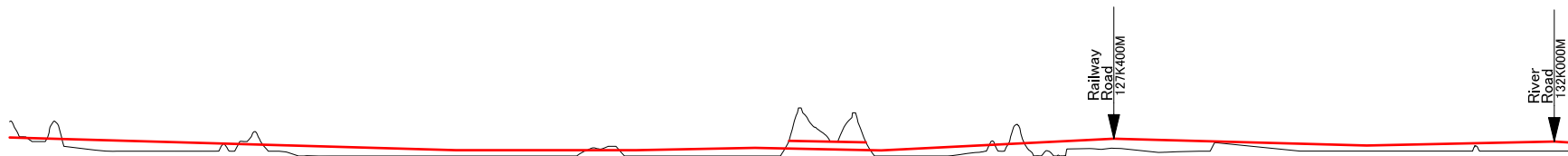
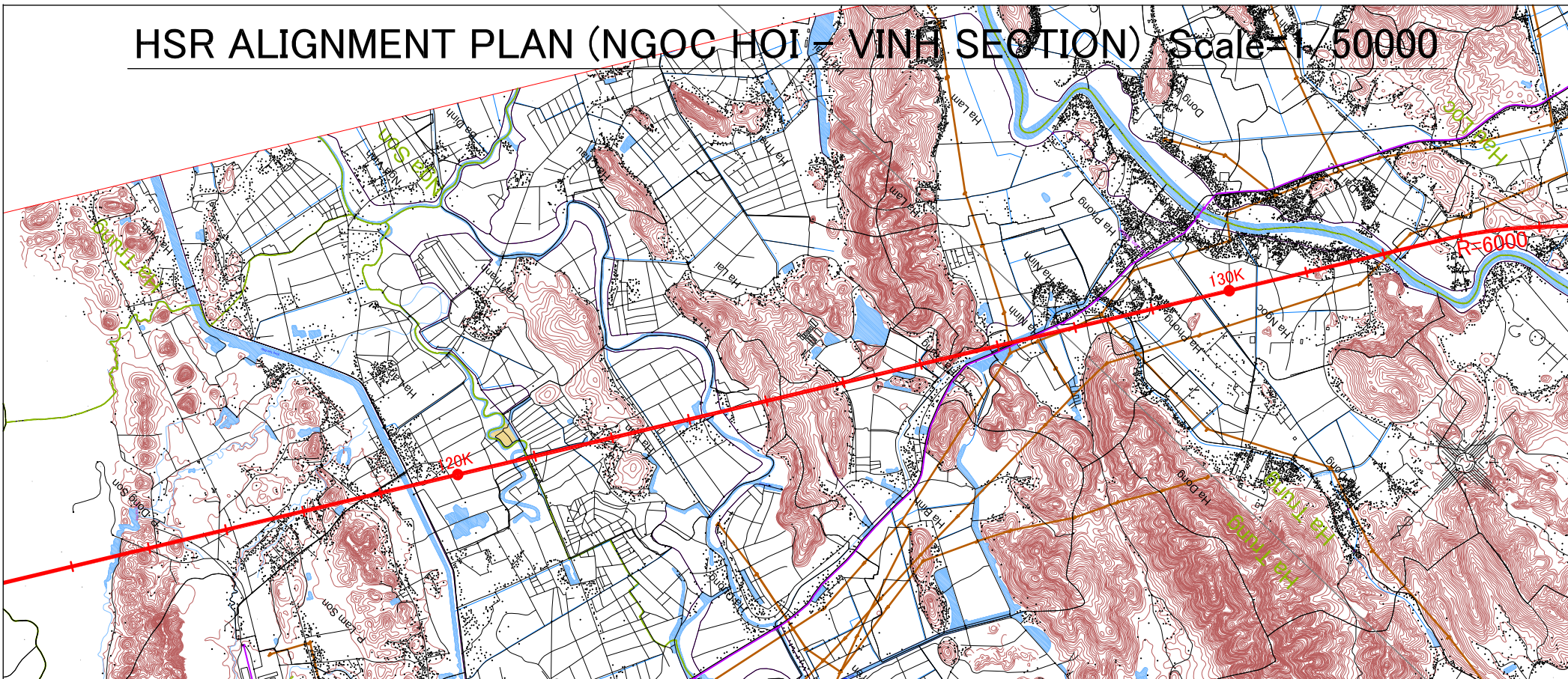
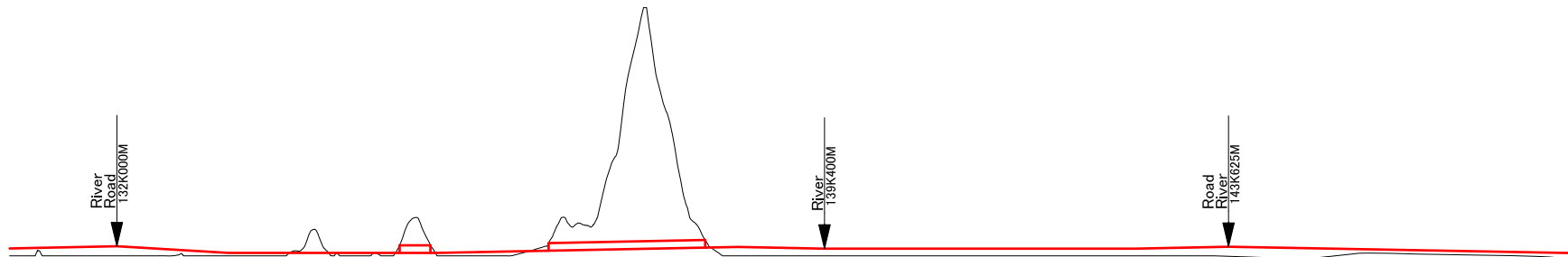
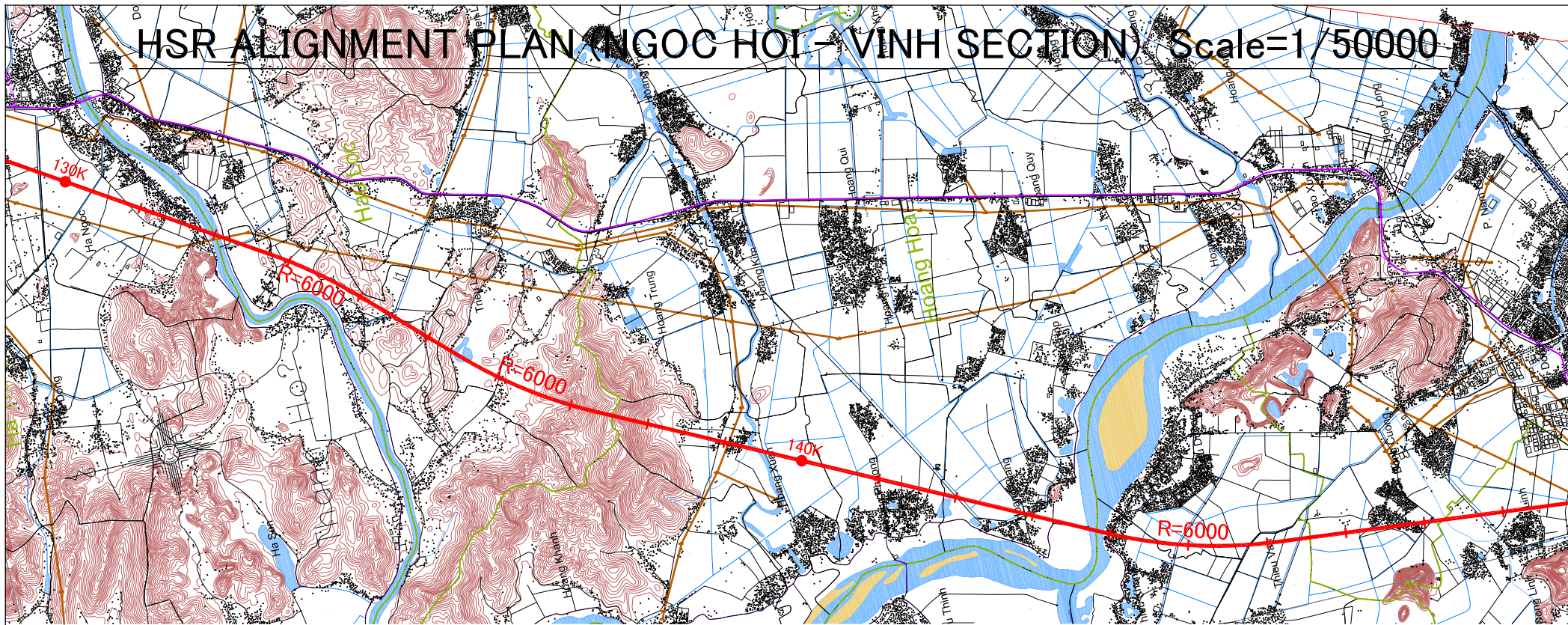


HSR ALIGNMENT PLAN (NGOC HOI - VINH SECTION) Scale=1/50000



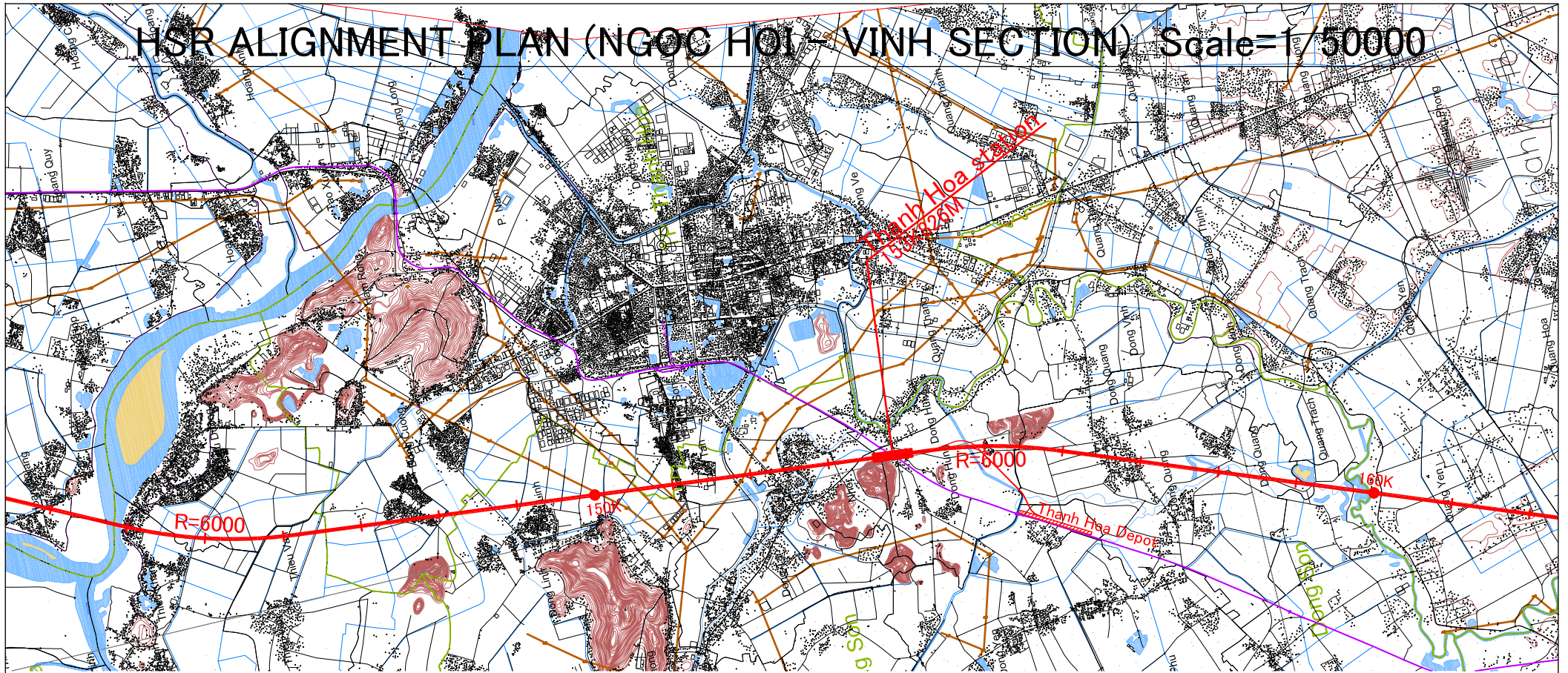
LONGITUDINAL GRADE (%) DO DOC DOC (%) (m)	$i = -0.3\%$ L=5023.00m																	$i = 0.0\%$ L=1882.00m		$i = 0.2\%$ L=1241.00m		$i = 0.2\%$ L=1319.00m		$i = 0.5\%$ L=2436.00m		$i = 0.3\%$ L=2641.00m		$i = 0.2\%$ L=1958.00m	
FINISH ELEVATION (M) CAO DO THIET KE (M)	23.9	21.0	18.2	15.3	12.5	11.0	11.0	11.0	11.0	12.2	13.5	12.8	10.8	11.0	16.0	21.0	23.0	21.4	18.7	16.0	15.9	17.9	20.0						
EXISTING ELEVATION (m) CAO DO TU NHEN (m)	25.0	10.0	10.0	5.1	5.0	5.0	5.0	12.7	5.0	5.0	5.0	19.0	5.0	5.0	8.9	12.4	13.0	9.1	13.4	10.0	10.0	10.0	10.0						
ACCUMULATED DISTANCE (m) KHOANG CACH CONG DON (m)	118000.00	117000.00	118000.00	119000.00	120000.00	120528.00	121000.00	122000.00	122410.00	123000.00	123651.00	124000.00	124970.00	125000.00	126000.00	127000.00	127400.00	128000.00	129000.00	130000.00	130041.00	131000.00	132000.00						
HORIZONTAL GEOMETRY DUONG THANG, DUONG CONG	L=22743m																												

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



LONGITUDINAL GRADE (%) DO DOC DOC (%) (m)	F=0.2% L=1859.00m		F=0.6% L=1167.00m		F=0.0% L=2180.00m		F=0.2% L=3152.00m		F=0.2% L=501.00m		F=0.0% L=3243.00m		F=0.2% L=582.00m		F=0.2% L=3809.00m									
FINISH ELEVATION (M) CAO DO THIET KE (M)	17.9	20.0	14.0	13.0	13.0	13.0	14.3	16.3	18.3	19.3	18.3	17.5	17.5	17.5	17.5	18.2	19.5	18.8	17.0	15.1	13.3			
EXISTING ELEVATION (m) CAO DO TU NHEN (m)	10.0	10.0	10.0	10.0	29.9	32.7	10.0	10.0	45.1	48.4	10.0	10.0	10.0	10.0	10.0	10.0	9.5	8.1	12.7	11.1	8.6			
ACCUMULATED DISTANCE (m) KHOANG CACH CONG DON (m)	131000.00	132000.00	133000.00	133167.00	134000.00	135000.00	135347.00	136000.00	137000.00	138000.00	138499.00	139000.00	139400.00	140000.00	141000.00	142000.00	142643.00	143000.00	143625.00	144000.00	145000.00	146000.00	147000.00	
HORIZONTAL GEOMETRY DUONG THANG, DUONG CONG	R=6000m		L=1527m		L=1832m		R=6000m		L=6627m		L=2194m		R=6000m											

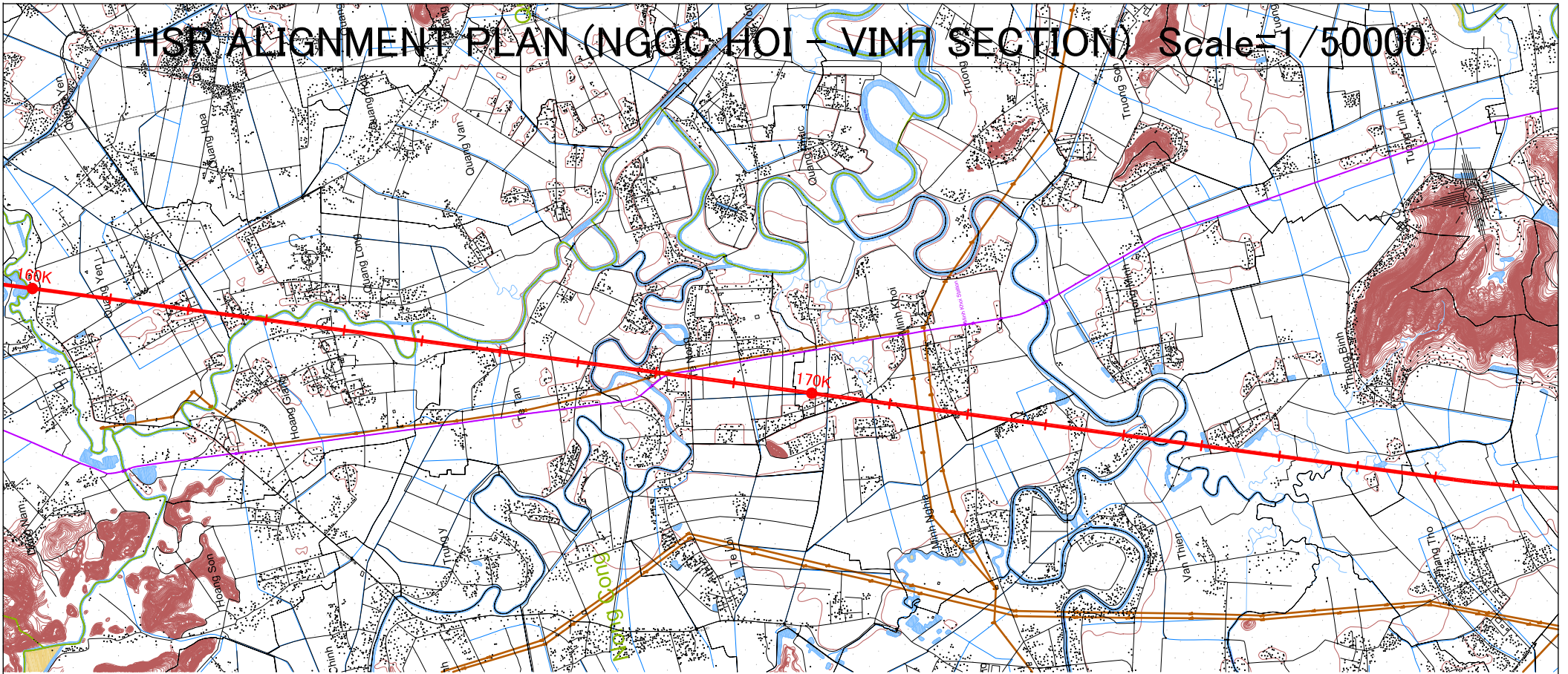
HSR ALIGNMENT PLAN (NGOC HOI - VINH SECTION) Scale=1/50000



Thanh Hoa station
153K326M

LONGITUDINAL GRADE (%) DO DOC DOC (%) (m)																							
FINISH ELEVATION (M) CAO DO THIET KE (M)	15.1	13.3	12.5	12.5	12.5	12.5	12.5	13.6	15.6	17.0	17.0	17.0	17.0	13.6	12.5	12.5	12.5	12.5	12.5	12.5			
EXISTING ELEVATION (m) CAO DO TU NHEN (m)	11.1	8.6	5.0	5.0	5.0	5.0	5.6	5.9	6.2	6.2	6.0	6.0	5.0	5.0	5.0	5.0	5.0	4.9	4.6	4.3	4.2	4.8	5.0
ACCUMULATED DISTANCE (m) KHOANG CACH CONG DON (m)	146000.00	147000.00	147434.00	148000.00	149000.00	150000.00	150452.00	151000.00	152000.00	152701.00	153000.00	153000.00	154000.00	154326.00	155000.00	155226.00	156000.00	157000.00	158000.00	159000.00	160000.00	161000.00	162000.00
HORIZONTAL GEOMETRY DUONG THANG, DUONG CONG	L=8184m										R=6000m L=1596m												

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



LONGITUDINAL GRADE (%) DO DOC DOC (%) (m)																					
FINISH ELEVATION (M) CAO DO THIET KE (M)	12.5	12.5	12.5	12.5	12.5	11.1	9.1	8.3	9.5	11.5	12.0	10.4	10.0	10.0	10.0	10.0	10.0	10.0	8.2	4.5	4.5
EXISTING ELEVATION (m) CAO DO TU NHEN (m)	4.8	5.0	5.0	5.0	5.0	3.2	1.0	1.3	1.5	2.0	2.0	2.0	1.8	1.9	2.0	2.0	2.2	2.5	2.5	2.5	2.5
ACCUMULATED DISTANCE (m) KHOANG CACH CONG DON (m)	161000.00	162000.00	163000.00	164000.00	164283.00	165000.00	166000.00	166381.00	167000.00	168000.00	168220.00	169000.00	169211.00	170000.00	171000.00	172000.00	173000.00	174000.00	175000.00	175540.00	176000.00
HORIZONTAL GEOMETRY DUONG THANG, DUONG CONG	L=22310m																				