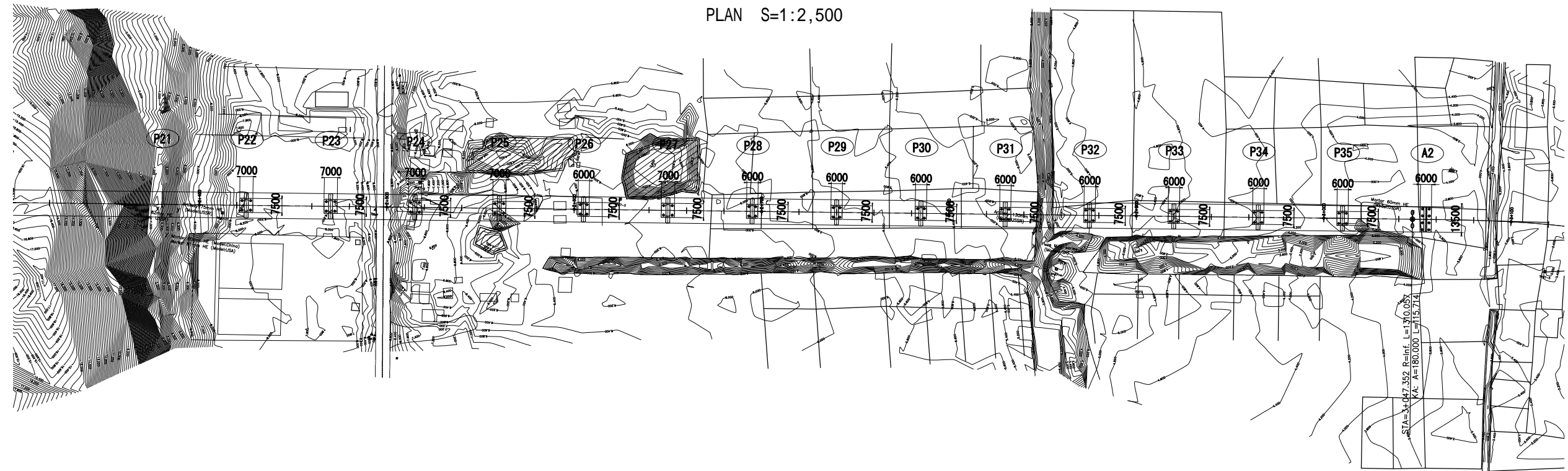
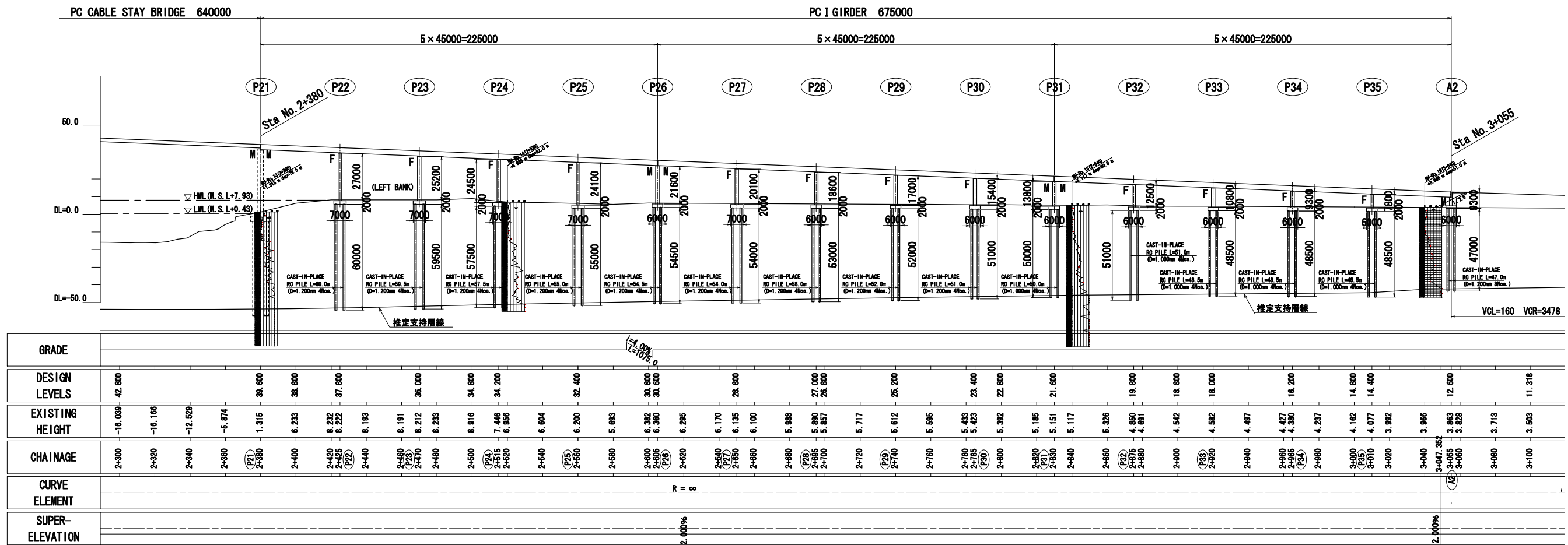


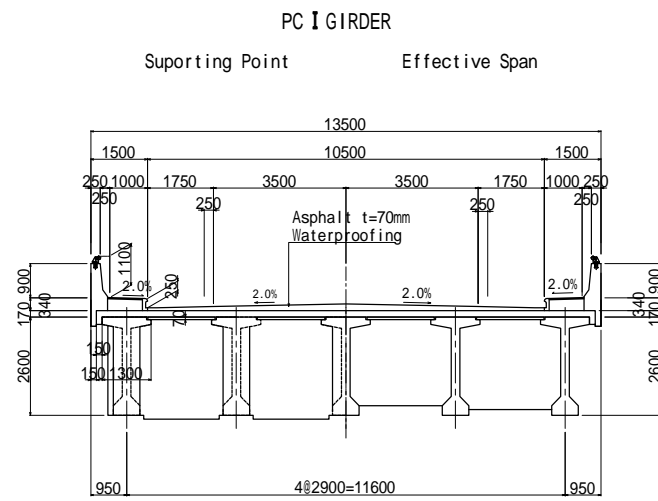
PLAN AND PROFILE OF APPROACH BRIDGE(P21 to A2) [Temporary July 2009]

PROFILE S=1:2,500

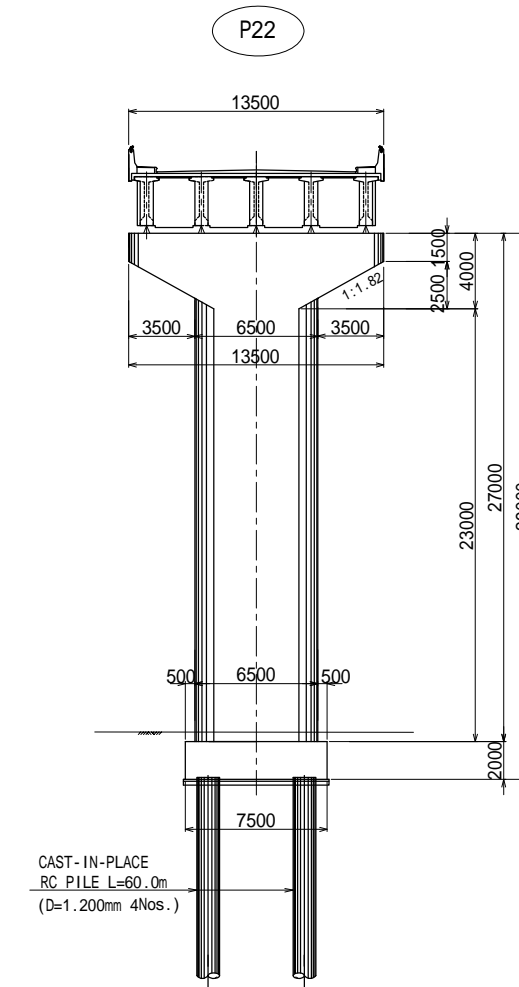
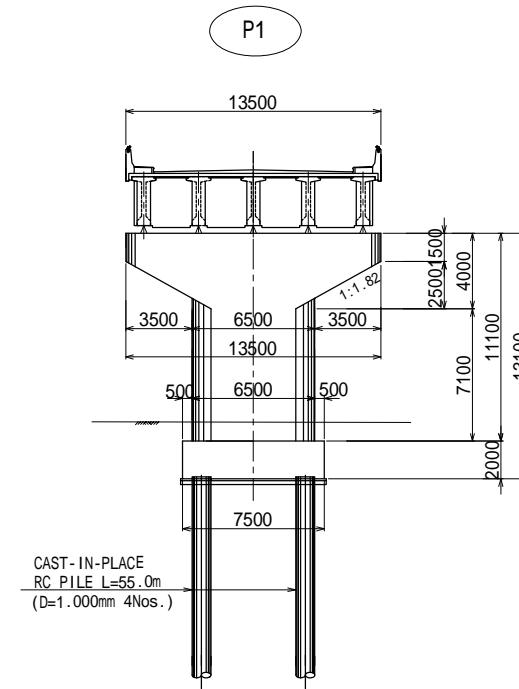


PLAN AND PROFILE OF APPROACH BRIDGE(SECTION) [Temporary July 2009]

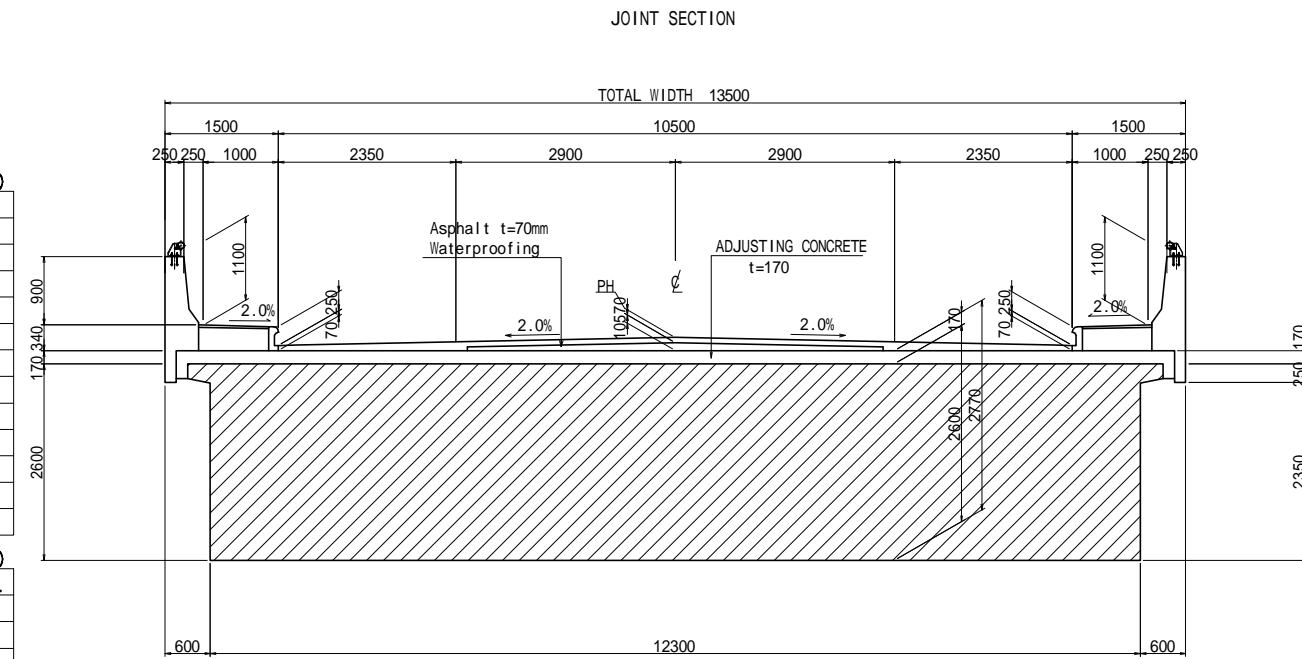
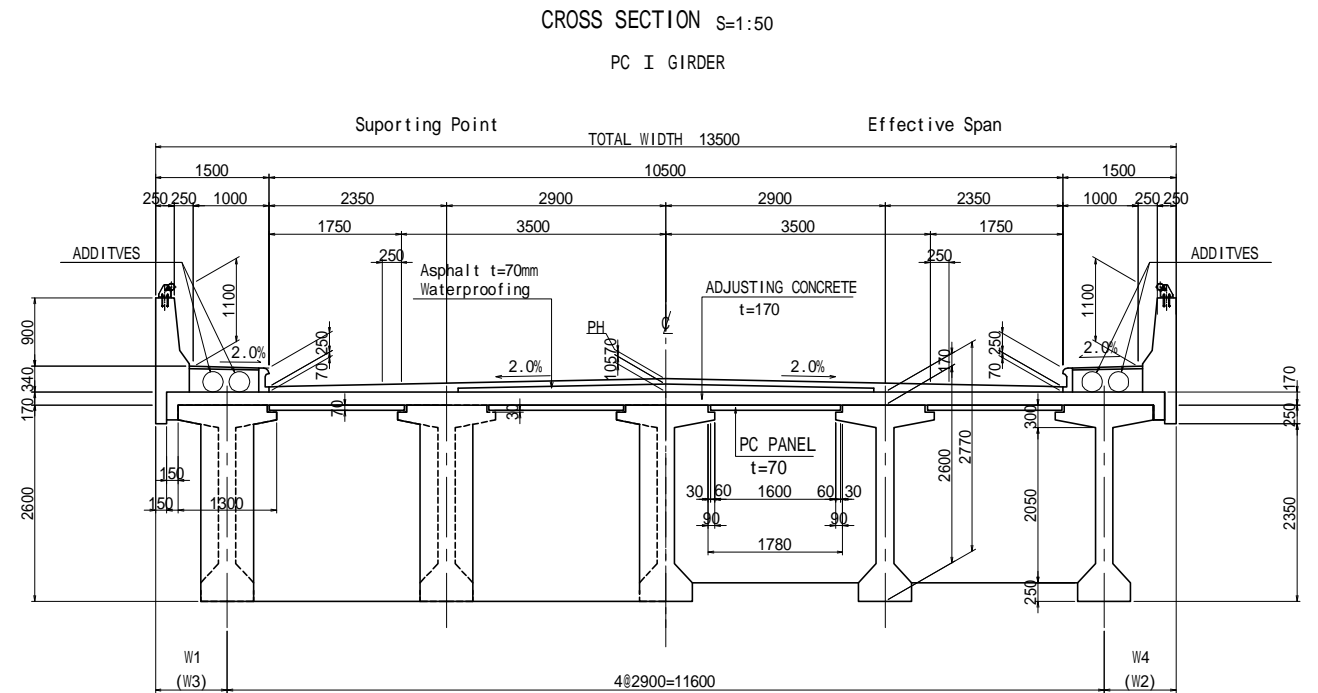
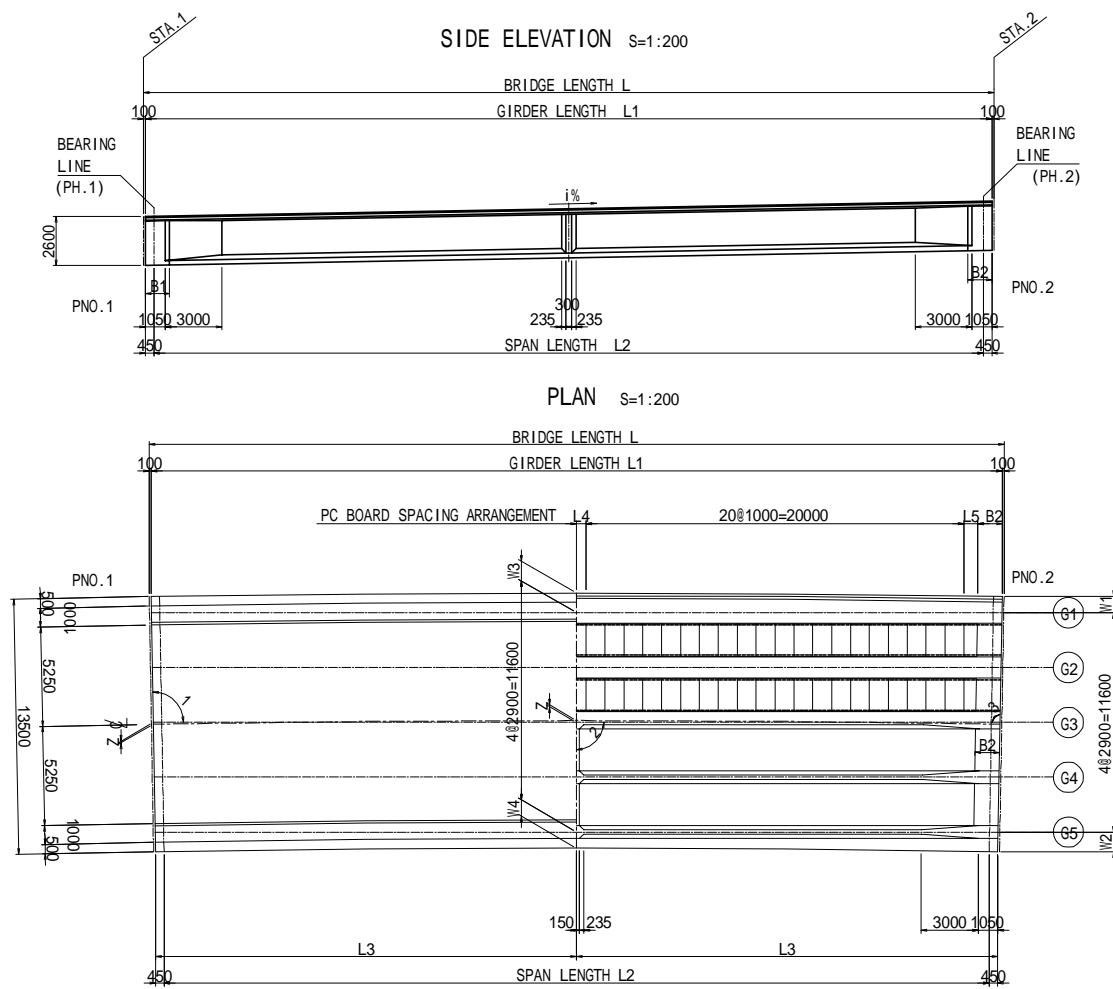
SECTION S=1:200



CROSS SECTION S=1:400



# GENERAL ARRANGEMENT OF SUPERSTRUCTURE(1) [Temporary July 2009]



### DESIGN CONDITION

TYPE	PRESTRESSED CONCRETE ROAD BRIDGE
FORMAT	PRECAST SEGMENT METHOD PC SIMPLE COMPONENT BRIDGE
BRIDGE LENGTH	L
GIRDER LENGTH	L1
SPAN LENGTH	L2
WIDTH CONFIGURATION	13.500m(1.500+10.500+1.500)
DIAGONAL ANGLE	1. 2.
LOAD	B LIVE LOAD
IMPACT COEFFICIENT	i=10/(25+L)

### MATERIAL STRENGTH AND ALLOWABLE STRESS

	(N/mm <sup>2</sup> )			
CONCRETE	GIRDER	CROSS BEAM	PC PANEL	DECK
DESIGN STRENGTH	40	30	50	30
ALLOWABLE COMPRESSION INTRODUCED IMMEDIATELY AFTER PRESTRESS	19	15	21	—
BENDING STRESS WHEN THE DESIGN LOAD	15	12	17	10
ALLOWABLE COMPRESSION INTRODUCED IMMEDIATELY AFTER PRESTRESS (GENERAL)	-1.5	-1.2	-1.8	—
ALLOWABLE COMPRESSION INTRODUCED IMMEDIATELY AFTER PRESTRESS (JOINT)	—	—	—	—
BENDING STRESS WHEN THE DESIGN LOAD (GENERAL)	1.5	0	0	—
BENDING STRESS WHEN THE DESIGN LOAD (JOINT)	—	—	—	—
AVERAGE SHEAR STRESS CAN BE BORNE BYE THE CONCRETE	0.55	0.45	—	—
MAXIMUM AVERAGE SHEAR STRESS OF CONCRETE	6.1	4.8	—	—
DIAGONAL TENSILE DEAD LOAD	1.3	1.1	—	—
STRESS TOLERANCE WHEN THE DESIGN LOAD	2.5	2.2	—	—
COMPRESSIVE STRENGTH AT PRESTRESS INTRODUCED	34.0	25.5	35.0	—

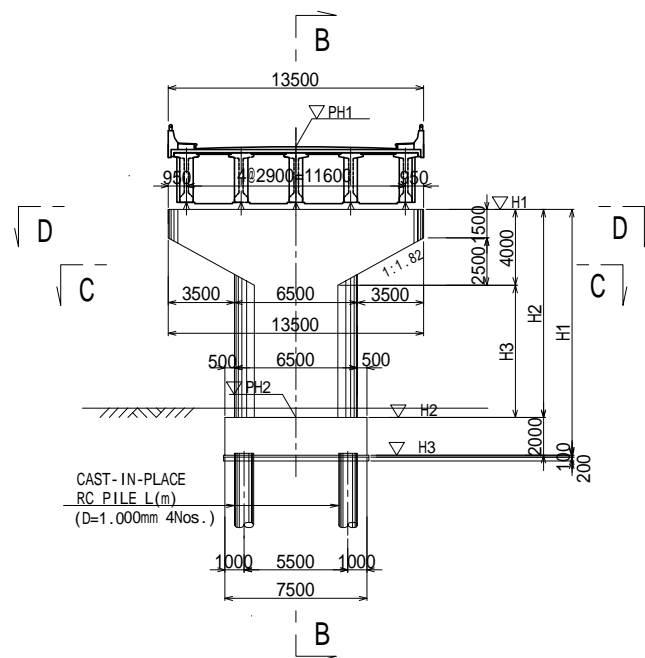
	(N/mm <sup>2</sup> )		
PC STEEL	GIRDER	CROSS BEAM	PC PANEL
PC TYPE OF STEEL	SPC19B	SPC19B	SPC19B
TENSILE STRENGTH	1850	1800	1950
YIELD POINT STRENGTH	1600	1600	1700
ALLOWABLE TENSILE TENSION DURING INTRODUCED IMMEDIATELY AFTER PRESTRESS	1440	1440	1560
STRESS WHEN THE DESIGN LOAD	1295	1280	1385
ALLOWABLE TENSILE TENSION DURING INTRODUCED IMMEDIATELY AFTER PRESTRESS	1110	1080	1170

	(N/mm <sup>2</sup> )				
REINFORCEMENT (SD295)	GIRDER	CROSS BEAM	PC PANEL	DECK	CONNECTION
YIELD POINT STRESS	295	295	295	295	295
DIAGONAL TENSILE STRESS TOLERANCE	180	180	180	140	160
DEAD LOAD	100	100	100	100	100

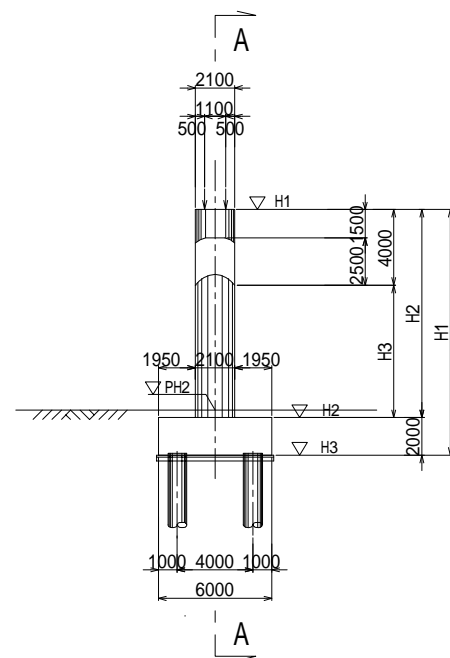
SUBSTRUCTURE(3) S=1 : 400

PIER(F) D=1000

A-A CROSS SECTION



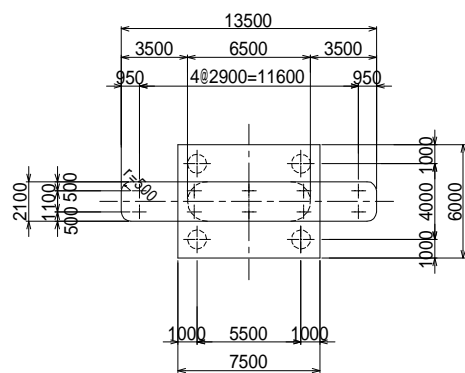
B-B CROSS SECTION



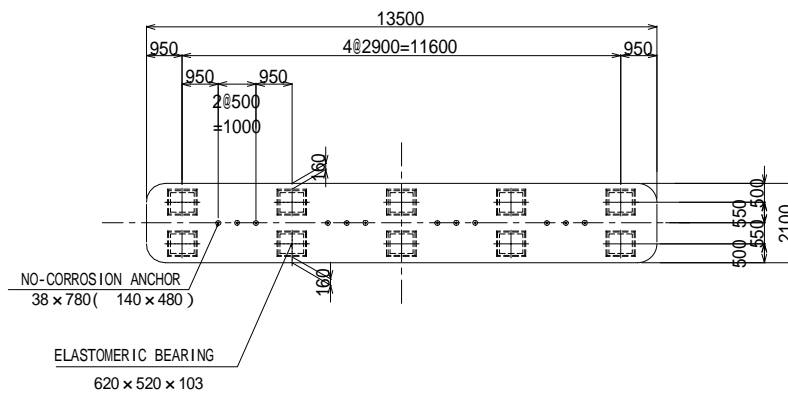
DIMENSION

	P1	P2	P3	P4	P8	P9	P32	P33	P34	P35
▽PH1	14.750	15.560	16.370	17.180	20.420	21.331	19.800	18.000	16.200	14.400
▽PH2	2.066	4.888	5.004	2.816	6.793	5.942	4.850	4.582	4.380	4.077
▽H1	11.605	12.415	13.225	14.035	17.275	18.186	16.655	14.855	13.055	11.255
▽H2	0.505	0.515	0.525	0.535	6.175	5.386	4.155	4.055	3.755	3.455
▽H3	-1.495	-1.485	-1.475	-1.465	4.175	3.386	2.155	2.055	1.755	1.455
H1	13.100	13.900	14.700	15.500	13.100	14.800	14.500	12.800	11.300	9.800
H2	11.100	11.900	12.700	13.500	11.100	12.800	12.500	10.800	9.300	7.800
H3	7.100	7.900	8.700	9.500	7.100	8.800	8.500	6.800	5.300	3.800
L	55.000	55.000	55.000	55.000	61.000	60.500	51.000	48.500	48.500	48.500

C-C CROSS SECTION



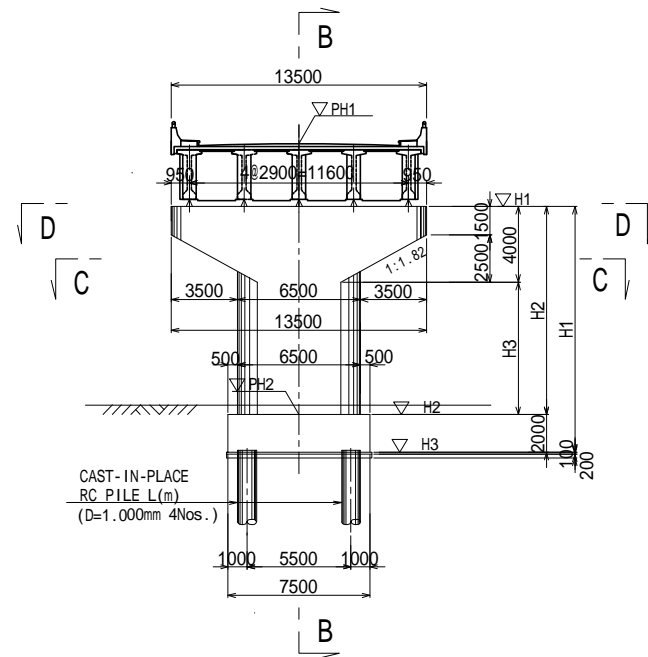
D-D CROSS SECTION S=1 : 200



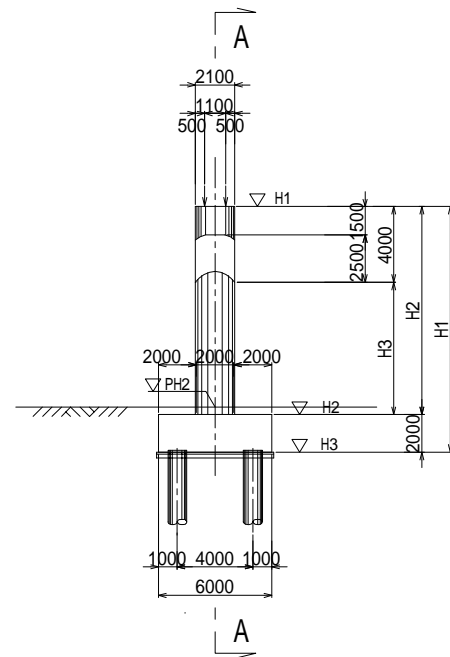
SUBSTRUCTURE(4) S=1 : 400

PIER(M) D=1000

A-A CROSS SECTION



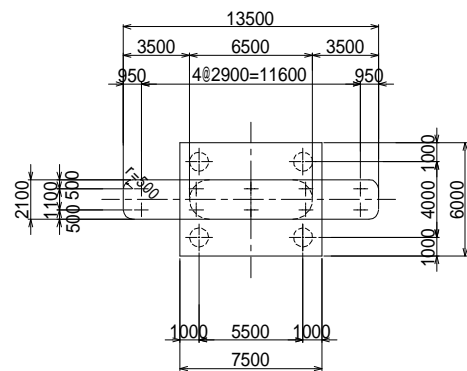
B-B CROSS SECTION



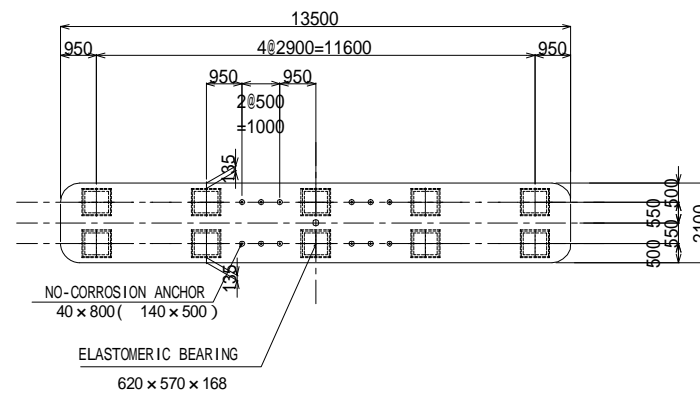
DIMENSION

	P5	P10	P31
▽ PH1	17.990	22.445	21.600
▽ PH2	3.231	6.672	5.151
▽ H1	14.795	19.250	18.405
▽ H2	0.495	5.750	4.605
▽ H3	-1.505	3.750	2.605
H1	16.300	15.500	15.800
H2	14.300	13.500	13.800
H3	10.300	9.500	9.800
L	55.000	61.000	50.000

C-C CROSS SECTION



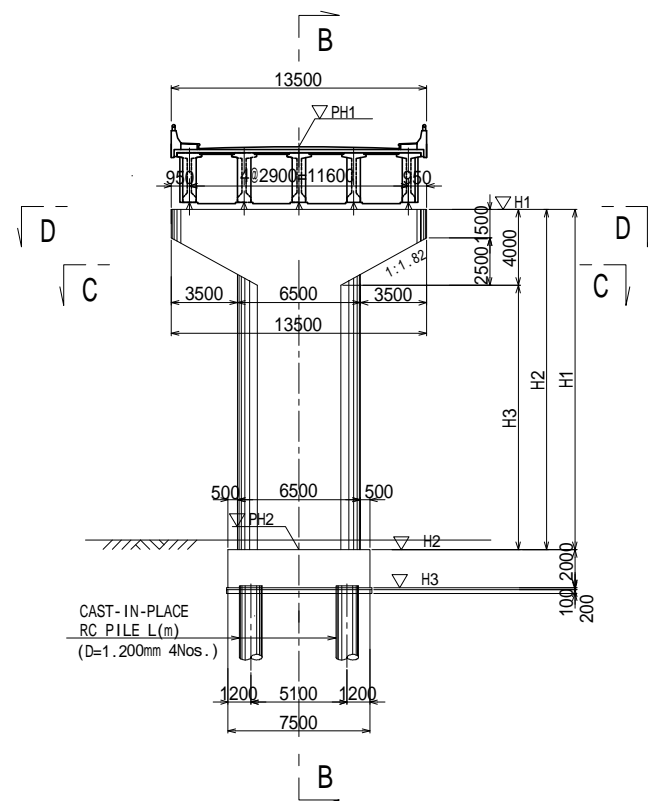
D-D CROSS SECTION S=1 : 200



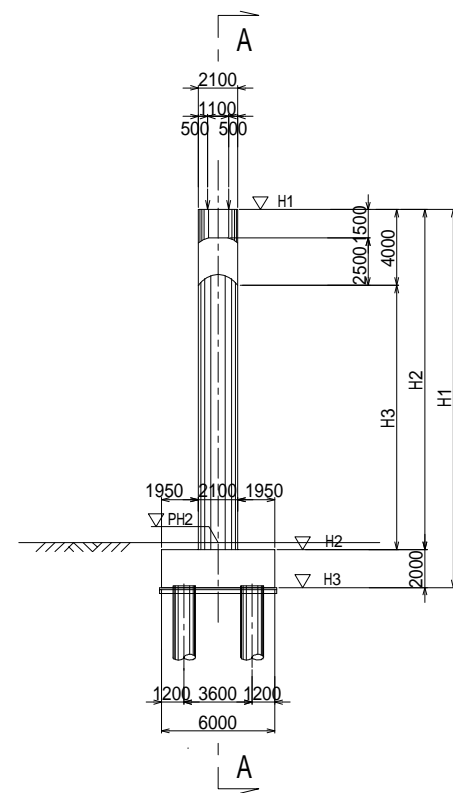
SUBSTRUCTURE(5) S=1 : 400

PIER(F) D=1200

A-A CROSS SECTION



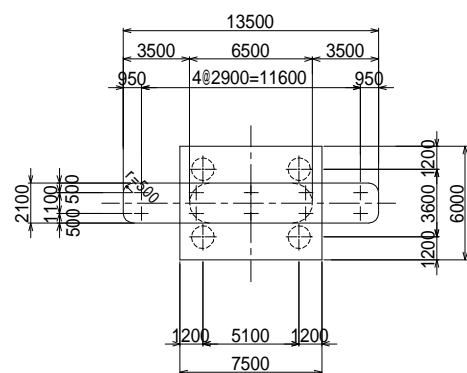
B-B CROSS SECTION



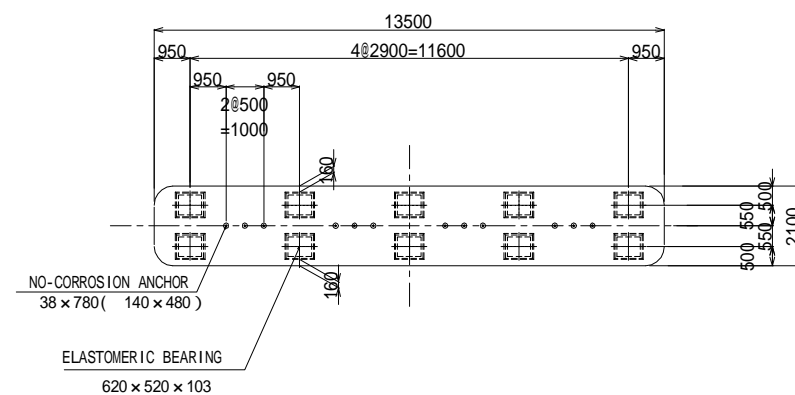
DIMENSION

	P6	P7	P11	P12	P13	P14	P28	P29	P30
▽PH1	18.800	19.610	23.761	25.280	27.000	28.800	27.000	25.200	23.400
▽PH2	3.905	5.977	6.626	6.480	6.241	6.170	5.890	5.612	5.423
▽H1	15.655	16.465	20.616	22.135	23.855	25.655	23.855	22.055	20.255
▽H2	0.455	0.465	6.016	5.835	5.655	5.555	5.255	5.055	4.855
▽H3	-1.545	-1.535	4.016	3.835	3.655	3.555	3.255	3.055	2.855
H1	17.200	18.000	16.600	18.300	20.200	22.100	20.600	19.000	17.400
H2	15.200	16.000	14.600	16.300	18.200	20.100	18.600	17.000	15.400
H3	11.200	12.000	10.600	12.300	14.200	16.100	14.600	13.000	11.400
L	55.500	55.500	61.500	61.500	61.500	61.500	53.000	52.000	51.000

C-C CROSS SECTION



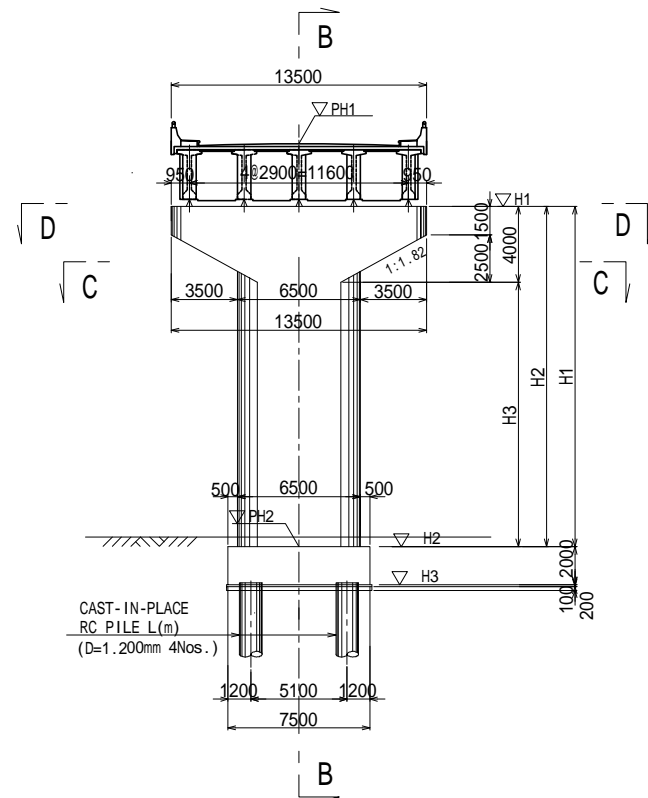
D-D CROSS SECTION S=1 : 200



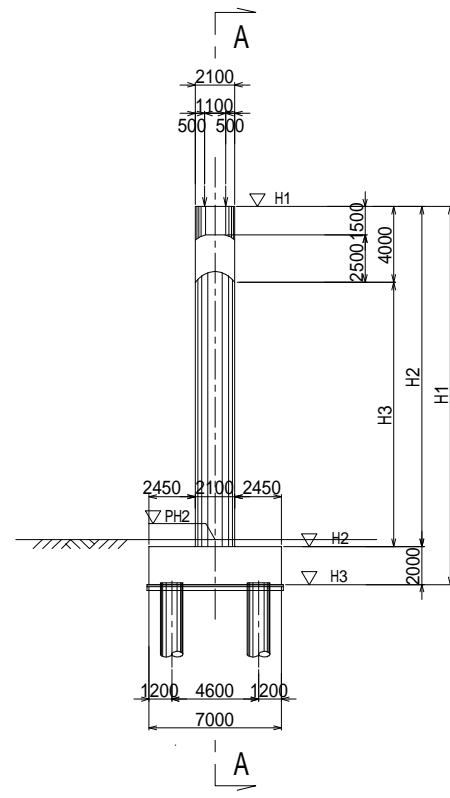
SUBSTRUCTURE(6) S=1 : 400

PIER(F) D=1200

A-A CROSS SECTION



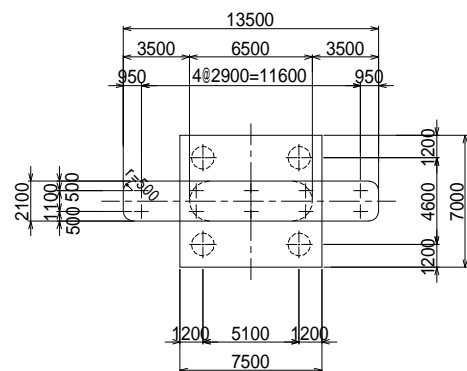
B-B CROSS SECTION



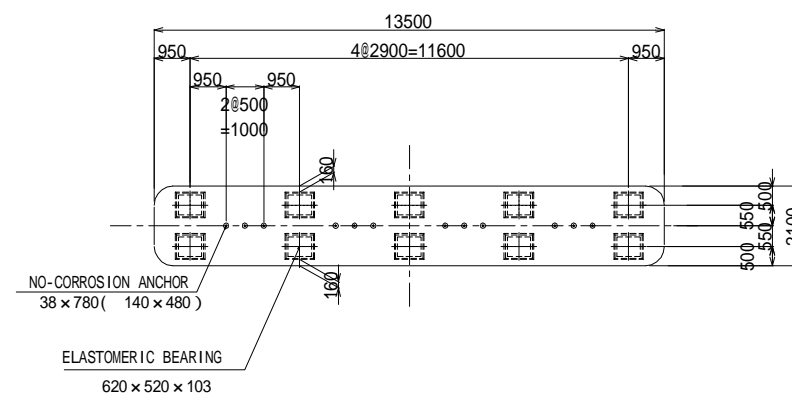
DIMENSION

	P22	P23	P24	P25	P27
▽ PH1	37.800	36.000	34.200	32.400	28.800
▽ PH2	8.222	8.212	7.446	5.700	6.135
▽ H1	34.655	32.855	31.055	29.255	25.655
▽ H2	7.655	7.655	6.555	5.155	5.555
▽ H3	5.655	5.655	4.555	3.155	3.555
H1	29.000	27.200	26.500	26.100	22.100
H2	27.000	25.200	24.500	24.100	20.100
H3	23.000	21.200	20.500	20.100	16.100
L	60.000	59.500	57.500	55.000	54.000

C-C CROSS SECTION



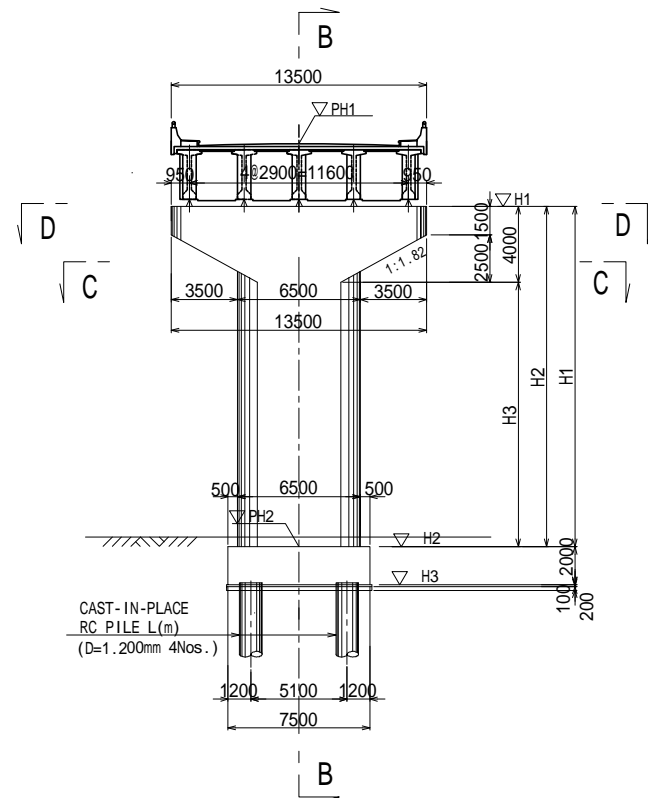
D-D CROSS SECTION S=1 : 200



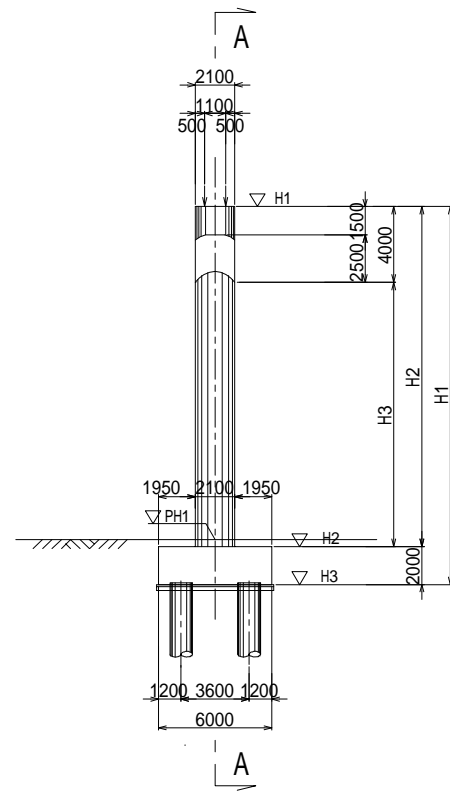
SUBSTRUCTURE(7) S=1 : 400

PIER(M) D=1200

A-A CROSS SECTION



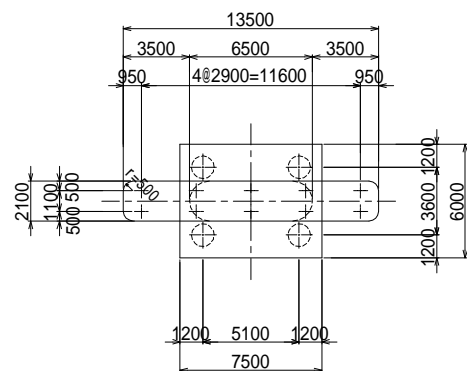
B-B CROSS SECTION



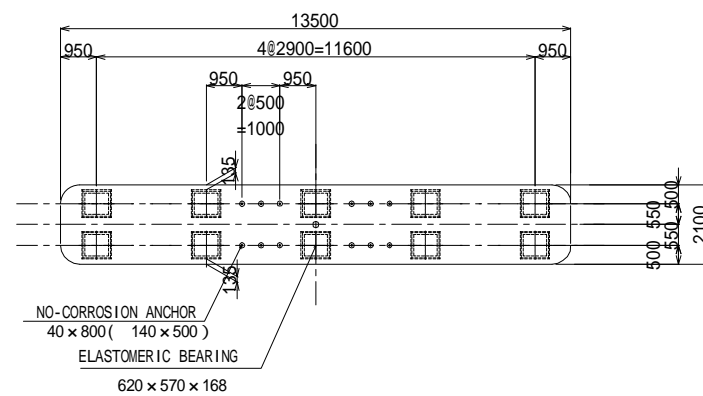
DIMENSION

	P26
▽ PH1	30.600
▽ PH2	6.360
▽ H1	27.405
▽ H2	5.805
▽ H3	3.805
H1	23.600
H2	21.600
H3	17.600
L	54.500

C-C CROSS SECTION



D-D CROSS SECTION S=1 : 200

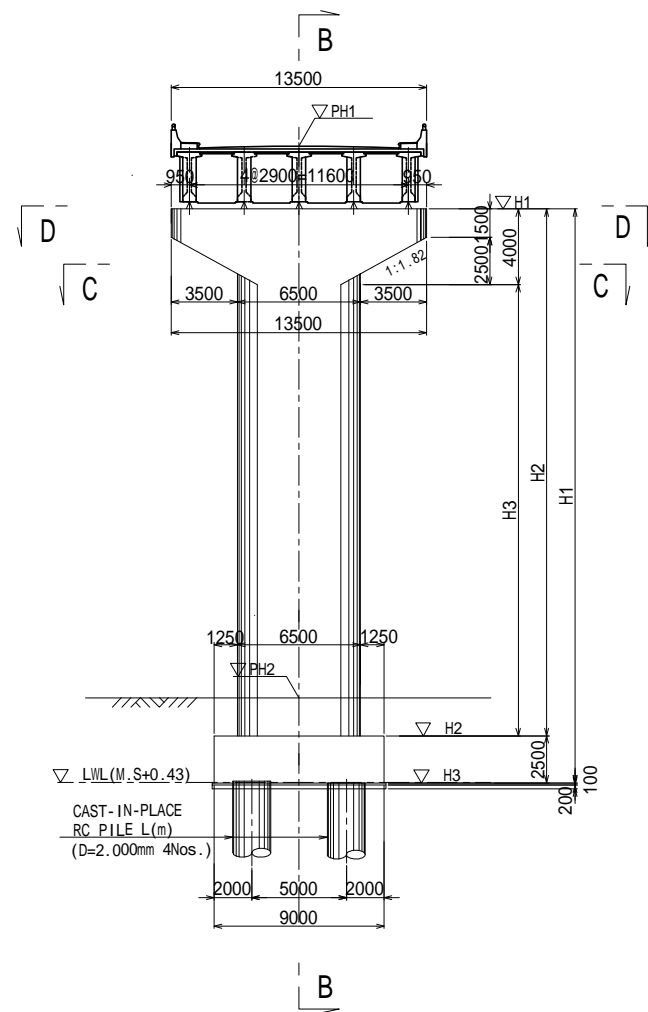




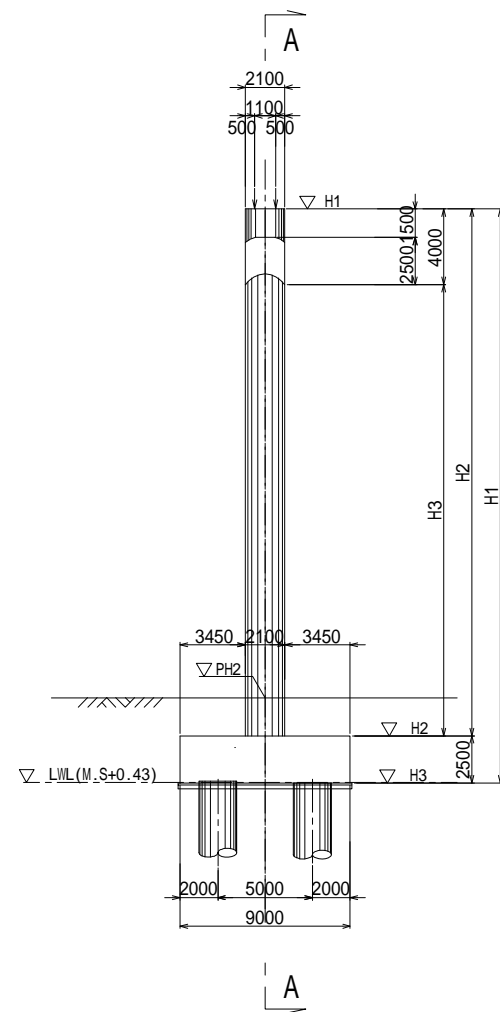
SUBSTRUCTURE(8) S=1 : 400

PIER(F,M) D=2000

A-A CROSS SECTION



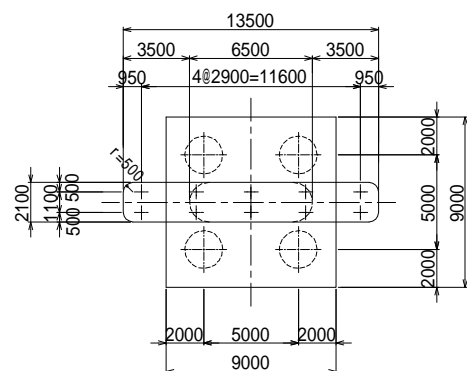
B-B CROSS SECTION



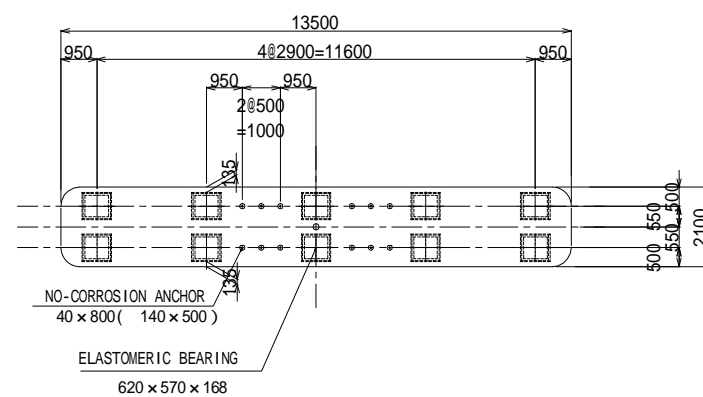
DIMENSION

	P15	P16	P17	P18	P19
▽ PH1	30.600	32.400	34.200	36.000	37.800
▽ PH2	5.989	5.119	4.827	4.925	5.520
▽ H1	27.405	29.255	31.055	32.855	34.655
▽ H2	2.905	2.855	2.855	2.855	2.855
▽ H3	0.405	0.355	0.355	0.355	0.355
H1	27.000	28.900	30.700	32.500	34.300
H2	24.500	26.400	28.200	30.000	31.800
H3	20.500	22.400	24.200	26.000	27.800
L	59.000	59.000	59.000	59.000	59.000

C-C CROSS SECTION



D-D CROSS SECTION (P15) S=1 : 200



D-D CROSS SECTION (P16, P17, P18, P19) S=1 : 200

