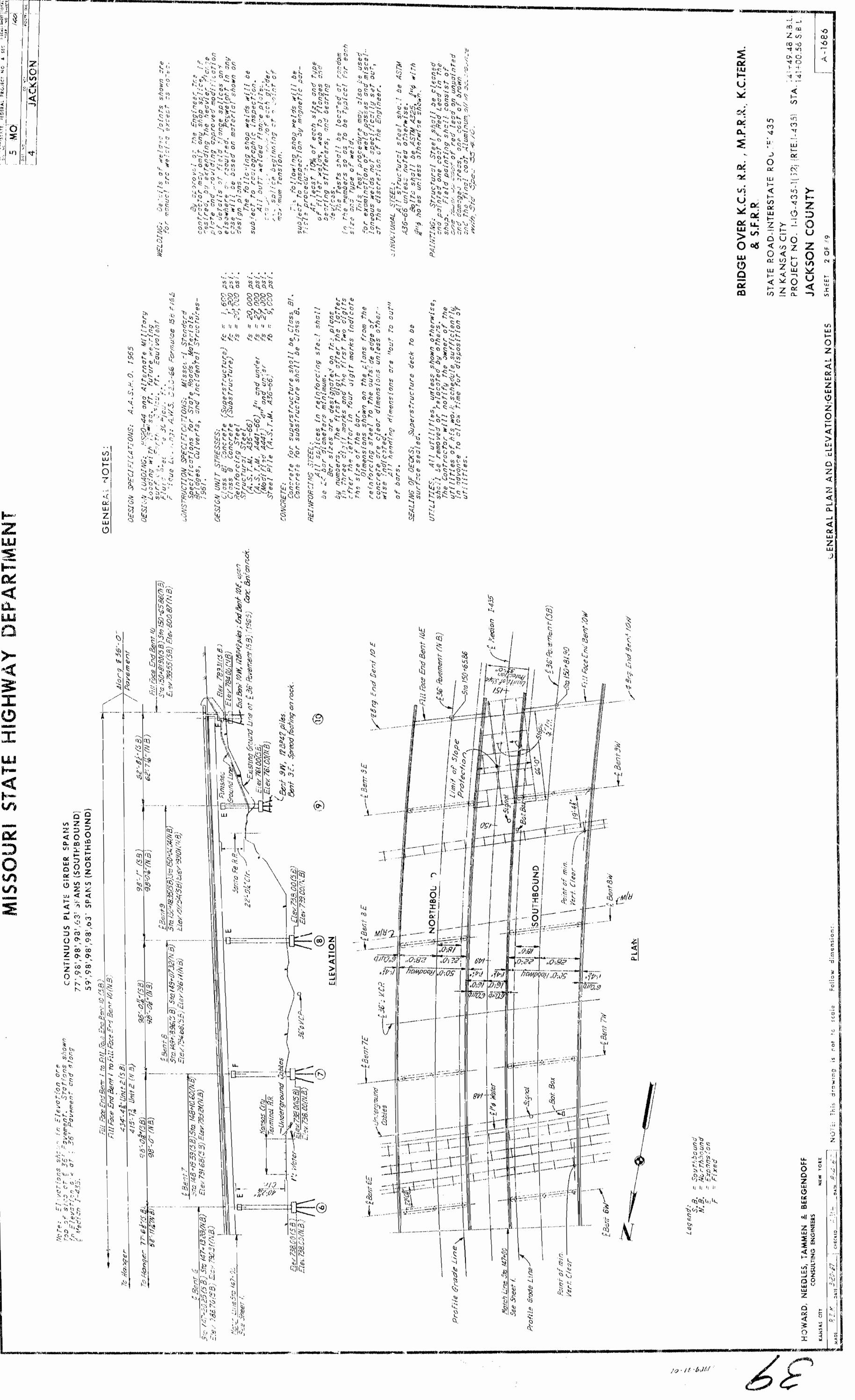


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NORTHB	OUND		UNIT 1 SOU	HBOUND	UNI	T 2 SOUTHBO	UND	
SUPER-	TOTAL	SUB- STRUCTURE	SUPER-	TOTAL	SUB- STRUCTURE	SUPER- STRUCTURE	COTAL	TOTAL
	395	230		230	205		205	1,100
	2,370	819		819	2,922		2,922	6,355
		4,760		4,760	243		243	10,141
	413.3	416.1		415.1	386.5		386.5	1,646.2
610.4	615.7	5.7	788.2	793.9	5.3	540.3	546.1	2,816.0
1.020	308.690	91,650	207,830	359,480	102,450	237,240	339,690	1,351,320
9,040	429,040		754,290	756,290		465,900	465,900	2,396,820
		14,850			10,930			50,650
214	214		378	378		233	233	1.195
328	342	15	1,057	1,083	14	368	882	3,844
								1
						·		

GEND:		
S. Z.	-	Southbound
N.E.	-	Northbaund
E	-	Expansion
Ę	÷	Fixed



A16866, Sht. 9



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8.8.L. 5.8.L. A-1685 141+49.481 141+00.55 580 720 540 , M.P.R.R., K.C.TERM 6 jait 000 1965 ; Tests. ed). STA cuq Stiff fill boulders. WET Drown (STrofifie zna Septembs Sepetration I-IG-435-1(52) (RTE.I-435) 5707 7100 7100 7100 7100 4334 Surfsce ShJIs. Bou Umns off bisks of to drive Peretrat (Blows) RCUTE 85-9 K.R 675.1 1.772 712.1 ×., Standar Standar STATE ROAD-INTERSTATE 729. 000 BRIDGE OVER K.C.S. JACKSON COUNTY & S.F.R.R. in ber the nu 23 Auger 1 <u>6 36 Pavement.</u>) :nches ;el somo dencted 111 IN KANSAS CITY PROJECT NO. 1-1 Wet brown silt scho stringers. sand. 5 +;5 3 OF 49 ciou 305 Note: Eoring consisted o Co. e Sample Number Resistanses failing 30 spiit barre lo l 570 Rois Boulders 06+571 <u>570, 150+63</u> STG. 149+92 Povement. 7000 STEFF Shole. Face End Bent 19 Stc. <u>261 27.</u> 261 27. 36+5+1 SHEET 86-22. STU. <u>86-26.</u> 26, 27. 86-8 674.1 729.1 . . 74:1 <u>86-25,</u> 26' Pt. 570. <u>66-21</u> LANE \mathbf{N} 149+02 86=23. - .50 : cinders **BORINGS-NORTHBOUND** s 510. sand 0. 171 84 148+05 clau shale. Fine AR FILL, and send. Dense cndy 6 Hard <u>کم</u> ~**&**}-00+6\$1 <u>¢ Bent 8</u> Sta. 149+07.32 boring 85-7 $\sqrt{\alpha}$ & Bent 9 STC. 150 12:22 <u>665.1</u> <u>665.1</u> 86-18 Sto. 7:0. 728. <u>Sto. 149+02</u> Pavement. 0 iay.

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FEDERAL PROJECT

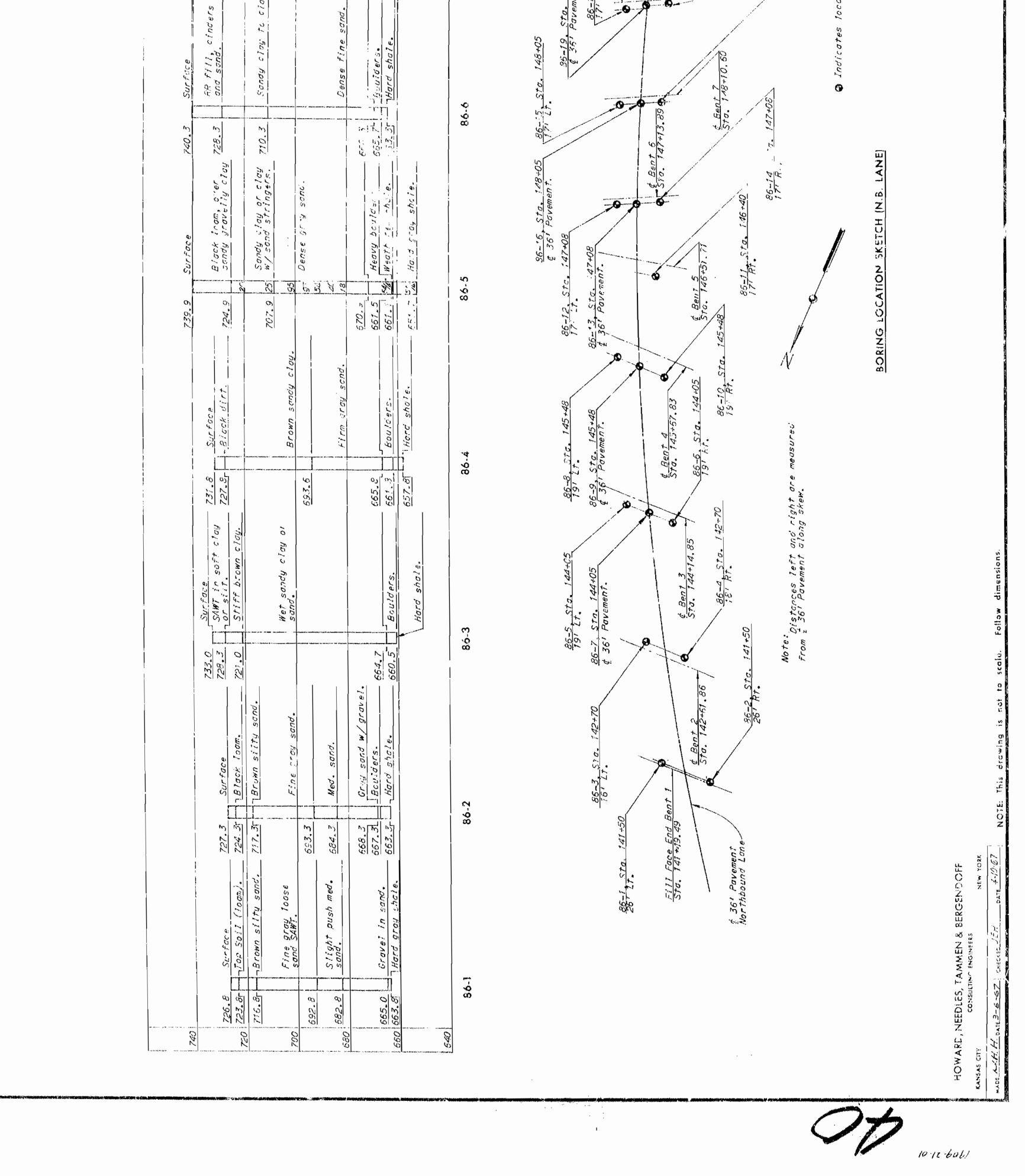
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NO.

JACKSON

<u>724.9</u> <u>2019</u> <u>2019</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u>2010</u> <u></u>	AR fill, cinders and sand.
Sandy Jay or clay W/ sond stringers.	
<u>95</u>	Sandy cloy te clay
	Cense fine sand.
beulds: "	- 15 - 10 - 10 - 10 - 10 - 10 - 10 - 10
<u>et and e.</u>	<u>'Hard shale.</u>
8 6 3 7 8 8 38 53	



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	8 8 3			HOWARD, NEEDLES, TA CONSULTEN RANKAS CITY MADE MAHH DATE J.G. 67

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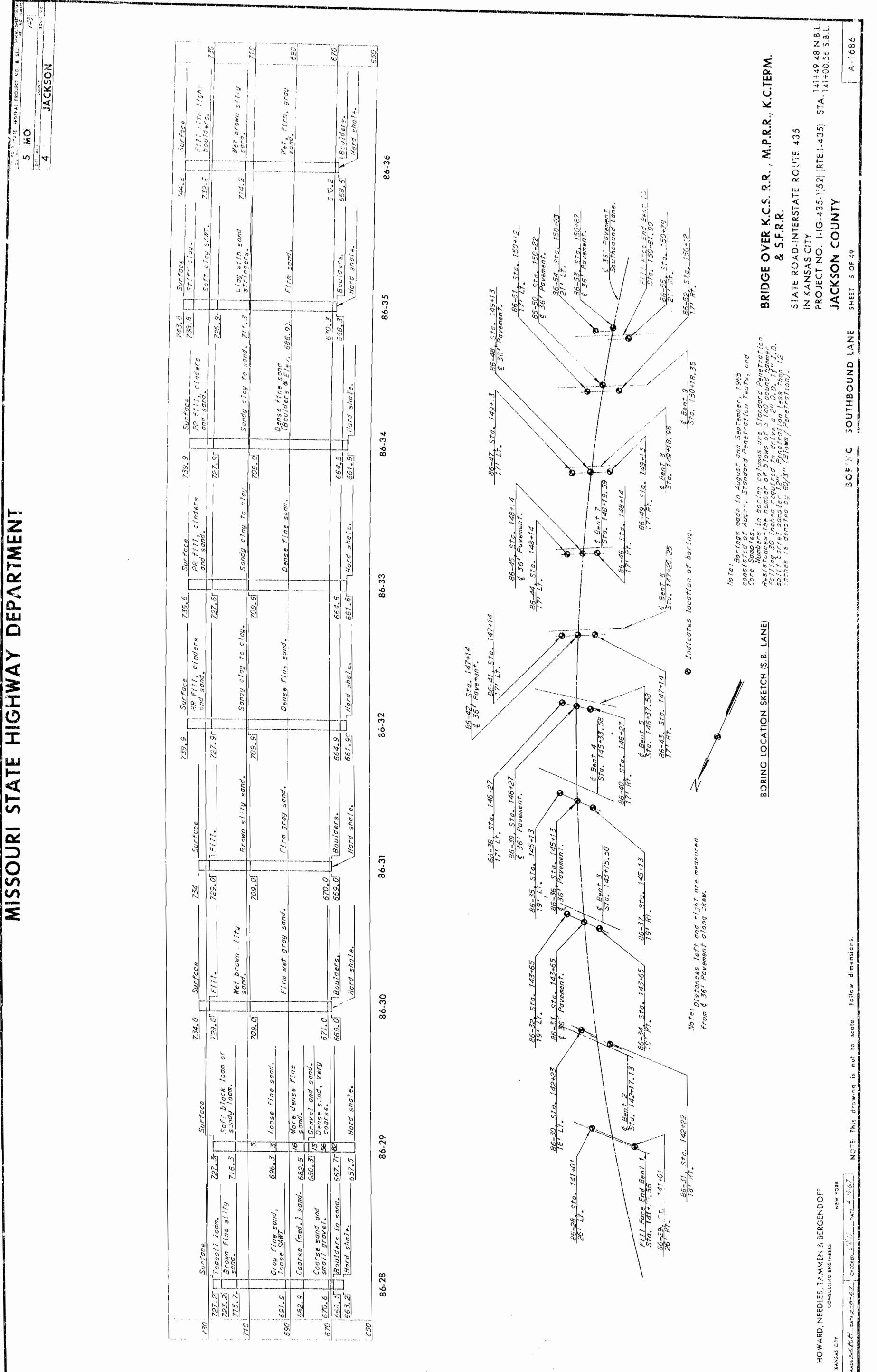
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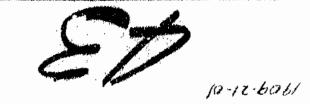
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	d 742.7 Surface 742.7 Surface 734.7 Surface 734.7 Slag). Cinders and 734.7 Gray sriff clay. 704.7 Gray sriff clay. 862.7 Sand. State 673.7 Sand or clay. Hard shale.	86.43	1, red/brown red/brown restone boul- red/brown red/brown restone boul- stone boul- stone boul- stone (Winter- stone (Winter- stone (Winter- ne.	86-53	in August and September, 1965 or, Standard Penetration Tests, and of borings, see Sheer 5. BORINGS-SOUTHBOUND LA

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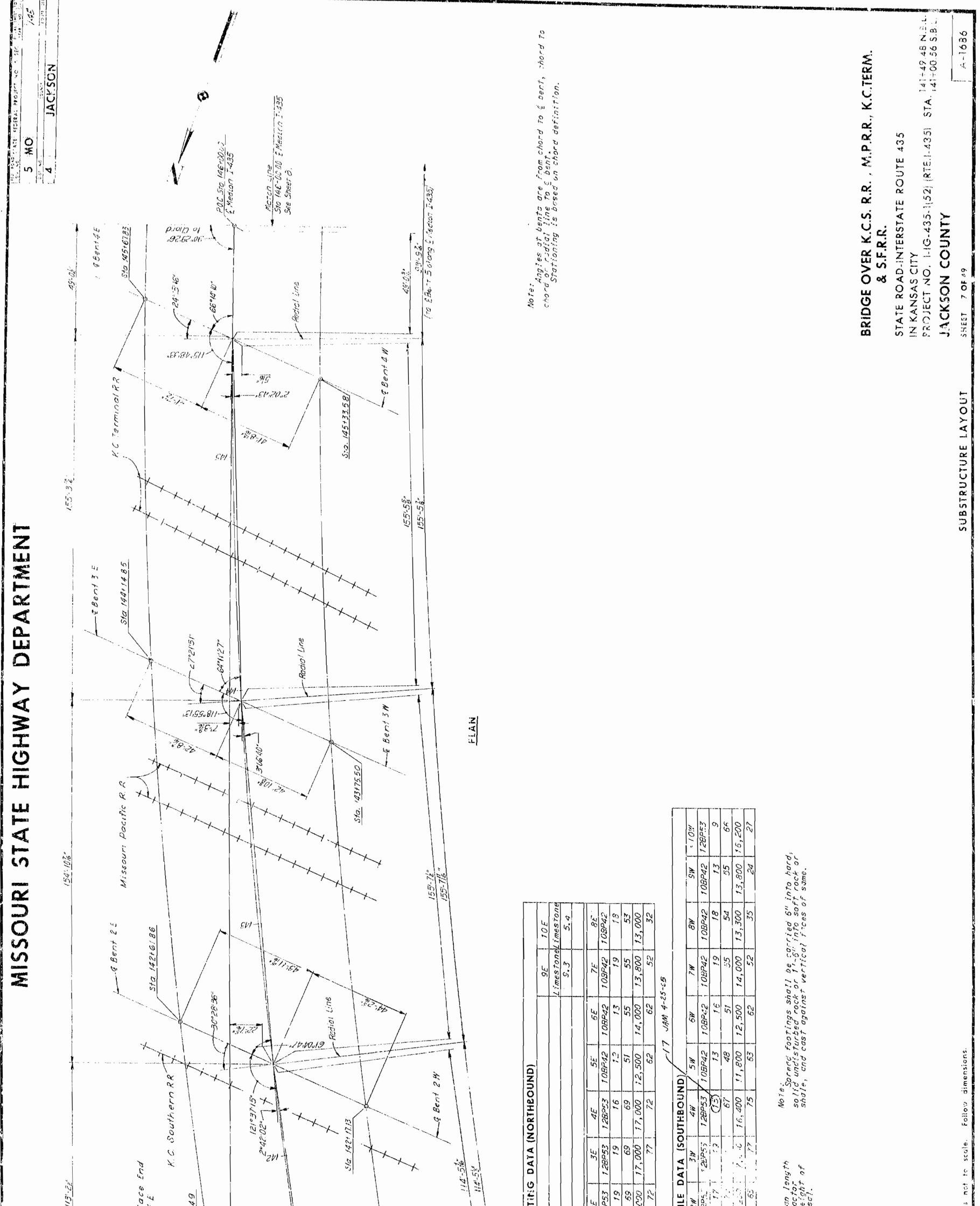
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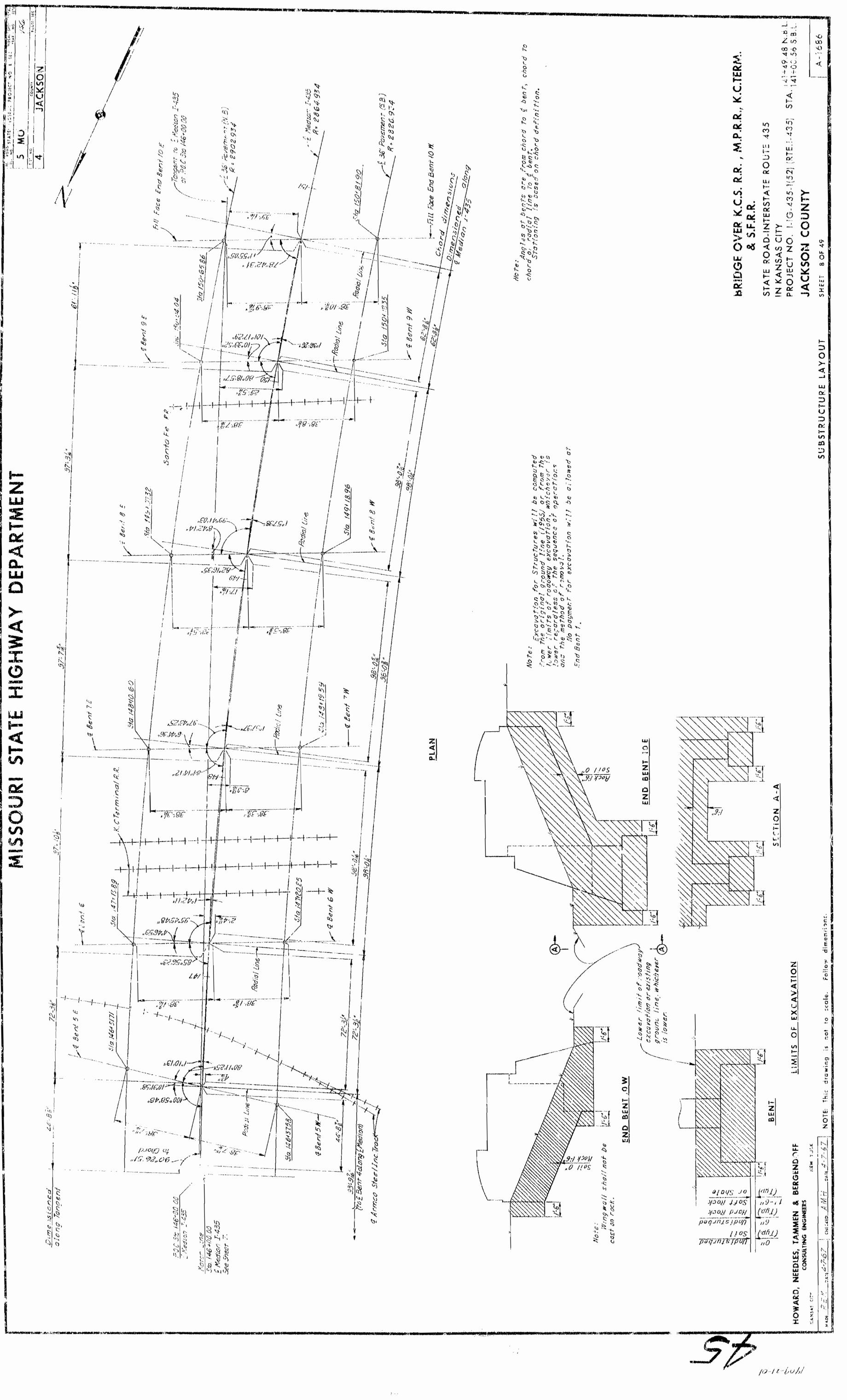
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MISSOU 115'-22'	The The	Sta Harring Sta Harring Sta Harring Sta Harring Sta Harring Sta Harring Bent 24	PILE AND FOOTIN:G DATA (NORTHEOUND) $9E$ $10E$ PILE AND (NORTHEOUND) $9E$ $10E$ $2E$ $2E$ $2E$ $10E$ $2E$ $5E$ $5E$ $5E$ $5E$ $5E$ $5E$ $5E$ $5E$	PILE DATA (SOUTHBOUND) IW ZW ZW ZW SW GW ZW 1W ZW ZW ZW SW GW ZW ZW 1W ZW ZW ZW SW GW ZW ZW 1W ZW ZW ZW SW GW FW ZW 1W ZW ZW ZW SW GW FW FW 11 TZ ZZ ZEP55 128P53 108P42 108P42 19 11 TZ ZZ GT GT FZ 16 19 15 FZ FZ FZ FZ FZ FZ 55 55 15 FZ FZ FZ FZ FZ FZ 55 55 97 FS FZ FZ FZ FZ 52 52 97 FS FZ FZ FZ FZ FZ 52	hammer based on pian length Mofe. Sorera footings shall be carried 5" i Increuse by the factor Increuse by the factor is less than the weight of solid undisturbed rock or 1'-6" into soft is less than the weight of shale, and cast against vertical fices of o to practical rejusal.	
Dirensioned along Tongent	Toncent to 1 Neaton 1.435 or P.O.C. Sta. 146+00 69 cr. P.O.C. Sta. 146+00 69 R = 290 2.934 R = 290 2.934	E Mearon 1.435 E Mearon 1.435 R = 28 64.934 R =		nd Size ing Value Average	Note: Note: Note: Not design bearing volue of piles. 2 and design bearing volue of piles. 2 (N+)2N when the weight of cam (N) is pile (N). All pile Shall be driven t	HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS NEW YOR

Dingestrenden and Start in the second of the		543 14216/ 86 543 14216/ 86 81/16 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10/10 80/10 80/10/10 80/10/10 80	64 78 64 95 108P42 103P42 13 19 13 19 13 19 13 19 13 19 15 55	14,000 13,800 13, 62 52 52 7 JAM 4-25-65 52 10BP&2 10BP&2 10 10BP&2 10BP&2 10 11 16 19 12 500 14,000 12 500 14,000 12 500 14,000 12 52 52 12 52 52 12 52 52 12 500 14,000 12 52 52 12 500 14,000 12 52 52 12 52 52 12 52 52 12 52 52 53 52 52 53 52 52 53 52 52 53 52 52 53 52 52 53 52 52 53 52 52 53 52 52 53 52 52 53 52 52 53 53 55 53 53 55 53 53	
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SSCURI STATE HIGH AIC IION NO. MARK (ENGTH AI NO. NO. NO. NO. NO. NO. NO. NO. NO. NO.	A-1586
	JACKSON COUNTY EDULE SHEET 9 OF 49
Signation All of Alloch Shar Dig Dig 1/2 0 Anx (Encert Hang Location 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 <td< th=""><th>*Bend 15-1407 SUBSTRUCTURE REINFORCING SCH</th></td<>	*Bend 15-1407 SUBSTRUCTURE REINFORCING SCH
	Hocks and bends shall be in accordance with the A.C.I. Manual of Standord Practice for Detailing Reinforced Congrate Structures (ACI-315-65). Two diameter bends shall not be used unless specified in bending diagrams.
BIL OF RENT CS.CGMENT NO. MARK LENGTH HAPE LOCAT SSUTHBOUND 2.5° 2.60 1/3/2 2.60 1/2/2 20 1/3/2 2.60 1/3/2 2.60 1/2/2 21 260 1/2/2 2.61 1/2 1/2/2 2.61 21 260 5'-2 1/2 1/2 1/2 1/2 1/2 260 5'-2 1/2 1/2 1/2 1/2 1/2 1/2 260 5'-2 1/2 1/2 1/2 1/2 1/2 1/2 260 5'-2 1/2 1/2 1/2 1/2 1/2 2 260 1/2 1/2 1/2 1/2 1/2 2 260 1/2 1/2 1/2 1/2 1/2 2 260 1/2 1/2 1/2 1/2 1/2 2 260 1/2 1/2 1/2 1/2	is net to scate. Follow dimensions.

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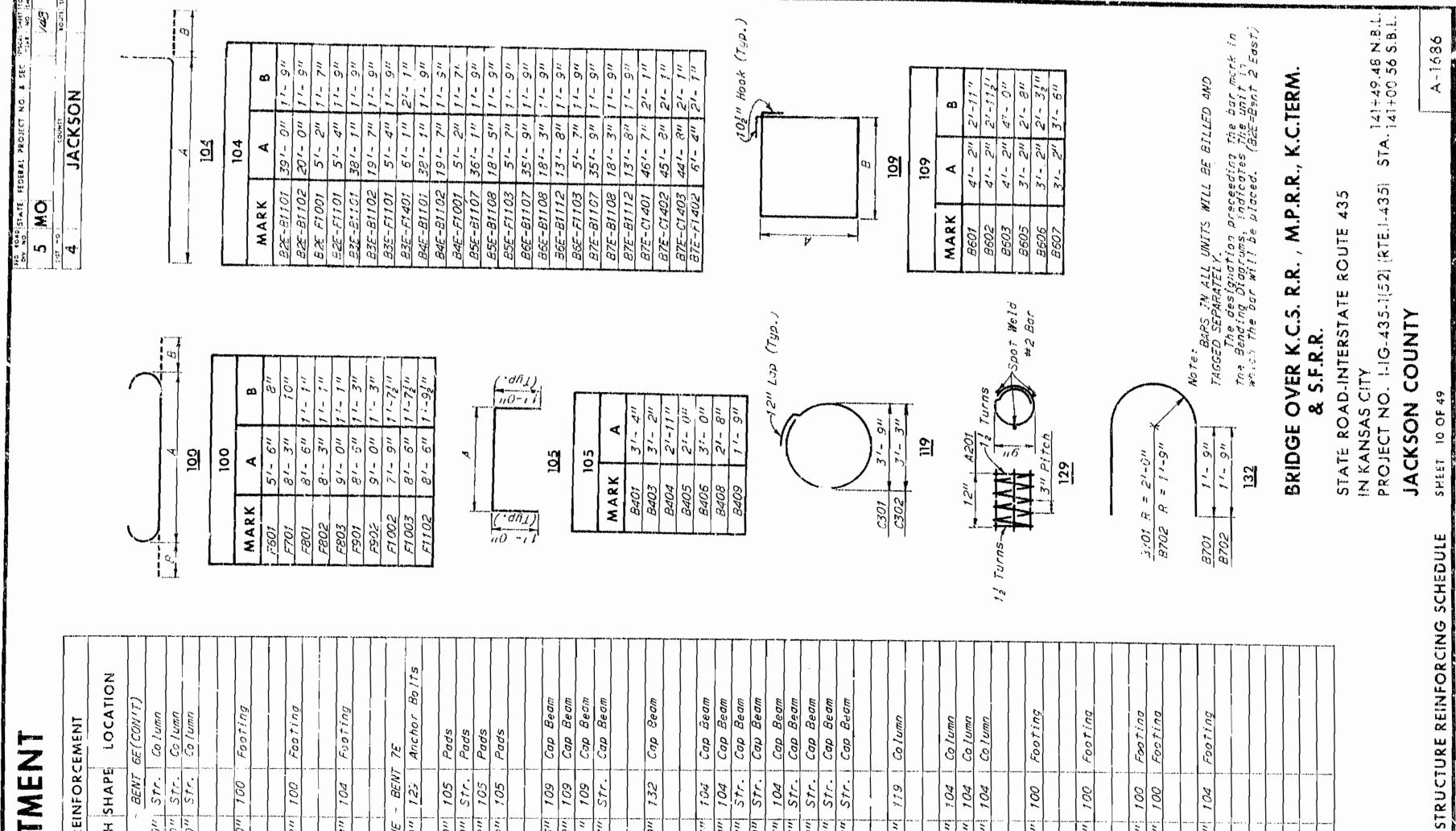
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS

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	BIL	LOFRE	EINFOR	RCEMENT	BILL OF REINFORCEMENT			BILL O	F F
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8	C1 401	291- 31	" Str.	. Column					.
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5	8	0	5	5/// /2007	B608 241-5" Str. Cap		48 F;	103 7	1- 41
N	F801	101 - 81	100	FooTing	8 B702 9'- 0" 132 Cap Beam		NORT	THBOUND	
6	F1003	11- 31	100	Footing	B1107 37'-10" 104 Cap	#		~	
	****				B1108 20'- 2" 104 Cap B1109 23'- 6" Str. Cap	<i>m</i>	38 3405 36 8407	07 3 07 3	0
04	F1101 F1102	1-121	100	Footing Footing	B1110 301-4"	m m			11
					B1115 161- 6" STr. Cap	<u></u>			
8	F1407	81-21	<i>b</i> 01	Footing	113 C302 11'- 3" 119 Column		2 B605 32 B606	05 13	1- 511
		!'						• · · · · · · · · · · · · · · · · · · ·	13
2	NORTHBOUND	UND LANE	- BEN	(16 [C1101 41'- 9'' 571. Column 16 [C1102 40'- 7' 51r. Column		[-		
2	8401	1			C1103 39'- 5" Str.		8 B702	02 3	11- 011
100	E402 R403	31-01	1 Str.	-	τι) ΕΕΠΤ 6'-10" 100 Footing	********		·	
101		- 1		spo _d			· ·	B1107 37	
\sim					16 F701 9'-11" 100 Footing			108 201	"- 0"
					8 F802 101- 51 100 Footing				
	B601 B602	15'-11'		Cap Cap	48 F1:03 7'- 4" 104 Footing		8 6 B1	B1112 15	1- 5"
5	B603		501 m		TIND I ANE - BENT		~ ~ + ~ ~ ~		J.,
n	C 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			rad pequi	12 A201 191-91 129 Anchor	Bo Its	1.5 atti-1997- 5-21.4		
8	B701	9:-91	132	Cap Beam	. 0" 105		* ***** ******	•	****
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		33'-	Str		B605 121- 811 109 Cap			`1 *** ***	
0		- 01		2007	15'- 1" 109 24'- 3" Str.	8 8	20 FÉOI	9	,-10"
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S		321	1 STr.	Co I umo			1.1.5.6 p	 	
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	<u> (7003</u>	30'- 0'		CO 10000	B1109 231- 8" STr. Cap	3			
0	F601	61-10"	100	Footing	B1110 29'-10" Str. Cap B1112 15'- 5" 104 Cap	8 8	52 F14	402 8	ر <i>5</i> ⁷⁷
					4 B1113 13'- 6" STr. Cap Beam 22 R1115 14'- 9" STr. Cap Beam	8 3		 14 1.481 #) / /
0	F1001	99		Footing					
6 9		0 - 11		Footing Footing	120 (302 11'- 3" 114 Column			A. 1.4 4 10,000	
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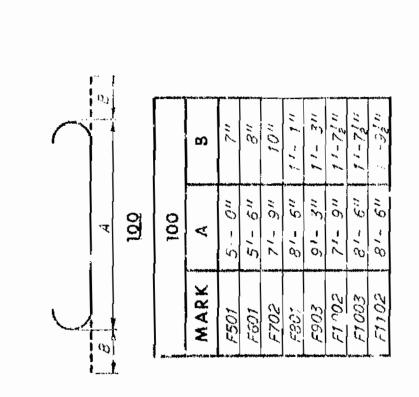
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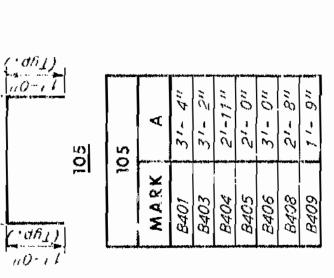
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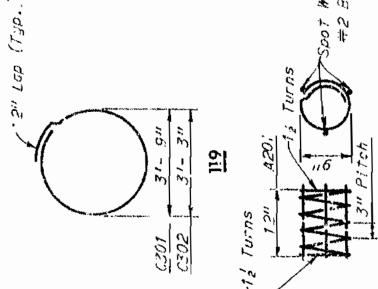
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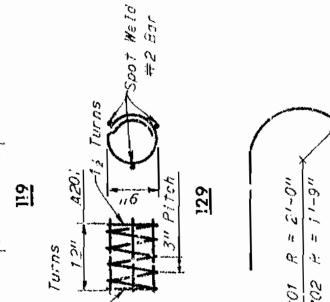
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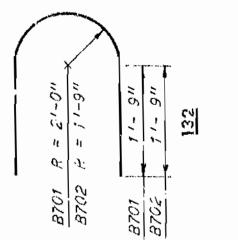
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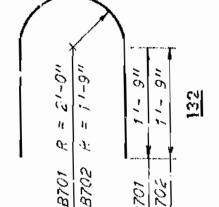


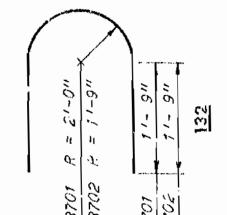


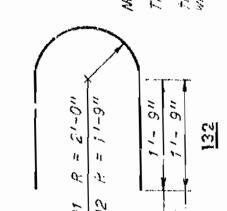


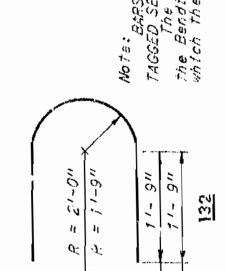














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BRIDGE OVER K.C.S. R.R. & S.F.R.R.

STA. 141-49.48 N.B.L.

I-IG-435-1(52) (RTE.I-433)

JACKSON COUNTY

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STATE ROAD-INTERSTATE ROUTE 435 IN KANSAS CITY PROJECT NO. 1-IG-435-1(52) (RTE.1-435

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DEPAR HIGHWAY STATE MISSOURI

BILL	<u> </u>	20 C1101 291- 5	0 × 1/3	20 F601 6'-1(12 F801 101- 6		16 F1001 5'- 8 16 F1002 11'- 0	F1 003 1	-;2 10112 01		SOUTHBOUND L	12 4201 191- 5	B406 5'-	36 8407 31- 0 2 8408 41- 8	B409 3'-	131-		8608		8 8702 91- (B1107 37	B1103 21:03	B1110 23'-	301-	4 31115 111- 6	105 (302 11'- 3		01 391-	C1102 30 C1103 37		30 F501 51-16		24 F792 91-3	-12 20113 65						
BILL OF REINFORCEMENT	K ENGTH SHAPE	SOUTHEOUND LANE - BENT 3W BITOT 40'- 3' 104 COD		B1105 32'- 5" Str. Cap B1105 18'- 3" Str. Cap		68 (301 12 ¹ - 9 119 Column	C1001 26'- 9" STr. Co	E C1003 241- 0" Str. Colum		20 (1401 261-0" 311. 401000	20 E601 6'-10" 100 Feoting		12 F801 10'- 8" 100 Fcoting		32 F1001 51-8" 104 Footing 15 Et003 111-5" 100 Footing		14 F1102 121-1" 100 Footing		20 F1401 81- 211 104 Fouting	- JAN I ANE	12 A201 191-911 129 Anchor Bolts		8401 51-4" 105 8402 31-0" Str.	51-1	B405 41- 011 105	B601 15'-11'' 109 Cap	B602 16'- 0" 109 Cap	261 - 611		8 B701 91-94 132 Cap Be	107 V.	B1102 221- 4"	141- 4" Str. Cap 251-21" Str Cap	B1105 321- 511 Str. Cap	5" STr. Cap	75 C301 12'- 9" 119 Column		16 CT002 281-0" Str. Column		
BILL OF REINFORCEMENT	NO. MARK LENGTH SHAPE LOCATION		B407 51- 411 105	- 2" - 2" - 1	B405 41- 011 105	REDT 151-11" 109 Cap	16'- 0" 109 Cap	B604 271-5	*	8 8701 91- 9" 132 Cap Beam		B1102 231- 7" 104 COD	B1103 141- 4" Str. B1104 261- 4" Str.	B1105 331- 3" STr. Cap	B/100 16 - / - 31/. COD	73 C301 12'- 9'' 119 Column		16 C1001 28'-11" Str. Column 15 C1003 26'-1" Str. Column		12 _ C1102 27'- 6" Str. Column		F607 6'-10	12 F801 701-8" 150 Footing		32 F1001 61- 8" 104 Footing 16 F1002 11'- 0" 100 Footing	F1003 11/- 911 700		16 F1101 71- 1" 104 Footing	SOUTHE JUND LANE - BENT 3W	91- 911 129 And	51- 4" 105	36 B402 3'- 0'' Str. Pods 2 B403 5'- 2'' 105 Pods	4'-11" 105	1.0 -16 COBA		601 <i>"1</i>	B604 26'- 5" Str. Cap	400 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 8701 9:- 9" 132 Cap Beam	

Follow dimensions. scole. 0 101 drawing

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BSTRUCTURE ZEIN

Noie: Hooks and bends s silbe in accordance with the A.C.I. Monus! of Standard Practice for Detsiling Reinforced Concrete Structures (ACI-315-65). Two diameter sends shall noi be used unless specified in sending diagros.

		NOTE: This	
CORSERING ENGINEERS	NEW YORK	-67 CRECKED N. H. H. H. DATE 6-19-67	
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NEOY WIN HOWARD, NEEDLES, TAMMEN & BERGENDOFF COMSULTING ENGINERS

10-12-6061

ÖZ	MARK	TENGTH	SHAP	E LOCATION
	NORTHB	HBOUND LANE		 u
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30	109	21-10	22	rooring
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	NOPTH	BOUND LAN	- 195	. 9£
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		.		
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35	B407	1	12	
ry	B403	1	105	Pads
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8	B606	121-811	109	Cap Beam
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Ø	B702	61-0"	132	Cap Beam
			·**	
Ś	B1107	371- 64	104	Cap Beam
Q	B1103	201-0"	104	Cap Beam
ę	ET 109	231- 8"	Str.	Cap Beam
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12	C1 001	301-211	1 Str.	Co lumn
12	C1 002	291-3"	Str.	Co i umn
12	CT 003	281- 24	Str.	Co lumn
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36	F1 004	61-21	104	Footing
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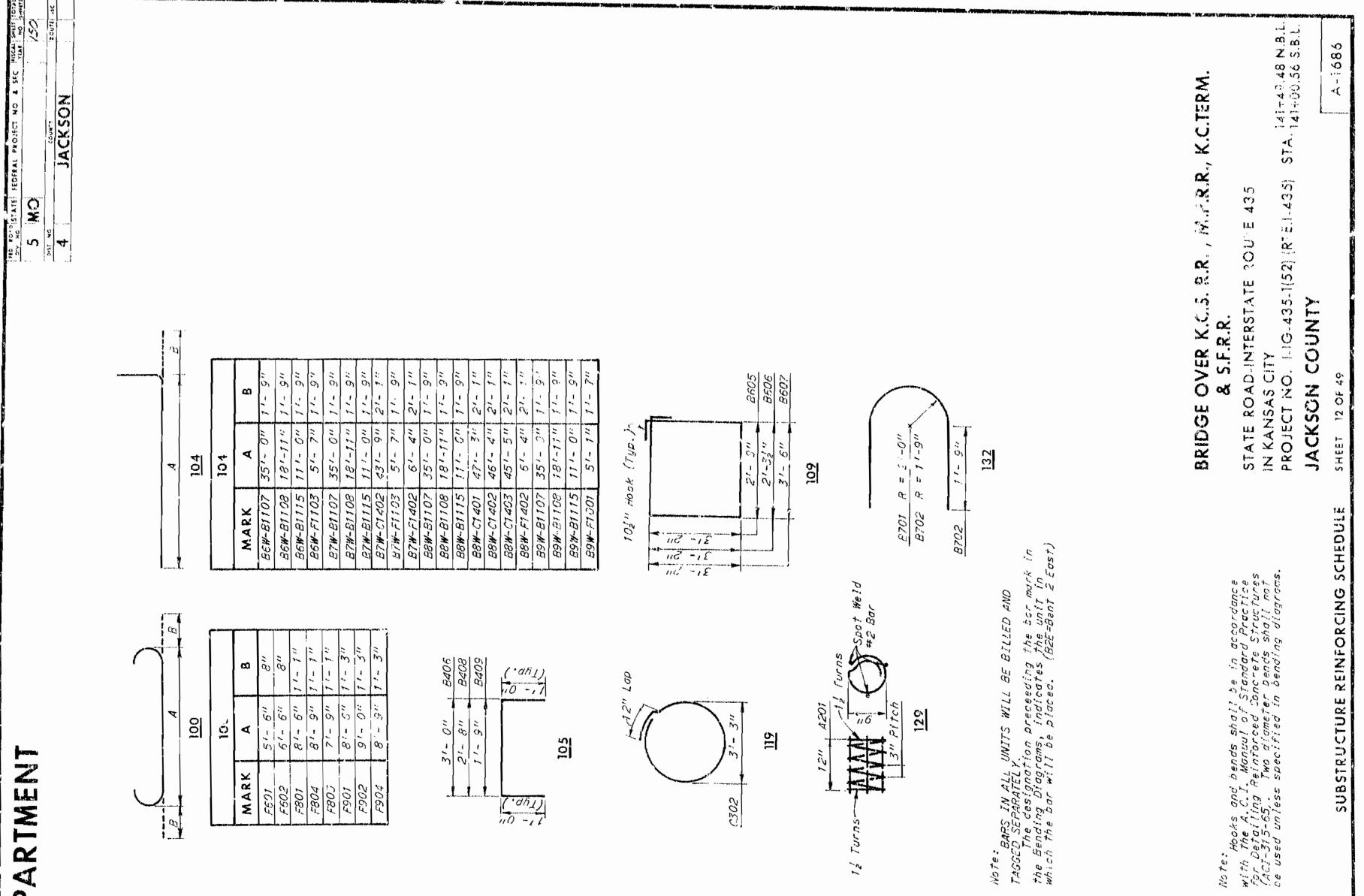


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DEPARTME HIGHWAY STATE MISSOURI

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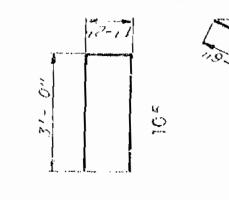
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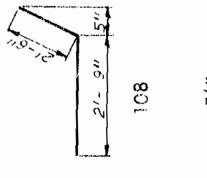
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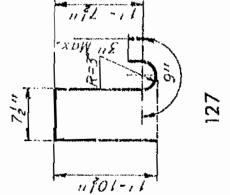
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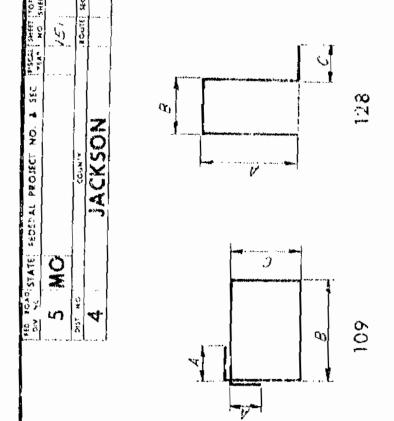
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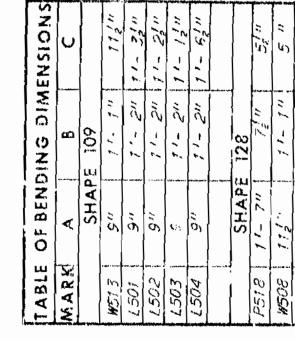
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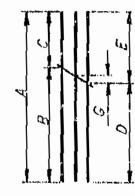


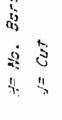


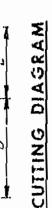


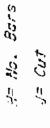
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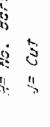


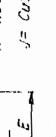


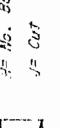


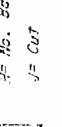


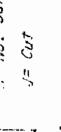




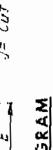














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ROUTE

STATE ROAD-INTERSTATE IN KANSAS CITY PROJECT NO. 1-1G-435-1(5

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A-1686

PROJECT NO. 1-1G-435-1(52) (RTE.1-435) JACKSUN COUNTY 5 H E E T SCHEDULE REINFORCING SUPERSTRUCTURE

13 OF 49

DEPARTME HIGHWAY STATE MISSOURI

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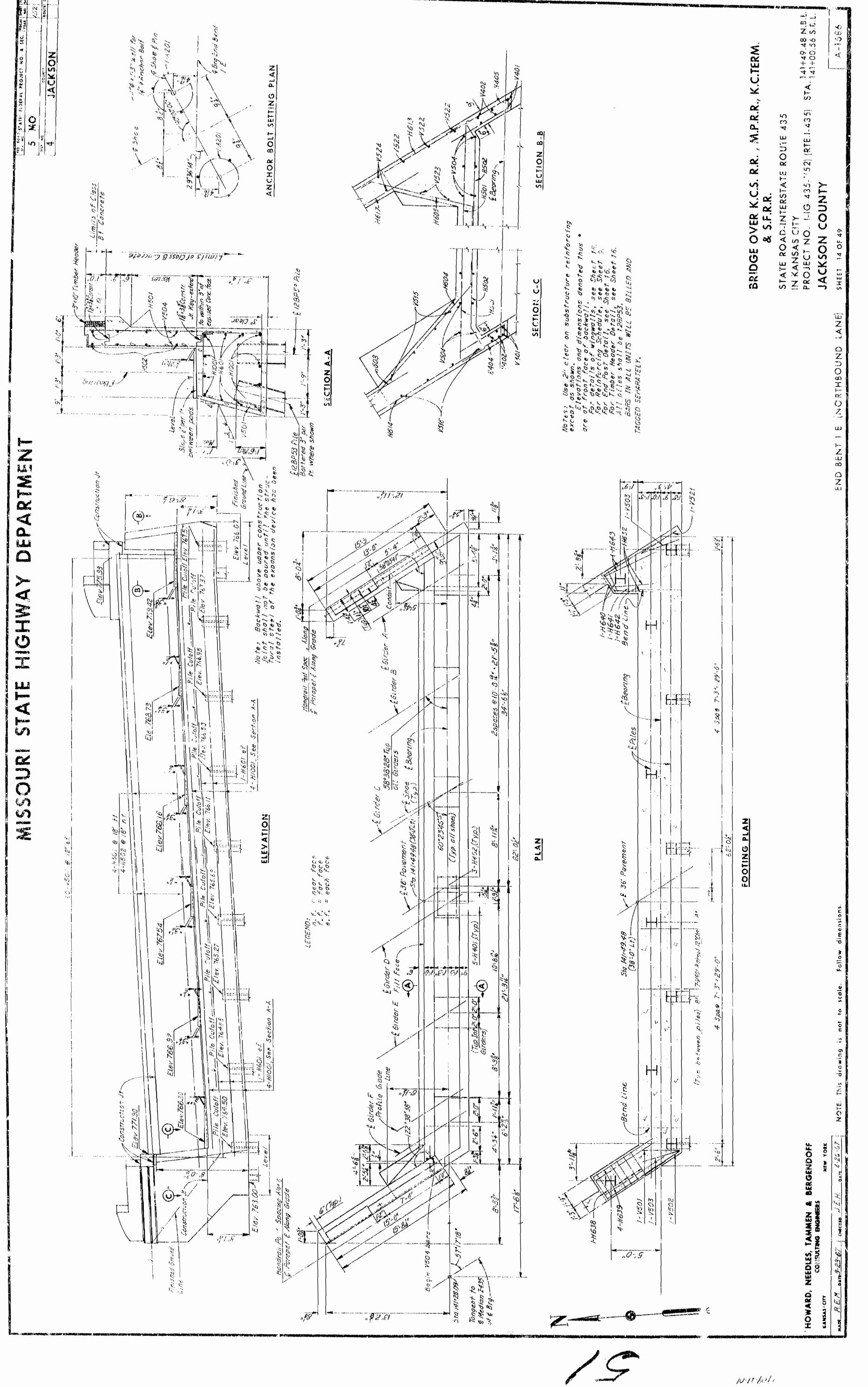
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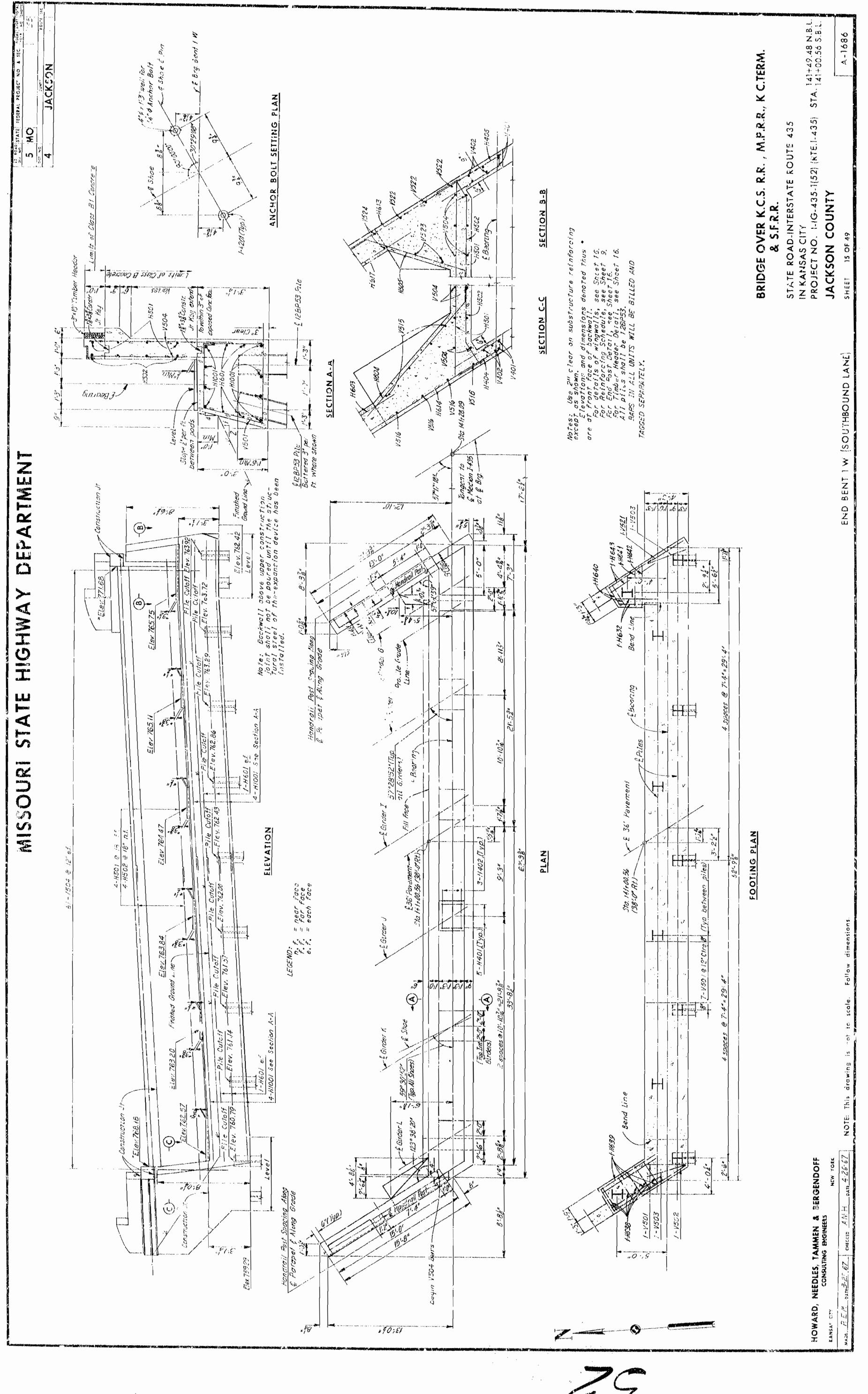
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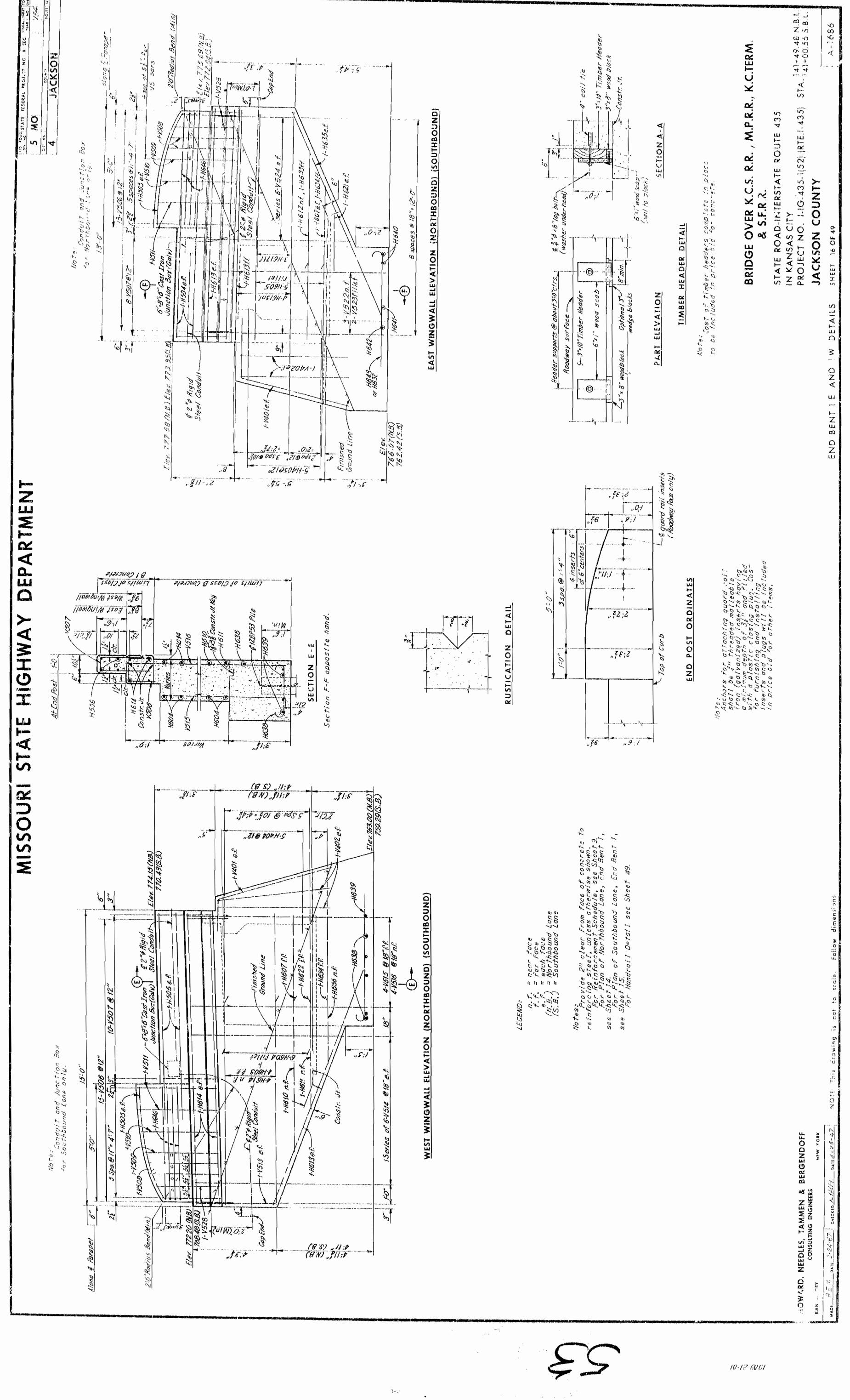
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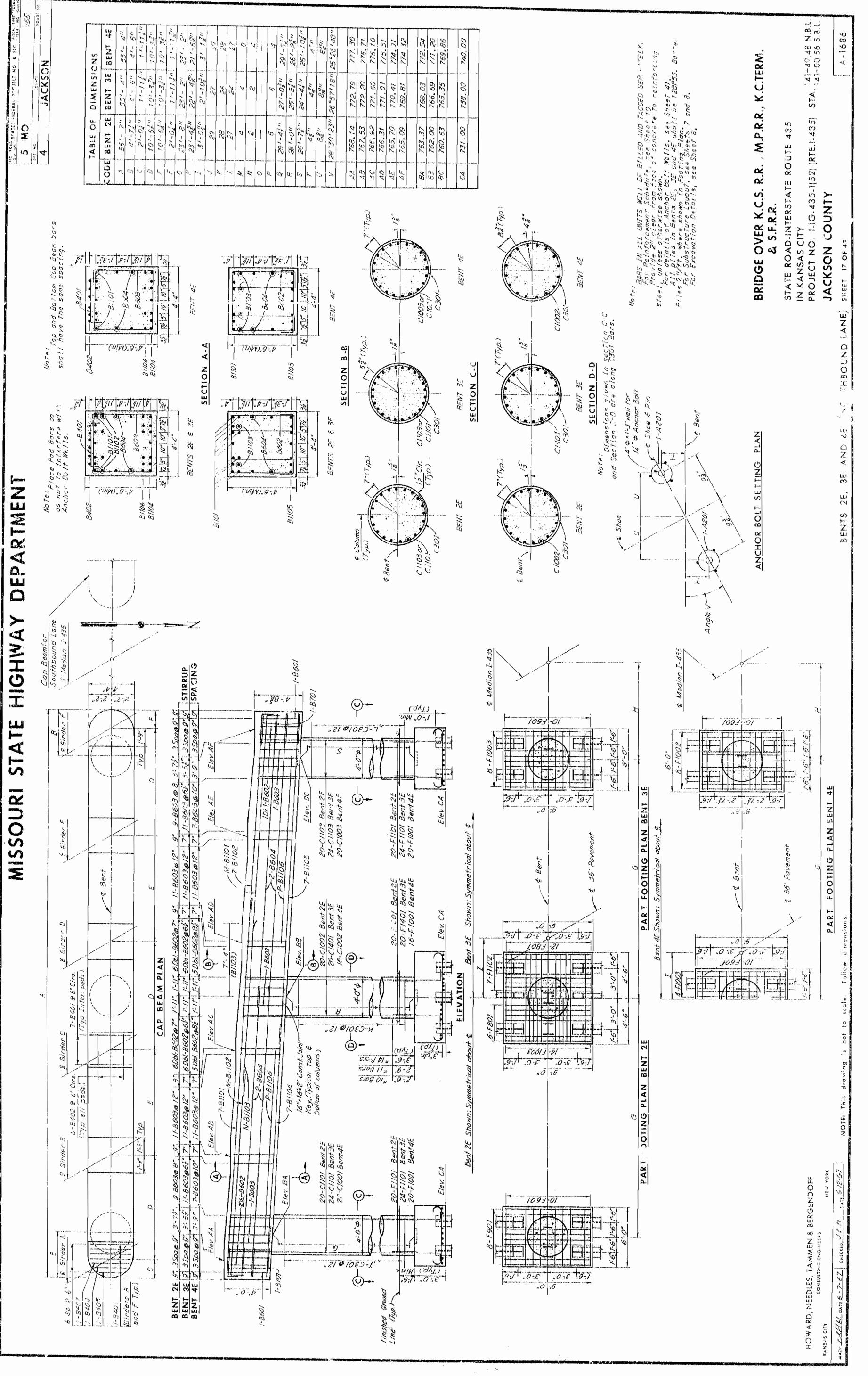






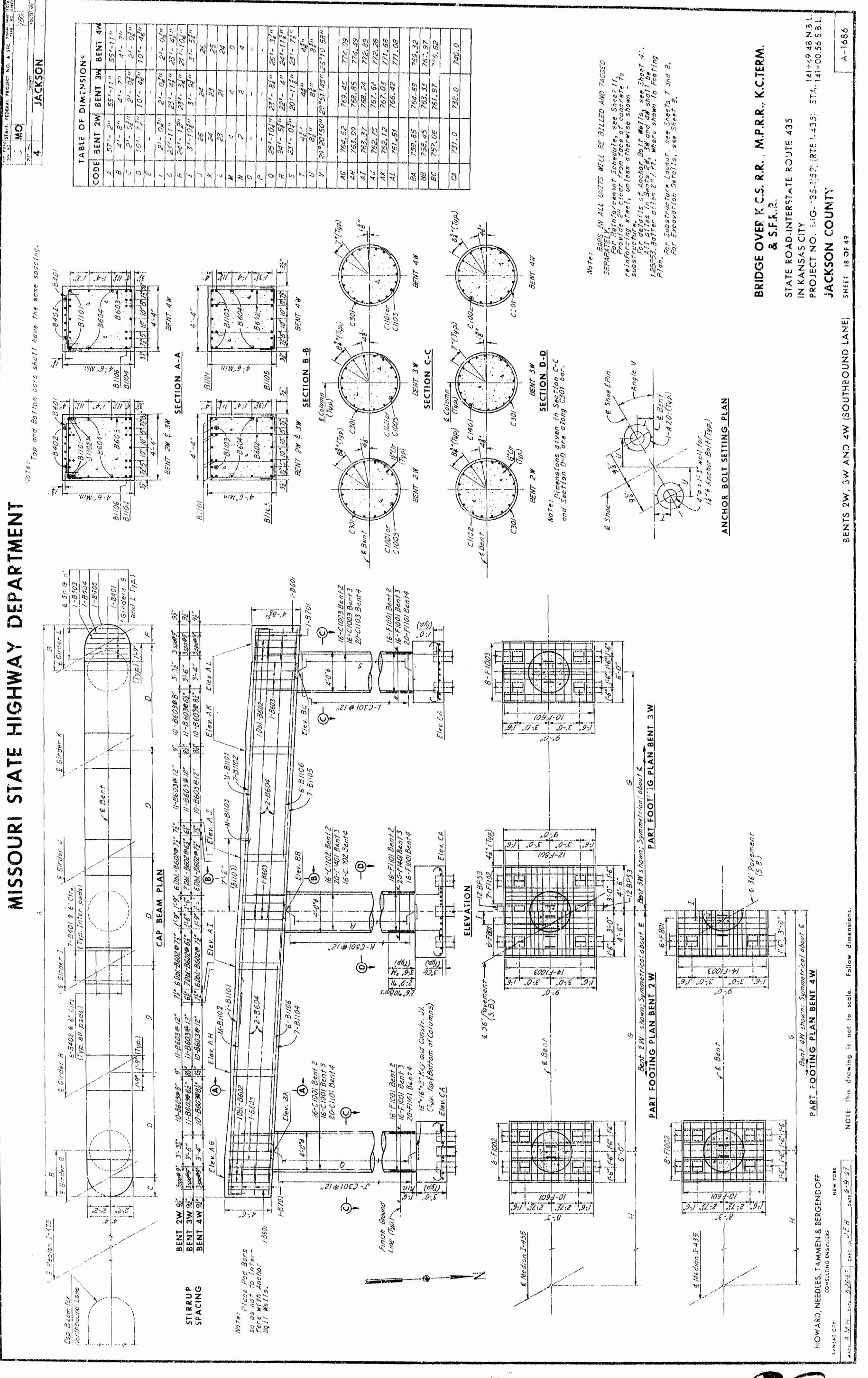


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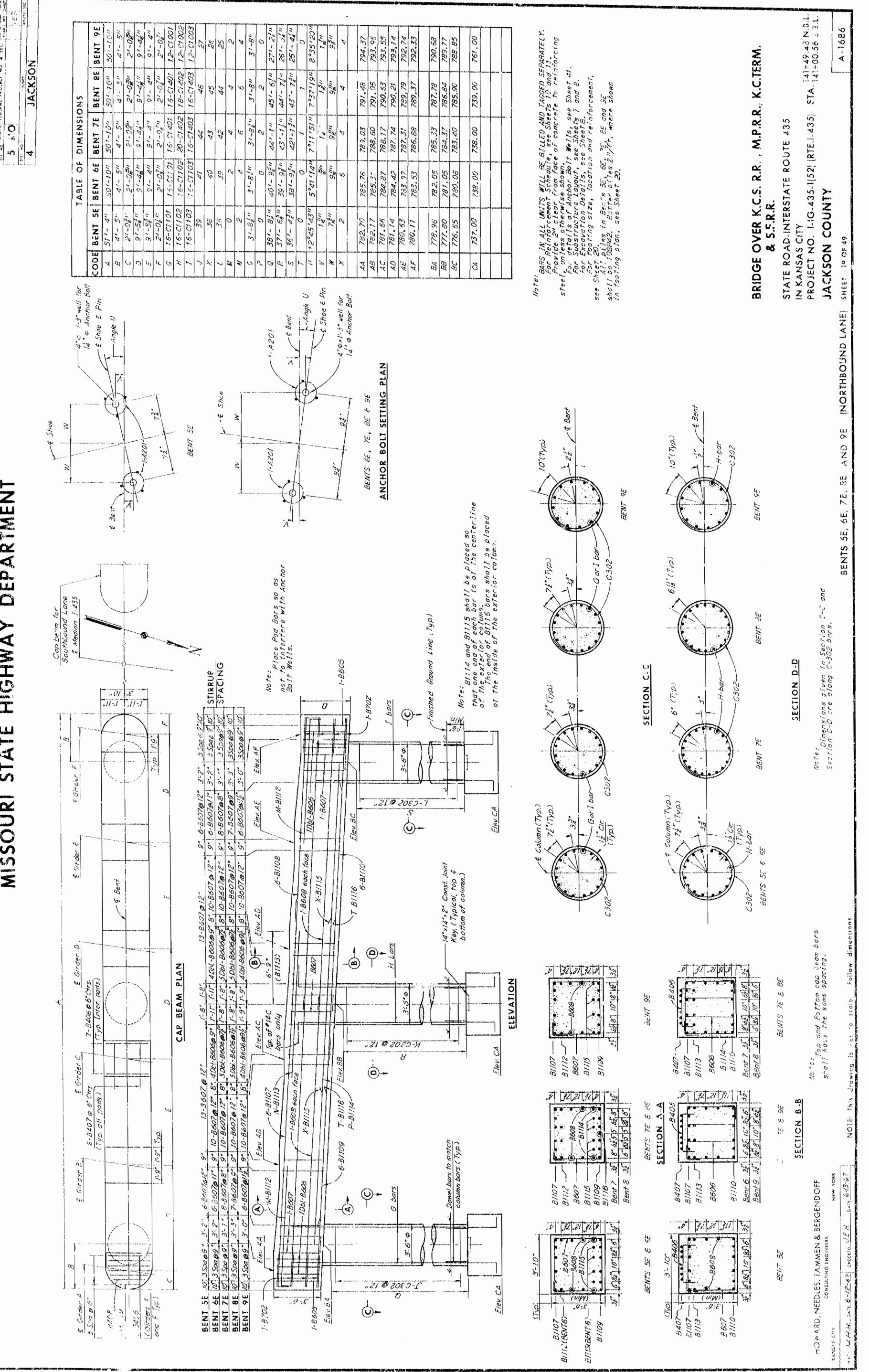
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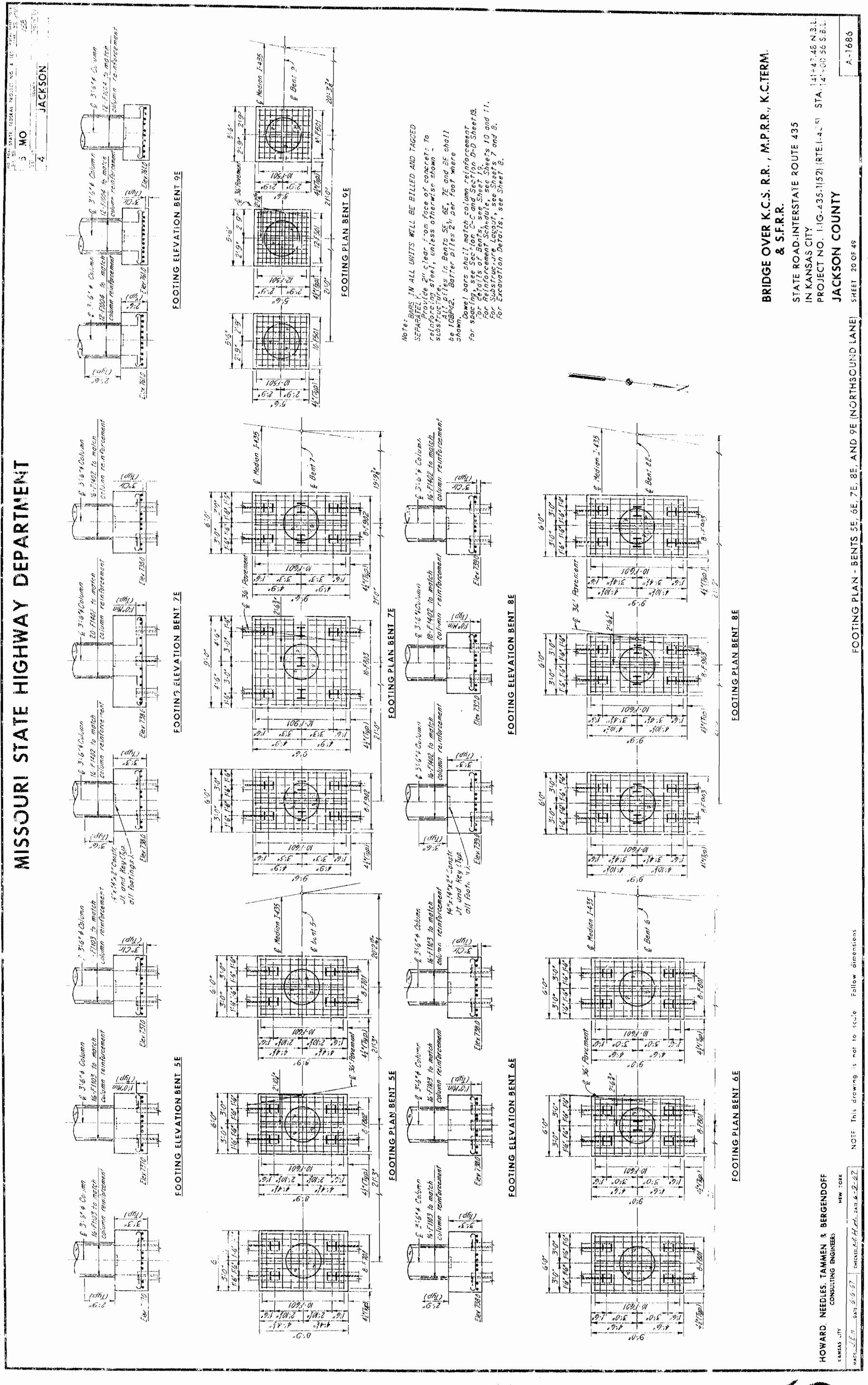


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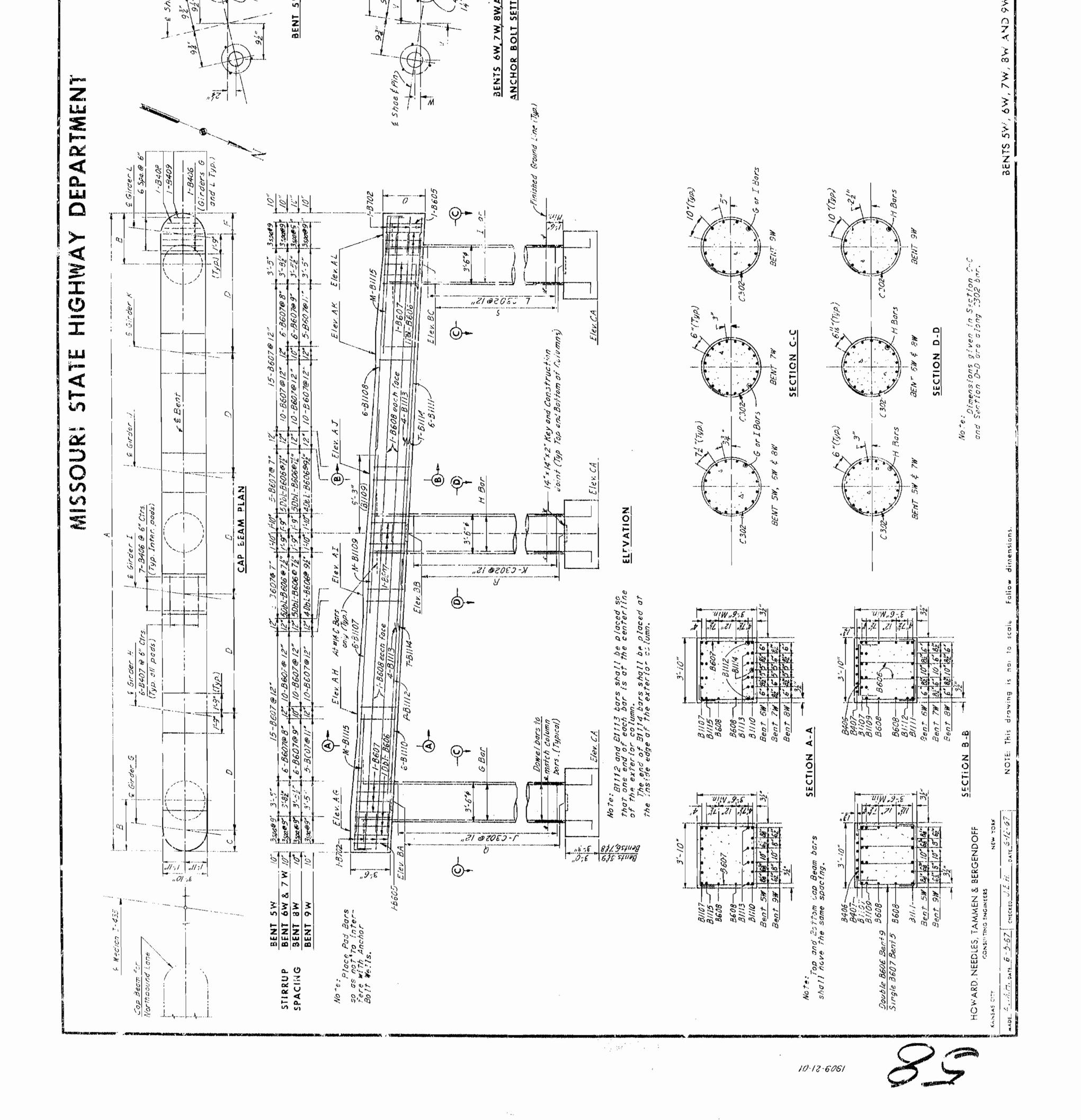
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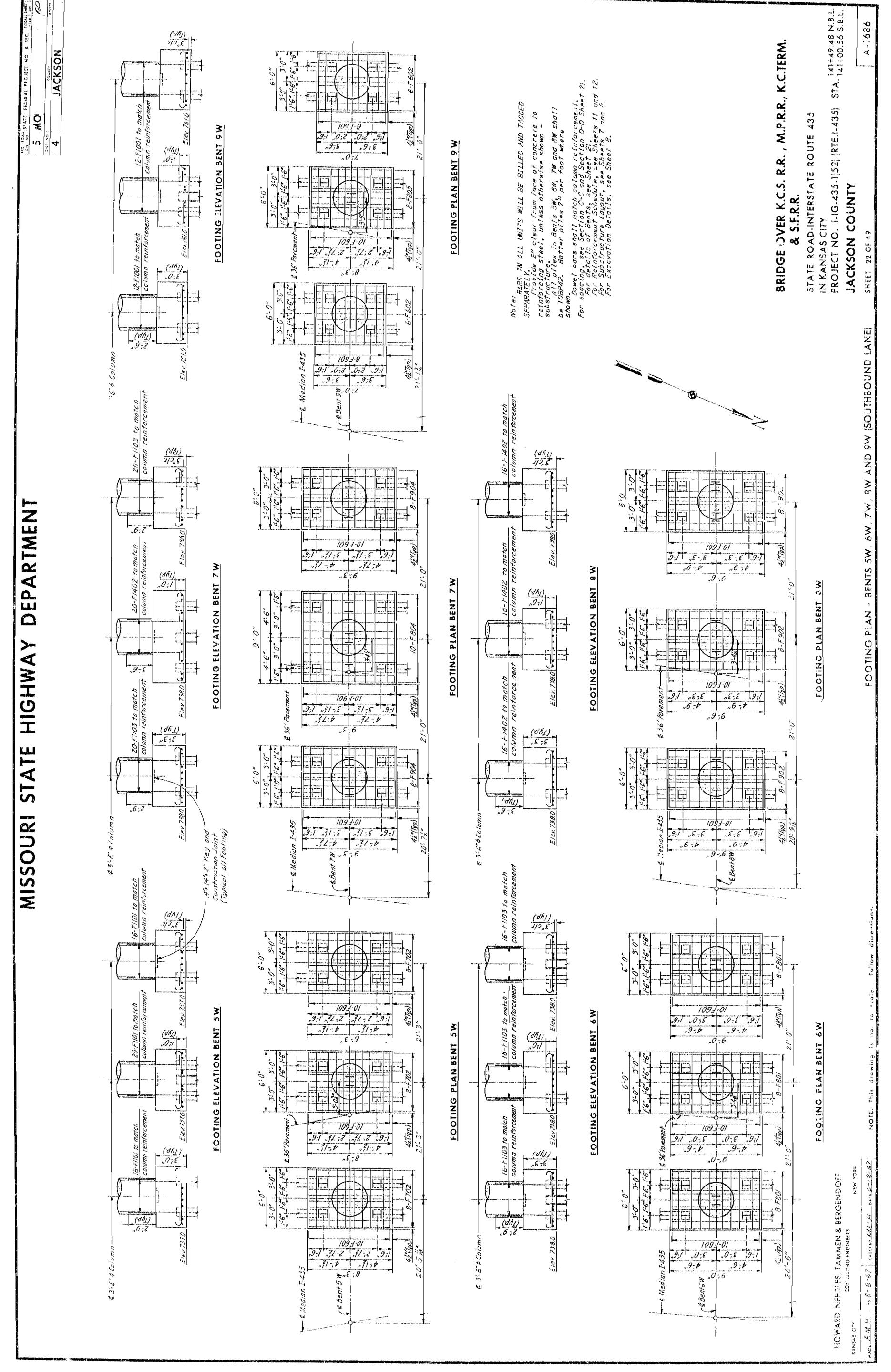
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C MO CONTRETERENT PROJECT VO. 3 SEC PERALTINATION OF AND CONTRACT PARTY ISONAL VOLGEN TO BASERS	$\frac{1}{2} \frac{1}{2} \frac{1}$	BRIDGE OVER K.C.S. R.R., M.P.K.R., K.C.TEP.M. & S.F.R.R. & S.F.R.R. STATE ROAD-INTERSTATE ROUTE 435 IN KANISAS CITY IN KANISAS CITY PROJECT NO. 1-1G-435-1(52) (RTE.1-435) STA. 141+00.56 S.S.I. JACKSON COUNTY SHELT 2105 49 And SHELT 2105 49
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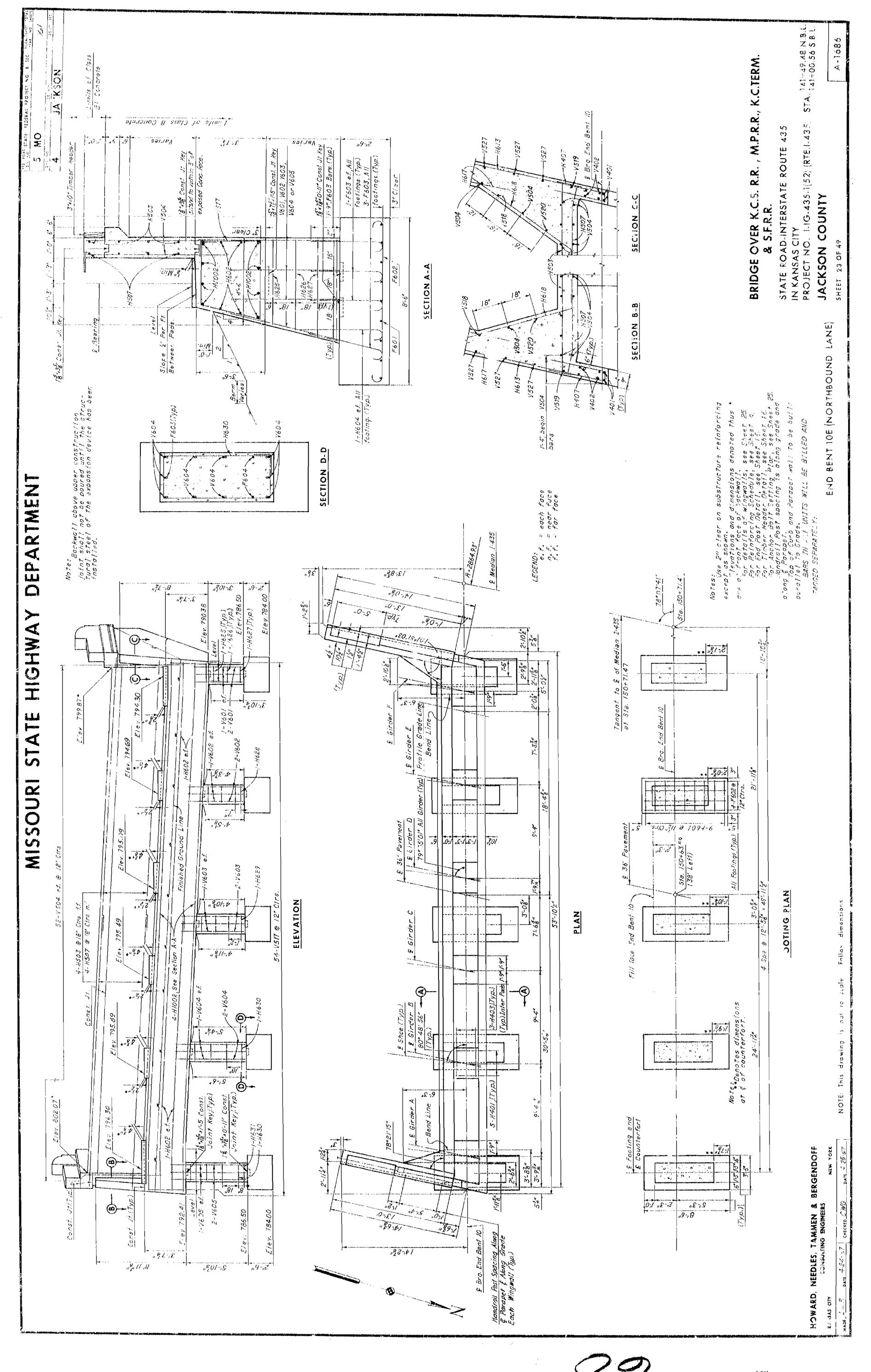






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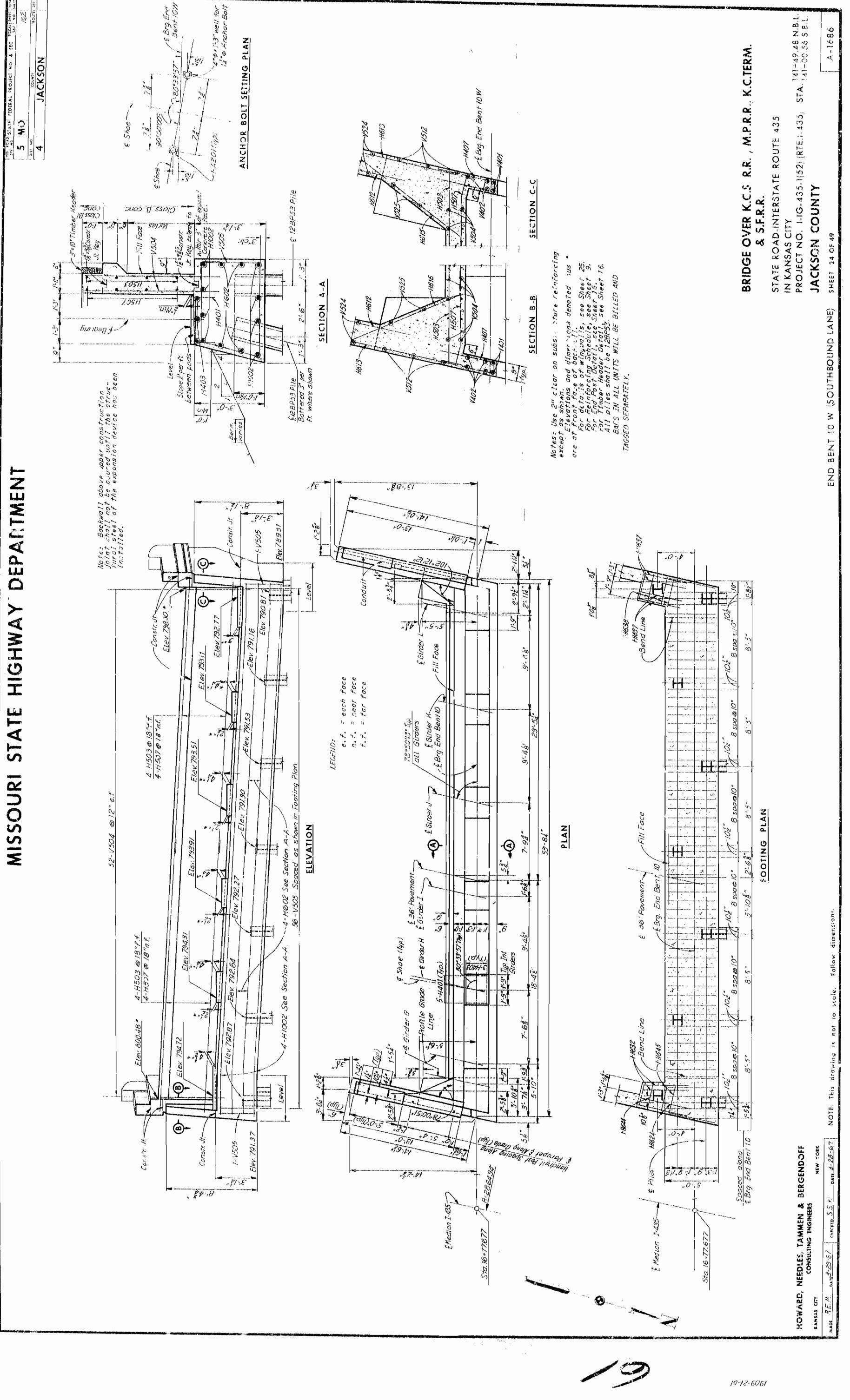


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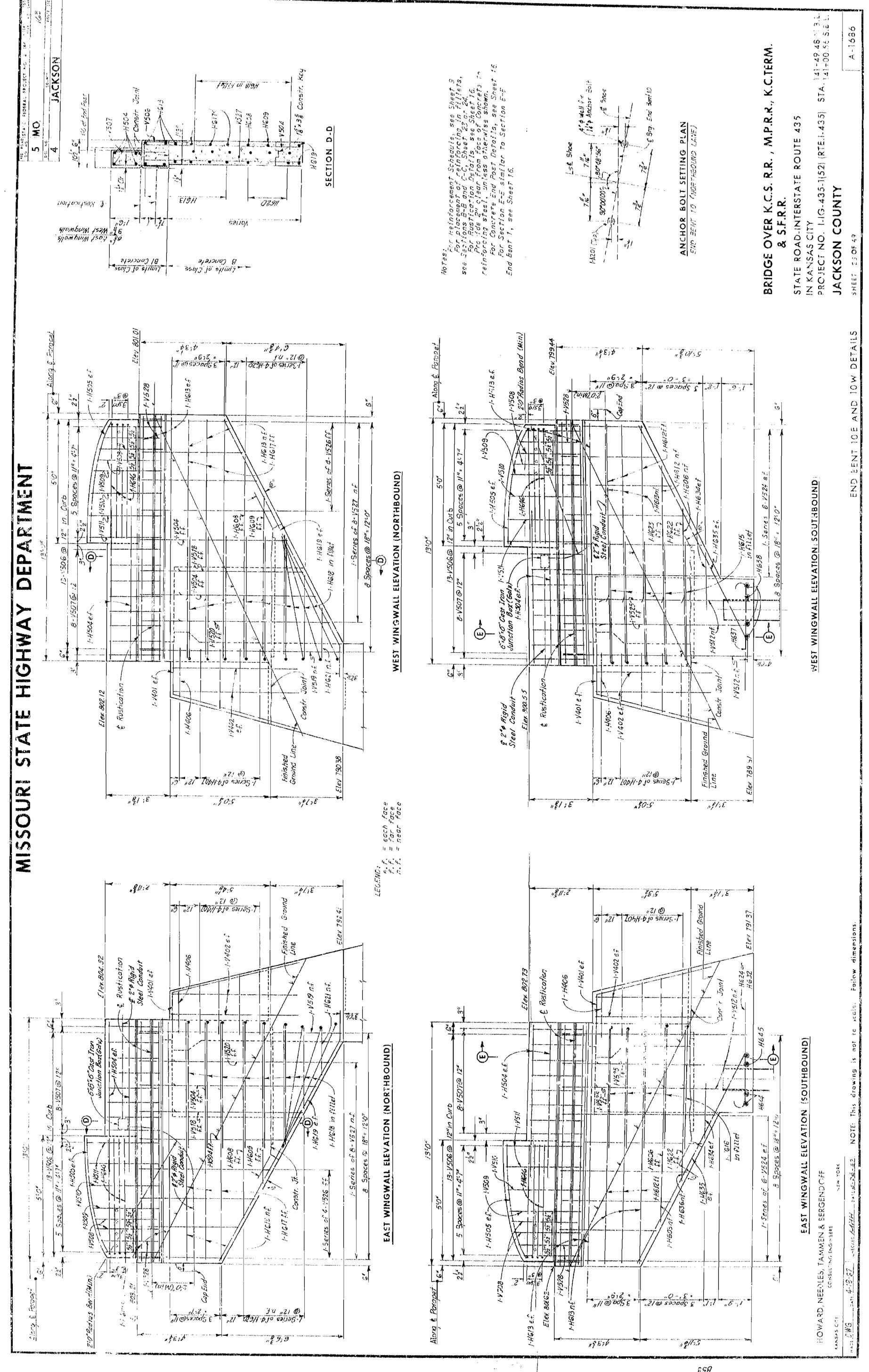


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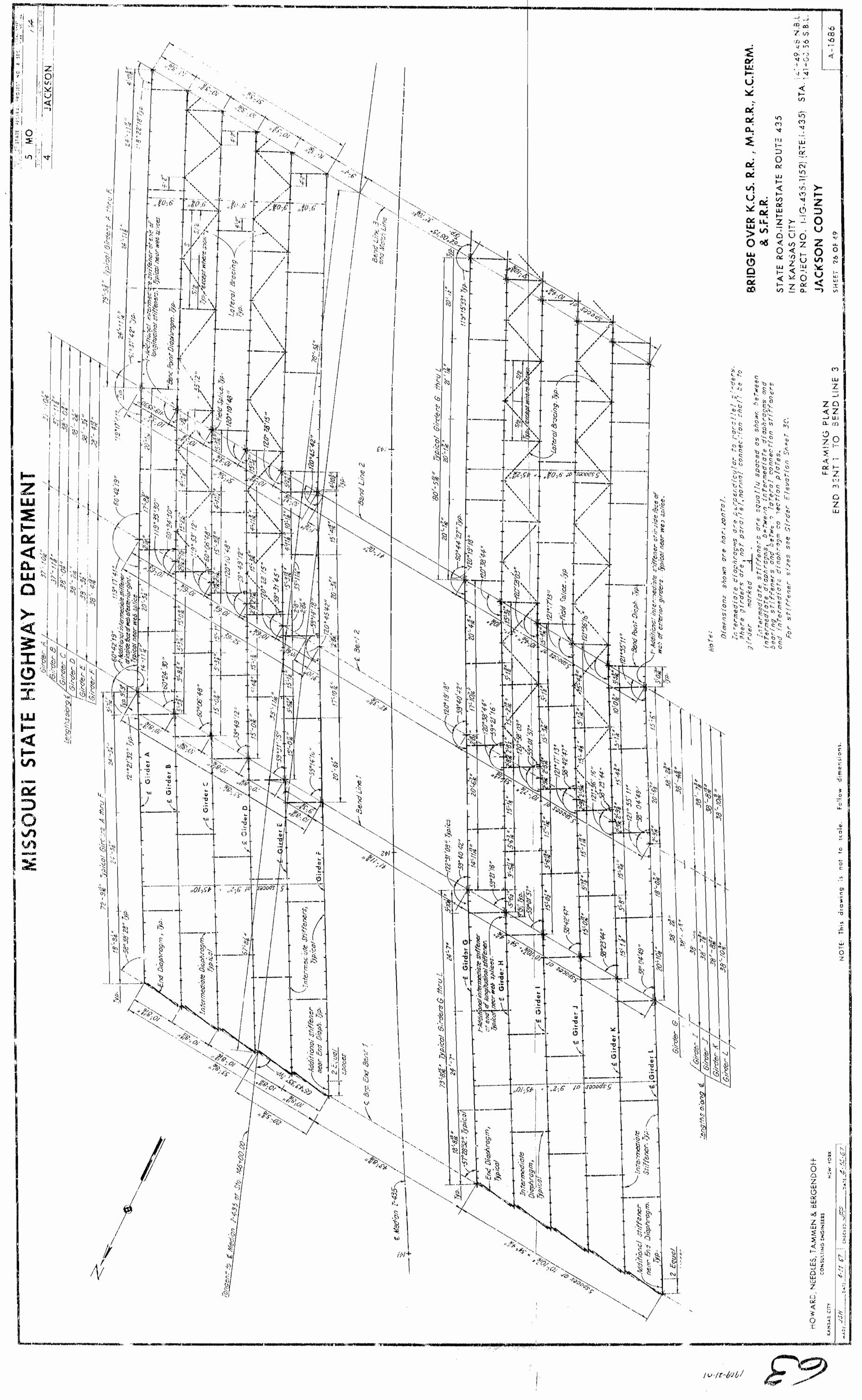
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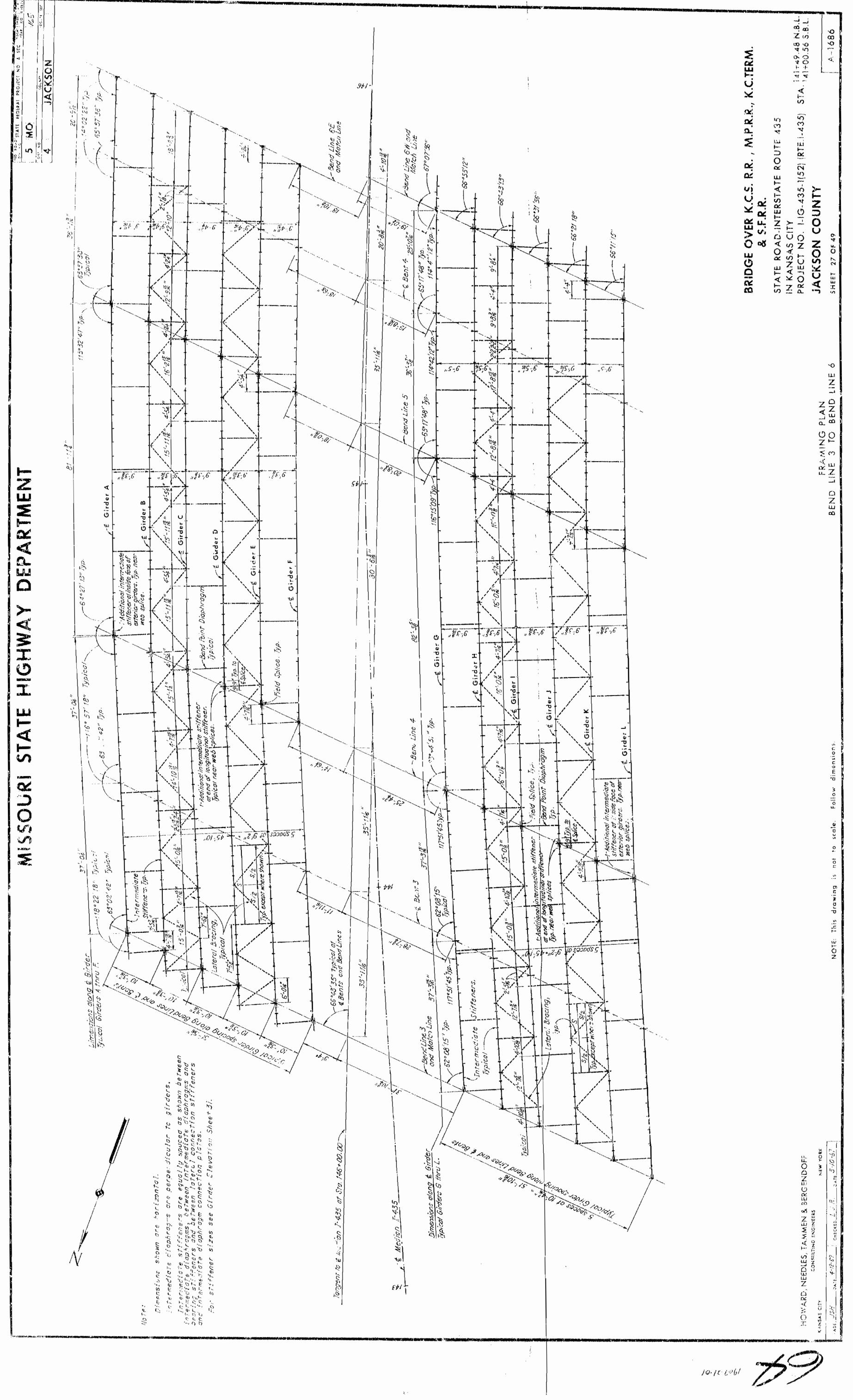
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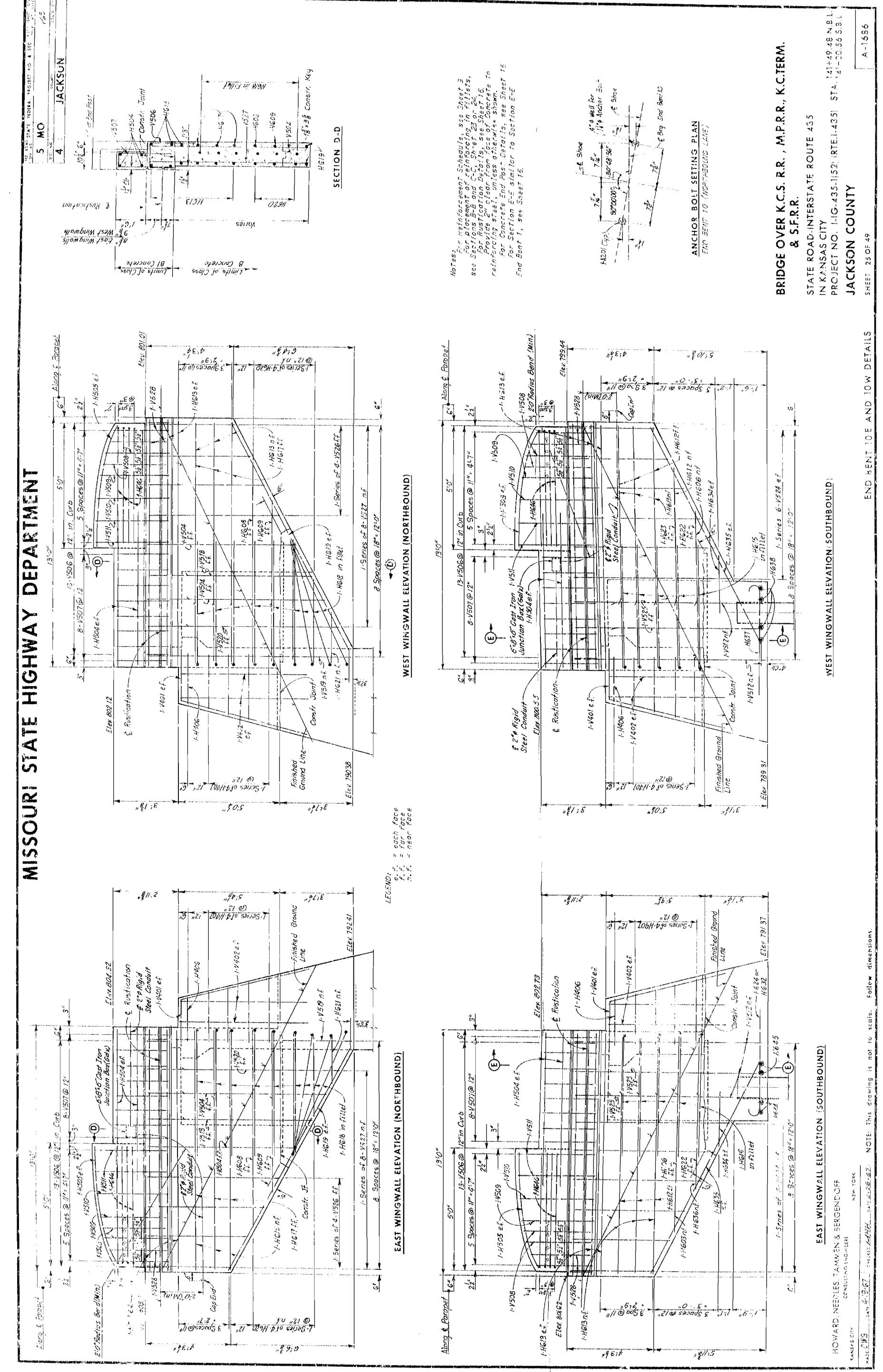
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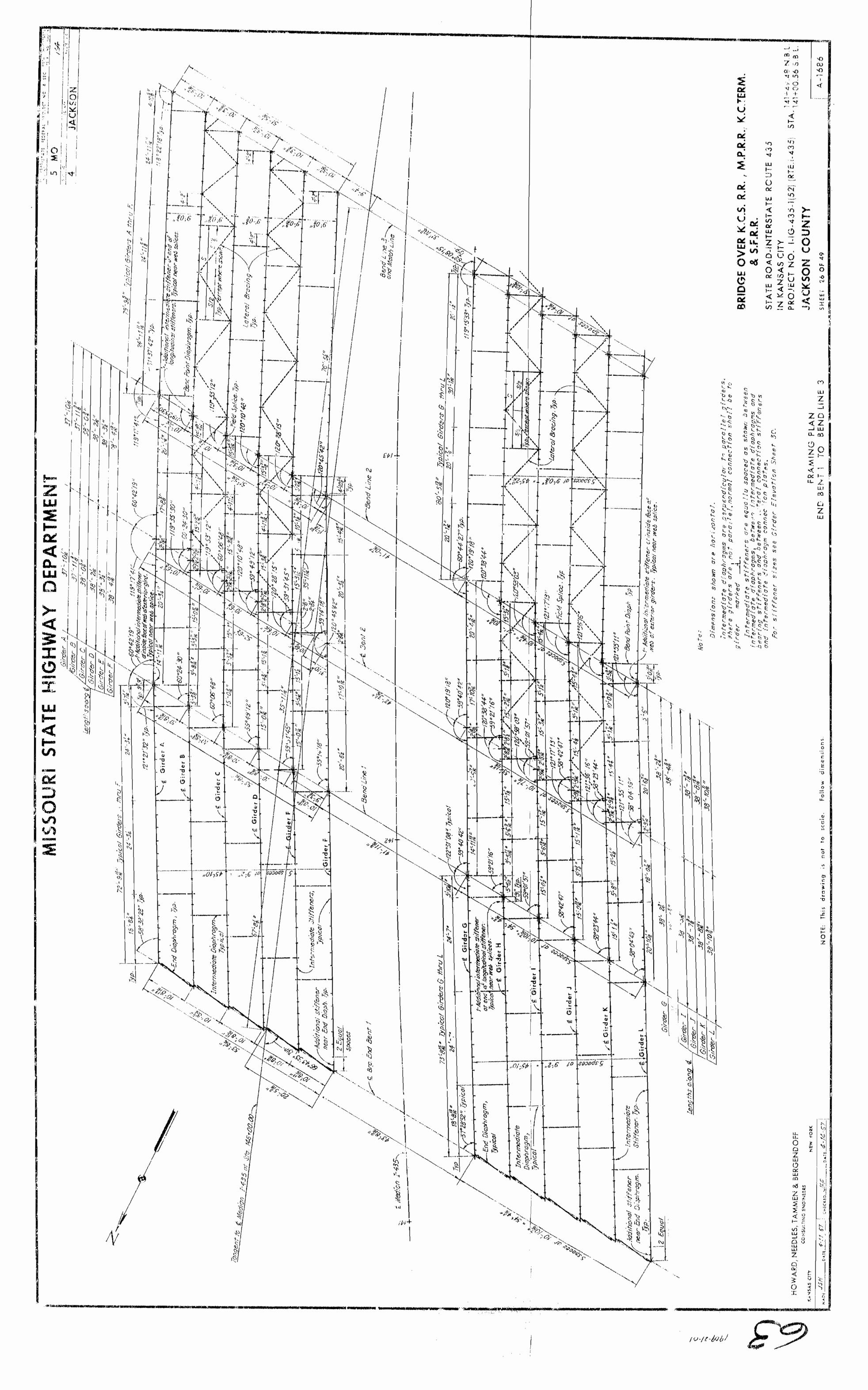
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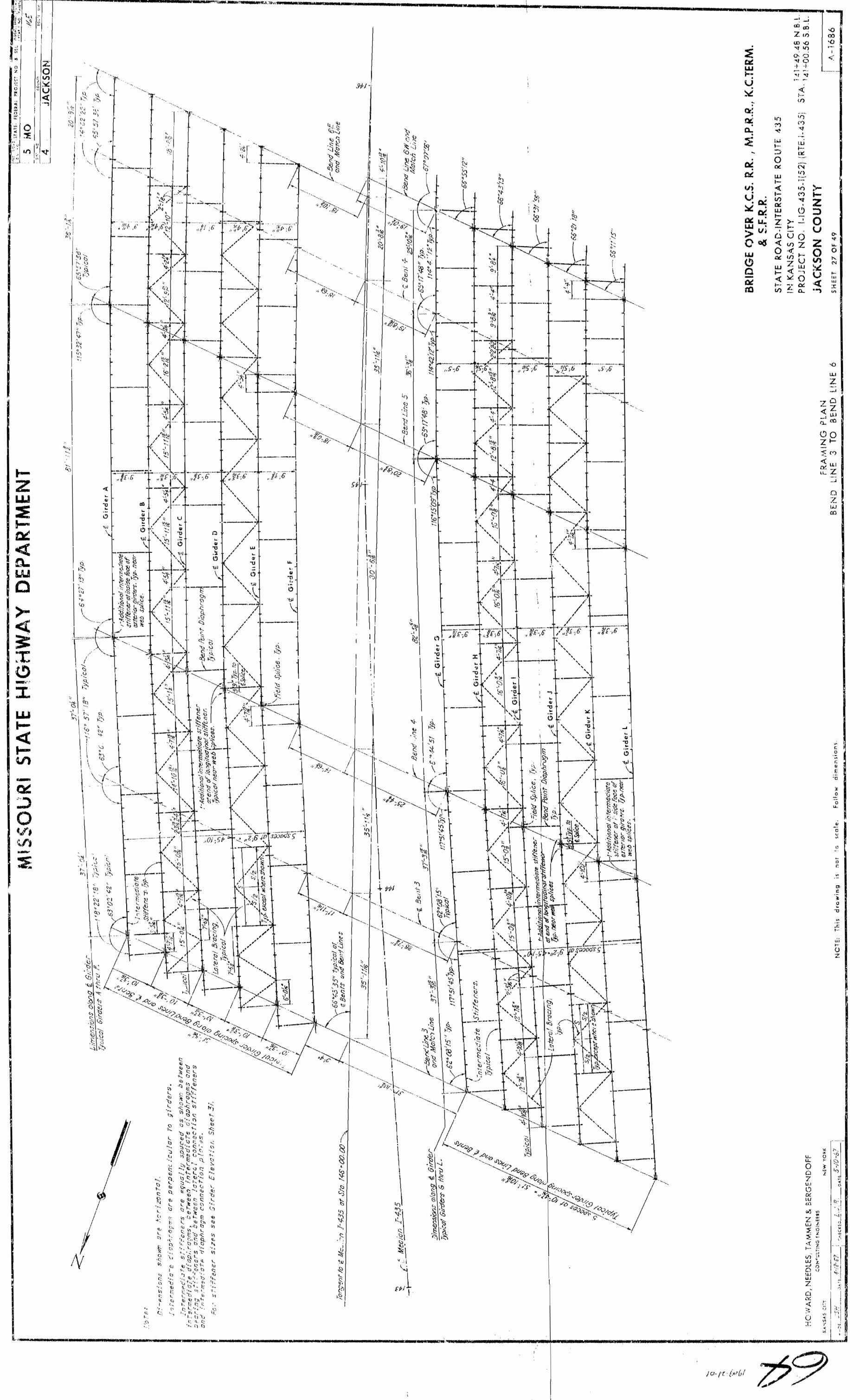




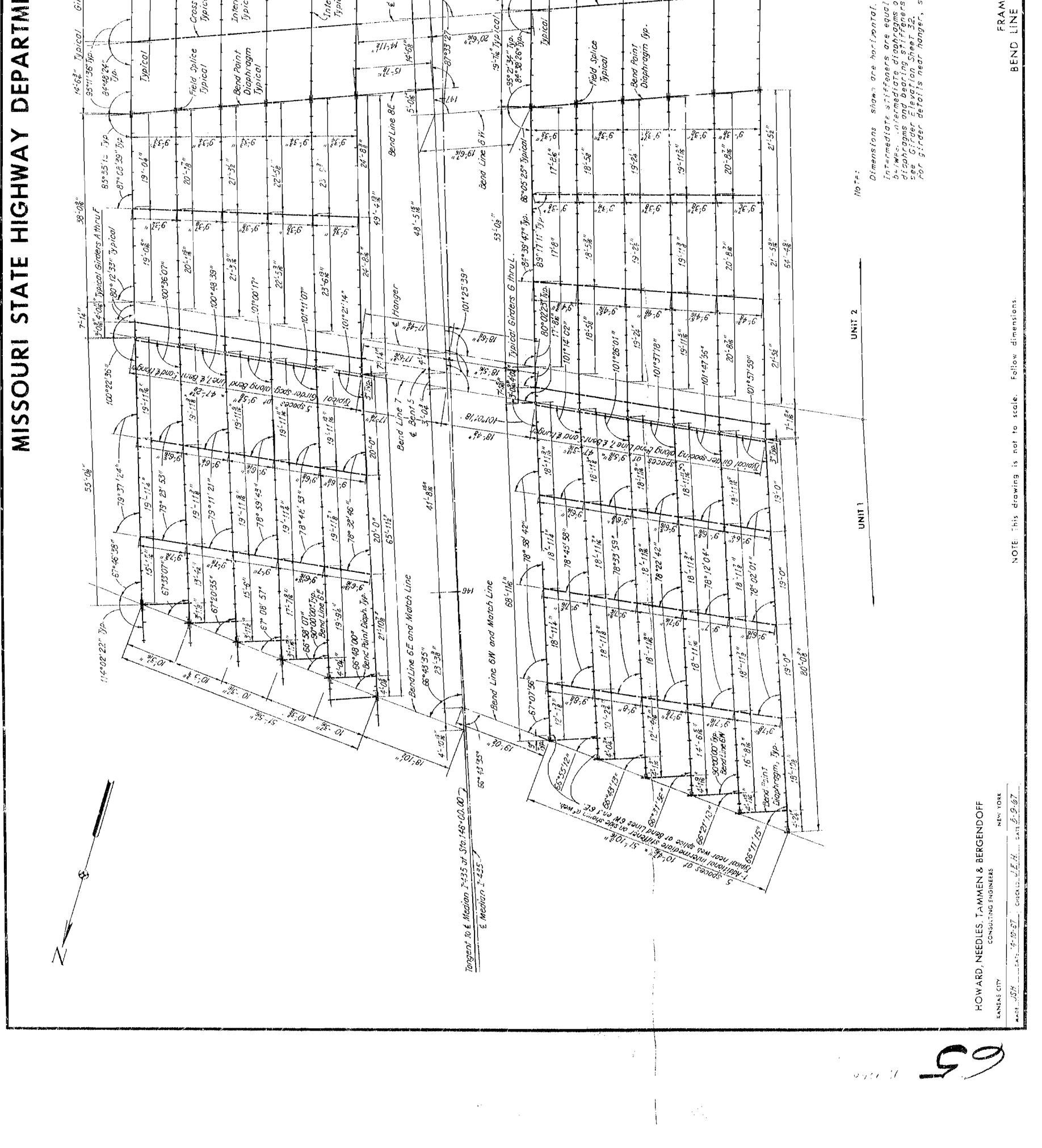


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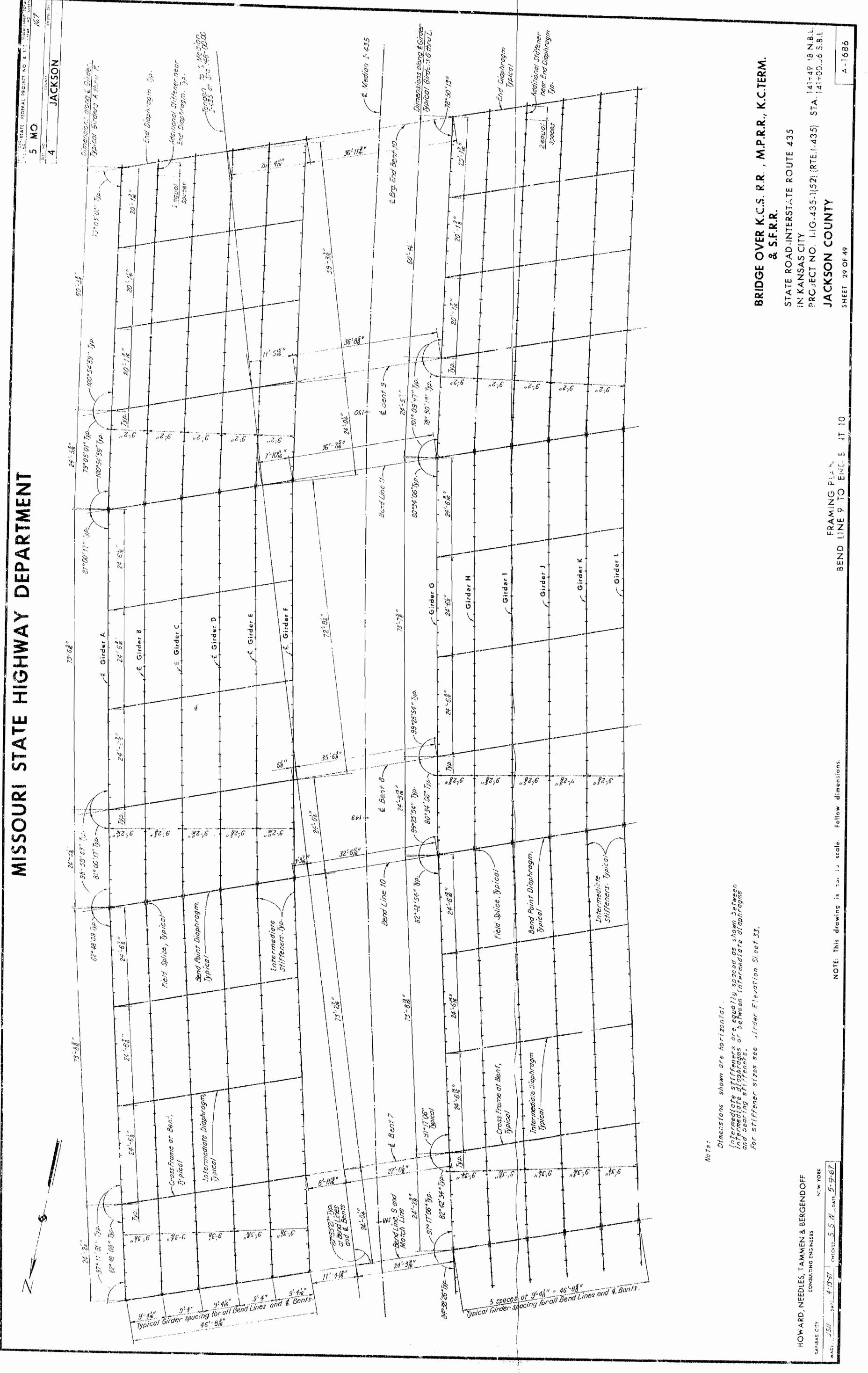


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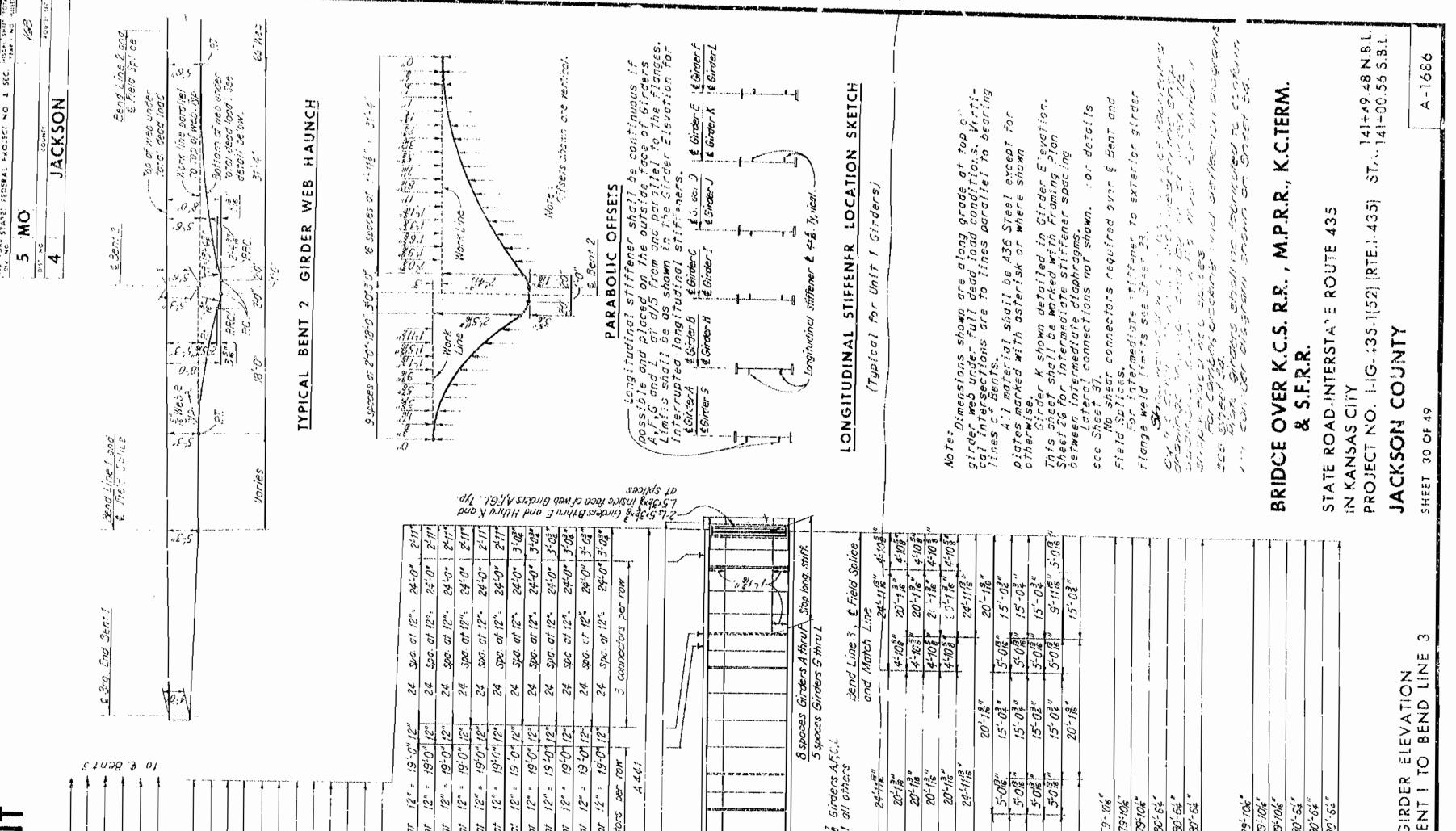


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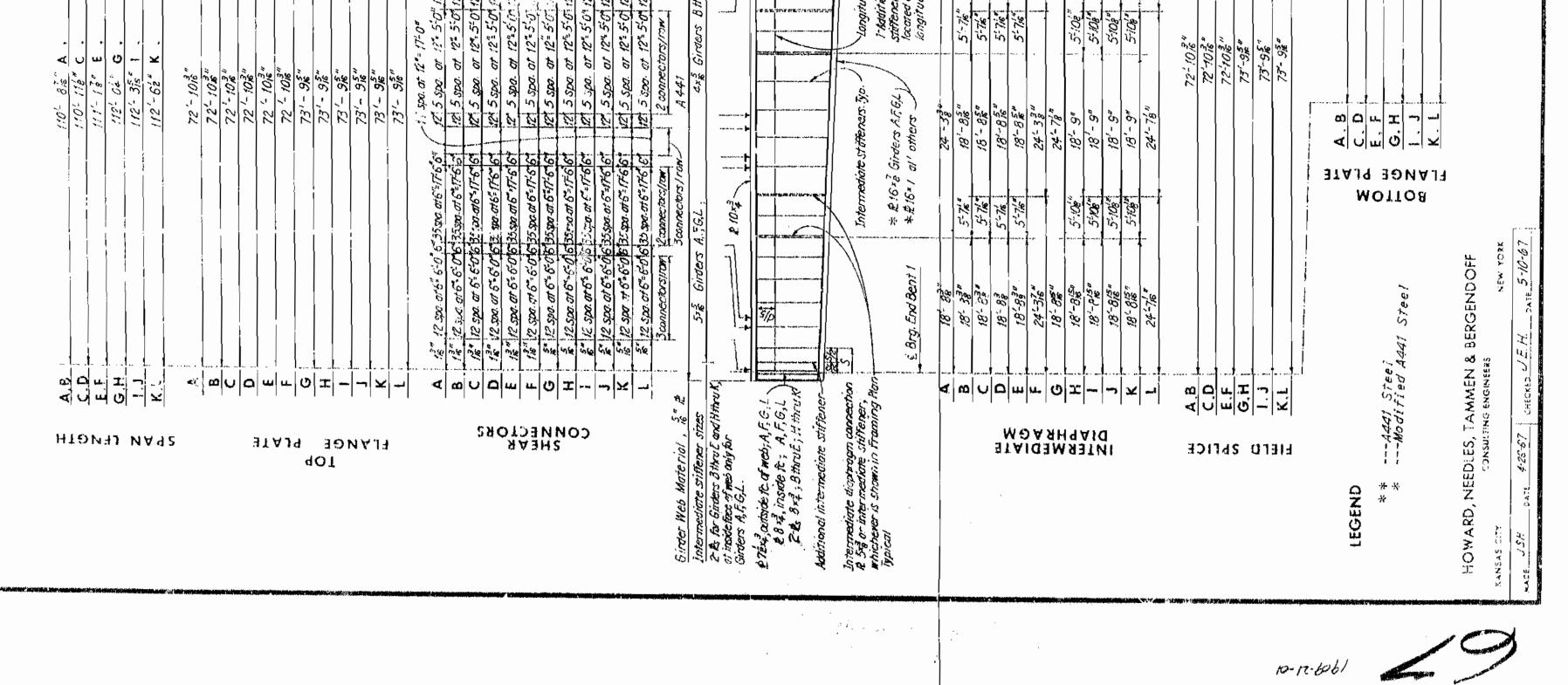




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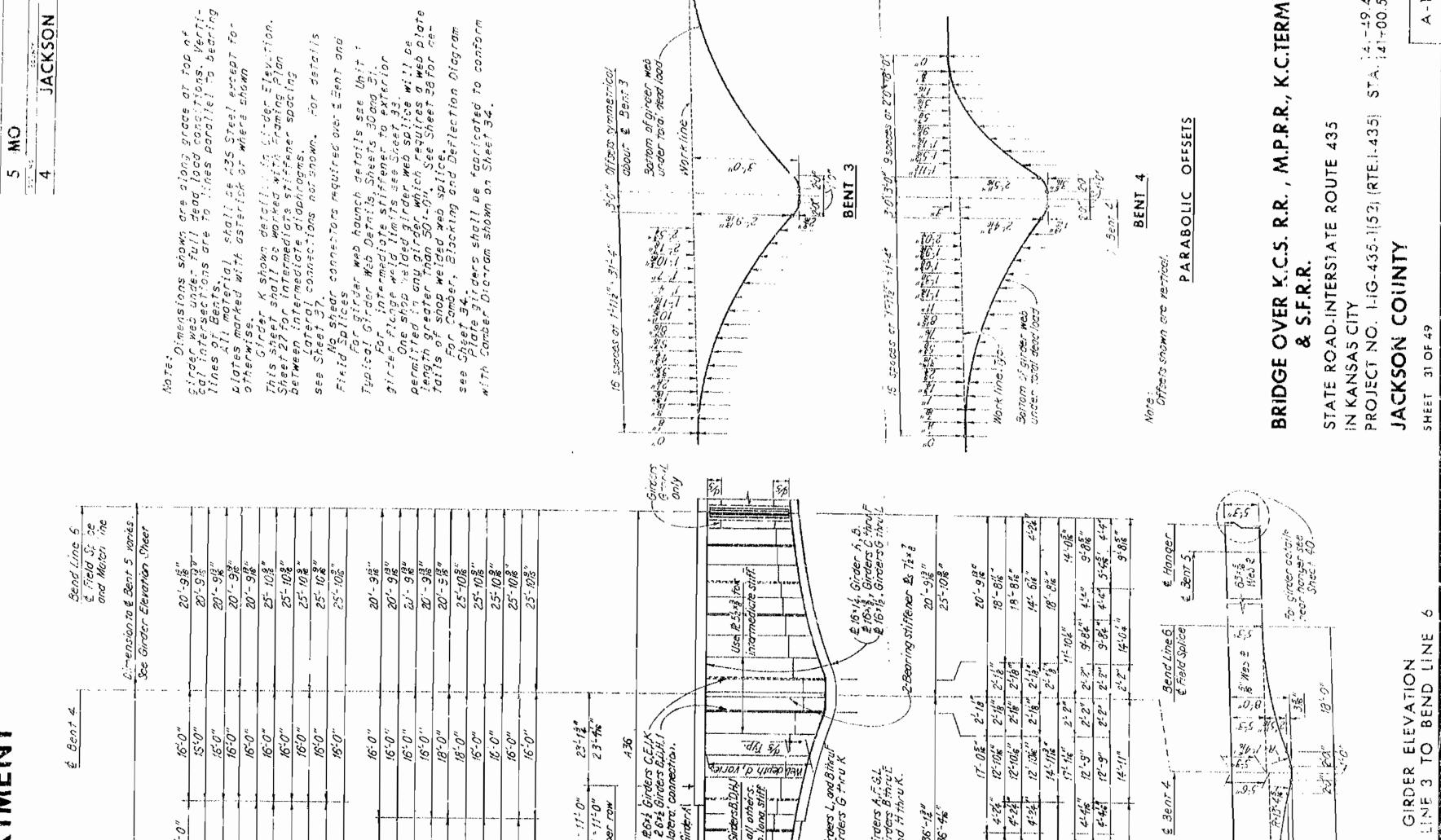




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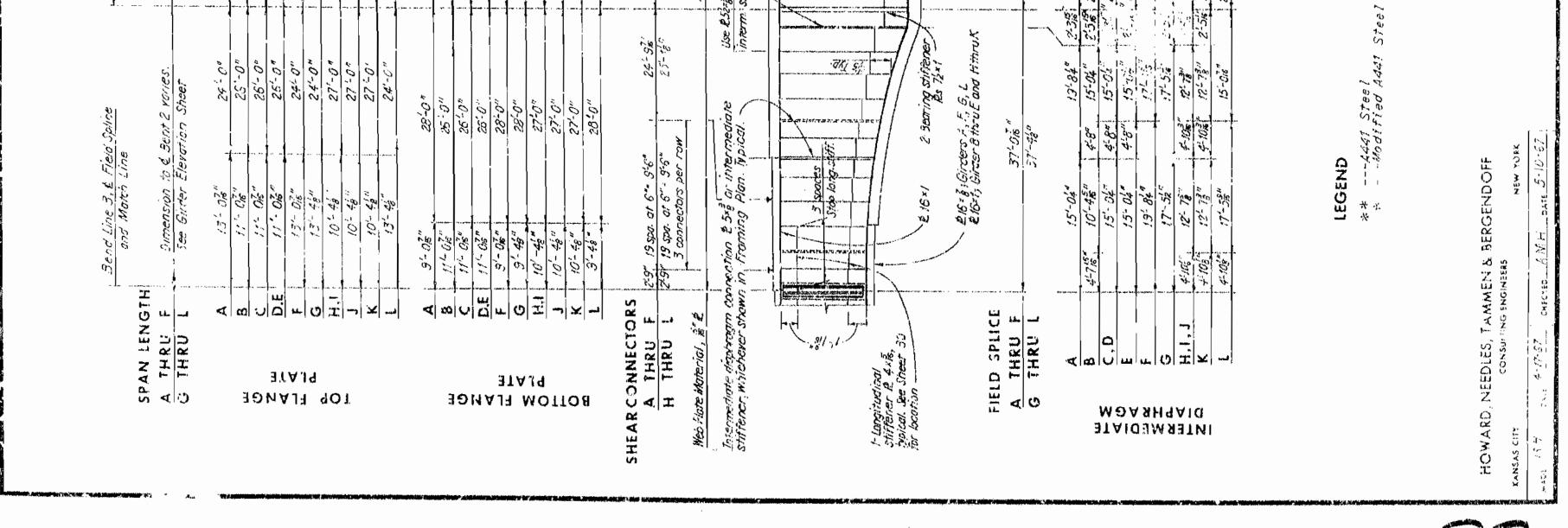
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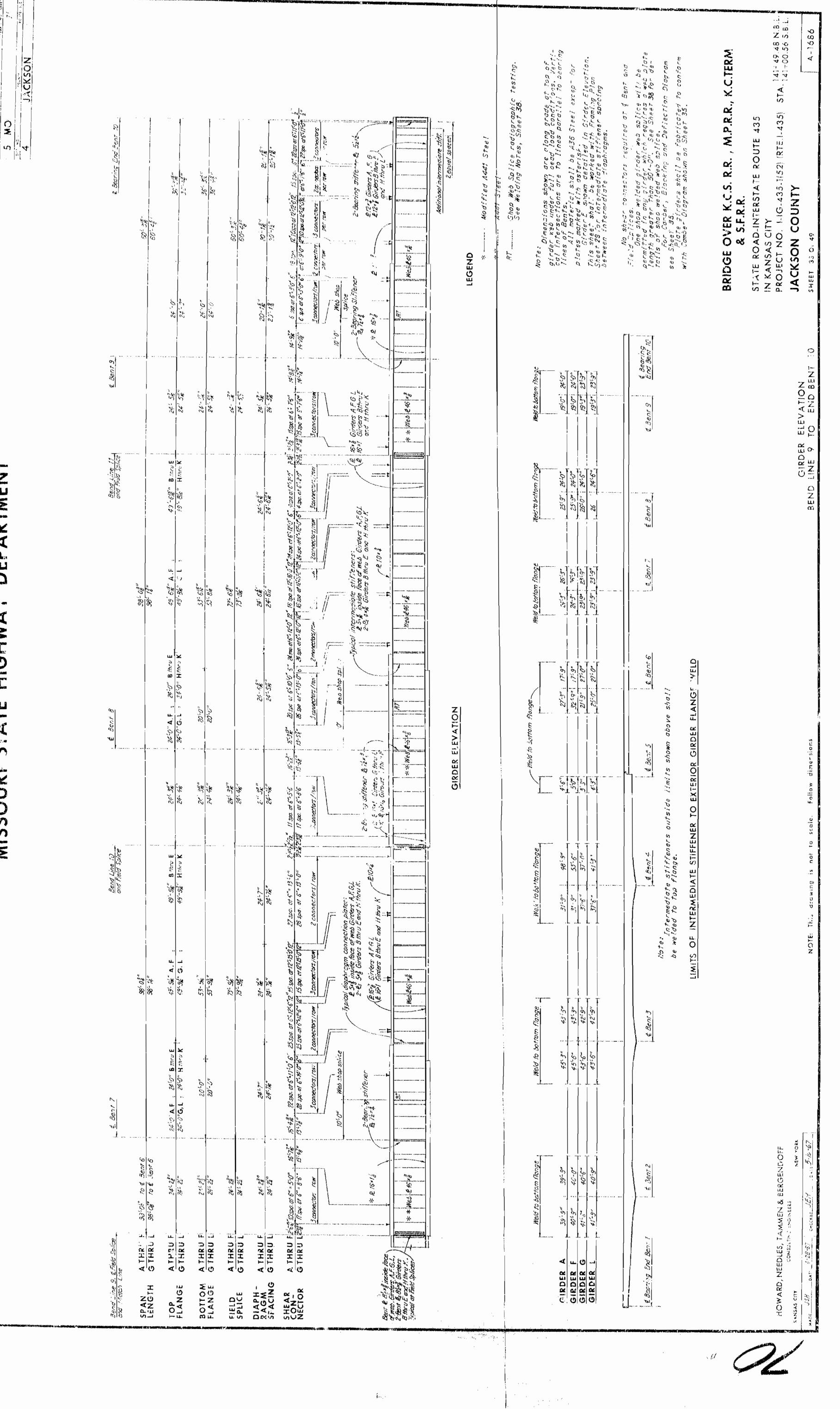
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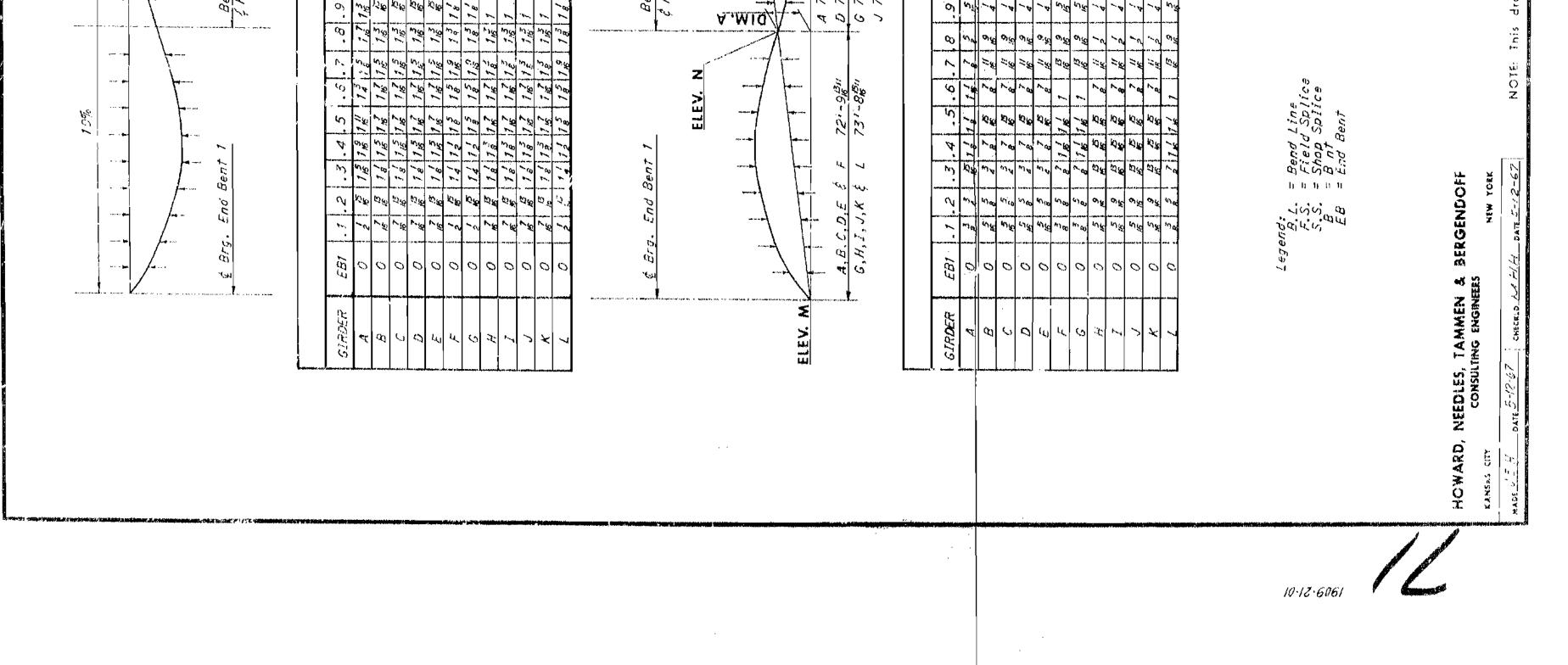
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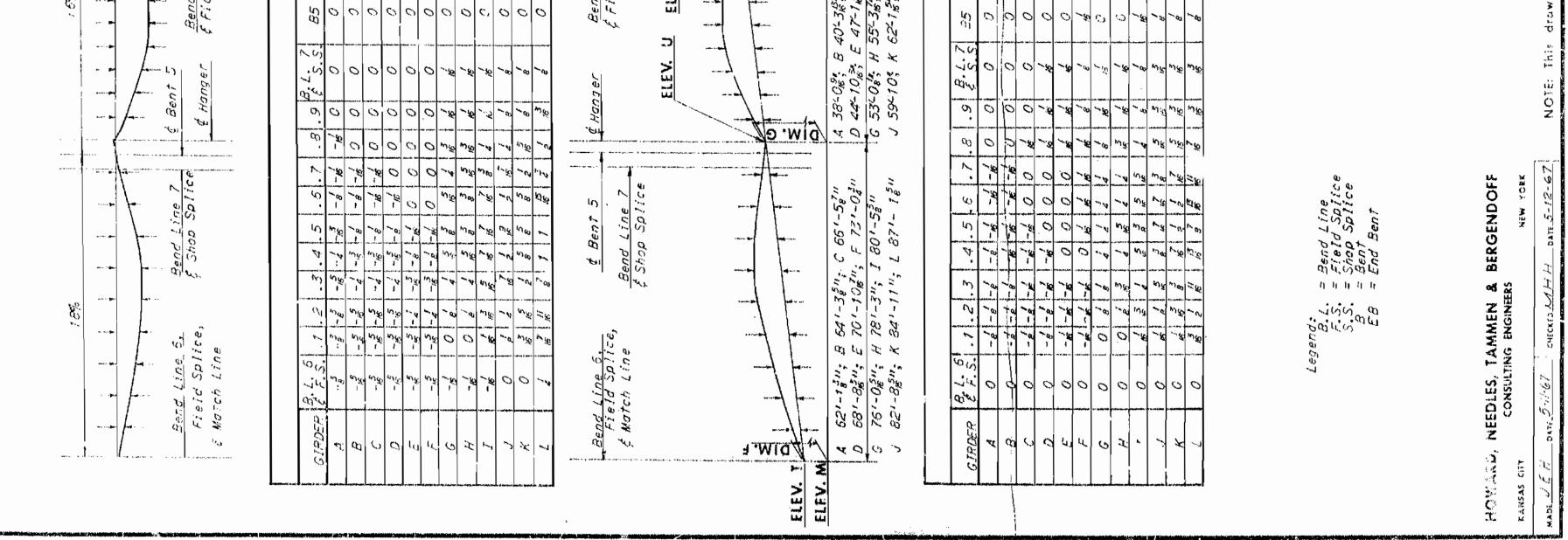
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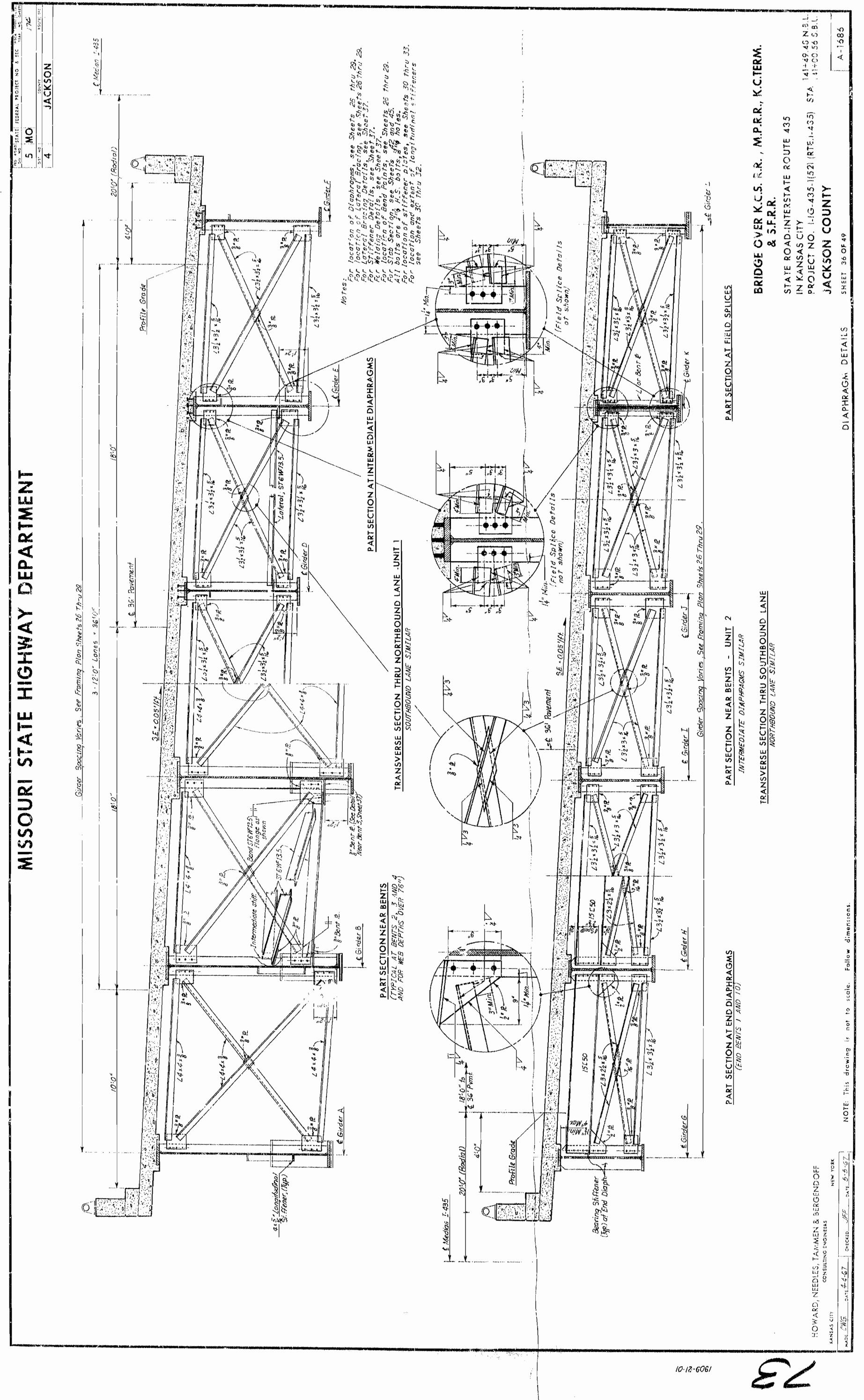


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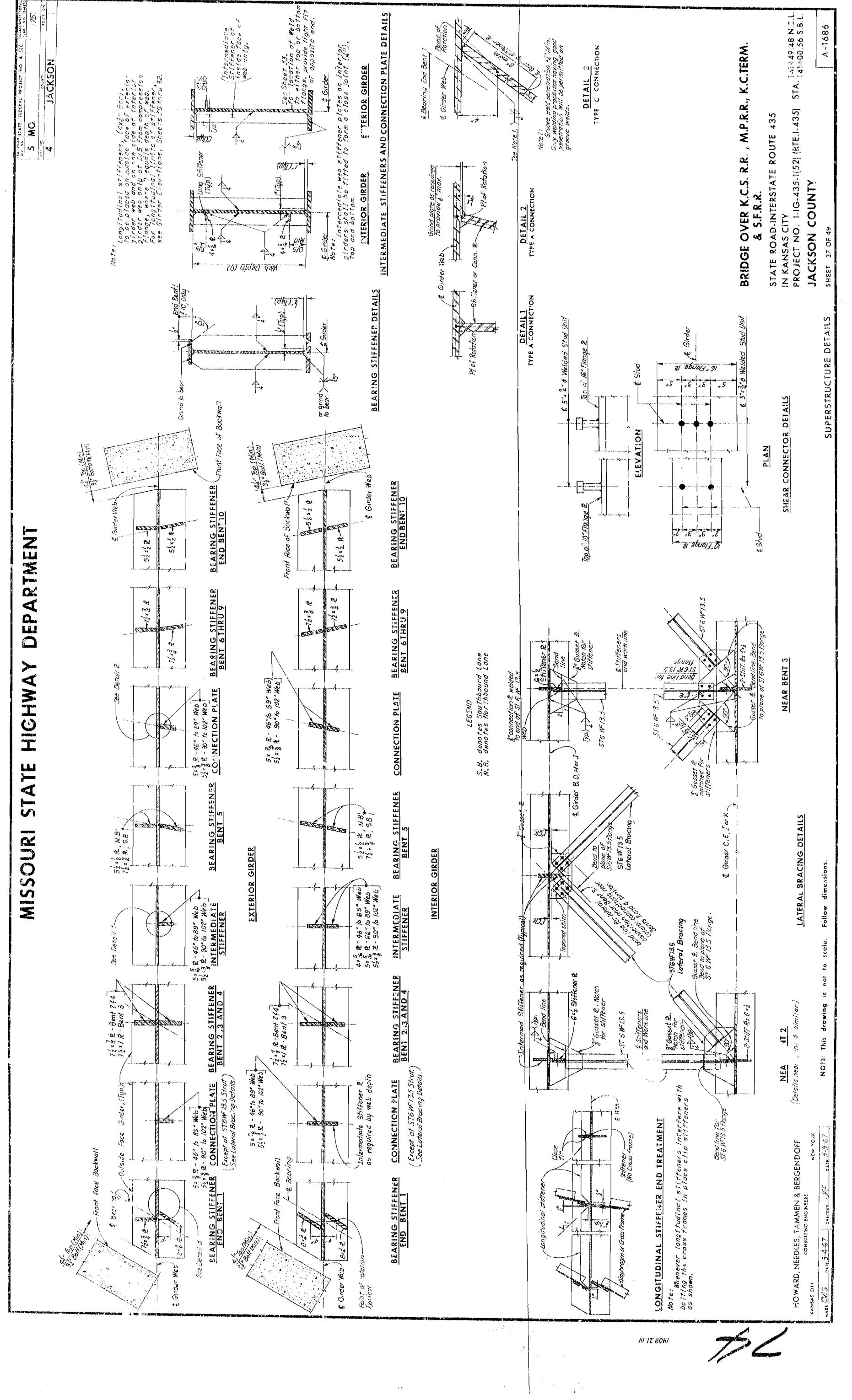
MISSOURI STATE HIGHWAY DEPARTMENT	i Steel	Table Grant and a set of the set	$\frac{1}{E} \frac{1}{E} \frac{1}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	TABLE OF BLOCKING DIMENSIONS AND GLEVATIONS TABLE OF BLOCKING DIMENSIONS AND GLEVATIONS M. G DIM. H DIM. J DIM. K DIM. L ERV. M ELV. T ELV. V ELV.
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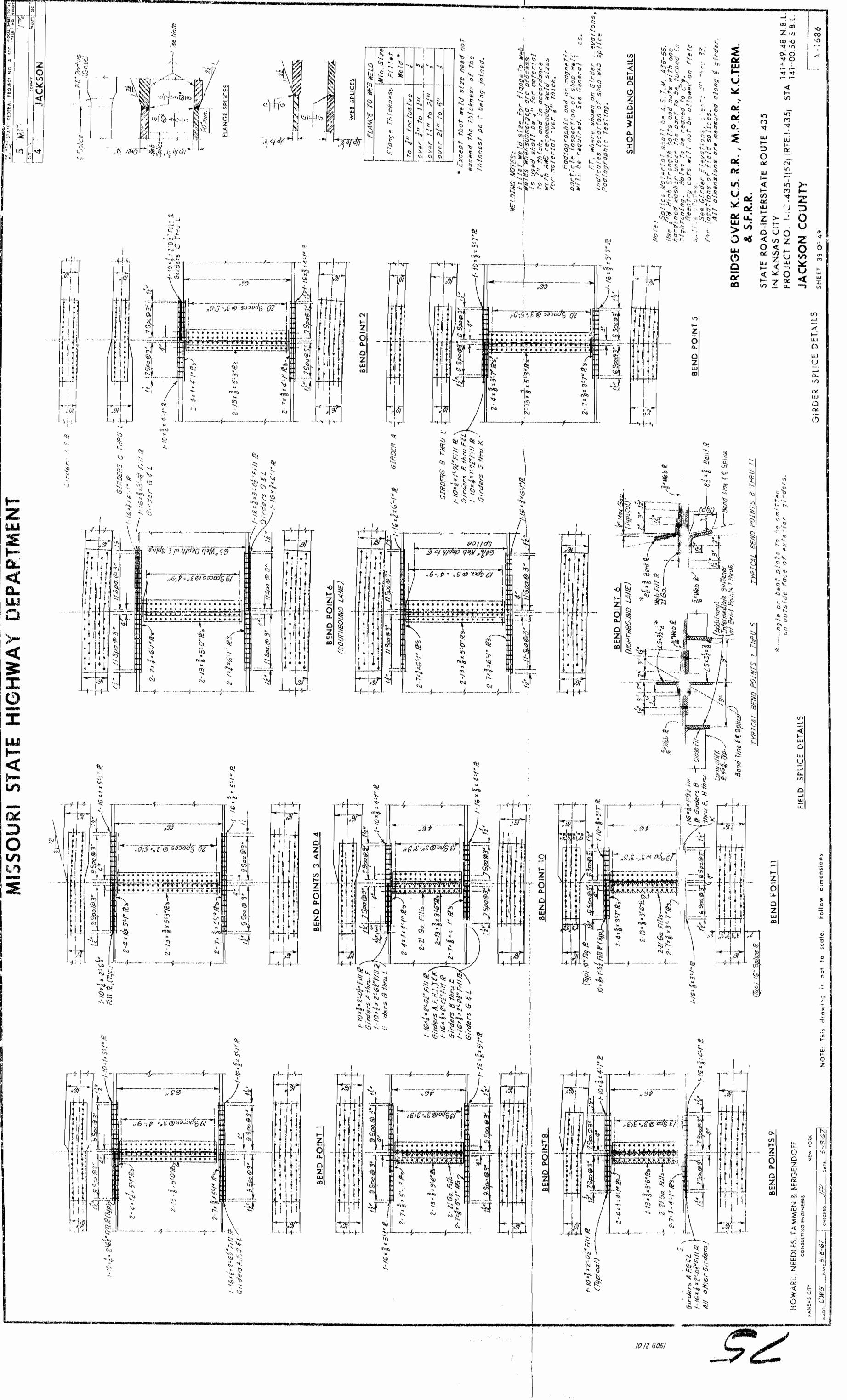


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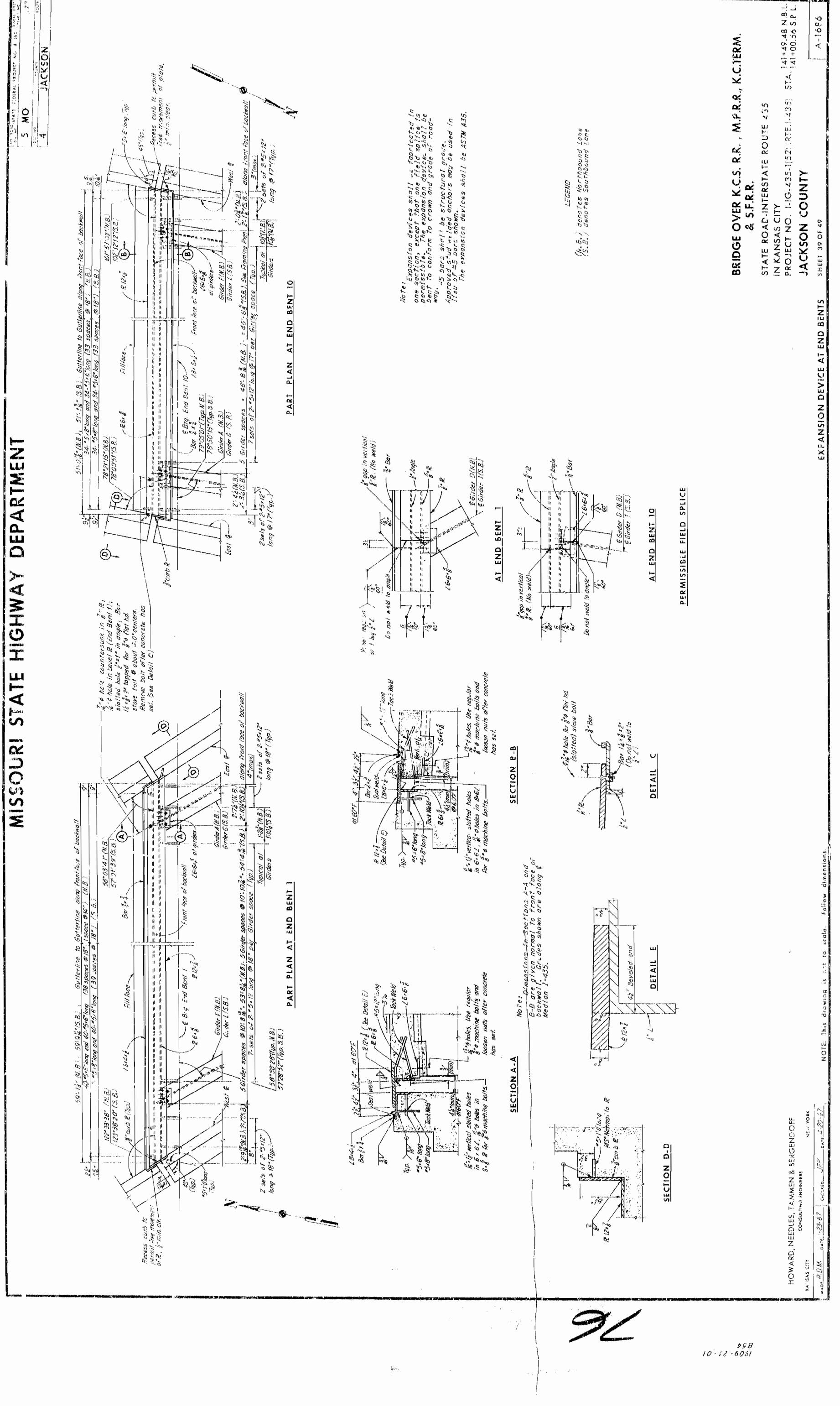
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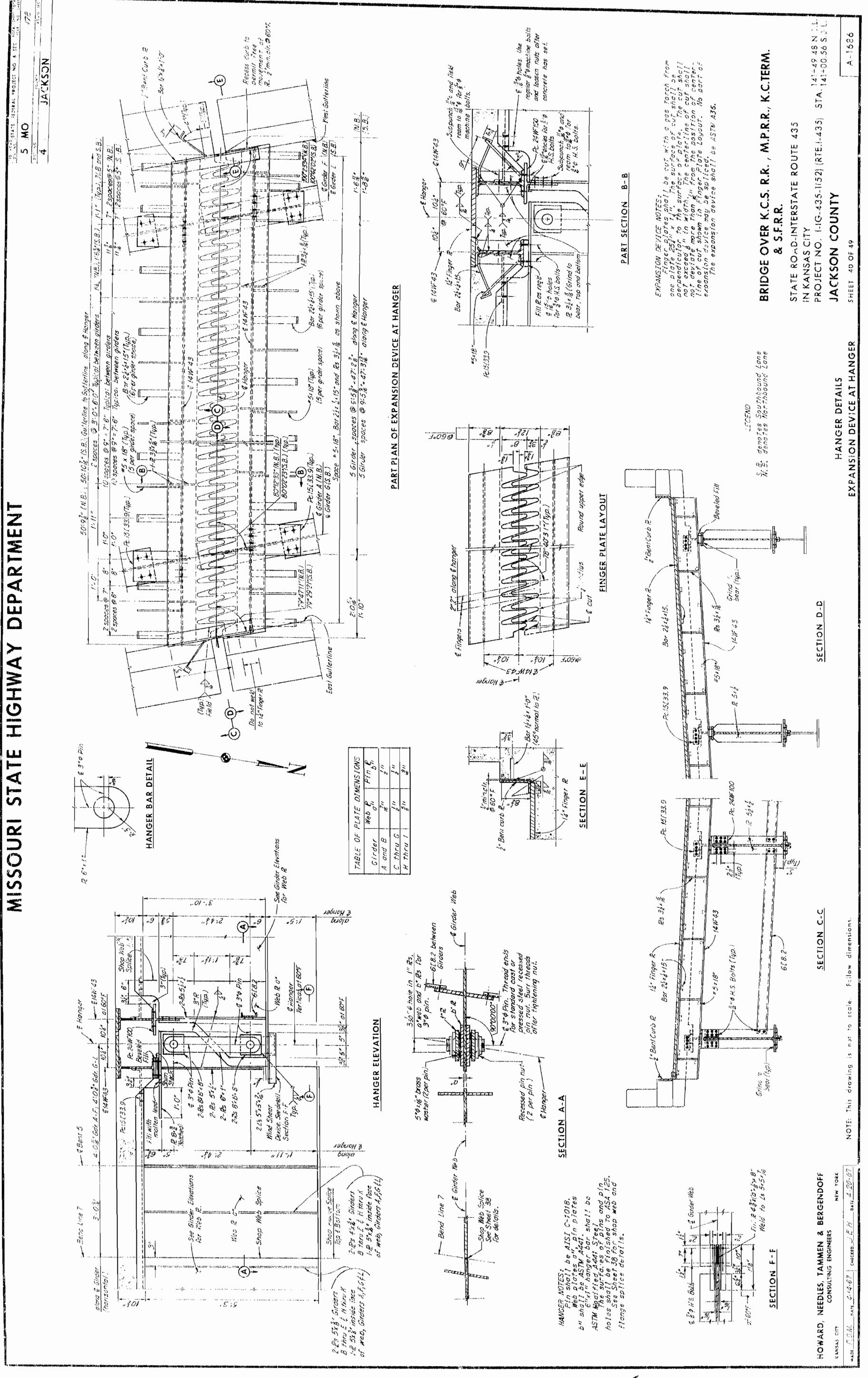








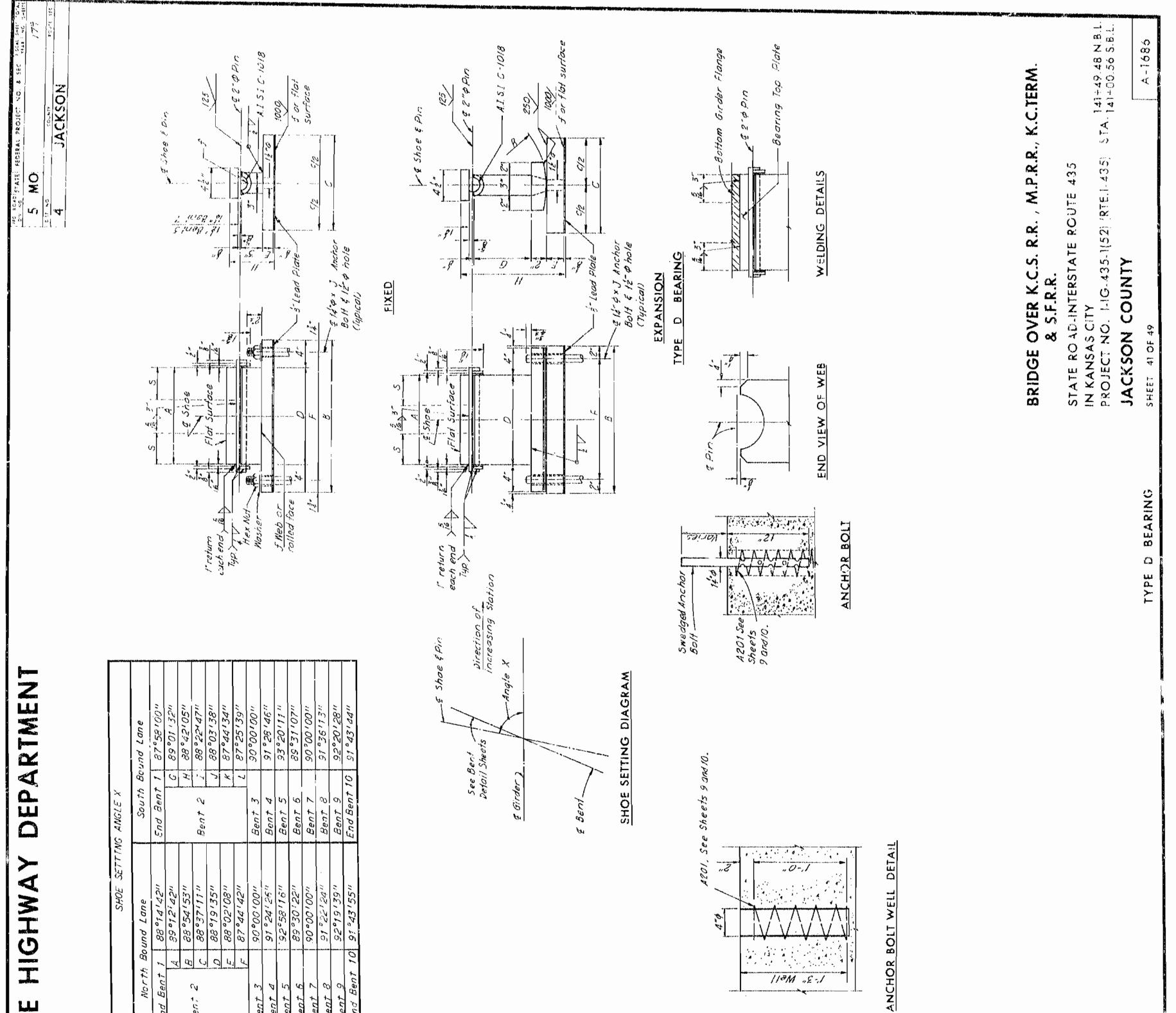




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Notes: Motes: Anchor balts for Type D Bearings shall be 14"% swedged balts and shall extend 12" into concrete, with hexagon nuts and plain washers for Fixed Bearings, no nuts for Expansion Bearings. Lead plates under bearings shall be approximately 4" Lead plates under bearings shall be approximately 4" thickness and weigh 8 %sq.ft. Costof lead plates shall be included in price bid for other items. Weight shown in table does not include weight of anchor bolts. Pockers and pedestals shall be machined after welding, where flat surface is indicated, tolerance shall be 0.003% in any direction. For knchor Bolt Setting Plan, see Bent Defail Sheets. for fabricated Structural Carbon Steel.

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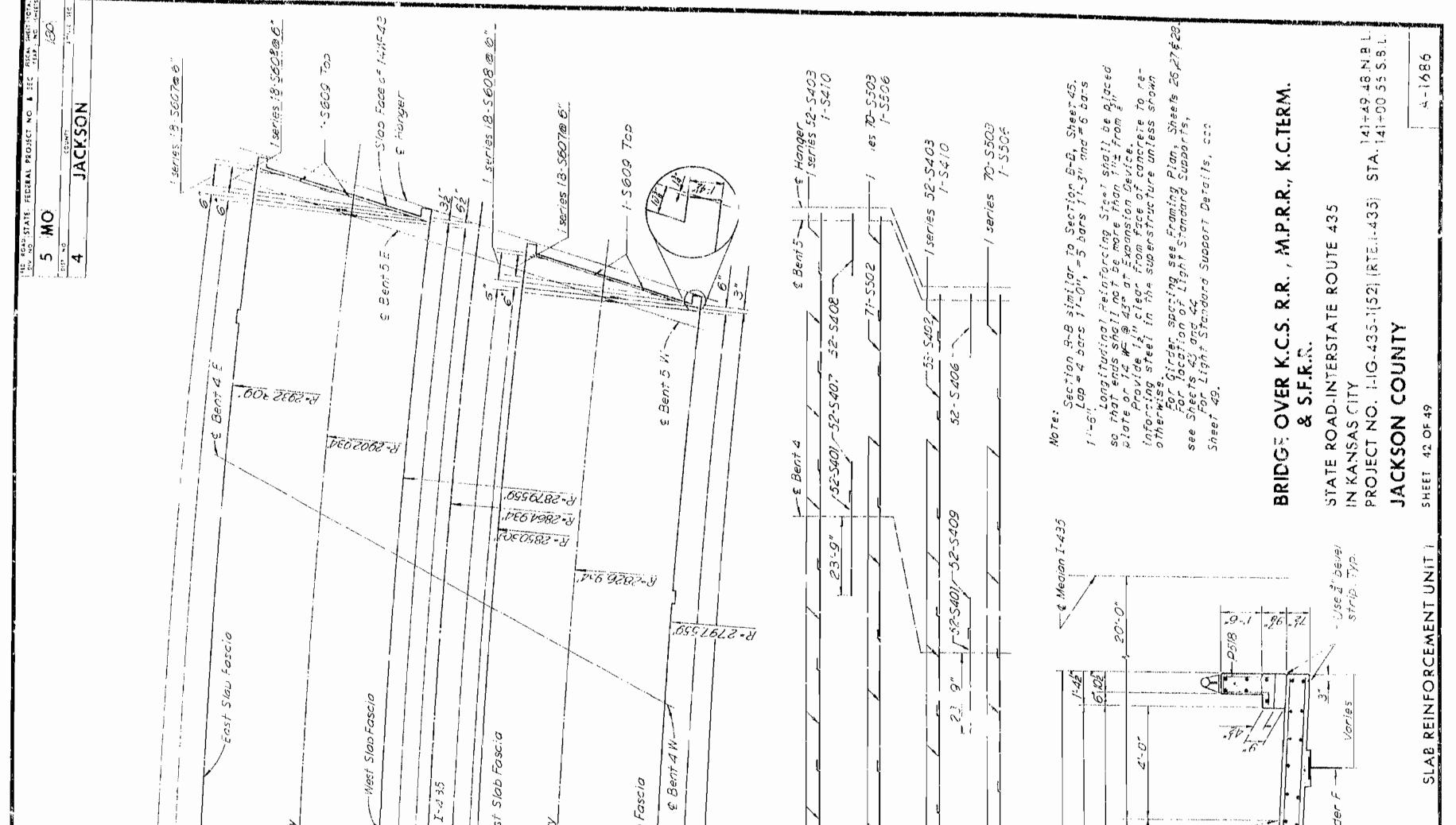
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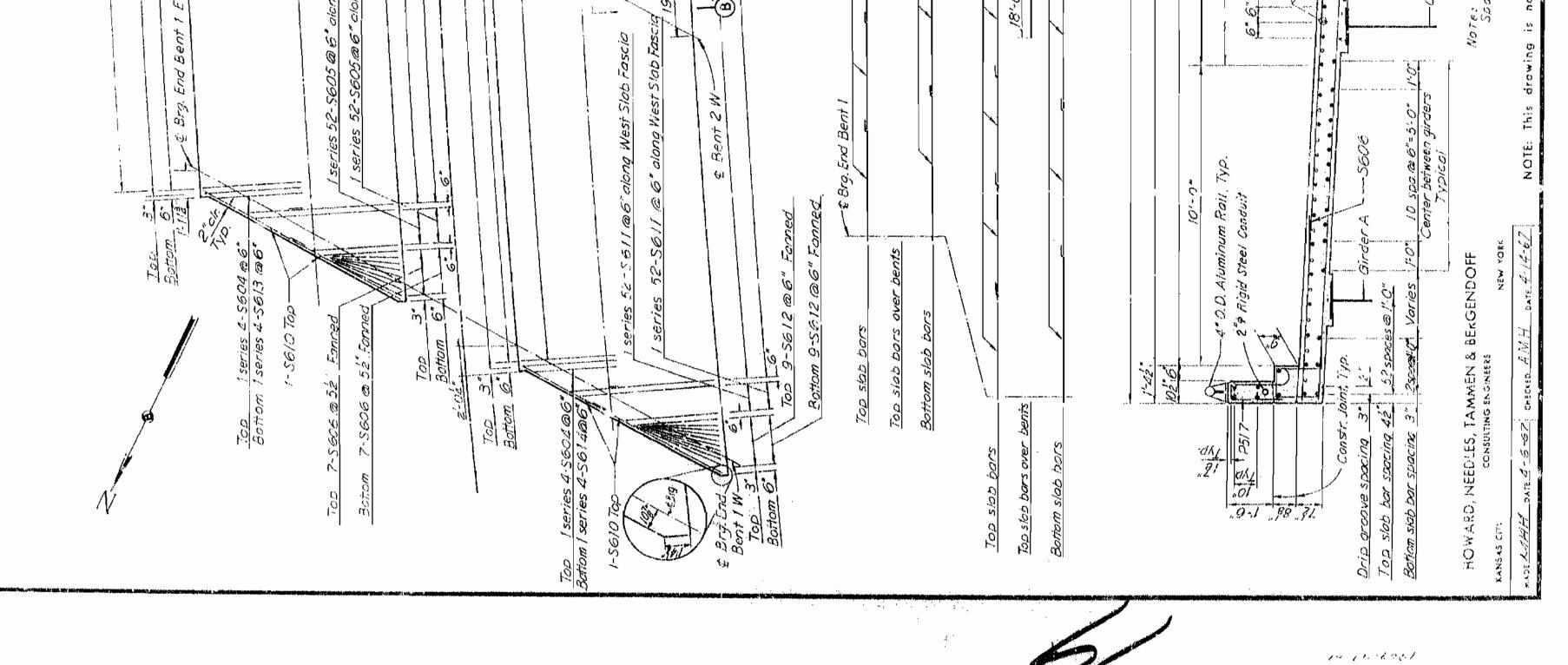
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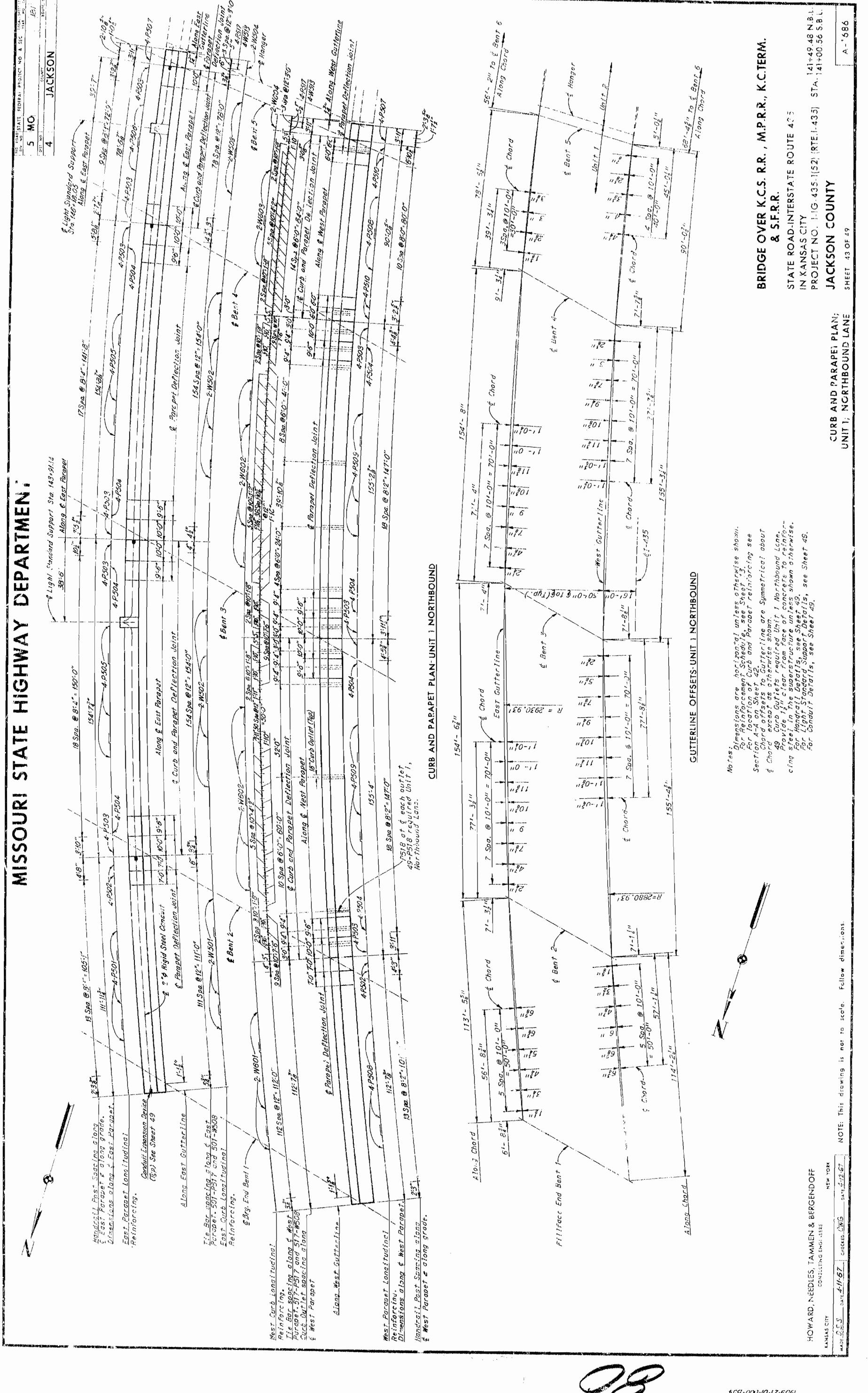
RI STATE HIGHWAY DEPARTMENT	22'-0" Top Que 100 East 100 Ease 100 Ea	¢ Girder A € Girder B ¢ Girder E € Girder E € Girder E	992-5601@6" along East Slab Fascia 991-5603@6" along East Slab Fascia 1032-5601@6" along East Slab Fascia 1032-5603@6" along East Slab Fascia 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010	E Girder H E Girder I E Girder J SouthEsund Lon Girder K	1036 - 5601 @ 6" along East Siab Fascia 1036 - 5601 @ 6" along East Siab Fascia 1036 - 5602 @ 6" along East Siab Fascia PLAN - UNIT 1	-£ Bent 3 - 58-5401 - 52-5405 - 71-5501 - 71-5501 - 53-5401	23'.9"	36"-0" Povement Wiath E 36'-0" Pavement E 36'-0" Pavement Profile Grade	205% 530/ 72 S/35 (including 550/ 72 S/35 (including 550/ 7 7 8 550/ 7 7 8 550/ 7 7 8 550/ 7 7 8 550/ 7 7 8 550/ 7 7 8 550/ 7 6 8 550/ 7 6 8 550/ 7 6 8 550/ 7 6 8 550/ 7 6 8 550/ 7 6 8 550/ 7 6 8 550/ 7 6 8 6 6 7 6 7 6 7 6 6 7 7 7 7 7 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
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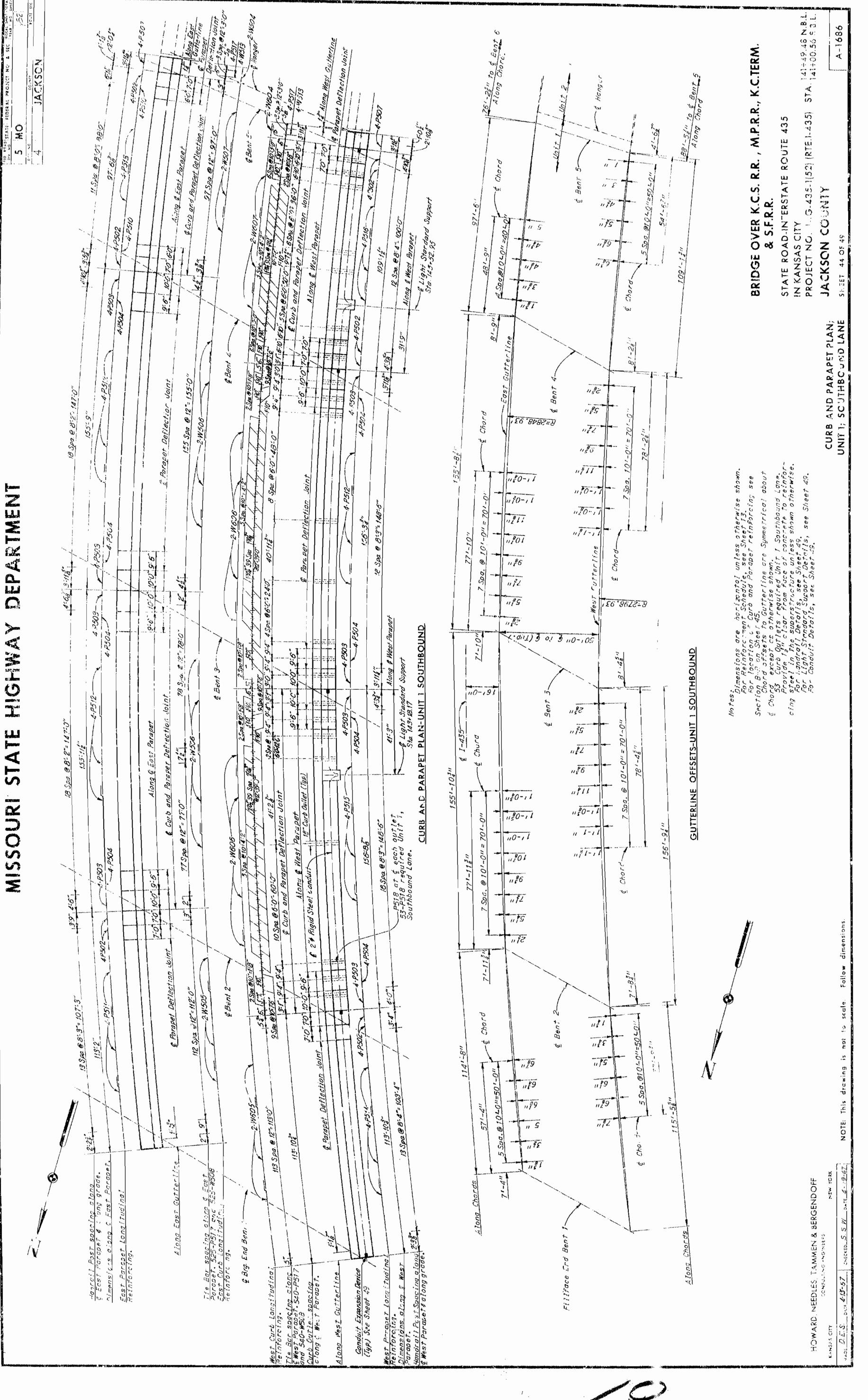




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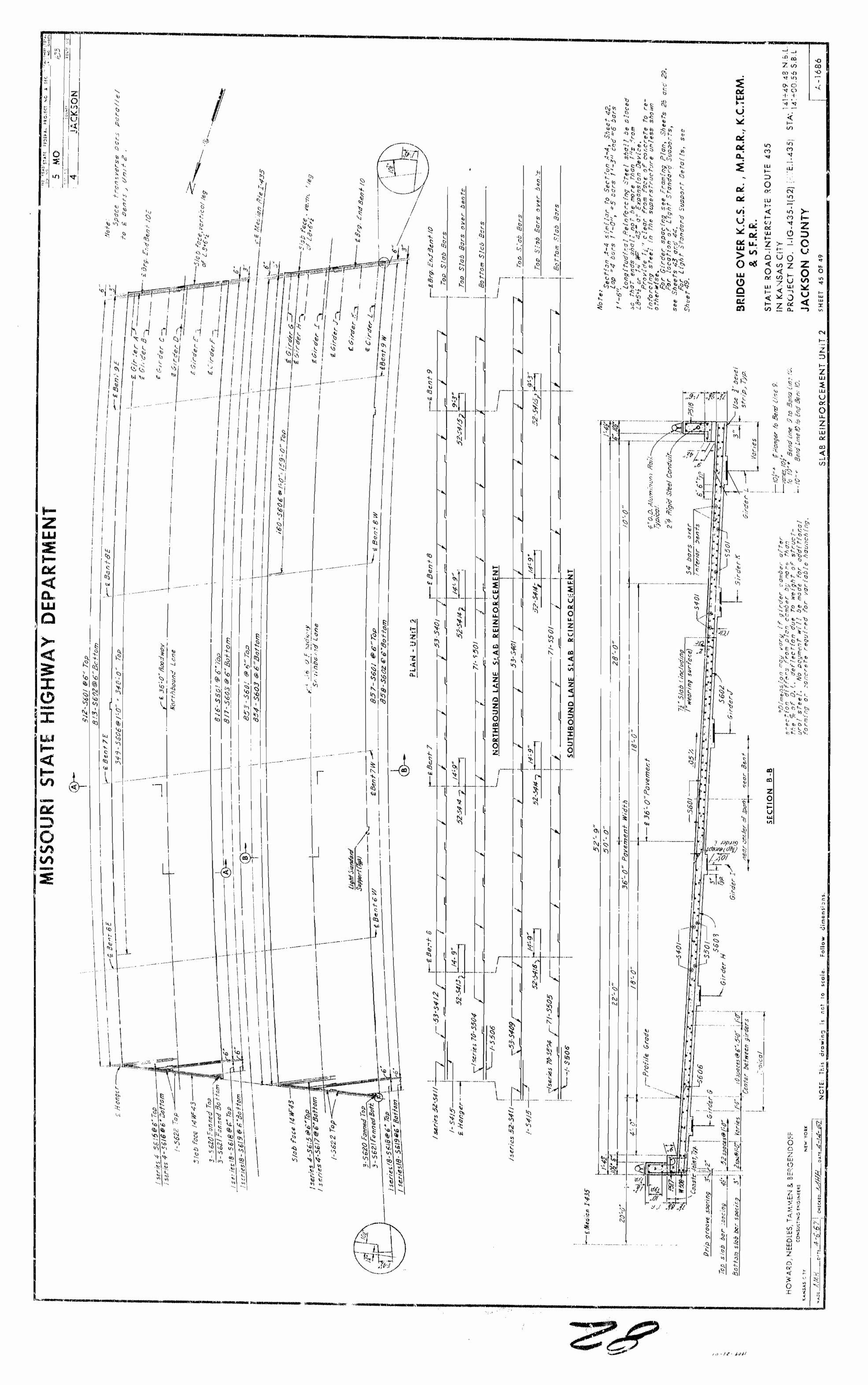
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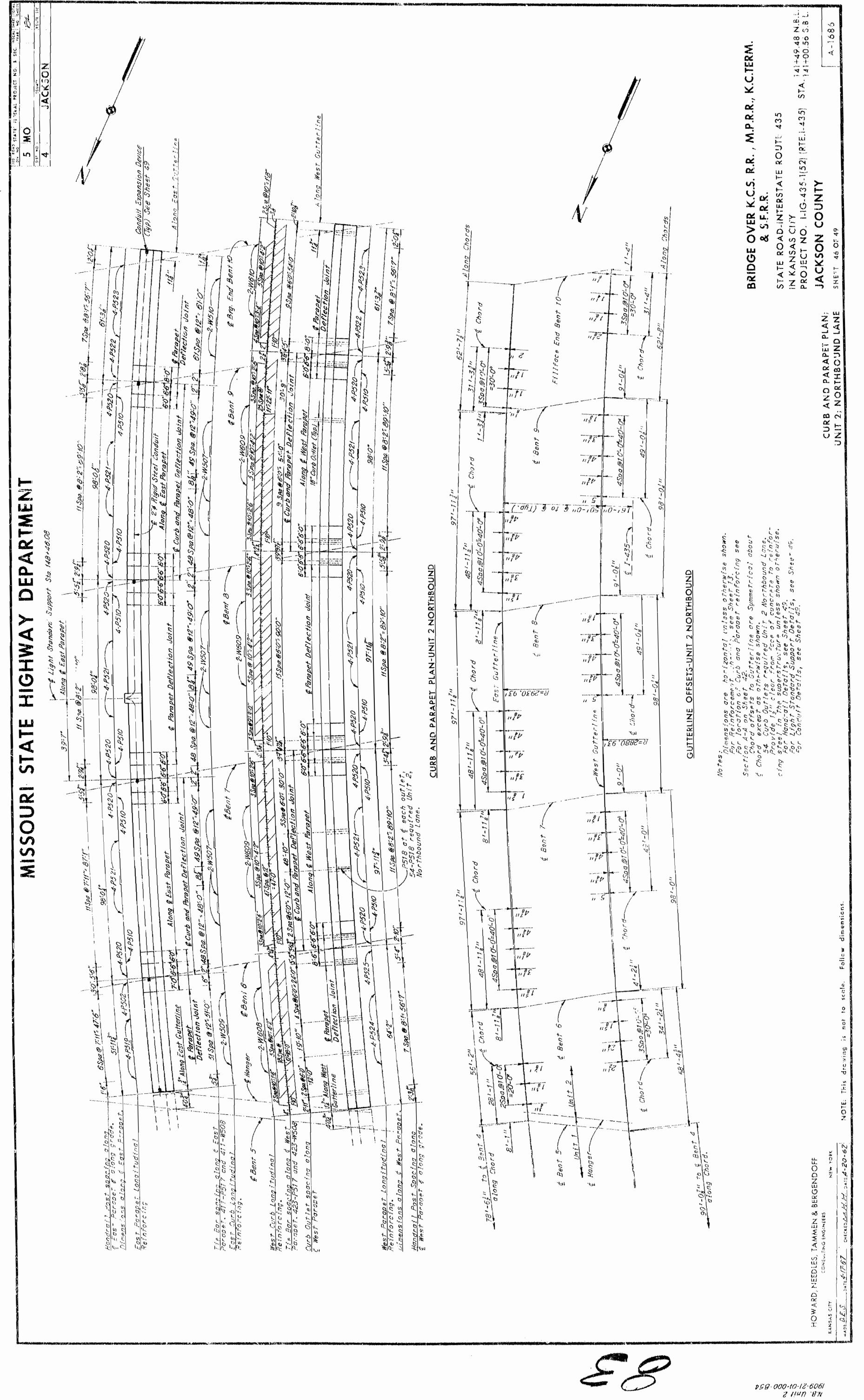
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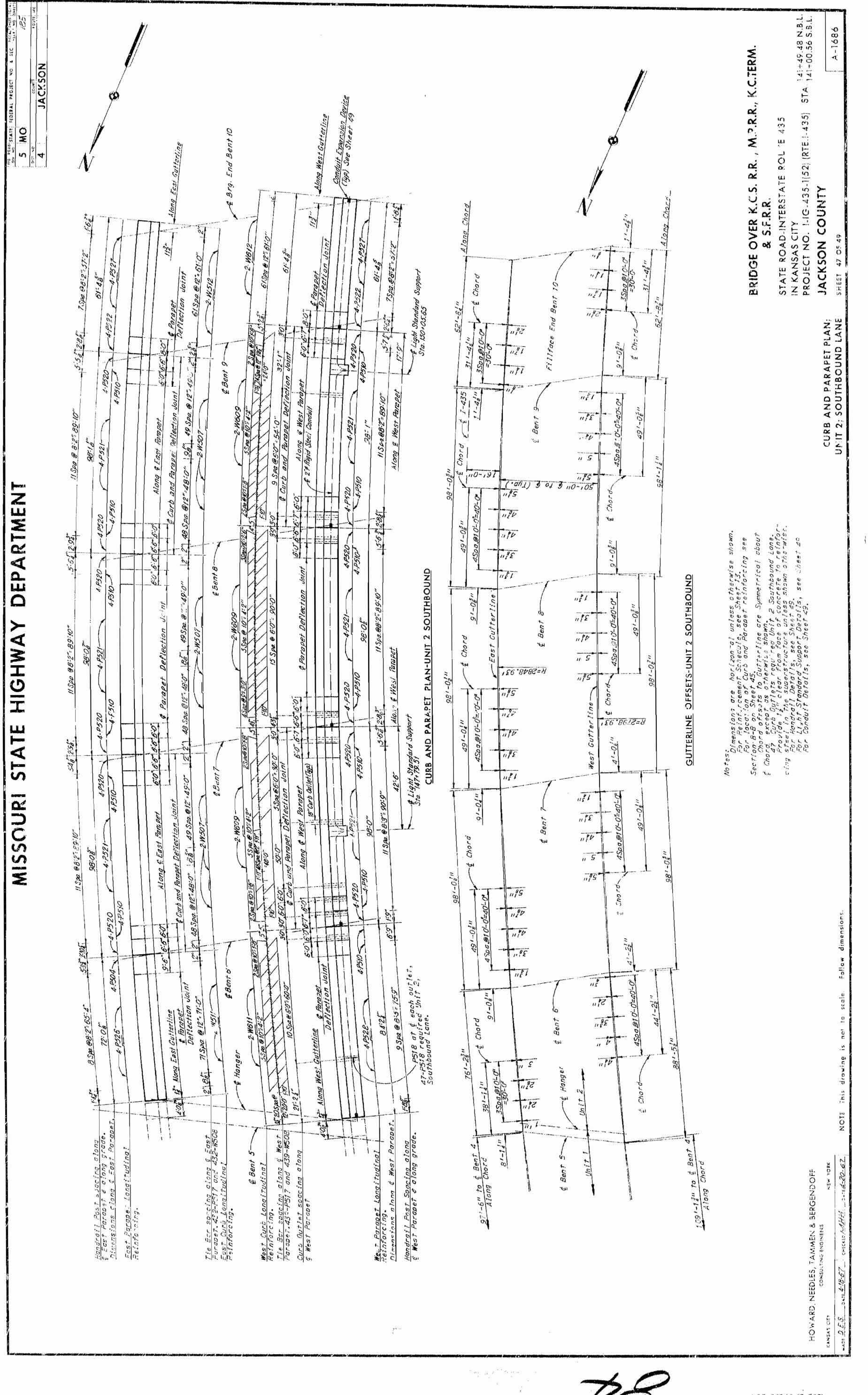


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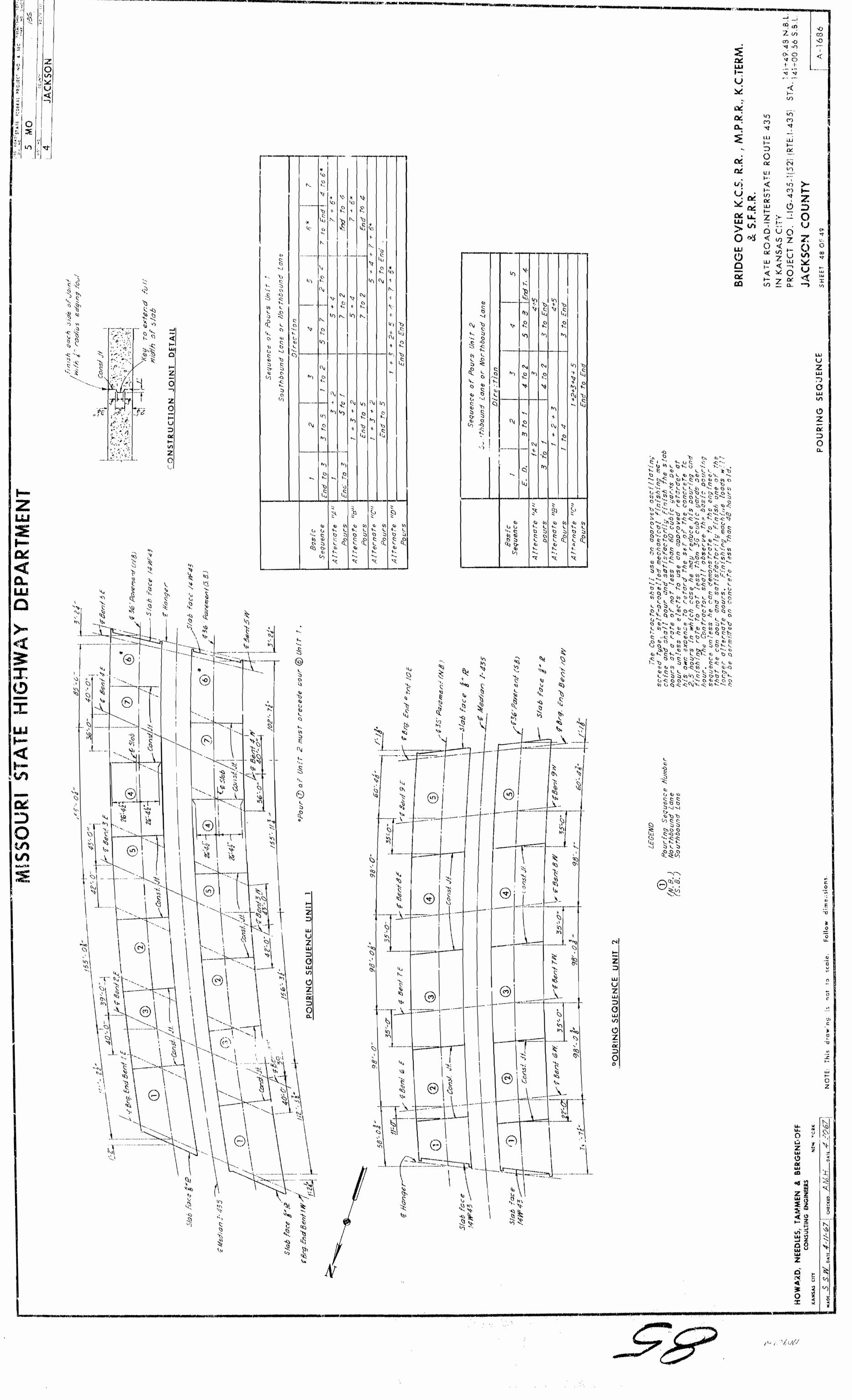
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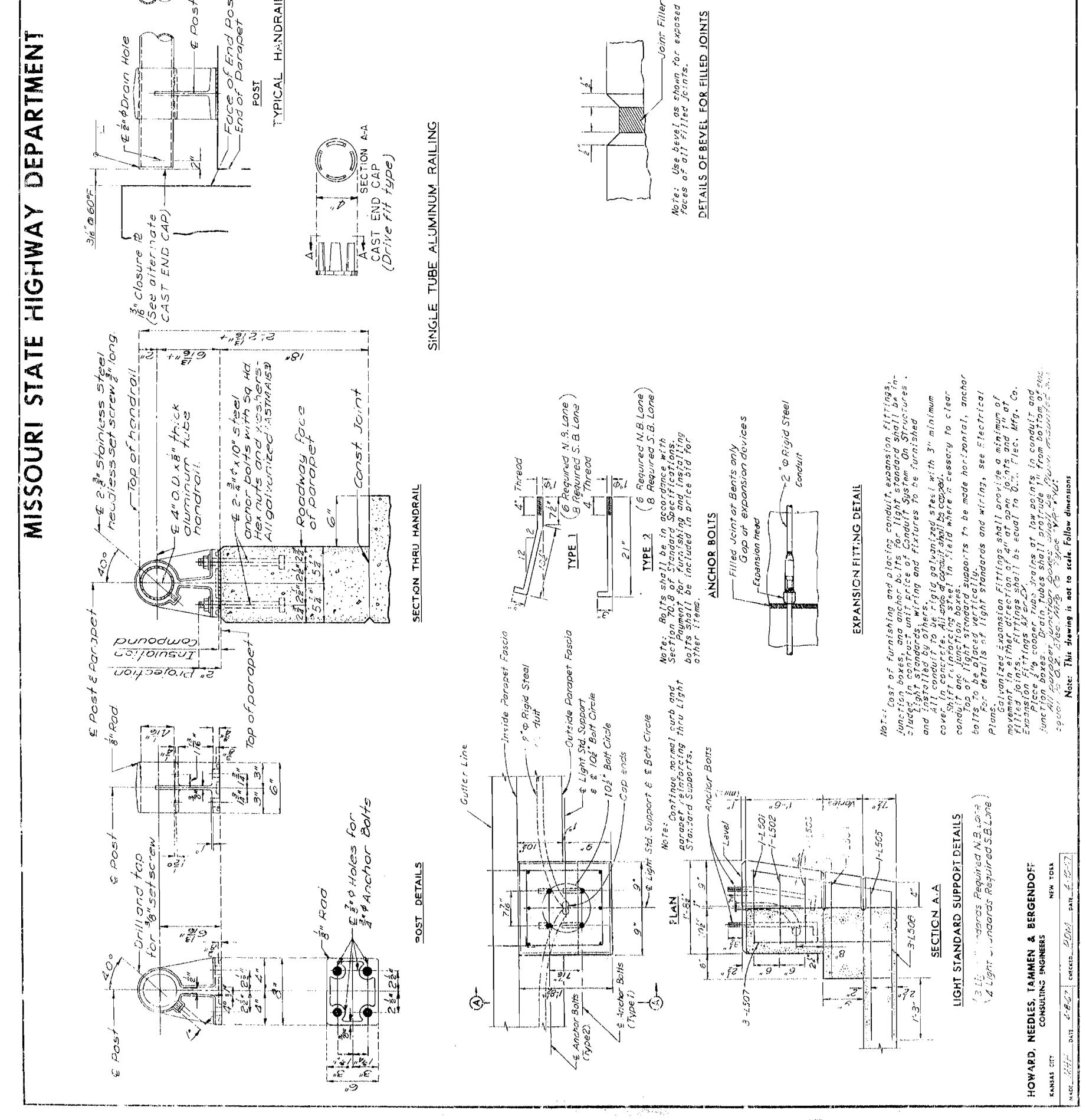
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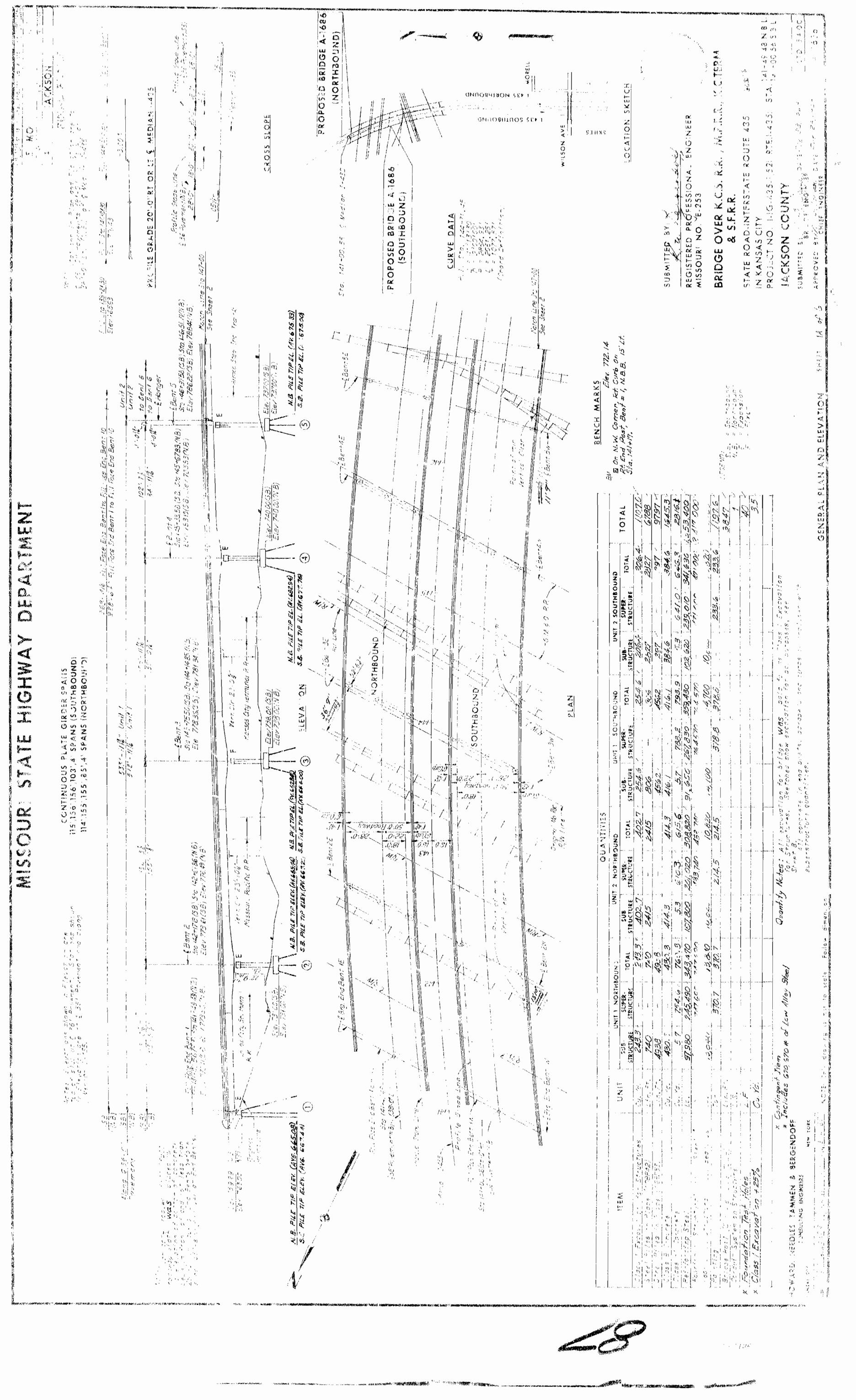
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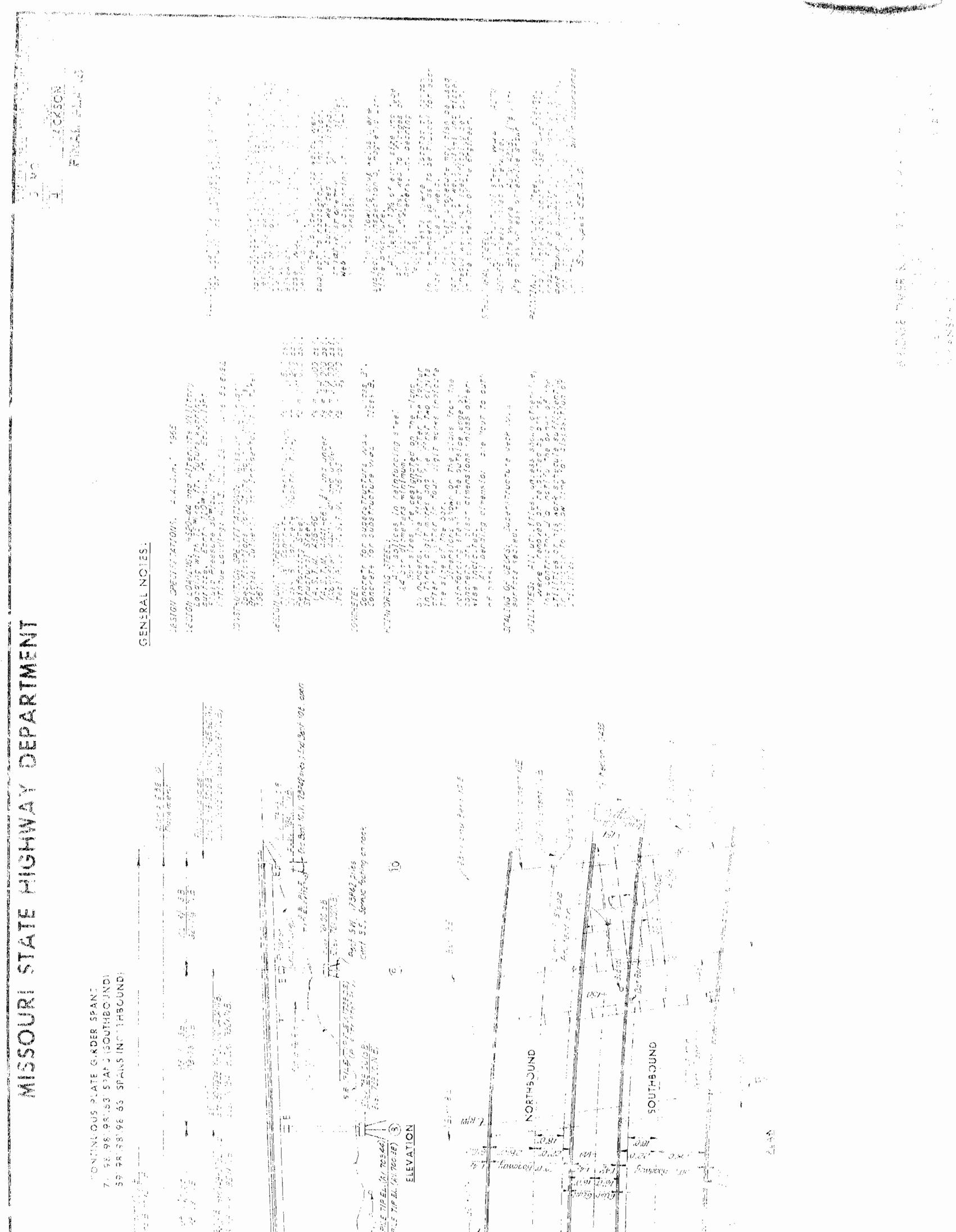
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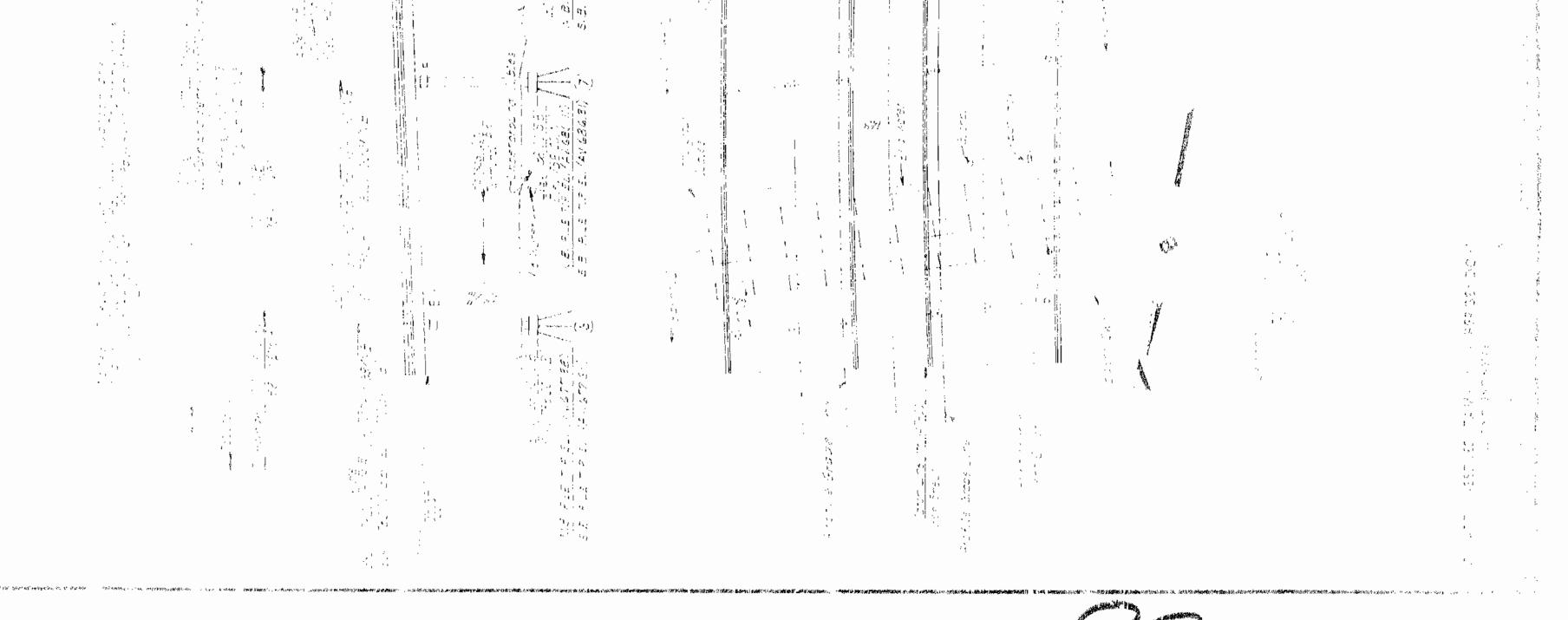


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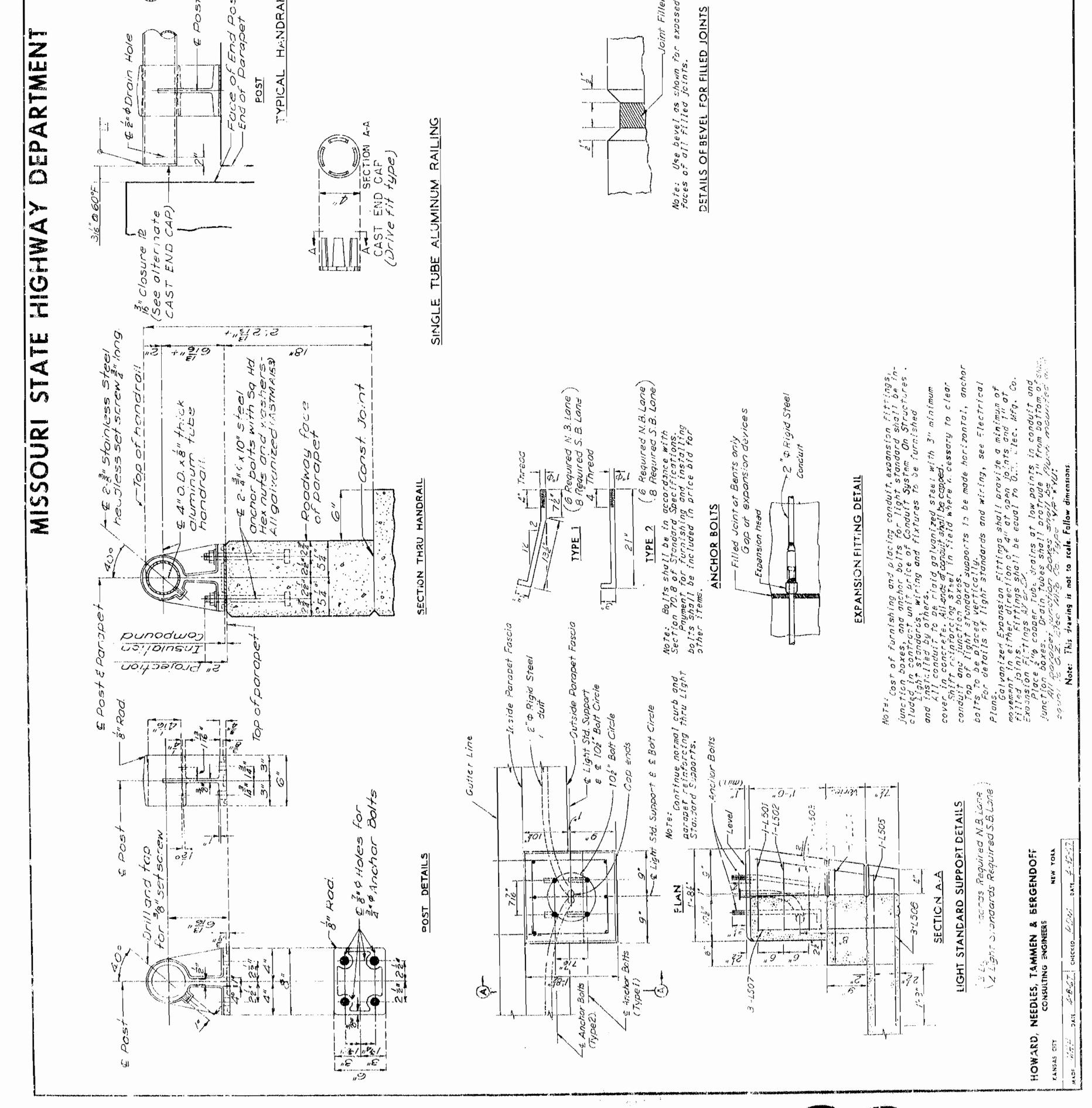






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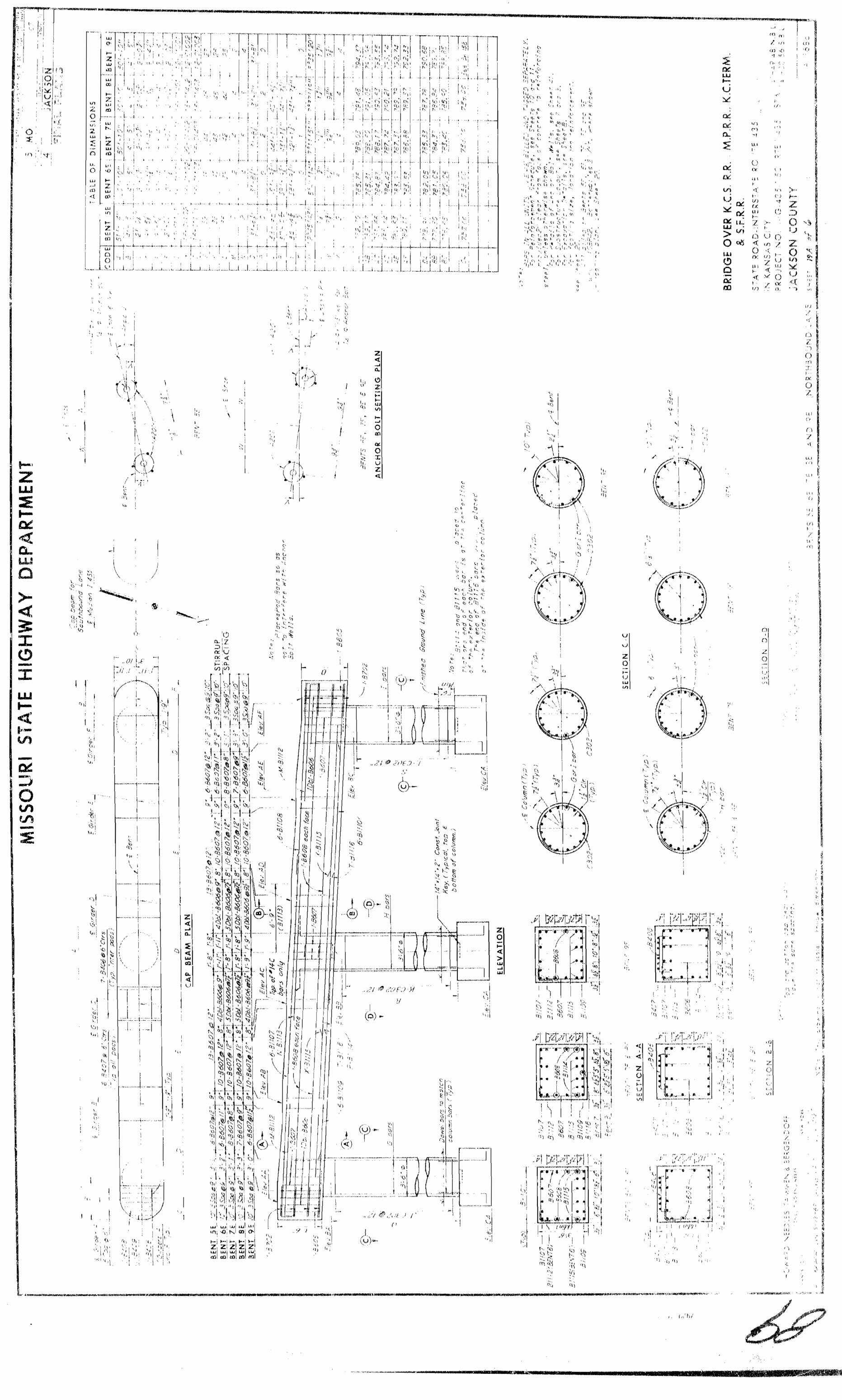
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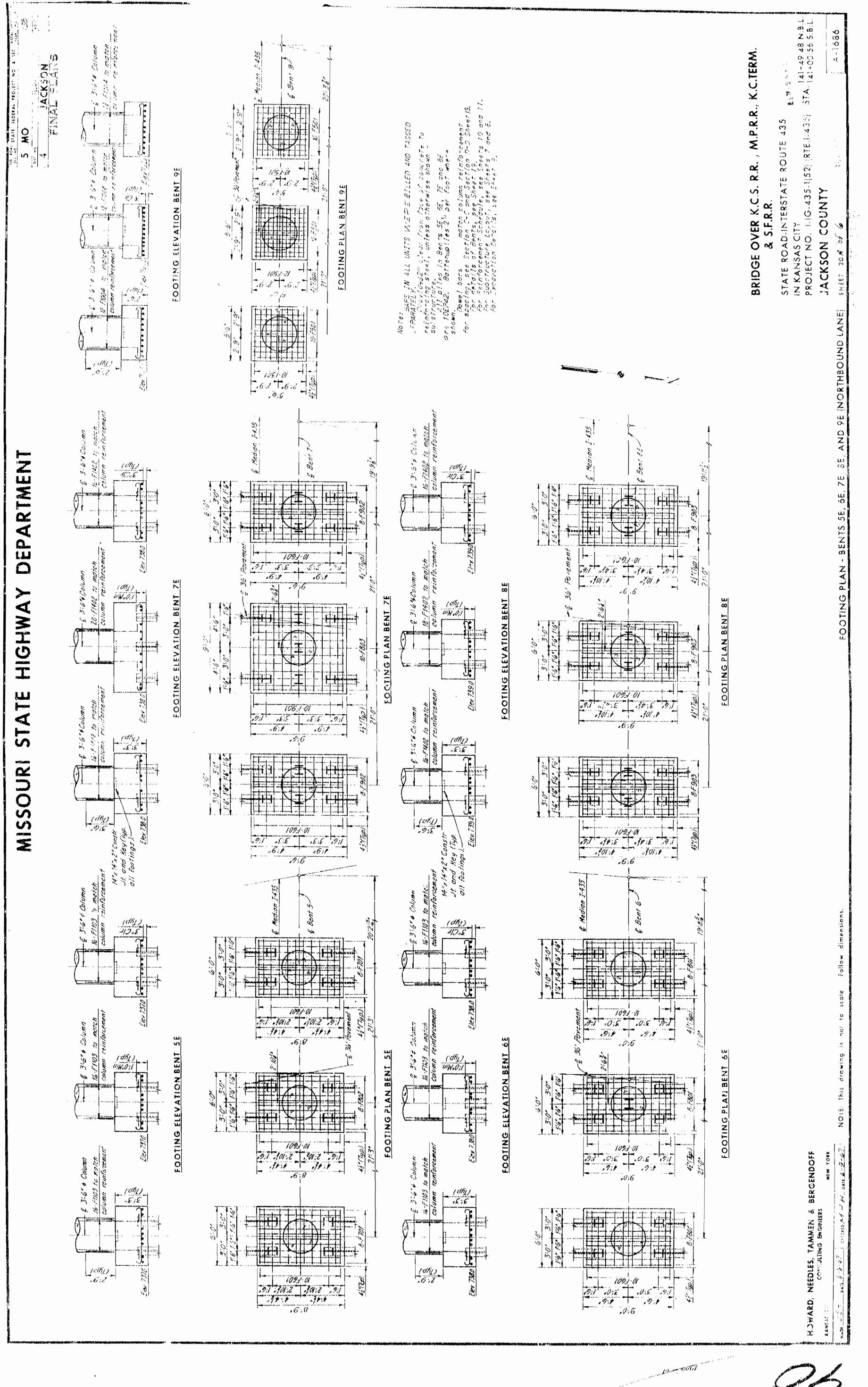
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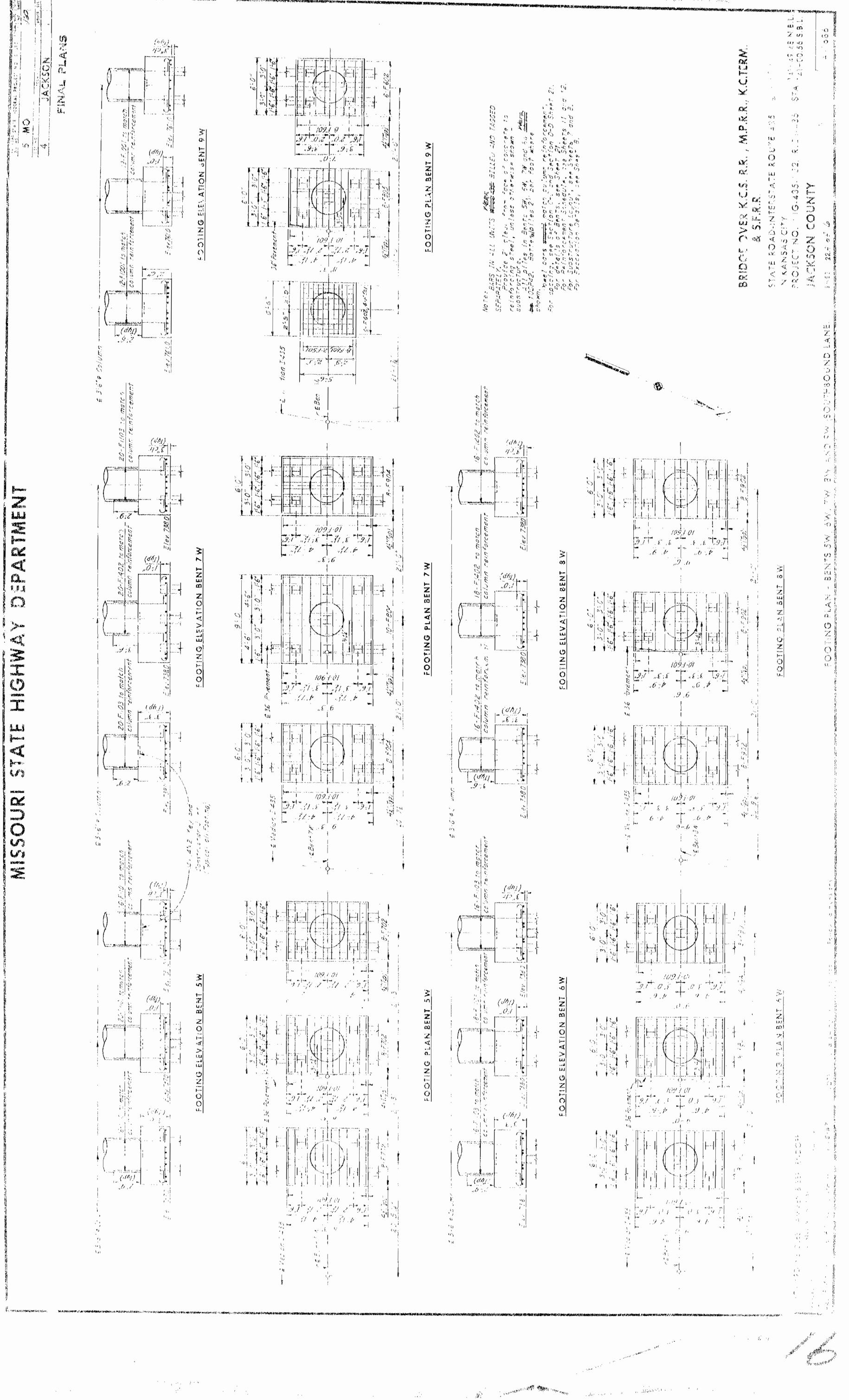


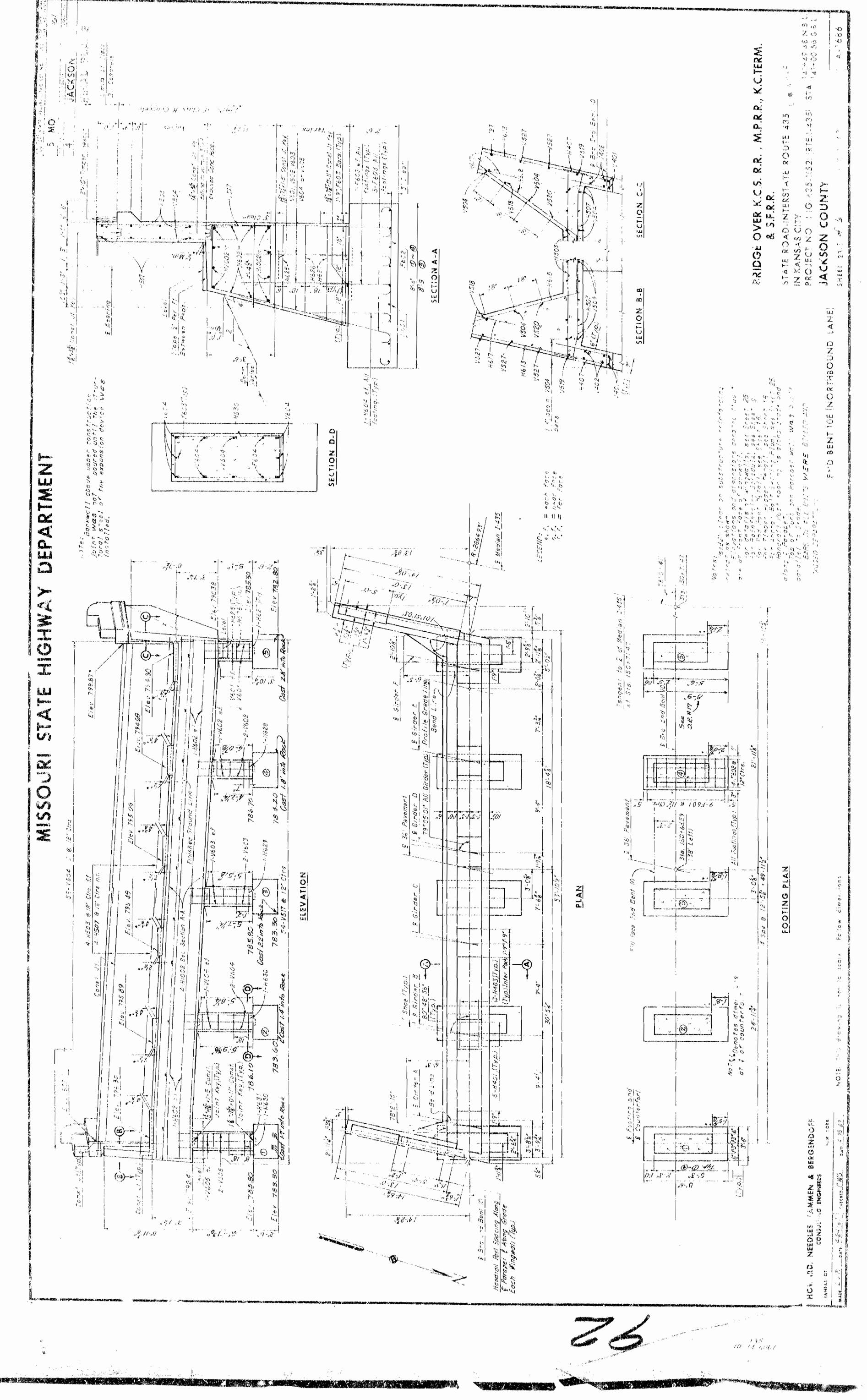
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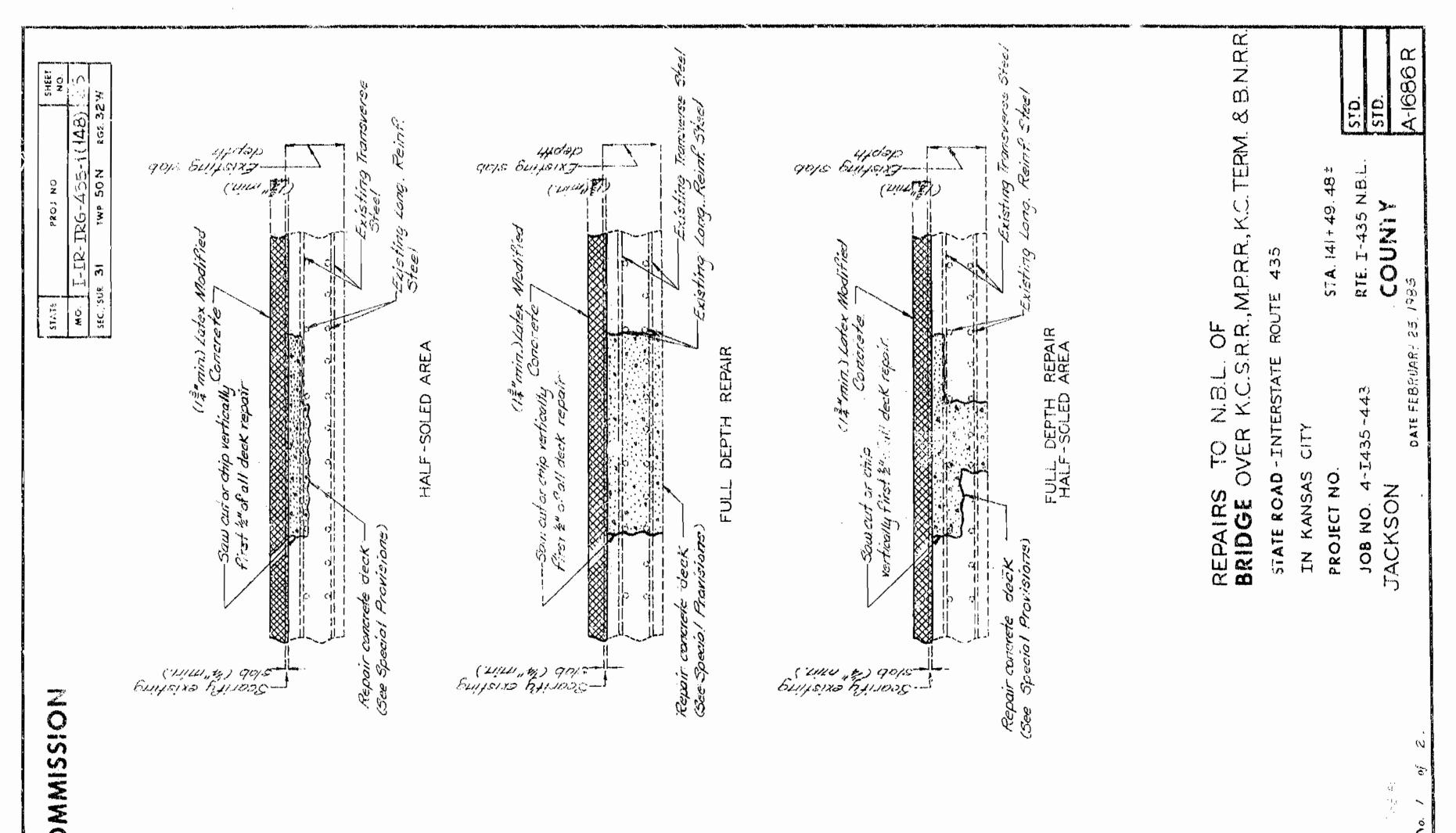
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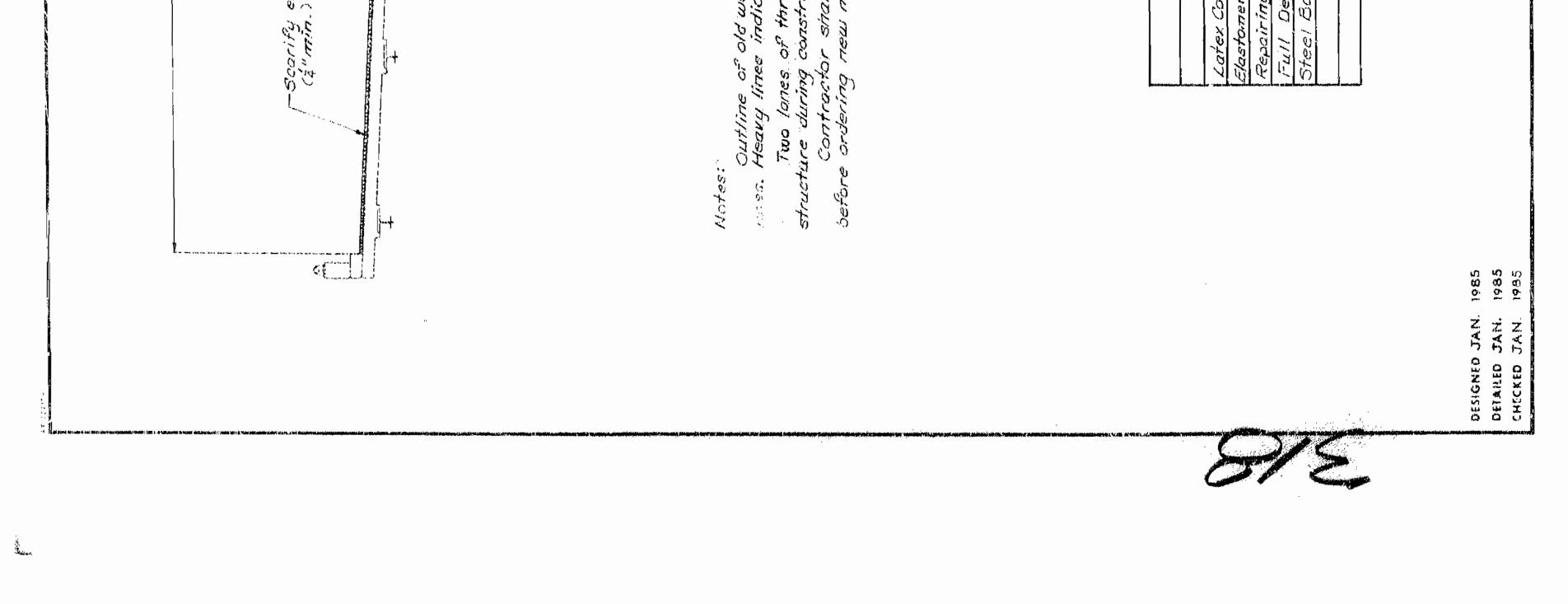


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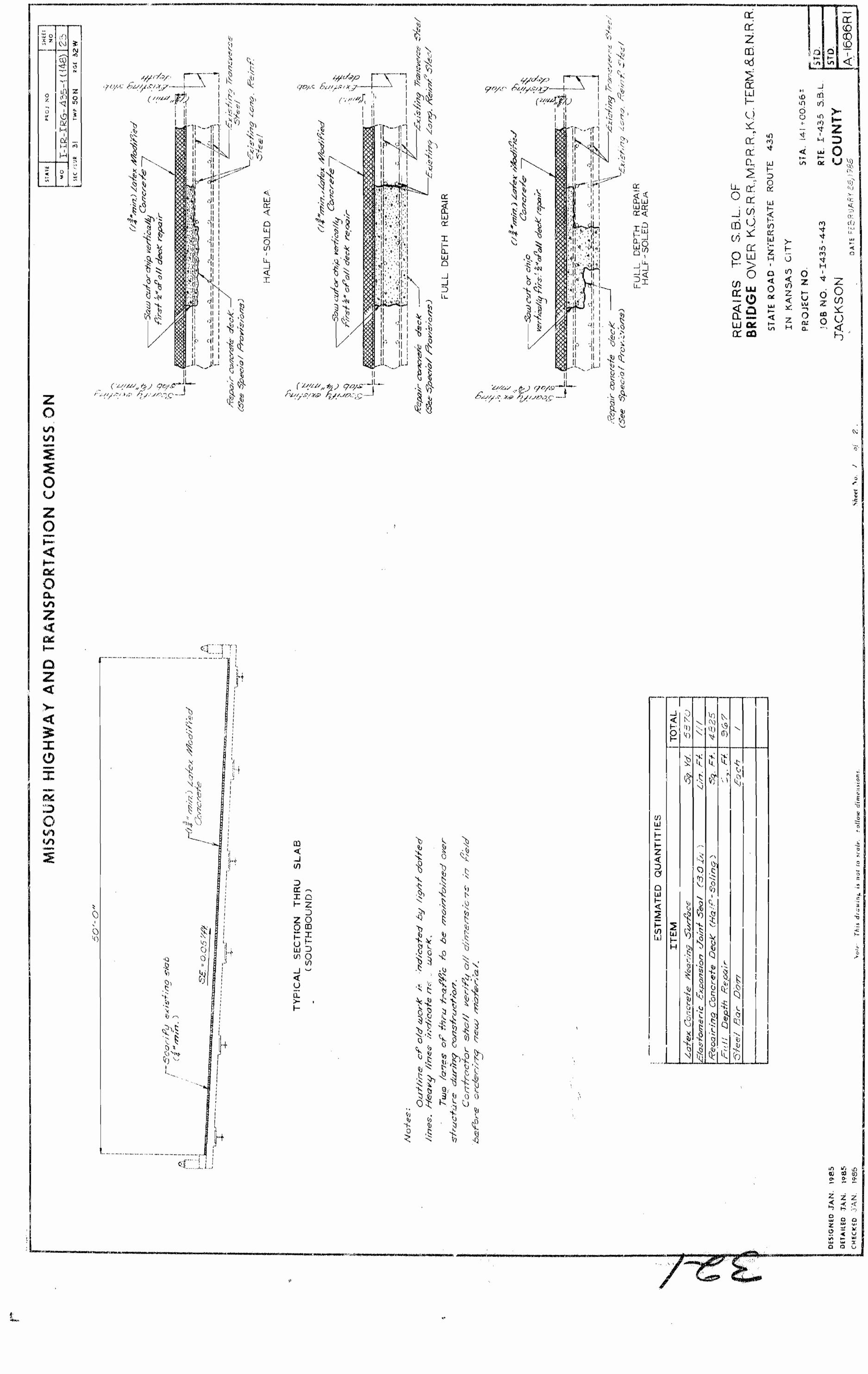


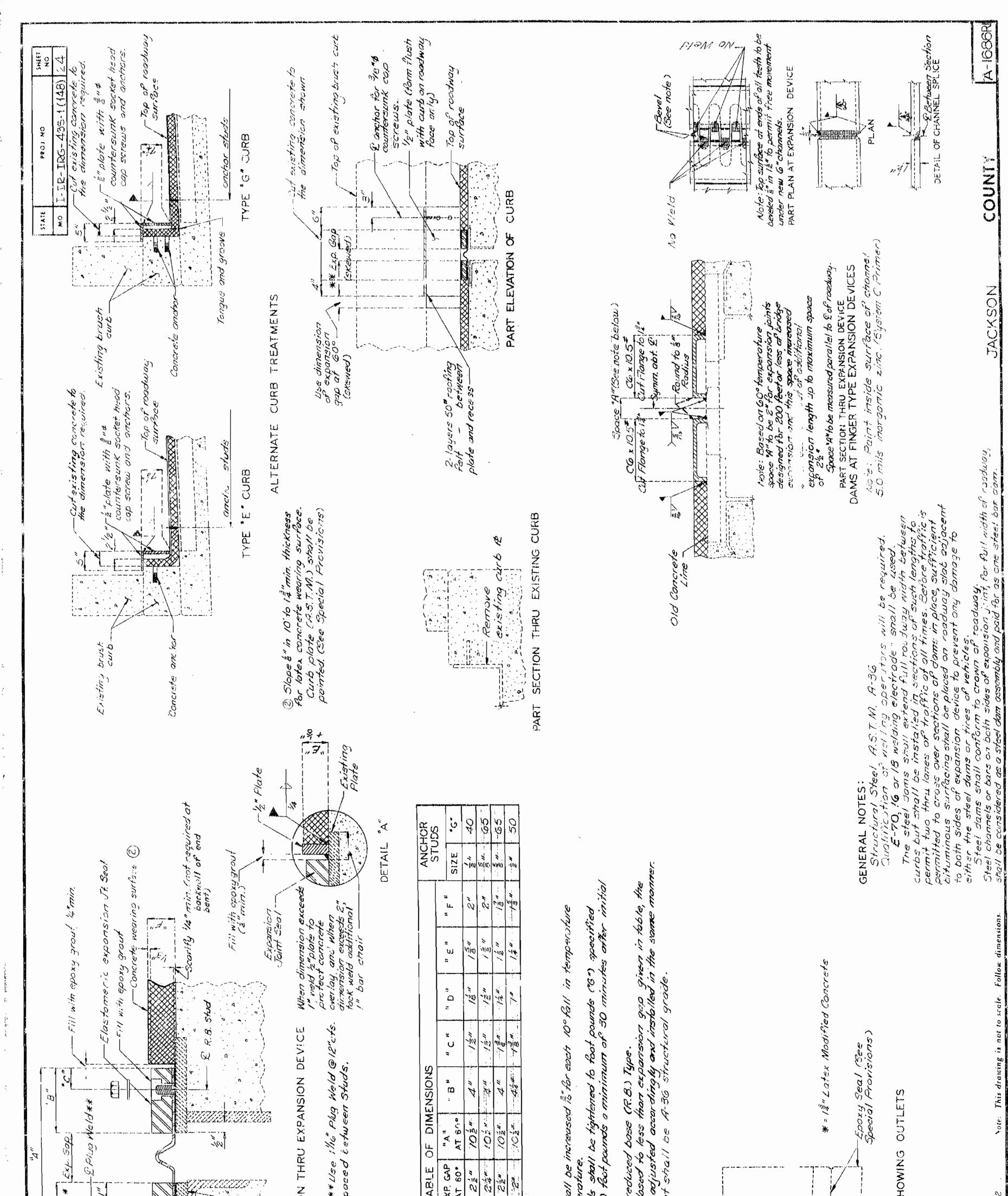
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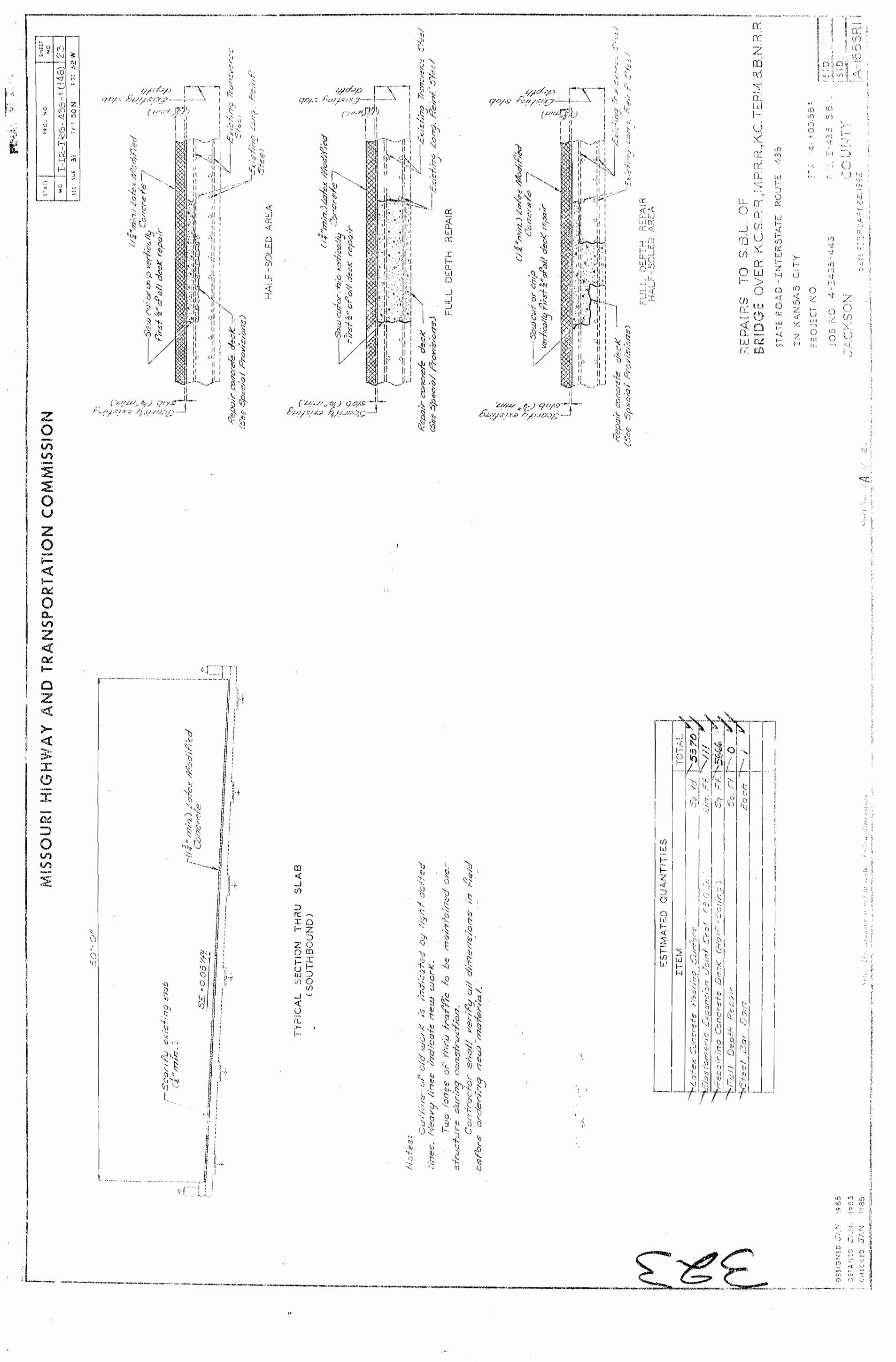
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Polyurethane bedding Lock washer typ Lock washer typ L	LOCATION ACCEPTABLE ALTERNATE EXP. G TYPES AT 6 64-71/10 Acme Trojan TR 400 25 64-71/10 Gen-Strip C.2 3 25 65 14-10 Gen-Strip C.2 3 25 65 14-10 Gen-Strip C.2 3 25 65 14-10 Gen-Strip C.2 3 25	Notes: All dimensions one of right angles. Expansion gap and dimension "A" shall and decreased is" for each 10° rise in temperat The certified ruts for the anchor studs s in the table of dimensions. Refighten to (C") fo tightening. The welded anchor studs shall be red ** If existing expansion device has close expansion gap of the new device may be ad New material for the armored joint s	TYPICAL SECTION AT CURB SHOV	DETAILED JAN. 1985 CHECKED JAN. 1985 SHEET NO. 2 OF 2
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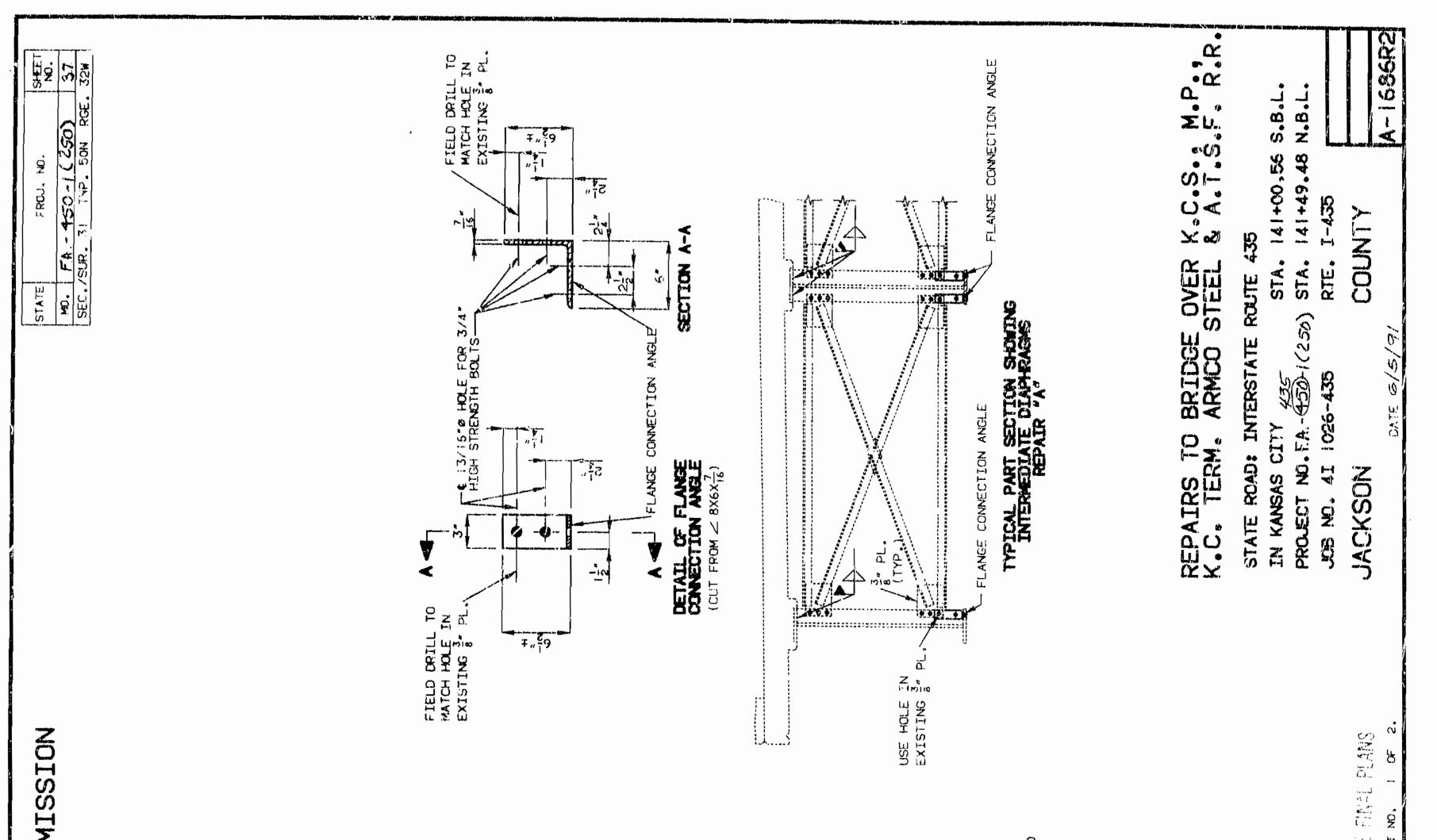
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SOM TRANSPORTATION AND HIGHWAY MISSOURI

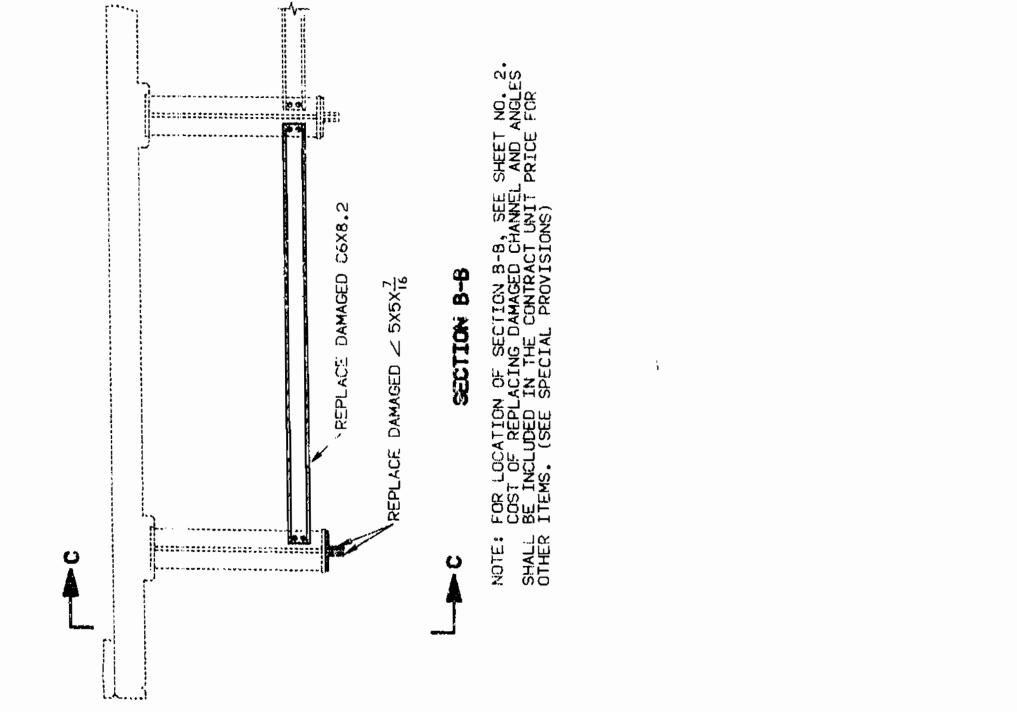
154 000 PSI IMENSIONS ירר ם: DESIGN UNIT STRESSES: STRUCTURAL CARBON STEEL FY=3 NOTE: CONTRACTOR SHALL VERIFY BEFORE ORDERING NEW STEEL. GENERAL NOTES:

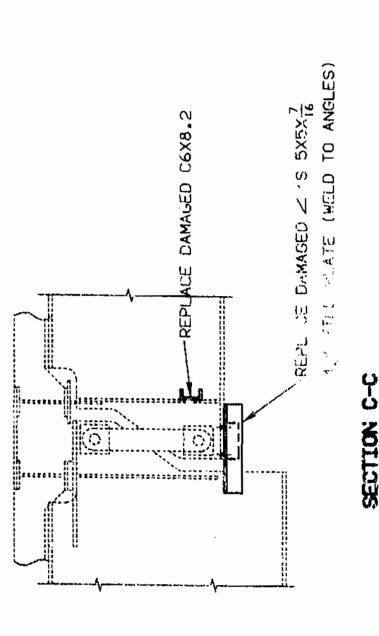
314"0, CONSTRUCTION CLEARANCE: SEE SPECIAL PROVISIONS FOR MINIMUM VERTICAL HORIZOWIAL CLEARANCE. Z FAGRICATED STEEL CONNECTIONS: FIELD CONNECTIONS, HIGH STRENGTH BOLTS HOLES 13/16-0, EXCEPT AS NOTED.

FIELD TRAFFIC MAINTAINED: TWO LANES OF TRAFFIC IN EACH DIRECTION OVER STRUCTURE TO BE MAINTAINED DURING CONSTRUCTION. PAINTING: CALCIUM SULFONATE PAINT SYSTEM BY CONTRACTOR IN ACCORDANCE WITH SPECIAL PROVISIONS. (COLOR OF THE FINAL COAT FOR CALCIUM SULFONATE PAINT SYSTEM SHALL BE GRAY). **NNN** FIELD

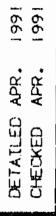
ESTIMATED QUANTITIES	S	
Hail		TOTAL
MOBILIZATION	FUMP SUM	
REPAIR *A*	EACH	8C4
REPAIR "B"	LIN. IN.	1100
REPAINTING (CALCIUM SULFONATE SYSTEM)	LUNP SUM	-
NOTE: SEE SPECTAL PROVISIONS FOR MORE INFORMATION PERTAINING TO SACH	ATTON PERTATNING	UL ⊂∆C

NOTE: SEE BID ITEM.





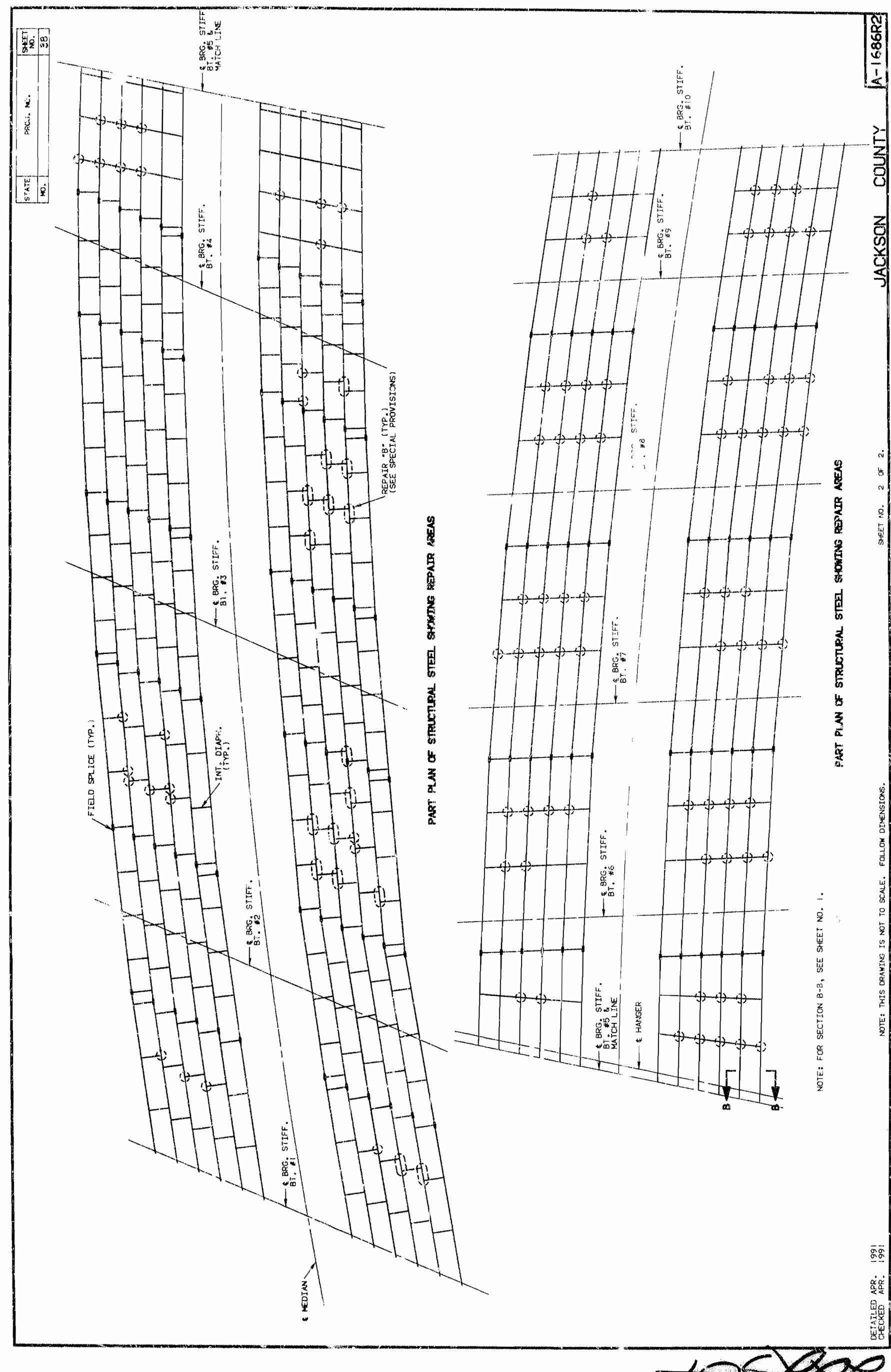
DASHED LIGHT ВҮ NOTE: OUTLINE OF OLD WORK IS INDICATED LINES. HEAVY LINES INDICATE (EN WORK.



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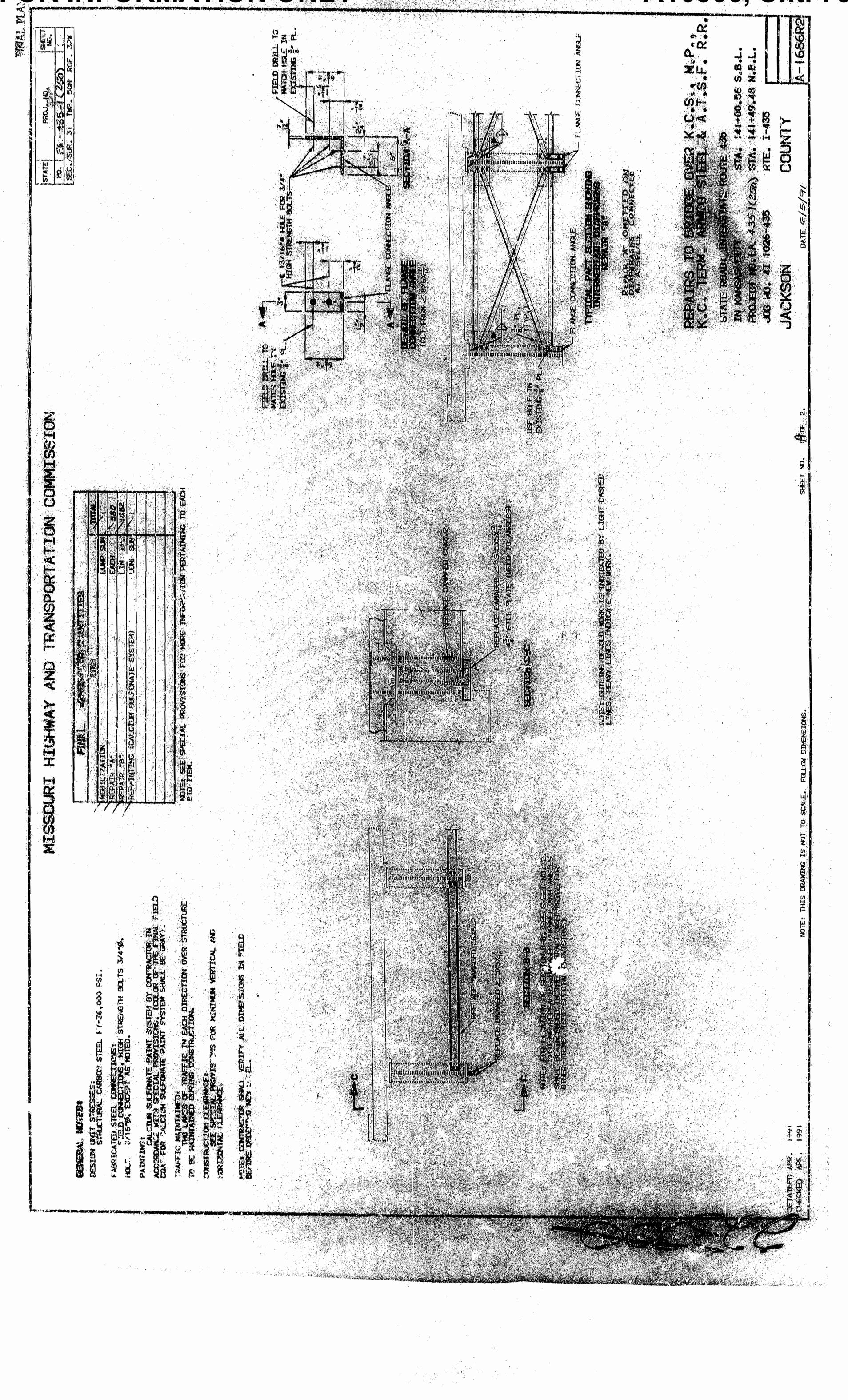
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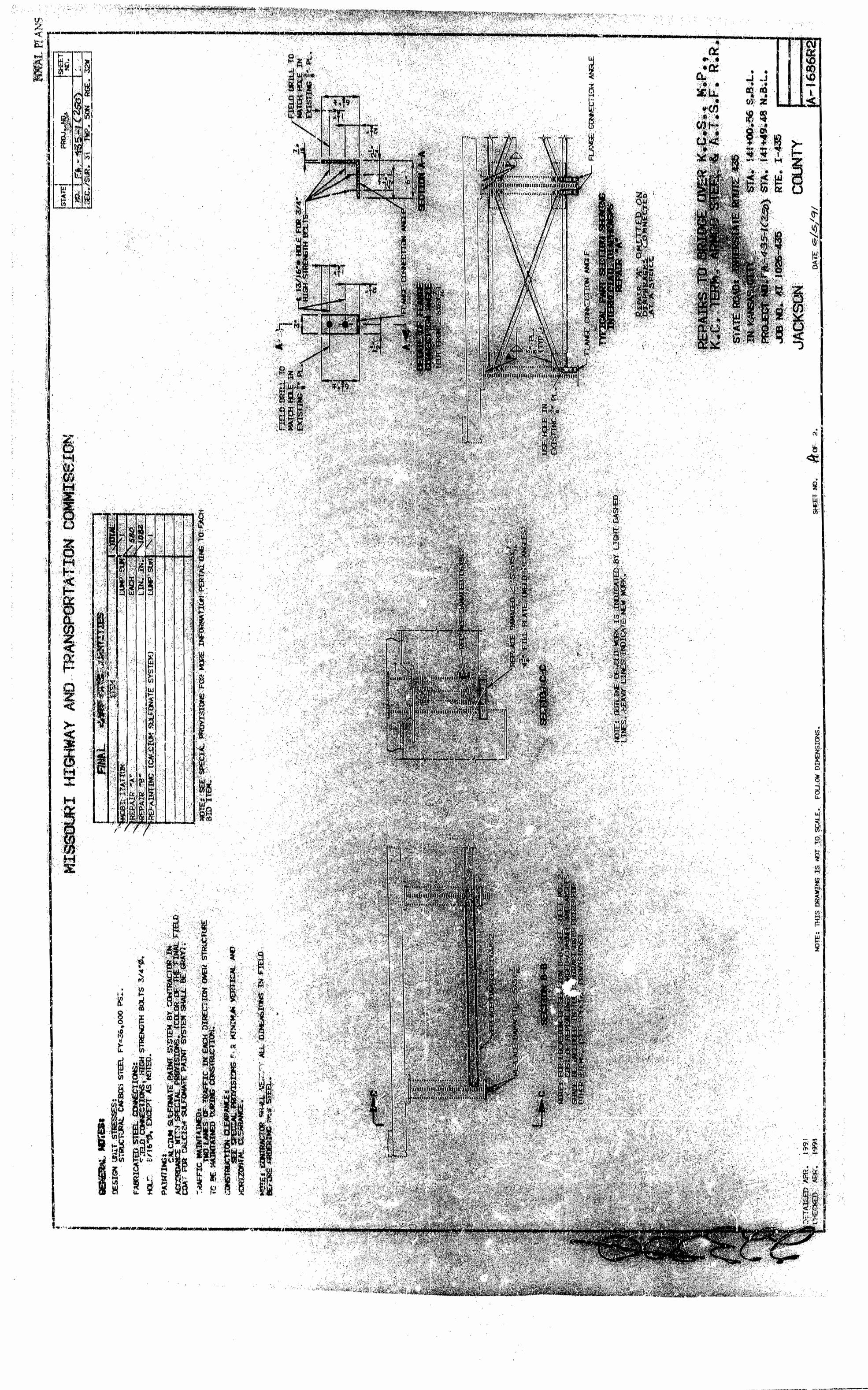
A16866, Sht. 72



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STATE PROJ. NO. SHEET MO. ROJ. NO. 2BI SEC./SUR. 31 TWP. 50N RGE. 32W
General Notes:
Design Specifications: ASHTQ-1996 Load Factor Design Seismic Performance Category A
Design Loading: MS18 Modified No Future Wearing Surface Fatique Stress - Case I
Design Unit Stresses: Class B1 Concrete (Substructure) Class B1 Concrete (Safety Barrier Curb) Class B1 Concrete (Safety Barrier Curb) Class B2 Concrete (Superstructure, except Safety Barrier Curb) f'c = 28 MPa Reinforcing Steel (Grade 420) Structural Carbon Steel (ASTM A709 Grade 250) Structural Carbon Steel (ASTM A709 Grade 250)
Fabricated Steel Connections Field connections shall be made with 19.0 mm diameter high strength bolts and 20.6 mm diameter holes, except as noted.
<pre>+ Filler i joint filler shall meet the requir andard Specifications (Metric). exce</pre>
Reinforcing Steel Minimum clearance to reinforcing steel shall be 40 mm. unless otherwise shown.
Protective Coating (New Steel Only) System G by the contractor.
Prime Coat: The cost of the prime coat shall be included in the contract unit price of the Fabricated Structural Steel. Tint of the prime coat for System G shall be similar to the color of the field coat to be used.
<pre>Field Coat: The color of the finish coat shall be Gray (Federal Standard #26373). The cost of the intermediate and finish coats shall be included in the contract unit price per Megagram of Field Coat (System G) Gray.</pre>
Miscellaneous See table for minimum vertical clearance from top of rails and minimum lateral clearance from the centerline of track to nearest temporary construction falsework to be maintained during construction.
Traffic over structure to be maintained during construction.
High strength bolts, nuts and washers will be sampled for quality assurance as specified in Section 106 of the Missouri Standard Specifications (Metric) and Field Section (FS-712) from Materials Manual.
utline of old work is indicated by dashed lines. Heavy lines indicate n
ontractor shall verify all dimensions in field before ordering new steel. Are bonded in old concrete not removed shall be cleanly stripped and embedde
is available, old bars s smooth bars and 30 diame
Contractor shall take all necessary precautions to prevent debris and other material from dropping onto the railroad tracks. See Special Provisions.
Dimensions All dimensions are shown in millimeters (mm) unless otherwise specified.
Drawings are not to scale. Follow dimensions.
Elevations All elevations are specified in meters except as noted.
Hinge Modifications Removal of existing structural steel in hinge areas as shown shall be included in the cost of Fabricated Structural Carbon Steel (Misc.) - Metric.
Repairs to: Bridge over GST SteelCompany, UP, KCS, BNSF and KCT Railroads
State Road I-435 from Rte. 24 to Missouri River In Kansas Citv
04
JACKSON COUNTY

A16866, Sht. 75

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SHEET NO.

86-2-h

Date:

Missouri Department of Transportation

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Estimated Quantities	S			
Item		Substr.	Superstr.	Total
Partial Removal of Substructure Concrete	nmp sum			~
Removal of Existing Bridge Deck - Metric	sq. meter		4731.1	4731.1
Substructure Repair (Formed) - Metric	sq. meter	8.3		8.3
Protective Coating - Concrete Bents (Deleterious Agents)	lump sum	-		
Class B-1 Concrete (Substructure) - Metric	cu. meter	3.5		3.5
Slab on Steel - Metric	sq. meter		4731	4731
Safety Barrier Curb - Metric	meter		606.0	606.0
Type N PTFE Bearings	each		و	9
Reinforcing Stee! (Epoxy coated) - Metric	kílogram	470		470
Expansion Device (Finger Plate) - Metric	meter		15.6	15.6
Expansion Device (Flat Plate) - Metric	meter		33.9	33.9
Fabricated Structural Carbon Steel (Misc) - Metric	k i logram		8230	8230
Slab Drain	each		75	75
Field Coat (System G) Gray - Metric	Megagram		8.2	8.2

Estimated Quantitie	antities	s for Slab on Stee	on Ste	9	
[tem		Stage I	Stage 11	Stage III	Total
Reinforcing Steel (Epoxy Coated)	kilogram	69 175	84 750	81 005	234 930
te	cu. meter	327.6	378.7	424.9	1131.2

The table of estimated quantities for Slab on Steel represents the quantities used by the state in preparing the cost estimate for concrete slabs. Variations may be encountered in these estimated quantities but these variations cannot be used for an adjustment in the contract unit price per square meter of Slab on Steel.

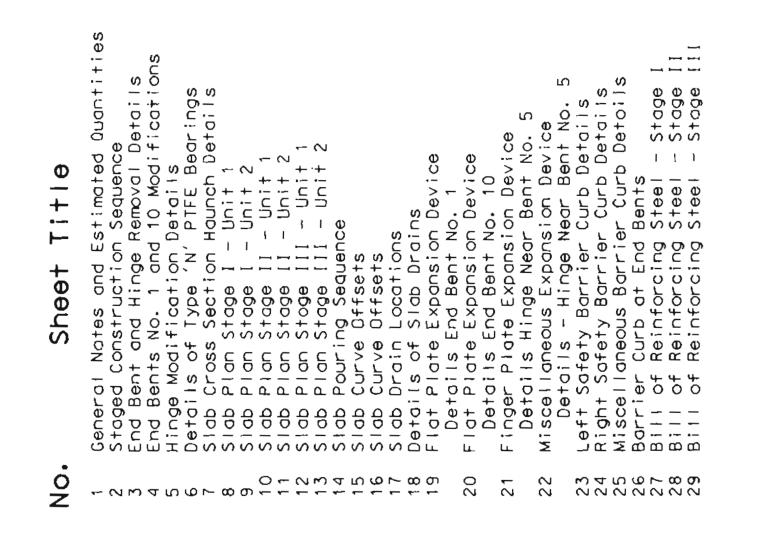
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Stab on steel shalt be constructed using cast-in-place conventional forming.

* Safety barrier curb shall be cast-in-place option or slip-form option.



Note: This drawing is not to scale. Follow dimensions



⋇

		ILICES
Raitroad	Vertical (mm)	Lateral (mm)
GST Steel Company	7010	3048
UP	6553	4572
KCS	6553	3048
BNSF	6553	3048
KCT	7010	3048

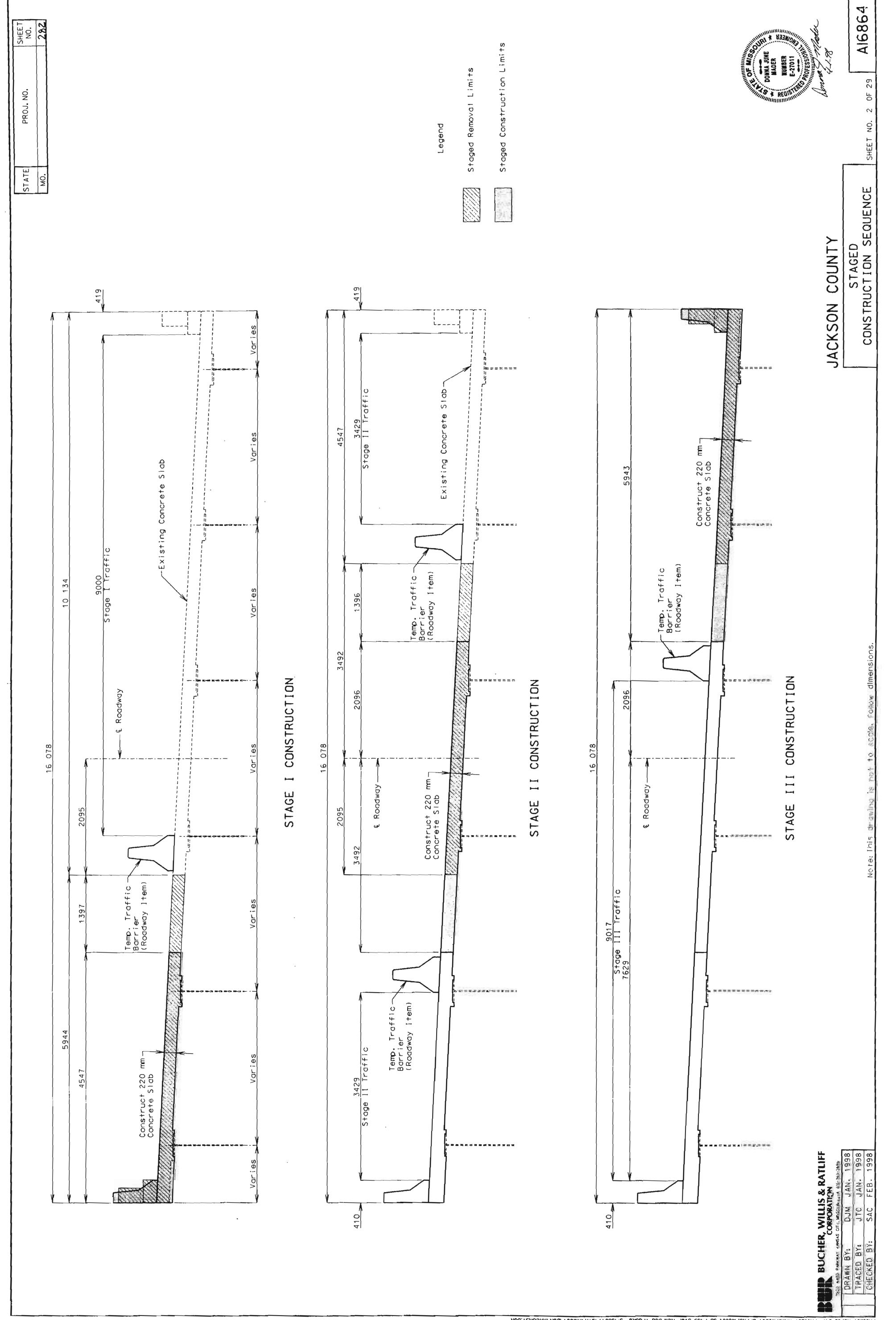
BUCHER, WILLIS & RATLIFF BUCHER, WILLIS & RATLIFF CORPORATION 7920 NUE VILLIS & RATLIFF 7920 NUE VILLI

PROJECT No. 98-047 PROJECT NAME: MODOT-Br. No. ALEGE4-58 1-435 OVER ROBIFOOD THOOKE SI 48047/STR/A16864/DCN/RRNOTE.DCM

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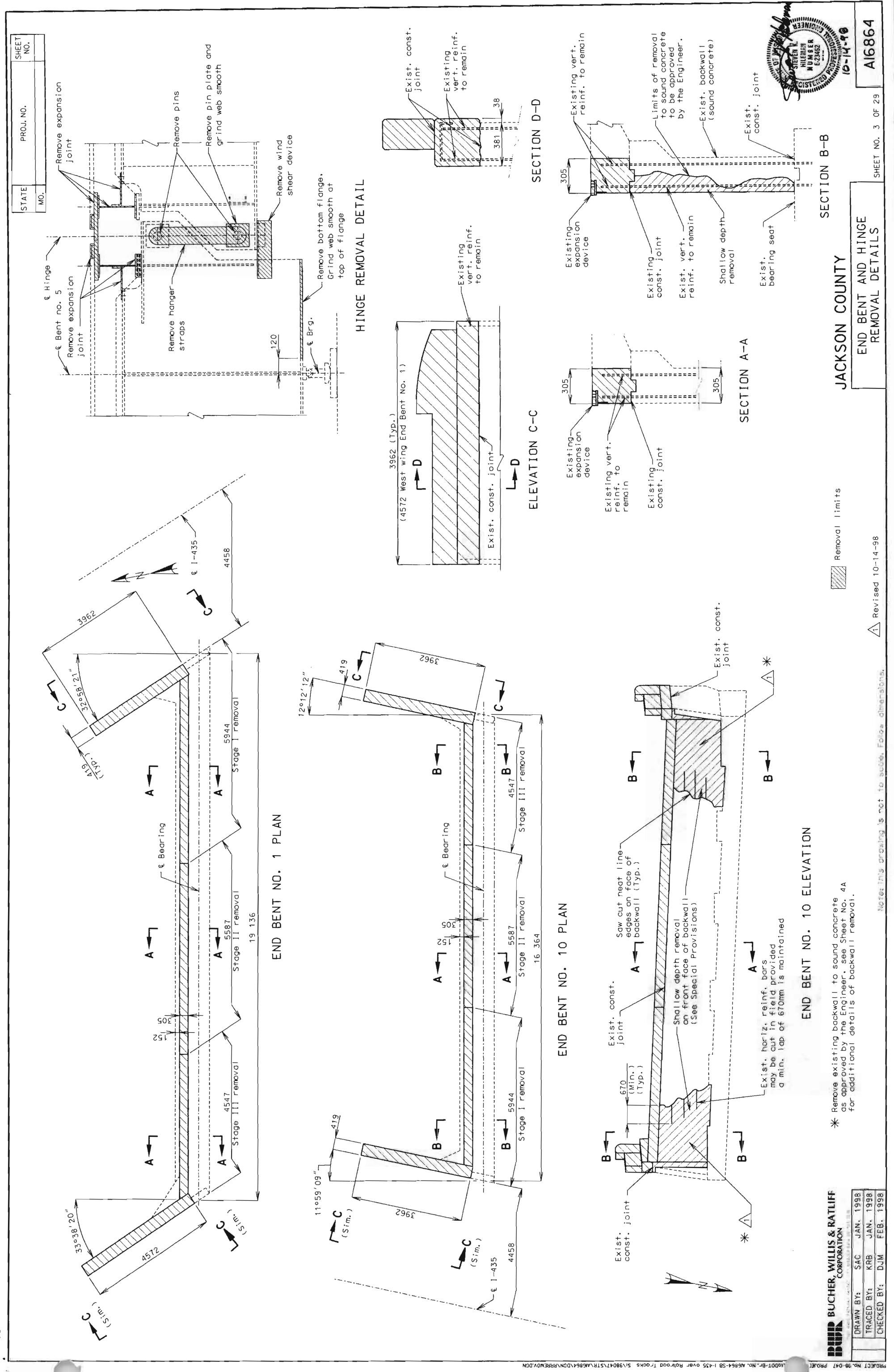
A16866, Sht. 76

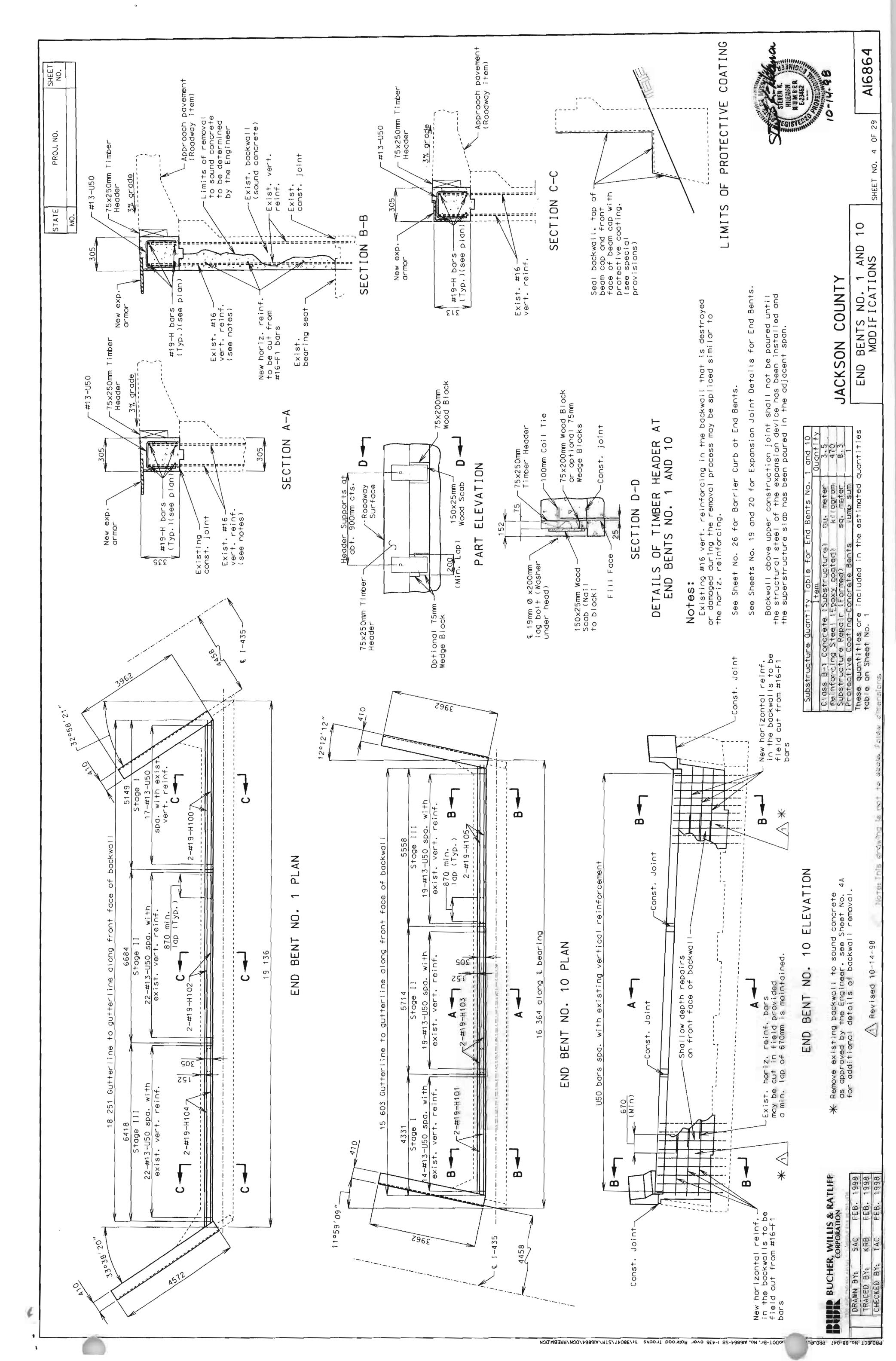


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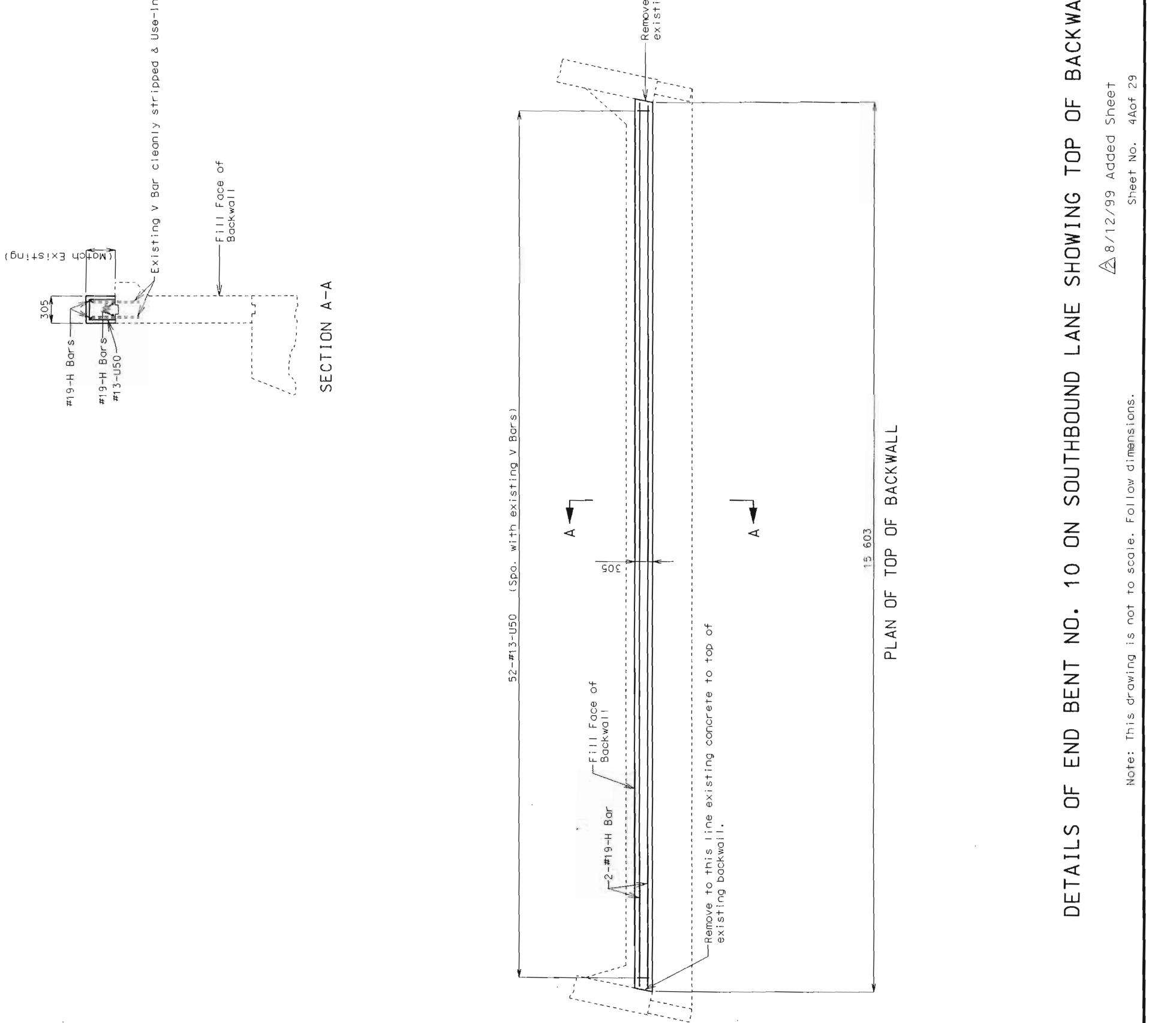
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A16866, Sht. 79

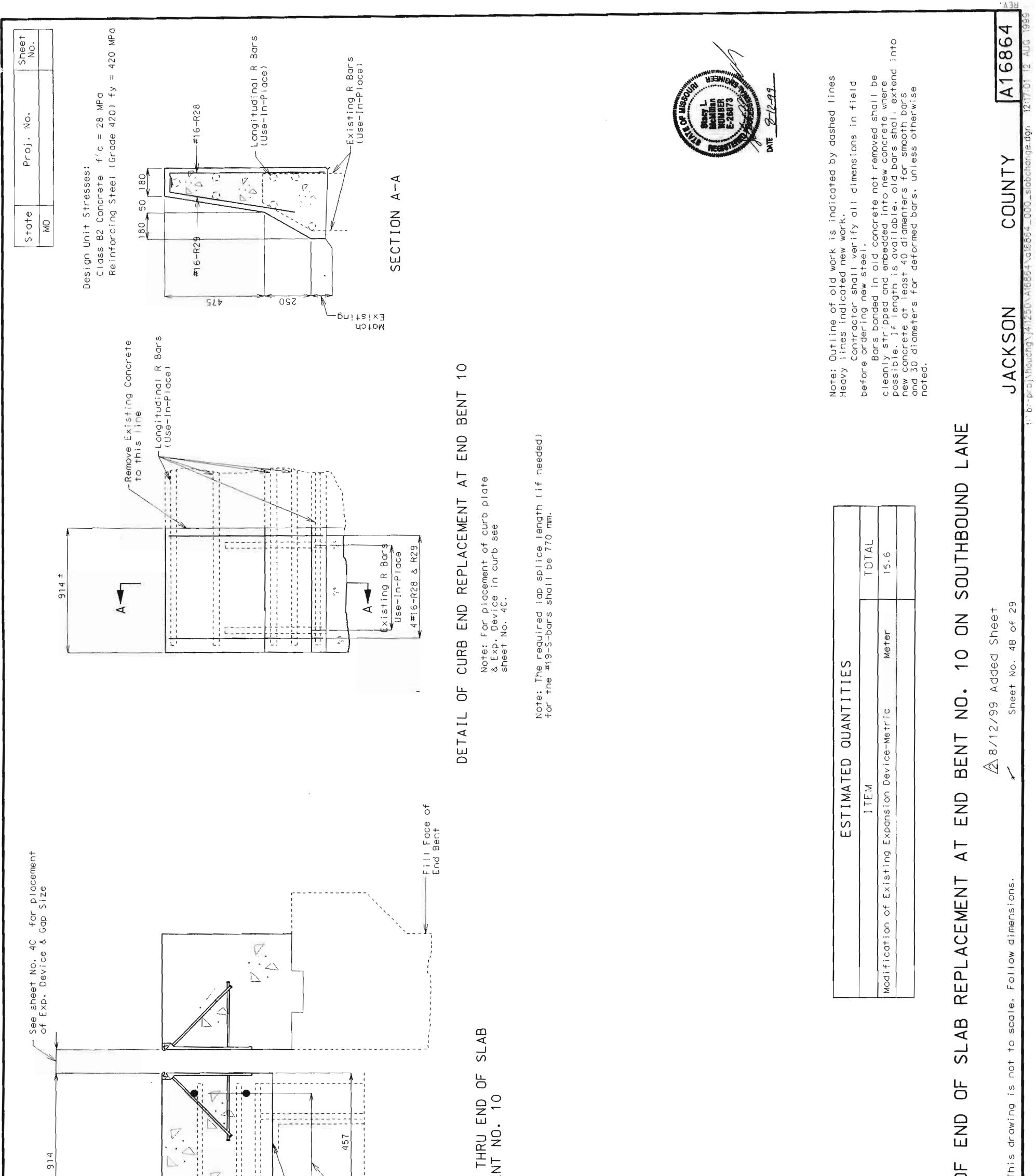
No. 28 MPa 4201 fy = 420 MPa	ME 9-/2-99	be epoxy e 600 mm.	ned lines in field shall be te where all extend into herwise	A16864
Design Unit Stresses: Class B2 Concrete f'c = Reinforcing Steel (Grade	Store and a second seco	d in backwall shait (if needed) shail b	d work is indicated by dashed lines ed new work. all verify all dimensions in field steel. n old concrete not removed shall be d embedded into new concrete where is available, old bars shall exter is available, old bars shall exter st 40 diamenters for smooth bars of deformed bars, unless otherwise	COUNTY
Desciona	concrete to top of	Note: The #19~H~bars place coated. The splice length	e: Dutline of olo vy lines indicato Contractor sh Contractor sh Bars bonded i Bars bonded i anly stripped an sible. If length concrete at lea 30 diameters fo	ACKSON
PLACE	e to this line existing c ing backwall.		N POLO POLO POLO POLO POLO POLO POLO POLO	

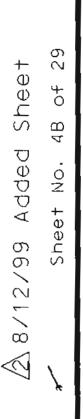


Detailed July 1999 Checked July 1999

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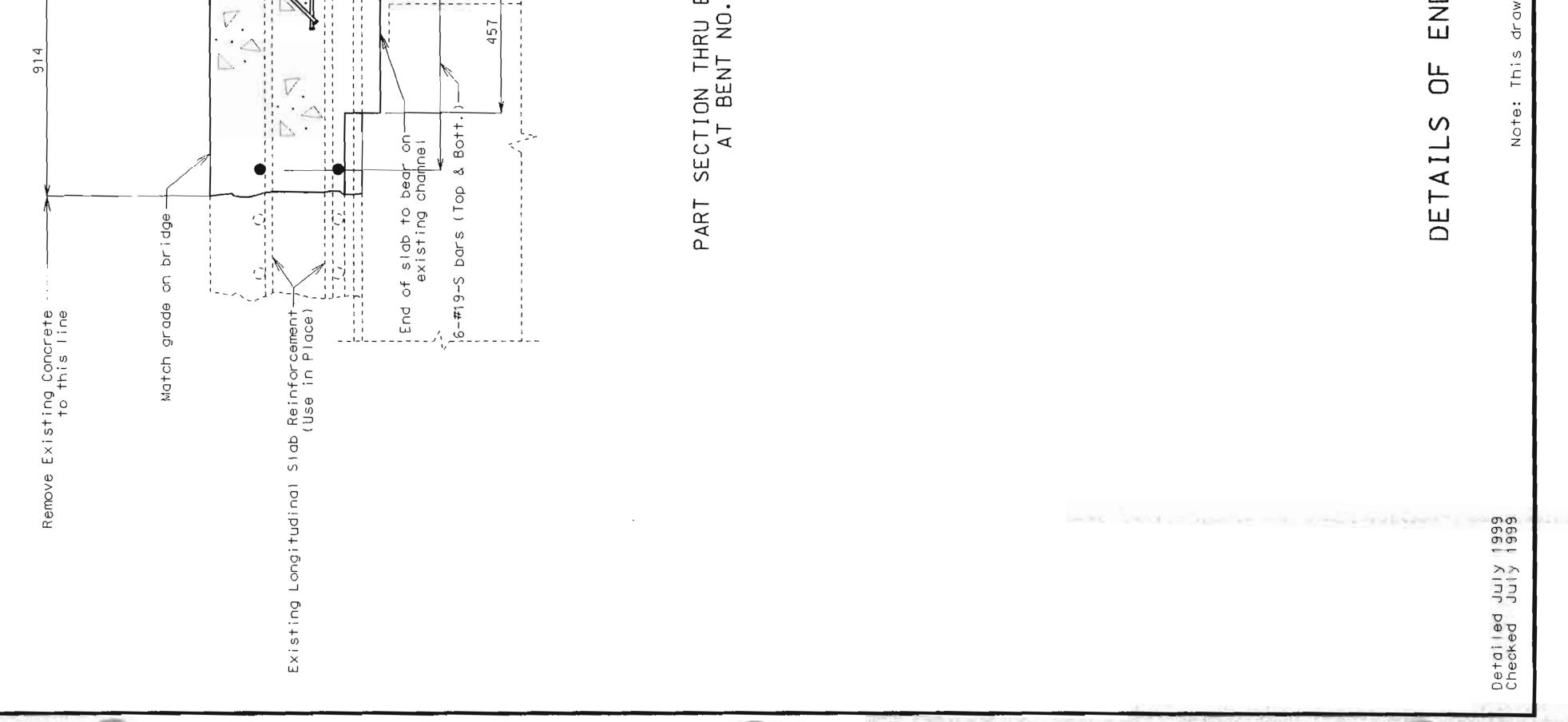
A16866, Sht. 80



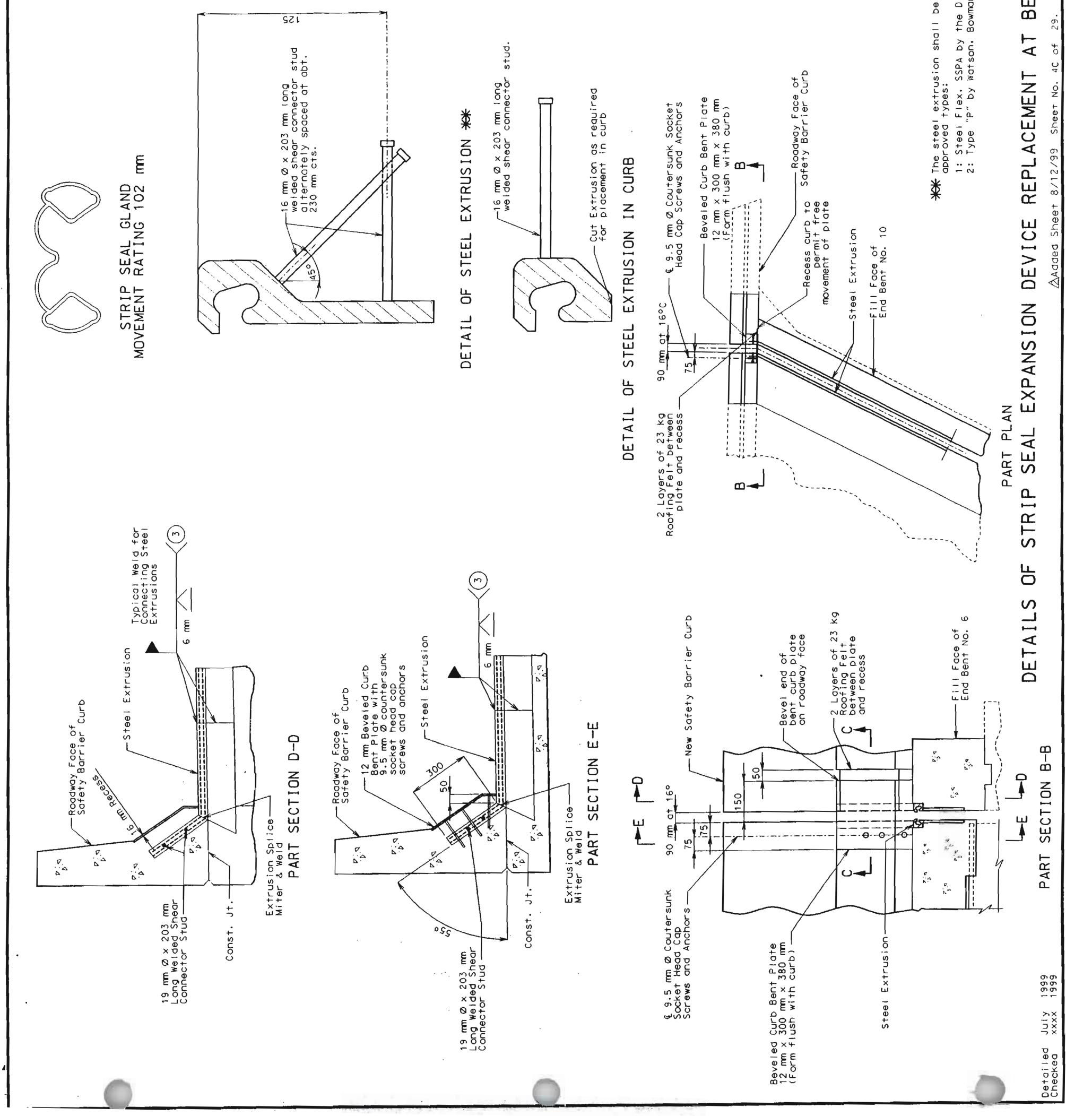


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ITEM		T01/
Modification of Existing Expansion Device-Metric	Meter	15.6

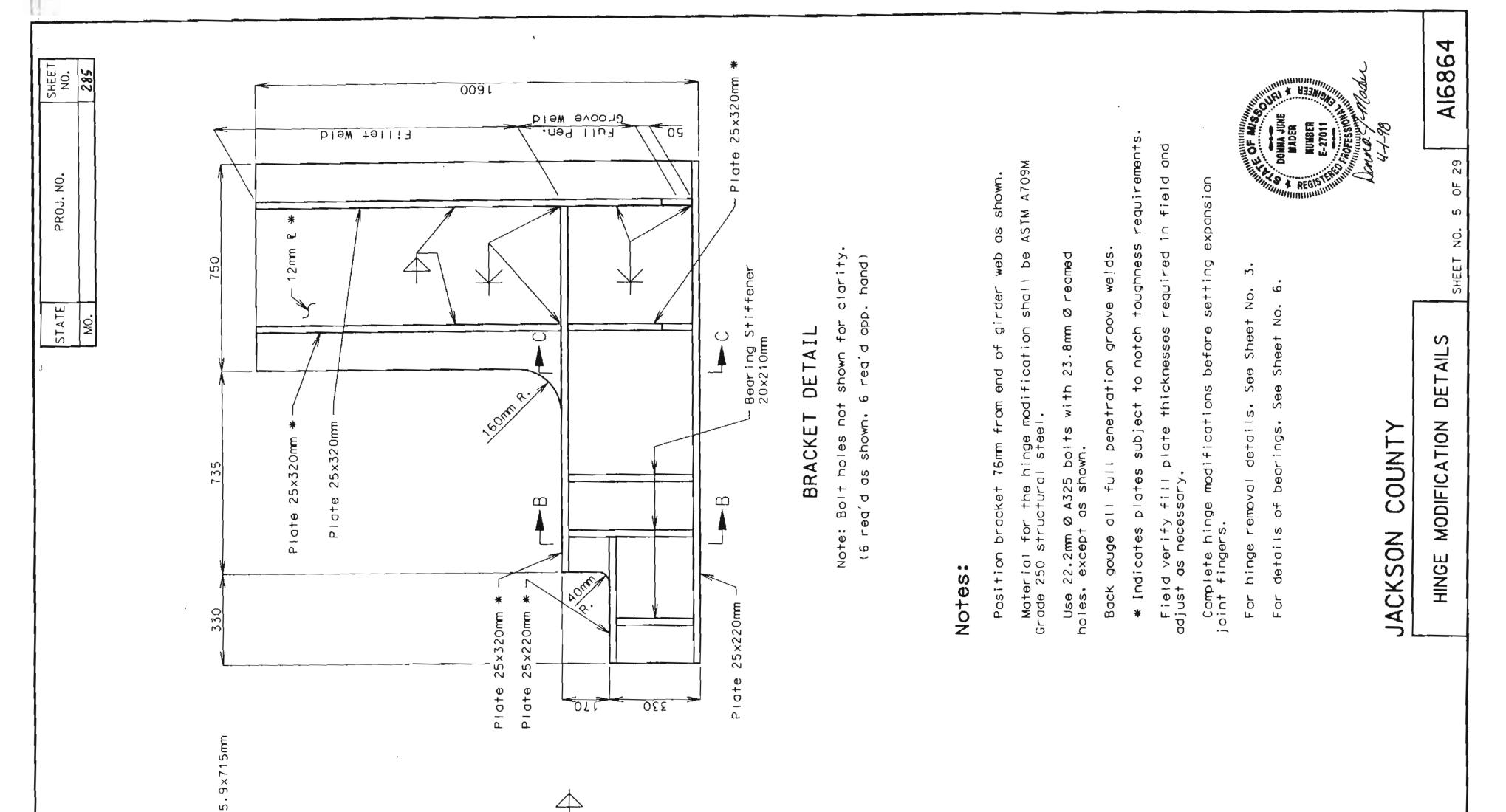


o. No.	alled in cturer. o fabrication. undard to fabrication. ndard to fabrication. ndard to fabrication. teel teel to strip seal & t shall be to or overspray. nd placing the twansion Expansion	ά each for Q.	curb bent to 6 mm	A16864
State Proj. No MD	ated and inst of the manufo isions. sions prior t sions prior t 12 of the Sto 345% or Grac 345% or Grac 345% or Grac 345% or Grac 50-2628. Shall be appresent i ate . neopre b replacement or Modificat b replacement or galvanic t incruded in alvanizing an of Existing an	nall be increased acreased 3 mm for ation. Id back. around strip around strip around strip ocalized extrusions extrusions et to assure to grade of roadw	SECTION FIF	COUNTY
	on device shall be with the recommenda forth in the Specia tor must verify all add conform to Sec ons (Metric). Dall conform to Sec ons (Metric). Dall be ASTM A709M shall be ASTM A700M shall be ASTM A700M shall be ASTM A700M s	expansion gap dimension fail in temperature and in temperature at insta ons shall be welded top shall be forced under ar usions and studs. Proper ete shall be achieved by vibration. I' shall support the stee acement of adjacent cono alignment of extrusions. Sion Device shall confor	Curb bent on roadway f F F F f F f F f F f F f F f F f F f F	JACKSON
1	NOTE: The expansion accordance with and as set for The contractor All welds shat Specifications All steel shat extrusions sna Neoprene Strip Anchors for th Structural Ste of Existing Ex contract with a (125 micromete with ASTM A123 Payment for fu strip Seal Exp contract unit Device.	Note: The each 5° C 5° C rise Concrete Seal extrusio Contracte internal during plo accurate of the Expan	Bevel o plate o face - face -	NT ND. 10

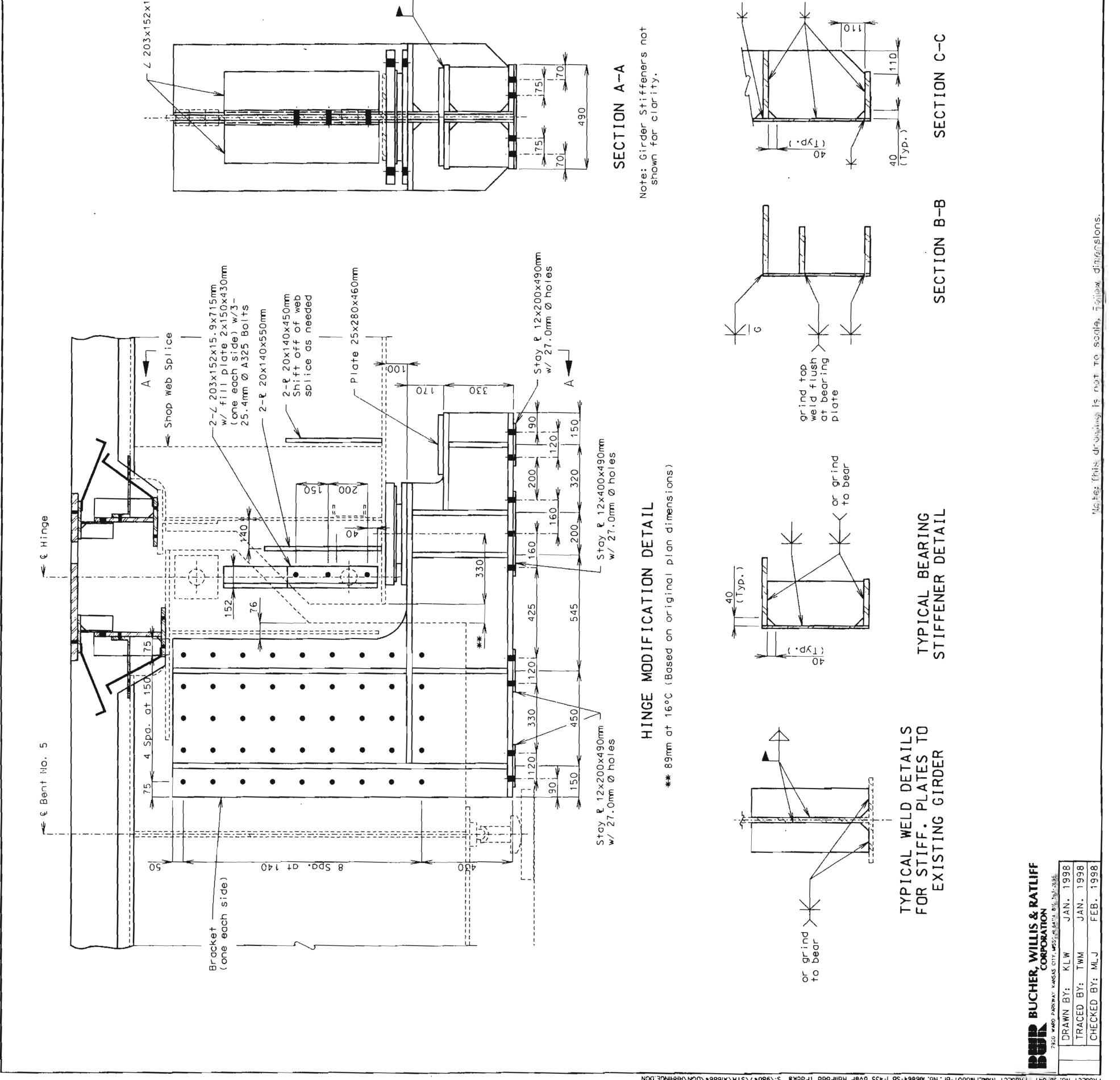




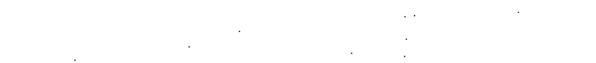
A16866, Sht. 82



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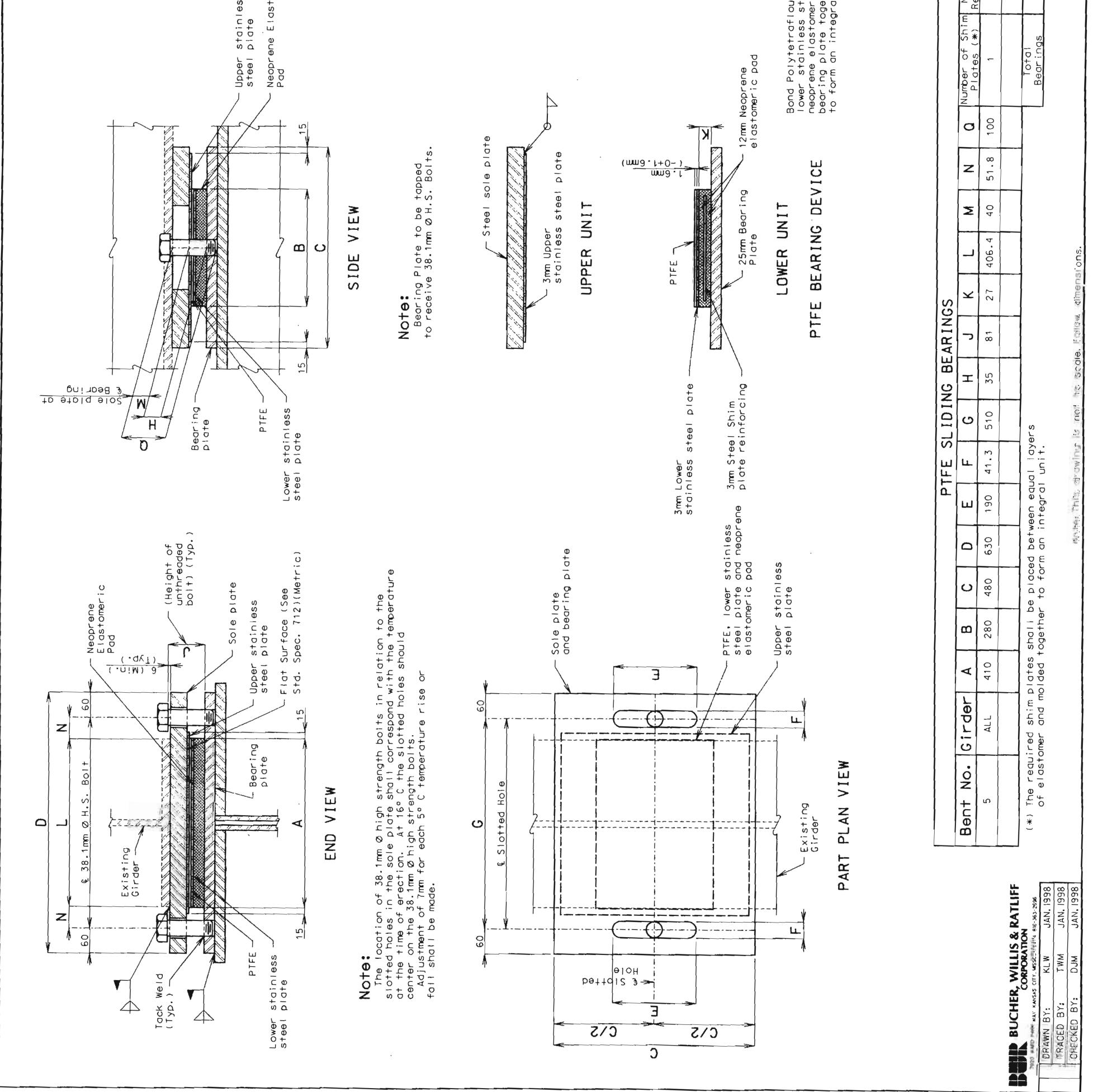
PROJECT NO. 98-047 PROJECT NAME: MODOT-BE. NO. AIG864-58 1-435 040F ROlifood Trocks 5:/98047/STR/AI6864/DGN/RRHINCE.DCN



A16866, Sht. 83

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FE PROJ. NO. SHEET NO.	M boits and shall extend 25mm r's certified mill test reports . mum thickness). ometer. hed boited together as a single rofit bracket. ng plate shall be ASTM A709M m of two coats of inorganic ess). . and high strength bolts shall be y. See Special Provisions. ing assemblies complete-in- t price for Type N PTFE ! plate that is welded to the cont that is approved by the		SHEET NO. 6 OF 29 AIDOD4
STATE MO.	Notes: Notes: Bolts shall be 38.1mm diameter. ASTM A325M be Bolts shall be 38.1mm diameter. ASTM A325M be into the beering plote. Actual manufacturer's (chemical and mechanical) shall be provided. All high strength bolts shall be 70 duromet norganic zinc primer (125 micrometers minimum Neoprene Elastomeric Pads shall be 70 duromet The upper and lower units shall be 70 duromet Structural steel for sole plote and retrofi Structural steel for sole plote and bearing crade 250 and shall be coated with a minimum of zinc primer (125 micrometers.minimum thickness) Payment for the sole plate. bearing plate and included in the cost of the bearing assembly. The accepted quantity of elastomeric bearing place. will be paid for at the contract unit pr Bearings. each. The bottom face of the 3mm stainless steel plate sole plate shall be lubricated with a lubrican bearing manufacturer.	PTFE). JACKSON COUN	
	t omer i c	uroethylene (teel plate. ric pad. and ether by vulc 6 6 6	

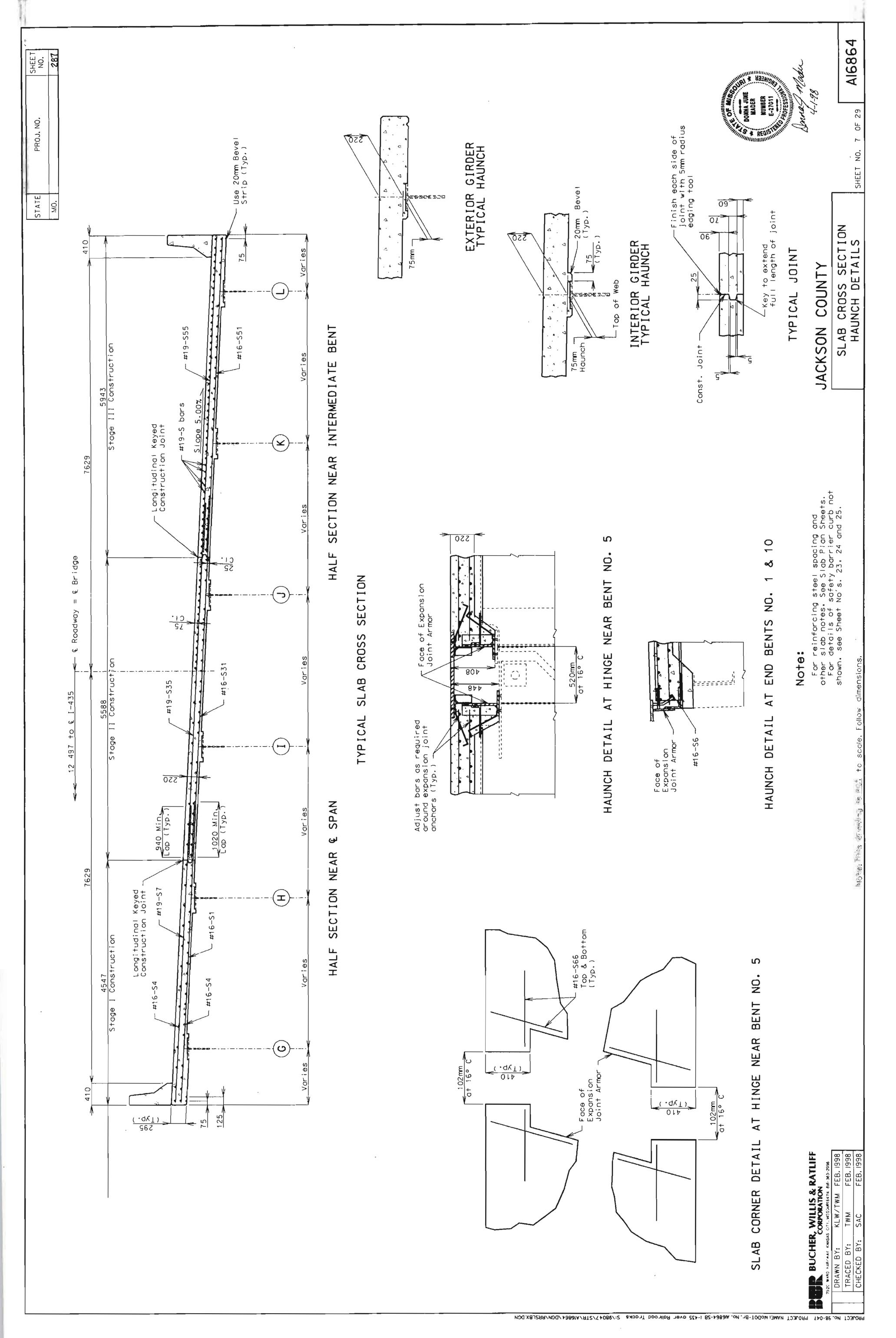


PROJECT NO. 98-047 PROJECT NAME! NODOT-BE. NO. NE864-58 1-435 0VOC ROLLOOD TOCKS S: 4980+7/STR/A16864/DCN/RRBEAR.DCN

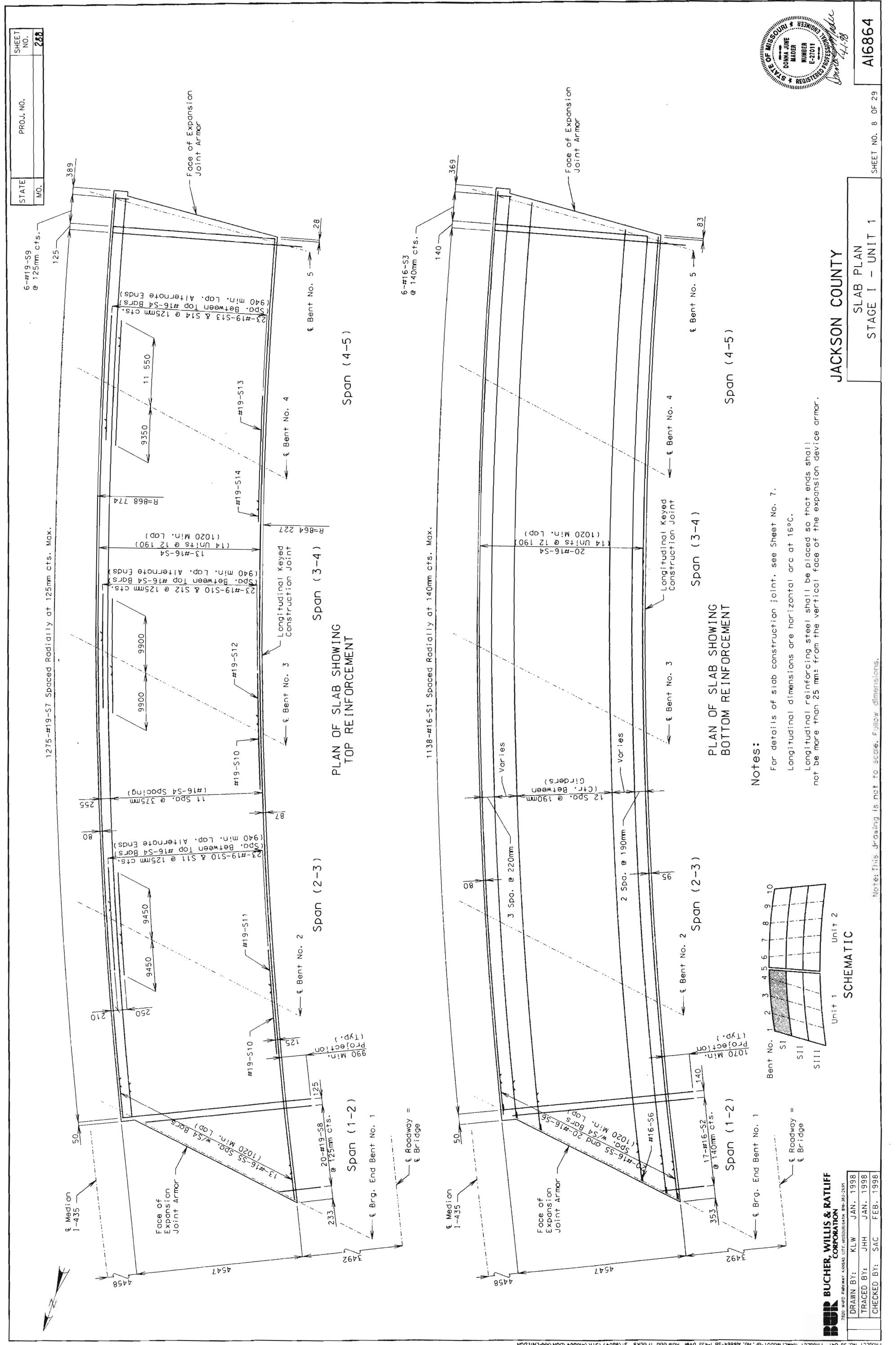






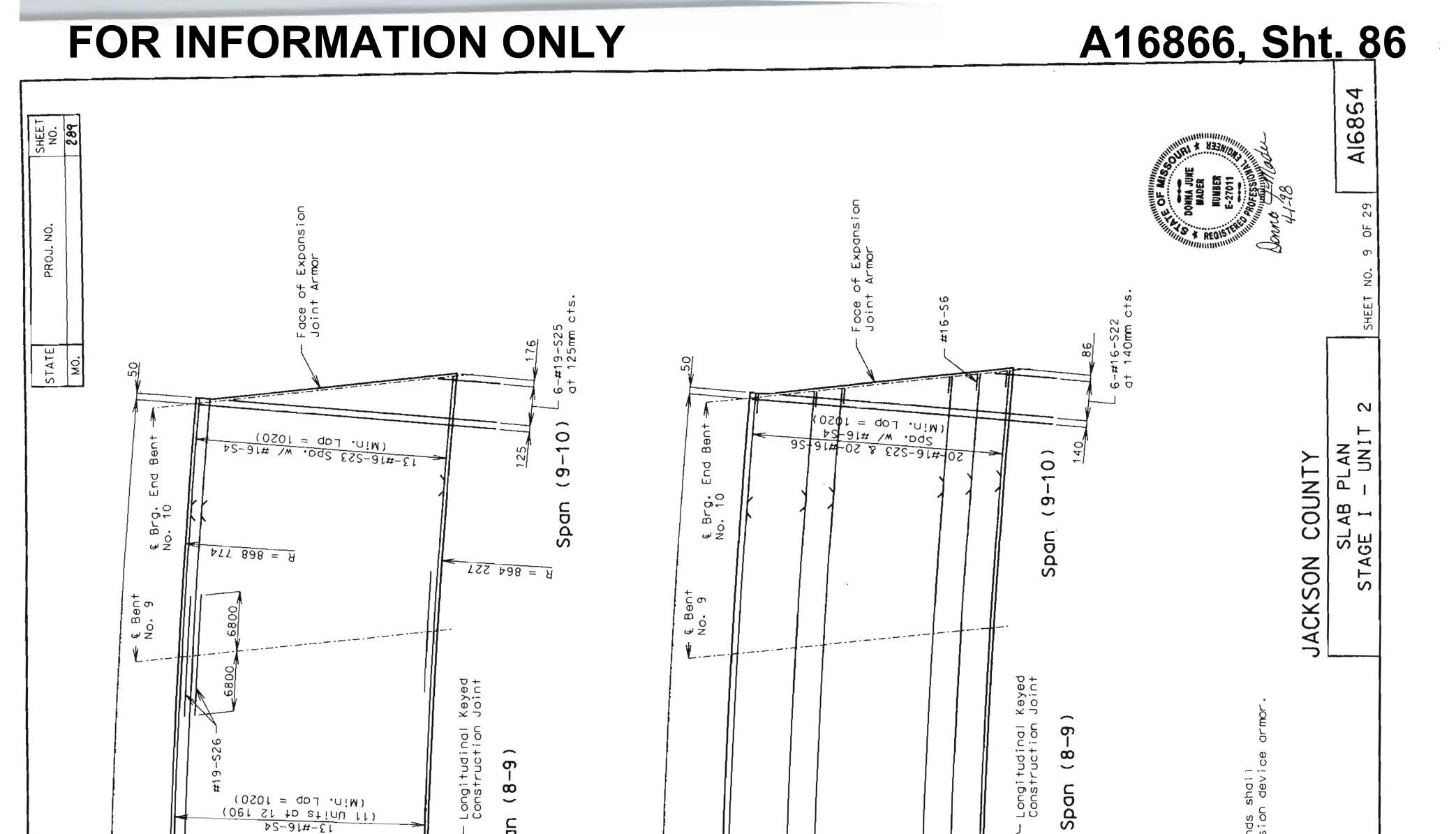


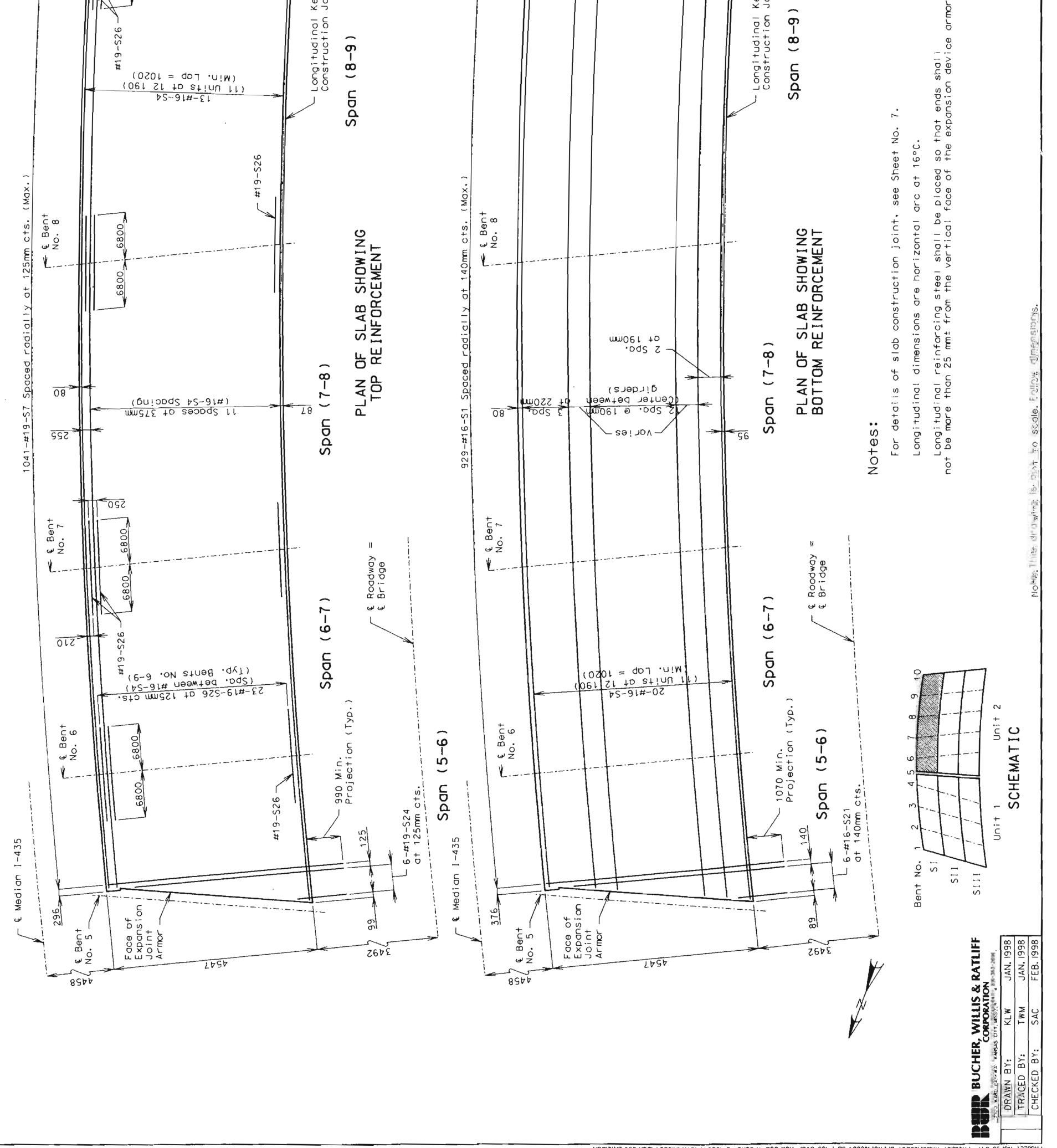




PROJECT NO. 98-047 PROJECT NAME: MODOT-BF. NO. ALBEG4-58 1-435 OVER ROLLOOD TFOCKS 5:/98047/STR/A1864/DCN/RRPLNILDCN





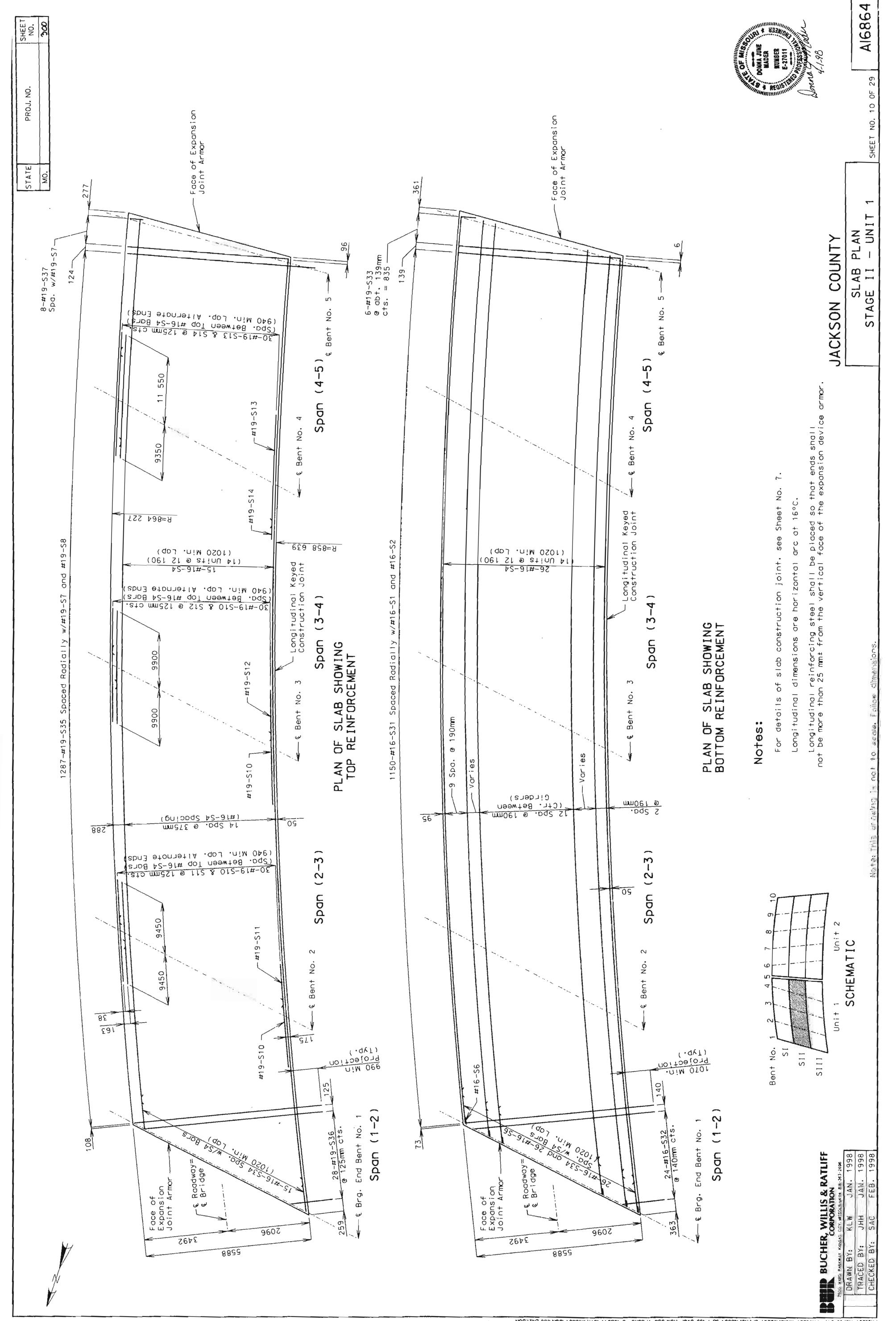


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PROJECT No. 98-047 PROJECT NAME: MODOT-BY, NO. NESSA-58 1-435 0404 ROW ON TOCKS S: 198047/STR/ABB64/DCN/RRPLAIS.DCM



A16866, Sht. 87

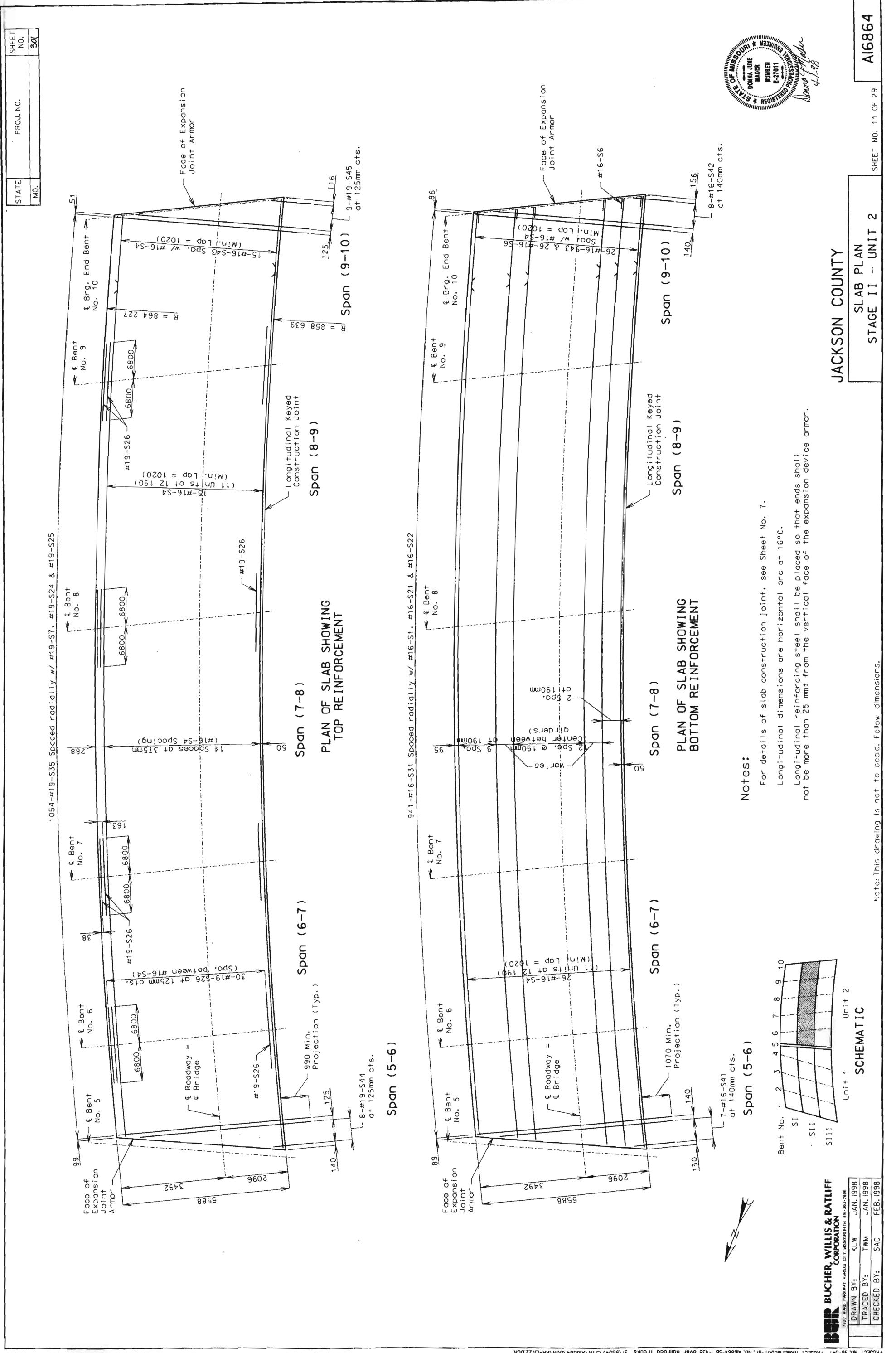


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PROJECT No. 98-047 PROJECT NAME: NODOT-84. No. 416864-58 1-435 OVER ROTICOOD TOOCKS 5:/98047/518/A16864/DCN/RRPLN21.DCN

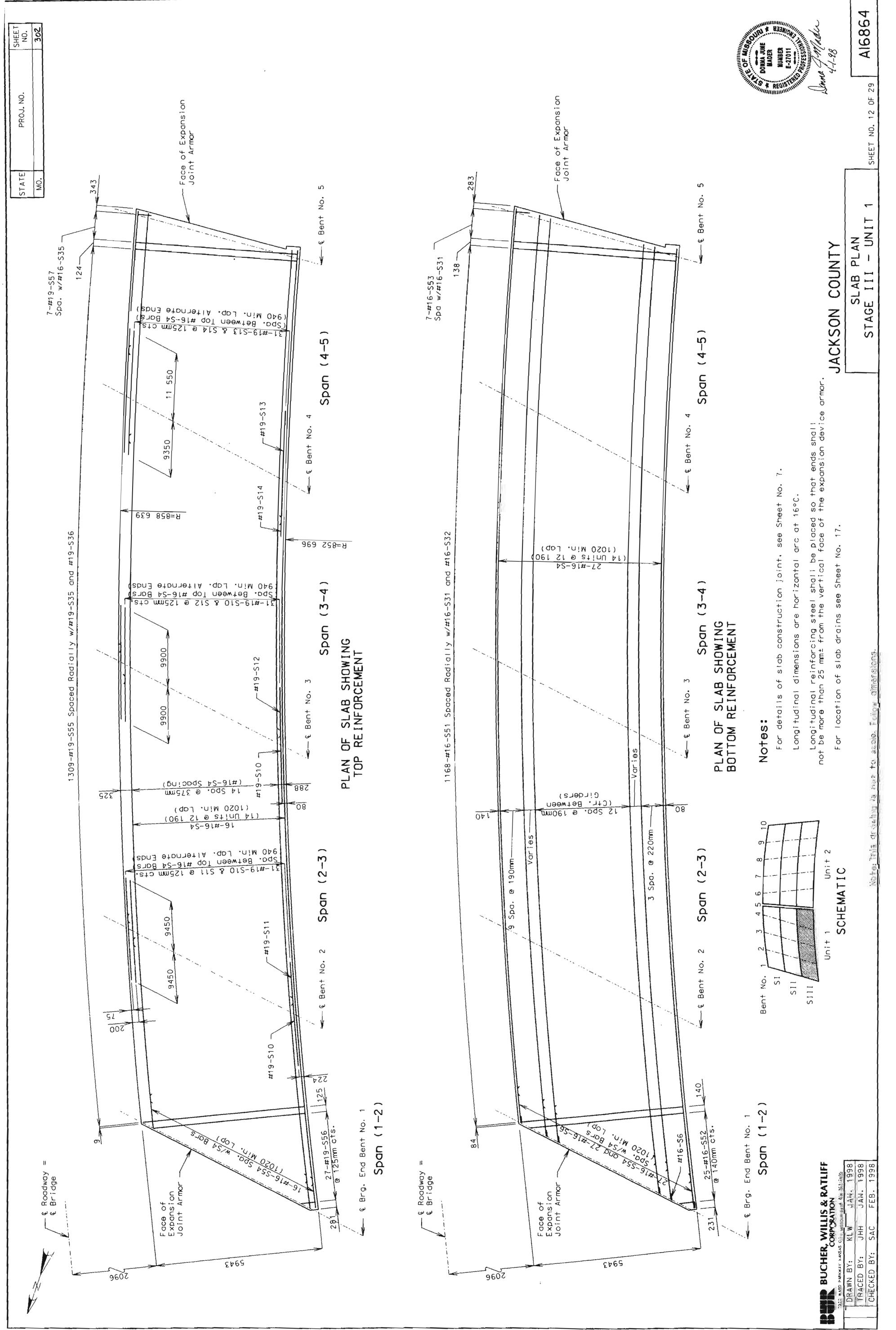
A16866, Sht. 88



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A16866, Sht. 89



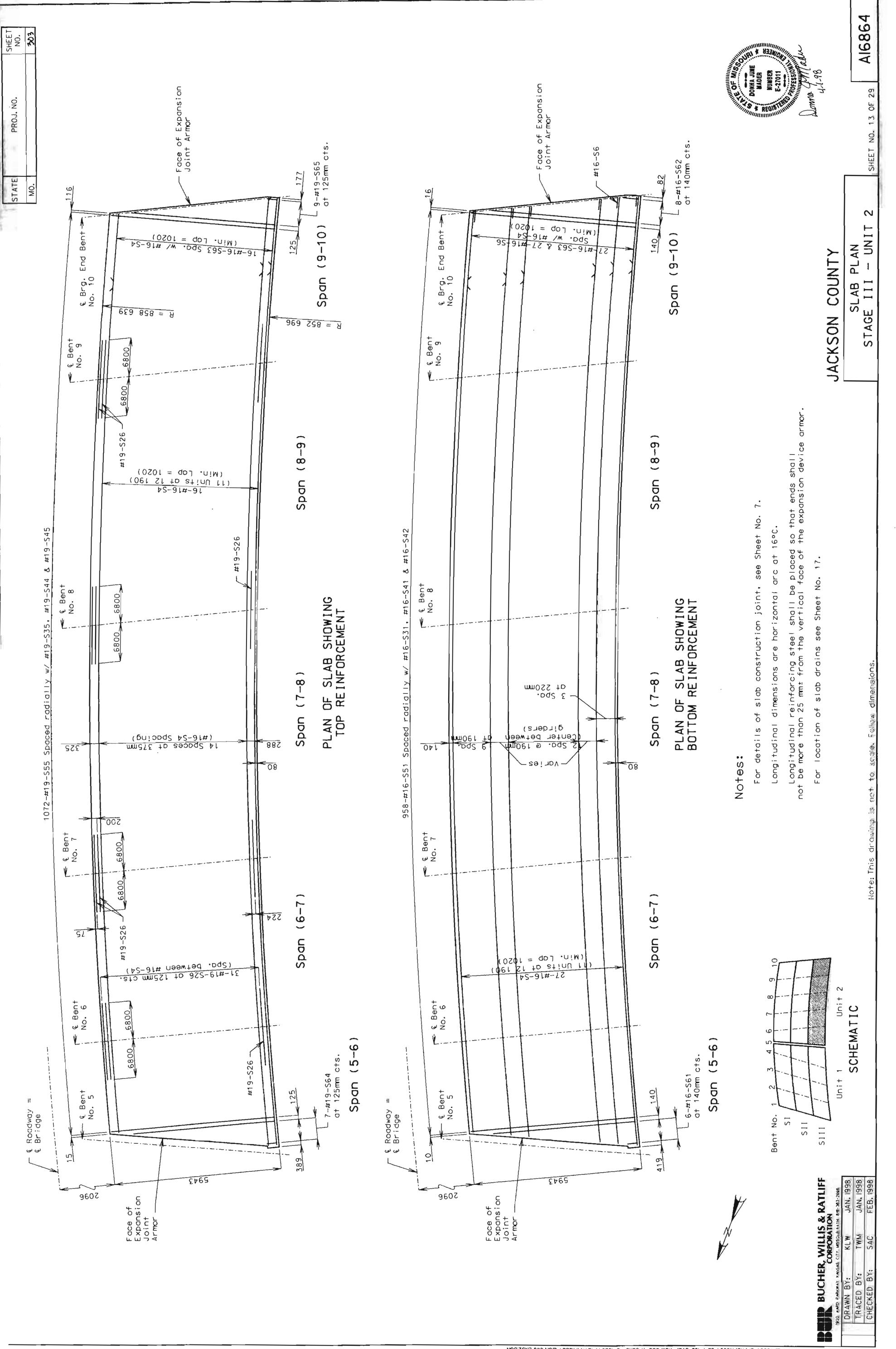
PROJECT No. 98-047 PROJECT NAME: NODOT-BE. NO. NESSA-58 1-435 0VOC ROLFOOD TOOCKS 5:/9804 7/578/NDG/RAPLAJ.DGN

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A16866, Sht. 90



PROJECT NO. 98-047 PROJECT NAME: NOODT-BL. NO. AK664-58 1-435 OVAL ROTILOOD Trocks S:/980+7/STR/A1886+/DCN/ARPLN32.06N

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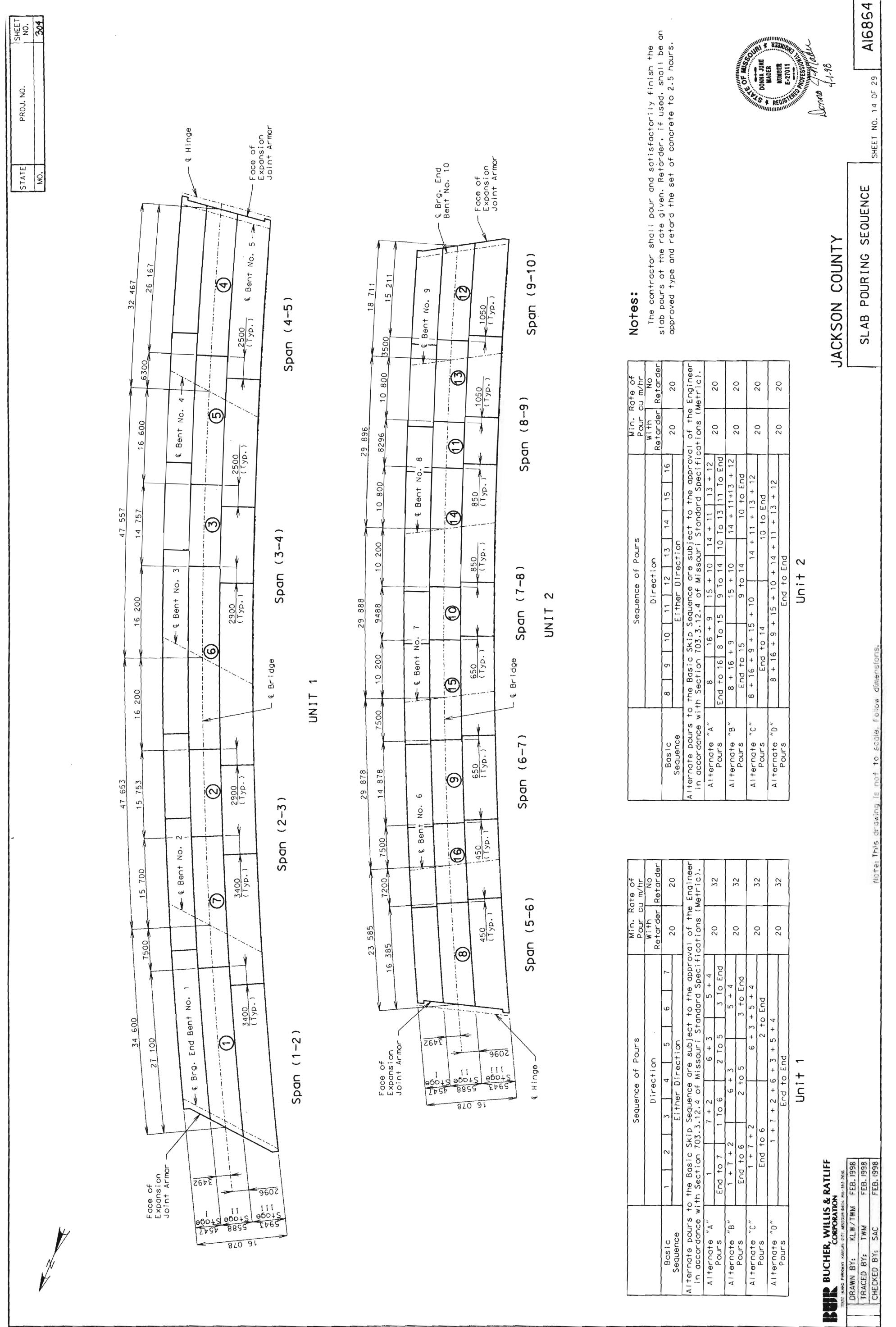
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A16866, Sht. 91



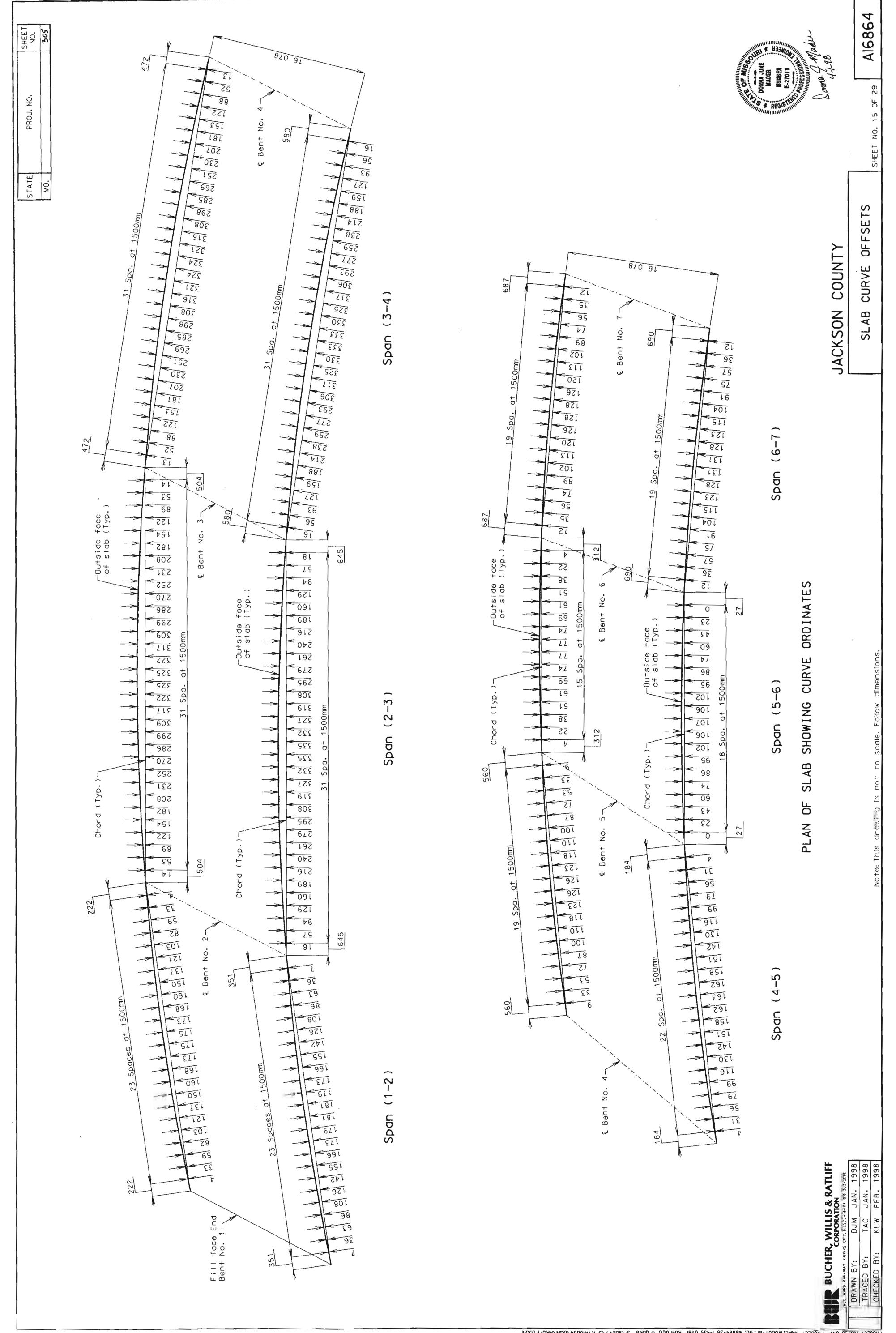
PROJECT NO. 98-041 PROJECT NAME: MODOT-BE. NO. 98-101 PROJECT NO. 98-041 PROJECT NO. 98-0

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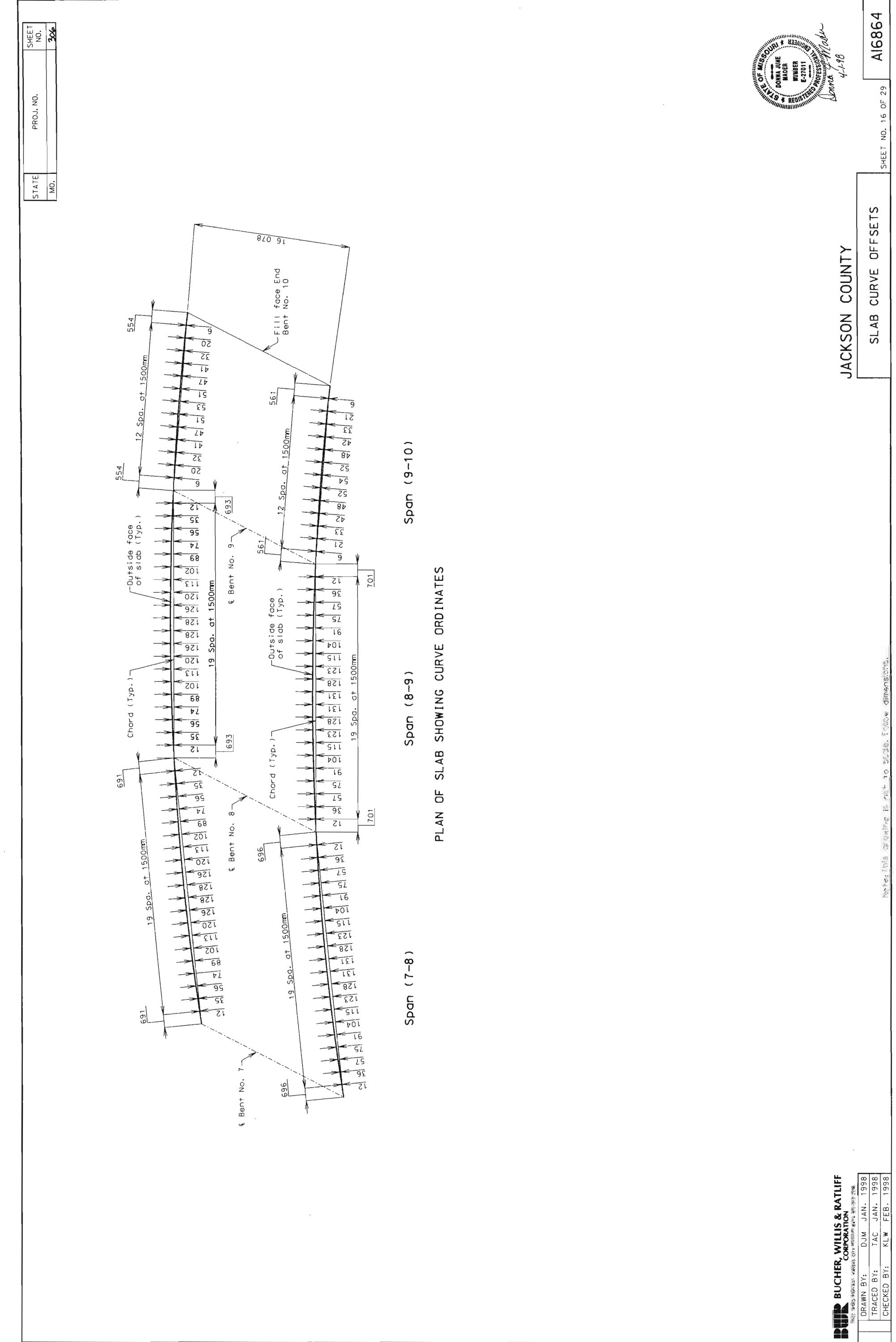
A16866, Sht. 92



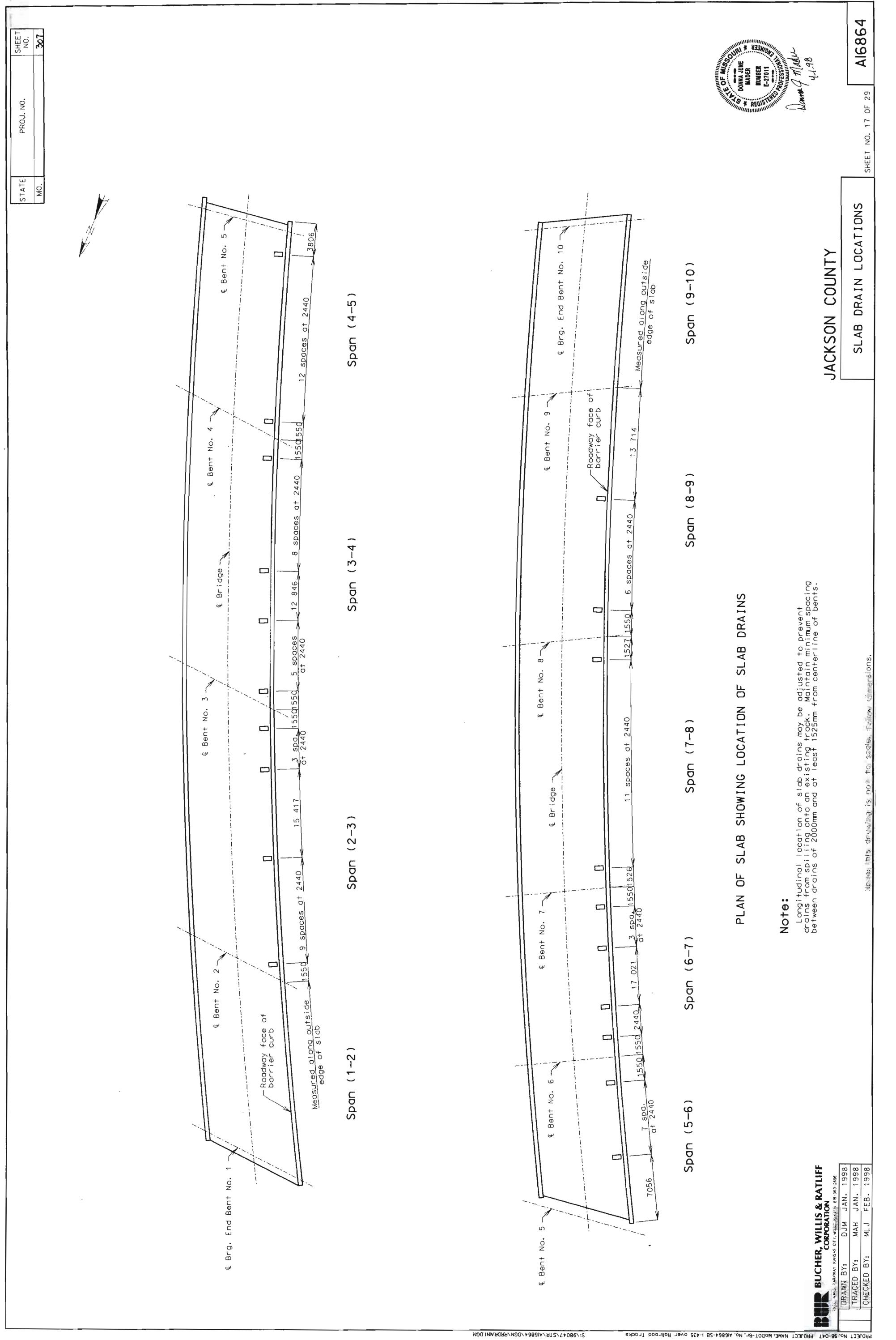
PROJECT No. 98-041 PROJECT NAME, NODOT-BC. NO. MERGA-58 1-435 048C ROTICODO TODOKS S: 1980477578 NODOT-BC. NO. 98-041 PROJECT N



A16866, Sht. 93

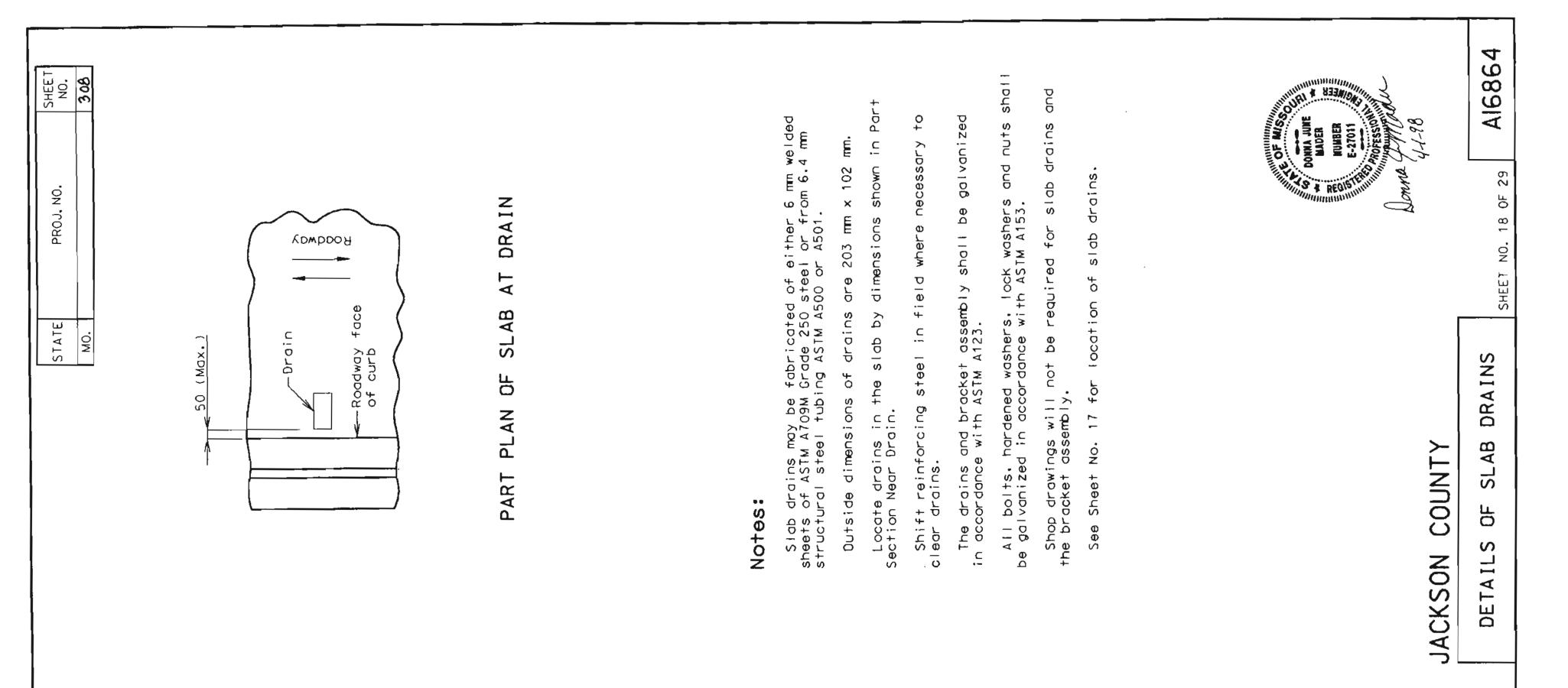


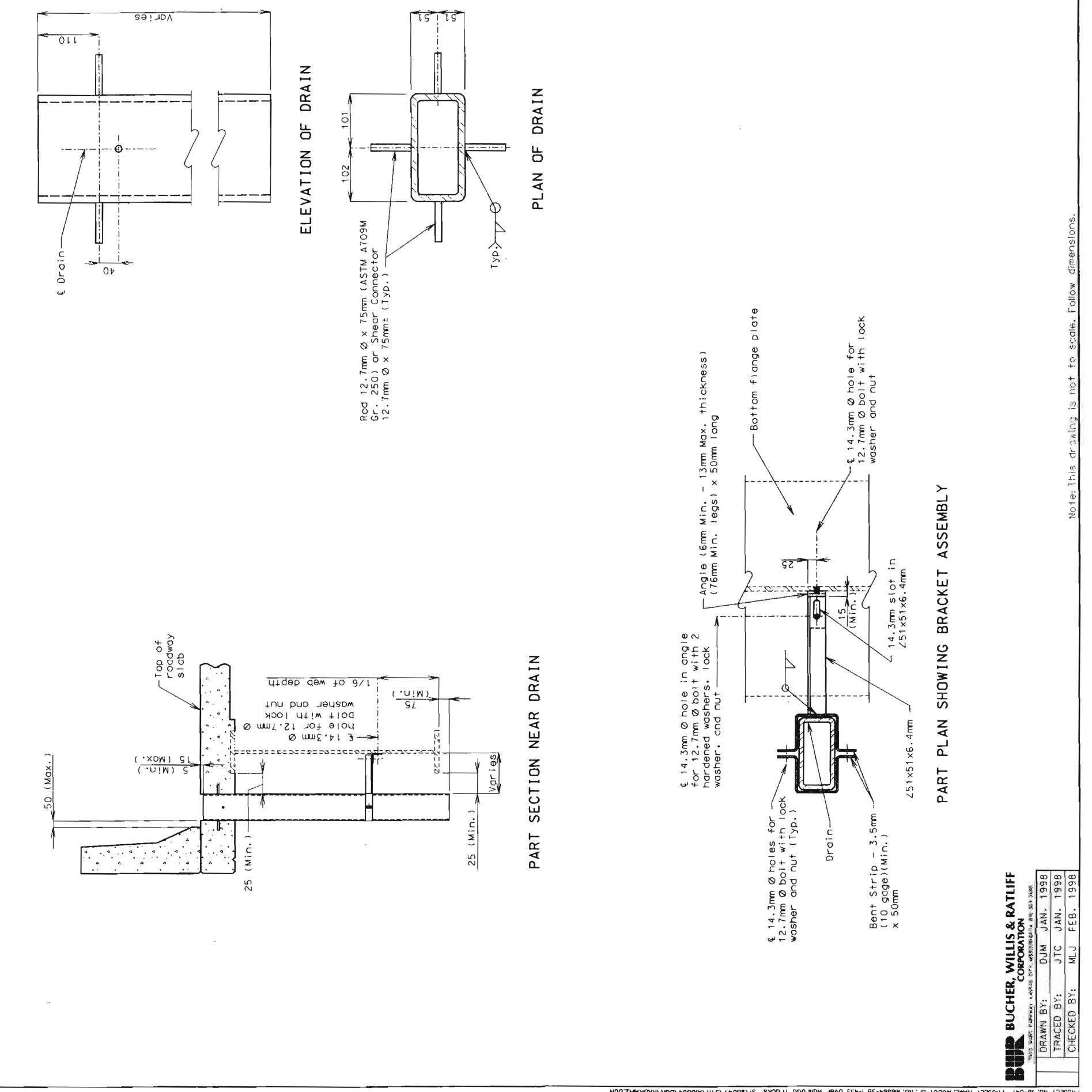
PROJECT NO. 98-047 PROJECT WAWE: MODOT-BL. NO. AIG864-58 1-435 0465 ROILOOD ICOCK8 S:/980477/STR/AIG864/DCN/ROFF2.0CN

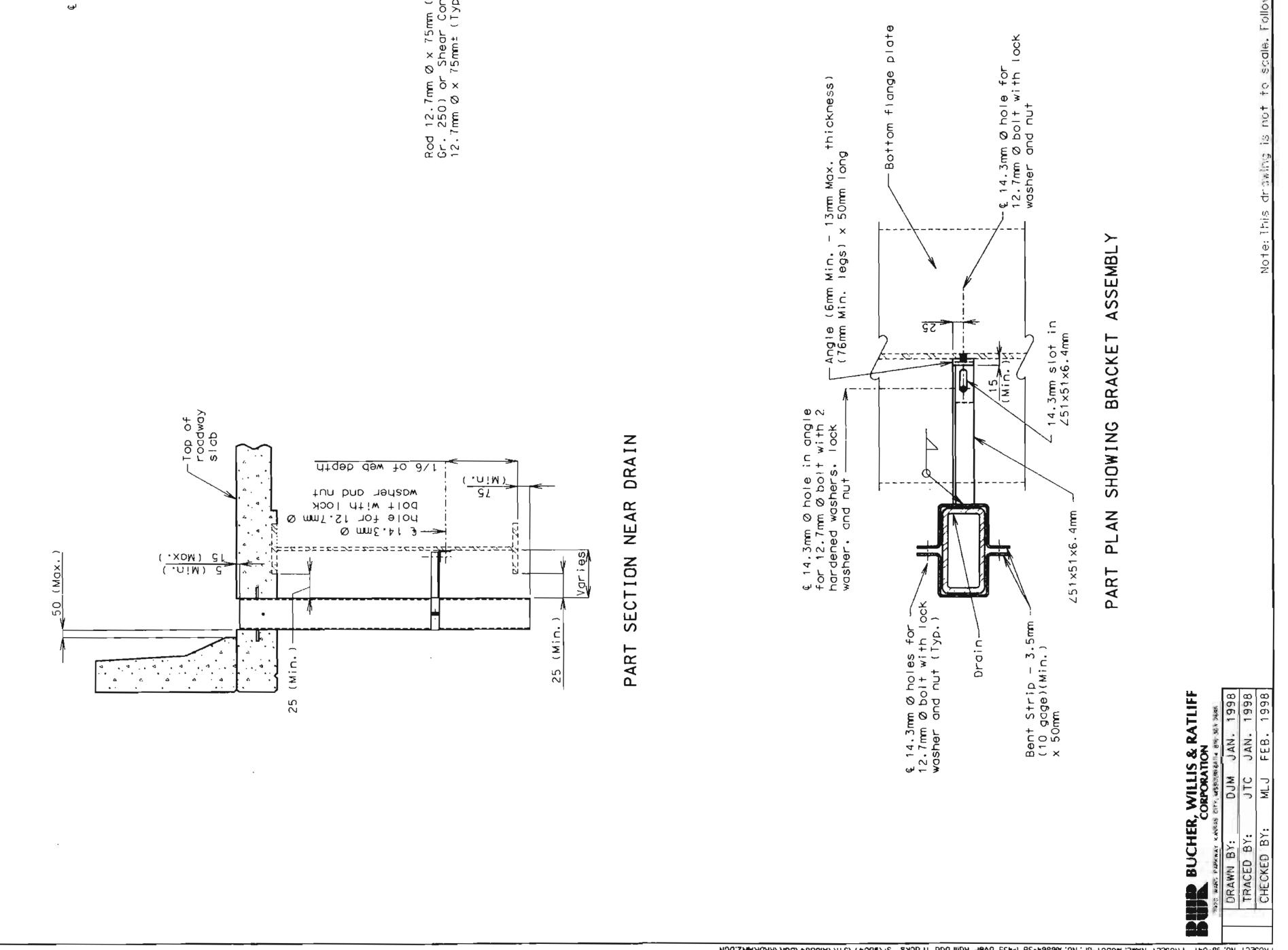


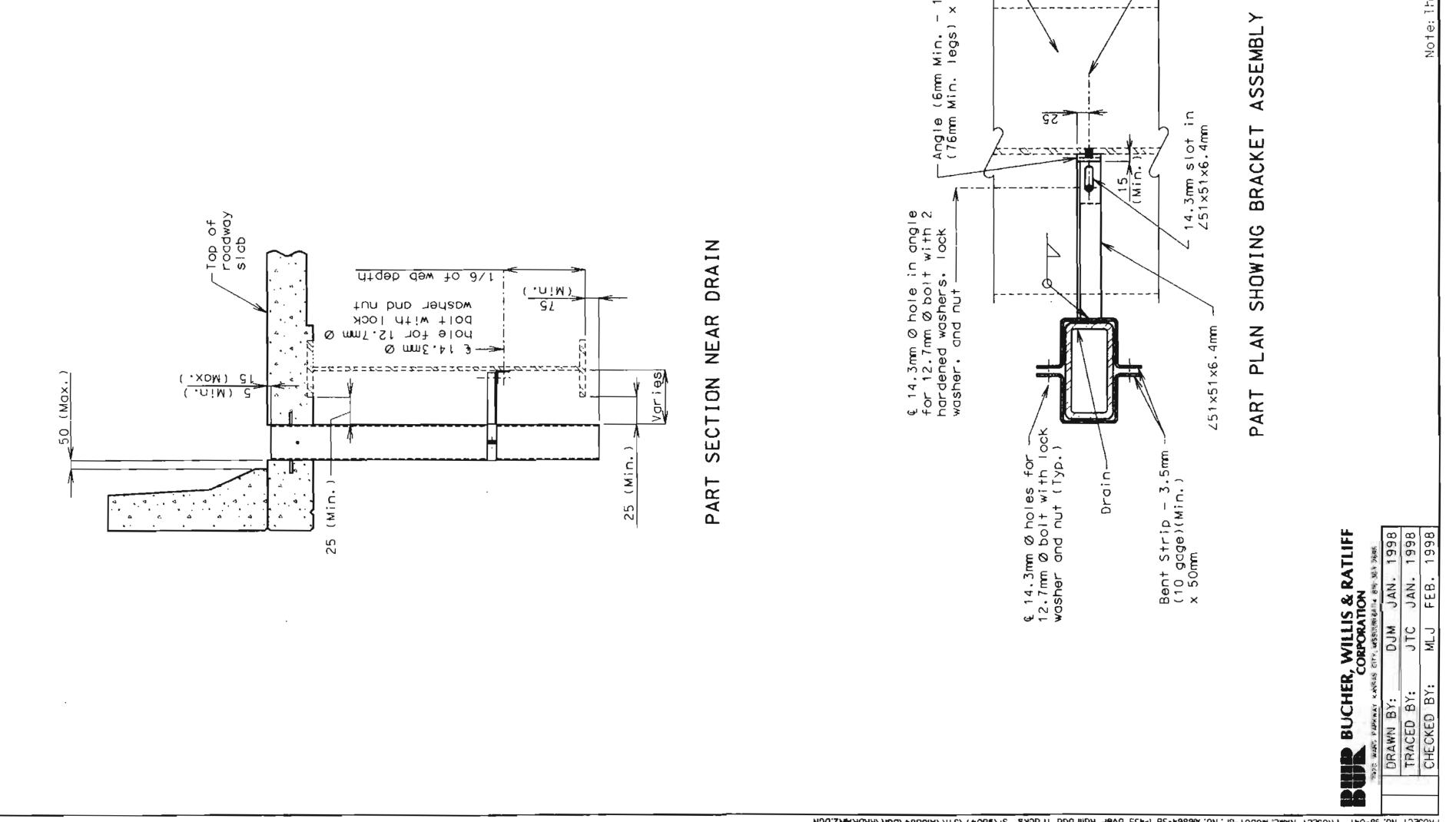


A16866, Sht. 95







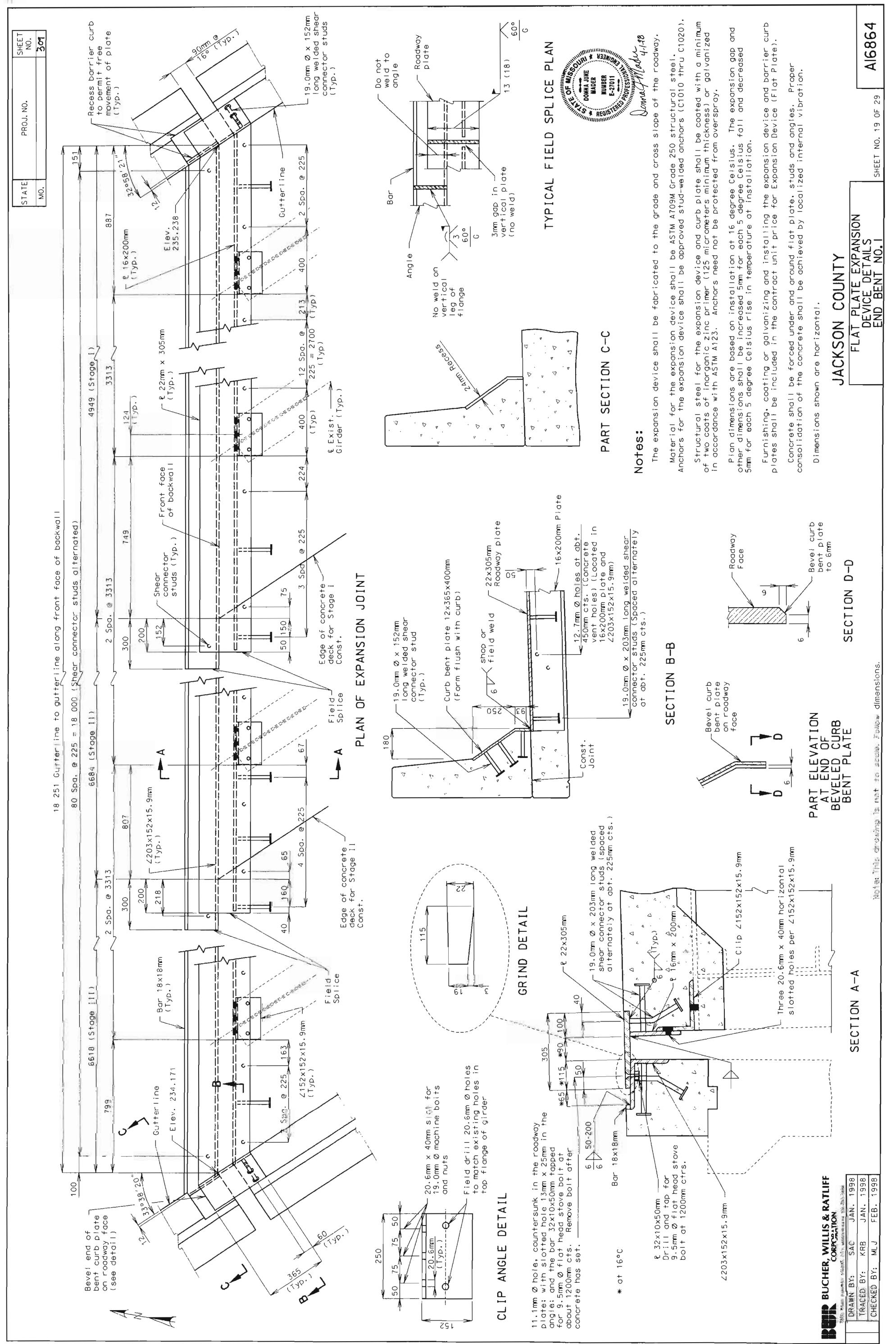


PROJECT No. 98-047 PROJECT NAME: NODOT-BC, No. SEG64-58 1-435 0VOC ROLLOOD TOOCKE S: 198047/STR/ABB64/DCN/RRDRAW2,DCN



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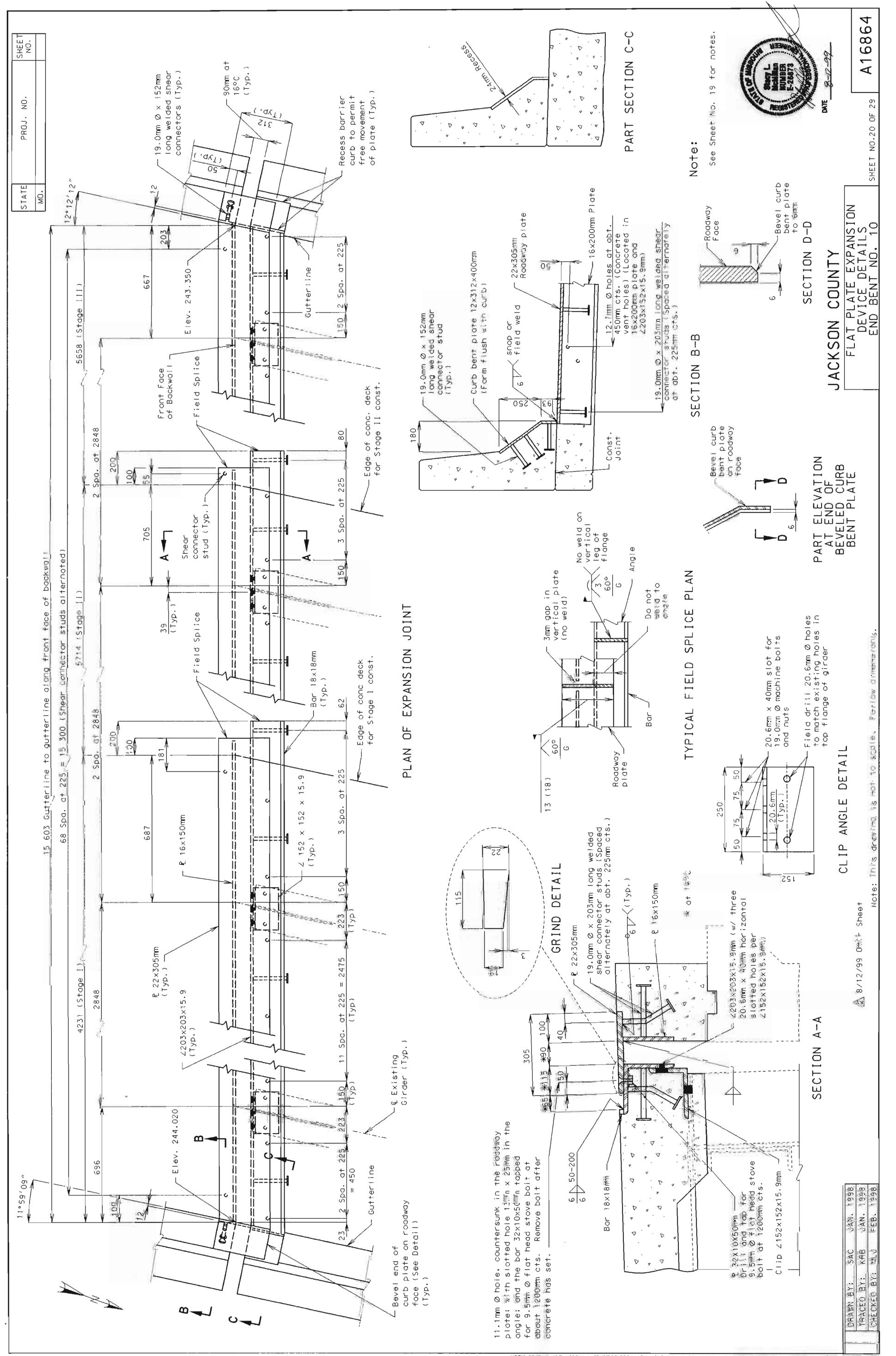
A16866, Sht. 96



PROJECT No. 98-047 PROJECT NAME: NODOT-BH. NO. BIS 4-435 0VOL ROTHOOD TOOCKS S: 1980477578/A16864 DCN/RREXEBIDGN

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A16866, Sht. 97



PROJECT No. 98-047 PROJECT NAME: MODOT-Br. No. A16864-58 1-435 OVER ROILLOGO BRONCHARESER/DEN/RREXEBIO.DEN

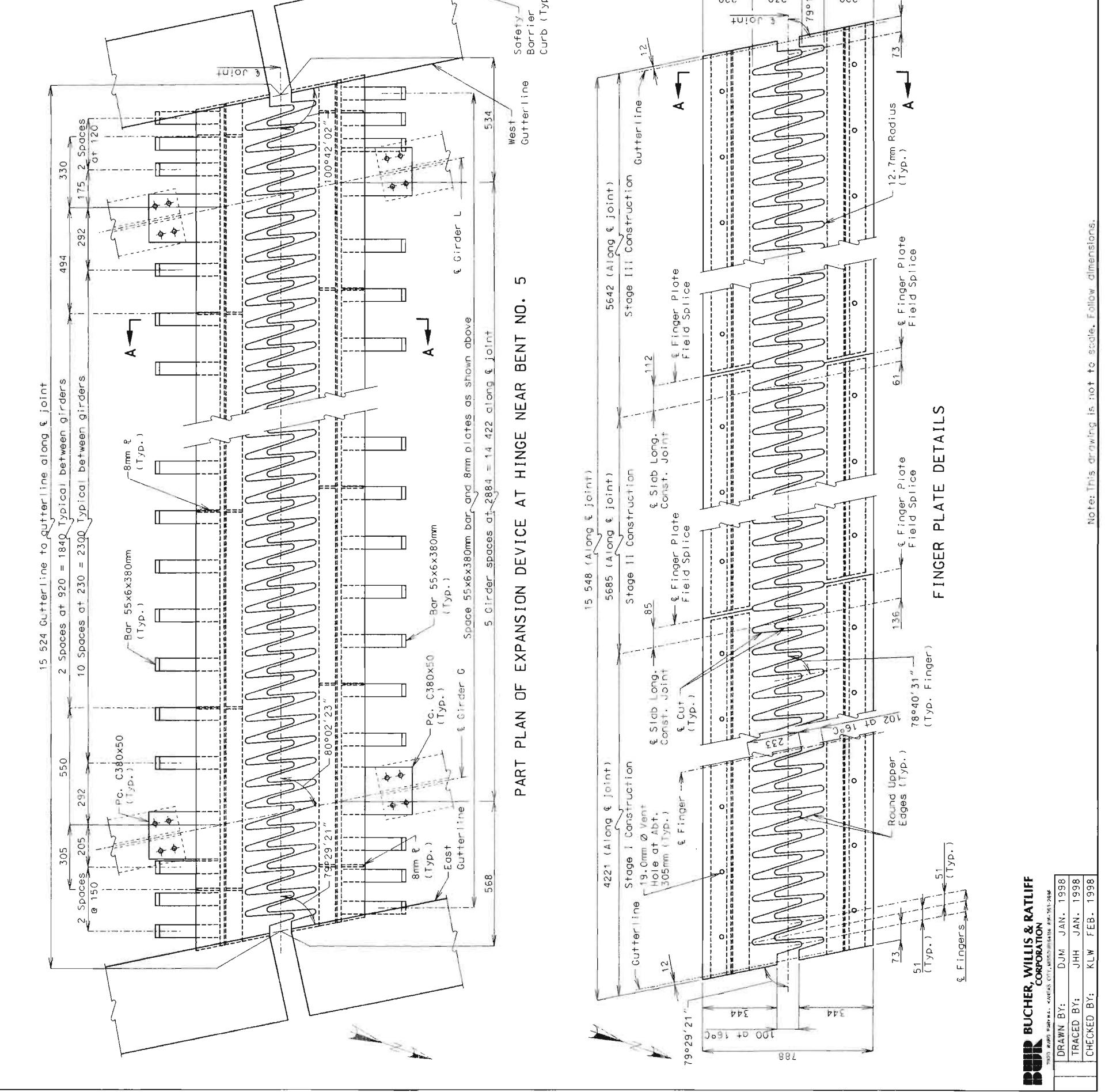


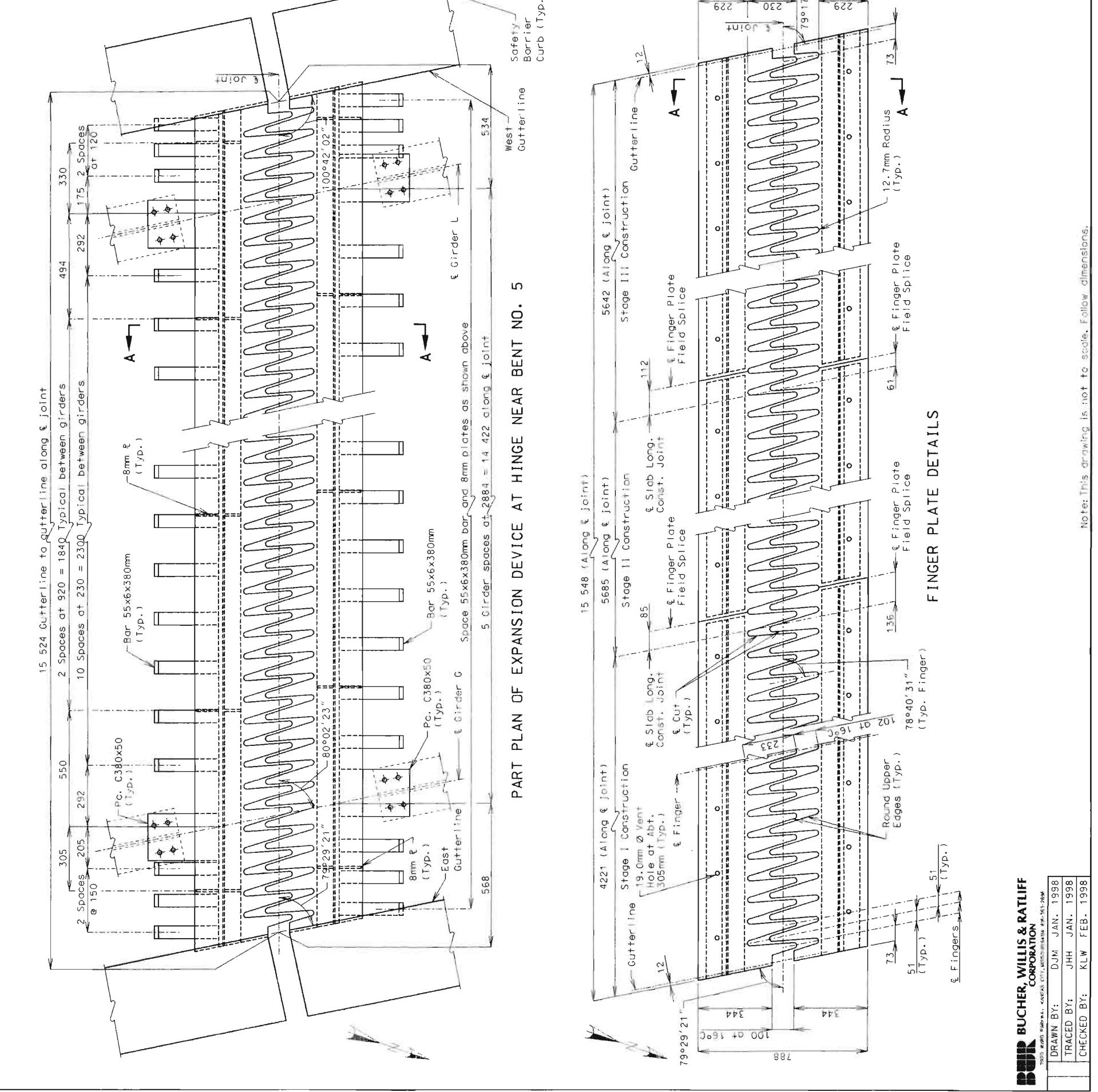
A16866, Sht. 98

STATE FROJ. NO. SHEET MO. 31	Notes: Finger plate shall be duf with a machine guided gas forch from one plate are not equal. See finger plate shall be advised in this sheat. Finger plate plate shall be advised in a machine guided gas forch from one plate the ut shall not extrant into the surface of the fingers are dut with a machine guided gas forch from one plate and the straged construction. Finder shall be advised similar be not informed to the surface of plate the straged construction. Finder shall be advised similar be advised before fingers are dut, the plate fingers are dut, the plate shall be best finders and the plate finders are dut in the posterion of comparison of construction. Find and and and mark dimensions shall be increased from the sections as shown for the straged construction. Finder all straged construction. Finder all straged constructions of increased from for each 5 degree Celsius rise in september of the should be advised from the construction and the dimensions of the posterion of the straged from the construction of the strateging of the should be advised from the construction in the strateging of the should be advised from the strateging from the structure strate in the strateging of the should be advised from the strateging from the strateging of the should be advised from the strateging of the should be advised from the strateging from the structure strate from the strateging of the should be advised from the strateging from the structure strate in the strateging of the strateging of the should be advised from the strateging from the strateging of the should be advised from the strateging from the strateging of the should be advised from the strateging from the should be advised from the strateging from the strateging from the strengt be	FINGER DETAIL	JACKSON COUNTY Martine FINGER PLATE EXPANSION NEAR BENT NO. 5 MARCH NO. 7
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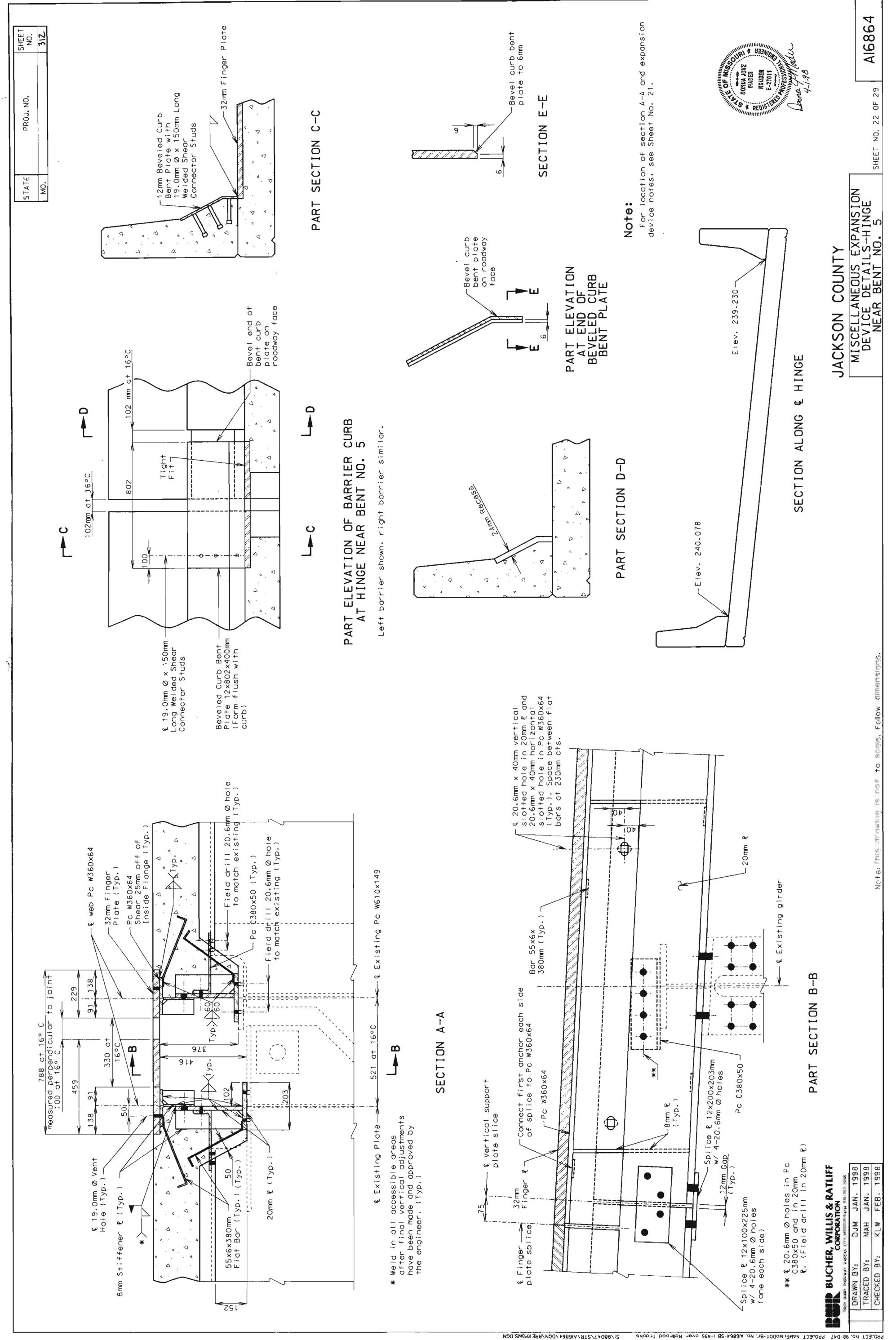




PROJECT No. 98-047 PROJECT NAME: NOOD-BL. No. ALE864-58 1-435 0487 ROTIFODD TOOCKS 5: Y980477518/NBGN/RREXP.064



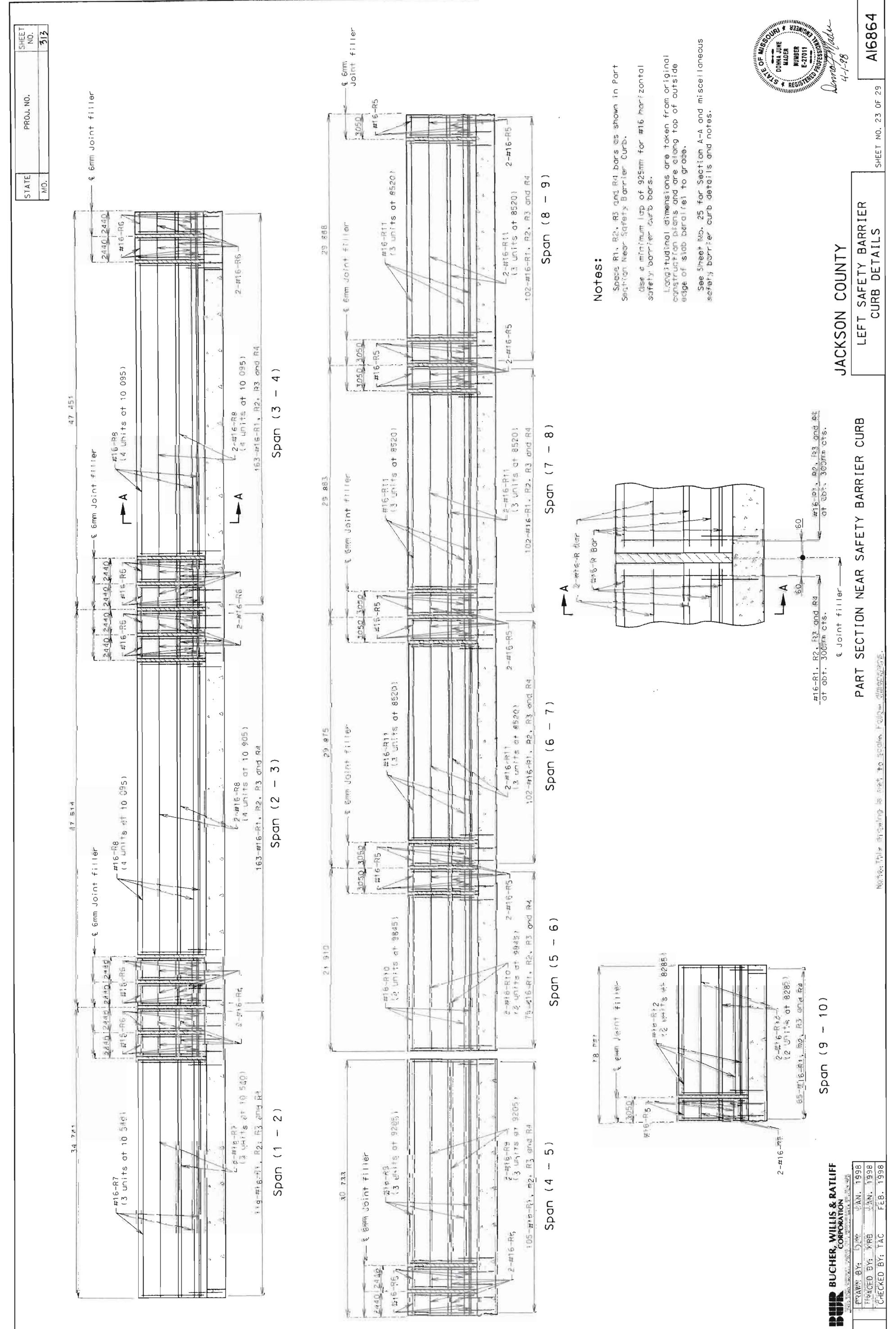
A16866, Sht. 99





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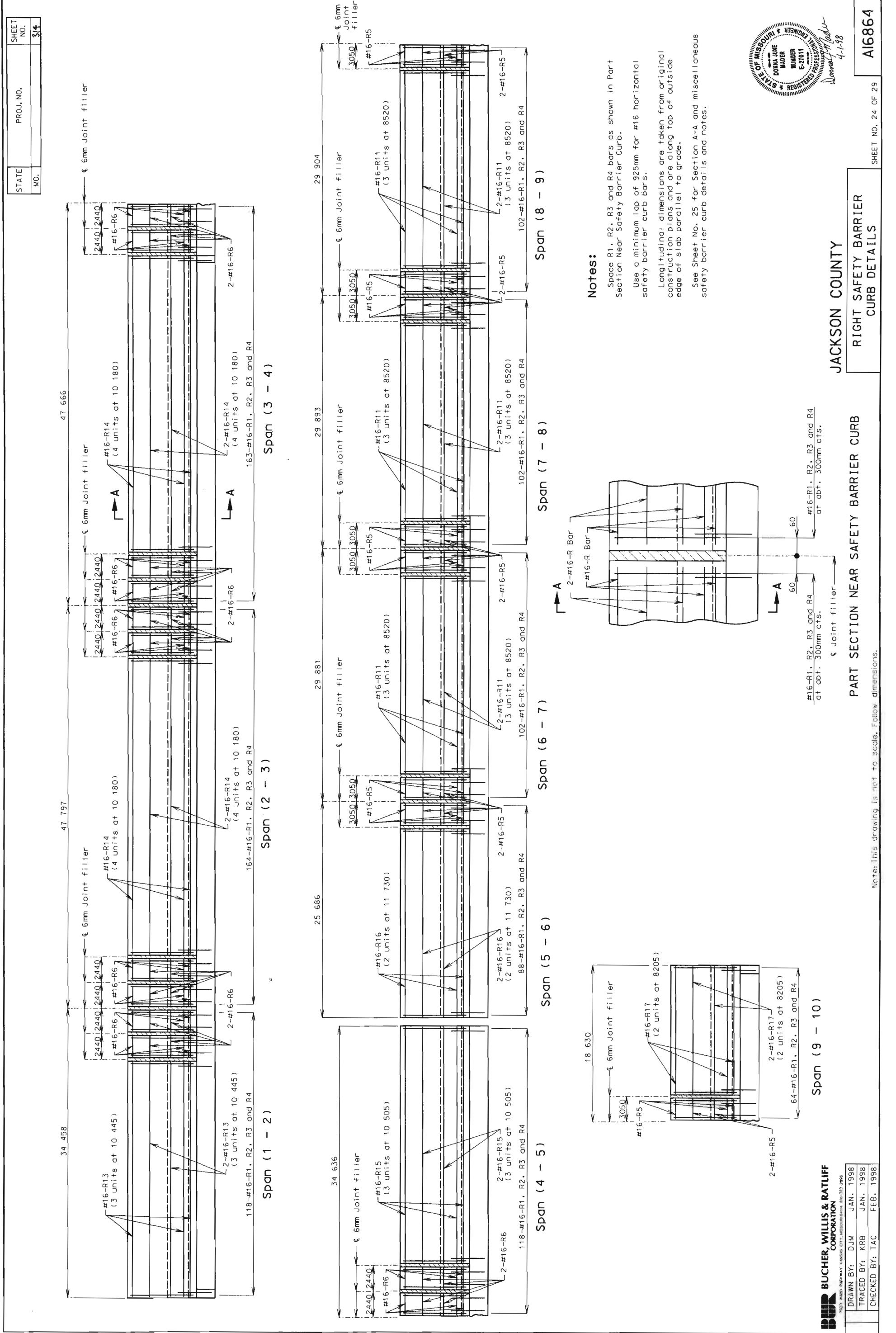


PROJECT No. 98-047 PROJECT NAME: MODOT-Br. No. A16864-58 1-435 OVER ROllroad Trocks S:/98047/518/A16864/DCN/ HTV 8, 000







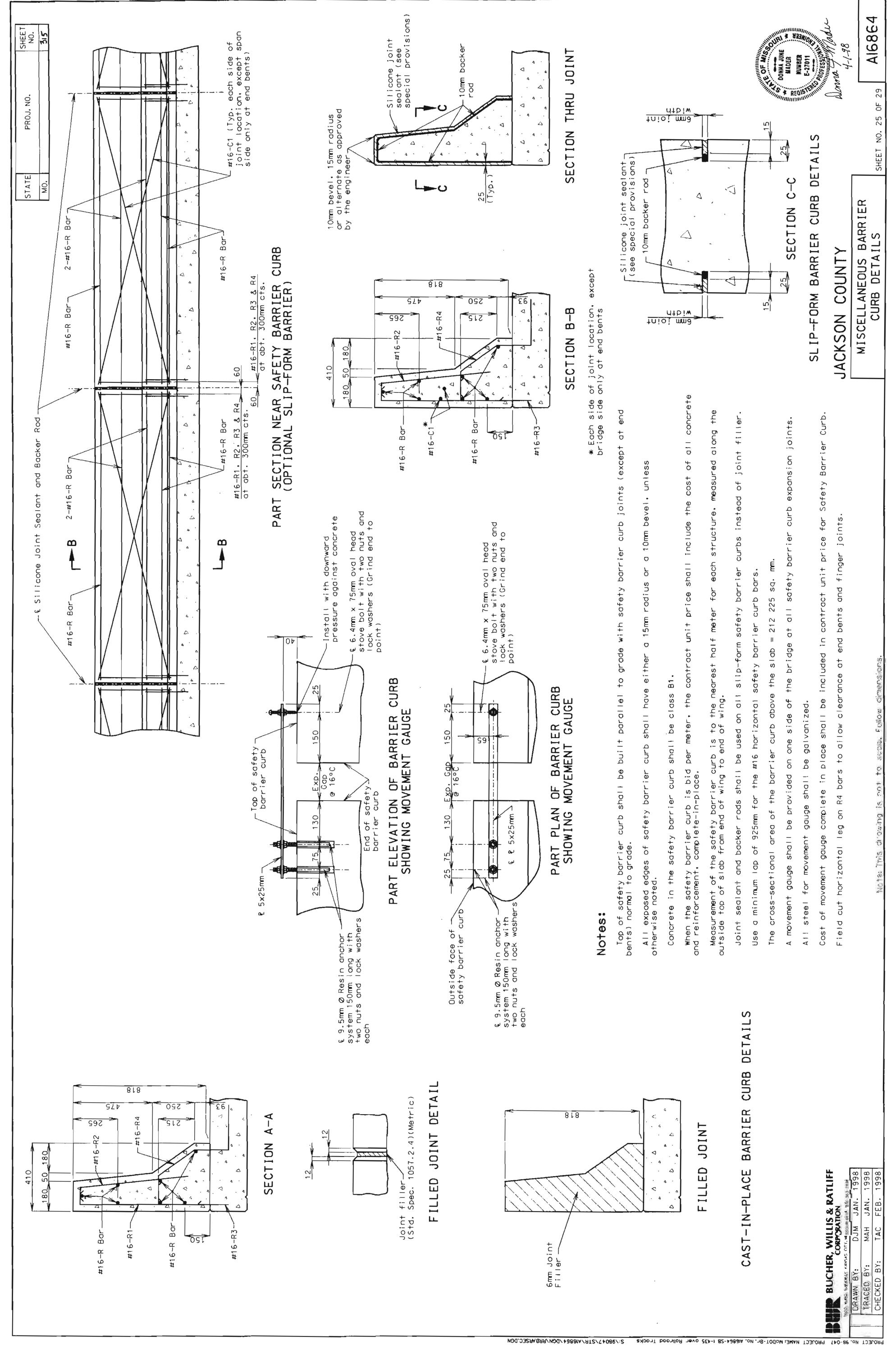


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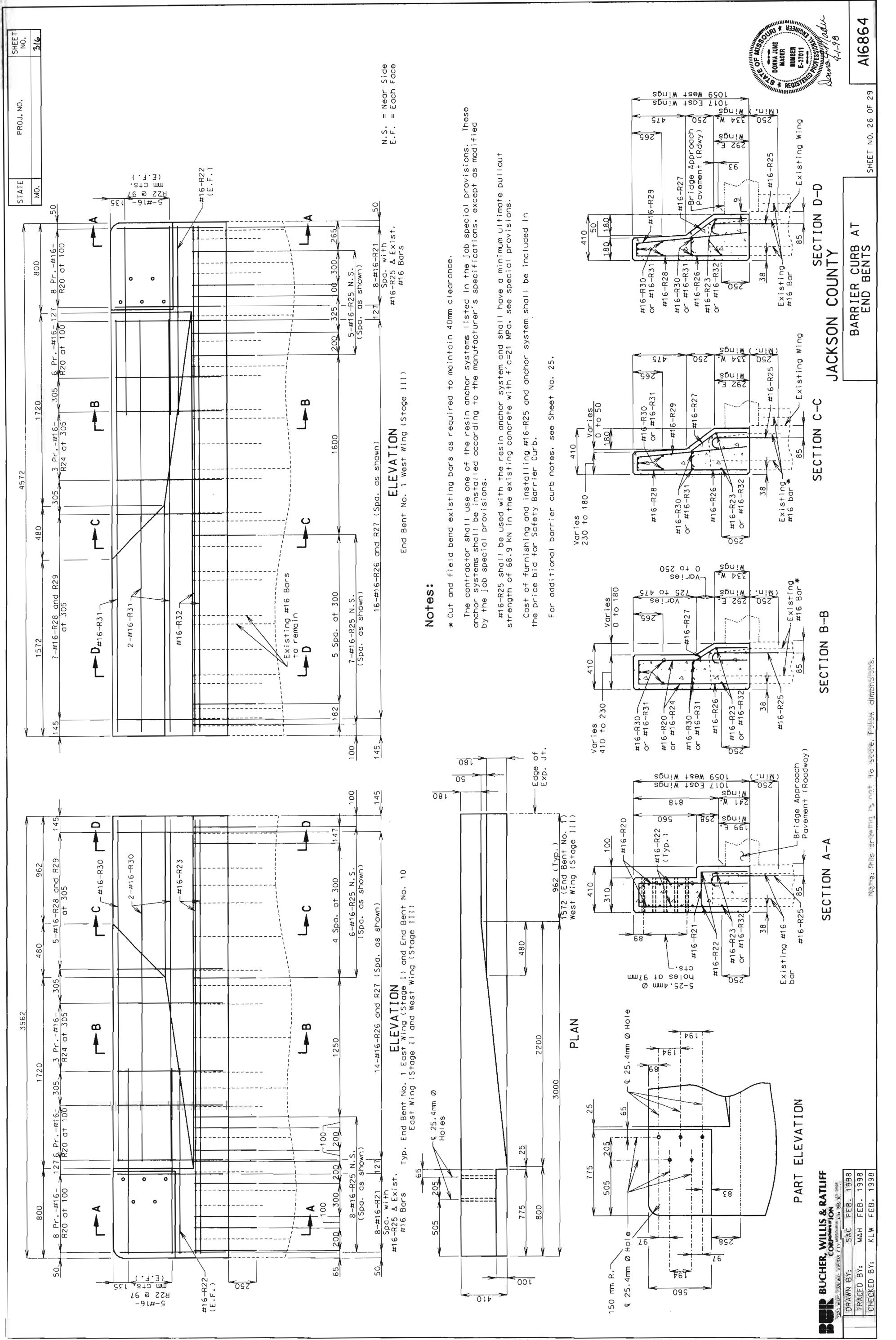


PROJECT No. 98-047 PROJECT NAME: NODOT-BC. NO. ANE NO 225-1 82-1864-28 1-435 0VOC ROTICOCK 5: 490-067 757578664 0007-84 0007-84





A16866, Sht. 103



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PROJECT NO. 98-041 PROJECT NAME: NODOT-BC. NO. 98-125 1-435 0VOF ROTHOOD TLOCKS S:/98047772/278/28064/DCN/RRBARBT.DCN





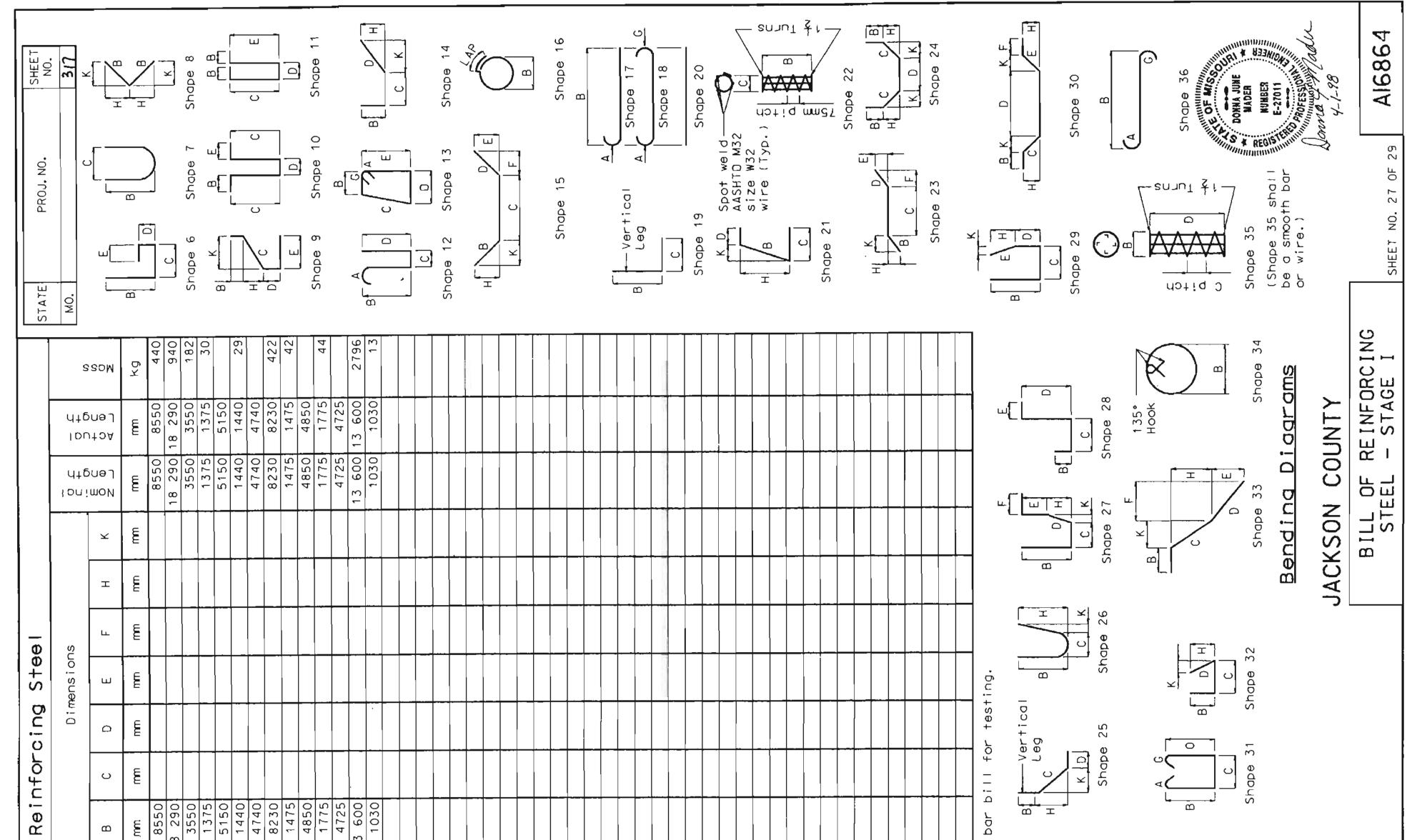
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A16866, Sht. 104



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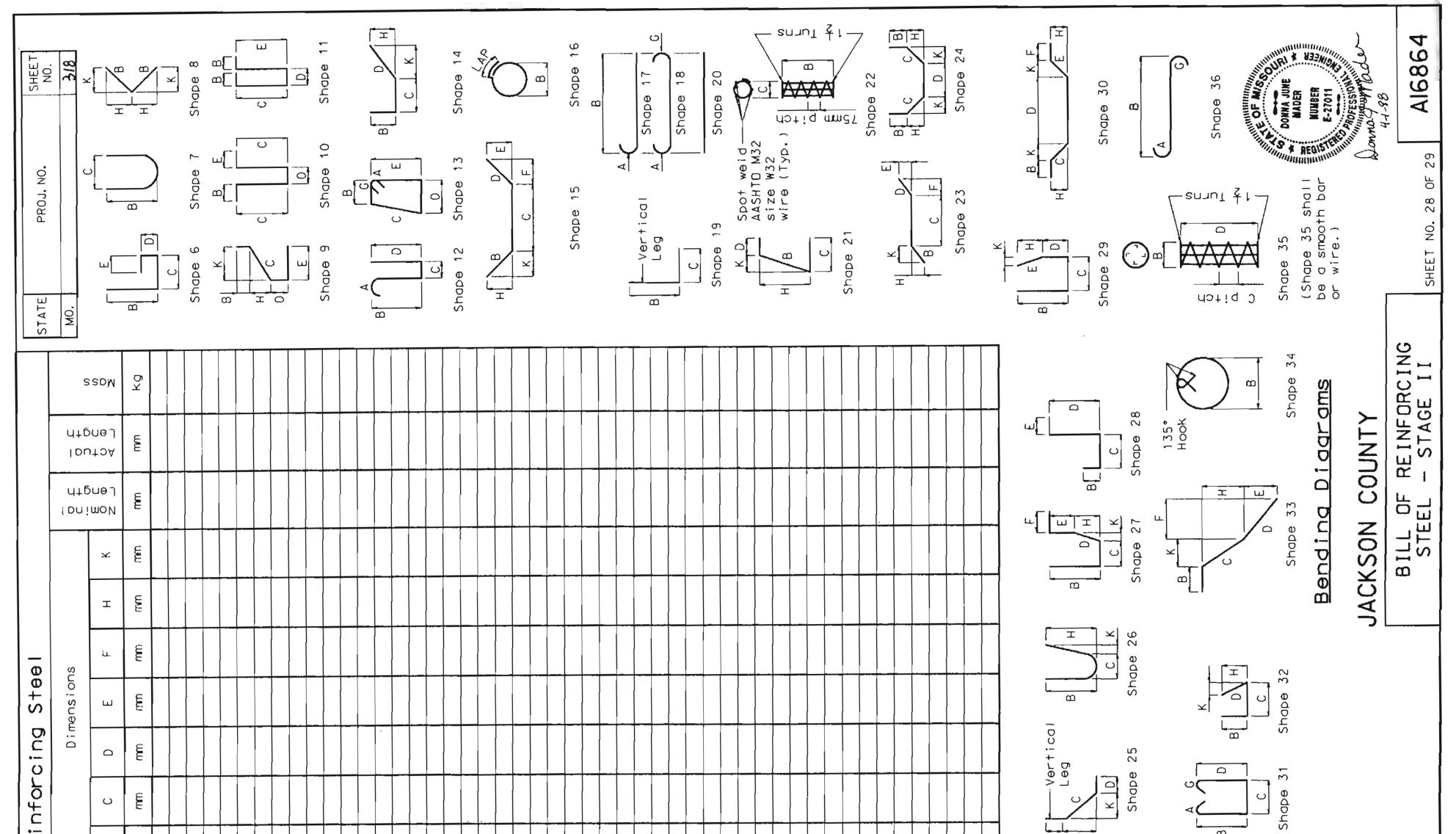
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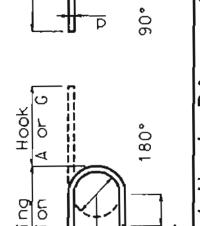


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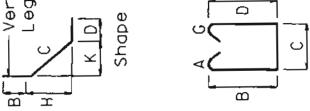
- All standard hooks and bends other than 180 deg. are to be bent with same procedure as for 90 deg. standard hooks. Hooks and bends shall be in accordance with the procedures as shown on this sheet. E = Epoxy coated reinforcement S = Stirrup S = Stirrup V = Bar is included in substructure quantities V = Bar dimensions vory in equal increments between dimensions shown on this line and the following line. No. ea = Number of bars of each length. No. ea = Number of bars of each length. No. ea = Number of bars of each length. No. ea = Number of bars of each length. No. ea = Number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each length. No. ea = number of bars of each lengths. Four angle or channel spacers are required for each column spiral. Spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and mass of column spiral secon not include splices or spacers. Reinforcing steel (Grade 420) fy = 420 Mpa



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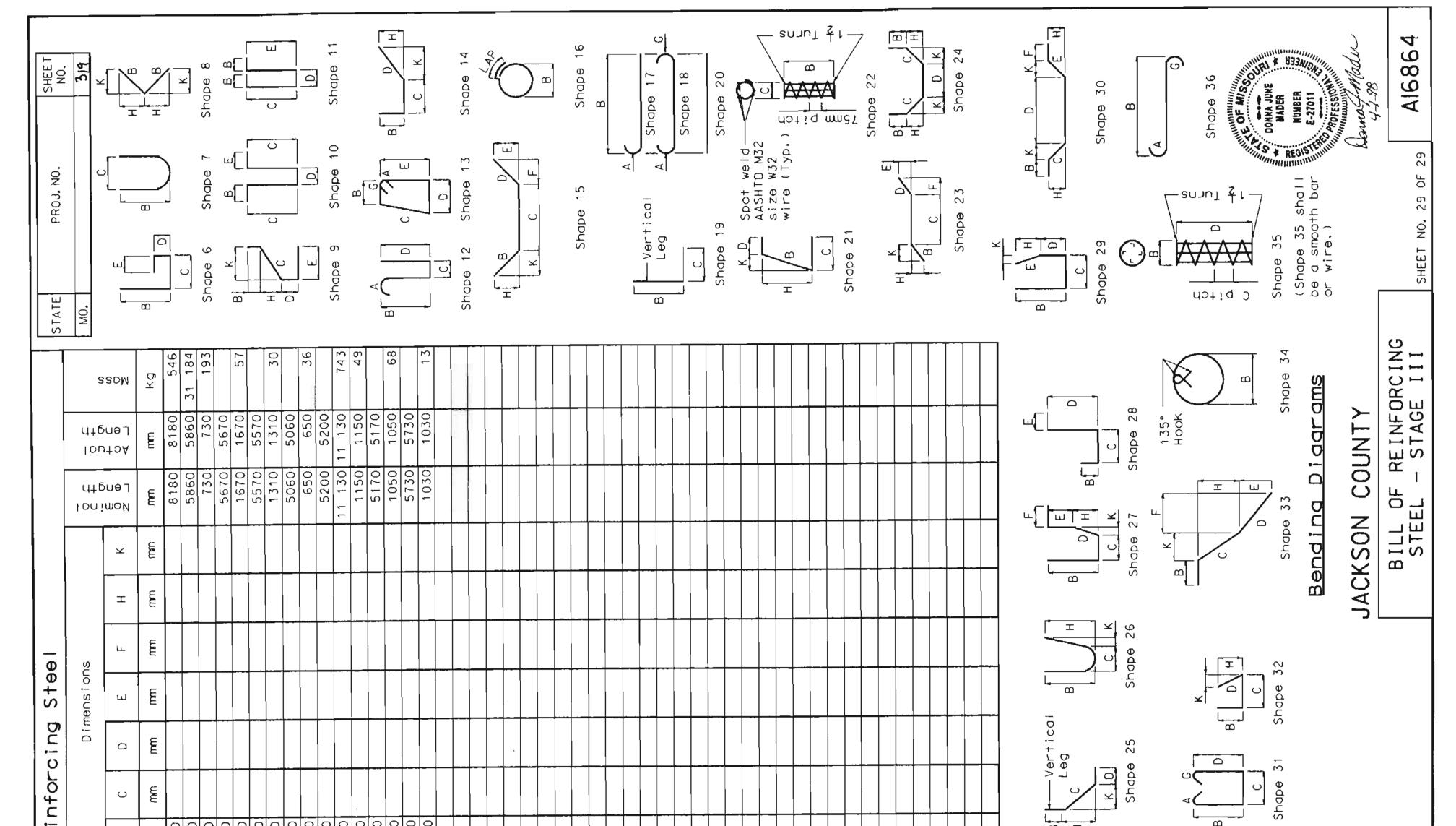
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PROJECT No. 98-047 PROJECT NAME: NODOT-BL. No. N6864-58 1-435 0494 ROlirood Tracks 5:/98047/STR/A16864/DCN/RRBOR2 DCN

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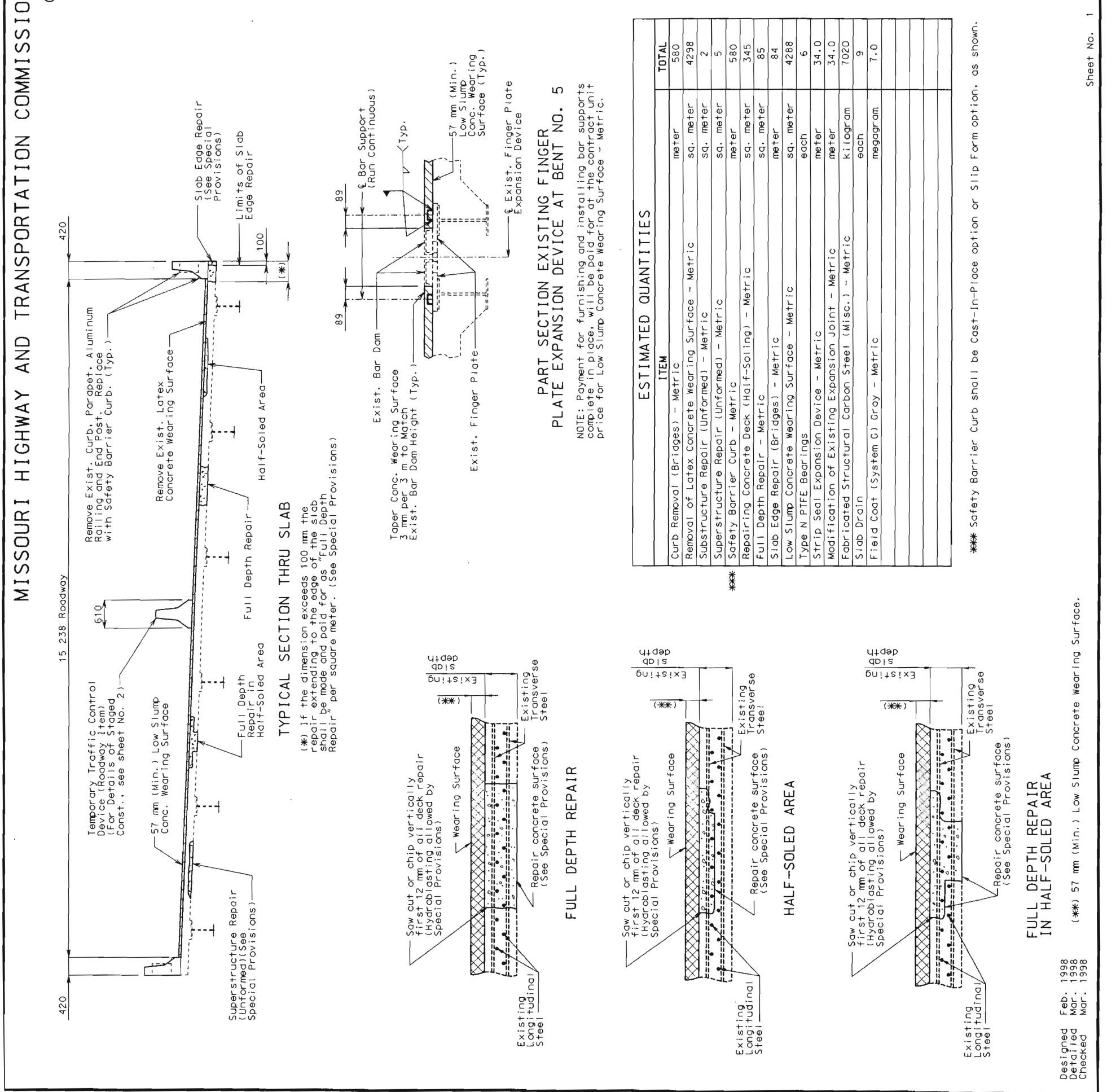
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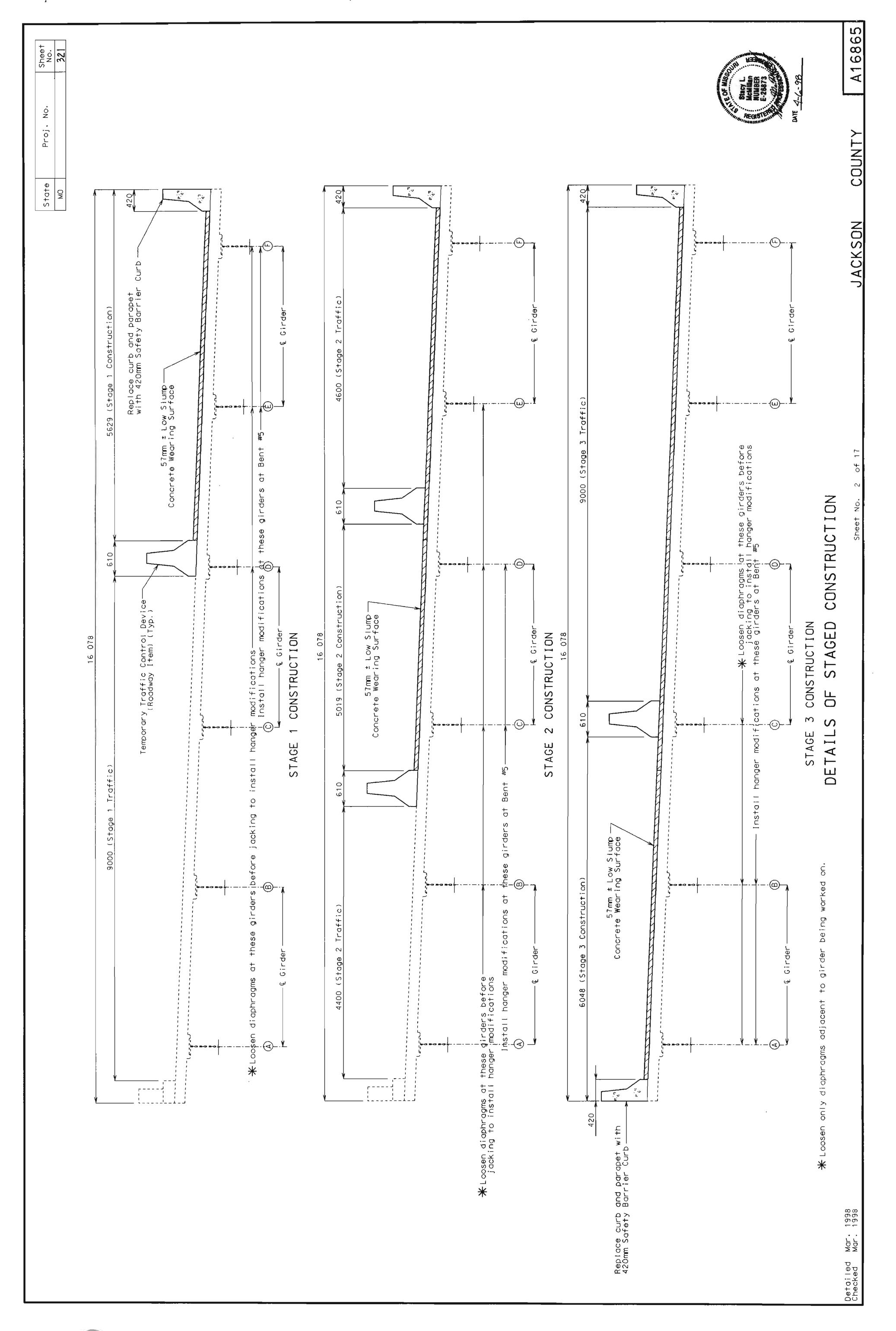
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PROJECT NO. 98-047 PROJECT NAME: NODOT-BH. NO. AIG864-58 1-435 OVAL ROTIFOOD TLOCKS S: /88047/STR/AIG864/DCN/RRBORJ.DCN

No. Sheet No.	50N Rge. 32W											De		THE STORE ST	MISSOURI RIVER	STD. M STD. M	98 A16865
State Proj. 1	Sec./Sur. 31 Twp	28 MPa. 150 MPa. be 40 mm.	be cleanly possible. If to new concrete at meters for	of Section 1057.2.4 of • except as noted.	included in the Steel. Tint of the f	I be Gray (Federa) He and finish coats per Megagram	nes. Heavy lines	construction.	ld before ordering	match bridge overlay.	um thickness of overlay to use additiona! ons throughout the for additiona! labor. in thickness of overlay.	 unless otherwise specif except as noted. ons. be sampled for quality ie Missouri Standard FS-712) from Materials 	nion Pacific. KCS and ilroads from top of 8 m for KCS. BNSF. GST ic Railroads from the truction falsework shall	UNION PAC	RTE. 24 TO	- WA -	COUNTY Dote: 4/7/
	fety Barrier Curb). n (Hanger Plate).	ty Barrier Curb) f'c = e 420) fy = 420 MPa. A709M Grade 250) fs = inforcing steel shall	rete not removed shall nto new concrete where d bars shail extend in smooth bars and 30 dia therwise noted.	meet the requirements pecifications (Metric)	the prime coat shall the Fabricated Structu shall be similar to t	of the finish coat shall cost of the intermedia he contract unit price p () Gray.	indicated by dashed 11	traffic control during	y all dimensions in fie	ent to bridge ends to	rade and a minim may be necessary t various locatio will be allowed for variations	in millimeters (m fied in meters (m) e. Foliow dimensic and washers will Section 106 of th and Field Section (arance of 6.553 m for Union Pacific. 10 m for GST and KCT Railroads from t teral clearance of 3.048 m for KCS. B 4.572 m for Union Pacific Railroads f nearest temporary construction false onstruction.	STREE (CT RA	TATE ROUTE 435 FROM	4+312.762	
N General Notes:	esign Specifications: AASHTO - 1996 Load Factor Design (Sa A!lowable Stress Desig	Loading: 18 Modified. Unit Stresses: Jnit Stresses: ass B1 Concrete (Saf ass B1 Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Concrete (Saf and Conc	ss otherwise shown bonded in old con pped and embedded th is available, o t 40 diameters for rmed bars, unless	Filler: II joint filler shall he Missouri Standard ng: (New Steel Only)	rime Coat: The cost o ontract unit price of rime coat for System oat to be used.	Field Coat: The color of Standard #26373). The shall be included in th of Field Coat (System (01d Work: Outline of old work is indicate new work.	Maintain Traffic: See roadway plans for '	ll verif	Roadway Surfacing: Roadway Surfacing adjac	Maintain Grade: In order to maintain gr as shown on plans, it r quanities of overlay a structure. No payment materials or equipment	s: nsions are sho ations are spe are not to sc ength bolts. n e as specified ations (Metric	minimum vertical cle NSF Raitroads and 7.0 ails and a minimum la nd KCT Raitroads and enterline of track to e maintained during c	S TD: DVER GST NSF, AND	ATE ROAD IN	KANSAS CITY JECT ND.	



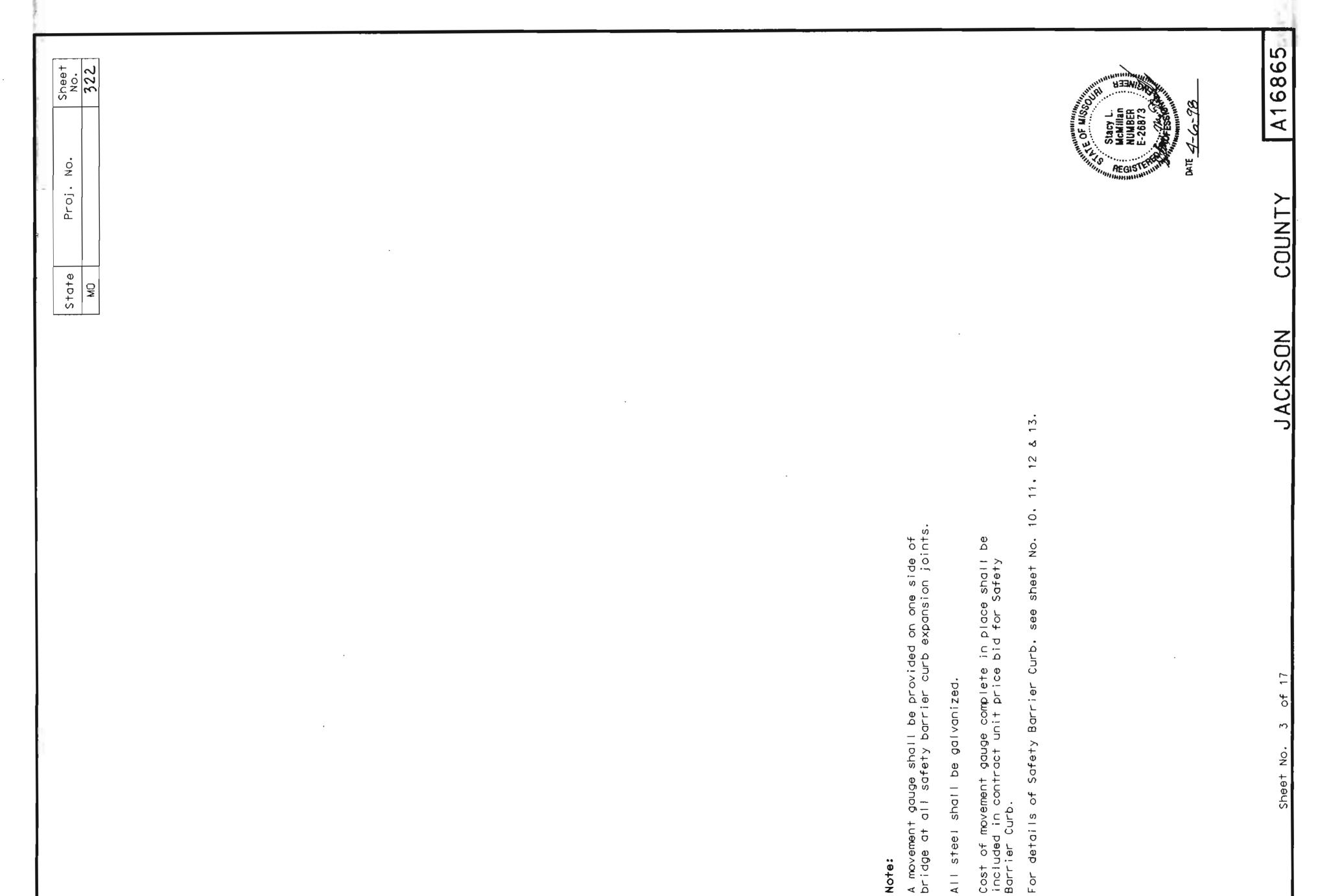
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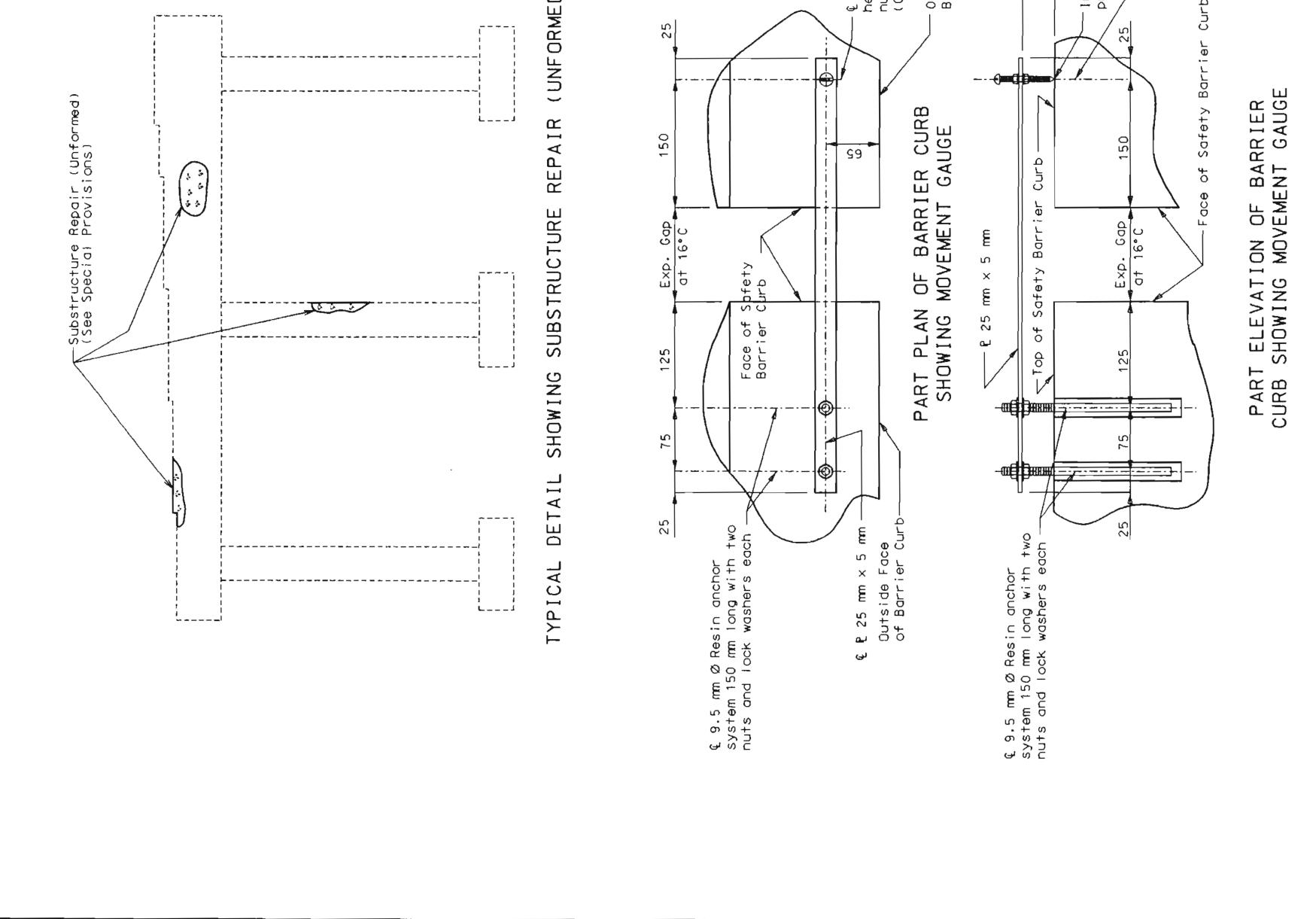


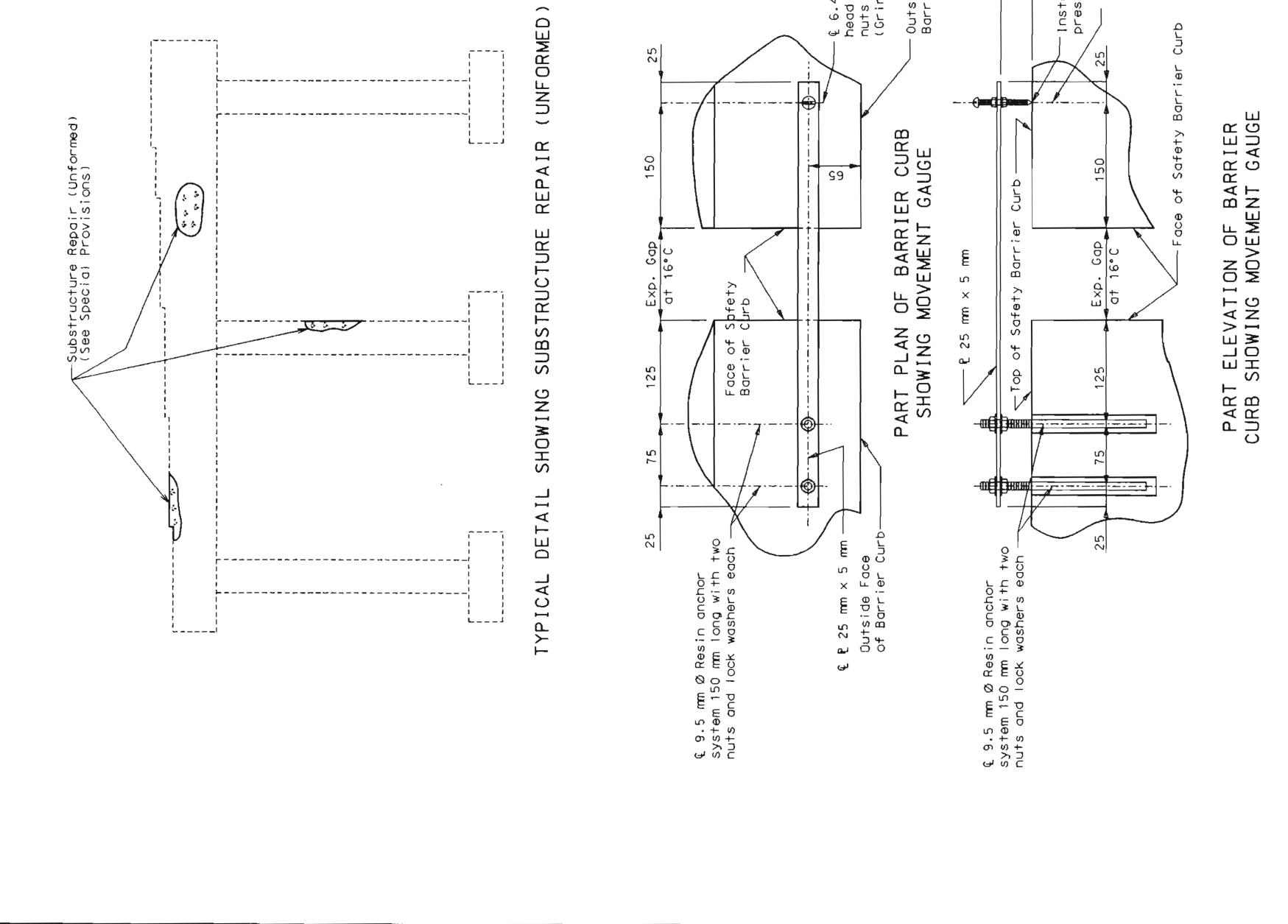


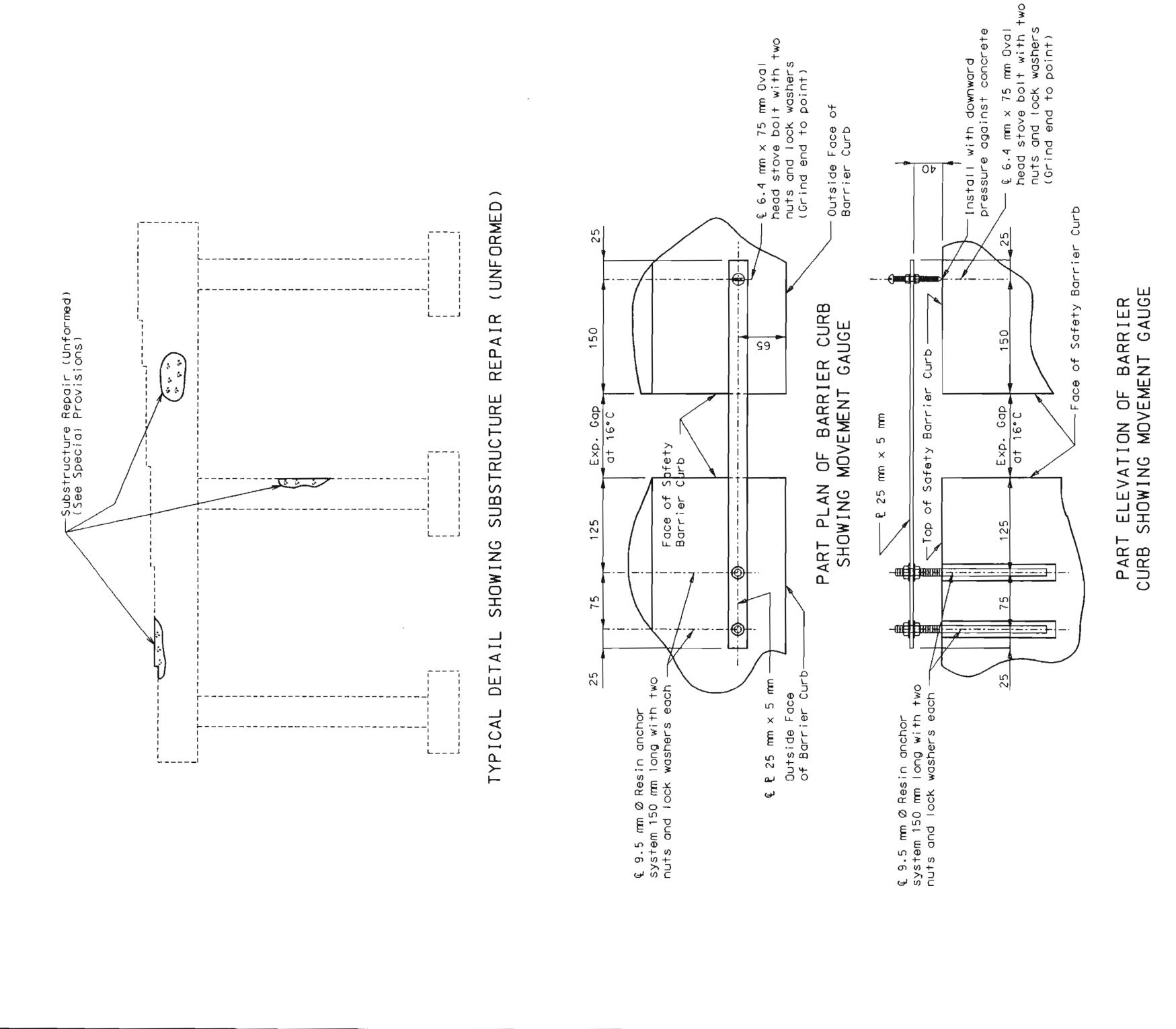
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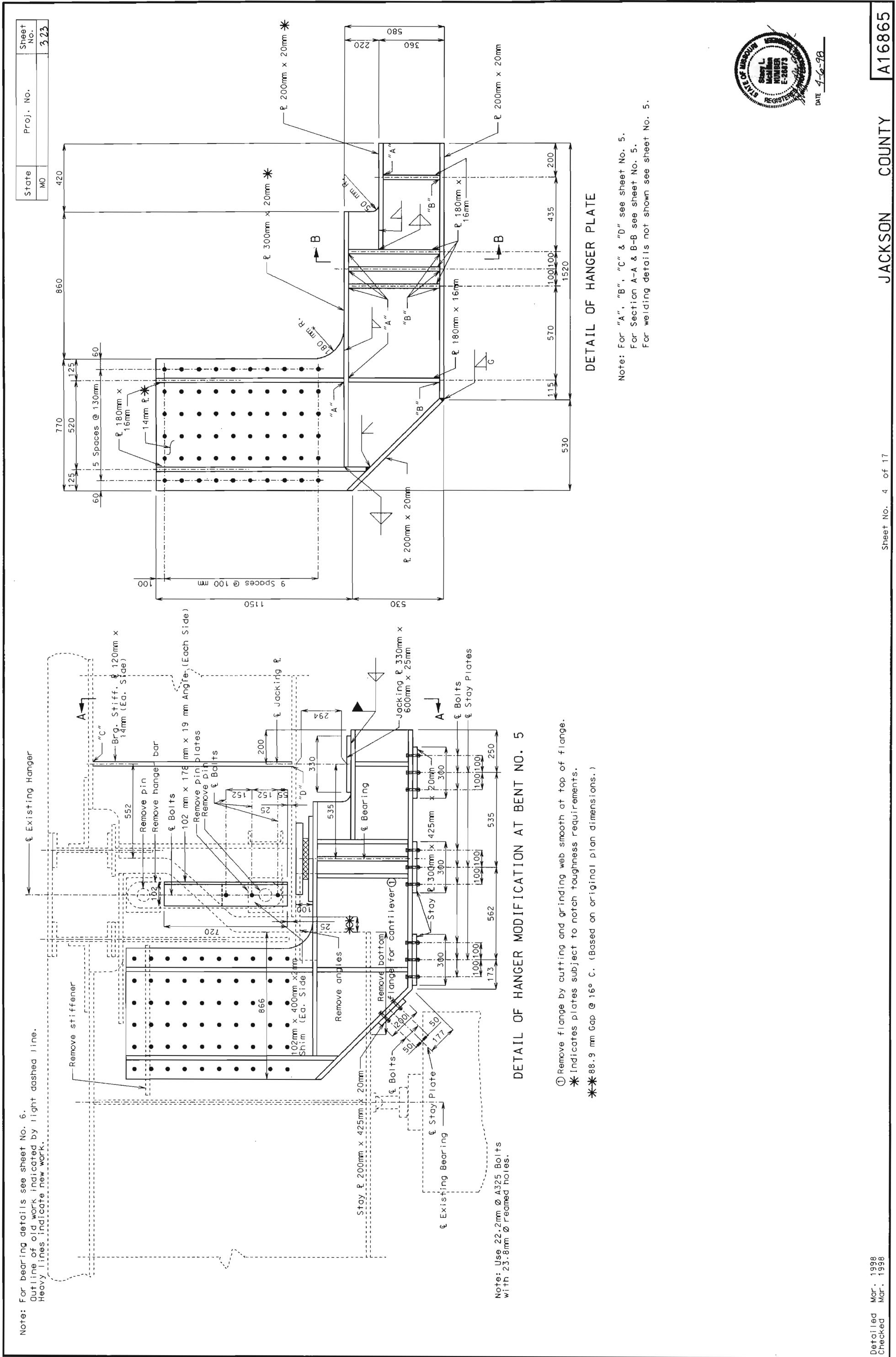
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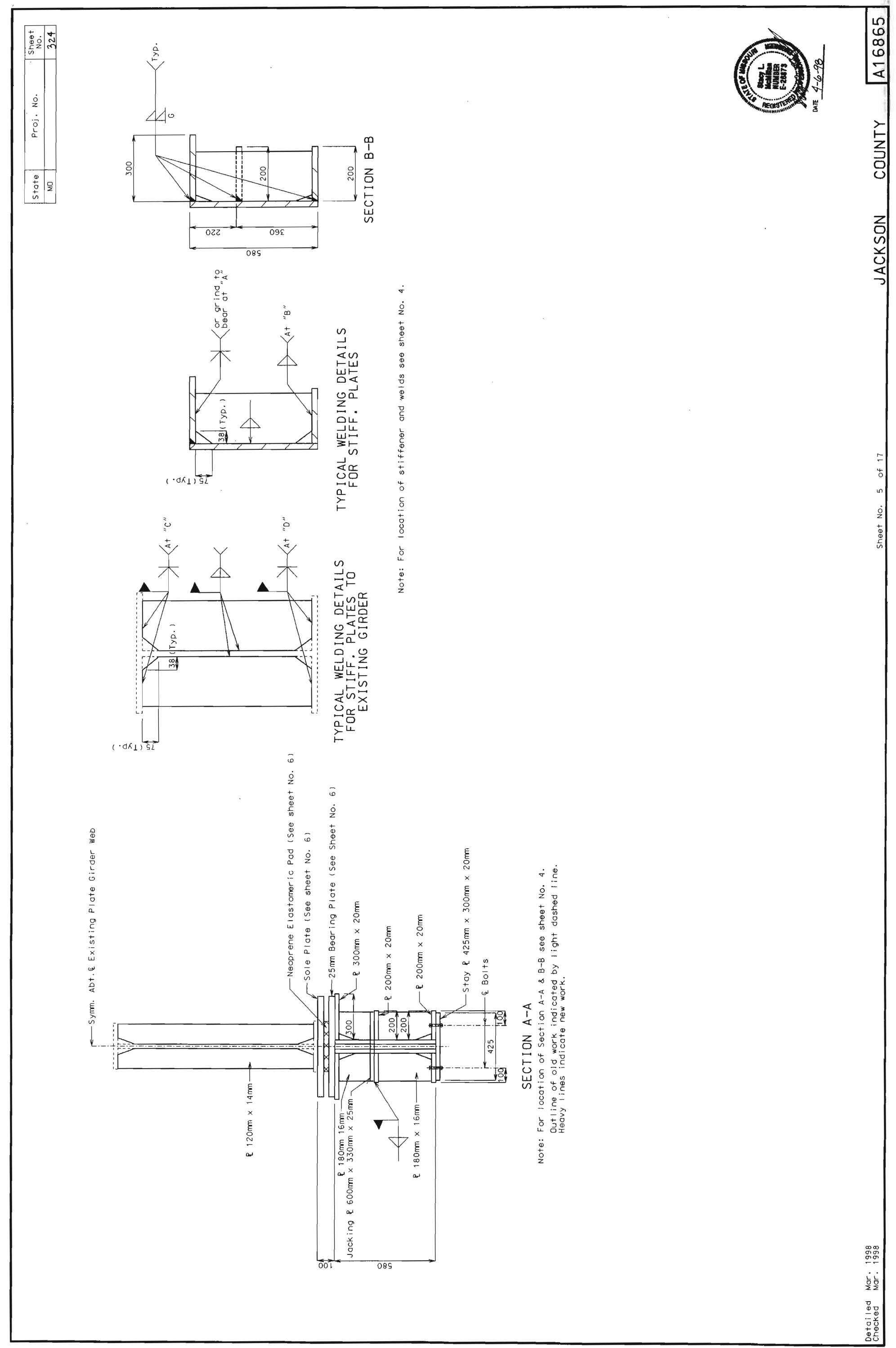
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BEARINGS

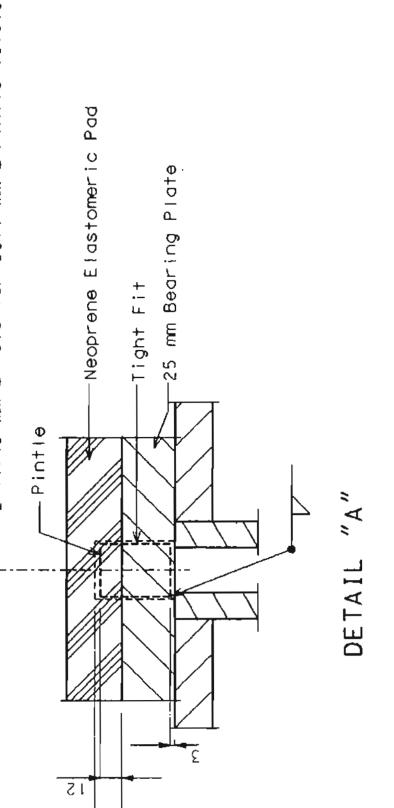
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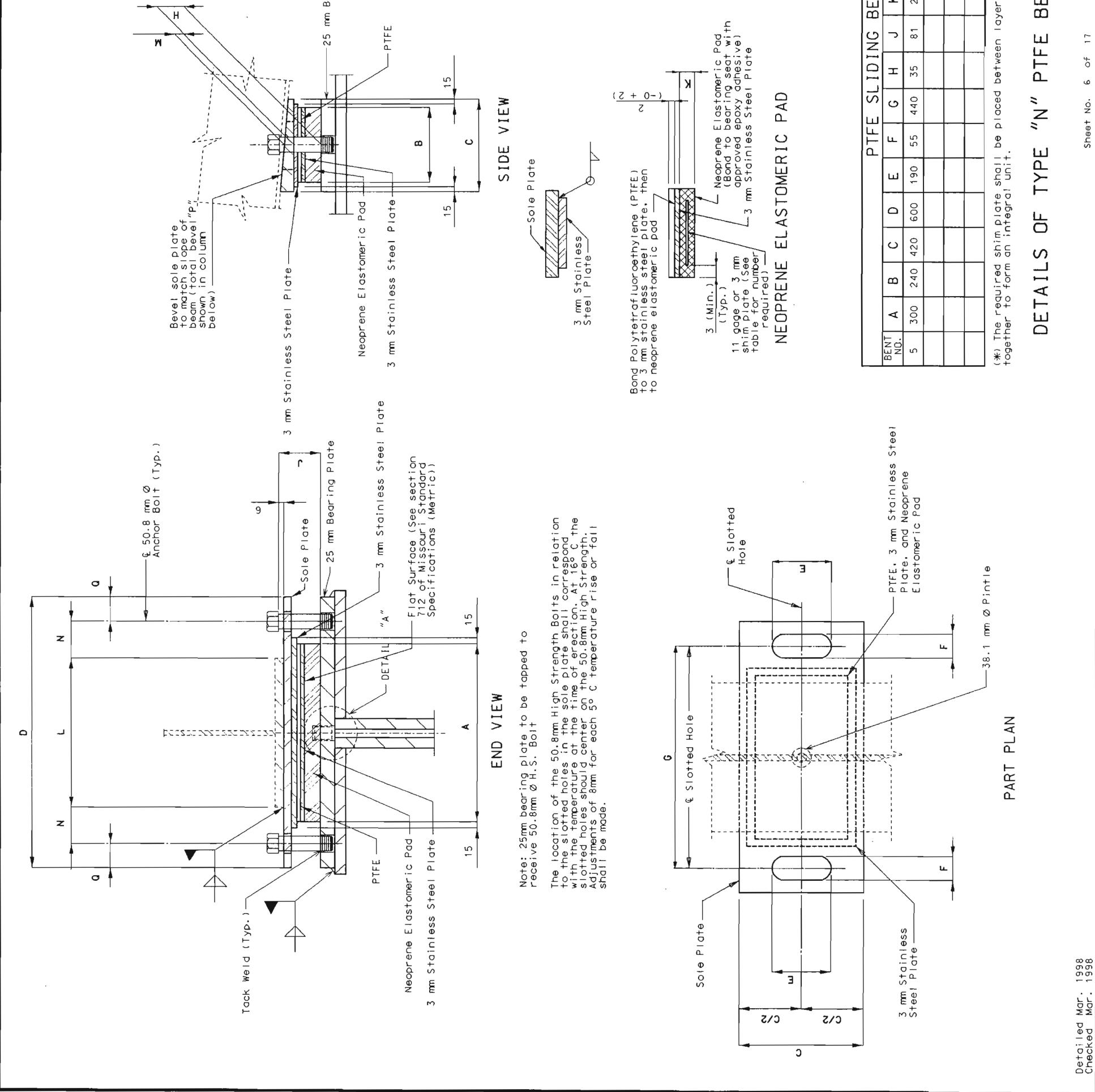
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	SHIM PLATES(*) REOUIRED	1		TOTAL BEARINGS
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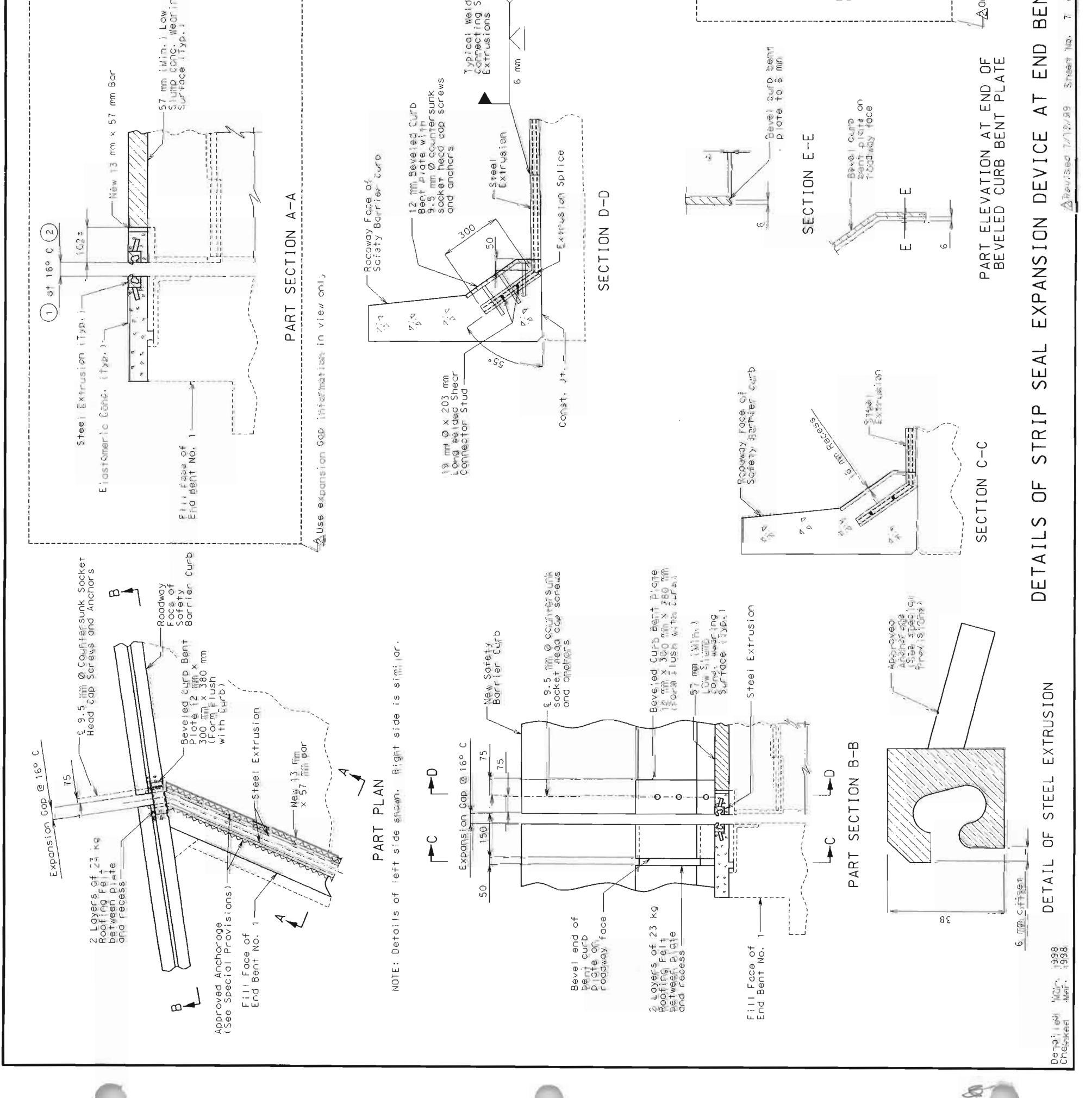




		STATE	PROJ. ND. SHEET NO. 325
	GENERAL NOTES: Anchor bolts shail be steel bolts. Actual manufacturer's (chemical and mechanic	50.8 certi	mm diameter ASTM A325M fied mili test reports all be provided.
Plate	All structural steel shail be coated with coats of inorganic zi thickness) or galvani Neoprene Elastomeric The sole plate and be the bearing and field Structural steel for Grade 250 and shall b of inorganic zinc pri thickness).	el for the and th a minimum zinc primer anized in acco ic Pads shall ic Pads shall or the sole p l be coated to primer (125 m)	tural steet for the anchor bolts coated with a minimum of two inorganic zinc primer (125 micrometers minimum) or galvanized in accordance with ASTM A153. Elastomeric Pads shall be 70 durometer. plate and bearing plate shall be furnished with ng and field welded to the stringers or girders. I steel for the sole plate shall be ASTM A709M and shall be coated with a minimum of two coats inic zinc primer (125 micrometers minimum).
	The accepted quantity of assemblies, complete-in- contract unit price for payment for the sole plo bolts shall be included assembly. See Special Pr Dutline of old work is lines. Heavy lines indic	ty of the e-in-place for Type uded in t uded in t indicate	The accepted quantity of the elastomeric bearing assemblies, complete-in-place, will be paid for at the contract unit price for Type "N" PTFE Bearings, each. Payment for the sole plate, bearing plate and anchor bolts shall be included in the cost of the bearing assembly. See Special Provisions. Dutline of old work is indicated by light dashed lines. Heavy lines indicate new work.
	£ 44.45 mm @ hole for - Pintie Neoprene E Tight Fit 25 mm Bear	38.1 mm fastomer ing Plat	Ø Pintle (C1018) e
DETAIL "A			
INGS L M N P O 304.5 40 67.75 80	NUMBER OF NUMBER SHIM PLATES(*) REOUIRED 1 6		JO JULI IS REGISTER

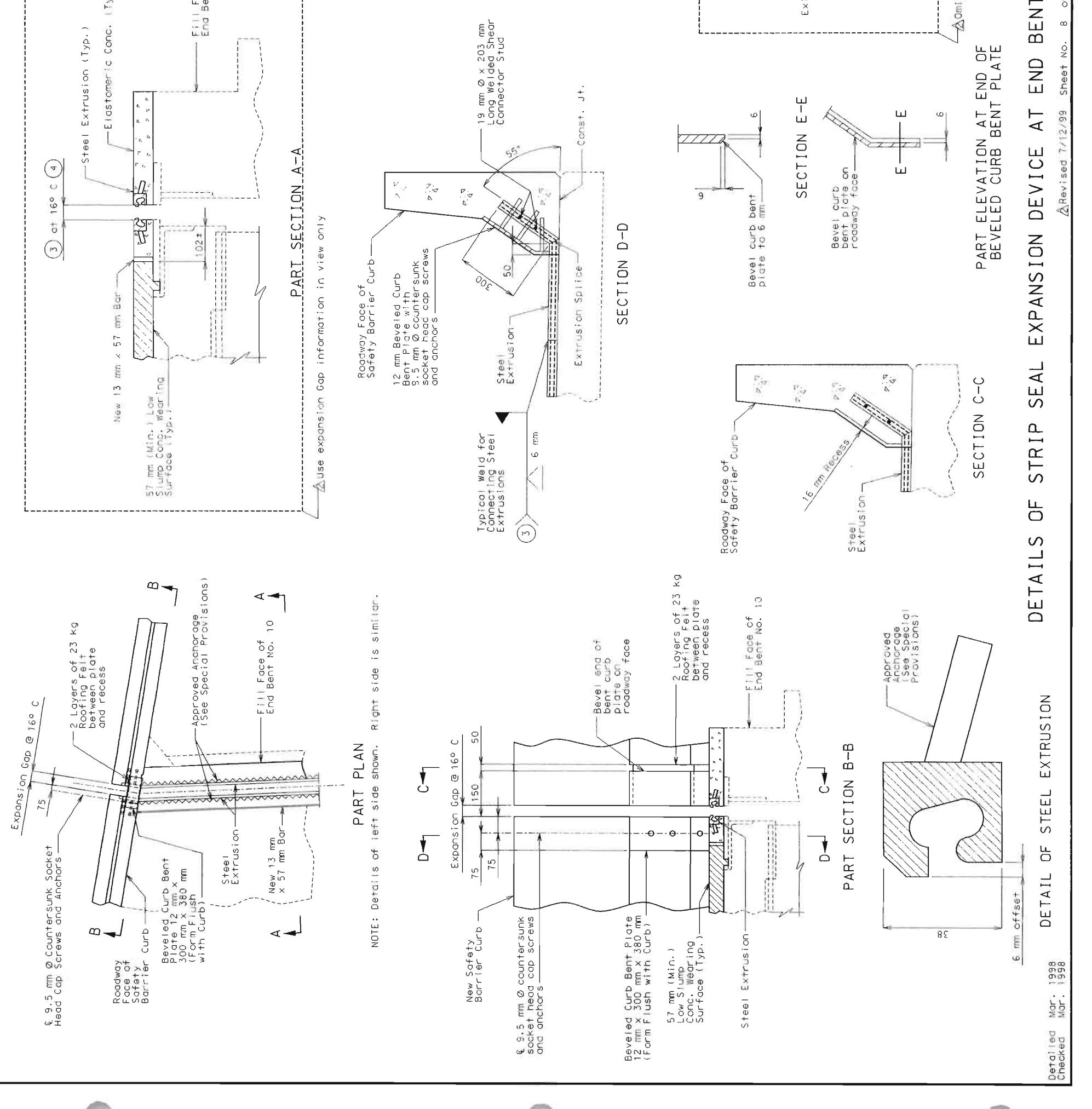


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	 ice shall be fabricated he tecomendations of the recommandations of the recommandations of the recommendations of the recommendations of the recommendations of the recommendation of the section 712 of entrice). e ASTM A709M Grade 250, be astrusions or armor shall most the contract unit present shall any coorting or armor shall most the contract unit present of the contract unit present of the section shall be increased 5 mm thickness) or and the contract unit present of the section shall be increased 5 mm to the section shall be increased 5 mm to the section of new exponsion device the section shall be increased 5 mm to the section shall be increased 5 mm to the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of t	
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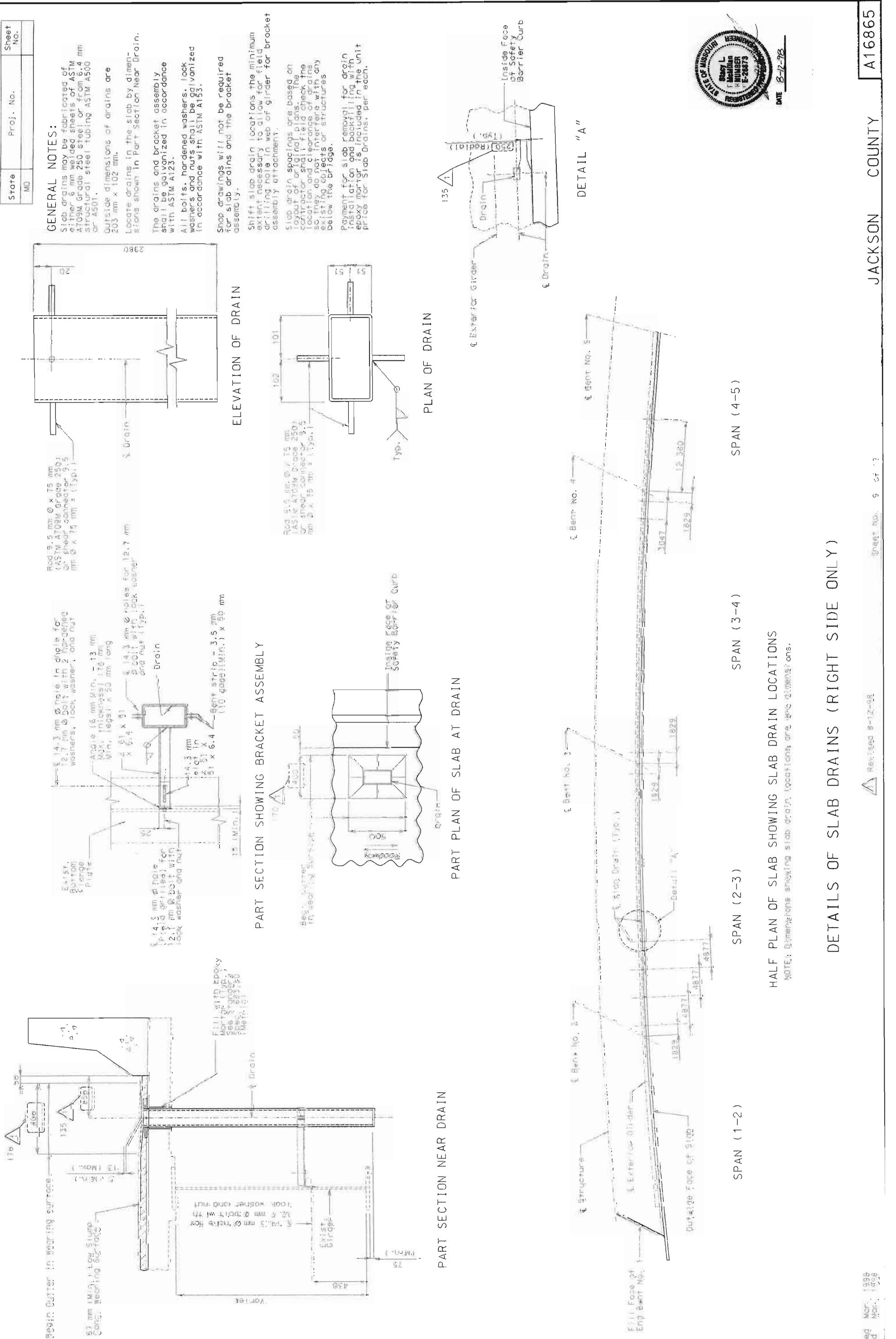


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Sto MO	e shail be fabricated a recommendations of the the Special Provisions verify all dimensions form to Section 712 of ric). ASTM A709M Grade 250, e ASTM A709M Grade 250, e all inger curb plate a the contract unit pric the contract unit pric allowice shall be inclu for Strip Seal Expansion of existing expansion device ca eal expansion device for Mc for Strip Seal Expansion attation of new expansion attation of new expansion for Strip for new expansion attation of new expansion d tailation of new expansion for Strip Provisions	<pre>1 Min. = 42 mm Max. = 74 mm shall be increased 5 mm and decreased 5 mm for allation.</pre>	IP SEAL GLAND NT RATING 102	Exist. Anchor St Frield Cut if Ne Ion THRU	
	NOTE: The expansion device with t and as set forth The contractor m The contractor m All welds shall b Specifications the extrusions shall b Anchors for the studs (C1010 thro studs (C1010 thro strip Seal Expansion contract unit pr for new strip the existing. Payment of remove preparation for in the Expansion Joint.	Note: Dimension 2 fall in temperature temperature at inst 3 Extrus	MDVEMEI	e Exist. n x 41 mm Bor 	
	P.)			Remove 13 mm ist. Steel	NON T

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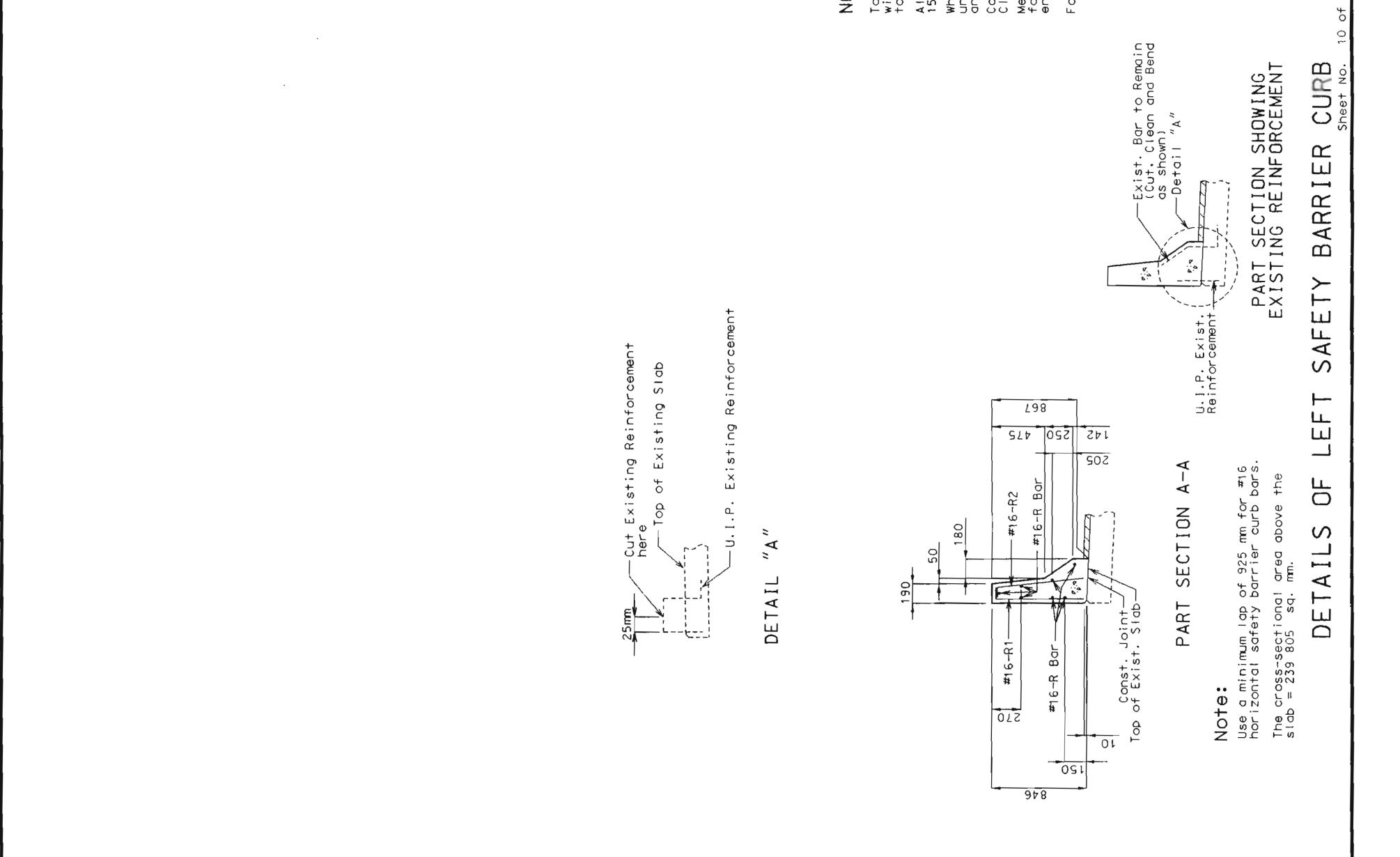


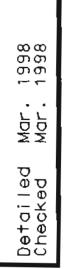
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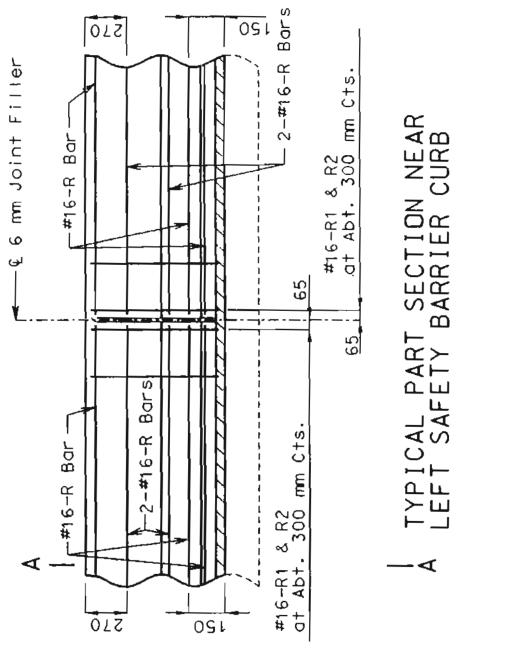
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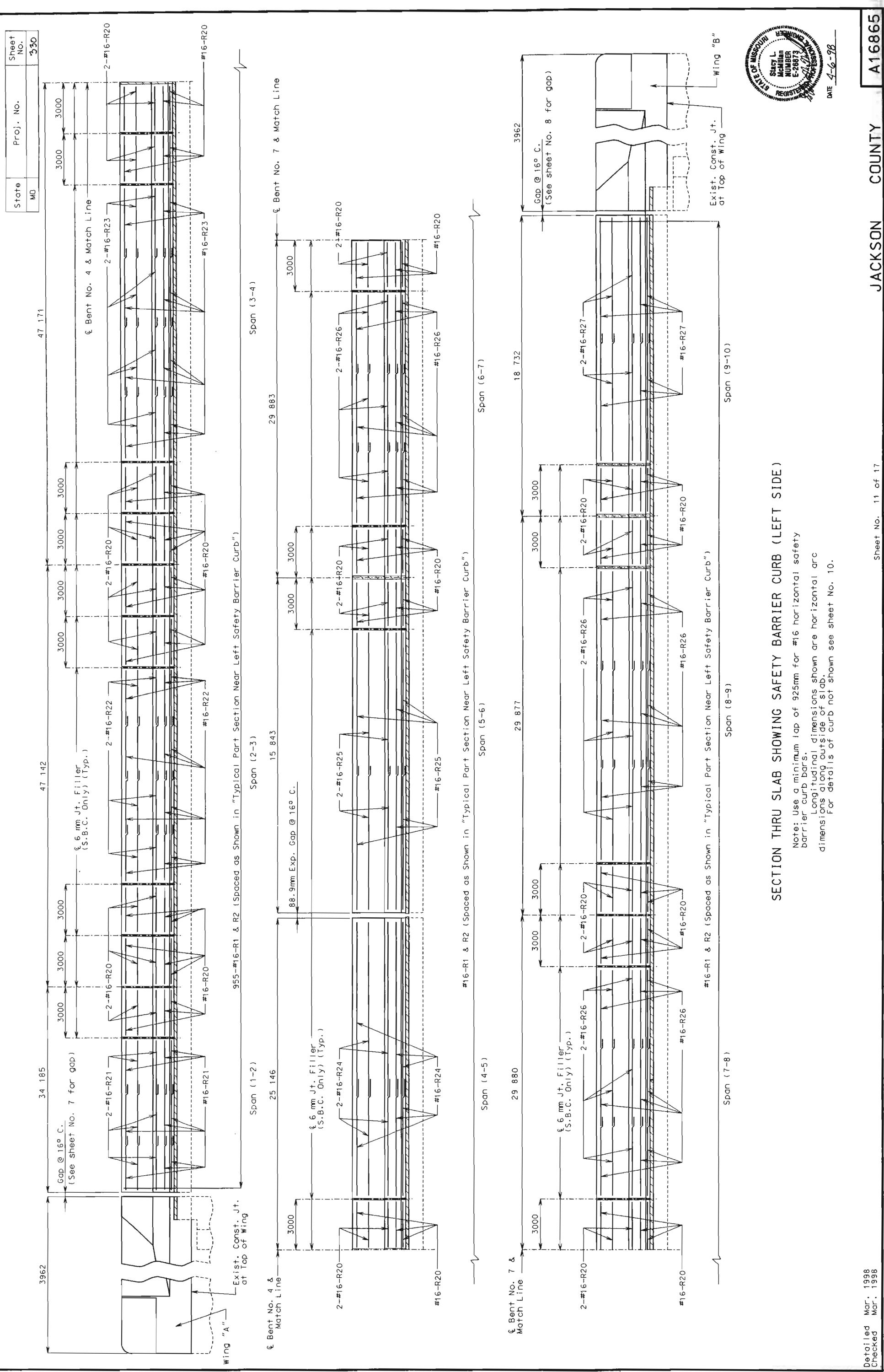
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	to gradë ts) normal e either a e either a ted. contract reinforcement reinforcement st half meter o of slab from e sheet No. 3.	OTE: Do of safety barrier curb shall be built parallel to ith safety barrier curb shall be built parallel to p of safety barrier curb shall be built parallel to p of safety barrier curb shall have ei II exposed edges of safety barrier curb shall have ei m radius or a 10 mm bevel. unless otherwise noted. The safety barrier curb is bid per meter, the con nit price shall include the cost of all concrete. rei nd resin anchor systems, complete-in-place. Dorcete in the safety barrier curb shall be loss B1 with f'c=28MPa easurement of safety barrier curb is to the nearest h of wing to end of wing. The details of expansion device movement gauge, see sh
		FILLED JOINT DETAIL
		Joint Filler (Std.
No. Sheet No. 329	State Proj. MD	











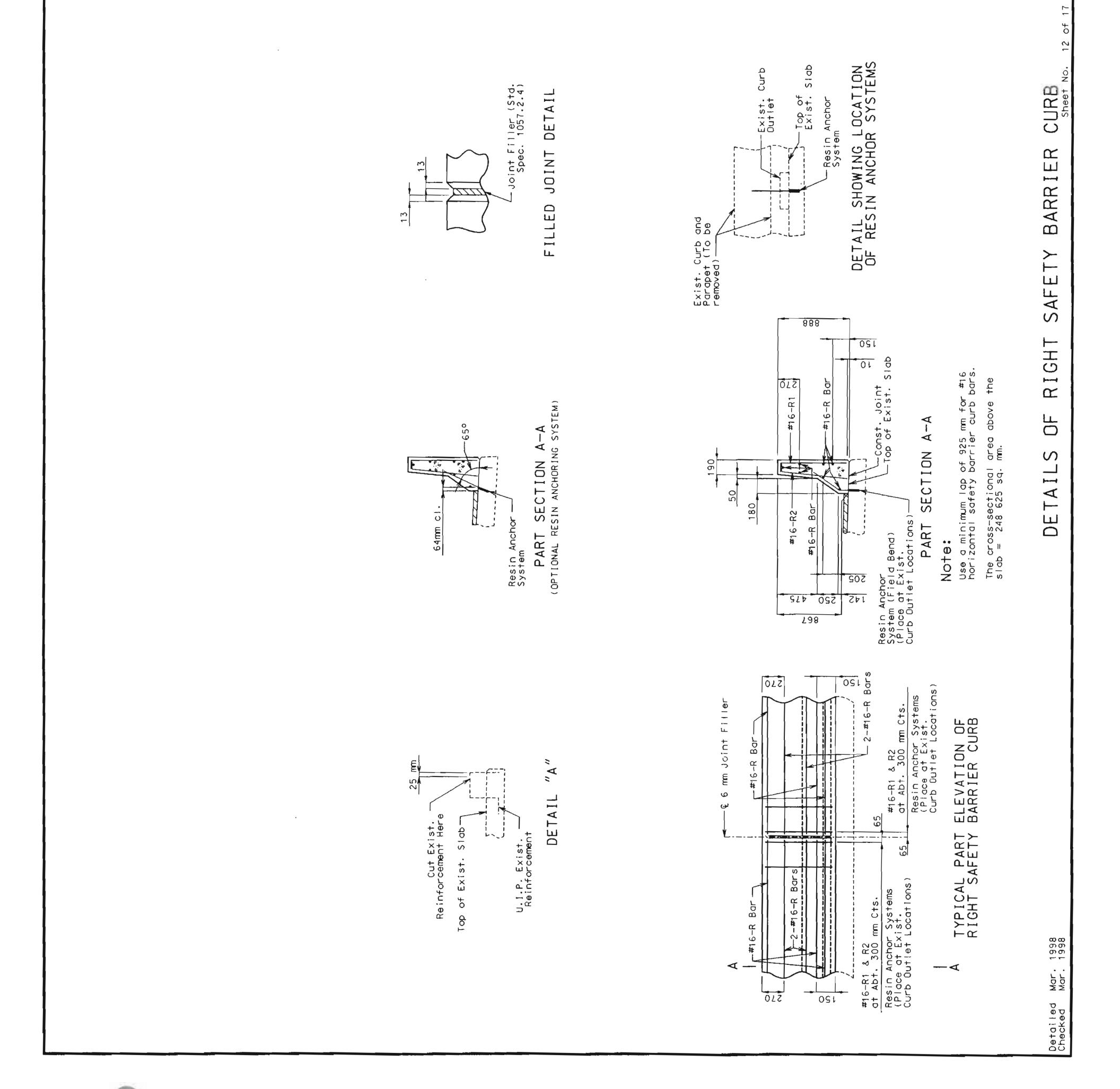
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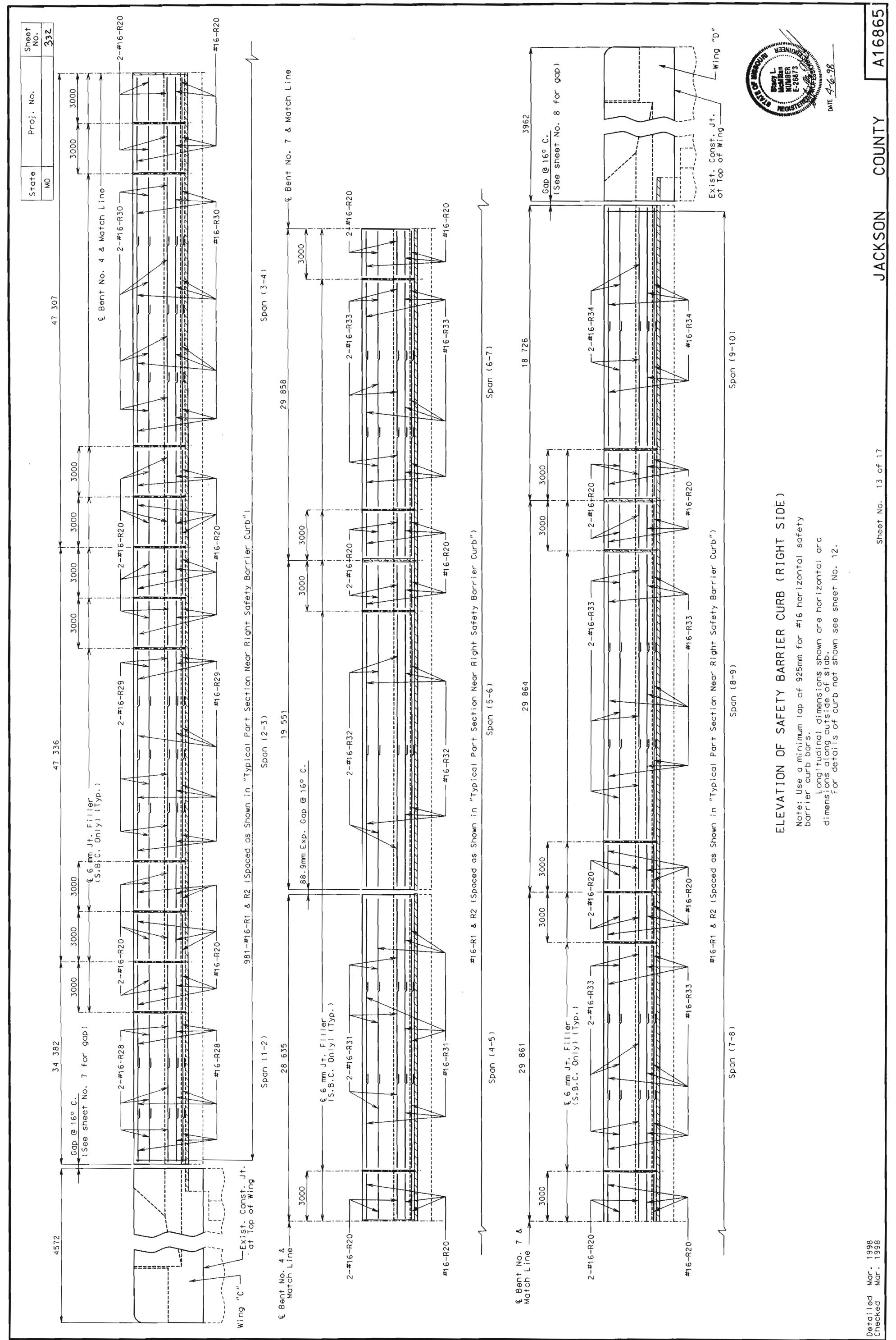


A16866, Sht. 118

. No. Sheet No. 331	ystems anchor cturer's special special nd for to grade to stud.	A16865
State Proj MO	the resin anchor system ons. These resin ons. These resin ons. These resin ing to the manufacting the anchor system systems shall hav of 68.9 kN in con ovisions. There shall hav be built parallel except at end ben er curb shall hav of all concrete. The shall be of all concrete. The is to the neare of the outside to the is to the neare of the outside to the is to the neare of the outside to ong the outside to	Detail "A" Detail "A" I.P. Exist inforcement inforcement CEMENT ACKSON COUNTY
	NOTE: The contractor shall use one of the contractor shall use one of the isstellad in the job special provisions. Systems shall be installed accord special provisions. Cost of furnishing and installing complete in place shall be includ strength with $f'c = 28$ MPa. See special provisions with $f'c = 28$ MPa. See special provisions with $f'c = 28$ MPa. See special provisions the substituted for the long shall be substituted for the long shall be substituted for the long shall be substituted for the cord of an epoxy coated #16 Grade 420 rejused to grade. All exposed edges of safety barrier curb joints (class B1 with $f'c=8$ MPa. See special proversion of the long shall include the cost and resin anchor systems complete concrete in the safety barrier curb joints (class B1 with $f'c=8$ MPa. For details of each structure, measured allowing to end of wing to end to f wing to end of wing to end of wing to end to f wing to end of wing to end of wing to end to f wing to end of wing to end to f wing to end to f wing.	Exist. Bors to Remain (Cut: Clean and Bend as shown) Detail " Reinforceme PART SECTION SHOWING EXISTING REINFORCEMENT



A16866, Sht. 119



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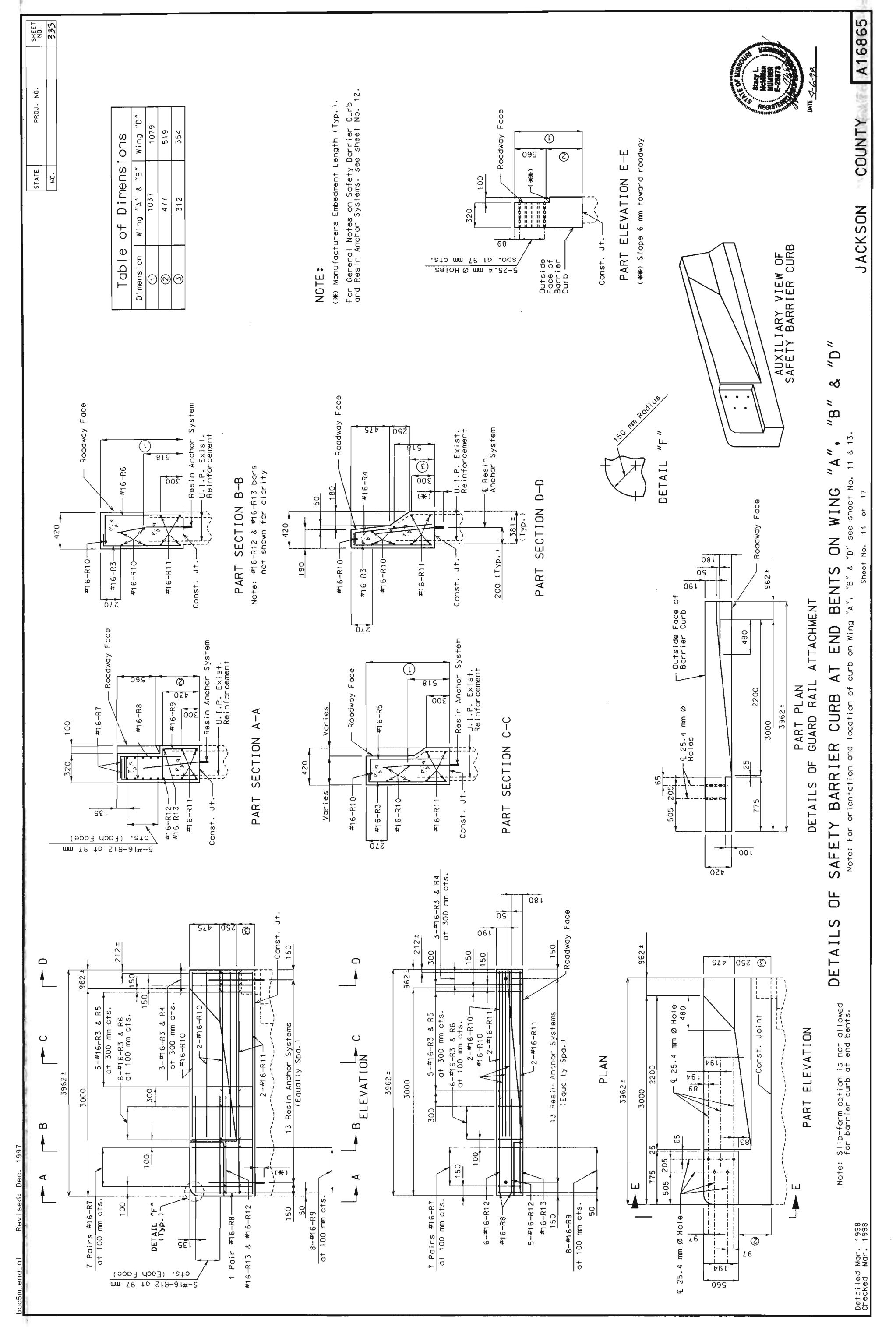


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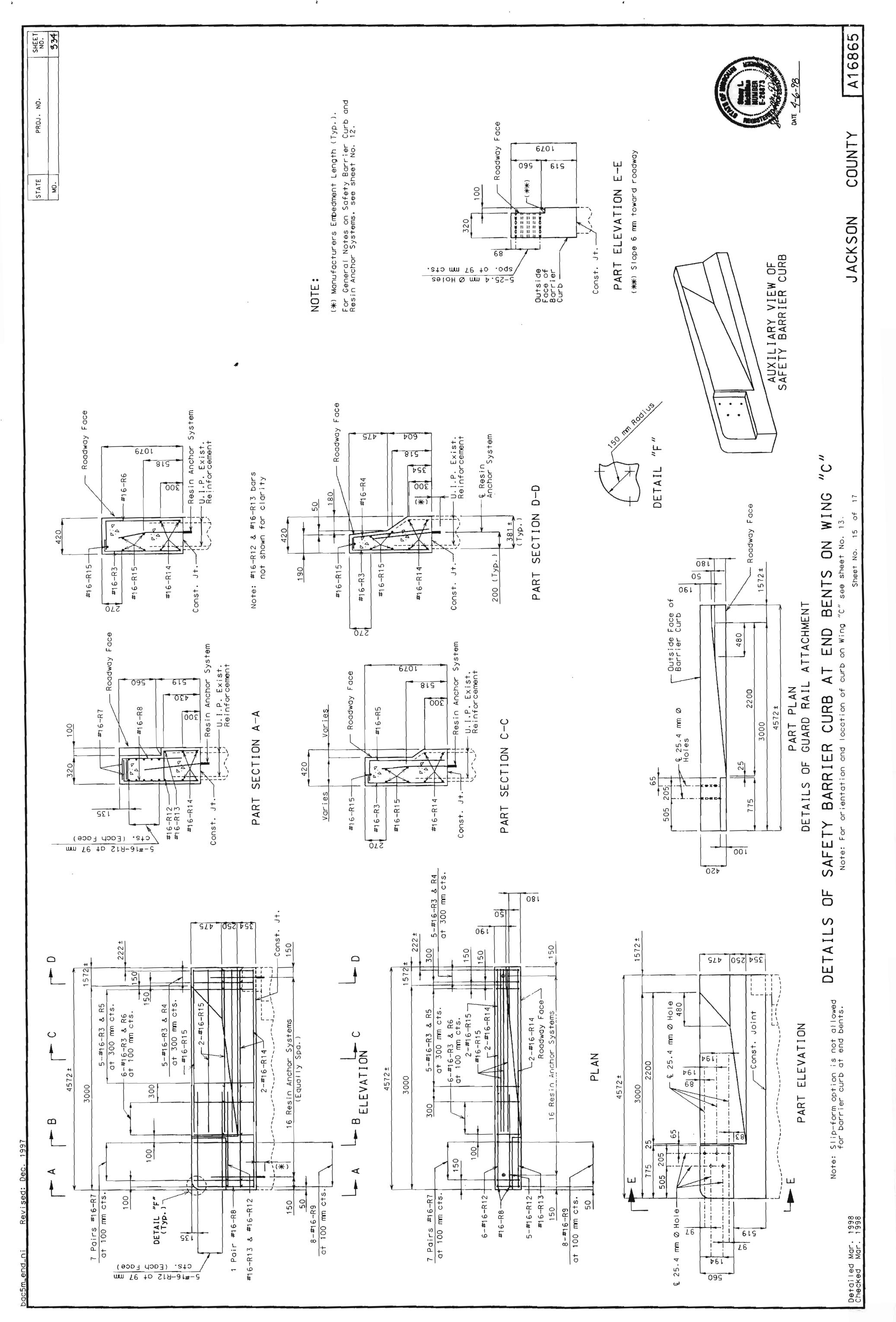






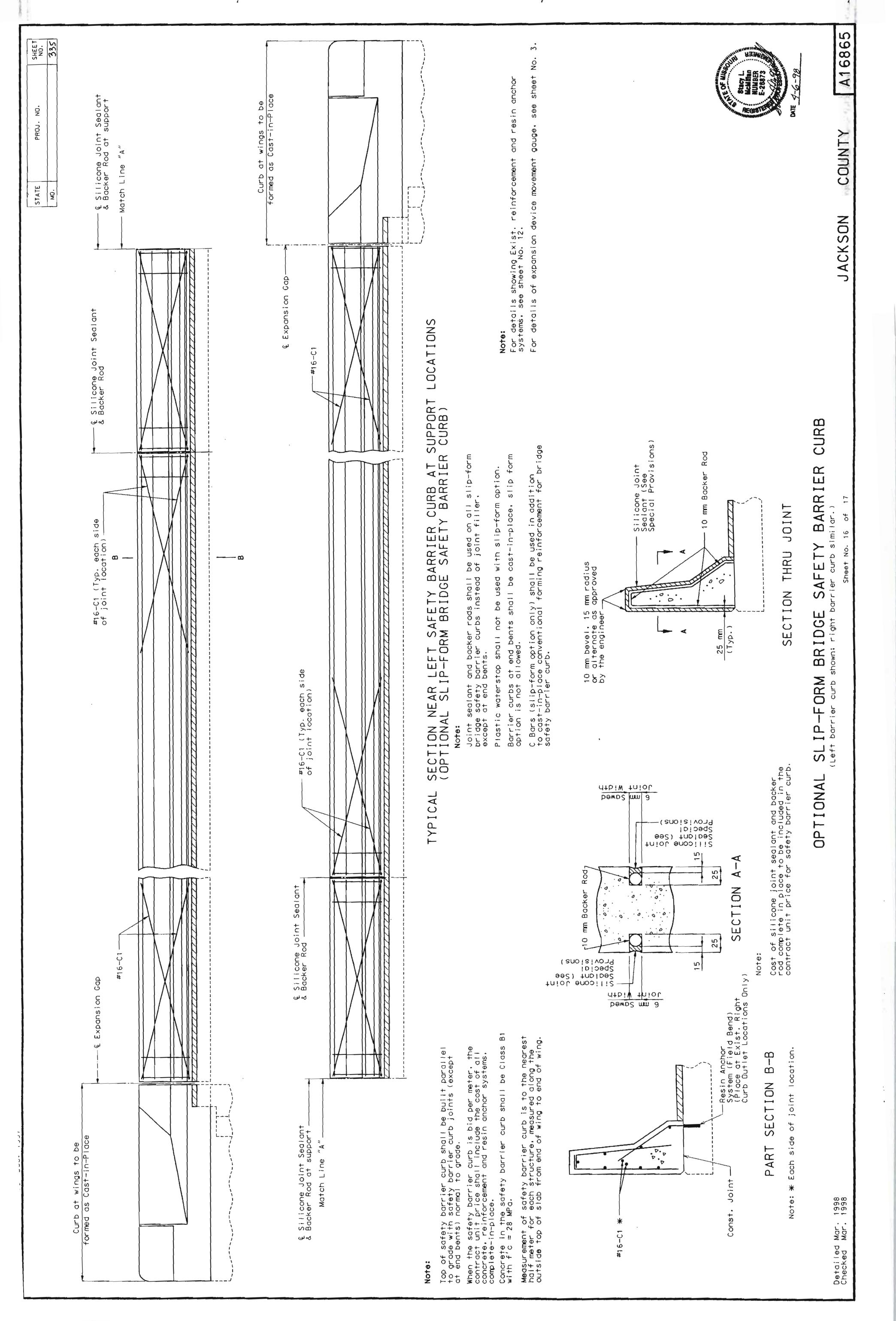


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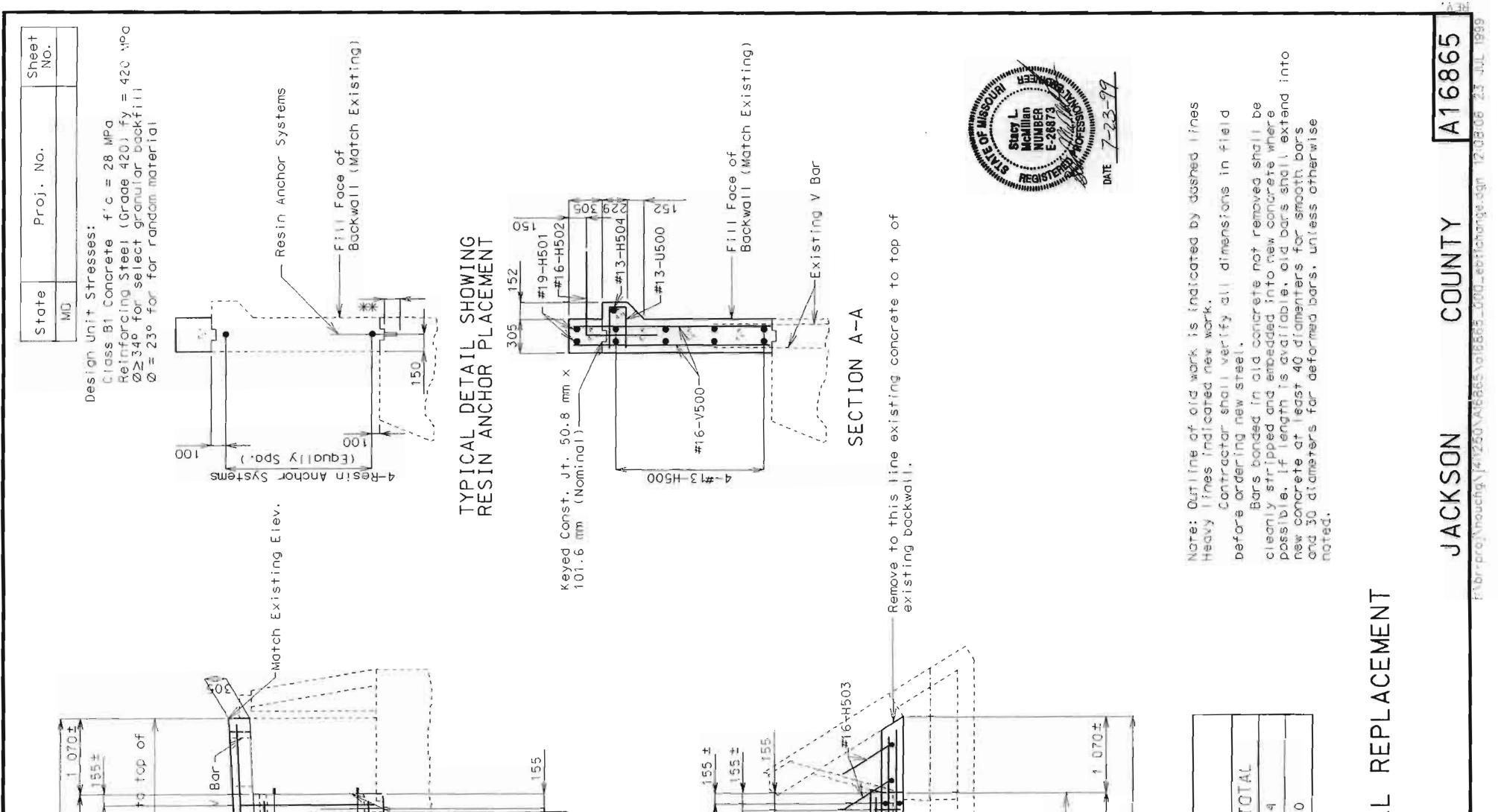
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Remove to this line existing concrete existing backwall

55-#16-V500 @ 300 mm crs. (Each Face)

18 015± 16 510±

A16866, Sht. 123



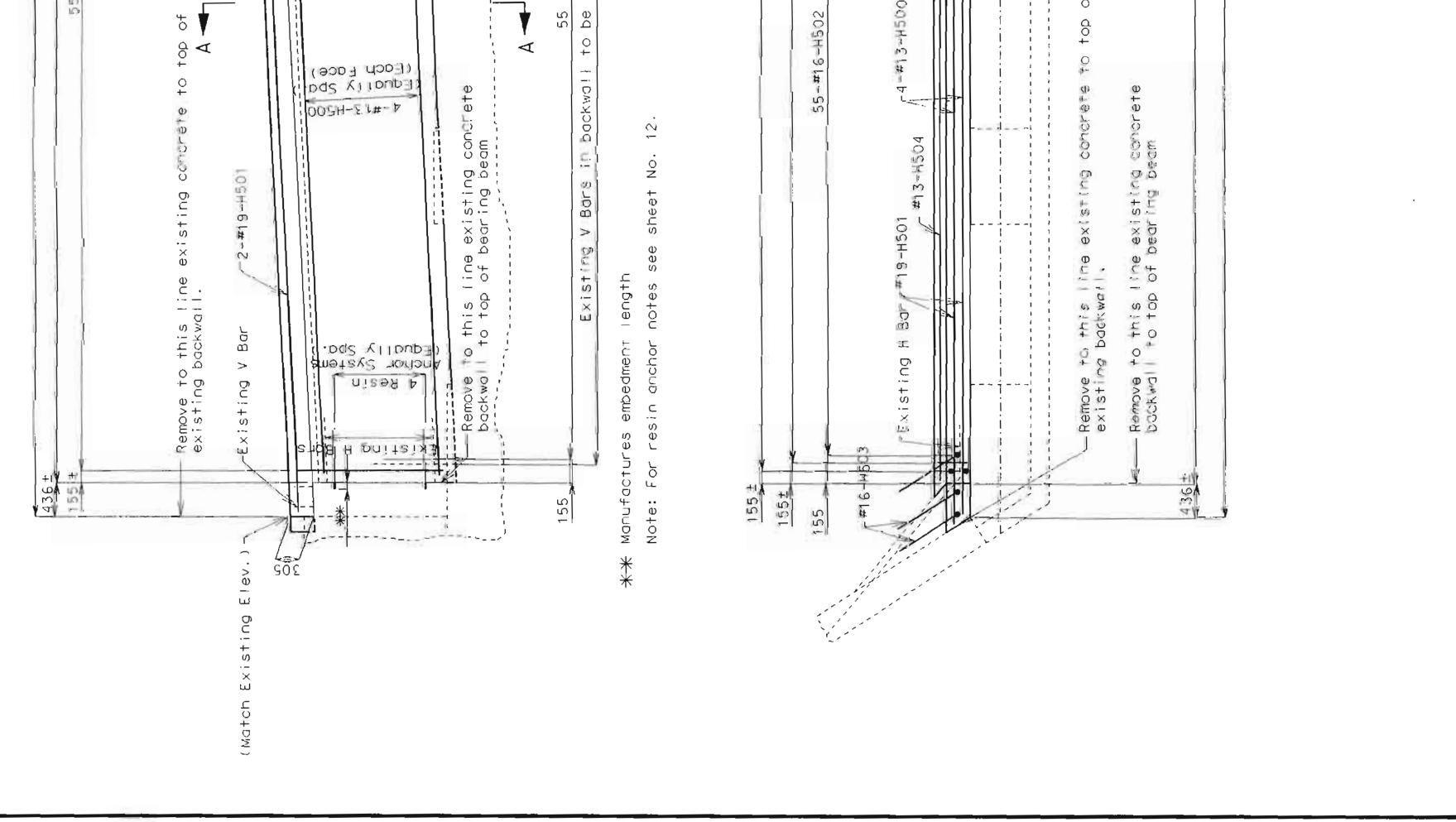
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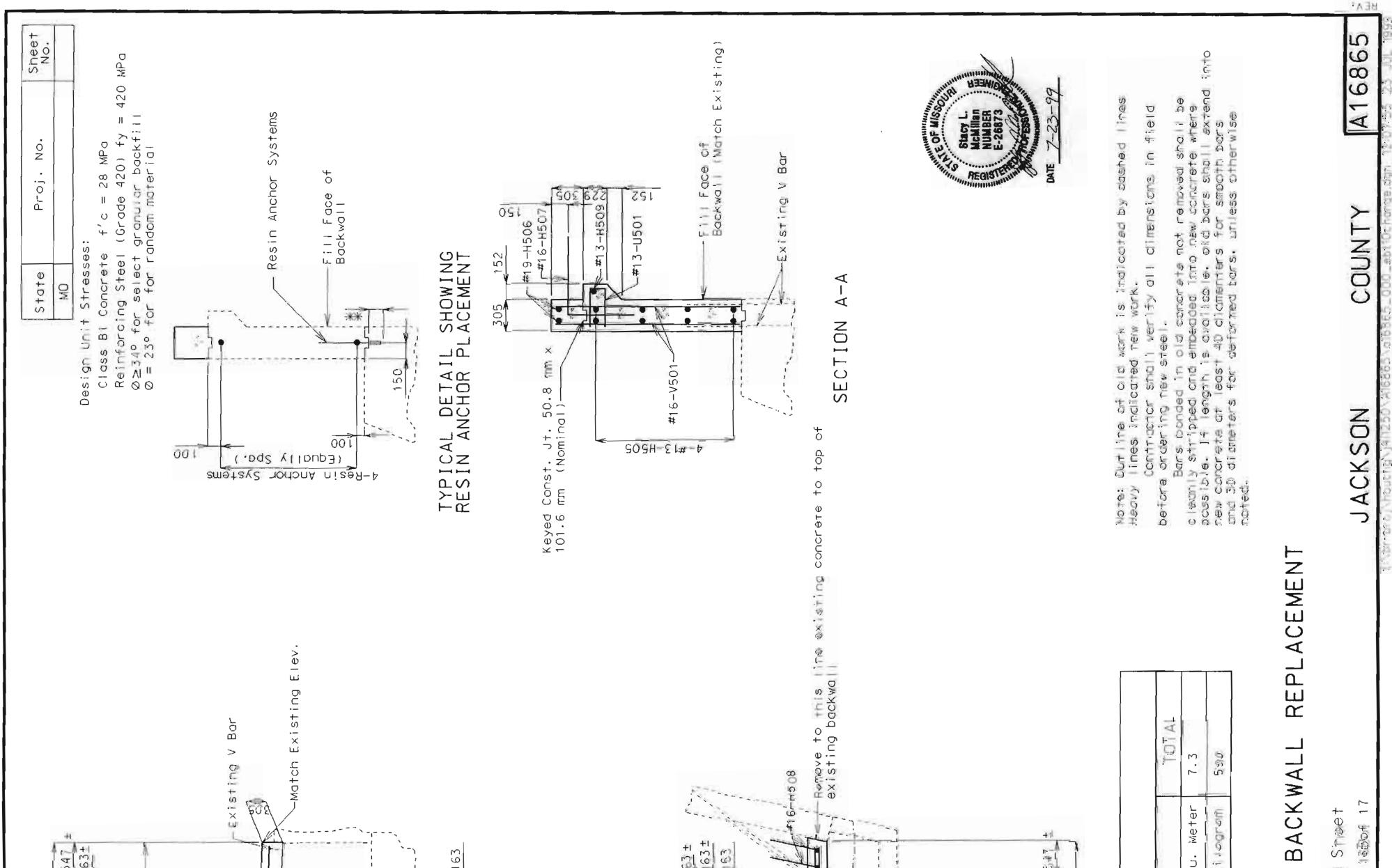
OF END BENT NO. 1 ON NORTHBOUND LANE SHOWING BACKWALL

A M X Keyed Const. Jt. 50.8 mm x	Exis	ting V
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po =]) onb =]) # - 7	to this line existing concr	ш 1/г е+е
	to top of bearing beam	
55 Resin Ancror Systems @ abt. 300 mm cts.		-
in backwail to be cleanly stripped & extended a minimum of 660 mm ELEVATION OF BACKWALL	n into new concrete	}
No. 12.		
5-#16-v500 @		
55-#13-US00 @ 300 mm cts.		1
55-#16-H502 @ abt. 300 mm cts. (Placed Parallel to Roadway		
-H504 / 4-#13-H500 / Backwall (Match Existing) 20	-#13-H500 7 #13-H504 Existing H Bar	 /
502		
g concrete to top of		
	Remove to this line existing concrete	۵ ۵
16 5 0 ±		Î
18 0151		
PLAN OF BACKWALL		
ESTI	MATED QUANTITIES	
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ss B1. Concrete-Metric		8.4
Reinforcing Steel (Epoxy Coated)-	-Metric Kilogram	670





A16866, Sht. 124



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	Remove to this line existing concrete to existing backwall		се (• рос (• рос) (• рос) (• рос	Remove to this line existing	min cts.		
15 644± 14 425± 48-#16-V501 @ 300 mm cts. LEQ.	to of exis	r Keyed Const. Jt. 50.8 mm x 101.6 mm (Nominal)		ng concrete beam	8 Resin Anchor systems @ gbt. 30g to be cleanly stripped & extended	ELEVATION OF B	

672± 162±

a abt. 300 mm Cts. (Picced Parailel to Roadway)	Fill Foca of Backwart (Match Existing) S =#13-H509 - #13-H509 - 4-#13-H505 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	o top of	Remove to this line existing concrete Dolokwoll to top of bearing bean	PLAN OF BACKWALL	
	Fill Face of Backwarl Wa #13-H50	concrete to top of	්රගත් සිද්ද දේවාන	PLAN	

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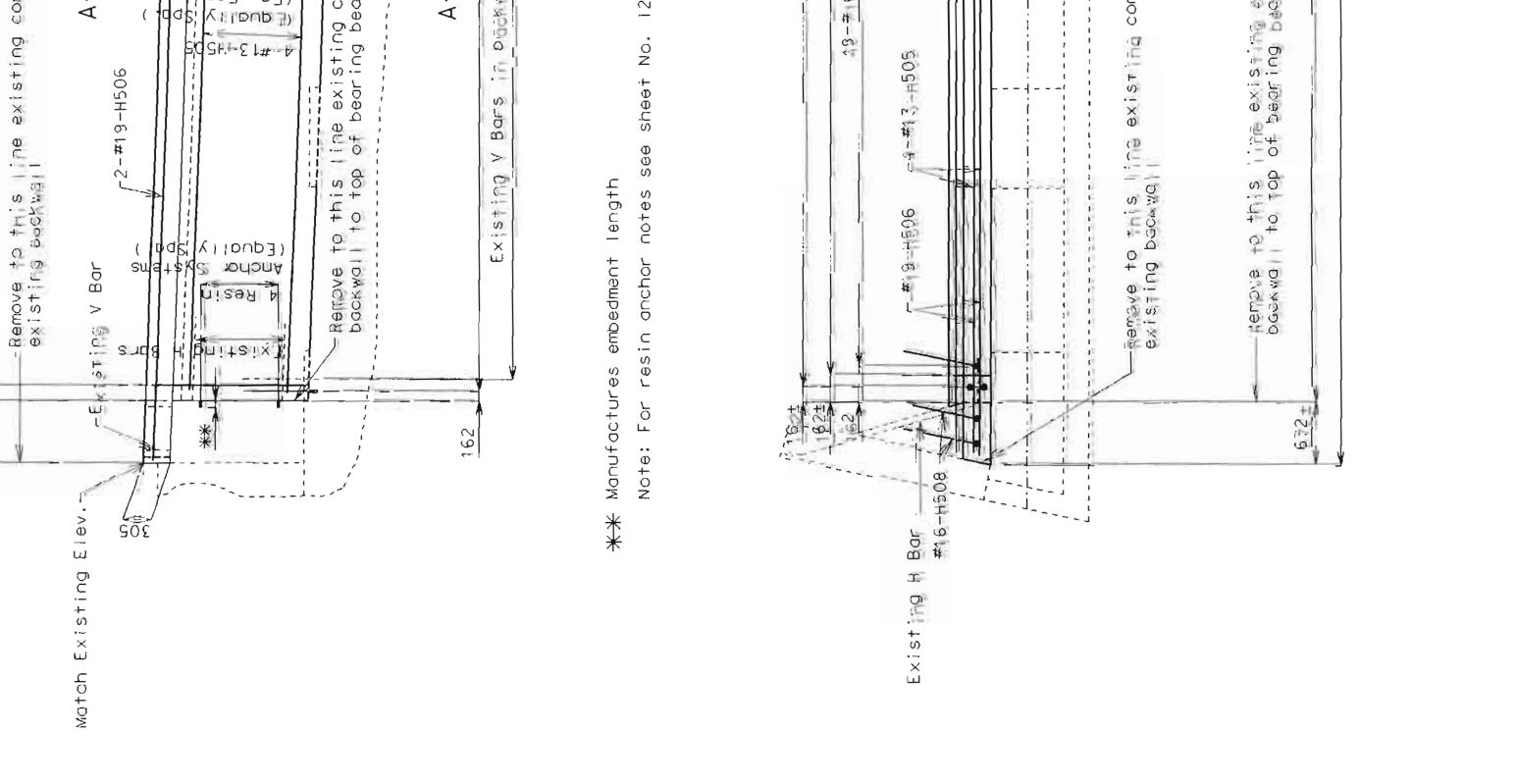
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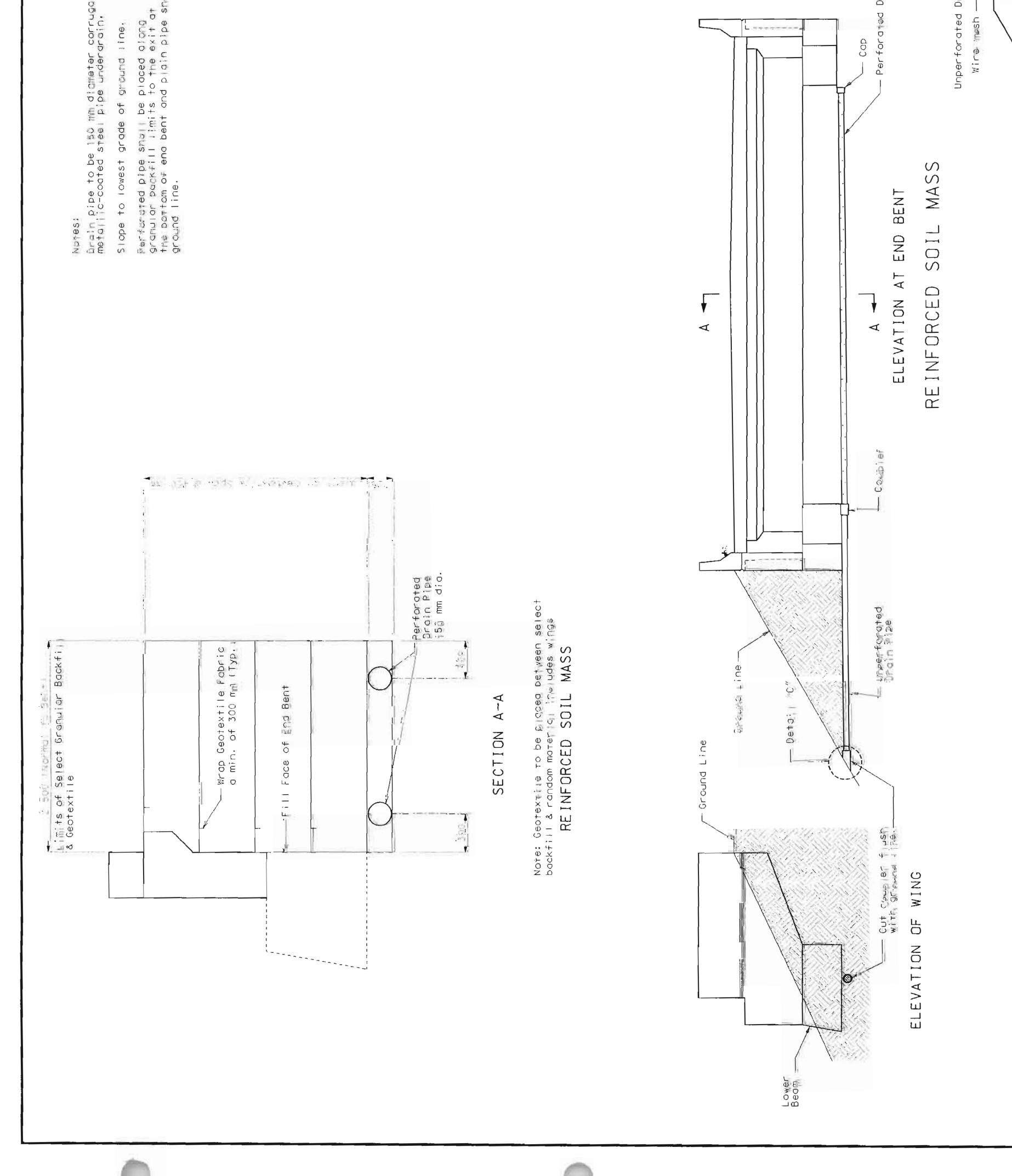
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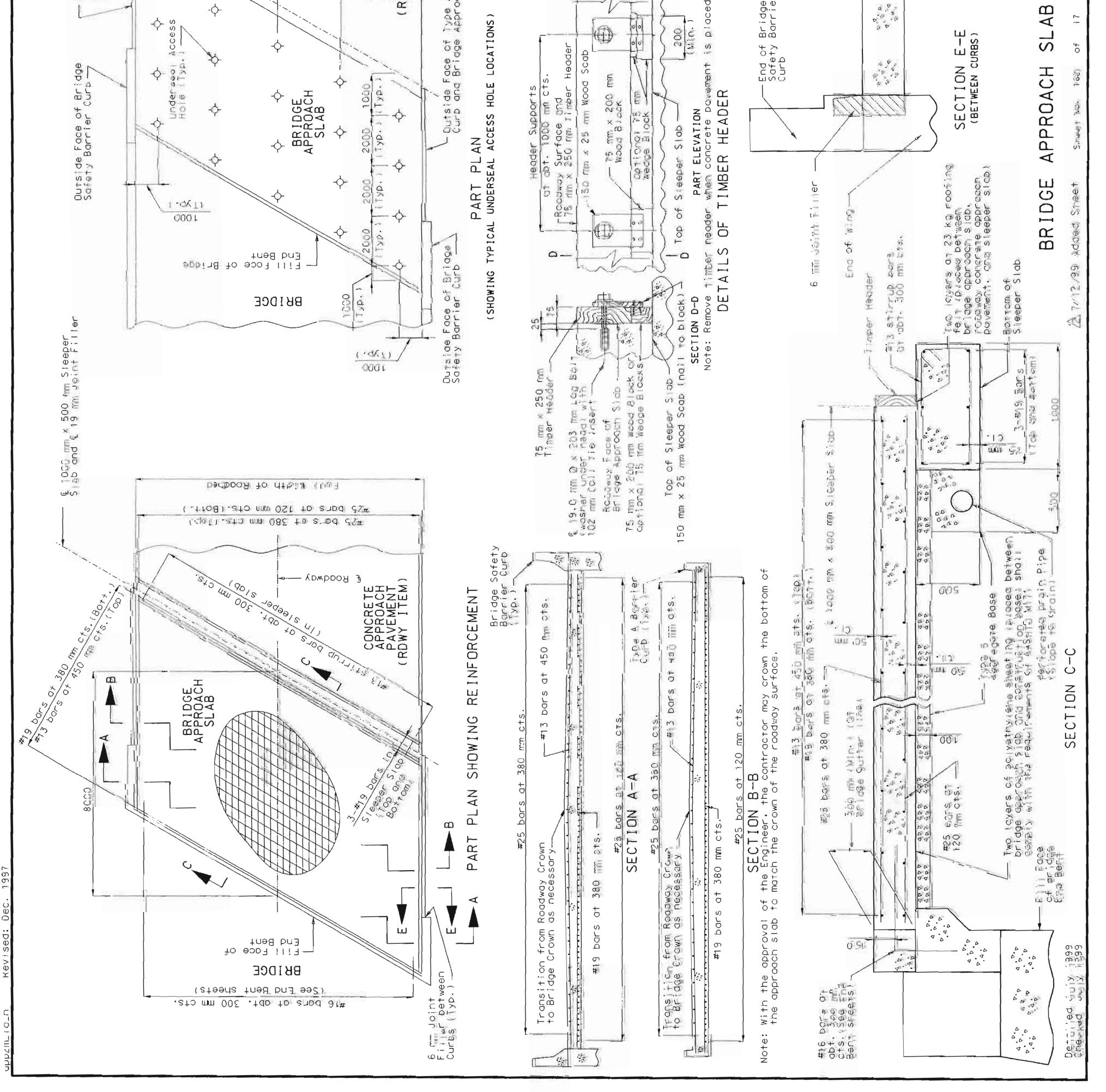
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A 7/12/93 Added Sheet

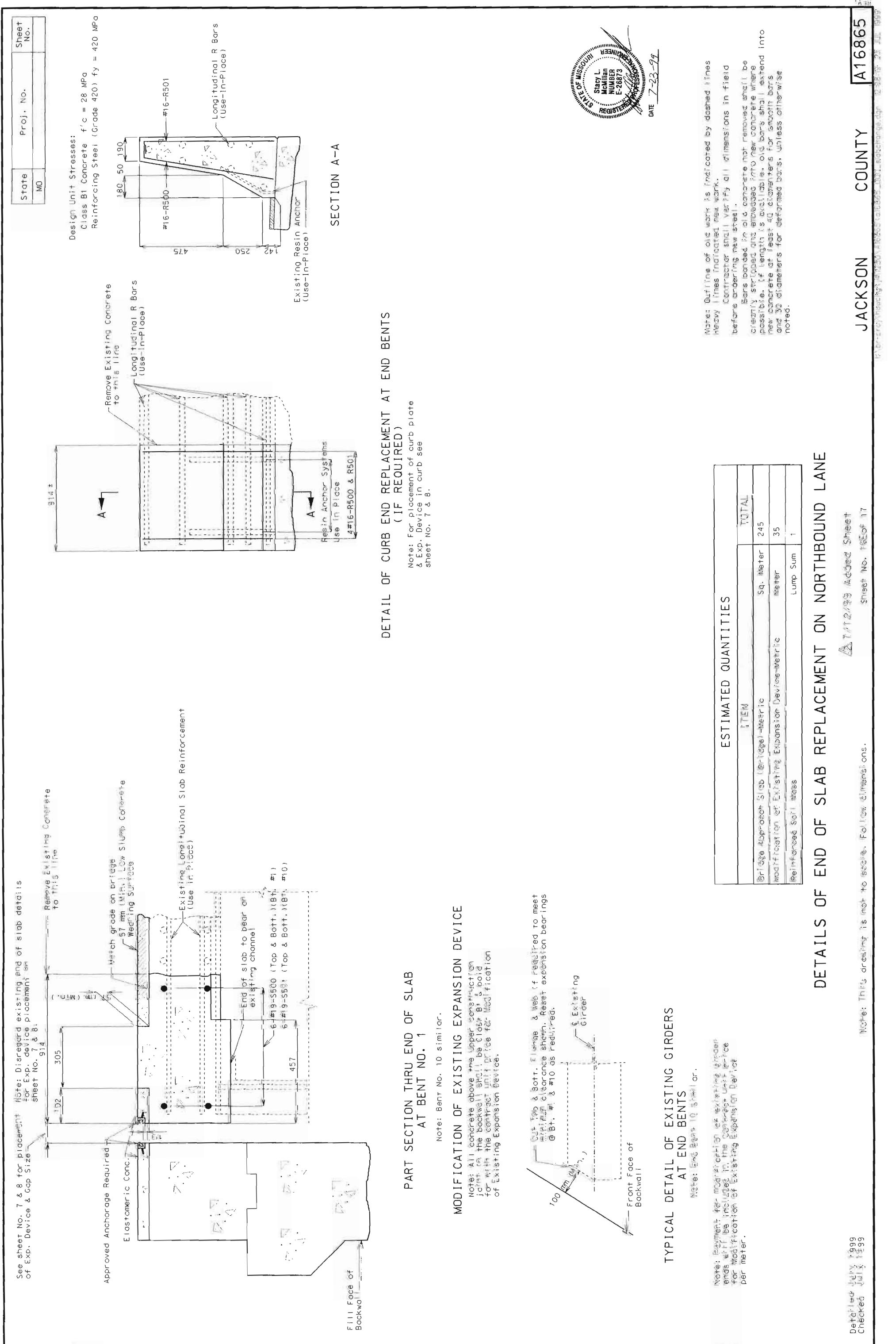


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	GENERAL BROJ. NO. SHEET NO. NO. NO. SHEET NO.
Dutside Face of Type A Barrier Curb and Bridge Abbrach Slab	0 0
\$	joint filler shall meet the requirements ion 1057.2.5. of Missouri Standard Specif ricl. except as noted. reinforcing steel in the bridge approach
	and the sleeper slab shall be epoxy c a 420 with Fy = 420 MPa. Tum clearance to reinforcing steel sha n. un ess otherwise shown.
Eleper Slab	forcing steel in the the sleeper slab sh sverse reinforcing s us by lap splicing t nd 1055 mm respectiv
(1Åb·) (MOX·) S200	anical bar splices will be lop at least 125 percent o ngth of the reinforcing ba contractor shall furnish t facturer's certification t et and is required to follo mmendation for installatio
CONCRETE	<pre>bl bar splices shell be epoxy colle with Section 710 of the Misso tions(Metric).</pre>
PAVEMENT RDWY ITEM)	bor splice, the minimum lap bor splice, the minimum lap for transverse approach slab bends shall be in accordance Standard Practice for Detaili
A Barrier Dach Siab	rete Structures. Stirrup and Tie Dimensions. contractor shall pour and satisfactorily sh the bridge slab before pouring the bridge bach slabs.
	tudinol construction joint leeper slab shall be diign ruction joints in bridge s
SLE SLE	Payment for furnishing all materials. Tabor and excavation necessory to construct the approach slab. including the timber header. sleeper slab. underdrain. Type 5 aggregate base and all other appurtenances and incidental work as shown on this sheet. complete in place. shall be considered as completely covered under the contract unit price for Bridge Approach Slab (Bridge). per square meter.
#13 STIRRUP BAR (ACTUAL LENGTH	r Concrete Approach Pavement details. see ans.
	issouri Standard Pians Drawing M609.00 fo De A Barrier Curb. a contractor's option. Grade 300 reinford
	a substituted for the Grade 420 #16 dowel bar sting the priage approach slab to the bridge ant. No additional payment will be mode for substitution.
20 2 1 2	300 reinforcement is substituted for th file dowel bars connecting the bridge app bridge abutment. the reinforcement may 90 degrees with a 50 mm minimum radius it to allow compaction of the backfill
HOOK DIMENSIONS HOOK DIMENSIONS BENDING DIAGRAM	be repaired according to Section 710.3.3 c uri Standard Specifications(Metric).
Note: Nominal lengths are based on cut to out dimensions shown in bending dicaram and	Drain pipe may be either 150 mm diameter corrugated metallic-coated steel pipe underdrain. 100 mm diameter corrugated polyviny! chloride (PWC) arain pipe. or 100 mm diameter corrugated polyethylene (PE) drain pipe.
fabricators was inscreation fum.	Joint Sealing Woterial
Finish such side of Joint with 6 rm rodius ecoing tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for tool for for tool for for tool for for tool for for for tool for for for for for for for for for for	Lon Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden Approden A
CONST. JOINT DETA	IL TYPICAL UNDERSEAL ACCESS HOLE DETAIL
	JACKSON COUNTY A16865







Meter 35
Lump Sum 1
Lump

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Pro: No				Shape 8			C C					Shape 14	6 13		n / - Shape 17		C F B	pe 15 Shape 16 Shape 20	K D Spot weid	2 ×					₩		\mathbb{W}		23 Shape 24 Shape 22 F				25 Shape 26 Shape 27			28 Shope 29 Shope 31			Shape 30	K K			H H H H H H H H H H H H H H H H H H H		Shape 33 E-26873	Some and the	DATE 4-6-98		GRAMS	
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OF RFINFORCING STFFI	Dimensions	н П С																																								actuded in the bar bill for testing.		180 degree to be bent s.		e quantities ncrements between dimensions shown on this line	ength o out dimensions shown in bending diagrams and earest 5 mml.	line bor to the nearest 5 mm.	required for each column spiral. Spacers are to be placed ass of column spirals do not include splices or spacers.	420 MPG
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	Proj. No.			Shape 10		Shape 13	Shape	B	Shape 21	Shape 24	H	Shape 26	Shape 29		H H A C S S S S S S S S S S S S S S S S S S
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