



Chainage	21+000	21+100	21+200	21+300	21+400	21+500	21+600	21+700	21+800	21+900	22+000	22+100	22+200	22+300	22+400	22+500	22+600	22+700	22+800	22+900	23+000	23+100	23+200	23+300	23+400	23+500	23+600	23+700	23+800	23+900	24+000	
Horizontal Alignment	L=7690.6m																TL=180.0m															
Vertical Alignment																	L=6048.4m G=0.20%															
Existing Level	33.2	33.2	33.3	33.4	33.4	33.6	34.2	34.6	35.0	36.6	36.4	36.4	36.4	35.6	36.0	36.2	36.5	37.5	38.5	38.8	39.0	39.6	39.4	39.8	41.6	44.7	45.1	44.1	43.6	43.1	42.7	
Proposed Track Level	-0.7	-0.5	-0.3	-0.1	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.3	
Cut and Fill	-33.9	-33.7	-33.6	-33.5	-33.3	-33.3	-33.7	-33.9	-34.1	-35.5	-35.1	-34.9	-34.1	-33.7	-33.9	-33.9	-34.0	-34.8	-35.6	-35.7	-35.7	-36.1	-35.7	-35.9	-37.5	-40.4	-40.6	-39.4	-38.7	-38.0	-37.4	
Maximum Speed	230 km/h																															

Profile
Scale H:1:5,000 V:1:500 @ 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

Issue	Date	By	Chkd	Appd
P6	23.11.12	JFF	RC	TW
P5	16.11.12	JA	RC	TW
P4	30.10.12	JFF	RC	TW
P3	19.10.12	JA	RC	TW
P2	31.08.12	MM	RC	TW
P1	20.03.12	MM	RC	TW

Client

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

Scale at A1
1:5000

Discipline
Rail

MOTT MACDONALD SCOTT WILSON GRIMSHAW

Drawing Title
**Route HSM28
Plan and Profile
Sheet 8 of 9**

Drawing Status
-

Job No
277592

Drawing No
HS2-MSG-MA0-ZZ-DR-RT-52808

Issue
P6