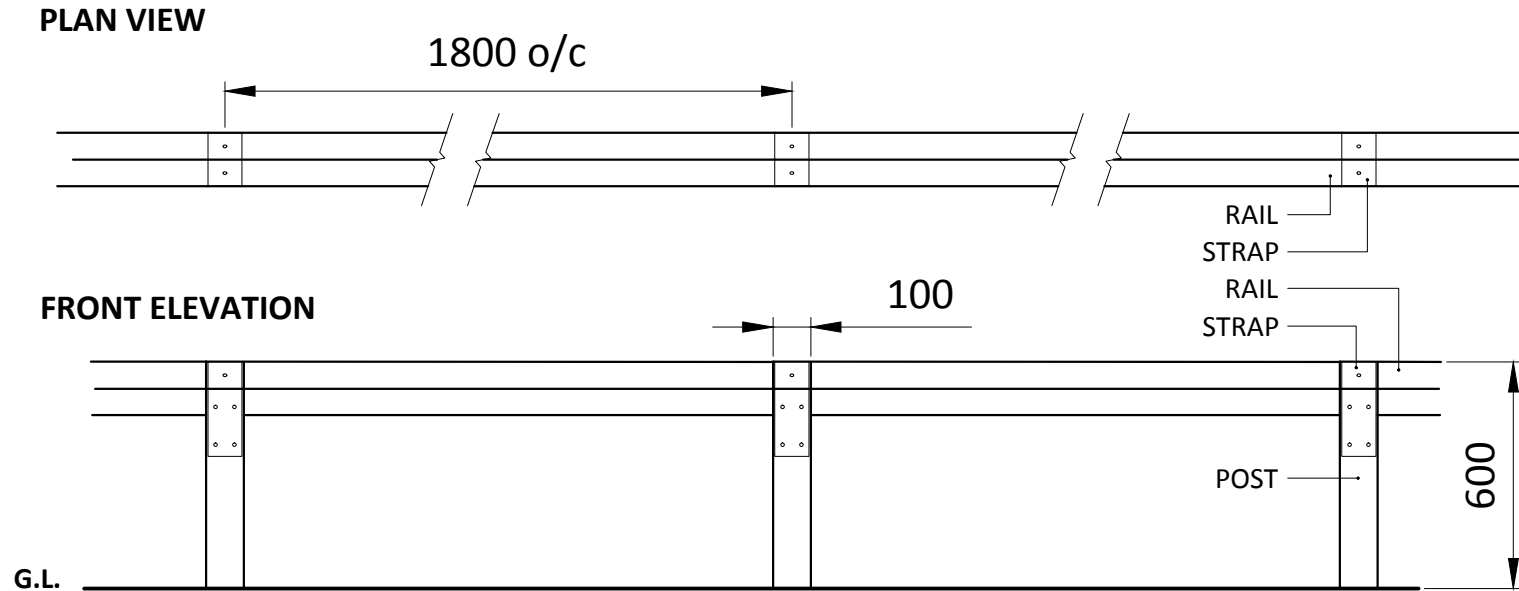
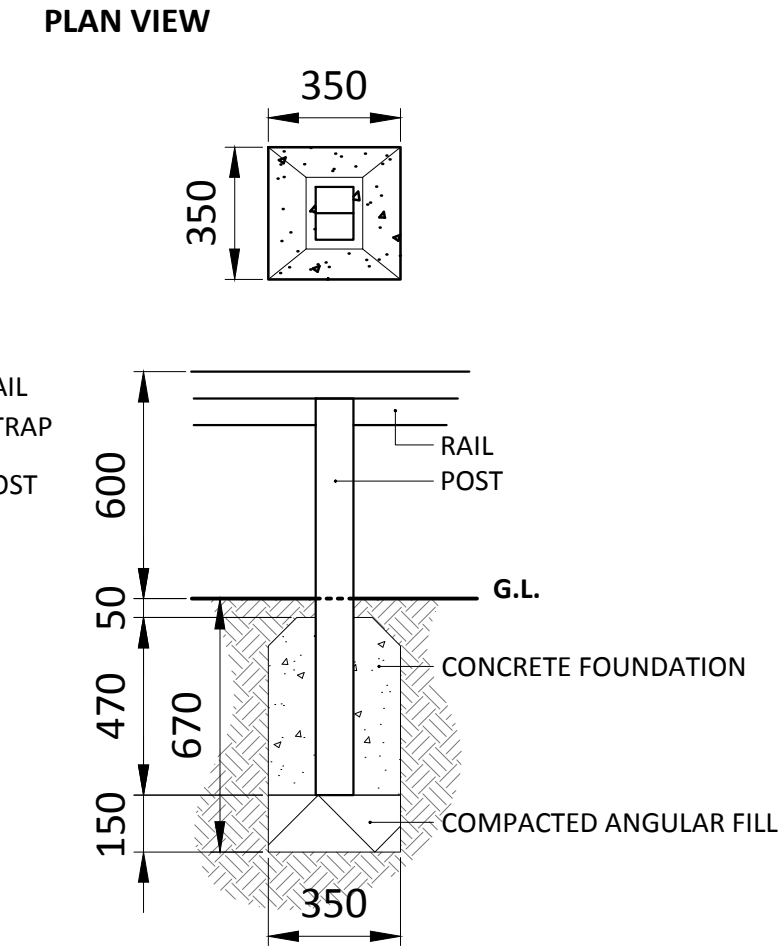


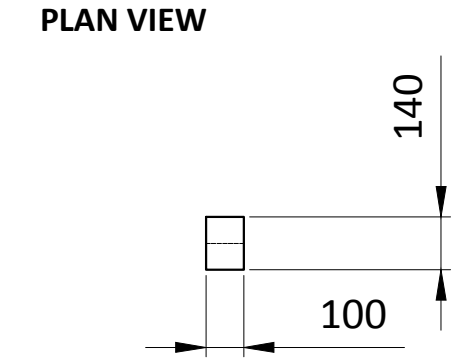
KNEE RAIL PROFILE



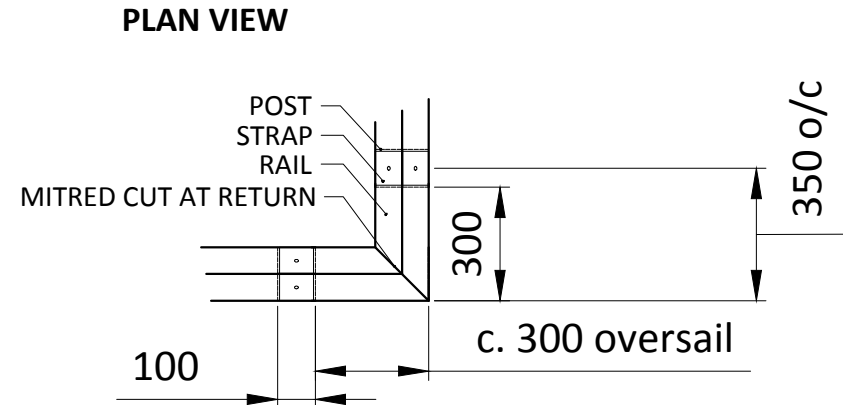
CONCRETE FOUNDATIONS



POST PROFILES

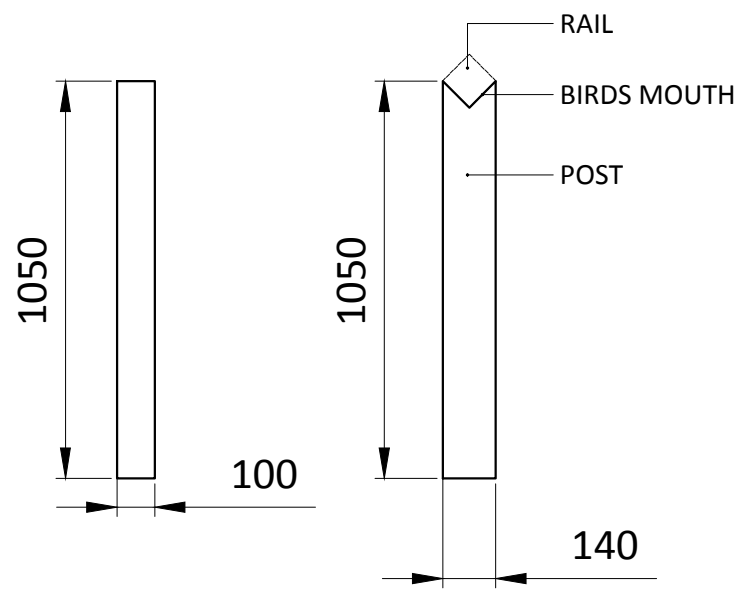


SETTING OUT AT RETURNS



FRONT ELEVATION

SIDE ELEVATION



SETTING OUT LINEAR ITEMS TO CURVED GEOMETRY

PLAN VIEW
The contractor shall, with reference to Table 1 opposite, set out knee rail to curved geometry using the methodology as described below:

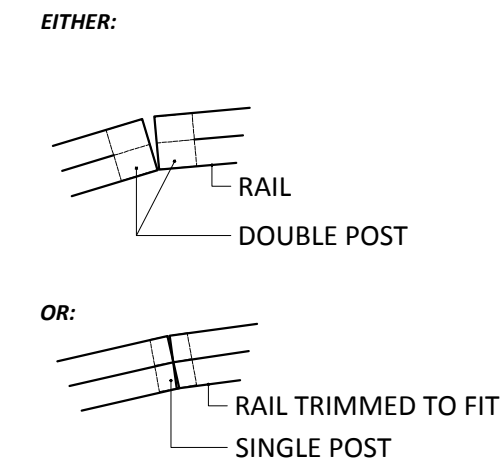


TABLE 1: Setting out Timber Knee Rail to curved geometry

RADIUS	NO. POSTS / RAIL	RAIL LENGTH (mm)	POST CENTRES (mm)
≤ 1.5	2	600	500
≤ 2.5	2	900	800
≤ 5.5	2	1000	900
≤ 7	1	1200	1200
≤ 12	1	1500	1500
> 12	1	1800	1800

- The Contractor may, at the discretion of the Landscape Architect and at no extra cost to the client, choose to vary the no. of posts/rail in Table 1; instead choosing to use a double post to return the curve in preference to trimming to fit onsite.
- However, a consistent look is to be achieved throughout the development so a like for like approach should be used throughout.
- The Contractor will kindly note that the rail lengths chosen to produce a faceted curve are available as a stock length, or, if not, are divisible by the most commonly available lengths of square sawn timber (1.8m, 2.4m, 2.7m, 3m, 3.6m etc.). For example, a 1.8m length would yield 2no. 900mm pieces, a 2.7m length would yield 3no. 900mm pieces, a 2.4m length would yield 2no. 1200mm pieces, etc., etc. Correct choice of overall timber length by the contractor to produce the curve will therefore help to minimise site wastage.
- All cut surfaces must be treated with wood preservative.



TIMBER KNEE RAIL NOTES

TIMBER (GENERALLY): All to be slow grown, pressure treated softwood. All cuts to be treated with wood preservative.

SUPPLIER: Procter Fencing Systems, or Equal & Approved.

KNEE RAIL POST:

UNIT TYPE: Timber sawn post.
UNIT DIMENSIONS: 140x100x1050mm
POST PROFILE: Top to be Bird's mouthed.
POST CENTRES (POC): Top rail length (TrL) availability dependant.
 TrL = 3600; POC = 1800mm.
 TrL = 3000; POC = 1500mm.
 TrL = 2700; POC = 1350mm.
 TrL = 2400; POC = 1200mm.
 TrL = 1800; POC = 1800mm.
N.B. 1800mm cntrs assumed for pricing purposes. Adjust post centres around curved geometry as described in Table 1 opposite to create a faceted perimeter which closely approximates idealised curved radius.

POST HOLE DIMENSIONS: 350x350x750mm deep hole backfilled with 150mm deep compacted angular fill.

FOUNDATION PROFILE: 350x350x500mm Concrete foundation, w/ 100mm topsoil cover.

CONCRETE SPEC: At least one part cement to 10 parts 20 mm all-in ballast to BS EN 12620:2002 mixed with the minimum requisite quantity of clean water, or grade C8/10 or ST2 concrete to BS 8500 parts 1 and 2. The concrete shall be placed in position before commencement of the initial set. Source: BS 1722-7 (2006) Clause 7.2.

FENCE RAIL:

UNIT TYPE: Timber square sawn rail.
UNIT DIMENSIONS: 100x100x3000mm long.
JOINTING PROFILE: Butt.

FIXTURES & FITTINGS:

RAILS GENERALLY: Butt joint to adjacent rail within post bird's mouth.
METHOD OF SECURING: 90x500 galvanised metal strap.
FIXINGS GENERALLY: Drive fully home, ensuring good contact between nail head, strap and timber rail and/or post. Strap to sit flush with timber surface.

RAIL TO POST FIXINGS: 2.65x30mm galvanised clout nail, 10no. per post.

Notes
 Issue: Drawn by David Jarvis Associates Limited | CROWN COPYRIGHT. ALL RIGHTS RESERVED 2015
 LICENCE NUMBER 0100031. This drawing is for Planning purposes only and should be read in conjunction with all other consultants drawings for information on final construction requirements. Any revisions to be approved by the Client and Local Authority.
 Scaling: Do not scale this drawing. Use given dimensions only.
 Services / Utilities: Where possible these are identified on the drawings but, for the avoidance of doubt all service/utility locations should be considered indicative until identified on site. To ensure those services / utilities shown are current refer to the original survey provider or utilities designer and Countryside Properties (Bicester) Ltd. for confirmation and further information regarding easements. It is recommended that hazard warning tape 'danger electric cable' / 'danger services' to be installed over all service routes (to remain on site) to current BS guidelines (BS 7671).
 CDM: Drawings to be read in conjunction with Designers risk assessment.

Drawing Revision

Rev	Date	Description
A	12/11/2015	Client name change.
-	02/10/2015	First Issue.

Drawing Status
PLANNING

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Project
KINGSMERE, PHASE 1 LOCAL CENTRE

Drawing Title
DETAILS - BOUNDARY TREATMENTS TIMBER KNEE RAIL

Scale	Sheet Size	Date
1:20	A3	JULY 2015
Drawing No.	2226/LC/D002	Revision
		A

Z:\Management\2226\01 - CAD\Local Centre\2226 - LC - D002A - Timber Knee Rail.dwg
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