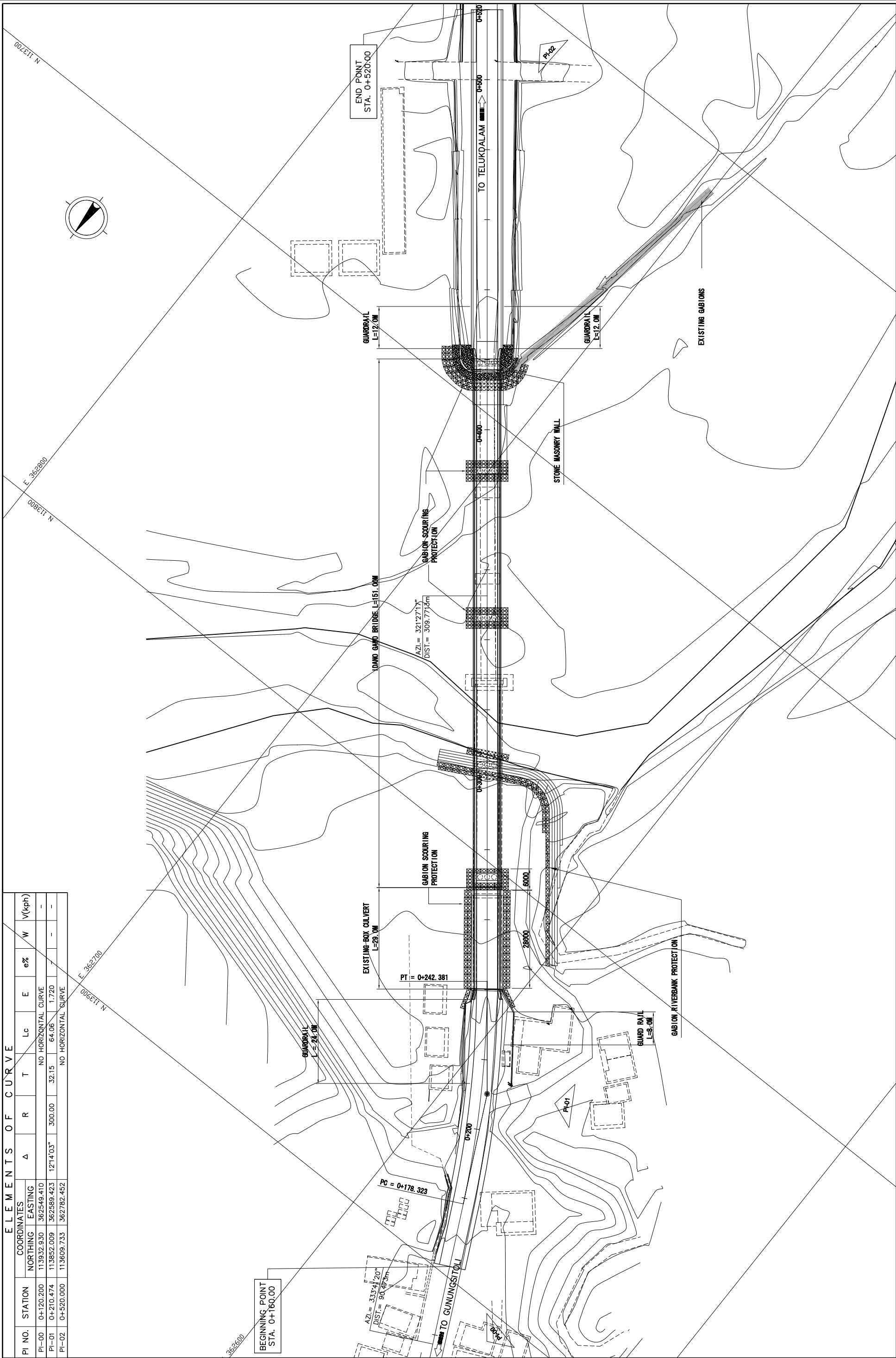
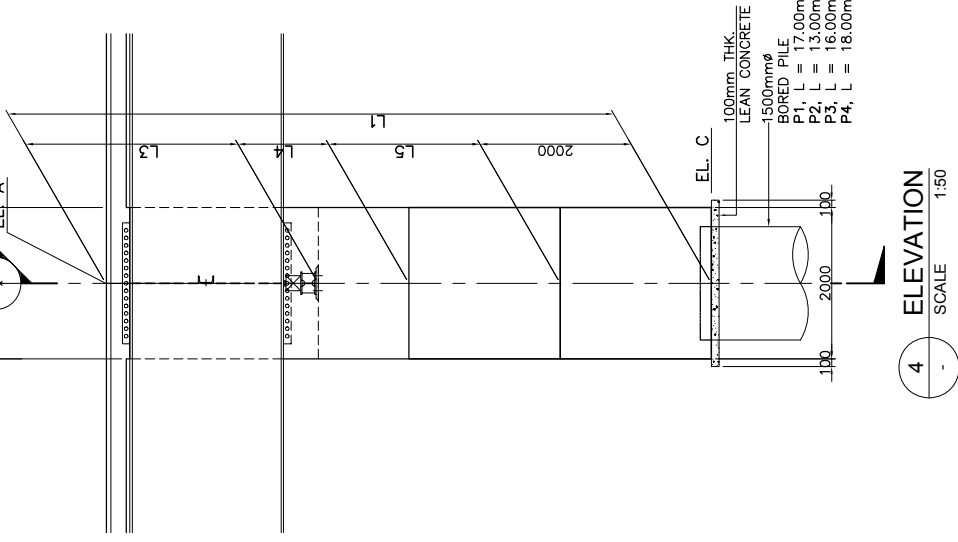
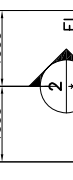
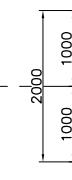
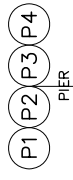
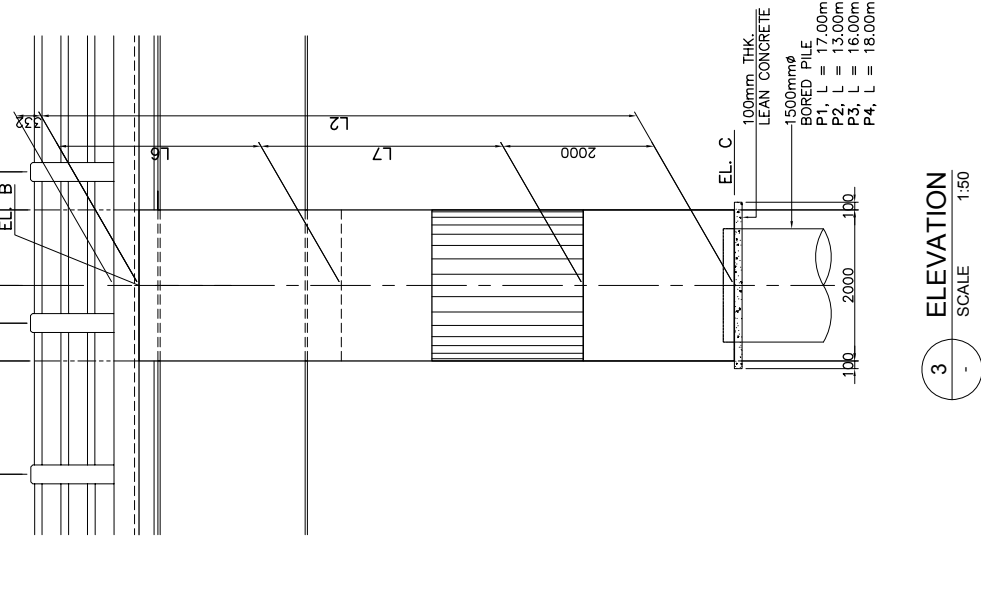
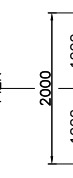
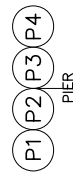
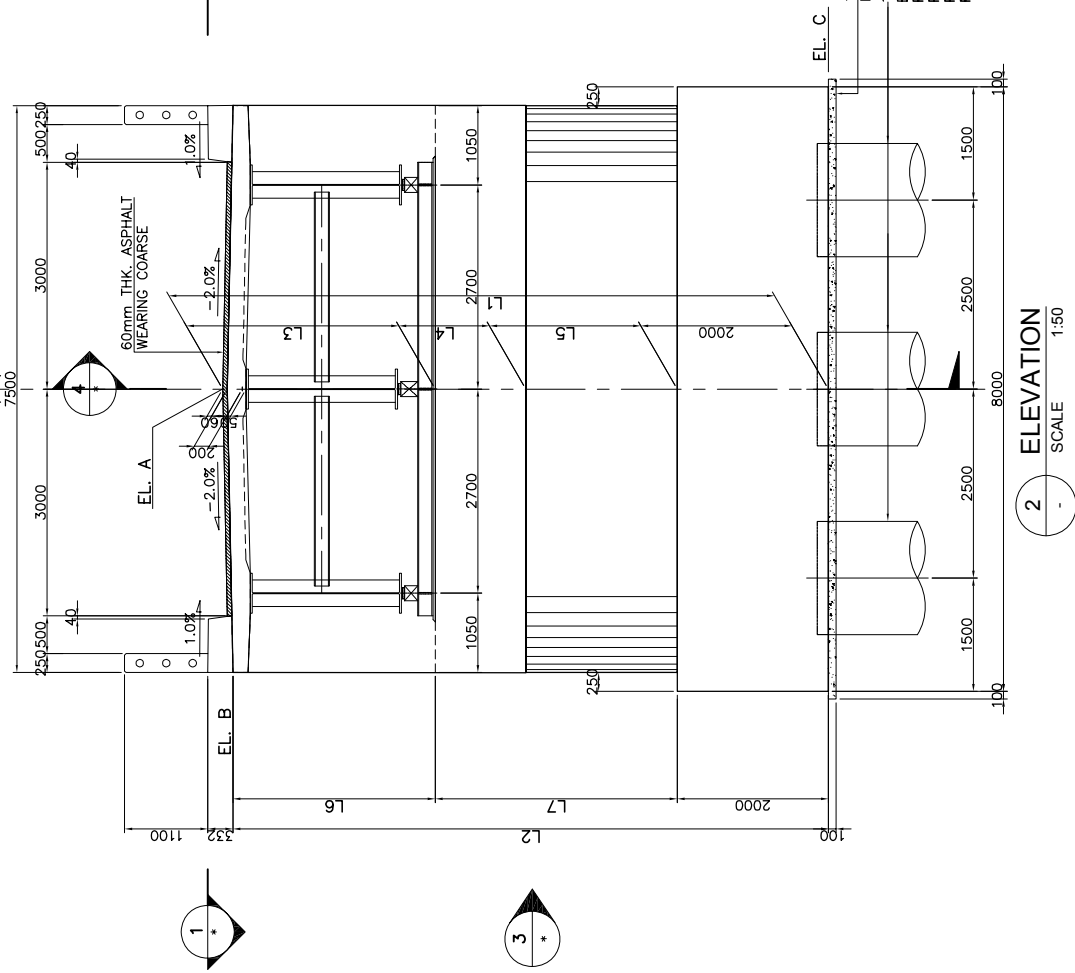
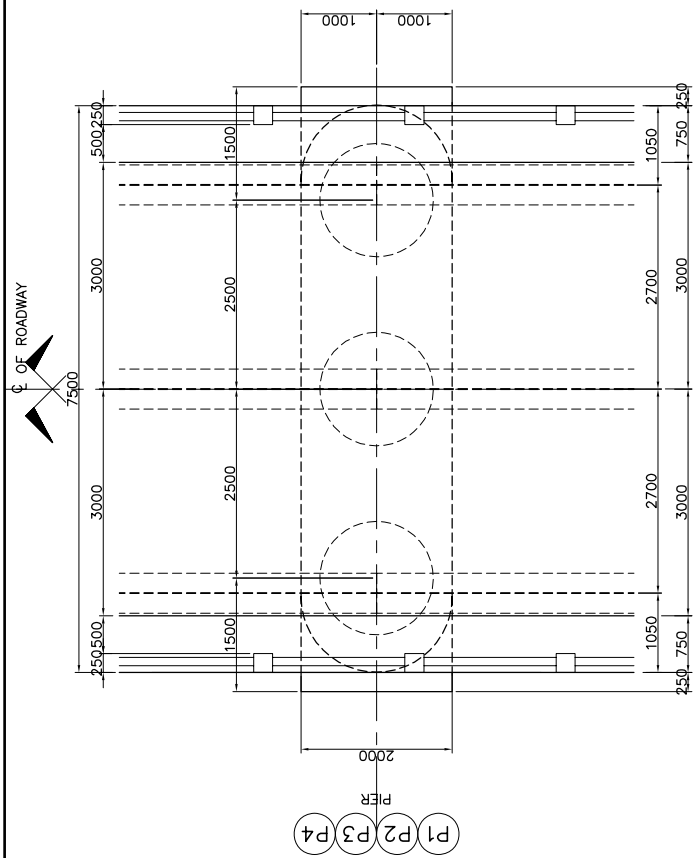
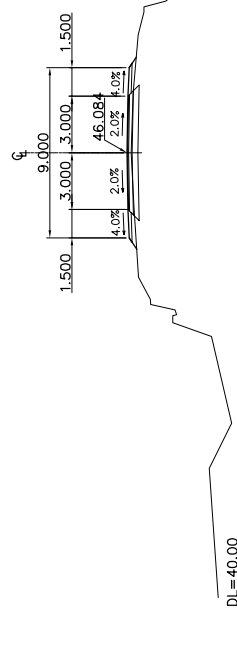
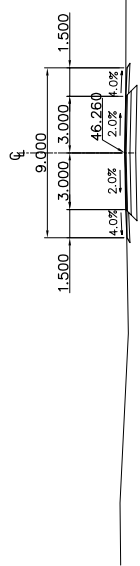
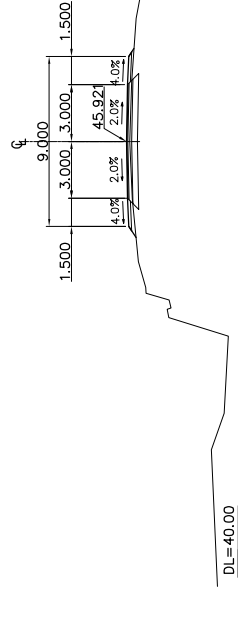
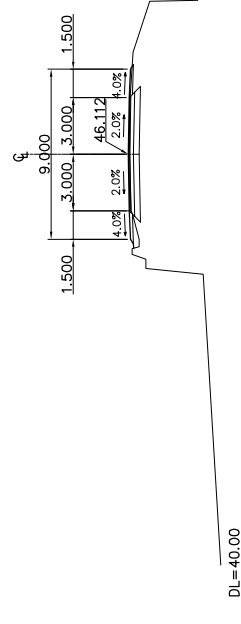
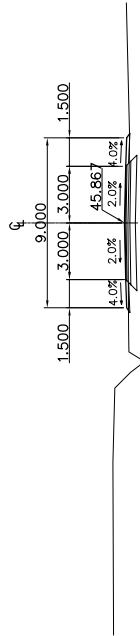
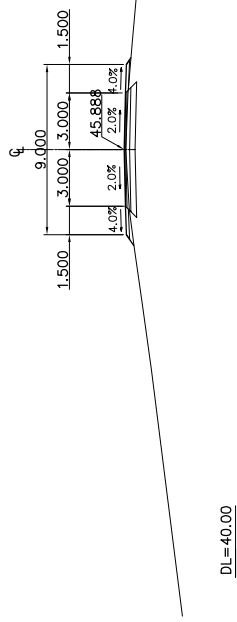
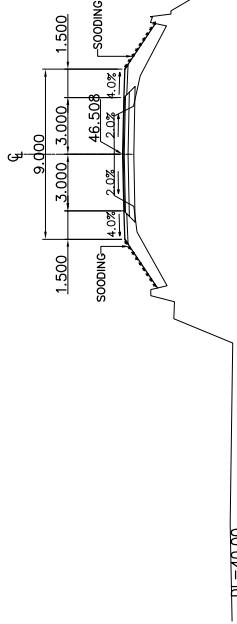
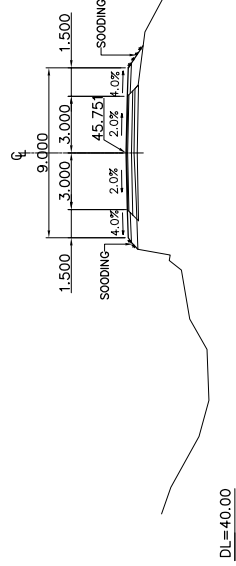
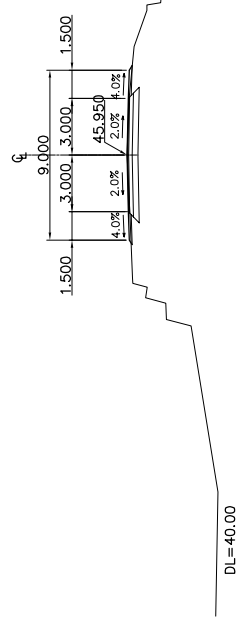
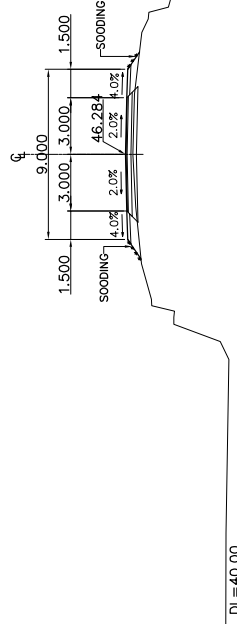
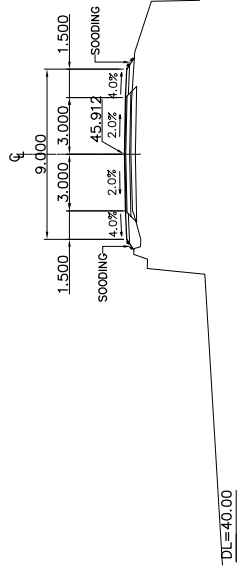


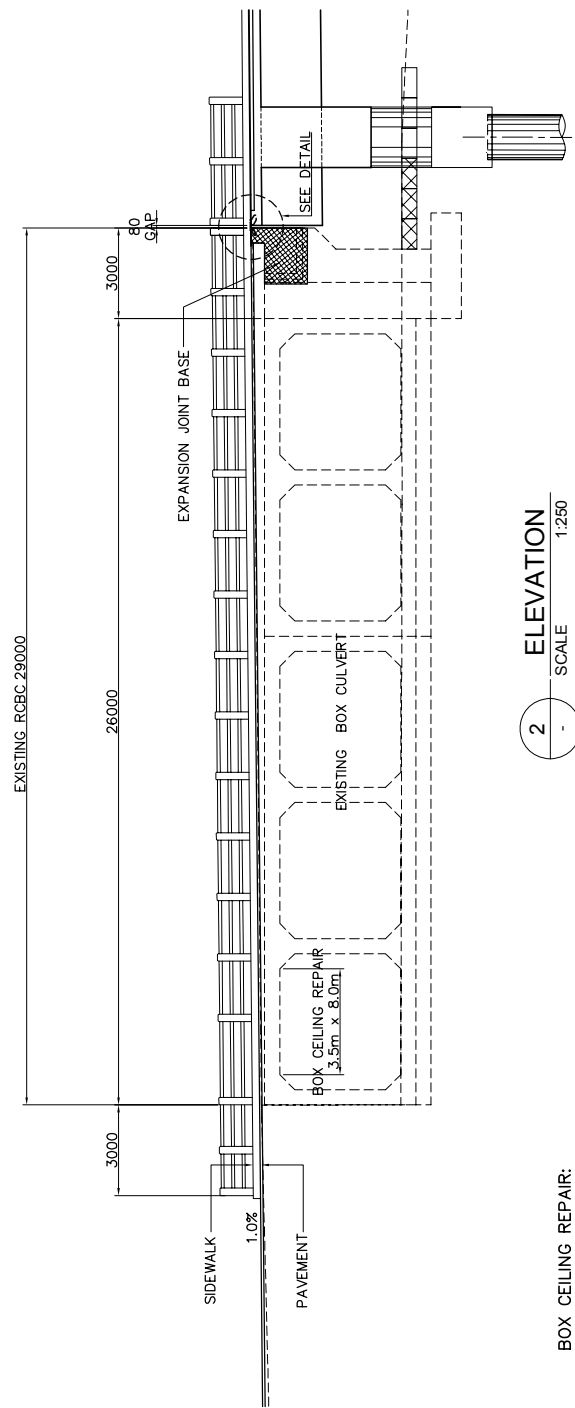
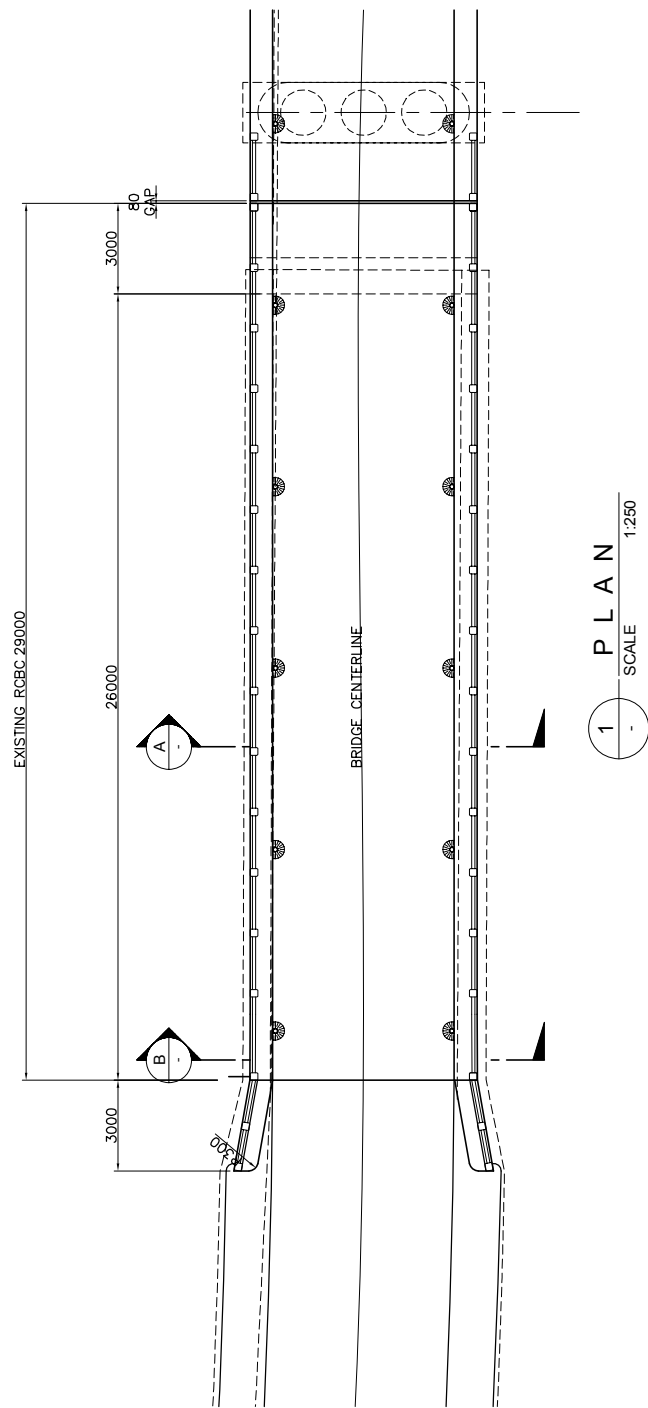
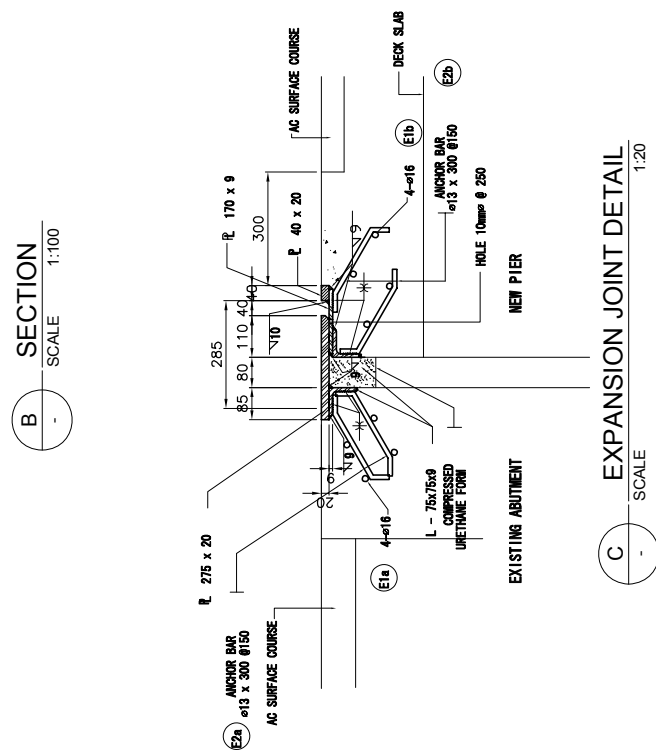
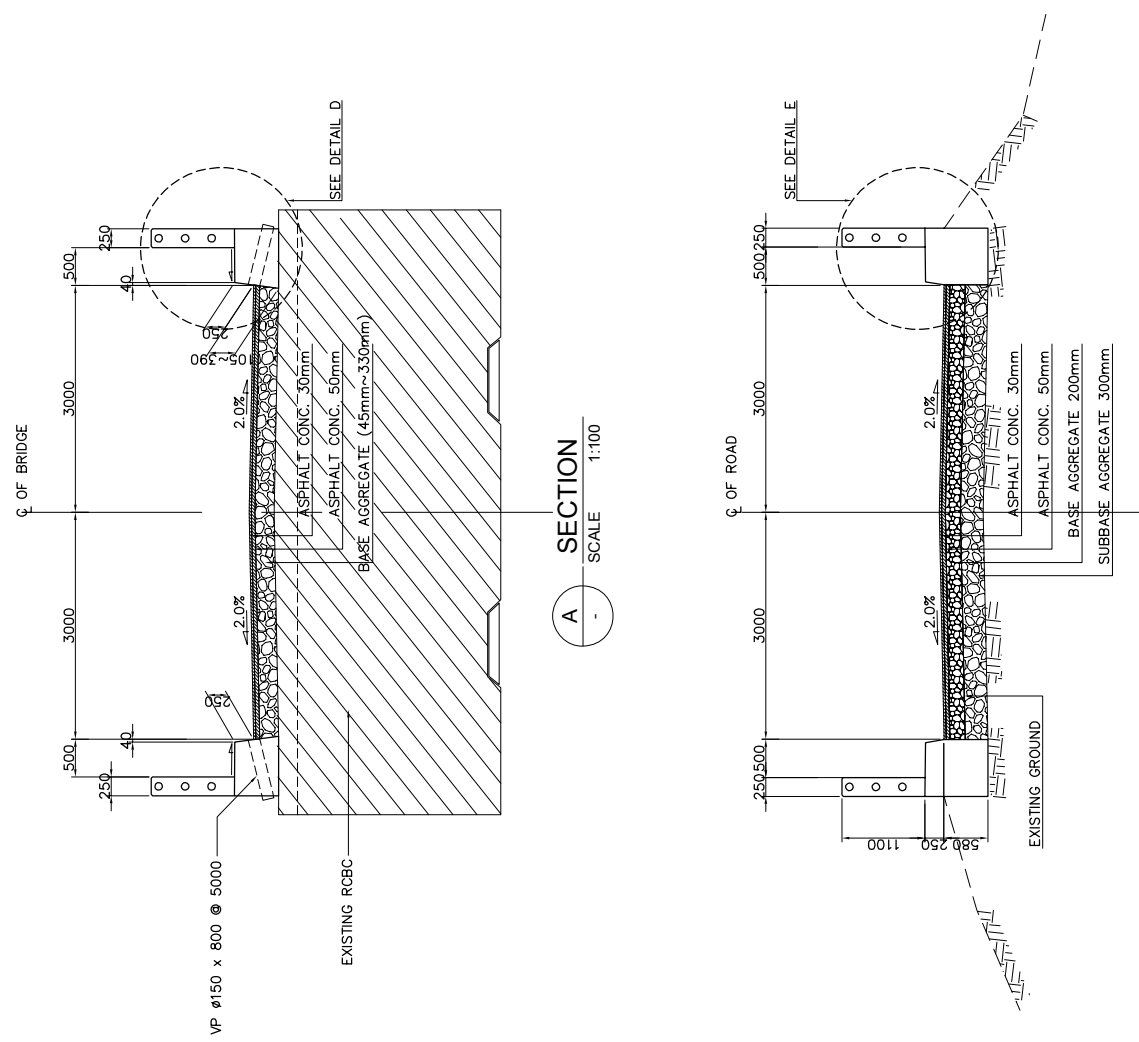
ELEMENTS OF CURVE											
PI NO.	STATION	COORDINATES		Δ	R	T	Lc	E	e%	W	V(kph)
		NORTHING	EASTING								
PI-00	0+120.200	113932.930	362549.410					NO HORIZONTAL CURVE			—
PI-01	0+210.474	113852.009	362589.423	121°4'03"	300.00	32.15	64.06	1.720	—	—	—
PI-02	0+520.000	113609.733	362782.452					NO HORIZONTAL CURVE			—



			THE BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF BRIDGES IN NIAS ISLAND IN THE REPUBLIC OF INDONESIA	TITLE : IDANO GAWO BRIDGE (GENERAL SITE PLAN)	SCALE : 1:1000	DRAWING No: 4-1	Rev.



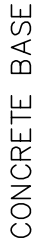
2-62



BOX CEILING REPAIR:
REBARS AT THE CEILING OF THE FIRST BOX CELL ARE EXPOSED DUE TO LACK OF CONCRETE COVER. THE CONCRETE AROUND THE EXPOSED BARS SHALL BE CHIPPED OFF AND EXPOSED THE CORRODED PORTION OF BARS. THEN, EPOXY RESIN SHALL BE PASTED TO PREVENT FURTHER CORROSION ON THE BARS.

 DIRECTORATE GENERAL OF HIGHWAY MINISTRY OF PUBLIC WORKS THE REPUBLIC OF INDONESIA	 JAPAN INTERNATIONAL COOPERATION AGENCY	 KATAHIRA & ENGINEERS INTERNATIONAL	THE BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF BRIDGES IN NIAS ISLAND IN THE REPUBLIC OF INDONESIA	TITLE: IDANO GAWO BRIDGE EXISTING RCBC REPAIR WORKS AND DETAILS (1/2)	SCALE: AS SHOWN	DRAWING No: 4-8	Rev.

1. 10mm PJF @ 10M. SHALL BE INSTALLED IN THE SIDEWALK.
2. S2 BARS SHALL BE CUT AT THE PJF.



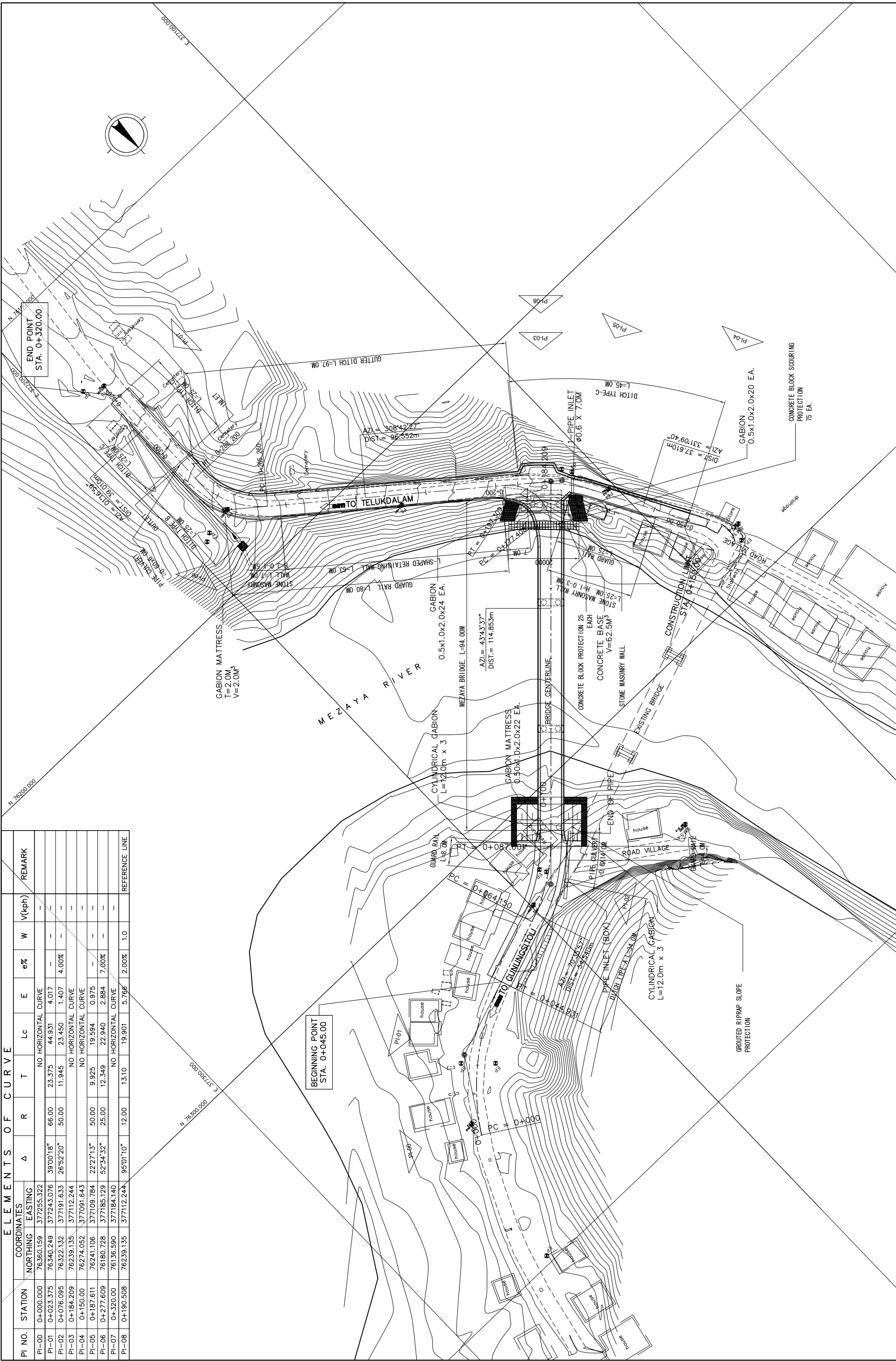
SCALE

TOTAL = 1135.05Kgs

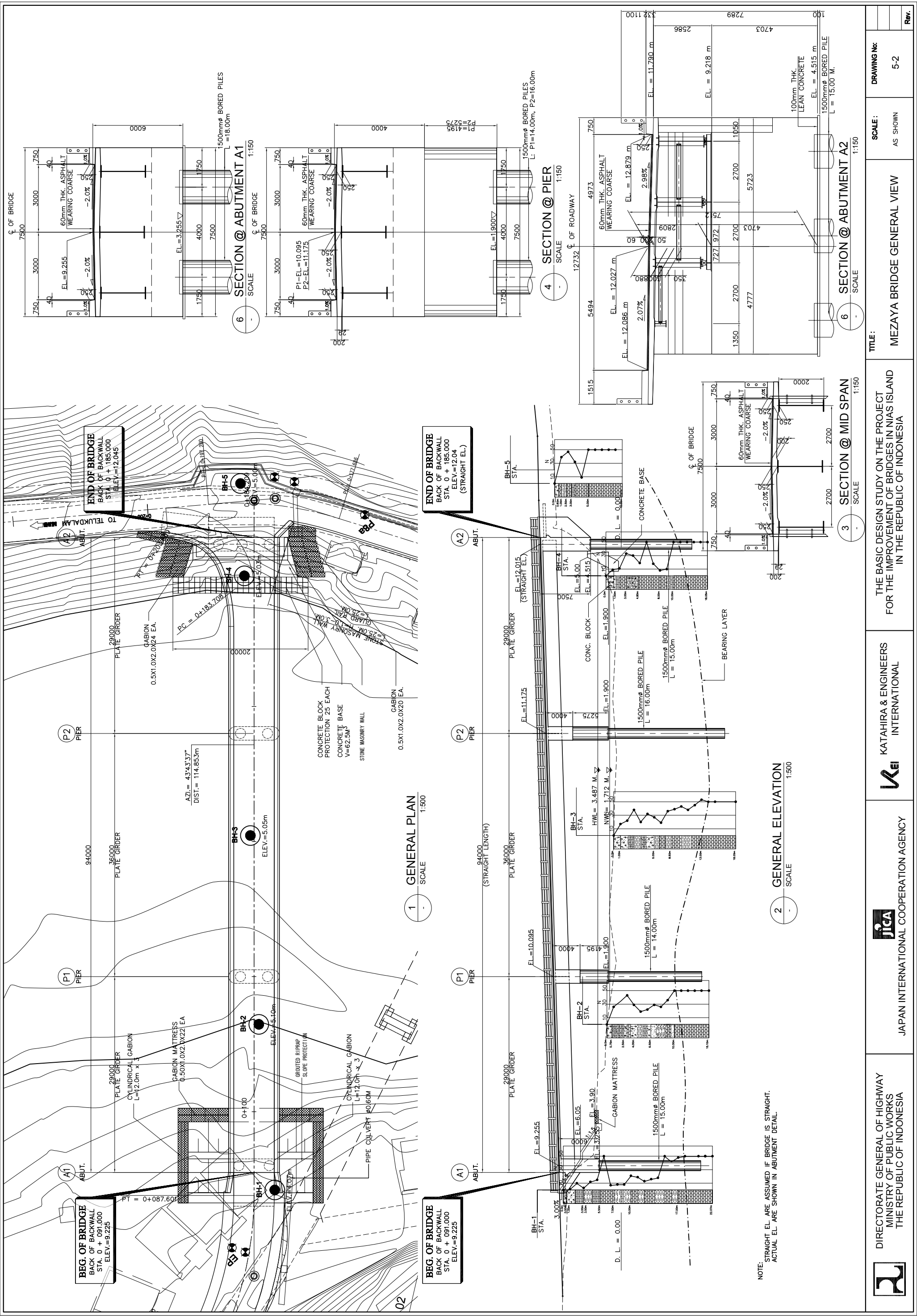
TOTAL = 1543.82Kgs

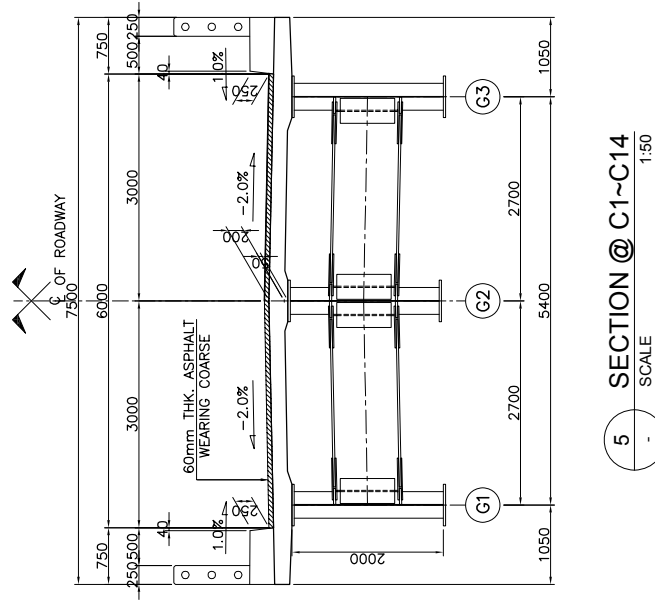
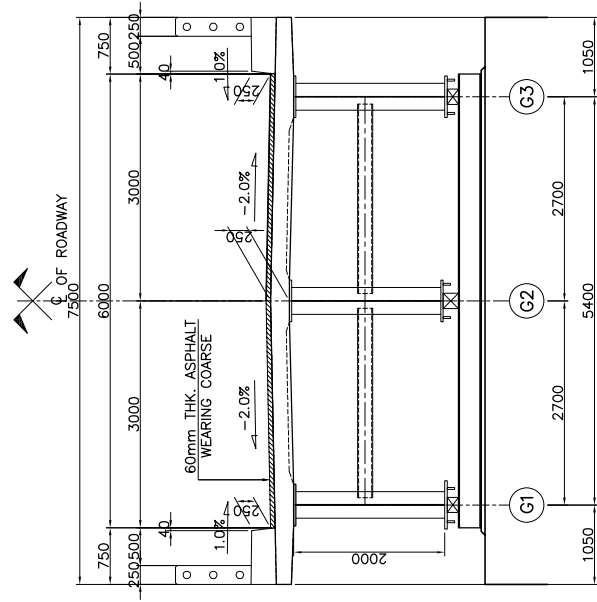
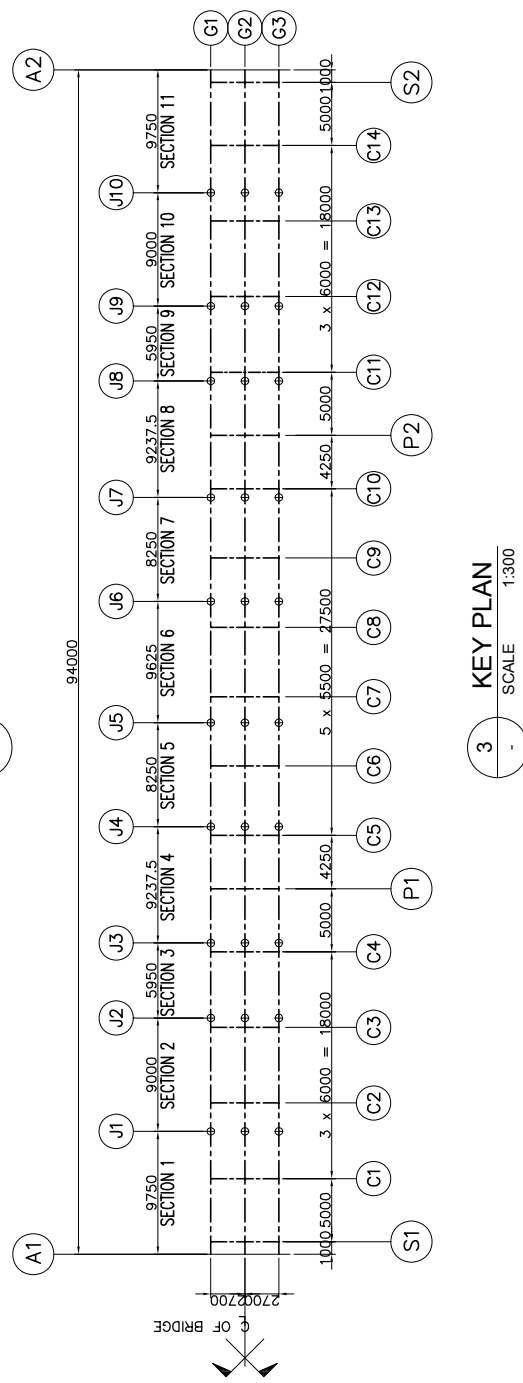
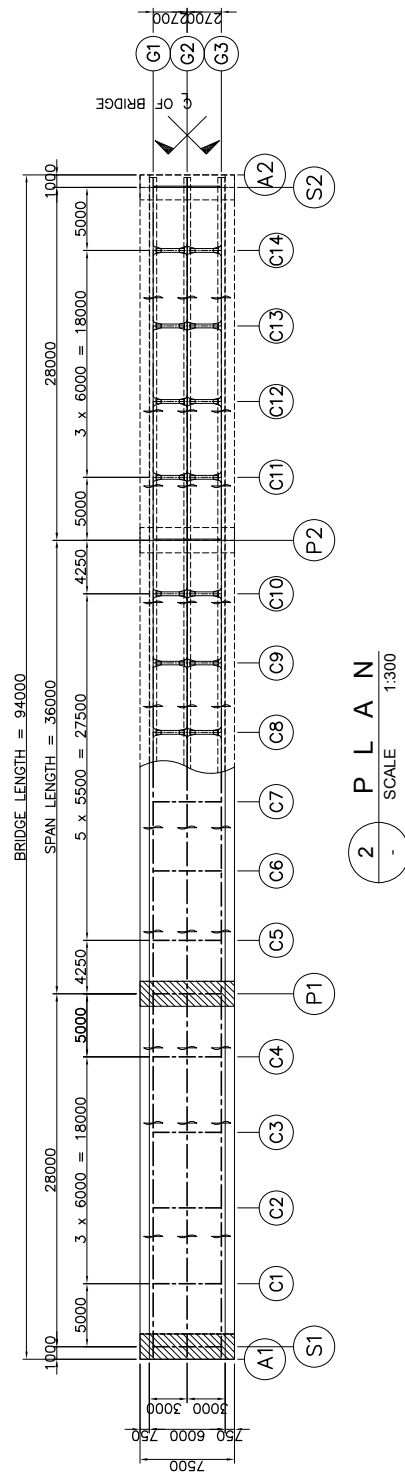
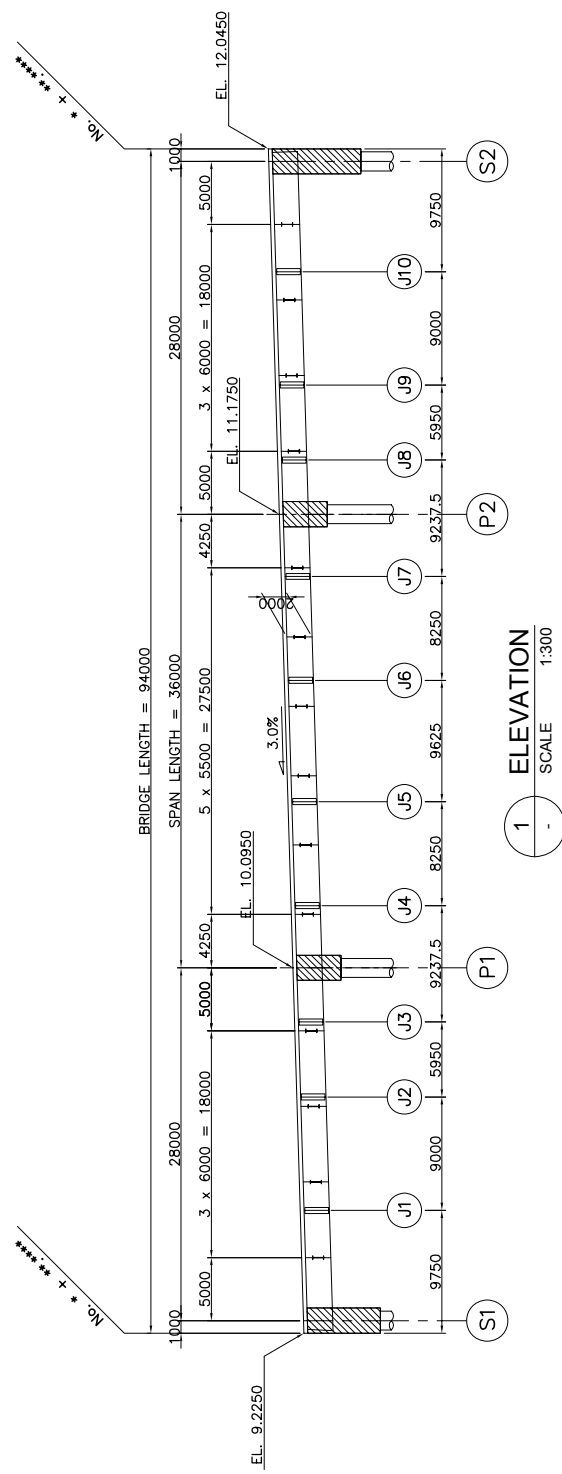
TOTAL = 134.79Kgs

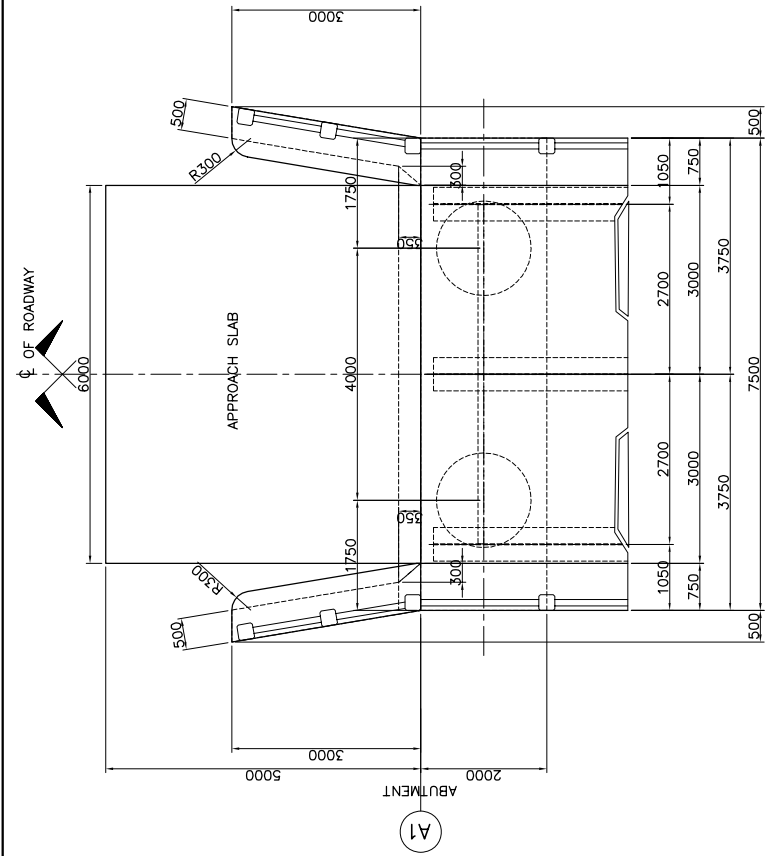
ELEMENTS OF CURVE												
PI NO.	STATION	COORDINATES		Δ	R	T	Lc	E	e%	W	V(kph)	REMARK
		NORTHING	EASTING									
PI-00	0+000.000	76360.159	377255.322				NO HORIZONTAL CURVE				—	
PI-01	0+023.375	76340.249	377243.076	39°00'18"	66.00	23.375	44.931	4.017	—	—	—	
PI-02	0+076.095	76322.132	377191.633	26°52'20"	50.00	11.945	23.450	1.407	4.00%	—	—	
PI-03	0+184.209	76239.135	377112.244				NO HORIZONTAL CURVE				—	
PI-04	0+150.00	76274.052	377091.643				NO HORIZONTAL CURVE				—	
PI-05	0+187.611	76241.106	377109.784	22°27'13"	50.00	9.925	19.594	0.975	—	—	—	
PI-06	0+277.609	76180.728	377185.129	52°34'32"	25.00	12.349	22.940	2.884	7.00%	—	—	
PI-07	0+320.00	76136.590	377184.140				NO HORIZONTAL CURVE				—	
PI-08	0+190.508	76239.135	377112.244	95°01'10"	12.00	13.10	19.901	5.766	2.00%	1.0		REFERENCE LINE



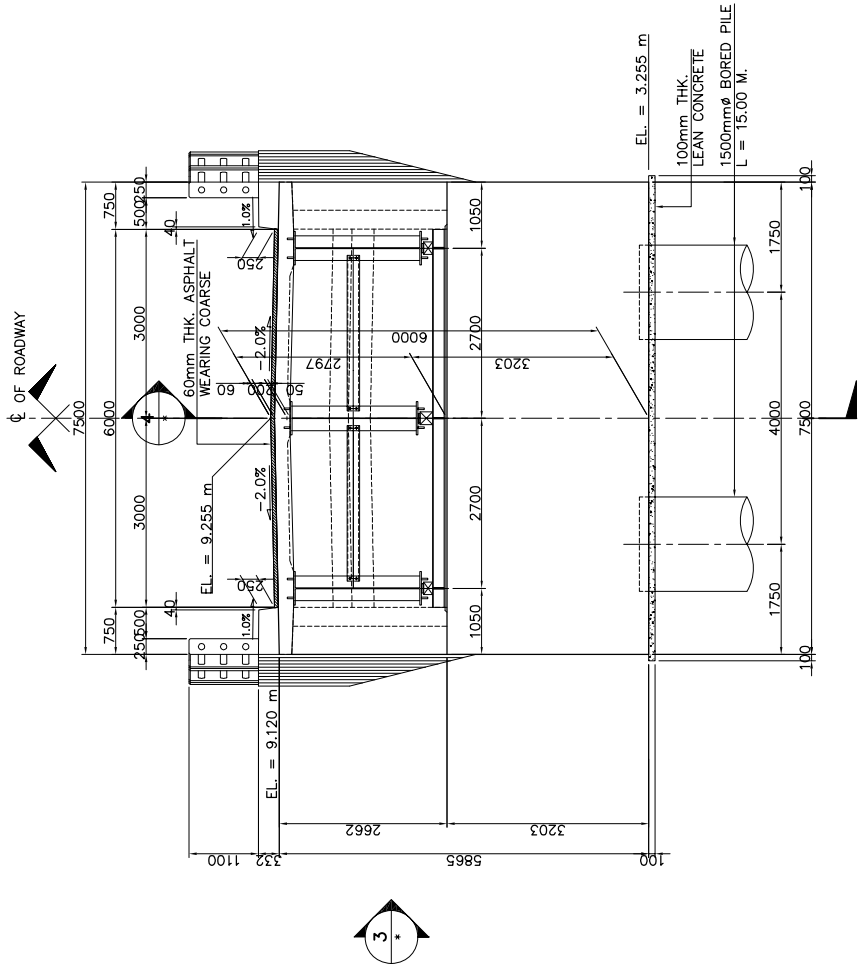
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									1:1000	5-1	



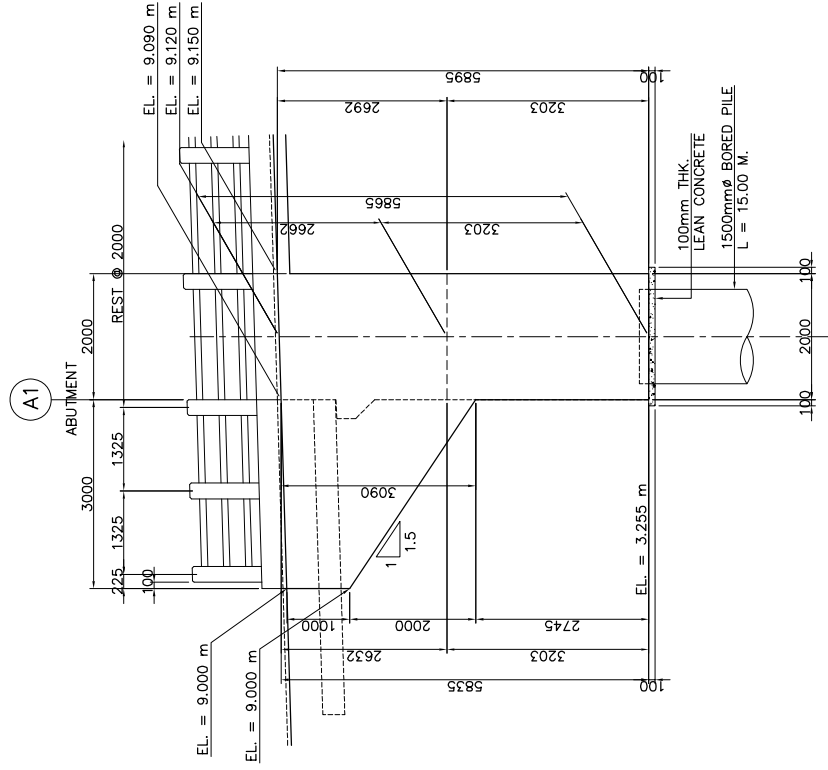




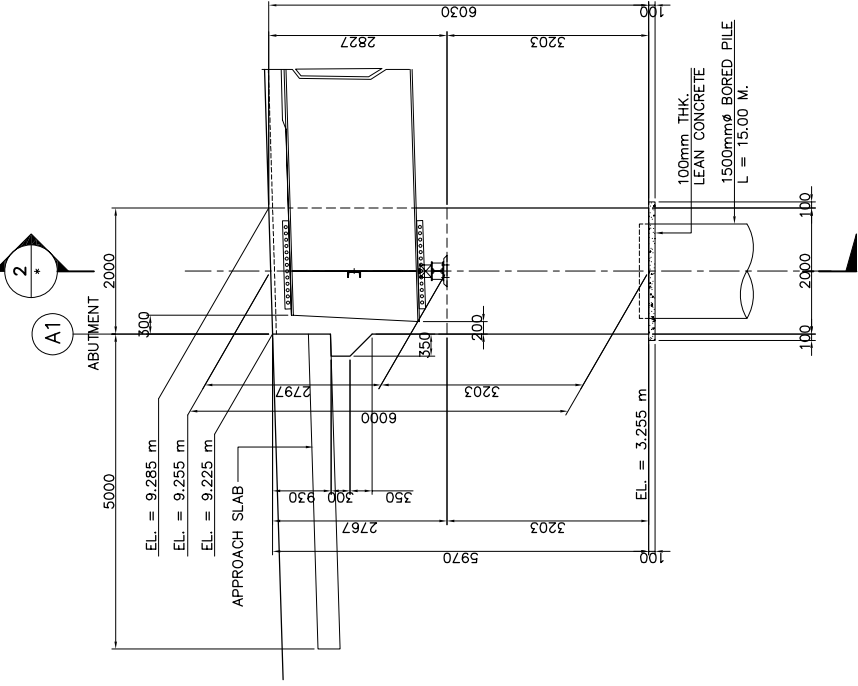
2 PLAN
SCALE 1:60



1 ELEVATION
SCALE 1:60

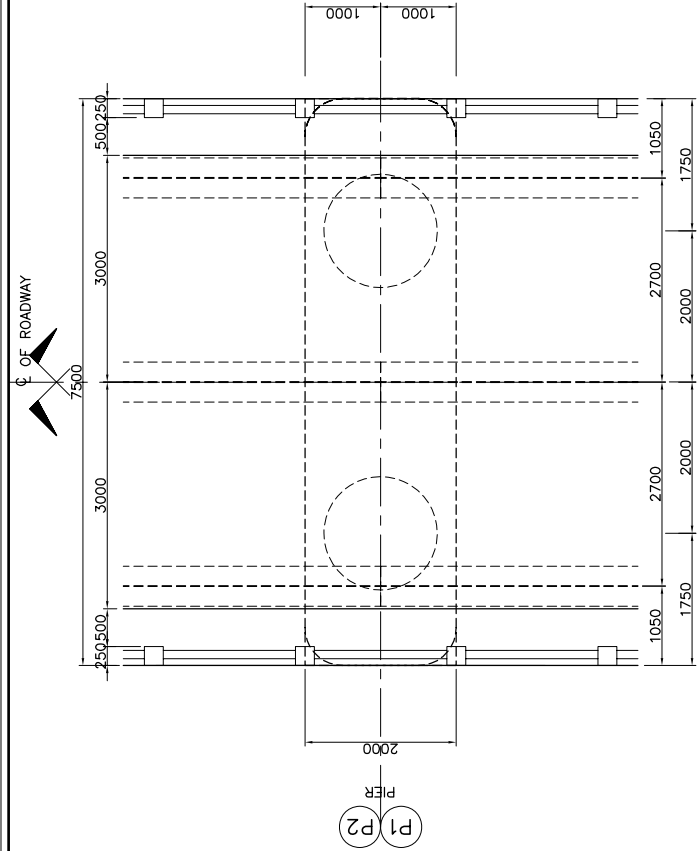


3 ELEVATION
SCALE 1:60

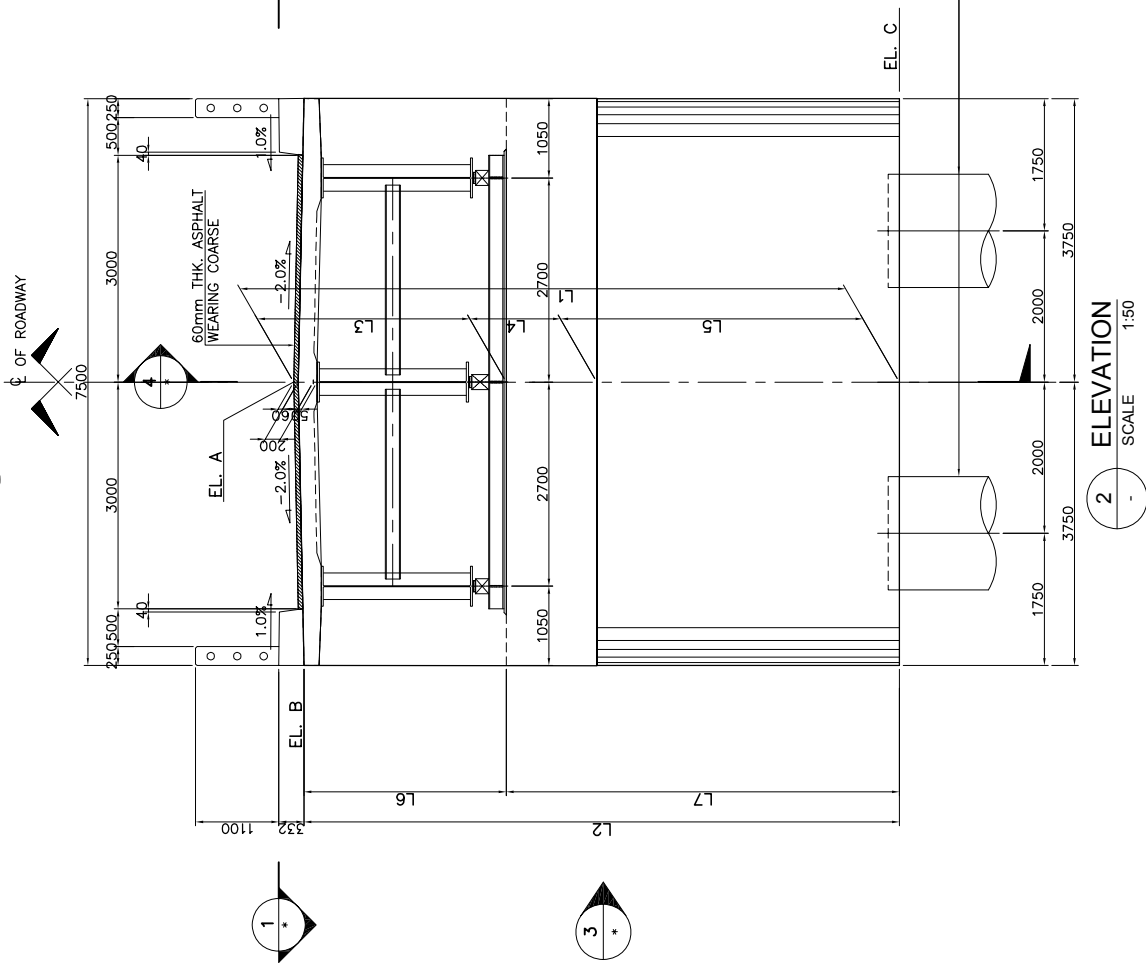


4 ELEVATION
SCALE 1:60

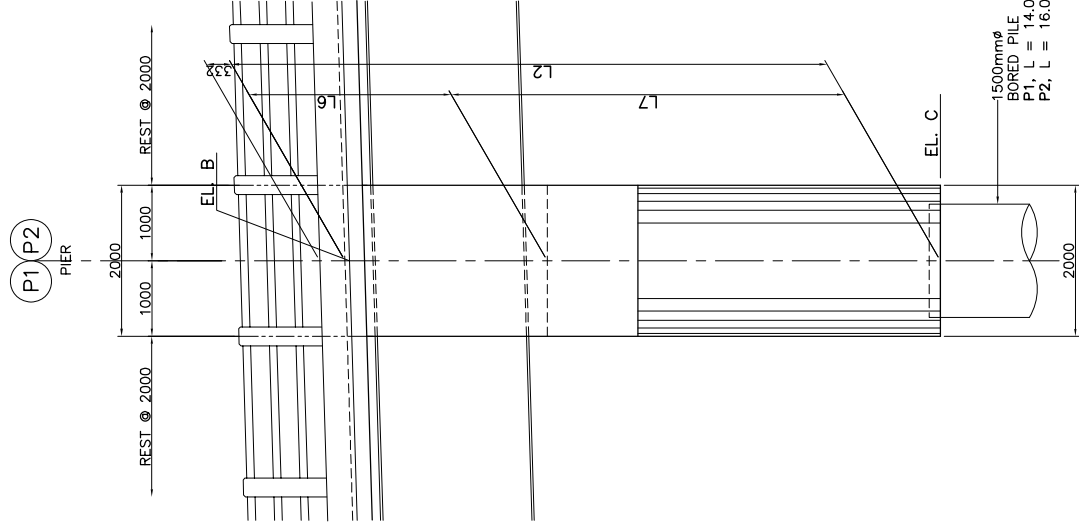
	DIRECTORATE GENERAL OF HIGHWAY MINISTRY OF PUBLIC WORKS THE REPUBLIC OF INDONESIA		JAPAN INTERNATIONAL COOPERATION AGENCY		KATAHIRA & ENGINEERS INTERNATIONAL	THE BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF BRIDGES IN NIAS ISLAND IN THE REPUBLIC OF INDONESIA		TITLE : MEZAYA BRIDGE SUBSTRUCTURE STRUCTURAL DIMENSION (ABUTMENT A1)	SCALE : AS SHOWN	DRAWING No: 5-4	Rev.



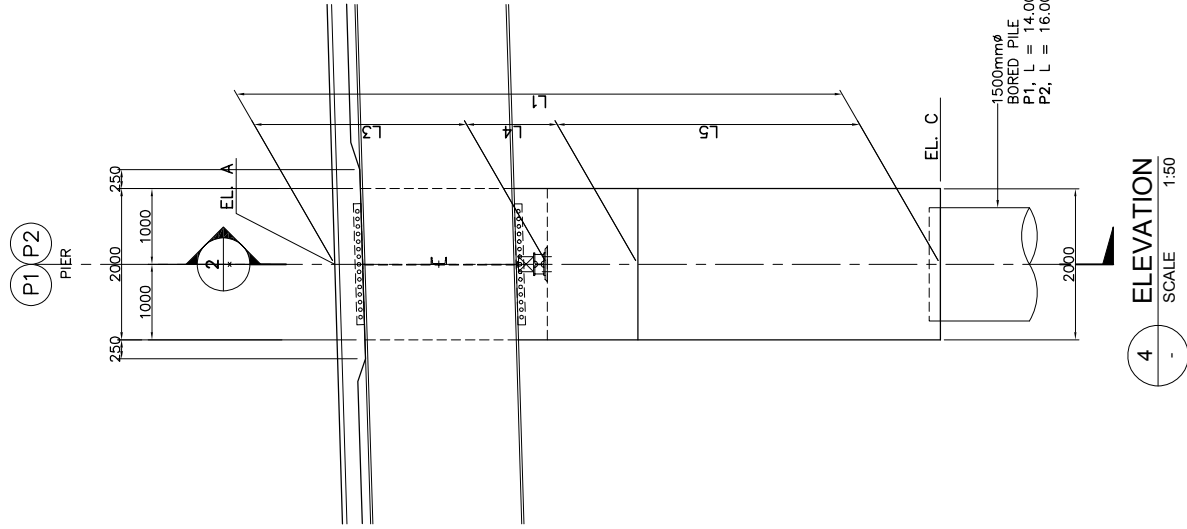
1 PLAN
SCALE 1:50



2 ELEVATION
SCALE 1:50



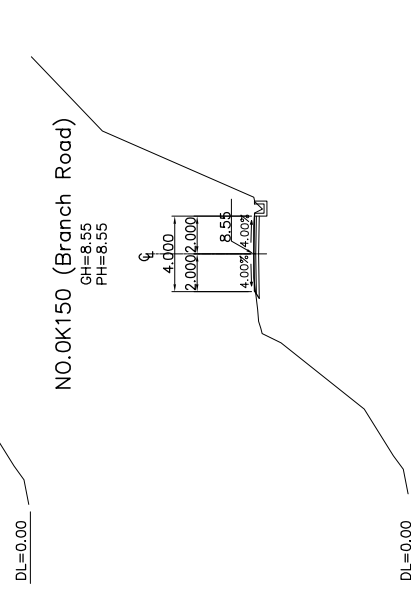
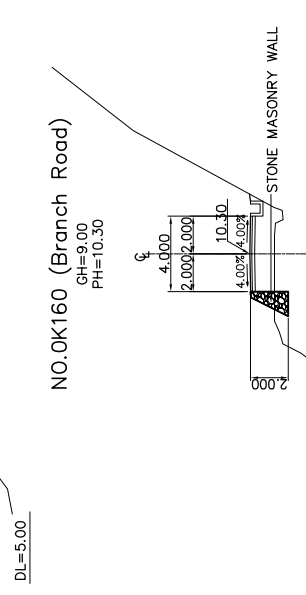
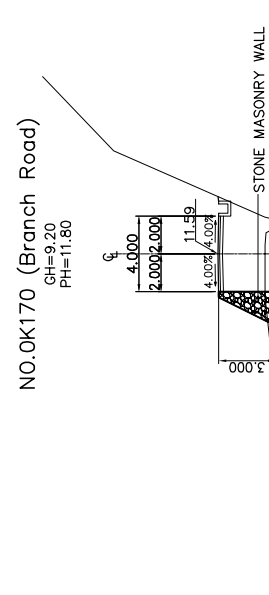
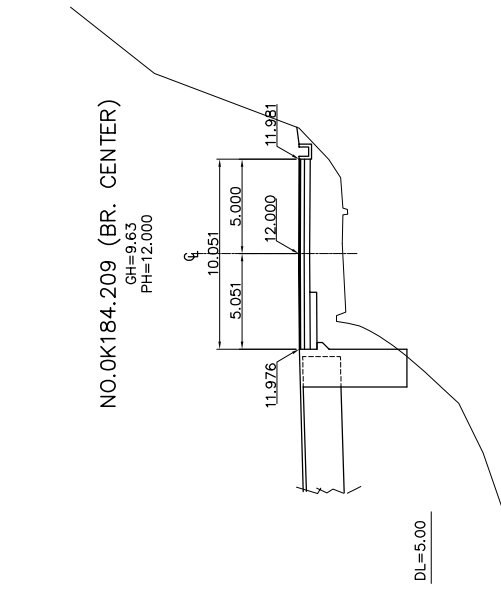
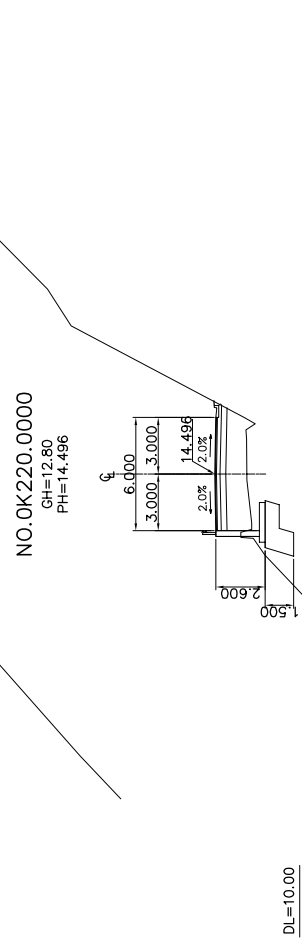
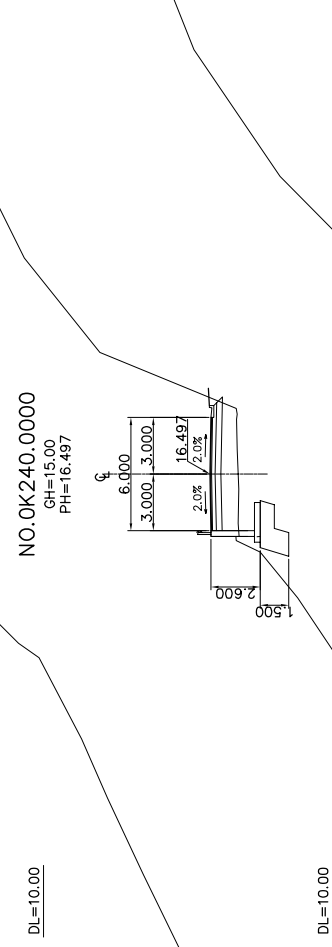
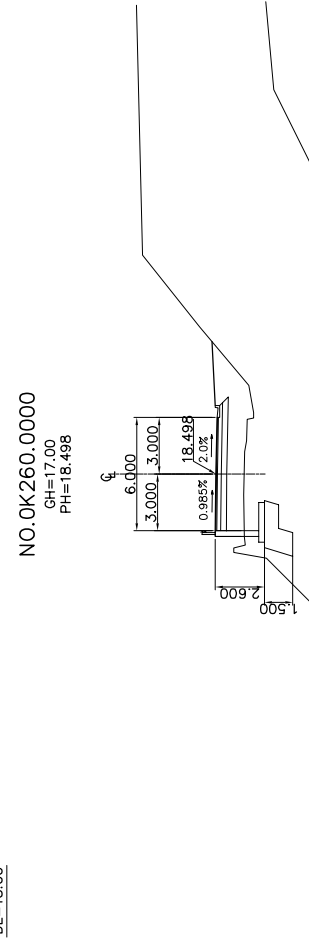
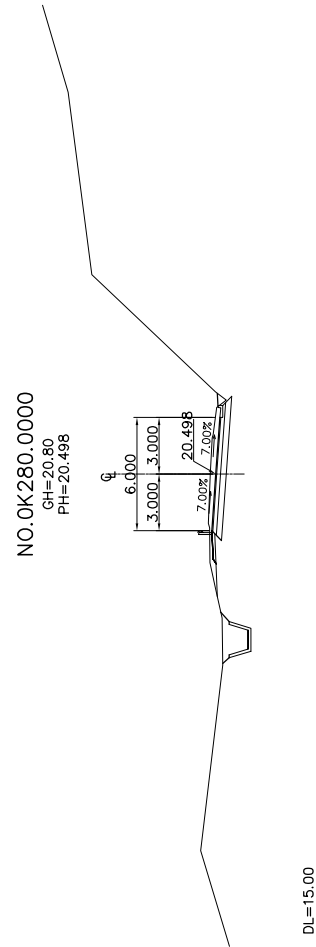
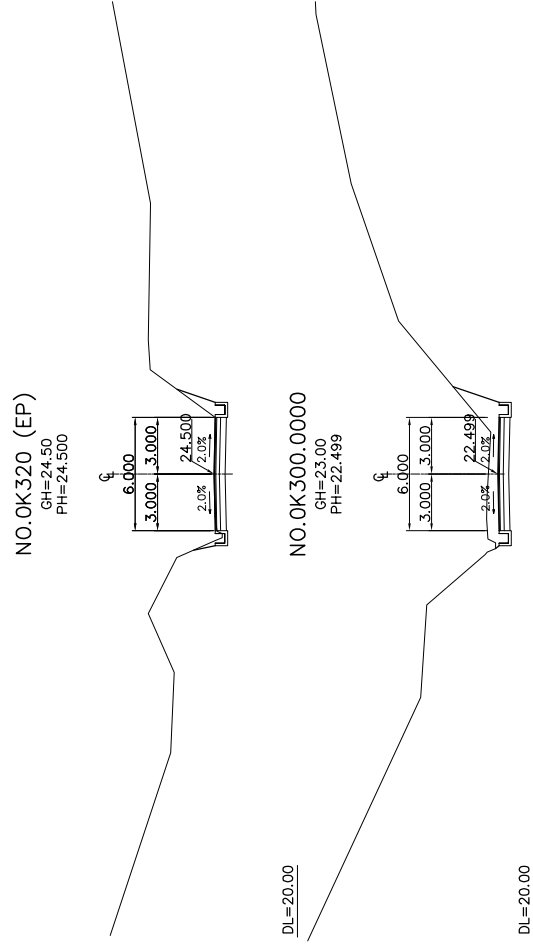
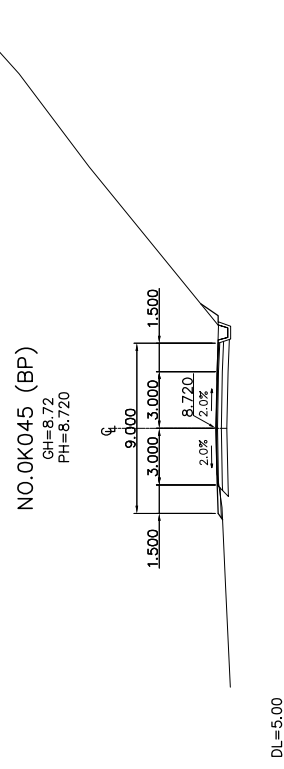
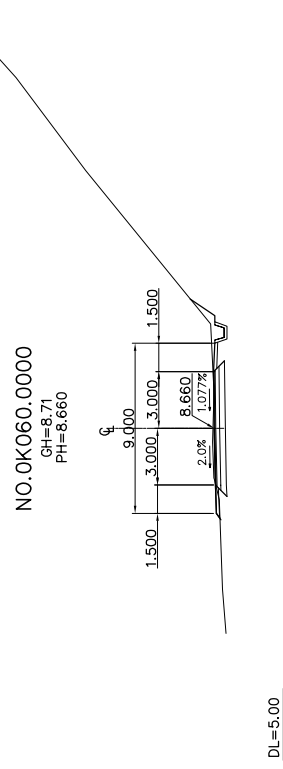
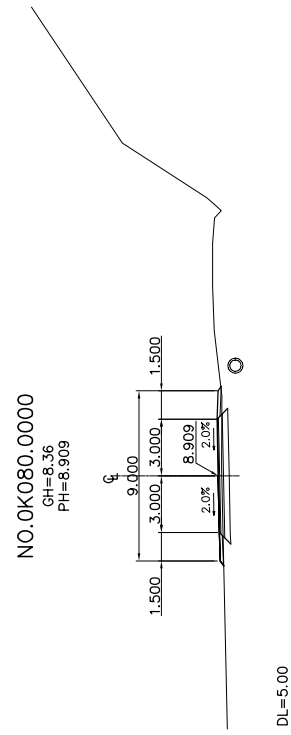
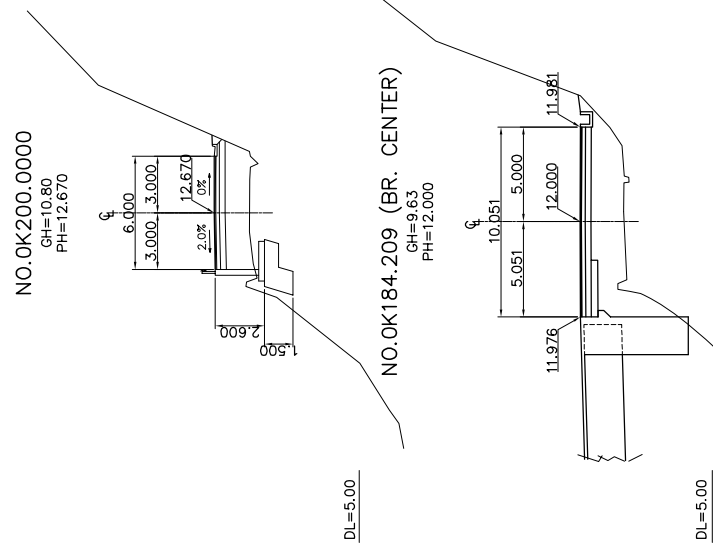
3 ELEVATION
SCALE 1:50



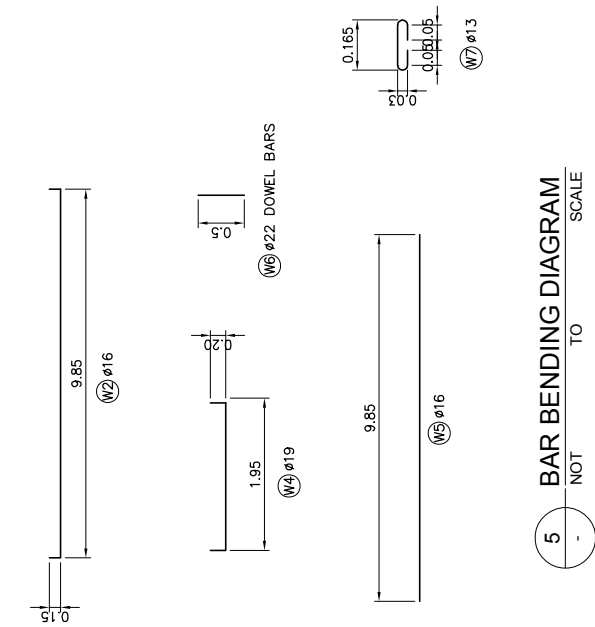
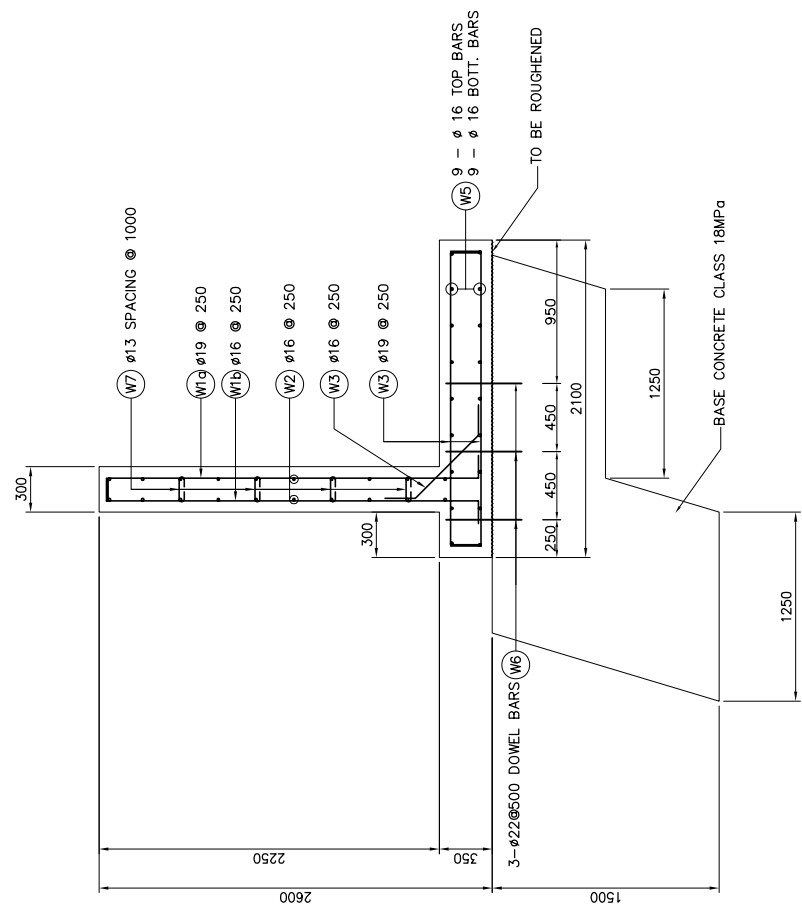
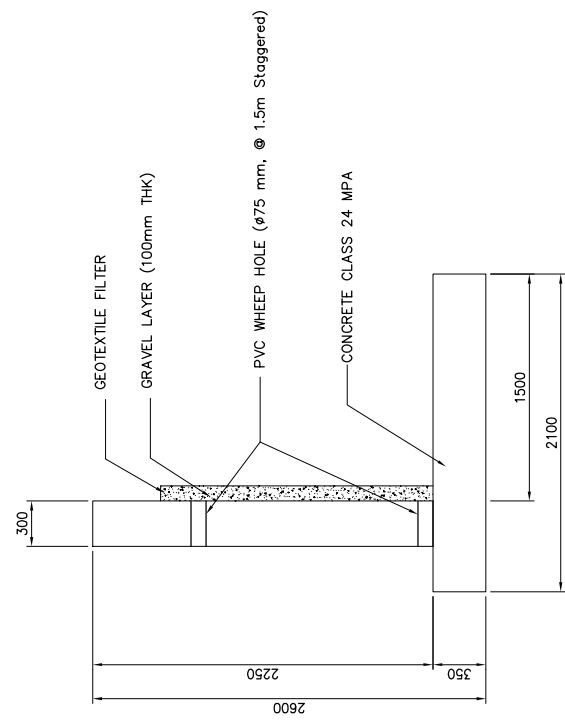
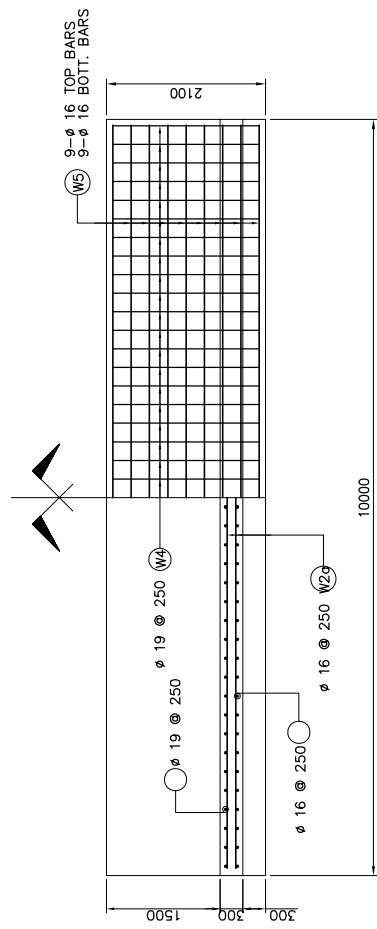
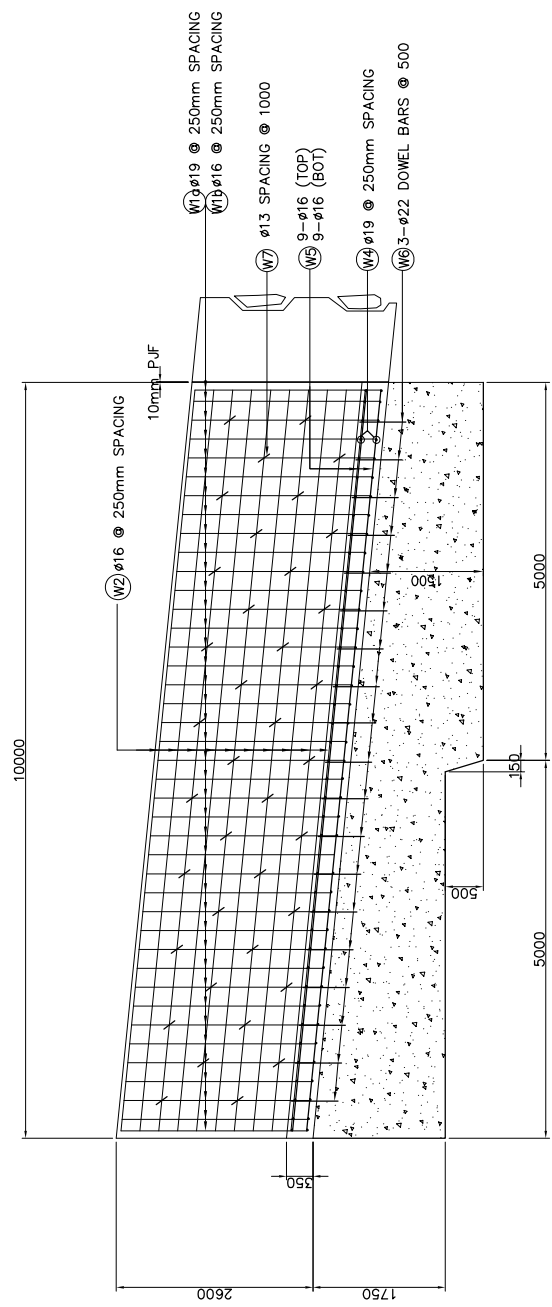
4 ELEVATION
SCALE 1:50

TABLE OF DIMENSIONS										
STRUCTURE	EL. A	EL. B	EL. C	L1	L2	L3	L4	L5	L6	L7
PIER P1	10.095	9.960	1.900	8195	8060	2808	1192	4195	2673	5387
PIER P2	11.175	11.040	1.900	9275	9140	2805	1195	5275	2670	6467

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 DIRECTORATE GENERAL OF HIGHWAY MINISTRY OF PUBLIC WORKS THE REPUBLIC OF INDONESIA	 JAPAN INTERNATIONAL COOPERATION AGENCY	 KATAHIRA & ENGINEERS INTERNATIONAL	THE BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF BRIDGES IN NIAS ISLAND IN THE REPUBLIC OF INDONESIA	TITLE: MEZAYA BRIDGE APPROACH ROAD CROSS SECTIONS	SCALE: AS SHOWN	DRAWING No: 5-8	Rev.



SCHEDULE OF REINFORCEMENT								
STRUCTURE COMPONENT	BAR MARK	BAR SIZE	QTY	LENGTH OF BAR	UNIT WEIGHT (kg/m)	WEIGHT PER BAR (kg)	TOTAL WEIGHT (kg)	REMARKS
RETAINING WALL	W1a	ø19	41	2.750	2.226	6.12	250.92	
	W1b	ø16	41	2.750	1.578	4.34	177.94	
	W2	ø16	10	10.150	1.578	16.02	160.20	
	W3	ø16	30	1.000	1.578	1.58	47.40	
	W4	ø19	82	2.350	2.226	5.23	428.86	
	W5	ø16	18	9.850	1.578	15.54	279.72	
	W6	ø22	57	0.500	2.984	1.49	84.93	
	W7	ø13	38	0.325	1.042	0.34	12.92	

 DIRECTORATE GENERAL OF HIGHWAY MINISTRY OF PUBLIC WORKS THE REPUBLIC OF INDONESIA	 JAPAN INTERNATIONAL COOPERATION AGENCY	 KATAHIRA & ENGINEERS INTERNATIONAL	THE BASIC DESIGN STUDY ON THE PROJECT FOR THE IMPROVEMENT OF BRIDGES IN NIAS ISLAND IN THE REPUBLIC OF INDONESIA	TITLE : RETAINING WALL PLAN, ELEVATION, SECTION & BAR BENDING DIAGRAM	SCALE : AS SHOWN	DRAWING No: 5-10	TOTAL = 1,442.89kgs.
							Rev.