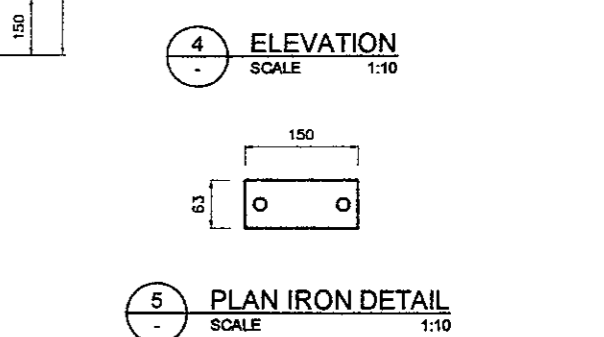
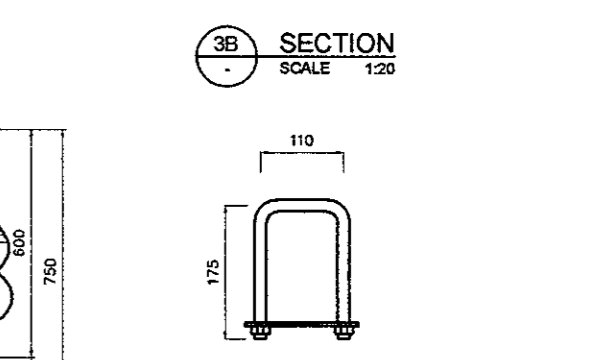
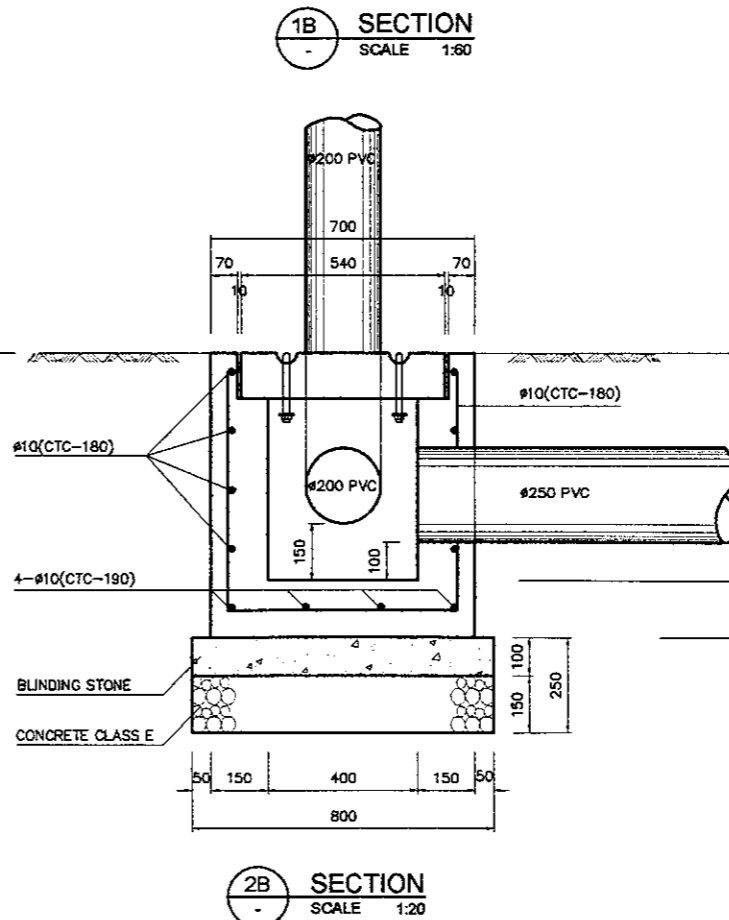
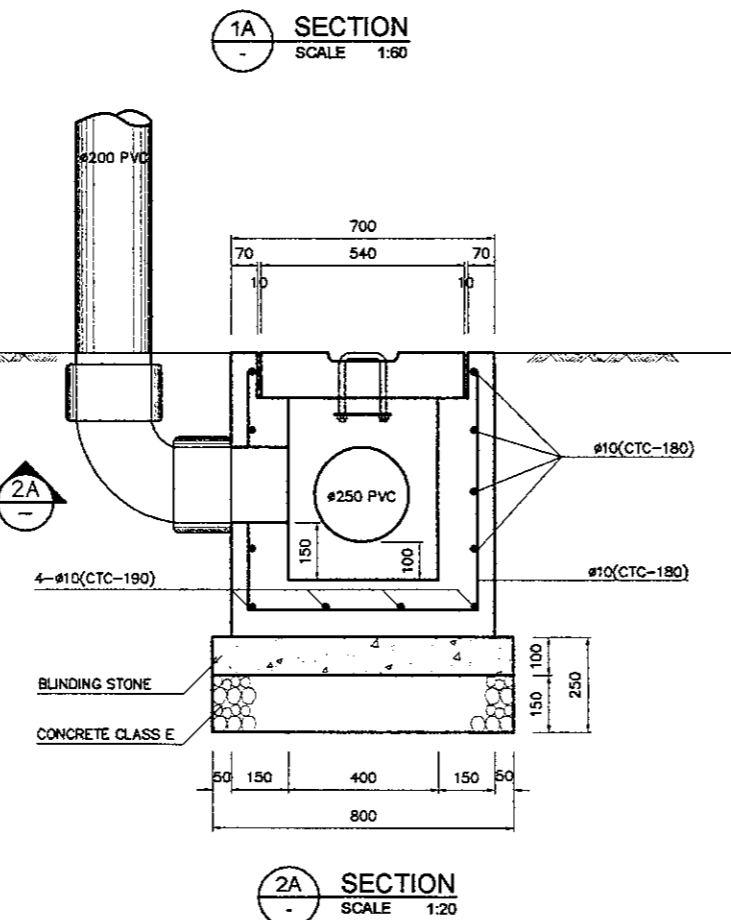
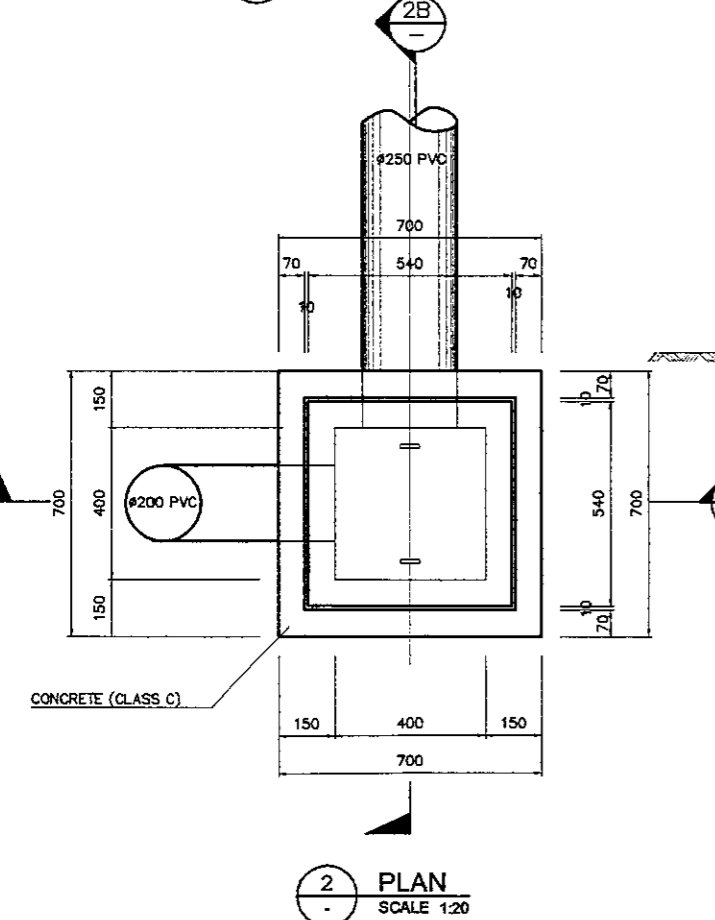
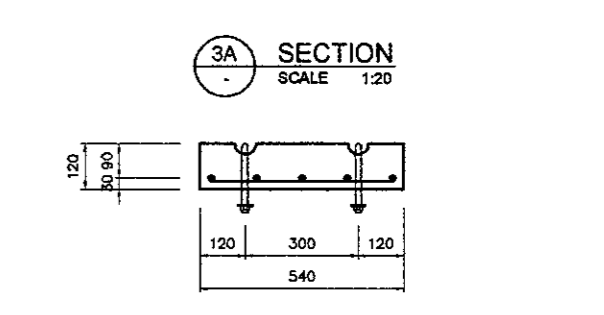
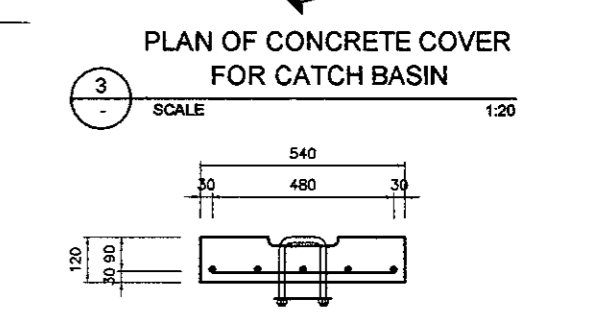
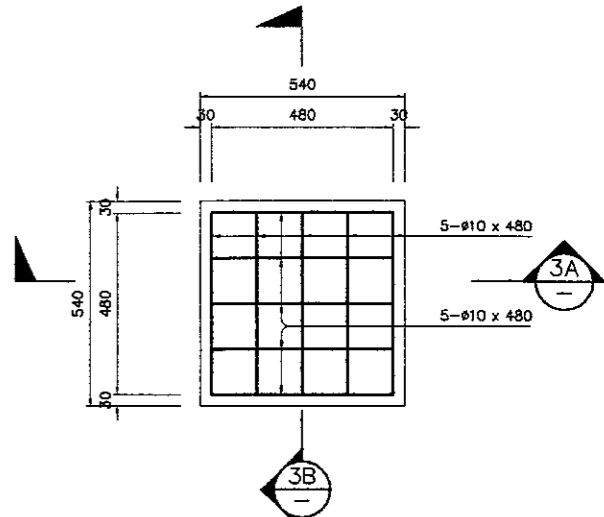
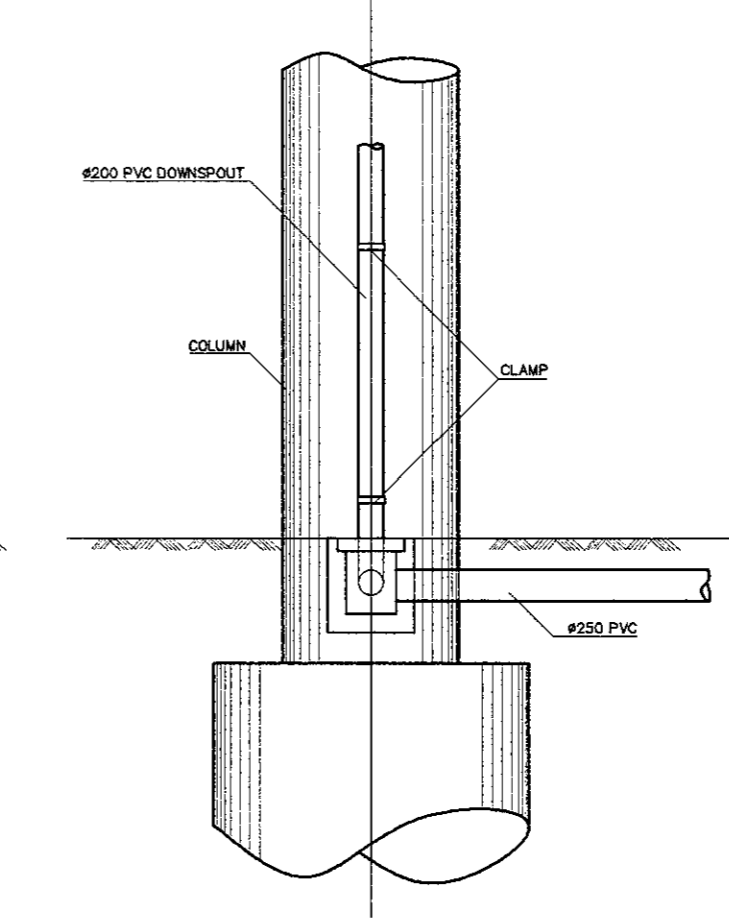
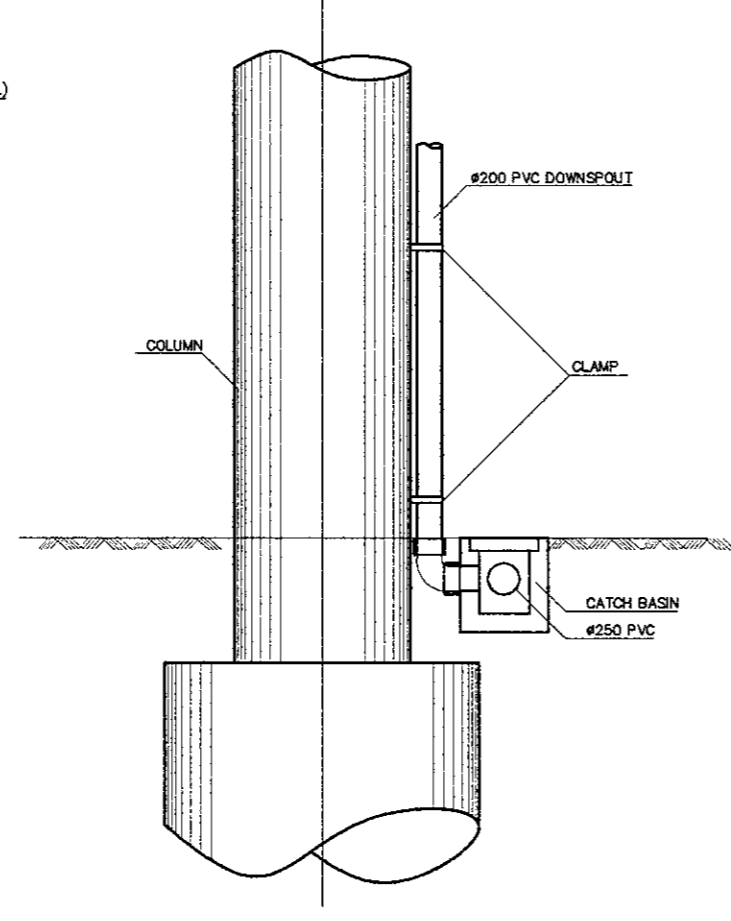
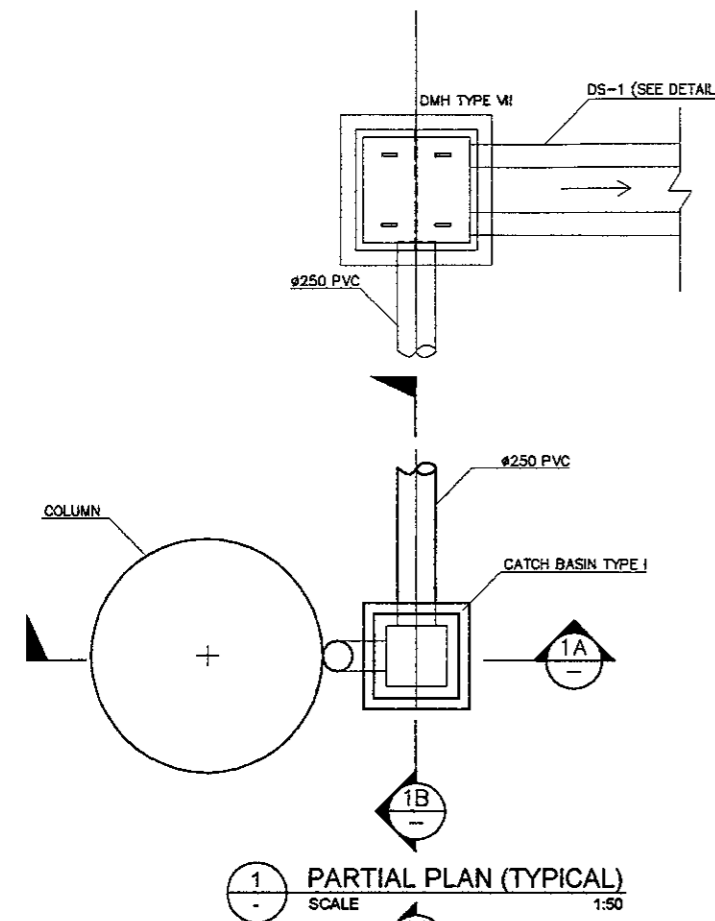
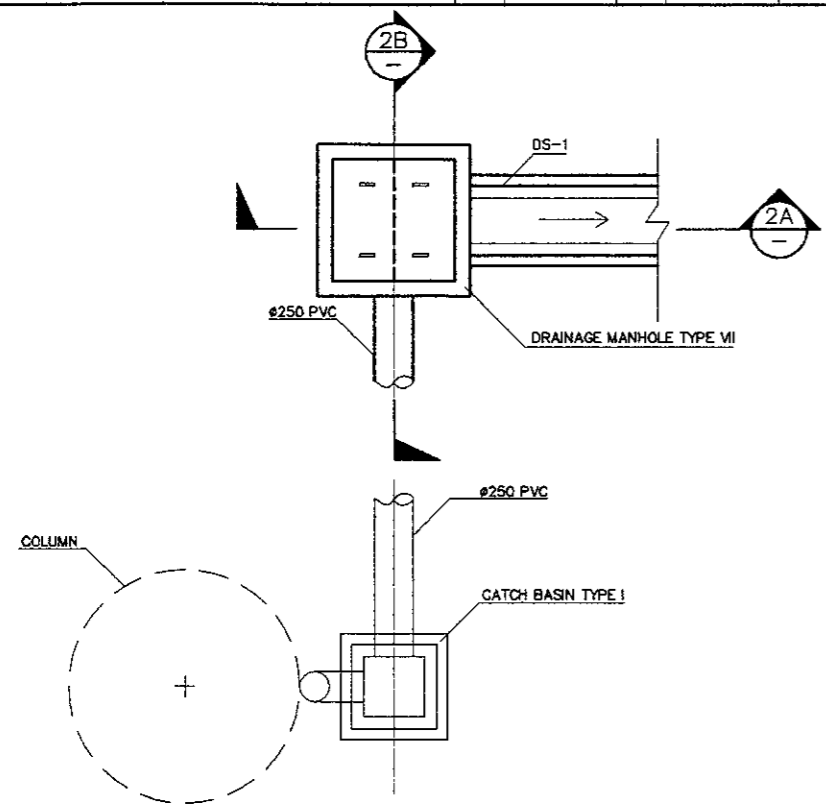


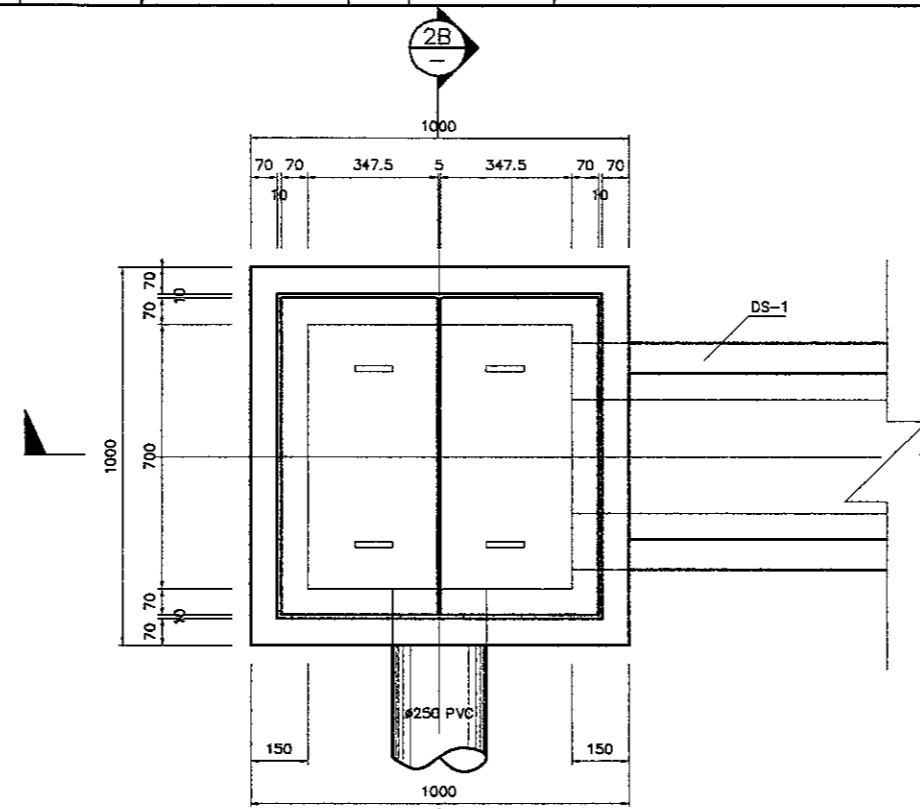
DESIGNED BY	CHECKED BY	SUBMITTED BY
Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI
Sign: _____	Sign: _____	Sign: _____
Date: _____	Date: _____	Date: _____



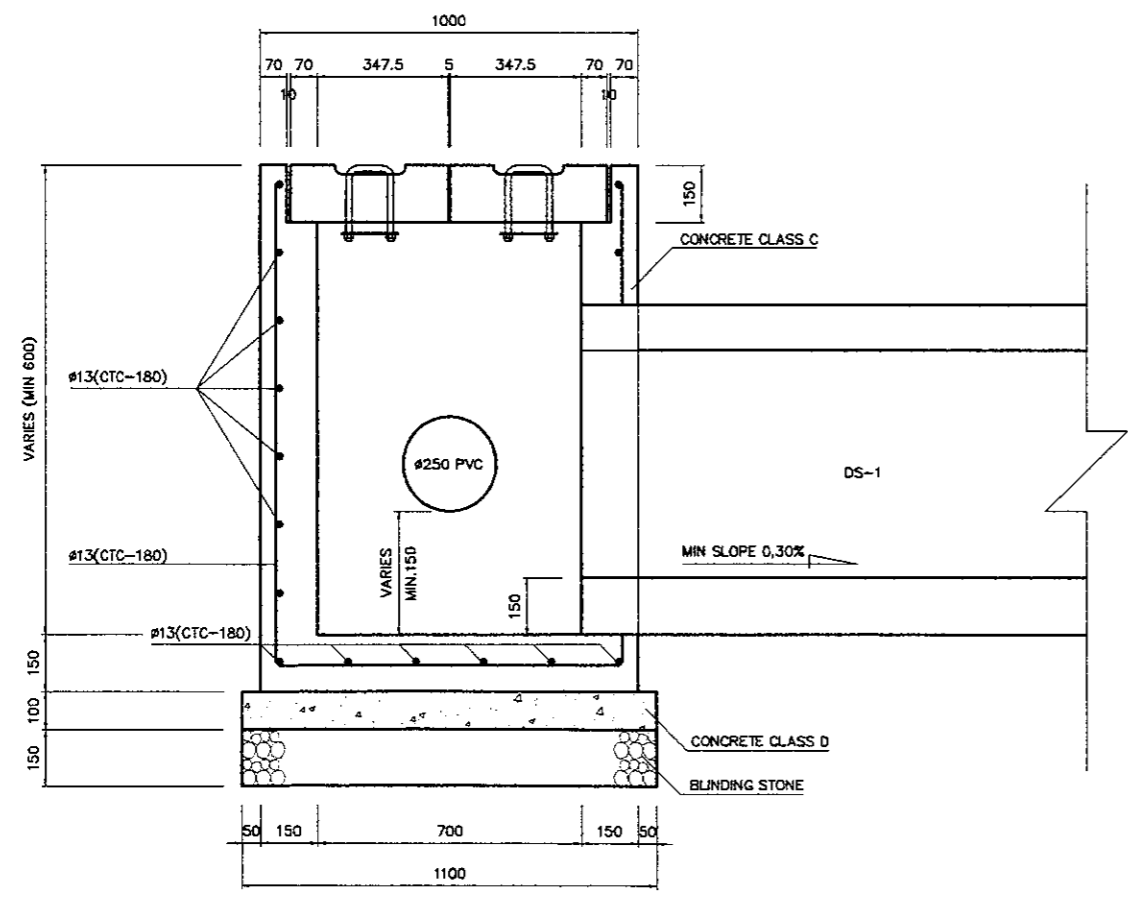
DESIGNED BY	CHECKED BY	SUBMITTED BY
Name R. UENO	Name T. OKUMURA	Name M. KIUCHI
Sign	Sign	Sign
Date	Date	Date



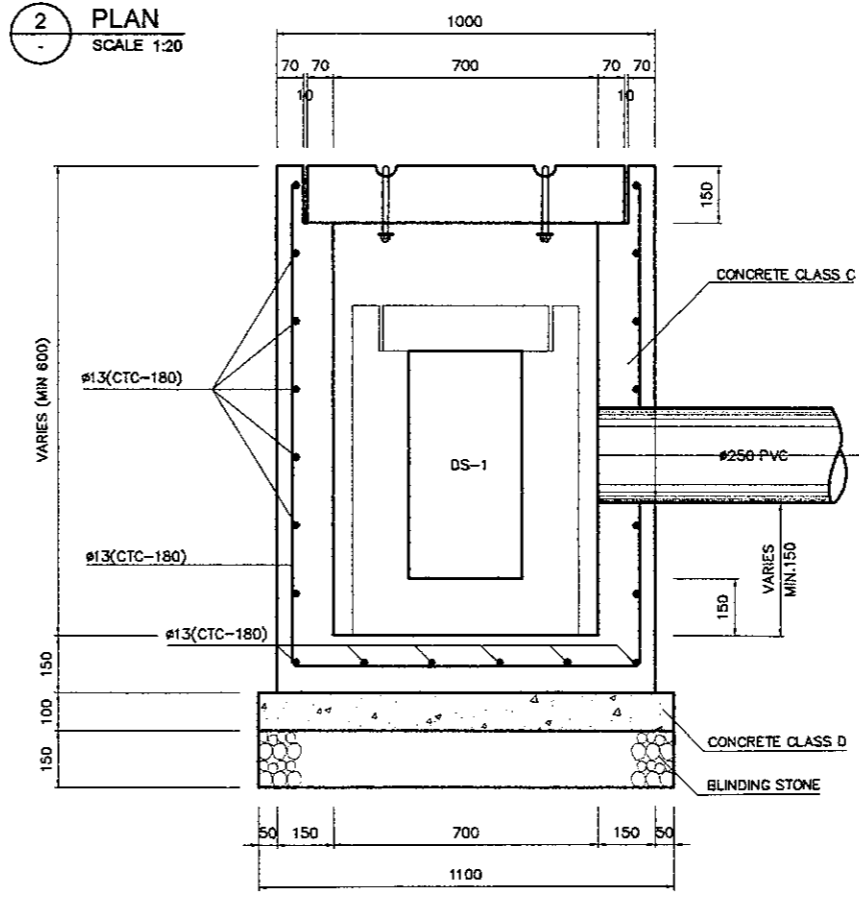
**1 PARTIAL PLAN (TYPICAL)**  
 SCALE 1:50



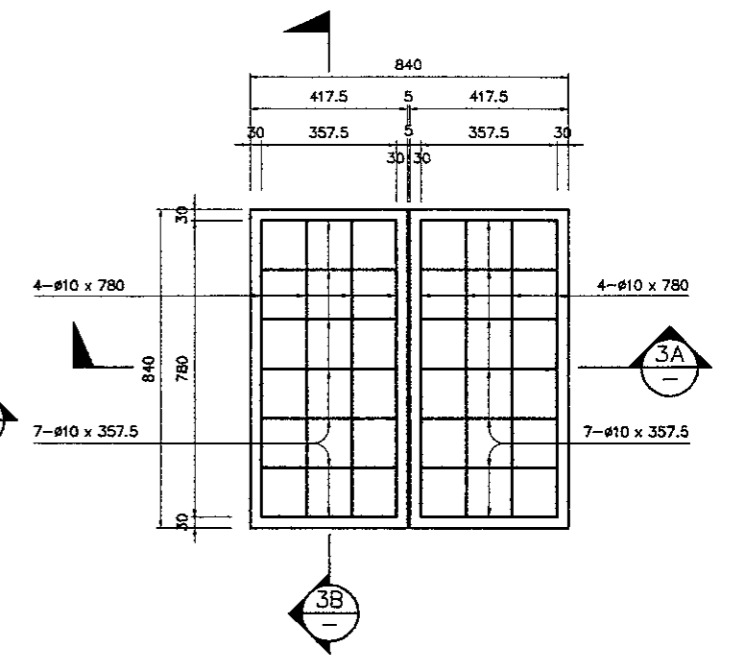
**2 PLAN**  
 SCALE 1:20



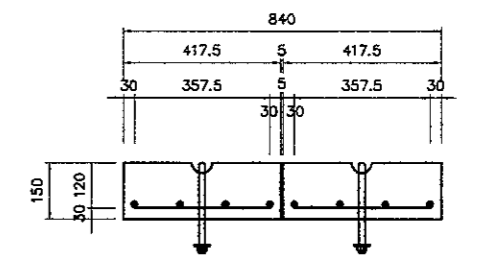
**2A SECTION**  
 SCALE 1:20



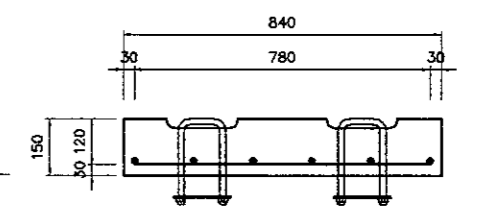
**2B SECTION**  
 SCALE 1:20



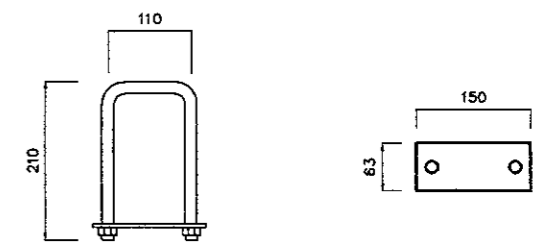
**3 PLAN**  
 SCALE 1:20



**3A SECTION**  
 SCALE 1:20



**3B SECTION**  
 SCALE 1:20

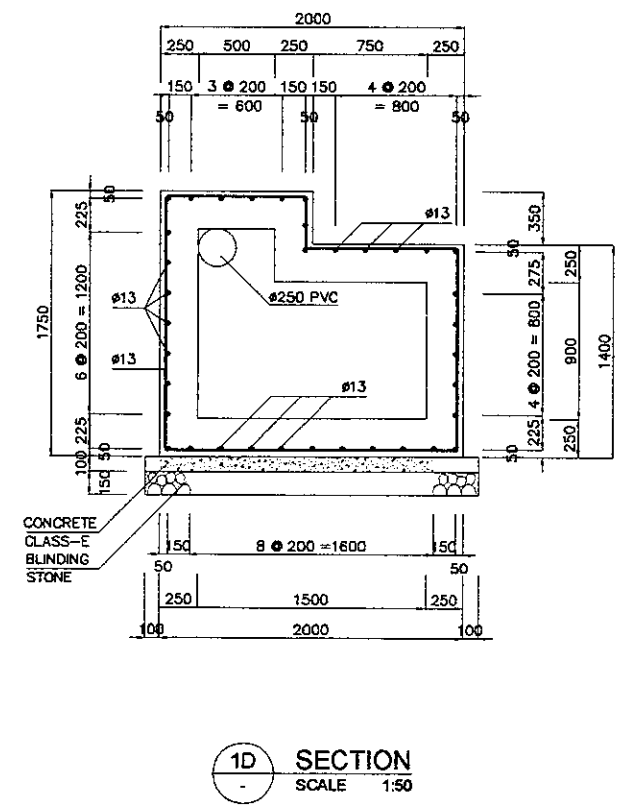
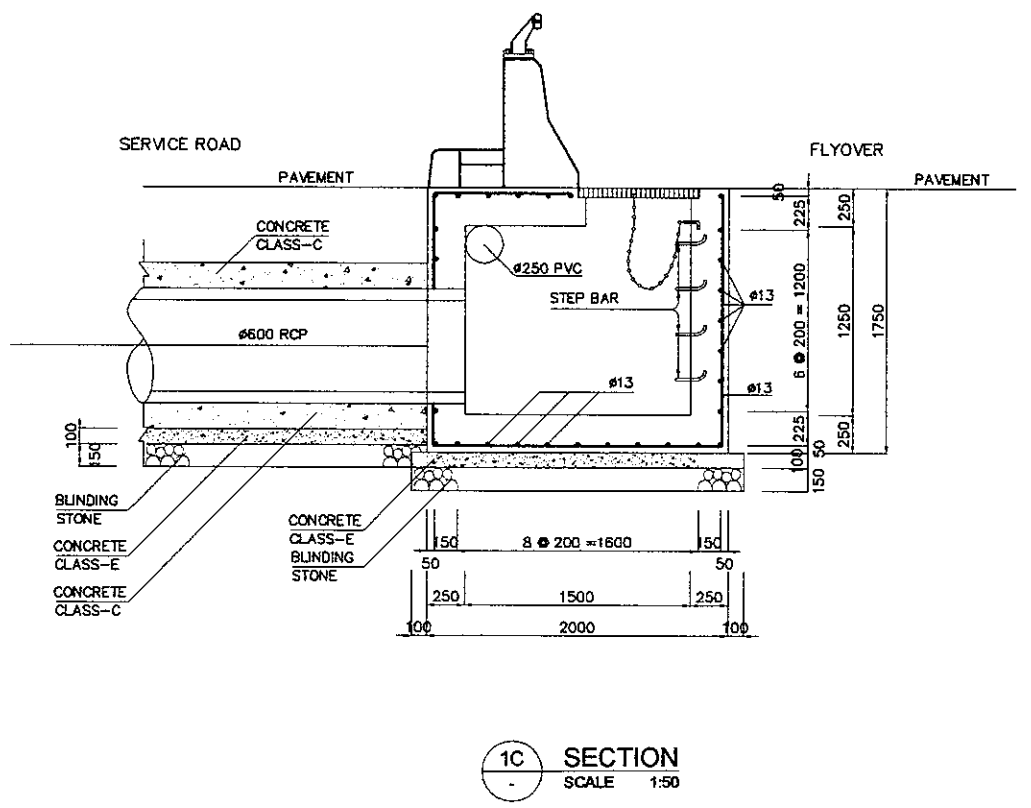
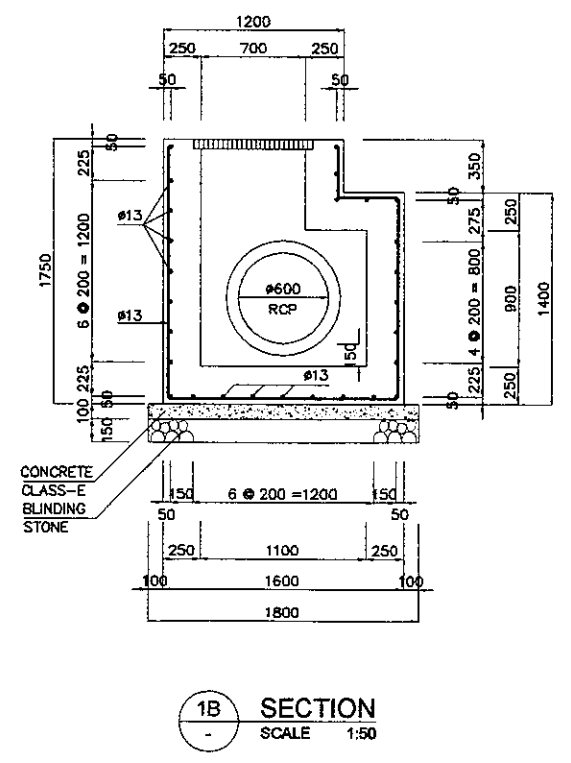
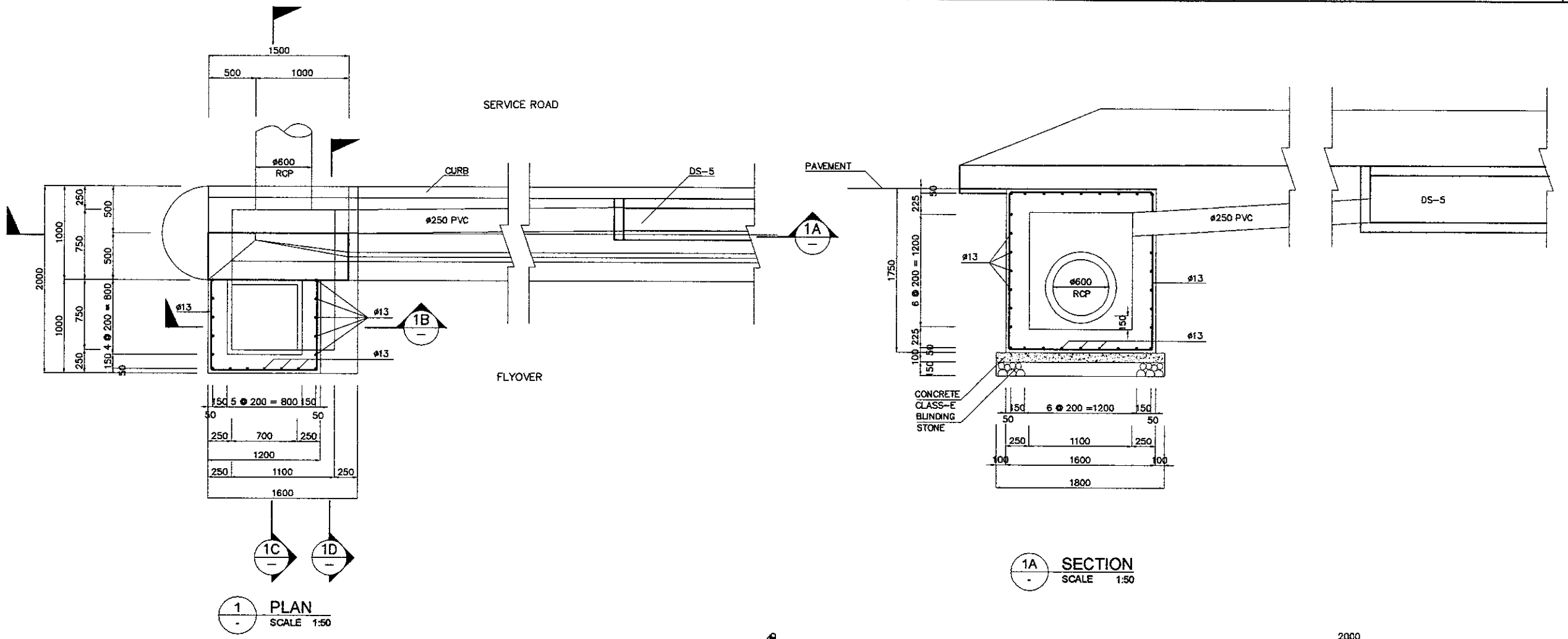


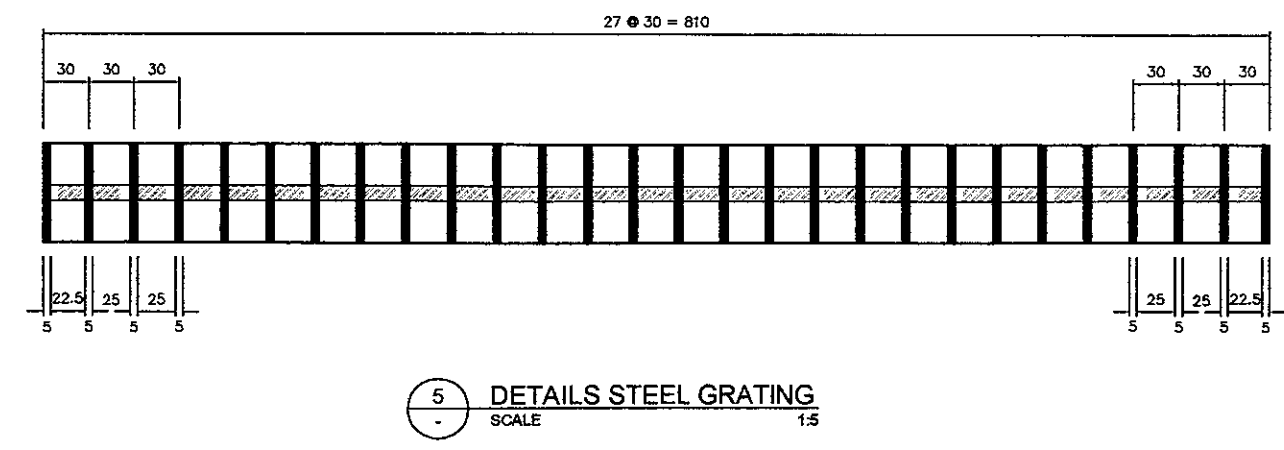
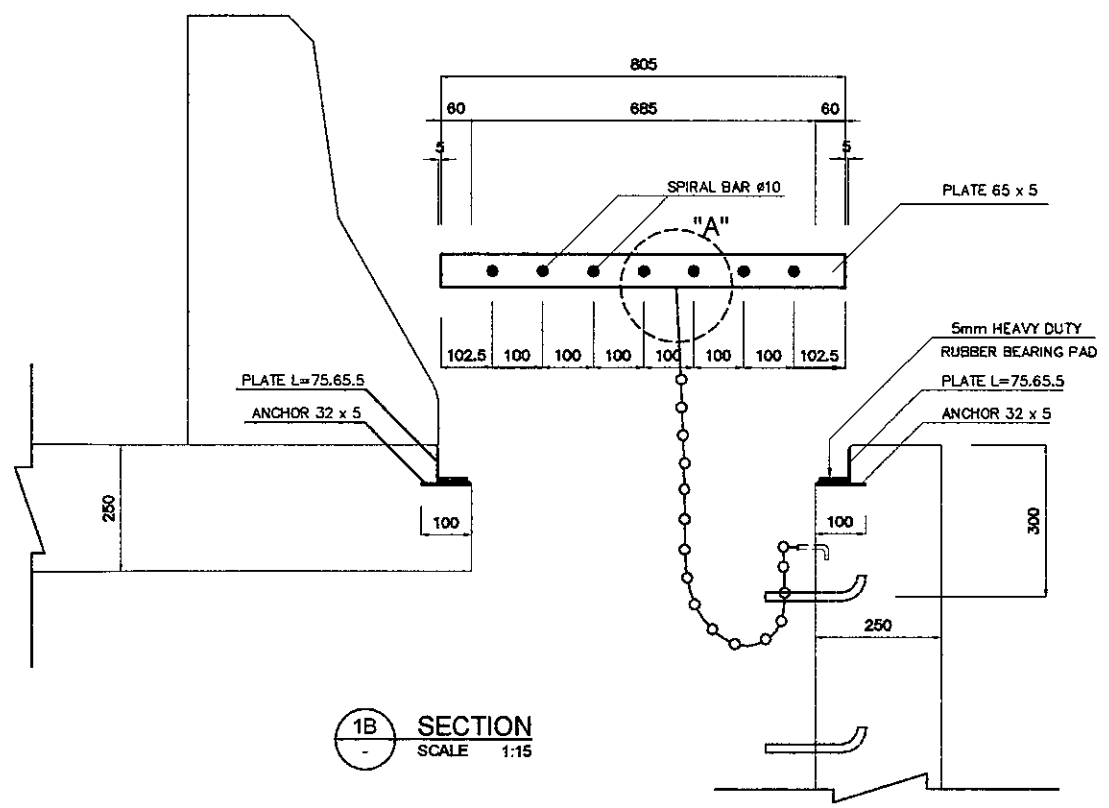
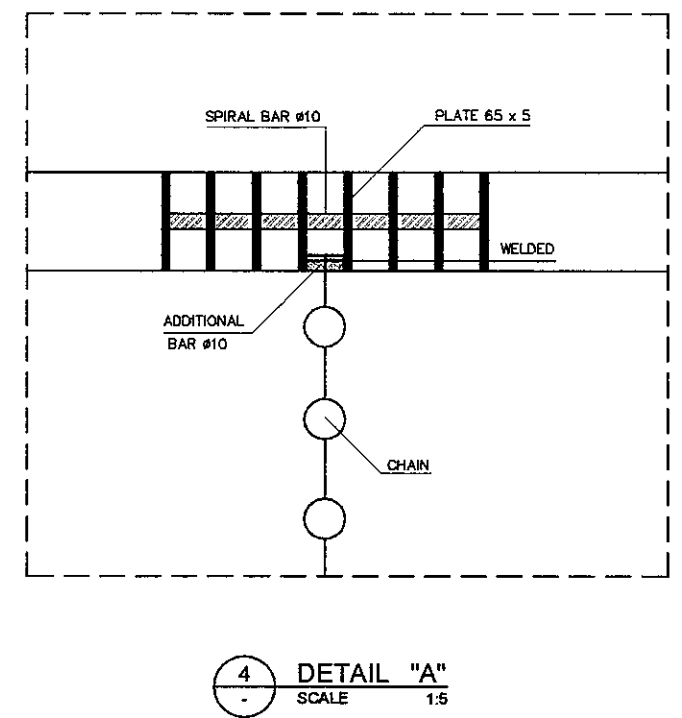
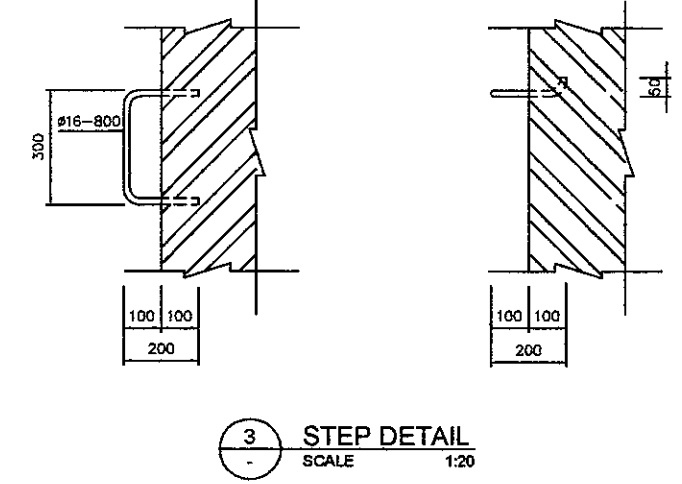
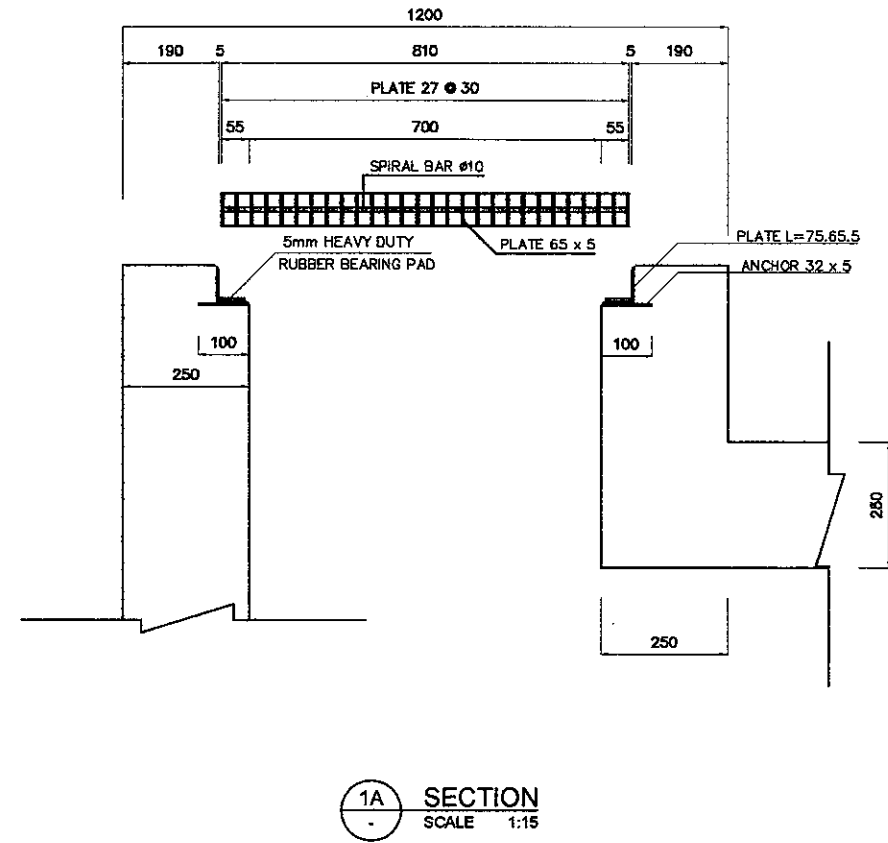
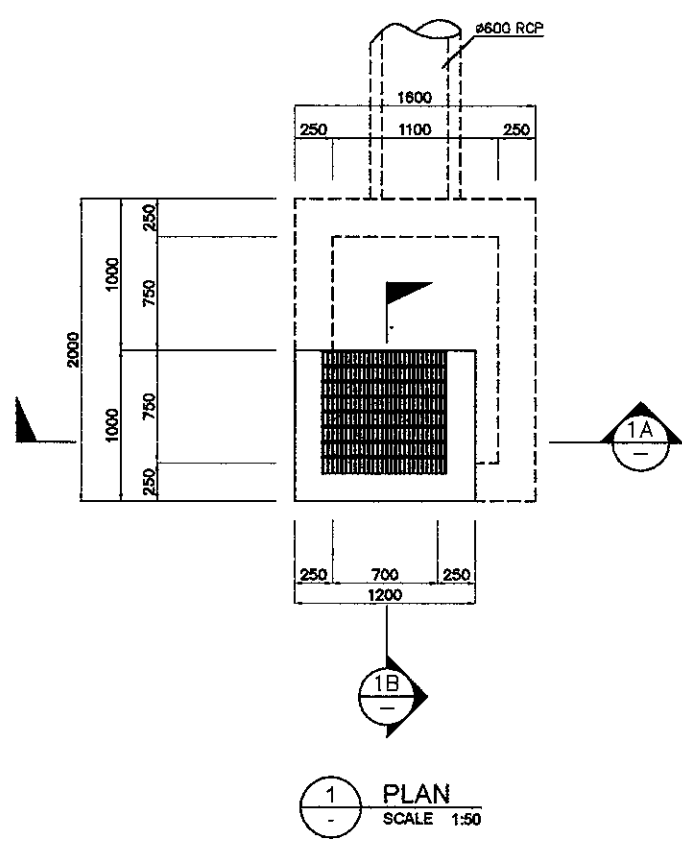
**3C ELEVATION**  
 SCALE 1:10

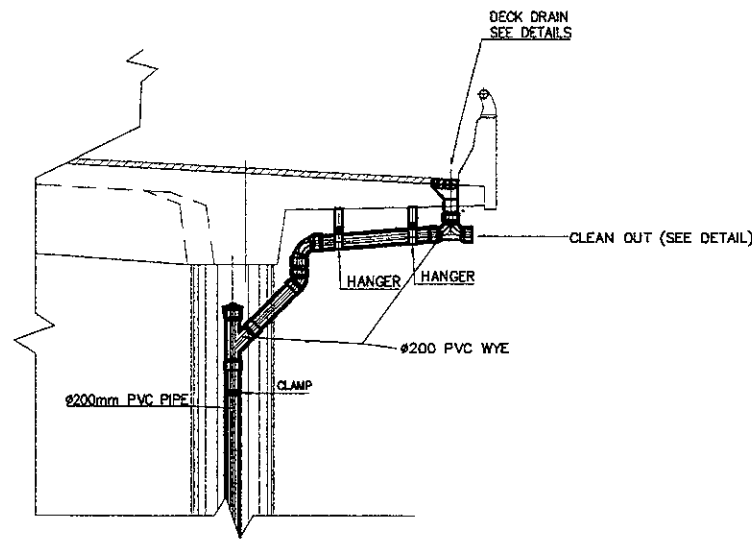


**3D PLAN IRON DETAIL**  
 SCALE 1:10

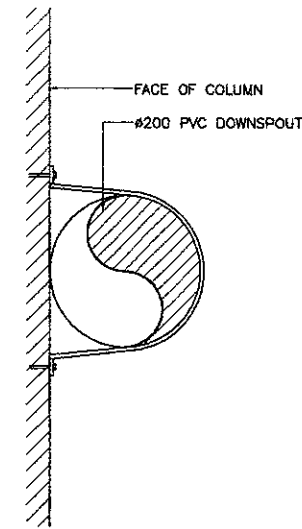
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



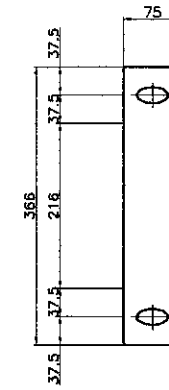




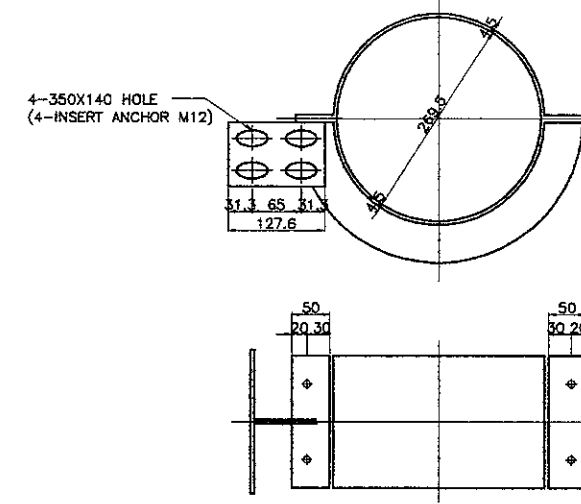
1 DECK DRAIN / DOWNSPOUT DETAIL  
 SCALE 1:50



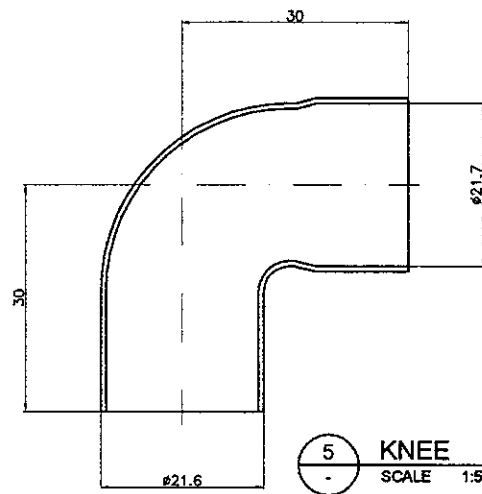
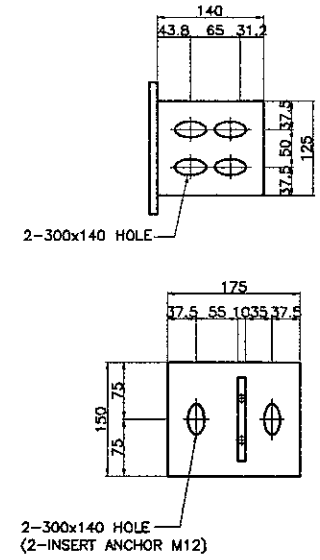
2 CLAMP  
 SCALE 1:5



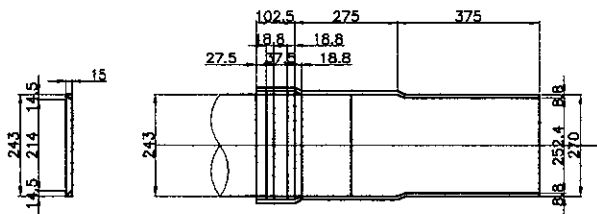
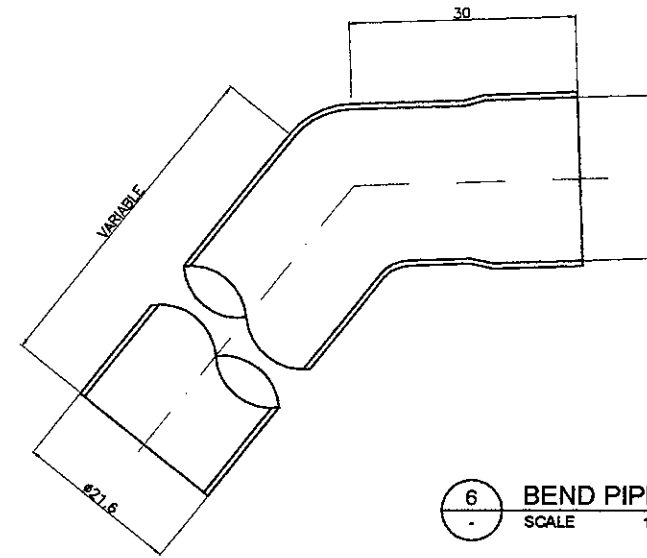
3 BRACKET  
 SCALE 1:5



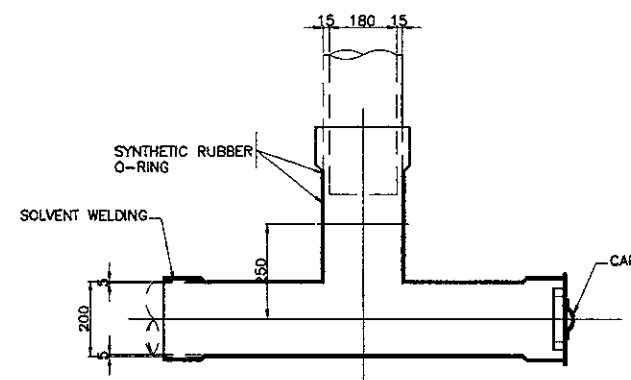
6 BEND PIPE  
 SCALE 1:5



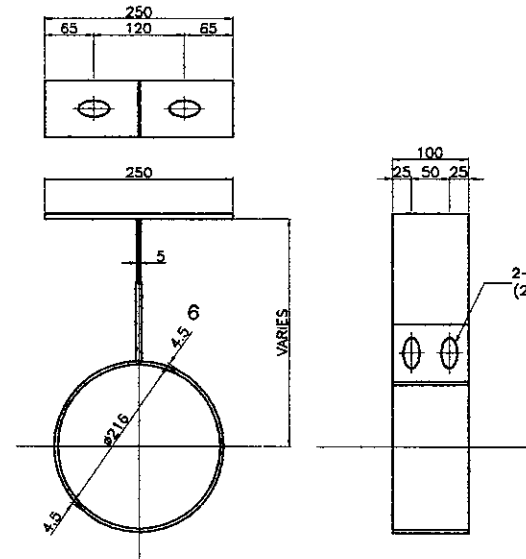
5 KNEE  
 SCALE 1:5



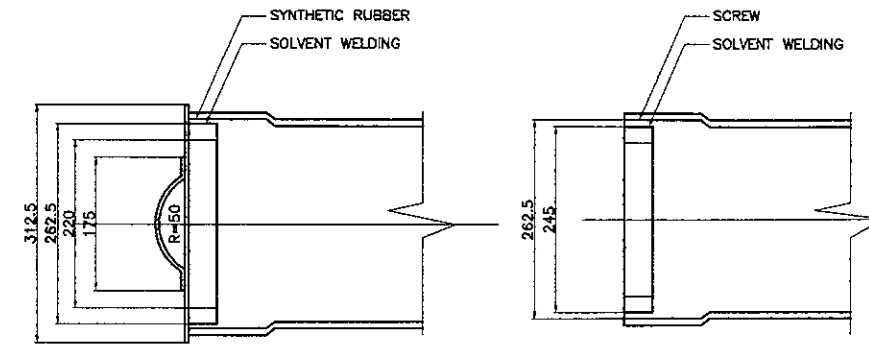
4 HORIZONTAL JOINTING  
 SCALE 1:10



7 VERTICAL JOINTING  
 SCALE 1:10

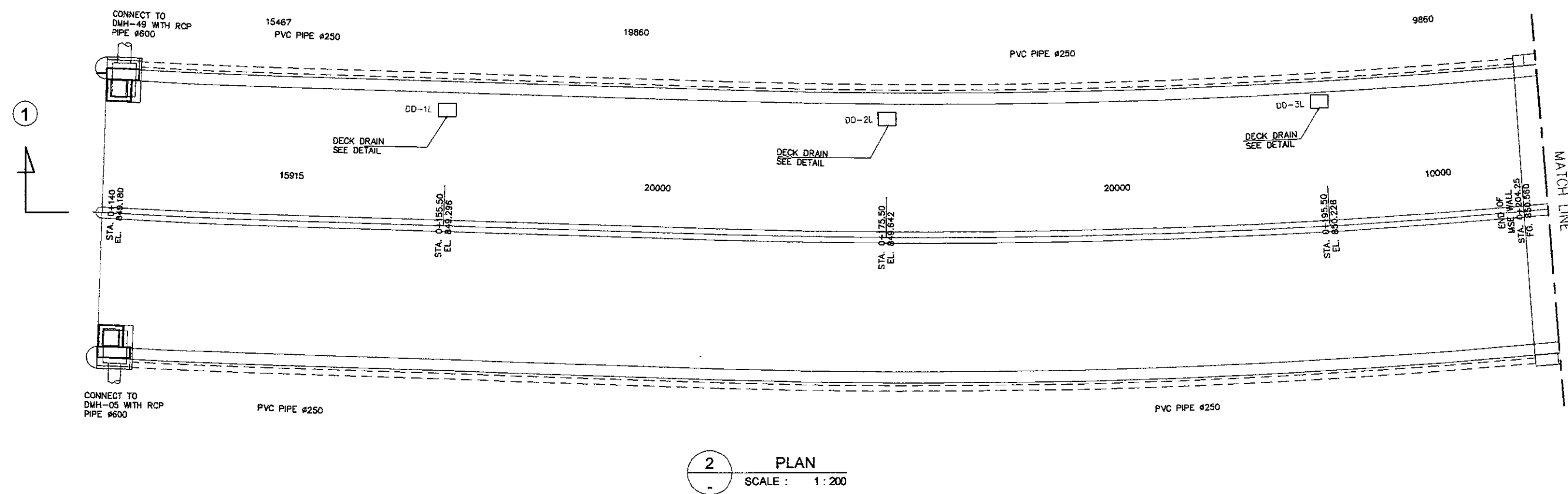
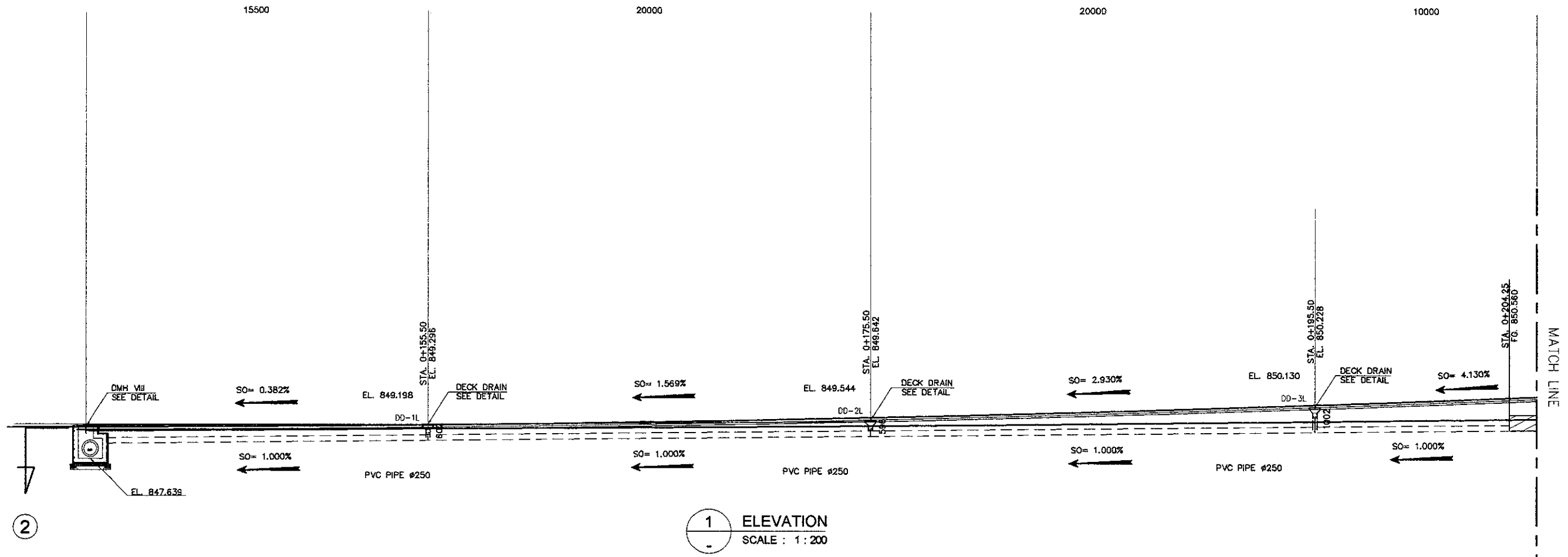


8 HANGER  
 SCALE 1:5

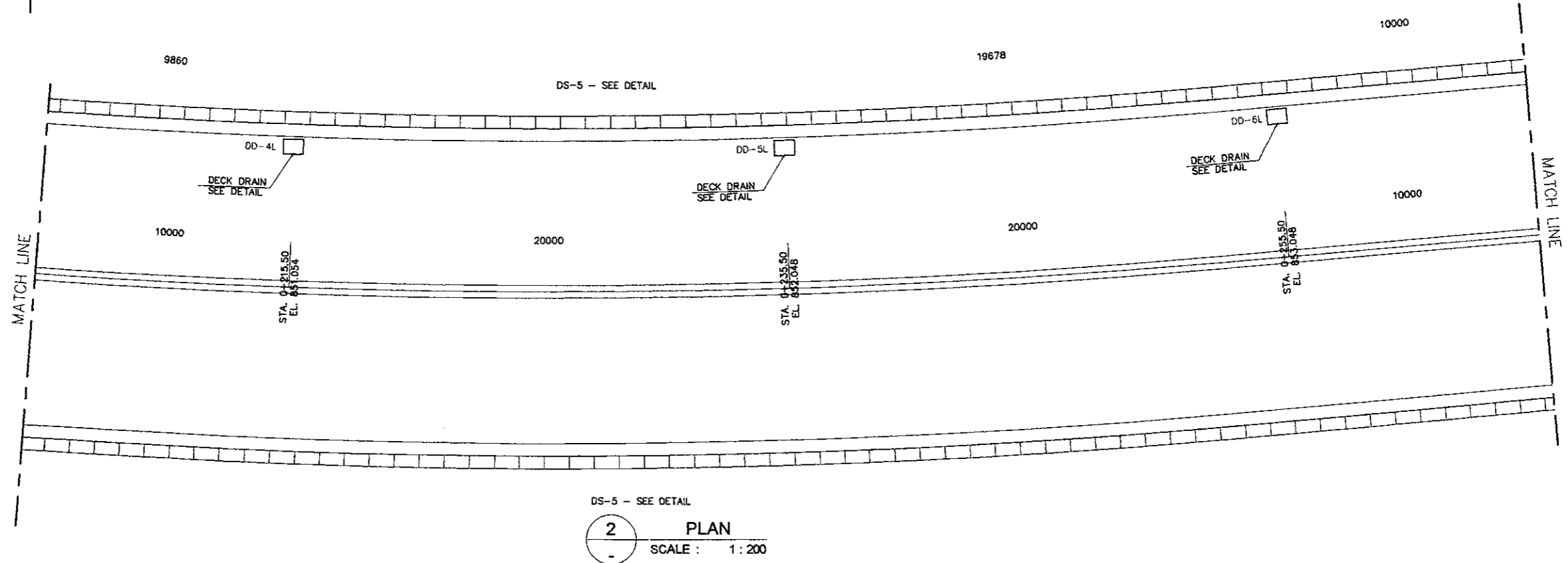
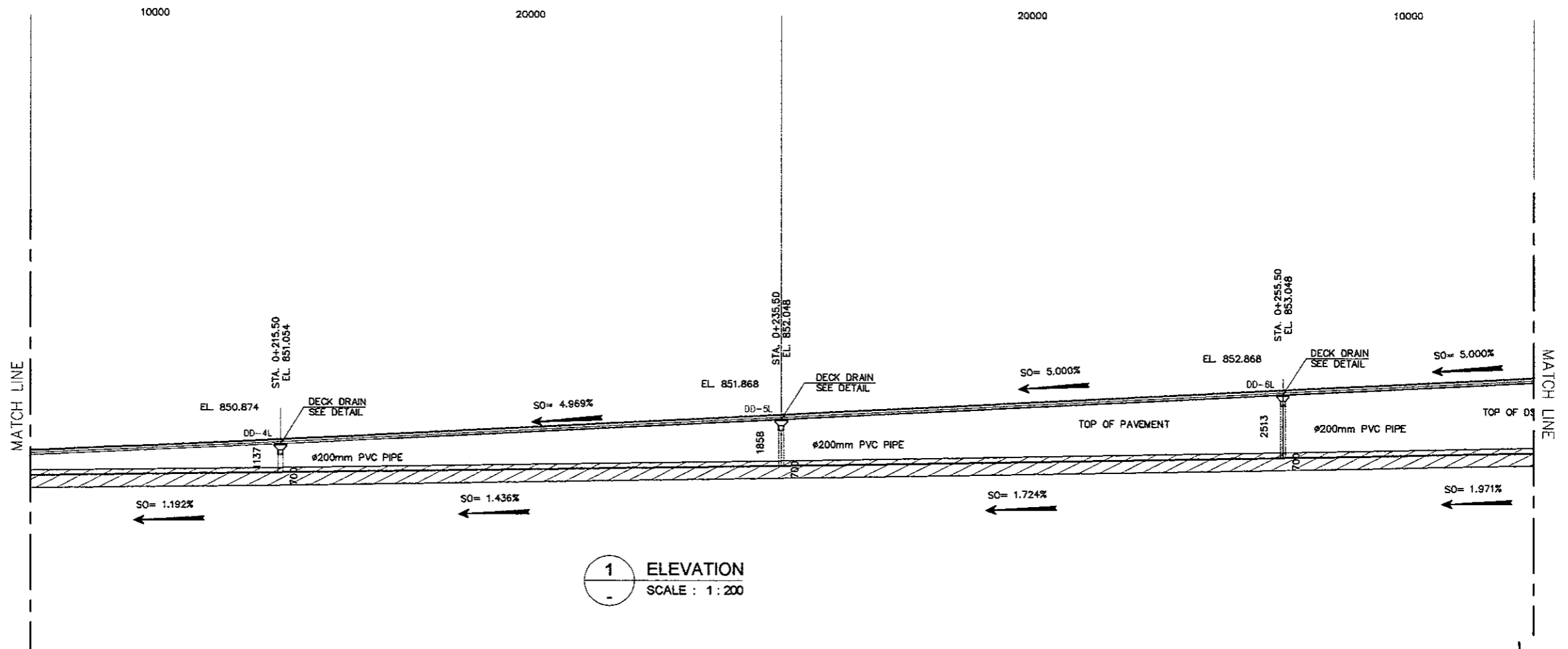


9 CLEAN OUT  
 SCALE 1:5

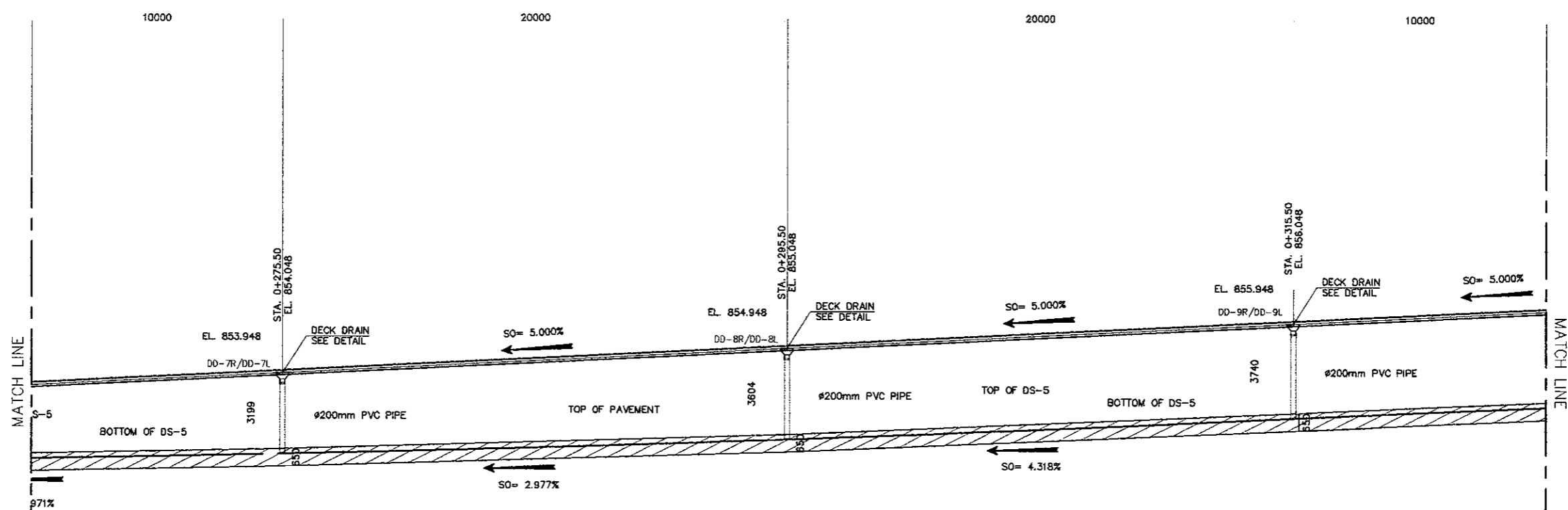
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



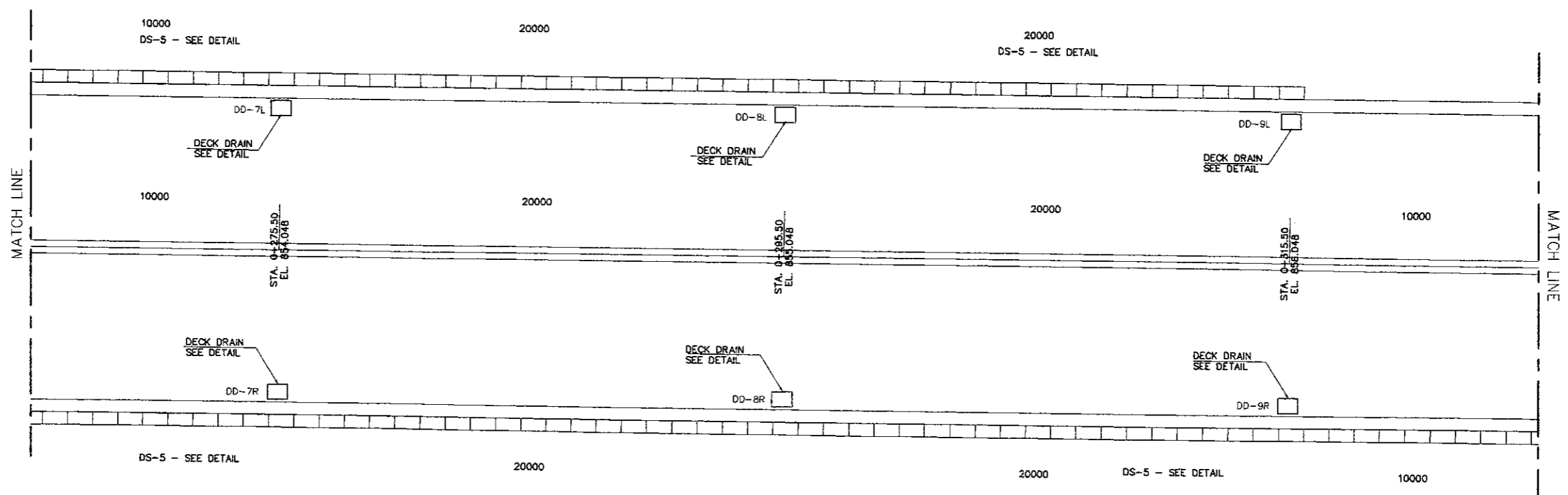
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



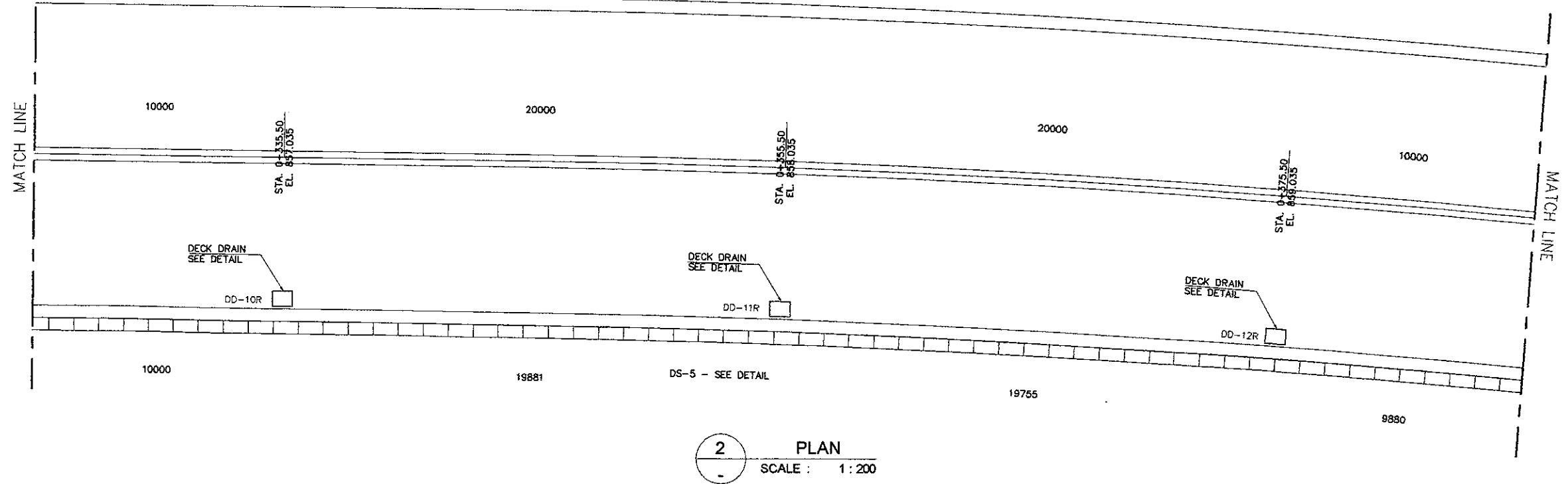
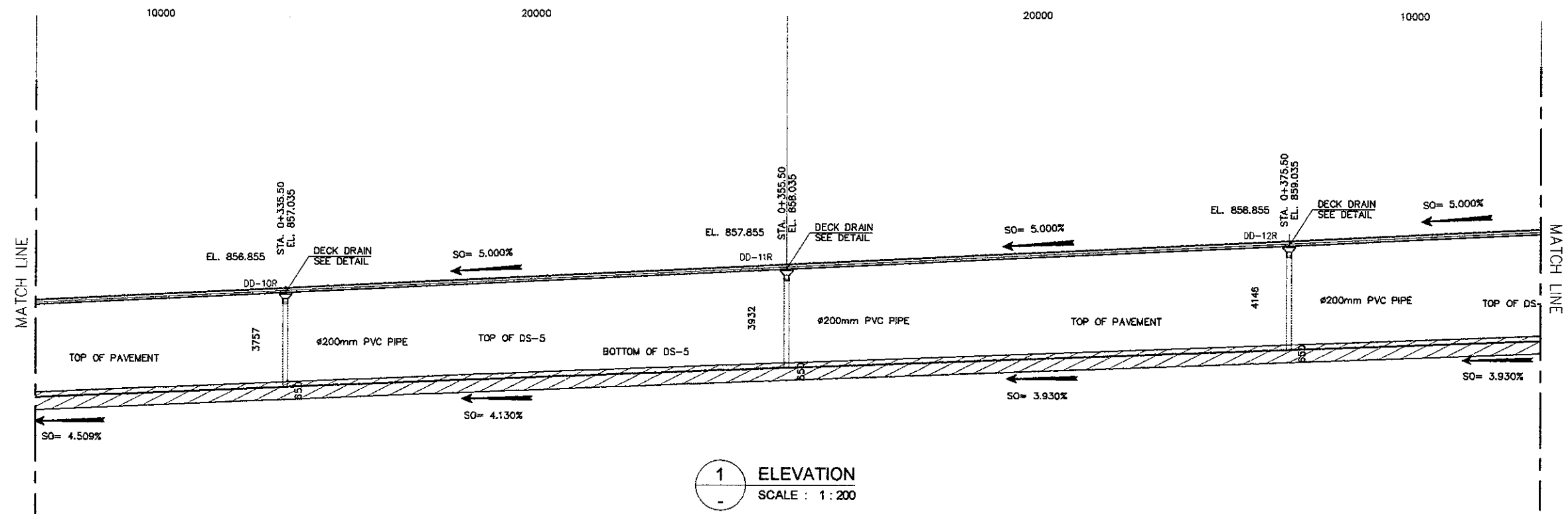
1 ELEVATION  
 SCALE : 1 : 200



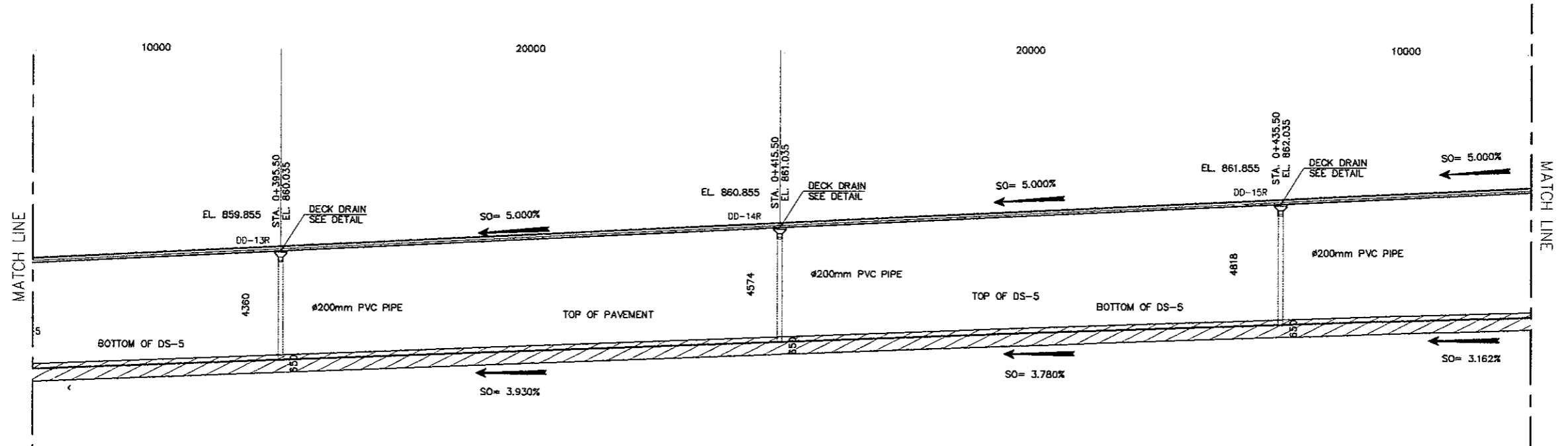
2 PLAN  
 SCALE : 1 : 200



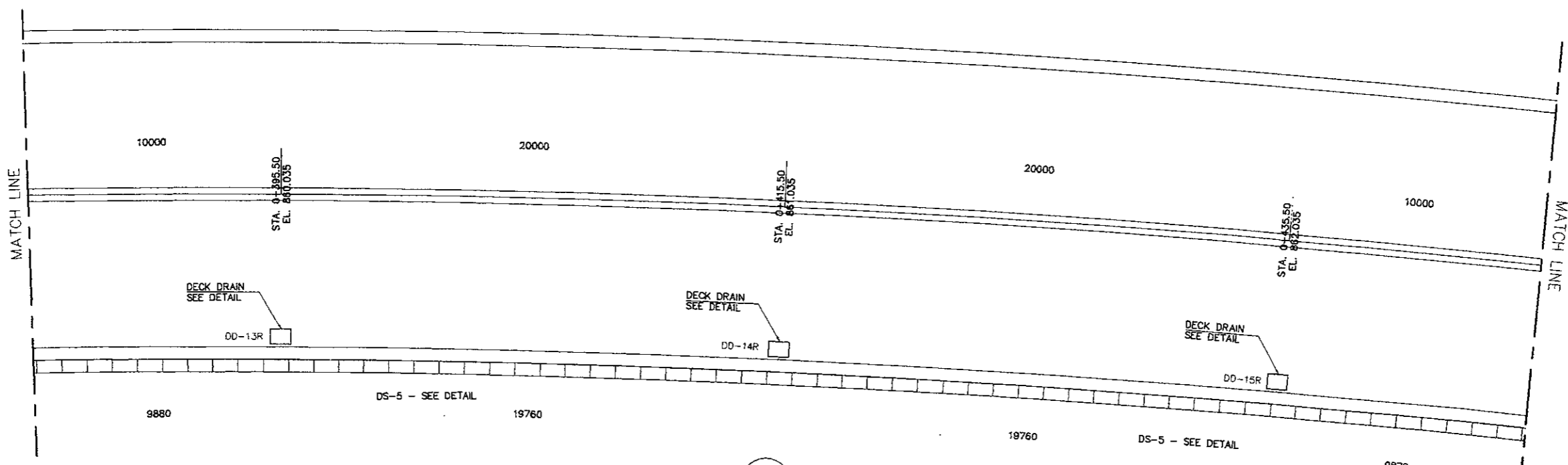
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

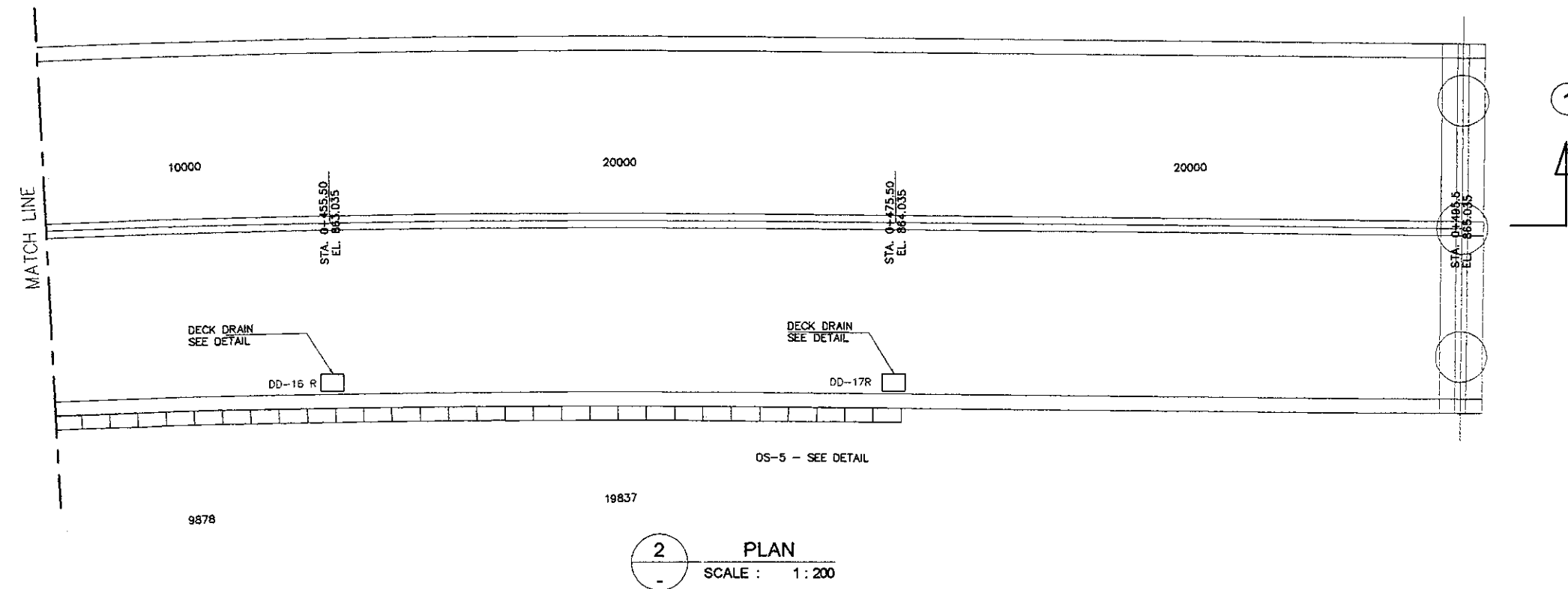
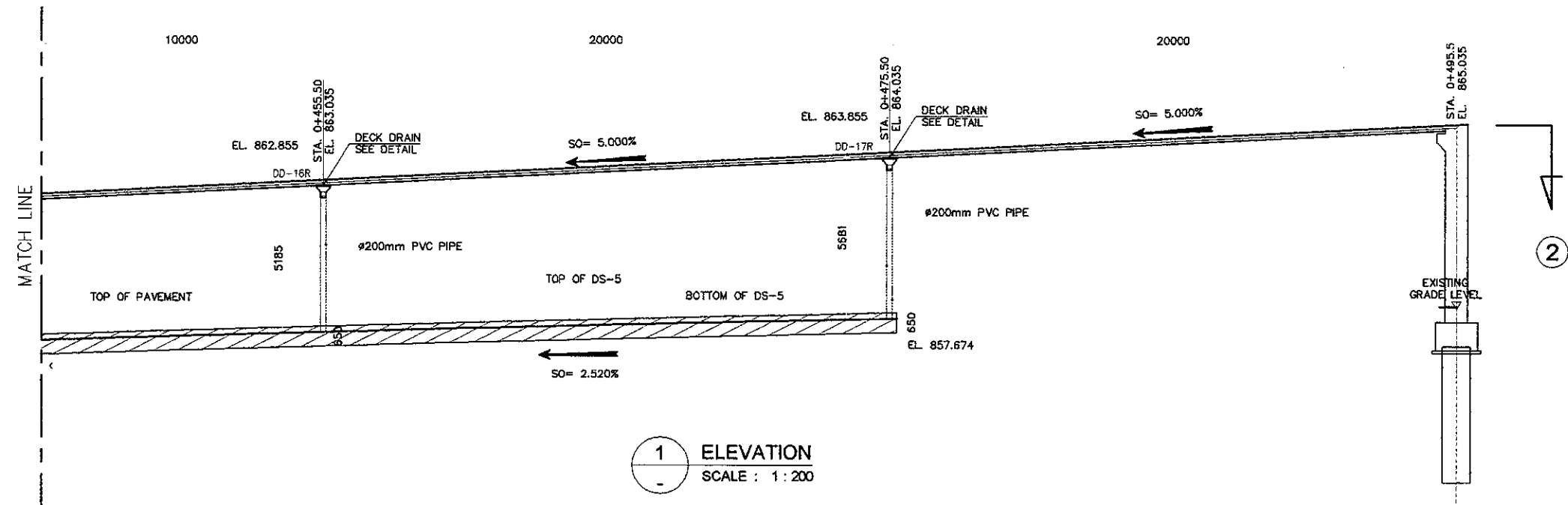


**1** ELEVATION
   
 SCALE : 1 : 200

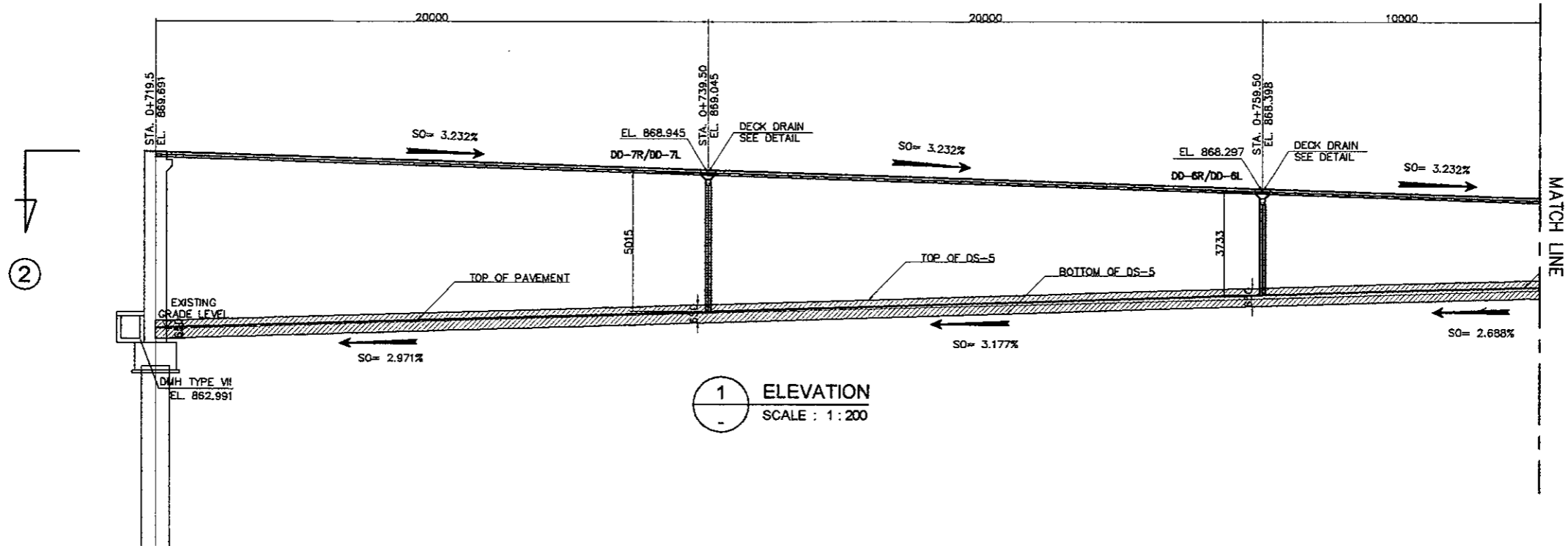


**2** PLAN
   
 SCALE : 1 : 200

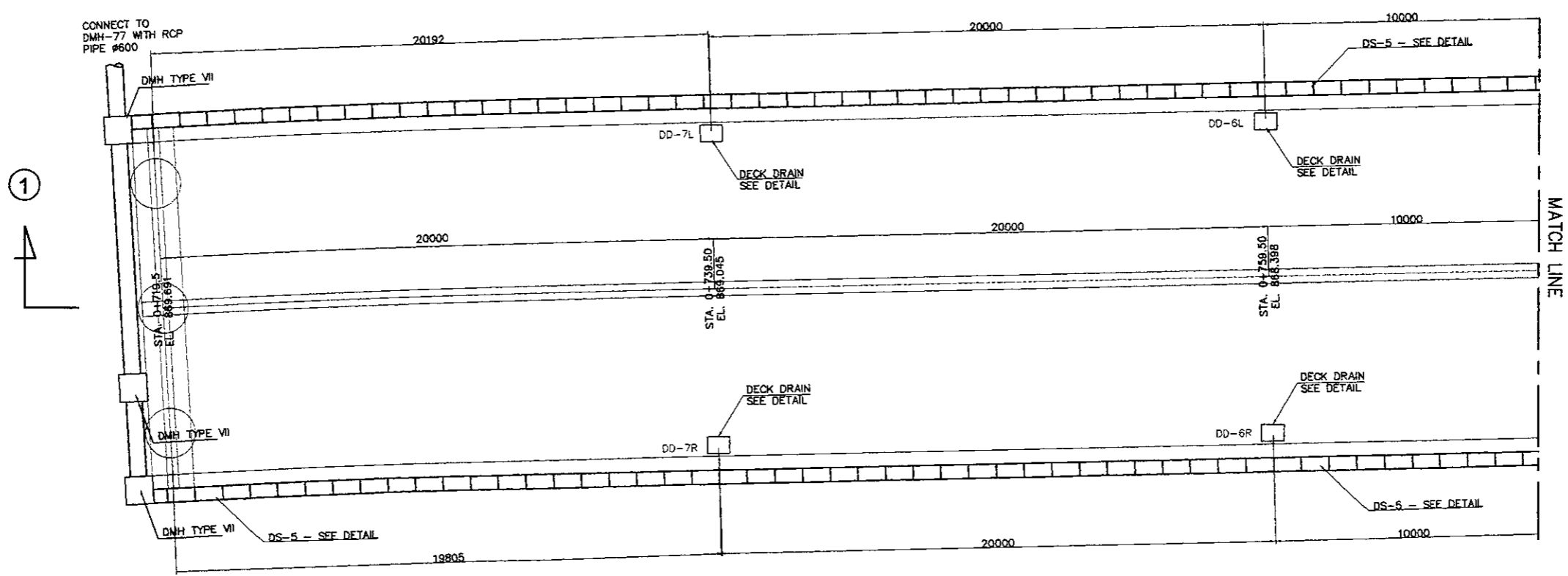
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



DESIGNED BY	CHECKED BY	SUBMITTED BY
Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI
Sign: _____	Sign: _____	Sign: _____
Date: _____	Date: _____	Date: _____

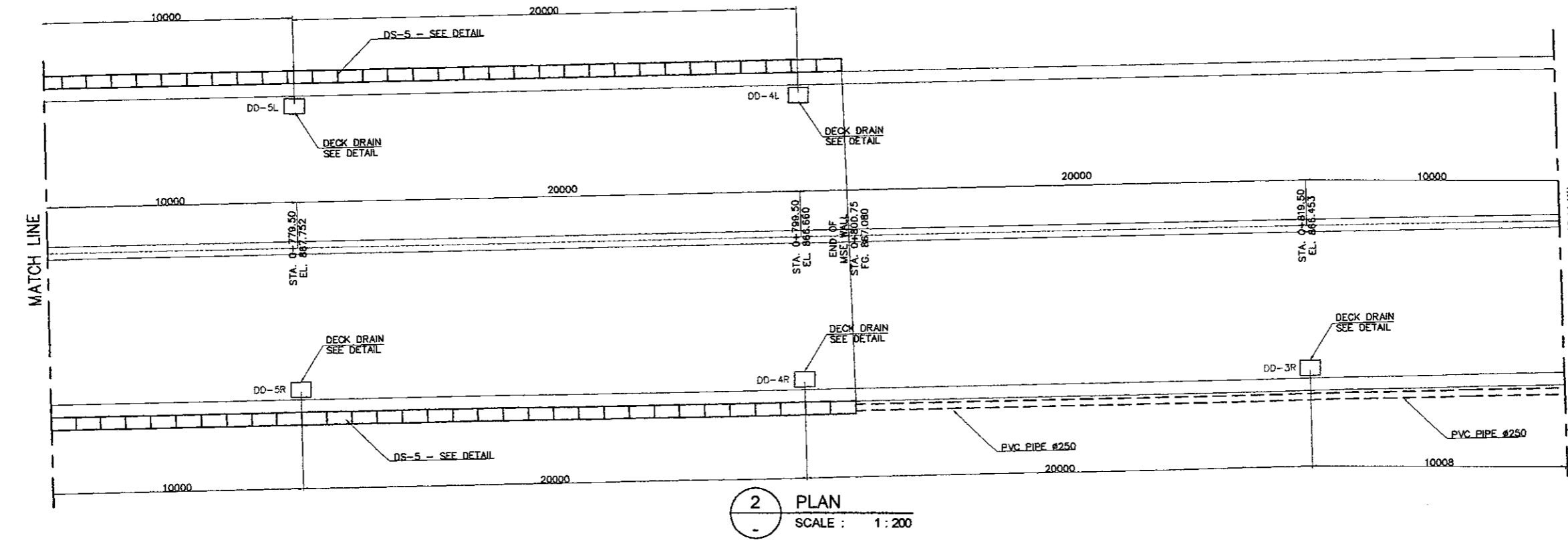
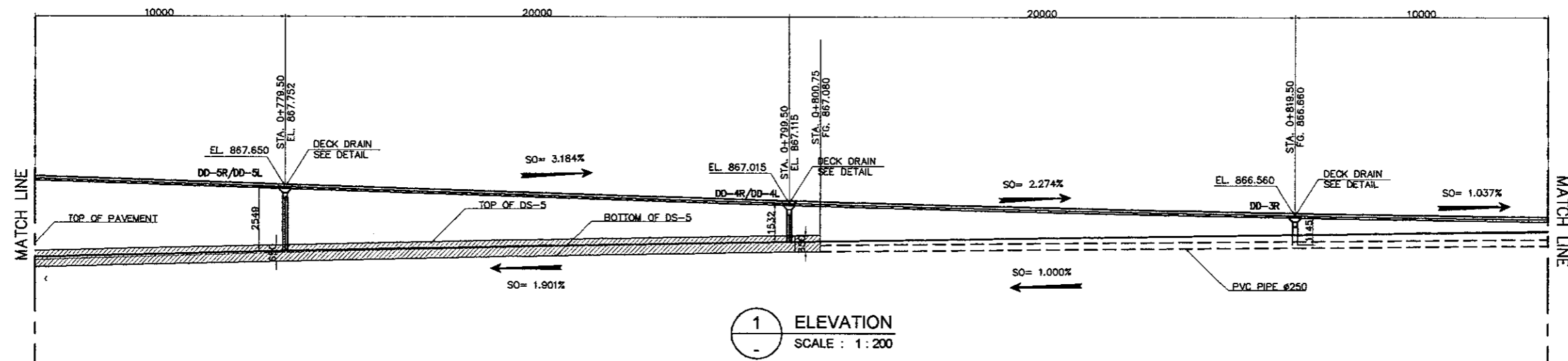


1 ELEVATION
   
 SCALE : 1 : 200

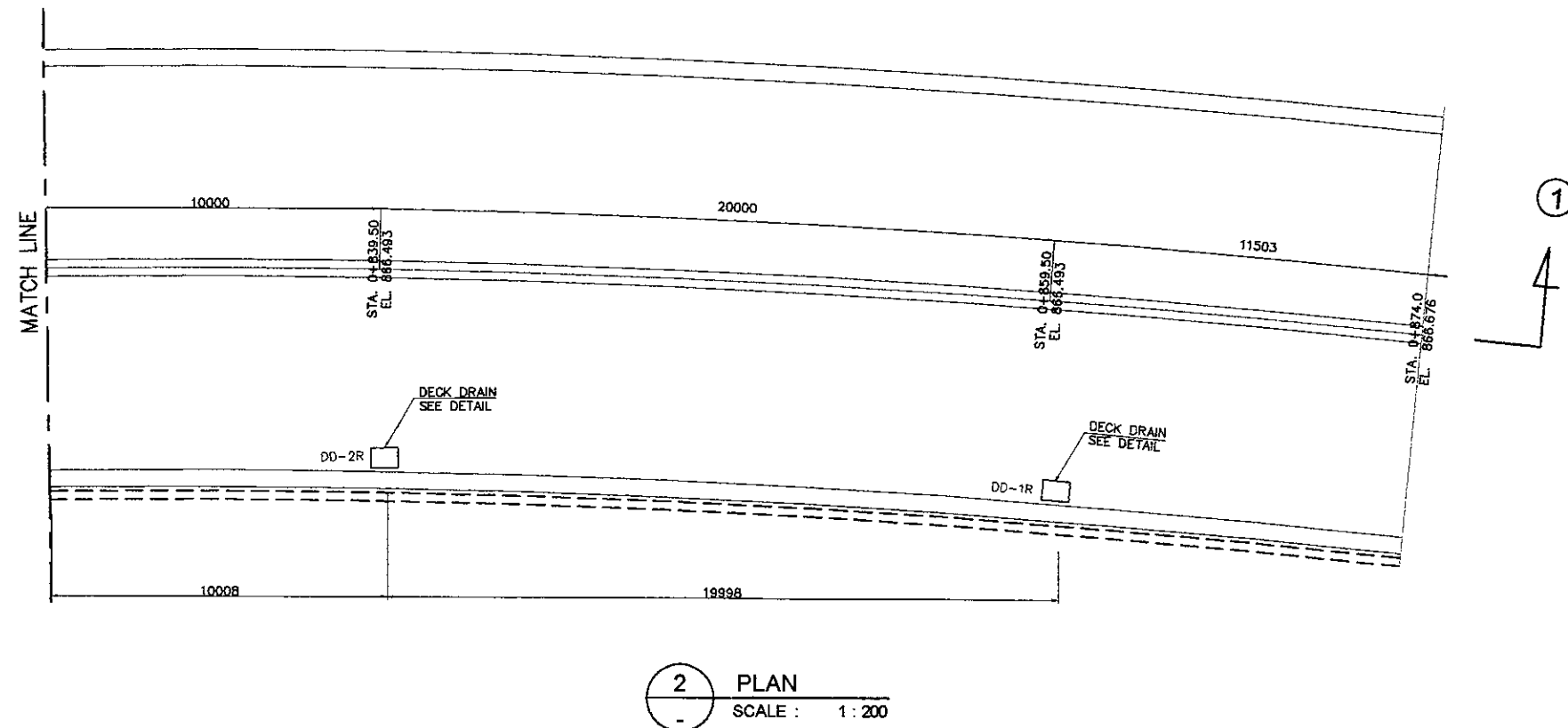
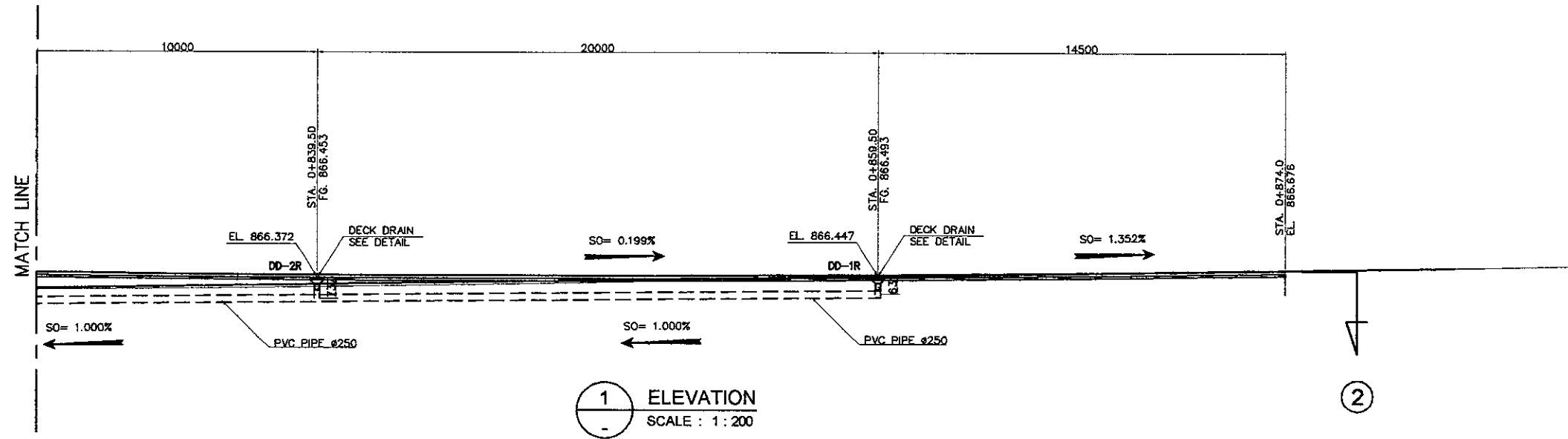


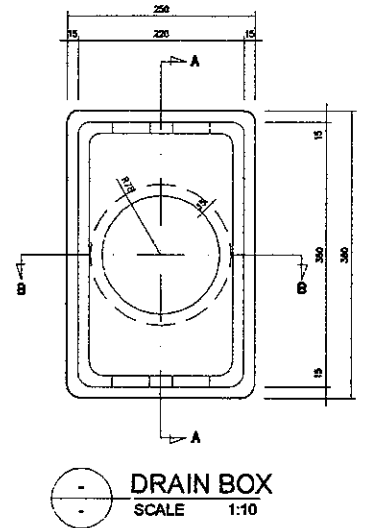
2 PLAN
   
 SCALE : 1 : 200

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

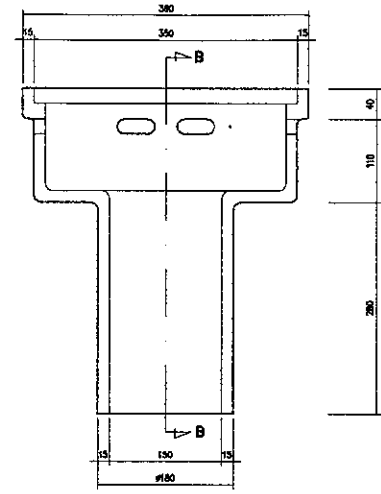


DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

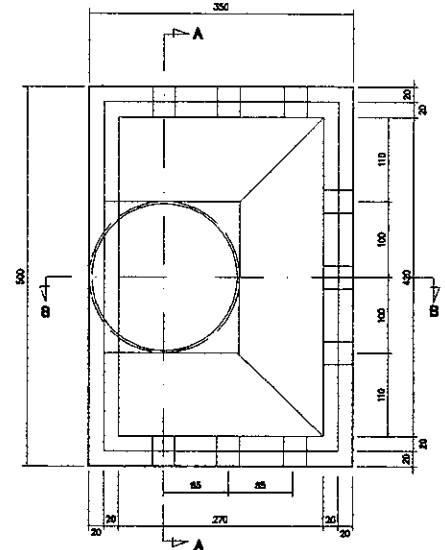




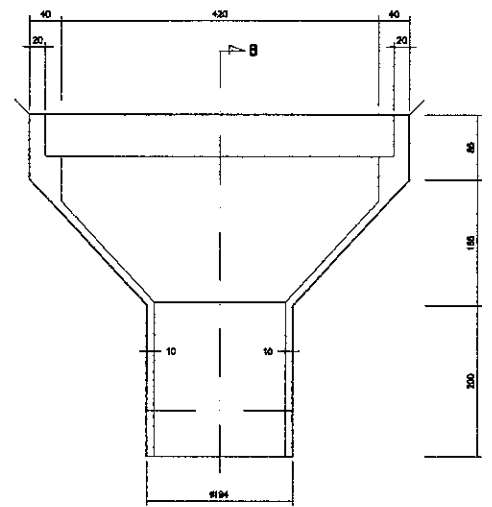
**DRAIN BOX**  
 SCALE 1:10



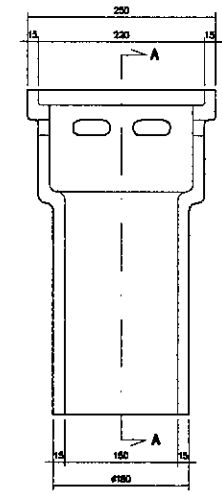
**SECTION A**  
 SCALE 1:10



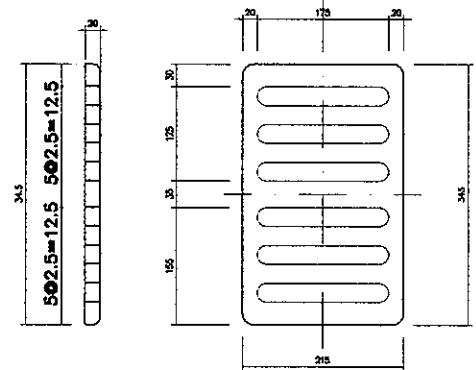
**DRAIN BOX**  
 SCALE 1:10



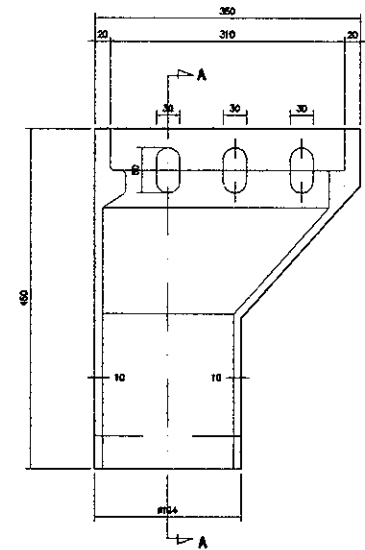
**SECTION A**  
 SCALE 1:10



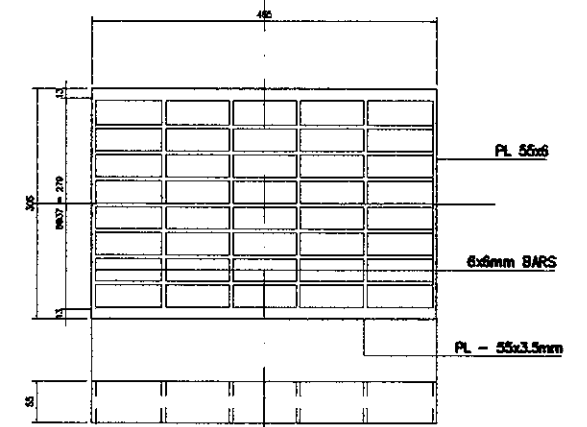
**SECTION B**  
 SCALE 1:10



**SCREEN**  
 SCALE 1:10



**SECTION B**  
 SCALE 1:10



**SCREEN**  
 SCALE 1:10

**LIST OF DECK DRAIN ( PER ONE )**

NO	NAME	QUALITY	EACH	WEIGHT
①	BOX	CAST IRON FC 25	1	40.9
②	SCREEN	SC 46	1	7.4
③	CHAIN	SS 41	1	0.1
④	WIRE NET	-	1	0.6
TOTAL WEIGHT				49.0 kg

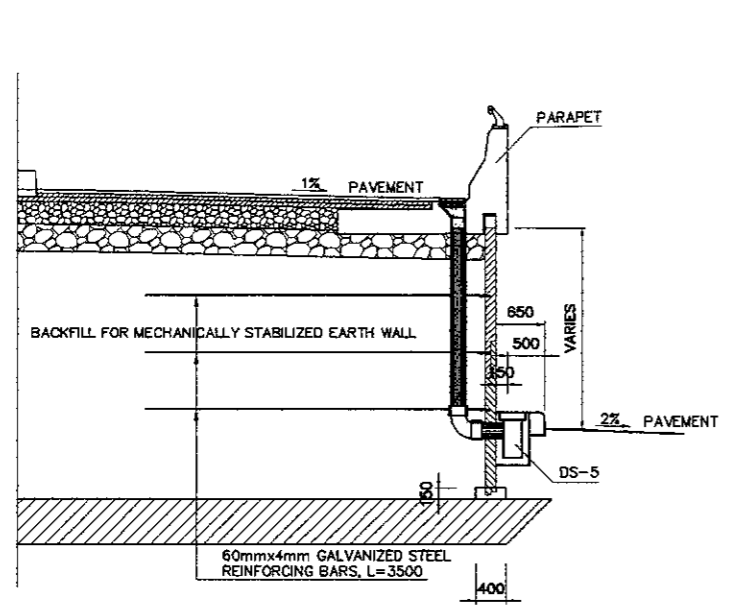
**DECK DRAIN TYPE 1**  
 SCALE 1:10

**LIST OF DECK DRAIN ( PER ONE )**

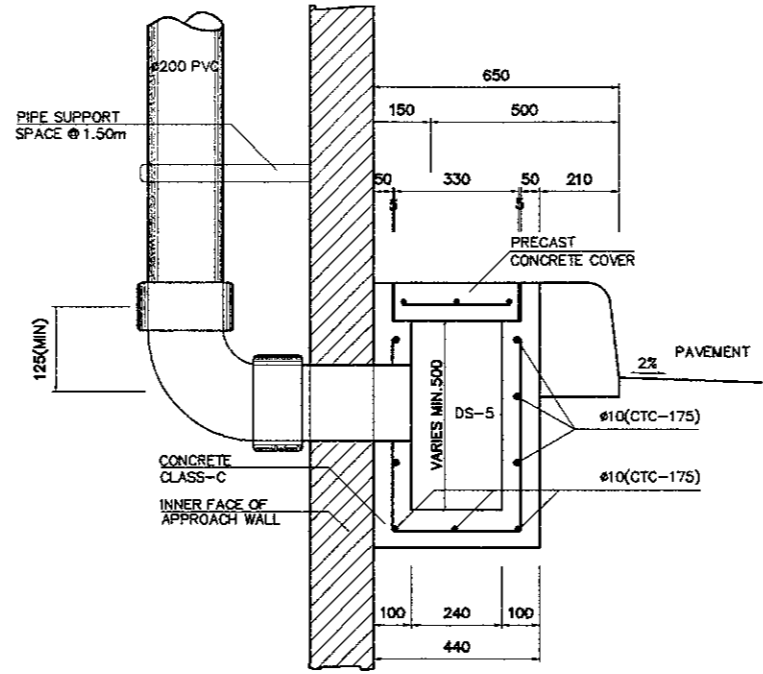
NO	NAME	QUALITY	EACH	WEIGHT
①	BOX	CAST IRON FC 25	1	
②	SCREEN	SC 46	1	
③	CHAIN	SS 41	1	
④	WIRE NET	-	1	
TOTAL WEIGHT				55.0 kg

**DECK DRAIN TYPE 2**  
 SCALE 1:10

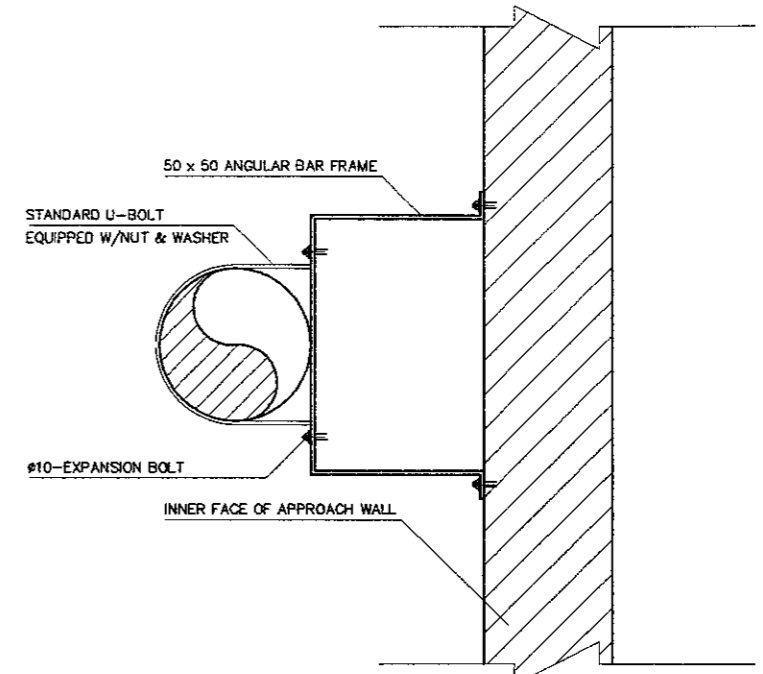
DESIGNED BY	CHECKED BY	SUBMITTED BY
Name R. UENO	Name T. OKUMURA	Name M. KIUCHI
Sign	Sign	Sign
Date	Date	Date



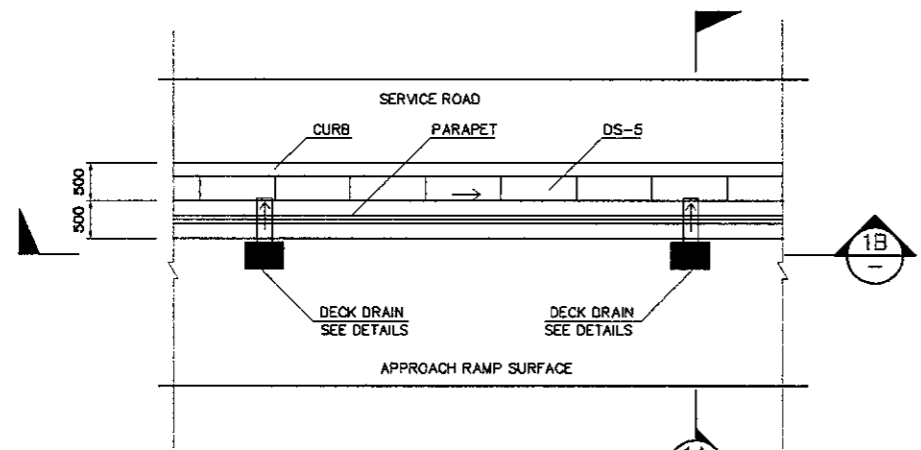
**1A ELEVATION**  
 SCALE 1:100



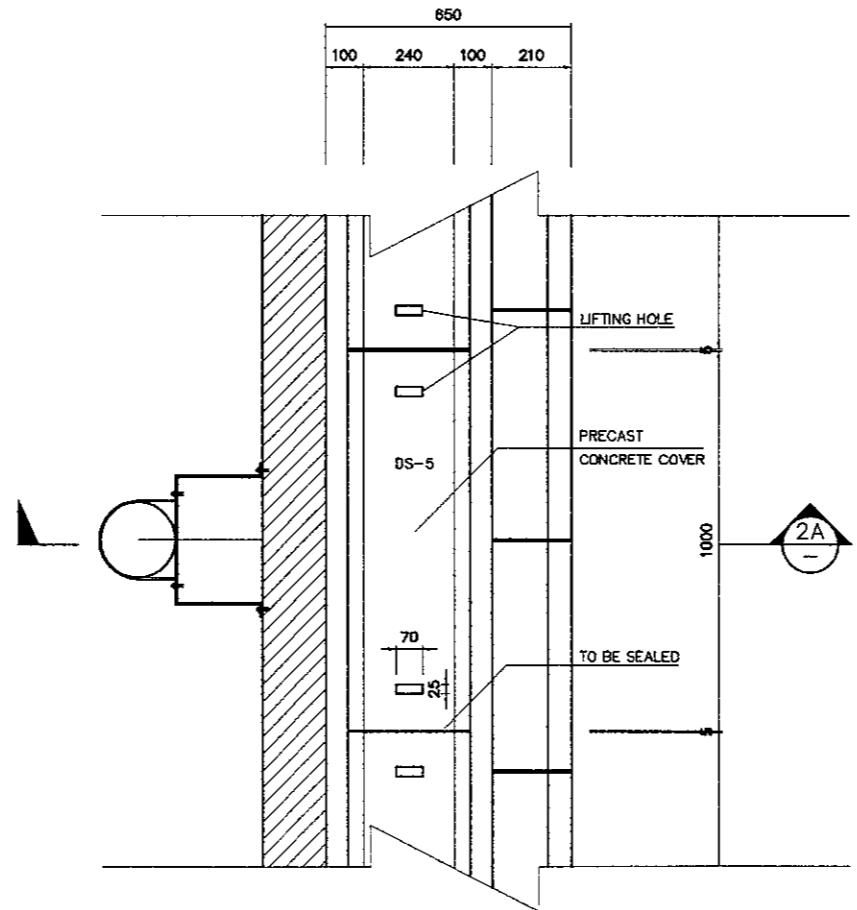
**2A DS-5 DETAILS**  
 SCALE 1:20



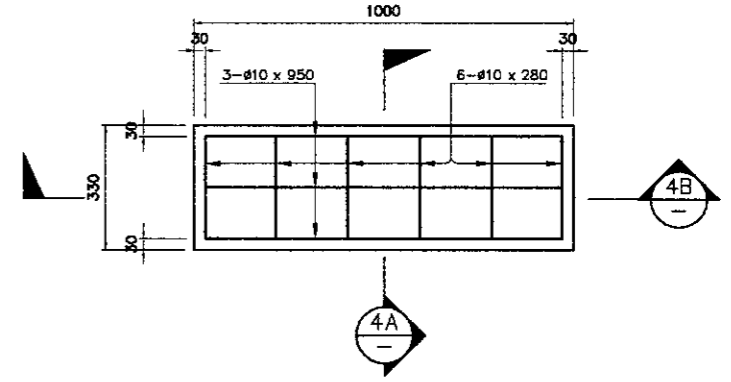
**3 PIPE SUPPORT DETAIL**  
 NO TO SCALE



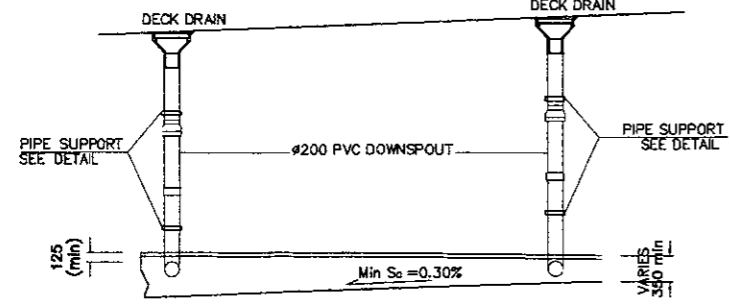
**1 PARTIAL PLAN**  
 SCALE 1:100



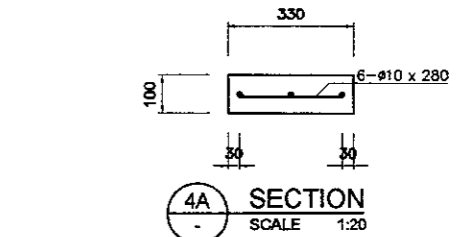
**2 PLAN**  
 SCALE 1:20



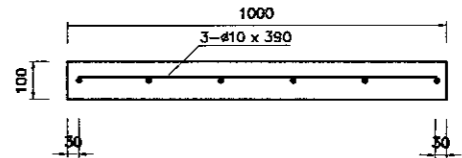
**4 PLAN AT DS-5 COVER**  
 SCALE 1:20



**1B SECTION**  
 SCALE 1:100



**4A SECTION**  
 SCALE 1:20



**4B SECTION**  
 SCALE 1:20





JAPAN INTERNATIONAL  
COOPERATION AGENCY



DIRECTORATE GENERAL OF HIGHWAY  
MINISTRY OF PUBLIC WORKS  
REPUBLIC OF INDONESIA

# STRUCTURES

 KATAHIRA & ENGINEERS INTERNATIONAL



JAPAN INTERNATIONAL  
COOPERATION AGENCY

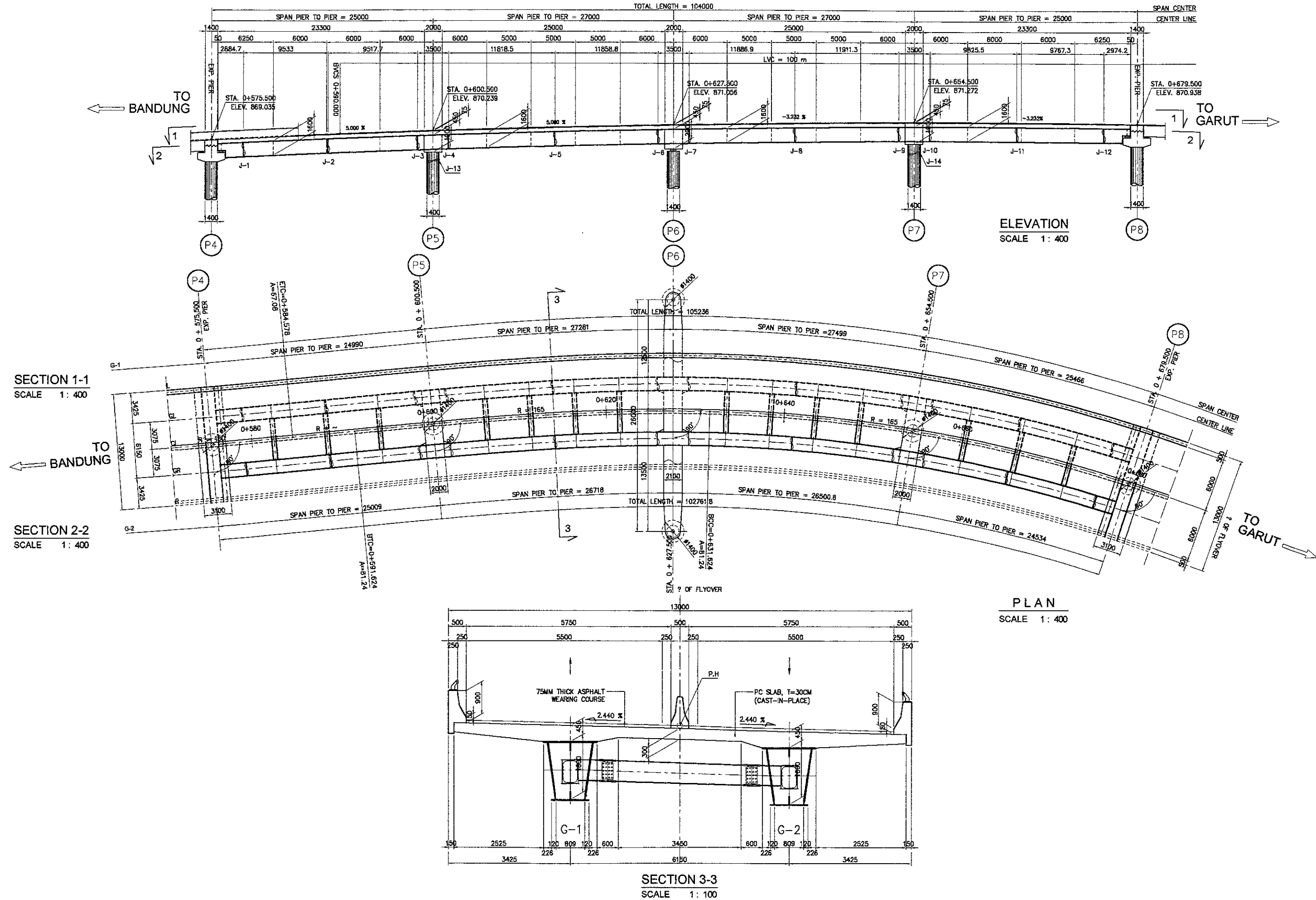


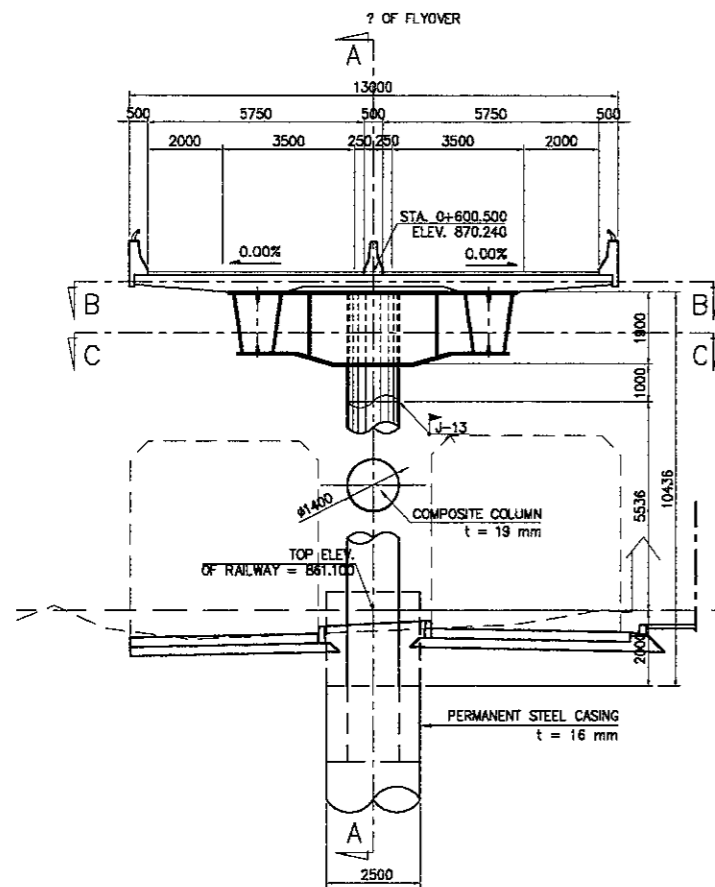
DIRECTORATE GENERAL OF HIGHWAY  
MINISTRY OF PUBLIC WORKS  
REPUBLIC OF INDONESIA

# STEEL SUPERSTRUCTURE

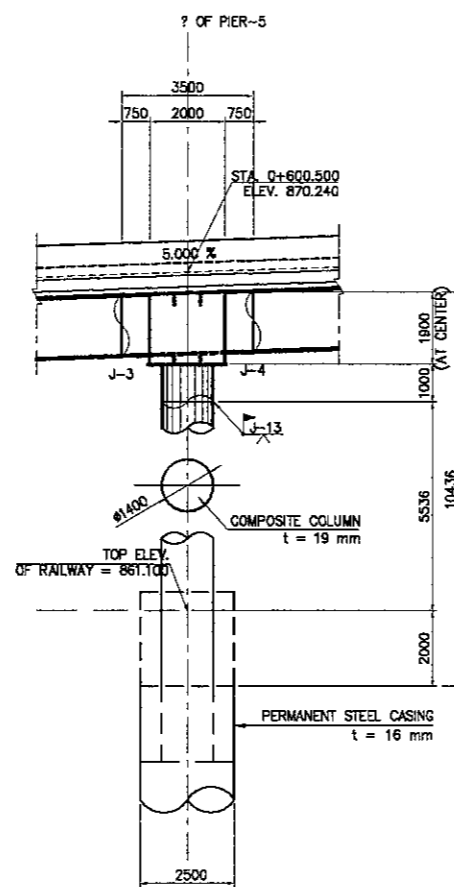
 KATAHIRA & ENGINEERS INTERNATIONAL

DESIGNED BY	CHECKED BY	SUBMITTED BY
Name S. MATSUI	Name T. OKUMURA	Name M. KIUCHI
Sign	Sign	Sign
Date	Date	Date

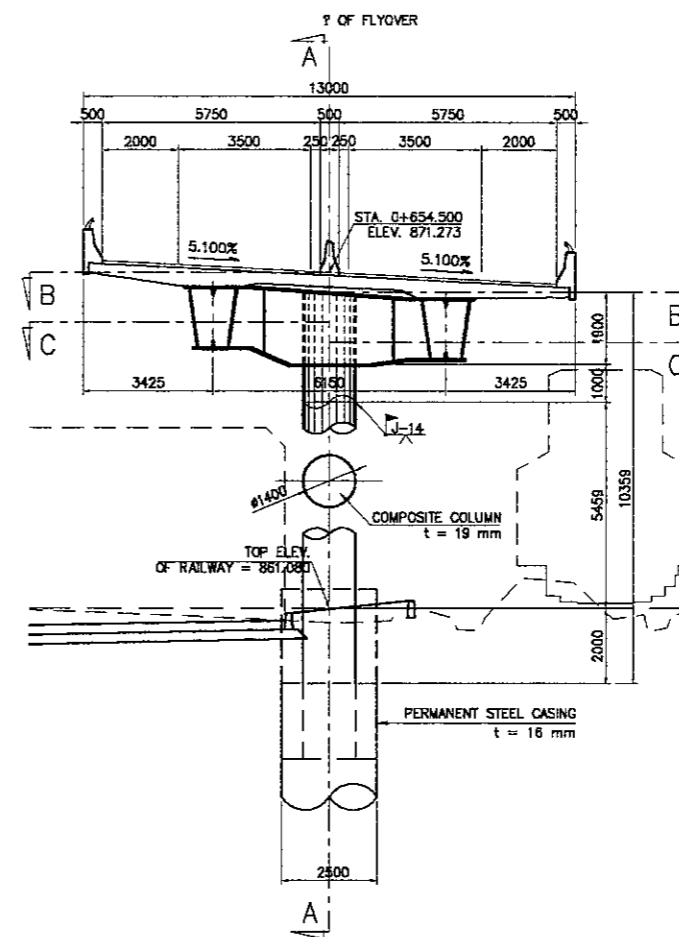




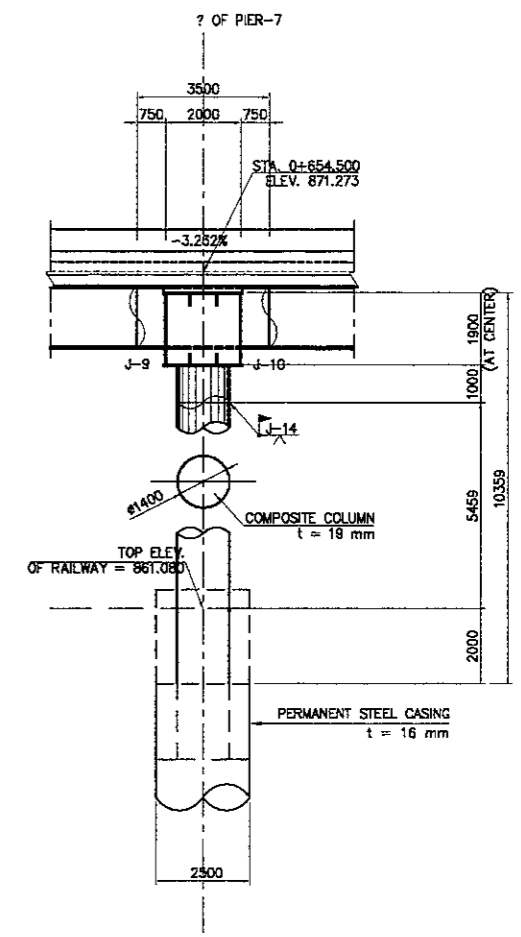
SECTION OF PIER - 5  
 SCALE 1 : 200



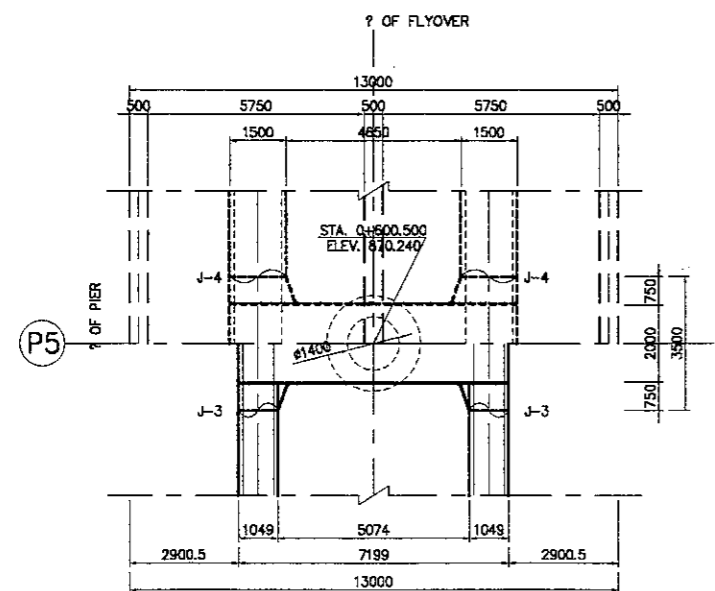
SECTION A-A  
 SCALE 1 : 200



SECTION OF PIER - 7  
 SCALE 1 : 200

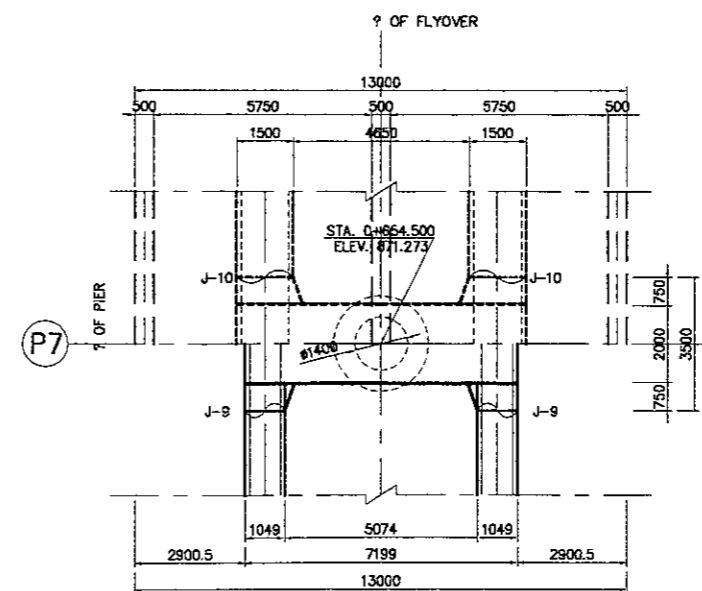


SECTION A-A  
 SCALE 1 : 200



SECTION B-B  
 SCALE 1 : 200

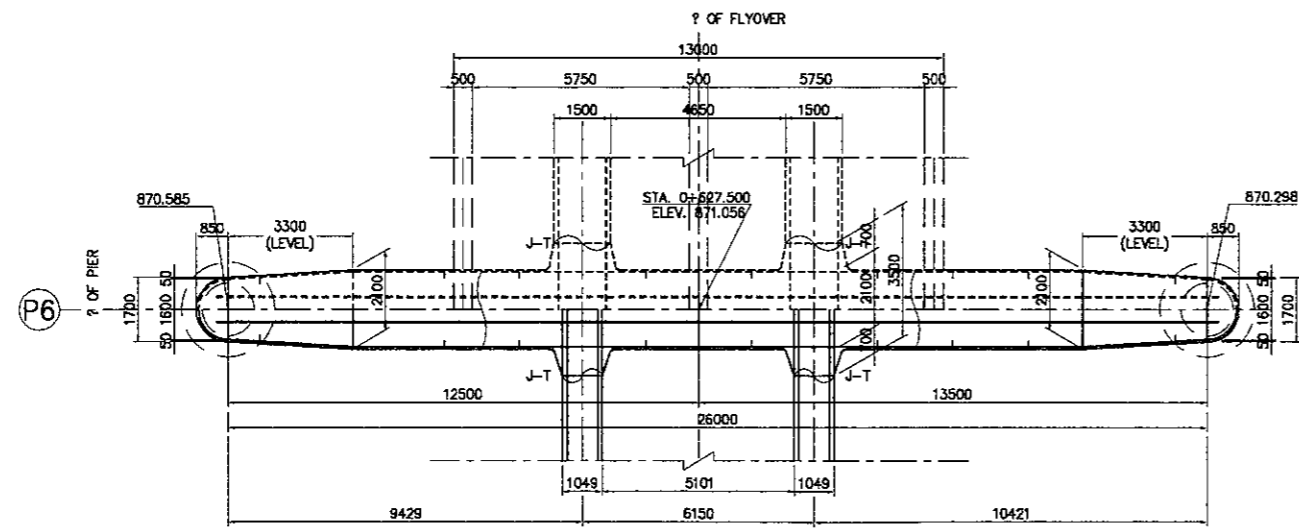
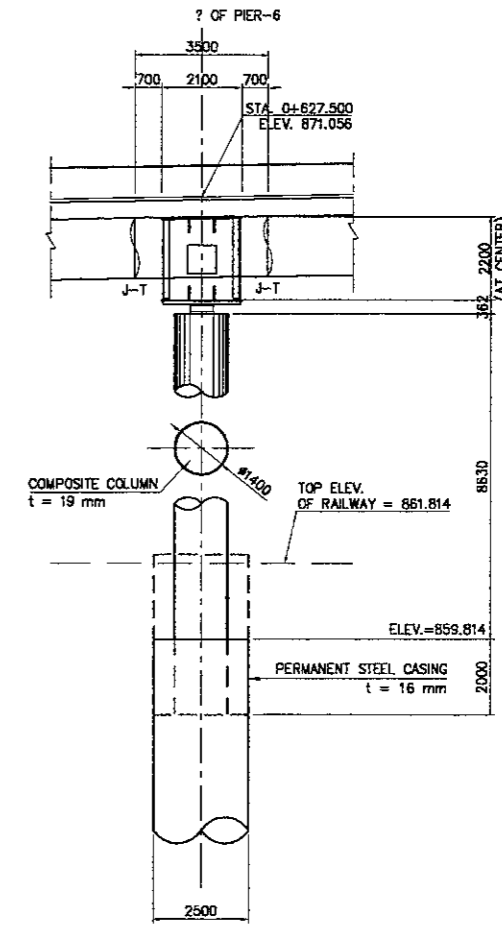
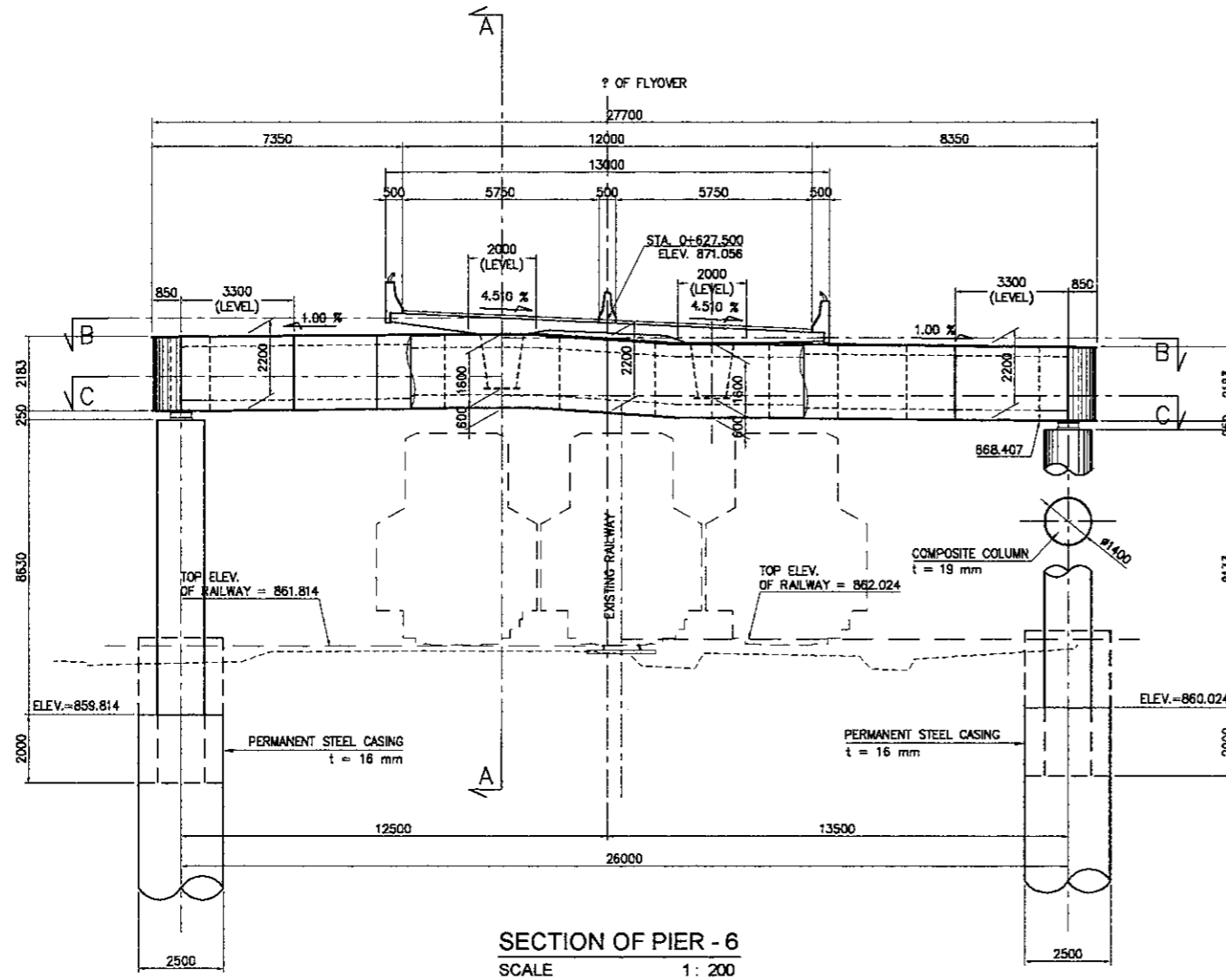
SECTION C-C  
 SCALE 1 : 200



SECTION B-B  
 SCALE 1 : 200

SECTION C-C  
 SCALE 1 : 200

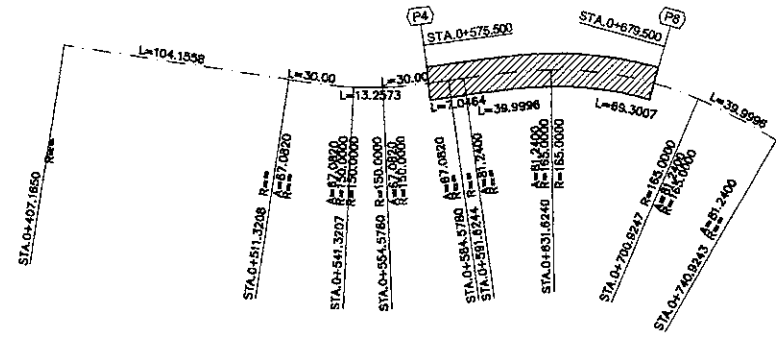
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	S. MATSUI	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



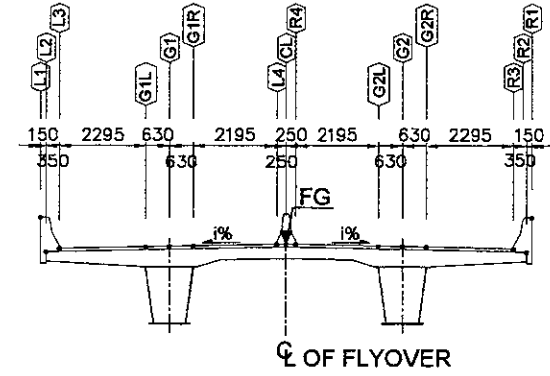
**SECTION C-C**  
 SCALE 1 : 200



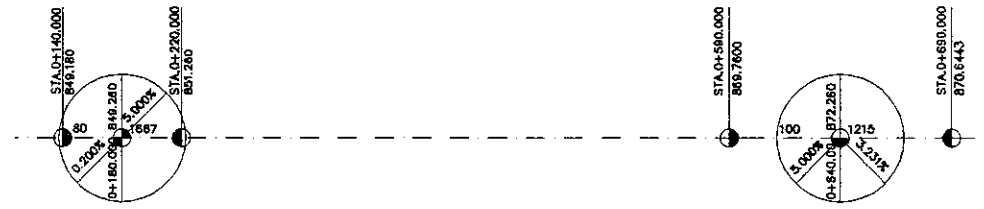
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	S. MATSUI	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



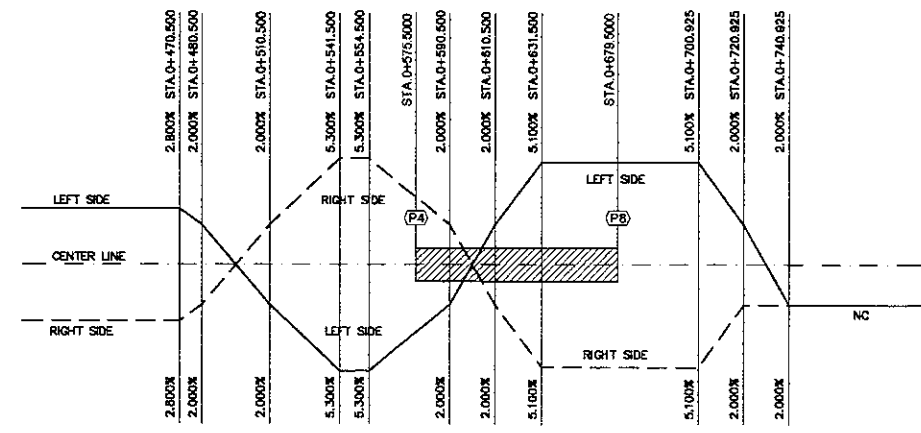
KEY PLAN



SECTION VIEW  
 SCALE 1:200



ELEMENT OF VERTICAL ALIGNMENT  
 NOT TO SCALE



SUPER ELEVATION  
 NOT TO SCALE

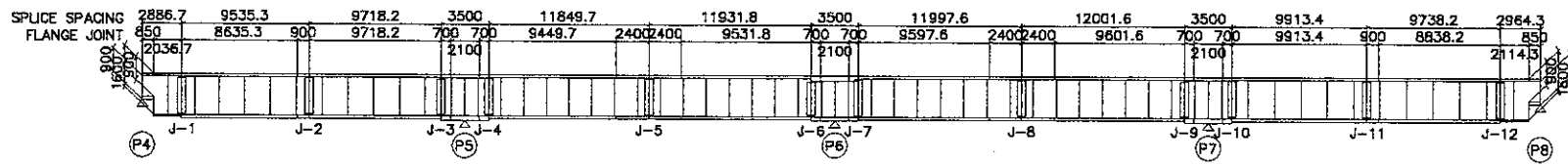




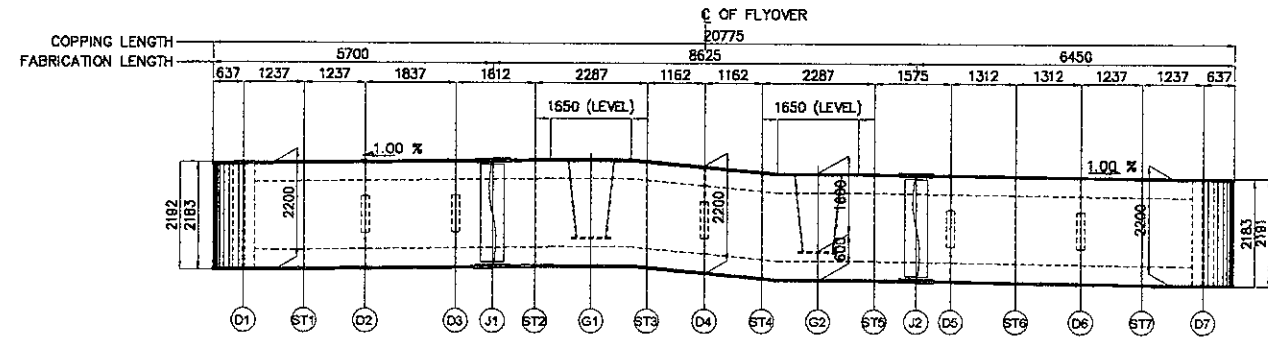
MEMBER	MAIN GIRDER G1										
JOINT NO.	BLOCK-1	BLOCK-2	BLOCK-3	BLOCK-5	BLOCK-6	BLOCK-8	BLOCK-9	BLOCK-11	BLOCK-12	BLOCK-13	TOTAL
PER MEMBER	4,434	8,291	8,658	10,491	10,408	10,598	10,582	8,823	8,476	4,547	
SET	1	1	1	1	1	1	1	1	1	1	10
GRAND TOTAL	4,434	8,291	8,658	10,491	10,408	10,598	10,582	8,823	8,476	4,547	85,308

MEMBER	JOINT G1												
JOINT NO.	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	TOTAL
PER MEMBER	1,574.5	857.5	916.5	860.0	792.0	420.0	420.0	791.0	856.5	913.0	855.5	1,470.5	
SET	1	1	1	1	1	1	1	1	1	1	1	1	12
GRAND TOTAL	1,574.5	857.5	916.5	860.0	792.0	420.0	420.0	791.0	856.5	913.0	855.5	1,470.5	10,727.0

MEMBER	PORTAL TYPE P6			
JOINT NO.	BLOCK-1	BLOCK-2	BLOCK-3	TOTAL
PER MEMBER	22,242.70	34,679.80	23,842.40	
SET	1	1	1	3
GRAND TOTAL	22,242.70	34,679.80	23,842.40	80,764.90



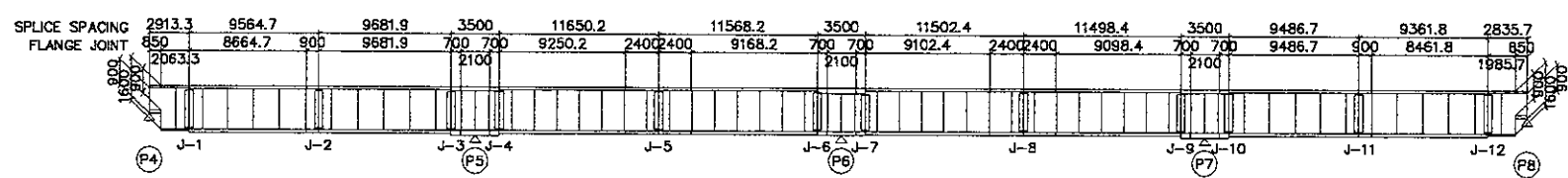
**ARRANGEMENT DIAGRAM OF GIRDER G1**  
 NOT TO SCALE



**PORTAL TYPE OF GIRDER P6**  
 NOT TO SCALE

MEMBER	MAIN GIRDER G2										
JOINT NO.	BLOCK-1	BLOCK-2	BLOCK-3	BLOCK-5	BLOCK-6	BLOCK-8	BLOCK-9	BLOCK-11	BLOCK-12	BLOCK-13	TOTAL
PER MEMBER	2,364	8,312	8,629	10,293	10,081	10,131	10,125	8,436	8,144	2,500	
SET	1	1	1	1	1	1	1	1	1	1	10
GRAND TOTAL	2,364	8,312	8,629	10,293	10,081	10,131	10,125	8,436	8,144	2,500	78,015

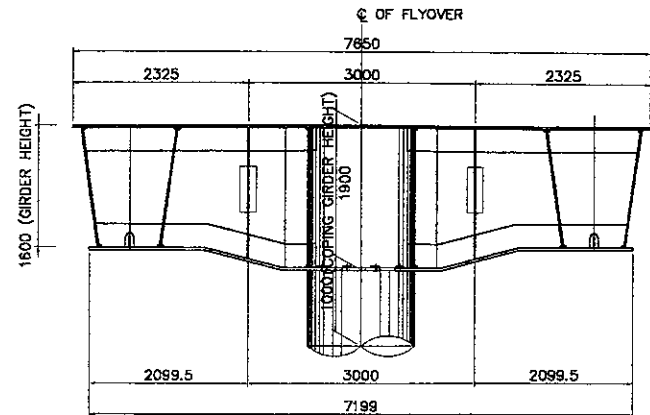
MEMBER	JOINT G2												
JOINT NO.	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	TOTAL
PER MEMBER	1,557.5	857.5	915.0	858.5	792.0	420.0	420.0	791.0	856.5	913.0	855.5	1,477.5	
SET	1	1	1	1	1	1	1	1	1	1	1	1	12
GRAND TOTAL	1,557.5	857.5	915.0	858.5	792.0	420.0	420.0	791.0	856.5	913.0	855.5	1,477.5	10,714.0



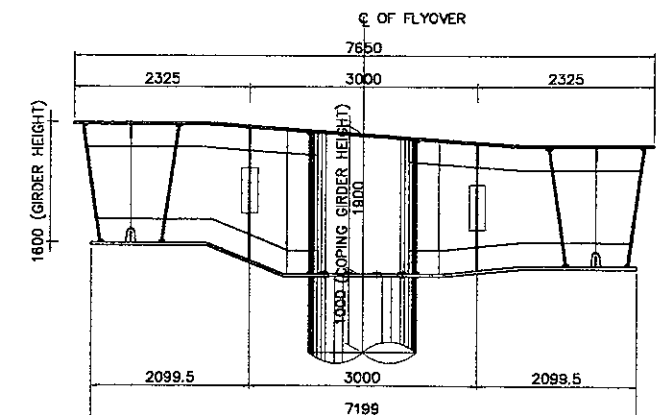
**ARRANGEMENT DIAGRAM OF GIRDER G2**  
 NOT TO SCALE

MEMBER	GIRDER P5-P7		
PIER	P5	P7	TOTAL
PER MEMBER	26,522.40	26,723.90	
SET	1	1	2
GRAND TOTAL	26,522.40	26,723.90	53,246.30

MEMBER	CROSS BEAM								
JOINT NO.	FI-1	FI-2	FI-3	FI-4	FI-5	FI-6	FI-7	FI-8	TOTAL
PER MEMBER	1,600	1,599	1,597	1,597	1,599	1,601	1,602	1,606	
SET	1	1	1	1	1	1	1	7	14
GRAND TOTAL	1,600	1,599	1,597	1,597	1,599	1,601	1,602	11,242	22,437

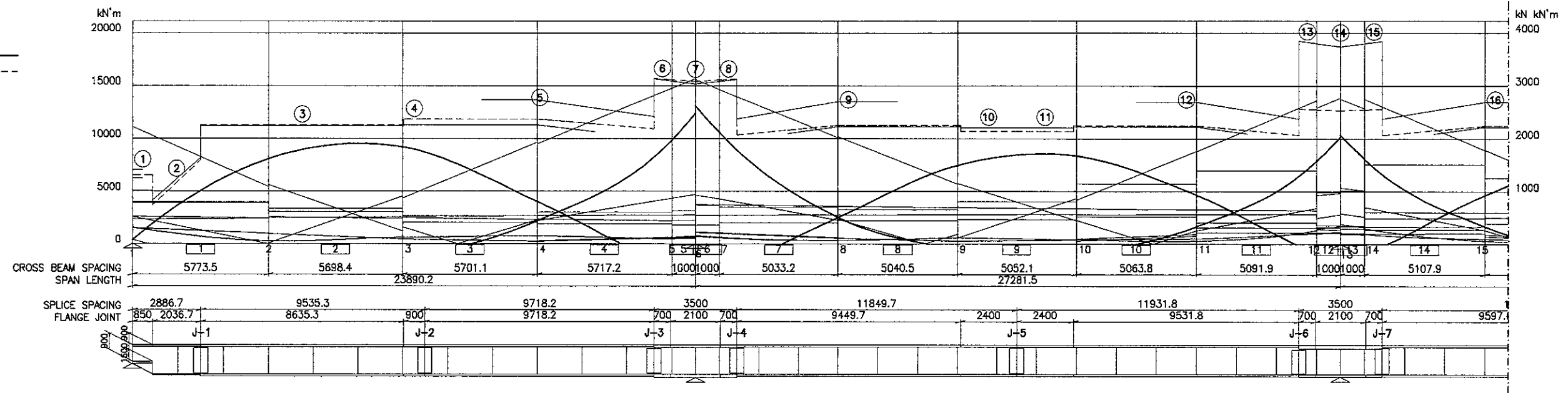


**T-TYPE OF GIRDER P5**  
 NOT TO SCALE



**T-TYPE OF GIRDER P7**  
 NOT TO SCALE

G-1  
 REQUIRED CAPACITY

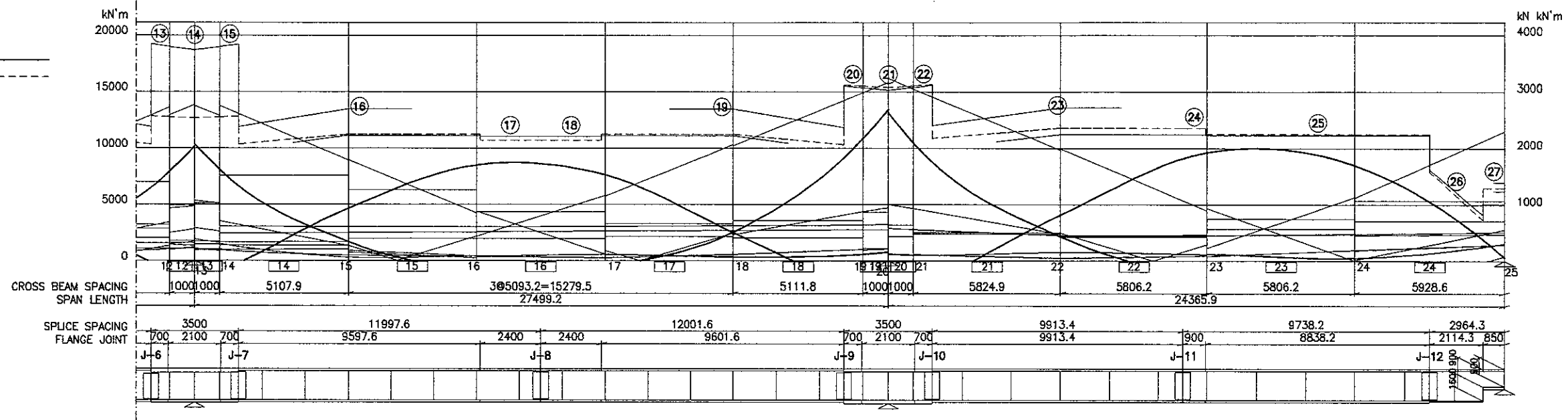


SECTION ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																								
U-FLG, W=1500 MM	18	18	21	21	21	27	27	27	21	21	21	21	40	40	40																								
U-FLG QUALITY	SM 490YB																																						
U-FLG NOS	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1																								
U-FLG WIDTH	190	190	190	190	190	190	0	190	190	190	190	190	190	0	190																								
U-FLG LOG. RIB THICKNESS	22	22	22	22	22	22	0	22	22	22	22	22	22	0	22																								
U-FLG QUALITY	SM 490YB																																						
L-FLG NOS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
L-FLG WIDTH	0	0	0	140	140	140	140	140	140	140	140	140	140	140	140																								
L-FLG LOG. RIB THICKNESS	0	0	0	16	16	16	16	16	16	16	16	16	16	16	16																								
L-FLG QUALITY	SM 490YA																																						
L-FLG, W=1049 MM	25	13	24	24	24	38	38	38	22	22	22	22	28	28	28																								
L-FLG QUALITY	SM 490YB																																						
U-FLG STRESS	σ	-58	57	-88	-122	-110	-94	-157	-154	-153	-147	-147	156	121	143	143	184	200	155	155	130	170	-128	-129	-142	-142	-142	-138	-137	142	93	111	111	142	140	110	110	82	
U-FLG STRESS	σ <sub>a</sub>	210	210	172	178	158	181	175	176	177	177	210	210	210	210	210	210	210	210	210	210	210	177	177	176	176	175	175	210	210	210	210	210	210	210	210	210	210	
U-FLG STRESS	σ <sub>a-σ</sub>	152	153	84	56	48	87	19	22	23	29	54	89	67	67	26	10	55	55	80	40	49	48	34	34	34	37	38	68	117	99	99	68	70	100	100	118		
L-FLG STRESS	σ	52	-52	95	165	157	115	193	190	182	174	174	-174	-123	-144	-144	-183	-201	-159	-158	-136	-202	160	167	184	184	185	180	172	-161	-129	-153	-154	-200	-202	-155	-155	-130	
L-FLG STRESS	σ <sub>a</sub>	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	
L-FLG STRESS	σ <sub>a-σ</sub>	158	158	115	45	53	95	17	20	28	36	36	87	66	66	27	9	51	51	74	8	50	43	26	26	25	30	38	49	81	57	56	10	8	55	55	80		
WEB SHEAR STRESS	τ	62	26	58	114	56	55	25	16	16	13	13	78	64	67	67	71	25	24	24	23	27	43	43	35	35	31	27	69	68	71	71	37	49	50	48			
WEB SHEAR STRESS	τ <sub>σ</sub>	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120		
WEB SHEAR STRESS	COMBINED	0.30	0.09	0.32	1.08	0.64	0.42	0.82	0.77	0.71	0.64	0.64	0.88	0.48	0.63	0.62	0.92	0.85	0.55	0.55	0.40	0.90	0.62	0.67	0.77	0.77	0.73	0.67	0.72	0.53	0.68	0.69	1.03	0.93	0.64	0.64	0.49		
SECTION GOVERN	LEFT	LEFT	RIGHT	LEFT	J-1 LEFT	MAX.	RIGHT	LEFT	RIGHT	J-2	J-3 LEFT	RIGHT	LEFT	MAX.L	MAX.R	RIGHT	LEFT	RIGHT	J-4 RIGHT	LEFT	J-5 LEFT	MAX.	RIGHT	LEFT	J-6 LEFT	RIGHT	LEFT	MAX.L	MAX.R	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT			
NET U-FLG STRESS, σ																																							
NET L-FLG STRESS, σ					193					196																													

W = WIDTH  
 H = HEIGHT  
 TH = THICKNESS  
 STRESS IN N/mm<sup>2</sup>

MAX. = MAXIMUM  
 MAX.R = MAXIMUM RIGHT  
 MAX.L = MAXIMUM LEFT

G-1  
 REQUIRED CAPACITY

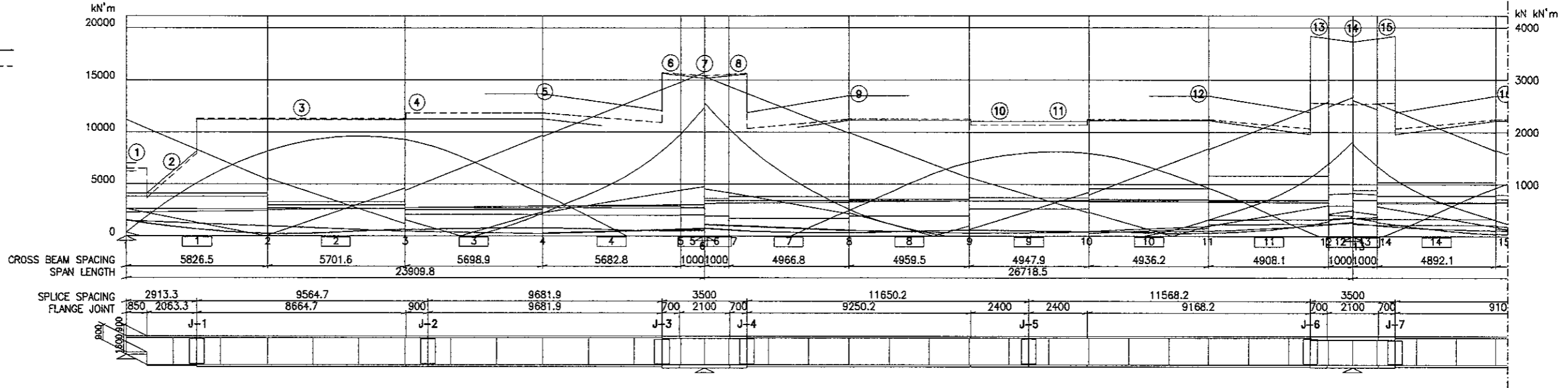


SECTION ID	14	15	16	17	18	19	20	21	22	23	24	25	26	27																					
U-FLG, W=1500 MM	40	40	21	21	21	21	27	27	27	21	21	21	18	18																					
U-FLG QUALITY	SM 570	SM 570	SM 490YB	SM 490YB	SM 490YB	SM 490YB	SM 490YB	SM 490YB	SM 490YB	SM 490YB	SM 490YB	SM 490YB	SM 490YB	SM 490YB																					
U-FLG LOG. RIB	0	190	190	190	190	190	190	0	190	190	190	190	190	190																					
LWEB-PL	1575.4	1575.4	1575.4	1575.4	1575.4	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6																					
RWEB-PL	1575.4	1575.4	1575.4	1575.4	1575.4	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6	1594.6																					
L-FLG LOG. RIB	140	140	140	140	140	140	140	140	140	140	140	140	140	140																					
L-FLG, W=1049 MM	28	28	22	22	22	22	38	38	38	24	24	24	13	25																					
U-FLG STRESS	111	142	140	110	110	92	141	-139	-140	-144	-144	-130	-130	174	133	159	158	204	193	151	151	128	165	-152	-152	-159	-160	-162	-97	-113	-120	-87	-55	59	
L-FLG STRESS	-154	-200	-202	-155	-155	-130	-162	175	183	187	186	169	161	-205	-138	-162	-162	-205	-195	-154	-154	-131	-187	180	180	188	197	201	119	163	164	95	49	-54	
WEB SHEAR STRESS	71	71	37	49	50	48	48	28	23	20	20	11	11	81	67	70	76	27	26	25	31	34	34	30	30	30	30	30	31	32	59	30	32	62	
COMBINED	0.69	1.03	0.93	0.64	0.64	0.49	0.69	0.68	0.74	0.77	0.75	0.75	0.61	0.56	1.16	0.60	0.76	0.76	1.13	0.81	0.52	0.52	0.38	0.78	0.73	0.73	0.79	0.85	0.90	0.36	0.63	0.75	0.23	0.11	0.31

W = WIDTH  
 H = HEIGHT  
 TH = THICKNESS  
 STRESS IN N/mm<sup>2</sup>

MAX. = MAXIMUM  
 MAX.R = MAXIMUM RIGHT  
 MAX.L = MAXIMUM LEFT

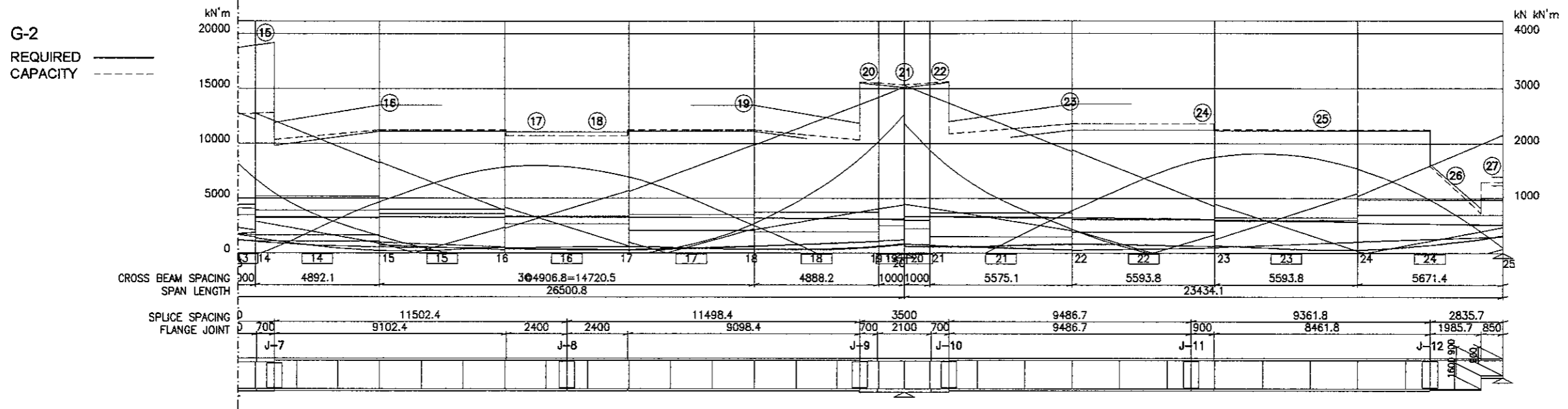
G-2  
 REQUIRED ———  
 CAPACITY - - - - -



SECTION ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
U-FLG, W=1500 MM	SEC-1		SEC-2		SEC-3		SEC-4		SEC-5		SEC-6		SEC-7		SEC-8	
U-FLG QUALITY	SM 490YB		SM 490YB		SM 490YB		SM 490YB		SM 490YB		SM 490YB		SM 490YB		SM 570	
L-FLG, W=1049 MM	SM 490YB		SM 490YA		SM 490YA		SM 490YB		SM 490YB		SM 490YA		SM 490YA		SM 570	
U-FLG STRESS	σ	210	210	172	178	158	181	175	176	177	177	210	210	210	210	210
L-FLG STRESS	σ	51	-51	94	163	158	116	195	191	183	176	176	-176	-124	-145	-145
WEB SHEAR STRESS	τ	63	26	59	116	57	56	26	18	18	15	74	61	63	63	67
SECTION GOVERN	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
NET U-FLG STRESS	σ	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182
NET L-FLG STRESS	σ	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45

W = WIDTH  
 H = HEIGHT  
 TH = THICKNESS  
 STRESS IN N/mm<sup>2</sup>

MAX. = MAXIMUM  
 MAX.R = MAXIMUM RIGHT  
 MAX.L = MAXIMUM LEFT

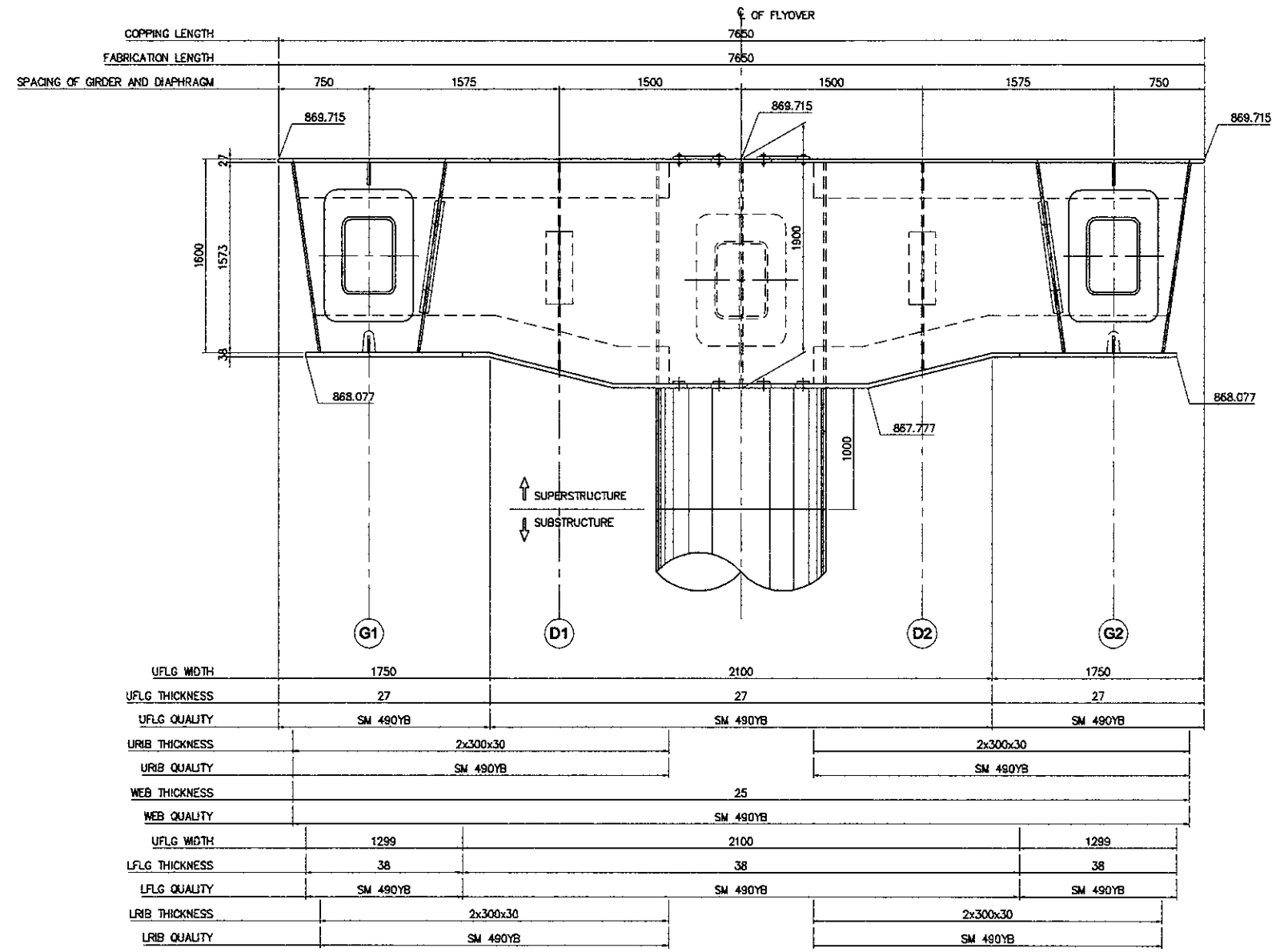


SECTION ID	14	15	16	17	18	19	20	21	22	23	24	25	26	27																								
U-FLG, W=1500 MM	SEC-8	SEC-8	SEC-9	SEC-9	SEC-10	SEC-10	SEC-11	SEC-11	SEC-11	SEC-12	SEC-13	SEC-13	SEC-14	SEC-15																								
U-FLG QUALITY	SM 570	SM 570	SM 570	SM 570	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA																								
U-FLG LOG. RIB	THICKNESS 0	THICKNESS 190	THICKNESS 190	THICKNESS 190	THICKNESS 190	THICKNESS 190	THICKNESS 190	THICKNESS 0	THICKNESS 190	THICKNESS 190	THICKNESS 190	THICKNESS 190	THICKNESS 190	THICKNESS 190																								
LWEB-PL	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 18	THICKNESS 18	THICKNESS 18	THICKNESS 18	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 30																								
RWEB-PL	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 18	THICKNESS 18	THICKNESS 18	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 15	THICKNESS 30																								
L-FLG LOG. RIB	THICKNESS 16	THICKNESS 16	THICKNESS 16	THICKNESS 0	THICKNESS 0	THICKNESS 0	THICKNESS 140	THICKNESS 140	THICKNESS 16	THICKNESS 16	THICKNESS 16	THICKNESS 0	THICKNESS 0	THICKNESS 0																								
L-FLG, W=1049 MM	SM 570	SM 570	SM 570	SM 570	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA	SM 490YA																								
U-FLG STRESS	112	153	147	108	108	-27	87	-36	132	-129	-130	-132	-132	-119	-118	165	126	151	151	198	178	139	139	118	152	-140	-140	-145	-146	-148	-91	-106	-122	-88	-61	58		
σ	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	
σ-σ	98	57	63	102	102	183	123	174	78	47	46	44	45	45	58	58	45	84	59	59	14	32	71	71	92	58	37	37	31	30	27	91	53	56	83	149	151	
σ	-147	-197	-191	-143	-142	31	-117	38	-146	164	172	173	173	157	150	-194	-131	-154	-195	-181	-143	-143	-122	-173	169	169	176	183	186	113	154	168	97	56	-53			
σ	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	
σ-σ	63	13	19	67	68	179	93	171	84	46	38	35	37	37	53	60	16	79	56	56	15	29	67	67	88	37	41	41	34	27	24	97	56	42	113	154	157	
ε	83	81	27	30	30	77	29	79	29	33	33	29	25	25	17	17	72	59	61	61	67	28	28	28	27	33	32	32	28	28	28	28	28	28	28	28	28	50
τ	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
τ	0.78	1.09	0.77	0.46	0.46	0.42	0.32	0.45	0.48	0.62	0.67	0.69	0.67	0.67	0.53	0.49	1.00	0.51	0.65	0.66	0.99	0.70	0.46	0.46	0.34	0.68	0.64	0.64	0.68	0.74	0.77	0.32	0.55	0.73	0.23	0.11	0.28	
τ	0.78	1.09	0.77	0.46	0.46	0.42	0.32	0.45	0.48	0.62	0.67	0.69	0.67	0.67	0.53	0.49	1.00	0.51	0.65	0.66	0.99	0.70	0.46	0.46	0.34	0.68	0.64	0.64	0.68	0.74	0.77	0.32	0.55	0.73	0.23	0.11	0.28	
SECTION GOVERN	LEFT	MAX.L	MAX.R	RIGHT	LEFT	RIGHT	RIGHT	J-7	J-7 RIGHT	LEFT	MAX.	RIGHT	J-8 RIGHT	LEFT	J-9 LEFT	RIGHT	LEFT	MAX.L	MAX.R	RIGHT	LEFT	RIGHT	RIGHT	RIGHT	J-10	J-11 LEFT	RIGHT	LEFT	MAX.	RIGHT	J-12 RIGHT	LEFT	RIGHT	RIGHT	RIGHT	RIGHT		
NET U-FLG STRESS, σ																																						
NET L-FLG STRESS, σ								44					189				191																					

W = WIDTH  
 H = HEIGHT  
 TH = THICKNESS  
 STRESS IN N/mm<sup>2</sup>

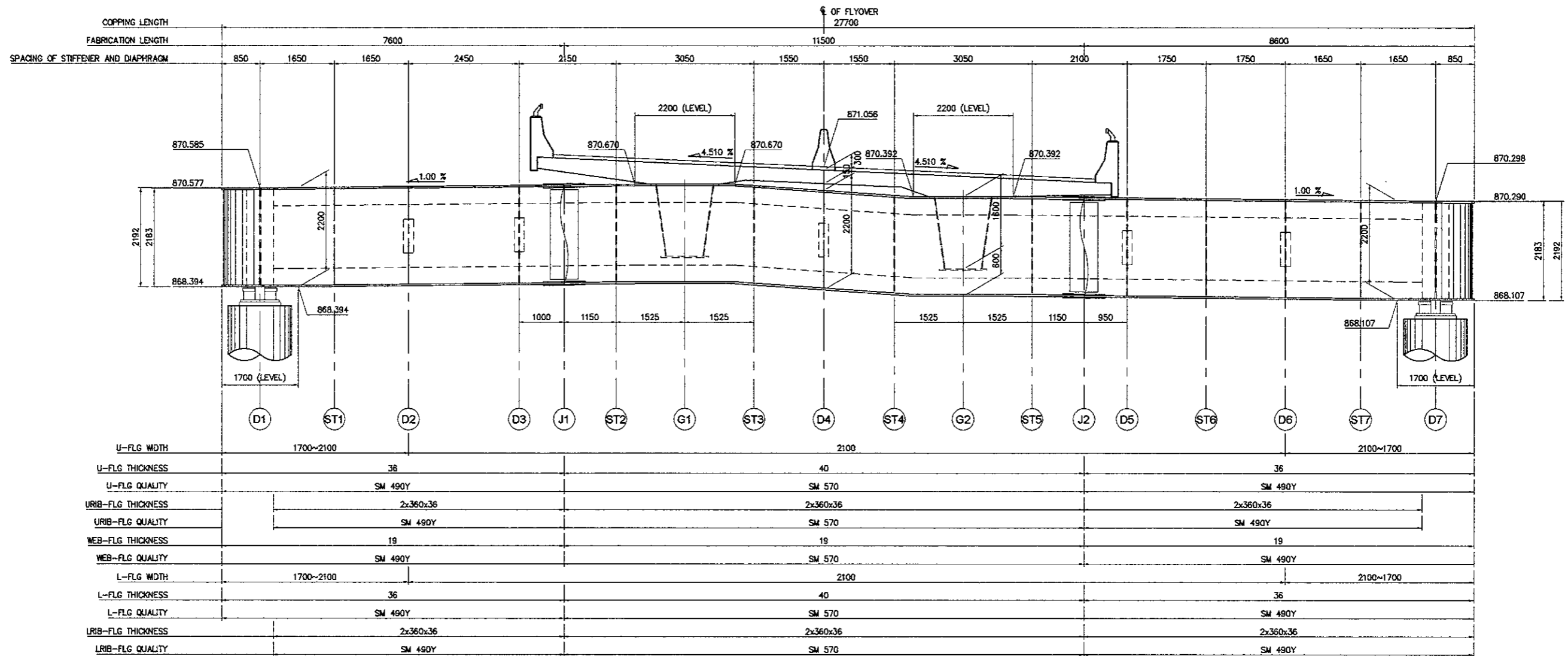
MAX. = MAXIMUM  
 MAX.R = MAXIMUM RIGHT  
 MAX.L = MAXIMUM LEFT

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	S. MATSUI	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



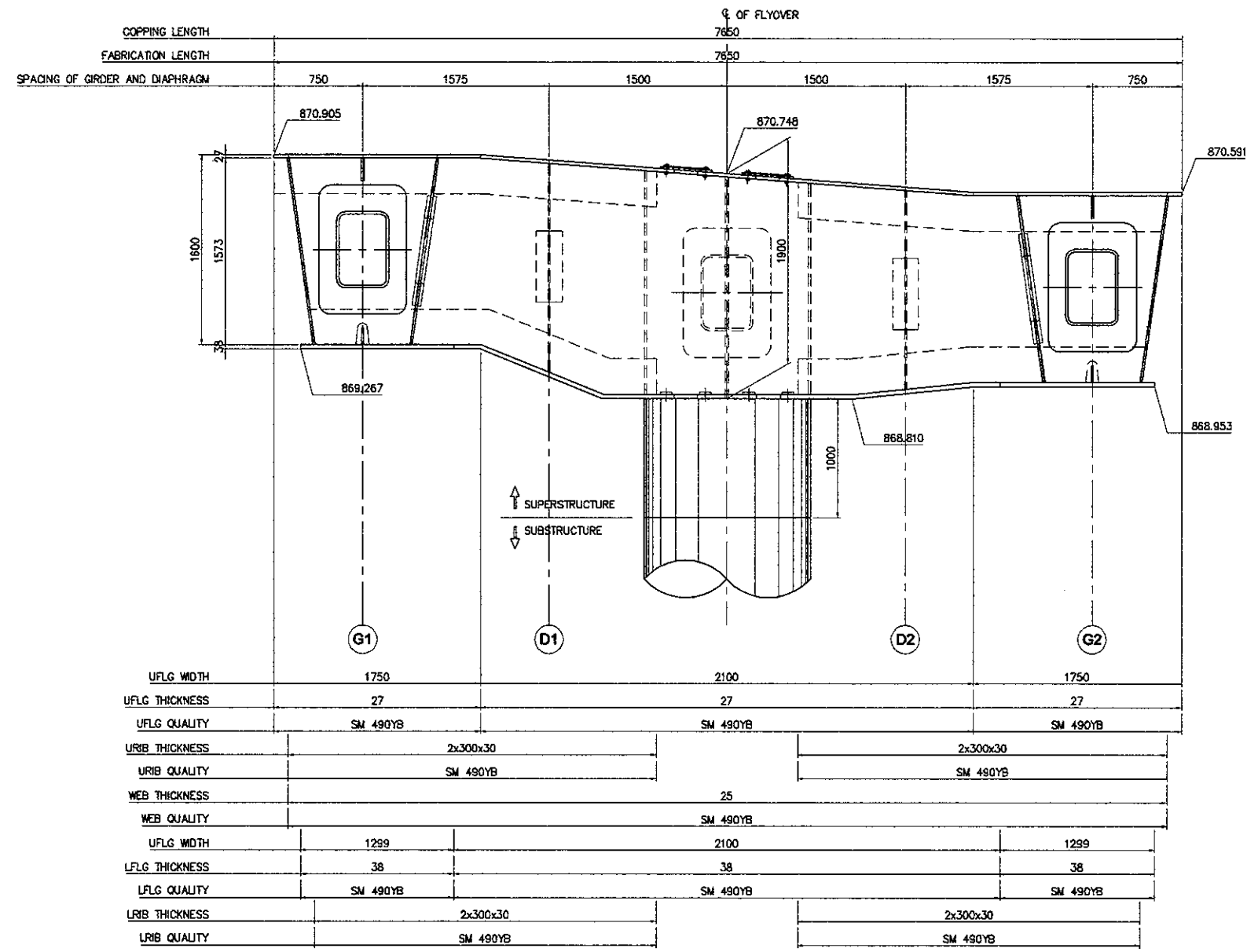
SECTIONAL DIMENSION OF GIRDER P5
   
 SCALE : 1:50

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	S. MATSUI	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



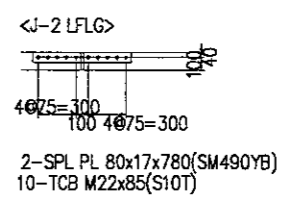
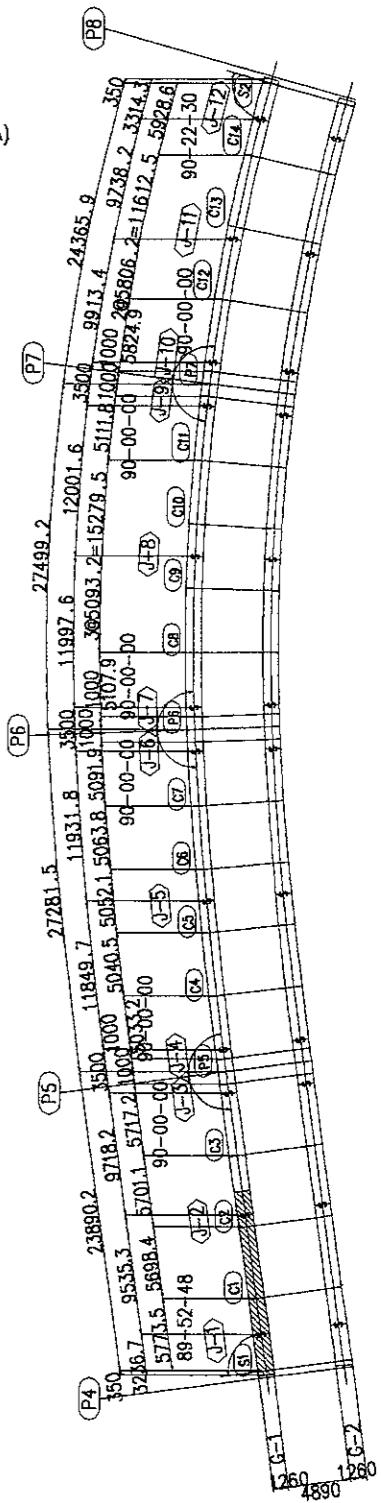
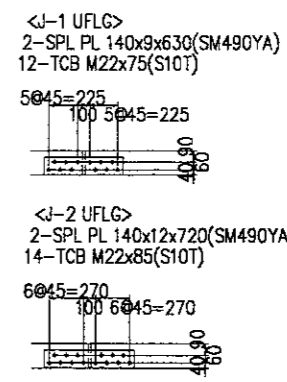
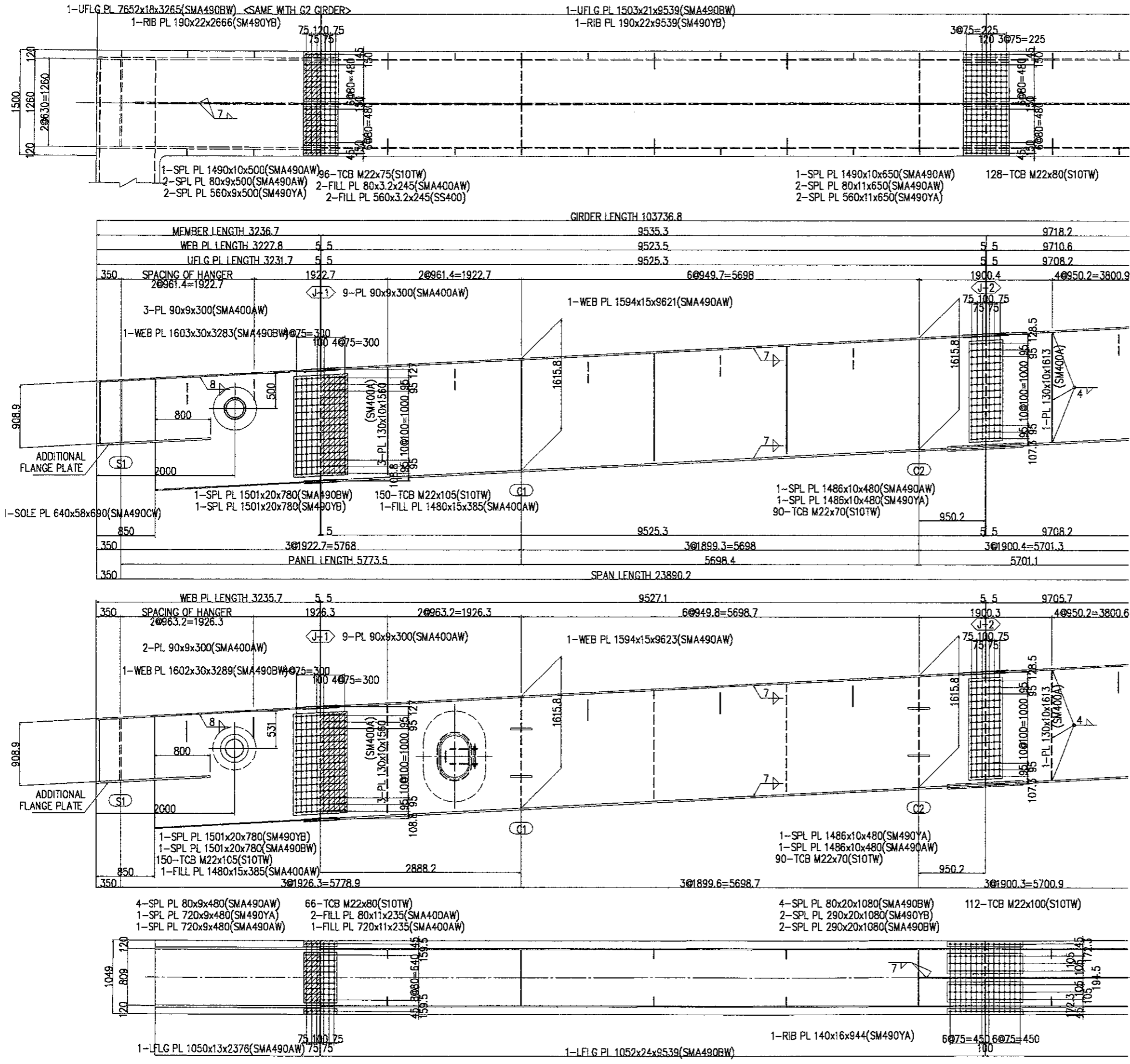
SECTIONAL DIMENSION OF GIRDER P6
   
 SCALE : 1:100

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	S. MATSUI	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

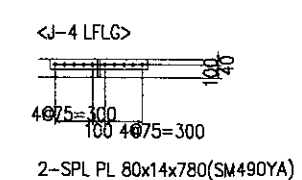
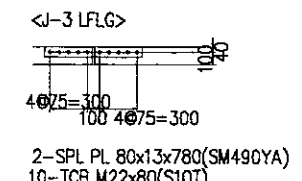
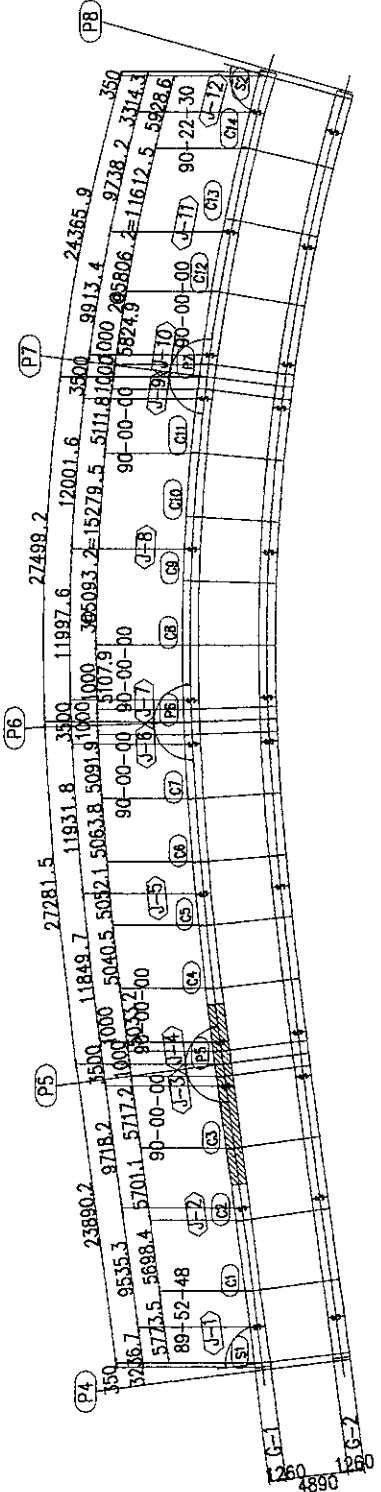
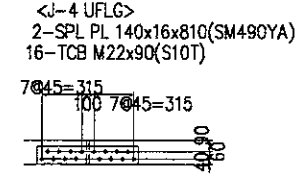
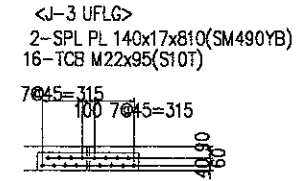
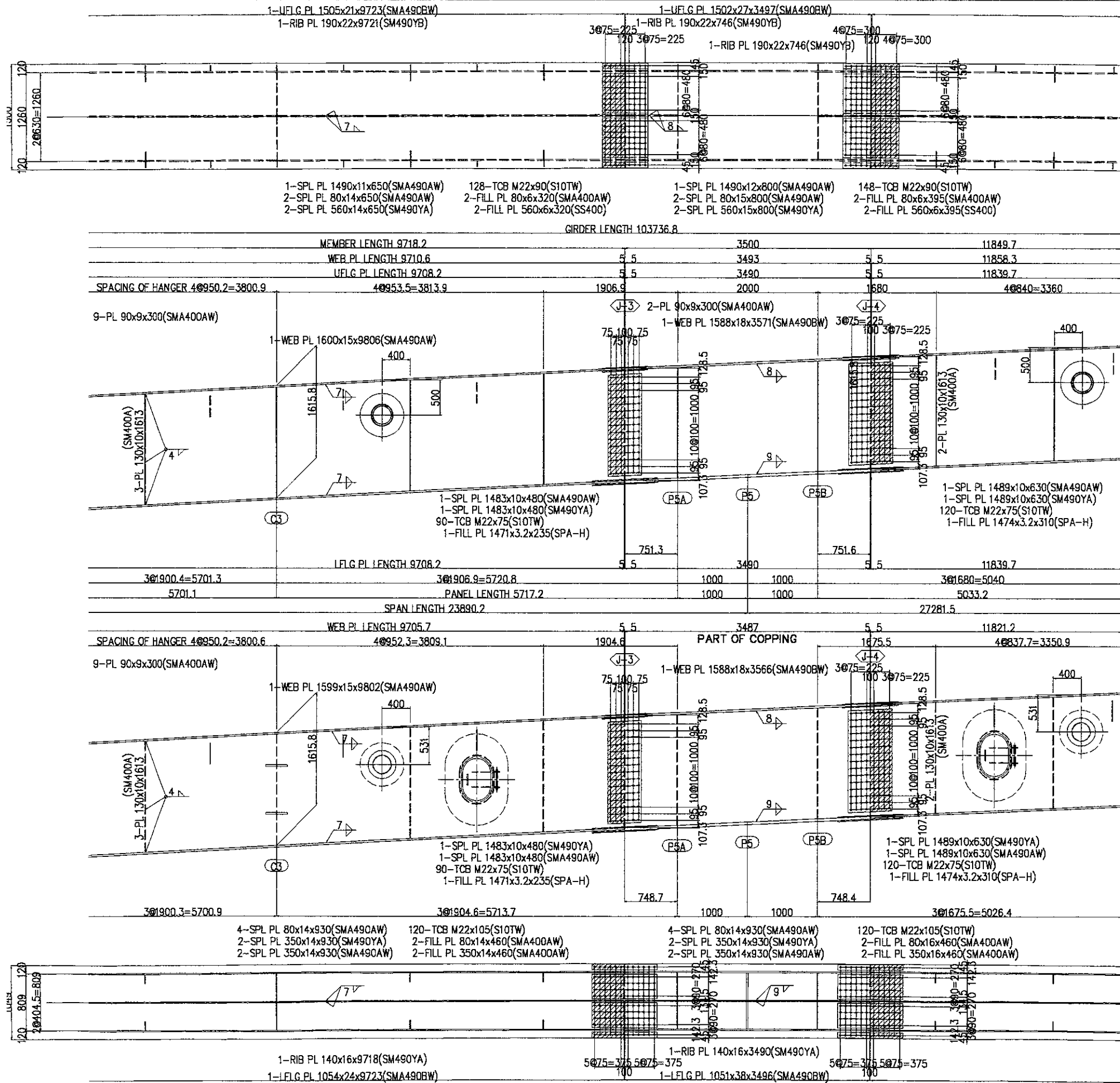


SECTIONAL DIMENSION OF GIRDER P7
   
 SCALE : 1:50



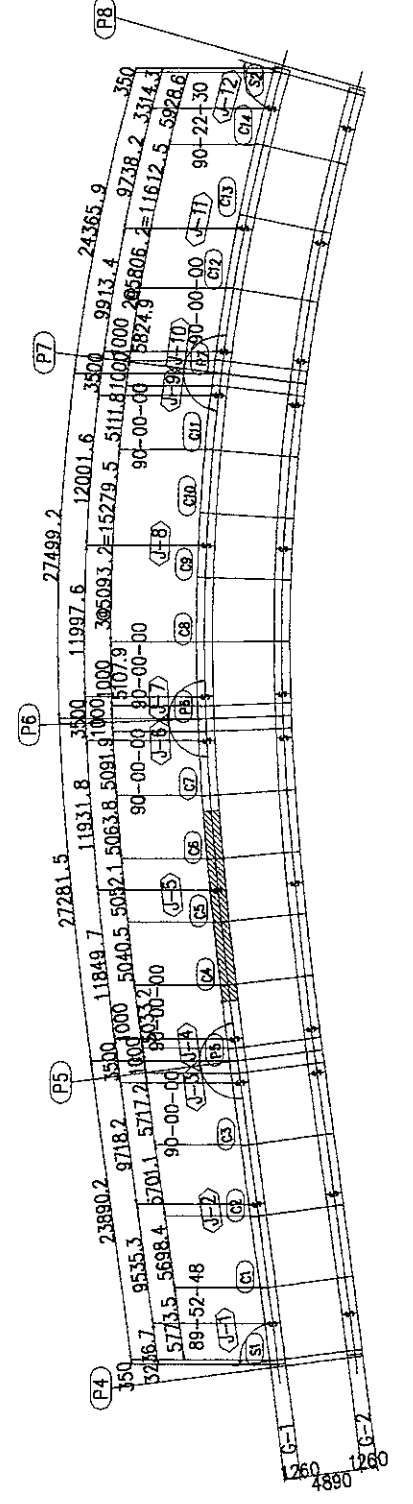
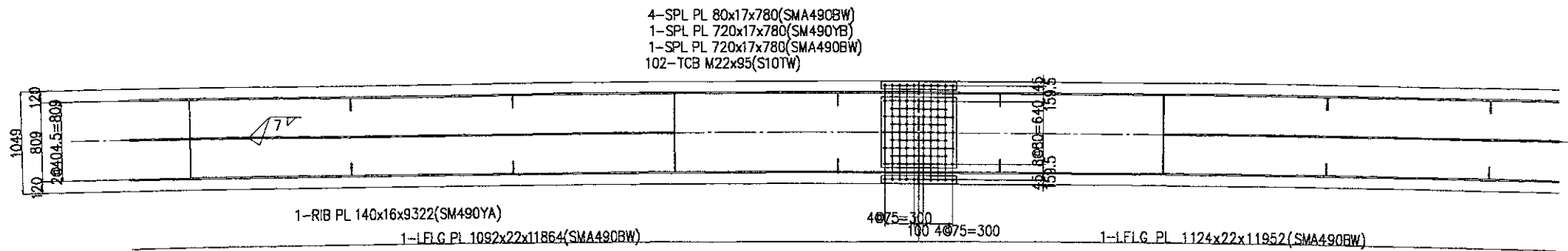
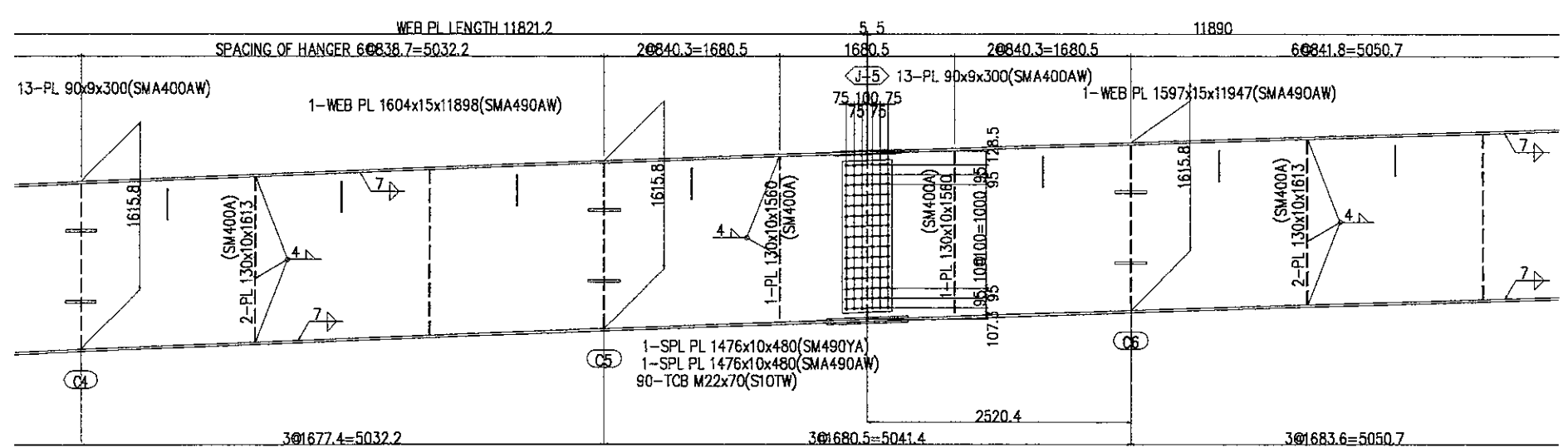
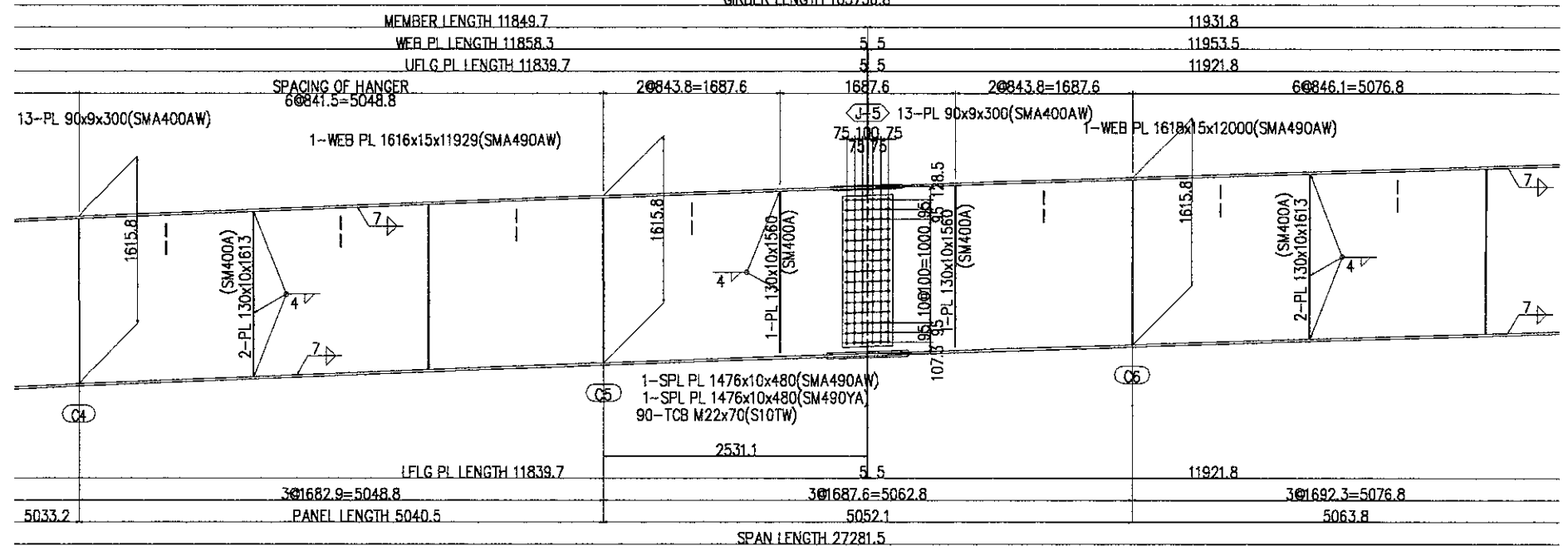
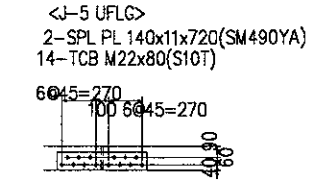
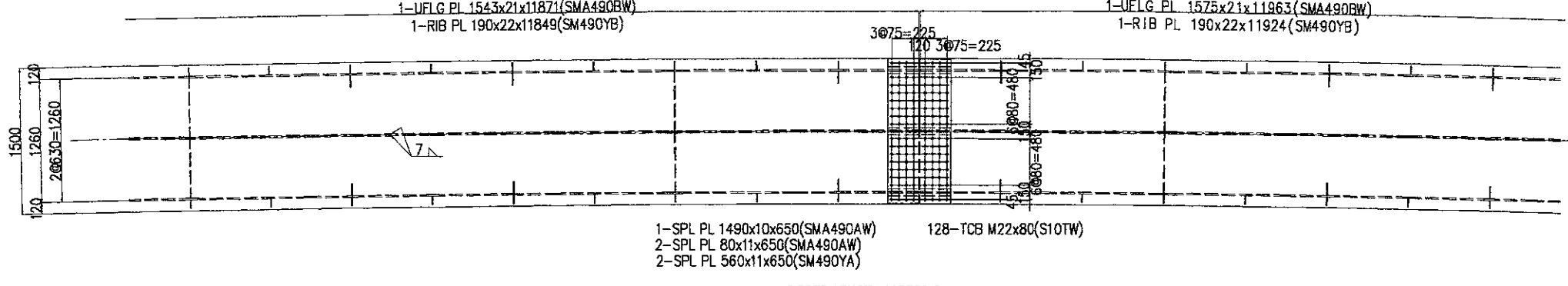


NOTES:  
 1. MARK "H" SHALL BE HIGH TENSION TORSION TYPE BOLT  
 2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED  
 3. SPLICE HOLES IN FLANGE RIB PLATES SHALL BE D=26.50



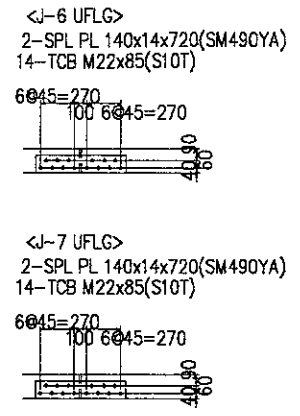
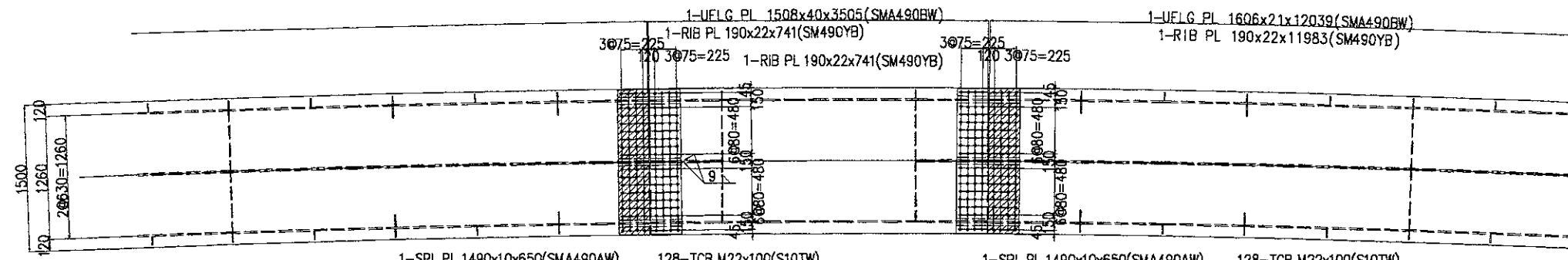
NOTES :

- MARK "+" SHALL BE HIGH TENSION TORSION TYPE BOLT
- ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
- SPLICE HOLES IN FLANGE RIB PLATES SHALL BE D=26.50

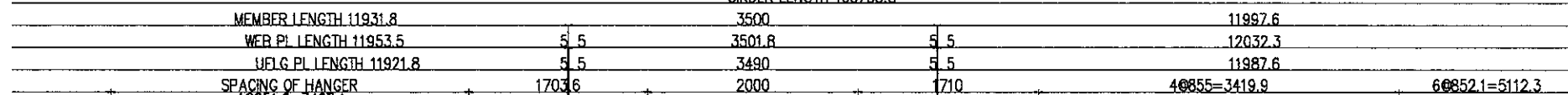


- NOTES :
- MARK "4" SHALL BE HIGH TENSION TORSION TYPE BOLT
  - ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
  - SPLICE HOLES IN FLANGE RIB PLATES SHALL BE D=26.50

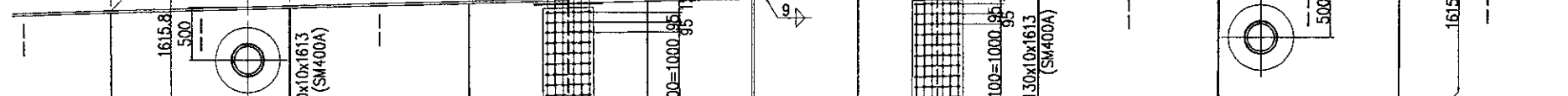
DESIGNED BY	CHECKED BY	SUBMITTED BY
Name: S. MATSUI	Name: T. OKUMURA	Name: M. KIUCHI
Sign:	Sign:	Sign:
Date:	Date:	Date:



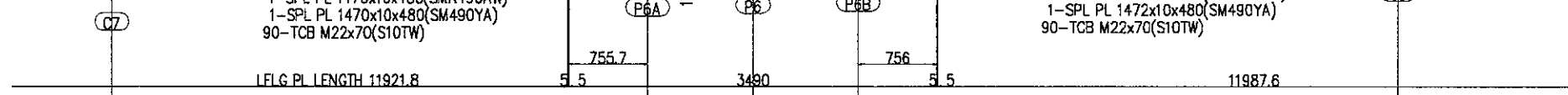
MEMBER LENGTH 11931.8		3500		11997.6	
WEB PL LENGTH	11953.5	5.5	3501.8	5.5	12032.3
UFLG PL LENGTH	11921.8	5.5	3490	5.5	11987.6
SPACING OF HANGER	40851.8=3407.1	1703.6	2000	710	40855=3419.9
					60852.1=5112.3



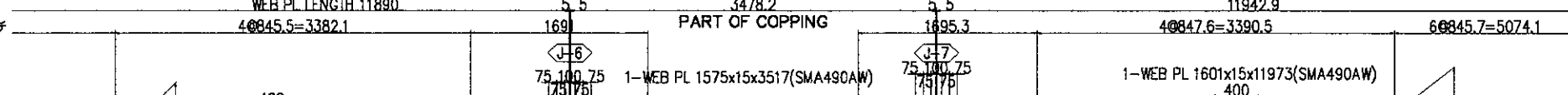
MEMBER LENGTH 11921.8		3500		11987.6	
UFLG PL LENGTH	11921.8	5.5	3490	5.5	11987.6
SPACING OF HANGER	40851.8=3407.1	1703.6	2000	710	40855=3419.9
					60852.1=5112.3



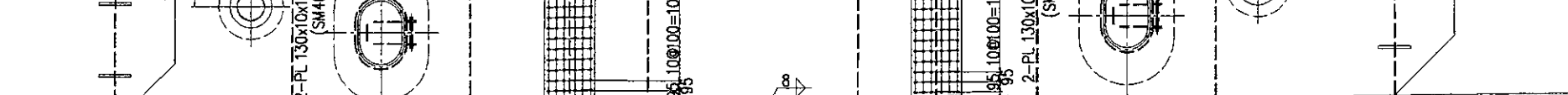
MEMBER LENGTH 11890		3478.2		11942.9	
WEB PL LENGTH	11890	5.5	3478.2	5.5	11942.9
UFLG PL LENGTH	11921.8	5.5	3490	5.5	11987.6
SPACING OF HANGER	40851.8=3407.1	1703.6	2000	710	40855=3419.9
					60852.1=5112.3



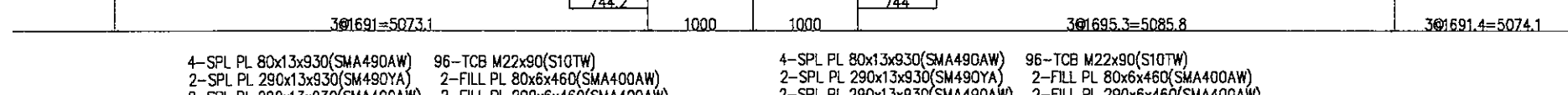
MEMBER LENGTH 11890		3478.2		11942.9	
WEB PL LENGTH	11890	5.5	3478.2	5.5	11942.9
UFLG PL LENGTH	11921.8	5.5	3490	5.5	11987.6
SPACING OF HANGER	40851.8=3407.1	1703.6	2000	710	40855=3419.9
					60852.1=5112.3



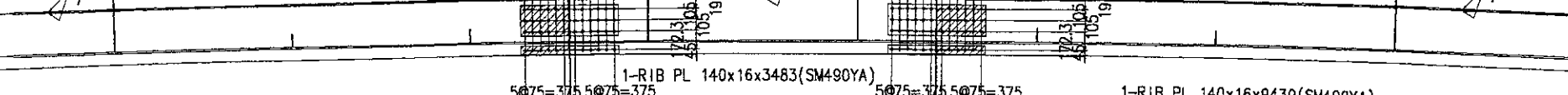
MEMBER LENGTH 11890		3478.2		11942.9	
WEB PL LENGTH	11890	5.5	3478.2	5.5	11942.9
UFLG PL LENGTH	11921.8	5.5	3490	5.5	11987.6
SPACING OF HANGER	40851.8=3407.1	1703.6	2000	710	40855=3419.9
					60852.1=5112.3



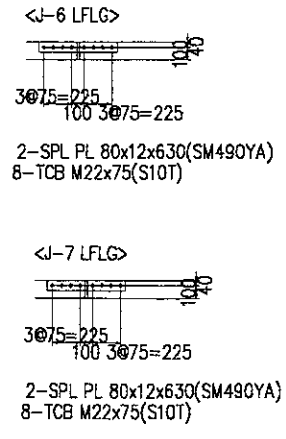
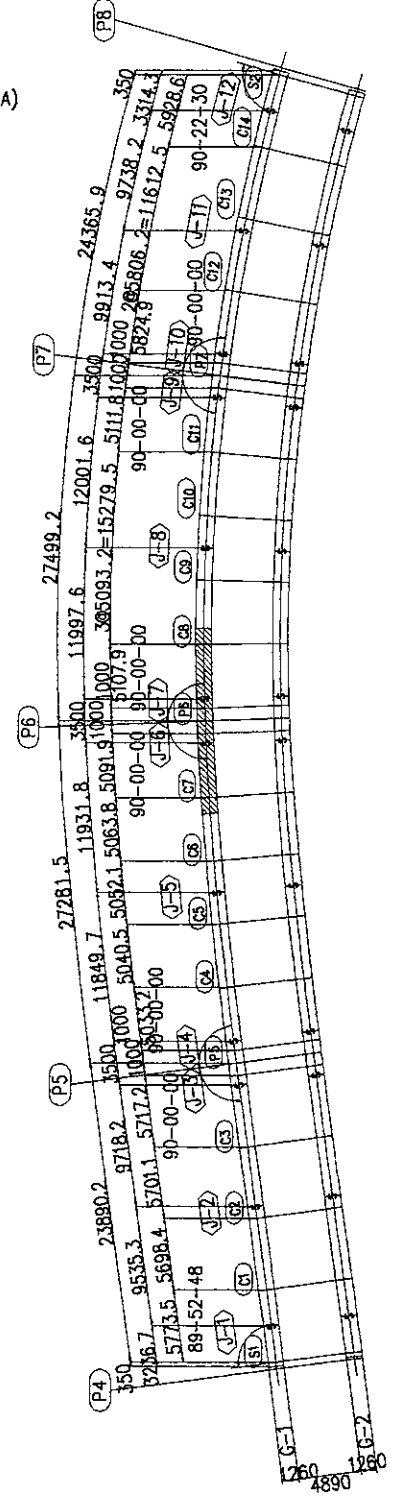
MEMBER LENGTH 11890		3478.2		11942.9	
WEB PL LENGTH	11890	5.5	3478.2	5.5	11942.9
UFLG PL LENGTH	11921.8	5.5	3490	5.5	11987.6
SPACING OF HANGER	40851.8=3407.1	1703.6	2000	710	40855=3419.9
					60852.1=5112.3



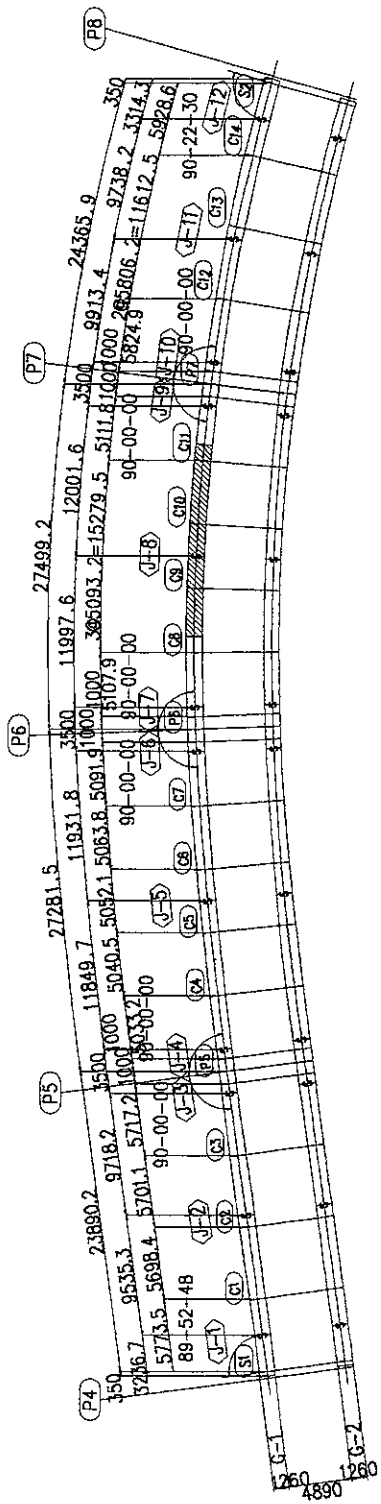
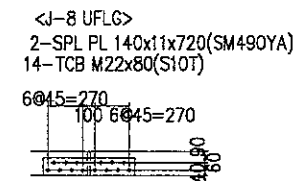
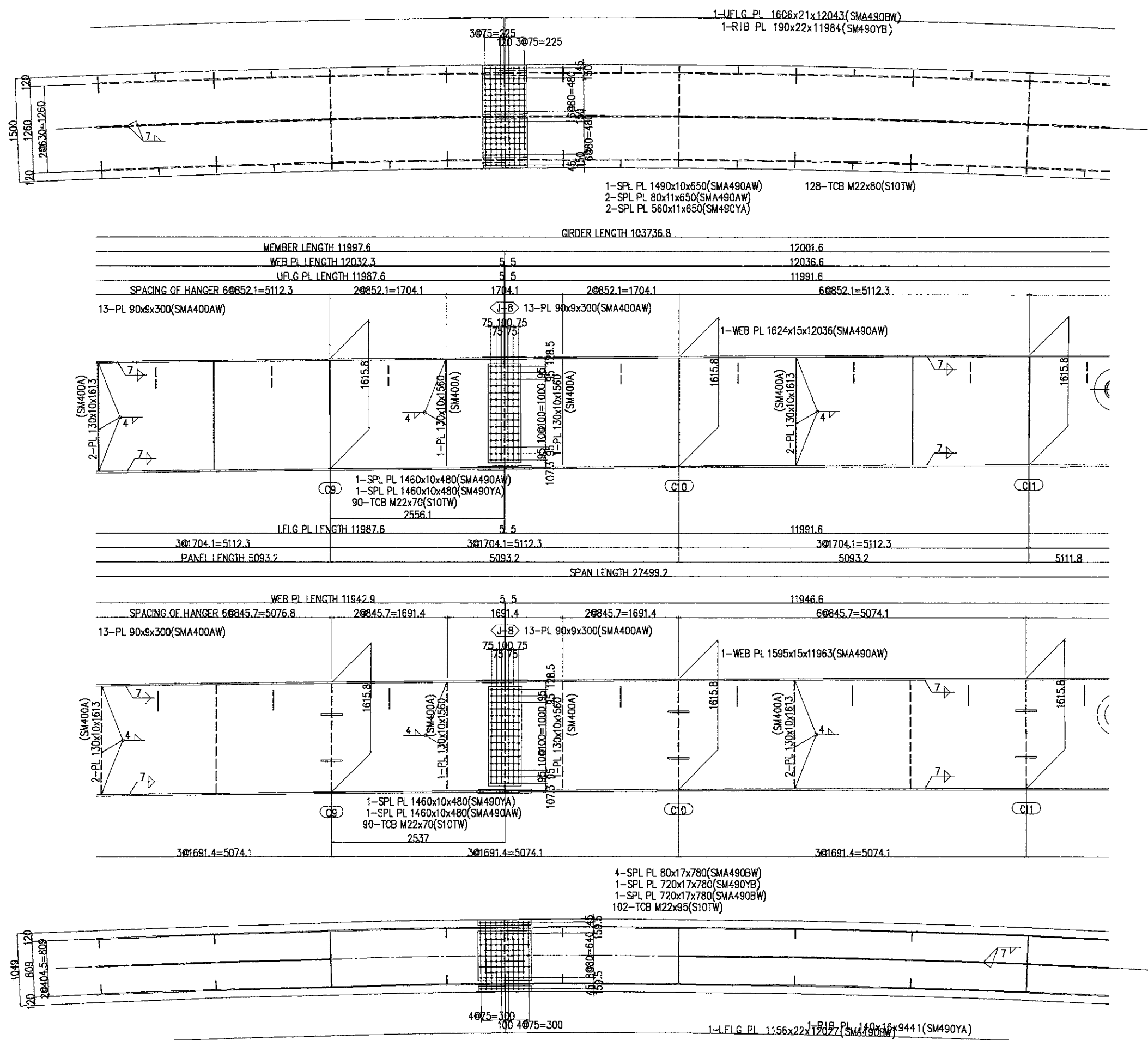
MEMBER LENGTH 11890		3478.2		11942.9	
WEB PL LENGTH	11890	5.5	3478.2	5.5	11942.9
UFLG PL LENGTH	11921.8	5.5	3490	5.5	11987.6
SPACING OF HANGER	40851.8=3407.1	1703.6	2000	710	40855=3419.9
					60852.1=5112.3



MEMBER LENGTH 11890		3478.2		11942.9	
WEB PL LENGTH	11890	5.5	3478.2	5.5	11942.9
UFLG PL LENGTH	11921.8	5.5	3490	5.5	11987.6
SPACING OF HANGER	40851.8=3407.1	1703.6	2000	710	40855=3419.9
					60852.1=5112.3

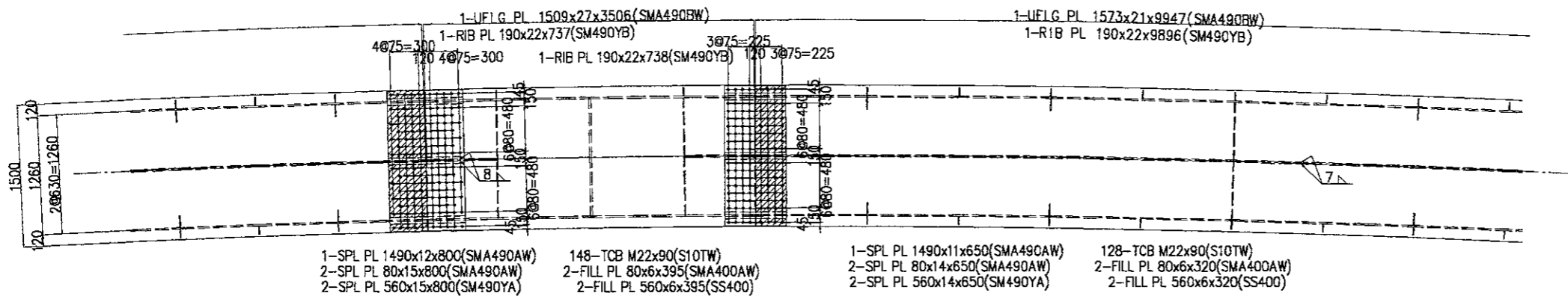


NOTES :  
 1. MARK "+" SHALL BE HIGH TENSION TORSION TYPE BOLT  
 2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED  
 3. SPLICE HOLES IN FLANGE RIB PLATES SHALL BE D=26.50



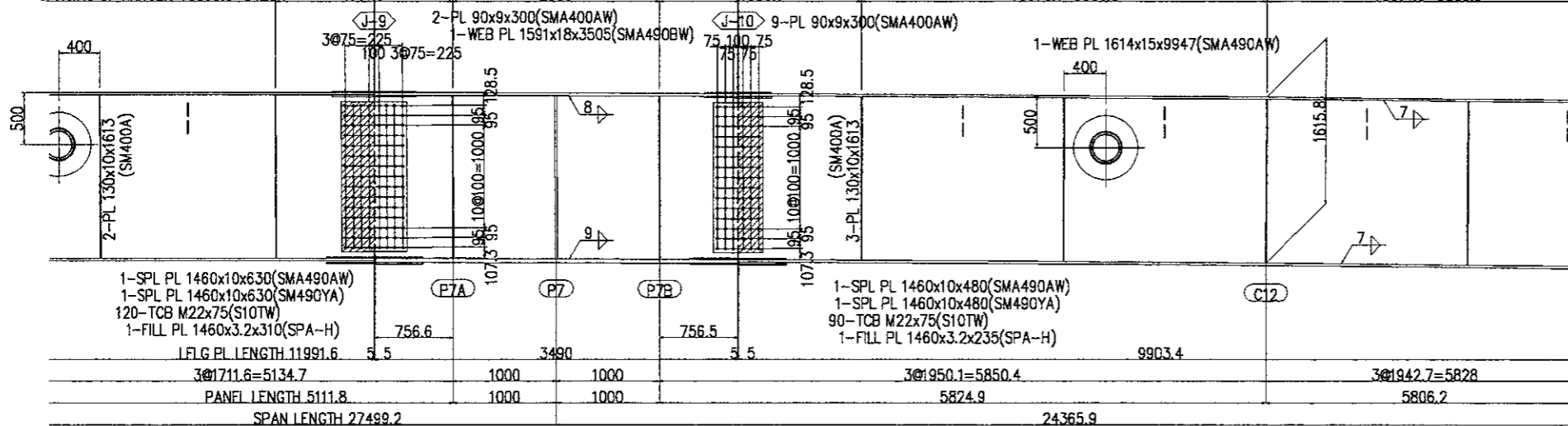
- NOTES :
1. MARK "+" SHALL BE HIGH TENSION TORSION TYPE BOLT
  2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
  3. SPLICE HOLES IN FLANGE RIB PLATES SHALL BE D=26.50

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	S. MATSUI	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

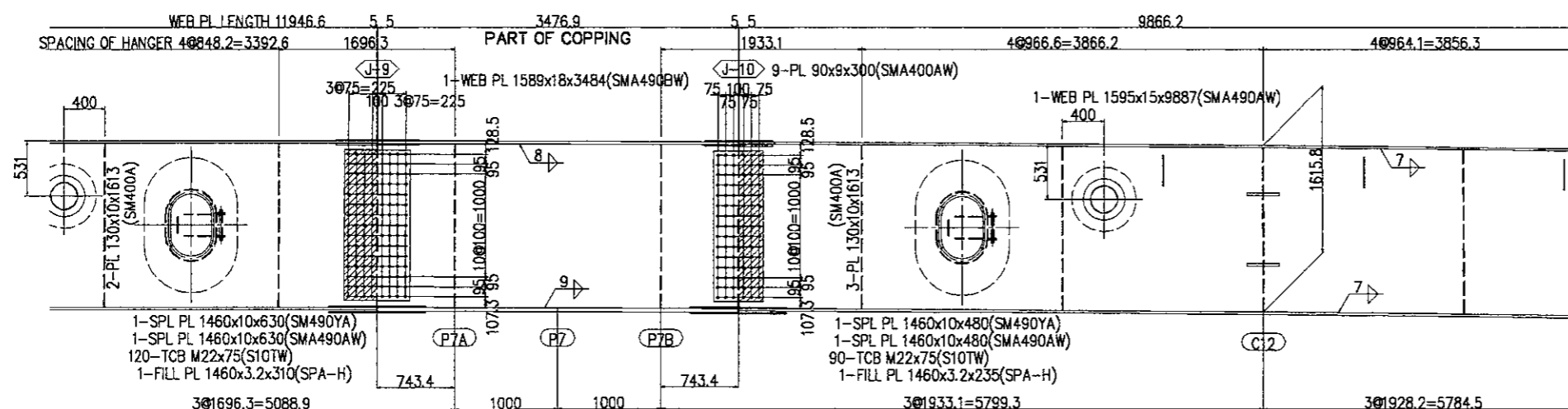


- 1-SPL PL 1490x12x800(SMA490AW)
- 2-SPL PL 80x15x800(SMA490AW)
- 2-SPL PL 560x15x800(SMA490YA)
- 148-TCB M22x90(S10TW)
- 2-FILL PL 80x6x395(SMA400AW)
- 2-FILL PL 560x6x395(SS400)
- 1-SPL PL 1490x11x650(SMA490AW)
- 2-SPL PL 80x14x650(SMA490AW)
- 2-SPL PL 560x14x650(SMA490YA)
- 128-TCB M22x90(S10TW)
- 2-FILL PL 80x6x320(SMA400AW)
- 2-FILL PL 560x6x320(SS400)

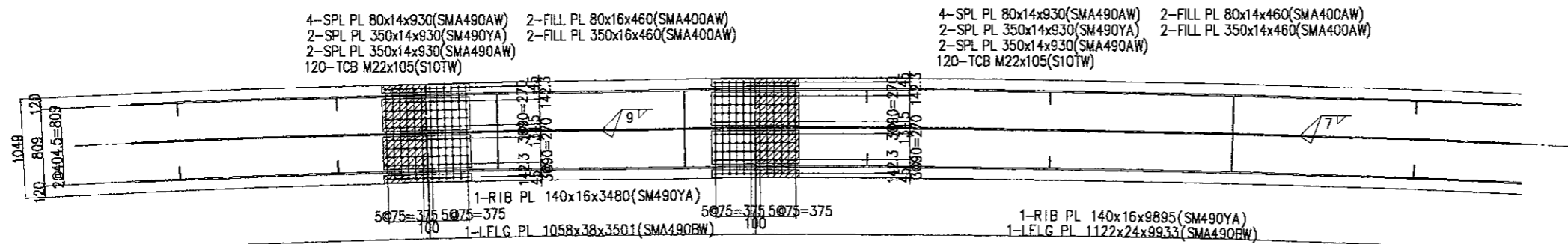
MEMBER LENGTH 12001.6						GIRDER LENGTH 103736.8					
MEMBER LENGTH	12001.6					3500					9913.4
WEB PL LENGTH	12036.6	5.5				3503.1	5.5				9940.5
UFLG PL LENGTH	11991.6	5.5				3490	5.5				9903.4
SPACING OF HANGER	40855.8=3423.1	1711.6				2000	1950.1				40975.1=3900.3
											40971.3=3885.3



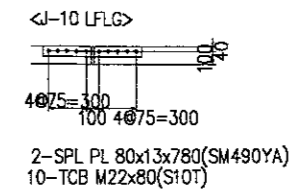
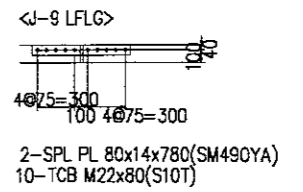
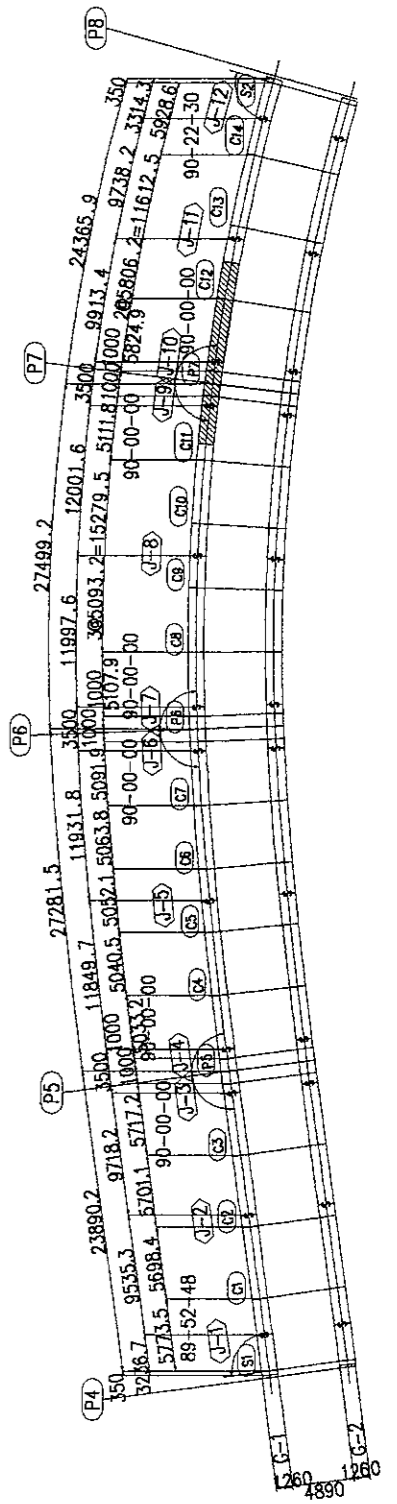
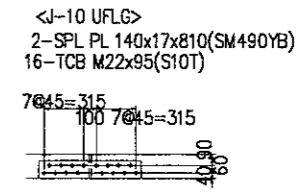
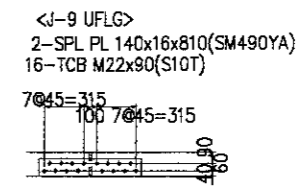
MEMBER LENGTH 11991.6						MEMBER LENGTH 11991.6					
MEMBER LENGTH	11991.6					5111.8					9903.4
WEB PL LENGTH	11991.6	5.5				5111.8	5.5				9903.4
UFLG PL LENGTH	11991.6	5.5				5111.8	5.5				9903.4
SPACING OF HANGER	40855.8=3423.1	1711.6				2000	1950.1				40975.1=3900.3
											40971.3=3885.3



MEMBER LENGTH 11946.6						MEMBER LENGTH 11946.6					
MEMBER LENGTH	11946.6					5111.8					9866.2
WEB PL LENGTH	11946.6	5.5				5111.8	5.5				9866.2
UFLG PL LENGTH	11946.6	5.5				5111.8	5.5				9866.2
SPACING OF HANGER	40848.2=3392.6	1696.3				2000	1933.1				40966.6=3866.2
											40964.1=3856.3



- 4-SPL PL 80x14x930(SMA490AW)
- 2-SPL PL 350x14x930(SMA490YA)
- 2-SPL PL 350x14x930(SMA490AW)
- 120-TCB M22x105(S10TW)
- 2-FILL PL 80x16x460(SMA400AW)
- 2-FILL PL 350x16x460(SMA400AW)
- 2-FILL PL 350x16x460(SMA400AW)
- 2-FILL PL 350x14x930(SMA490YA)
- 2-SPL PL 350x14x930(SMA490AW)
- 120-TCB M22x105(S10TW)
- 4-SPL PL 80x14x930(SMA490AW)
- 2-SPL PL 350x14x930(SMA490YA)
- 2-SPL PL 350x14x930(SMA490AW)
- 120-TCB M22x105(S10TW)
- 2-FILL PL 80x14x460(SMA400AW)
- 2-FILL PL 350x14x460(SMA400AW)
- 2-FILL PL 350x14x460(SMA400AW)
- 2-FILL PL 350x14x930(SMA490YA)
- 2-SPL PL 350x14x930(SMA490AW)
- 120-TCB M22x105(S10TW)



- NOTES:
- MARK "+" SHALL BE HIGH TENSION TORSION TYPE BOLT
  - ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
  - SPLICE HOLES IN FLANGE RIB PLATES SHALL BE D=26.50