STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54–87 K–8258–08	2005	124	223

BILL OF REINFORCING STEEL–SUPERSTRUCTURE

Deck, Barrier Rail & Diaphragms

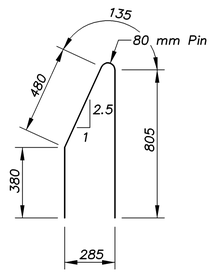
STRAIGHT BARS				BENT BARS			
MARK	SIZE	NO.	LENGTH	MARK	SIZE	NO.	LENGTH
AD1	25	10	11 690	TS3	19	140	5060
AD2	25	10	11 230				
PD1	25	80	1400	AD7	16	232	3040
				AD8	16	20	2240
MD1	22	32	920	AD9	16	6	2410
				AD10	16	4	1970
AD3	19	8	11 000	AD11	16	6	1780
BS1	19	236	15 800	AD12	16	4	1560
MD2	19	36	1600	AS1	16	102	2210
PD2	19	36	1500	AS2	16	40	1610
R1	19	12	15 800	AS3	16	142	1430
TS1	19	288	15 800	R2	16	8	1800
TS2	19	140	11 480	R3	16	197	1870
				R4	16	205	1980
AD4	16	20	10 920	R5	16	203	2190
AD5	16	54	1940	R6	16	203	2540
AD6	16	36	1500				
AS4	16	8	10 920	MD4	13	108	1680
BS2	16	393	12 470	PD7	13	112	4520
BS3	16	393	9380	PD8	13	24	1670
TS4	16	394	13 340				
TS5	16	394	8510				
MD3	13	36	1940				
PD3	13	8	10 590				
PD4	13	108	1940				
PD5	13	8	1450				
PD6	13	8	800				
R7	13	70	12 610				

BILL OF REINFORCING STEEL–SUBSTRUCTURE

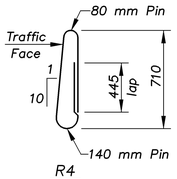
	STRAIGHT BARS				BENT BARS			
	MARK	SIZE	NO.	LENGTH	MARK	SIZE	NO.	LENGTH
Abut. No. 1 Beam	AB3	25	4	11 450	AB1	25	5	11 970
	AB4	25	4	10 990	AB2	25	5	11 510
	AB5	19	116	920	AB8	16	74	2920
					AB9	16	62	2700
	AB6	16	12	10 920				
	AB7	16	2	9290				
Abut. No. 2 Beam	AB3	25	4	11 450	AB1	25	5	11 970
	AB4	25	4	10 990	AB2	25	5	11 510
	AB5	19	116	920	AB8	16	74	2920
					AB9	16	62	2700
	AB6	16	12	10 920				
	AB7	16	2	9290				
Pier No. 1 Beam, Columns & Footings	PB3	25	6	12 560	PB1	25	8	12 840
	PB4	25	6	9470	PB2	25	8	10 170
	PC1	25	70	6340	PC2	25	70	2010
	PB5	19	12	10 720	PB7	19	4	2500
	PB6	19	112	1280				
	PF1	19	160	2300	PB8	16	108	2870
					PB9	16	168	2740
					PB10	16	108	2560
					PB11	16	2	2520
					PS1	10ø	5	—
Pier No. 2 Beam, Columns & Footings	PB3	25	6	12 560	PB1	25	8	12 840
	PB4	25	6	9470	PB2	25	8	10 170
	PC1	25	70	6340	PC2	25	70	2010
	PB5	19	12	10 720	PB7	19	4	2500
	PB6	19	112	1280				
	PF1	19	160	2300	PB8	16	108	2870
					PB9	16	168	2740
					PB10	16	108	2560
					PB11	16	2	2520
					PS1	10ø	5	—

BENDING DIAGRAMS

NOTE: All dimensions are out to out of bars.



R2



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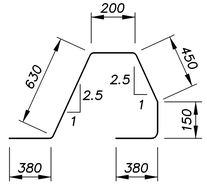
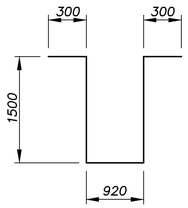
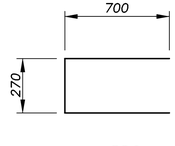


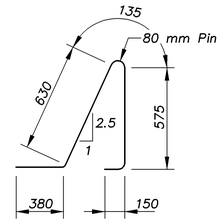
R5



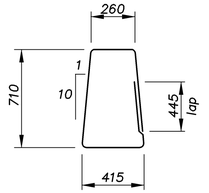
PD7



PD8



R3



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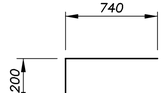

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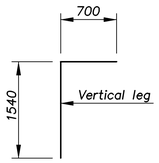

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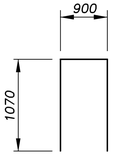

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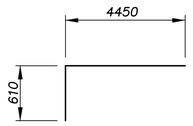
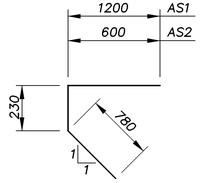
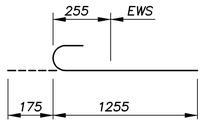


TS3



AS1 & AS2



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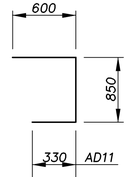
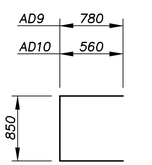
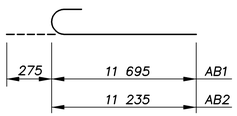


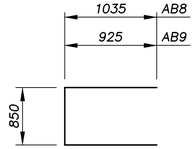
AD11 & AD12



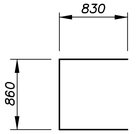
AD9 & AD10



AB1 & AB2



AB8 & AB9



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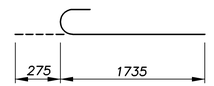
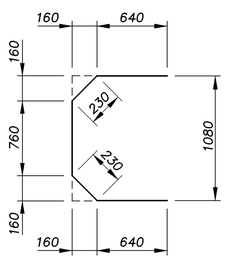


PC2



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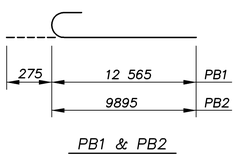
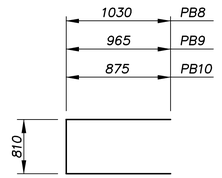
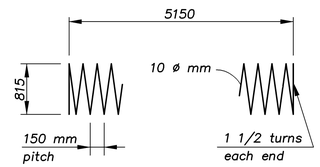


PB1 & PB2



PB8, PB9 & PB10



PS1

NOTE: Weight of spirals are included in the weight of reinforcing and includes the weight of 4 spacer channels @ 1.100 kg. per meter (each) per spiral. The spiral bars shall meet the requirements of either ASTM A–615M (Gr. 300 or Gr. 420) or A–82M. Minimum section modulus of spacer channels is 131 cu. mm.

1:100

EASTERN/REINF

KANSAS DEPARTMENT OF TRANSPORTATION

BR. NO. 54–87–31.55(704) W.B. STA. 4+575.138

BILL OF REINFORCING STEEL

KELLOGG AVENUE OVER EASTERN

Proj. No. 54–87 K–8258–08 SEDGWICK COUNTY

CFS

Cook, Flatt & Strobel ENGINEERS, P.A.

DESIGNED	R.S.C.	SCALE	Varies
DETAILED	T.R.G.	DATE	
QUANTITIES	T.R.G.	SHEET	46 OF 47