Required Lap Length For Bar Splices (1) Splice Lenath Bar Size 4 2 8" 3'-4" 4'-0"

(1) Unless otherwise shown

	Table S S7 Barl			
Int. Bent No. 2		Int. Bent No. 3		
Span 1	Span 2	oan 2 Span 2		
19'-2"	17'-11"	17'-11"	19'-2"	

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:

H520-44 35 Ib/sf Future Wearing Surface Earth - 120 Ib/cf, Equivalent Fluid Pressure 45 Ib/cf

Design Unit Stresses:

Class B-1 Concrete (Barrier & Approach Haunch	f'c = 4,000 ps
Class B-2 Concrete (End Bents, Superstructure,	•
except Barrier)	f'c = 4,000 ps
Reinforcing Steel (ASTM A615 Grade 60)	fy = 60,000 ps
Structural Carbon Steel (ASTM A709 Grade 36)	fv = 36.000 ps

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless

Miscellaneous:

The top, sides and bottom of the top flanges of existing steel girders shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The cost will be considered completely covered by the contract unit price for Slab on Steel.

Aesthetic concrete stain shall be applied to all exposed vertical faces of all bents and to the bottom of the intermediate bent cap beams in accordance with Sec 703.3.13.

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Final top of slab elevations shall match existing top of overlay elevations.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)

All concrete repairs shall be in accordance with Sec 704, unless noted otherwise.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Longitudinal dimensions are based on original plans.

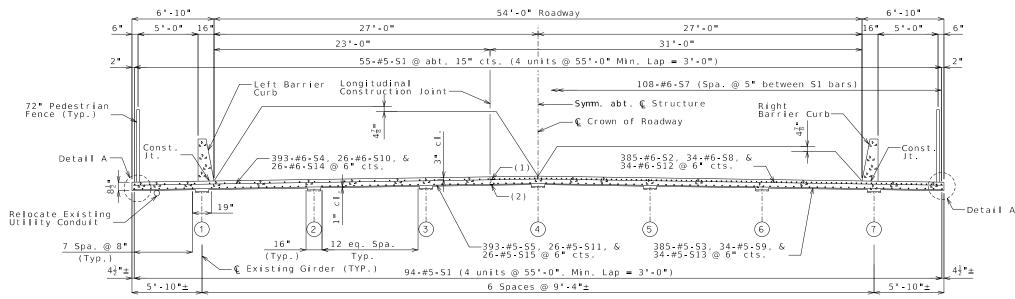
Contractor shall verify all dimensions in field before ordering new material.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

The cost to temporarily support and mount existing conduit to the new bridge deck will be considered completely covered by the contract unit price for Slab on Steel.

MBS refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710.

Traffic to be maintained on structure during construction. See roadway plans for traffic control.



HALF SECTION NEAR MIDSPAN

i← € 3/4" Drip " Groove (Typ.)

C Roadway -

Crown of Slab 2'-0"

DETAIL A

— Top of Slab

(1) 26-#6-MBS S2-S10, 358-#6-MBS S2-S4, 34-#6-MBS S12-S4, 4-#6-MBS H100-H101 & 4-#6-MBS H400-H401

(2) 26.#5-MBS S3-S11, 358-#5-MBS S3-S5, 34-#5-MBS S13-S5, 1-#6-MBS H100-H101 & 1-#6-MBS H400-H401

-Profile Grade Elevation

Cross-Slope

1 ADDED

HALF SECTION NEAR INT. BENT

TYPICAL SECTION THRU SLAB (Looking Ahead Station, Slab Drains Not Shown

1 5	tation, Slab Drains Not Snown)		
	Estimated Quantities		
	I t em		Total
	Removal of Miscellaneous ACM (Non-Friable) sq. fo	oot	20
	Temporary Shoring lump s	um	1
	Removal of Existing Bridge Deck sq. fo	oot	14,298
	Repair Existing Approach Haunch linear fo	oot	70
	Remove and Replace Approach Haunch linear fo	oot	70
	Bridge Approach Slab (Major) sq. ya	ard	301
	(72 in.) Pedestrian Fence - Black Vinyl Coated linear fo	oot	502
	Aesthetic Concrete Stain lump s	um	1
	Slab on Steel sq. ya	ard	1,587
	Type D Barrier linear fo	oot	502
	Substructure Repair (Formed) sq. fo	ot	5
	Substructure Repair (Unformed) sq. fo	ot	5
	Epoxy Pressure Injecting linear fo	oot	50
	Mechanical Bar Splice ea	ach	863
	Strengthening Existing Beams Tump s	um	1
	Slab Drain ea	ach	44
	Surface Preparation for Overcoating Structural Steel (System G) sq. fo	oot	2,400
	Intermediate Field Coat (System G) sq. fo	ot	2,400
	Finish Field Coat (System G) sq. fo	ot	2,400
	<u> </u>	ach	7
		ach	2
	Open Cell Foam Joint Seal linear fo	ot	75

1 408 PARABOLIC CROWN DETAIL Estimated Quantities for Slab on Steel ___ Tota**!**↓ Class B-2 Concrete Reinforcing Steel (Epoxy Coated) pound 124,730

2'-0"

4'-0" Parobolic Crown

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay In-Place Form Details, see Sheet No. 2.

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items Contracto

TOP BARS AT BARRIER

1 REVISED

REPAIRS TO BRIDGE: ROUTE 67 OVER COLDWATER CREEK ROUTE 67 FROM ROUTE I-270 TO ROUTE AC ABOUT 2.0 MILES WEST OF ROUTE AC BEGINNING STATION 117+40.20± (MATCH EXISTING)

-Contractor may shift or swap bars as needed to tie R4 bar in barrier (4" min. bar spacing) may shift bar as needed to tie R3 bar in barrie OPTIONAL SHIFTING

31-Oct-2024 67 MO SHEET NO BR 1

ST LOUIS J6S3669 CONTRACT ID

PROJECT NO.

BRIDGE NO A10722

MISSOURI

acobs

1 ADDED

