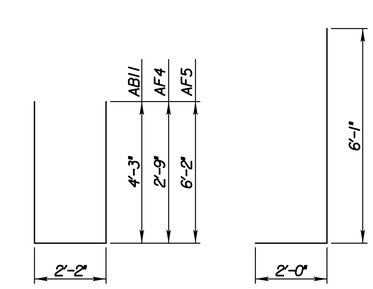
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-85066	2014	122	388

REINFORCING STEEL

		Straight Bars				Bent Bars			
		Mark	Size	Number	Length	Mark	Size	Number	Length
Abutment No. 1	Superstructure (Epoxy)	AB1	#8	4	12'-3"	AB11	#5	14	10'-8"
		AB2	#6	2	3'-3"	AB12	#4	10	3'-10"
		AB3	#6	2	3'-10"	AB13	#5	4	6'-5"
		AB4	#6	2	3'-8"	AB6	#6	2	4'-4"
		AB5	#6	2	4'-9"	AB7	#6	2	4'-10"
		AB8	#6	4	12'-3"				
		AB9	#6	4	3'-0"				
		AB10	#5	1	11'-0"				
		AW1	#7	2	13'-5"	AW2	#6	7	10'-0"
		AW3	#6	8	13'-5"				
		AW4	#5	24	4'-4"				
		AW5	#5	4	3'-4"				
	Substructure (Non-Epoxy)	AF1	#7	4	12'-3"	AF4	#5	18	7'-8"
		AF2	#6	4	12'-3"	AF5	#5	14	14'-6"
		AF3	#4	8	12'-3"	AF7	#4	8	Varies
		AF6	#4	8	5'-5"	AF8	#6	4	6'-9"
						AF9	#4	4	8'-1"
Abutment No. 2	Superstructure (Epoxy)	AB1	#8	4	12'-3"	AB11	#5	14	10'-8"
		AB2	#6	2	3'-3"	AB12	#4	10	3'-10"
		AB3	#6	2	3'-10"	AB13	#5	4	6'-5"
		AB4	#6	2	3'-8"	AB6	#6	2	4'-4"
		AB5	#6	2	4'-9"	AB7	#6	2	4'-10"
		AB8	#6	4	12'-3"				
		AB9	#6	4	3'-0"				
		AB10	#5	1	11'-0"				
		AW1	#7	2	13'-5"	AW2	#6	7	10'-0"
		AW3	#6	8	13'-5"				
		AW4	#5	24	4'-4"				
		AW5	#5	4	3'-4"				
	Substructure (Non-Epoxy)	AF1	#7	4	12'-3"	AF4	#5	18	7'-8"
		AF2	#6	4	12'-3"	AF5	#5	14	14'-6"
		AF3	#4	8	12'-3"	AF7	#4	8	Varies
		AF6	#4	8	5'-5"	AF8	#6	4	6'-9"
						AF9	#4	4	8'-1"
Pier No. 1	Substructure (Non-Epoxy)	PB2	#9	6	11'-6"	PB1	#5	30	7'-8"
		PB3	#9	8	13'-6"	PB6	#6	6	11'-8"
		PB4	#6	2	13'-0"	PB7	#6	5	11'-6"
		PB5	#6	10	12'-6"	PB10	#4	12	3'-8"
		PB8	#6	24	4'-0"				
		PB9	#4	14	2'-9"	PS1	3/8	1	17'-6"
		PC1	#9	16	20'-9"				
		PF3	#8	19	5'-0"	PF1	#8	31	12'-4"
		PF4	#8	12	8'-0"	PF2	#8	20	15'-4"
						PF5	#9	16	10'-6"
Pier No. 2	Substructure (Non-Epoxy)	PB2	#9	6	11'-6"	PB1	#5	30	7'-8"
		PB3	#9	8	13'-6"	PB6	#6	6	11'-8"
		PB4	#6	2	13'-0"	PB7	#6	5	11'-6"
		PB5	#6	10	12'-6"	PB10	#4	12	3'-8"
		PB8	#6	24	4'-0"				
		PB9	#4	14	2'-9"	PS1	3/8	1	17'-6"
		PC1	#9	16	20'-9"				
		PF3	#8	19	5'-0"	PF1	#8	31	12'-4"
		PF4	#8	12	8'-0"	PF2	#8	20	15'-4"
						PF5	#9	16	10'-6"

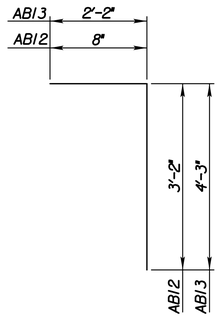
REINFORCING STEEL

		Straight Bars				Bent Bars			
		Mark	Size	Number	Length	Mark	Size	Number	Length
Deck	Superstructure (Epoxy)	S4	#5	8	42'-6"	S1	#6	16	11'-6"
		S5	#6	16	30'-0"	S2	#5	8	25'-4"
		S6	#5	9	57'-0"	S3	#5	9	58'-1"
		S7	#5	8	42'-6"	S10	#5	9	58'-1"
		S8	#5	8	42'-6"	S11	#5	8	25'-4"
		S9	#6	16	30'-0"	S12	#6	16	11'-6"
		S13	#5	11	45'-1"				
		S14	#5	11	50'-1"				
		S15	#5	11	38'-9"				
		S16	#5	11	38'-9"				
		S17	#5	11	43'-9"				
		S18	#5	11	33'-9"				
		S19	#5	11	50'-1"				
		S20	#5	11	45'-1"				
		T1	#4	241	14'-1"				
		T2	#4	241	13'-6"				
Barrier	Superstructure (Epoxy)	R7	#6	24	46'-10"	R2	#5	180	6'-6"
		R8	#5	2	4'-0"	R3	#5	18	7'-6"
		R9	#4	4	47'-8"	R4	#5	160	6'-0"
						R5	#5	38	6'-0"
						R6	#5	8	7'-5"
Pier Diaphragms	Superstructure (Epoxy)	D1	#6	16	3'-6"	D5	#4	24	11'-8"
		D2	#4	24	4'-7"				
		D3	#4	4	11'-10"				
		D4	#8	16	3'-10"				

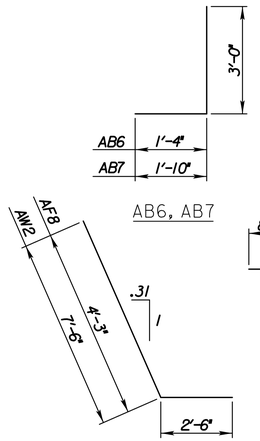


AB11, AF4, AF5

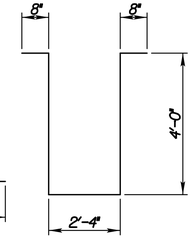
AF9



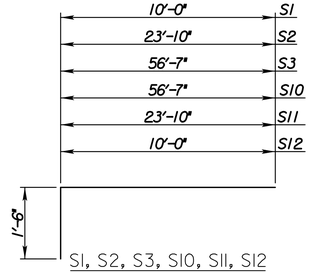
AB12, AB13



AB6, AB7
AF8, AW2

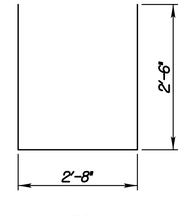


D5



S1, S2, S3, S10, S11, S12

PF5



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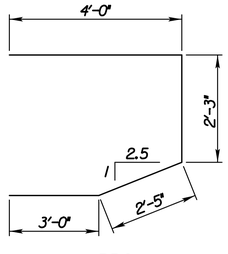

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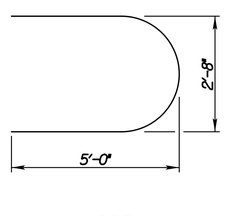

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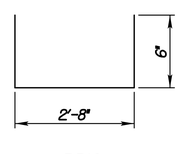

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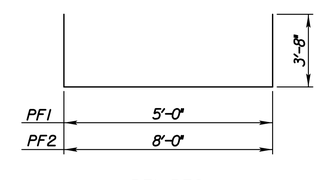
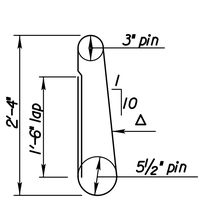
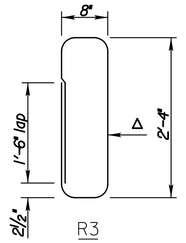


PF1, PF2



R2
Δ Traffic side



R3
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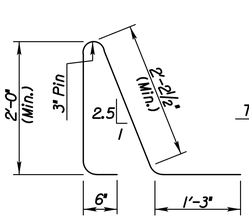

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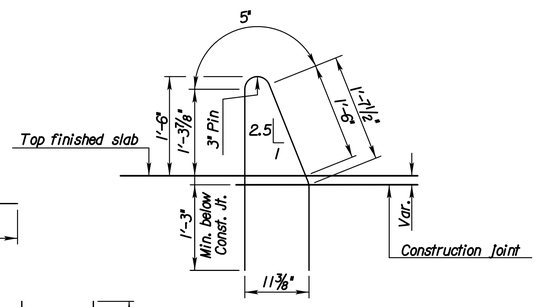
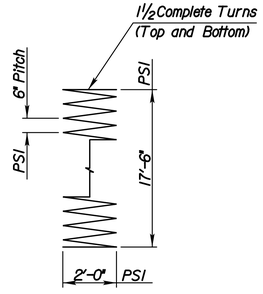
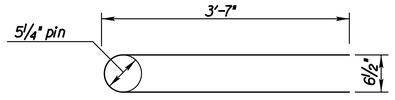


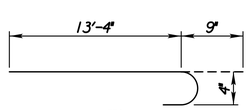
R5



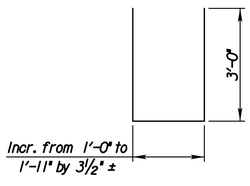
PSI



R6



T1



AF7

BENDING DIAGRAMS
All dimensions are out to out of bars.

Weight of spiral spacer bars are included in the weight of reinforcing steel. Spiral reinforcing shall meet the requirements of either ASTM A615 Gr. 40 or 60, or ASTM A82.

3 spacer bars are required unless spiral diameter is greater than 2'-6" then use 4 spacer bars.

Note: Reinforcing shown for one bridge. Two required.

No.	Revisions	By	Date
1			

BR. NO. 96-87-32.78 (4I2) E.B. STA. 463+49.36
BR. NO. 96-87-32.79 (4I1) W.B. STA. 463+48.72

BILL OF REINFORCING AND BENDING DIAGRAMS
K-96 OVER GREENWICH ROAD

PROJECT NO. 472-85066 SEDGWICK COUNTY

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	C.W.P.J.	Checked by	M.S.N.
Drawn by	C.W.P.J.	Date	Jan. 2014
		Job No.	09521