



Chainage	18+200	19+300	19+400	19+500	19+600	19+700	19+800	19+900	20+000	20+100	20+200	20+300	20+400	20+500	20+600	20+700	20+800	20+900	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																														
Horizontal Alignment	R=10000.0 L=1096.1										L=290.0										L=1544.8										L=290.0										R=10000.0 L=400.0										L=290.0										L=209.9									
Vertical Alignment	L=472.0 R=47000.0										L=2724.8 G=0.06%										L=392.4 R=32000.0										L=515.8 G=-1.17%																																							
Existing Ground Level	48.2	60.5	81.1	85.8	88.8	67.4	65.9	65.9	63.6	64.4	61.3	63.4	66.2	66.2	69.8	75.1	84.9	92.2	90.0	85.3	80.2	77.8	75.2	69.4	69.2	68.8	68.8	70.9	75.5	74.8	71.2	68.3	66.5	65.9	63.5	58.7	54.1	57.4	61.8	62.4	64.9	61.7	60.5	66.4																										
Proposed Track Level	64.7	65.3	65.6	65.8	65.8	65.9	65.9	66.0	66.1	66.1	66.2	66.2	66.2	66.3	66.3	66.4	66.4	66.4	66.5	66.6	66.6	66.7	66.7	66.8	66.8	66.9	66.9	67.0	67.1	67.1	67.2	67.2	67.2	67.3	67.2	66.9	66.2	65.2	64.0	62.9	61.7	60.5	69.2																											
Cut and Fill	+16.5	+4.8	-15.5	-20.0	-3.0	-1.5	+0.0	+2.4	+1.7	+4.8	+2.8	+0.0	-3.5	-8.8	-18.5	-25.8	-23.5	-18.7	-13.6	-11.1	-8.5	-2.6	-2.4	-1.9	-4.0	-8.5	-7.7	-4.1	-1.1	-0.7	+1.4	+3.7	+8.2	+12.1	+7.8	+2.2	+0.5	-3.2	-5.7	-7.2																														
Maximum Speed:	360km/h																																																																					

Profile  
Scale H 1:10000 V 1:1000 @ A1

© Crown copyright and database rights 2012 Ordnance Survey 100049190

**Key Environmental Features Legend**

- World Heritage Site
- Ramsar
- Special Areas of Conservation
- Special Protection Areas
- SSSI
- National Nature Reserve
- Area of Outstanding Natural Beauty
- National Park
- Scheduled Monument
- Registered Parks and Gardens
- Historical Battlefields
- Active and/or Authorised Landfill
- Historic Landfill
- Flood Risk Zones

**Legend**

- Alignment Centreline
- Viaduct / Tunnel / Retained Structure
- Major Contour
- Minor Contour
- Node
- Railway Cutting
- Railway Embankment
- Highway Cutting
- Highway Embankment

3.0	- /12/12	LK	MP	CL
2.0	- /12/12	LK	MP	CL
Issue	Date	By	Chkd	Appd

Client: **hs2**

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

Scale at A1: 1:10000

Discipline: Rail

**ARUP**

Drawing Title: **Route HSL16 Plan and Profile Sheet 4 of 4**

Drawing Status: **Issue**

Job No: **214866-00**

Drawing No: **HS2-ARP-LR0-DR-RT-55171**

Issue: **3.0**