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www.bd.gov.hk

29 April 2011

To: All Authorized Persons Registered Structural Engineers Registered Geotechnical Engineers Registered General Building Contractors Registered Specialist Contractors and Registered Minor Works Contractors

Dear Sir/Madam,

Code of Practice for Structural Use of Concrete 2004

With a view to enhancing the structural performance and safety of buildings and to keep up with the latest development in design and technology on the use of concrete, the Buildings Department (BD) has issued the Code of Practice for Structural Use of Concrete 2004 (the Code) in August 2004. The Code has, inter alia, introduced a set of new requirements on reinforcing bar detailing. Since then, the BD has received enquiries from practitioners of the construction industry from time to time concerning these new requirements.

In order to provide more flexibility for the industry to cope with the new requirements in the Code, the BD has compiled a set of reinforcing bar details to illustrate some of the methods that may be adopted to comply with the requirements. Such details are given in the Annex for reference. Please note that adoption of such details is optional. Practitioners would not be precluded from using any other viable methods to comply with the requirements of the Code.

Some of the requirements of the Code, such as the provision of shear reinforcing bars at beam-column joints and the 135-degree (versus the previous 90-degree) anchorage of links, require greater skill and effort

in fixing the reinforcing bars on site. However, any good design specified in the Code will not be able to achieve the design objectives without proper fixing of the reinforcing bars in the final structure. I therefore solicit your efforts to ensure that the reinforcing bars are properly fixed on site, with due consideration on the enhancement in the reinforcing bar details which may not yet be fully conversant with by the bar benders. Please ensure, in particular, that all links are securely anchored and fixed to the main reinforcing bars.

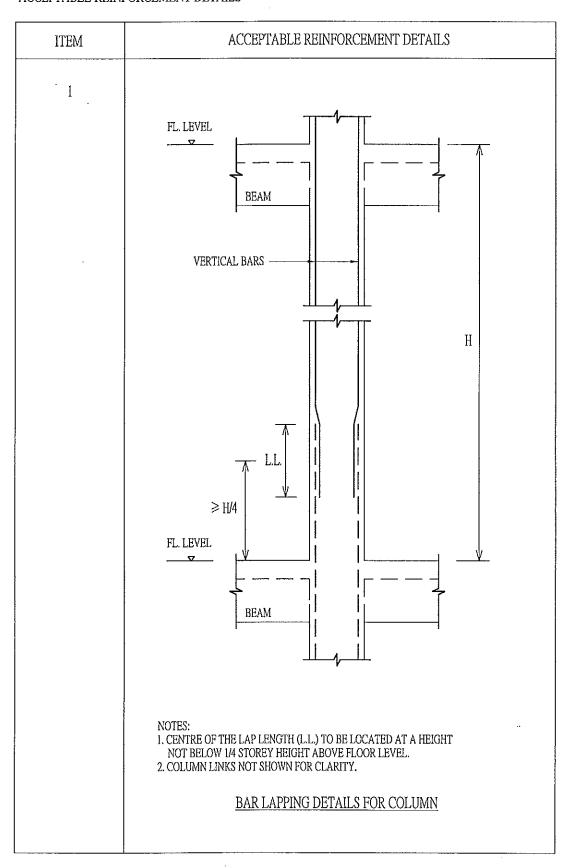
In this connection, BD will increase its audit checking on reinforcing bar fixing on site, and take action if any non-conformities from the approved plans or the Code are found.

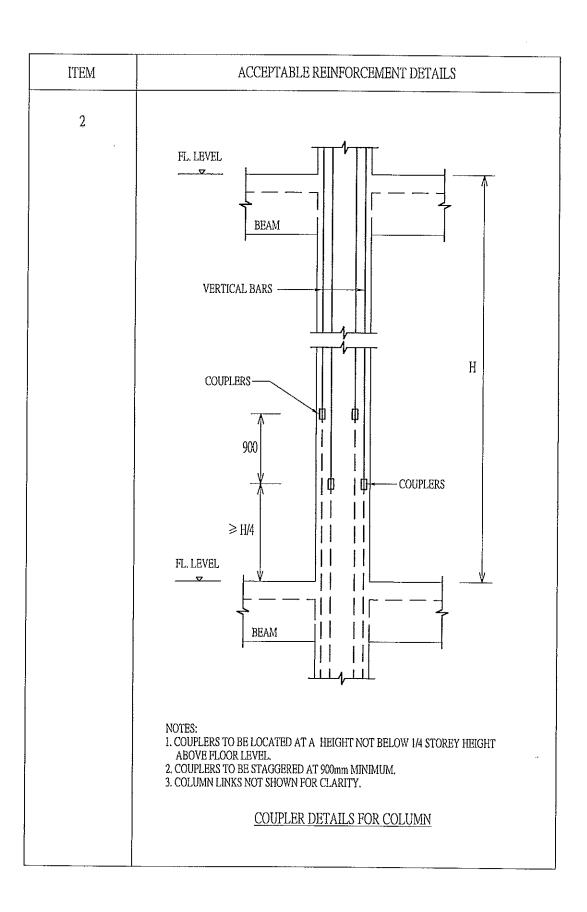
Yours sincerely,

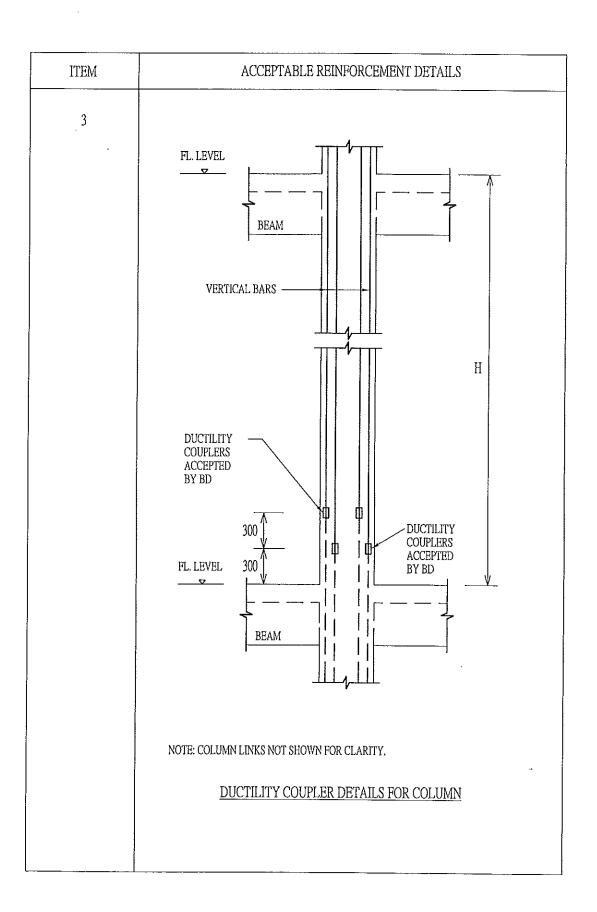
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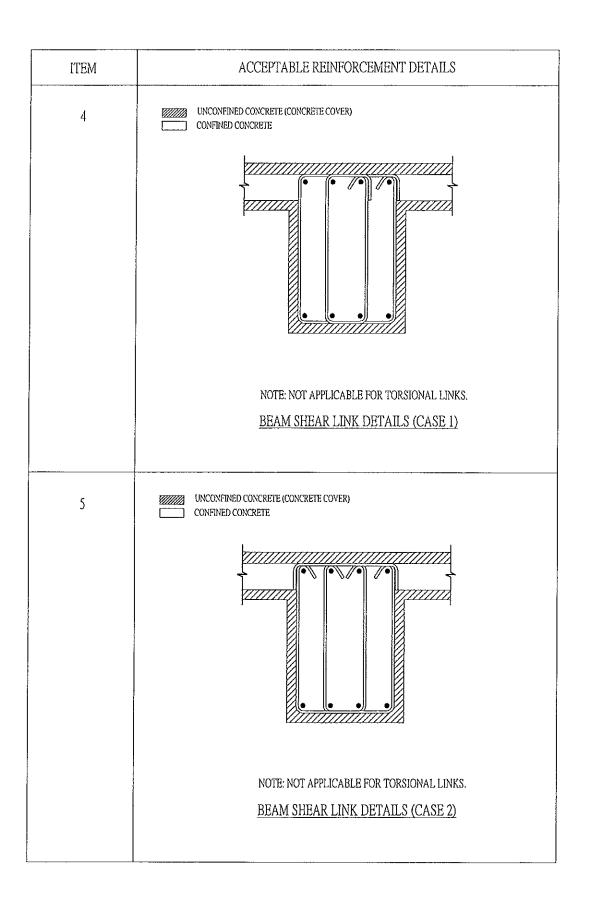
Assistant Director/New Buildings 2 for Building Authority

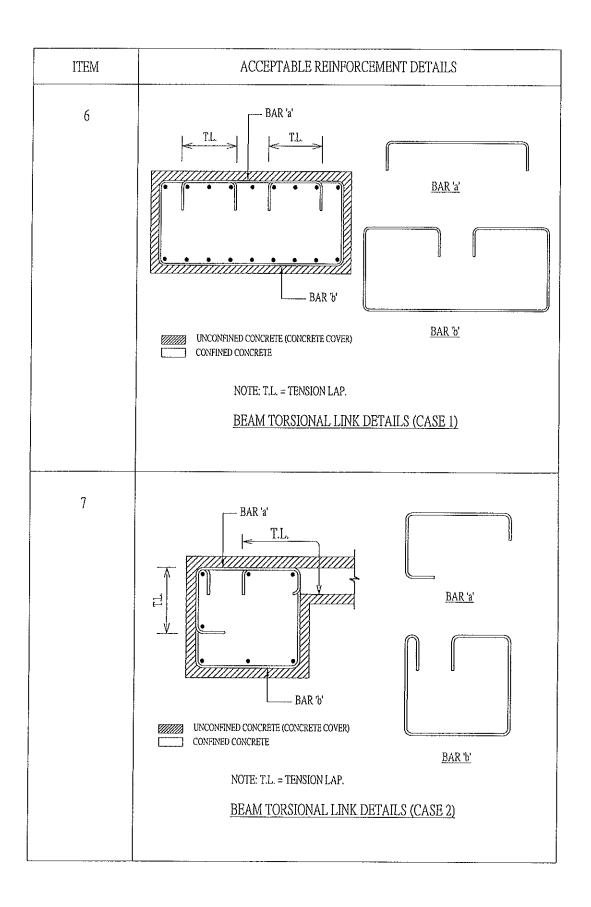
ACCEPTABLE REINFORCEMENT DETAILS

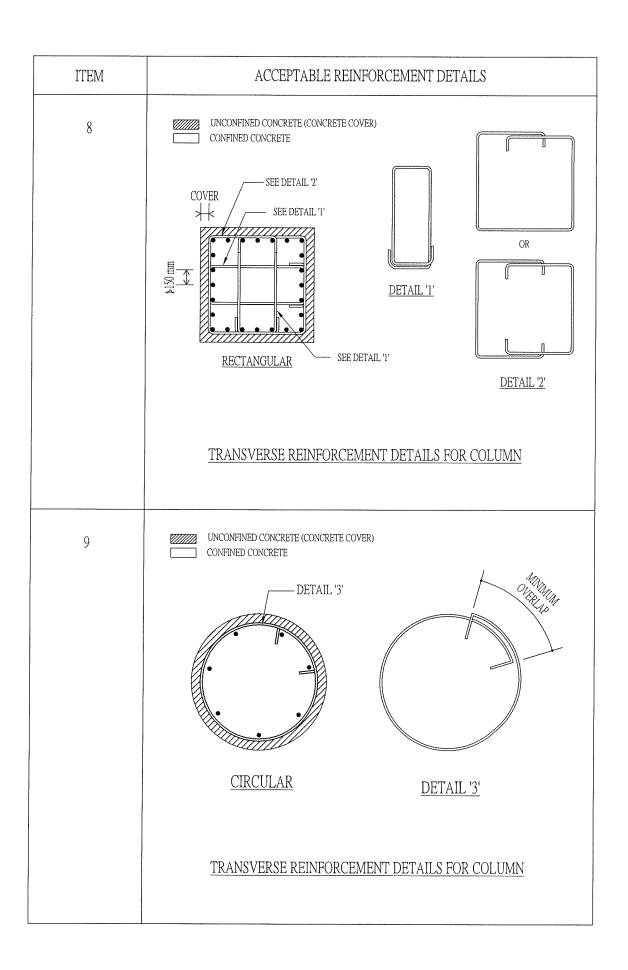


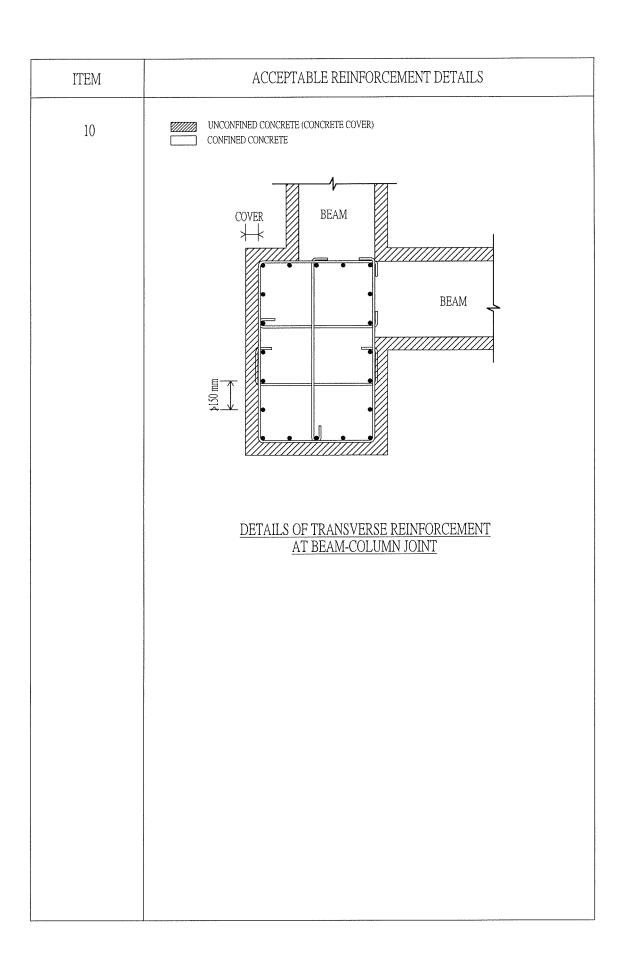


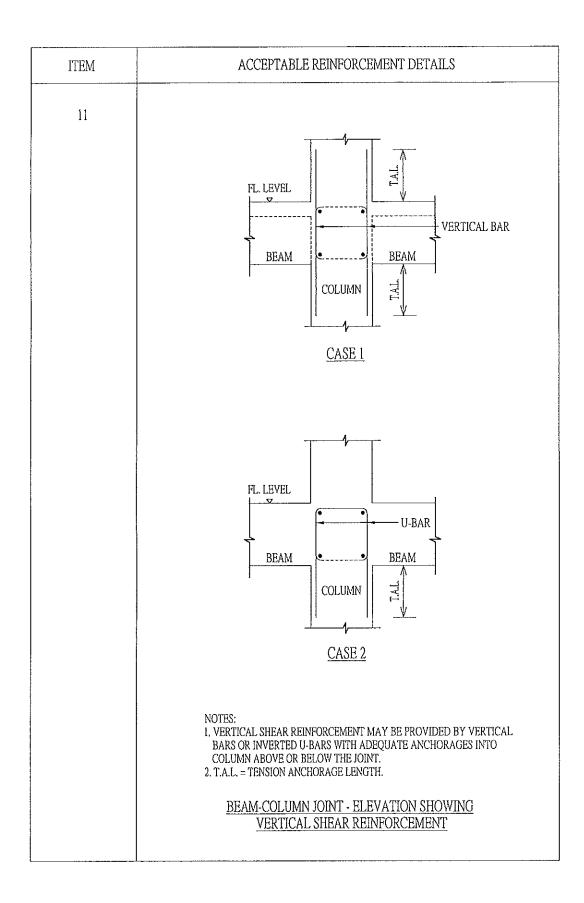


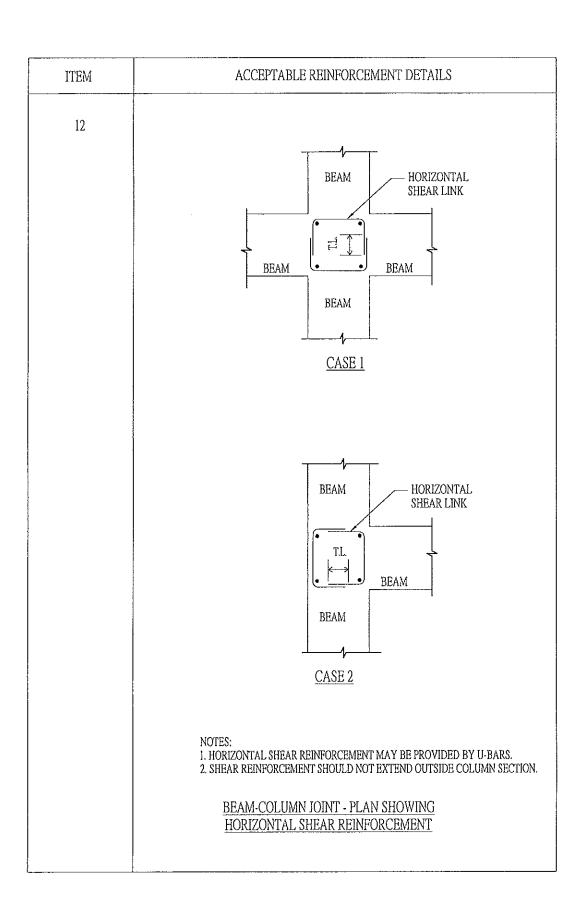












ITEM	ACCEPTABLE REINFORCEMENT DETAILS
13	JOINT SHEAR REINFORCEMENT
	The following assumption may be used in calculating the joint shear reinforcement:
	$C = T = 1.0 A_s f_y$
	where $C = \text{compression}$ force due to bending moment in beam $T = \text{tension}$ force due to bending moment in beam $A_s = \text{area}$ of beam tension reinforcement provided $f_y = \text{characteristic}$ yield strength of reinforcement
14	VERTICAL REINFORCEMENT IN COLUMN
	Vertical reinforcement in column may lap at any location if:
	$\Sigma M_c \ge 1.2 \Sigma M_b$
	where ΣM_c = sum of moment capacities under the appropriate axial load of the column sections above and below the joint ΣM_b = sum of either the clockwise or anti-clockwise moment capacities of the beams on both sides of the joint, whichever is the greater
15	LINKS WITHIN CRITICAL REGIONS IN COLUMN
	A link spacing of 100 mm may be used.
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