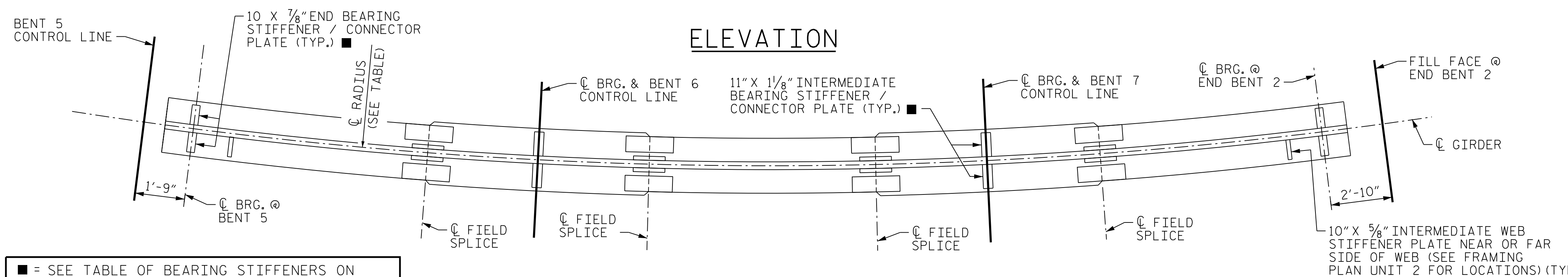


- NOTES**
- CHARPY V-NOTCH TESTS ARE REQUIRED FOR ALL TOP OR BOTTOM FLANGE PLATES WHICH FALL WITHIN THESE LIMITS, ALL WEB PLATES AND ALL SPLICE PLATES. IF A PERMITTED SHOP FLANGE SPLICE IS NOT USED, CHARPY V-NOTCH TESTS WILL BE REQUIRED FOR THE ENTIRE FLANGE PLATE. FOR CHARPY V-NOTCH TESTS, SEE ARTICLE 1072-7 OF THE STANDARD SPECIFICATIONS.
 - NO WELDING OF FORMS OR FALSEWORK TO THE TOP FLANGE WILL BE PERMITTED IN THIS REGION.
 - DIMENSIONS ARE HORIZONTAL ARC DIMENSIONS ALONG THE C OF GIRDER. NO CORRECTIONS HAVE BEEN MADE TO ADJUST FOR THE DISTANCE ALONG THE GRADE.
 - FOR SHEAR CONNECTOR TRANSVERSE SPACING, SEE "STRUCTURAL STEEL DETAILS" SHEET.
 - FOR CHARPY V-NOTCH TEST, SEE SPECIAL PROVISIONS.
 - SEE SHEET "FRAMING PLAN - UNIT 2" FOR FIELD SPLICE TYPES.



GIRDER FLANGE WIDTHS						
GIRDER	FLANGE	W1	W2	W3	W4	W5
1, 2 & 3	TOP	20"	20"	20"	22"	22"
	BOTTOM	22"	24"	22"	26"	22"
4	TOP	22"	22"	20"	24"	22"
	BOTTOM	24"	28"	24"	30"	24"

PLAN OF BOTTOM FLANGE

GIRDER DIMENSIONS																	
GIRDER	C RADIUS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
1	2298'-0"	174'-6 ³ / ₄ "	227'-9 ³ / ₁₆ "	182'-4 ³ / ₄ "	118'-7 ³ / ₁₆ "	55'-11 ⁹ / ₁₆ "	56'-5 ¹ / ₂ "	114'-10 ³ / ₁₆ "	56'-5 ¹ / ₂ "	57'-5 ³ / ₈ "	124'-11 ³ / ₈ "	34'-11 ⁹ / ₁₆ "	35'-5 ¹ / ₂ "	34'-5 ¹ / ₂ "	35'-5 ³ / ₈ "	112'-5 ¹ / ₁₆ "	113'-10 ⁷ / ₈ "
2	2310'-0"	175'-5 ¹³ / ₁₆ "	229'-0 ¹ / ₈ "	183'-4 ⁵ / ₁₆ "	119'-2 ³ / ₄ "	56'-3 ¹ / ₁₆ "	56'-9 ¹ / ₁₆ "	115'-6"	56'-9 ¹ / ₁₆ "	57'-9"	125'-7 ⁵ / ₁₆ "	35'-3 ¹ / ₁₆ "	35'-9 ¹ / ₁₆ "	34'-9 ¹ / ₁₆ "	35'-9"	113'-0 ¹ / ₈ "	114'-6 ¹ / ₁₆ "
3	2322'-0"	176'-4 ¹³ / ₁₆ "	230'-2 ³ / ₈ "	184'-3 ¹⁵ / ₁₆ "	119'-10 ¹ / ₄ "	56'-6 ⁹ / ₁₆ "	57'-0 ⁹ / ₁₆ "	116'-1 ¹ / ₄ "	57'-0 ⁹ / ₁₆ "	58'-0 ⁵ / ₈ "	126'-3 ⁵ / ₁₆ "	35'-6 ¹ / ₁₆ "	36'-0 ⁹ / ₁₆ "	35'-0 ⁹ / ₁₆ "	36'-0 ⁵ / ₈ "	113'-7 ¹ / ₈ "	115'-1 ³ / ₁₆ "
4	2334'-0"	177'-3 ⁷ / ₈ "	231'-4 ⁵ / ₈ "	185'-3 ³ / ₁₆ "	120'-5 ¹ / ₁₆ "	56'-10 ¹ / ₁₆ "	57'-4 ¹ / ₈ "	116'-8 ³ / ₈ "	57'-4 ¹ / ₈ "	58'-4 ³ / ₁₆ "	126'-11 ³ / ₈ "	35'-10 ¹ / ₁₆ "	36'-4 ¹ / ₈ "	35'-4 ¹ / ₈ "	36'-4 ³ / ₁₆ "	114'-2 ³ / ₁₆ "	115'-8 ⁵ / ₁₆ "

LIMITS OF TENSION FLANGES FOR CHARPY V-NOTCH TESTS								
GIRDER	T1	T2	T3	T4	T5	T6	T7	T8
1	72'-0"	68'-0"	74'-0"	74'-0"	37'-7"	40'-0"	41'-10"	39'-5"
2	67'-0"	64'-0"	68'-0"	69'-0"	39'-6"	41'-0"	43'-0"	41'-4"
3	69'-0"	66'-0"	70'-0"	71'-0"	38'-5"	41'-0"	43'-2"	41'-4"
4	75'-0"	70'-0"	76'-0"	76'-0"	38'-4"	41'-0"	43'-4"	40'-4"

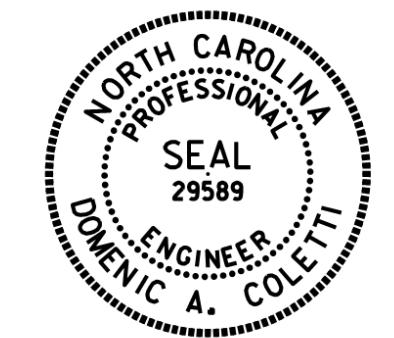
STUD SPACING DIMENSIONS																	
GIRDER	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17
1	16 SPA. @ 1'-2"	11"	58 SPA. @ 1'-8"	2'-4 ³ / ₁₆ "	2'-2 ⁹ / ₁₆ "	72 SPA. @ 1'-6"	2'-2 ⁹ / ₁₆ "	2'-0 ³ / ₈ "	70 SPA. @ 1'-7"	2'-0 ³ / ₈ "	2'-2 ⁷ / ₁₆ "	73 SPA. @ 1'-6"	2'-2 ⁷ / ₁₆ "	2'-1 ¹ / ₁₆ "	62 SPA. @ 1'-8"	10"	16 SPA. @ 1'-2"
2	56 SPA. @ 1'-4"	1'-1"	33 SPA. @ 1'-3"	2'-2 ¹ / ₁₆ "	2'-1 ⁹ / ₁₆ "	87 SPA. @ 1'-3"	2'-1 ⁹ / ₁₆ "	2'-4"	70 SPA. @ 1'-7"	2'-4"	1'-11"	83 SPA. @ 1'-4"	1'-11"	1'-11 ⁵ / ₁₆ "	37 SPA. @ 1'-3"	11"	54 SPA. @ 1'-5"
3	56 SPA. @ 1'-4"	1'-1"	33 SPA. @ 1'-3"	2'-10 ¹ / ₄ "	2'-5 ¹ / ₁₆ "	87 SPA. @ 1'-3"	2'-5 ¹ / ₁₆ "	2'-7 ⁵ / ₈ "	70 SPA. @ 1'-7"	2'-7 ⁵ / ₈ "	2'-2 ⁵ / ₈ "	83 SPA. @ 1'-4"	2'-2 ⁵ / ₈ "	2'-5 ⁵ / ₁₆ "	37 SPA. @ 1'-3"	1'-1"	54 SPA. @ 1'-5"
4	16 SPA. @ 1'-2"	11"	59 SPA. @ 1'-8"	2'-6 ¹ / ₁₆ "	2'-4 ¹ / ₈ "	73 SPA. @ 1'-6"	2'-4 ¹ / ₈ "	2'-1 ¹ / ₁₆ "	71 SPA. @ 1'-7"	2'-1 ¹ / ₁₆ "	2'-4 ³ / ₁₆ "	74 SPA. @ 1'-6"	2'-4 ³ / ₁₆ "	2'-5 ⁵ / ₁₆ "	63 SPA. @ 1'-8"	10"	16 SPA. @ 1'-2"

PROJECT NO. U-2579AB
 FORSYTH COUNTY
 STATION: 58+33.94 -Y15FLYCA-

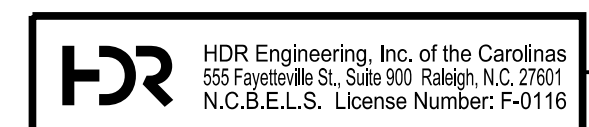
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE GIRDER DETAILS UNIT 2

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.	
1	--	--	3	--	--	TOTAL SHEETS 129	
2	--	--	4	--	--		



Dominic A. Coletti 10/15/2021



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DES BY: M. NEHEISEL	DATE: 07/19	DWG BY: B. PETERSON	DATE: 07/19
DES CHK: G. SCHMITZ	DATE: 07/19	CHK BY: G. SCHMITZ	DATE: 10/19

PLOT DRIVER: NCDOT_pdf_color_eng-50.ppt
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 DATE: 10/14/2021
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