	Single Span	Multiple Span Bridge		
(feet)	bearing centerlines	Topping	Single Span Bridge	End Span	Intermediate Span	
30	27'-9"	29'-10"	30'-2"	30'-1"	30'-0"	
40	37'-9"	39'-10"	40'-2"	40'-1"	40'-0"	
50	47'-9"	49'-10"	50'-2"	50'-1"	50'-0"	

Example of Index Labeling on the Plan and Elevation



Finish Grade Elevations

Index D30000 includes a Finish Grade Elevation sheet with schematic plan views and a typical section view. Tabulate finish grade elevations in the Structure Plans in accordance with *SDM* Chapter 14 for each approach slab and each bridge span at the intersection of the T-Lines and the following locations:

- Left Coping
- Left Gutter
- Geometric Control Line
- Right Gutter
- Right Coping

Deck Drainage Details

See the IDDS-D20450 for information on the use of scuppers or deck drains if needed.

Approach Slabs

For off-system bridges, use an approach slab length of 20 feet unless project specific site conditions warrant the use of 30 feet long approach slabs. The minimum approach slab length of 30 feet per **SDG** Chapter 4 is intended for on-system bridges. For off-system bridges on unpaved roadways without paved approaches, specify approach slabs for rigid pavement approaches. See the **IDDS** Indexes D20920 and D20930 for plan content requirements.

Conduit Details

Specify Detail 'A' Expansion Fittings and type of Embedded Junction Box in the Structure Plans according to Index 21210.

Load Rating

The FSB Superstructure Package includes a completed Load Rating Summary Sheet. Design load rating calculations (As-Bid) are available on the **DDS** website. In accordance with the FDOT Bridge Load Rating Manual, provide a signed and sealed FDOT Bridge Load Rating Summary Form and the design load rating calculations (As-Bid) with the 90% Structure Plans submittal. Include the following statement on the FDOT Bridge Load Rating Summary Form certifying that the information provided on the FSB Superstructure Package Load Rating Summary Sheet has been accurately transferred:

I hereby certify that the information provided on the FSB Superstructure Package Load Rating Summary Sheet has been accurately transferred to this form.

The following describes and summarizes post-design load rating responsibilities of the EOR when utilizing the FSB Superstructure Package *Developmental Design Standard*. In accordance with the FDOT *Construction Project Administration Manual (CPAM)* Chapter 10, if the EOR and Construction Engineering and Inspection (CEI) personnel agree that the As-Bid load rating does not need to be changed because there were no significant modifications to the bridge during construction, then the EOR shall produce a

Topic No. 625-010-003 October 2016

signed and sealed letter stating that the As-Bid load rating represents the As-Built condition. If the EOR and CEI determine that the As-Bid load rating has changed based on the As-Built condition, then the EOR is responsible for revising the Bridge Load Rating Summary Sheet and the Bridge Load Rating Summary Form to reflect the As-Built load rating. These sheets shall be submitted to the District Structures Maintenance Engineer prior to putting the bridge into service.

Substructure Keeper Blocks and Dowels

Substructure Keeper Blocks to Limit Transverse Movement

See IDDS-D20450 to determine if substructure keeper blocks are required to limit potential transverse movement of the FSBs. If required, provide project specific details for the keeper blocks in the substructure plans. Example keeper block details are provided in IDDS-D20450.

Substructure Dowel Design to Limit Longitudinal Movement

See IDDS-D20450 to determine if the longitudinal bridge grade requires a project specific substructure dowel design to limit the FSBs from sliding longitudinally. See IDDS-D20450 for additional information on design and detailing requirements for the dowels.

Design Aids

Vertical Reactions

Unfactored vertical dead load and live load reactions are tabulated below for use in designing substructures and foundations. The FSBs are assumed to act as simple spans under both dead load and live load.

The dead load reactions are per beam and per span. The dead load reactions provided are directly applicable to end bents. For intermediate bents or piers, include the dead load reactions for each adjacent span being supported.

DC reactions are provided separately for topping thicknesses of 6 inches and 6½ inches. For Long Bridges to be planed, it is assumed that a minimum of ¼ inch of the topping will be planed off in accordance with Specification 400; therefore, the topping thickness for permanent load calculations is 6¼ inches.

The DW reactions are a Future Wearing Surface allowance for bridges not being planed. The Future Wearing Surface is applied over the width between traffic railings and distributed equally to all beams. Do not include the DW reactions for Long Bridges to be planed.

	Dead Load Reactions				
	Clear	D	С		
Nominal Span (feet)	Roadway Width Between Bridge Railings (feet)	6" C-I-P Topping w/ Future Wearing Surface (For bridges not being planed) (kips)	6½" C-I-P Topping w/ ½" Sacrificial Thickness (Long Bridge to be planed per Specification 400) (kips)	DW (For bridges not being planed) (kips)	
	15	18.1	18.3	0.9	
	24	17.2	17.4	0.9	
30	28	16.6	16.8	0.9	
	32	18.6	18.8	1.1	
	40	17.5	17.7	1.0	
	15	24.2	24.5	1.2	
	24	22.9	23.2	1.2	
40	28	22.2	22.5	1.2	
	32	24.8	25.1	1.4	
	40	23.3	23.6	1.4	
	15	34.4	34.7	1.4	
50	24	32.8	33.1	1.5	
	28	31.9	32.2	1.5	
	32	35.6	36.0	1.8	
	40	33.5	33.9	1.7	

All live load reactions are per lane and do not include Dynamic Load Allowance or Multiple Presence Factor.

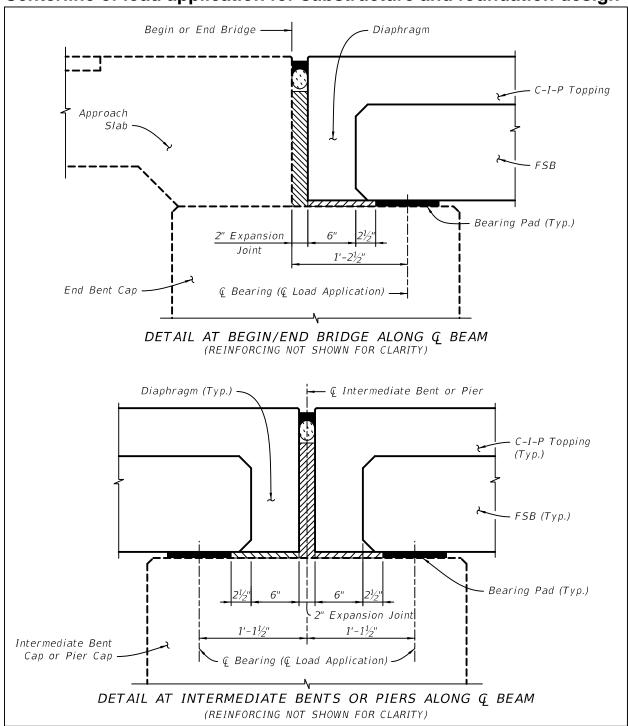
Maximum Live Load Reactions at End Bents					
Nominal Span Truck/Tandem Lane (feet) (kips) (kips)					
30	47.8	9.6			
40	54.2	12.8			
50	58.0	16.0			

Spans A and B in the table below are the adjacent standard span lengths being supported by a particular intermediate bent or pier.

Maximum Live Load Reactions at Intermediate Bents or Piers					
All reactions are in kips Nominal Span B (feet)				В	
·			30	40	50
	30	Truck/Tandem	53.5	57.4	59.7
	30	Lane	19.2	22.4	25.6
Nominal Span A	40	Truck/Tandem	57.4	58.4	60.7
Span A (feet)	40	Lane	22.4	25.6	28.8
(1300)	50	Truck/Tandem	59.7	60.7	61.2
	30	Lane	25.6	28.8	32.0

The figure below indicates the centerline of load application with respect to the begin/end bridge or the centerline of intermediate bent or pier. It's assumed that the maximum live load reactions at intermediate bents or piers provided in the table above are evenly distributed to the two bearing centerlines.

Centerline of load application for substructure and foundation design



Superstructure Thickness for Establishing Bearing Elevations

Establish bearing elevations according to **SDG** Chapter 4 using the superstructure thicknesses tabulated below. Superstructure thicknesses are measured vertically and include the bearing pad, FSB, C-I-P topping and net camber build-up.

Superstructure Thickness for Establishing Bearing Elevations					
Nominal Span Length 6" C-I-P Topping 6½" C-I-P Topping (feet) (feet)					
30	1.609	1.650			
40	1.609	1.650			
50	1.860	1.902			

Topic No. 625-010-003 October 2016

Quantities

Index D30015: 15'-0" Clear Roadway Widths

Index D30015: 30'-0" Span				
			Qua	ntity
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CY	13.4	14.2
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture		13.4	14.2
0400-7	Bridge Deck Grooving	SY	50	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	50
0400-148	Plain Neoprene Bearing Pads	CF	1	.5
0415-1-4	Reinforcing Steel - Superstructure	LB	3,3	326
0450-8-12	Prestressed Beam: Florida Slab Beam	LF	1	15

	Index D30015: 40'-0" Span				
	Pay Item Description		Qua	ntity	
Pay Item No.			6" C-I-P Topping	6½" C-I-P Topping	
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CV	18.2	19.3	
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	10.2	19.5	
0400-7	Bridge Deck Grooving	SY	66	N/A	
0400-9	Bridge Deck Grooving and Planing	SY	N/A	66	
0400-148	Plain Neoprene Bearing Pads	CF	1	.5	
0415-1-4	Reinforcing Steel - Superstructure	LB	4,4	103	
0450-8-12	Prestressed Beam: Florida Slab Beam	LF	15	55	

Index D30015: 50'-0" Span				
			Qua	ntity
Pay Item No.		Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CV	25.1	26.4
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	25.1	20.4
0400-7	Bridge Deck Grooving	SY	83	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	83
0400-148	Plain Neoprene Bearing Pads	CF	1	.5
0415-1-4	Reinforcing Steel - Superstructure	LB	5,6	51
0450-8-22	Prestressed Beam: Florida Slab Beam	LF	19	95

Index D30024: 24'-0" Clear Roadway Widths

Index D30024: 30'-0" Span				
			Qua	ntity
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CY	20.0	21.2
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	20.0	21.2
0400-7	Bridge Deck Grooving	SY	80	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	80
0400-148	Plain Neoprene Bearing Pads	CF	2	.3
0415-1-4	Reinforcing Steel - Superstructure	LB	5,0)85
0450-8-12	Prestressed Beam: Florida Slab Beam	LF	17	73

Index D30024: 40'-0" Span				
			Qua	ntity
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CY	27.2	28.8
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	Ci	21.2	20.0
0400-7	Bridge Deck Grooving	SY	106	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	106
0400-148	Plain Neoprene Bearing Pads	CF	2	.3
0415-1-4	Reinforcing Steel - Superstructure	LB	6,7	732
0450-8-12	Prestressed Beam: Florida Slab Beam	LF	23	33

Index D30024: 50'-0" Span				
			Qua	ntity
Pay Item No.	tem No. Pay Item Description Unit	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CY	37.3	39.3
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture		37.3	39.3
0400-7	Bridge Deck Grooving	SY	133	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	133
0400-148	Plain Neoprene Bearing Pads	CF	2	.3
0415-1-4	Reinforcing Steel - Superstructure	LB	8,6	641
0450-8-22	Prestressed Beam: Florida Slab Beam	LF	29	93

Index D30028: 28'-0" Clear Roadway Widths

Index D30028: 30'-0" Span				
			Quantity	
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CY	23.2	24.5
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	23.2	24.5 N/A
0400-7	Bridge Deck Grooving	SY	93	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	93
0400-148	Plain Neoprene Bearing Pads	CF	2	.6
0415-1-4	Reinforcing Steel - Superstructure	LB	5,9	932
0450-8-12	Prestressed Beam: Florida Slab Beam	LF	20	02

Topic No. 625-010-003

October 2016

Index D30028: 40'-0" Span				
			Quantity	
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CV	31.5	22.4
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	31.5	33.4
0400-7	Bridge Deck Grooving	SY	124	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	124
0400-148	Plain Neoprene Bearing Pads	CF	2	.6
0415-1-4	Reinforcing Steel - Superstructure	LB	7,8	354
0450-8-12	Prestressed Beam: Florida Slab Beam	LF	2	72

Index D30028: 50'-0" Span				
			Quantity	
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CV	43.3	45.6
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	43.3	45.0
0400-7	Bridge Deck Grooving	SY	155	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	155
0400-148	Plain Neoprene Bearing Pads	CF	2	.6
0415-1-4	Reinforcing Steel - Superstructure	LB	10,	083
0450-8-22	Prestressed Beam: Florida Slab Beam	LF	34	42

Index D30032: 32'-0" Clear Roadway Widths

Index D30032: 30'-0" Span				
			Quantity	
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	C>	25.5	27.0
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	- CY	23.3	27.0 N/A
0400-7	Bridge Deck Grooving	SY	106	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	106
0400-148	Plain Neoprene Bearing Pads	CF	3	.0
0415-1-4	Reinforcing Steel - Superstructure	LB	6,3	361
0450-8-14	Prestressed Beam: Florida Slab Beam	LF	20)2

Index D30032: 40'-0" Span				
			Quantity	
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CV	34.4	26.4
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	34.4	36.4
0400-7	Bridge Deck Grooving	SY	142	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	142
0400-148	Plain Neoprene Bearing Pads	CF	3	.0
0415-1-4	Reinforcing Steel - Superstructure	LB	8,4	118
0450-8-14	Prestressed Beam: Florida Slab Beam	LF	27	72

Index D30032: 50'-0" Span				
			Quantity	
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CV	47.1	49.7
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	47.1	49.7
0400-7	Bridge Deck Grooving	SY	177	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	177
0400-148	Plain Neoprene Bearing Pads	CF	3	.0
0415-1-4	Reinforcing Steel - Superstructure	LB	10,	785
0450-8-24	Prestressed Beam: Florida Slab Beam	LF	34	42

Index D30040: 40'-0" Clear Roadway Widths

Index D30040: 30'-0" Span				
			Quantity	
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CY	31.8	22.7
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	31.0	33.7 N/A
0400-7	Bridge Deck Grooving	SY	133	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	133
0400-148	Plain Neoprene Bearing Pads	CF	3	.7
0415-1-4	Reinforcing Steel - Superstructure	LB	8,0)22
0450-8-13	Prestressed Beam: Florida Slab Beam	LF	20	60

Topic No. 625-010-003

October 2016

Index D30040: 40'-0" Span				
			Quantity	
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CV	43.1	45.6
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	43.1	45.6 N/A
0400-7	Bridge Deck Grooving	SY	177	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	177
0400-148	Plain Neoprene Bearing Pads	CF	3	.7
0415-1-4	Reinforcing Steel - Superstructure	LB	10,	617
0450-8-13	Prestressed Beam: Florida Slab Beam	LF	3	50

Index D30040: 50'-0" Span				
			Quantity	
Pay Item No.	Pay Item Description	Unit	6" C-I-P Topping	6½" C-I-P Topping
0400-2-47	Concrete Class II, C-I-P Topping with Shrinkage Reducing Admixture	CV	59.1	62.2
0400-4-47	Concrete Class IV, C-I-P Topping with Shrinkage Reducing Admixture	CY	59.1	62.3
0400-7	Bridge Deck Grooving	SY	221	N/A
0400-9	Bridge Deck Grooving and Planing	SY	N/A	221
0400-148	Plain Neoprene Bearing Pads	CF	3	.7
0415-1-4	Reinforcing Steel - Superstructure	LB	13,	614
0450-8-23	Prestressed Beam: Florida Slab Beam	LF	44	40