

DETAILS OF CONCRETE REMOVAL AT END BENTS

The cost of concrete removal as shown will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck. Vertical backwall and wingwall reinforcement to be cut off one inch below concrete removal surface and the resulting holes shall be filled with a qualified special mortar.

A smooth, level surface shall be provided at Bent No. removal lines.

General Notes:

Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

The contractor shall provide a method of preventing the direct contact of the stay-in-place forms and connection components with uncoated weathering steel members that is approved by the engineer.

Pouring and Finishing Slab:

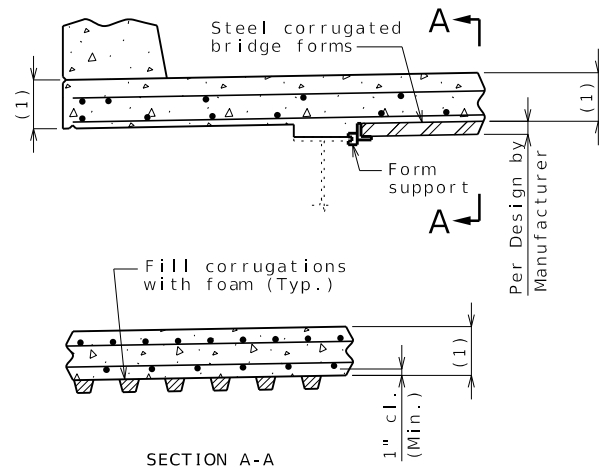
The contractor shall provide bracing necessary for lateral and torsional stability of the beams during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

Slab shall be poured upgrade from end to end at a minimum rate of 25 cubic yards per hour.

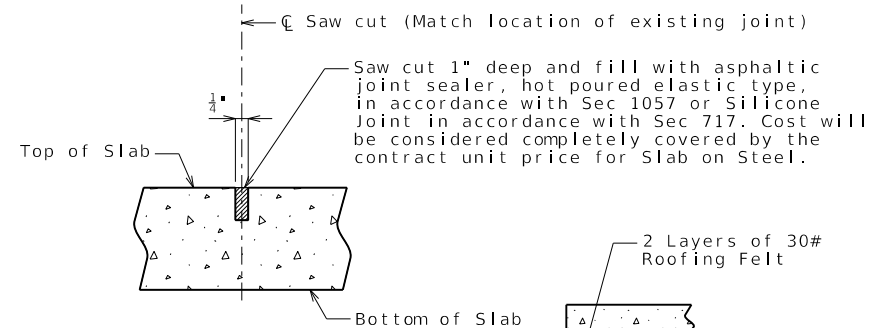
Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

Haunching:

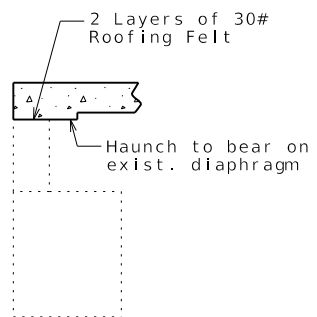
(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.



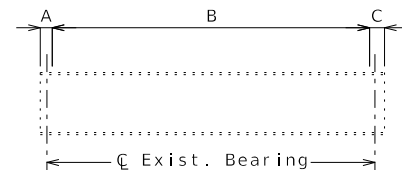
OPTIONAL STAY-IN-PLACE FORM DETAILS



TYPICAL SECTION THRU SAW CUT AT INTERMEDIATE BENTS

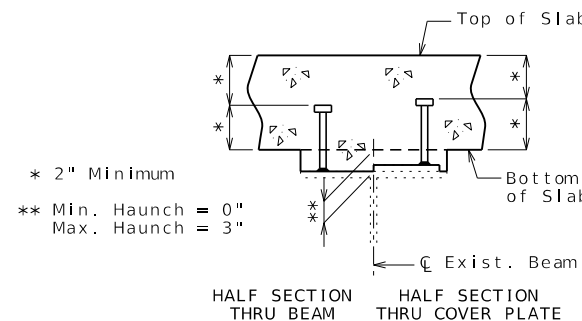


PART SECTION THRU SLAB AT END BENTS

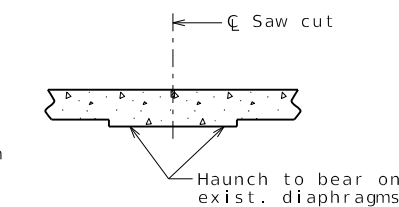


ELEVATION SHOWING SHEAR CONNECTOR SPACING

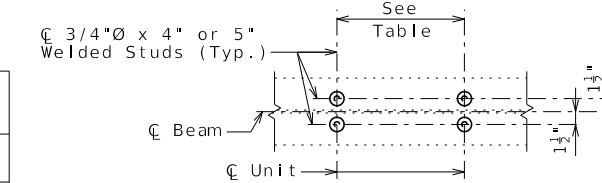
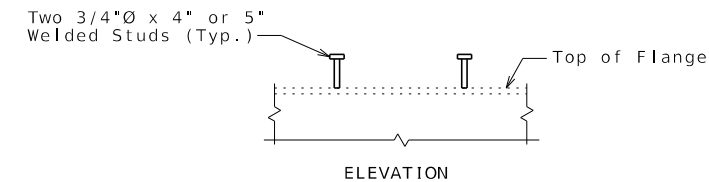
TABLE SHOWING SHEAR CONNECTOR UNIT SPACING					
Span	S.C. per unit	A	B	C	
1	2	X"±	XX Units @ 8" cts.	X"±	
2	2	X"±	XX Units @ 8" cts.	X"±	
3	2	X"±	XX Units @ 8" cts.	X"±	
Total shear connectors required					XXXX



SECTION THRU EXIST. BEAM SHOWING SHEAR CONNECTORS



PART SECTION THRU SLAB AT INT. BENTS

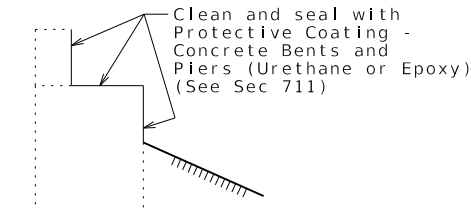


PLAN OF SHEAR CONN. (2 PER UNIT)

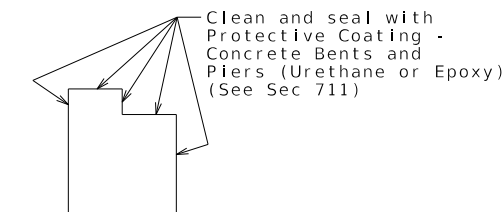
DETAILS OF SHEAR CONNECTORS

The cost of supplying and installing shear connectors will be considered completely covered by the contract unit price for Shear Connectors.

Shear connectors shall be in accordance with Sec 712, 1037 & 1080.



TYPICAL SECTION THRU END BENTS 1 & 4 SHOWING PROTECTIVE COATING



TYPICAL SECTION THRU INT. BENTS 2 & 3 SHOWING PROTECTIVE COATING

DATE PREPARED	
11/21/2024	
ROUTE	STATE
	MO
DISTRICT	SHEET NO.
	2
COUNTY	
JOB NO.	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REDECK02_rehab_details Guidance & Alternate Details

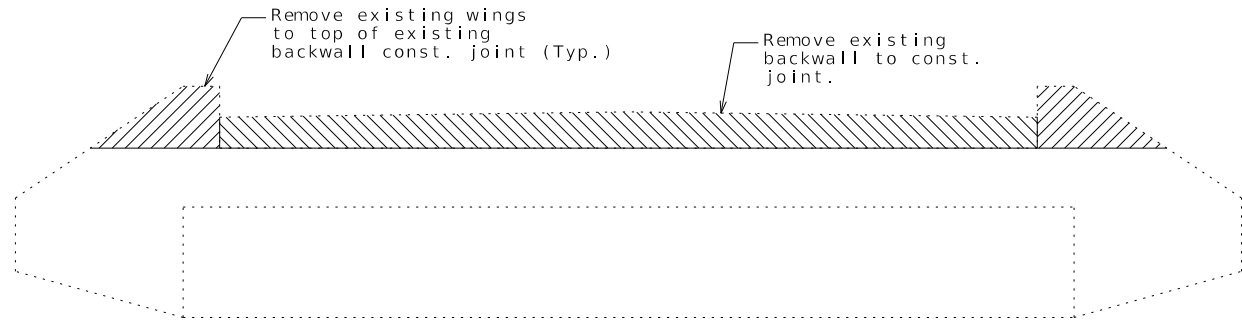
Standard Drawing Guidance (do not show on plans):

Some notes on the standard redecking template drawings are not shown in EPG 751.50 Standard Detailing Notes.

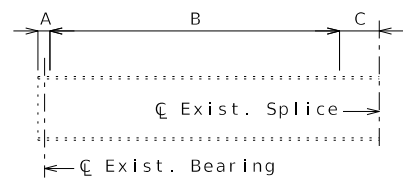
Remove details that do not apply.

Check slab pouring sequencing and revise notes as required.

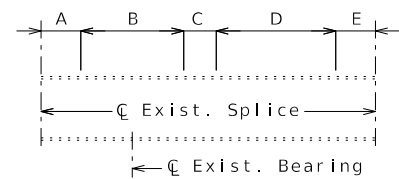
Including alternate pour sequences is per approval of Structural Project Manager or Liaison.



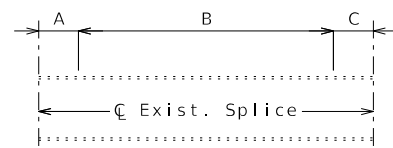
DETAILS OF CONCRETE REMOVAL AT END BENTS



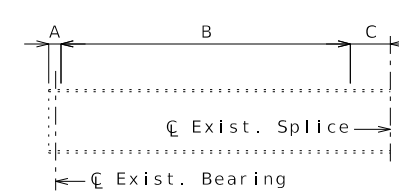
ELEVATION SHOWING SHEAR CONNECTOR SPACING FOR END BEAMS



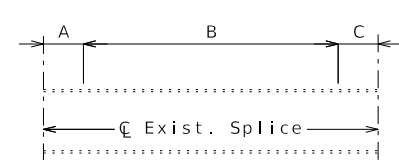
ELEVATION SHOWING SHEAR CONNECTOR SPACING FOR COMBINED BEARING & MID SPAN BEAMS



ELEVATION SHOWING SHEAR CONNECTOR SPACING FOR INT. BENT BEARING BEAMS



ELEVATION SHOWING SHEAR CONNECTOR SPACING FOR END BEAMS

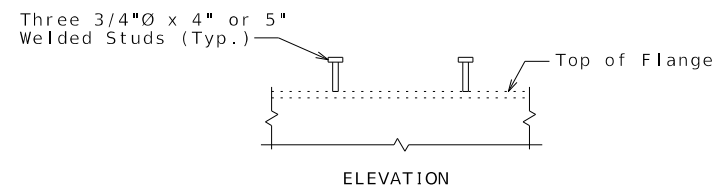


ELEVATION SHOWING SHEAR CONNECTOR SPACING FOR MID SPAN & BEARING BEAMS

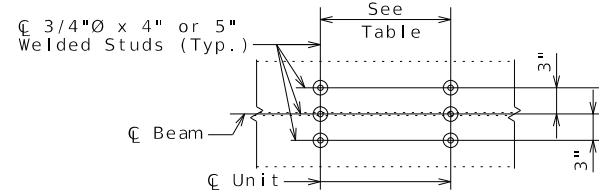
TABLE SHOWING SHEAR CONNECTOR UNIT SPACING						
Beam	S.C. per unit	A	B	C	D	E
End Beam (Spans 1-2 & 5-4)	x	__"±	__ Units @ __" cts.	__"±	--	--
Brg. Beam (Bent 2 & Span 2-3) & Brg. Beam (Bent 4 & Span 4-3)	x	__"±	__ Units @ __" cts.	__"±	__ Units @ __" cts.	__"±
Brg. Beam (Bent 3)	x	__"±	__ Units @ __" cts.	__"±	--	--
Total shear connectors required						xxx

TABLE SHOWING SHEAR CONNECTOR UNIT SPACING				
Beam	S.C. per unit	A	B	C
End Beam (SpanS 1-2 & 3-4)	x	__"±	__ Units @ __" cts.	__"±
Brg. Beam (Bents 2 & 3)	x	__"±	__ Units @ __" cts.	__"±
Mid Span (Span 2-3)	x	__"±	__ Units @ __" cts.	__"±
Total shear connectors required				xxx

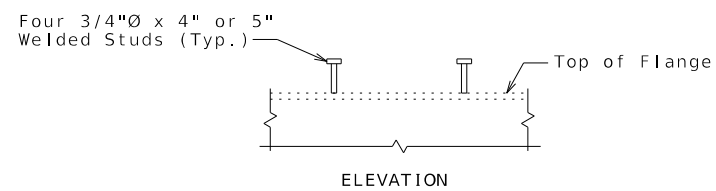
CONTINUOUS SPANS



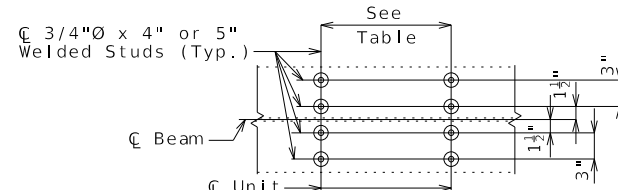
ELEVATION



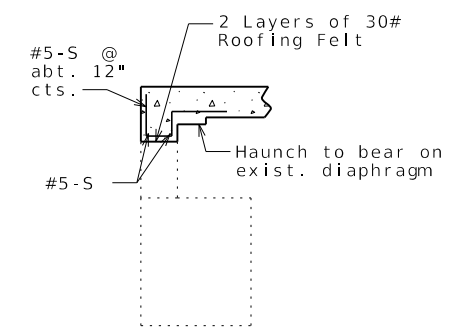
PLAN OF SHEAR CONN. (3 PER UNIT)



ELEVATION



PLAN OF SHEAR CONN. (4 PER UNIT)



PART SECTION THRU SLAB AT END BENT NO. 1

Use when replacing expansion joint with sliding slab.