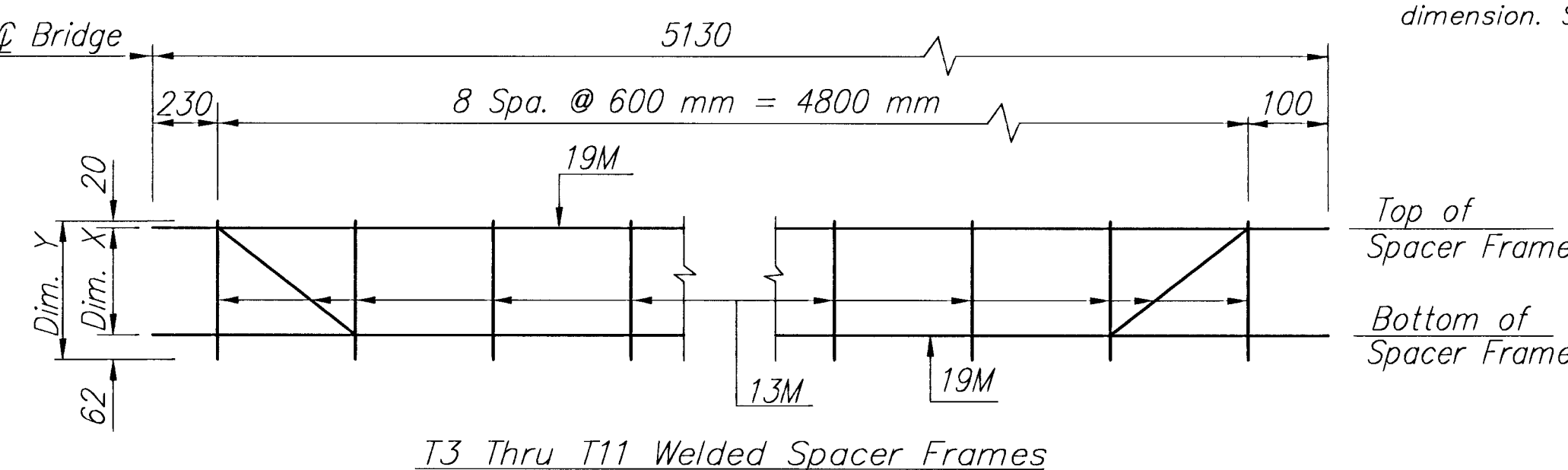
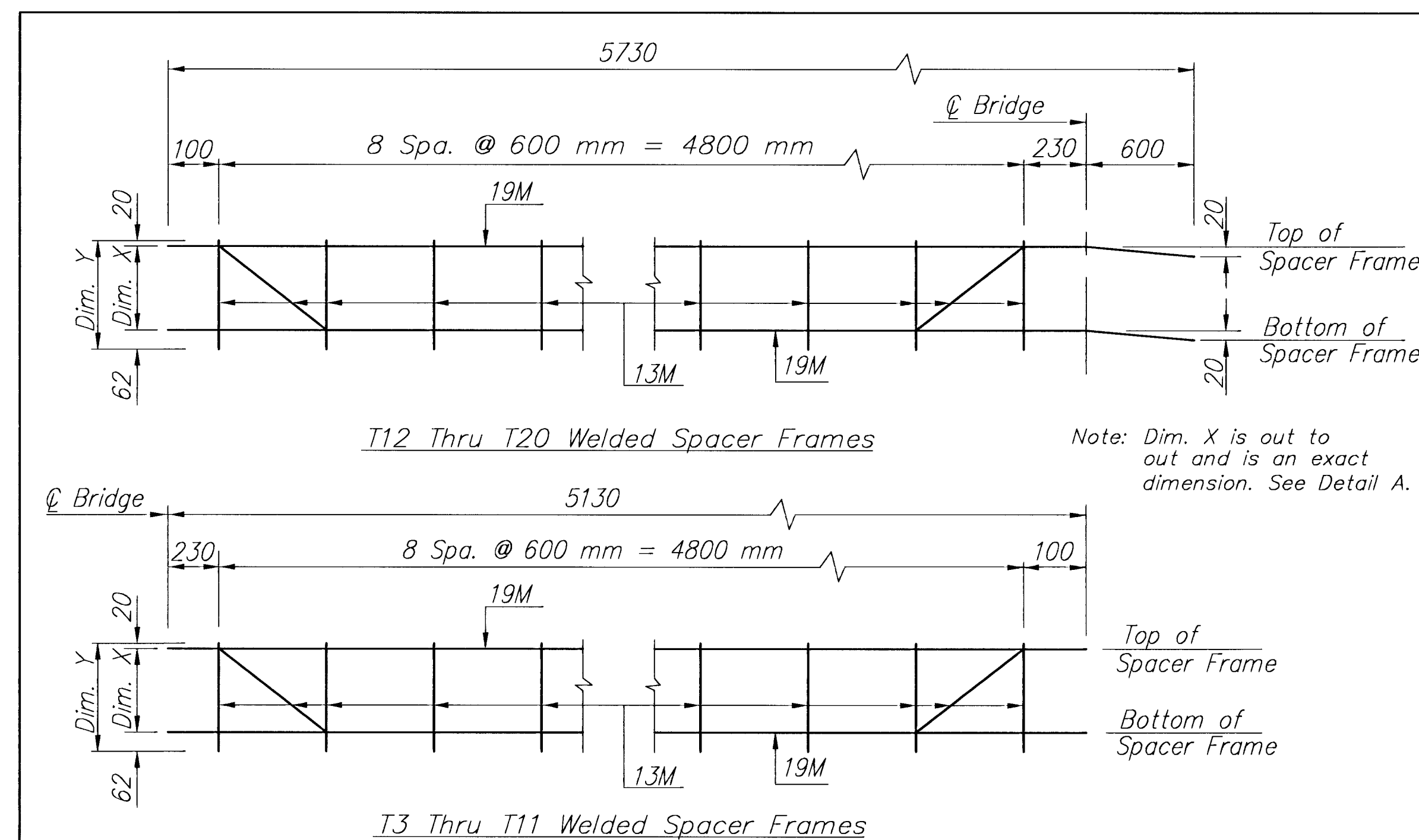
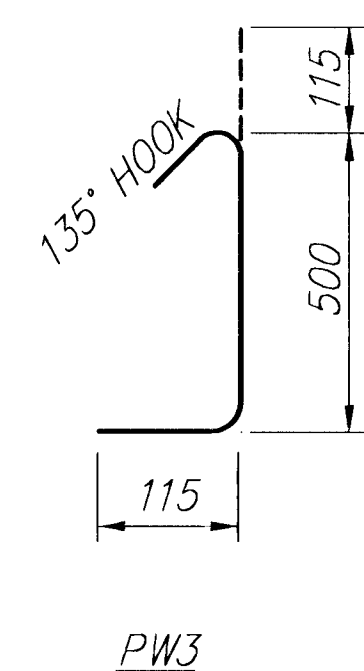
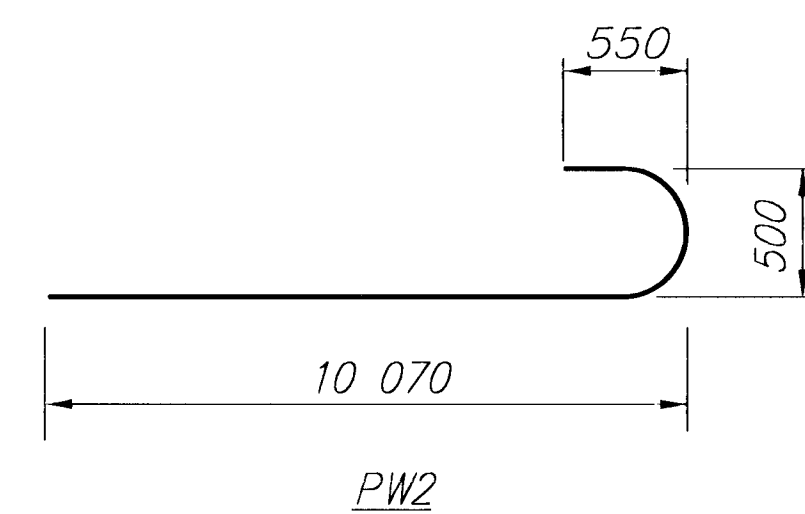
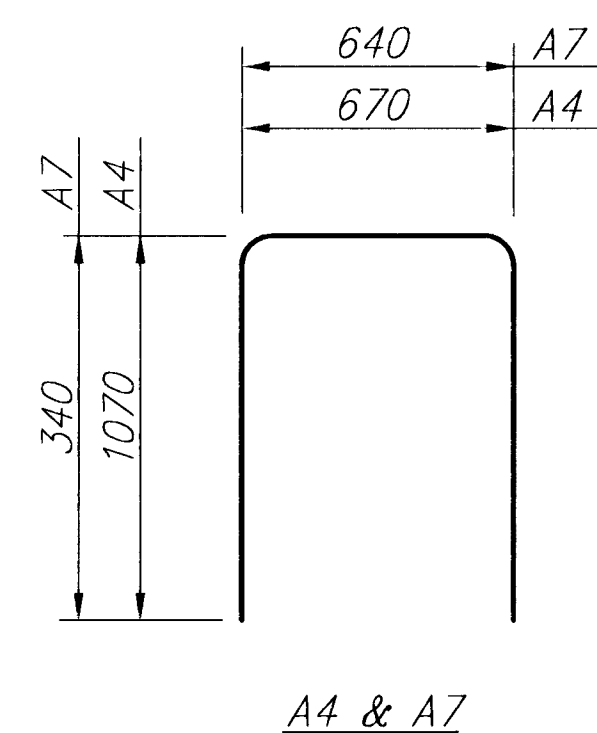
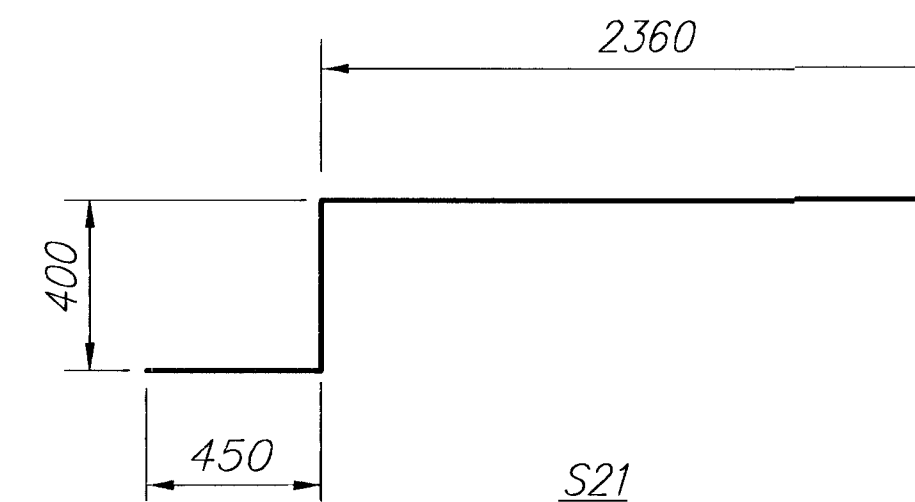
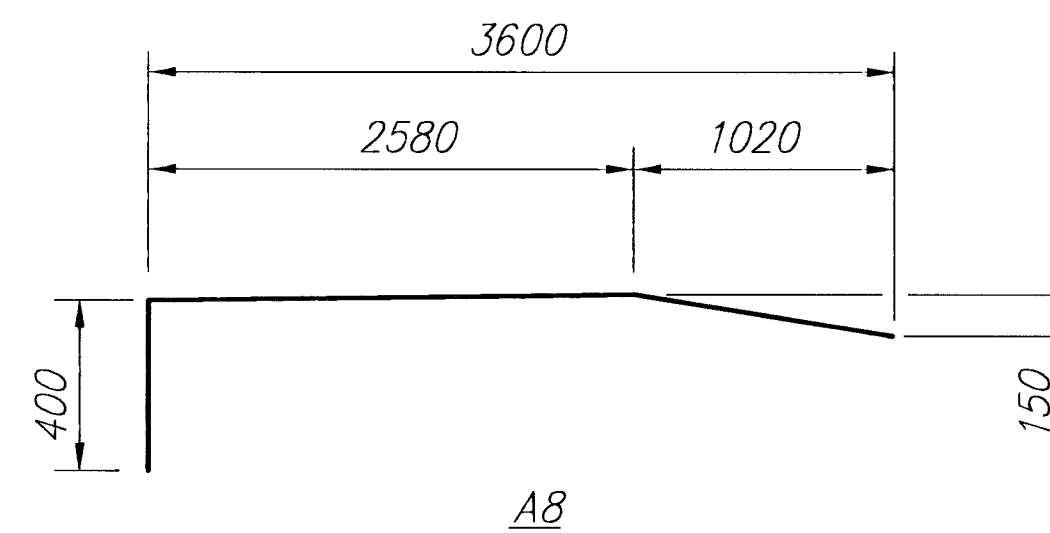
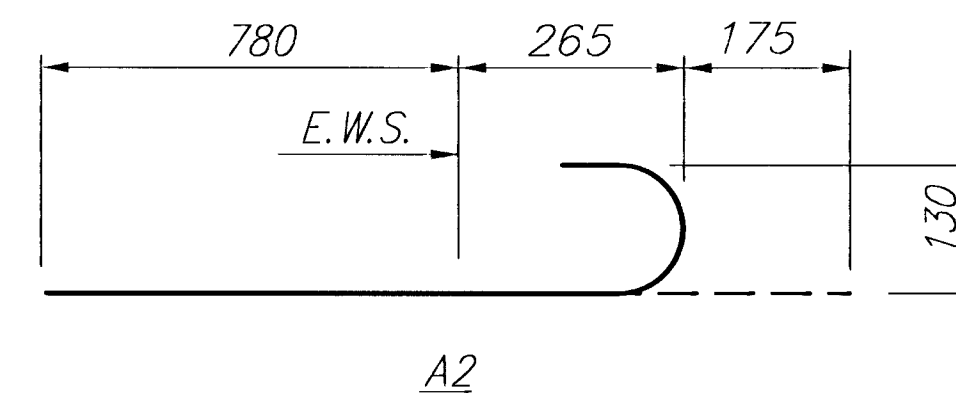
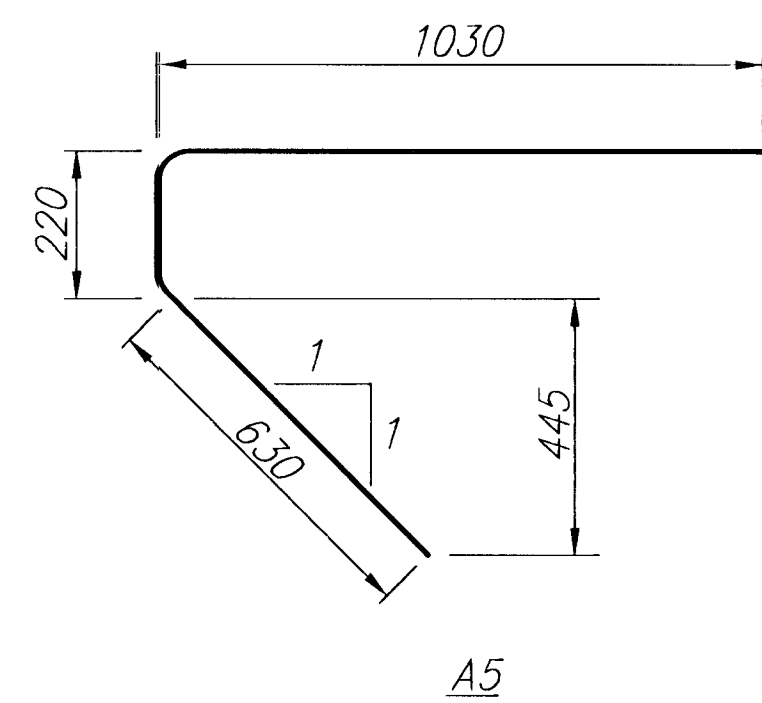
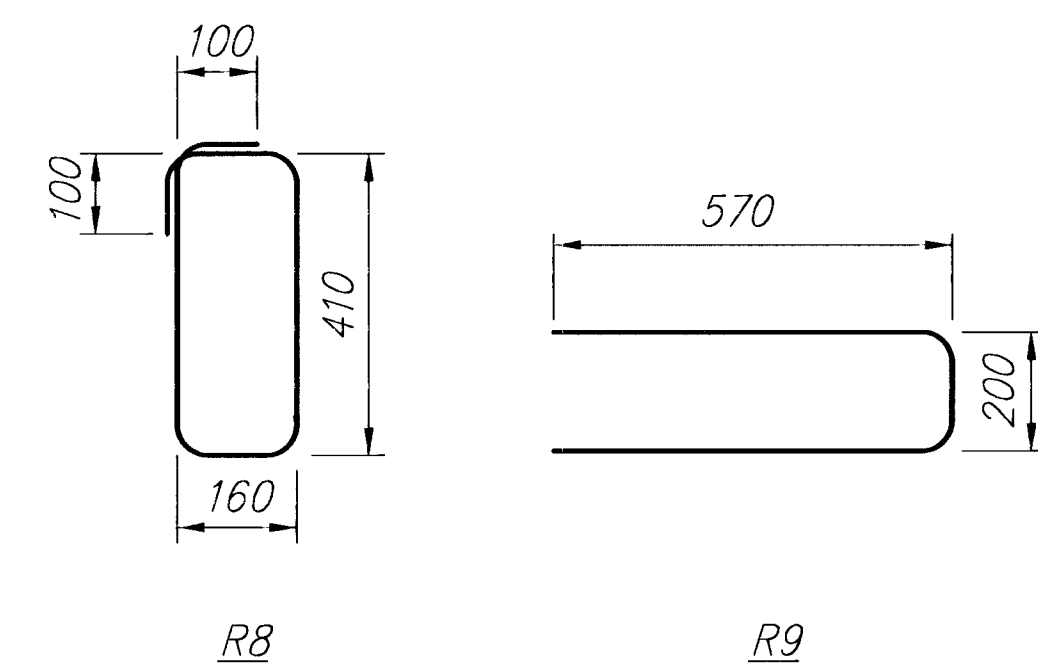
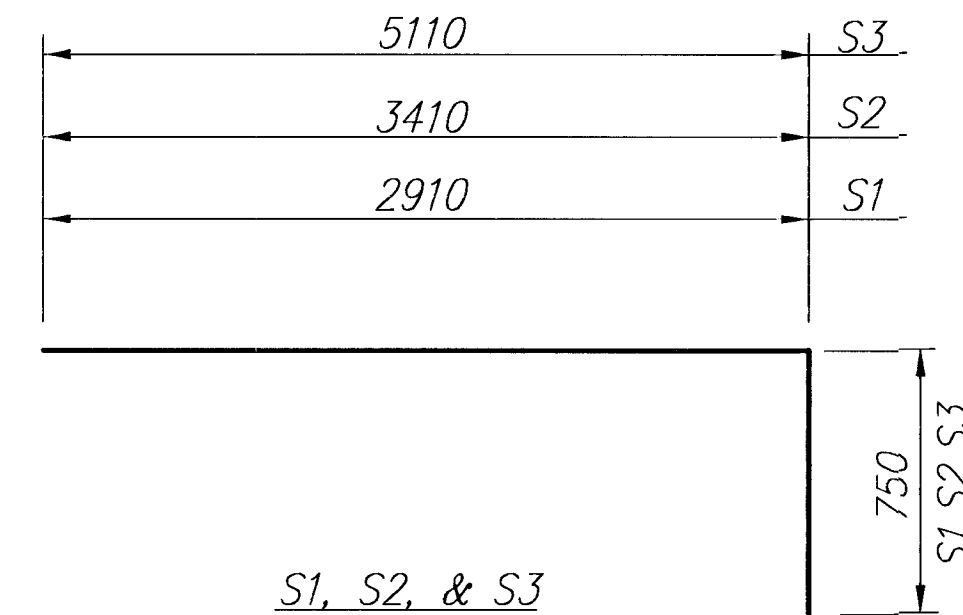
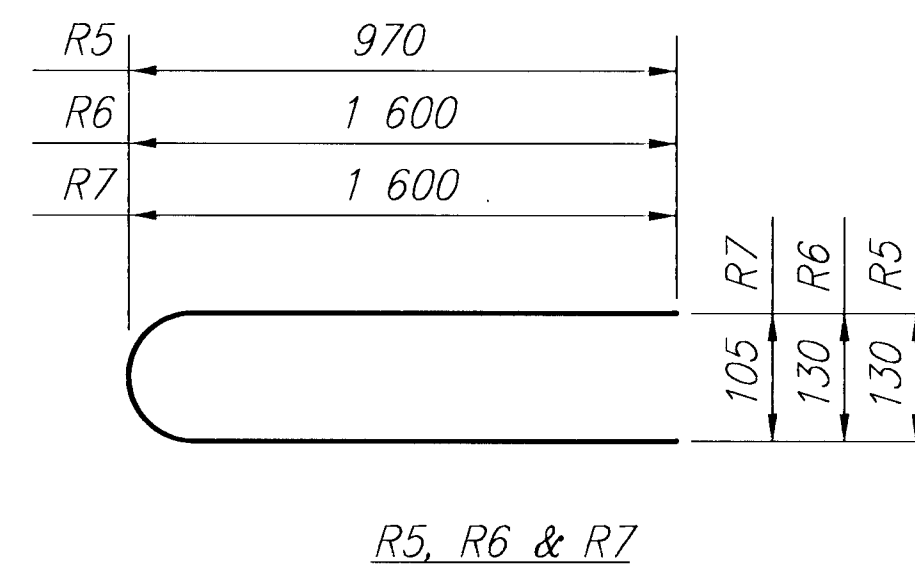
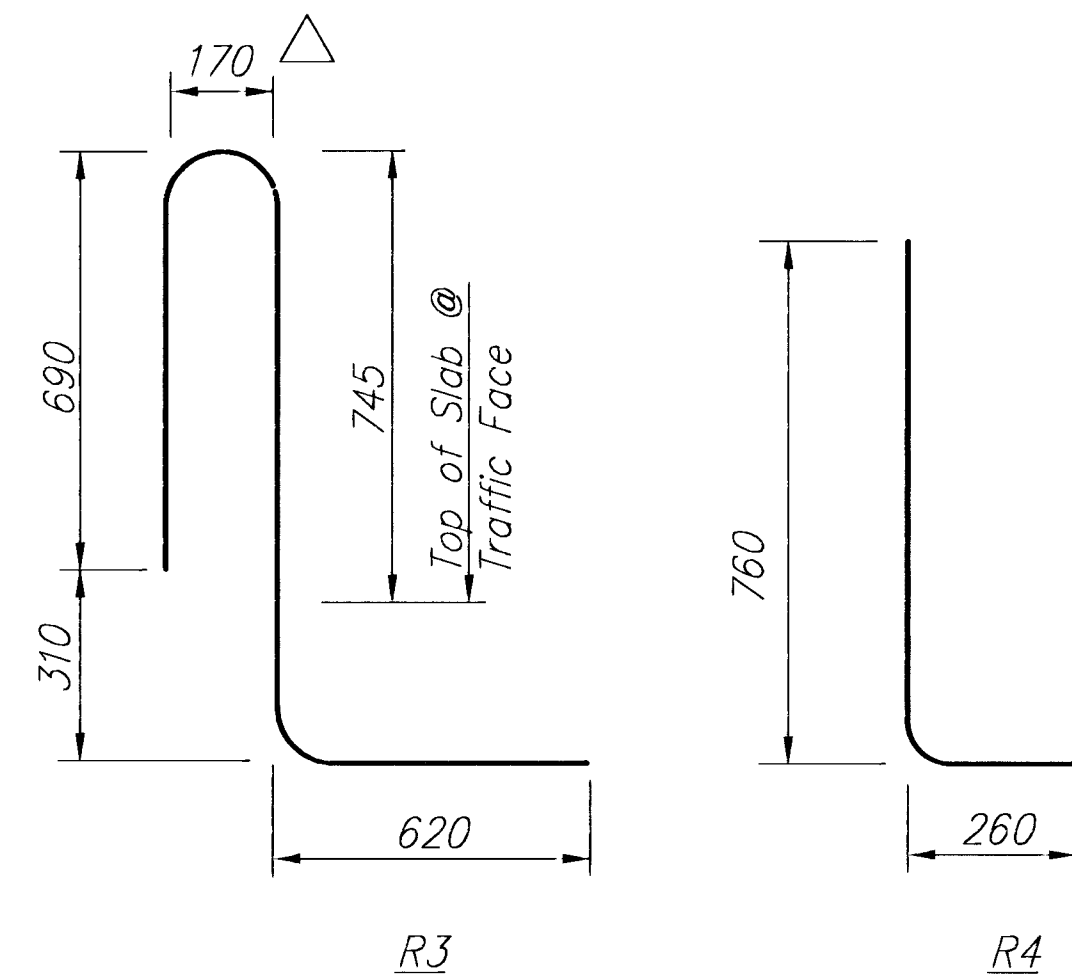
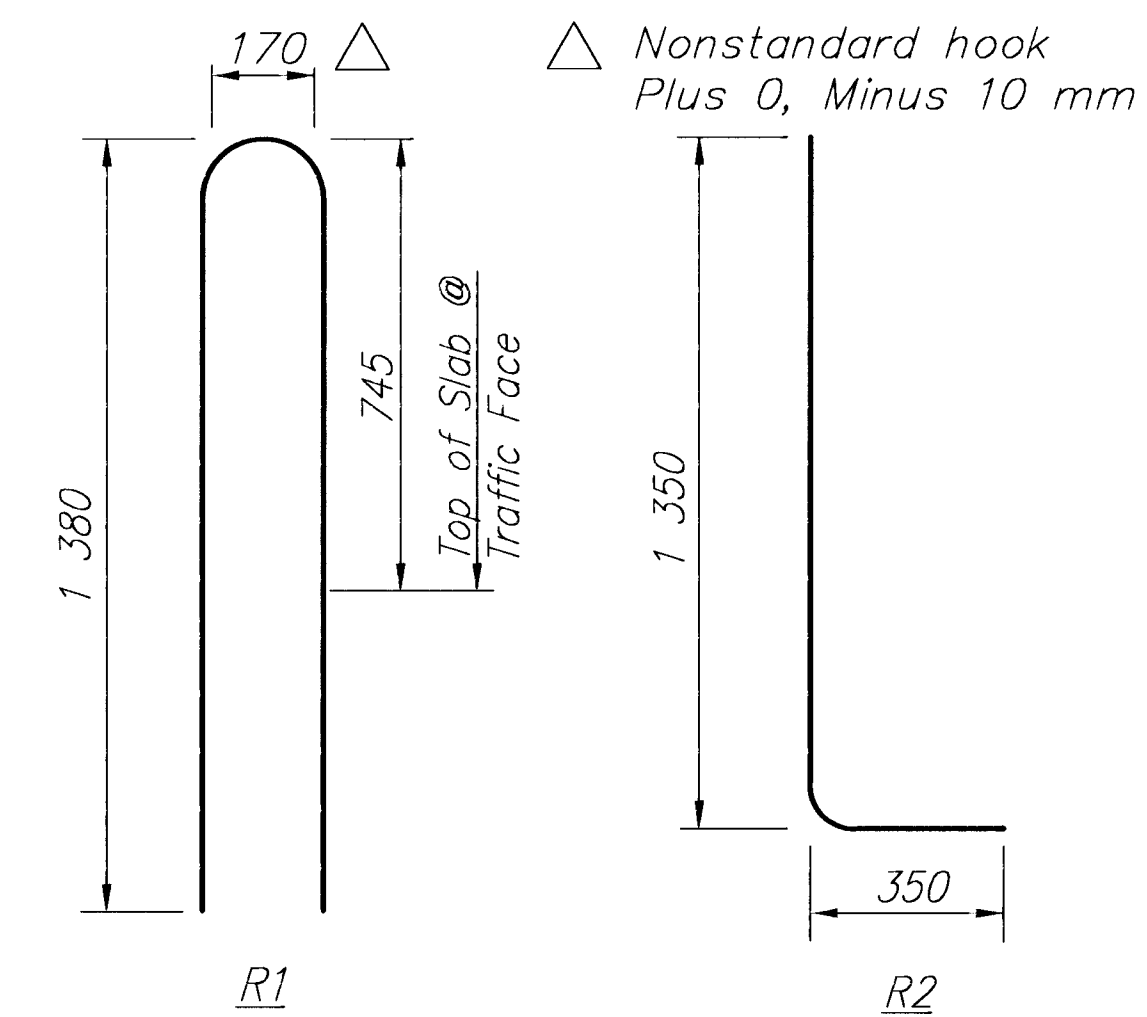
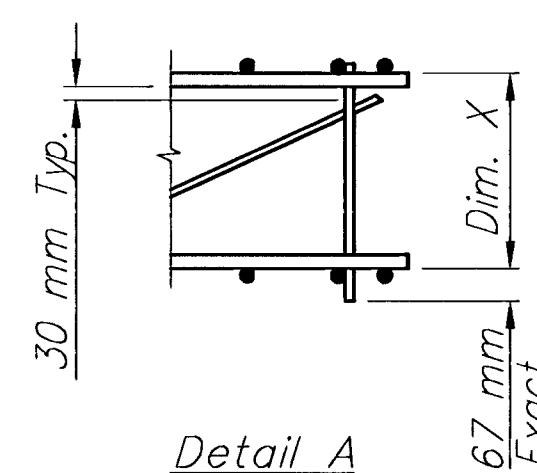




SPACER FRAMES (Epoxy Coated)			
Mark	No. Ea.	Dim. X	Dim.
<i>T3, T12</i>	<i>11</i>	<i>261</i>	<i>348</i>
<i>T4, T13</i>	<i>4</i>	<i>265</i>	<i>352</i>
<i>T5, T14</i>	<i>4</i>	<i>276</i>	<i>363</i>
<i>T6, T15</i>	<i>4</i>	<i>294</i>	<i>381</i>
<i>T7, T16</i>	<i>4</i>	<i>320</i>	<i>407</i>
<i>T8, T17</i>	<i>4</i>	<i>354</i>	<i>441</i>
<i>T9, T18</i>	<i>4</i>	<i>394</i>	<i>481</i>
<i>T10, T19</i>	<i>4</i>	<i>442</i>	<i>529</i>
<i>T11, T20</i>	<i>4</i>	<i>498</i>	<i>585</i>

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



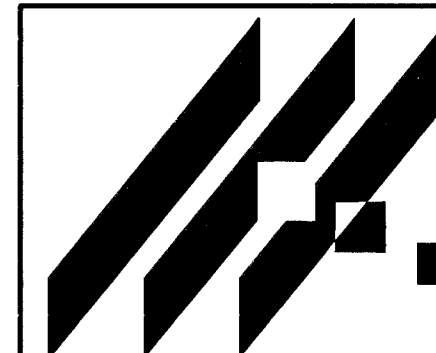
BENDING DIAGRAMS

(All dimensions are out to out of bars.)

		BILL OF REINFORCING STEEL							
		Epoxy Coated – Grade 420							
		Straight Bars				Bent Bars			
		Mark	Size	Number	Length	Mark	Size	Number	Length
SUPERSTRUCTURE	Abutment – Deck – Rail	S4	32	52	17 950	S1	25	44	3660
		S5	32	44	11 000	S2	25	44	4160
		S6	32	44	5700	S3	25	52	6860
		S8	32	44	14 710				
		S9	32	32	14 410	R1	22	24	2830
		S11	32	32	6800	R2	22	4	1700
		S15	32	22	18 000	R3	22	236	2380
		S10	29	32	8600	A2	16	89	1220
		S16	29	16	18 000	R5	16	8	1990
		S17	29	16	9600	R6	16	8	3250
		S18	29	16	7200	S21	16	590	3210
		A1	25	16	17 350				
		R11	19	24	2470	A4	13	218	2810
		R12	19	156	2900	A5	13	89	1880
		S7	19	16	10 570	A7	13	28	1320
						R4	13	236	1020
		A3	16	20	17 350	R7	13	4	3240
		T1	16	163	10 570	A8	16	16	4000
						R8	10	410	1340
						R9	10	112	1340
		S20	16	56	11 780	R10	10	56	1340
	A6	13	4	7600	T3–T20			*	
	C2	13	16	11 750					
	SC1	13	84	2000					
	T2	13	127	10 570					
Pier Head	PH1	16	6	10 570					
	PH2	13	4	10 570					

[illegible]

* See Bending Diagrams



MURDOCK AVENUE BRIDGE

PROJECT NAME

BILL OF REINFORCING STEEL AND BENDING DIAGRAM

SHEET TITLE

KJS

DESIGN BY:

DPG

DRAWN BY:

PAF

CHECKED BY:

FEB 1999

DATE

197042

97042
108 NO.

23 , 39

SHEET / OF