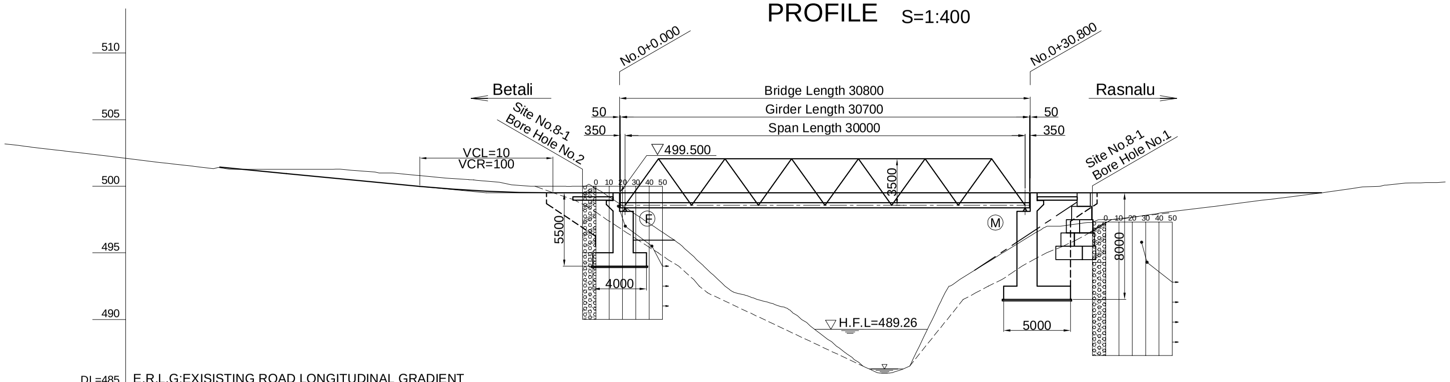
6. OUTLINE DESIGN DRAWINGS of 35 River-Crossing Structures

8-1 GENERAL VIEW OF PALATI KHOLA BRIDGE

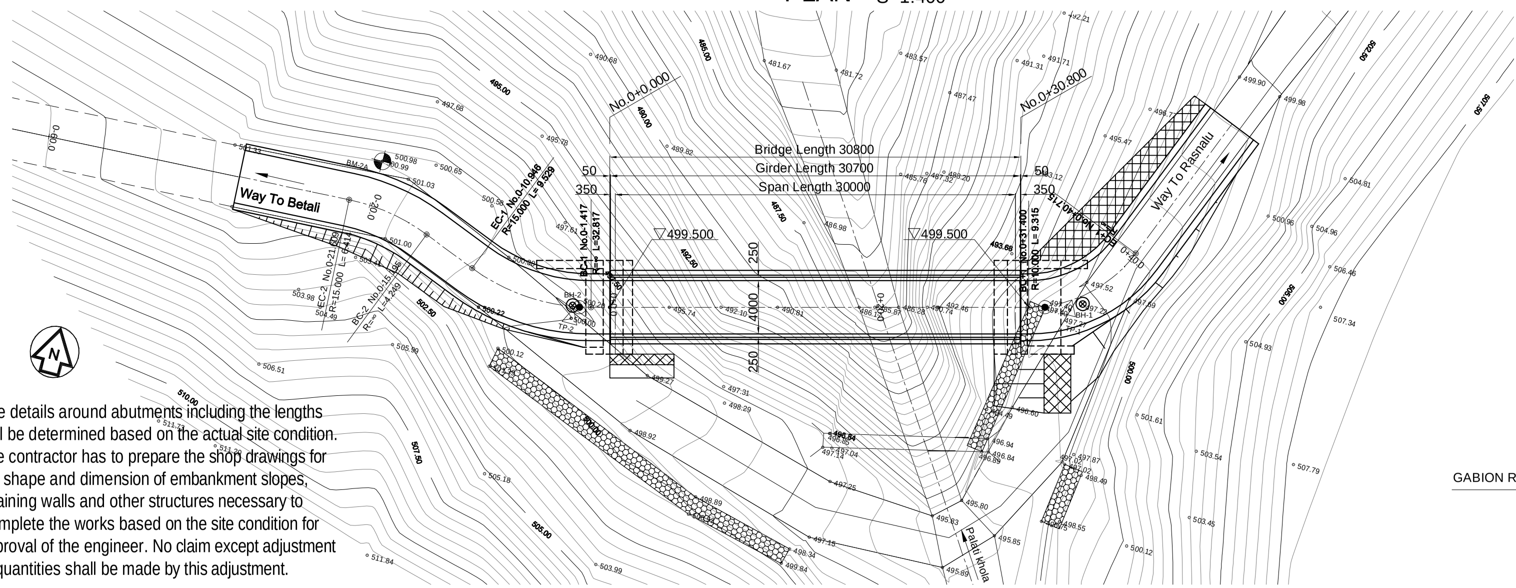
PROFILE S=1:400



E.R.L.G:EXISITING ROAD LONGITUDINAL GRADIENT

GRADE	E.R.L.G 501.500	i=10.000% L=20.000m		499.500 LEVEL L=10.00m	499.500 LEVEL L=30.80m		499.500 APPROACH ROAD LEVEL L=22.000m		499.500
PROPOSED HEIGHT		500.661	500.020	499.677 499.625	499.500 499.500	499.500	499.500 499.500	499.500	499.500
GROUND HEIGHT	501.40	501.28	500.81	500.46	499.63 498.68	485.97	496.28 496.63	498.03	499.50
STATION	0-30.000	0-21.609	0-15.195	0-10.946 0-10.000	0-1.417 A1 0+0.000	0+20.000	A2 0+30.800 0+31.400	0+40.715	0+52.800
CURVE ELEMENT	R=∞ L=8.391	R=15.000 L= 6.414	R=∞ L=4.249	R=15.000 L= 9.529	R=∞ L=32.817		R=10.000 L= 9.315	R=∞ L=12.085	
SUPER ELEVATION					2.00%				

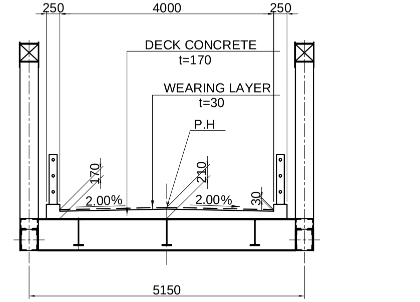
PLAN S=1:400



Note:The details around abutments including the lengths will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

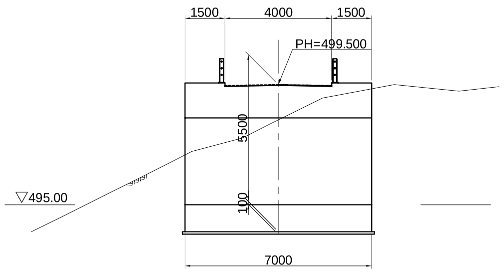
TYPICAL CROSS SECTION

SUPERSTRUCTURE S=1:100

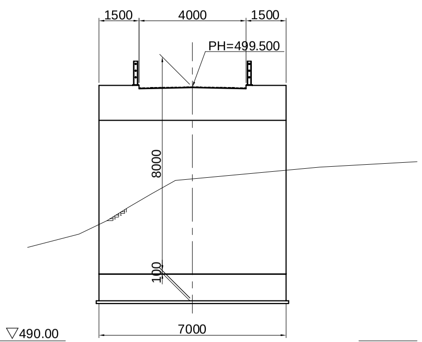


SUBSTRUCTURE S=1:200

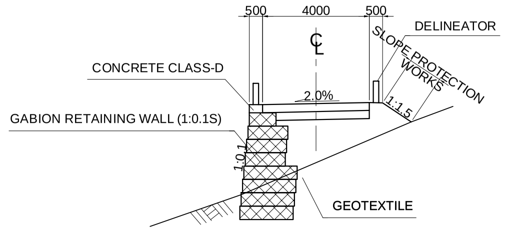
A1 ABUTMENT



A2 ABUTMENT



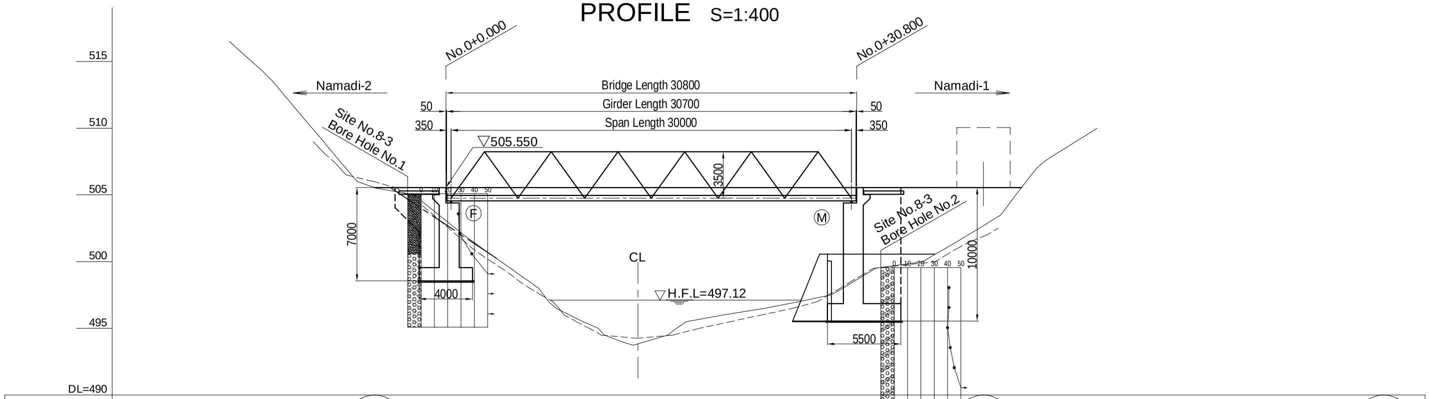
APPROACH ROAD S=1:200



OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 1	DRAWING TITLE: 8-1 GENERAL VIEW OF PALATI KHOLA BRIDGE	PROVINCE	Ramechhap	SCALE AS SHOWN	DRAWING NO: 1
			ROAD NAME	Betali-Namadi-Khimti		
			SITE NO.	8-1		
			RIVER NAME	PALATI KHOLA		

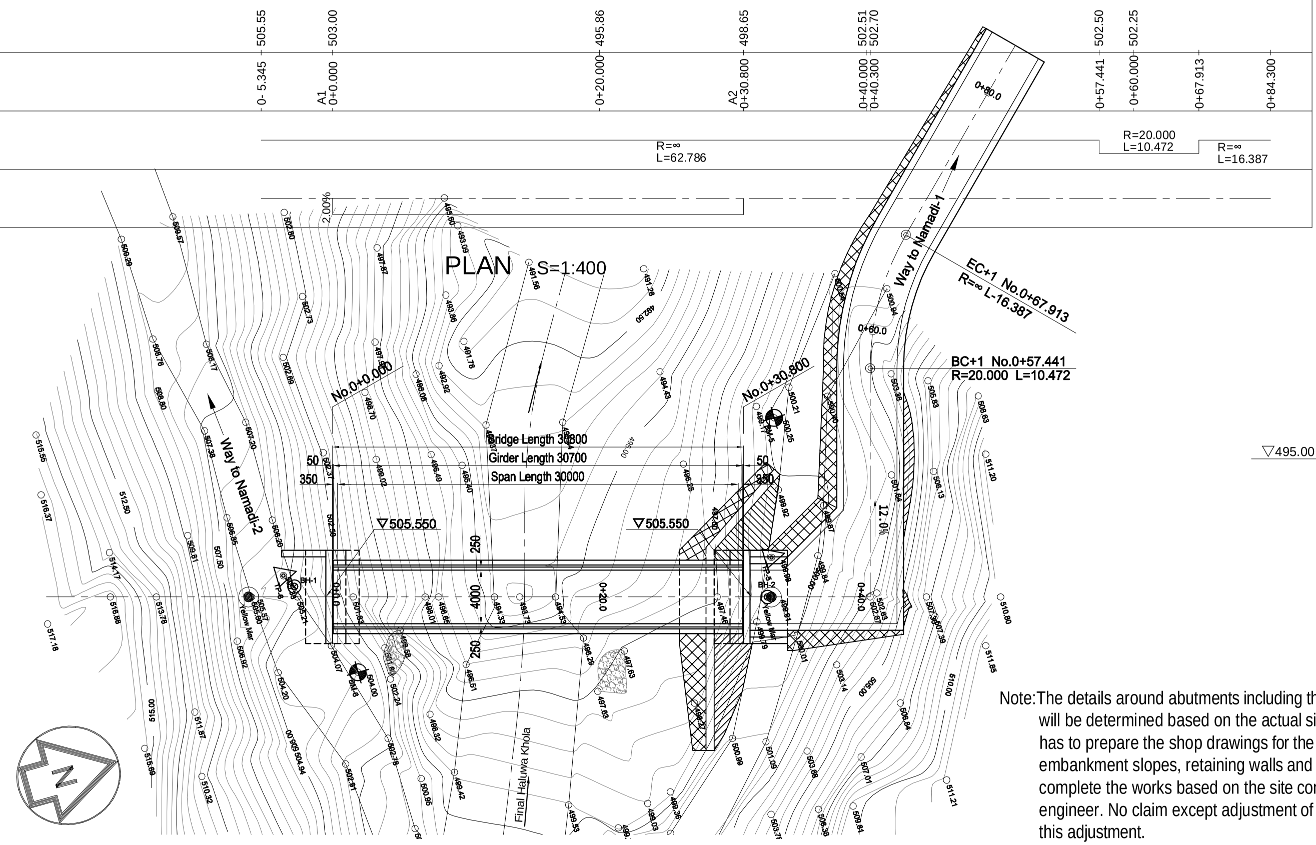
8-3 GENERAL VIEW OF HALUWA KHOLA BRIDGE

PROFILE S=1:400



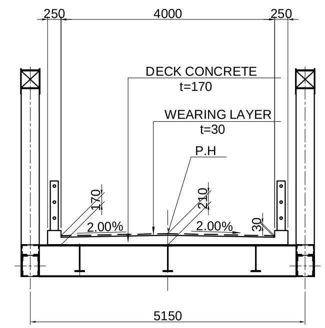
GRADE	505.550	LEVEL L=45.645m				505.550	i=12.000% L=44.000m				500.270
PROPOSED HEIGHT	505.550	505.550	505.550	505.550	505.550	505.550	503.493	503.186	502.236	500.270	
GROUND HEIGHT	505.55	503.00	495.86	498.65	502.51	502.70	502.50	502.25			
STATION	0- 5.345	A1 0+0.000	0+20.000	A2 0+30.800	0+40.000	0+40.300	0+57.441	0+60.000	0+67.913	0+84.300	
CURVE ELEMENT	R=∞ L=62.786						R=20.000 L=10.472		R=∞ L=16.387		
SUPER ELEVATION	2.00%										

PLAN S=1:400



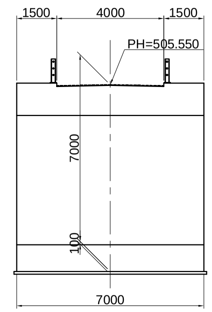
TYPICAL CROSS SECTION

SUPERSTRUCTURE S=1:100



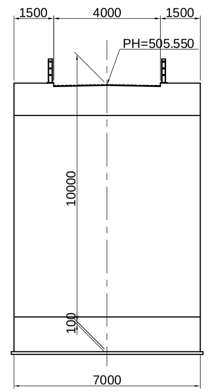
SUBSTRUCTURE S=1:200

A1 ABUTMENT



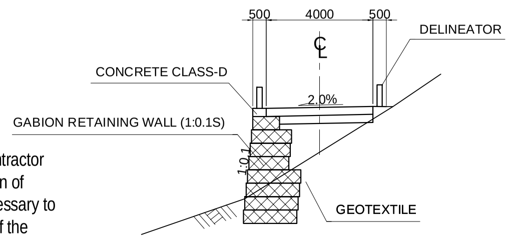
▽495.00

A2 ABUTMENT



▽495.00

APPROACH ROAD S=1:200

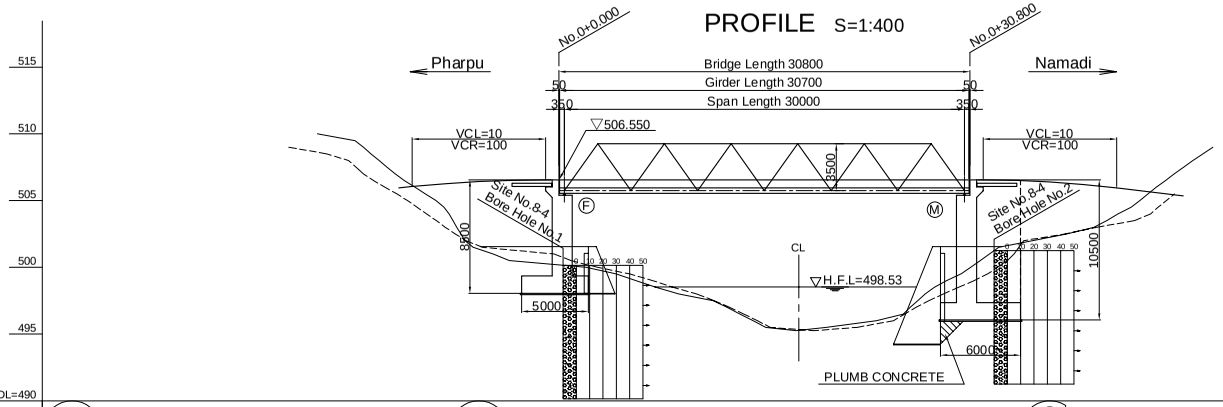


Note: The details around abutments including the lengths will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 1	DRAWING TITLE: 8-3 GENERAL VIEW OF HALUWA KHOLA BRIDGE	PROVINCE	Ramechhap	SCALE AS SHOWN	DRAWING NO: 2
			ROAD NAME	Betali-Namadi-Khimti		
			SITE NO.	8-3		
			RIVER NAME	HALUWA KHOLA		

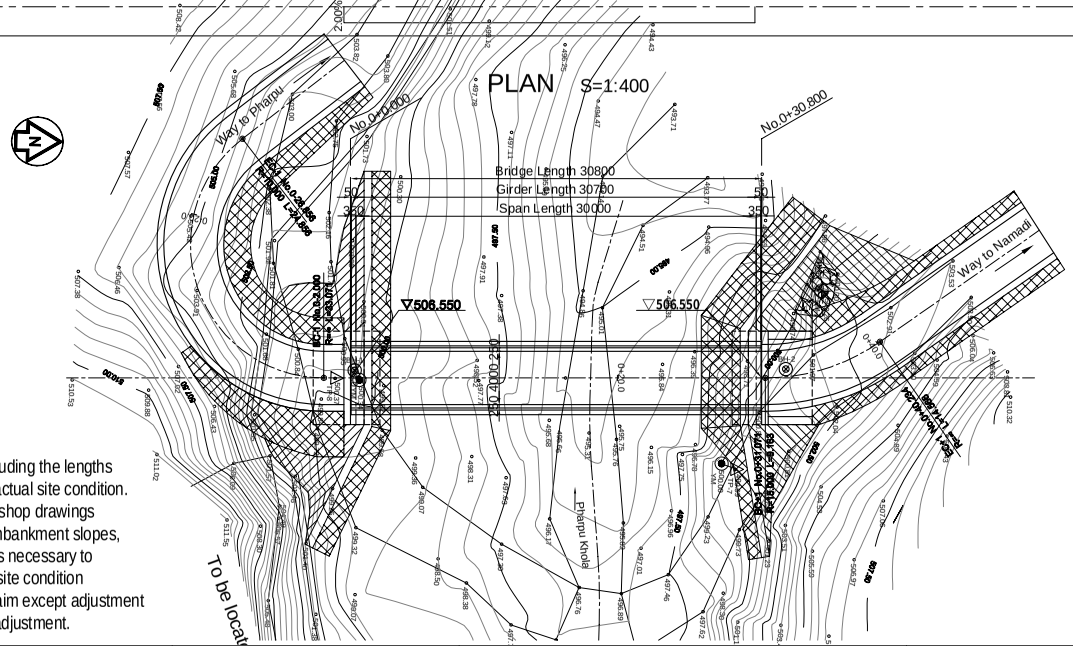
8-4 GENERAL VIEW OF PHARPU KHOLA BRIDGE

PROFILE S=1:400



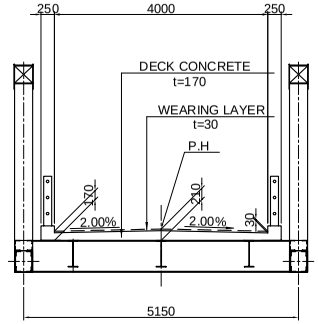
GRADE	503.500	i=10.0% L=30.80m			506.550	LEVEL L=42.80m					506.550	i=12.0% L=18.00m			504.390
PROPOSED HEIGHT	503.500	504.464	505.150	506.145	506.425	506.550	506.550	506.550		506.550 506.550	506.400	506.147 506.124			504.390
GROUND HEIGHT	503.48	504.30	505.30	503.80	501.36	500.35	500.18	495.50		499.95 500.14	502.26	502.90 503.08			504.40
STATION	0-36.500	0-26.856	0-20.000	0-10.000	0- 6.000	0- 2.000	A1 0+ 0.000	0+20.000		A2 0+30.800 0+31.071	0+36.800	0+40.000 0+40.234			0+54.800
CURVE ELEMENT	R=∞ L=9.644		R=10.000 L= 24.856						R=3 L=33.071		R=15.000 L= 9.163		R=∞ L=14.566		
SUPER ELEVATION															

PLAN S=1:400



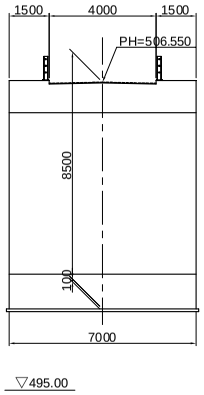
Note:The details around abutments including the lengths will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

TYPICAL CROSS SECTION SUPERSTRUCTURE S=1:100

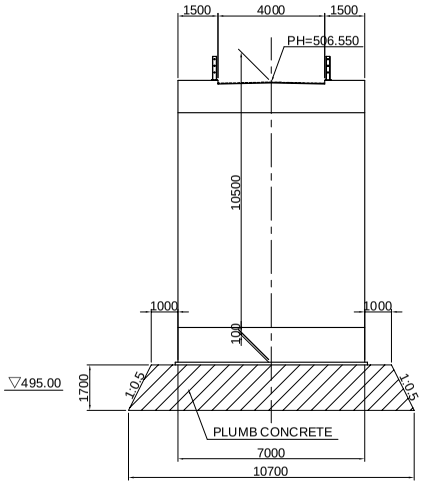


SUBSTRUCTURE S=1:200

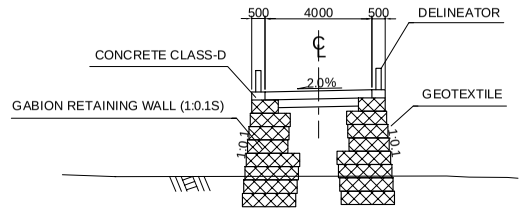
A1 ABUTMENT



A2 ABUTMENT



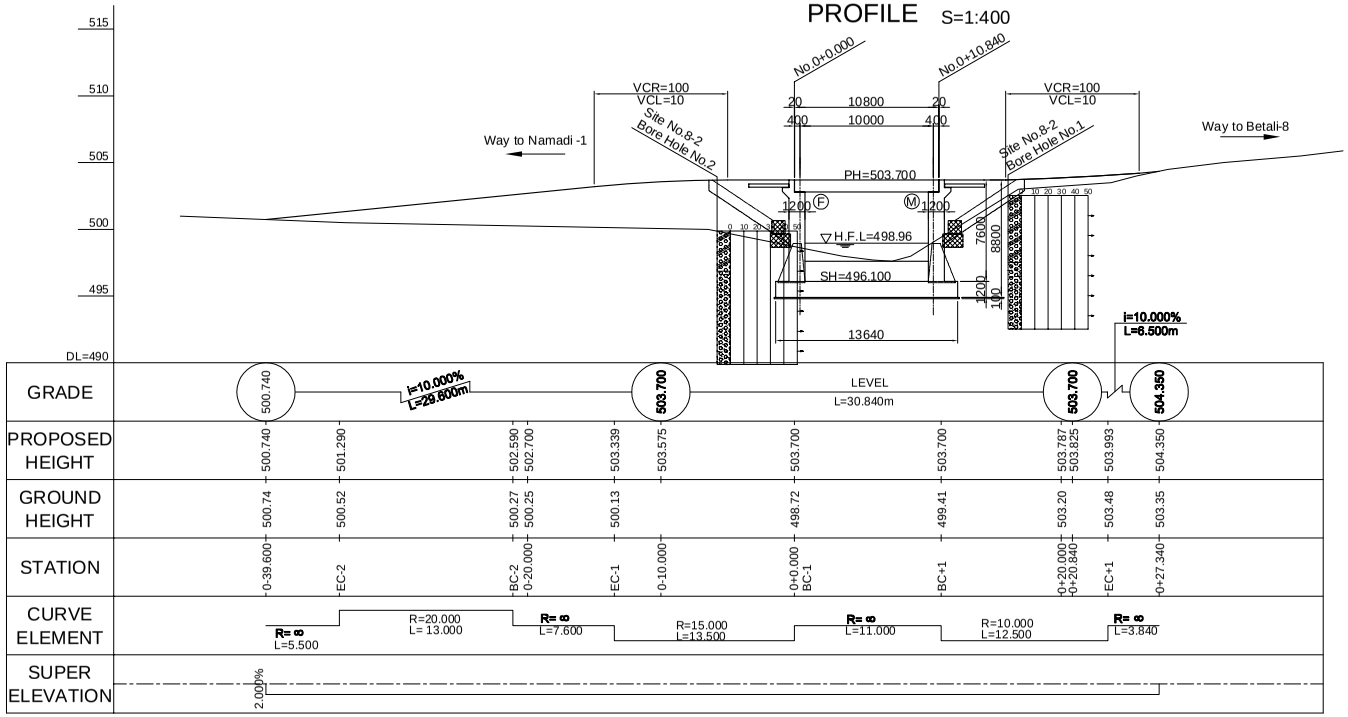
APPROACH ROAD S=1:200



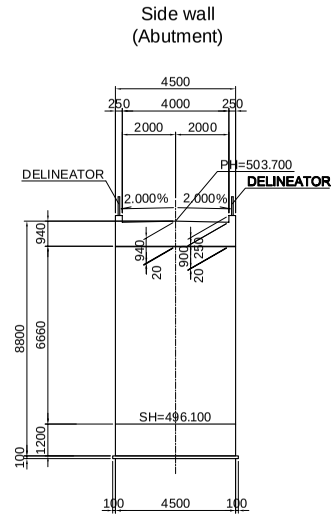
OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 1	DRAWING TITLE:	PROVINCE	Ramechhap	SCALE	DRAWING NO:
		8-4 GENERAL VIEW OF PHARPU KHOLA BRIDGE	ROAD NAME	Betali-Namadi-Khimti	AS SHOWN	3
			SITE NO.	8-4		
			RIVER NAME	PHARPU KHOLA		

8-2 GENERAL VIEW OF BOHARE KHOLA BRIDGE

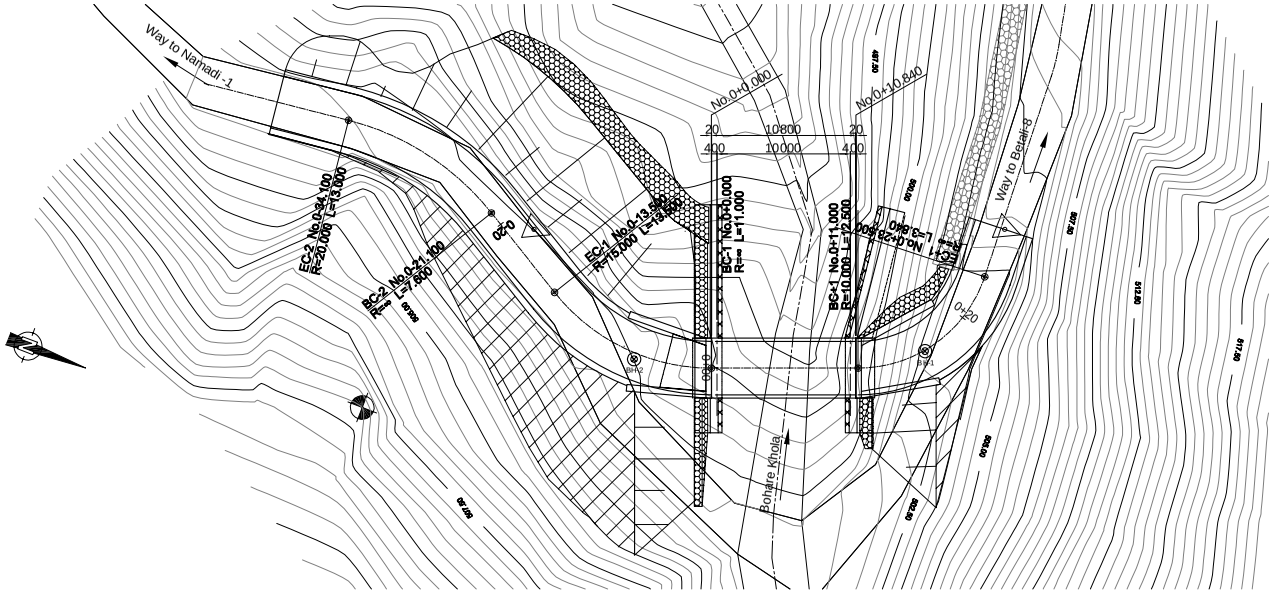
PROFILE S=1:400



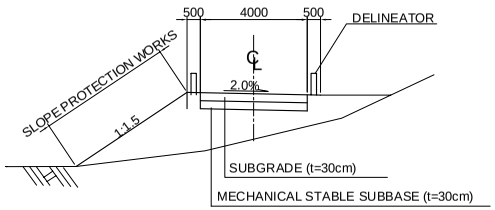
TYPICAL CROSS SECTION S=1:200



PLAN S=1:400



APPROACH ROAD S=1:200

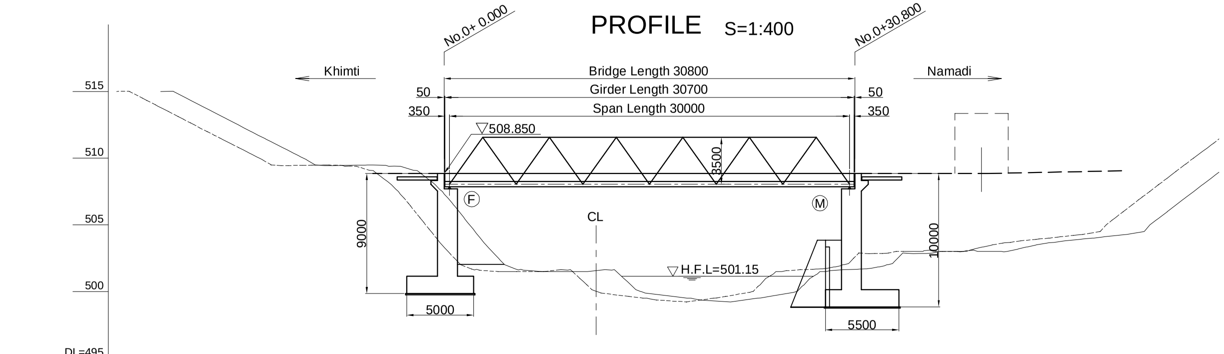


Note: The details around abutments including the lengths will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 1	DRAWING TITLE:	PROVINCE	Ramechhap	SCALE		DRAWING NO:
		8-2 GENERAL VIEW OF BOHARE KHOLA BRIDGE	ROAD NAME	Betali-Namadi-Khimti	AS SHOWN		4
			SITE NO.	8-2			
			RIVER NAME	BOHARE KHOLA			

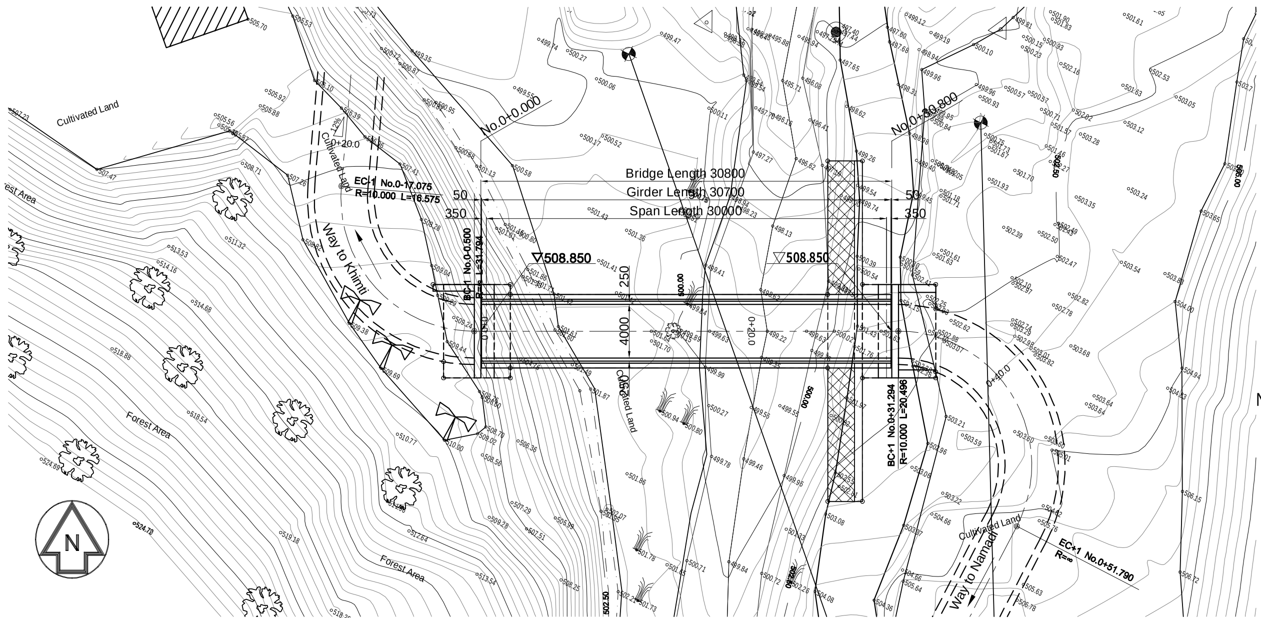
8-5 GENERAL VIEW OF CHHATAUNI KHOLA BRIDGE

PROFILE S=1:400



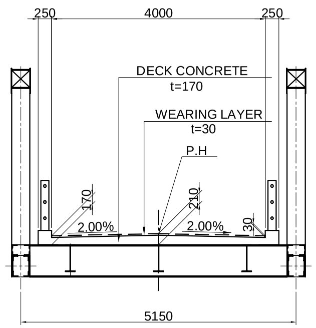
GRADE	508.850	LEVEL L=45.80m			508.850
PROPOSED HEIGHT	508.850	508.850	508.850	508.850	508.850
GROUND HEIGHT		507.85	507.33	501.66	503.00
STATION	0- 5.000	0- 0.500	0+ 0.000 A1	A2 0+30.800	0+40.800
CURVE ELEMENT	R=10.000 L= 16.575		R=∞ L=31.794		R=10.000 L= 20.496
SUPER ELEVATION		2.00%			

PLAN S=1:400



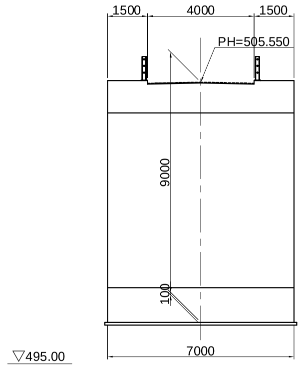
TYPICAL CROSS SECTION

SUPERSTRUCTURE S=1:100

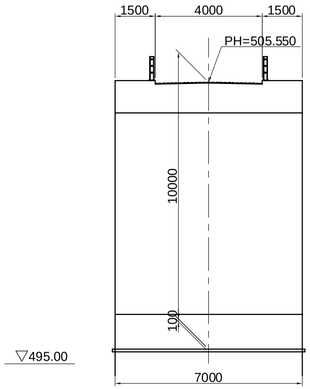


SUBSTRUCTURE S=1:200

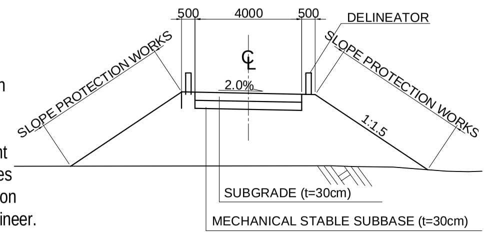
A1 ABUTMENT



A2 ABUTMENT



APPROACH ROAD S=1:200

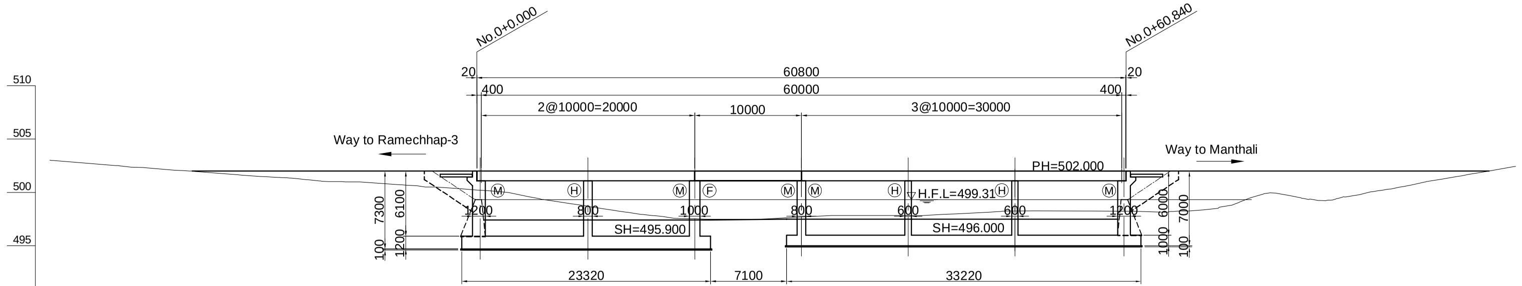


Note: The details around abutments including the lengths will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 2	DRAWING TITLE: 8-5 GENERAL VIEW OF CHHATAUNI KHOLA BRIDGE	PROVINCE	Ramechhap	SCALE: AS SHOWN	DRAWING NO: 5
			ROAD NAME	Betali-Namadi-Khimti		
			SITE NO.	8-5		
			RIVER NAME	CHHATAUNI KHOLA		

6-1 GENERAL VIEW OF SUKAJOR KHOLA BRIDGE

PROFILE S=1:500

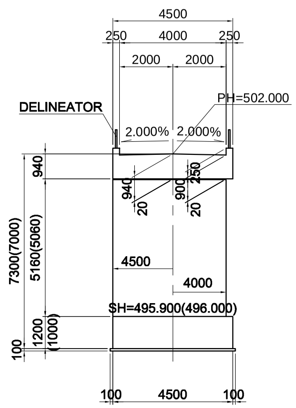


	0-26.650	0-20.000 BC-1	0+ 0.000	0+20.000	0+40.000	0+60.000 BC+1	EC+1	BC+2	0+80.000	EC+2	0+94.850
GRADE	502.000	LEVEL L=121.500m									502.000
PROPOSED HEIGHT	502.000	502.000 502.000	502.000	502.000	502.000	502.000 502.000	502.000	502.000	502.000	502.000	502.000
GROUND HEIGHT	502.00	501.48 501.47	500.23	497.54	497.83	498.24 498.23	498.82	499.50	499.27	500.62	502.00
CURVE ELEMENT	R=15.000 L= 6.820	R= ∞ L=81.170				R= 6.000 L= 9.420	R= ∞ L=6.398	R=15.000 L=10.000		R= ∞ L=7.692	
SUPER ELEVATION	2.000%										

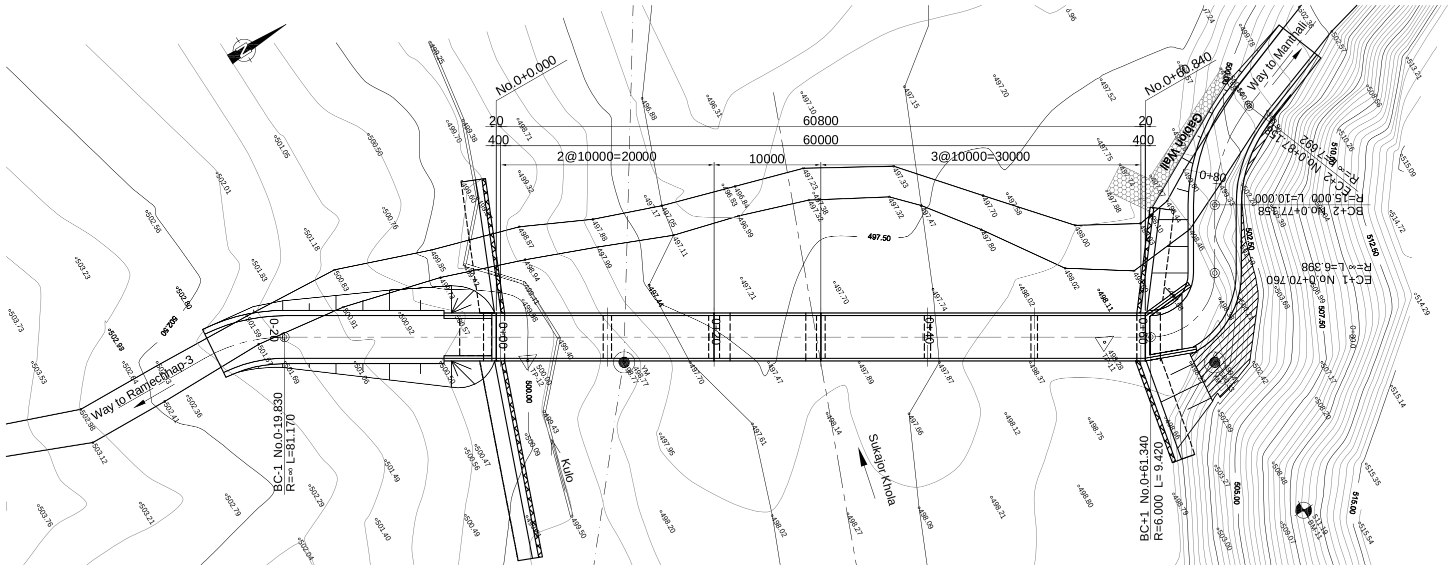
TYPICAL CROSS SECTION S=1:200

Side wall (Abutment)

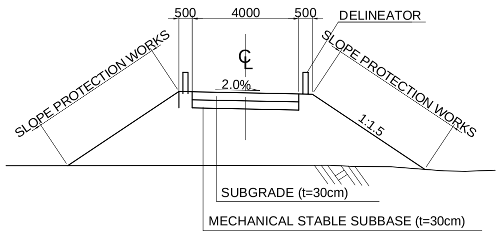
Intermediate wall (Pier)



PLAN S=1:500



APPROACH ROAD S=1:200

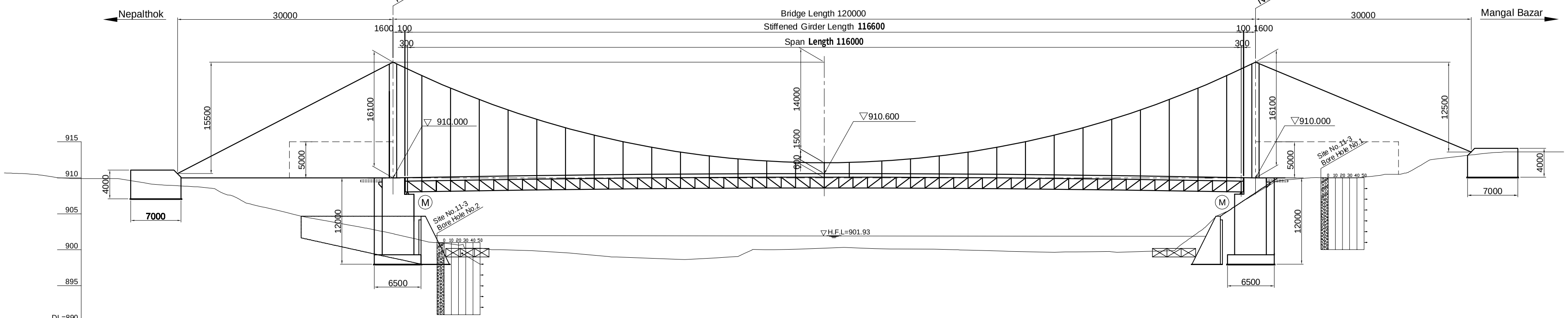


Note:The details around abutments including the lengths will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 2	DRAWING TITLE: 6-1 GENERAL VIEW OF SUKAJOR KHOLA BRIDGE	PROVINCE	Ramechhap	SCALE	DRAWING NO:
			ROAD NAME	Manthali-Ramechhap-Sangutar	AS SHOWN	6
			SITE NO.	6-1		
			RIVER NAME	SUKAJOR KHOLA		

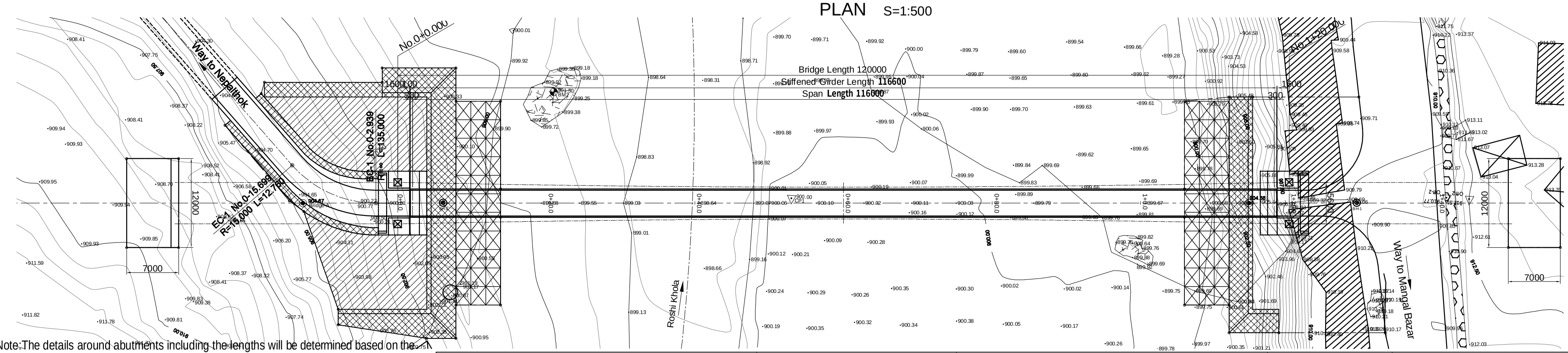
11-3 GENERAL VIEW OF ROSHI KHOLA-3 BRIDGE

PROFILE S=1:500



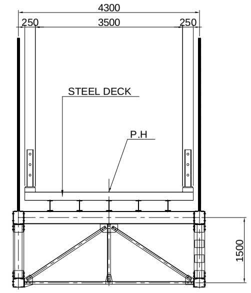
GRADE	910.000	LEVEL L=29.500			910.000	1.00% Palabolic Curve L=60.000		910.600	1.00% Palabolic Curve L=60.000		910.000 Shinduli Road
PROPOSED HEIGHT	910.000	910.000	910.000	910.000	910.000	910.333	910.533	910.600	910.533	910.333	910.000
GROUND HEIGHT	908.88	906.40	905.39	902.85	902.24	899.84	898.66	900.22	899.96	899.74	907.82
STATION	0-29.500	0-20.000	0-15.699	0- 2.939	A1 0+ 0.000	0+20.000	0+40.000	0+60.000	0+80.000	1+ 0.000	A2 1+20.000
CURVE ELEMENT	R=∞		R=15.000 L=12.760					R=∞ L=135.000			
SUPER ELEVATION											

PLAN S=1:500



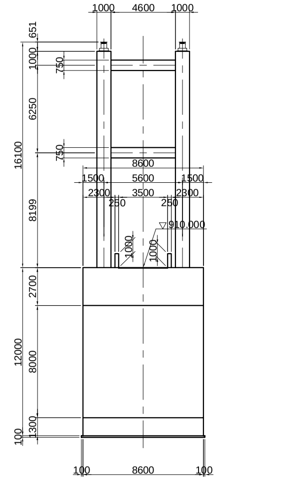
TYPICAL CROSS SECTION S=1:100

SUPERSTRUCTURE

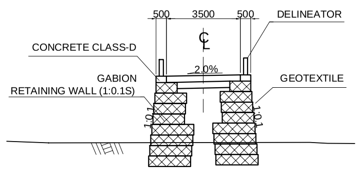


SUBSTRUCTURE S=1:300

A1 ABUTMENT



APPROACH ROAD S=1:200

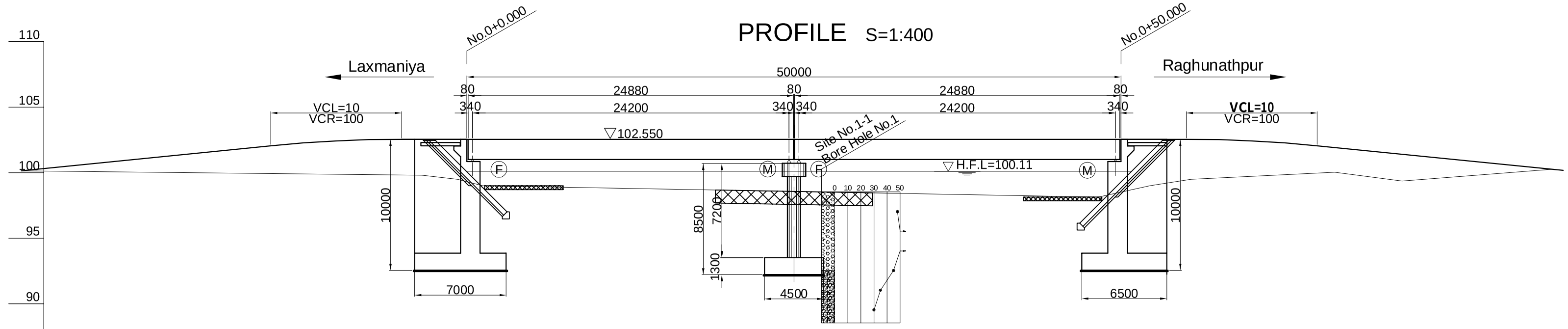


Note:The details around abutments including the lengths will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 3	DRAWING TITLE: 11-3 GENERAL VIEW OF ROSHI KHOLA-3 BRIDGE	PROVINCE	Kavrepalanchowk	SCALE	DRAWING NO:
			ROAD NAME	Bhore Dovan-Thulo Parcel	AS SHOWN	7
			SITE NO.	11-3		
			RIVER NAME	ROSHI KHOLA-3		

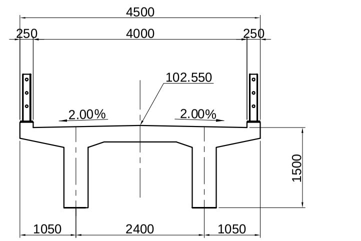
1-1 GENERAL VIEW OF DHOLAN KHOLA BRIDGE

PROFILE S=1:400

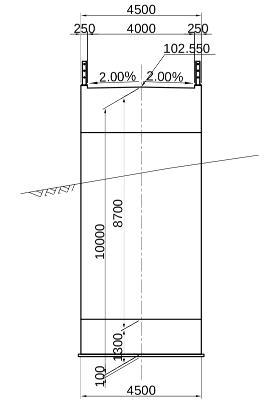


GRADE	100.150	i=10.000% L=24.00m	102.550			LEVEL L=70.000m			102.550	i=10.000% L=23.00m	100.250
PROPOSED HEIGHT	100.150	101.882	102.425	102.550	102.550	102.550	102.550	102.550	102.425	102.319	100.250
GROUND HEIGHT	100.14	99.95	99.87	99.30	98.66	98.57	98.30	98.52	99.73	99.82	100.25
STATION	0-34.000	0-16.678	0-10.000	A1 0+0.000	0+20.000	P1 0+25.000	0+40.000	A2 0+50.000	0+60.000	0+61.802	0+83.000
CURVE ELEMENT	R=30.000 L=17.322					R=∞ L=78.480				R=30.000 L=21.198	
SUPER ELEVATION				2.00%							

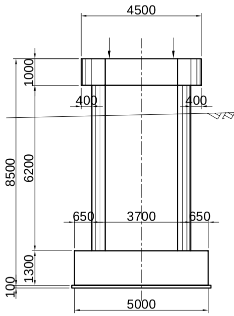
TYPICAL CROSS SECTION S=1:100
SUPERSTRUCTURE



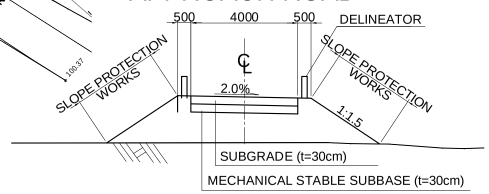
SUBSTRUCTURE S=1:200
A1 ABUTMENT



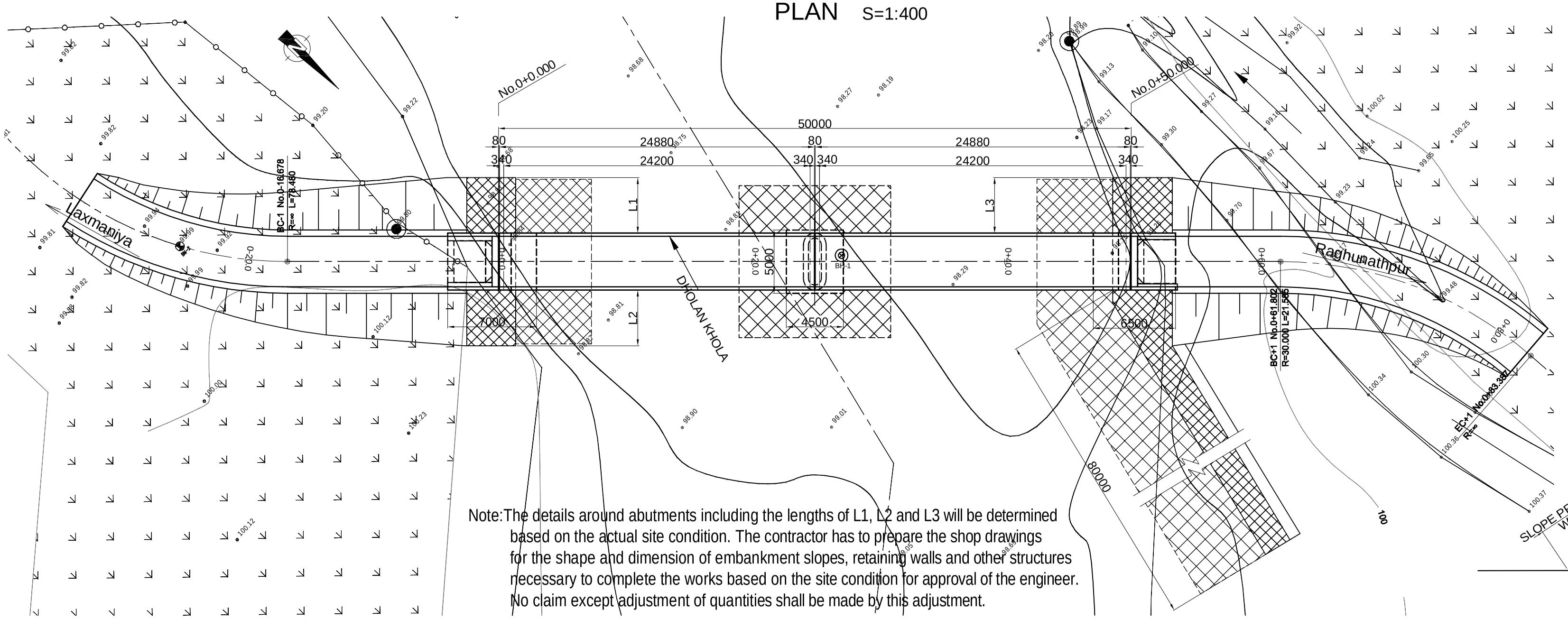
P1 PIER



APPROACH ROAD S=1:200



PLAN S=1:400

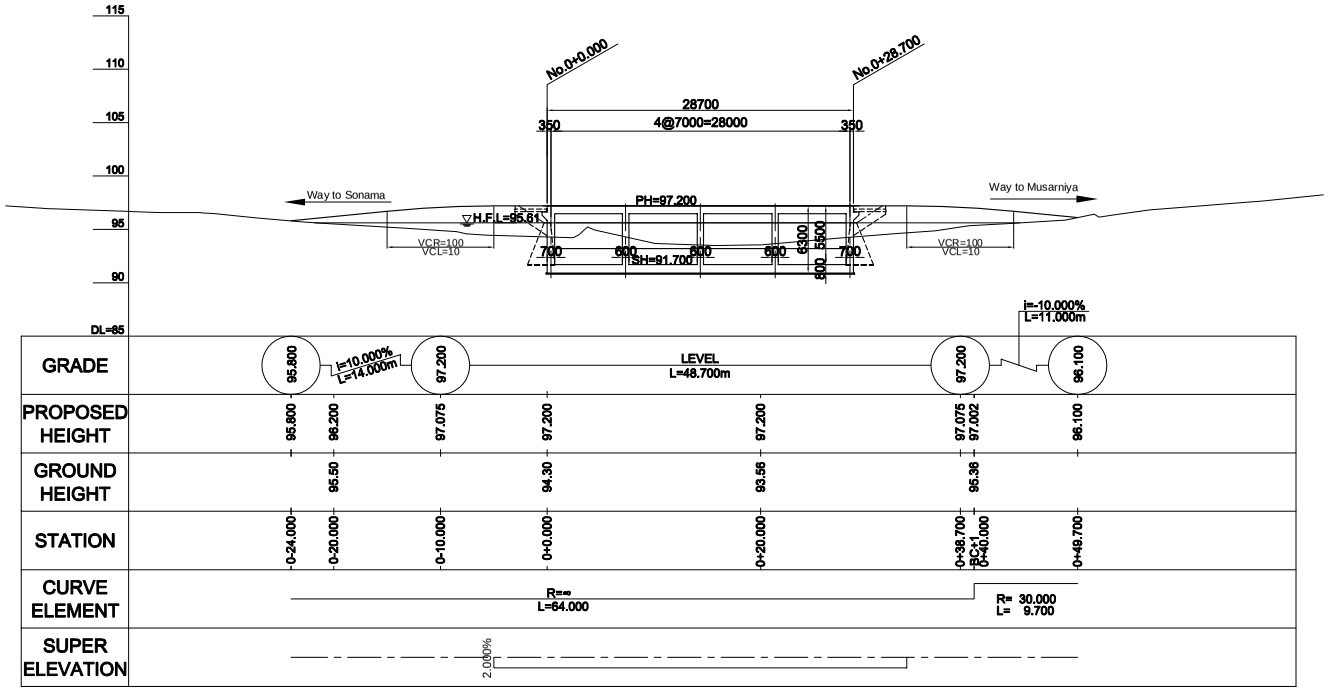


Note: The details around abutments including the lengths of L1, L2 and L3 will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

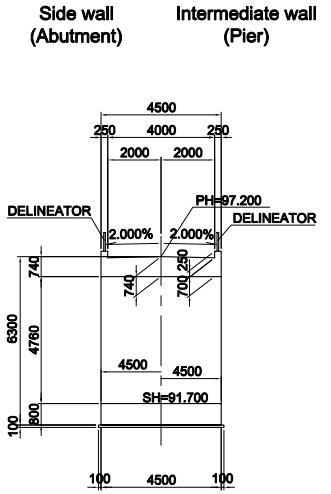
OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 4	DRAWING TITLE: 1-1 GENERAL VIEW OF DHOLAN KHOLA BRIDGE	PROVINCE	Mahottari	SCALE: AS SHOWN	DRAWING NO: 8
			ROAD NAME	Laxmaniya-Baratpur-Raghunathpur		
			SITE NO.	1-1		
			RIVER NAME	DHOLAN KHOLA		

1-2 GENERAL VIEW OF KANTWA KHOLA BRIDGE

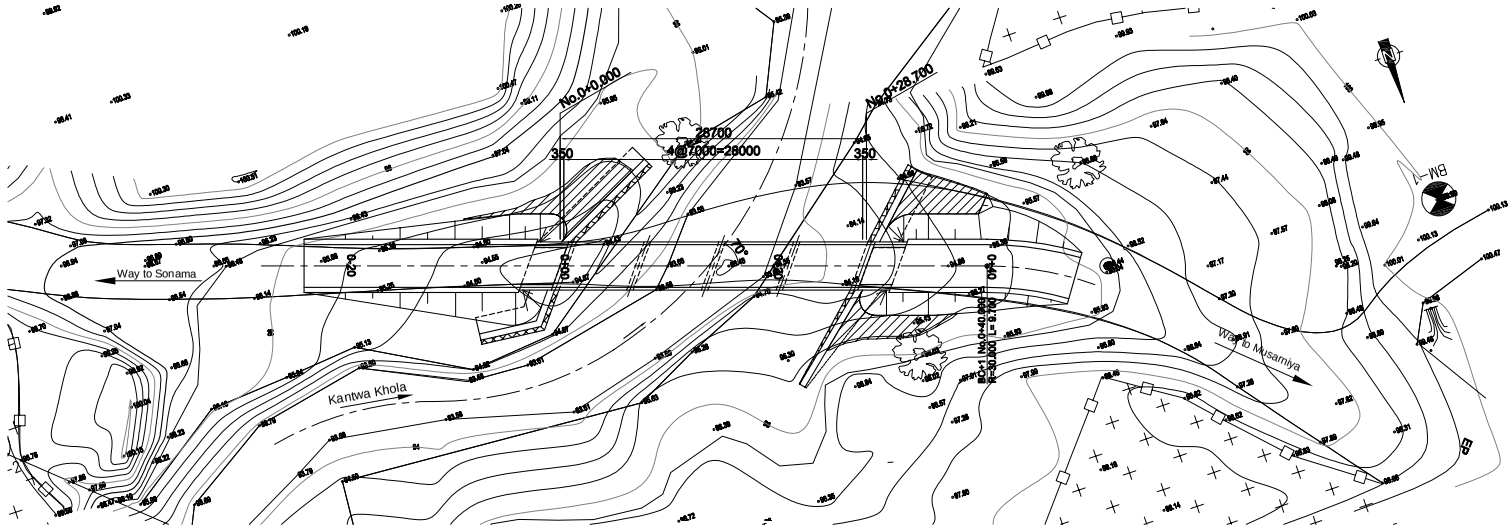
PROFILE S=1:500



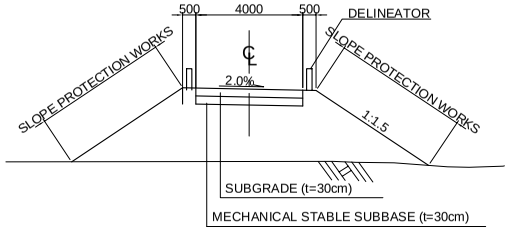
TYPICAL CROSS SECTION S=1:200



PLAN S=1:500



APPROACH ROAD S=1:200

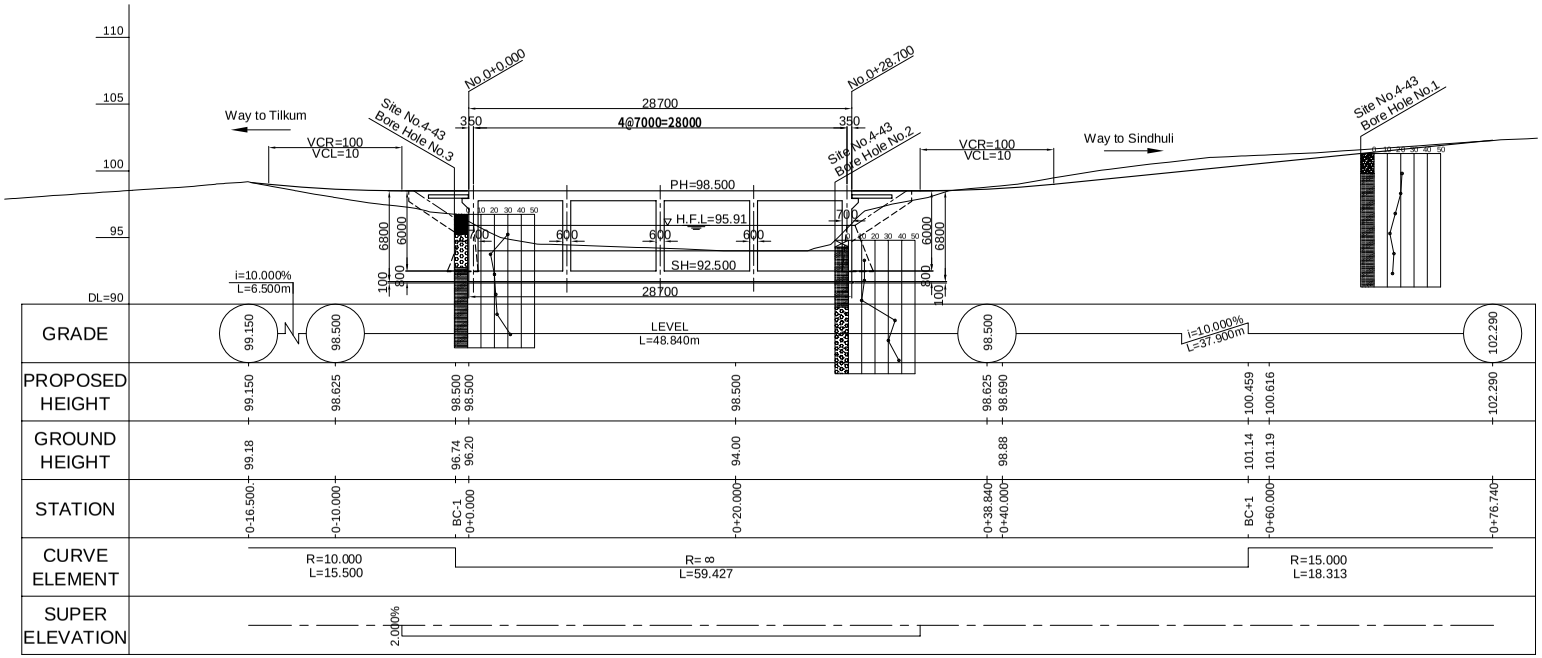


Note: The details around abutments including the lengths will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

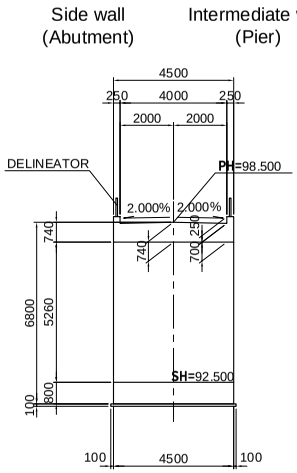
OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 4	DRAWING TITLE:	PROVINCE	Mahottari	SCALE		DRAWING NO:
		1-2 GENERAL VIEW OF KANTWA KHOLA BRIDGE	ROAD NAME	Laxmaniya-Baratpur-Raghunathpur	AS SHOWN		9
			SITE NO.	1-2			
			RIVER NAME	KANTWA KHOLA			

4-43 GENERAL VIEW OF DHANSARI KHOLA BRIDGE

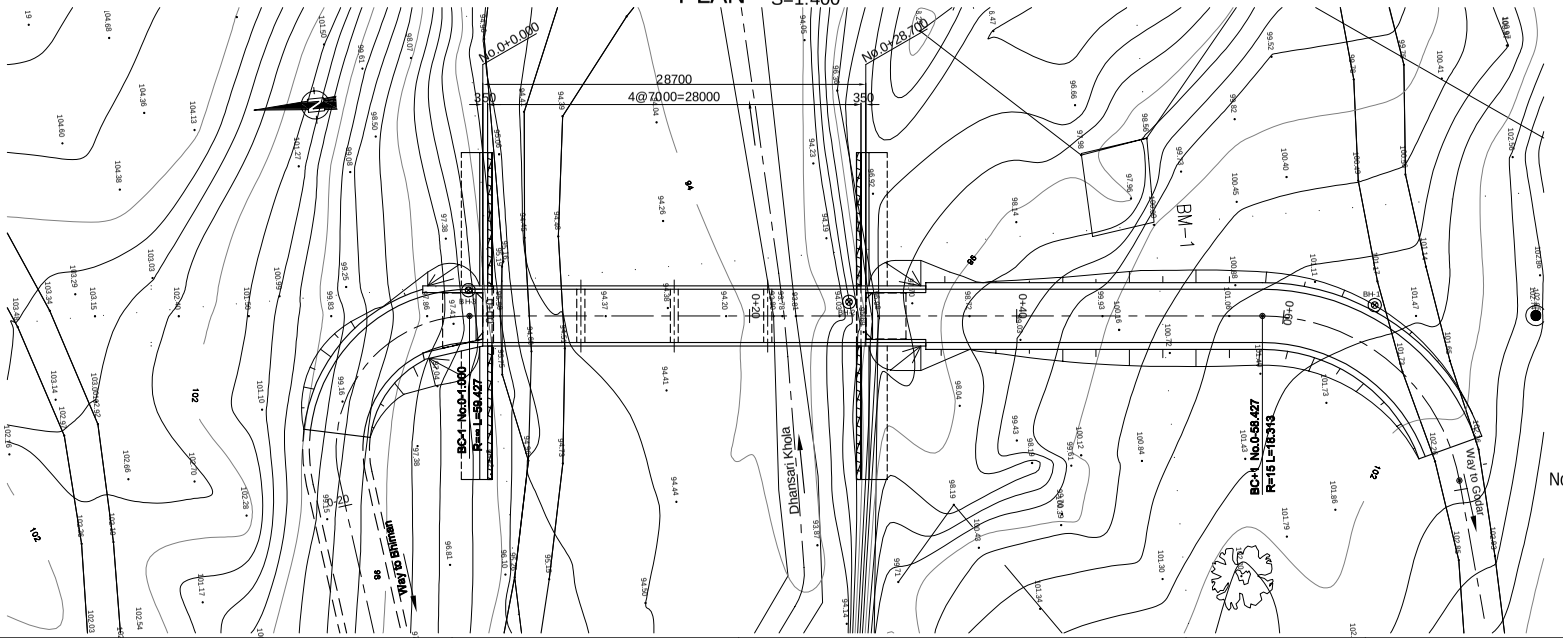
PROFILE S=1:400



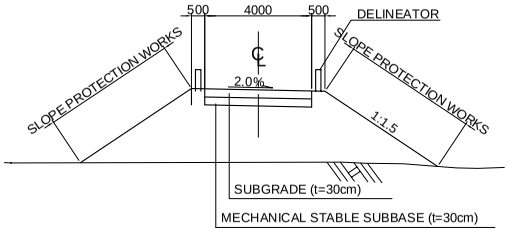
TYPICAL CROSS SECTION S=1:200



PLAN S=1:400



APPROACH ROAD S=1:200

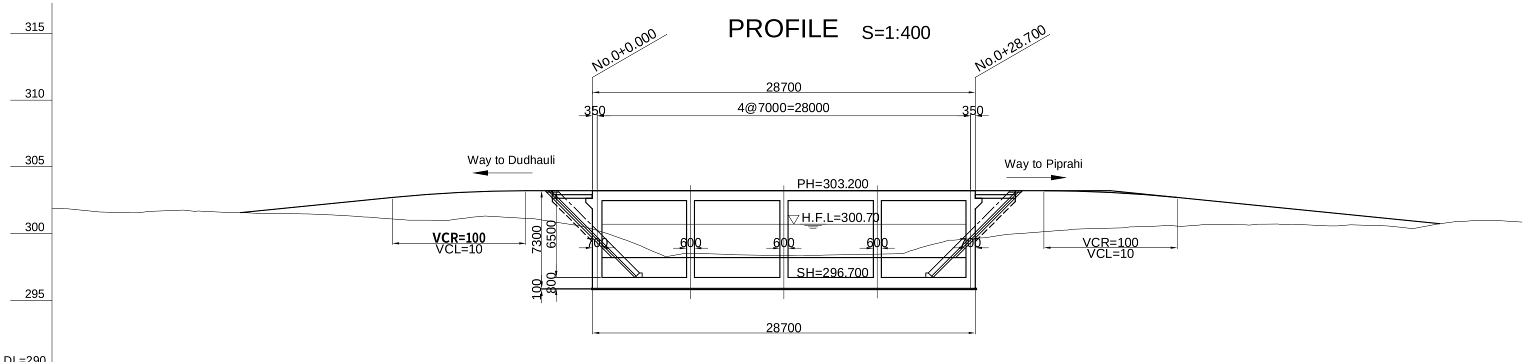


Note: The details around abutments including the lengths will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 5	DRAWING TITLE:	PROVINCE	Sindhuli	SCALE	DRAWING NO:
		4-43 GENERAL VIEW OF DHANSARI KHOLA BRIDGE	ROAD NAME	Bhiman-Dhansari	AS SHOWN	10
			SITE NO.	4-43		
			RIVER NAME	DHANSARI KHOLA		

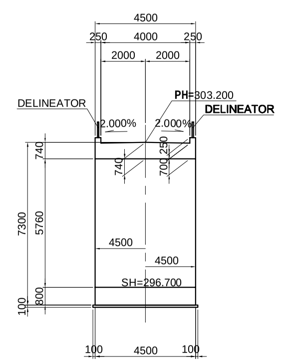
5-11 GENERAL VIEW OF KARTHA KHOLA BRIDGE

PROFILE S=1:400

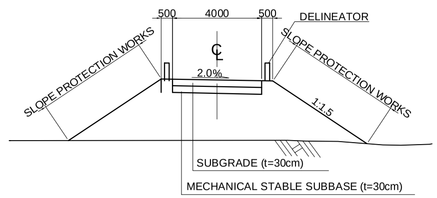


GRADE	301.560	i=10.000% L=16.400m			303.200	LEVEL L=48.840m			303.200	i=10.000% L=24.700m		300.730
PROPOSED HEIGHT	301.560	301.930	302.200	302.630	303.075	303.200	303.200	303.200	303.075	303.010	301.084	300.730
GROUND HEIGHT	301.56	301.45	301.42	301.14		300.61	300.34	298.43		300.46	300.53	300.73
STATION	0-26.400	BC-2	0-20.000	EC-1	0-10.000	BC-1	0+0.000	0+20.000	0+38.840	0+40.000	0+60.000	0+63.540
CURVE ELEMENT	R= 15.000 L= 3.700	R= ∞ L= 7.000		R= 15.000 L= 14.500		R= ∞ L= 64.740						
SUPER ELEVATION						2.000%						

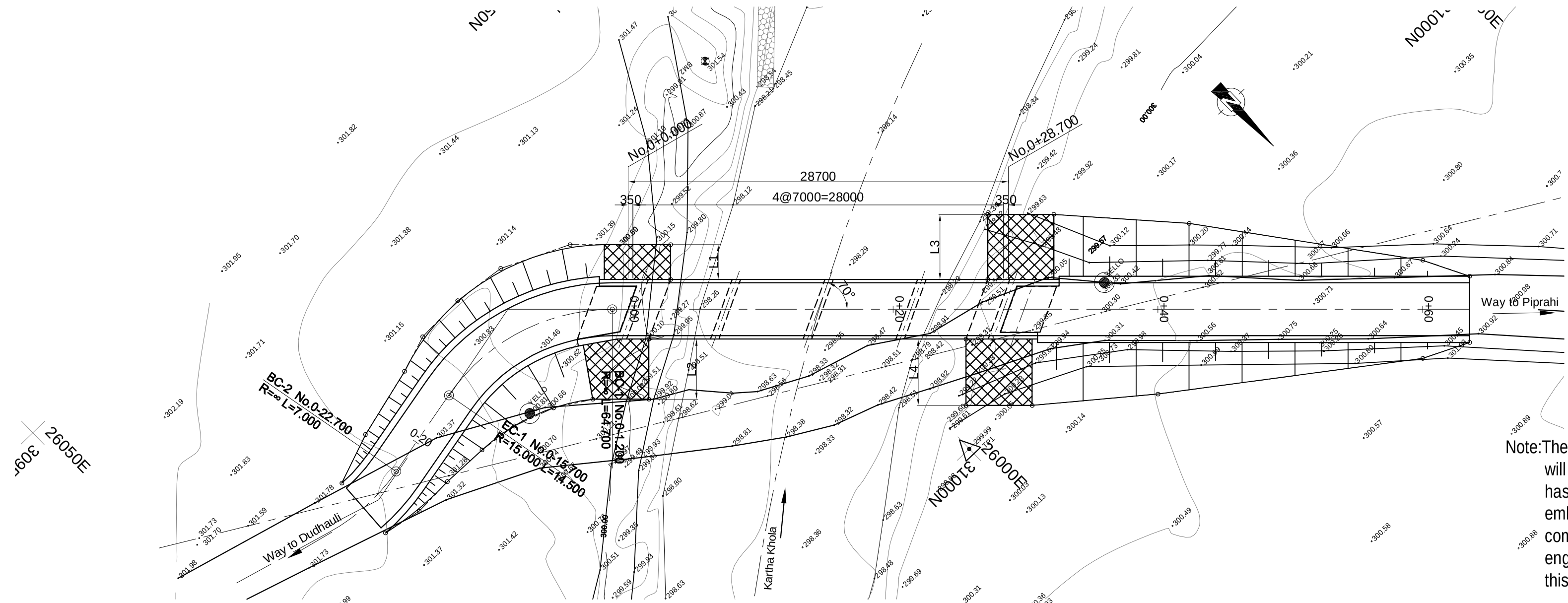
TYPICAL CROSS SECTION S=1:200



APPROACH ROAD S=1:200



PLAN S=1:400

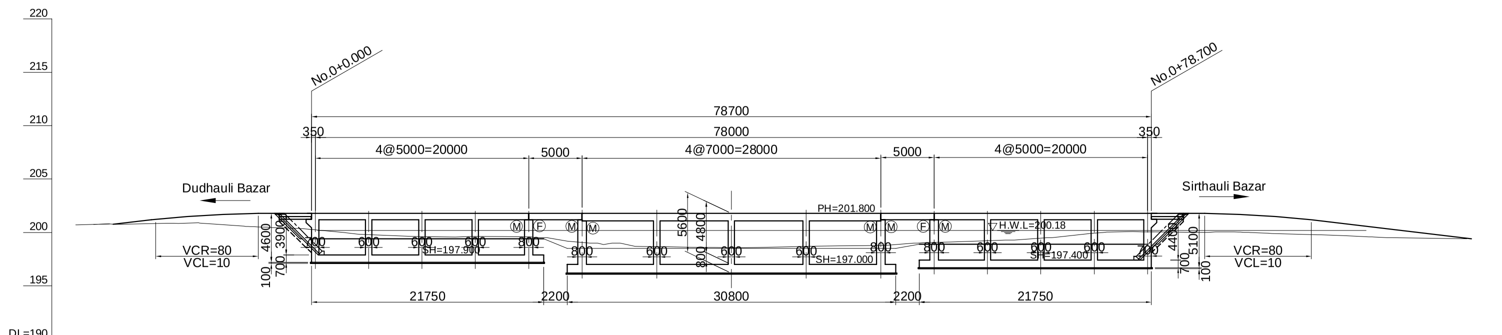


Note: The details around abutments including the lengths of L1, L2, L3 and L4 will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 5	DRAWING TITLE: 5-11 GENERAL VIEW OF KARTHA KHOLA BRIDGE	PROVINCE	Sindhuli	SCALE: AS SHOWN	DRAWING NO: 11
			ROAD NAME	Dakaha-Sirthauli-Dudhauli-Katari		
			SITE NO.	5-11		
			RIVER NAME	KARTHA KHOLA		

5-8 GENERAL VIEW OF TALKHA KHOLA BRIDGE

PROFILE S=1:500



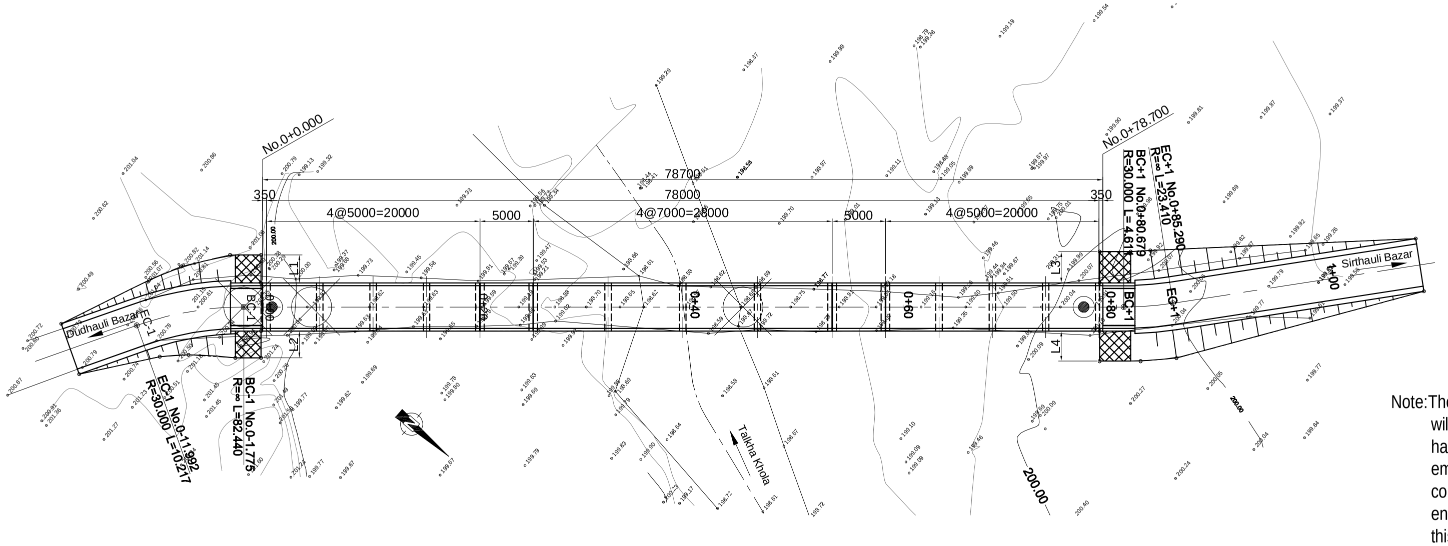
GRADE			
200.768	i=12.000% L=8.600m	201.800	
201.800	LEVEL L=98.700m	201.800	
201.800	i=12.000% L=20.000m	199.400	

STATION	PROPOSED HEIGHT	GROUND HEIGHT
0-18.600	200.768	200.77
0-11.992	201.507	200.87
0-10.000	201.650	
0-1.775	201.800	200.40
0+0.000	201.800	200.28
0+20.000	201.800	199.59
0+40.000	201.800	198.57
0+60.000	201.800	199.11
0+80.000	201.800	200.04
0+80.679	201.800	200.04
0+85.290	201.785	200.05
0+88.700	201.650	
1+0.000	200.444	199.56
1+8.700	199.400	

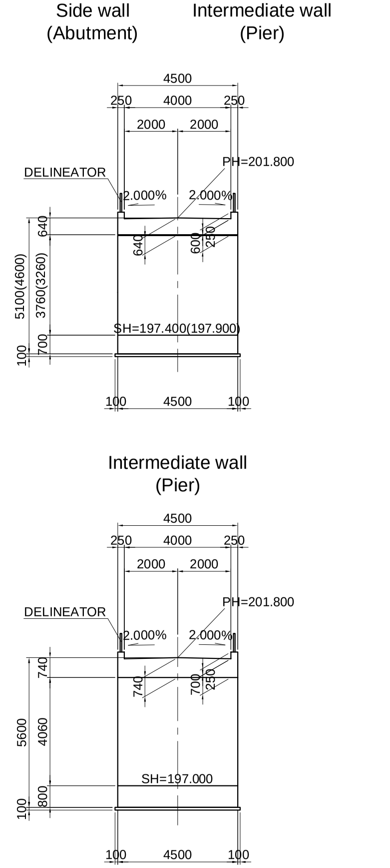
CURVE ELEMENT: R=∞ L=6.608; R=30.000 L=10.217; R=∞ L= 82.440; R=30.000 L=4.611; R=∞ L=23.410

SUPER ELEVATION: 2.000%

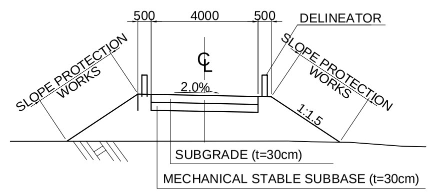
PLAN S=1:500



TYPICAL CROSS SECTION S=1:200



APPROACH ROAD S=1:200

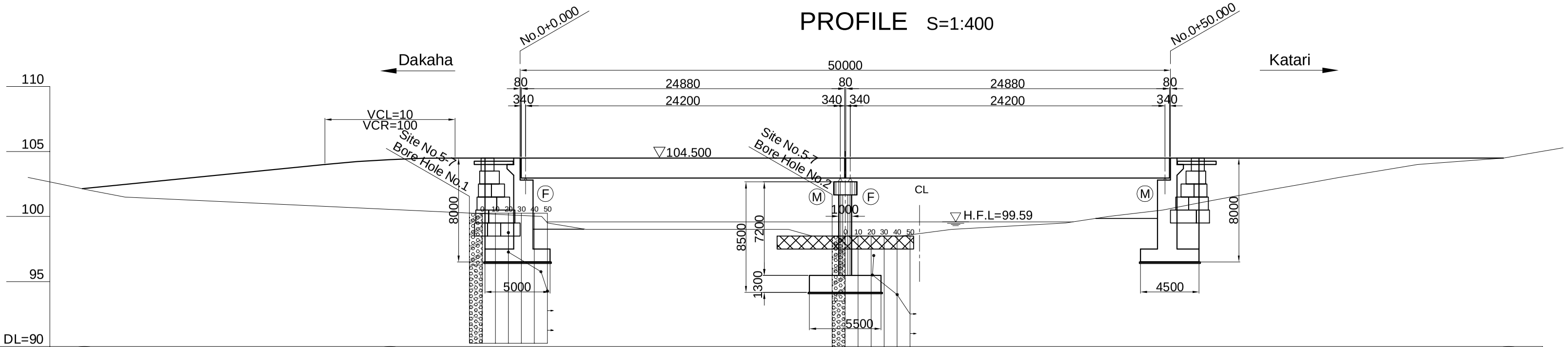


Note: The details around abutments including the lengths of L1, L2, L3 and L4 will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 5	DRAWING TITLE: 5-8 GENERAL VIEW OF TALKHA KHOLA BRIDGE	PROVINCE	Sindhuli	SCALE: AS SHOWN	DRAWING NO: 12
			ROAD NAME	Dakaha-Sirthauli-Dudhauli-Katari		
			SITE NO.	5-8		
			RIVER NAME	TALKHA KHOLA		

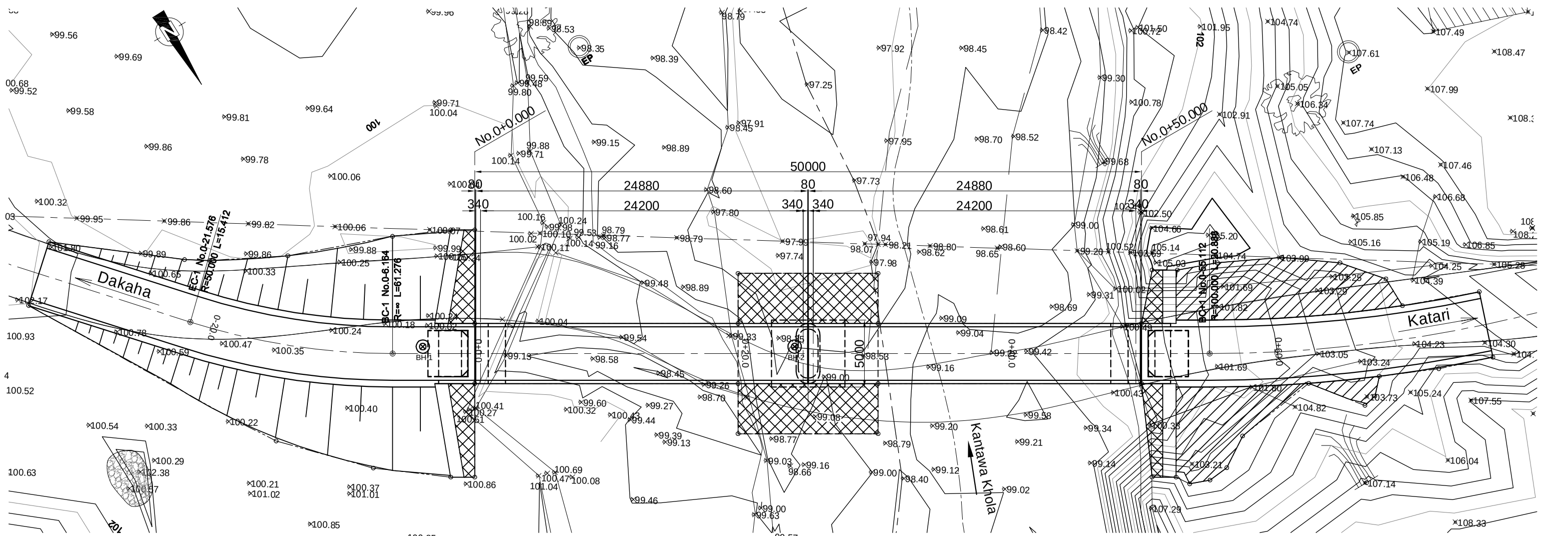
5-7 GENERAL VIEW OF KANTAWA KHOLA BRIDGE

PROFILE S=1:400



GRADE	102.150	i=10.000% L=23.500m	104.500		LEVEL L=86.00m				104.500
PROPOSED HEIGHT	102.150	103.342	104.375	104.500	104.500	104.500	104.500	104.500	104.500
GROUND HEIGHT	102.10	101.09	100.55	100.37	100.08	98.50	100.61	101.59	104.50
STATION	0-33.500	0-21.576	0-10.000	0- 6.164	A1 0+ 0.000	P1 0+25.000	A2 0+50.000	0+55.112	0+76.000
CURVE ELEMENT	R=∞ L=11.924	R=50.000 L=15.412			R=∞ L=61.276			R=100.000 L=20.888	
SUPER ELEVATION					2.000%				

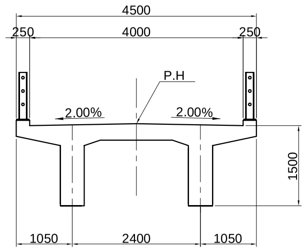
PLAN S=1:400



Note:The details around abutments including the lengths will be determined based on the actual site condition.
The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer.
No claim except adjustment of quantities shall be made by this adjustment.

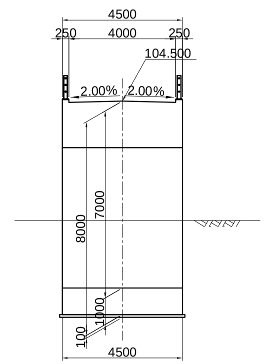
TYPICAL CROSS SECTION S=1:100

SUPERSTRUCTURE

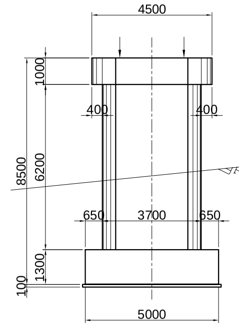


SUBSTRUCTURE S=1:200

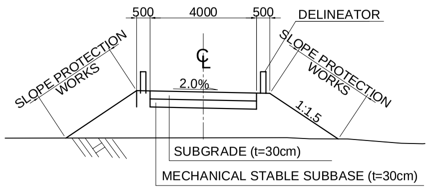
A1 ABUTMENT



P1 PIER



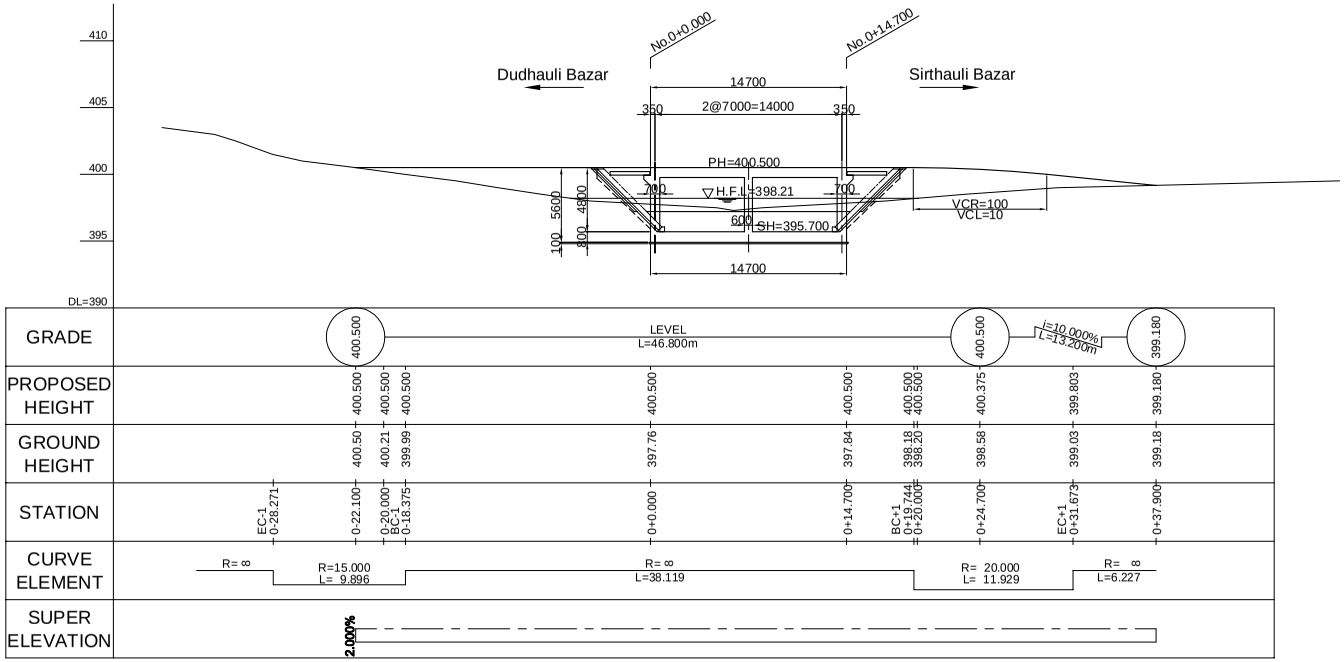
APPROACH ROAD S=1:200



OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 5	DRAWING TITLE: 5-7 GENERAL VIEW OF KANTAWA KHOLA BRIDGE	PROVINCE	Sindhuli	SCALE	DRAWING NO:
			ROAD NAME	Dakaha-Sirthauli-Dudhauli-Katari	AS SHOWN	13
			SITE NO.	5-7		
			RIVER NAME	KANTAWA KHOLA		

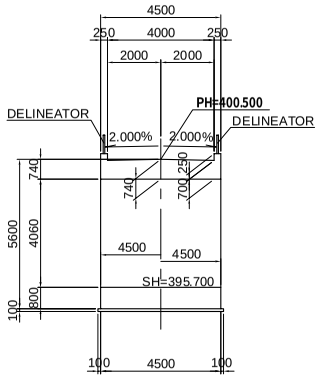
5-9 GENERAL VIEW OF PIPRAHI KHOLA BRIDGE

PROFILE S=1:400

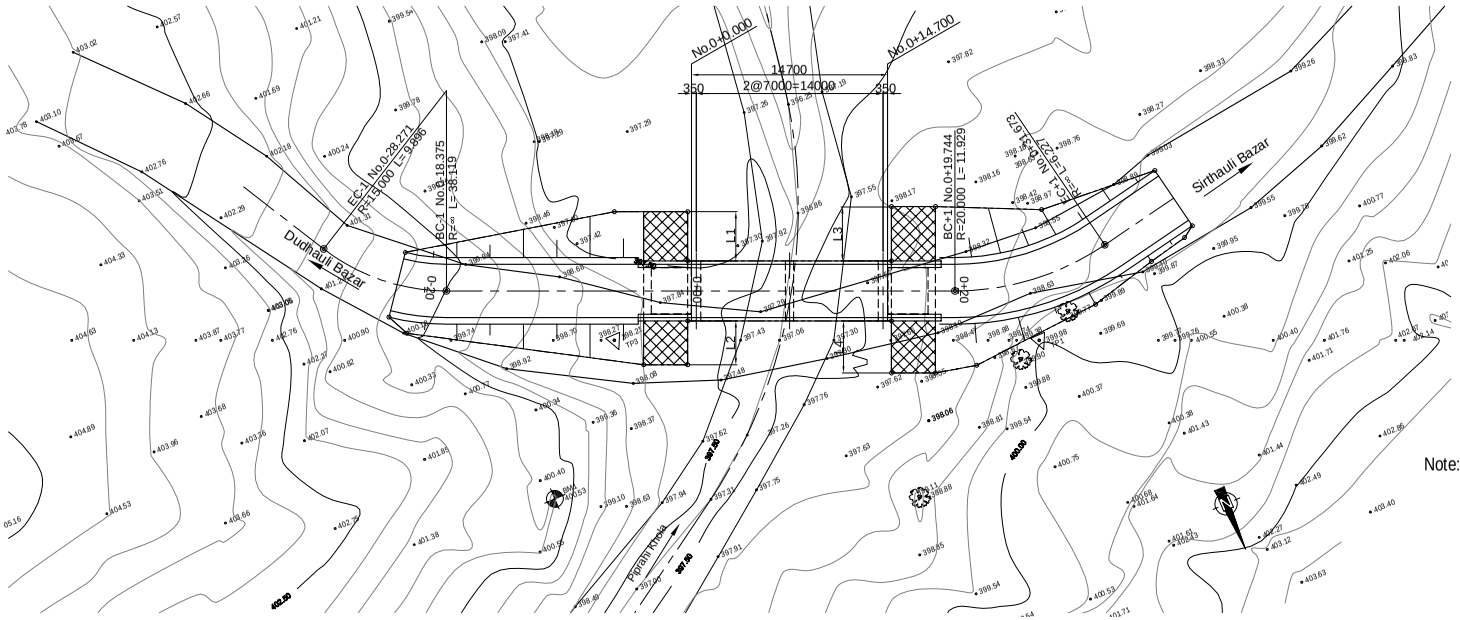


TYPICAL CROSS SECTION S=1:200

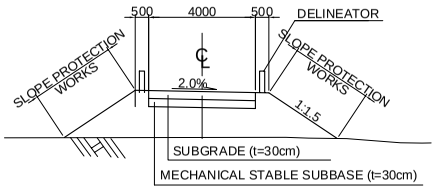
Side wall (Abutment) Intermediate wall (Pier)



PLAN S=1:400



APPROACH ROAD S=1:200

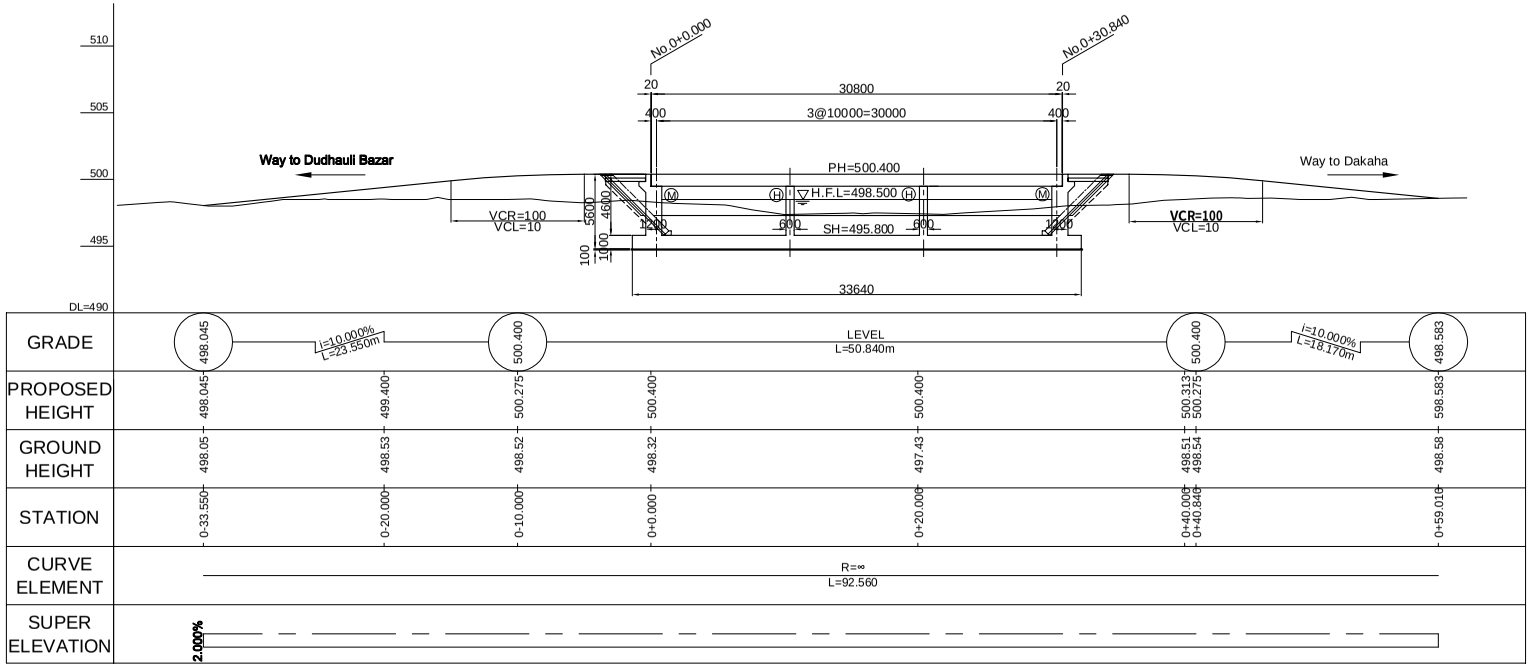


Note: The details around abutments including the lengths of L1, L2, L3 and L4 will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 5	DRAWING TITLE:	PROVINCE	Sindhuli	SCALE	DRAWING NO:
		5-9 GENERAL VIEW OF PIPRAHI KHOLA BRIDGE	ROAD NAME	Dakaha-Sirthauli-Dudhauli-Katari	AS SHOWN	14
			SITE NO.	5-9		
			RIVER NAME	PIPRAHI KHOLA		

5-5 GENERAL VIEW OF THAKUR KHOLA-4 BRIDGE

PROFILE S=1:400

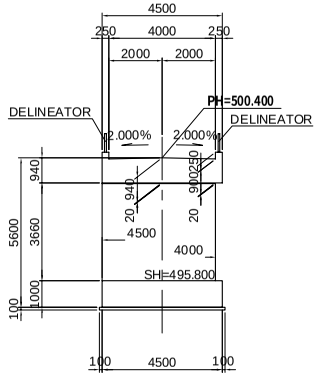


GRADE	498.045	i=10.000% L=23.550m	500.400	LEVEL L=50.840m		500.400	i=10.000% L=18.170m	498.583
PROPOSED HEIGHT	498.045	499.400	500.275	500.400	500.400	500.313 500.275		598.583
GROUND HEIGHT	498.05	498.53	498.52	498.32	497.43	498.51 498.54		498.58
STATION	0-33.550	0-20.000	0-10.000	0+0.000	0+20.000	0+40.000 0+40.840		0+59.016
CURVE ELEMENT	R=∞ L=92.560							
SUPER ELEVATION	2.000%							

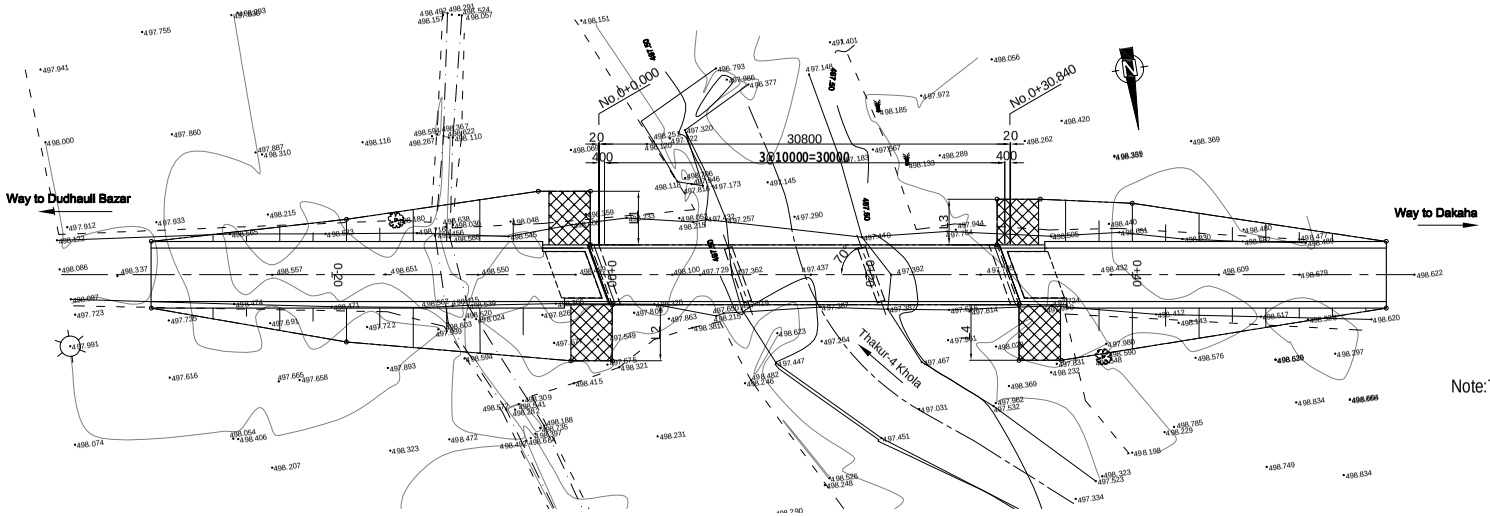
TYPICAL CROSS SECTION

S=1:200

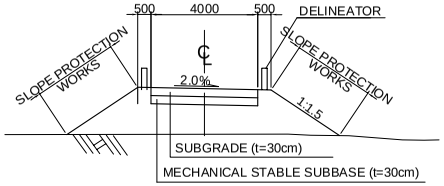
Side wall (Abutment) Intermediate wall (Pier)



PLAN S=1:400



APPROACH ROAD S=1:200

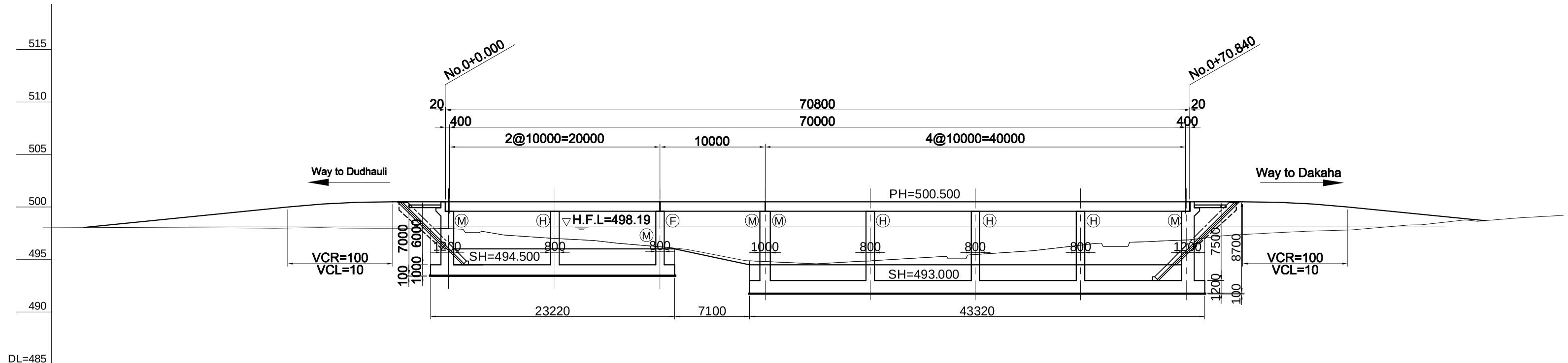


Note: The details around abutments including the lengths of L1, L2, L3 and L4 will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FORTHE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 6	DRAWING TITLE:	PROVINCE	Sindhuli	SCALE		DRAWING NO:
		5-5 GENERAL VIEW OF THAKUR KHOLA-4 BRIDGE	ROAD NAME	Dakaha-Sirthauli-Dudhauli-Katari	AS SHOWN		15
			SITE NO.	5-5			
			RIVER NAME	THAKUR KHOLA-4			

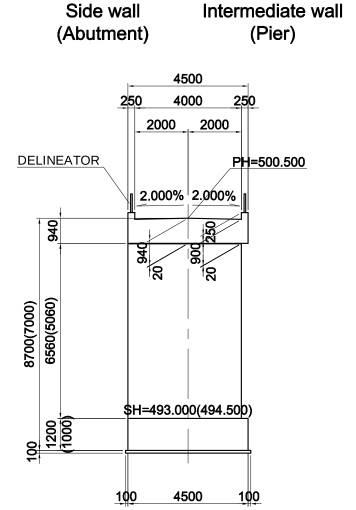
5-4 GENERAL VIEW OF THAKUR KHOLA-3 BRIDGE

PROFILE S=1:500

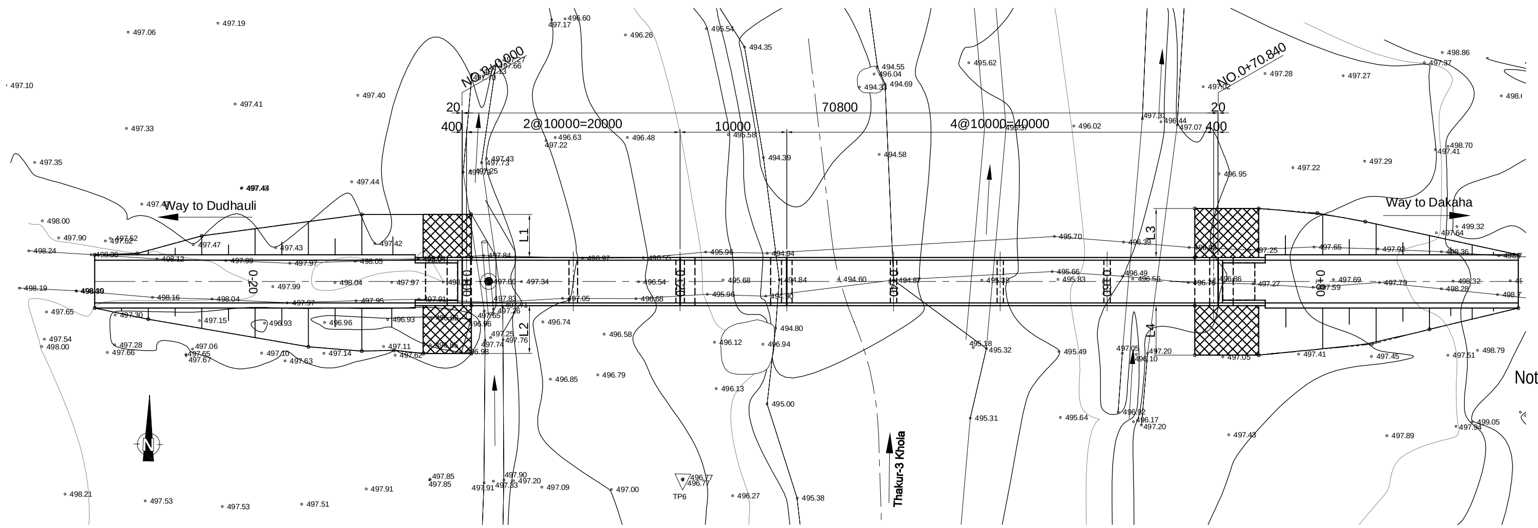


GRADE	498.060	i=10.000% L=24.400m	500.500	LEVEL L=90.840m				500.500	i=10.000% L=18.100m	498.690
PROPOSED HEIGHT	498.060	499.500	500.375	500.500	500.500	500.500	500.500	500.413 500.375		498.690
GROUND HEIGHT	498.06	498.00	498.00	497.94	496.24	494.85	496.31	497.61 497.65		498.69
STATION	0-34.400	0-20.000	0-10.000	0+0.000	0+20.000	0+40.000	0+60.000	0+80.000 0+80.840		0+98.940
CURVE ELEMENT	R= ∞ L=133.340									
SUPER ELEVATION	2.000%									

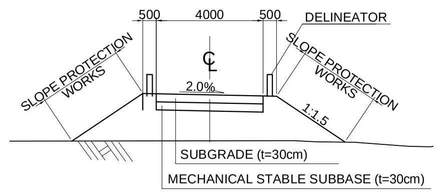
TYPICAL CROSS SECTION
S=1:200



PLAN S=1:500



APPROACH ROAD S=1:200

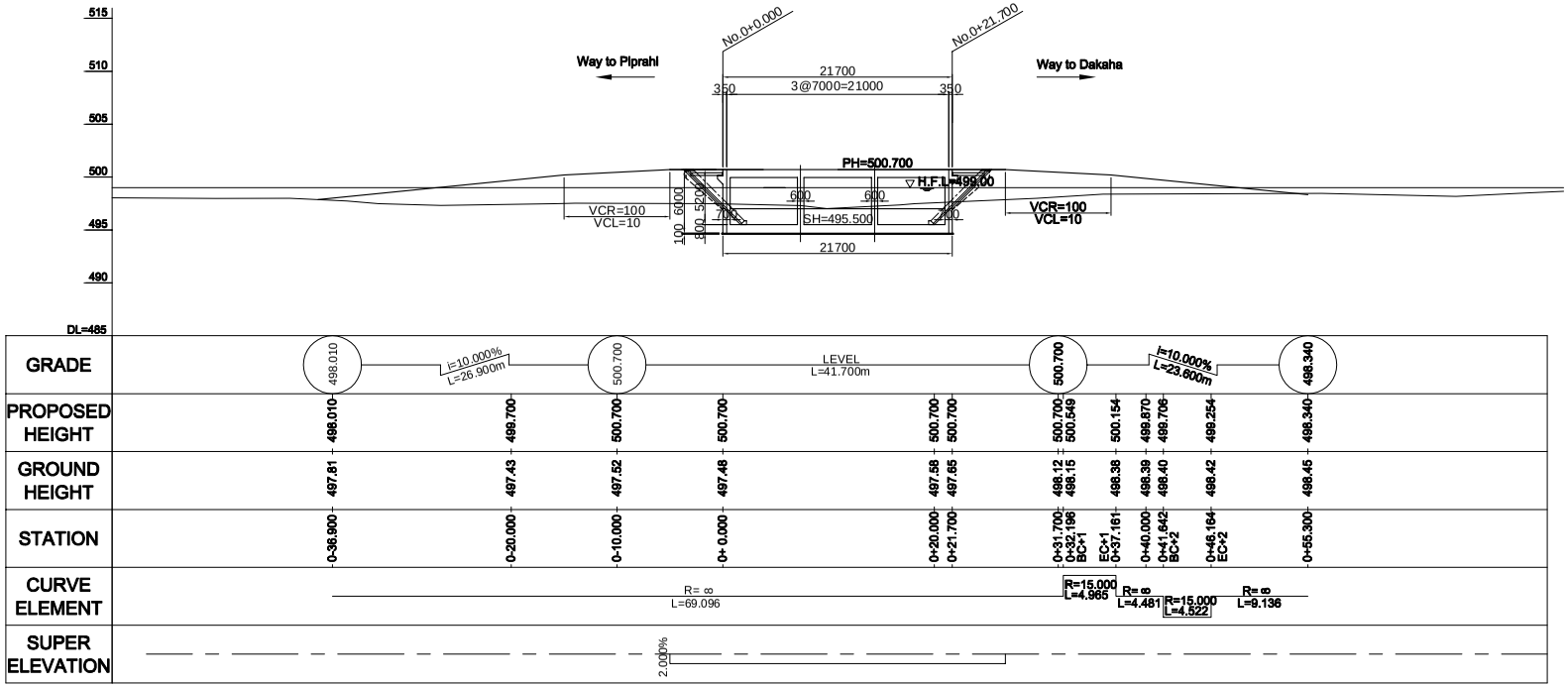


Note: The details around abutments including the lengths of L1, L2, L3 and L4 will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

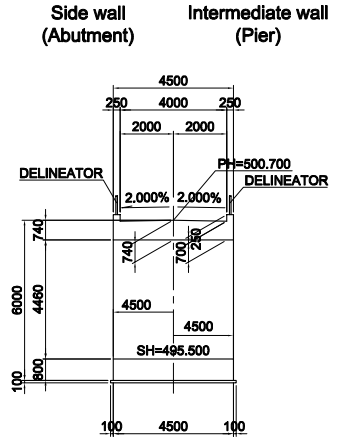
OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FORTHE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 6	DRAWING TITLE: 5-4 GENERAL VIEW OF THAKUR KHOLA-3 BRIDGE	PROVINCE	Sindhuli	SCALE: AS SHOWN	DRAWING NO: 16
			ROAD NAME	Dakaha-Sirthauli-Dudhauli-Katari		
			SITE NO.	5-4		
			RIVER NAME	THAKUR KHOLA-3		

5-3 GENERAL VIEW OF THAKUR KHOLA-2 BRIDGE

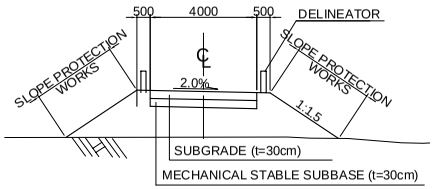
PROFILE S=1:500



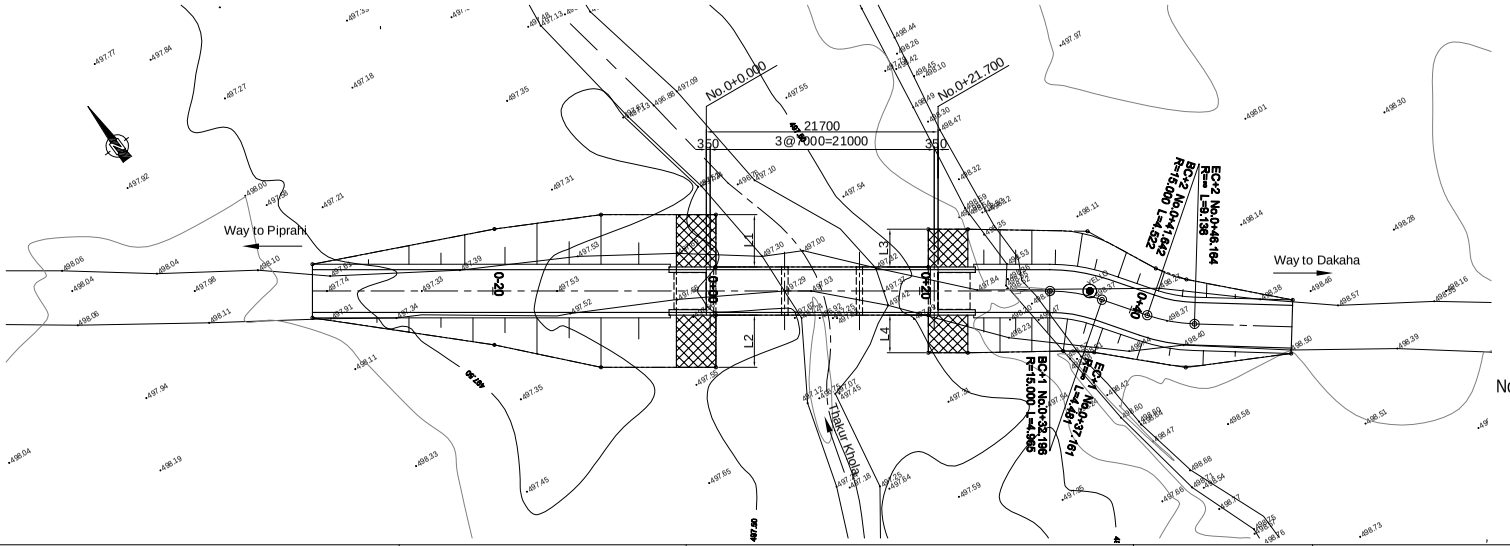
TYPICAL CROSS SECTION S=1:200



APPROACH ROAD S=1:200



PLAN S=1:500

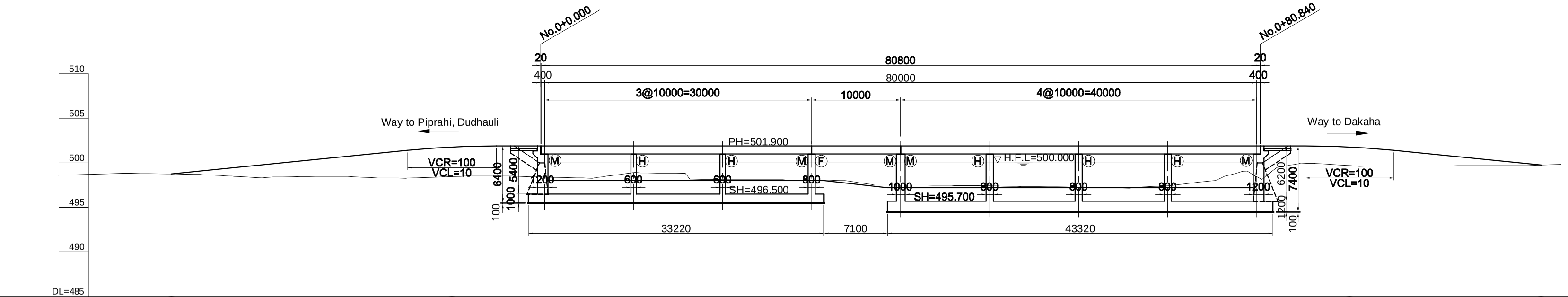


Note: The details around abutments including the lengths of L1, L2, L3 and L4 will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 6	DRAWING TITLE:	PROVINCE	Sindhuli	SCALE	DRAWING NO:
		5-3 GENERAL VIEW OF THAKUR KHOLA-2 BRIDGE	ROAD NAME	Dakaha-Sirthauli-Dudhauli-Katari	AS SHOWN	17
			SITE NO.	5-3		
			RIVER NAME	THAKUR KHOLA-2		

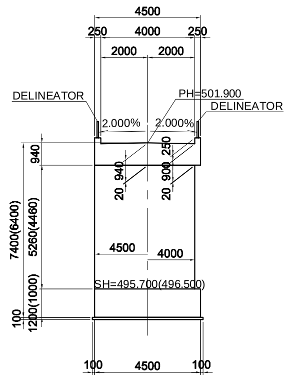
5-2 GENERAL VIEW OF THAKUR KHOLA-1 BRIDGE

PROFILE S=1:500

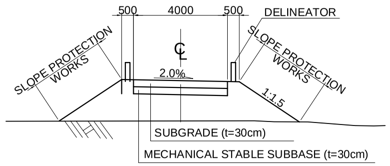


	0-41.500	0-40.000	BC-2	EC-1	0-20.000	BC-1	0-10.000	0+0.000	0+20.000	0+40.000	0+60.000	0+80.000	0+90.840	1+0.000	1+12.340
GRADE	498.750	i=10.000% L=31.500m					501.900	LEVEL L=100.840m					501.900	i=-10.000% L=21.500m	499.750
PROPOSED HEIGHT	498.750	498.900	499.690	500.290	500.900	501.572	501.775	501.900	501.900	501.900	501.900	501.900	501.775	500.984	499.750
GROUND HEIGHT	498.75	498.73	498.35	498.47	498.40	498.34	498.45	498.42	498.13	497.50	497.26	498.67	499.69	499.67	499.75
STATION	0-41.500	0-40.000	BC-2	EC-1	0-20.000	BC-1	0-10.000	0+0.000	0+20.000	0+40.000	0+60.000	0+80.000	0+90.840	1+0.000	1+12.340
CURVE ELEMENT	R=30.000 L=9.400		R=∞ L=6.000	R=15.000 L=13.000		R=∞ L=125.440									
SUPER ELEVATION	2.000%														

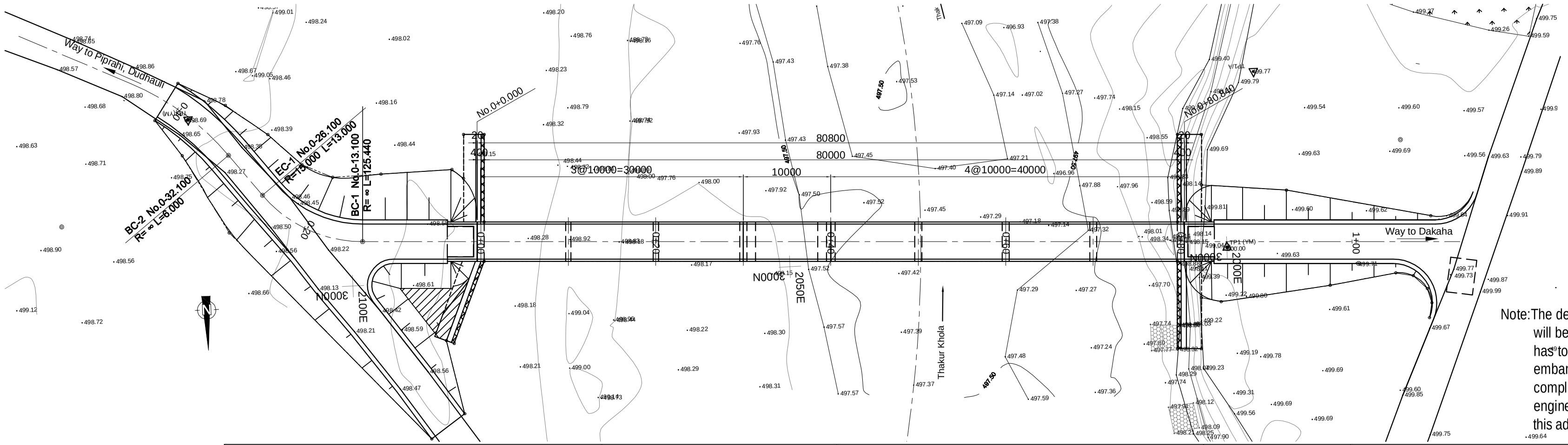
TYPICAL CROSS SECTION S=1:200



APPROACH ROAD S=1:200



PLAN S=1:500

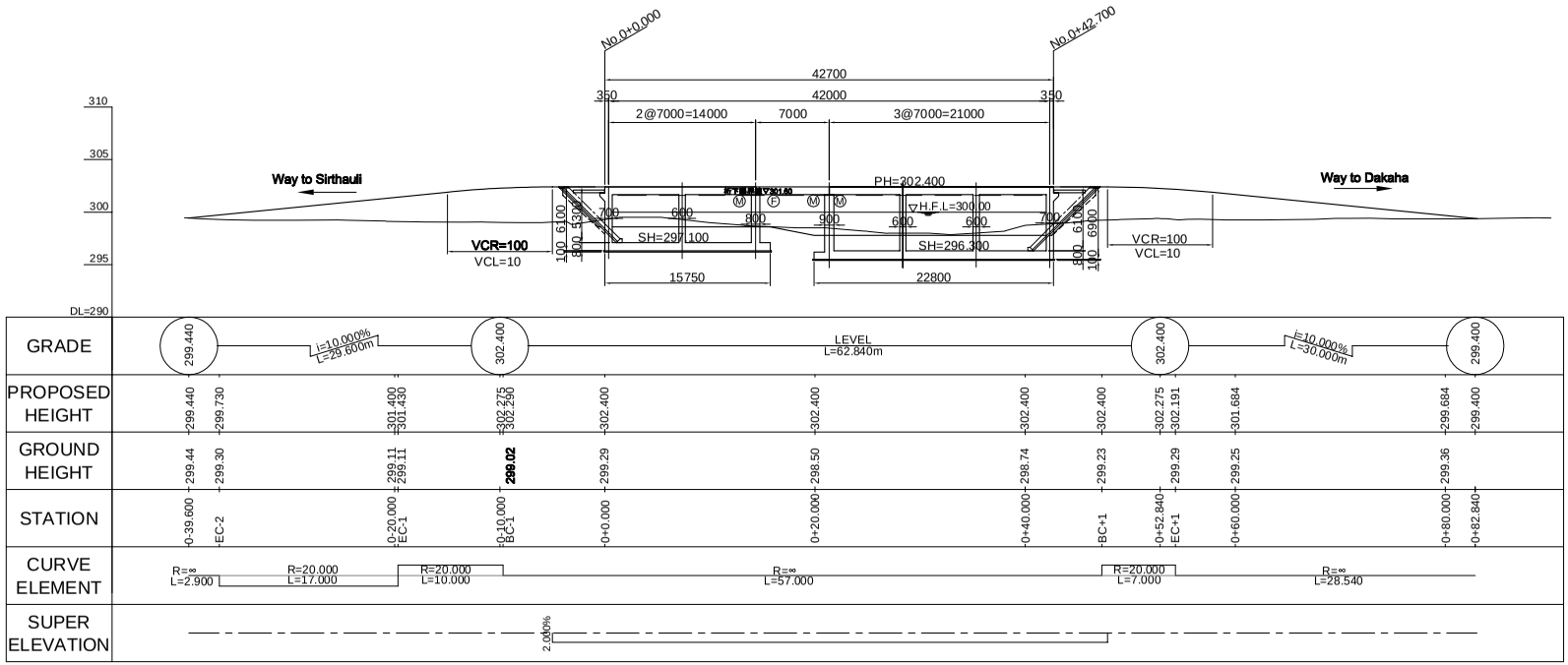


Note: The details around abutments including the lengths will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 6	DRAWING TITLE: 5-2 GENERAL VIEW OF THAKUR KHOLA-1 BRIDGE	PROVINCE	Sindhuli	SCALE	DRAWING NO:
			ROAD NAME	Dakaha-Sirthauli-Dudhauli-Katari	AS SHOWN	18
			SITE NO.	5-2		
			RIVER NAME	THAKUR KHOLA-1		

5-1 GENERAL VIEW OF TAMORNI KHOLA BRIDGE

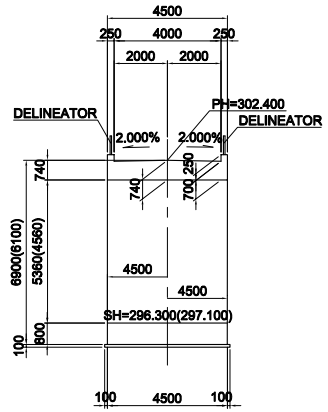
PROFILE S=1:500



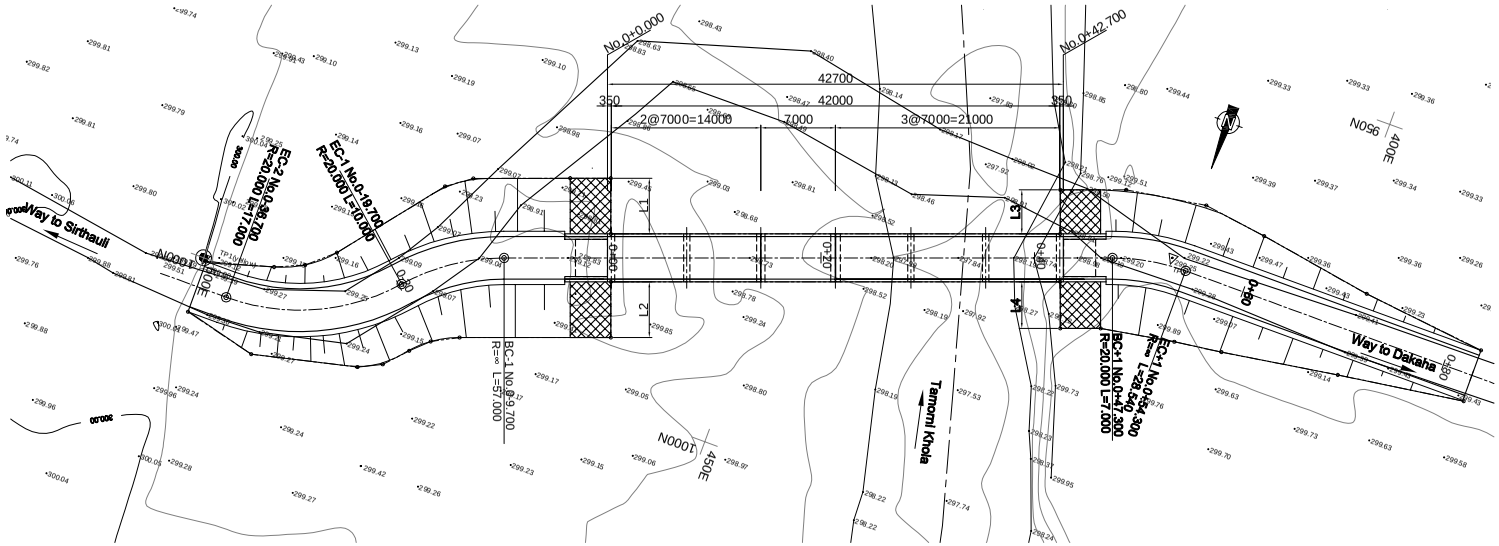
TYPICAL CROSS SECTION

S=1:200

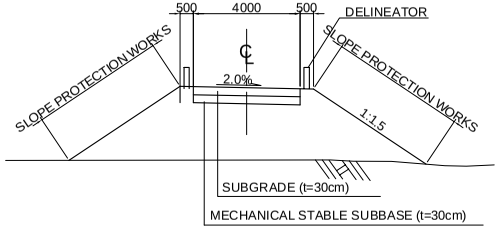
Side wall (Abutment) **Intermediate wall (Pier)**



PLAN S=1:500



APPROACH ROAD S=1:200

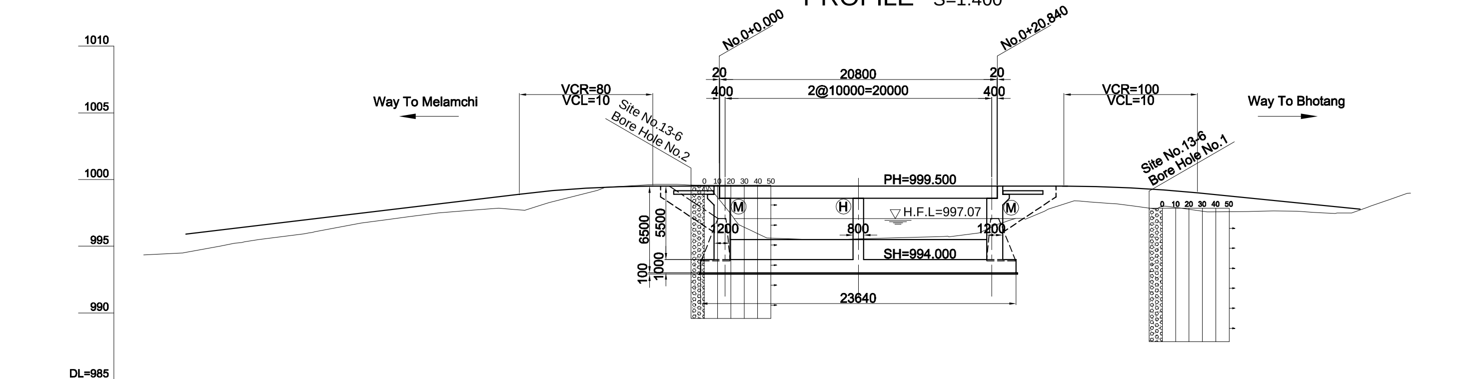


Note: The details around abutments including the lengths of L1, L2, L3 and L4 will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 6	DRAWING TITLE:	PROVINCE	Sindhuli	SCALE		DRAWING NO:
		5-1 GENERAL VIEW OF TAMORNI KHOLA BRIDGE	ROAD NAME	Dakaha-Sirthauli-Dudhauli-Katari	AS SHOWN		19
			SITE NO.	5-1			
			RIVER NAME	TAMORNI KHOLA			

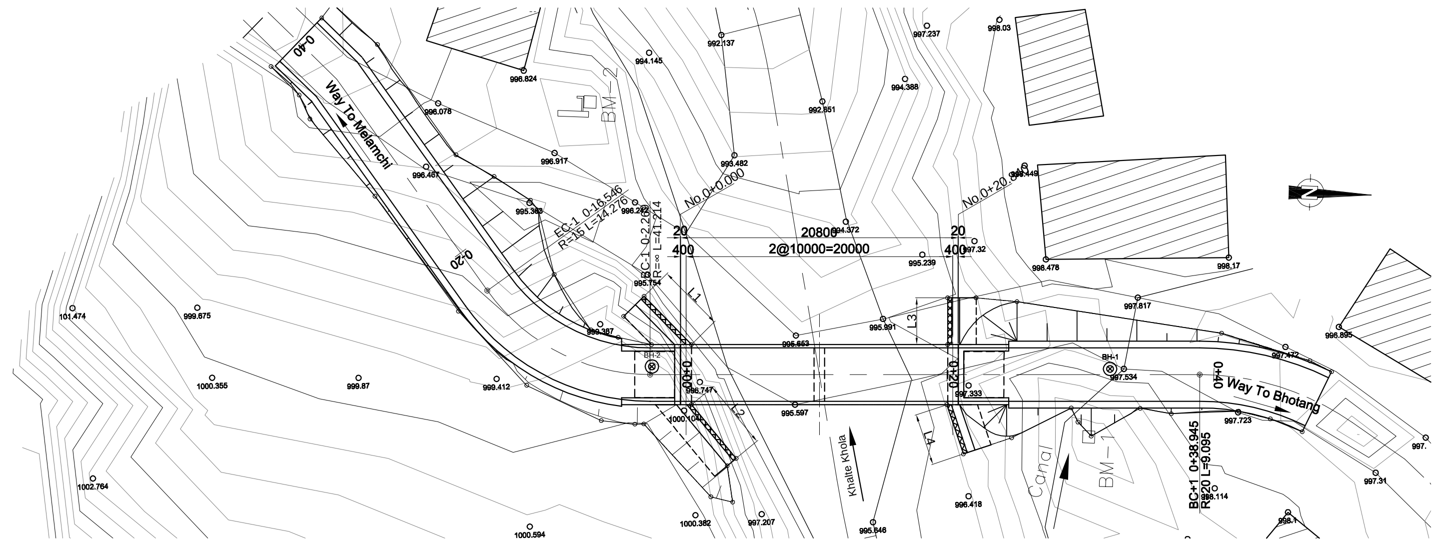
13-6 GENERAL VIEW OF KHALTE KHOLA BRIDGE

PROFILE S=1:400

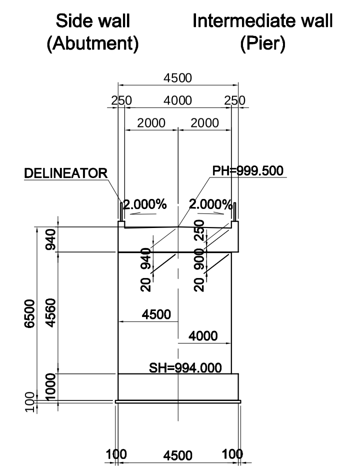


GRADE	995.900	i=12.000% L=30.000m		999.500		LEVEL L=40.840m		999.500	i=10.000% L=17.200m		997.780
PROPOSED HEIGHT	995.900	998.300	998.714	999.350	999.500	999.500	999.500	999.375	998.690	998.584	997.780
GROUND HEIGHT	994.54	997.58				998.49	996.24			997.61	997.71
STATION	0-40.000	0-20.000	EC-1	0-10.000	BC-1	0+0.000	0+20.000	0+30.840	BC+1	0+40.000	0+48.040
CURVE ELEMENT	R=∞ L=23.454		R=15.000 L=14.276			R=∞ L=41.214			R=20.000 L=9.095		
SUPER ELEVATION					2.000%						

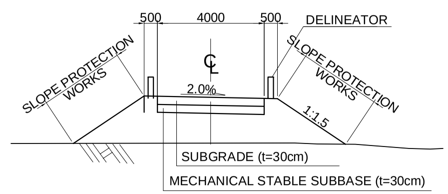
PLAN S=1:400



TYPICAL CROSS SECTION S=1:200



APPROACH ROAD S=1:200



Note: The details around abutments including the lengths of L1, L2, L3 and L4 will be determined based on the actual site condition. The contractor has to prepare the shop drawings for the shape and dimension of embankment slopes, retaining walls and other structures necessary to complete the works based on the site condition for approval of the engineer. No claim except adjustment of quantities shall be made by this adjustment.

OUTLINE DESIGN OF RIVER CROSSING STRUCTURES	THE PROJECT FOR THE IMPROVEMENT OF COMMUNITY ACCESS IN NEPAL LOT - 7	DRAWING TITLE: 13-6 GENERAL VIEW OF KHALTE KHOLA BRIDGE	PROVINCE	Sindhupalchowk	SCALE: AS SHOWN	DRAWING NO: 20
			ROAD NAME	Melamchi-Bhotang		
			SITE NO.	13-6		
			RIVER NAME	KHALTE KHOLA		