Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/3021 Rev P1

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CAD Drawing

- CIV/SD/3021

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9. All dimensions shown are in millimetres unless stated otherwise.

10. The platform structures are designed for imposed load of 5.0 kN/m². In addition the structures have been checked for 5 kN point load on 300x300mm area. 1.3kN point load on coper edge at 930 centre (one per coper).
Back of platform fencing to BS 1722 pt 9 but with post centres of 2.5m max. to a design loading in accordance with BS 7818. Network Rail preference is straight top with the option of hooped top.
Generally class 2 i.e. rails 0.7 kN/m, posts 1.75kN max transverse point load at top rail level; where crowd loading and/or vandalism is anticipated, class 3 i.e. rails 1.4kN/m, posts 3.5kN max. Infill bar loading in both cases 1kN at 700 centres over individual distributed lengths of 125mm in any direction normal to the bar. Post loads quoted are for 2.5m centres.

11. Materials:
Concrete Blocks: 440x215x100, Density ≥ 1800kg/m³,
Weight – 20kg/block, Compressive Strength ≥ 15N/mm², Use SRPC binder, Aggregates to BS 882 or BS EN 12620 (Solid oversail Blocks if used: 560x220x220 – Weight=48kg/block approx.)

Mortar: Designation (ii) to BS 5628 (1:4 cement : sand), Accelerators are NOT to be used.

Concrete: To BS8500–1 : 2002 and to conform to BS EN 206–1:2000 and BS 8500 –2:2000

All specified manufacturers materials noted on the drawings should be interpreted to be "or similar approved".

	Lamppost & Fence foundations, bottom of ramp footings	Crosswall Foundations	Precast beams	Prestressed planks *	Insitu topping & Infill	Blinding
Grade of concrete	ST5	C35	C40	C50	C40	ST1
Max. aggregates size	20mm	20mm	20mm	20mm	14mm	40mm
Min. cement content	300kg/m³	300kg/m³	320kg/m³	375kg/m³	320kg/m³	240kg/m³
Max. water/cement ratio	0.55	0.55	0.50	0.45	0.55	0.70
Consistence class	S3	S3	N/A	N/A	N/A	S1
Nominal weight proportions (cement : sand : aggregate)	1 : 1 : 2	N/A	N/A	N/A	N/A	1 : 2 : 4

These drawings form a standard set of Network Rail details which should be referred to in the consultants site specific drawings. They should NOT be incorporated within the consultants drawings.

* For other performance criteria for proprietary planks see drawing no. NR/CIV/SD/3022 & 3023

DBM surfacing:
Wearing course – Bitumen Macadam to BS 4987 6mm medium grade 200pen – 25mm Thk.
Base Course – Bitumen Macadam to BS 4987 20mm medium grade 200pen – 50mm Thk.
Sub–base – Granular type 1 material in accordance with specification for Highway works clause 803 – 150mm Thk.

12. Drainage layout and outfall details to be agreed with Network Rail and relevant authority/body.

Choice of drainage system dependant on availability of existing main drainage:
(i) Where main drainage system exists and approval for connection obtained, dished channels, gullies and carrier drain system shall be employed.
(ii) Where main drainage does not exist outfall may be to suitably located soakaway agreed with Network Rail and relevant authority/body.
(iii) Alternatively with agreement of Network Rail and relevant authority/body continuous soakaways provided along rear of platform and drainage channels etc. omitted.
(iv) The use of dished channels can potentially create a trip hazard and is not generally favoured in open areas. Careful consideration is required regarding location when specifying type of drainage.

13. Platform line edging material to be a white brush or roller applied textured masonry finish water–borne acrylic resin based paint formulated for exterior use on concrete. Providing a fine matt textured finish; volume solid 40%, touch dry 1–2 hrs, low VOC content 0.3 – 7.99% film thickness 143 µm (wet) 57 µm (dry).

14. Typical plank depths for varying spans are tabulated on drawing no. NR/CIV/SD/3022 & 3023
15. For araes with electricfied lines earth bonding of lighting coloumns and other metallic structures may be required.
16. All detailed designs shall be subject to an Interdisciplinary Check.
17. Cross walls spacing to take account of coper length of 930mm (+15mm mortar joint) such that expansion joints between planks and copers align.

Rev	Date	Description of revision	Design'd	C'kd
P1				

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Master copy with original signatures held by Network Rail HQ CIVIL ENGINEERING STANDARD DESIGN

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Standard Platform Design

Type 1 Crosswall Platform
Sheet 2 of 15
General Notes

Scale	N/A
Drawing Number	NR/CIV/SD/3021 P1

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