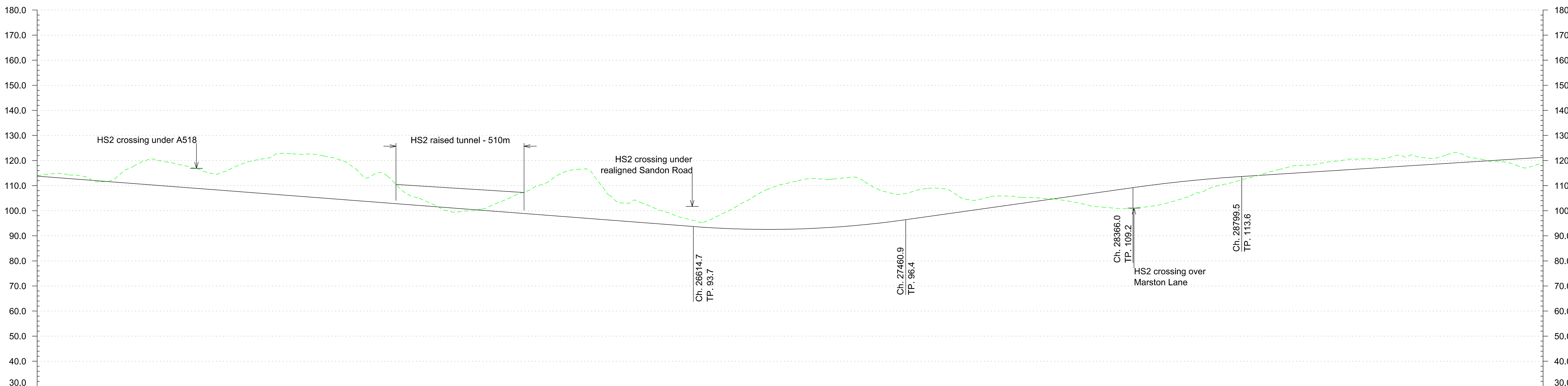
Plan

Scale 1:10,000 @ A1



Horizontal Alignment: R=12000.0m, L=6652.4m; TL=260.0m; L=1452.8m; TL=200.0m; R=16000.0m, L=2106.9m

Vertical Alignment: L=3157.0m, G=-0.77%; L=846.2m, R=38800m; L=905.2m, G=1.41%; L=433.5m, R=56000m; L=2494.7m, G=0.64%

Maximum Speed: 400 km/h

Chainage	Existing Level	Proposed Track Level	Cut and Fill
24+000	113.8	113.8	0.0
24+100	114.8	113.0	-1.8
24+200	113.2	112.3	-0.9
24+300	112.3	111.5	-0.8
24+400	118.6	110.7	-7.9
24+500	119.9	110.0	-9.9
24+600	117.7	109.2	-8.5
24+700	114.8	108.4	-6.4
24+800	118.0	107.6	-10.4
24+900	120.7	106.9	-13.8
25+000	122.8	106.1	-16.7
25+100	122.5	105.3	-17.2
25+200	120.5	104.6	-15.9
25+300	113.6	103.8	-9.8
25+400	113.5	103.0	-10.5
25+500	105.5	102.3	-3.2
25+600	101.4	101.5	+0.1
25+700	99.9	100.7	+0.8
25+800	101.6	100.0	-1.6
25+900	105.9	99.2	-6.7
26+000	110.1	98.4	-11.7
26+100	115.4	97.7	-17.7
26+200	116.4	96.9	-19.5
26+300	104.5	96.1	-8.4
26+400	103.5	95.3	-8.2
26+500	99.7	94.6	-5.1
26+600	96.5	93.8	-2.7
26+700	97.3	93.1	-4.2
26+800	102.6	92.7	-9.9
26+900	108.1	92.5	-15.6
27+000	111.2	92.6	-18.6
27+100	112.8	93.0	-19.8
27+200	112.9	93.6	-19.3
27+300	111.4	94.5	-16.9
27+400	107.0	95.6	-11.4
27+500	108.0	97.0	-11.0
27+600	108.9	98.4	-10.5
27+700	104.6	99.8	-4.8
27+800	105.6	101.2	-4.4
27+900	105.5	102.6	-2.9
28+000	105.0	104.0	-1.0
28+100	104.0	105.4	+1.4
28+200	101.9	106.9	+5.0
28+300	100.9	108.3	+7.4
28+400	101.4	109.7	+8.3
28+500	103.0	110.9	+7.9
28+600	106.2	112.0	+5.8
28+700	109.9	112.9	+3.0
28+800	112.3	113.6	+1.3
28+900	115.2	114.3	-0.9
29+000	117.7	114.9	-2.8
29+100	118.6	115.6	-3.0
29+200	120.1	116.2	-3.9
29+300	120.7	116.8	-3.9
29+400	121.6	117.5	-4.1
29+500	121.5	118.1	-3.4
29+600	121.7	118.8	-2.9
29+700	121.5	119.4	-2.1
29+800	119.6	120.0	+0.4
29+900	117.8	120.7	+2.9
30+000	119.5	121.3	+1.8

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

1:10000 200m 0 200m 400m 600m 800m 1000m

Legend

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

Retained structures will be used at depths of 15m or greater

1:1000 20m 0 20m 40m 60m 80m 100m

Do not scale

Issue	Date	By	Chkd	Appd
P4	23.11.12	JA	RC	TW
P3	16.11.12	VS	RC	TW
P2	30.10.12	AS	RC	TW
P1	18.10.12	AS	RC	TW

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 HSM03 Plan and Profile Sheet 5 of 7

Drawing Status: -

Job No: 277592

Drawing No: HS2-MSG-MR0-ZZ-DR-RT-60305

Issue: P4