

**MINISTRY OF HEALTH & FAMILY WELFARE,  
GOVT. OF INDIA, NEW DELHI**

**TENDER**

**FOR**

**Construction of Boundary Wall for Residential  
Complex (Balance Works) for AIIMS like  
Institution at Bhubaneswar under PMSSY**

**VOLUME – IV**

**Technical Specifications**

**&**

**Tender Drawings**

**November' 2012**



**HSCC (INDIA) LTD.  
(CONSULTANTS & ENGINEERS FOR MEGA HOSPITALS & LABORATORIES)  
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Fax : 0120-2542447

**Tender No. HSCC/PMSSY/BHUB/BW/2012/04**

## TECHNICAL SPECIFICATIONS

### CIVIL WORKS

#### 1.0 GENERAL :-

1.01 The specifications and mode of measurements for Civil and Plumbing works shall be in accordance with C.P.W.D. specifications 1996 Volumes I to VI.

Unless otherwise specified in the nomenclature of individual item or in the specifications, the entire work shall be carried out as per the C.P.W.D. specifications with upto date correction slips upto the date of opening of tender.

1.02 For the item not covered under CPWD Specifications mentioned above, the work shall be executed as per latest relevant standards/codes published by B.I.S. (formerly ISI) inclusive of all amendments issued thereto or revision thereof, if any, upto the date of opening of tenders.

1.03 In case of B.I.S. (formerly I.S.I) codes/specifications are not available, the decision of the Engineer based on acceptable sound engineering practice and local usage shall be final and binding on the contractor.

1.04 However, in the event of any discrepancy in the description of any item as given in the schedule of quantities or specifications appended with the tender and the specifications relating to the relevant item as per CPWD specifications mentioned above, or in drawings the former shall prevail.

1.05 The rates for different items of work shall be for all heights, lifts, leads and depths of the building except where otherwise specified in the item of work or in special conditions appended with the tender.

1.06 The work shall be carried out in accordance with the architectural, structural, plumbing and electrical drawings etc. The drawings shall have to be properly co-related before executing the work. In case of any difference noticed between the drawings, final decision, in writing of the Engineer shall be obtained by the contractor. For items, where so required, samples shall be prepared before starting the particular items of work for prior approval of the Engineer and nothing extra shall be payable on this account.

1.07 All materials to be used on works shall bear I.S. certification mark unless specifically permitted otherwise in writing. In case I.S. marked materials are not available(not produced), the materials used shall conform to I.S. code or CPWD specifications as applicable in this contract.

In such cases the Engineer shall satisfy himself about the quality of such materials and give his approval in writing. Only articles classified as "First Quality" by the manufacturers shall be used unless otherwise specified. All materials shall be tested as per provisions of the Mandatory Tests in CPWD specifications and the relevant IS specifications. The Engineer may relax the condition regarding testing if the quantity of materials required for the work is small. Proper proof of procurement of materials from authentic manufacturers shall be provided by the contractor to the satisfaction of Engineer. Grade of cement used shall be 43 /53 unless otherwise specified explicitly. The contractor (if item of Design Mix specified in BOQ) shall get the Design Mix for RCC done by the labs approved by HSCC only. Reinforcement Steel used shall be of FE-415 unless otherwise specified. All materials shall be bought from only approved sources.

- 1.08 In respect of the work of the sub-agencies deployed for doing work of electrification, air-conditioning, external services, other building work, horticulture work, etc. for this project and any other agencies simultaneously executing other works, the contractor shall afford necessary coordination and facilities for the same. The contractor shall leave such necessary holes, openings, etc. for laying / burrying in the work pipes, cables, conduits, clamps, boxes and hooks for fan clamps, etc. as may be required for the electric, sanitary air-conditioning, fire fighting, PA system, telephone system, C.C.T.V. system, etc. and nothing extra over the agreement rates shall be paid for the same.
- 1.09 Unless otherwise specified in the bill of quantities, the rates for all items of work shall be considered as inclusive of pumping out or bailing out water if required for which no extra payment will be made. This will include water encountered from any source such as rains, floods, subsoil water table being high or due to any other cause whatsoever.
- 1.10 Any cement slurry added over base surface (or) for continuation of concreting for bond is added its cost is deemed to have in built in the item unless otherwise/explicitly stated and nothing extra shall be payable or extra cement considered with consumption on this account.
- 1.11 The rate for all items in which the use of cement is involved is inclusive of charges for curing.
- 1.12 The contractor shall clear the site thoroughly of all scaffolding materials and rubbish etc. left out of his work and dress the site around the building to the satisfaction of the Engineer before the work is considered as complete.
- 1.13 Rates for plastering work (excluding washed grit finish on external wall surfaces) shall include for making grooves, bands etc. wherever required and nothing extra shall be paid for the same.
- 1.14 The rates quoted for all brick/concrete work shall be deemed to include making openings and making good these with the same specifications as shown in drawings and/or as directed. No extra payment shall be made to the contractor on this account.
- 1.15 Rates for all concrete/plaster work shall include for making drip course moulding, grooves etc. wherever required and nothing extra shall be paid for the same.
- 1.16 The drawing(s) attached with the tender documents are for the purpose of tender only, giving the tenderer a general idea of the nature and the extent of works to be executed. The rates quoted by the tenderer shall be deemed to be for the execution of works taking into account the "Design

Aspect" of the items and in accordance with the "Construction Drawings" to be supplied to the Contractor during execution of the works.

- 1.17 The quoted rate shall be for finished items and shall be complete in all respects including the cost of all materials, labour, tools & plants, machinery etc., all taxes, duties, levies, octroi, royalty charges, statutory levies etc. applicable from time to time and any other item required but not mentioned here involved in the operations described above. The client/HSCC/Employer shall not be supplying any material, labour, plant etc. unless explicitly mentioned so.

BC JUNCTION WALL

TYP. BOUNDARY WALL DETAILS

HSCC/D&E/ST-01

Drawing No. REV. 0

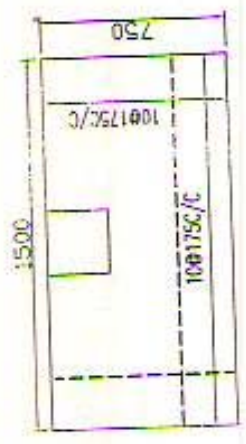
HSCC/400 JOB No. 1:50 SCALE FEB.-04 DATE

APPROVED REVIEWED PREPARED

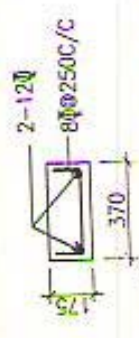
HOSPITAL SERVICES CONSULTANCY CORPORATION (INDIA) LTD. GOVERNMENT OF INDIA (ENTERPRISE)

HSCC

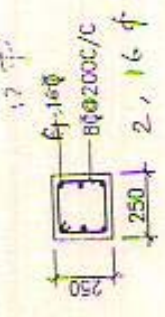
NEW DELHI INDIA



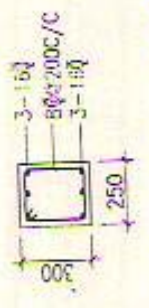
TYP. DETAIL OF BOUNDARY FOOTING



R/F DETAIL OF COPING (370x175)

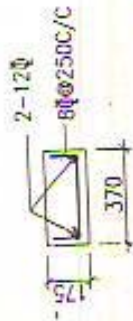


TYP. DETAIL OF COL. C-2 (250x250)



DETAIL OF PLINTH BEAM, PB-2 (250x300)

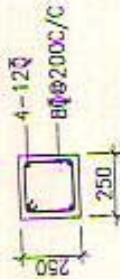




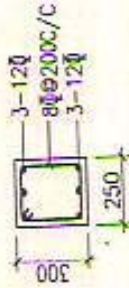
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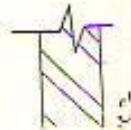
TYP. DETAIL OF BOUNDARY FOOTING



TYP. DETAIL OF COL. C-1  
(250x250)



DETAIL OF PLINTH BEAM, PB-1  
(250x300)



This drawing with all its contents is the sole intellectual property of the Hospital Services Consultancy Corporation (India) Ltd. Copying of this drawing or part thereof or its use in any form whatsoever without the written permission of HSCC is prohibited.

NOTES

1. ALL DIMENSIONS ARE IN mm.
2. READ IN CONJUNCTION WITH RELEVANT ARCH. DWG.

REV	DATE	DESCRIPTION	CHKD

REVISION

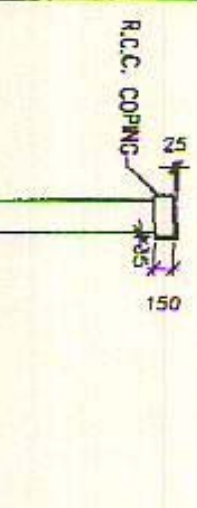
PROJECT

CONSTRUCTION OF BOUNDARY WALL AT PROPOSED AIMS SITE AT BHUBANESHWAR

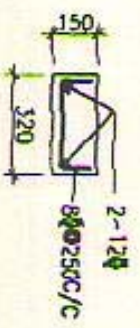
BOUNDARY WALL

Fax No: (0771) - 5053152, M/S WRCL.

# FOR BACK BOUNDARY WALL



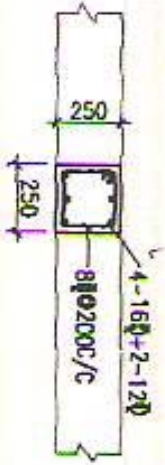
SECTION A-A



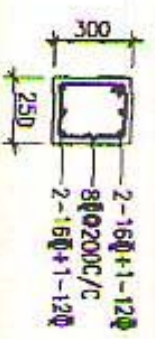
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TYP. DETAIL OF BOUNDRY FOOTING

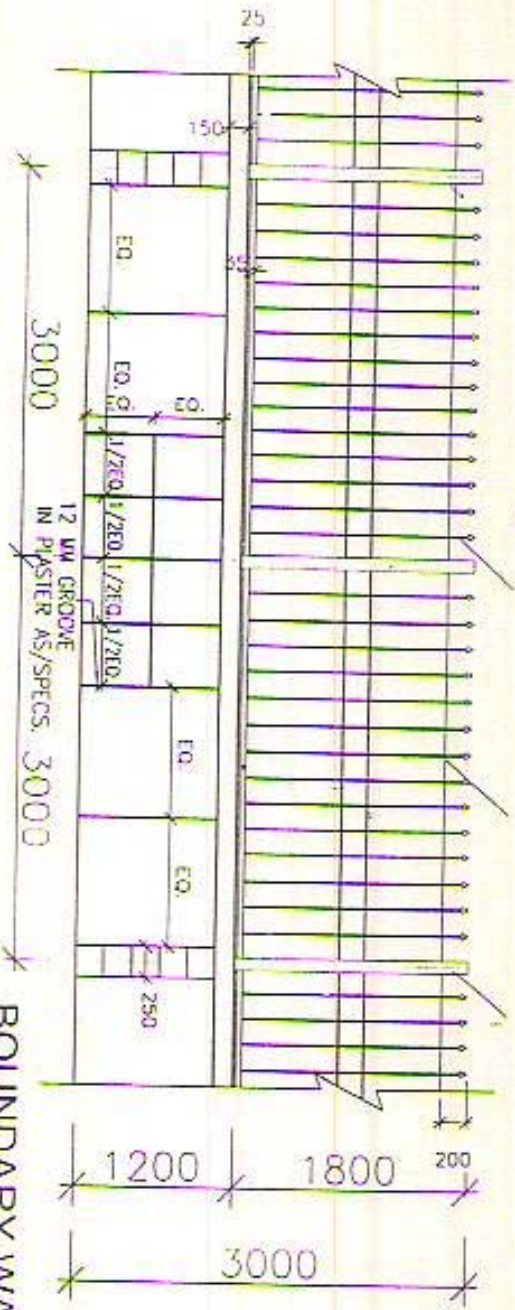
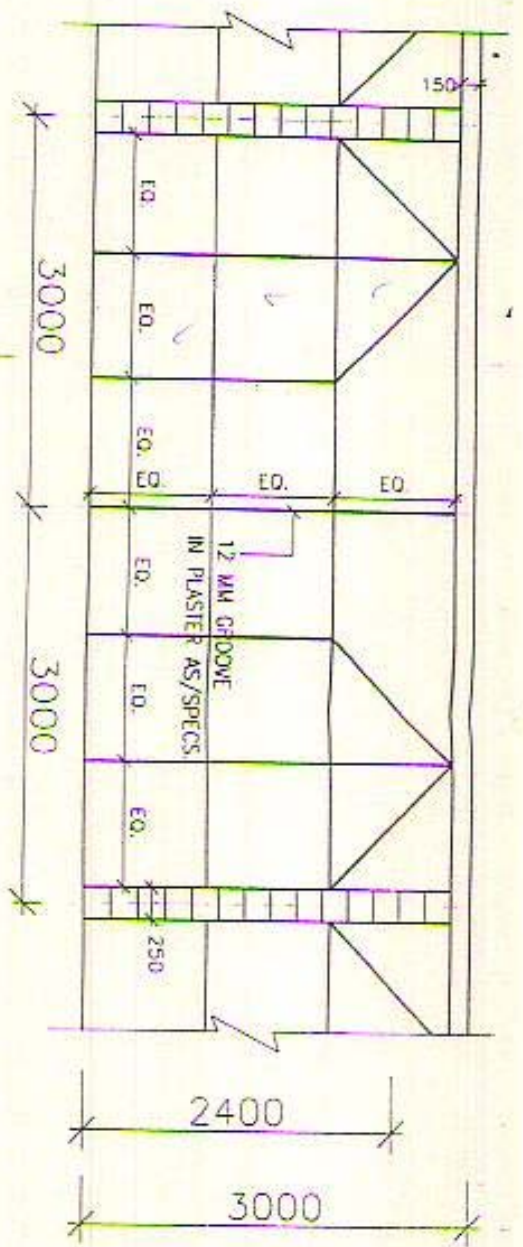


TYP. DETAIL OF COL. C-2  
(250x250)



DETAIL OF PLINTH BFAM. PB-2  
(250x300)

*[Handwritten signature]*  
1/5/2004



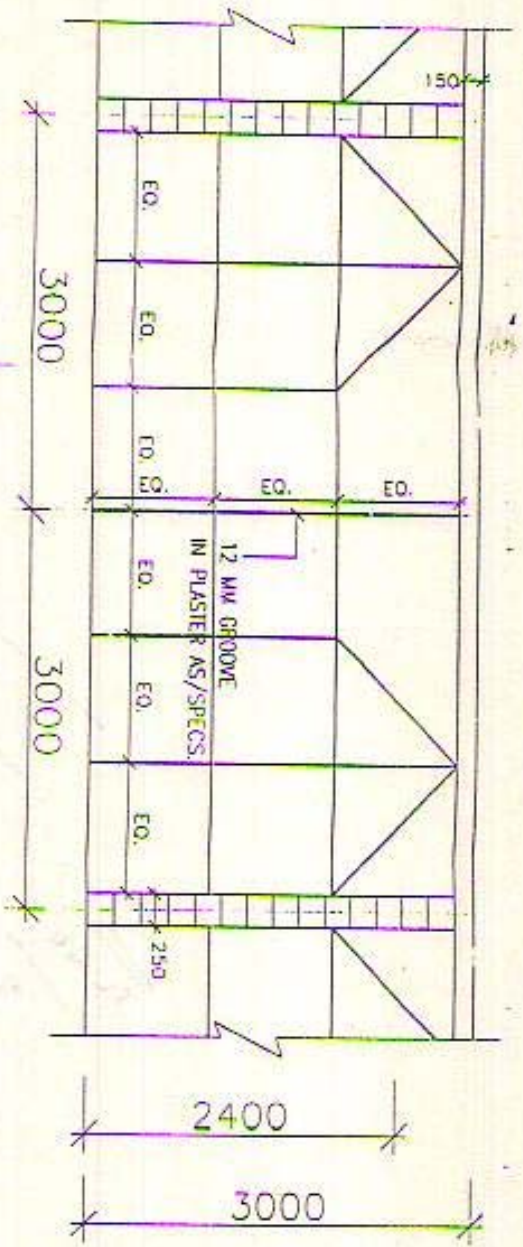
**BOUNDARY WALL DETAIL  
GROOVE PATTERN**

Author: Shri. G. K. R.

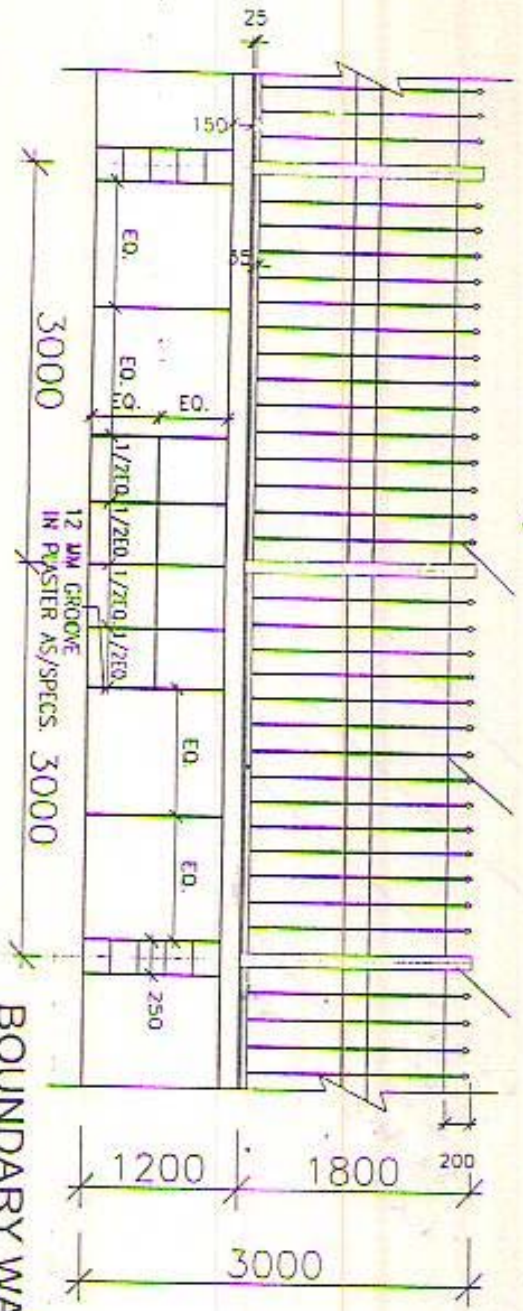
PREP BY: *[Signature]* REV. BY: *[Signature]* APP. BY: *[Signature]*

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A Division of HSCC (INDIA) LIMITED  
**HSCC**  
NEW DELHI





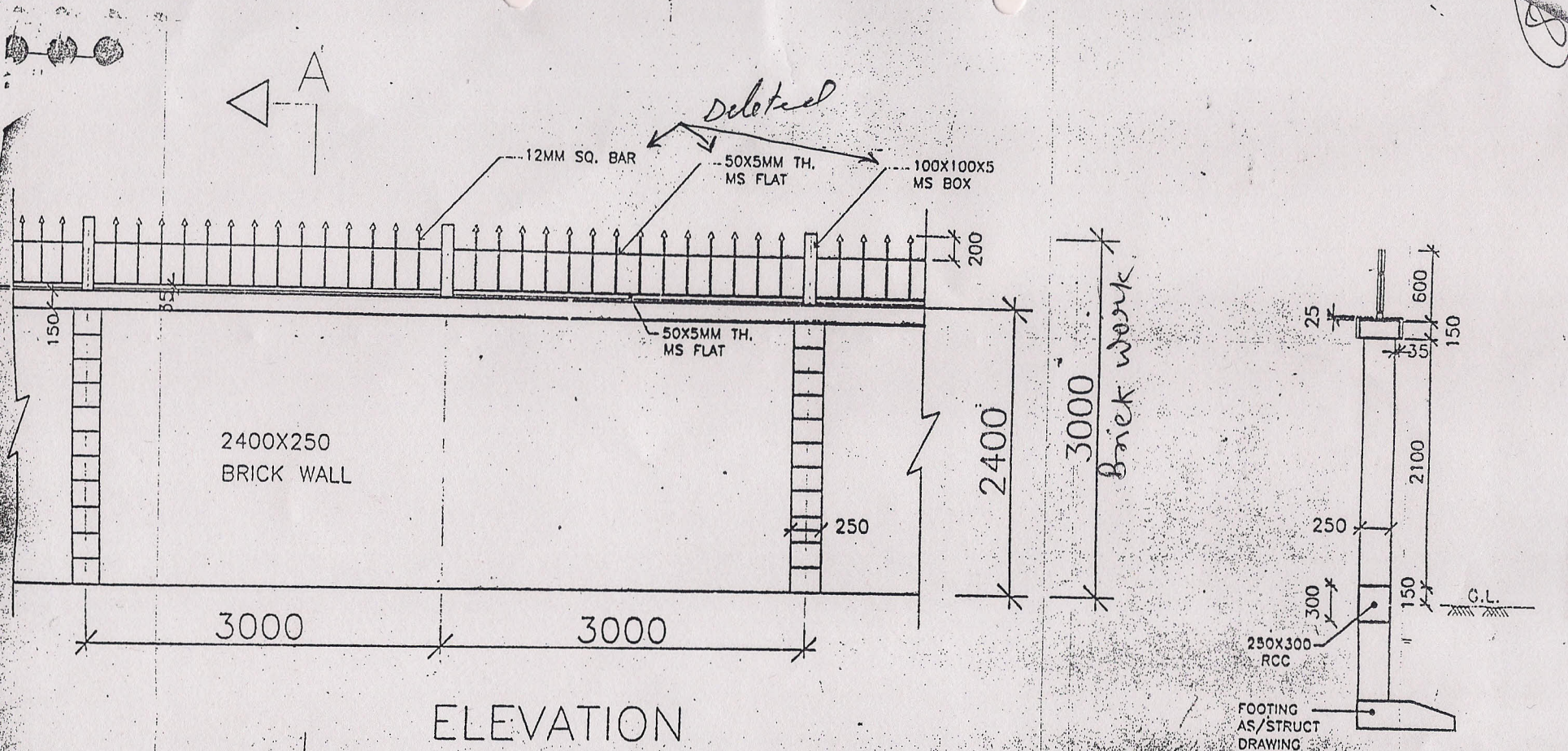
Amit Shrivastava



BOUNDARY WALL DETAIL  
GROOVE PATTERN

PREP. BY: [Signature]  
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APP. BY: [Signature]

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**HSCC**  
NEW DELHI

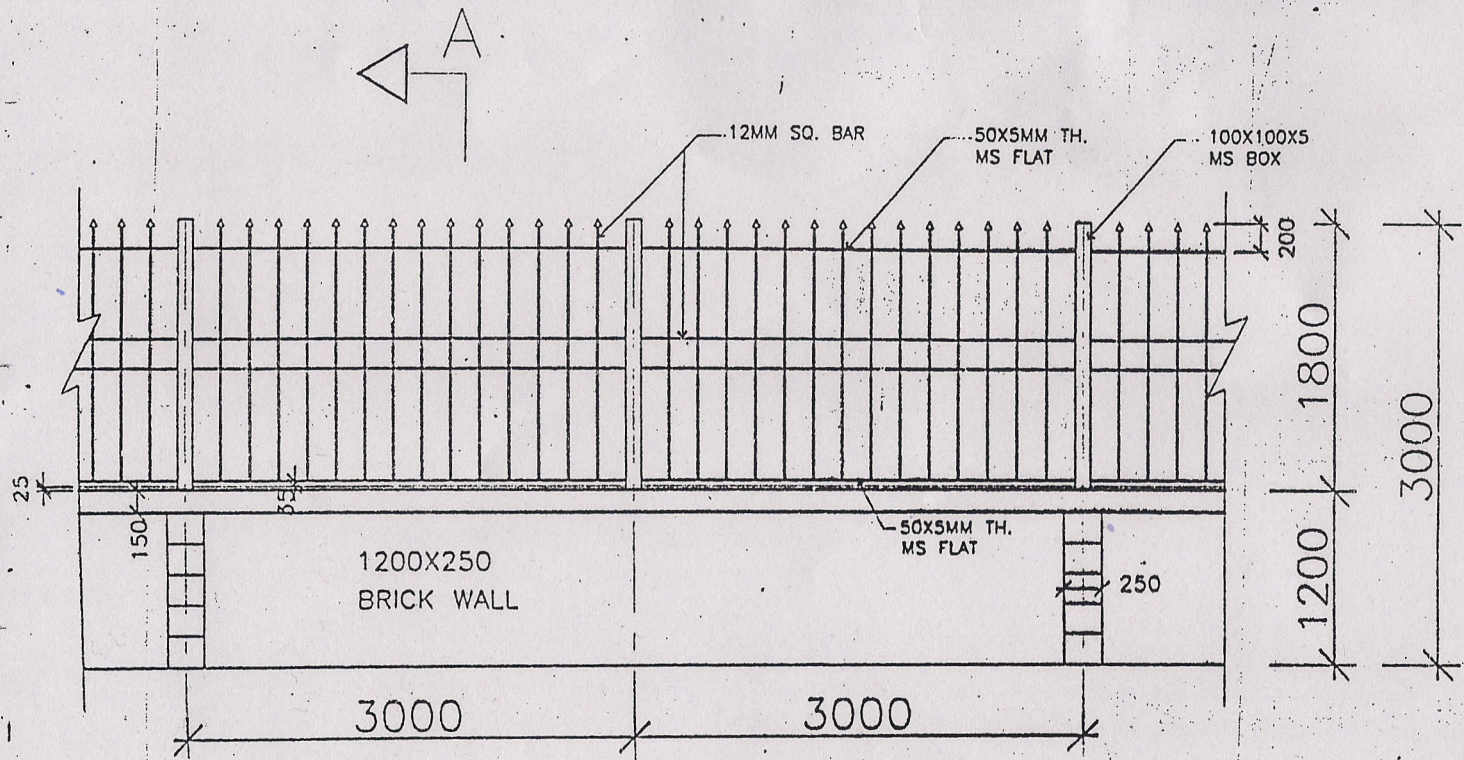


ELEVATION

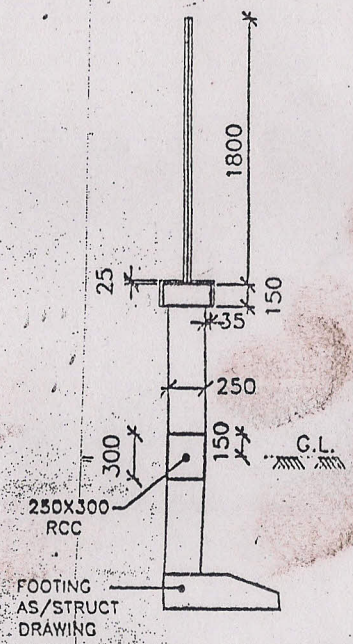
SECTION A-A

BACK  
BOUNDARY WALL DETAIL

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ELEVATION



SECTION A-A

FRONT  
BOUNDARY WALL DETAIL

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Annexure (in B)

**END OF VOLUME - IV**