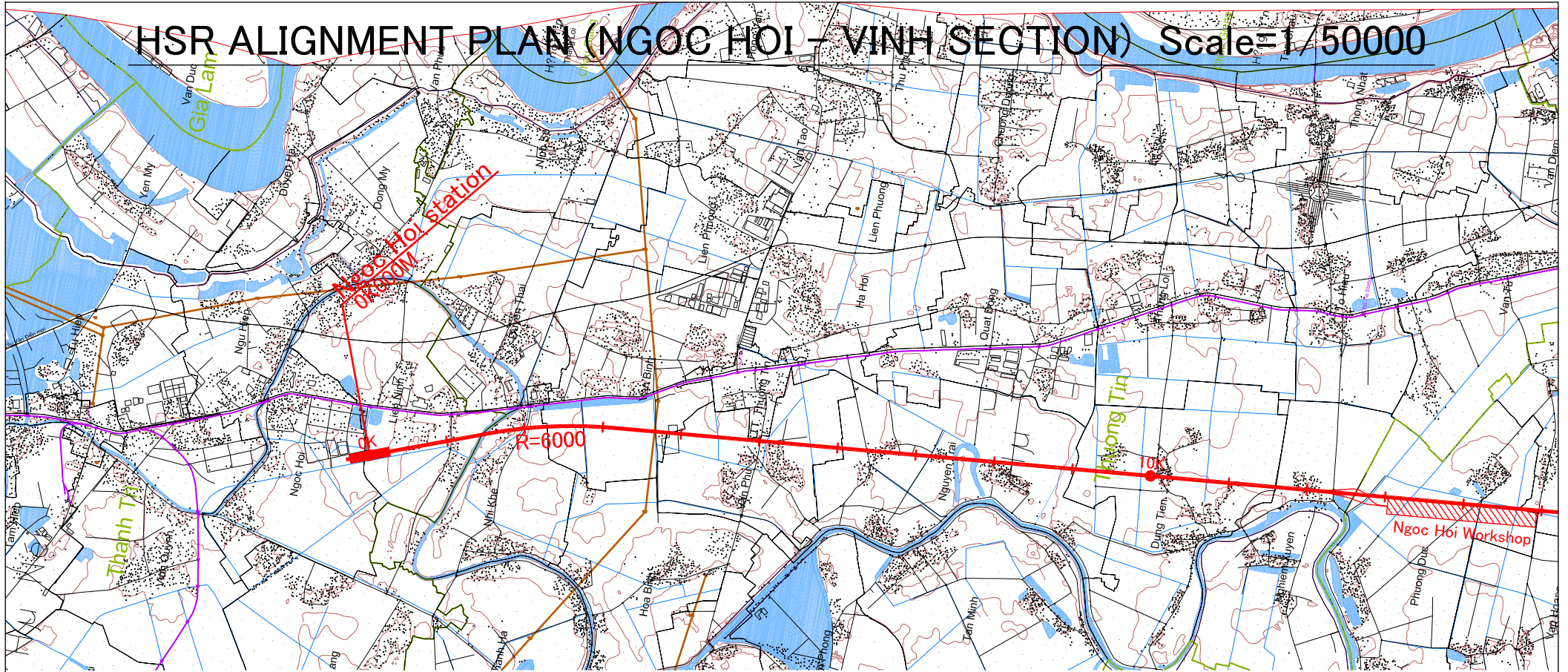
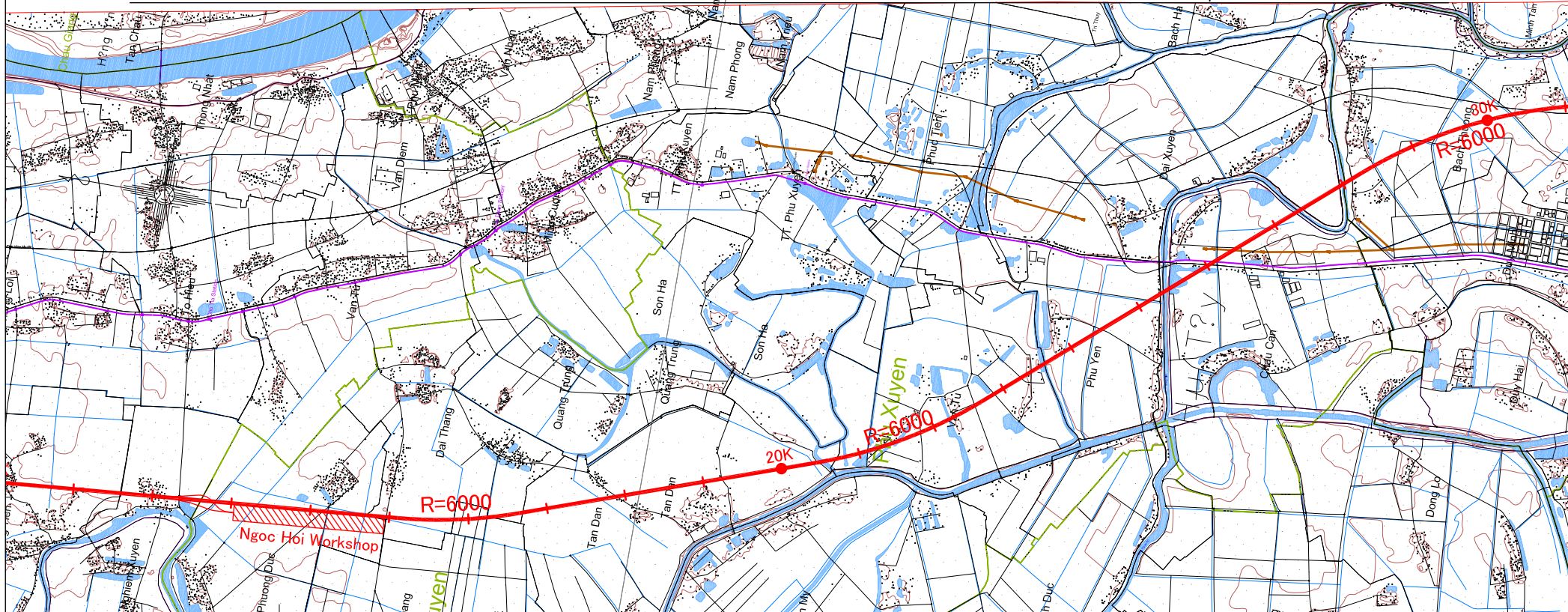


# HSR ALIGNMENT PLAN (NGOC HOI - VINH SECTION) Scale=1/50000



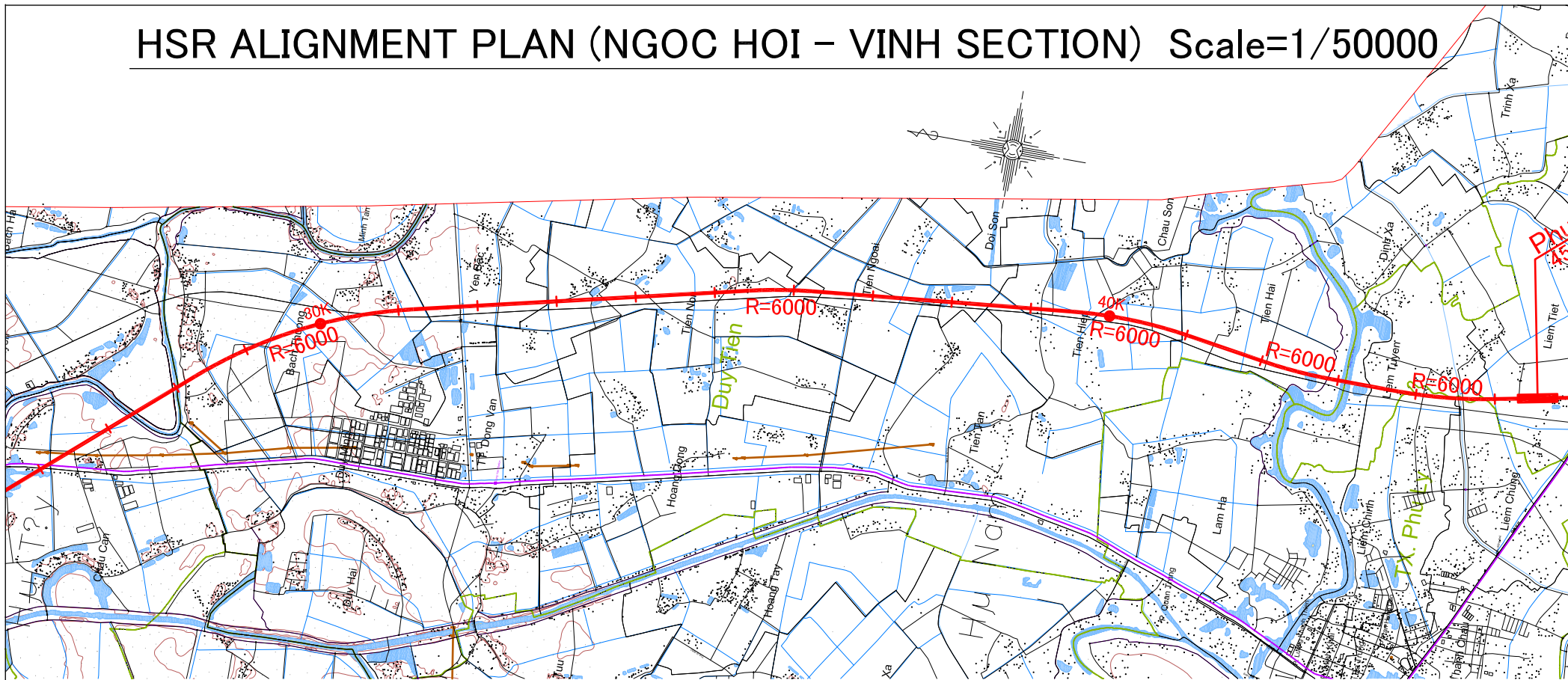
LONGITUDINAL GRADE (%) DO DOC DOC (%) (m)	E=0.0% L=1466.00m		E=-1.2% L=1041.00m		E=0.0% L=10241.00m										E=0.5% L=1102.00m											
FINISH ELEVATION (M) CAO DO THIET KE (M)	24.0	24.0	24.0	24.0	13.9	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	8.7	6.0	6.0	6.0	
EXISTING ELEVATION (m) CAO DO TU NHEN (m)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.0	3.3	4.0	3.0	4.0	3.7	2.9	2.2	2.0	2.0	2.0	3.9	3.9	
ACCUMULATED DISTANCE (m) KHOANG CACH CONG DON (m)	-308.00	000.00	1000.00	1158.00	2000.00	2199.00	3000.00	4000.00	5000.00	6000.00	7000.00	8000.00	9000.00	10000.00	11000.00	12000.00	12440.00	13000.00	13542.00	14000.00	15000.00					
HORIZONTAL GEOMETRY DUANG THANG, DUANG CONG	L=1815m		R=6000m L=1626m		L=11969m																					

# HSR ALIGNMENT PLAN (NGOC HOI – VINH SECTION) Scale=1/50000



LONGITUDINAL GRADE(%) DO DOC DOC (%) (m)	F=0.0% L=5792.00m										F=0.4% L=1294.00m										F=0.0% L=5432.00m										F=0.4% L=1875.00m																			
FINISH ELEVATION(M) CAO DO THIET KE(M)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	8.7	11.2	11.3	11.5	11.7	12.0	12.2	12.4	12.5	9.6	9.5	9.5	9.5	10.6	14.6																											
EXISTING ELEVATION (m) CAO DO TU NHEN (m)	2.0	3.9	3.3	3.3	4.0	3.9	3.8	3.6	2.3	2.7	4.0	4.0	3.6	3.2	2.4	2.5	2.0	2.0	2.0	2.0	2.1	2.6																												
ACCUMULATED DISTANCE (m) KHOANG CACH CONG DON (m)	14000.00	15000.00	16000.00	17000.00	18000.00	19000.00	19334.00	20000.00	20628.00	21000.00	22000.00	23000.00	24000.00	25000.00	26000.00	26060.00	27000.00	27047.00	28000.00	28715.00	29000.00	30000.00																												
HORIZONTAL GEOMETRY DUONG THANG , DUONG CONG	L=1545m R=6000m										L=3802m										L=2238m R=6000m										L=5587m										R=6000m L=2914m									

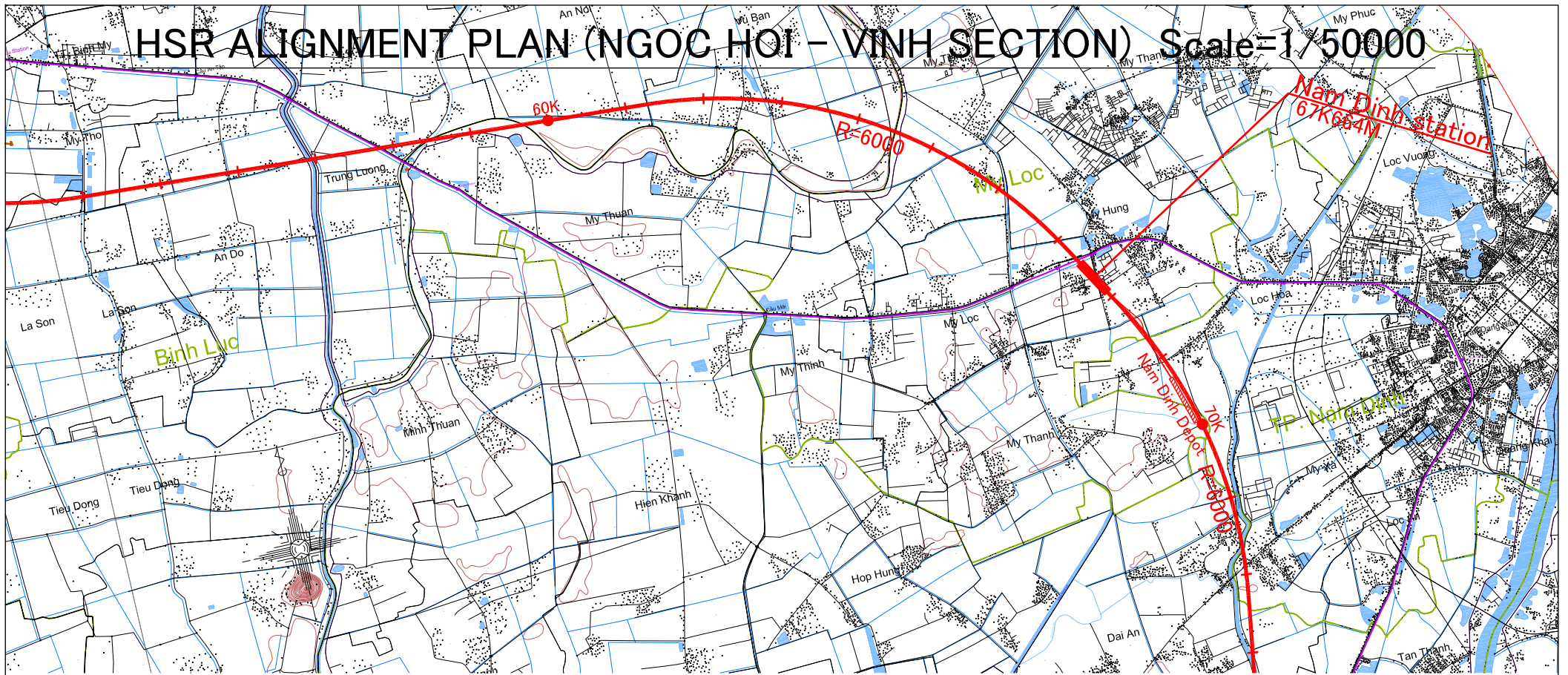
# HSR ALIGNMENT PLAN (NGOC HOI – VINH SECTION) Scale=1/50000



LONGITUDINAL GRADE (%) DO DOC DOC (%) (m)	-0.4% L=1875.00m		-0.5% L=1793.00m		0.0% L=9477.00m										0.1% L=3780.00m											
FINISH ELEVATION (M) CAO DO THIET KE (M)	9.5	10.6	14.6	17.0	15.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.1	13.4	14.8							
EXISTING ELEVATION (m) CAO DO TU NHEN (m)	2.0	2.1	2.6	2.0	2.0	2.0	2.1	2.7	3.3	3.9	3.7	3.2	3.1	2.9	2.7	2.9	3.0	3.3	3.6	3.9						
ACCUMULATED DISTANCE (m) KHOANG CACH CONG DON (m)	28715.00	29000.00	30000.00	30590.00	31000.00	31783.00	32000.00	33000.00	34000.00	35000.00	36000.00	37000.00	38000.00	39000.00	40000.00	41000.00	41260.00	42000.00	43000.00	44000.00						
HORIZONTAL GEOMETRY DUONG THANG, DUONG CONG	R=6000m L=2914m		L=4248m										R=6000m L=799m		L=3278m		R=6000m L=1515m		L=998m		L=894m R=6000m		L=854m		L=1196m R=6000m	

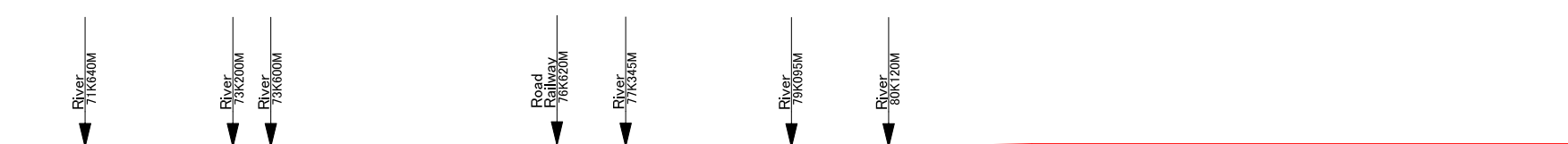
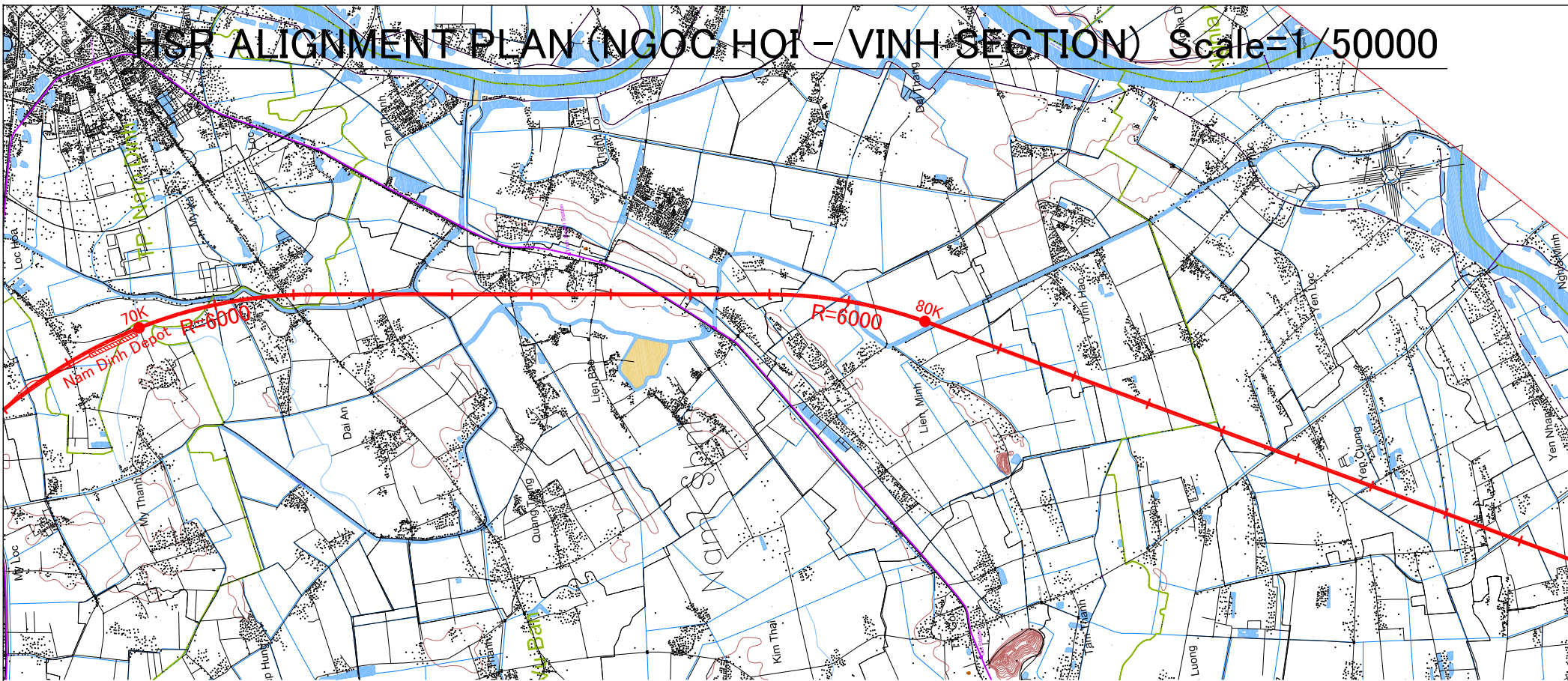


# HSR ALIGNMENT PLAN (NGOC HOI - VINH SECTION) Scale=1/50000



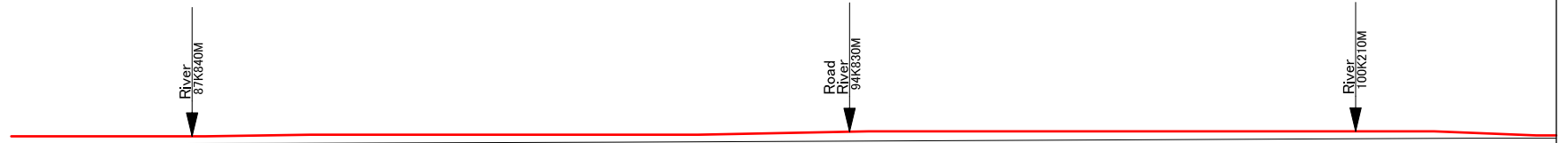
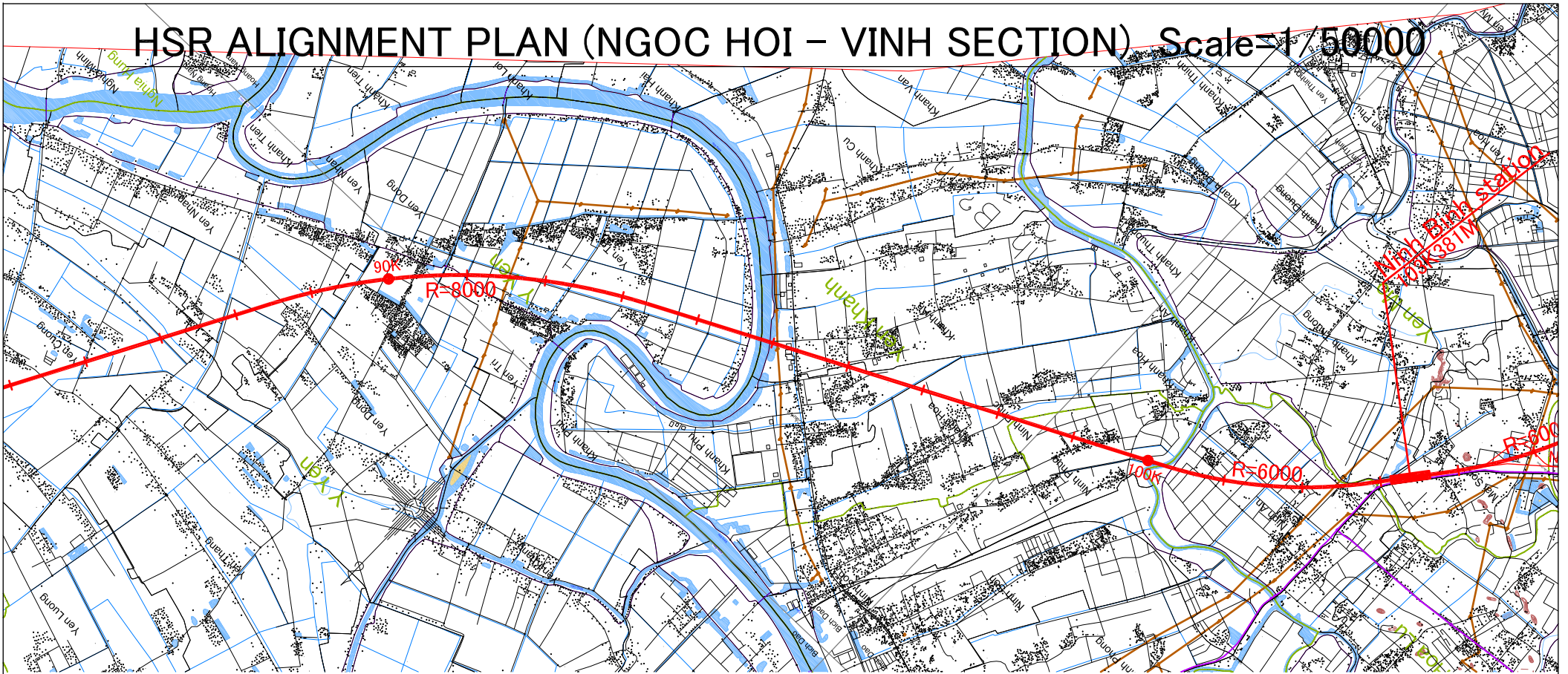
LONGITUDINAL GRADE (%) DO DOC DOC (%) (m)	$i=0.2\%$ $L=926.00m$		$i=0.2\%$ $L=1376.00m$		$i=0.0\%$ $L=6668.00m$						$i=0.4\%$ $L=1080.00m$		$i=0.0\%$ $L=1000.00m$		$i=0.2\%$ $L=2631.00m$		
FINISH ELEVATION (M) CAO DO THIET KE (M)	10.6 10.8	12.9 12.6	10.6 10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.8 14.5	14.5	14.5	12.8	10.8	9.2 9.2	9.2
EXISTING ELEVATION (m) CAO DO TU NHIEU (m)	3.1 3.0	2.9 2.9	2.7 2.6	2.5	2.5	2.5	2.5	2.5	2.3	1.6 1.5	1.6 1.9	2.4 2.4	2.2	2.0	1.7 1.6	1.1	
ACCUMULATED DISTANCE (m) KHOANG CACH CONG DON (m)	56920.00 57000.00	57840.00 58000.00	59000.00 59216.00	60000.00	61000.00	62000.00	63000.00	64000.00	65000.00	66000.00 66084.00	67000.00 67164.00	68000.00 68164.00	69000.00	70000.00	70795.00 71000.00	72000.00	
HORIZONTAL GEOMETRY DUONG THANG, DUONG CONG	L=7273m		R=6000m L=5851m						L=1061m		R=6000m L=4102m						

# HSR ALIGNMENT PLAN (NGOC HOI - VINH SECTION) Scale=1/50000



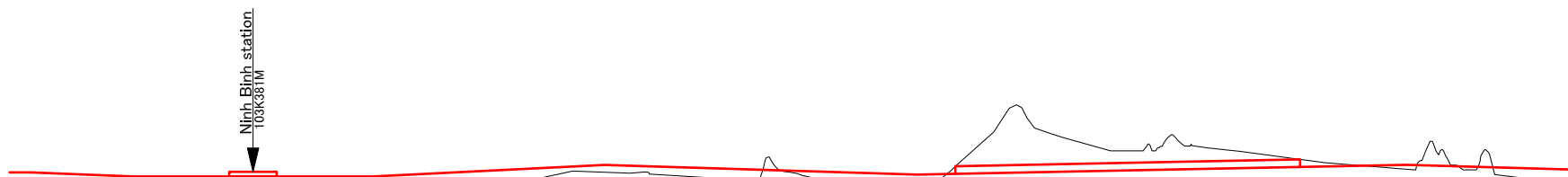
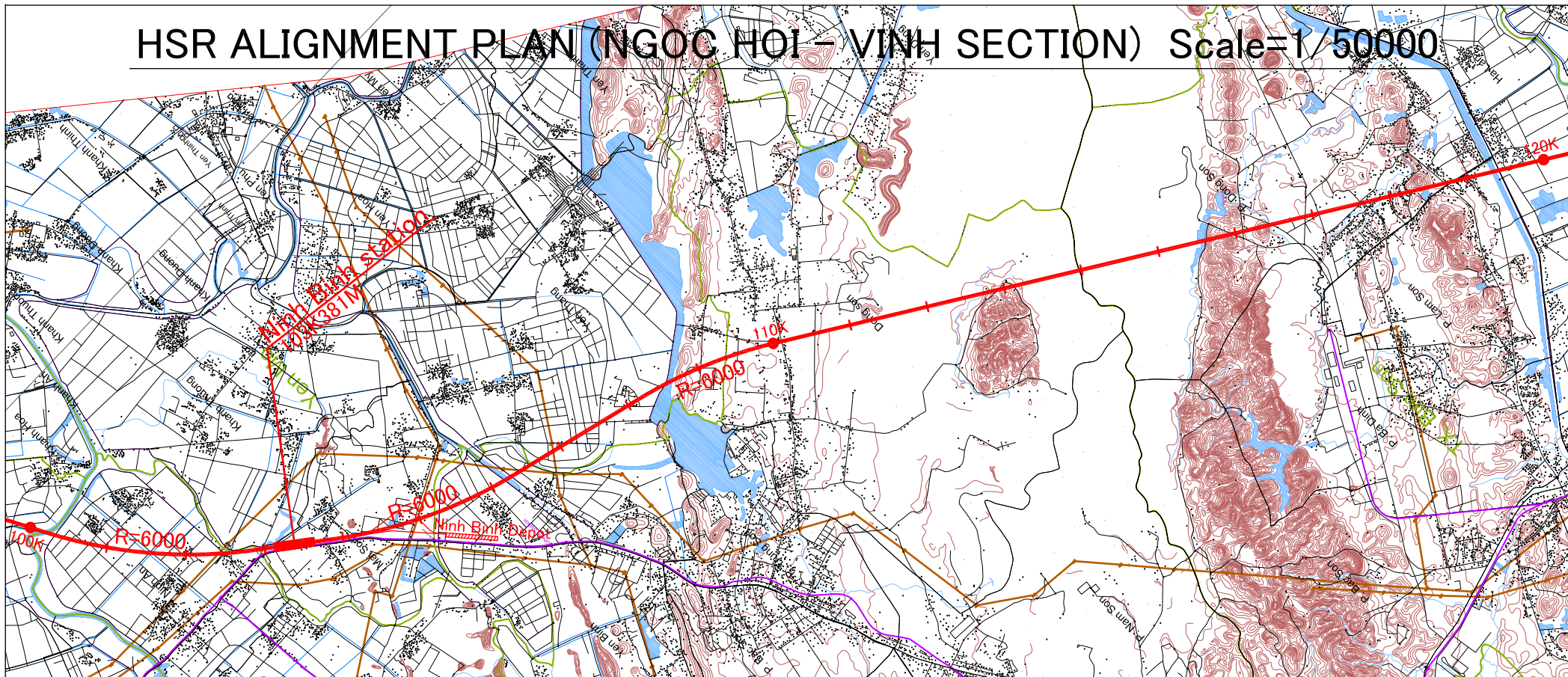
LONGITUDINAL GRADE (%)	—																					
DO DOC DOC (%) (m)	F=0.0% L=4926.00m		F=0.2% L=593.00m		F=0.2% L=593.00m		F=0.0% L=2507.00m		F=0.2% L=1507.00m		F=0.0% L=6353.00m											
FINISH ELEVATION (M)	9.2	9.2	9.2	9.2	9.2	9.2	9.8	11.0	10.2	9.0	9.0	9.0	9.0	9.0	10.8	12.0	12.0	12.0	12.0	12.0	12.0	
CAO DO THIET KE (M)	1.6	1.1	1.1	1.2	1.0	1.0	1.0	1.0	1.5	1.2	1.0	1.4	1.5	2.0	2.1	2.0	1.8	2.4	3.0	3.7	4.4	
EXISTING ELEVATION (m)	71000.00	72000.00	73000.00	74000.00	75000.00	75721.00	76000.00	76620.00	77000.00	77613.00	78000.00	79000.00	80000.00	80120.00	81000.00	81627.00	82000.00	83000.00	84000.00	85000.00	86000.00	87000.00
CAO DO TU NHEN (m)																						
ACCUMULATED DISTANCE (m)																						
KHOANG CACH CONG DON (m)																						
HORIZONTAL GEOMETRY	L=5700m					R=6000m					L=8386m											
DUONG THANG, DUONG CONG																						

# HSR ALIGNMENT PLAN (NGOC HOI – VINH SECTION) Scale=1/50000



LONGITUDINAL GRADE (%) DO DOC DOC (%) (m)			i=0.2% L=1118.00m		i=0.0% L=1117.00m		i=0.2% L=1818.00m		i=0.0% L=6009.00m		i=0.4% L=1088.00m						
FINISH ELEVATION (M) CAO DO THIET KE (M)	12.0	12.0	12.0 12.1	13.6 13.7	13.7	13.7	15.3	17.3 17.4	17.4	17.4	17.4	13.5 13.0					
EXISTING ELEVATION (m) CAO DO TU NHIEU (m)	3.7	4.4	4.5 4.5	4.7 4.8	5.0	5.3	5.7	6.1 6.2	6.6	7.0 7.1	7.5	8.0	8.4	8.9	9.4	9.8 9.9	10.0 10.0
ACCUMULATED DISTANCE (m) KHOANG CACH CONG DON (m)	86000.00	87000.00	87980.00 88000.00	89000.00 89098.00	90000.00	91000.00	92000.00	93000.00 93215.00	94000.00	95000.00 95034.00	96000.00	97000.00	98000.00	99000.00	100000.00	101000.00 101043.00	102000.00 102131.00
HORIZONTAL GEOMETRY DUONG THANG, DUONG CONG					R=8000m L=4853m				L=6900m						L=2655m R=6000m		

# HSR ALIGNMENT PLAN (NGOC HOI - VINH SECTION) Scale=1/50000



LONGITUDINAL GRADE (%) DO DOC DOC (%) (m)	$i=0.4\%$ $L=1068.00m$		$F=0.0\%$ $L=2500.00m$		$i=0.9\%$ $L=2443.00m$		$i=0.3\%$ $L=3297.00m$		$i=0.2\%$ $L=5134.00m$														
FINISH ELEVATION (M) CAO DO THIET KE (M)	17.4	17.4	13.5	13.0	13.0	13.0	14.8	19.8	24.8	25.2	22.3	19.2	16.1	15.0	16.3	18.3	20.3	22.3	24.3	25.3	23.9	21.0	
EXISTING ELEVATION (m) CAO DO TU NHEN (m)	9.8	9.9	10.0	10.0	10.0	10.0	10.1	10.3	17.8	17.5	12.8	17.8	10.0	10.0	44.9	51.0	54.3	36.2	24.7	20.6	25.0	10.0	
ACCUMULATED DISTANCE (m) KHOANG CACH CONG DON (m)	101000.00	101043.00	102000.00	102131.00	103000.00	104000.00	104631.00	105000.00	106000.00	107000.00	107074.00	108000.00	109000.00	110000.00	110371.00	111000.00	112000.00	113000.00	114000.00	115000.00	115505.00	116000.00	117000.00
HORIZONTAL GEOMETRY DUONG THANG, DUONG CONG	$L=2655m$ $R=6000m$		$L=1000m$		$L=2443m$ $R=6000m$		$L=1832m$		$R=6000m$ $L=1872m$														