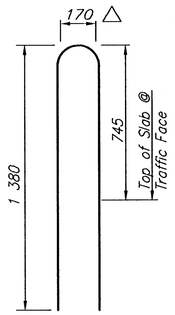
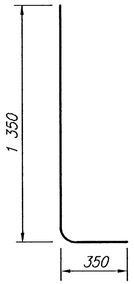
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87 N-0088-01	1999	19	38

△ Nonstandard hook
Plus 0, Minus 10 mm



R1



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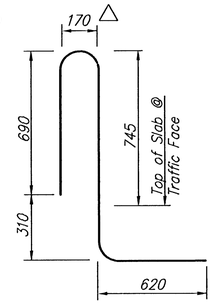

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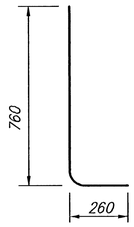

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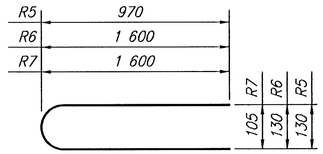
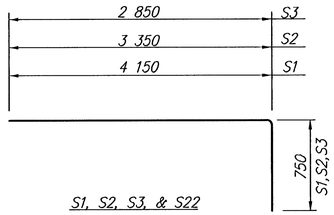
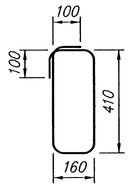


R5, R6 & R7



S1, S2, S3, & S22



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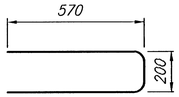

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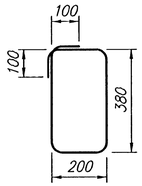

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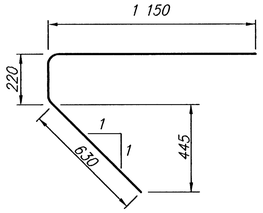

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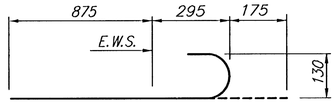

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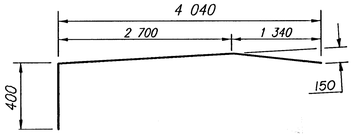

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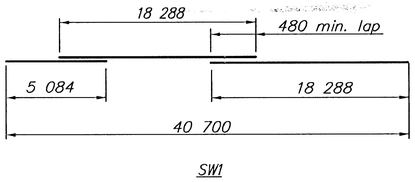

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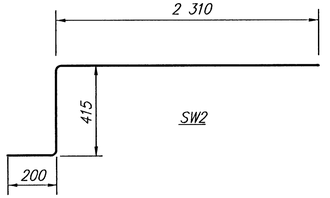
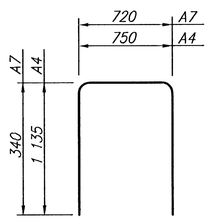
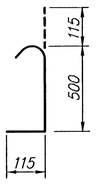


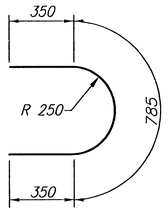
SW2



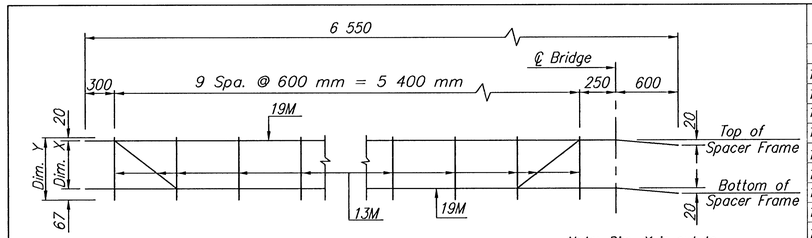
A4, A7 & PB1



PW3

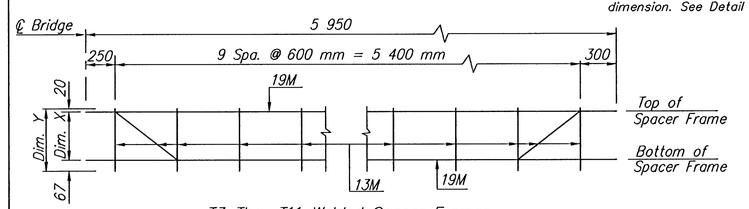


PW4



T12 Thru T20 Welded Spacer Frames

Note: Dim. X is out to out and is an exact dimension. See Detail A.

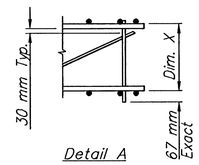


T3 Thru T11 Welded Spacer Frames

SPACER FRAMES
(Epoxy Coated)

Mark	No. Ea.	Dim. X	Dim. Y	Wt. (Each)(kg)	
T3, T12	8	231	318	31.03	33.71
T4, T13	4	232	319	31.04	33.72
T5, T14	4	239	326	31.12	33.80
T6, T15	4	254	341	31.28	33.96
T7, T16	4	277	364	31.53	34.21
T8, T17	4	307	394	31.85	34.53
T9, T18	4	344	431	32.25	34.93
T10, T19	4	389	476	32.75	35.43
T11, T20	4	442	529	33.33	36.01

Mass of spacer frames included in the mass of reinforcing steel.



Detail A

BILL OF REINFORCING STEEL
Epoxy Coated – Grade 420

	Straight Bars				Bent Bars			
	Mark	Size	Number	Length	Mark	Size	Number	Length
SUPERSTRUCTURE – Abutment – Deck – Rail	S4	32	52	16 900	S1	25	52	4 900
	S5	32	44	9 500	S2	25	44	4 100
	S6	32	44	4 300	S3	25	44	3 600
	S7	32	44	12 650				
	S8	32	32	9 550	R1	22	24	2 830
	S12	32	22	16 600	R2	22	4	1 700
					R3	22	220	2 380
	S9	29	32	7 200				
	S10	29	32	5 100	A2	16	106	1 190
	S13	29	16	9 600	A11	16	16	4 480
	S14	29	16	8 400	R5	16	8	1 990
	S15	29	16	6 000	R6	16	8	3 250
					SW2	16	520	2 925
	A1	25	16	18 000				
	A8	25	8	2 570	A4	13	228	2 890
					A5	13	106	1 850
	R11	19	24	1 620	A7	13	28	1 430
	R12	19	144	2 900	R4	13	220	1 020
					R7	13	4	3 240
	A3	16	20	12 000				
	A9	16	20	8 070	R8	10	376	1 340
	SW1	16	16	*	R9	10	104	1 340
	T1	16	111	11 890	R10	10	52	1 360
	S11	13	32	7 000	T3–T20			*
	A6	13	2	12 000				
	A10	13	2	4 950				
	SC1	13	78	2 000				
	T2	10	78	11 890				
Pier Head	PB1	16	6	11 890				
	PB2	13	4	11 890				

Non–Epoxy

SUBSTRUCTURE – Pier Wall	PW1	13	232	6 400	PW3	13	252	*
	PW2	13	52	10 960	PW4	13	52	1 490

* See Bending Diagrams

BENDING DIAGRAMS

(All dimensions are out to out of bars.)

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
BR. NO. 530400870GC1020 STA. 1+450.20
BILL OF REINFORCING STEEL
& BENDING DIAGRAMS
(Eastern Street over Gypsum Creek)
PROJ. NO. 87 N-0088-01 SEDGWICK CO.

FHWA APPROVAL				APP'D	
DESIGNED	PAF	DETAILED	DPG	QUANTITIES	MDK
DESIGN CK.	MDK	DETAIL CK.	MDK	QUAN.CK.	SDH

CADD
CADD CK.

h:\CIVIL\95046\DETAILS\95460R1N.DWG Thu Jan 28 12:00:40 1999 Plotted by DPG