

別添 1：概略設計図

THE PREPARATORY STUDY
ON
THE PROJECT FOR RECONSTRUCTION OF BRIDGES
ON MANAGUA-EL RAMA ROAD
IN
THE REPUBLIC OF NICARAGUA

JULY 2010

JAPAN INTERNATIONAL COOPERATION AGENCY

CTI ENGINEERING INTERNATIONAL CO.,LTD.

LAS BANDERAS BRIDGE

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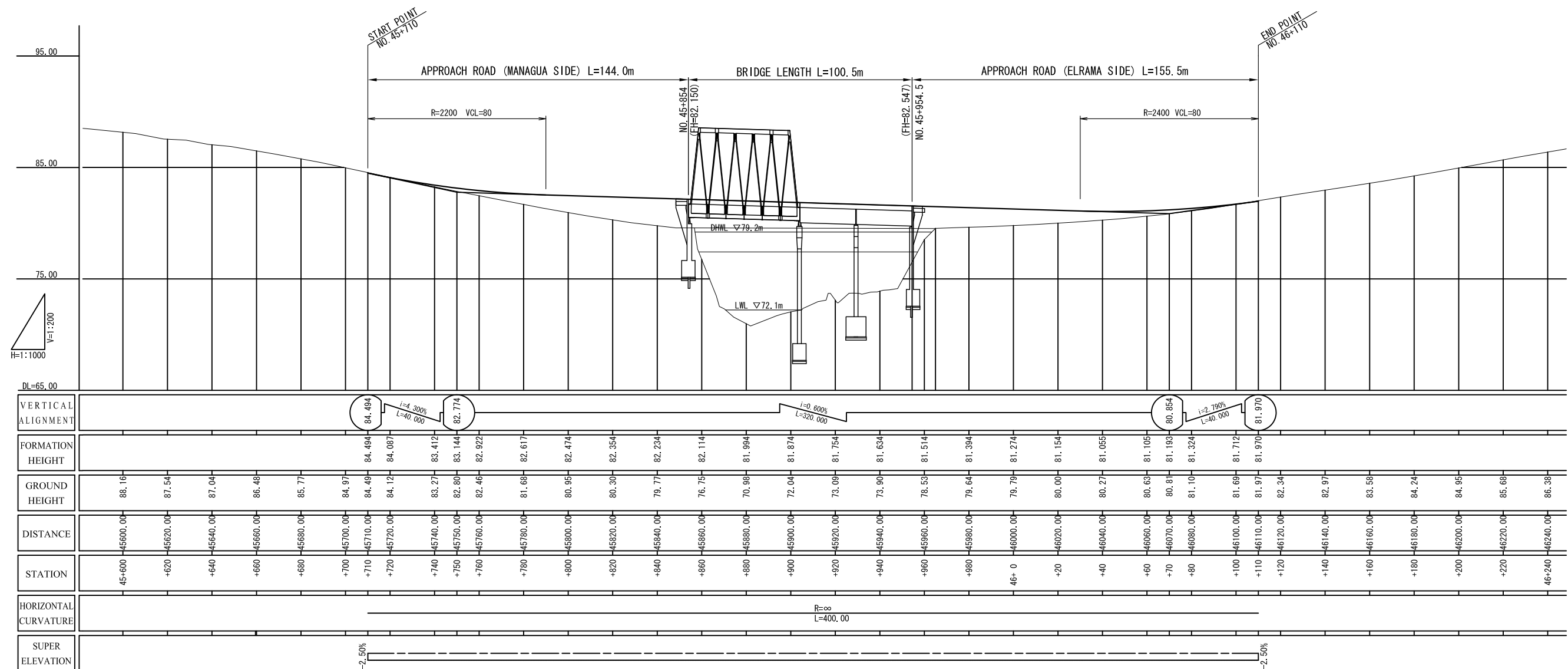
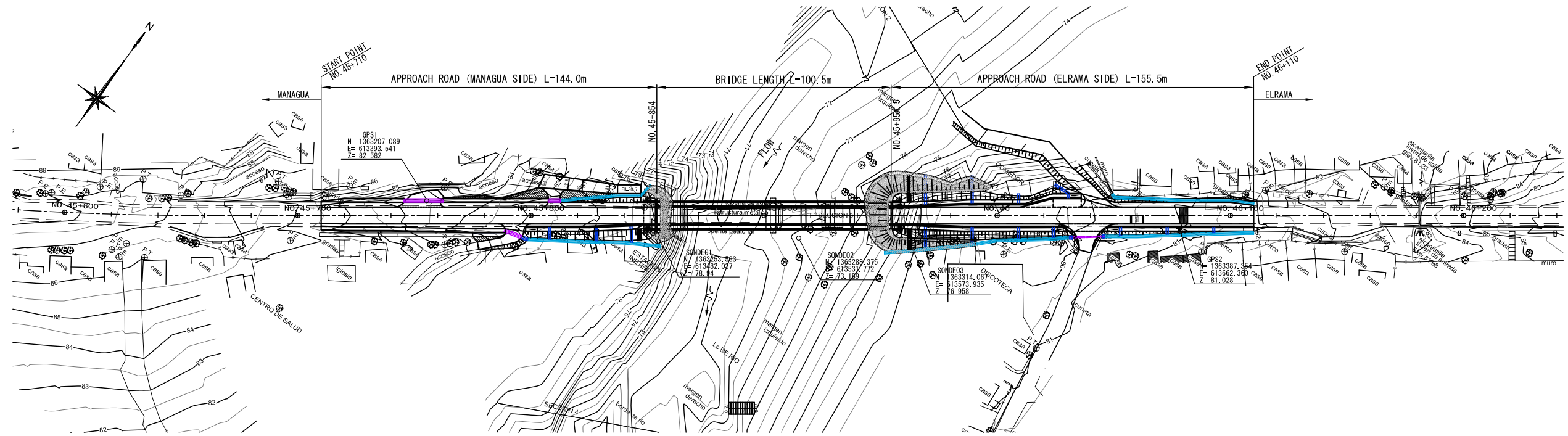
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CTI ENGINEERING INTERNATIONAL CO., LTD.

TITLE :
LOCATION MAP (LAS BANDERAS)

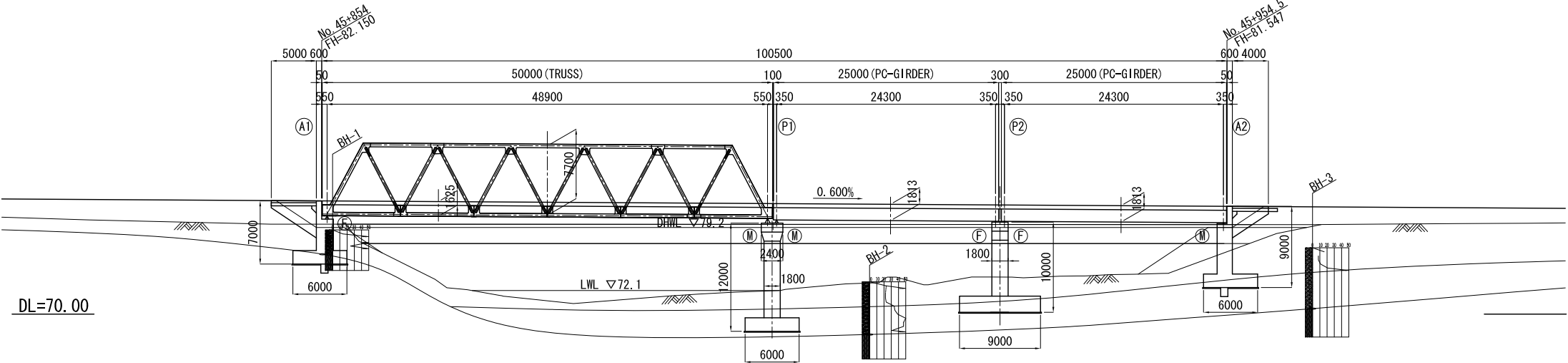
SCALE(A1size)
1:1,500,000

Drawing No.
LB-01



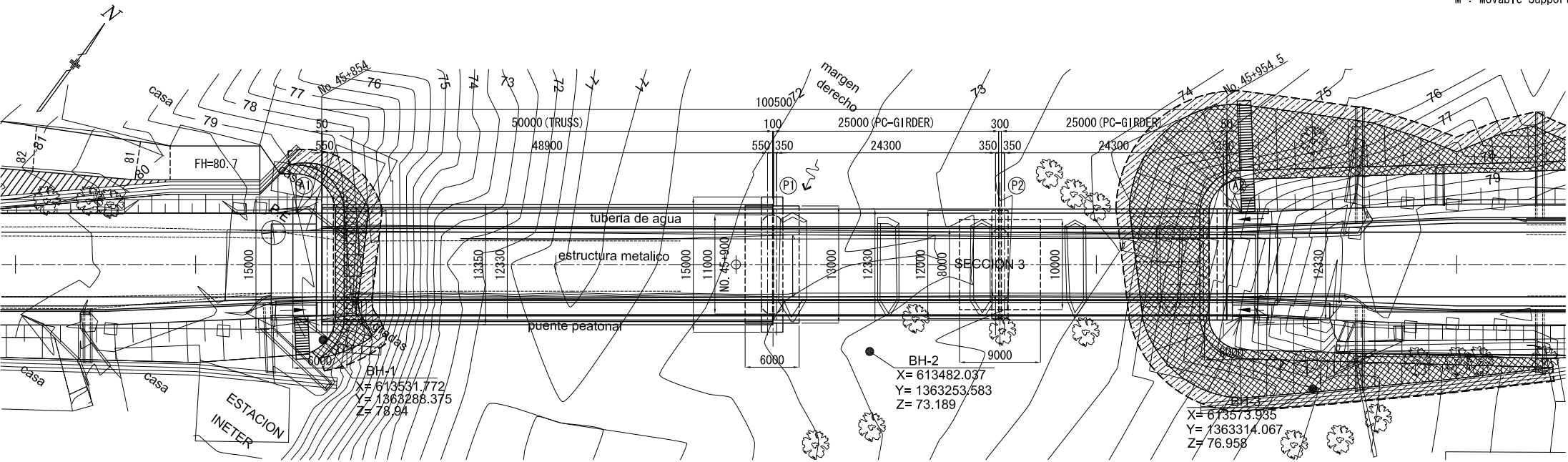
VERTICAL ALIGNMENT																								
FORMATION HEIGHT																								
GROUND HEIGHT	88.16	87.54	87.04	86.48	85.77	84.97	84.49	84.08	83.27	82.80	82.46	81.68	80.95	80.30	79.77	76.75	70.98	72.04	73.09	73.90	78.53	79.64	79.79	80.00
DISTANCE	45+600.00	45+620.00	45+640.00	45+660.00	45+680.00	45+700.00	45+710.00	45+720.00	45+740.00	45+750.00	45+760.00	45+780.00	45+800.00	45+820.00	45+840.00	45+860.00	45+880.00	45+900.00	45+920.00	45+940.00	45+960.00	45+980.00	46+000.00	46+020.00
STATION	45+600	+620	+640	+660	+680	+700	+710	+720	+740	+750	+760	+780	+800	+820	+840	+860	+880	+900	+920	+940	+960	+980	46+0	+20
HORIZONTAL CURVATURE																								
SUPER ELEVATION																								

GENERAL VIEW OF LAS BANDERAS BRIDGE

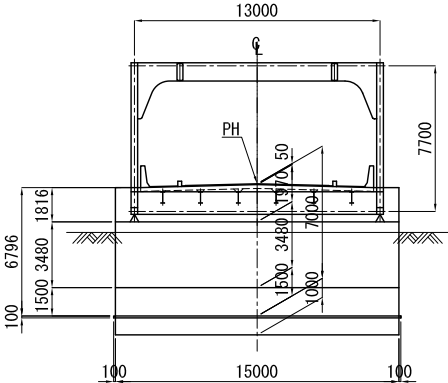


PROFILE SCALE 1:300

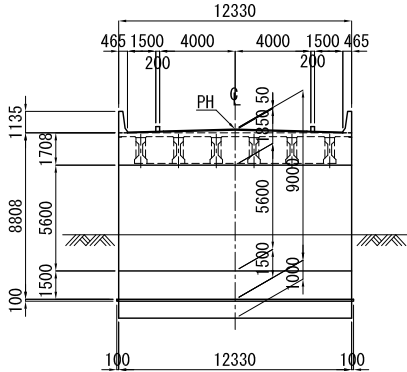
Note
F : Fixed Support
M : Movable Support



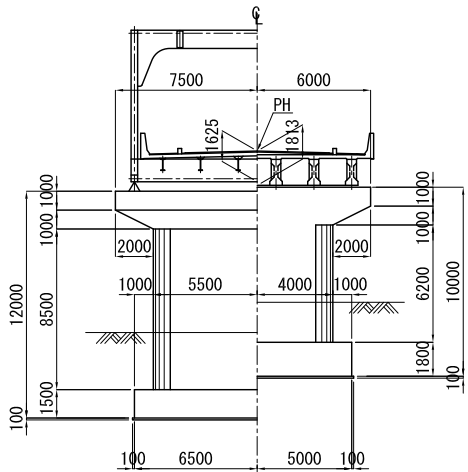
PLAN SCALE 1:300



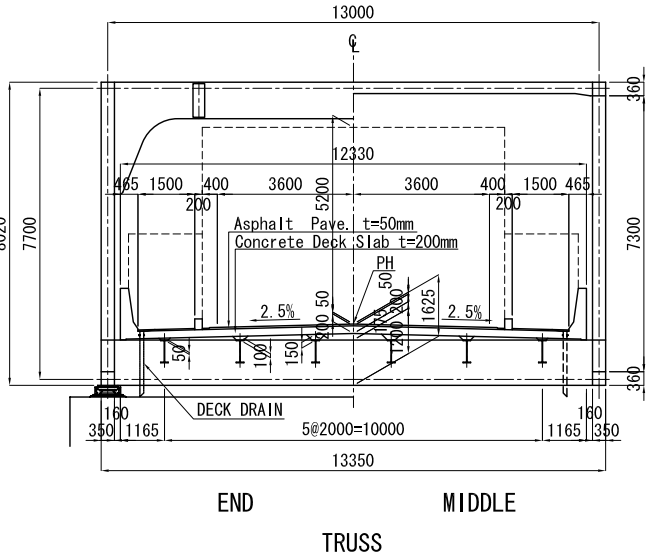
A1 ABUTMENT SCALE 1:200



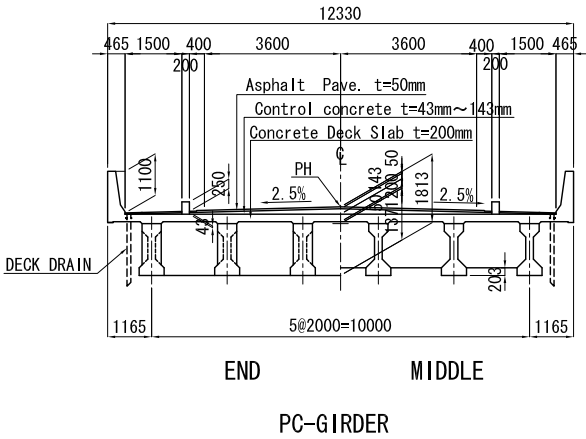
A2 ABUTMENT SCALE 1:200



DESIGN CRITERIA	
Classification of Road	Arterial Road
Design Speed	80km/h
Live load	AASHTO HS20-44 $\times$ 125% or equivalent
Bridge Length	100.50m
Span Length	48.90m+24.30m+24.30m
Total Width	12.33m (Roadway 2 $\times$ 3.60m, Sidwalk 2 $\times$ 1.50m)
Design Seismic Coefficient	kh=0.3
Superstructure Type	Steel Truss and PC I-Girder
Substructure Type	Reversed T abutment, wall type concrete pier
Foundation Type	Spread Footing
Specification Criteria	Specifications for Highway Bridges (Japan Road Asso.) Standard Specifications for Highway Bridges (AASHTO)



BRIDGE CROSS SECTION SCALE 1:100



PC GIRDER TYPE IV SCALE 1:30

DETAILS OF RAILING SCALE 1:30

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TITLE :

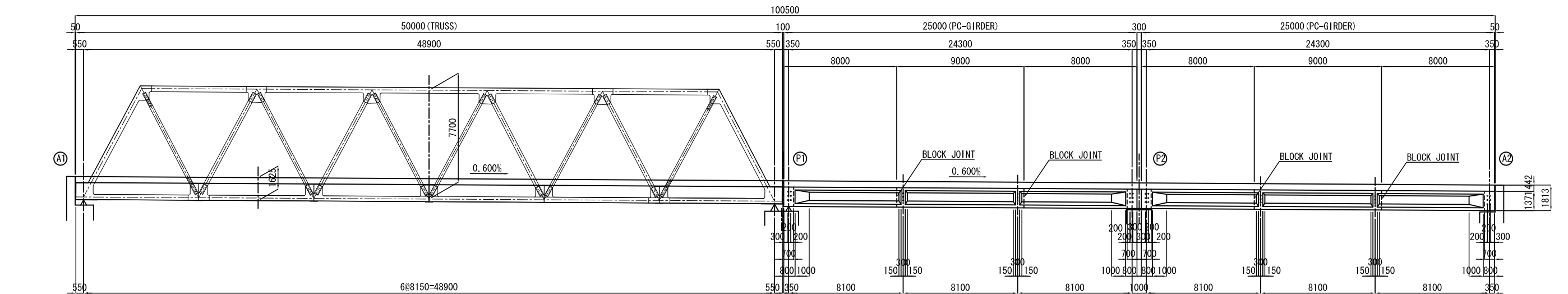
GENERAL VIEW OF BRIDGE

SCALE (A1 size) :
AS SHOWN

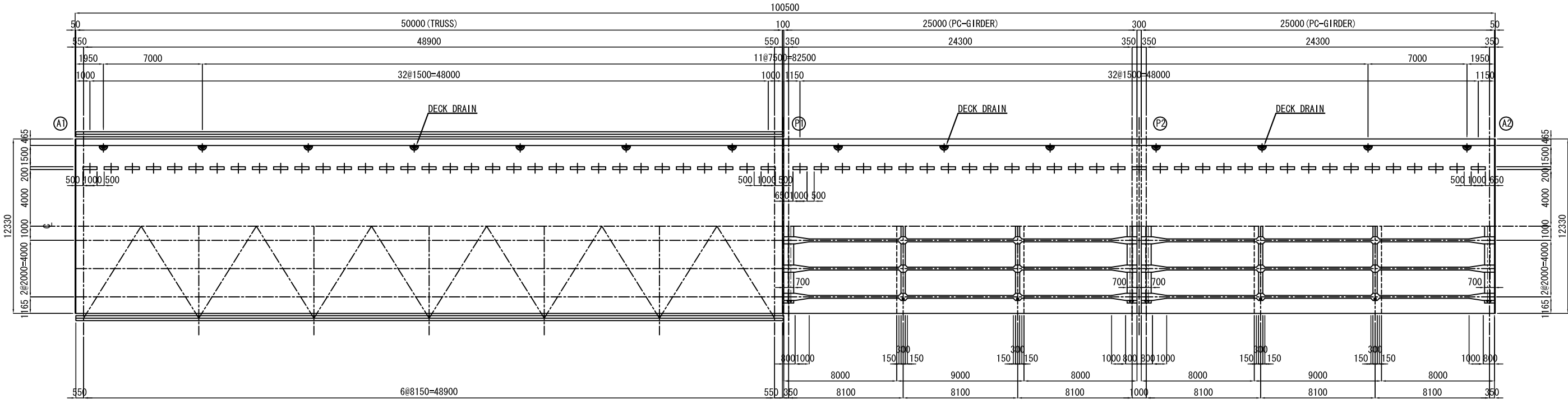
DRAWING NO. :
LB-03

STRUCTURAL DRAWING OF SUPERSTURCTURE

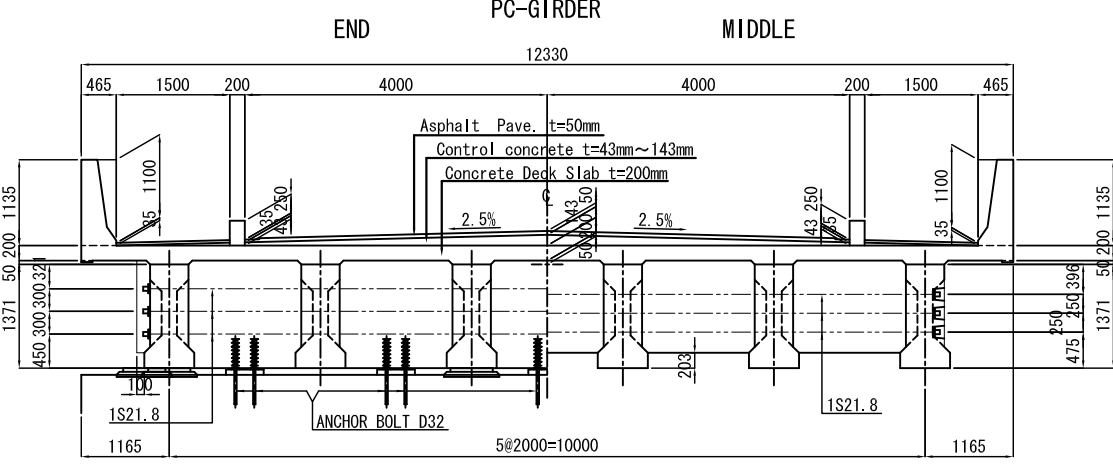
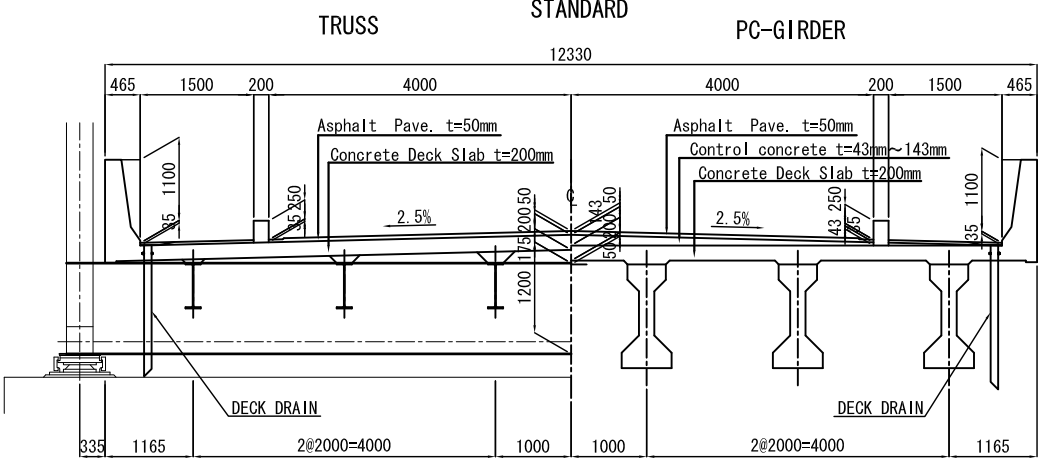
ELEVATION SCALE 1:150



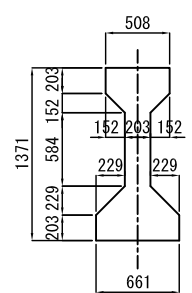
PLAN SCALE 1:150



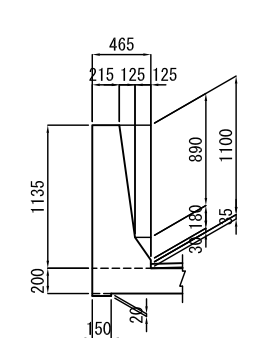
BRIDGE CROSS SECTION SCALE 1:50



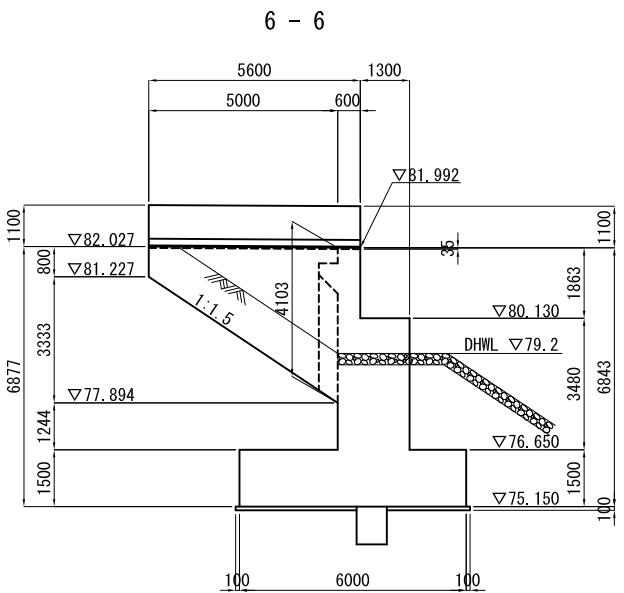
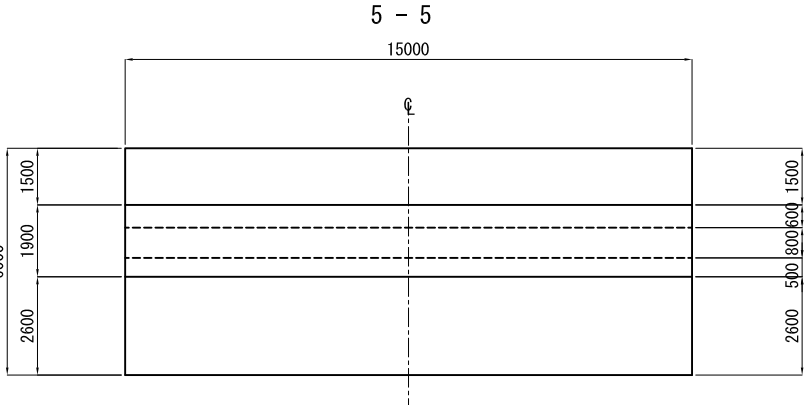
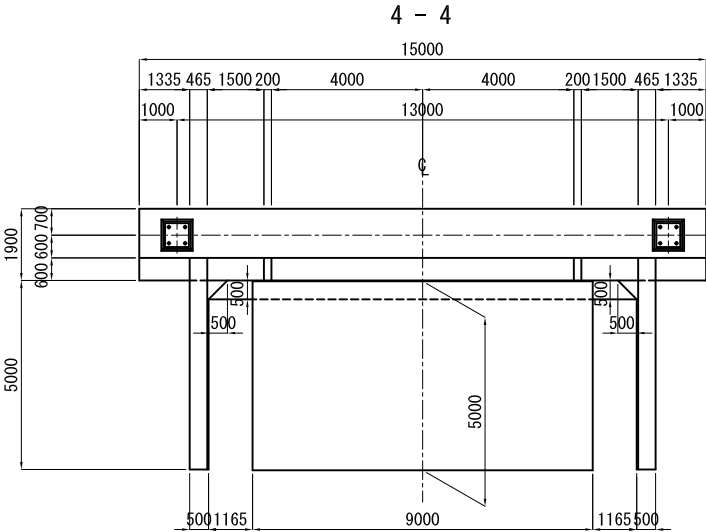
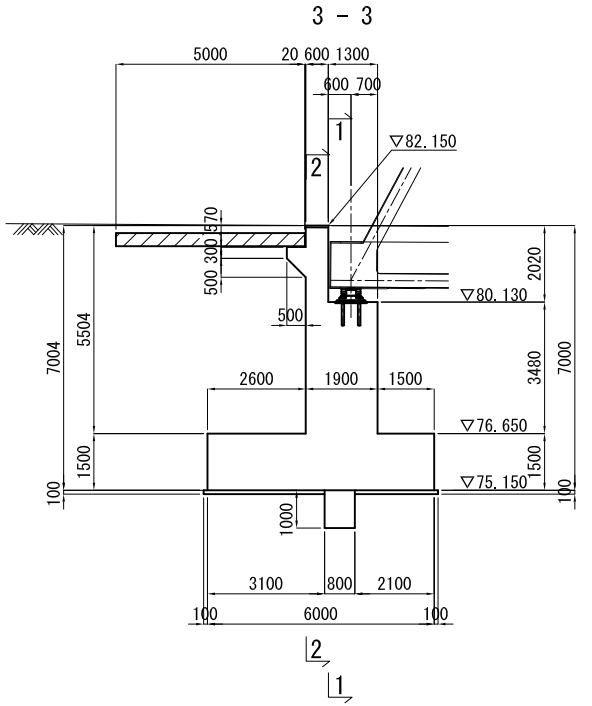
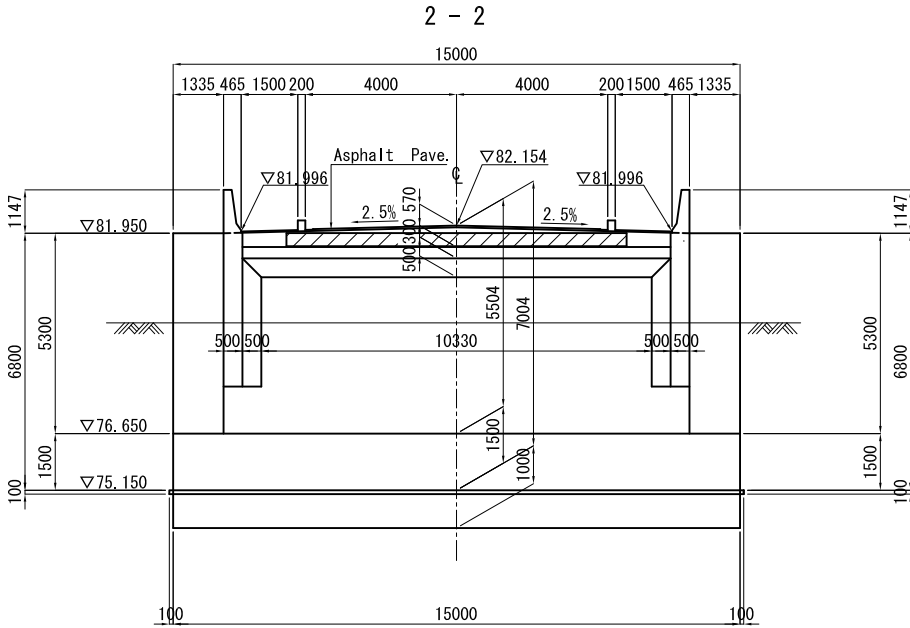
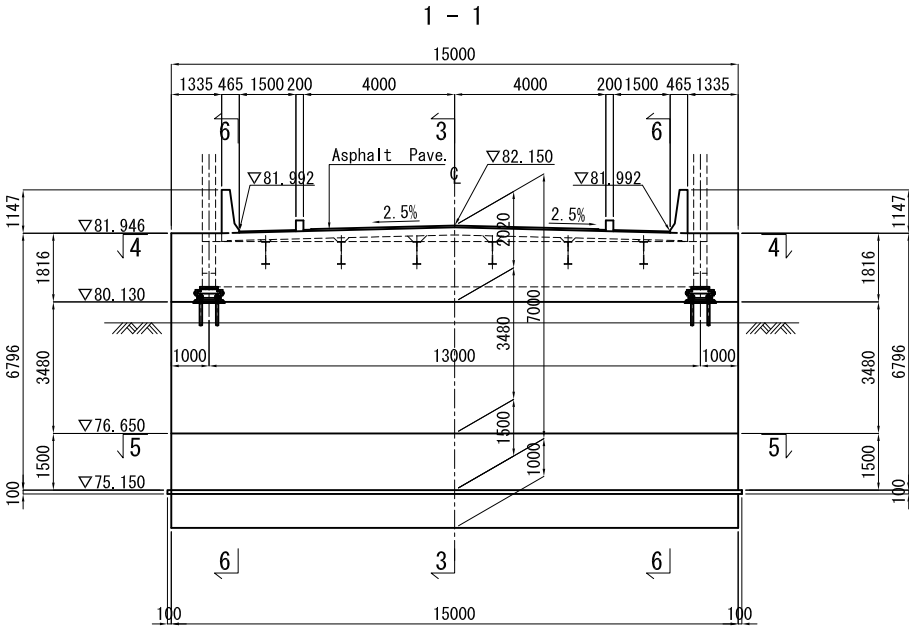
PC GIRDER TYPE IV SCALE 1:30



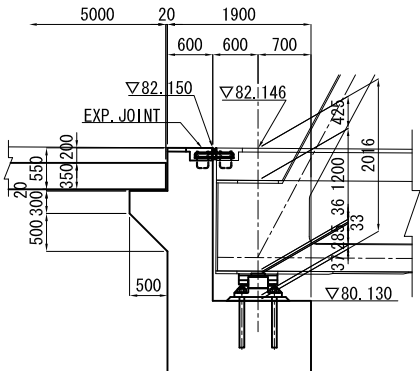
DETAILS OF RAILING SCALE 1:30



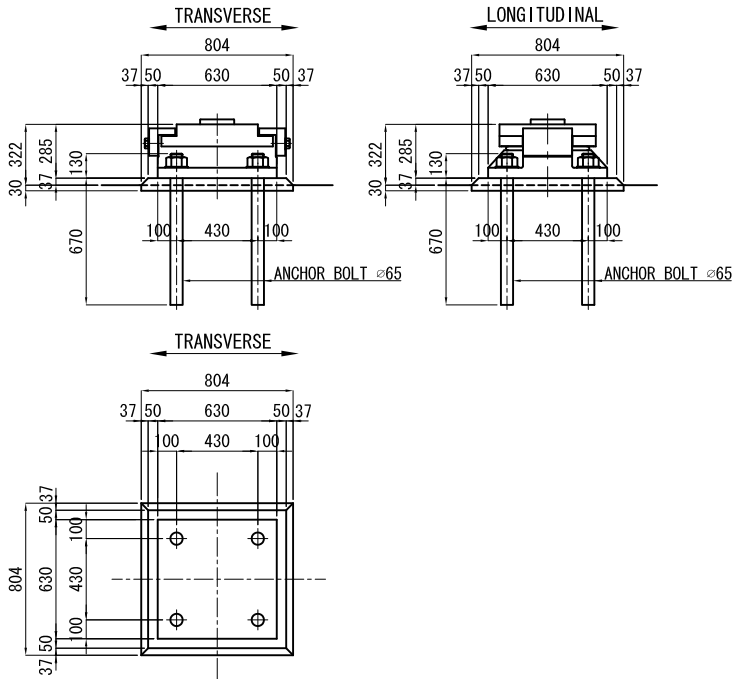
STRUCTURAL DRAWING OF A1 ABUTMENT SCALE 1:100



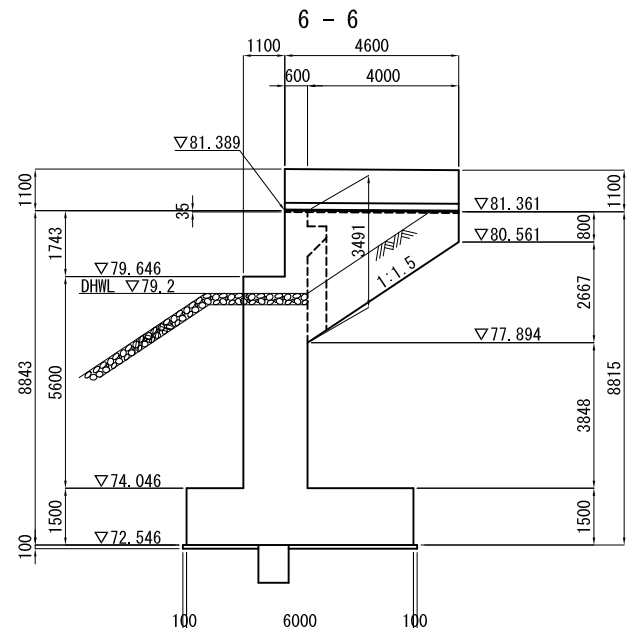
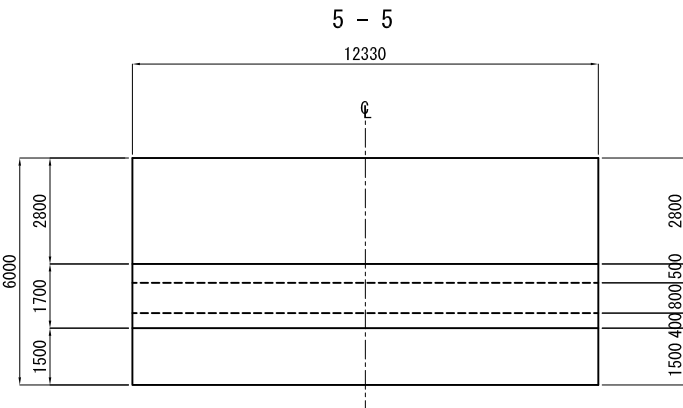
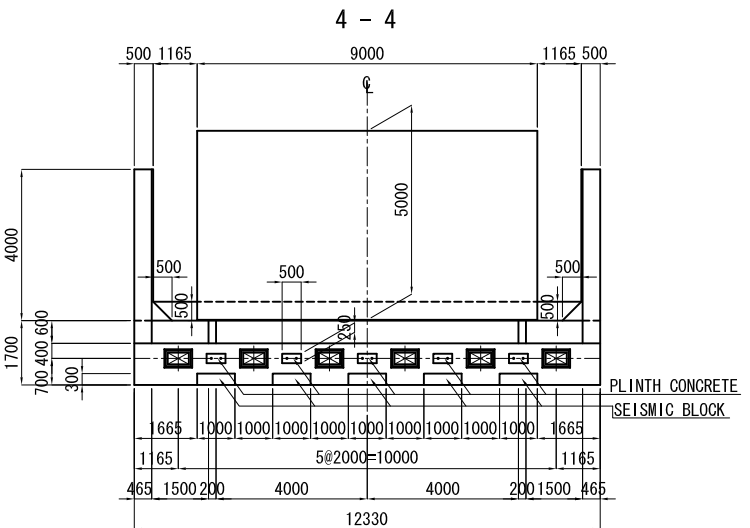
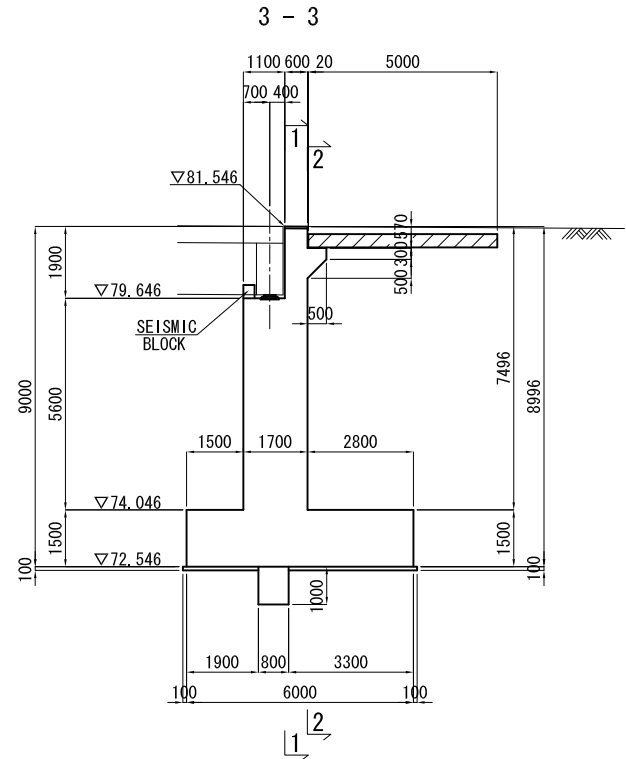
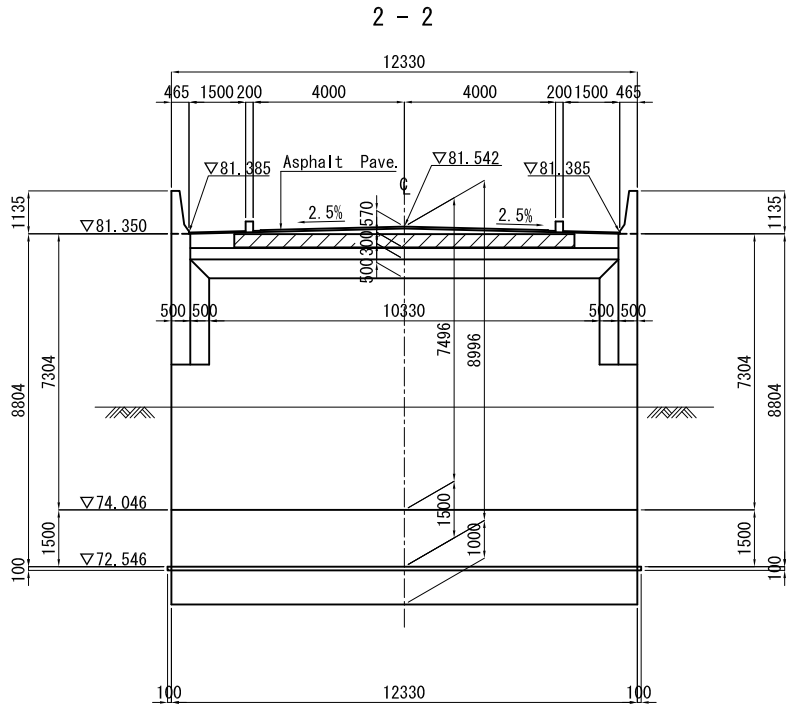
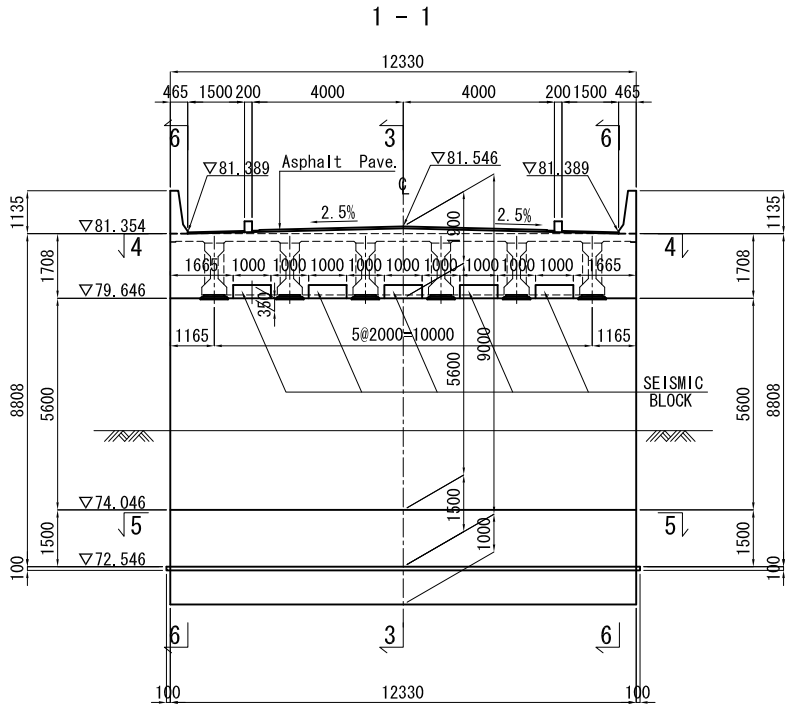
DETAILS SCALE 1:50



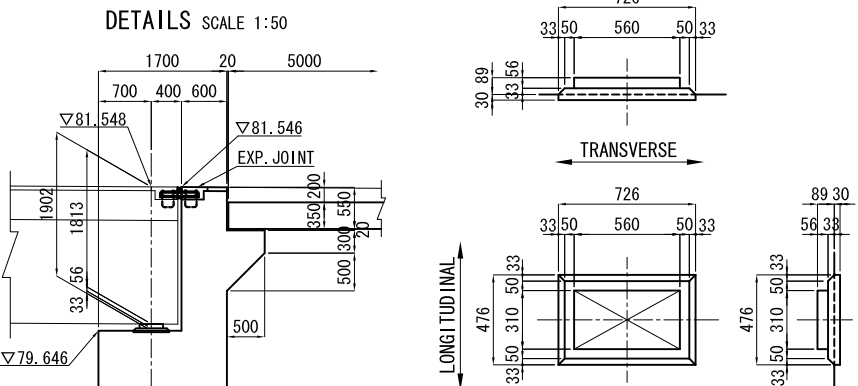
DETAILS SCALE 1:20



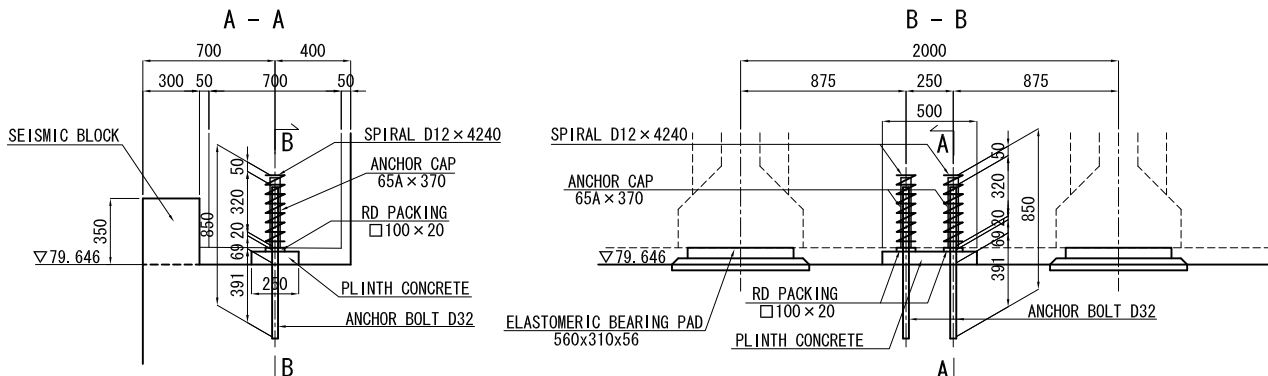
STRUCTURAL DRAWING OF A2 ABUTMENT SCALE 1:100



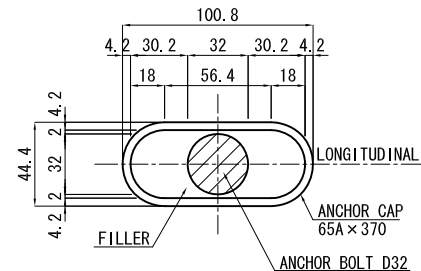
DETAILS SCALE 1:20



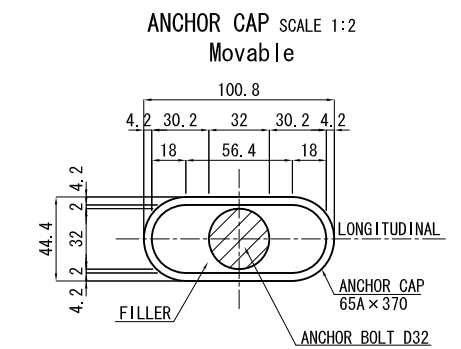
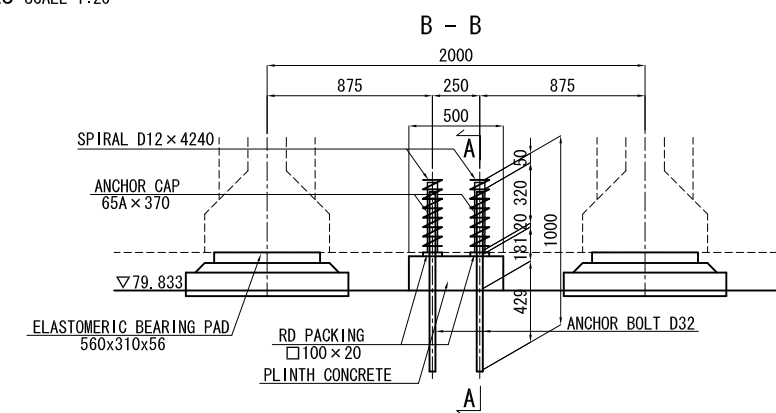
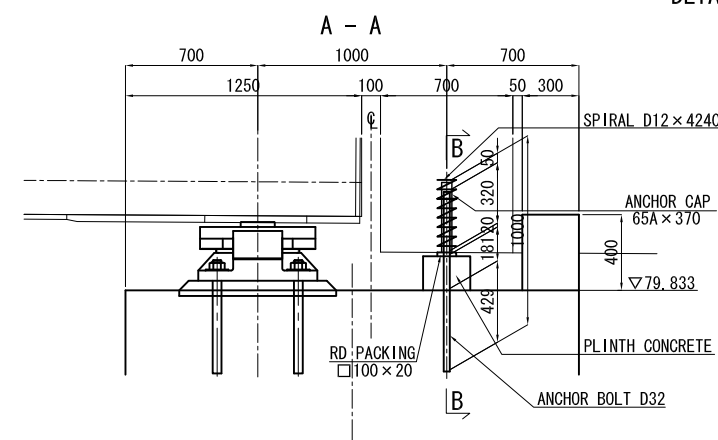
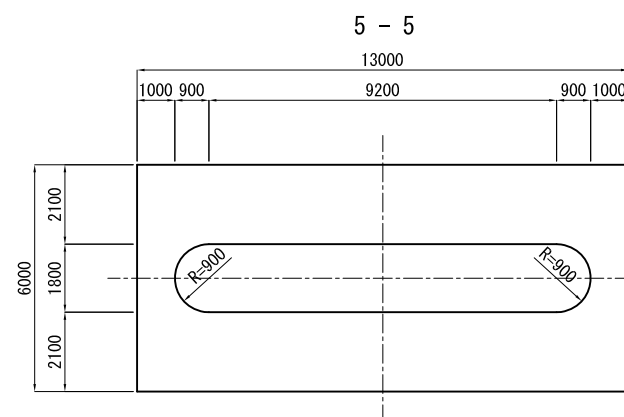
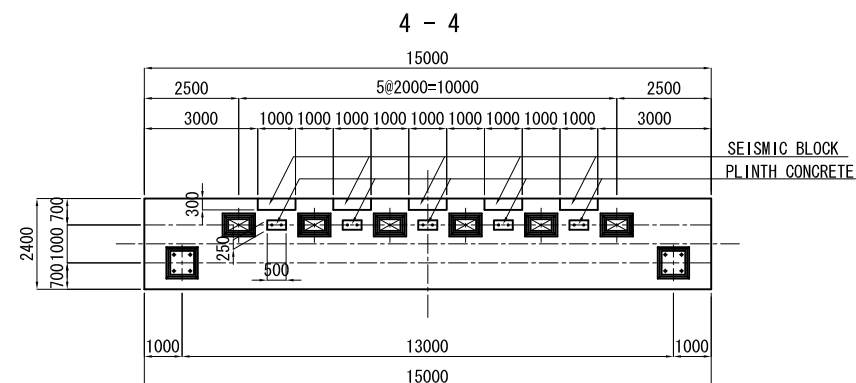
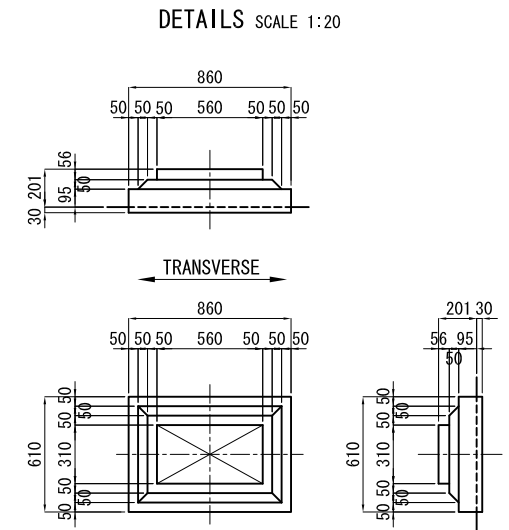
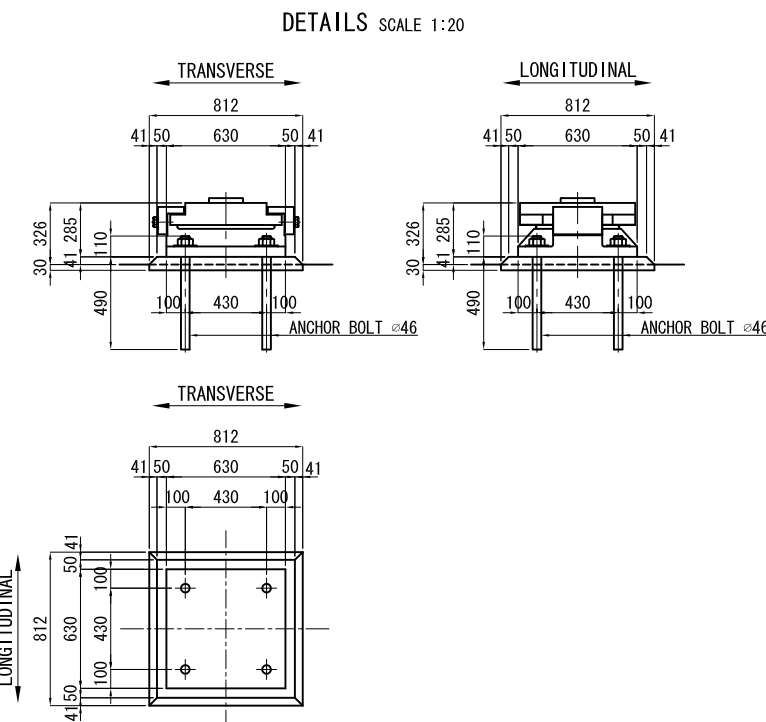
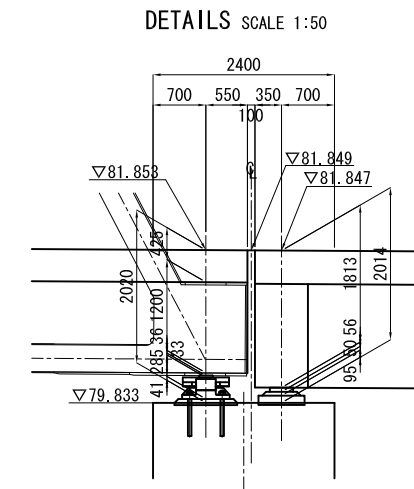
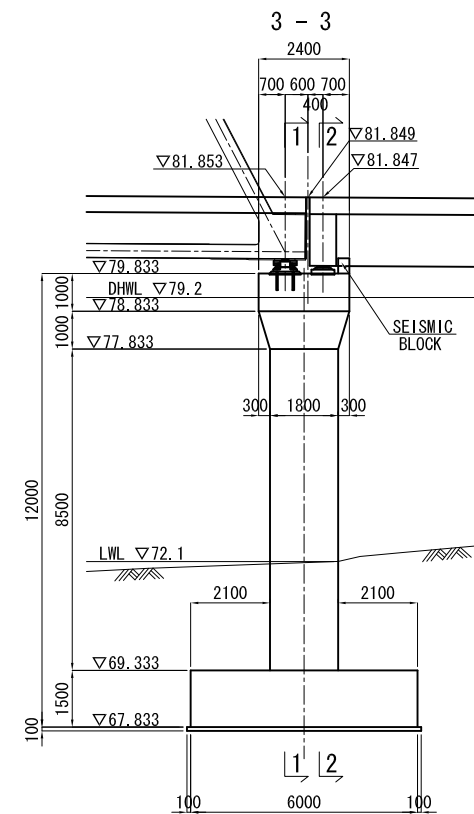
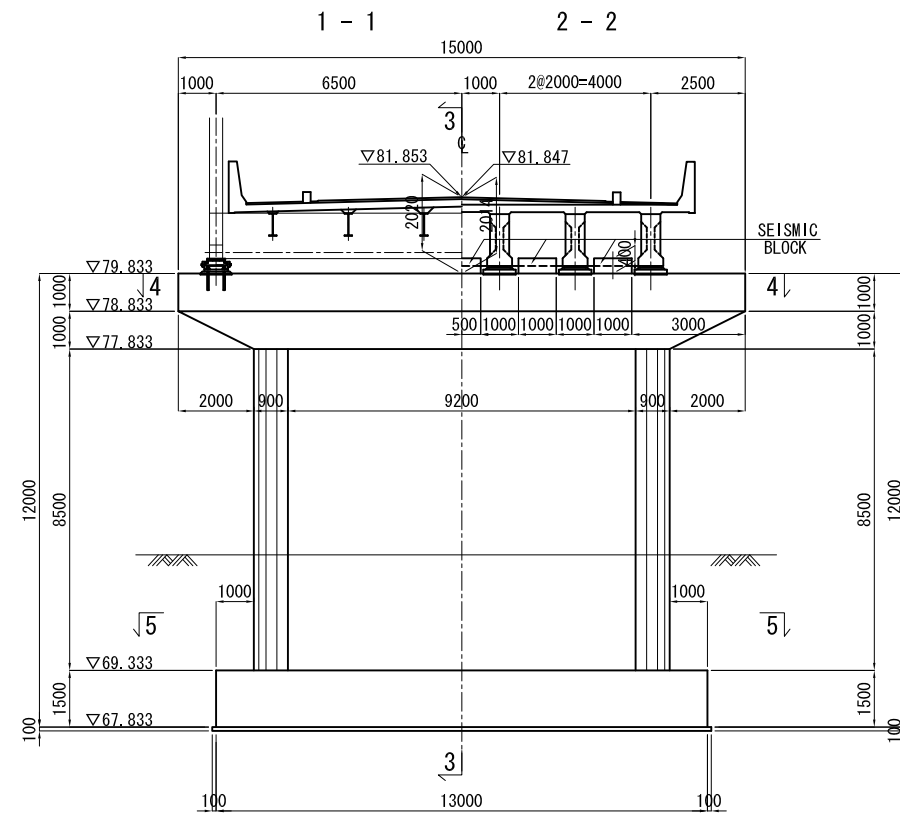
DETAILS SCALE 1:20



ANCHOR CAP SCALE 1:2
Movable



STRUCTURAL DRAWING OF P1 BRIDGE PIER SCALE 1:100



STRUCTURAL DRAWING OF P2 BRIDGE PIER SCALE 1:100

