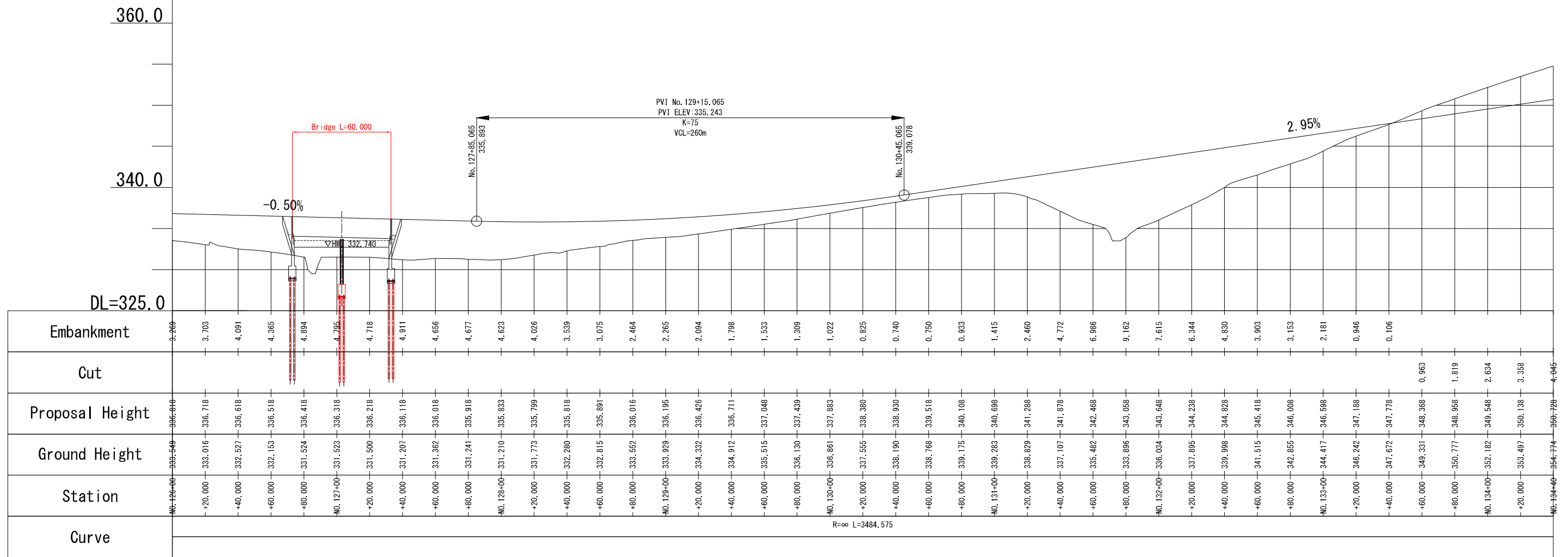
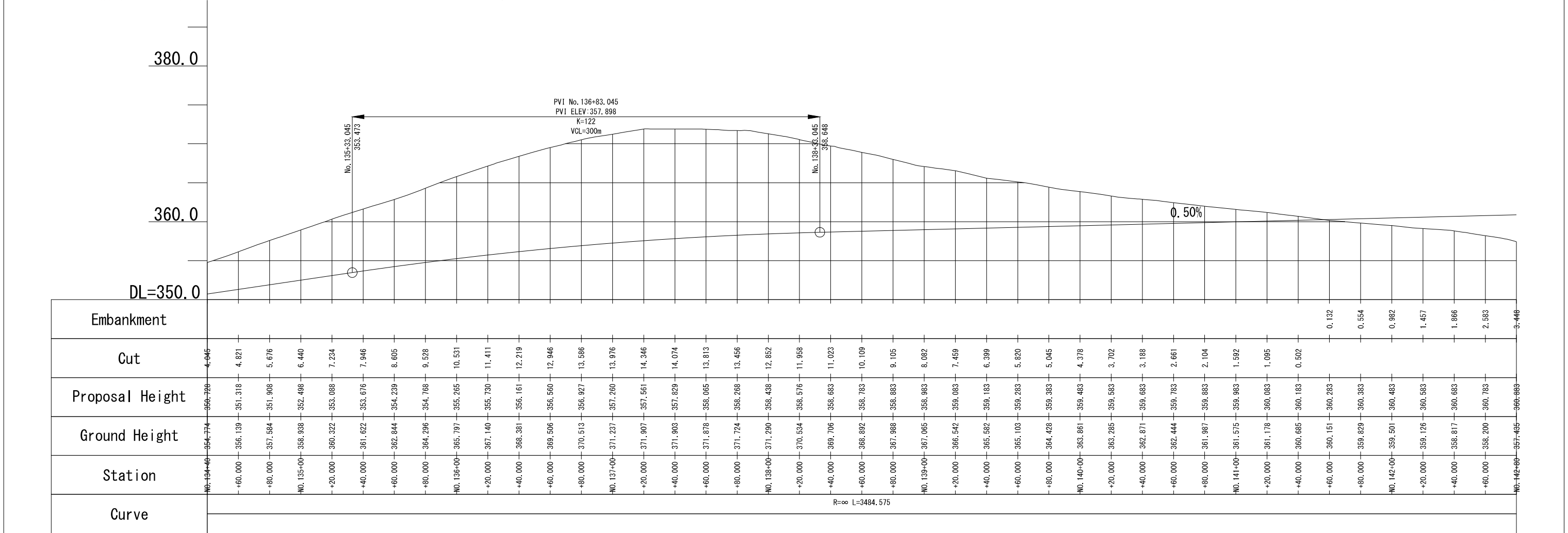


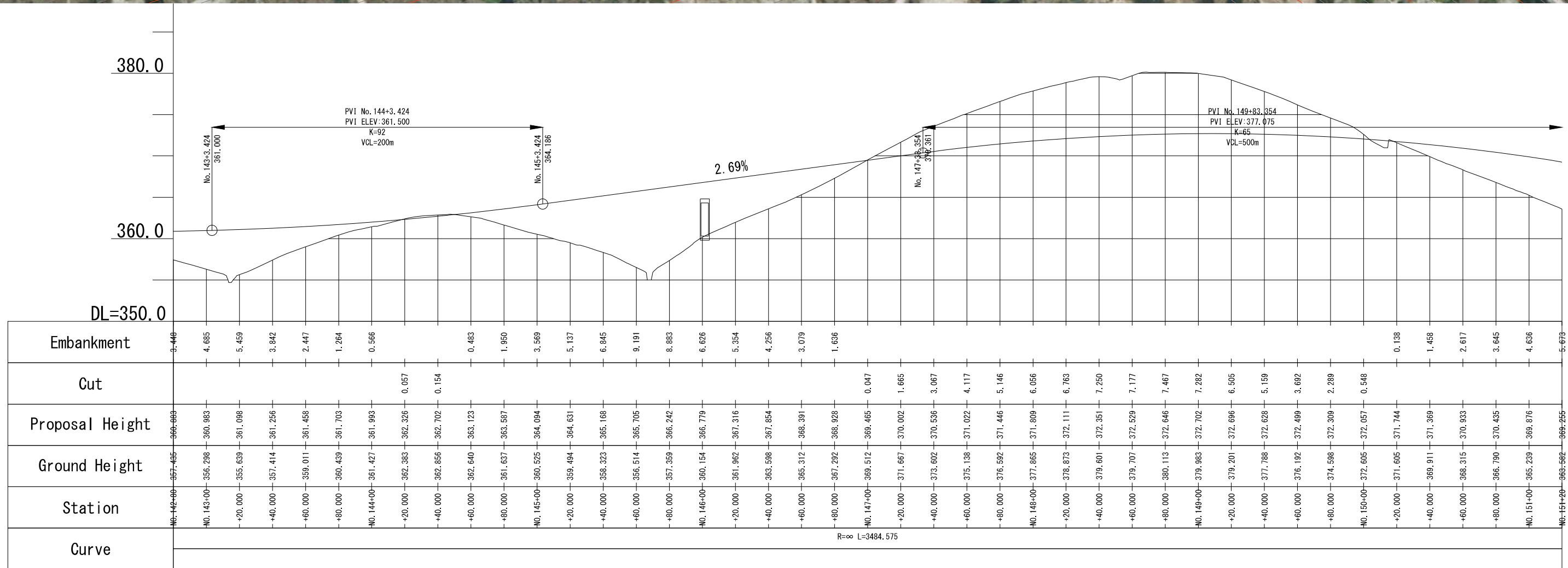
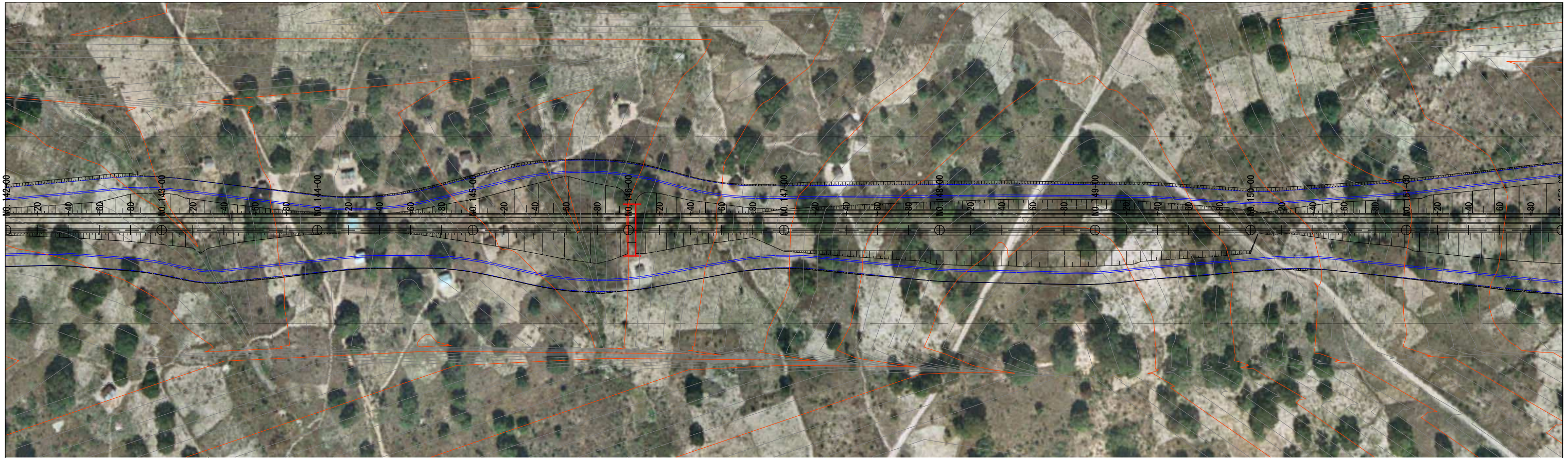
Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
		NAME				SCALE	SHEET NO.	DRAWING NO.	REV. NO.
		SIGNATURE				1/2500		C-16	
		DATE							





Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
		NAME				SCALE	SHEET NO.	DRAWING NO.	REV. NO.
		DATE				1/2500		C-17	



Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
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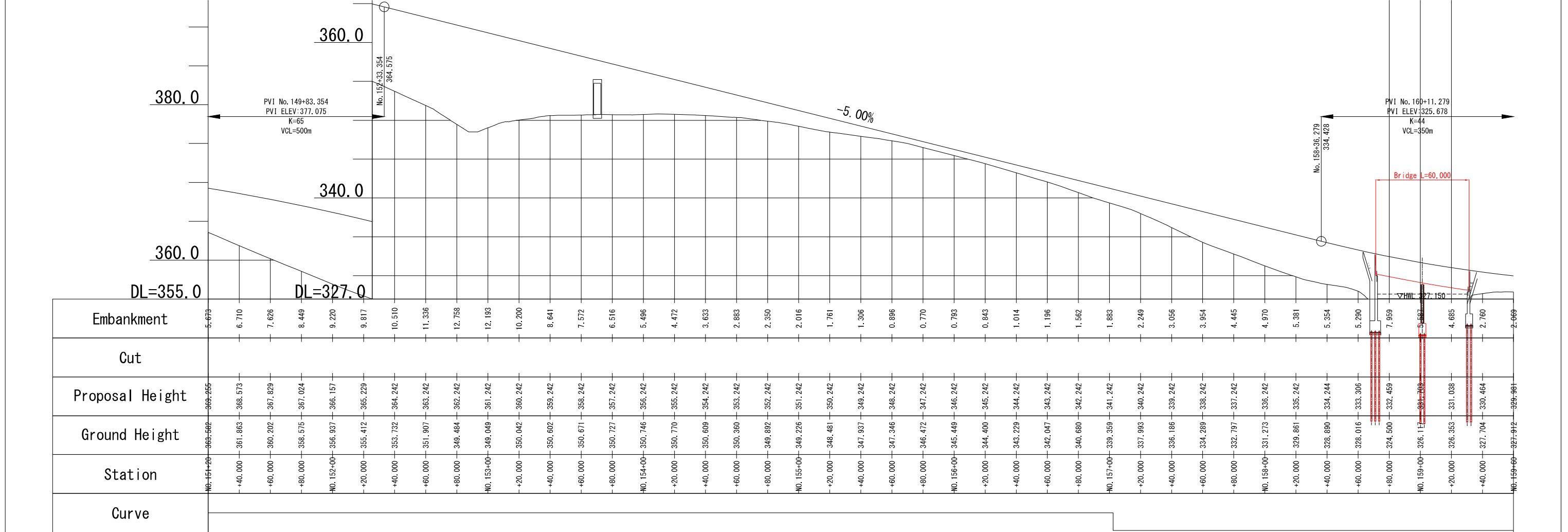
 Japan International Cooperation Agency  
 National Road Administration (ANE)

 Oriental Consultants Global Co., Ltd.  
 Eight-Japan Engineering Consultants Inc.  
 Kokusai Kogyo Co., Ltd.

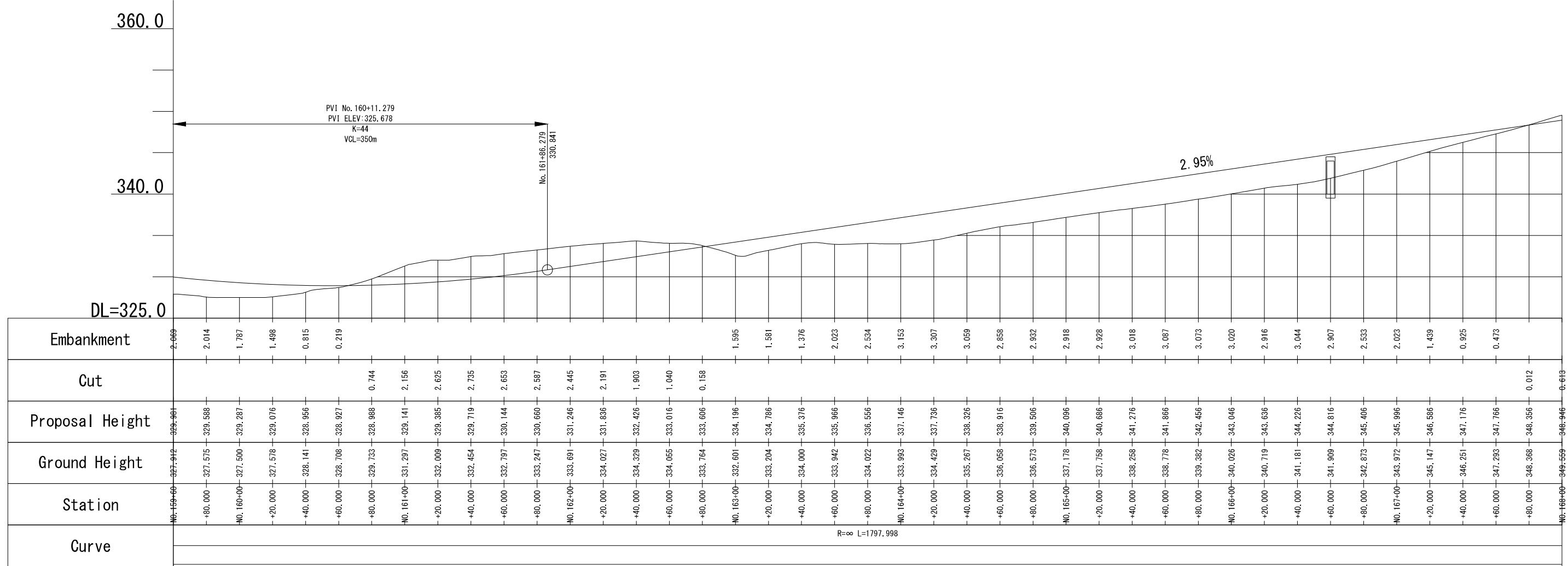
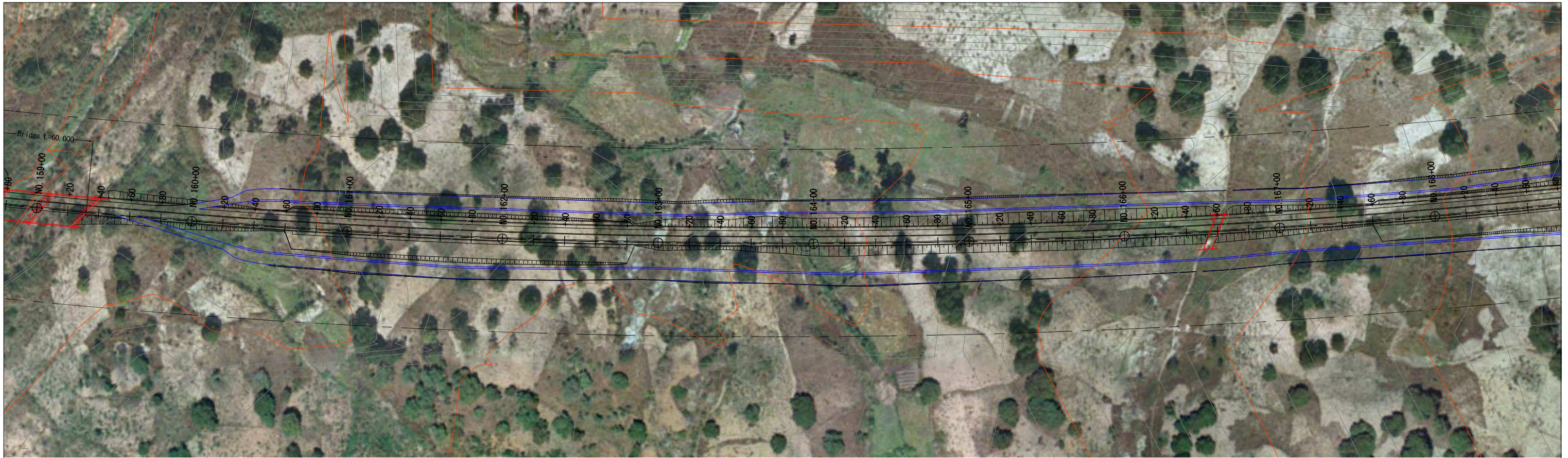
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SIGNATURE			
DATE			

PROJECT TITLE:  
**Preparatory Survey for Nacala Corridor  
 Road Network Upgrading Project  
 (Nampula Southern Bypass Road)**

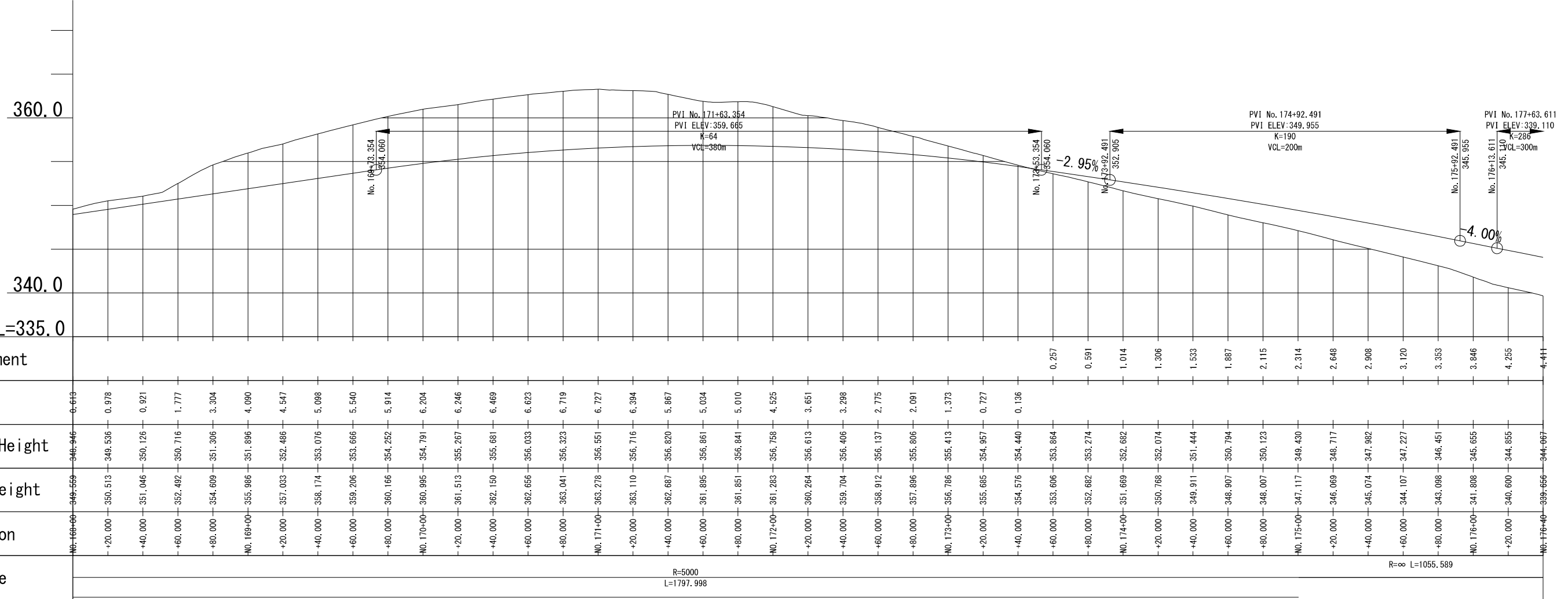
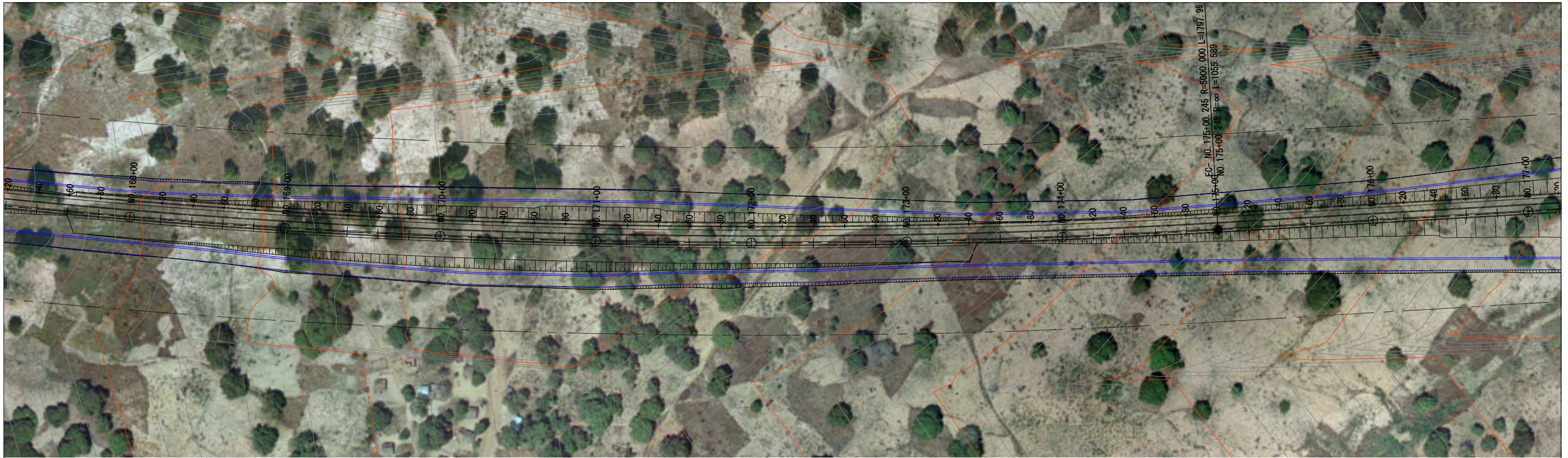
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1/2500		C-19	



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		DATE							



Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
		NAME				SCALE: 1/2500	SHEET NO.:	DRAWING NO.:	REV. NO.:
		SIGNATURE							
		DATE							



Japan International Cooperation Agency  
 National Road Administration (ANE)

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 Eight-Japan Engineering Consultants Inc.  
 Kokusai Kogyo Co., Ltd.

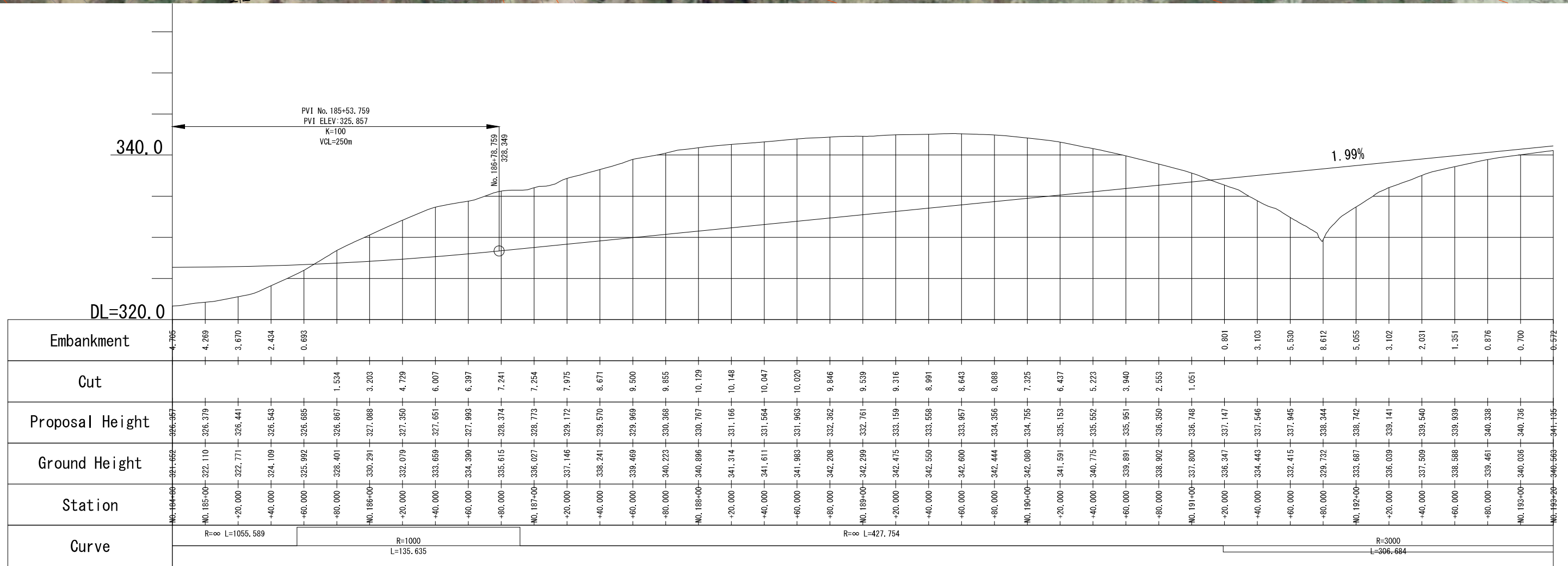
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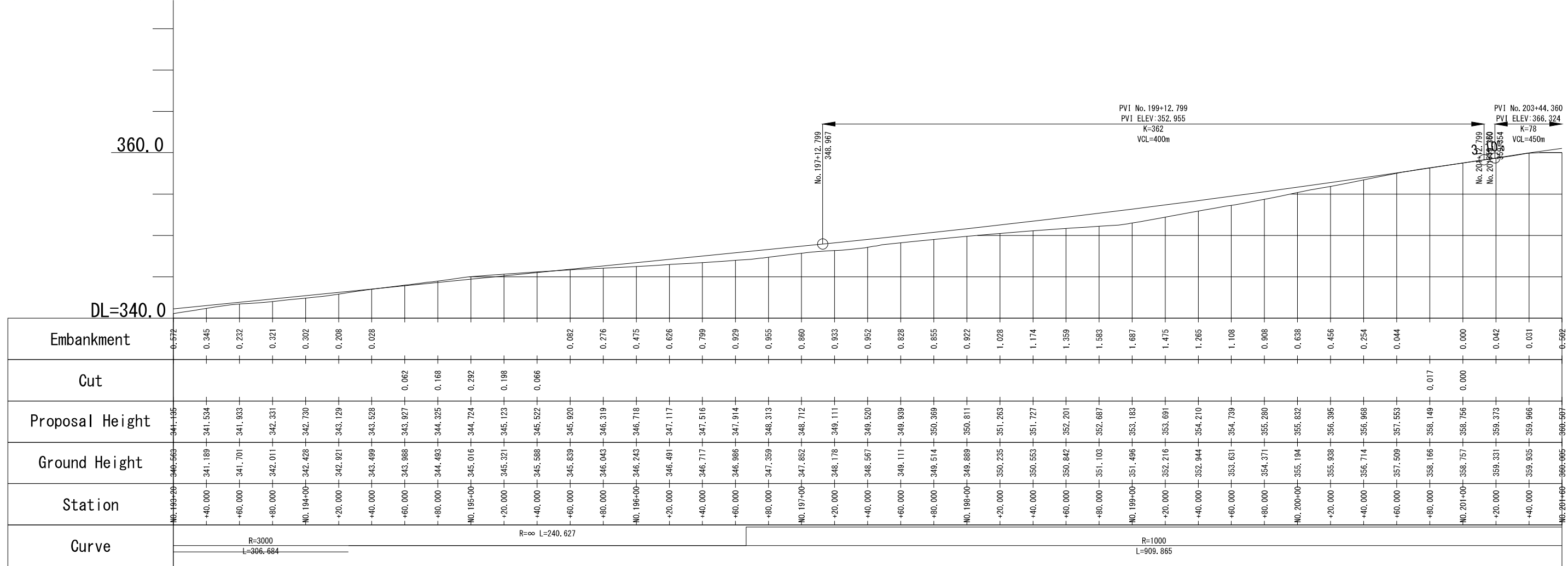
PROJECT TITLE:  
**Preparatory Survey for Nacala Corridor  
 Road Network Upgrading Project  
 (Nampula Southern Bypass Road)**

DRAWING TITLE: Basic Option (Initial Stage) Plan and Profile			
SCALE	SHEET NO.	DRAWING NO.	REV. NO.
1/2500		C-22	

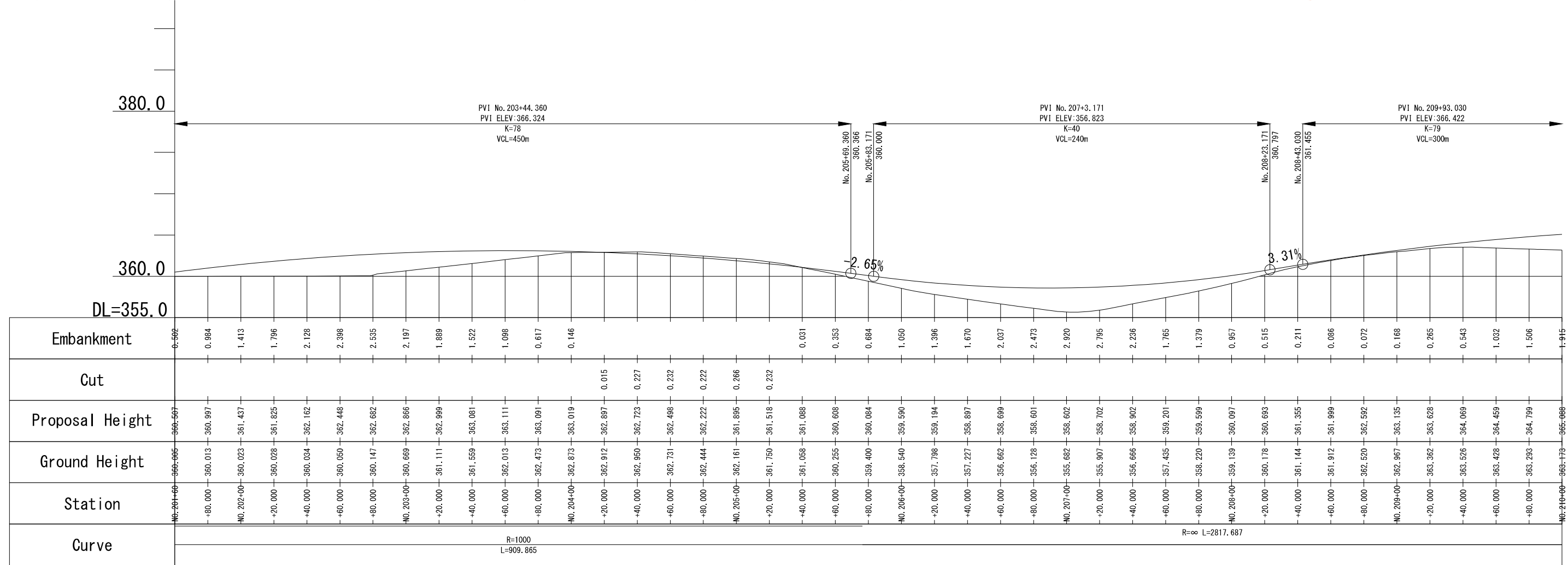




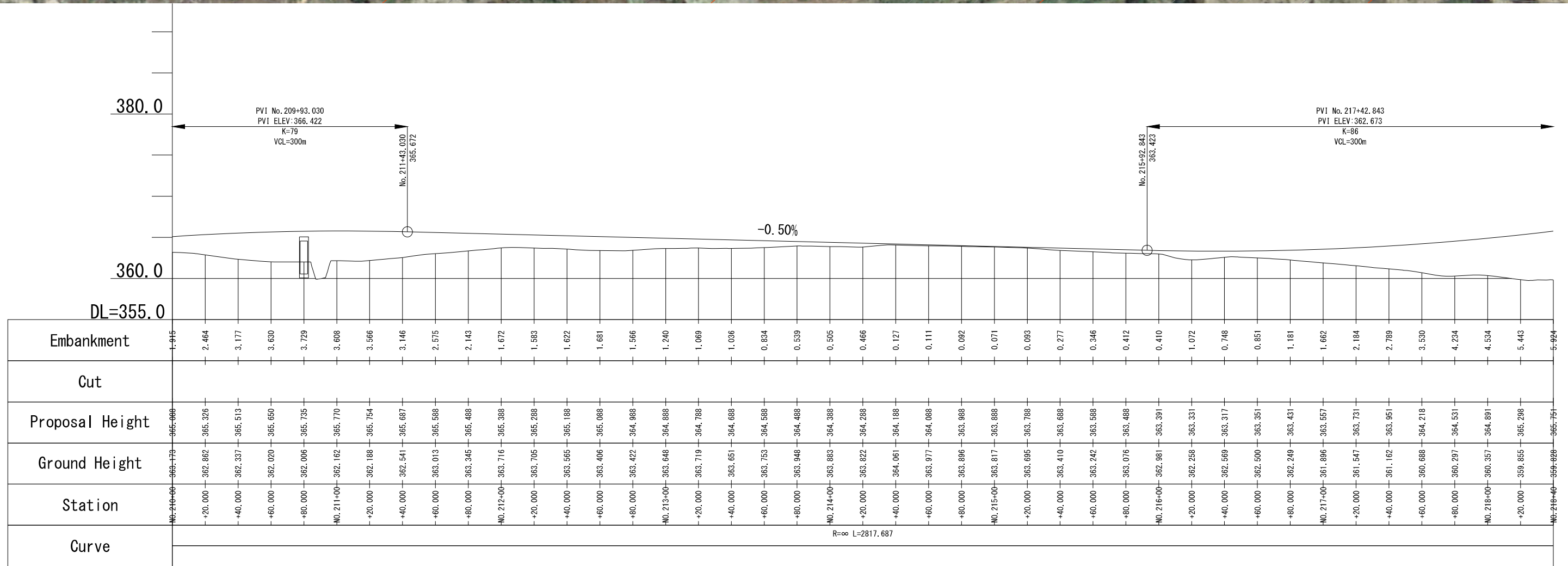




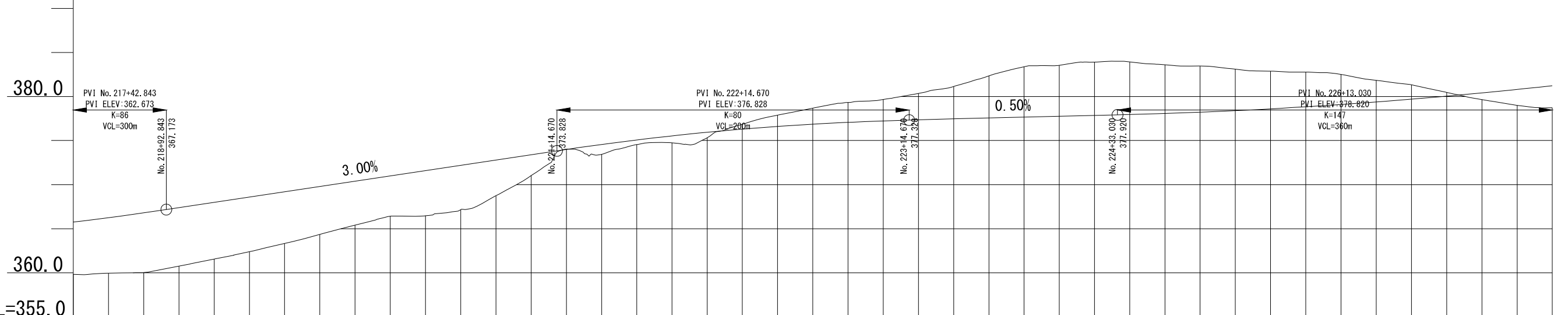
	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
		NAME				SCALE: 1/2500	SHEET NO.	DRAWING NO. C-25	REV. NO.
		SIGNATURE							
		DATE							



Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
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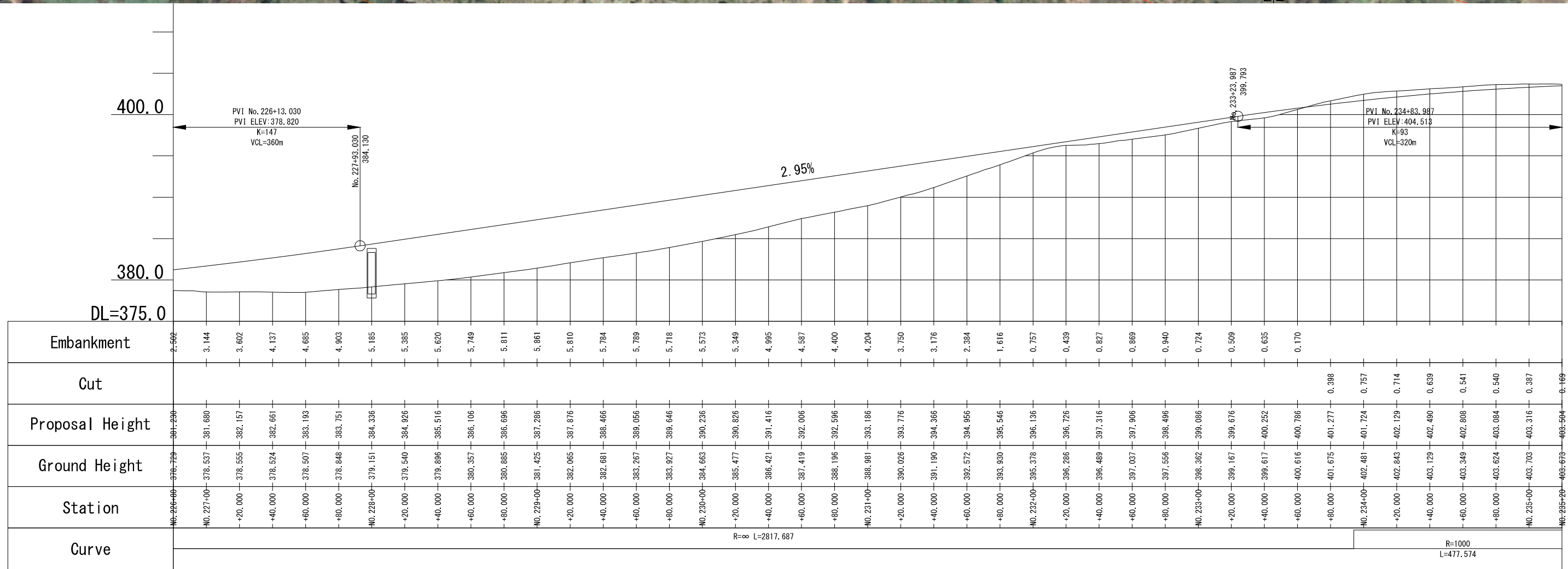


Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
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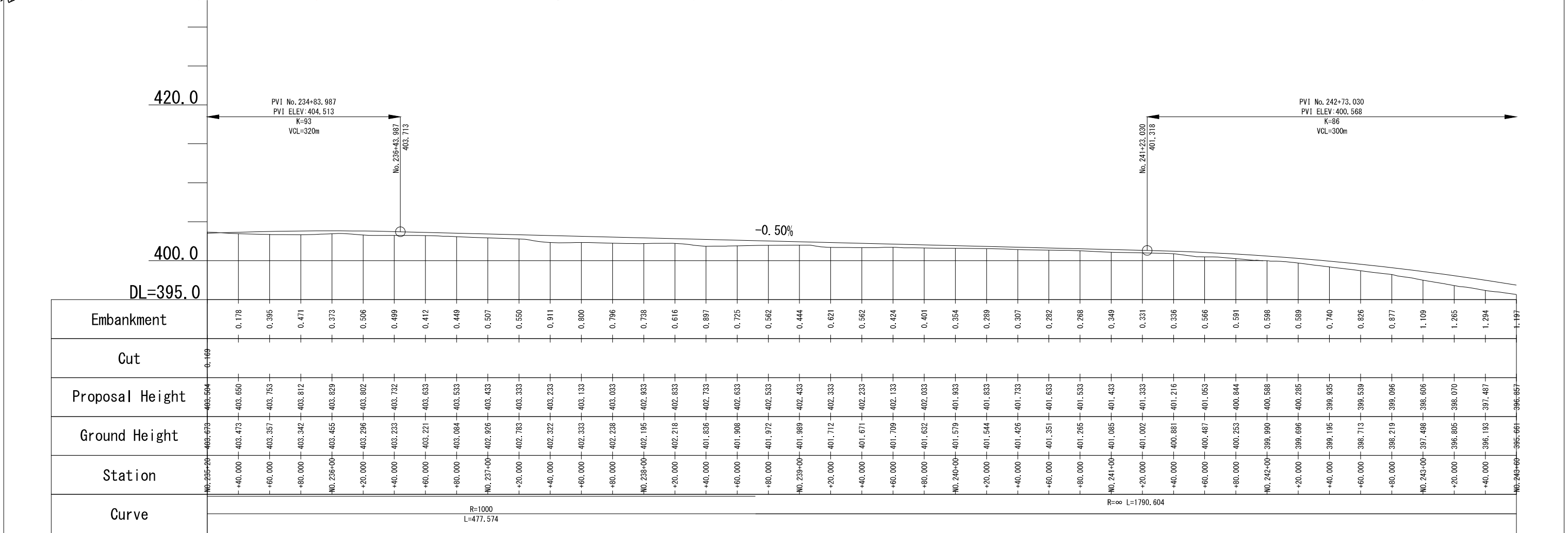


Station	Ground Height	Proposal Height	Cut	Embankment
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-60,000	359.964	366.251		6.287
-80,000	360.030	366.788		6.768
No. 219+00	360.759	367.388		6.629
+20,000	361.556	367.988		6.432
+40,000	362.392	368.588		6.196
+60,000	363.331	369.188		5.857
+80,000	364.349	369.788		5.439
No. 220+00	365.405	370.388		4.983
+20,000	366.415	370.988		4.573
+40,000	366.472	371.588		5.116
+60,000	367.149	372.188		5.039
+80,000	368.729	372.788		4.060
No. 221+00	371.028	373.388		2.360
+20,000	374.017	373.986	0.030	
+40,000	373.429	374.548		1.119
+60,000	374.539	375.060		0.521
+80,000	374.739	375.521		0.783
No. 222+00	375.322	375.933		0.611
+20,000	376.863	376.295	0.568	
+40,000	377.893	376.606	1.287	
+60,000	378.682	376.868	1.814	
+80,000	379.329	377.080	2.249	
No. 223+00	379.667	377.241	2.426	
+20,000	380.361	377.355	3.006	
+40,000	381.153	377.465	3.698	
+60,000	382.343	377.555	4.788	
+80,000	383.382	377.655	5.728	
No. 224+00	383.535	377.755	5.780	
+20,000	383.911	377.855	6.056	
+40,000	383.920	377.957	5.963	
+60,000	383.601	378.080	5.522	
+80,000	383.459	378.230	5.229	
No. 225+00	383.101	378.407	4.694	
+20,000	382.883	378.612	4.271	
+40,000	382.771	378.844	3.926	
+60,000	382.515	379.103	3.411	
+80,000	381.835	379.390	2.445	
No. 226+00	381.334	379.704	1.630	
+20,000	380.466	380.044	0.421	
+40,000	379.665	380.413		0.748
+60,000	378.995	380.808		1.812
No. 227+00	378.729	381.296		2.502

Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
		NAME				SCALE: 1/2500	SHEET NO.	DRAWING NO. C-28	REV. NO.



Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
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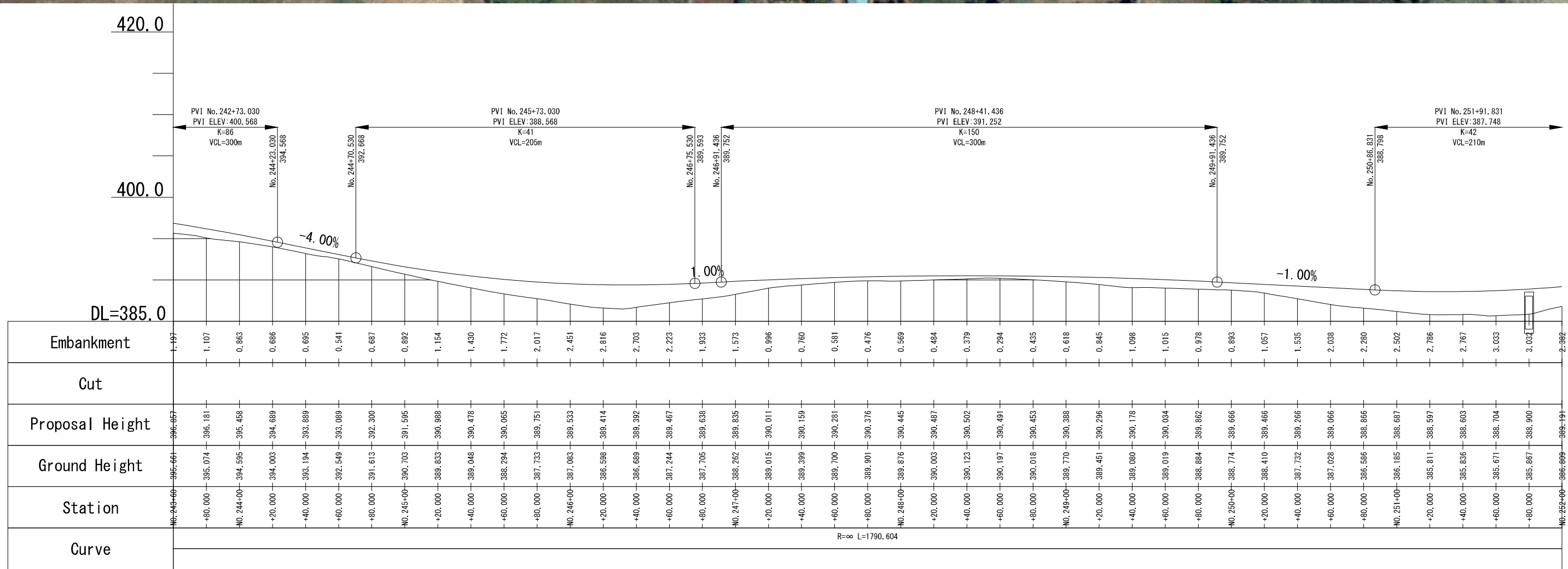
Japan International Cooperation Agency  
 National Road Administration (ANE)

Oriental Consultants Global Co., Ltd.  
 Eight-Japan Engineering Consultants Inc.  
 Kokusai Kogyo Co., Ltd.

NAME	PREPARED BY	CHECKED BY	APPROVED BY
SIGNATURE			
DATE			

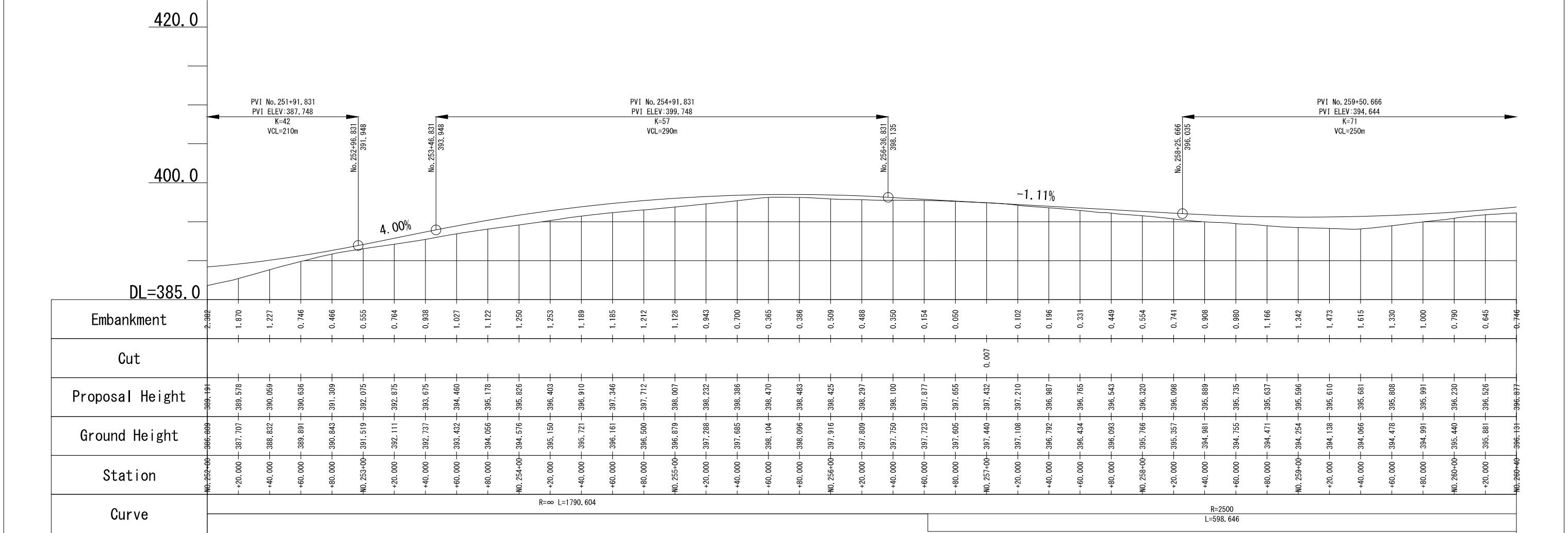
PROJECT TITLE:  
**Preparatory Survey for Nacala Corridor  
 Road Network Upgrading Project  
 (Nampula Southern Bypass Road)**

DRAWING TITLE: Basic Option (Initial Stage) Plan and Profile			
SCALE	SHEET NO.	DRAWING NO.	REV. NO.
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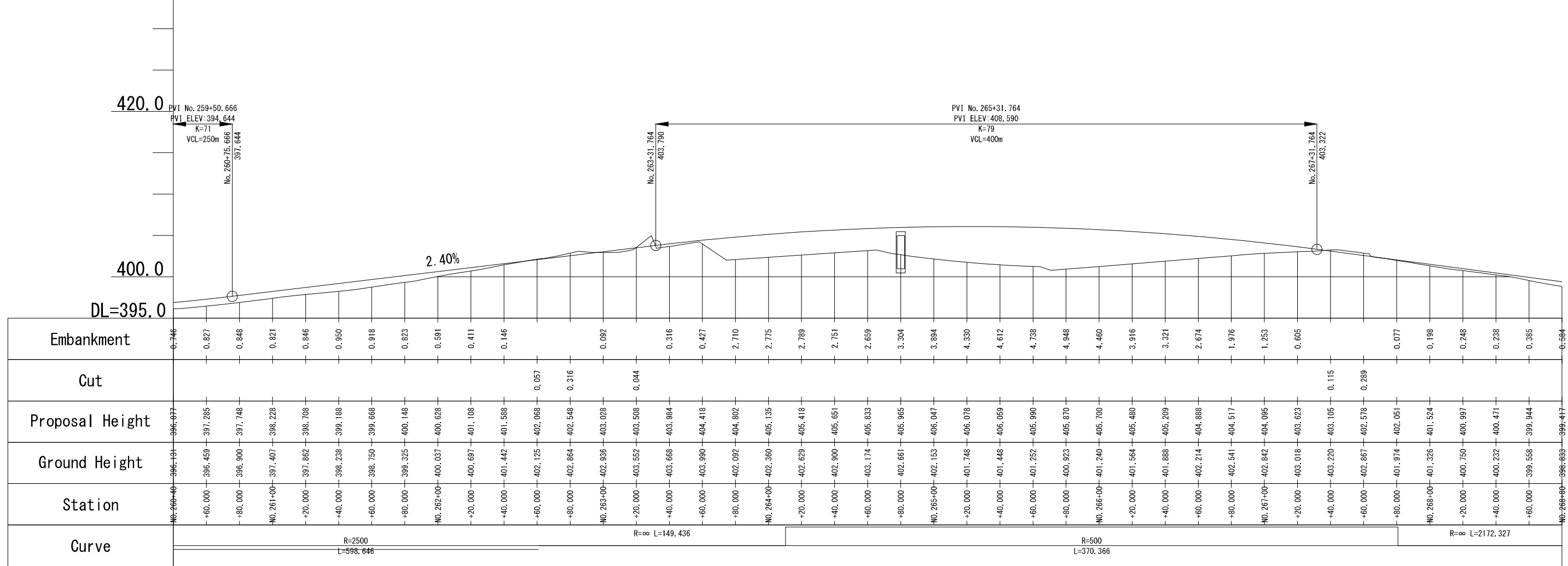
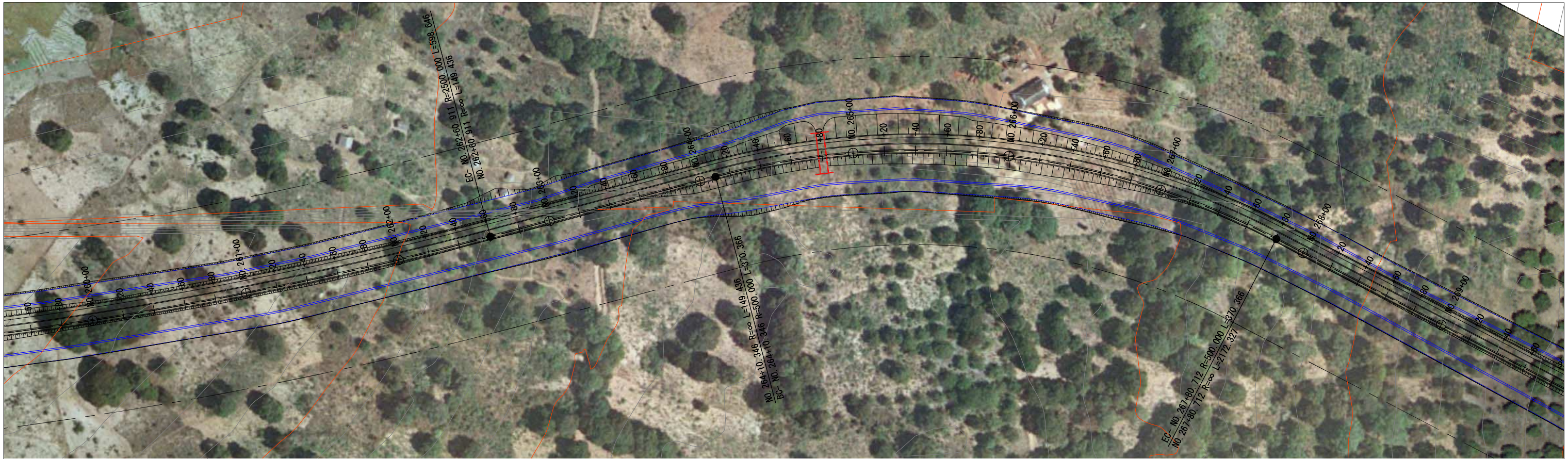


Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
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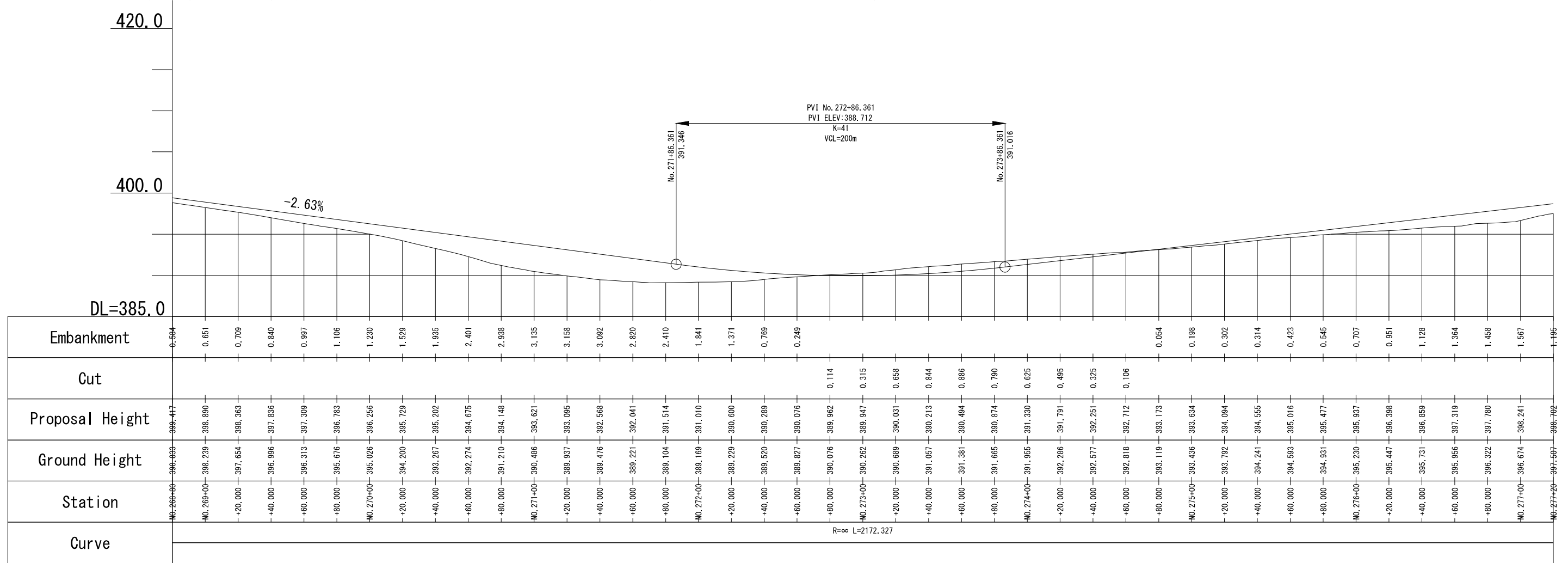




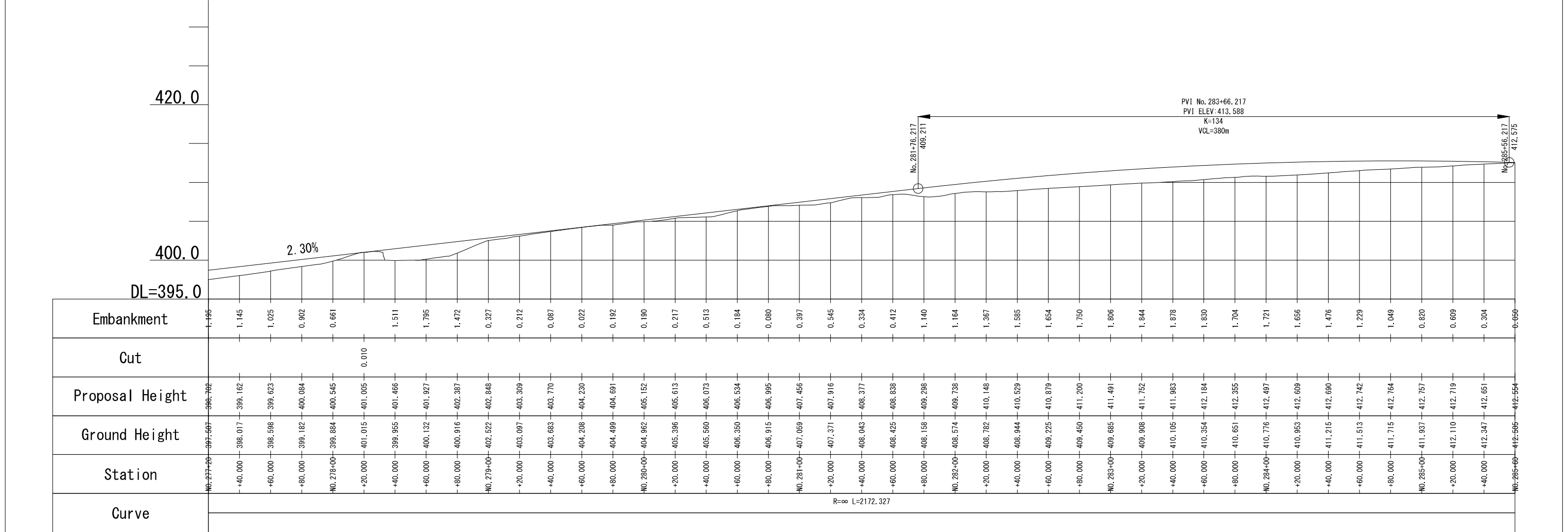
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		SIGNATURE				1/2500		C-32	
		DATE							



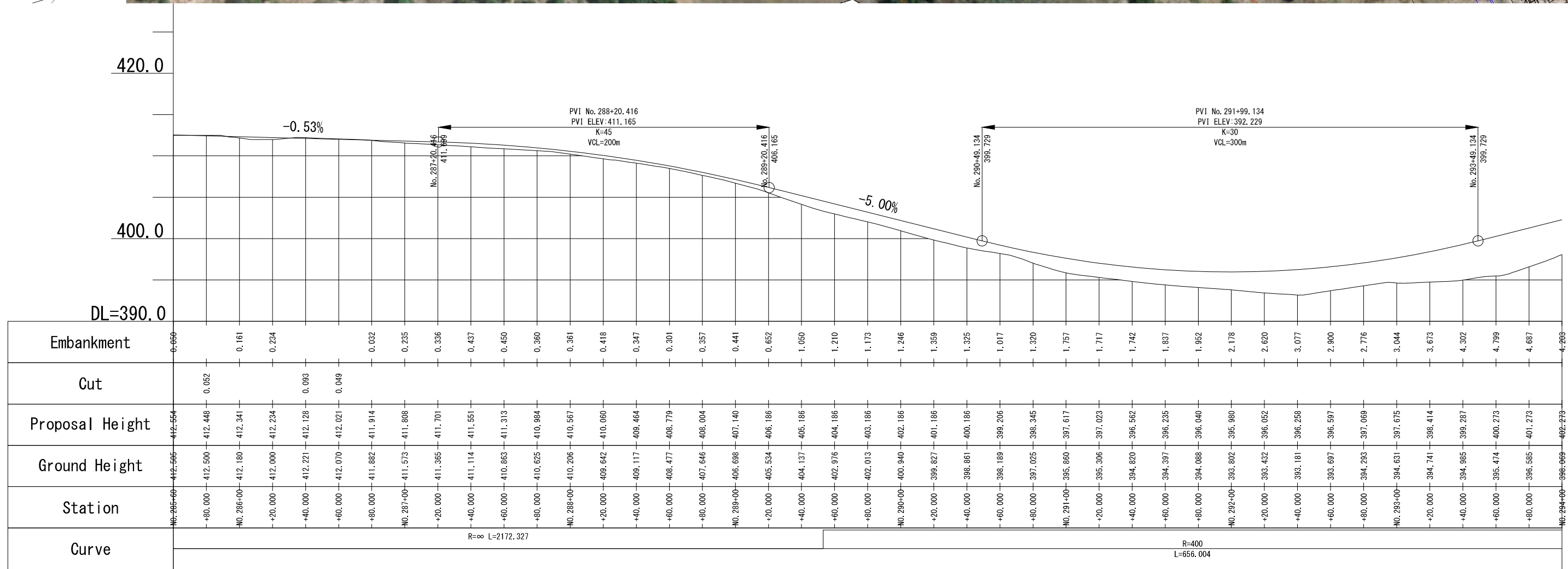
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		SIGNATURE			1/2500		C-33		
		DATE							



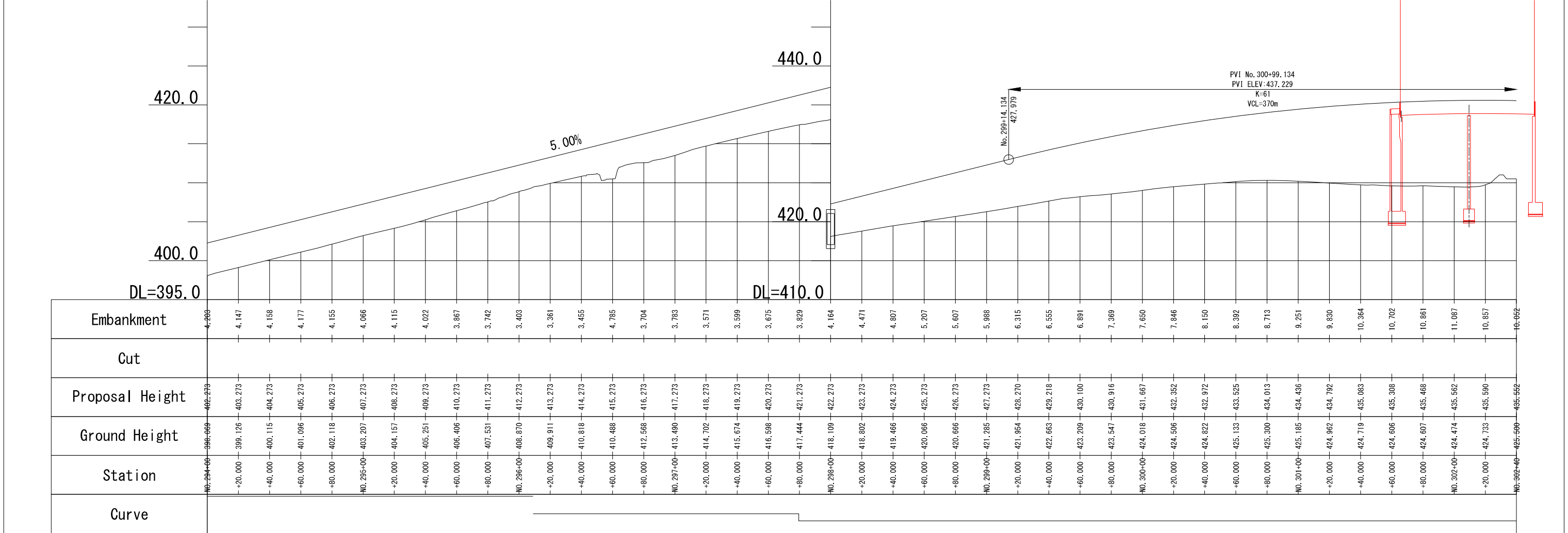
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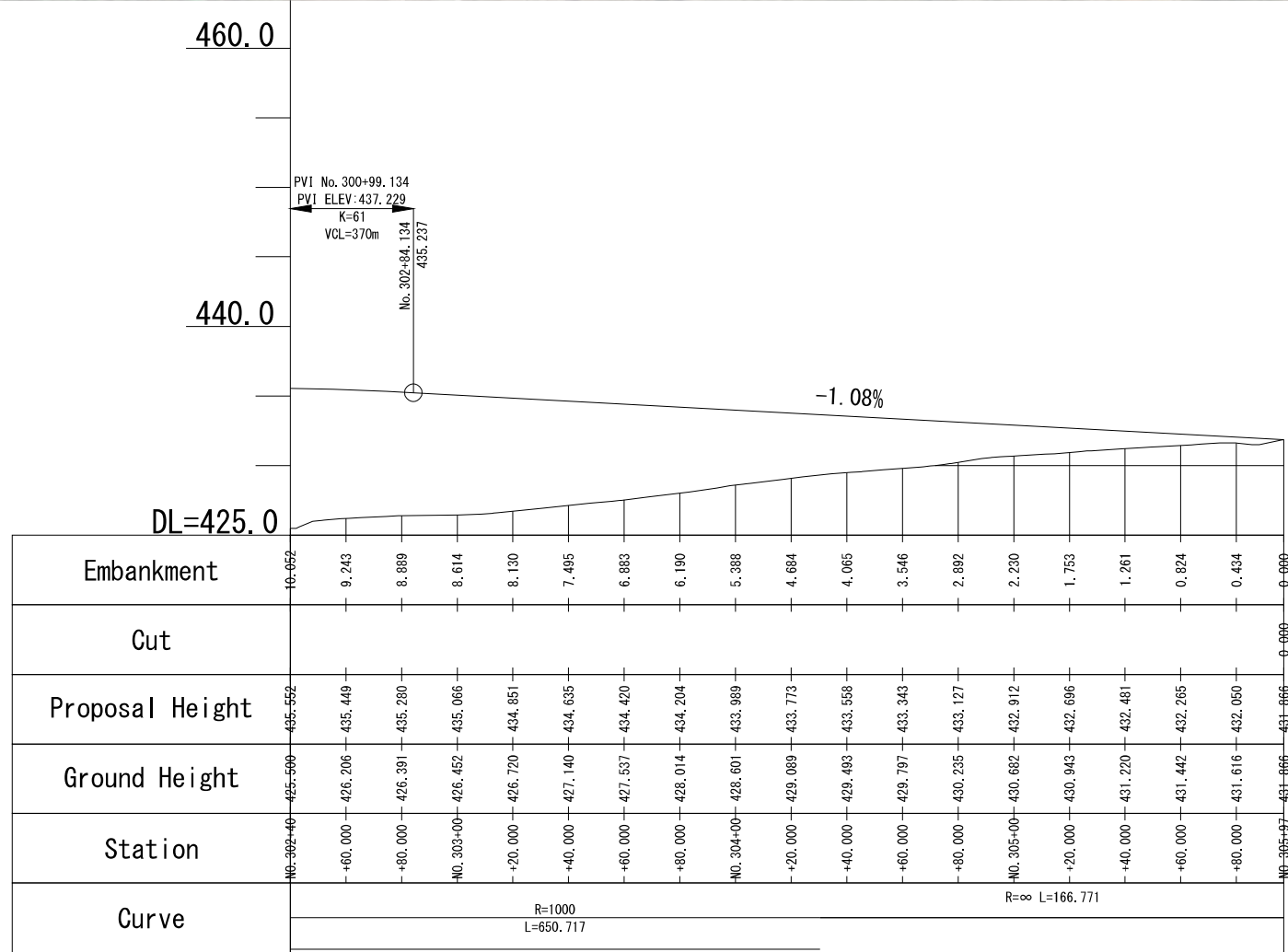
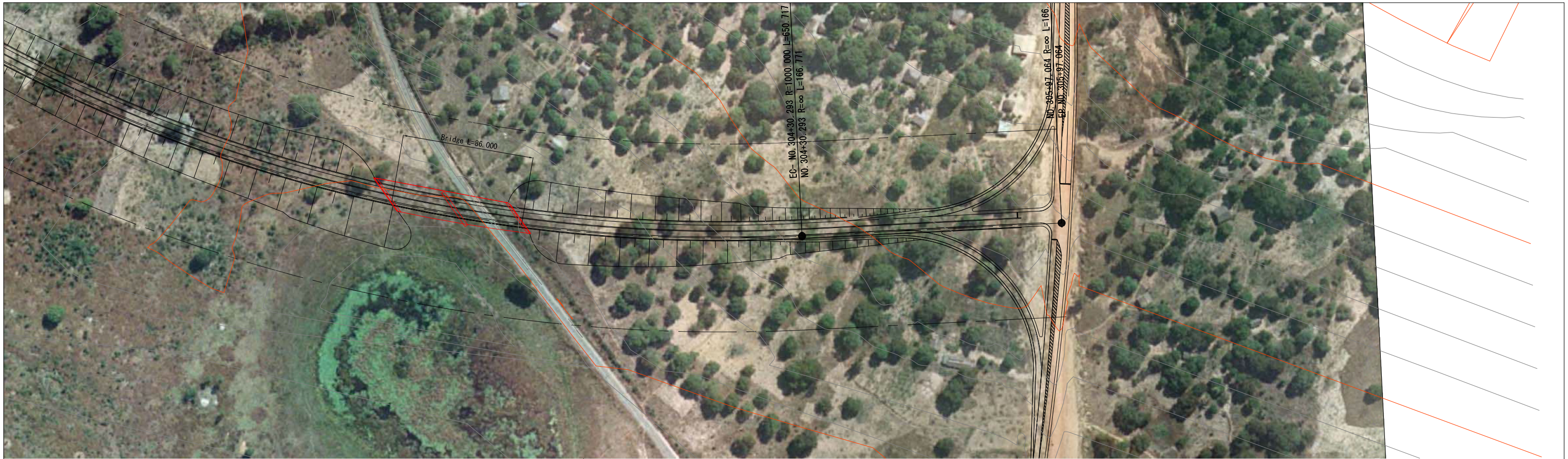
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Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
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Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor          Road Network Upgrading Project          (Nampula Southern Bypass Road)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage) Plan and Profile</b>			
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Japan International Cooperation Agency  
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 Kokusai Kogyo Co., Ltd.

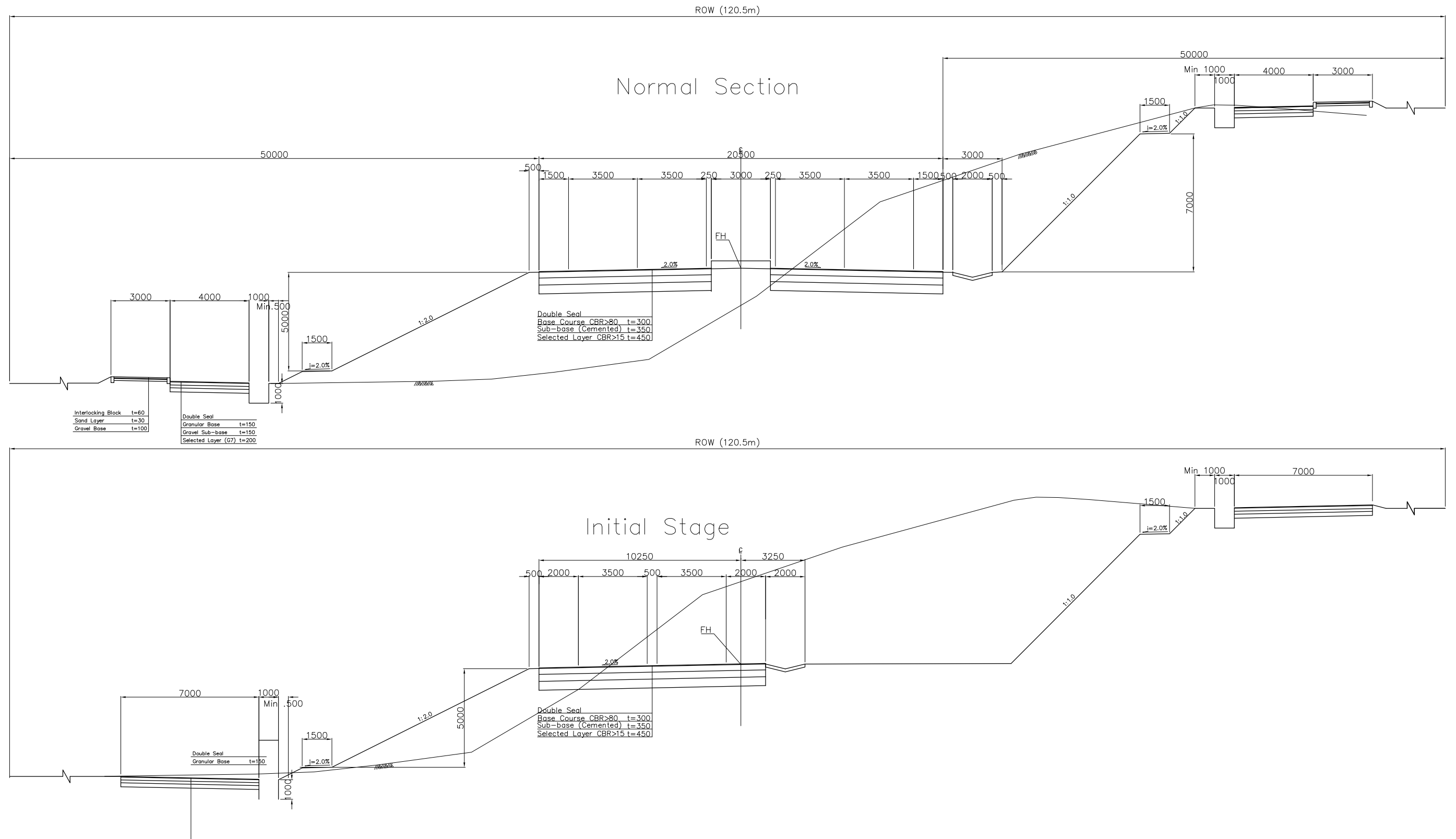
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NAME		
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PROJECT TITLE:  
**Preparatory Survey for Nacala Corridor  
 Road Network Upgrading Project  
 (Nampula Southern Bypass Road)**

DRAWING TITLE: **Basic Option (Initial Stage)  
 Plan and Profile**

SCALE	SHEET NO.	DRAWING NO.	REV. NO.
1/2500		C-38	

# NAMPUA SOUTHERN BYPASS ROAD Typical Cross Section

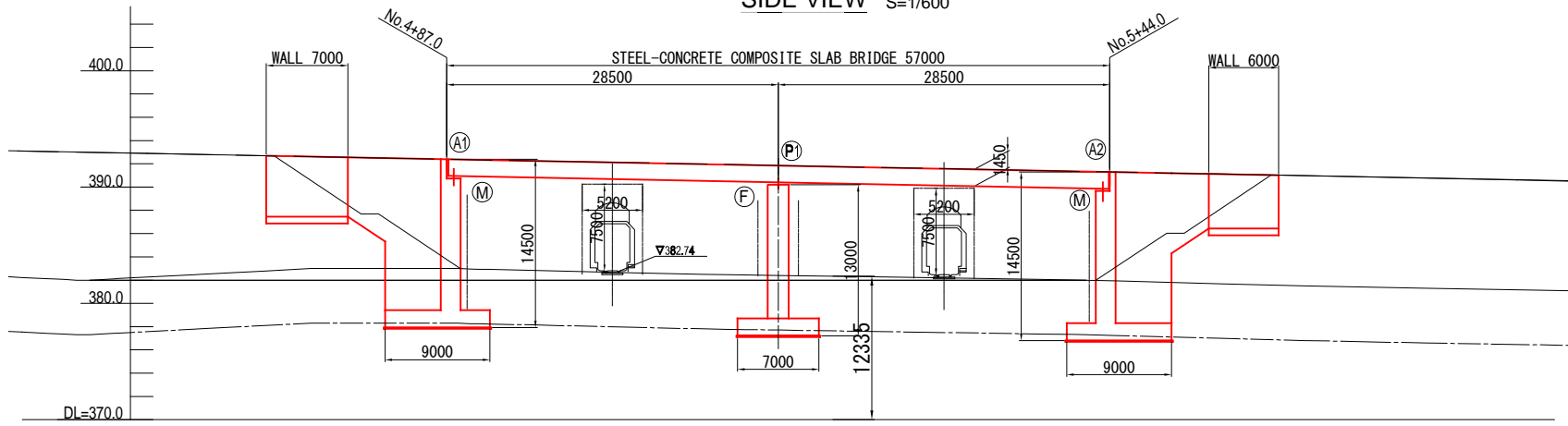


Japan International Cooperation Agency	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor                  Road Network Upgrading Project                  (NAMPUA SOUTHERN BYPASS ROAD)</b>	DRAWING TITLE: <b>Basic Option (Initial Stage)</b> Typical Cross Section			
		NAME				SCALE	SHEET NO.	DRAWING NO.	REV. NO.
National Road Administration (ANE)		DATE				1/200		C-39	



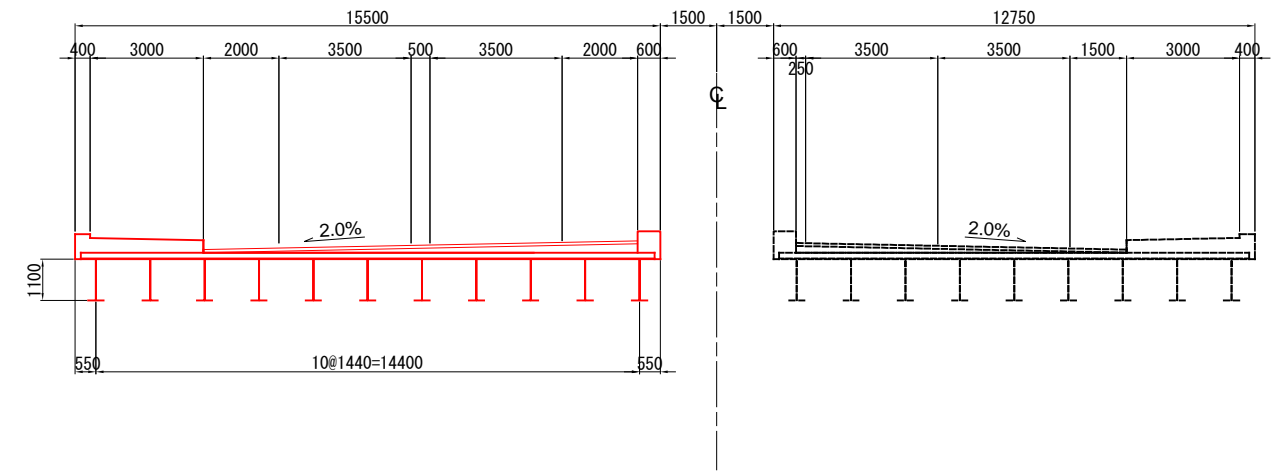
# GENERAL VIEW (NAMPULA No.5+00 BRIDGE)

SIDE VIEW S=1/600



GRADIENT	$i = -1.930\%$ $L = 342.741m$									
PROPOSED HEIGHT		392.535	392.400	392.149	391.850	391.763	391.377	391.300	390.989	390.570
GROUND HEIGHT		383.000	383.000	382.710	382.402	382.335	382.031	381.946	381.519	381.147
DISTANCE		20,000	7,000	13,000	15,500	4,500	20,000	4,000	16,000	20,000
STATION		NO.4 +80.000	A1 +87.000	NO.5 +0.000	P1 +15.5000	+20.000	+40.000	A2 +44.000	+60.000	+80.000
CURVE ELEMENT	R=2000 L=603.524									

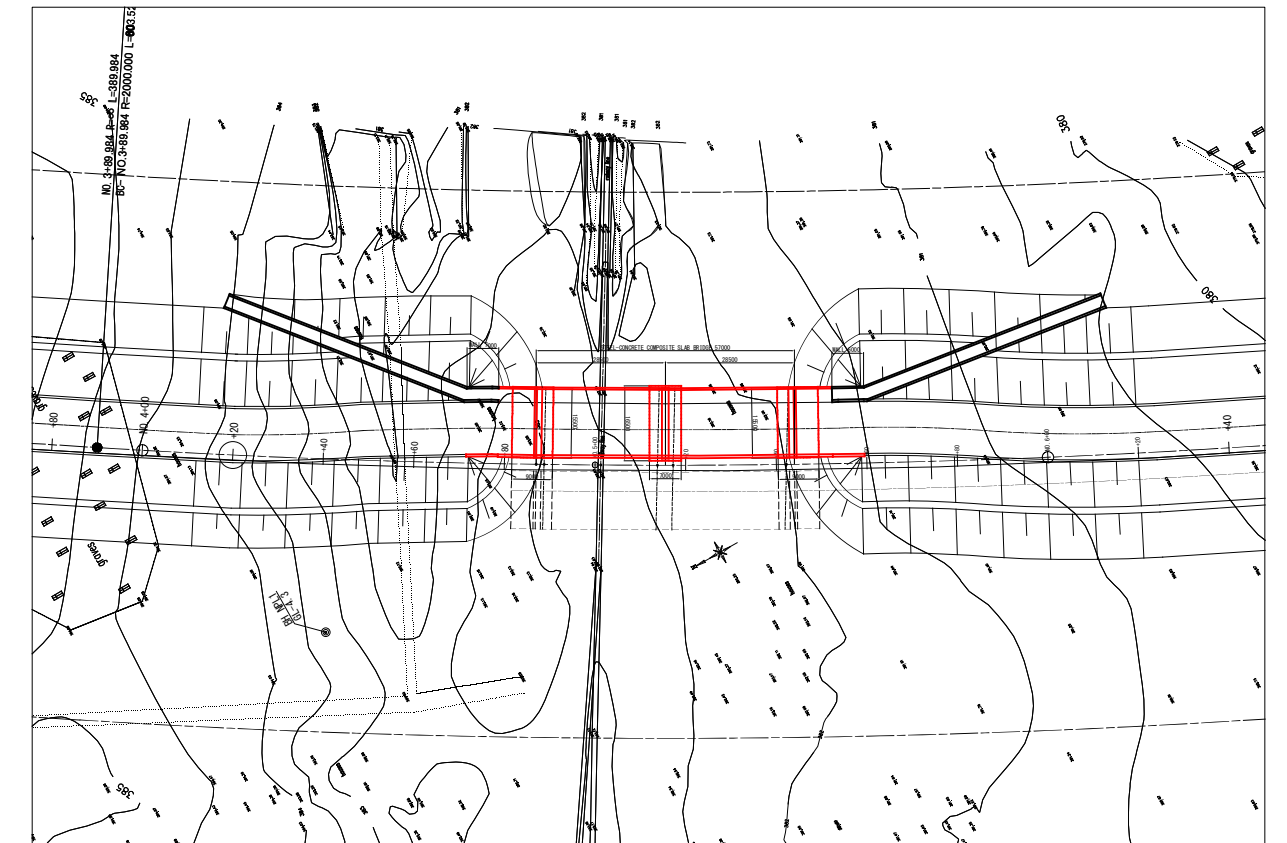
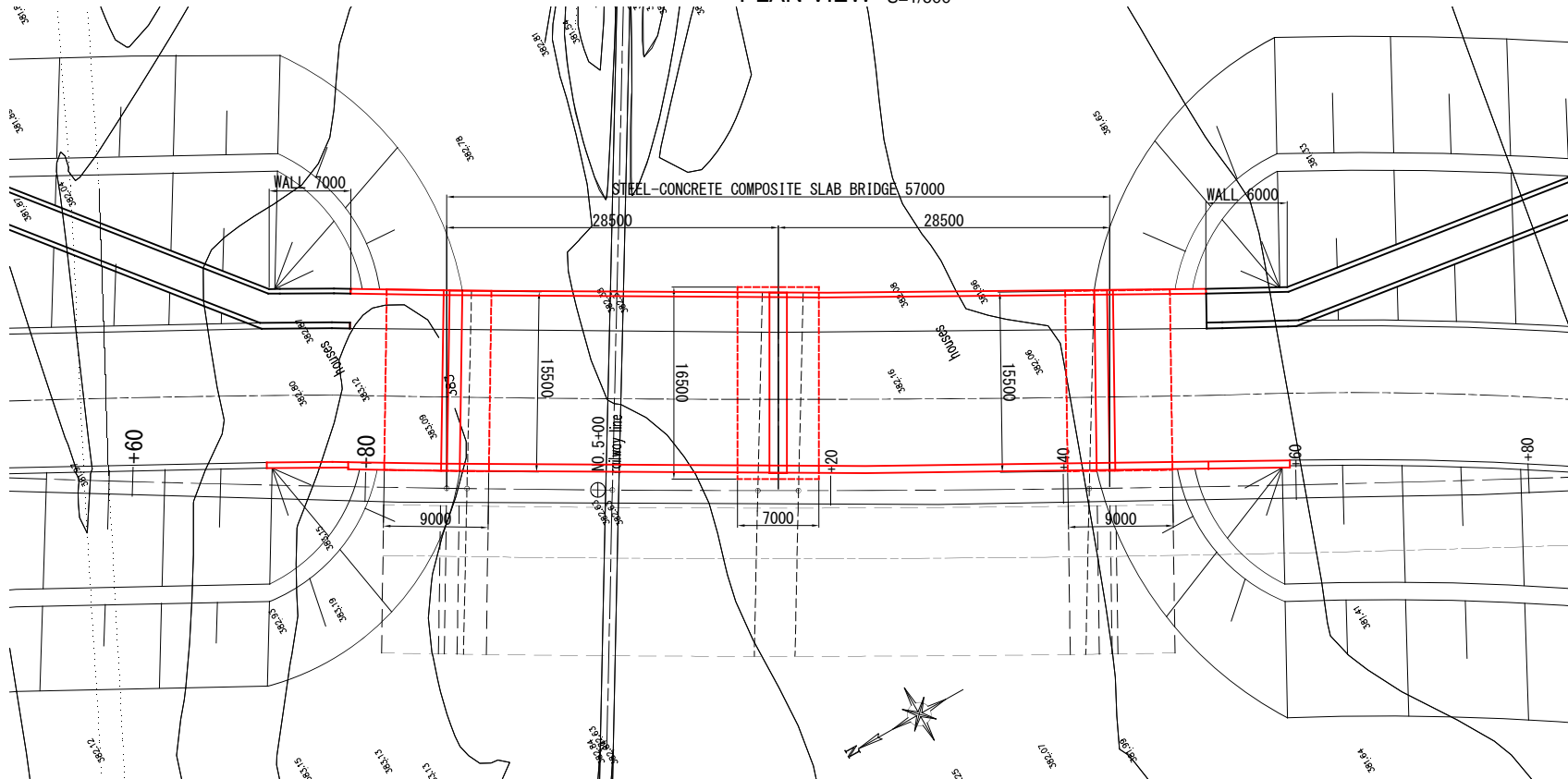
SUPERSTRUCTURE CROSS SECTION S=1/200



### DESIGN CONDITION

TOTAL BRIDGE LENGTH	57.000m
GIRDER LENGTH	56.800m
SPAN	28.000m
WIDTH	15.500m
ANGLE OF SKEW	90°00'00"
RADIUS OF CURVATURE	R=2000
LONGITUDINAL SLOPE	-1.930%
COMPRESSIVE STRENGTH	Floor Slab : $\sigma_{ck} = 36N/mm^2$

PLAN VIEW S=1/600



Japan International Cooperation Agency  
 National Road Administration (ANE)

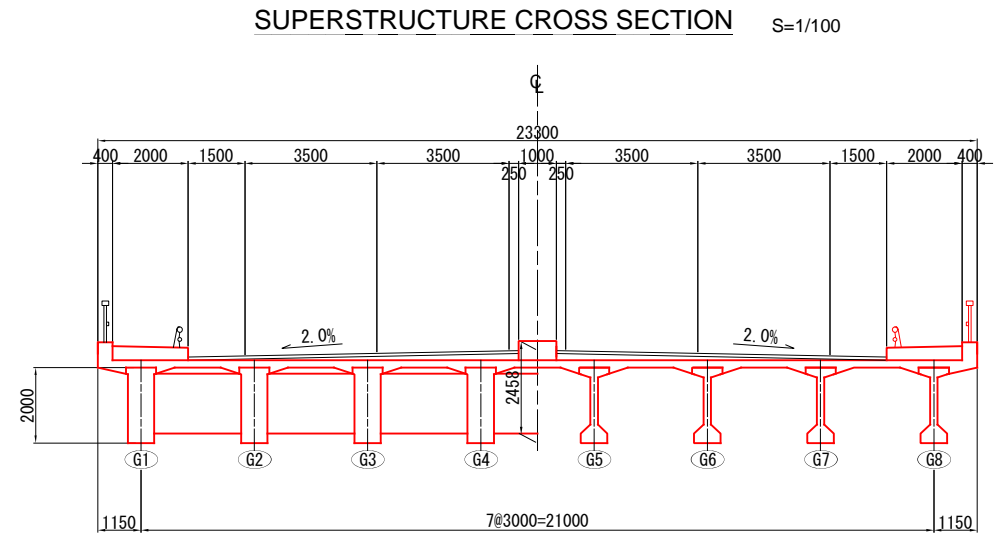
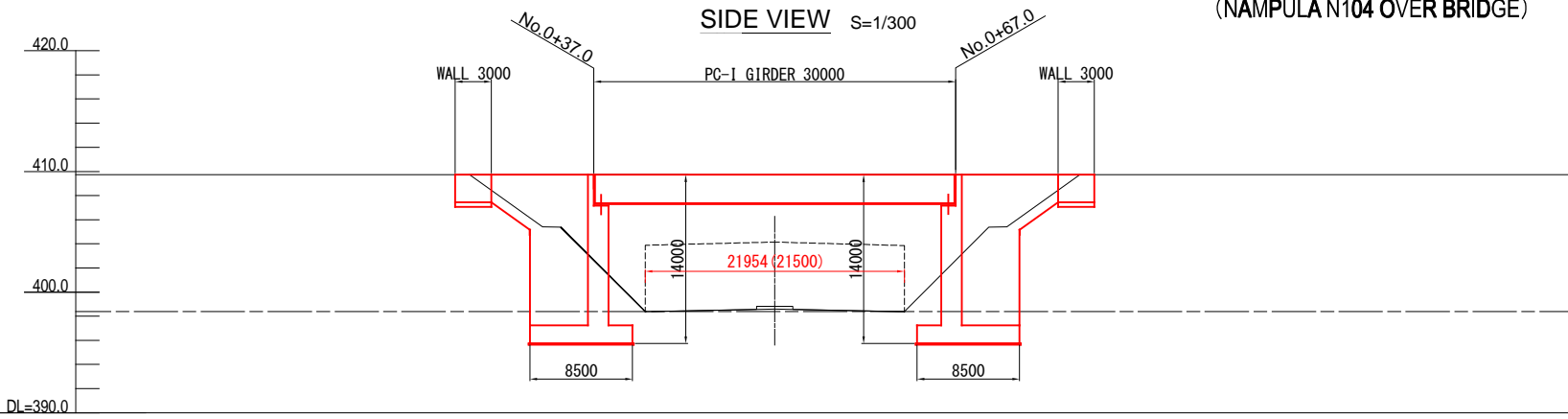
Oriental Consultants Global Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY
Eight-Japan Engineering Consultants Inc.	NAME		
Kokusai Kogyo Co., Ltd.	SIGNATURE		
	DATE		

PROJECT TITLE:  
**Preparatory Survey for Nacala Corridor  
Road Network Upgrading Project  
(Nampula Southern Bypass Road)**

DRAWING TITLE: Basic Option (Initial Stage)			
<b>GENERAL VIEW (NAMPULA No.5+00BRIDGE)</b>			
SCALE	SHEET NO.	DRAWING NO.	REV. NO.
		C-40	



# GENERAL VIEW (NAMPULA N104 OVER BRIDGE)



GRADIENT	LEVEL							
PROPOSED HEIGHT	409.735	409.735	409.735	409.735	409.735	409.735	409.735	409.735
GROUND HEIGHT	409.601	409.690	409.746	409.748	409.721	409.712	409.695	409.683
DISTANCE	00.000	20.000	17.000	3.000	20.000	7.000	13.000	20.000
STATION	NO.0 +00.000	+20.000	A1 +37.000	+40.000	+60.000	A2 +67.000	+80.000	NO.1 +100.000
CURVE ELEMENT	R= 4700 L= 350.000							

### DESIGN CONDITION

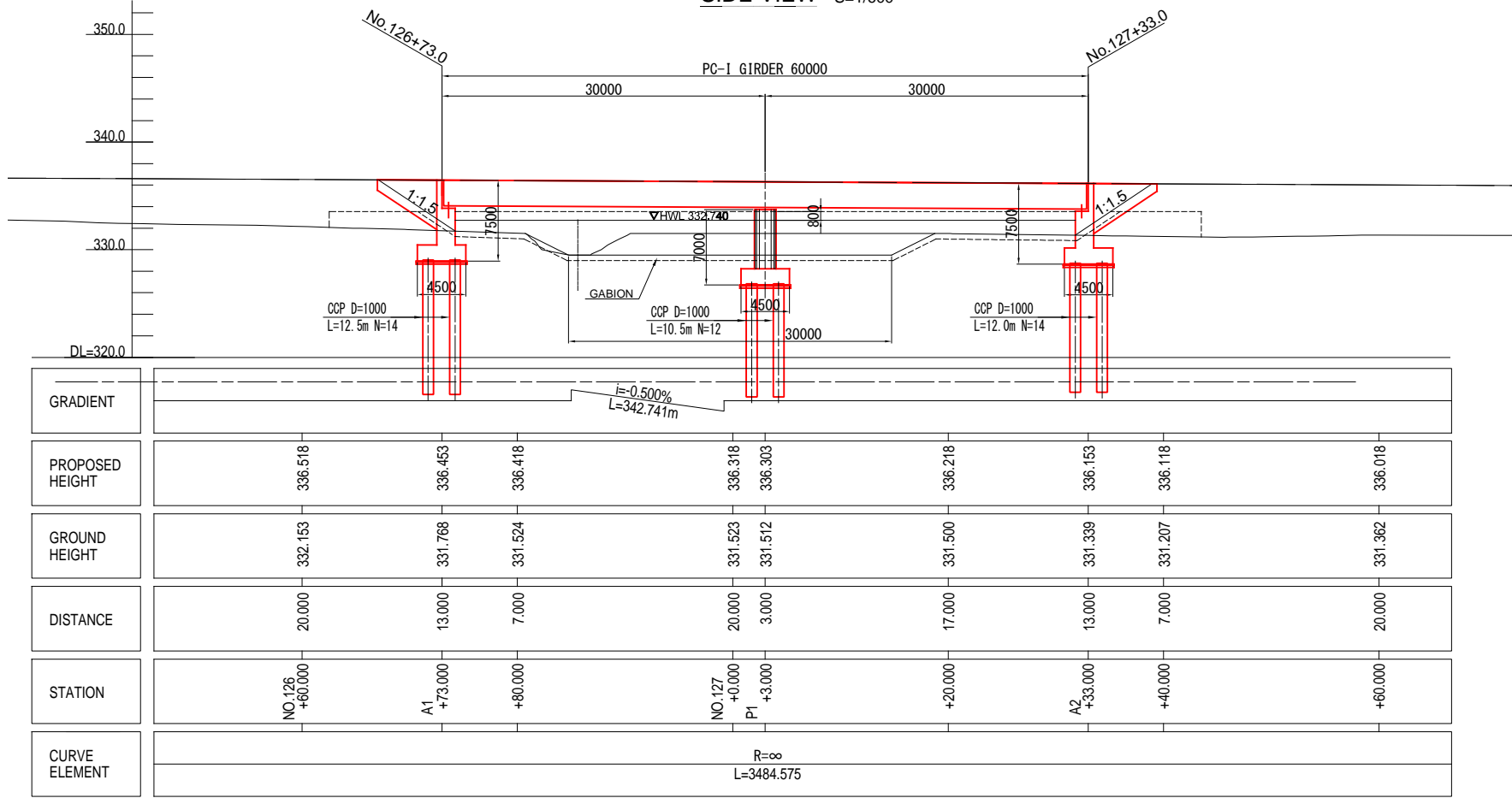
TOTAL BRIDGE LENGTH	30.000m
GIRDER LENGTH	29.900m
SPAN	29.100m
WIDTH	23.300m
ANGLE OF SKEW	78°00'00"
RADIUS OF CURVATURE	R=4700
LONGITUDINAL SLOPE	LEVEL
COMPRESSIVE STRENGTH	Main Girder: $\sigma_{ck}=40\text{N/mm}^2$ Floor Slab: $\sigma_{ck}=30\text{N/mm}^2$



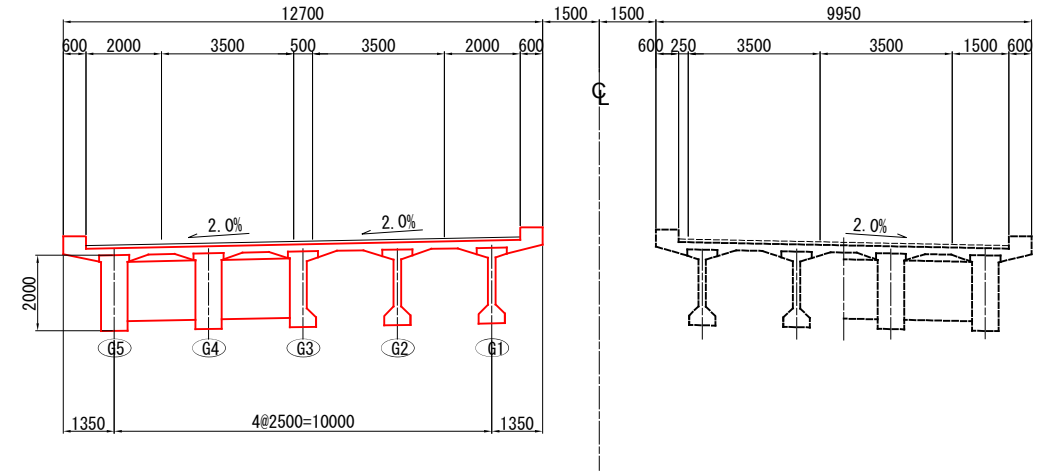
	Japan International Cooperation Agency		Oriental Consultants Global Co., Ltd.	PREPARED BY	CHECKED BY	APPROVED BY	<b>PROJECT TITLE:</b> Preparatory Survey for Nacala Corridor Road Network Upgrading Project (Nampula Southern Bypass Road)	<b>DRAWING TITLE:</b> Basic Option (Initial Stage) GENERAL VIEW (NAMPULA N104 OVER BRIDGE)			
		National Road Administration (ANE)		Kokusai Kogyo Co., Ltd.	NAME				SCALE	SHEET NO.	DRAWING NO.
							C-42				

**GENERAL VIEW**  
(NAMPULA No.126+70 BRIDGE)

**SIDE VIEW** S=1/600



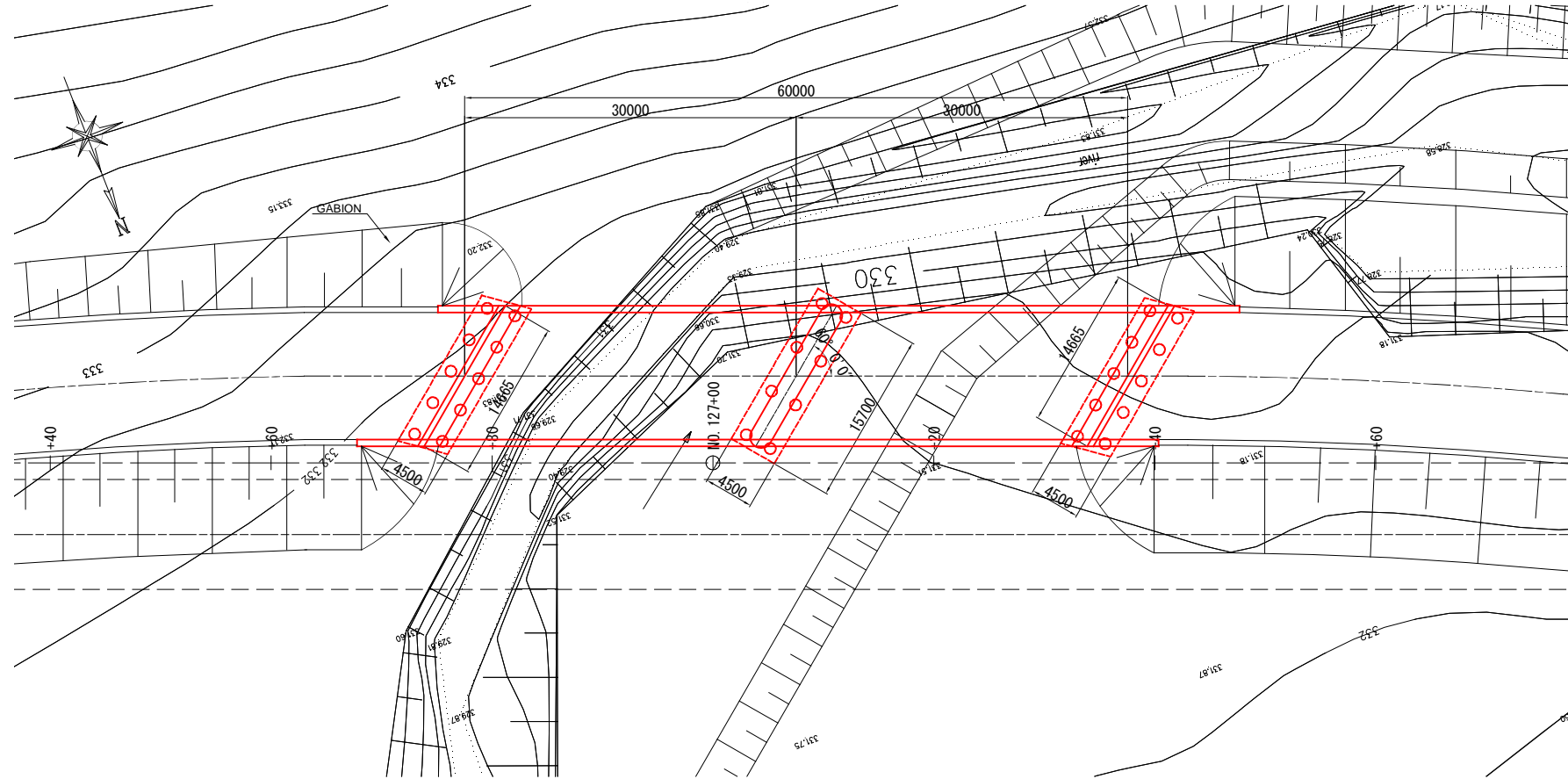
**SUPERSTRUCTURE CROSS SECTION** S=1/200



**DESIGN CONDITION**

TOTAL BRIDGE LENGTH	60.000m
GIRDER LENGTH	2@29.850m
SPAN	2@29.050m
WIDTH	12.700m
ANGLE OF SKEW	60°00'00"
RADIUS OF CURVATURE	R=∞
LONGITUDINAL SLOPE	-0.500%
COMPRESSIVE STRENGTH	Main Girder:σck=40N/mm <sup>2</sup> Floor Slab:σck=30N/mm <sup>2</sup>

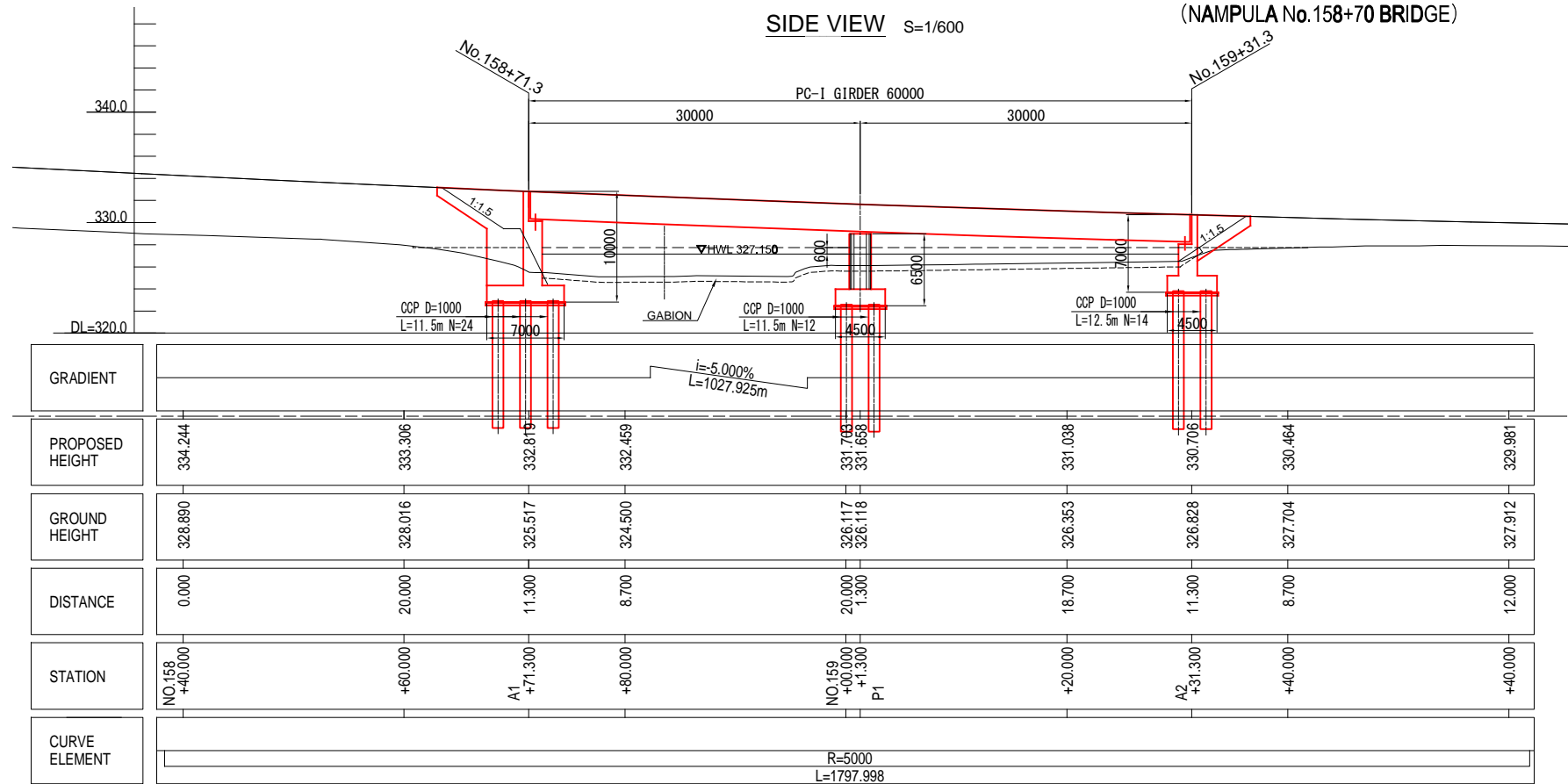
**PLAN VIEW** S=1/600



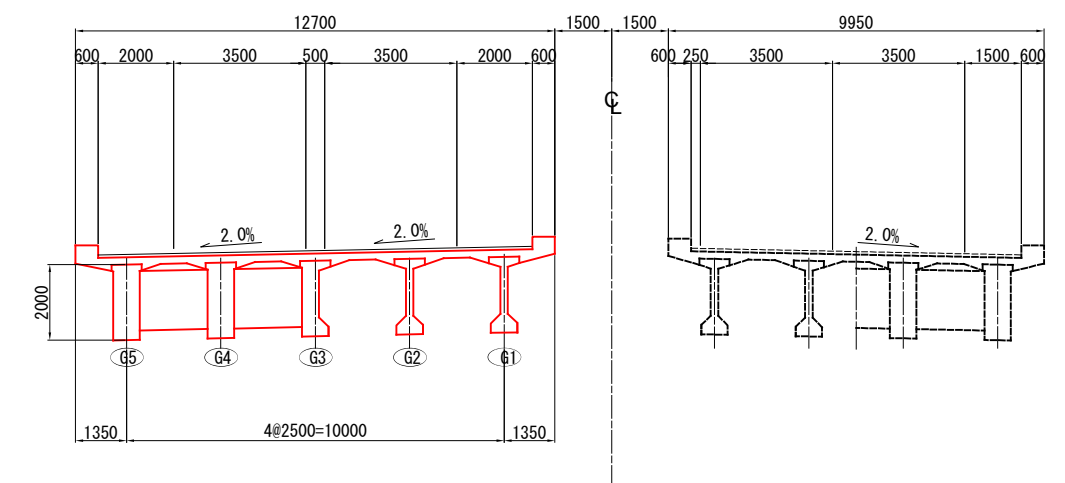
	Japan International Cooperation Agency National Road Administration (ANE)	Oriental Consultants Global Co., Ltd. Eight-Japan Engineering Consultants Inc. Kokusai Kogyo Co., Ltd.	PREPARED BY CHECKED BY APPROVED BY	NAME SIGNATURE DATE	PROJECT TITLE: <b>Preparatory Survey for Nacala Corridor                  Road Network Upgrading Project                  (Nampula Southern Bypass Road)</b>	DRAWING TITLE: Basic Option (Initial Stage) <b>GENERAL VIEW (NAMPULA No.126+70 BRIDGE)</b>	SCALE SHEET NO. DRAWING NO. REV. NO.
	C-43						

# GENERAL VIEW (NAMPULA No.158+70 BRIDGE)

SIDE VIEW S=1/600



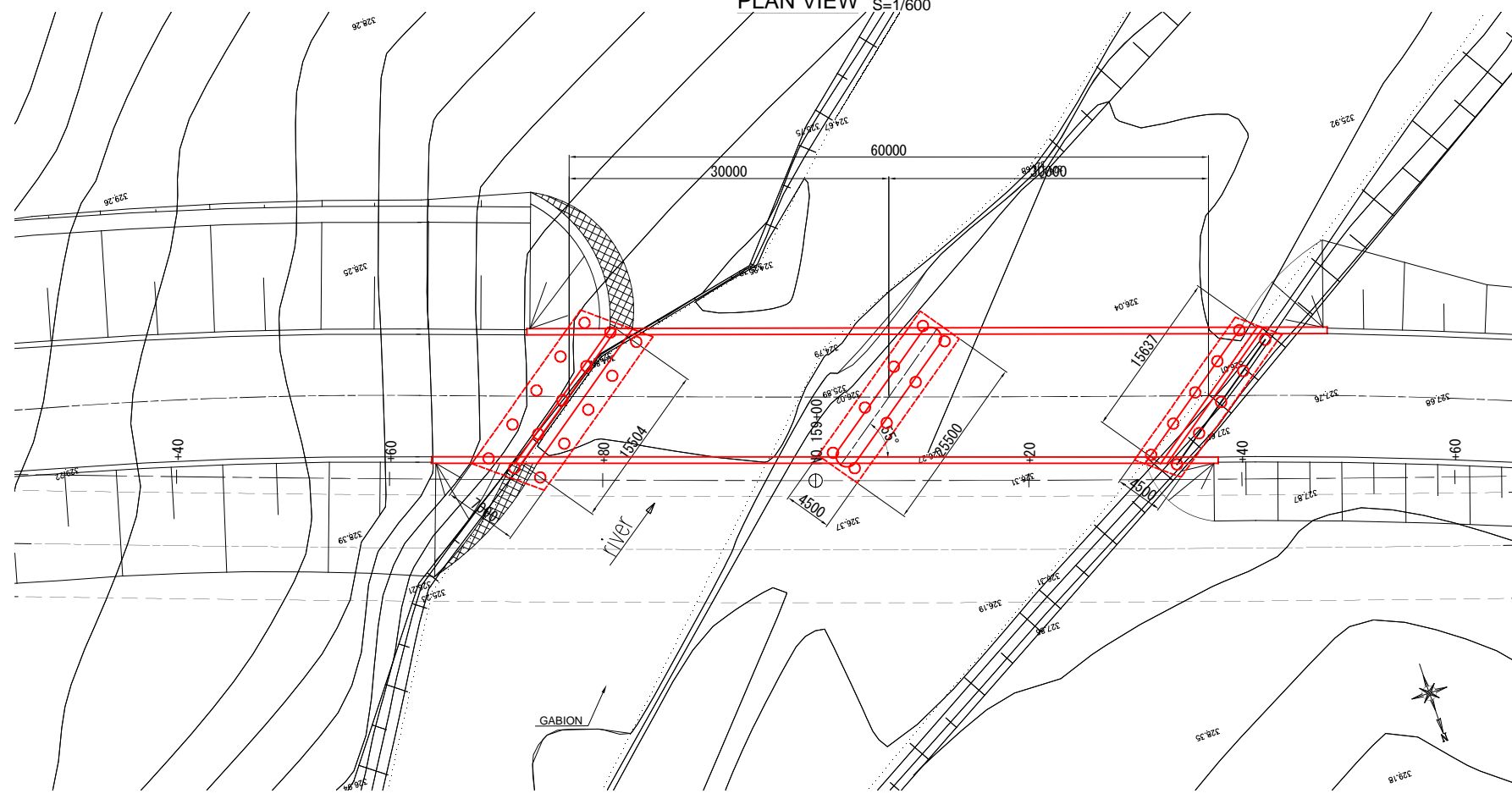
SUPERSTRUCTURE CROSS SECTION S=1/200



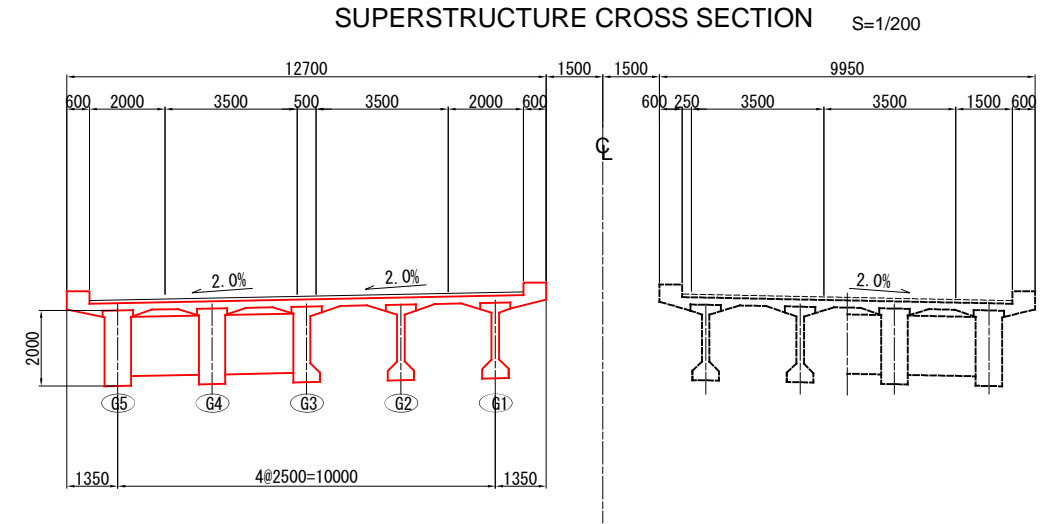
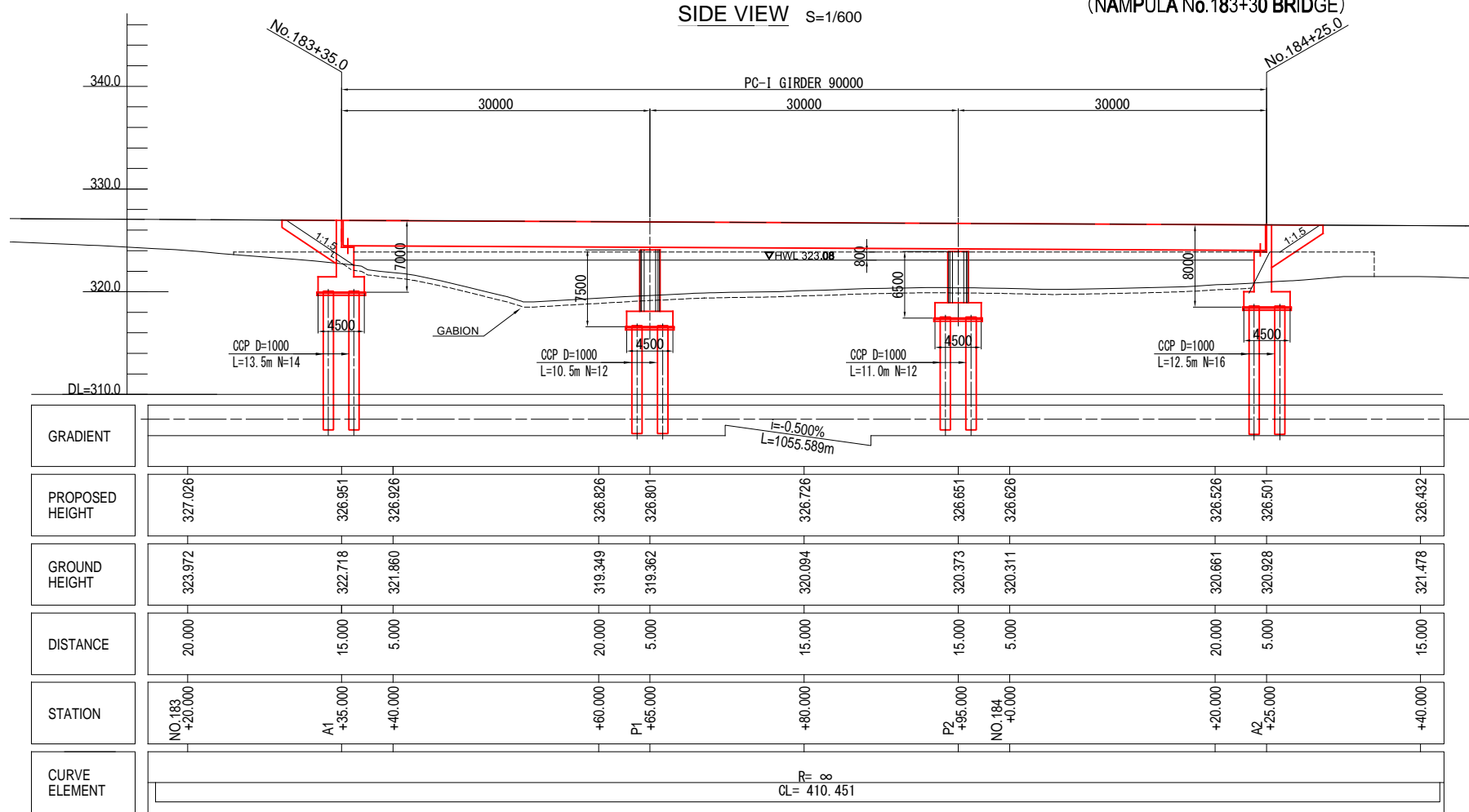
### DESIGN CONDITION

TOTAL BRIDGE LENGTH	60.000m
GIRDER LENGTH	2@29.850m
SPAN	2@29.050m
WIDTH	12.700m
ANGEL OF SKEW	55°00'00"
RADIUS OF CURVATURE	R= 5000
LONGITUDINAL SLOPE	-5.000%
COMPRESSIVE STRENGTH	Main Girder:σck=40N/mm <sup>2</sup>
	Floor Slab :σck=30N/mm <sup>2</sup>

PLAN VIEW S=1/600

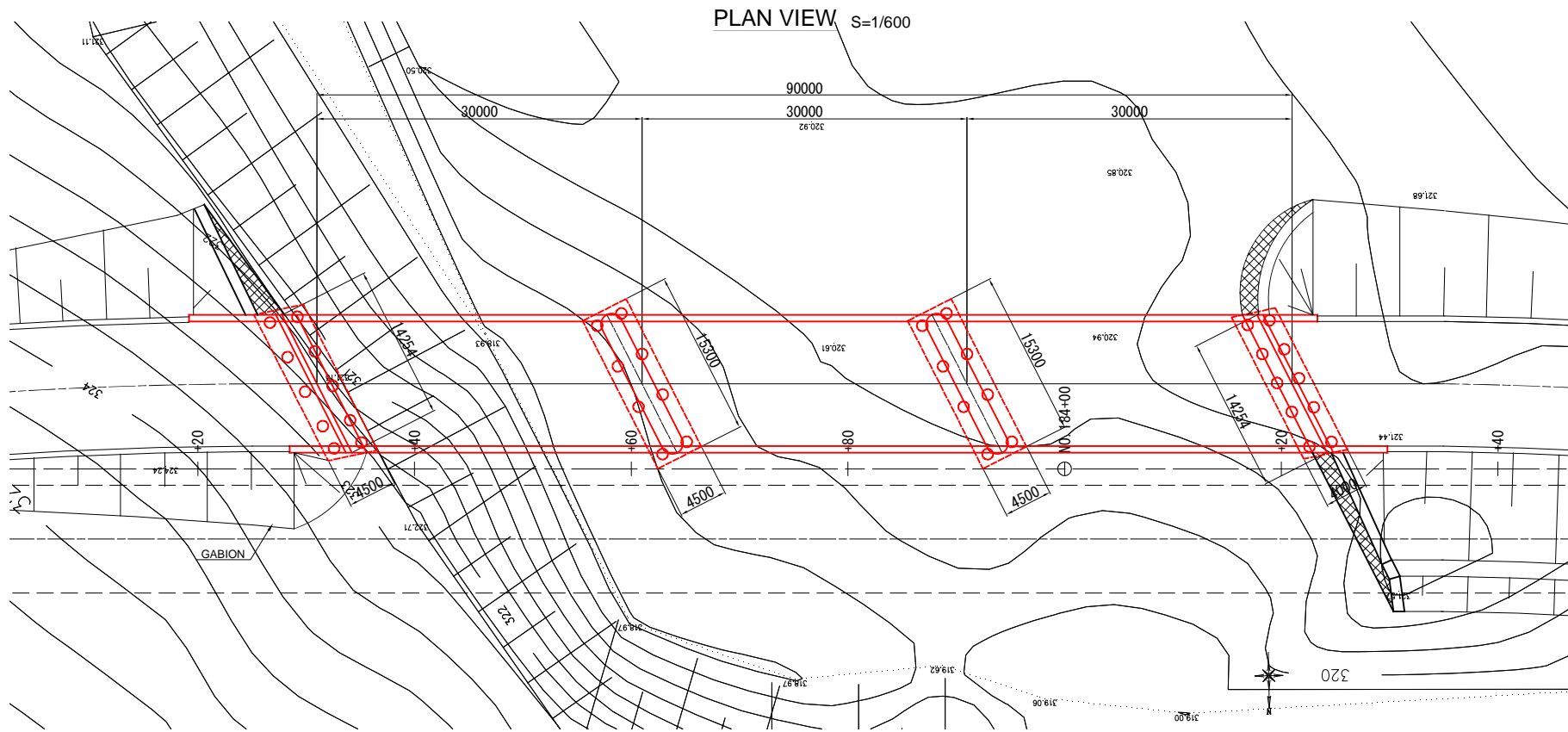


**GENERAL VIEW**  
(NAMPULA No.183+30 BRIDGE)



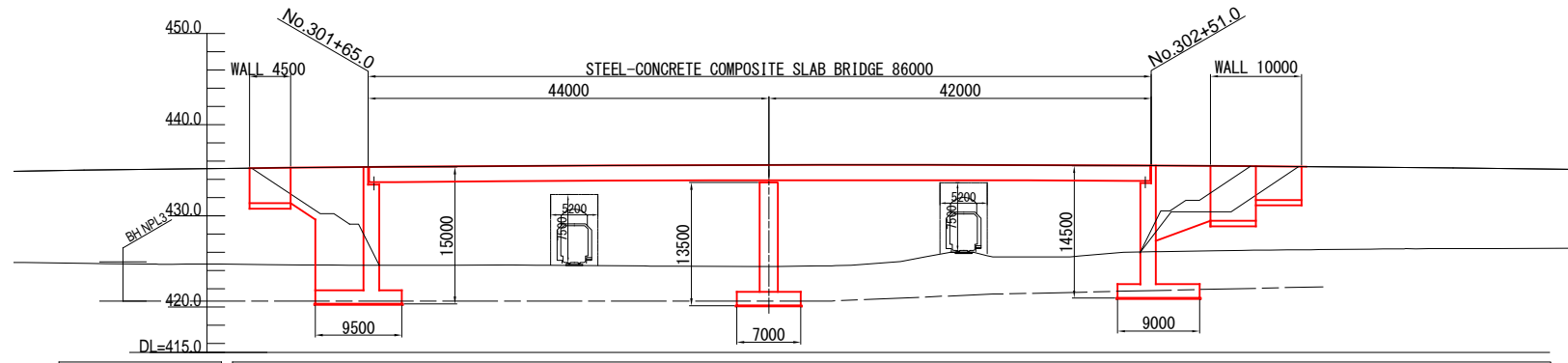
**DESIGN CONDITION**

TOTAL BRIDGE LENGTH	90.000m
GIRDER LENGTH	29.850m+29.800m+29.850m
SPAN	29.050m+29.000m+29.050m
WIDTH	12.700m
ANGLE OF SKEW	90°00'00"
RADIUS OF CURVATURE	R=∞
LONGITUDINAL SLOPE	-0.500%
COMPRESSIVE STRENGTH	Main Girder:cck=40N/mm <sup>2</sup>
	Floor Slab :cck=30N/mm <sup>2</sup>



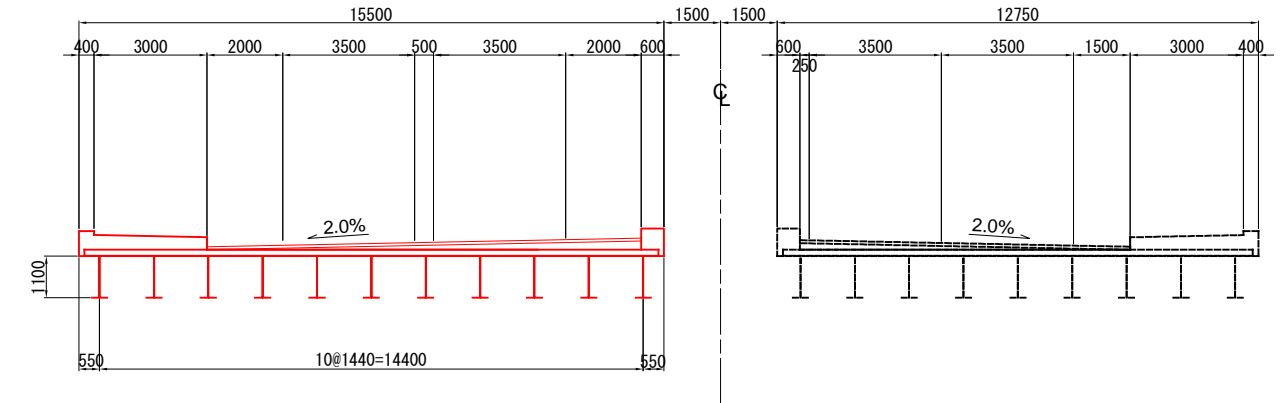
**GENERAL VIEW**  
(NAMPULA No.301+60)

SIDE VIEW S=1/800



GRADIENT	$i = -1.077\%$ $L = 497.932m$									
PROPOSED HEIGHT	435.308	435.352	435.468	435.562	435.581	435.590	435.552	435.502	435.449	435.277
GROUND HEIGHT	424.606	424.591	424.607	424.474	424.453	424.733	425.500	425.063	425.206	425.391
DISTANCE	20.000	5.500	14.500	20.000	9.500	10.500	20.000	11.500	8.500	20.000
STATION	NO.301 +60.000	A1 +65.000	+80.000	NO.302 +0.000	P1 +9.000	+20.000	+40.000	A2 +51.000	+60.000	+80.000
CURVE ELEMENT	R= 1000 CL= 650.717									

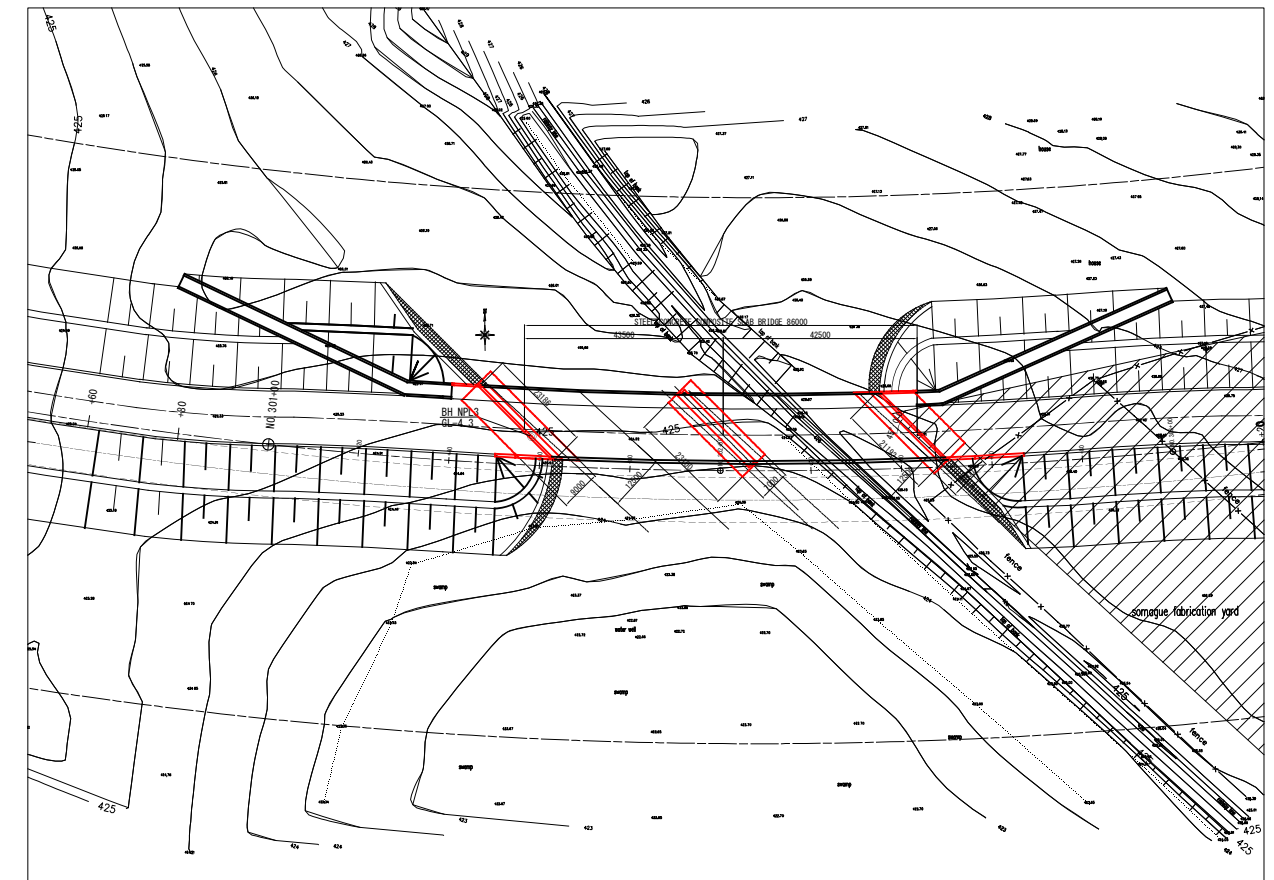
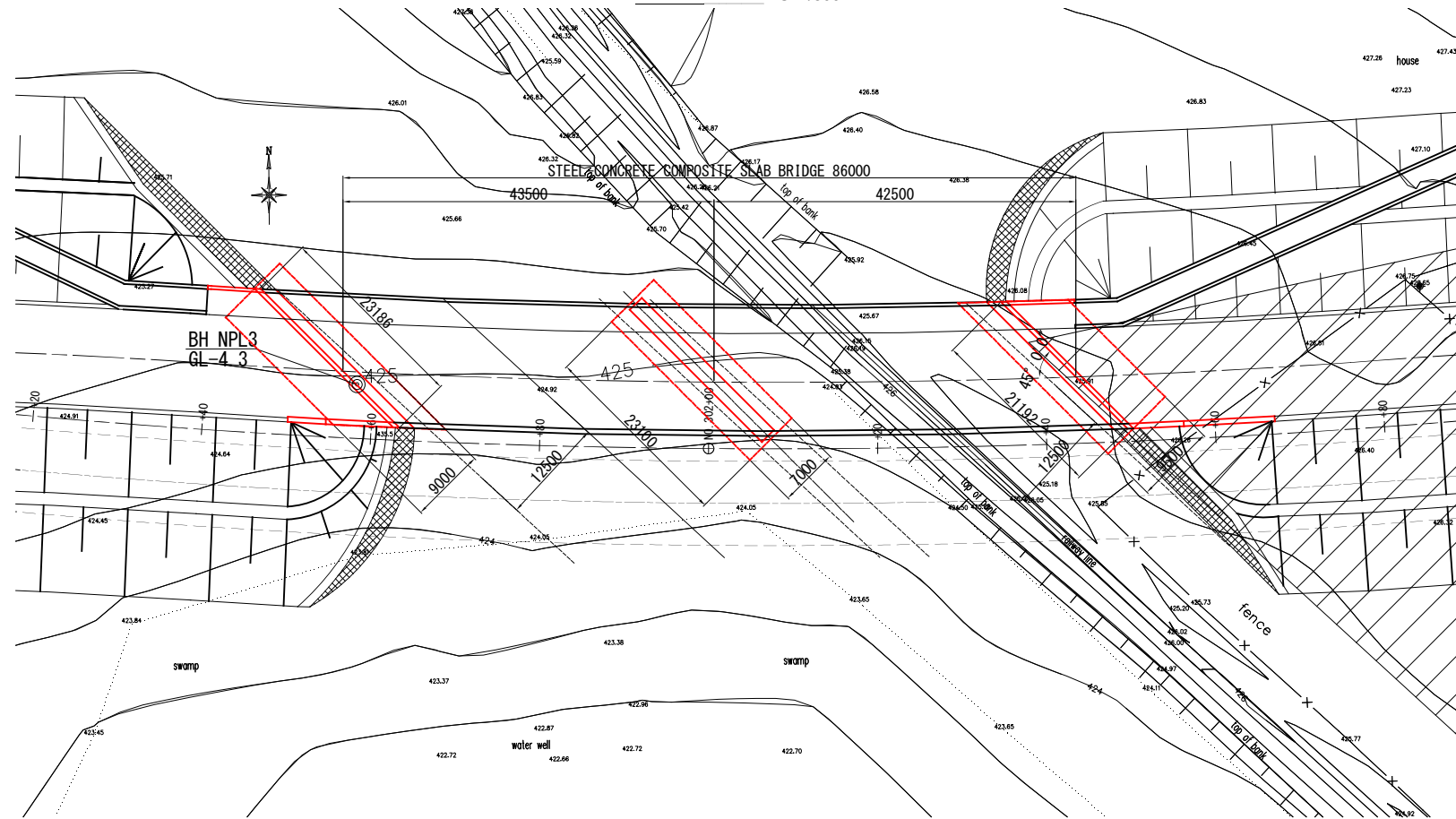
SUPERSTRUCTURE CROSS SECTION S=1/200



**DESIGN CONDITION**

TOTAL BRIDGE LENGTH	86.000m
GIRDER LENGTH	43.900m+41.900m
SPAN	43.500m+41.500m
WIDTH	15.500m
ANGLE OF SKEW	45°00'00"
RADIUS OF CURVATURE	R=1000
LONGITUDINAL SLOPE	-1.077%
COMPRESSIVE STRENGTH	Floor Slab : $\sigma_{ck} = 36N/mm^2$

PLAN VIEW S=1/800



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SIGNATURE		
DATE		

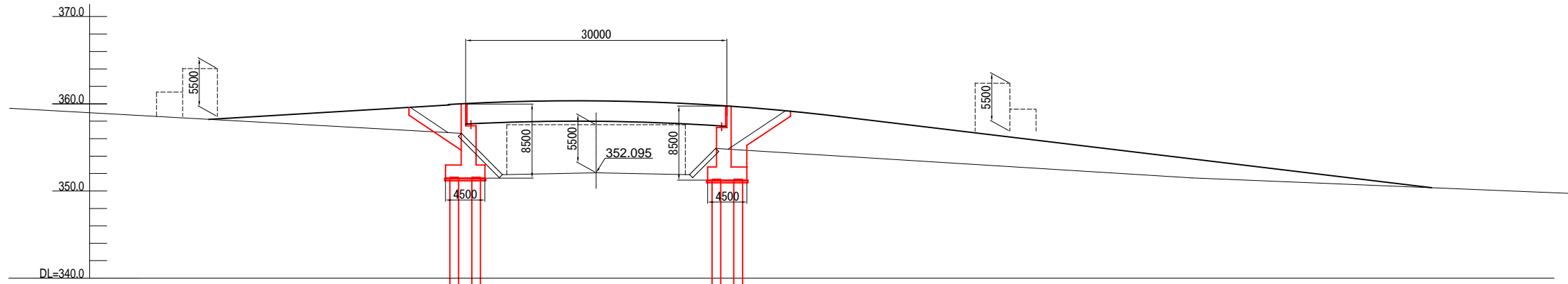
PROJECT TITLE:  
**Preparatory Survey for Nacala Corridor  
Road Network Upgrading Project  
(Nampula Southern Bypass Road)**

DRAWING TITLE: Basic Option (Initial Stage)			
<b>GENERAL VIEW (NAMPULA No.301+60 BRIDGE)</b>			
SCALE	SHEET NO.	DRAWING NO.	REV. NO.
		C-46	

# GENERAL VIEW

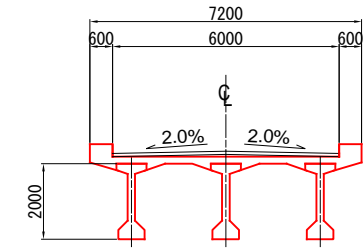
(COMMUNITY SEVERANCE BRIDGE NAMPULA No.118+00)

SIDE VIEW S=1/600



GRADIENT	i=6.000% L=50.047m		361.223		i=12.000% L=90.360m	
PROPOSED HEIGHT	358.697	358.910	359.956	360.079	360.167	359.754
GROUND HEIGHT	358.697	357.578	356.572	356.460	355.388	354.805
DISTANCE	20.000	20.000	8.000	2.000	20.000	8.000
STATION	NO.1 +0.000	+20.000	A1 +38.000	+40.000	+60.000	A2 +68.000
CURVE ELEMENT	R=∞ L=150.000					

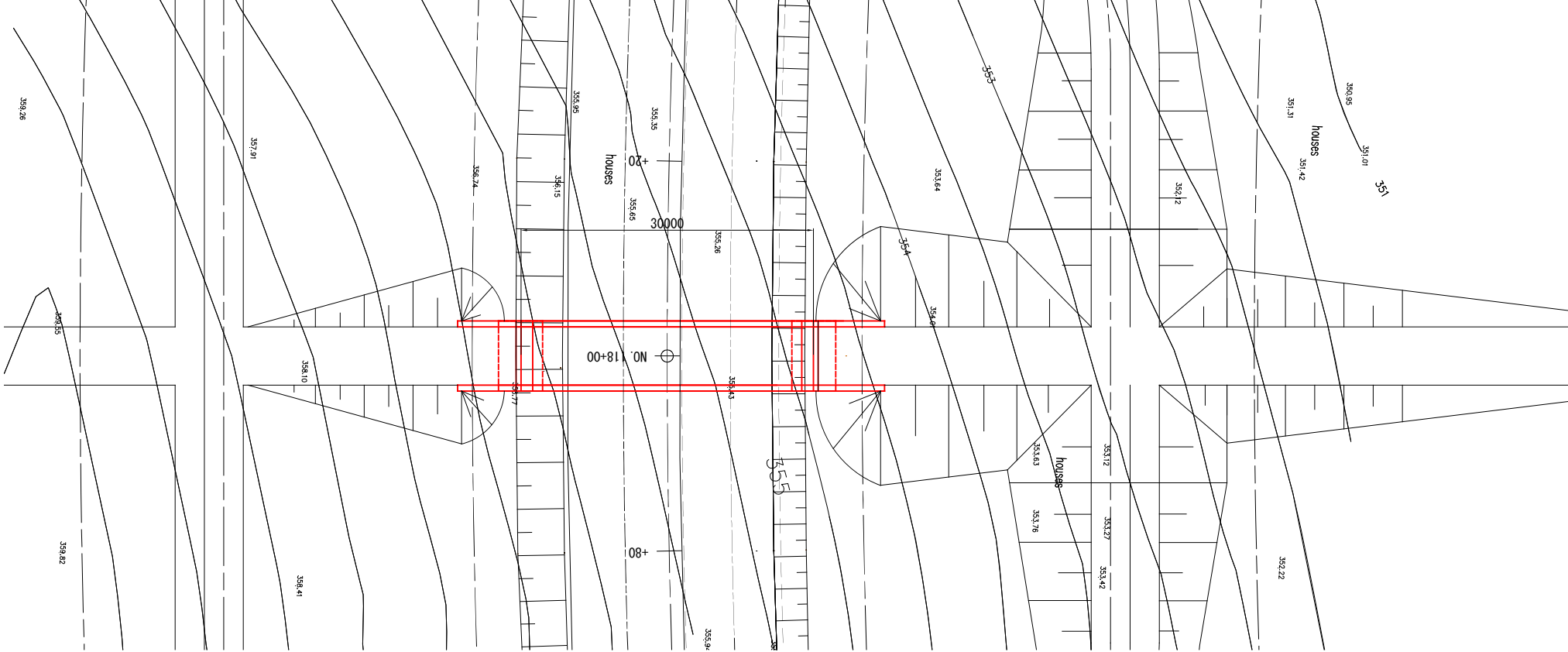
SUPERSTRUCTURE CROSS SECTION S=1/200



## DESIGN CONDITION

TOTAL BRIDGE LENGTH	30.000m
GIRDER LENGTH	29.850m
SPAN	29.050m
WIDTH	7.200m
ANGEL OF SKEW	90°00'00"
RADIUS OF CURVATURE	R=∞
LONGITUDINAL SLOPE	6.000%    -12.000%
COMPRESSIVE STRENGTH	Main Girder:σck=40N/mm <sup>2</sup> Floor Slab:σck=30N/mm <sup>2</sup>

PLAN VIEW S=1/600



Japan International Cooperation Agency  
 National Road Administration (ANE)

Oriental Consultants Global Co., Ltd.  
 Eight-Japan Engineering Consultants Inc.  
 Kokusai Kogyo Co., Ltd.

PREPARED BY	CHECKED BY	APPROVED BY
NAME		
SIGNATURE		
DATE		

PROJECT TITLE:  
**Preparatory Survey for Nacala Corridor  
Road Network Upgrading Project  
(Nampula Southern Bypass Road)**

DRAWING TITLE: Basic Option (Initial Stage)  
**GENERAL VIEW  
(COMMUNITY SEVERANCE BRIDGE NAMPULA No.118+00)**

SCALE	SHEET NO.	DRAWING NO.	REV. NO.
		C-47	