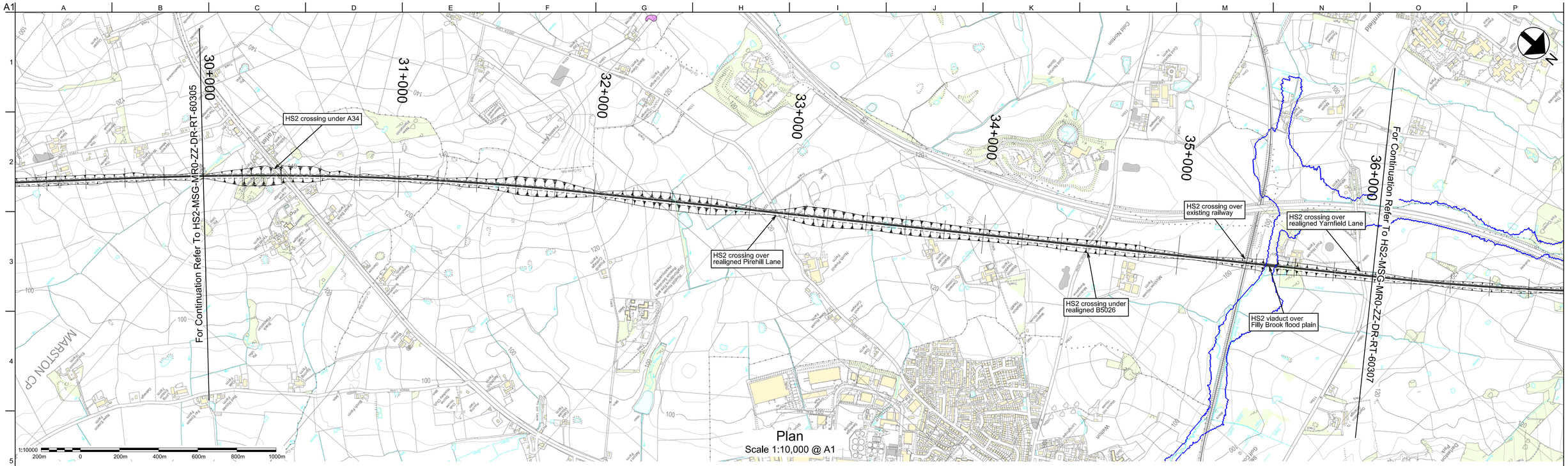
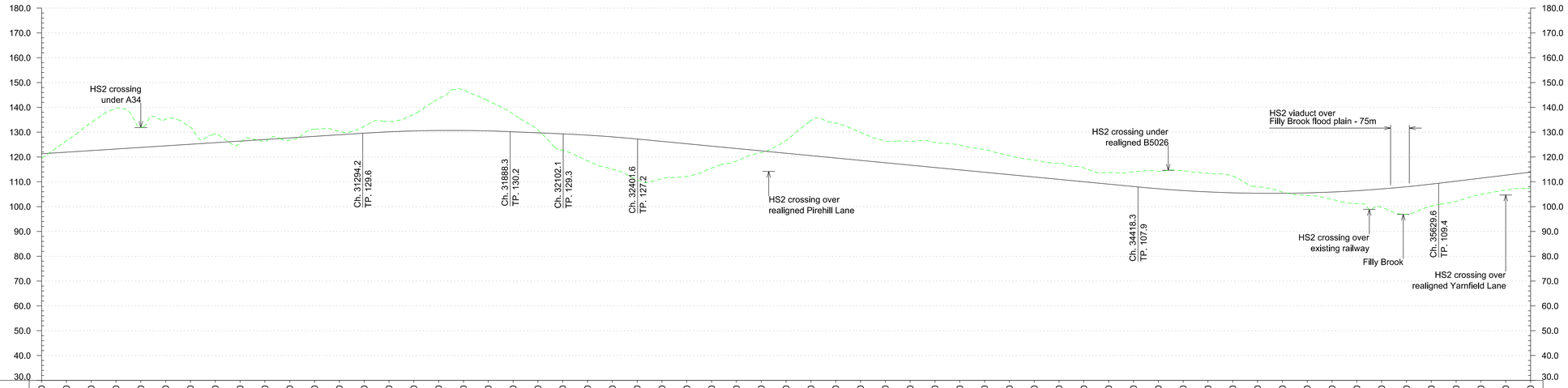


Plan

Scale 1:10,000 @ A1



Chainage	Horizontal Alignment	Vertical Alignment	Existing Level	Proposed Track Level	Cut and Fill
30+000	R=16000.0m L=2106.9m	L=2494.7m G=0.64%	119.5	121.3	+1.8
30+100			126.6	121.9	-4.7
30+200			133.9	122.6	-11.3
30+300			139.6	123.2	-16.4
30+400			131.8	123.9	-7.9
30+500			135.2	124.5	-10.7
30+600			132.0	125.1	-6.9
30+700			129.3	125.8	-3.5
30+800			125.6	126.4	+0.8
30+900			126.3	127.0	+0.7
31+000			126.8	127.7	+0.9
31+100			131.2	128.3	-2.9
31+200			130.3	129.0	-1.3
31+300			132.3	129.6	-2.7
31+400		L=594.1m R=56000m	134.3	130.1	-4.2
31+500			137.2	130.5	-6.7
31+600			143.4	130.7	-12.7
31+700			147.0	130.7	-16.3
31+800			142.6	130.5	-12.1
31+900	TL=200.0m	L=213.8m G=-0.42%	137.3	130.2	-7.1
32+000			130.9	129.7	-1.2
32+100		L=299.5m R=56000m	122.8	129.3	+6.5
32+200			118.4	128.8	+10.4
32+300			115.1	128.1	+13.0
32+400			110.9	127.2	+16.3
32+500		L=2016.7m G=-0.96%	111.3	126.3	+15.0
32+600			112.2	125.3	+13.1
32+700			115.5	124.4	+8.9
32+800			118.4	123.4	+5.0
32+900			121.8	122.5	+0.7
33+000			126.7	121.5	-5.2
33+100			134.7	120.5	-14.2
33+200			133.6	119.6	-14.0
33+300			129.9	118.6	-11.3
33+400			126.4	117.7	-8.7
33+500			126.3	116.7	-9.6
33+600			125.9	115.8	-10.1
33+700			124.8	114.8	-10.0
33+800			122.9	113.8	-9.1
33+900			120.5	112.9	-7.6
34+000			118.8	111.9	-6.9
34+100			117.5	111.0	-6.5
34+200			115.6	110.0	-5.6
34+300			113.7	109.0	-4.7
34+400			114.0	108.1	-5.9
34+500		L=1211.3m R=56000m	114.2	107.2	-7.0
34+600			114.5	106.5	-8.0
34+700			113.4	105.9	-7.5
34+800			112.3	105.6	-6.7
34+900			108.0	105.4	-2.6
35+000			105.9	105.4	-0.5
35+100			104.5	105.5	+1.0
35+200			102.9	105.9	+3.0
35+300			101.2	106.4	+5.2
35+400			99.7	107.1	+7.4
35+500			96.9	108.0	+11.1
35+600			100.2	109.1	+8.9
35+700			102.1	110.3	+8.2
35+800			104.9	111.5	+6.6
35+900		L=1665.1m G=1.21%	106.7	112.7	+6.0
36+000	TL=260.0m		107.3	113.9	+6.6

Maximum Speed: 400 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
- 10 Major Contour
- Minor Contour
- Node
- Railway Cutting
- Railway Embankment
- Highway Cutting
- Highway Embankment

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

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

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 6 of 7

Drawing Status: -

Job No: 277592

Drawing No: HS2-MSG-MR0-ZZ-DR-RT-60306

Issue: P4