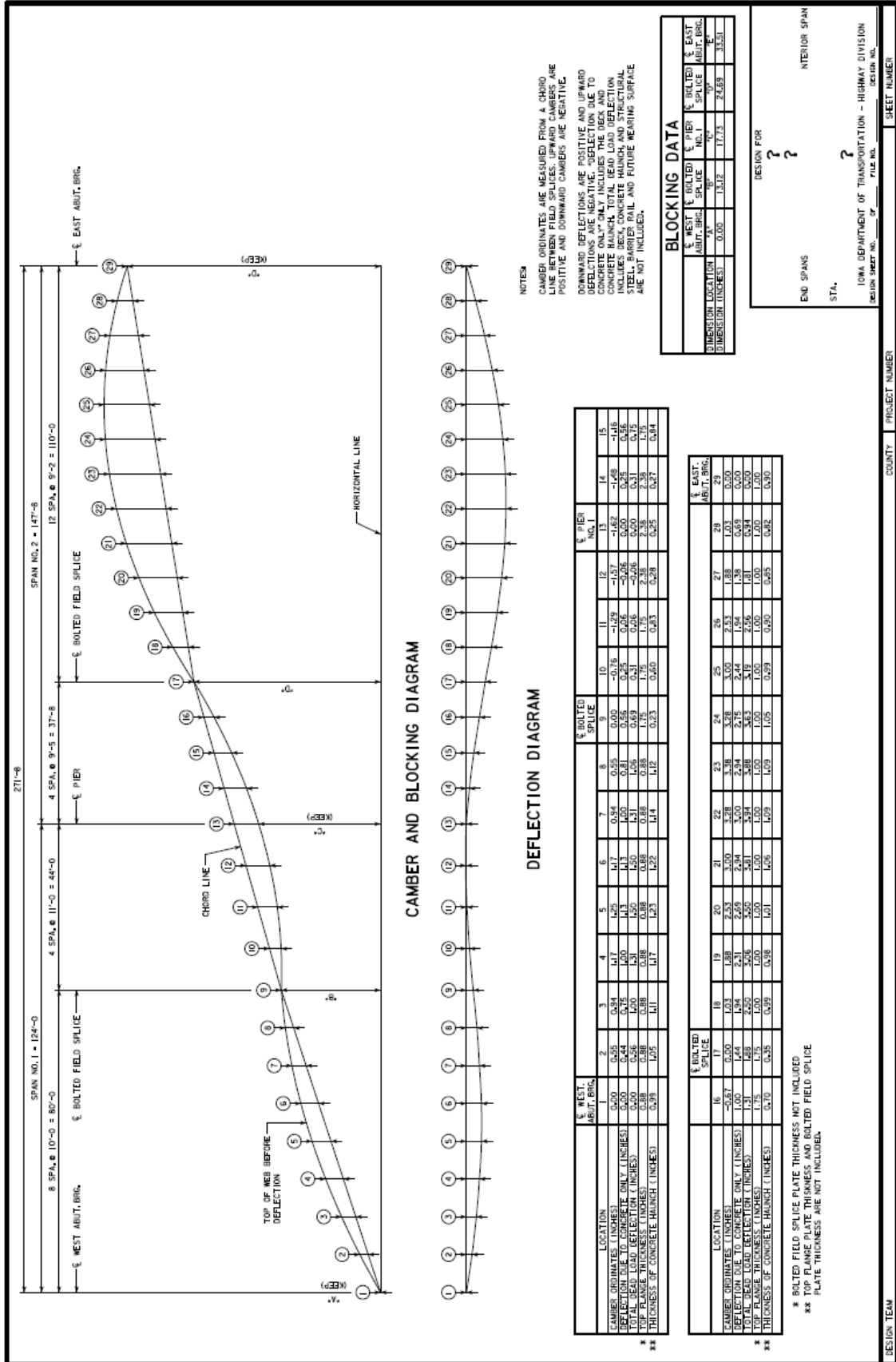


C5.3 Haunches

C5.3.3.2 Detailing

01 July 2015 ~ Revised Haunch Policies

The example diagrams shown below are for a two-span CWPG bridge. The designer should develop the diagrams using spacing intervals consistent with the intervals of the “Top of Slab Elevations” view for the bridge.



NOTES
 CAMBER ORDINATES ARE MEASURED FROM A CHORD
 BETWEEN THE ABUTMENTS. UPWARD DEFLECTIONS ARE
 POSITIVE AND DOWNWARD CAMBERS ARE NEGATIVE.
 DOWNWARD DEFLECTIONS ARE POSITIVE AND UPWARD
 DEFLECTIONS ARE NEGATIVE. DEFLECTION DUE TO
 DEFLECTIONS IN THE MAIN MEMBERS OF THE BRIDGE
 CONCRETE HAUNCH, TOTAL DEAD LOAD DEFLECTION
 INCLUDES BECA, CONCRETE HAUNCH AND STRUCTURAL
 STEEL, BARRIER RAIL AND FUTURE WEARING SURFACE
 ARE NOT INCLUDED.

BLOCKING DATA

DIMENSION LOCATION (DIMENSION IN INCHES)	WEST ABUT. BRG.		PIER NO. 1		PIER NO. 2		PIER NO. 3		EAST ABUT. BRG.	
	"N"	"S"	"N"	"S"	"N"	"S"	"N"	"S"	"N"	"S"
	0.00		13.17	17.73	2.659	3.531				

DESIGN FOR ? ?
 END SPANS ? ?
 STA. ? ?
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
 DESIGN SHEET NO. _____ OF _____ FILE NO. _____ SECTION NO. _____
 COUNTY _____ PROJECT NUMBER _____ SHEET NUMBER _____

LOCATION	WEST ABUT. BRG.		PIER NO. 1		PIER NO. 2		PIER NO. 3		EAST ABUT. BRG.					
	"N"	"S"	"N"	"S"	"N"	"S"	"N"	"S"	"N"	"S"				
CAMBER ORDINATES (INCHES)	0.00	0.56	1.17	1.26	1.17	0.94	0.55	0.00	-0.76	-1.29	-1.57	-1.62	-1.28	-1.16
DEFLECTION DUE TO CONCRETE ONLY (INCHES)	0.00	0.44	0.75	0.75	0.60	0.43	0.21	0.00	-0.26	-0.56	-0.86	-0.96	-0.66	-0.56
TOTAL DEAD LOAD DEFLECTION (INCHES)	0.00	0.66	1.20	1.20	1.00	0.81	0.59	0.21	0.26	0.26	0.26	0.26	0.20	0.21
TOP PLATE THICKNESS (INCHES)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
THICKNESS OF CONCRETE HAUNCH (INCHES)	0.79	1.22	1.11	1.22	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11

LOCATION	WEST ABUT. BRG.		PIER NO. 1		PIER NO. 2		PIER NO. 3		EAST ABUT. BRG.				
	"N"	"S"	"N"	"S"	"N"	"S"	"N"	"S"	"N"	"S"			
CAMBER ORDINATES (INCHES)	-0.67	0.00	1.03	1.48	2.33	3.50	4.78	5.48	5.00	2.53	1.68	1.03	0.00
DEFLECTION DUE TO CONCRETE ONLY (INCHES)	1.00	1.44	1.94	2.31	2.69	2.94	2.94	2.84	2.75	2.44	1.94	1.38	0.69
TOTAL DEAD LOAD DEFLECTION (INCHES)	1.31	1.68	2.60	3.06	3.41	3.51	3.51	3.41	3.41	2.56	1.81	1.03	0.60
TOP PLATE THICKNESS (INCHES)	0.75	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
THICKNESS OF CONCRETE HAUNCH (INCHES)	0.70	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82

* BOLTED FIELD SPLICE PLATE THICKNESS NOT INCLUDED
 ** PLATE THICKNESS ARE NOT INCLUDED.