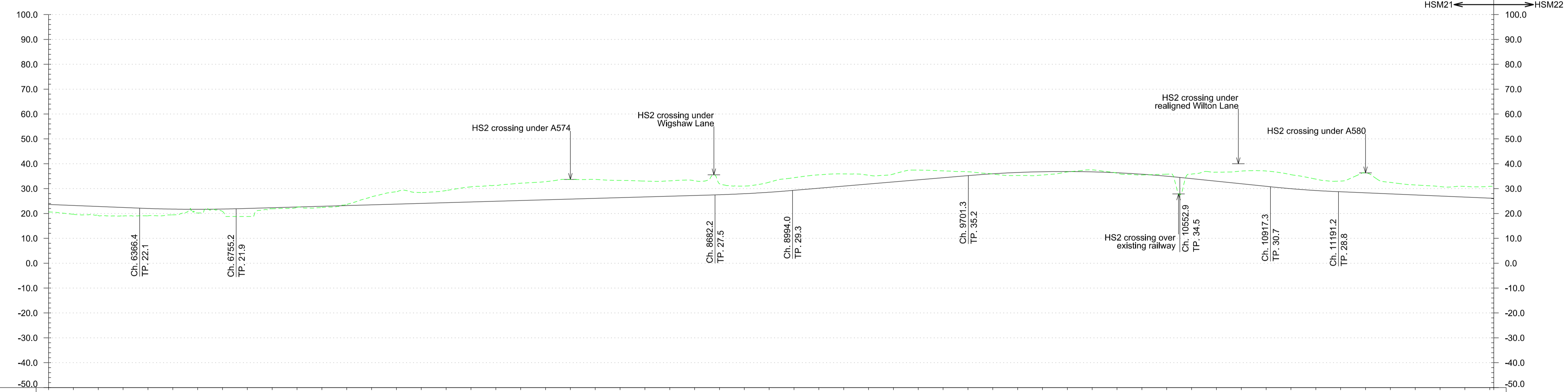


Plan  
Scale 1:10,000 @ A1



Chainage	6+000	6+100	6+200	6+300	6+400	6+500	6+600	6+700	6+800	6+900	7+000	7+100	7+200	7+300	7+400	7+500	7+600	7+700	7+800	7+900	8+000	8+100	8+200	8+300	8+400	8+500	8+600	8+700	8+800	8+900	9+000	9+100	9+200	9+300	9+400	9+500	9+600	9+700	9+800	9+900	10+000	10+100	10+200	10+300	10+400	10+500	10+600	10+700	10+800	10+900	11+000	11+100	11+200	11+300	11+400	11+500	11+600	11+700	11+800	11+816		
Horizontal Alignment	R=5900.0m L=2934.7m															TL=400.0m		TL=340.0m		R=3805.0m L=3283.8m															TL=340.0m		L=283.2m																									
Vertical Alignment	L=306.0m G=-0.41%		L=388.8m R=56000m		L=1926.9m G=0.29%															L=311.9m R=56000m		L=707.3m G=0.85%		L=851.5m R=45500m			L=364.4m G=-1.03%		L=273.8m R=45500m		L=625.0m G=-0.42%																															
Existing Level	20.6	19.7	19.2	19.0	19.1	19.4	20.2	20.8	18.8	21.9	22.5	22.4	23.6	26.7	28.8	28.5	29.2	30.7	31.2	32.2	32.8	33.7	33.7	33.3	33.0	33.1	33.2	32.0	31.0	28.0	28.5	32.6	34.4	35.5	35.5	37.4	37.1	36.8	35.9	35.3	35.5	36.7	37.5	36.2	35.5	35.8	35.8	36.6	37.0	37.1	37.1	35.6	33.8	33.0	33.0	36.3	32.5	31.5	30.8	30.9	30.9	31.0
Proposed Track Level	23.6	23.2	22.8	22.4	22.0	21.8	21.7	21.8	22.0	22.3	22.6	22.9	23.2	23.5	23.8	24.1	24.4	24.6	24.9	25.2	25.5	25.8	26.1	26.4	26.7	27.0	27.2	27.5	28.0	28.5	29.3	30.2	31.0	31.8	32.7	33.5	34.4	35.2	36.0	36.5	36.8	37.0	37.1	36.9	36.7	36.4	35.8	35.0	34.0	33.0	31.9	30.9	30.0	29.2	28.7	28.3	27.9	27.4	27.0	26.6	26.2	26.2
Cut and Fill	+3.0	+3.5	+3.6	+3.4	+2.9	+2.4	+1.5	+1.0	+3.2	+0.4	+0.1	+0.5	-0.4	-3.2	-5.0	-4.4	-4.8	-6.1	-6.3	-7.0	-7.3	-7.9	-7.6	-6.9	-6.3	-6.1	-6.0	-4.5	-3.0	-4.1	-5.1	-5.3	-4.9	-3.6	-3.2	-3.9	-2.7	-1.6	+0.1	+1.2	+1.3	+0.2	-0.8	+0.2	+0.3	-0.8	-1.8	-3.6	-5.1	-6.2	-5.6	-4.6	-4.3	-8.0	-4.6	-4.1	-3.8	-4.3	-4.7			
Maximum Speed	360 km/h															300 km/h																																														

Profile  
Scale H:1:10,000 V:1:1000 @ A1

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**Key Environmental Features Legend**

- World Heritage Site
- Ramsar
- Special Areas of Conservation
- Special Protection Areas
- SSSI
- National Nature Reserves
- Area of Outstanding Natural Beauty
- National Park
- Scheduled Monuments
- Registered Parks and Gardens
- Historical Battlefields
- Active and/or Authorised Landfill
- Historical Landfill
- Flood Zone 3

**Legend**

- Alignment Centreline
- Viaduct / Tunnel / Fully Retained Cutting
- Major Contour
- Minor Contour
- Node
- Retained structures will be used at depths of 15m or greater
- Railway Cutting
- Railway Embankment
- Highway Cutting
- Highway Embankment

P6	23.11.12	JFF	RC	TW
P5	16.11.12	JA	RC	TW
P4	30.10.12	VS	RC	TW
P3	18.10.12	JA	RC	TW
P2	31.08.12	AS	RC	TW
P1	20.03.12	MM	RC	TW
Issue	Date	By	Chkd	Appd

Client: **hs2**

Job Title: **HS2 West Midlands to Manchester Initial Preferred Route December 2012**

Scale at A1: **1:10000**

Discipline: **Rail**

**MSG**  
MOTT MACDONALD SCOTT WILSON GRIMSHAW

Drawing Title: **Route HSM21 Plan and Profile Sheet 2 of 2**

Drawing Status: **-**

Drawing No: **HS2-MSG-MR0-ZZ-DR-RT-52102**

Job No: **277592**

Issue: **P6**