TECOLOSTOTE BRIDGE

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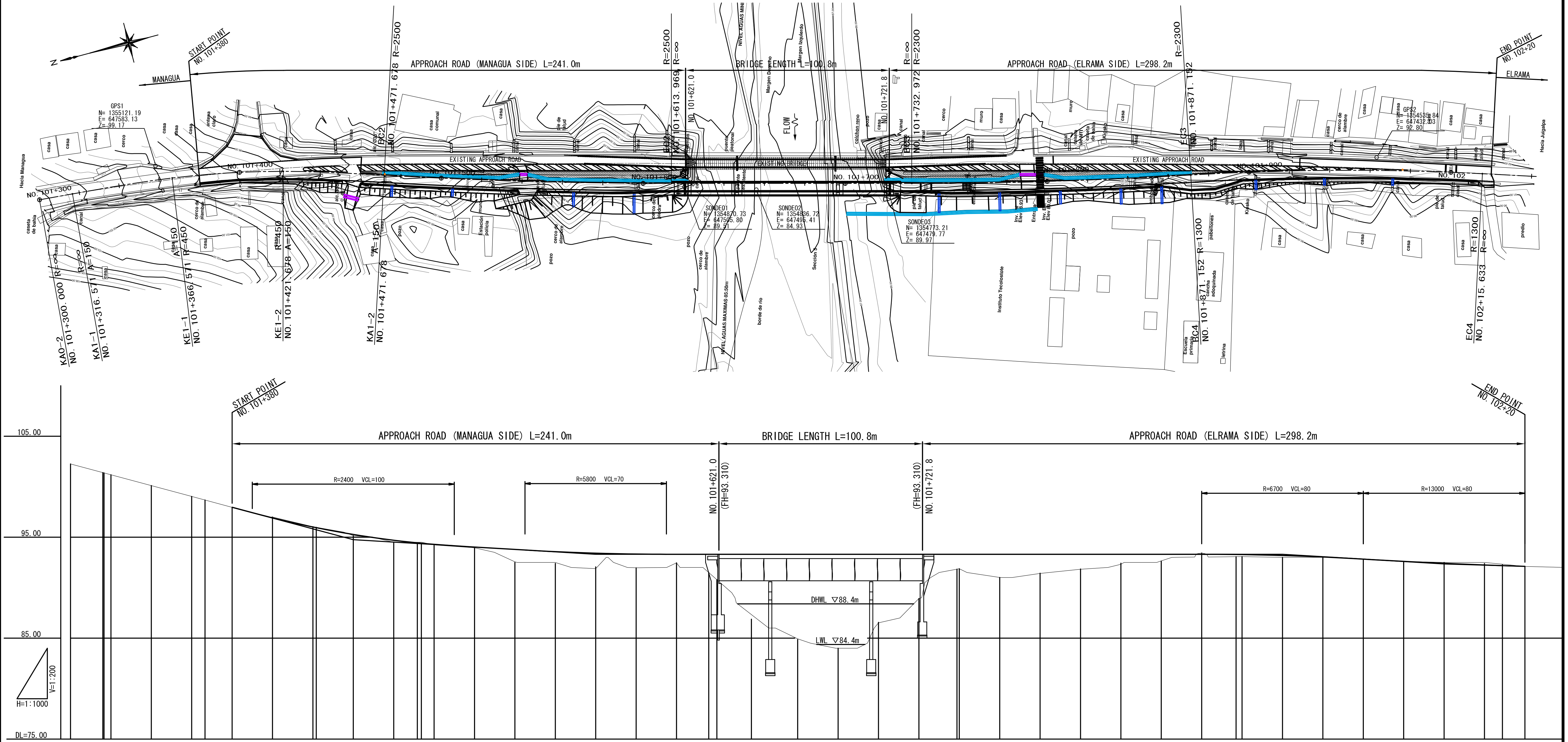
MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : LOCATION MAP (TECOLOCTOTE)	SCALE(A1size) 1:1,500,000	Drawing No. TE-01



VERTICAL ALIGNMENT: 97.966 — i=5.360% L=60.000 — 94.750 — i=1.200% L=120.000 — 93.310 — level L=340.000 — 93.310 — i=1.200% L=80.000 — 92.350 — i=0.585% L=40.000 — 92.116

STATION	DISTANCE	GROUND HEIGHT	FORMATION HEIGHT
KA0-2	101300.00	102.25	
101+316	101316.00	101.40	
KA1-1	101316.57	101.37	
101+320	101320.00	101.18	
+340	101340.00	100.13	
+360	101360.00	99.04	
KE1-1	101366.57	98.68	
+380	101380.00	97.96	97.966
+400	101400.00	97.00	96.915
+420	101420.00	96.04	96.009
KE1-2	101421.68	95.98	95.941
+440	101440.00	95.15	95.270
+460	101460.00	94.50	94.697
KA1-2 BC2	101471.68	94.50	94.440
+480	101480.00	94.23	94.291
+500	101500.00	93.95	94.030
+520	101520.00	92.56	93.790
+540	101540.00	92.50	93.569
+560	101560.00	91.89	93.415
+580	101580.00	91.97	93.329
+600	101600.00	92.46	93.310
EC2	101613.97	91.85	93.310
+620	101620.00	90.79	93.310
+640	101640.00	86.88	93.310
+660	101660.00	84.94	93.310
+680	101680.00	84.00	93.310
+700	101700.00	86.52	93.310
+720	101720.00	88.72	93.310
BC3	101732.97	91.61	93.310
+740	101740.00	91.87	93.310
+760	101760.00	91.01	93.310
+780	101780.00	91.41	93.310
+800	101800.00	91.83	93.310
+820	101820.00	92.32	93.310
+840	101840.00	92.66	93.310
+860	101860.00	93.43	93.310
EC3 BC4	101871.15	93.06	93.301
+880	101880.00	93.08	93.280
+900	101900.00	93.00	93.190
+920	101920.00	93.00	93.040
+940	101940.00	92.84	92.830
+960	101960.00	92.60	92.605
+980	101980.00	92.50	92.412
102+ 0	102000.00	92.50	92.248
EC4	102015.63	92.19	92.143
+20	102020.00	92.11	92.116

HORIZONTAL CURVATURE: R=∞ L=16.571 — A=150 L=50.000 — R=450 L=55.107 — A=150 L=50.000 — R=2500 L=142.290 — R=∞ L=119.004 — R=2300 L=138.180 — R=1300 L=144.480 — R=∞ L=26.721

SUPER ELEVATION: As Existing — -6.00% — -2.50% — -2.00% — -3.00% — As Existing — -3.00%

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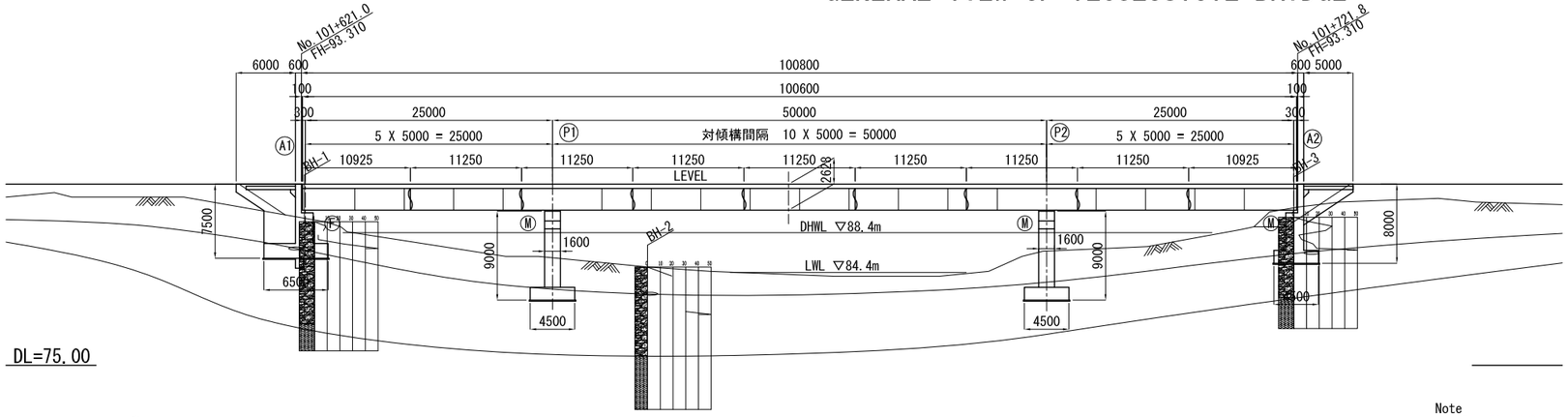
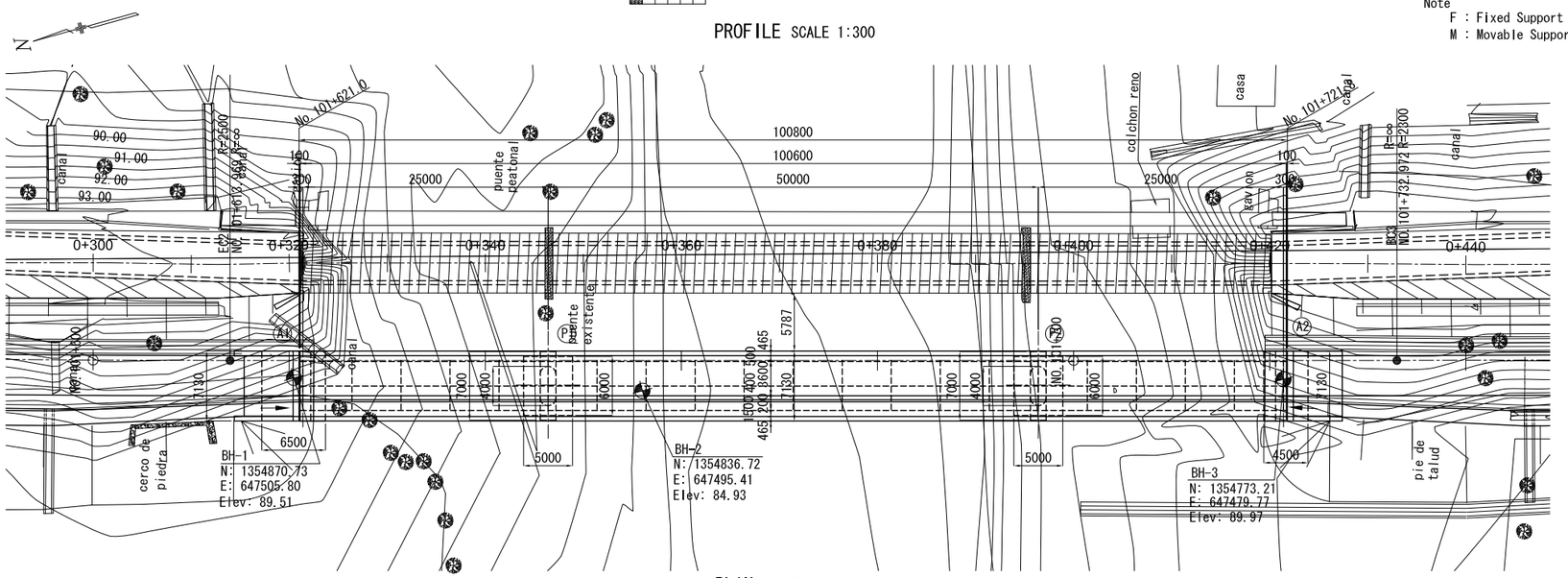
GENERAL VIEW OF TECOLOSTOTE BRIDGE

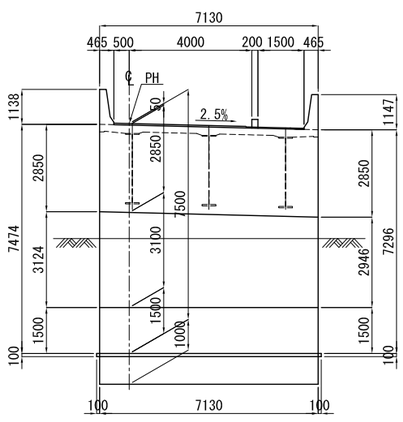


PROFILE SCALE 1:300

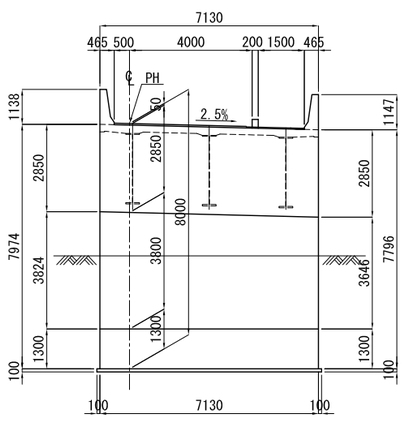
Note
F : Fixed Support
M : Movable Support



PLAN SCALE 1:300

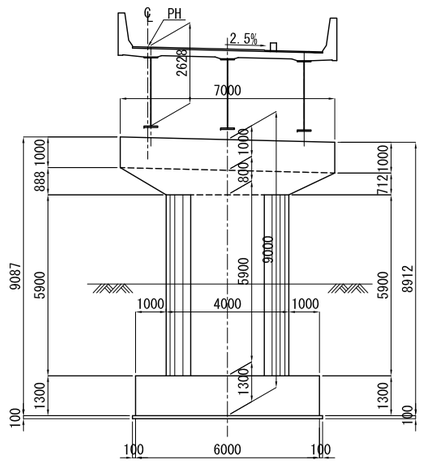


A1

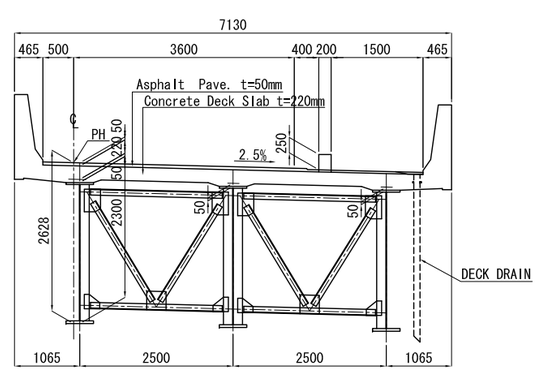


A2

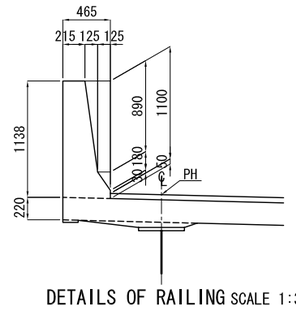
ABUTMENT SCALE 1:100



P1, P2 PIERS SCALE 1:100



BRIDGE CROSS SECTION SCALE 1:50



DETAILS OF RAILING SCALE 1:30

DESIGN CRITERIA

Classification of Road	Arterial Road
Design Speed	80km/h
Live load	AASHTO HS20-44×125% or equivalent
Bridge Length	100.80m
Span Length	25.00m+50.00m+25.00m
Total Width	7.13m(Roadway 3.60m, Sidwalk 1.50m)
Design Seismic Coefficient	kh=0.2
Superstructure Type	Steel 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)

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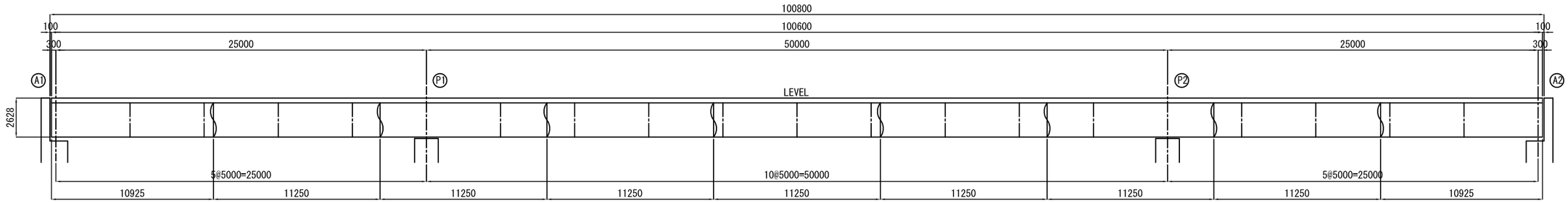
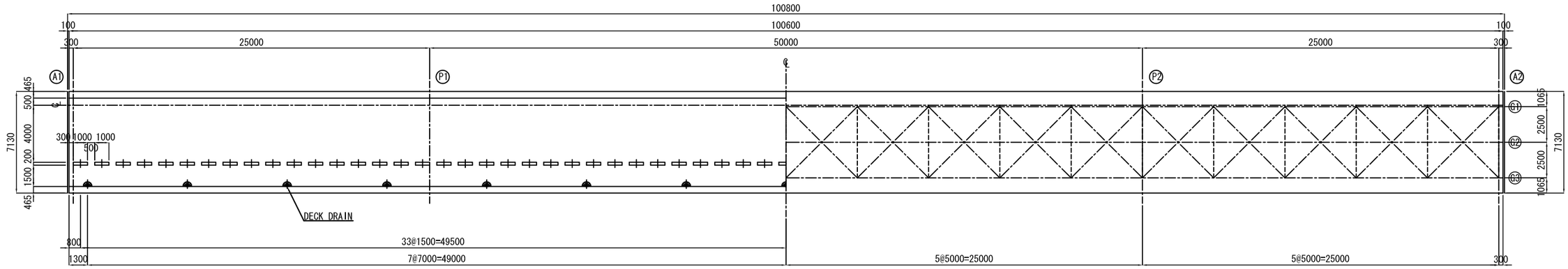
STRUCTURAL DRAWING OF SUPERSTURUCTURE

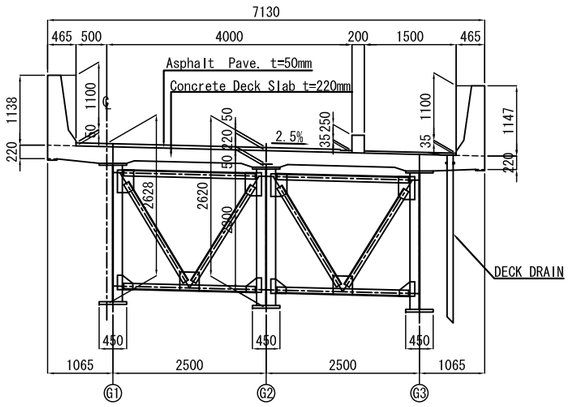
ELEVATION SCALE 1:150



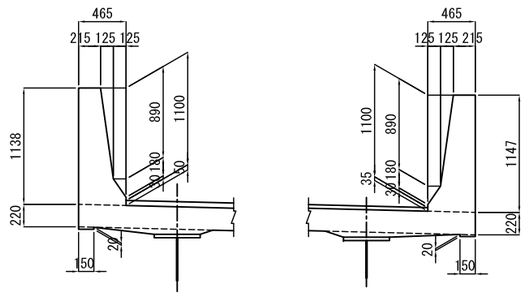
PLAN SCALE 1:150



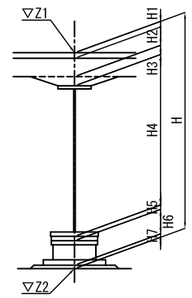
BRIDGE CROSS SECTION SCALE 1:50



DETAILS OF RAILING SCALE 1:30



DETAIL



Z1 : FORMATION HEIGHT
H1 : PAVEMENT THICKNESS
H2 : SLAB THICKNESS
H3 : HAUNCH HEIGHT
H4 : HEIGHT OF GIRDER
H5 : SOLE PLATE
H6 : BEARING HEIGHT
H7 : MORTAR THICKNESS
H : TOTAL HEIGHT
Z2 : ELEVATION OF TOP OF PIER/ABUTMENT

DIMENSION TABLE

(m)

		A1(S1)			P1			P2			A2(S2)		
		G1	G2	G3	G1	G2	G3	G1	G2	G3	G1	G2	G3
FORMATION HEIGHT	Z1	93.308	93.245	93.168	93.308	93.245	93.168	93.308	93.245	93.168	93.308	93.245	93.168
PAVEMENT THICKNESS	H1	0.050	0.050	0.035	0.050	0.050	0.035	0.050	0.050	0.035	0.050	0.050	0.035
SLAB THICKNESS	H2	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
HAUNCH HEIGHT	H3	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
HEIGHT OF GIRDER	H4	2.300	2.300	2.300	2.300	2.300	2.300	2.300	2.300	2.300	2.300	2.300	2.300
SOLE PLATE	H5	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
BEARING HEIGHT	H6	0.185	0.185	0.185	0.260	0.260	0.260	0.260	0.260	0.260	0.185	0.185	0.185
MORTAR THICKNESS	H7	0.073	0.073	0.073	0.050	0.050	0.050	0.050	0.050	0.050	0.073	0.073	0.073
TOTAL HEIGHT	H	2.900	2.900	2.885	2.952	2.952	2.937	2.952	2.952	2.937	2.900	2.900	2.885
ELEVATION OF TOP OF PIER/ABUTMENT	Z2	90.408	90.345	90.283	90.356	90.293	90.231	90.356	90.293	90.231	90.408	90.345	90.283

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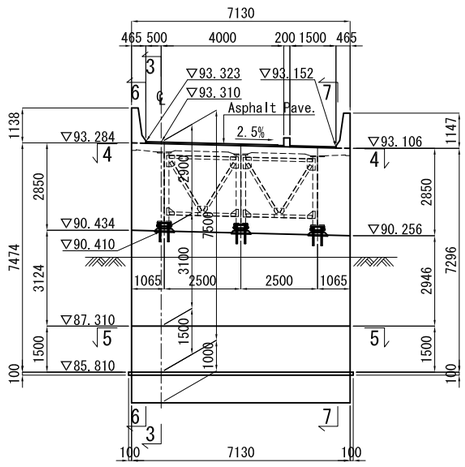
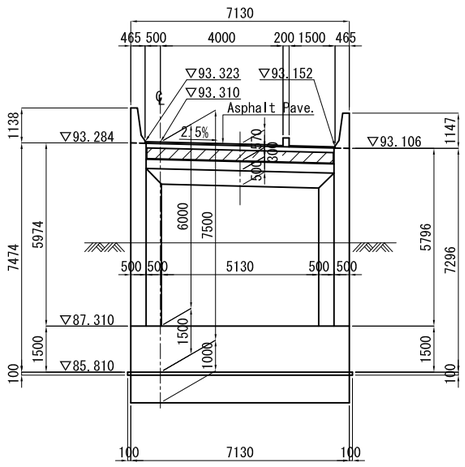
STRUCTURAL DRAWING OF A1 ABUTMENT SCALE 1:100

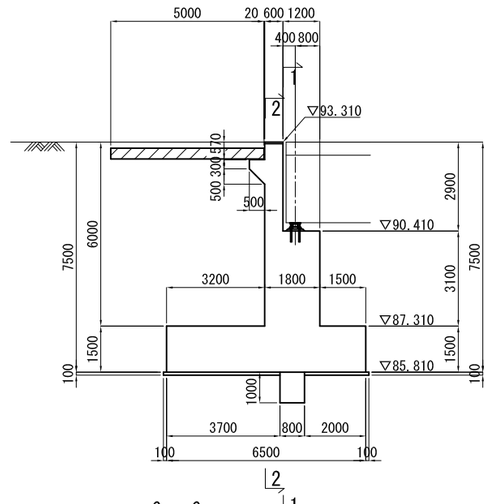
1 - 1



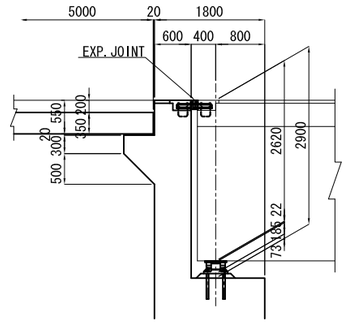
2 - 2



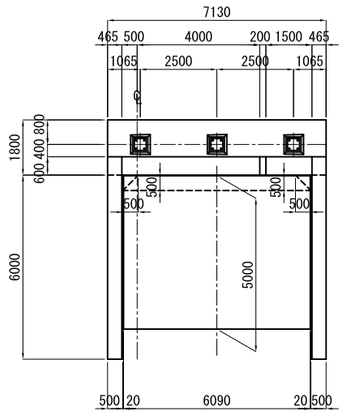
3 - 3



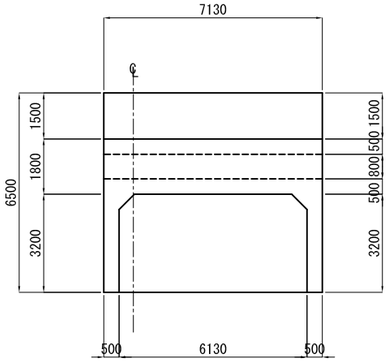
DETAILS SCALE 1:50



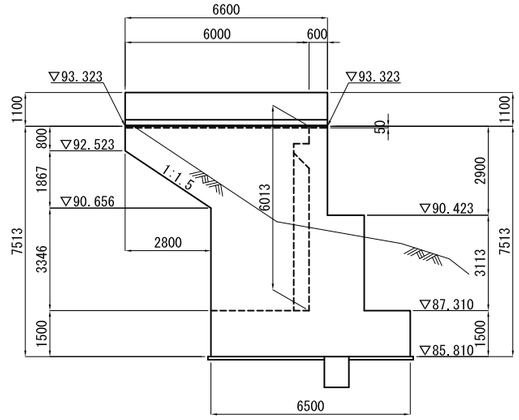
4 - 4



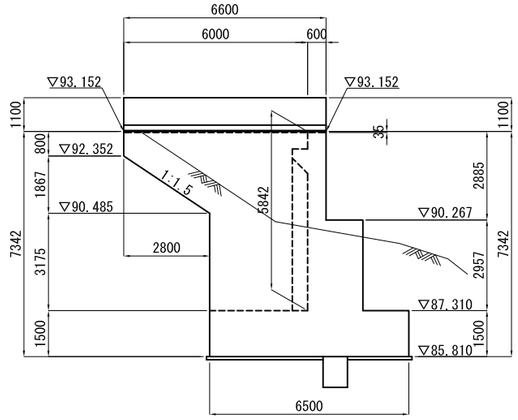
5 - 5



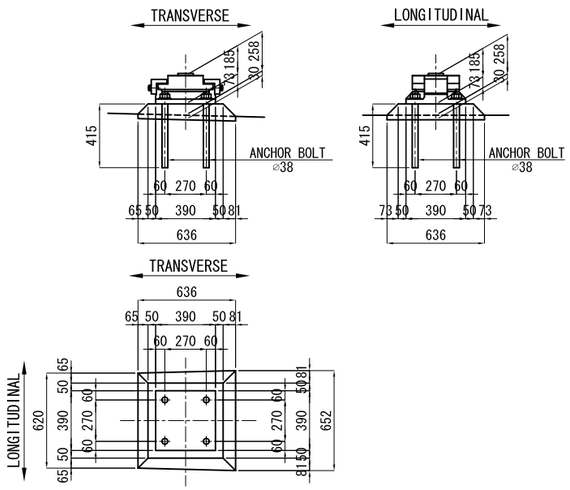
6 - 6



7 - 7



DETAILS SCALE 1:20



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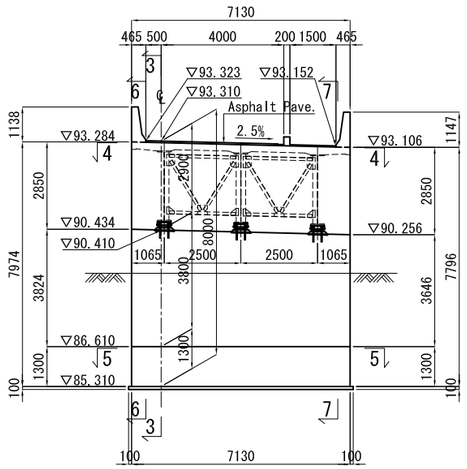
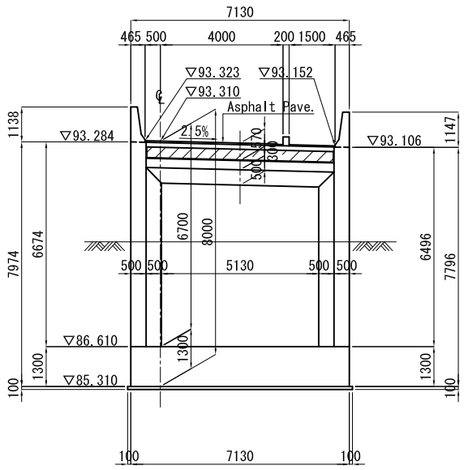
STRUCTURAL DRAWING OF A2 ABUTMENT SCALE 1:100

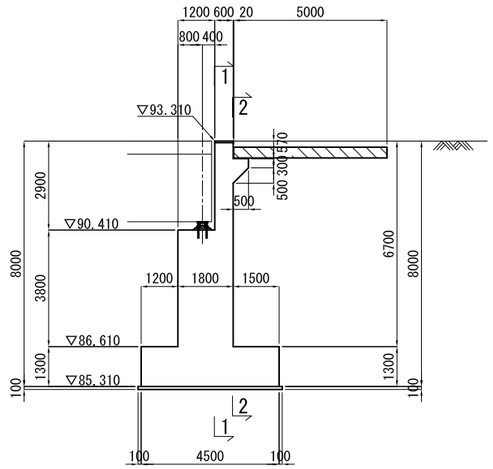
1 - 1



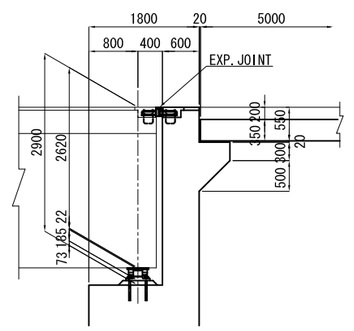
2 - 2



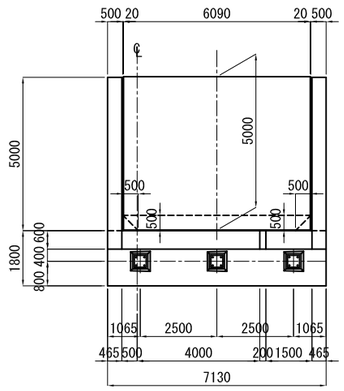
3 - 3



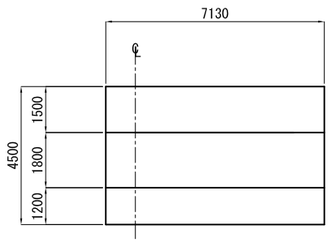
DETAILS SCALE 1:50



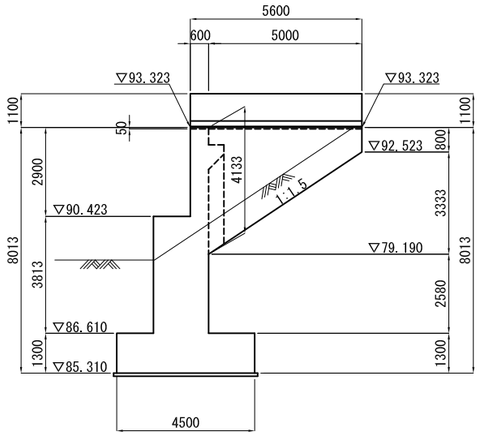
4 - 4



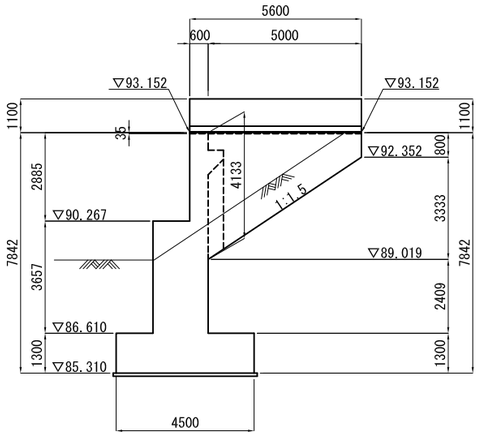
5 - 5



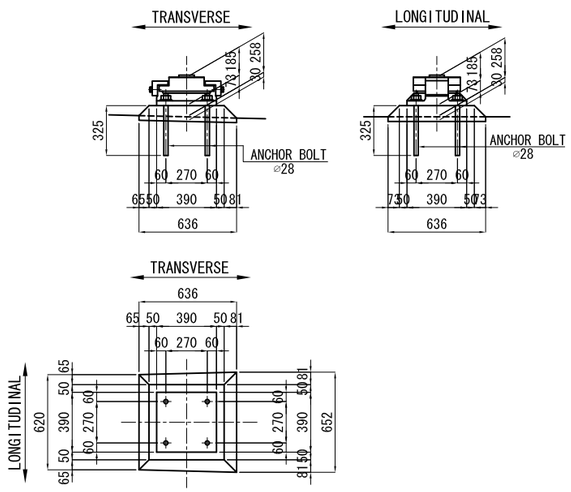
6 - 6



7 - 7



DETAILS SCALE 1:20



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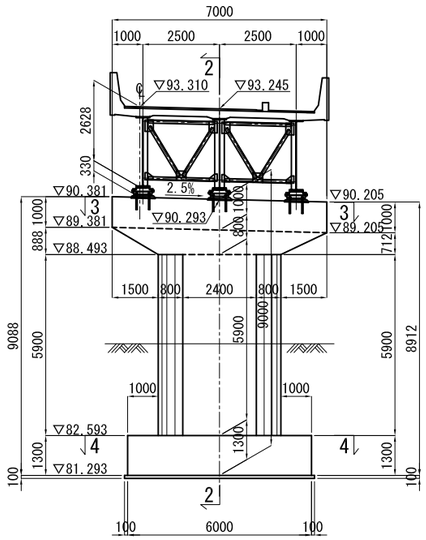
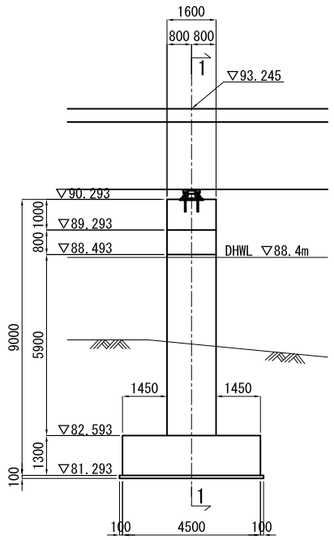
STRUCTURAL DRAWING OF P1, P2 BRIDGE PIER SCALE 1:100

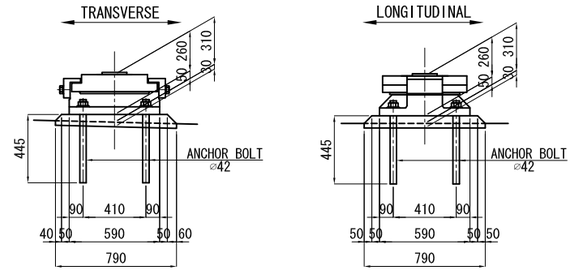
1 - 1

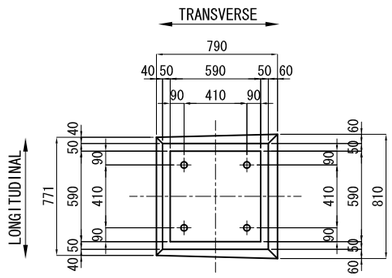


2 - 2

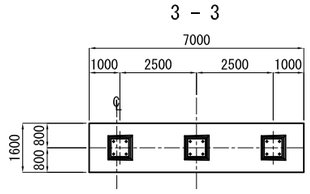


DETAILS SCALE 1:20

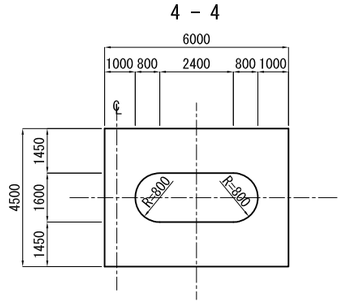




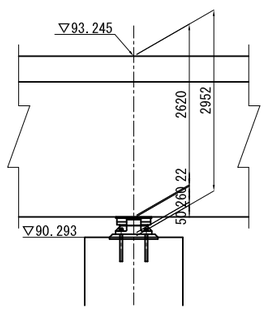
3 - 3



4 - 4



DETAILS SCALE 1:50



MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE : STRUCTURAL DRAWING OF P1,P2 BRIDGE PIER	SCALE (A1 size) AS SHOWN	DRAWING NO. : TE-07