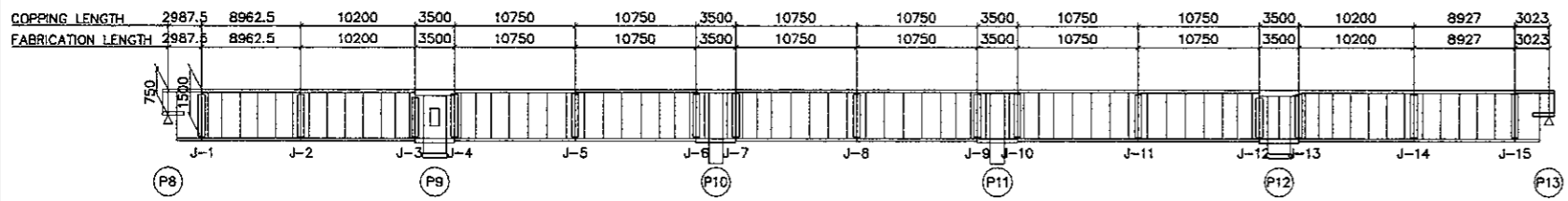


MEMBER	MAIN GIRDER G1														
JOINT NO.	BLOCK-1	BLOCK-2	BLOCK-3	BLOCK-5	BLOCK-6	BLOCK-7	BLOCK-8	BLOCK-9	BLOCK-10	BLOCK-11	BLOCK-12	BLOCK-14	BLOCK-15	BLOCK-16	TOTAL
PER MEMBER	4,625	10,661	14,046	12,775	12,743	5,897	12,239	12,242	4,458	12,244	13,486	12,230	10,554	4,983	
SET	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
GRAND TOTAL	4,625	10,661	14,046	12,775	12,743	5,897	12,239	12,242	4,458	12,244	13,486	12,230	10,554	4,983	143,183

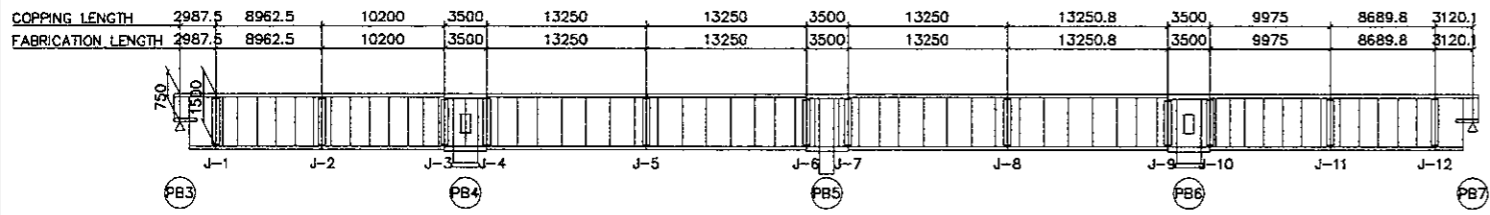
MEMBER	JOINT G1															
JOINT NO.	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14	J15	TOTAL
PER MEMBER	3,926.0	1,664.0	1,440.5	1,341.5	1,603.0	2,540.5	2,397.5	911.5	1,709.0	2,201.5	1,423.0	1,375.0	1,458.5	1,493.0	1,163.0	
SET	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17
GRAND TOTAL	3,926	1,664	1,441	1,342	1,603	2,541	2,398	912	1,709	2,202	1,423	1,375	1,459	1,493	1,163	30,125.0



ARRANGEMENT DIAGRAM OF GIRDER G1
NOT TO SCALE

MEMBER	MAIN GIRDER G2											
JOINT NO.	BLOCK-1	BLOCK-2	BLOCK-3	BLOCK-5	BLOCK-6	BLOCK-7	BLOCK-8	BLOCK-9	BLOCK-11	BLOCK-12	BLOCK-13	TOTAL
PER MEMBER	4,613.0	10,725.0	12,540.0	15,925.0	16,385.0	5,325.0	16,386.0	17,018.0	12,661.0	10,534.0	3,670.0	
SET	1	1	1	1	1	1	1	1	1	1	1	11
GRAND TOTAL	4,613.0	10,725.0	12,540.0	15,925.0	16,385.0	5,325.0	16,386.0	17,018.0	12,661.0	10,534.0	3,670.0	125,782.0

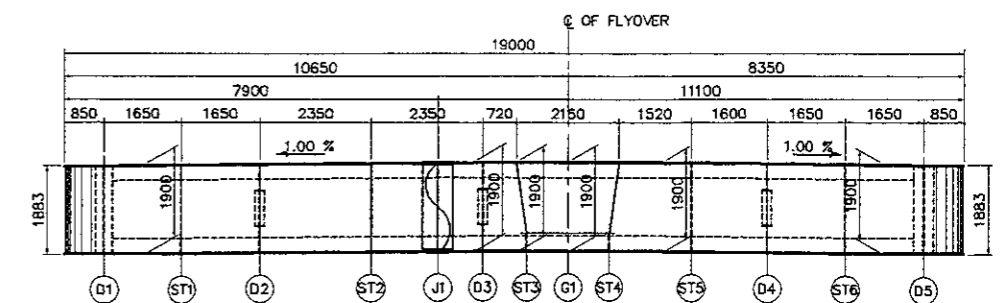
MEMBER	JOINT G2												
JOINT NO.	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	TOTAL
PER MEMBER	2,962.5	1,433.5	762.0	720.5	1,494.5	1,996.0	2,002.0	1,503.5	723.5	794.0	1,521.5	1,771.5	
SET	1	1	1	1	1	1	1	1	1	1	1	1	12
GRAND TOTAL	2,962.5	1,433.5	762.0	720.5	1,494.5	1,996.0	2,002.0	1,503.5	723.5	794.0	1,521.5	1,771.5	17,885.0



ARRANGEMENT DIAGRAM OF GIRDER G2
NOT TO SCALE

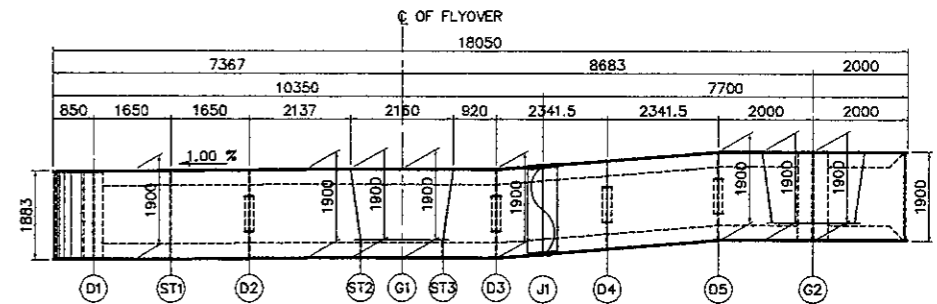
MEMBER	CROSS BEAM									
JOINT NO.	C17	C18	C19	C20	P8,PB3,P13	ST1	ST2	ST3	ST4	TOTAL
PER MEMBER	2,570	1,311	1,156	1,018	4,276	574	716	712	646	
SET	1	1	1	1	1	1	1	1	1	9
GRAND TOTAL	2,570	1,311	1,156	1,018	4,276	574	716	712	646	12,979

MEMBER	PORTAL TYPE P9		
JOINT NO.	PSL	P9R	TOTAL
PER MEMBER	12,904	25,446	
SET	1	1	2
GRAND TOTAL	12,904	25,446	38,350



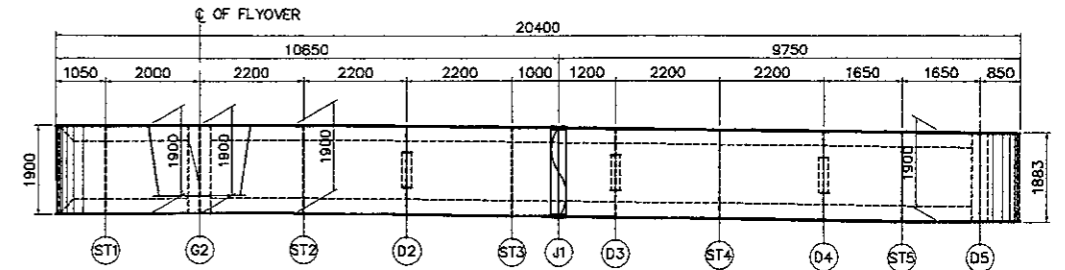
PORTAL-TYPE OF GIRDER P9
NOT TO SCALE

MEMBER	PORTAL TYPE P12		
JOINT NO.	P12L	P12R	TOTAL
PER MEMBER	26,226	17,715	
SET	1	1	2
GRAND TOTAL	26,226	17,715	43,941



PORTAL-TYPE OF GIRDER P12
NOT TO SCALE

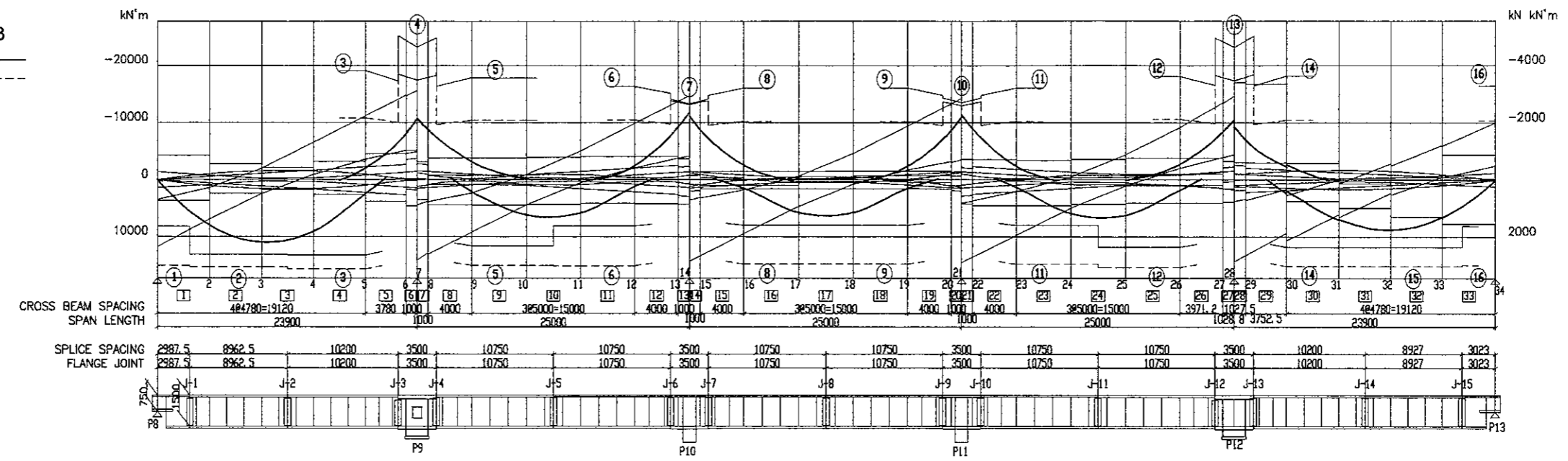
MEMBER	PORTAL TYPE PB4		
JOINT NO.	PB4L	PB4R	TOTAL
PER MEMBER	20,942	11,221	
SET	1	1	2
GRAND TOTAL	20,942	11,221	32,163



PORTAL-TYPE OF GIRDER PB4
NOT TO SCALE

**SECTIONAL DIMENSION OF GIRDER P8 - P13
 OF MERAK FLYOVER**

GIRDER P8-P13
 REQUIRED _____
 CAPACITY - - - - -



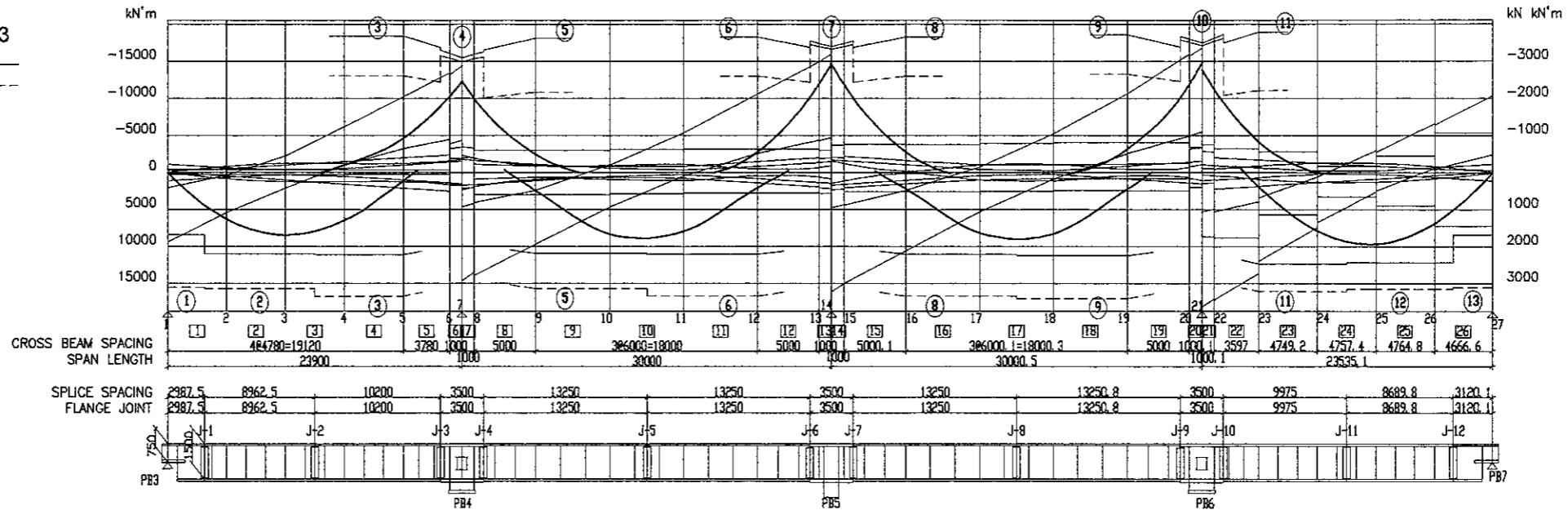
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																
SECTION ID	Sec-1	Sec-2	Sec-3	Sec-4	Sec-5	Sec-6	Sec-7	Sec-8	Sec-9	Sec-10	Sec-11	Sec-12	Sec-13	Sec-14	Sec-15	Sec-16																
U-FLG, W=2400 MM	16	20	20	38	19	16	18	16	16	19	16	19	38	19	19	16																
U-FLG QUALITY	S M 4 9 0 Y																															
U-FLG LOG. RIB	NCS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																
	WIDTH	250	250	250	300	250	250	300	250	300	250	250	300	250	250	250																
	THICKNESS	25	25	25	30	25	25	30	25	25	30	25	25	30	25	25																
LWEB-PL	WIDTH	1498.7	1498.7	1494.6	1494.6	1494.6	1476.5	1476.5	1495.6	1495.6	1498.7	1498.7	1495.6	1495.6	1498.7	1498.7																
	THICKNESS	30	15	17	17	15	17	17	15	15	15	15	17	17	15	20																
	QUALITY	S M 4 9 0 Y																														
RWEB-PL	WIDTH	1498.7	1498.7	1494.6	1494.6	1494.6	1476.5	1476.5	1495.6	1495.6	1498.7	1498.7	1495.6	1495.6	1498.7	1498.7																
	THICKNESS	30	15	17	17	15	17	17	15	15	15	15	17	17	15	20																
	QUALITY	S M 4 9 0 Y																														
L-FLG LOG. RIB	NCS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																
	WIDTH	250	250	250	300	250	250	300	250	300	250	250	300	250	250	250																
	THICKNESS	25	25	25	30	25	25	30	25	25	30	25	25	30	25	25																
L-FLG, W=1977 MM	16	16	16	28	16	16	23	16	16	23	16	16	28	16	16																	
L-FLG QUALITY	S M 4 9 0 Y																															
U-FLG STRESS	σ	0	-81	-143	-138	-135	79	95	108	105	-88	-95	110	195	194	113	-88	-88	112	191	192	111	-97	-86	109	112	93	90	-117	-122	-69	2
	σ _a	195	107	149	149	149	210	210	210	140	108	210	210	210	106	106	210	210	210	210	210	210	108	140	210	210	210	142	141	108	210	
	σ _{a-σ}	195	26	6	11	14	131	115	102	105	52	13	100	15	16	97	19	19	98	19	18	99	11	53	101	98	117	120	24	19	39	208
L-FLG STRESS	σ	0	88	172	167	163	-99	-134	-142	-119	104	103	-120	-186	-179	-120	98	98	-119	-182	-186	-121	106	101	-119	-144	-123	-101	136	141	74	-3
	σ _a	210	210	210	210	210	145	210	146	210	210	145	196	196	146	210	210	146	196	196	146	210	210	147	210	210	148	210	210	210	146	
	σ _{a-σ}	210	122	38	43	47	46	76	68	26	106	107	25	10	17	26	112	112	27	15	10	25	104	109	28	66	87	47	74	69	136	143
WEB SHEAR STRESS	τ	67	52	14	8	7	71	76	25	27	24	20	66	71	17	16	15	15	64	70	29	26	25	20	64	68	51	55	33	24	24	60
	σ _a	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
	COMBINED	0.31	0.30	0.64	0.60	0.57	0.45	0.67	0.46	0.36	0.26	0.25	0.52	1.05	0.82	0.33	0.22	0.22	0.50	1.01	0.83	0.36	0.27	0.24	0.50	0.66	0.48	0.41	0.45	0.46	0.16	0.25
SECTION GOVERN	LEFT	J-1 MAX.	J-2 LEFT	J-3 MAX.L	MAX.R	J-4 MAX.	J-5	J-6 MAX.L	MAX.R	J-7	J-8 MAX.	J-9 MAX.L	MAX.R	J-10	J-11 MAX.	J-12 MAX.L	MAX.R	J-13	J-14 MAX.	J-15 RIGHT												
NET U-FLG STRESS, σ																																
NET L-FLG STRESS, σ		102		193																												

W = WIDTH
 H = HEIGHT
 TH = THICKNESS
 STRESS IN N/mm²

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

**SECTIONAL DIMENSION OF GIRDER PB3 - P13
 OF MERAK FLYOVER**

GIRDER PB3-P13
 REQUIRED CAPACITY

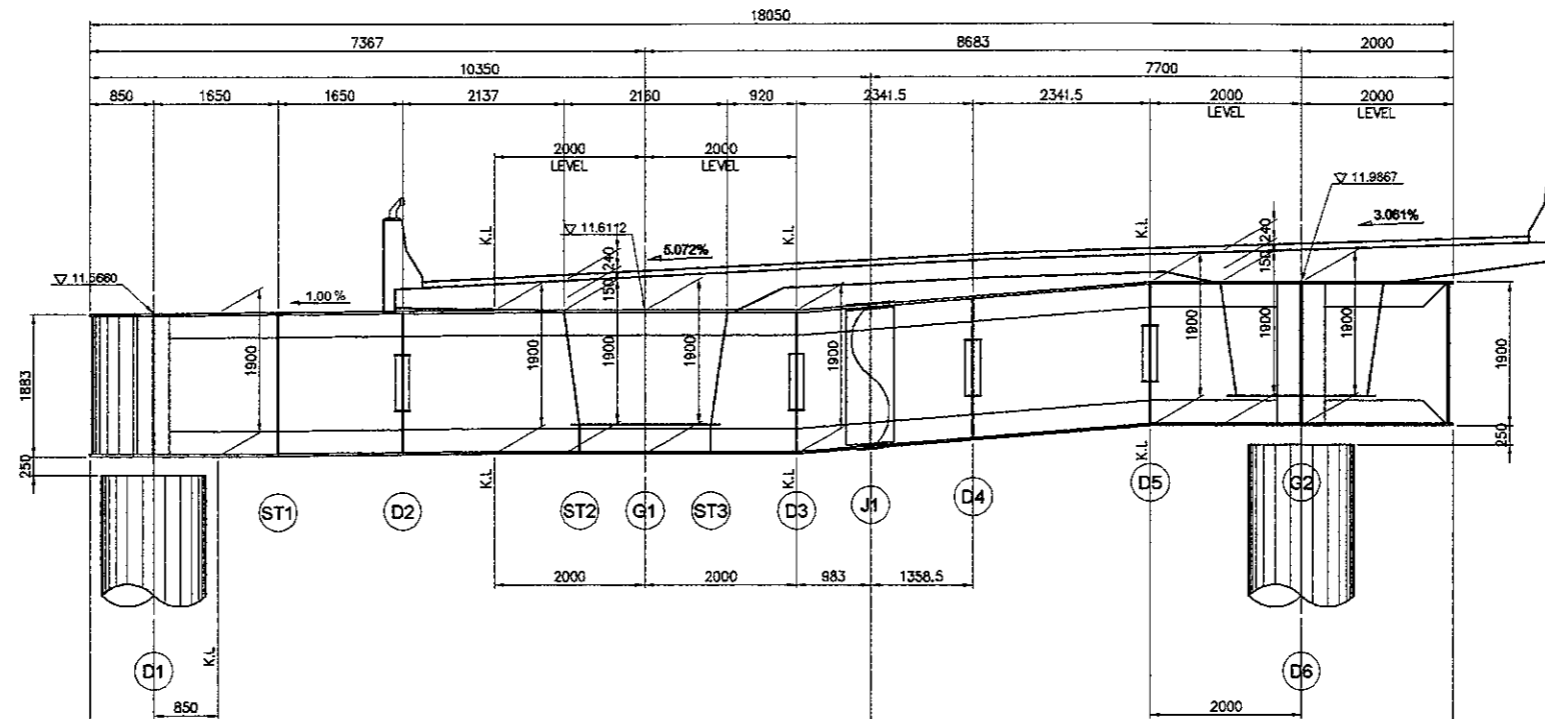


	1	2	3	4	5	6	7	8	9	10	11	12	13
SECTION ID	Sec-1	Sec-2	Sec-3	Sec-4	Sec-5	Sec-6	Sec-7	Sec-8	Sec-9	Sec-10	Sec-11	Sec-12	Sec-13
U-FLG, W=2400 MM	16(3)	18(3)	18(3)	22(3)	18(3)	18(3)	24(3)	18(3)	18(3)	25(3)	19(3)	19(3)	16(3)
U-FLG QUALITY	S M 4 9 0 Y												
U-FLG LOG. RIB	NOS: 2	2	2	2	2	2	2	2	2	2	2	2	2
U-FLG THICKNESS	270	270	270	340	270	270	380	270	270	340	270	270	270
U-FLG THICKNESS	28(3)	28(3)	28(3)	32(3)	28(3)	28(3)	36(3)	28(3)	28(3)	32(3)	28(3)	28(3)	28(3)
LWEB-PL	S M 4 9 0 Y												
LWEB-PL WIDTH	1488.7	1498.7	1496.7	1496.7	1496.7	1496.7	1496.7	1496.7	1496.7	1496.7	1488.6	1489.6	1495.6
LWEB-PL THICKNESS	20(3)	15(3)	15(3)	15(3)	15(3)	15(3)	15(3)	15(3)	17(3)	17(3)	17(3)	17(3)	15(3)
RWEB-PL	S M 4 9 0 Y												
RWEB-PL WIDTH	1488.7	1498.7	1496.7	1496.7	1496.7	1496.7	1496.7	1496.7	1496.7	1496.7	1488.6	1489.6	1495.6
RWEB-PL THICKNESS	20(3)	15(3)	15(3)	15(3)	15(3)	15(3)	15(3)	15(3)	17(3)	17(3)	17(3)	17(3)	15(3)
L-FLG LOG. RIB	NOS: 2	2	2	2	2	2	2	2	2	2	2	2	2
L-FLG THICKNESS	270	270	270	340	270	270	380	270	270	340	270	270	270
L-FLG THICKNESS	28(3)	28(3)	28(3)	32(3)	28(3)	28(3)	36(3)	28(3)	28(3)	32(3)	28(3)	28(3)	28(3)
L-FLG, W=1977 MM	16(3)	16(3)	18(3)	25(3)	16(3)	18(3)	27(3)	18(3)	18(3)	28(3)	16(3)	16(3)	16(3)
L-FLG QUALITY	S M 4 9 0 Y												
U-FLG STRESS	σ	0	-63	-114	-108	-107	133	189	134	-117	-117	-116	133
U-FLG STRESS	σ	114	108	131	131	131	210	210	210	130	130	130	210
U-FLG STRESS	σ-σ	114	45	17	23	25	77	21	12	76	13	13	14
L-FLG STRESS	σ	0	68	131	124	117	-140	-192	-199	-143	133	133	125
L-FLG STRESS	σ	151	210	210	210	210	166	206	206	148	210	210	164
L-FLG STRESS	σ-σ	151	142	79	86	93	25	14	7	5	77	77	85
WEB SHEAR STRESS	τ	48	35	11	4	4	64	73	28	26	21	19	19
WEB SHEAR STRESS	τ	120	120	120	120	120	120	120	120	120	120	120	120
WEB SHEAR STRESS	COMBINED	0.16	0.16	0.37	0.33	0.29	0.64	1.07	0.90	0.49	0.40	0.36	0.76
SECTION GOVERN	LEFT	J-1 MAX.	J-2 LEFT	J-3 MAX.L	MAX.R	J-4 MAX.	J-5 LEFT	J-6 MAX.L	MAX.R	J-7	J-8 MAX.	J-9 MAX.L	MAX.R
NET U-FLG STRESS, σ				161	163		155	162	169		149	160	145
NET L-FLG STRESS, σ		79	145									166	89

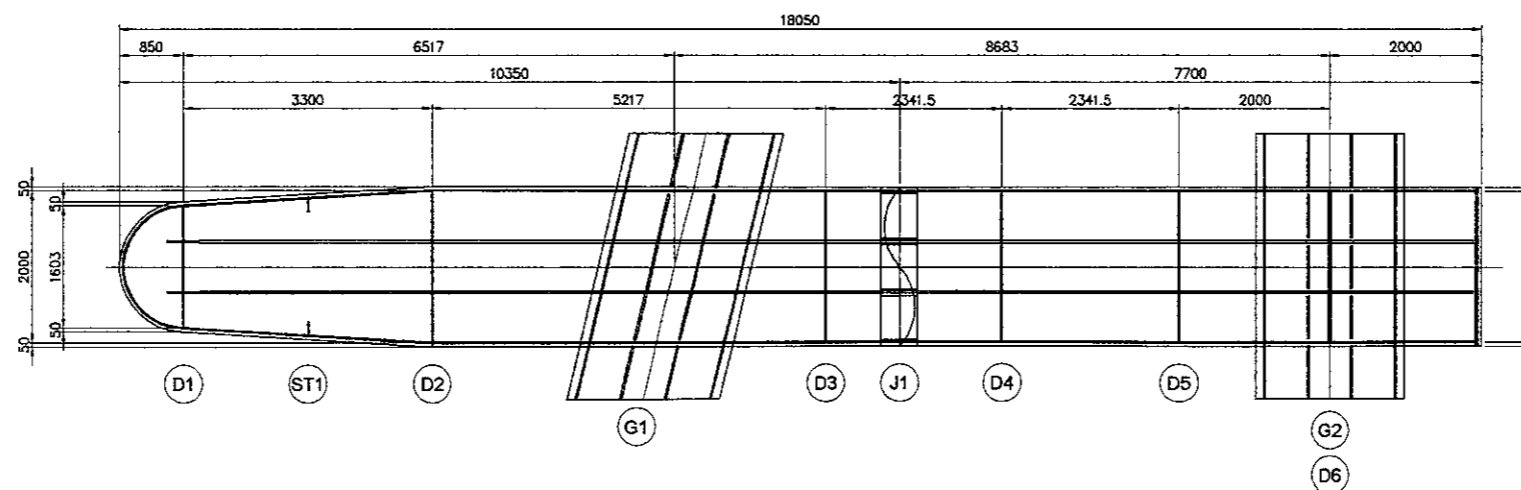
W = WIDTH
 H = HEIGHT
 TH = THICKNESS
 STRESS IN N/mm²

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

MERAK PB3-P13



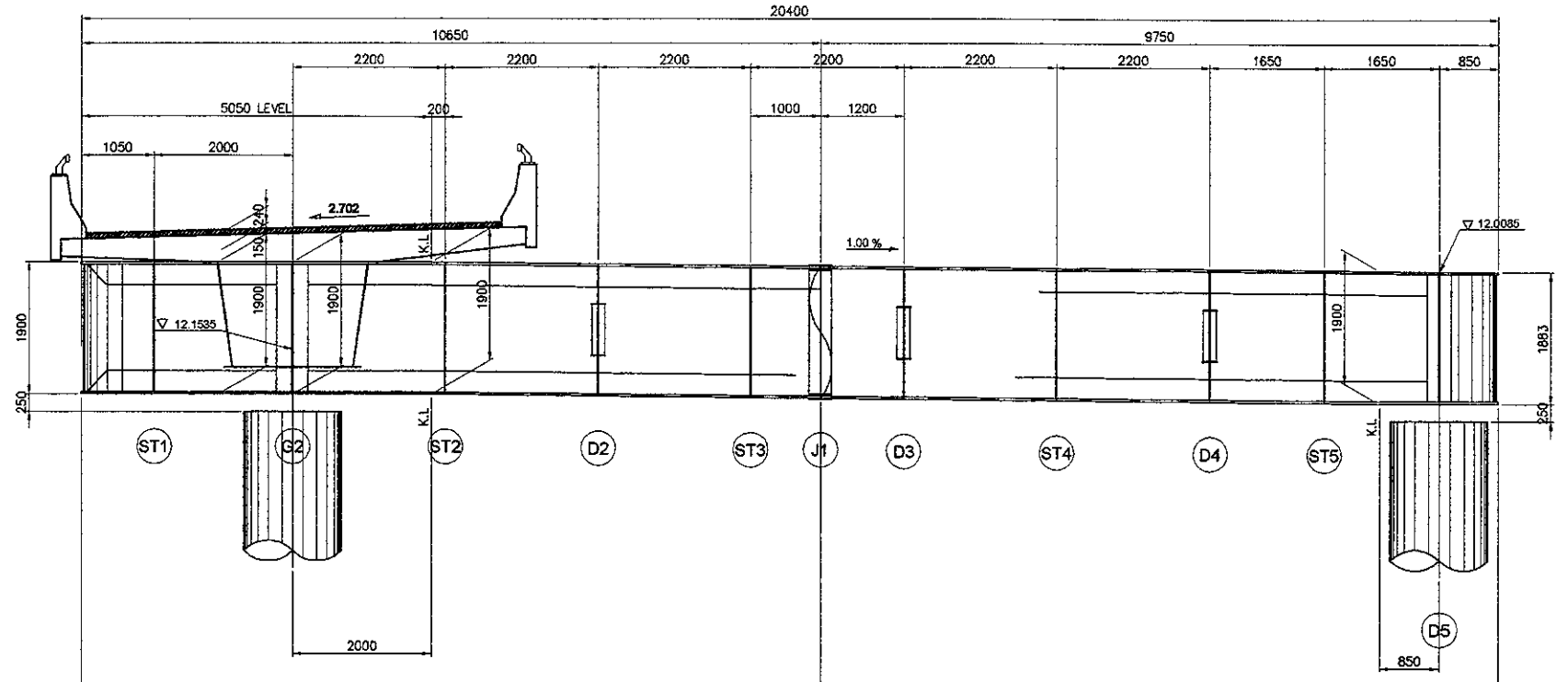
FABRICATION LENGTH	12	
FABRICATION QUALITY	SM400	
V.Stiff	170x14	
V.Stiff QUALITY	SM400	
UFLG WIDTH	2100~1703	2100
UFLG THICKNESS	38	25
UFLG QUALITY	SM490Y	SM490Y
URIB THICKNESS	2-300x30	2-300x30
URIB QUALITY	SM490Y	SM490Y
WEB THICKNESS	22	16
WEB QUALITY	SM490Y	SM490Y
LFLG WIDTH	2100~1703	2100
LFLG THICKNESS	18	15
LFLG QUALITY	SM490Y	SM490Y
LRIB THICKNESS	2-300x30	2-300x30
LRIB QUALITY	SM490Y	SM490Y



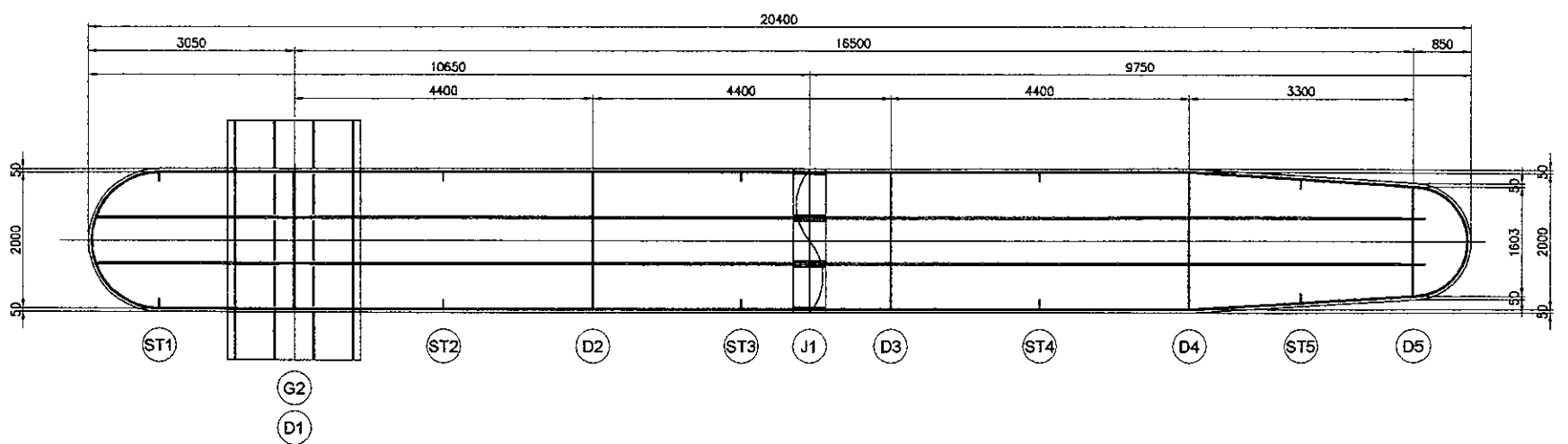
SECTIONAL DIMENSION OF GIRDER P12

 SCALE : 1:100

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

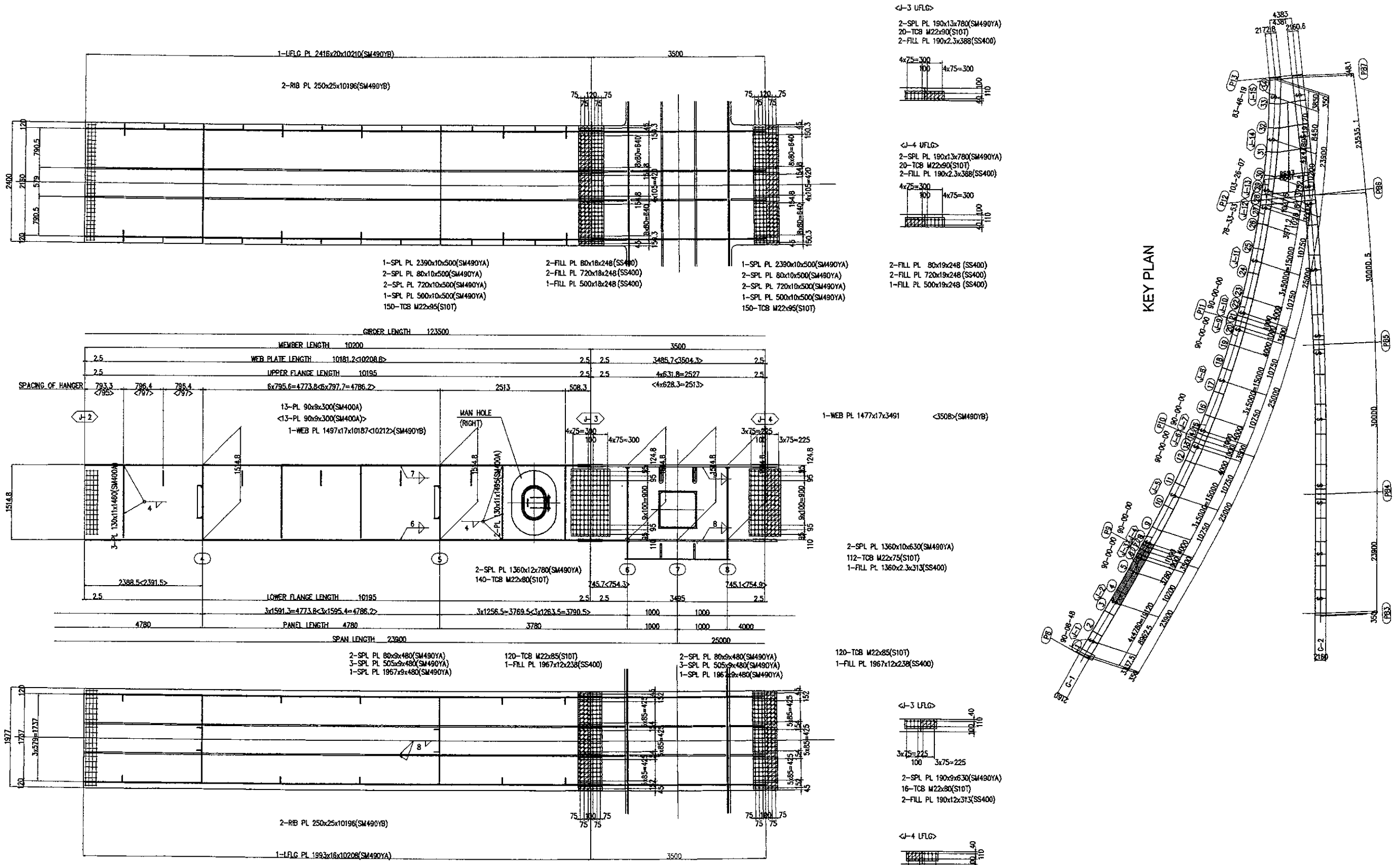


FABRICATION LENGTH		12
FABRICATION QUALITY		SM400
V.Stiff		130x11
V.Stiff QUALITY		SM400
UFLG WIDTH	2100	2100/1703
UFLG THICKNESS	22	12
UFLG QUALITY	SM490Y	SM400
URIB THICKNESS	2-300x30	2-300x30
URIB QUALITY	SM490Y	SM400
WEB THICKNESS	16	13
WEB QUALITY	SM490Y	SM400
UFLG WIDTH	2100	2100~1703
UFLG THICKNESS	15	12
UFLG QUALITY	SM490Y	SM400
URIB THICKNESS	2-300x30	2-300x30
URIB QUALITY	SM490Y	SM400



SECTIONAL DIMENSION OF GIRDER PB4
 SCALE : 1:100

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



<-3 UFLG>
 2-SPL PL 190x13x780(SM490YA)
 20-TCB M22x80(S10T)
 2-FILL PL 190x2.3x368(SS400)

<-4 UFLG>
 2-SPL PL 190x13x780(SM490YA)
 20-TCB M22x80(S10T)
 2-FILL PL 190x2.3x368(SS400)

KEY PLAN

1-WEB PL 1477x17x3461 <3508>(SM490YB)

2-SPL PL 1360x10x630(SM490YA)
 112-TCB M22x75(S10T)
 1-FILL PL 1360x2.3x313(SS400)

120-TCB M22x85(S10T)
 1-FILL PL 1967x12x238(SS400)

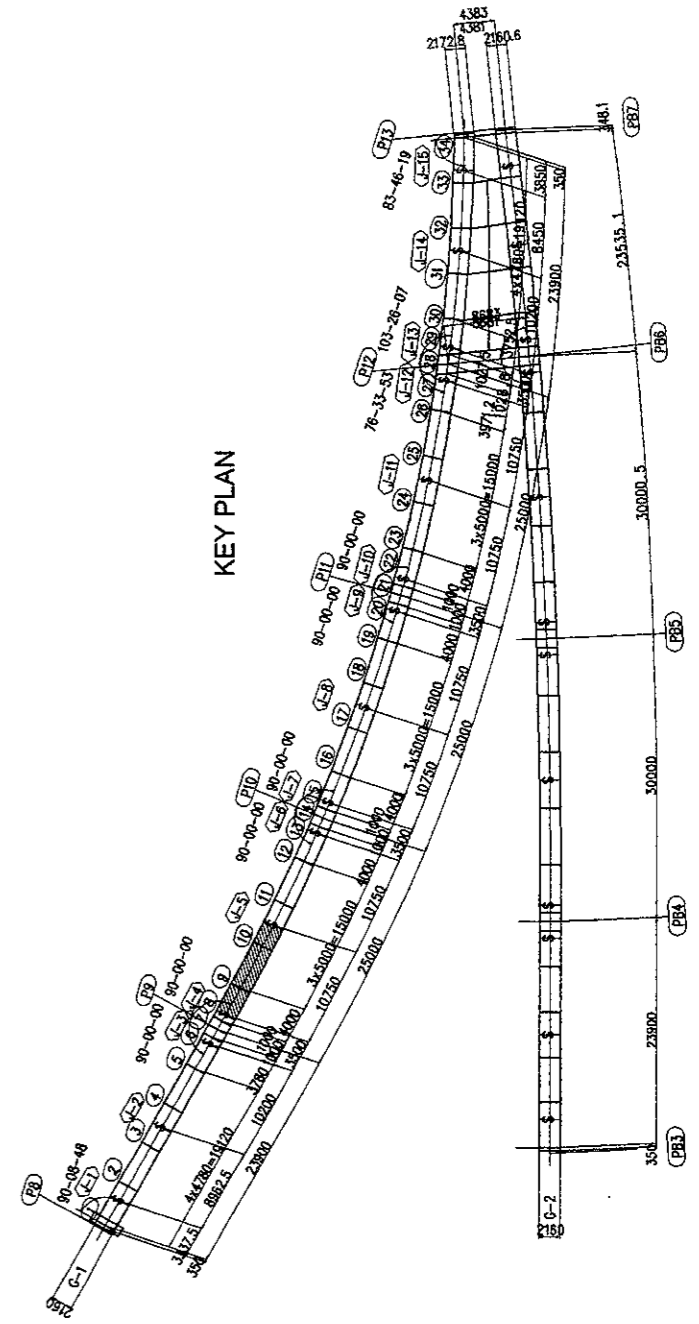
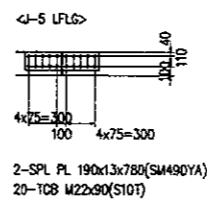
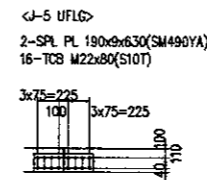
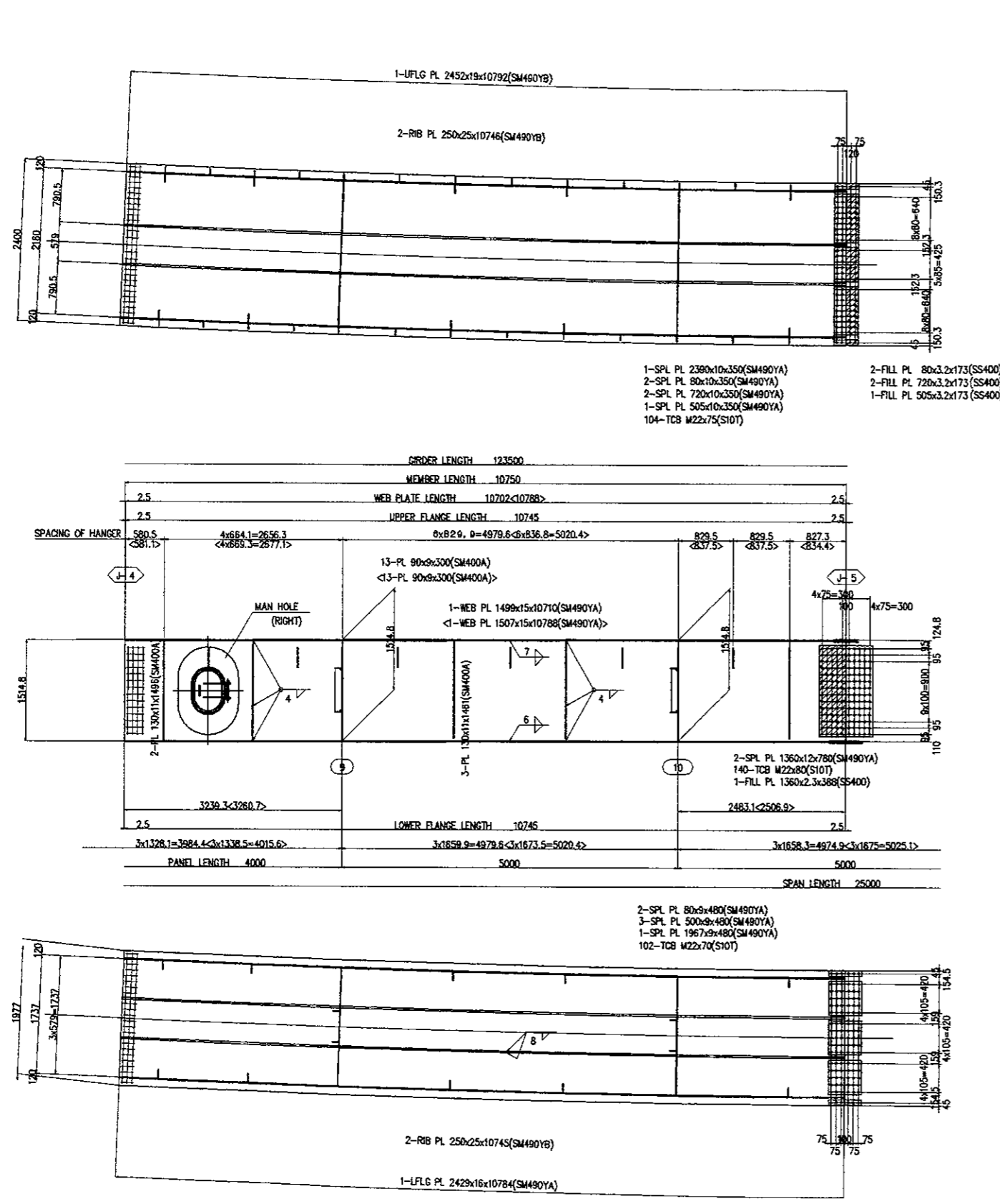
<-3 UFLG>
 3x75=225
 100 3x75=225

2-SPL PL 190x9x630(SM490YA)
 16-TCB M22x80(S10T)
 2-FILL PL 190x12x313(SS400)

<-4 UFLG>
 3x75=225
 100 3x75=225

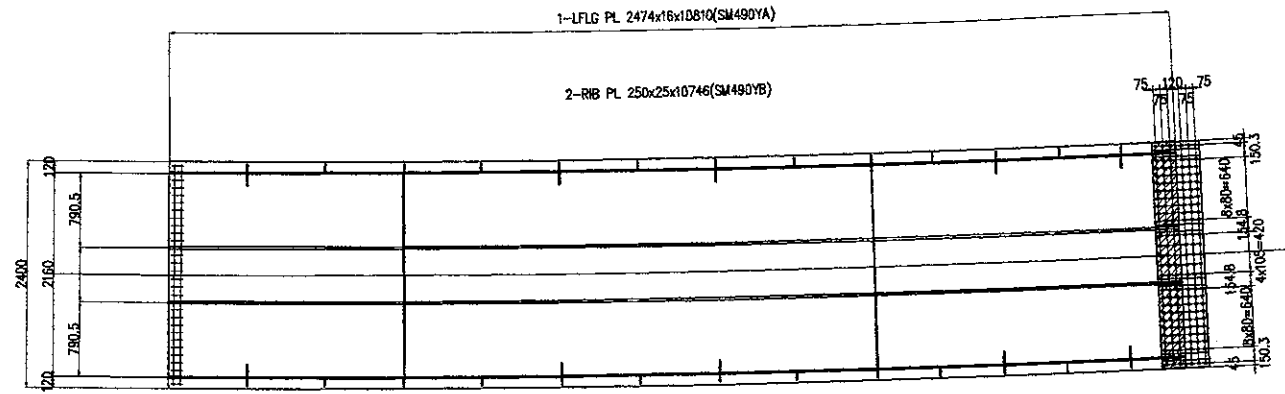
2-SPL PL 190x10x630(SM490YA)
 16-TCB M22x80(S10T)
 2-FILL PL 190x12x313(SS400)

NOTES :
 1. ALL STEEL GRADE SHALL BE SM400A UNLESS OTHERWISE NOTED
 2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
 3. MARK "*" SHALL BE HIGH TENSION TORSION TYPE BOLT

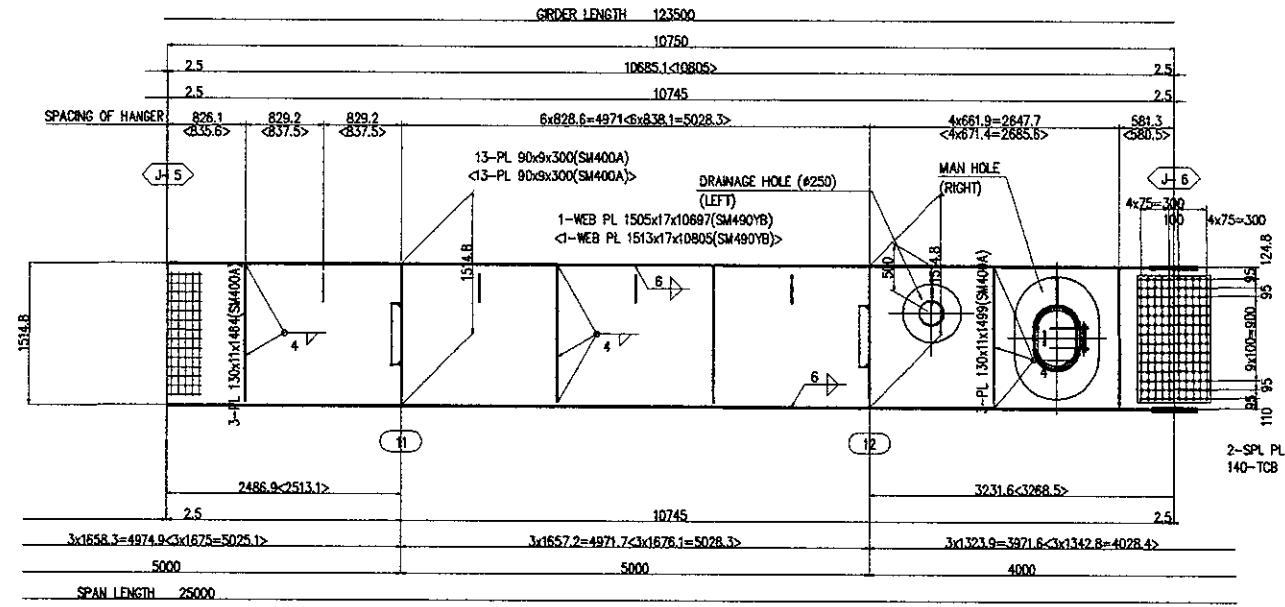


NOTES :
 1. ALL STEEL GRADE SHALL BE SM400A UNLESS OTHERWISE NOTED
 2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
 3. MARK "*" SHALL BE HIGH TENSION TORSION TYPE BOLT

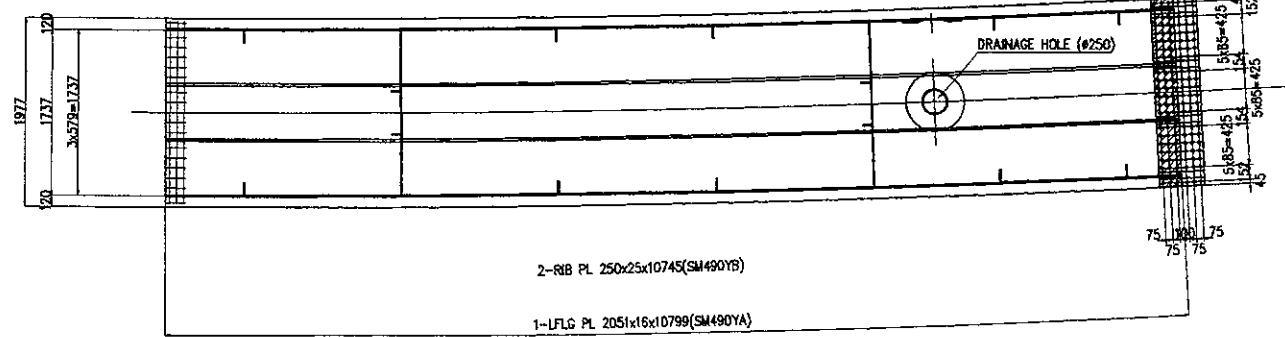
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	S. MATSUI	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



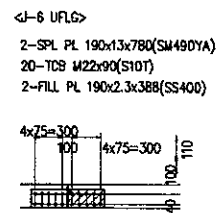
- 1-SPL PL 2390x10x500(SM490YA)
- 2-SPL PL 80x10x500(SM490YA)
- 2-SPL PL 720x10x500(SM490YA)
- 1-SPL PL 500x10x500(SM490YA)
- 150-TCB M22x75(S10T)
- 2-FILL PL 80x2.3x248(SS400)
- 2-FILL PL 720x2.3x248(SS400)
- 1-FILL PL 500x2.3x248(SS400)



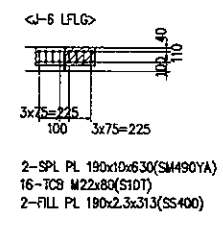
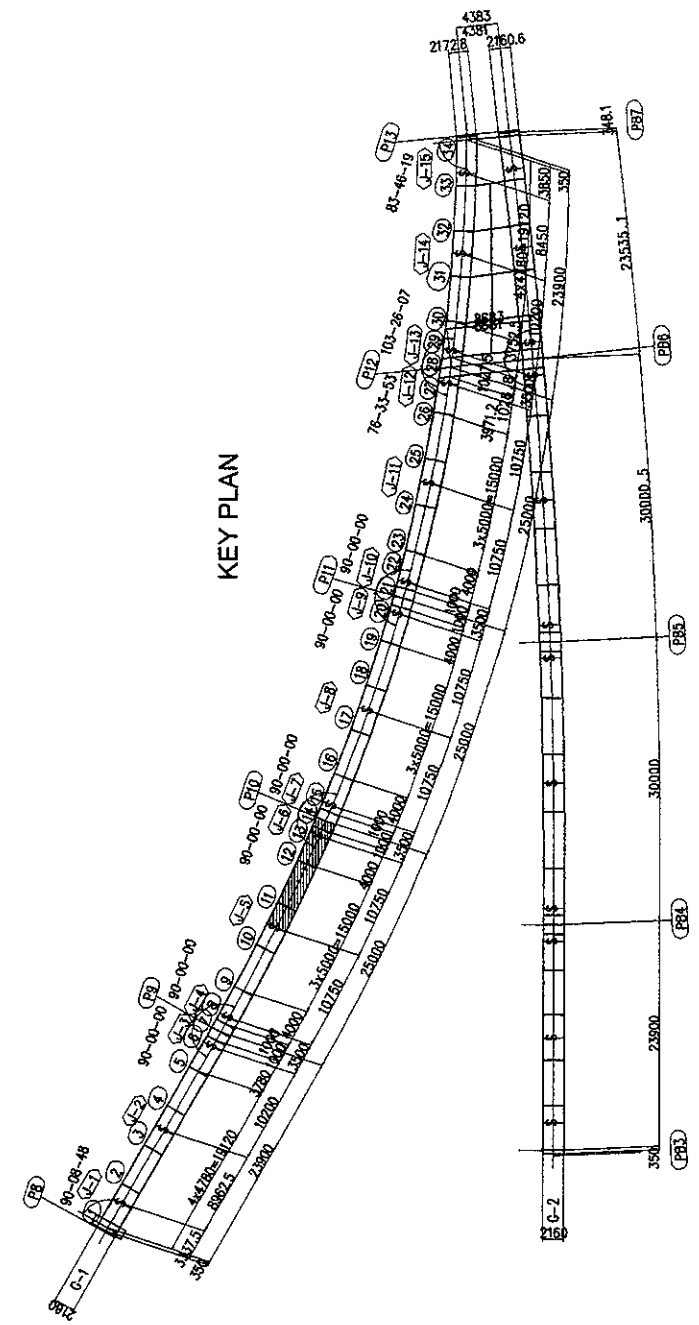
- 2-SPL PL 80x9x480(SM490YA)
- 3-SPL PL 505x9x480(SM490YA)
- 1-SPL PL 1967x9x480(SM490YA)
- 120-TCB M22x80(S10T)
- 1-FILL PL 1967x6x238 (SS400)



- 2-SPL PL 1360x12x780(SM490YA)
- 140-TCB M22x80(S10T)



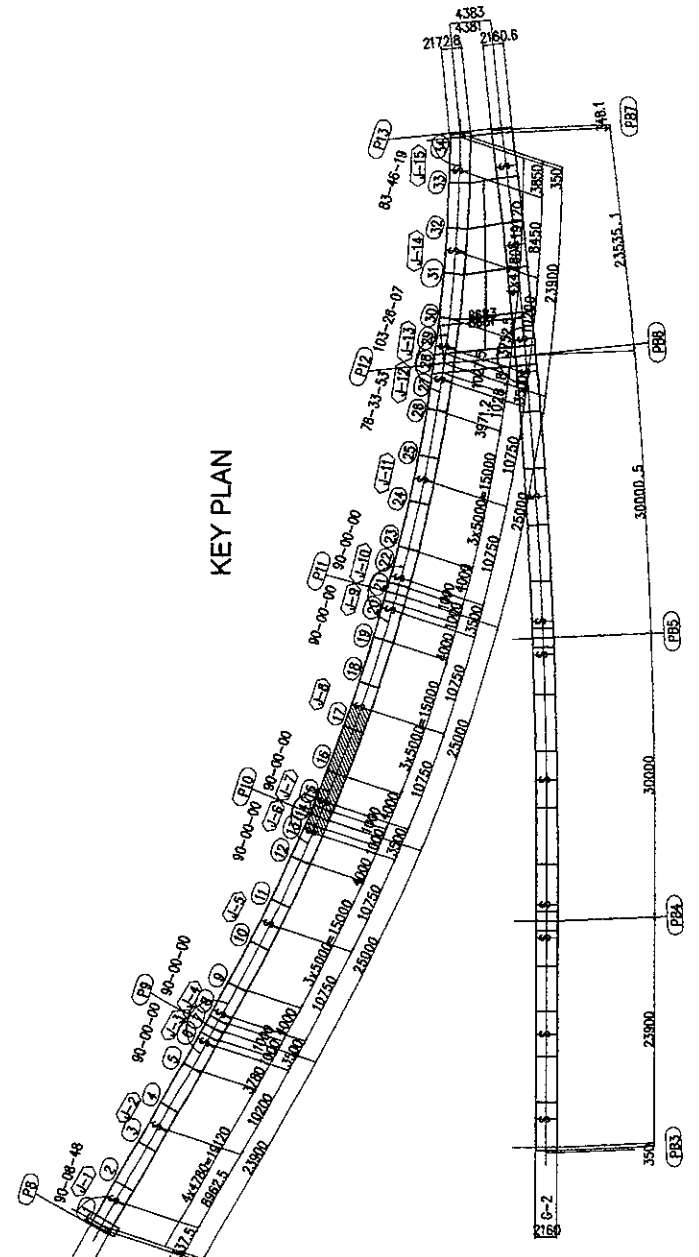
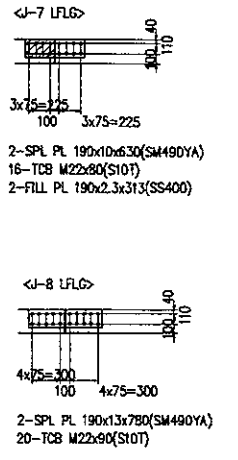
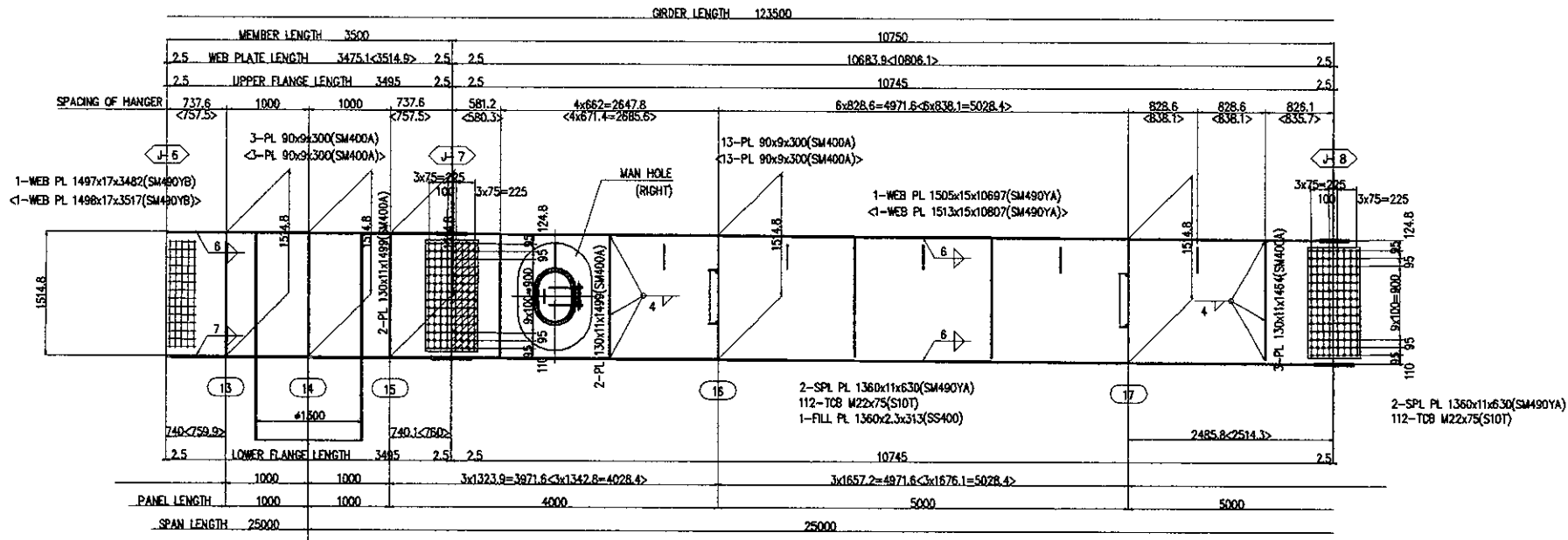
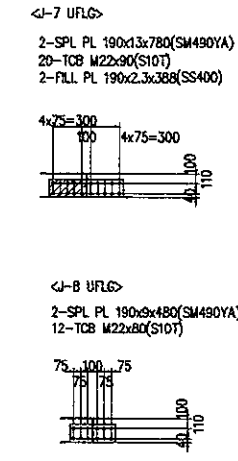
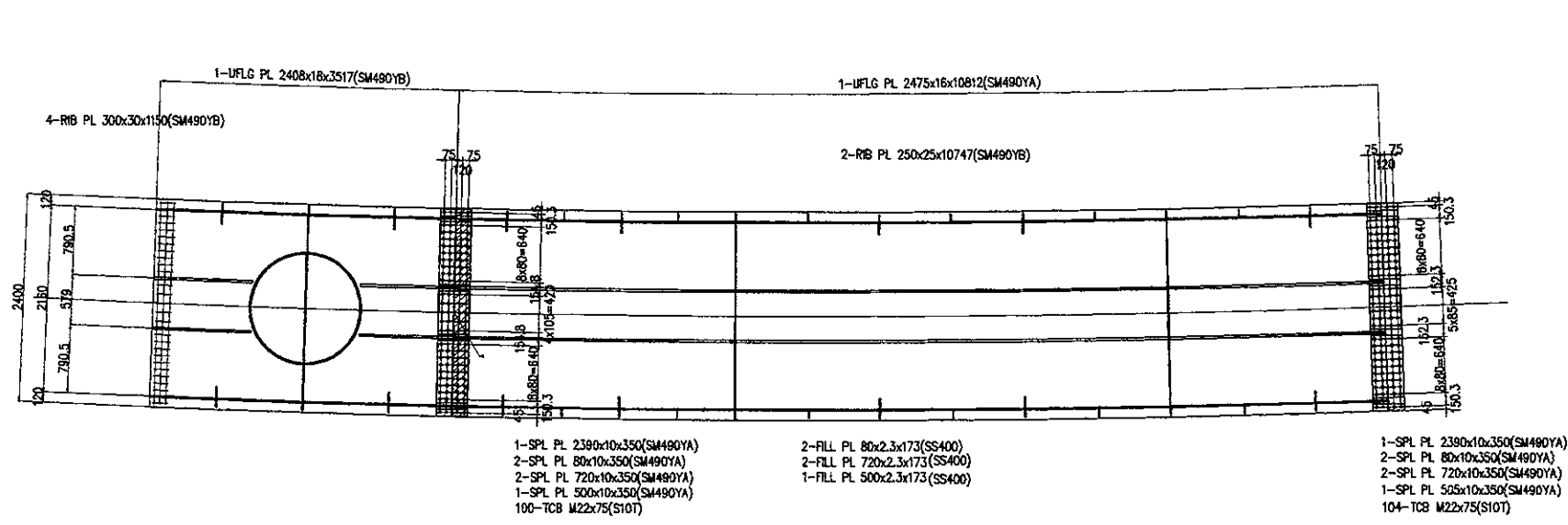
- 2-SPL PL 190x13x780(SM490YA)
- 20-TCB M22x90(S10T)
- 2-FILL PL 190x2.3x388(SS400)



- 2-SPL PL 190x10x630(SM490YA)
- 16-TCB M22x80(S10T)
- 2-FILL PL 190x2.3x313(SS400)

NOTES :

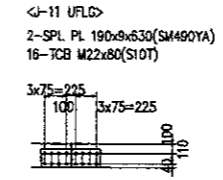
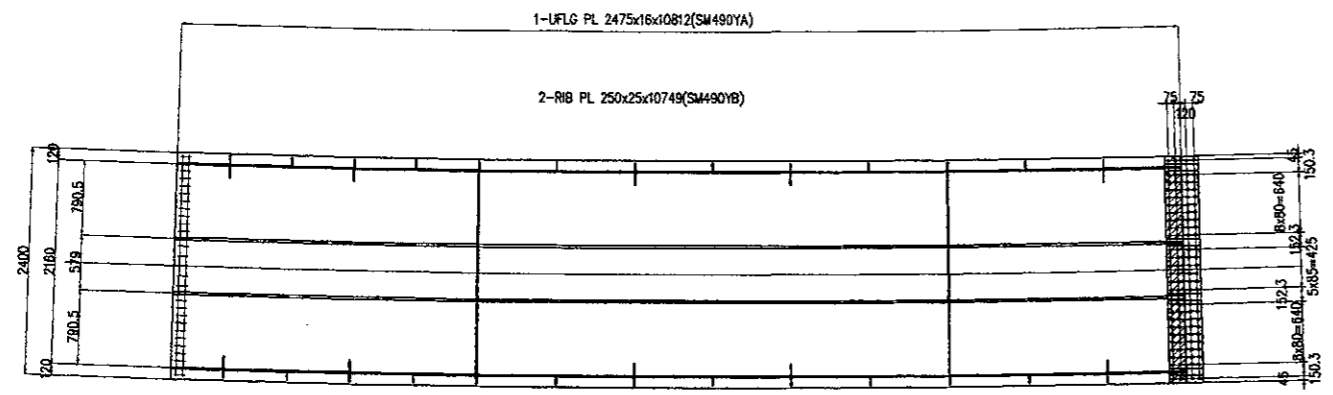
1. ALL STEEL GRADE SHALL BE SM400A UNLESS OTHERWISE NOTED
2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
3. MARK "H" SHALL BE HIGH TENSION TORSION TYPE BOLT



NOTES :

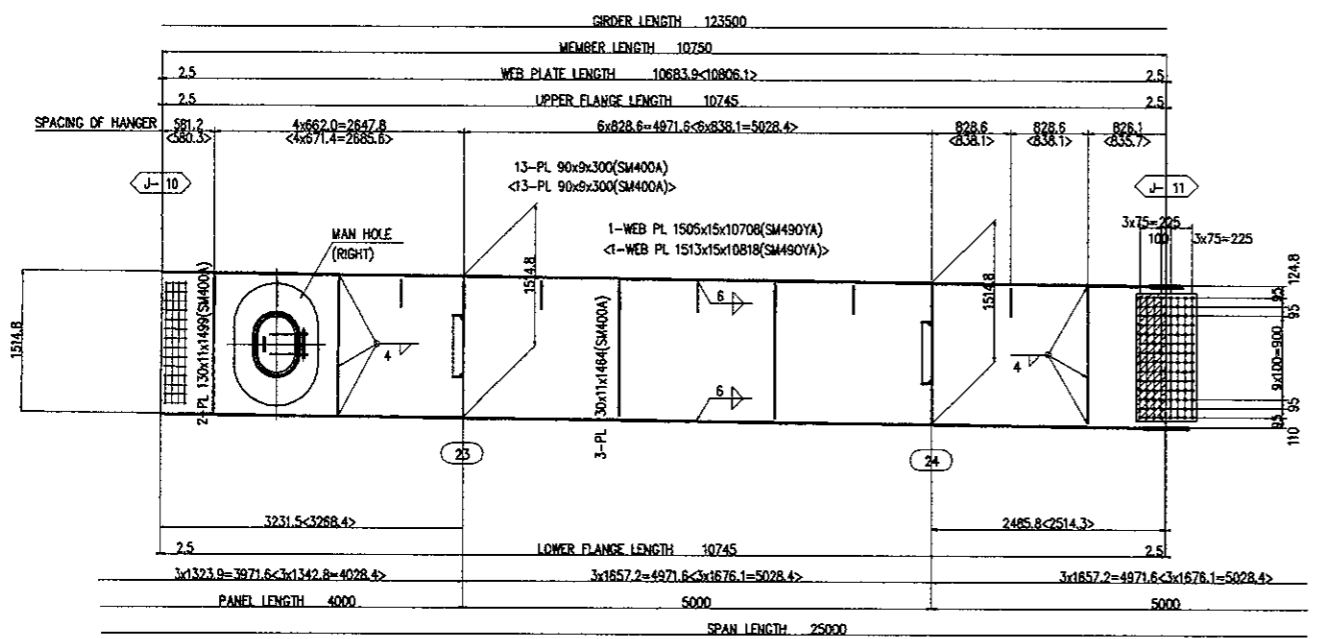
1. ALL STEEL GRADE SHALL BE SM400A UNLESS OTHERWISE NOTED
2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
3. MARK "H" SHALL BE HIGH TENSION TORSION TYPE BOLT

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



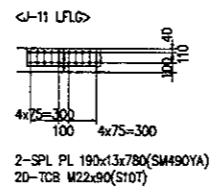
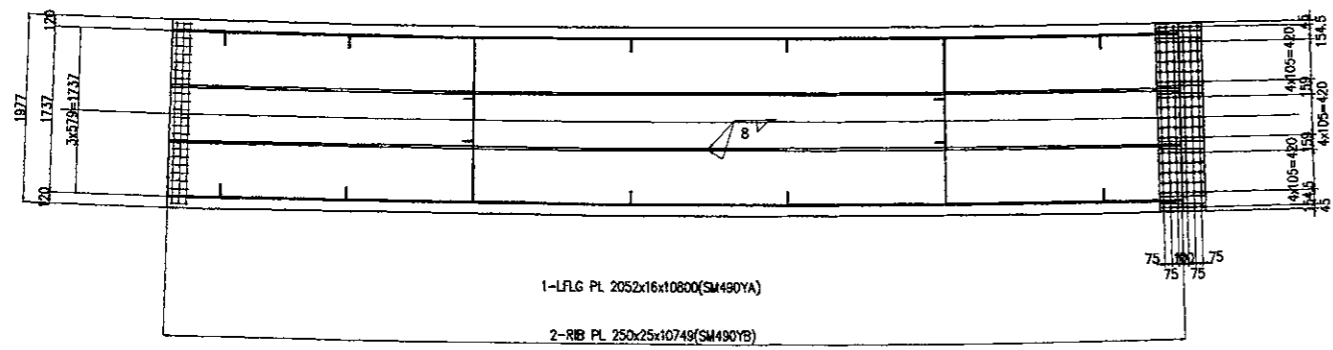
- 1-SPL PL 2390x10x350(SM490YA)
- 2-SPL PL 80x10x350(SM490YA)
- 2-SPL PL 720x10x350(SM490YA)
- 1-SPL PL 505x10x350(SM490YA)
- 104-TCB M22x75(S10T)

- 2-FLL PL 80x3.2x173(SS400)
- 2-FLL PL 720x3.2x173(SS400)
- 1-FLL PL 505x3.2x173(SS400)

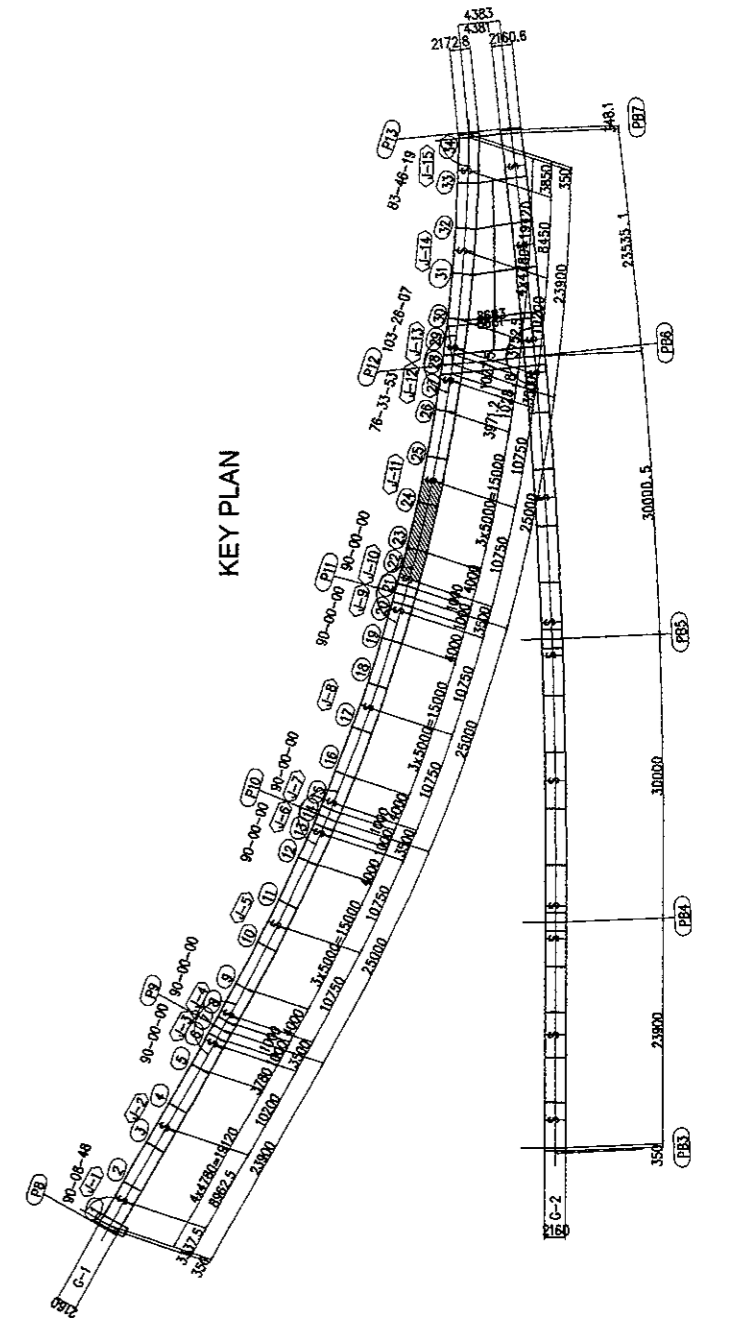


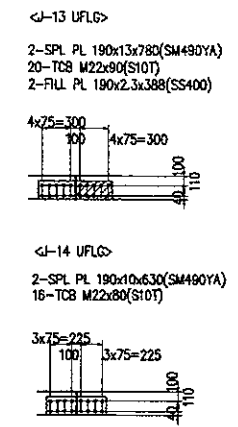
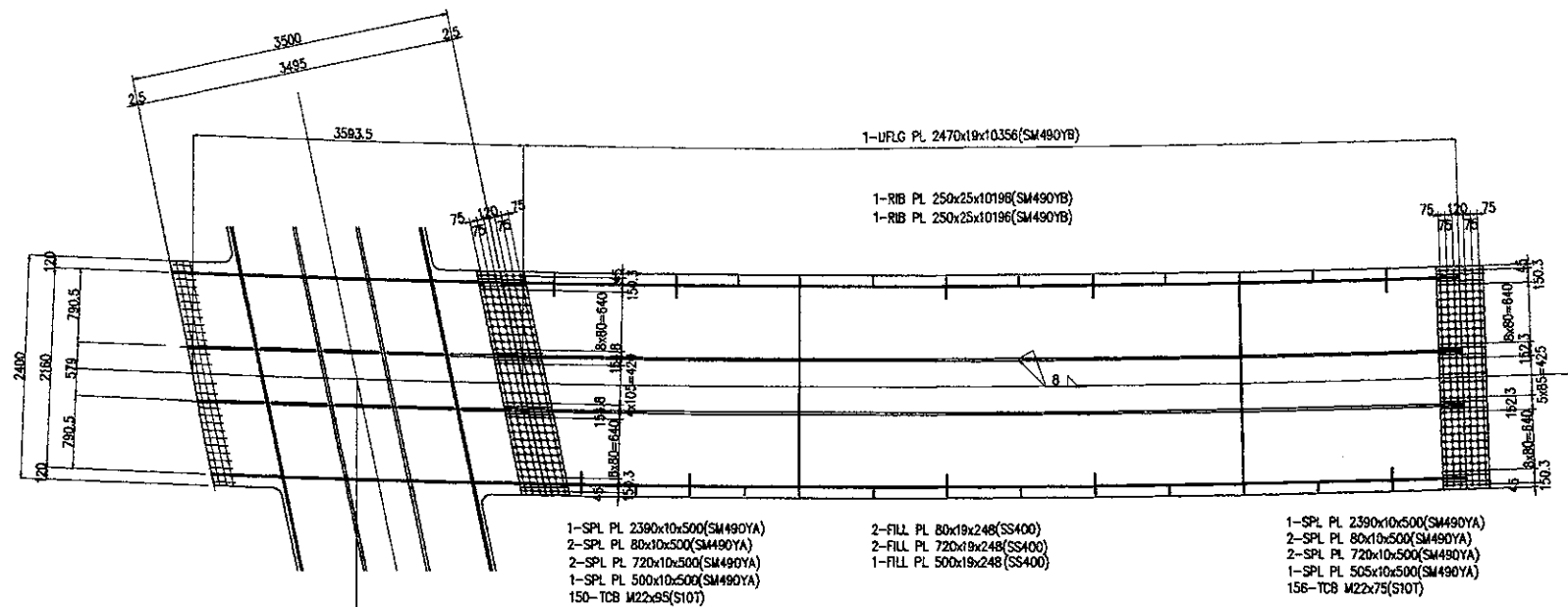
- 2-SPL PL 80x9x480(SM490YA)
- 3-SPL PL 500x9x480(SM490YA)
- 1-SPL PL 1967x9x480(SM490YA)
- 102-TCB M22x70(S10T)

- 2-SPL PL 1360x11x630(SM490YA)
- 112-TCB M22x75(S10T)
- 1-FLL PL 1360x2.3x313(SS400)

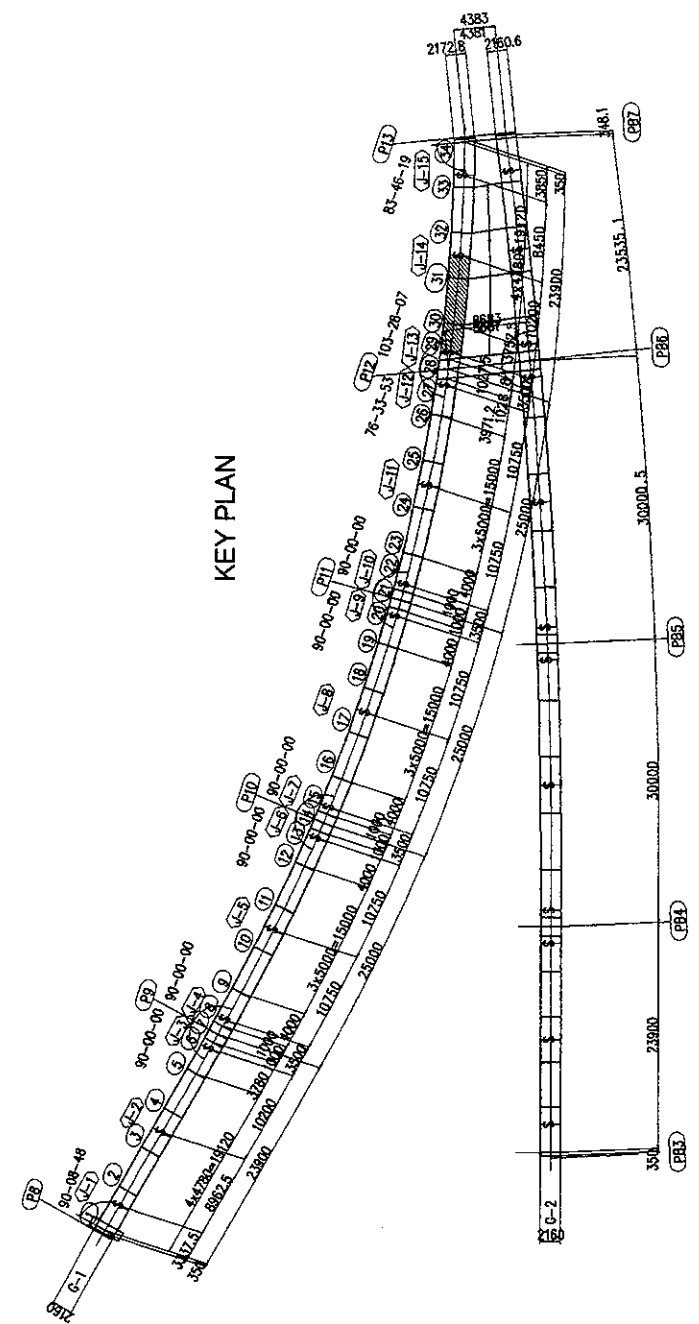
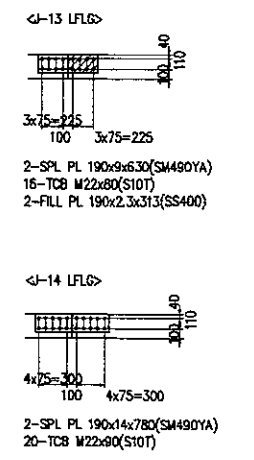
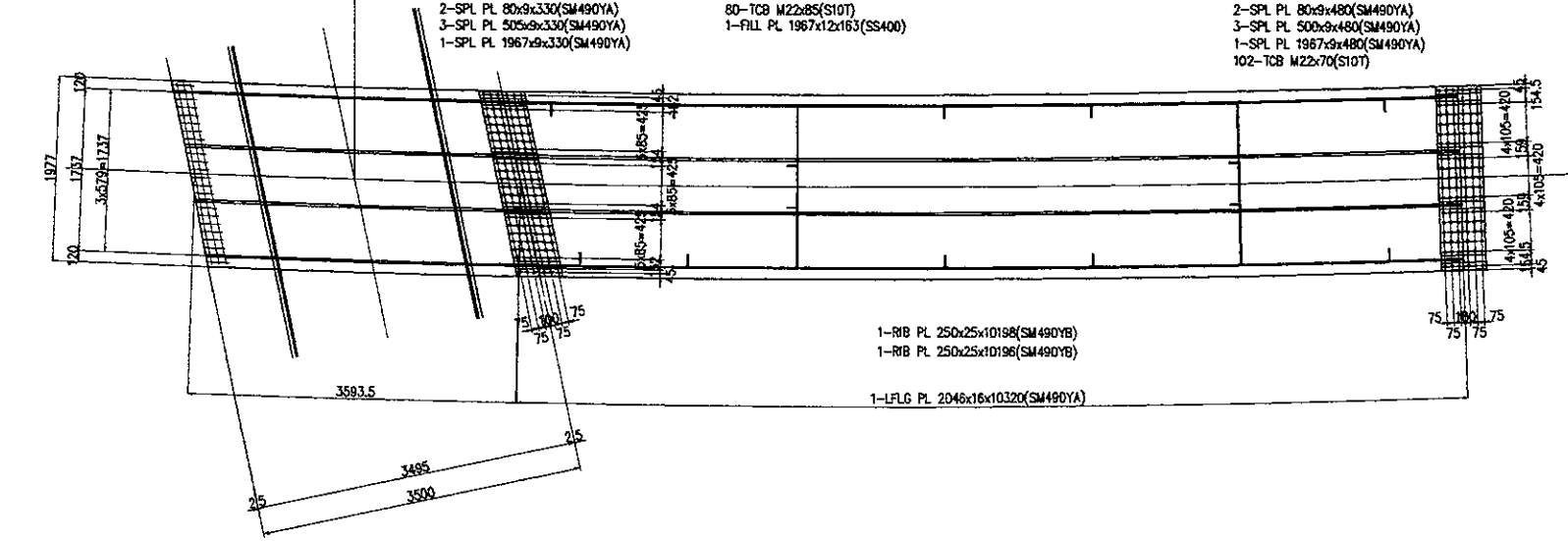


- 2-SPL PL 190x13x780(SM490YA)
- 20-TCB M22x90(S10T)

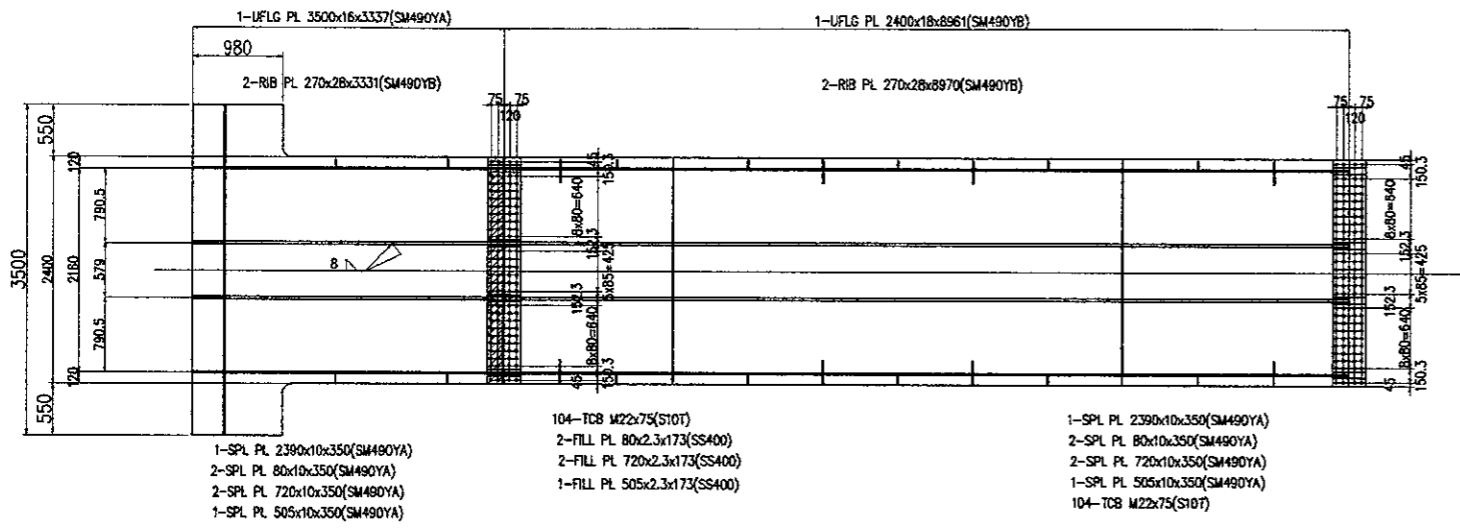




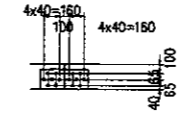
MEMBER LENGTH 3588.5		10153.3	
2.5 WEB PLATE LENGTH	3584.9<3596.8>	2.5	10337.5<9958.1>
2.5 UPPER FLANGE LENGTH	3593.5	2.5	10148.3
SPACING OF HANGER			
	557.8 403.3	4x653.9=2655.4 4x587=2348	8x792.2=4752.8<3x801.2=4807.2>
			792.2 792.2 792.7 792.7
			<801.2> <801.2> <798.7>
			13-PL 90x9x300(SM400A) <13-PL 90x9x300(SM400A)>
			1-WEB PL 1501x15x10371(SM490YA) <1-WEB PL 1508x15x 9982(SM490YA)>
			3x75=225 100 3x75=225
			MAN HOLE (RIGHT)
			2-SPL PL 1360x10x630(SM490YA) 112-TCB M22x75(S10T) 1-FILL PL 1360x2.3x313(SS400)
			3-PL 180x11x48(SM400A)
			2-SPL PL 1360x10x630(SM490YA) 112-TCB M22x70(S10T)
			3x1584.3=4752.8<3x1602.4=4807.2>
			3x1584.3=4752.8<3x1602.4=4807.2>
SPAN LENGTH 25000		23900	
			2-SPL PL 80x9x330(SM490YA) 3-SPL PL 500x9x330(SM490YA) 1-SPL PL 1967x9x330(SM490YA)
			80-TCB M22x85(S10T) 1-FILL PL 1967x12x163(SS400)
			2-SPL PL 80x9x480(SM490YA) 3-SPL PL 500x9x480(SM490YA) 1-SPL PL 1967x9x480(SM490YA) 102-TCB M22x70(S10T)



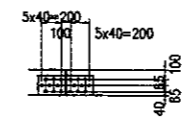
NOTES:
 1. ALL STEEL GRADE SHALL BE SM400A UNLESS OTHERWISE NOTED
 2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
 3. MARK "*" SHALL BE HIGH TENSION TORSION TYPE BOLT



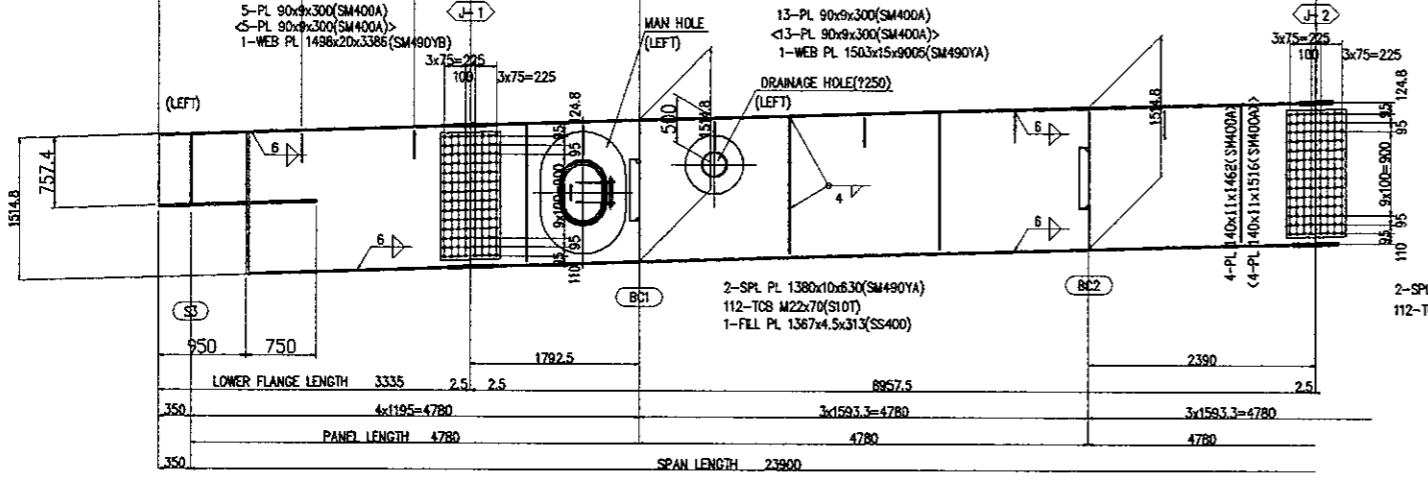
<J-1 UFLG>
 2-SPL PL 210x9x500(SM490YA)
 18-TCB M22x85(S10T)



<J-2 UFLG>
 2-SPL PL 210x10x580(SM490YA)
 18-TCB M22x85(S10T)



MEMBER LENGTH	3337.5			8962.5
WEB PLATE LENGTH	3335	2.5	2.5	8957.5
UPPER FLANGE LENGTH	3335	2.5	2.5	8957.5
SPACING OF HANGER	1545	1195.6	596.9	30597.5=1792.5
				9@796.7=7170

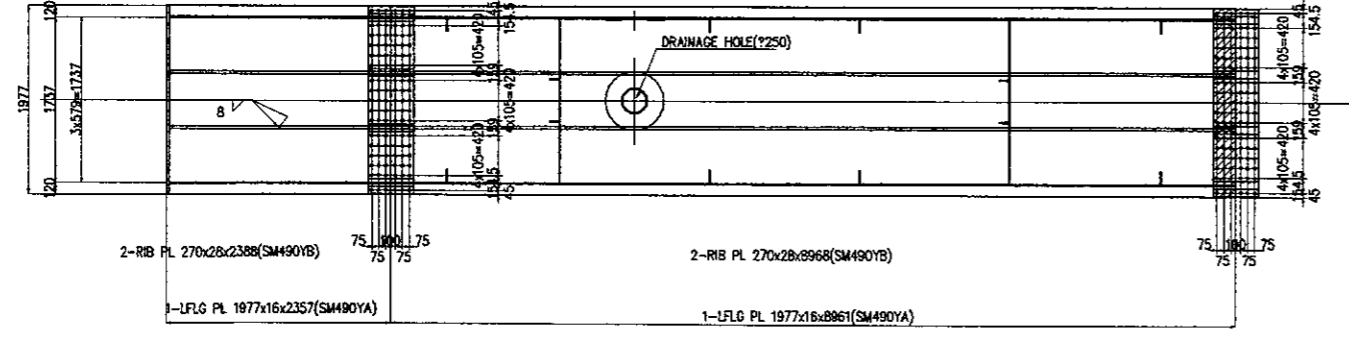


2-SPL PL 80x9x480(SM490YA)
 3-SPL PL 500x9x480(SM490YA)

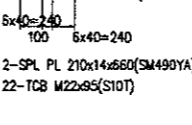
1-SPL PL 1967x9x480(SM490YA)
 102-TCB M22x70(S10T)

2-SPL PL 80x9x480(SM490YA)
 3-SPL PL 500x9x480(SM490YA)
 1-SPL PL 1967x9x480(SM490YA)

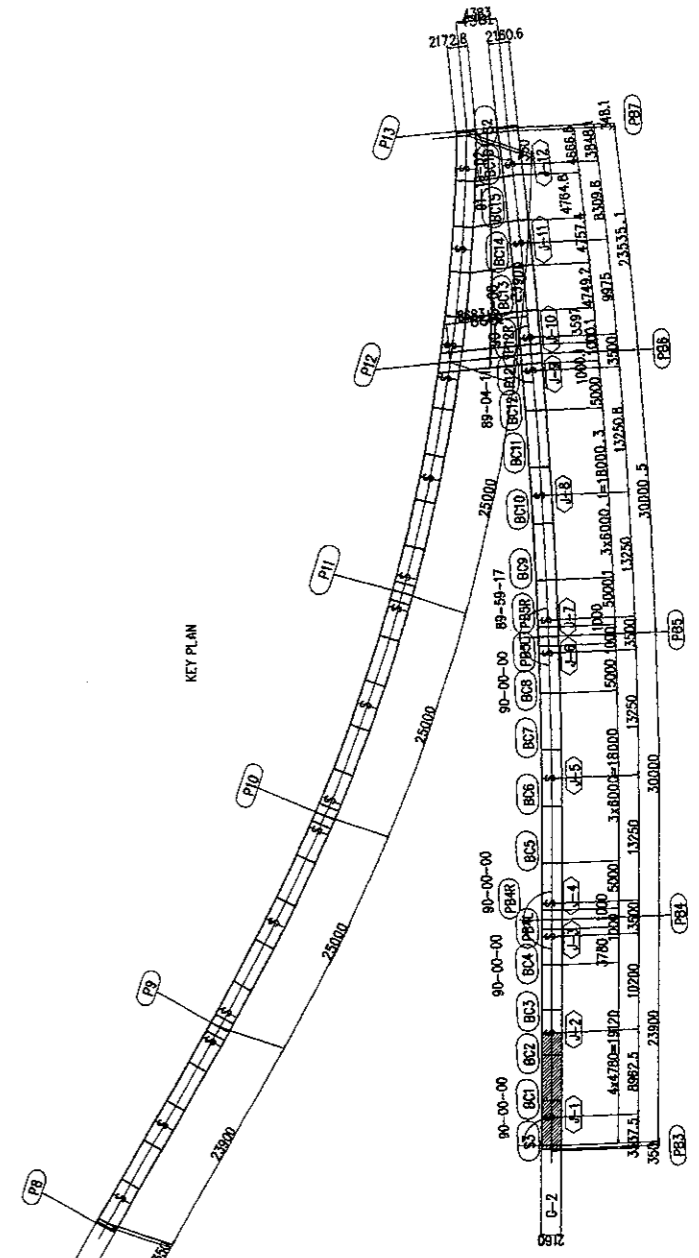
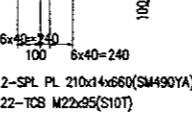
102-TCB M22x75(S10T)
 1-FILL PL 1967x2.3x238(SS400)



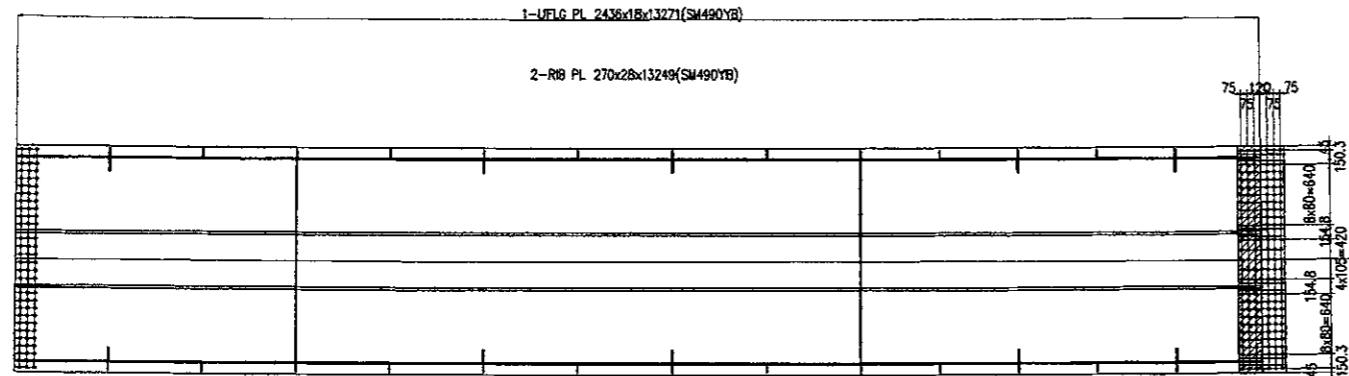
<J-1 LFLG>
 2-SPL PL 210x14x660(SM490YA)
 22-TCB M22x85(S10T)



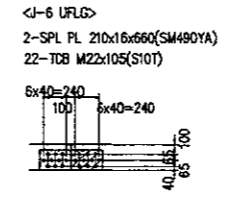
<J-2 LFLG>
 2-SPL PL 210x14x660(SM490YA)
 22-TCB M22x85(S10T)



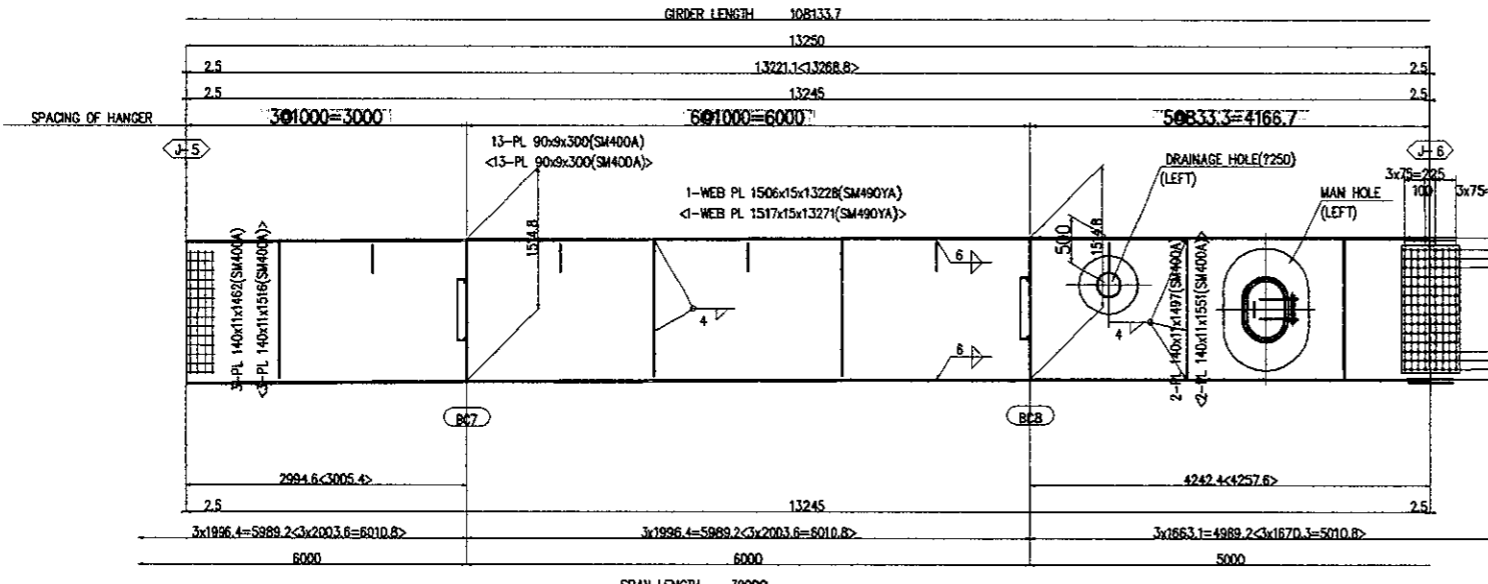
NOTES :
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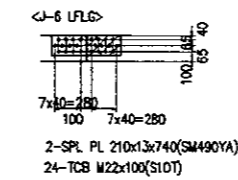
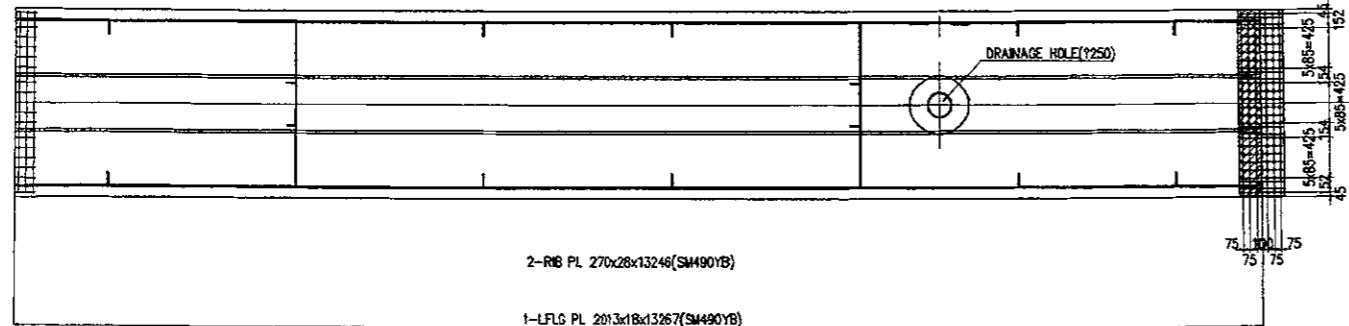
- 1-SPL PL 2390x10x500(SM490YA)
- 2-SPL PL 80x10x500(SM490YA)
- 2-SPL PL 720x10x500(SM490YA)
- 1-SPL PL 500x10x500(SM490YA)
- 150-TCB M22x80(S10T)
- 2-FILL PL 80x6x248(SS400)
- 2-FILL PL 720x6x248(SS400)
- 1-FILL PL 500x6x248(SS400)



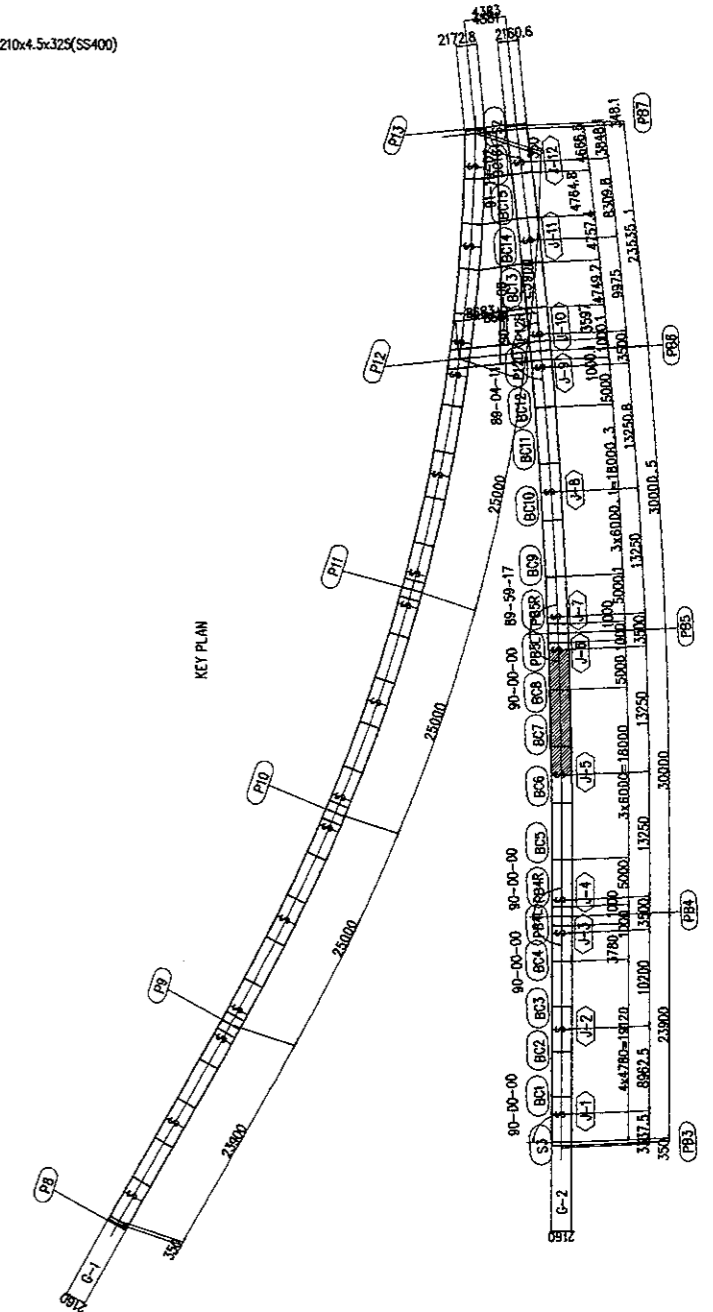
2-FILL PL 210x4.5x325(SS400)

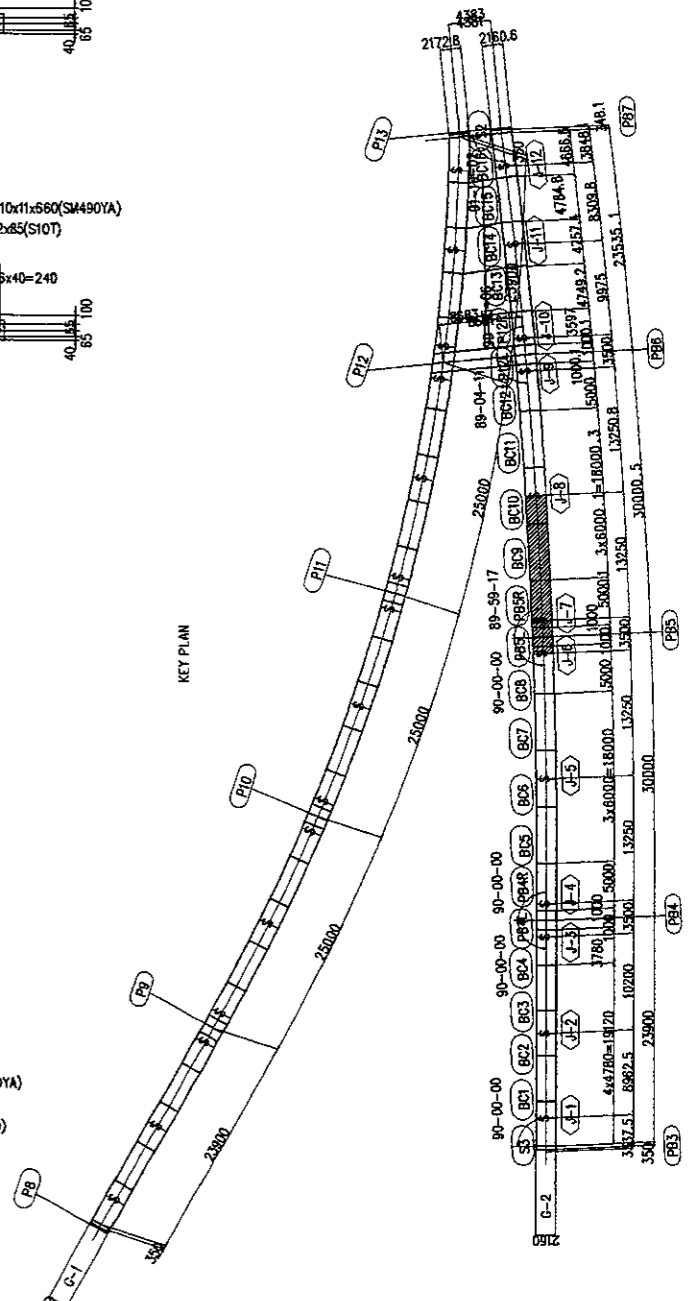
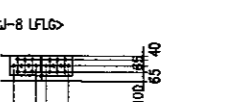
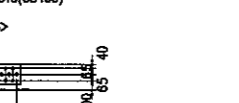
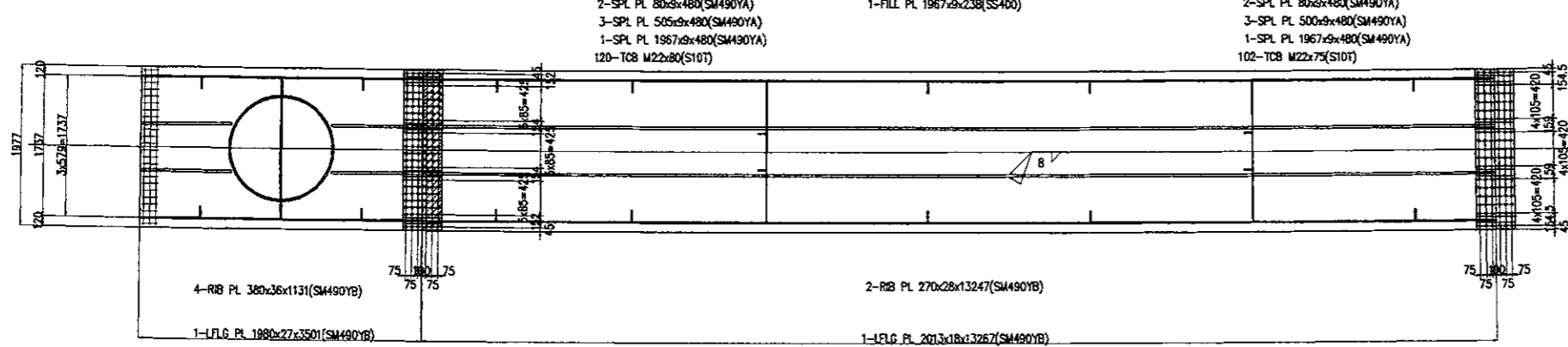
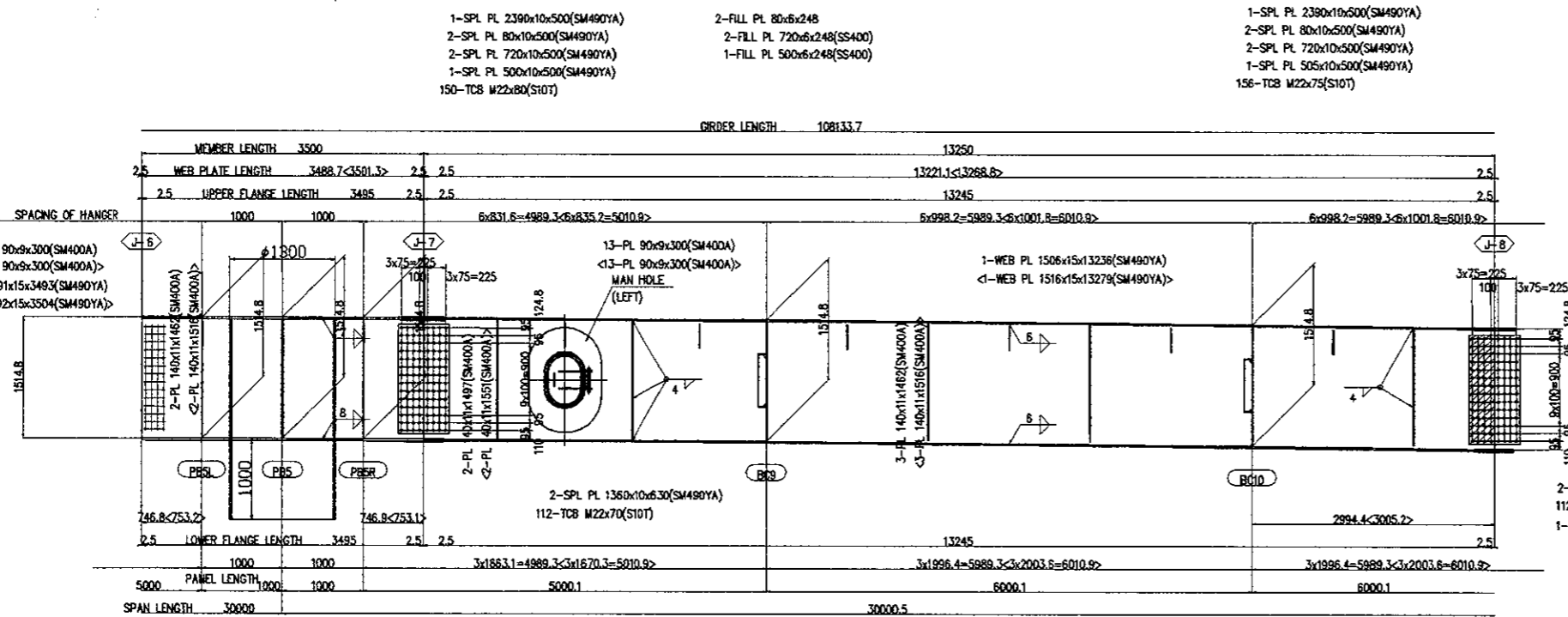
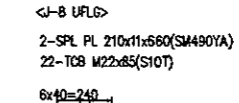
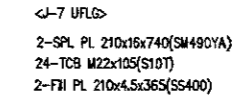
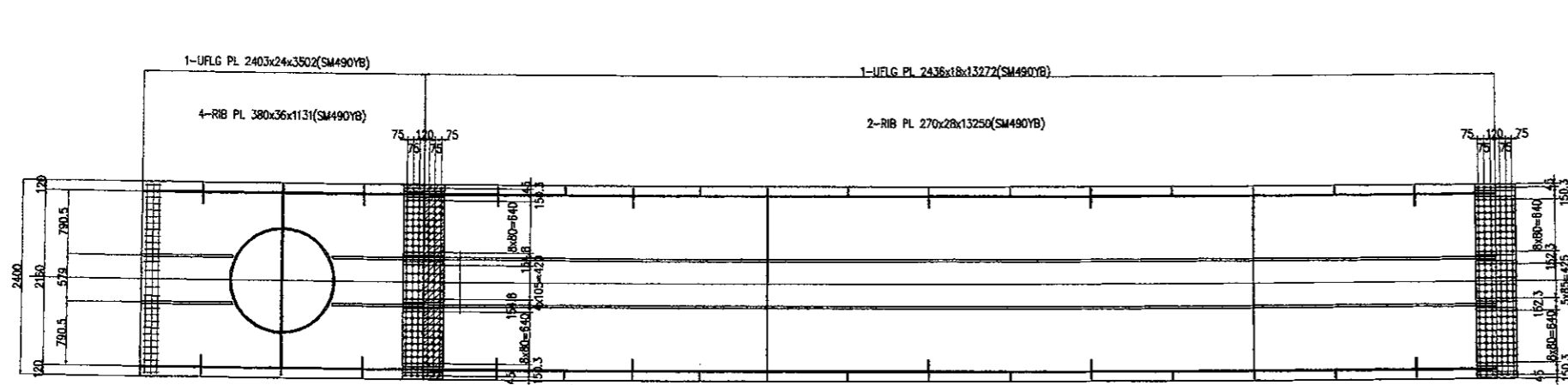


- 2-SPL PL 80x9x480(SM490YA)
- 3-SPL PL 505x9x480(SM490YA)
- 1-SPL PL 1867x9x480(SM490YA)
- 120-TCB M22x80(S10T)
- 1-FILL PL 1967x9x238(SS400)



2-FILL PL 210x4.5x325(SS400)

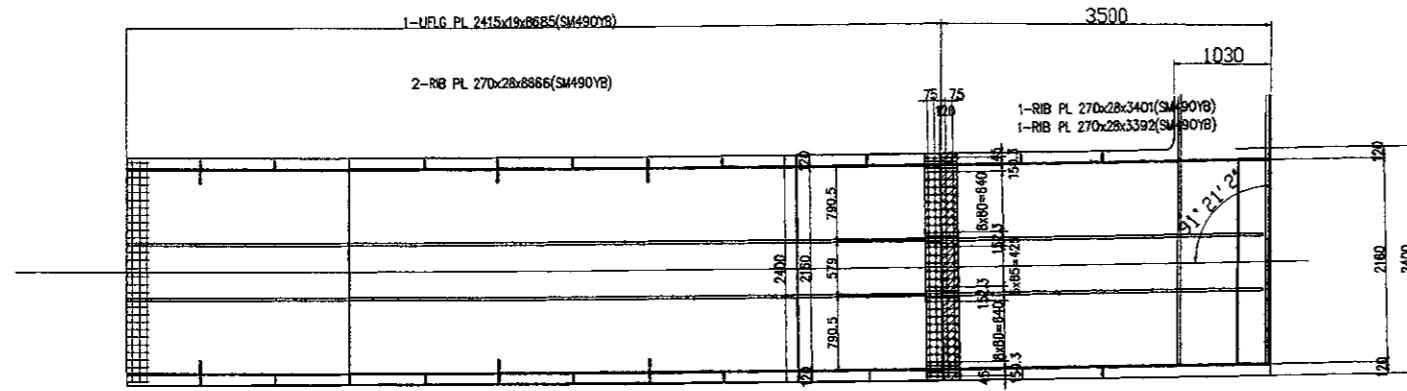




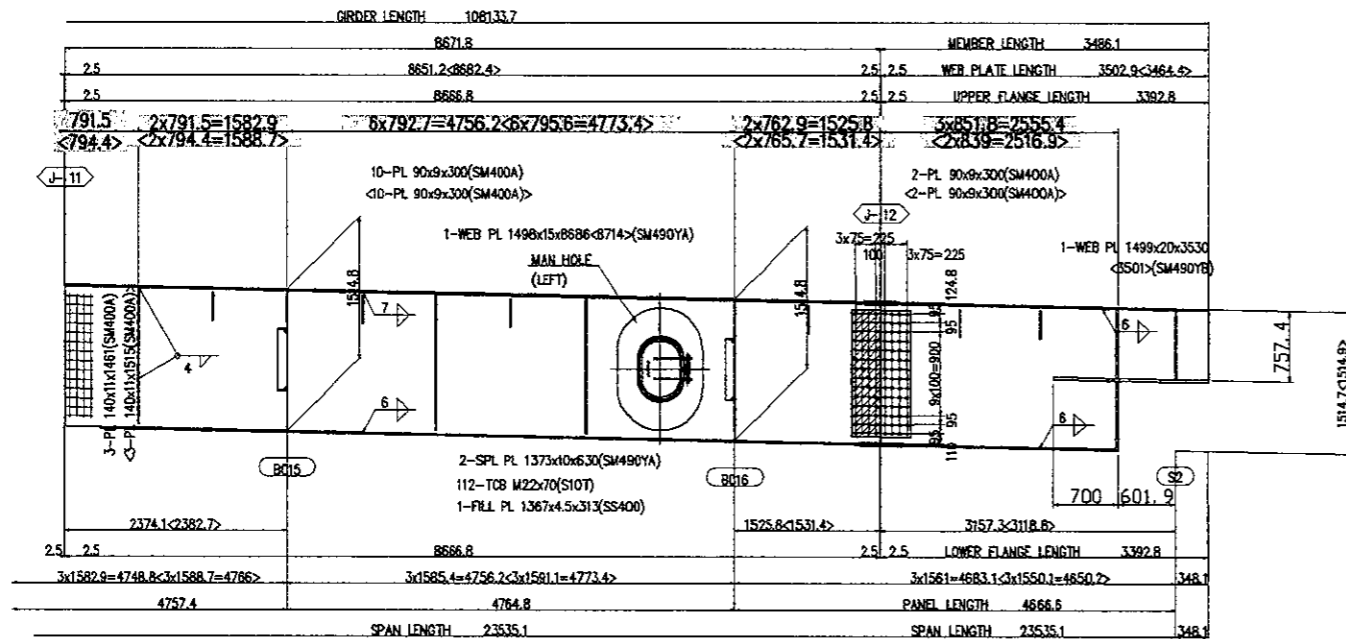
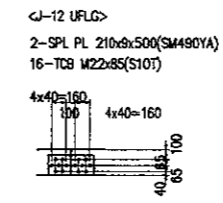
NOTES :

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2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
3. MARK "+" SHALL BE HIGH TENSION TORSION TYPE BOLT

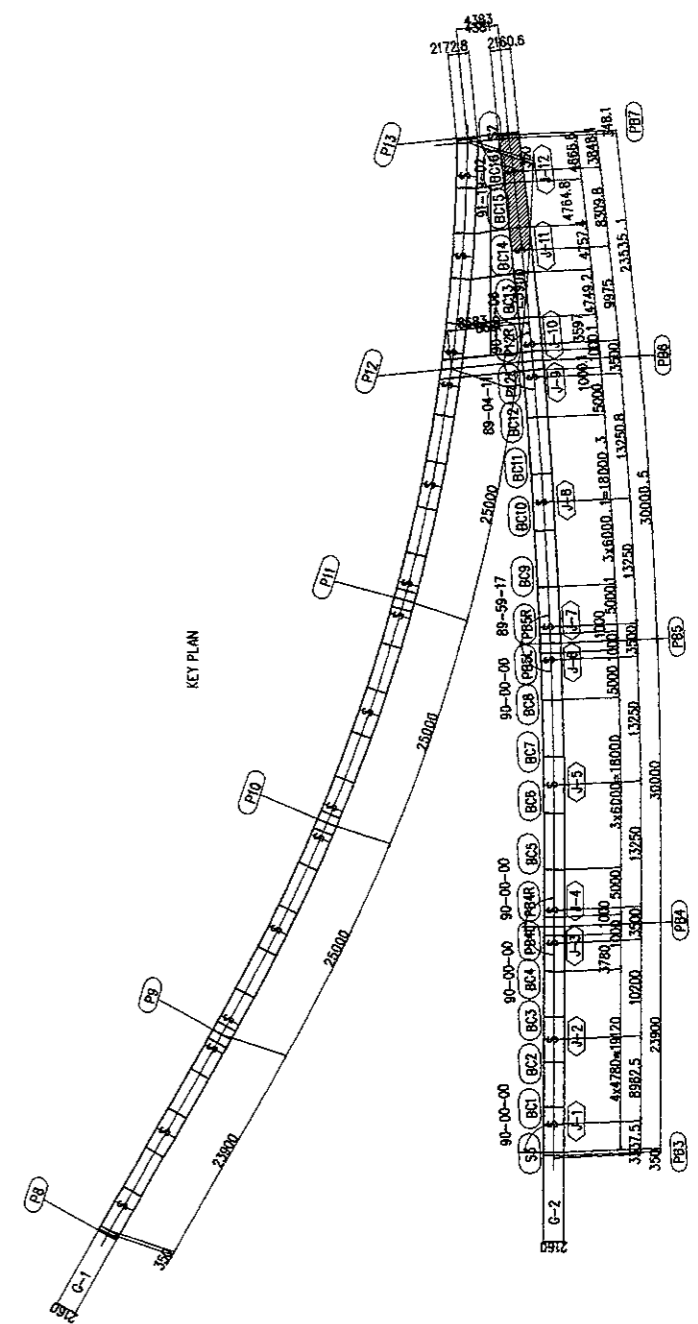
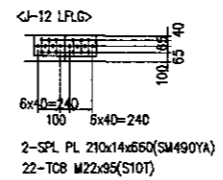
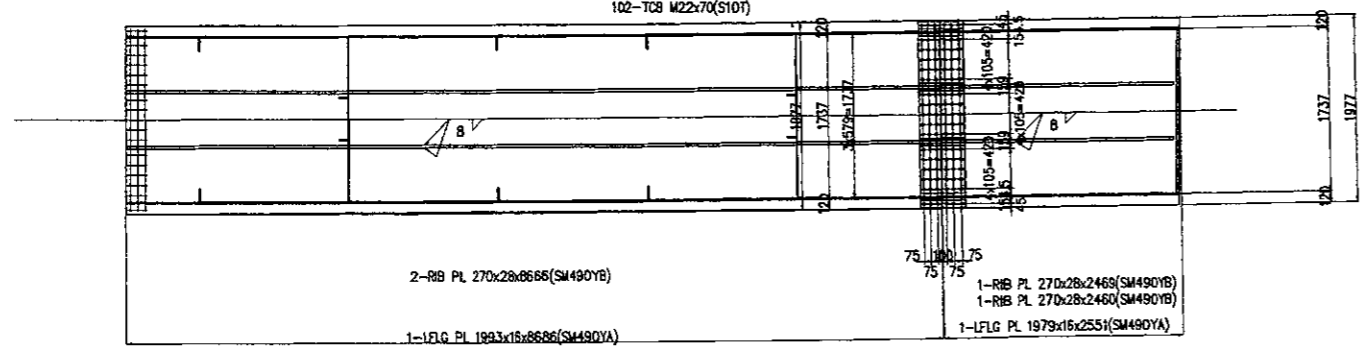
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	S. MATSUI	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



- 1-SPL PL 2390x10x350(SM490YA)
- 2-SPL PL 80x10x350(SM490YA)
- 2-SPL PL 720x10x350(SM490YA)
- 1-SPL PL 500x10x350(SM490YA)
- 104-TCB M22x75(S10T)
- 2-FILL PL 80x3.2x173
- 2-FILL PL 720x3.2x173
- 1-FILL PL 505x3.2x173

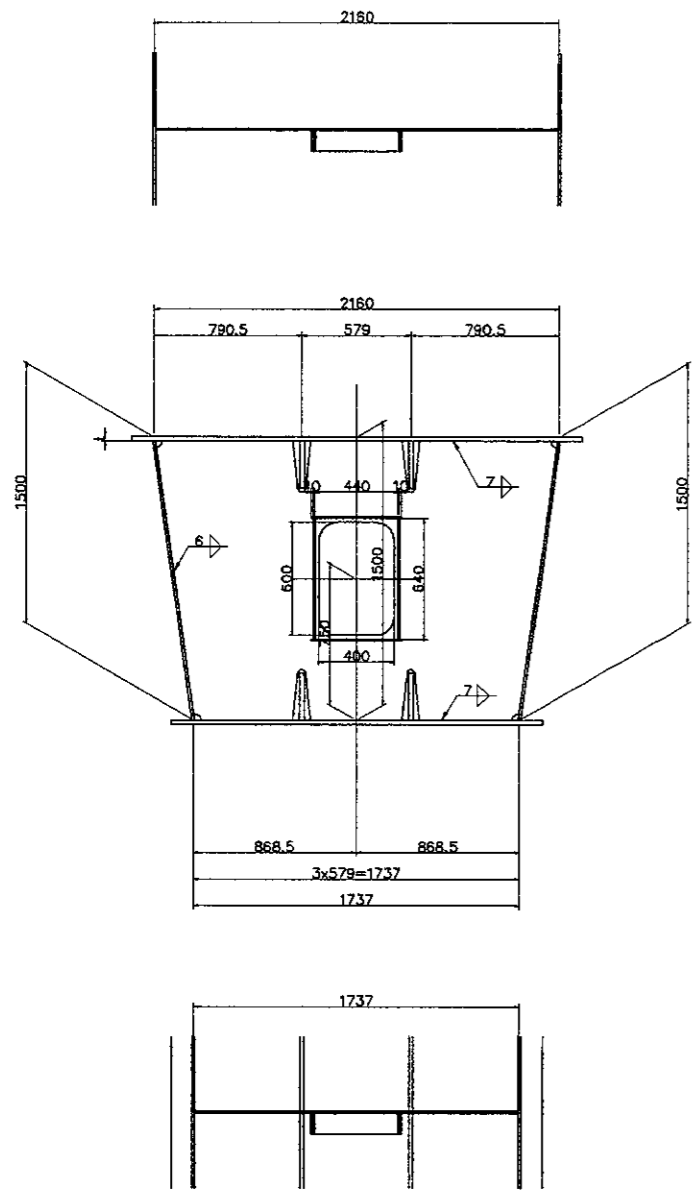


- 2-SPL PL 80x9x480(SM490YA)
- 3-SPL PL 500x9x480(SM490YA)
- 1-SPL PL 1967x9x480(SM490YA)
- 102-TCB M22x70(S10T)



NOTES :

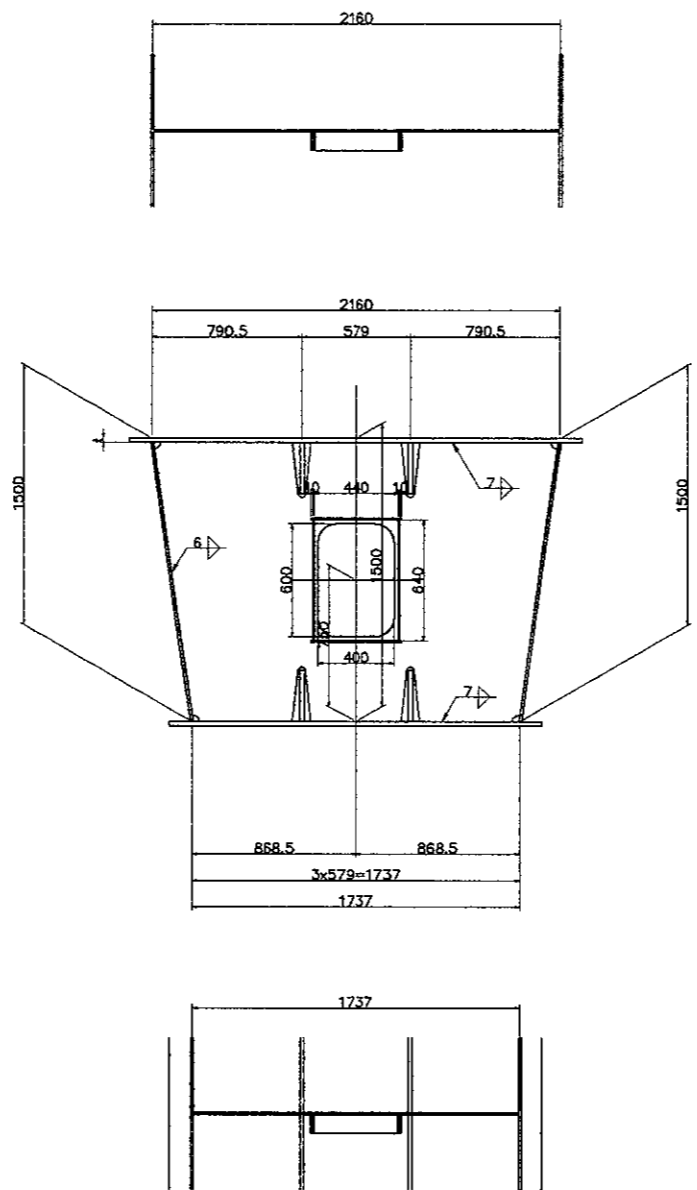
1. ALL STEEL GRADE SHALL BE SM400A UNLESS OTHERWISE NOTED
2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
3. MARK "*" SHALL BE HIGH TENSION TORSION TYPE BOLT



1-DIA B x9x L (SM400A)
 2-PL 100x9x640(SM400A)
 2-PL 110x9x478(SM400A)

	DI-1	DI-3	DI-4
T	20	19	16
B	1480	1481	1484
L	2144	2145	2145
NOS	4	8	8

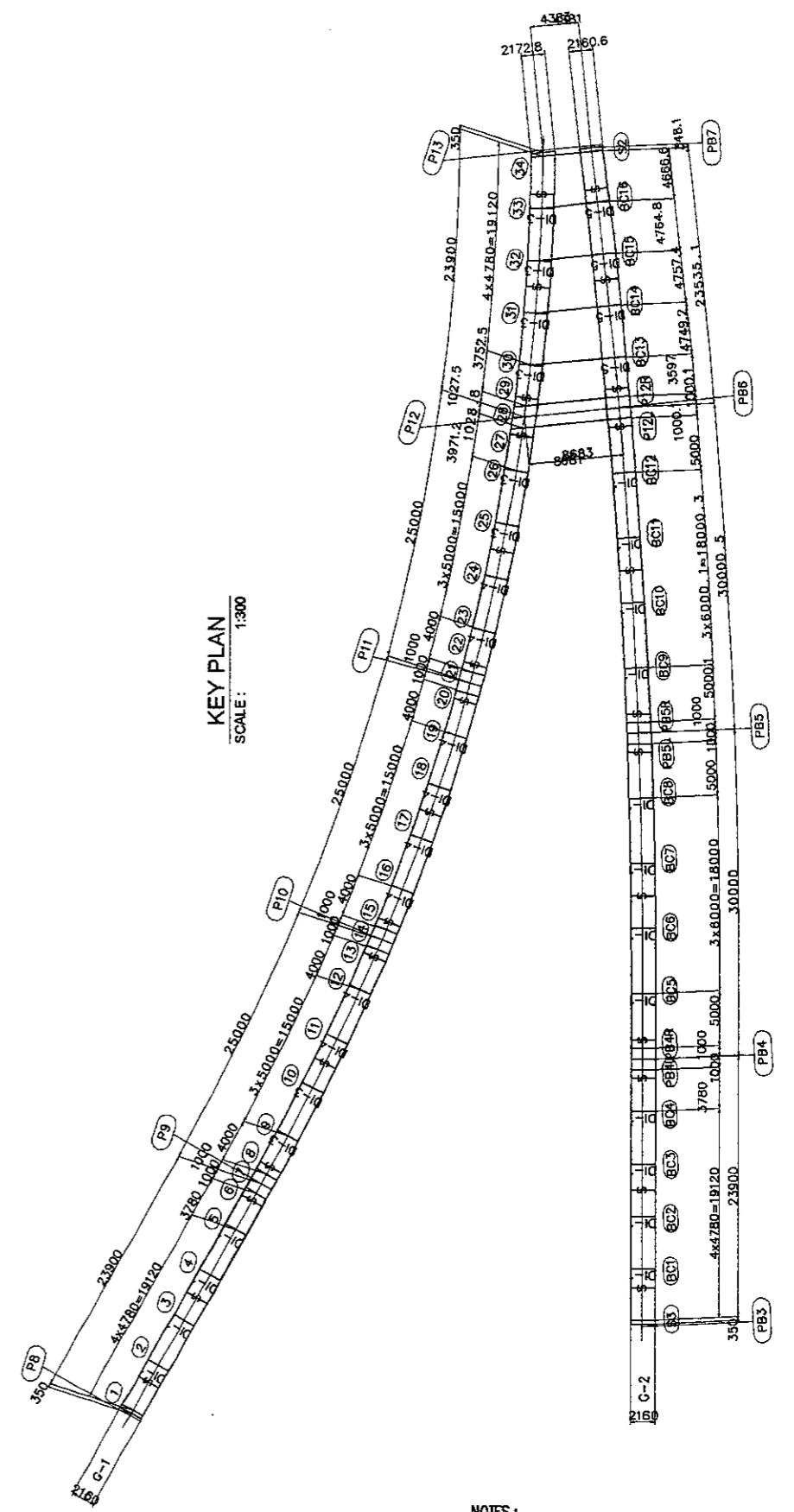
SECTION G1
 SCALE : 1:40



1-DIA B x9x L (SM400A)
 2-PL 100x9x640(SM400A)
 2-PL 110x9x478(SM400A)

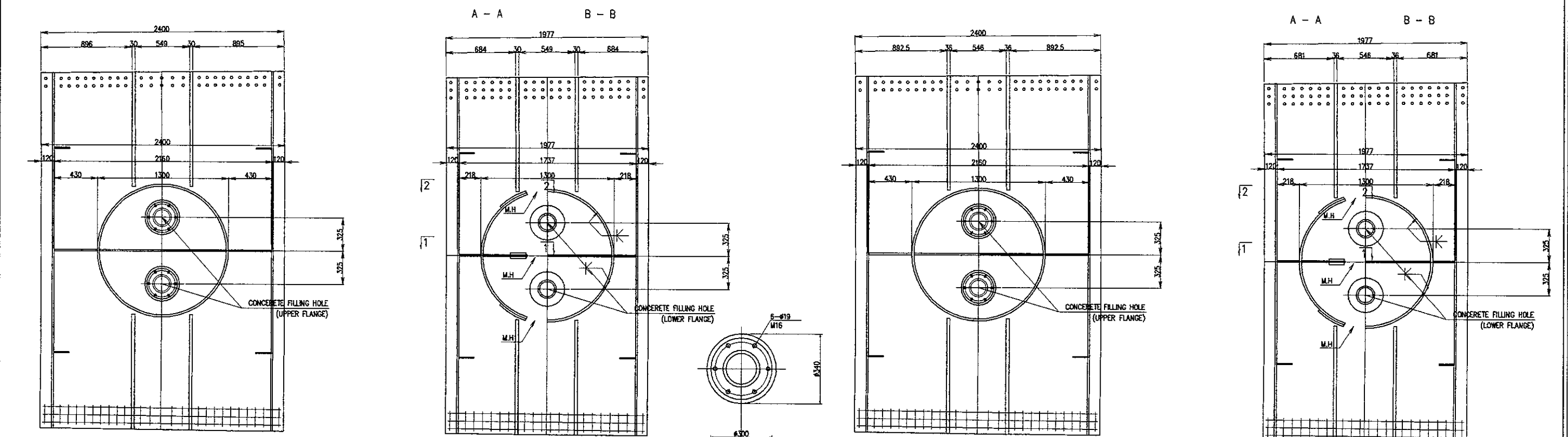
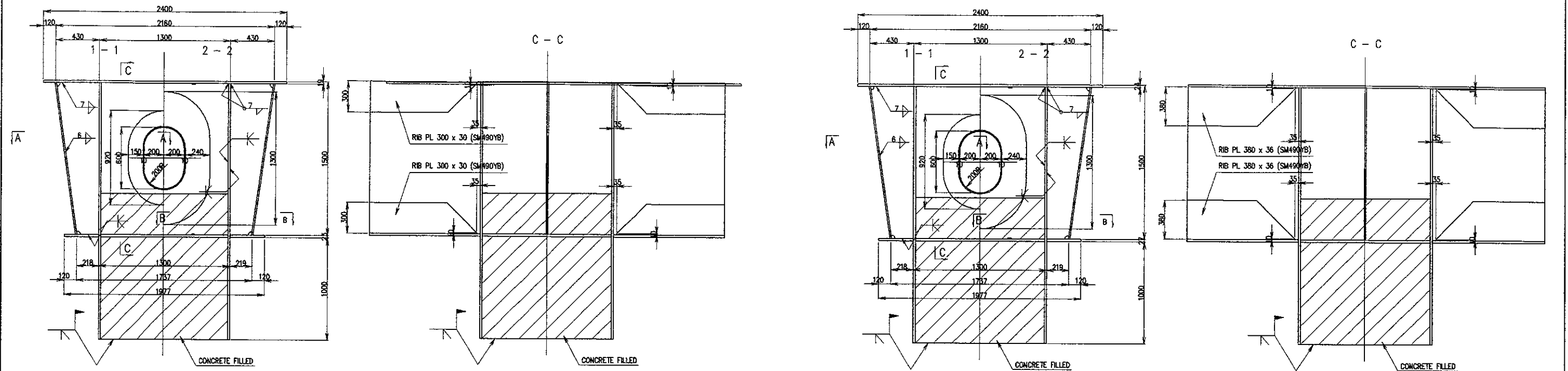
	DI-1	DI-5
T	18	19
B	1482	1481
L	2145	2145
NOS	12	4

SECTION G2
 SCALE : 1:40

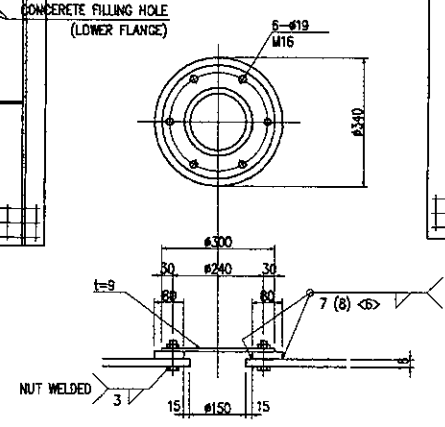


KEY PLAN
 SCALE : 1:300

NOTES :
 1. ALL STEEL GRADE SHALL BE SM400A UNLESS OTHERWISE NOTED
 2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED



- 1-PIPE 1300x20x2504(SM490YB)
- 1-PL 1260x23x1260(SM490YB)
- 1-DIA 1481x20x 430(SM490YB)
- 2-PL 920x10x 720(SM400A)
- 2-PL 1300x20x1019(SM400A)
- 2-PL 300x9x300(SS400)
- 2-PL 340x19x18x340(SM490YB)
- 12-BN M16x60(SS400)
- 2-PL 340x23x340(SM490YB)



CONCRETE FILLING HOLE
 SCALE : 1 : 20

() INDICATED P85 LOWER FLANGE
 < > INDICATED P10 UPPER FLANGE

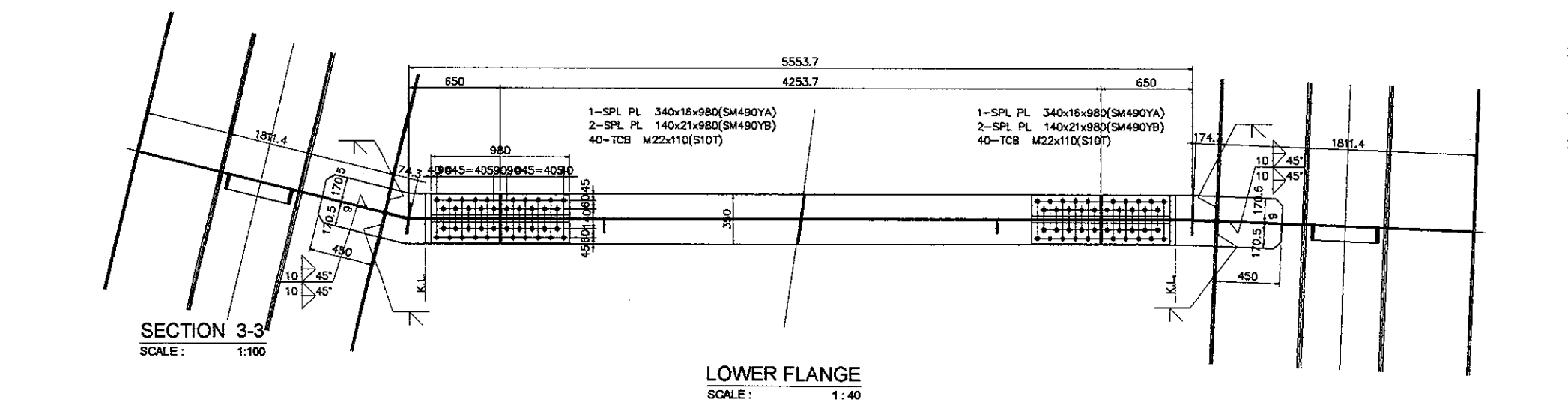
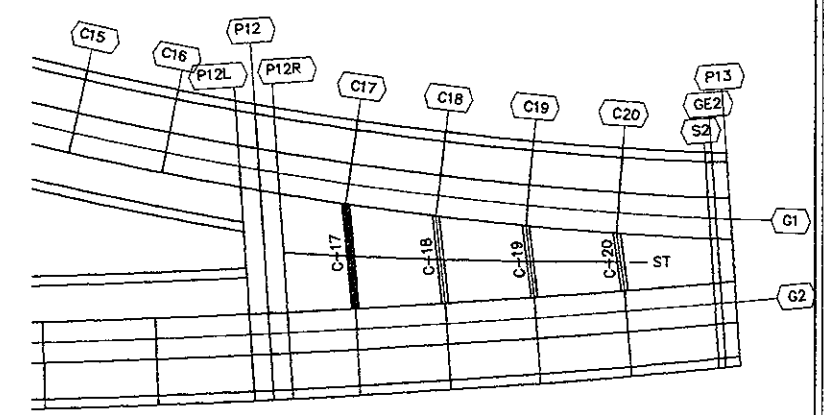
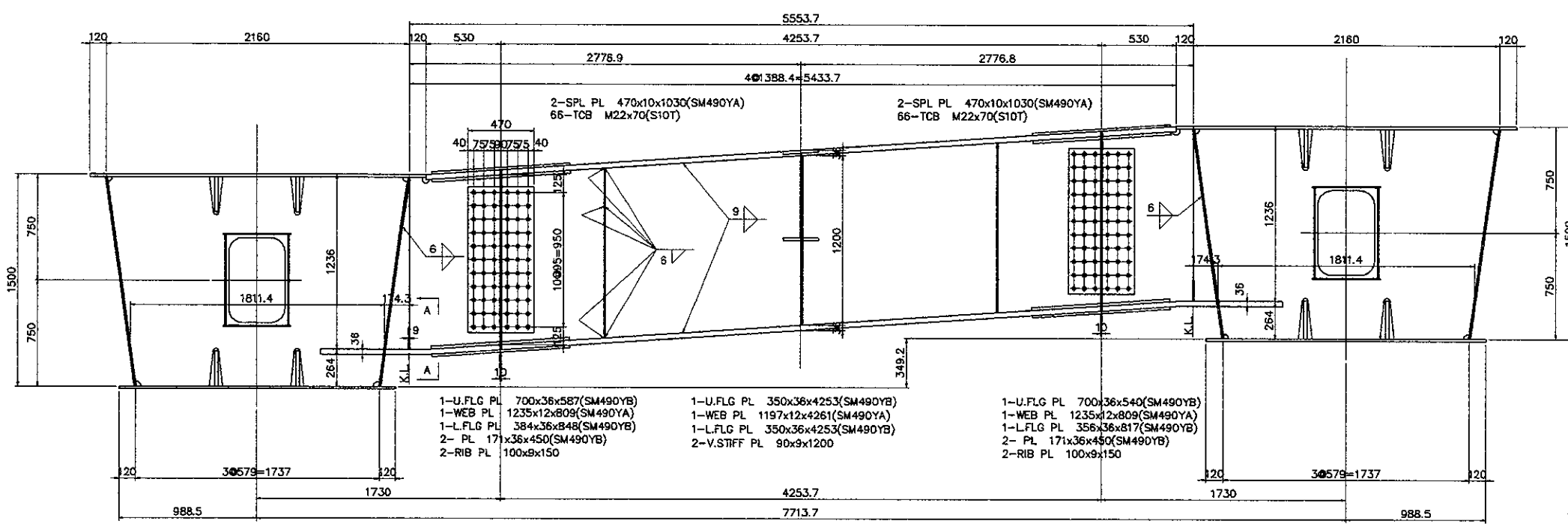
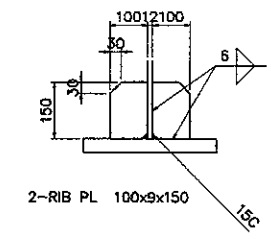
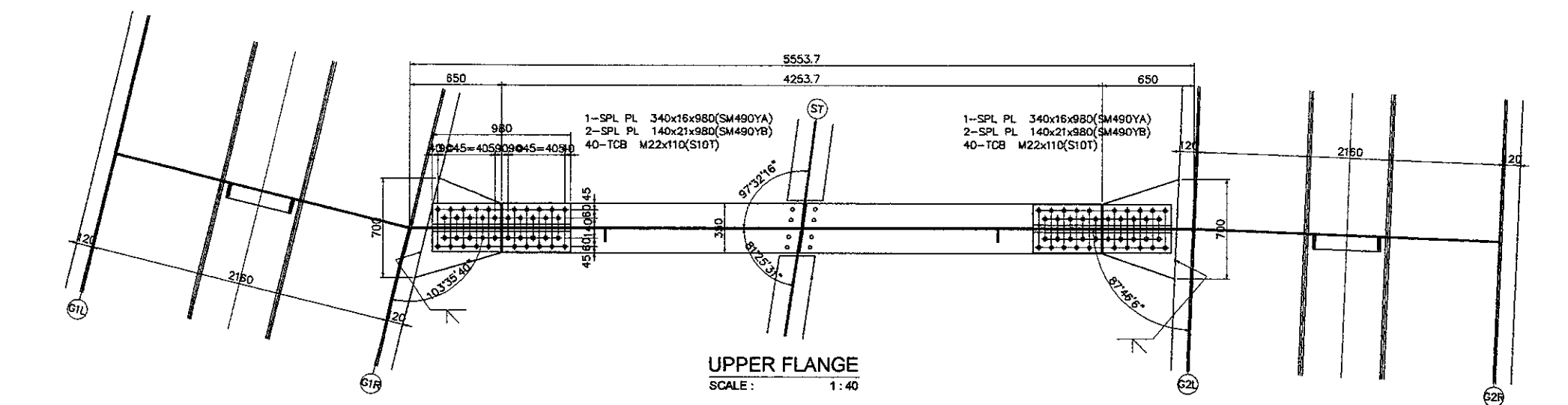
- 1-PIPE 1300x20x2503(SM490YB)
- 1-PL 1260x27x1260(SM490YB)
- 1-DIA 1476x20x1260(SM490YB)
- 2-DIA 1476x20x 430(SM490YB)
- 2-PL 920x10x 720(SM400A)
- 2-PL 1300x20x1019(SM400A)
- 2-PL 300x9x300(SS400)
- 2-PL 340x24x340(SM490YB)
- 12-BN M16x70(SS400)
- 2-PL 340x27x340(SM490YB)

G2 DIAPHRAGM (PB5)
 SCALE : 1 : 40

G1 DIAPHRAGM (P10,P11)
 SCALE : 1 : 40

NOTES :
 1. ALL STEEL GRADE SHALL BE SM400A UNLESS OTHERWISE NOTED
 2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
 3. MARK "H" SHALL BE HIGH TENSION TORSION TYPE BOLT

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

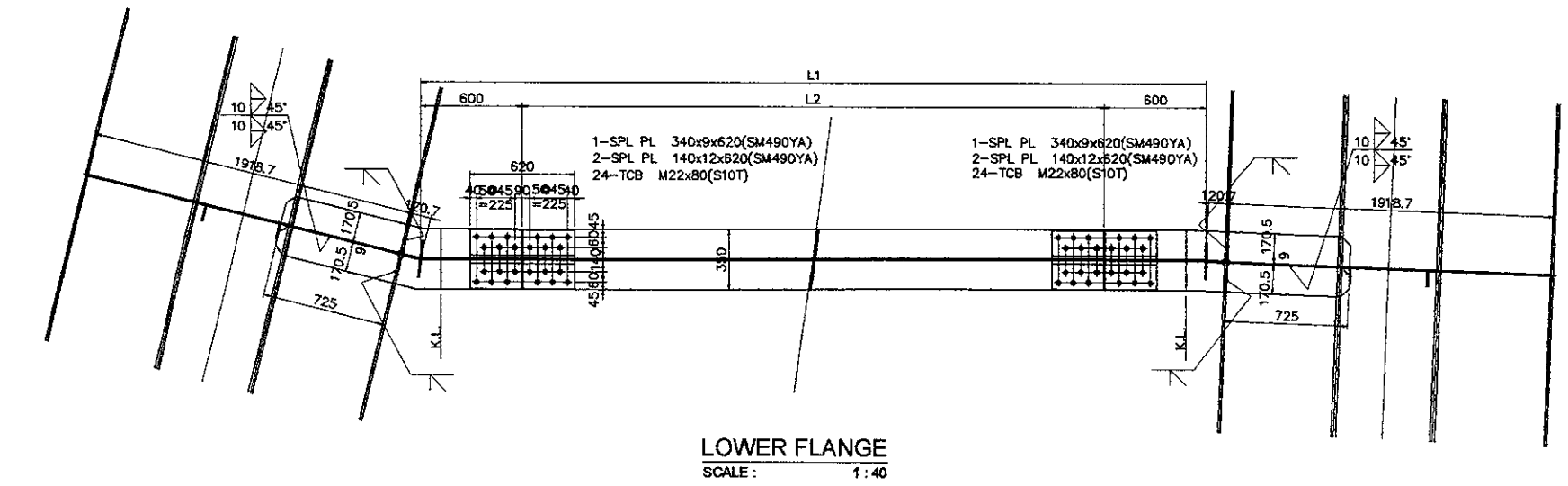
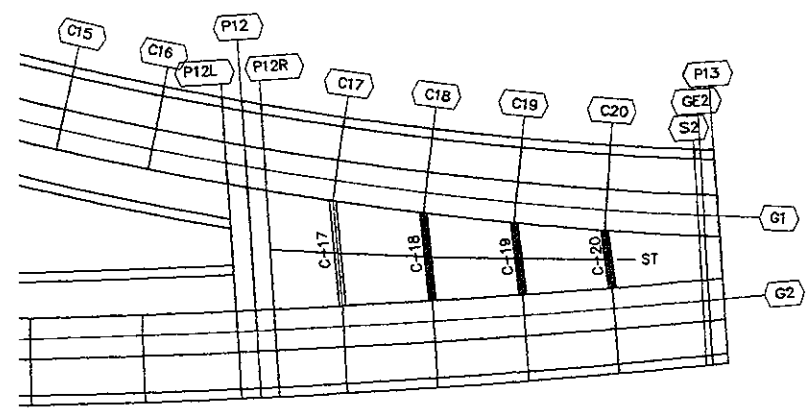
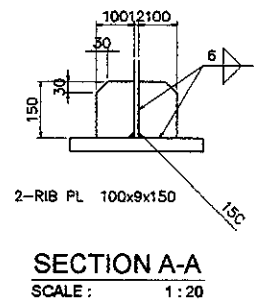
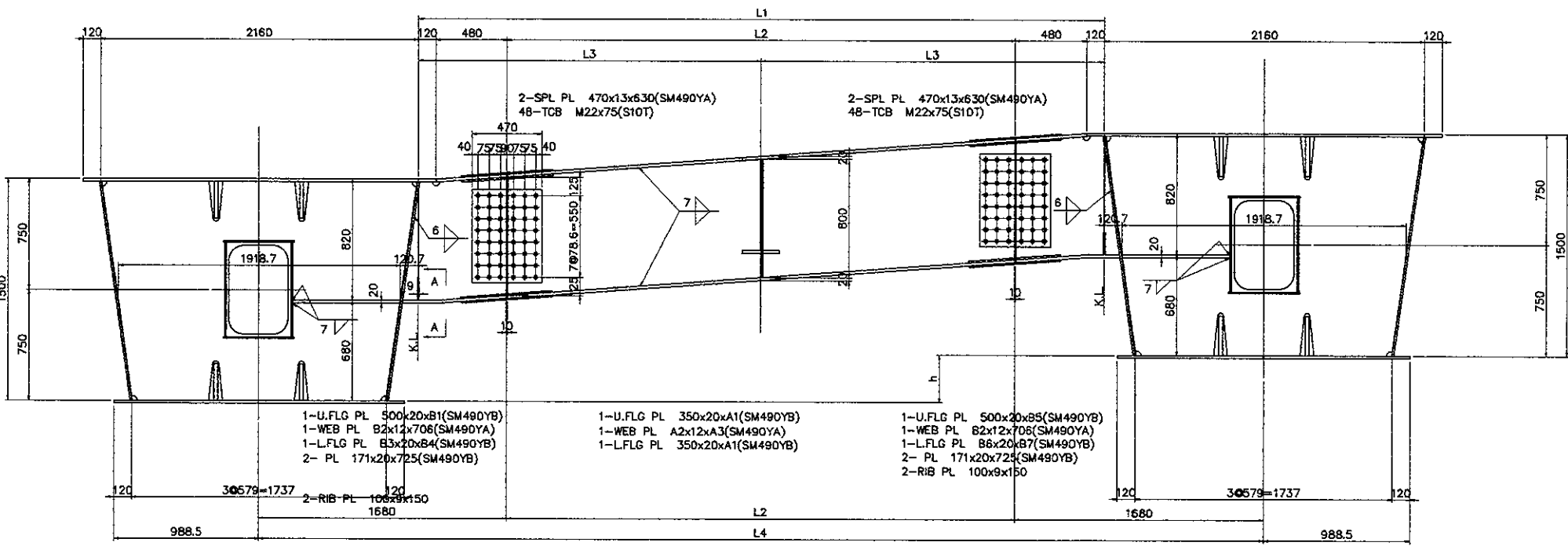
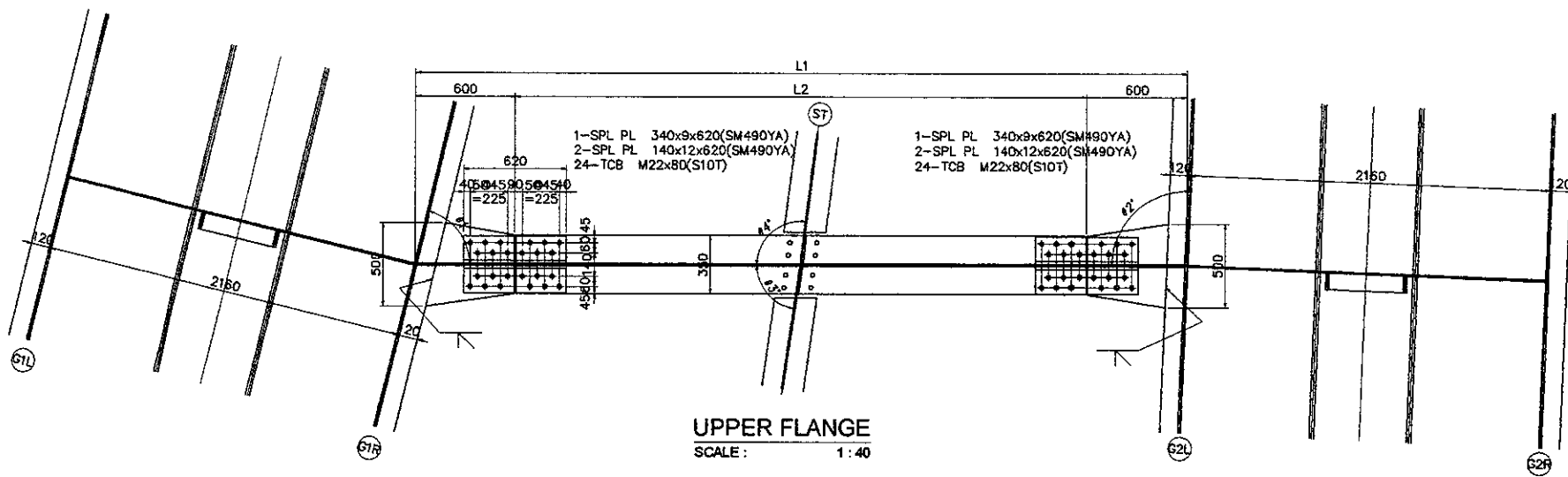


- NOTES :
1. ALL STEEL GRADE SHALL BE SM400A UNLESS OTHERWISE NOTED
 2. ALL SCARE LOOPS SHALL BE 35 RADIUS UNLESS OTHERWISE NOTED
 3. MARK "*" SHALL BE HIGH TENSION TORSION TYPE BOLT

	L1	L2	L3	L4	h
C18	4637.5	3437.5	2318.8	6797.5	319.3
C19	3802.5	2602.5	1901.3	5962.5	289.4
C20	3049.1	1849.1	1524.6	5209.1	259.8

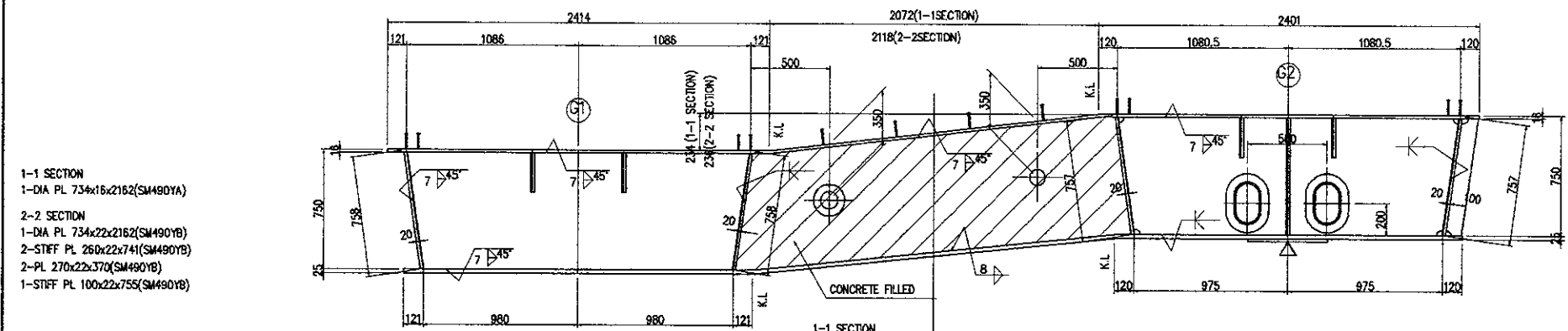
	#1	#2	#3	#4	A1	A2	A3
C18	77'02"13"	92'23"29"	81'47"46"	97'14"55"	3437	798	3495
C19	78'00"32"	92'41"13"	82'02"16"	97'00"28"	2601	797	2666
C20	78'31"07"	92'59"25"	82'73"02"	-	1847	797	1921

	B1	B2	B3	B4	B5	B6	B7
C18	534	834	371	745	487	355	712
C19	530	839	370	742	488	355	714
C20	528	844	369	741	490	356	715



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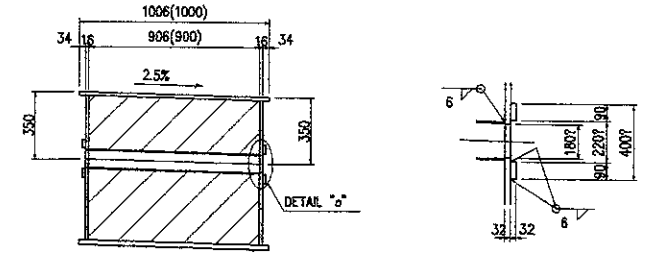
DESIGNED BY	CHECKED BY	SUBMITTED BY
Name: S. MATSUI	Name: T. OKUMURA	Name: M. KIUCHI
Sign:	Sign:	Sign:
Date:	Date:	Date:



1-1 SECTION
 1-DIA PL 73x16x2152(SM490YA)
2-2 SECTION
 1-DIA PL 73x22x2152(SM490YB)
 2-STIFF PL 250x22x74(SM490YB)
 2-PL 270x22x370(SM490YB)
 1-STIFF PL 100x22x755(SM490YB)

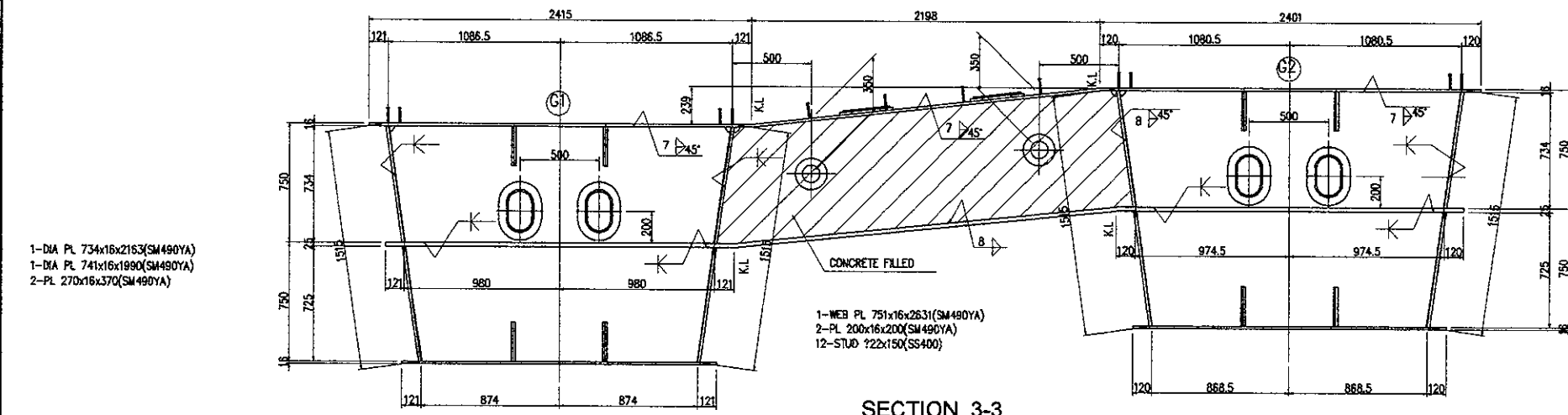
SECTION 1-1
 SCALE : 1 : 40

SECTION 2-2
 SCALE : 1 : 40



SECTION 4-4 (5-5)
 SCALE : 1 : 20

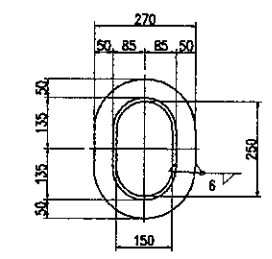
DETAIL "a"
 SCALE : 1 : 20



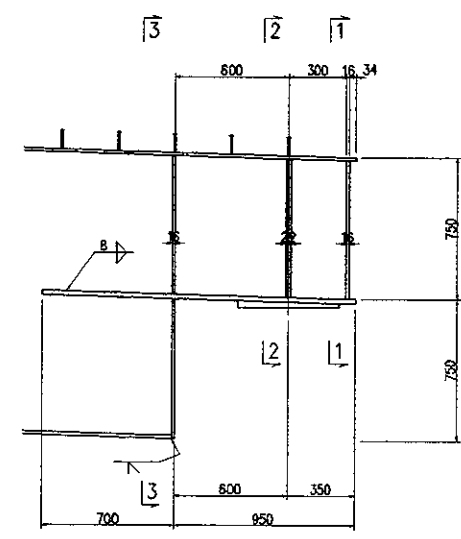
1-DIA PL 73x16x2153(SM490YA)
 1-DIA PL 741x16x1990(SM490YA)
 2-PL 270x16x370(SM490YA)

1-WEB PL 751x16x2631(SM490YA)
 2-PL 200x16x200(SM490YA)
 12-STUD ?22x150(SS400)

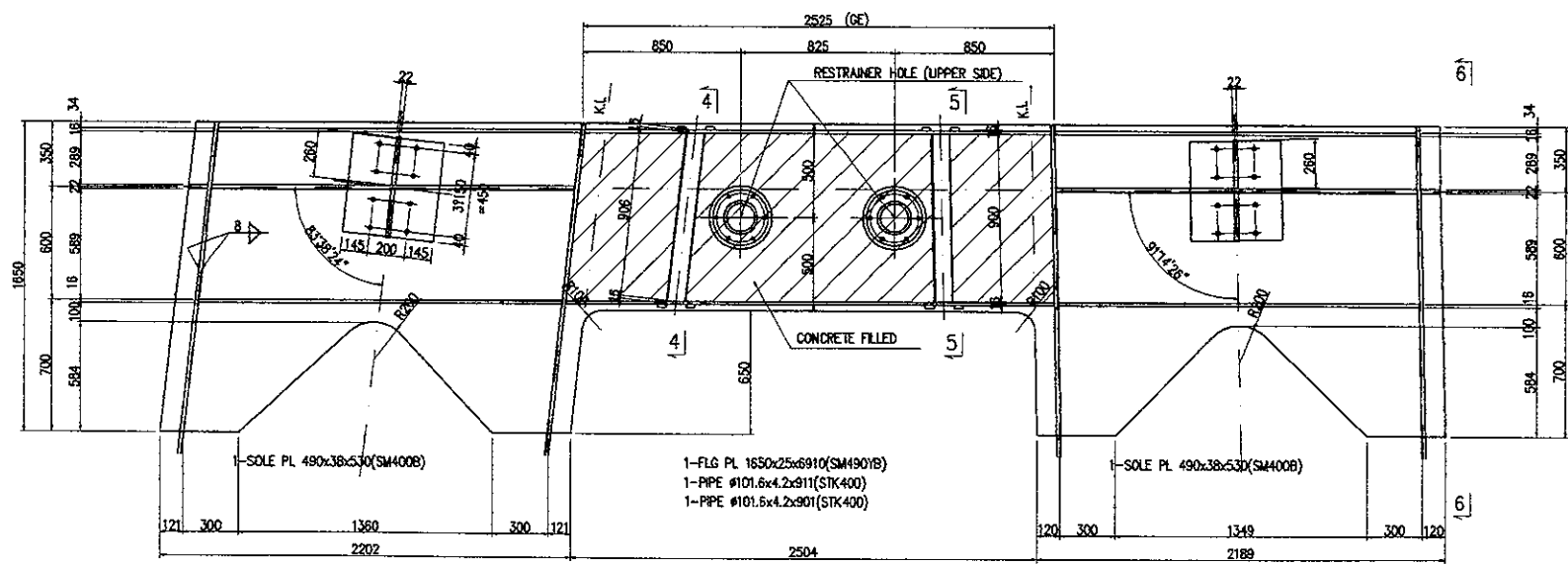
SECTION 3-3
 SCALE : 1 : 40



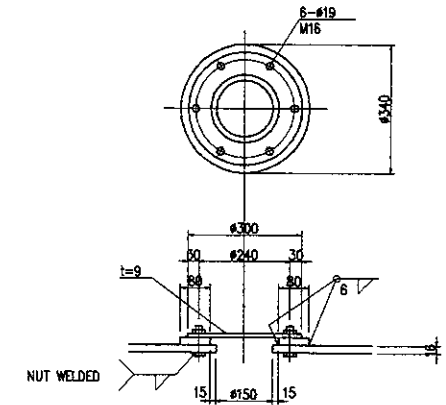
MAN HOLE
 SCALE : 1 : 20



SECTION 6-6
 SCALE : 1 : 20

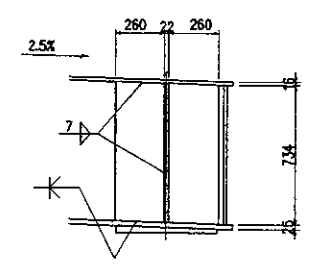


PLAN
 SCALE : 1 : 40



1-PL 300x9x300(SS400)
 1-PL 340x16x340(SM490YA)
 6-BN M16x65(SS400)

CONCRETE FILLING HOLE
 SCALE : 1 : 20



END CROSS BEAM
 SCALE : 1 : 20

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