

Appendix 2 - List of Options Generated at Workshop

- | | Option |
|----|---|
| 1 | 25kV in track (low level) with system switched on when train is in section |
| 2 | 3rd Rail (also 4th Rail) |
| 3 | Amend structure - more beautiful sections |
| 4 | Amend structure - more beautiful sections (+ATF moved) |
| 5 | Artificial Fog |
| 6 | ATF removal plus upstands |
| 7 | Bespoke structure (i.e. HS 2 design competition) |
| 8 | Bigger structures further apart |
| 9 | Boom material non conductive remove Small parts steel |
| 10 | Brace structure to make smaller |
| 11 | Camouflage netting/synthetic Ivy/vegetation |
| 12 | Cladding |
| 13 | Coasting |
| 14 | Compensation |
| 15 | Compensatory landscape mitigation |
| 16 | Convert stantions to 'tree structure' |
| 17 | Cut & cover - differentiate between fast and slow lines i.e. fast on top |
| 18 | Cut & cover/cut and lower line |
| 19 | Different form of power for trains (batteries, flywheels, diesel, gas turbines, linear induction motor) |
| 20 | Distraction i.e. Angel of the West |
| 21 | Do Nothing |
| 22 | Earth bunds |
| 23 | Engage the community (get them to build it) |
| 24 | Glass structures (opaque or Transparent) |
| 25 | Green Bridge/tunnel |
| 26 | Higher parapets at overbridges |
| 27 | Influence viewer - i.e. move footpaths |
| 28 | Large structure/Statement Structure |
| 29 | Longitudinal Headspans to increase span |
| 30 | Lower track levels (to lower height of system) |
| 31 | Maglev |
| 32 | Man made screen |
| 33 | Mix of headspans/portals |
| 34 | Modify structures to look Victorian by adding to them |
| 35 | Move ATF inboard |
| 36 | Multiple pantographs to eliminate section of wire |
| 37 | Natural screening (vegetation) |
| 38 | Obstruct the view (close to the railway) |
| 39 | Obstruct the view (close to the viewer) |
| 40 | Offsetting i.e. do something good i.e. planting somewhere else |
| 41 | OLE activated by trains (comes out of 4 foot) |
| 42 | Painting - aged colour |
| 43 | Painting - Artwork (probably look worse - reject) |
| 44 | Painting - camouflage |
| 45 | Painting - different colours post to beam |
| 46 | Painting - graduated colour |
| 47 | Painting - heat sensitive paint (need review if technology) |
| 48 | Painting - Mirror painting /mirrored steelwork |
| 49 | Painting - single colour |
| 50 | Portal structure - radius (curved) |
| 51 | Re route the line |
| 52 | Reduce electrical clearances - challenge standards |
| 53 | Reduced number of tracks or bi-directional tracks |
| 54 | Reduced structural requirements by reducing speed |
| 55 | Relocate mature trees |
| 56 | Remove longitudinal loads - slimmer structures |
| 57 | Rigid headspan |
| 58 | Rigid headspan (and ATF moved) |
| 59 | Rising/falling OLE (like rotary washing line) |
| 60 | Slipform wall down 10 ft |
| 61 | Smaller masts closer together |
| 62 | Solar Panels |
| 63 | Standard Headspan |
| 64 | Strategic planting |
| 65 | Textured coating |
| 66 | transparent/translucent FRP |
| 67 | Turn structures into a sculpture (sails, allow movement to create a moving image) |
| 68 | Ultra black paint |
| 69 | Use different shape portal -(see photo from presentation) - TGV |
| 70 | Use Lattice beams |
| 71 | Use Rock anchors in cutting rather than portals |
| 72 | Use Series 1 TTC's staggered instead of portals |
| 73 | Use the moulford viaduct TTC structures staggered |
| 74 | Use trees as masts |
| 75 | Use viaduct TTC on 2 track sections |
| 76 | Using timber, stone or concrete as alternative material |
| 77 | Viaduct back to back TTC (as per Moulford GA) |
| 78 | Viaduct Portal (as per Moulford GA) |
| 79 | Waterfall wall at viewpoint |