



# **HIGH COMMISSION OF INDIA**

## **BIDDING DOCUMENT**

FOR

**CONSTRUCTION OF 90'x25' TWO STORIED CLASS ROOM BUILDING,  
CONSTRUCTION OF TOILET BLOCK, SINGLE TOILETS AND CHAIN LINK  
FENCE, REPAIR WORKS OF 60'x20', 80'x20' CLASS ROOM BUILDING AND  
TEACHER'S QUARTERS AT WEST WARD HO TAMIL VIDYALAYAM,  
NUWARA ELIYA**

**CONTRACT NO: COL/DC/228/03/2018 - 5**

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**Invitation for Bids**  
**High Commission of India**  
**Grant Number: COL/DC/228/03/2018 - 5**

**Construction of 90'x25' Two Storied Class Room Building, Construction of Toilet Block, Single Toilets and Chain Link Fence, Repair works of 60'x20', 80'x20' Class Room building and Teacher's Quarters at West Ward Ho Tamil Vidyalayam, Nuwaraeliya**

1. The Counsellor (Development Cooperation), on behalf of the High Commission of India invites sealed bids from eligible and qualified bidders for **Construction of 90'x25' Two Storied Class Room Building, Construction of Toilet Block, Single Toilets and Chain Link Fence, Repair works of 60'x20', 80'x20' Class Room building and Teacher's Quarters at West Ward Ho Tamil Vidyalayam, Nuwaraeliya** at an estimated cost of **Rs.30.7 Million**.
2. Scope of works include the Construction works but not limited to Earthwork, Masonry, Concrete, Doors and Windows, Finishes, Roof work, Electrical and Plumbing, etc. and Total Construction period is **365** calendar days.
3. **Counsellor (Development of Cooperation) on behalf of the High Commission of India, Colombo** now invites sealed bids from eligible and qualified bidders for construction of the above under National Competitive Bidding procedure. **Since the Total Cost Estimate of this procurement is below Rs. 50 Million, regional preference and CIDA grade preference shall apply as stipulated in Public Finance Circular No. 04/2016(ii).**
4. The technical bid (Original & Duplicate) and the financial bid (Original & Duplicate) documents should be sealed by the bidder in separate covers duly super scribed and these four sealed covers are to be put in a bigger cover which should also be sealed and duly super scribed.
5. To be eligible for contract award, the successful bidder shall not have been blacklisted and shall meet the requirements of CIDA registration as above or its equivalent.
6. Qualification requirements are indicated in the Bidding document. Additional details are provided in the Bidding Data & Contract Data.
7. The Bidding Documents can be seen on Mission's website [www.hcicolombo.org](http://www.hcicolombo.org).
8. A complete set of Bidding Documents in English language may be purchased by interested bidders from the Project Officer (Development Cooperation), High Commission of India, 36-38, Galle Road, Colombo-03 from **26 October 2020 to 10 November 2020** between 09:30 hrs to 16:00 hrs, upon payment of a non refundable fee of Rs. 5,000.00 in cash. The bidding documents may also be downloaded free of cost from Mission's website [www.hcicolombo.gov.in](http://www.hcicolombo.gov.in).
9. Pre Bid meeting will be held at the Conference Hall, High Commission of India, 36-38, Galle Road, Colombo-03 commencing at **11:00 Hrs on 06 November 2020**
10. Site Visit will be notified on the day of Pre bid meeting on **06 November 2020**
11. Bids shall be submitted by hand to the **Project Officer (Development Cooperation), High Commission of India, 36-38, Galle Road, Colombo-03** on or before **15:00 hrs on 16 November 2020** Late bids will be rejected. Technical bids will be opened at **15:30 hrs on the 16 November 2020** at the High Commission of India in the presence of the bidders' representatives who choose to attend.

12. Bidders or their authorized representatives are requested to be present at the opening of bids.
13. Each bidder shall provide the name and contact details of an individual to act as a point of contact during the tender process. That person may be asked to clarify the bid to provide additional information during the evaluation process.
14. The High Commission of India, Colombo shall provide a copy of all questions and answers provided during the tendering process to all bidders.
15. Only communications that are in writing from the High Commission of India, Colombo may be considered as properly authorized expressions on the Mission's behalf.
16. In submitting a bid to the Mission, the bidder will be deemed to have understood this bidding document, obtained all requisite information and verified the correctness of any information to be relied upon.
17. In submitting a bid to the Mission, the bidder will be deemed to be fully informed and to have accepted the terms and conditions outlined in this bid document.
18. The bidding company and its sister company or subsidiary should not bid separately in the same bid. A certificate to this effect should be given by the bidding company at the time of bidding.
19. The decision of High Commission of India in deciding the eligibility of the company to take part in the tender process is final.
20. The Mission reserves the right to accept or reject any or all Bid(s) and to annul the bidding process, at any time, thereby rejecting all bids, prior to any Contract being awarded.
21. The High Commission of India, Colombo reserves the right to clarify without restriction with bidders on any matter contained in the bids, without disclosing this to any other person.
22. The bidders should note that in the event of Contract having been awarded, the contractor will not assign in whole or in part its rights or obligations without the prior approval of the Mission.
23. The contract will also include provisions for the bidding company to adhere to all local laws applicable. The contract will also include provisions of *Force Majeure*, termination of contract, consequences of termination and re-tendering after termination of contract.
24. Any dispute or difference regarding the interpretation of the provisions of the Agreement/Contract shall be resolved amicably between the parties. If the dispute is not resolved through mutual consultations within a period of six months, either party may refer the dispute to arbitration in accordance with the Arbitration & Conciliation Act 1996 of India as amended from time to time. The number of arbitrators shall be one and that the place of arbitration shall be New Delhi, India. In such a situation the applicable law will be the law of India. The language of the Tribunal shall be English. The cost shall be borne by the parties equally unless otherwise determined by the Arbitral Tribunal.
25. The Bids shall be valid for 120 days from the date of closing of bids or any extended period. All bids shall be accompanied by a Bid Security as Clause 16.2 of the Bidding Data.
26. Preference will be given to those who are not currently handling more than two projects awarded by the High Commission.

**Counsellor (Development Cooperation)**  
**High Commission of India,**  
**36-38, Galle Road,**  
**Colombo -03**

# **Section 1**

## **Instructions to Bidders (ITB)**

## **Instructions to Bidders**

Instructions to Bidders that will be applicable for this bid is given in Section I of the Standard Bidding Document for Procurement of Works, CIDA publication NO: ICTAD/SBD/01, Second Edition, January 2007, Published by the Construction Industry Development Authority (CIDA)

Instructions to Bidders shall be read in conjunction with Bidding Data

**All conditions and the content of CIDA Publication No. ICTAD/SBD/01***(Second Edition– January 2007)* **is valid for this bid**, unless otherwise amended, substituted or added by “Section V – Bidding Data & Contract Data” of this document.

*(Refer CIDA Publication No. ICTAD/SBD/01 – Second Edition– January 2007, Pages from 07 to 19)*

## **Section II**

### **Standard Forms [Contract]**

### Notes on form of Letter of Acceptance

The letter of Acceptance will be the basis for formation of the contract as described in Clause 33 of the Instructions to Bidders. This form of Letter of Acceptance should be filled in and sent to the successful bidder only after evaluation of Bids and after obtaining approval from the relevant Authority.

### Letter of Acceptance

Date ..... 20...

To: .....

This is to inform you that your bid (Ref No ..... ) dated ..... 20.. for the ..... for the Contract price of SLR ..... [Sri Lankan Rupees .....], as corrected, in accordance with Instructions to Bidders, is hereby accepted.

2. You are hereby instructed to proceed with the execution of the said Works in accordance with the Contract Document.

3. You are hereby instructed to submit a performance security of 5% of initial contract price within 14 days on receipt of this Letter of Acceptance. The performance security shall be in the form of Bank Guarantee from a reputed Commercial Bank operating in Sri Lanka or Construction Guarantee Fund. The Performance Security shall be in favour of the High Commission of India, Colombo and valid till .....20.....

4. The site possession date shall be within 14 days from the date of the Letter of Acceptance. The Contract Period shall be sixteen (16) months from the date of signing of contract.

5. You may contact Secretary, Ministry of Education to make arrangements for taking over the site in order to commence the Works.

6. This Letter of Acceptance and your Bid will form a binding contract until the formal contract is signed.

Authorized Signature:

Name and title of Signatory : .....

Counsellor (Development Cooperation)

Name of Agency : High Commission of India, Colombo.



## STANDARD FORM: AGREEMENT

This AGREEMENT, made the -----[day] day of -----[month] 20----- [year] between -  
-----[name and address of Employer] (hereinafter called “the Employer”) of  
the one part, and ----- [name and address of Contractor]  
(hereinafter called “the Contractor”) of the other part.

WHEREAS the Employer desires that the Contractor execute -----[name  
and identification number of Contract] (hereinafter called “the Works”) and the Employer has  
accepted the Bid by the Contractor for the execution and completion of such Works and the  
remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively  
assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to  
form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter  
mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works  
and remedy any defects therein in conformity in all respects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and  
completion of the Works and the remedying of defects wherein the Contract Price or such other sum  
as may become payable under the provisions of the Contract at the times and in the manner  
prescribed by the Contract.

**In Witness** whereof the parties thereto have caused this Agreement to be executed the day and year  
aforementioned, in accordance with laws of Sri Lanka.

.....  
**Authorized signature of Contractor**

.....  
**Authorized signature of Employer**

In the presence of:

Witnesses :

1. Name and NIC No. ....  
Signature .....  
Address .....
2. Name and NIC No. ....  
Signature .....  
Address .....

**FORM OF PERFORMANCE SECURITY  
(Unconditional)**

----- *[Issuing  
Agency's Name, and Address of Issuing Branch or Office]*

**Beneficiary:** The Counsellor, High Commission of India, Colombo 03

**Date:** -----

**PERFORMANCE GUARANTEE No.:** -----

We have been informed that ----- *[name of Contractor]*  
(hereinafter called "the Contractor") has entered into Contract No. ----- *[reference  
number of the contract]* dated ----- with you, for the ----- *[insert  
"construction"]* of ----- *[name of contract, contract  
number and brief description of Works]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Contractor, we ----- *[name of Agency]*  
hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of -----  
----- *[amount in figures]* (-----) *[amount in words]*,  
upon receipt by us of your first demand in writing accompanied by a written statement stating that  
the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or  
to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the -----day of -----, 20---- *[insert date, 60 days  
beyond the Intended Completion Date]* and any demand for payment under it must be received by us  
at this office on or before that date.

\_\_\_\_\_  
*[signature(s)]*

## **FORM OF ADVANCE PAYMENT SECURITY**

----- [ Name and address of  
Agency, and Address of Issuing Branch or Office]

**Beneficiary:** The Counsellor, High Commission of India, Colombo 03

**Date:** -----

**ADVANCE PAYMENT GUARANTEE No.:** -----

We have been informed that ----- [name of Contractor]  
(hereinafter called "the Contractor") has entered into Contract No. ----- [reference  
number of the contract] dated ----- with you, for the -----  
----- [name of contract and brief description] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in  
the sum ----- [amount in figures] ( -----) [amount in  
words] is to be made against an advance payment guarantee.

At the request of the Contractor, we ----- [name of issuing  
agency] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount  
of ----- [amount in figures] (-----) [amount in  
words] upon receipt by us of your first demand in writing accompanied by a written statement stating  
that the Contractor is in breach of its obligation in repayment of the Advance payment under the  
Contract.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance  
payment repaid by the Contractor.

This guarantee shall expire on -----[ Insert the date, 60 days beyond the Intended  
Completion Date]

Consequently, any demand for payment under this guarantee must be received by us at this office on  
or before that date.

\_\_\_\_\_  
[signature(s)]

## **Section III**

### **Conditions of Contract (CoC)**

## **Conditions of Contract (CoC)**

Conditions of contract will be applicable for this bid which is given in Section III of the Standard Bidding Document for Procurement of Works, CIDA publication NO: ICTAD/SBD/01, Second Edition, January 2007, Published by the Construction Industry Development Authority(CIDA)conditions of contract shall be read in conjunction with Contract Data

**All conditions and the content of CIDA Publication No. ICTAD/SBD/01***(Second Edition – January 2007)* **is valid for this bid and / or contract**, unless otherwise amended, substituted or added by “Section V -Bidding Data & Contract Data” of this document.

**Conditions of Contract** shall be read in conjunction with the “Section V – Bidding Data & Contract Data” in this Document.

**Note:**

The ICTAD Document referred to in Sections 1 & 3 above will not be issued with this Document.

The bidders are advised to purchase this document from  
Construction Industry Development Authority  
(CIDA), “Savsiripaya”, No.123, Wijerama Mawatha, Colombo 07.

**Section IIIA**  
**Special Conditions of Contract**

## **SPECIAL TENDER CONDITIONS**

1. The bidders are advised to visit the site (with prior permission from the Principal of the College) and get a clear understanding of the work site before bidding.

2. The bidders shall note that the site for the works is situated in a premises where hundreds of Students and taking part in educational activities.

### **3. NOISE AND VIBRATION CONTROL MINIMIZE NOISE:**

(a) Take all practicable precautions to minimize noise resulting from work under the contract. Fit all construction equipment with noise suppressors and use so that noise is minimized.

(b) Under mentioned condition shall be included in the Tender documents as “The Contractor should take steps to ensure that the smooth functioning of the College won’t be disturbed during the entire construction period within the premises.”

### **4. DISPOSAL OF REFUSE**

Remove refuse from the site (including food scraps and the like) resulting from work under the contract. Handle refuse in a manner so as to confine the material completely and prevent dust emission. The site shall be left clean and tidy on completion of the contract.

Unless otherwise specified contractor should hand over the usable materials to the Employer during the demolition work and all the care should be taken to remove such item without any damages.

### **5. DUST CONTROL**

Restrict dust and windblown sand caused by the works as required.

### **6. TRUCKING**

Convey soils, earth, sand, loose debris, and similar loose materials to or from the site in a manner that will prevent dropping of materials on footpaths and streets. Ensure that the wheels, tracks and body surfaces of all vehicles and plant leaving the site are free of mud. Ensure that no motor vehicle leaves the site loaded with any material unless it is locked in a manner which prevents the discharge or dropping of any of the materials.

Ensure that a cleanup is performed on a daily basis or as required along the route taken by the trucks.

### **7. EXISTING BUILDING ADJOINING THE PROPOSED BUILDING**

Adequately protect from damage Buildings, grass and other plants and trees which need not be removed or destroyed for construction operations, or which are shown on the drawings and /or specified to be retained, or which are beyond the limits allowed to the contractor as shown or specified.

### **8. TEMPORARY FENCE**

Enclose the areas defined in CONTRACTOR’S SITE AREAS with a temporary man proof security fence with adequate gates. Remove on completion and make good the grounds.

### **9. SAFETY**

Priced quoted for item should be included with all necessary costs of provisions for safety of materials, workmen, visiting parties from consultant and client. Also the price quoted for items should be included with all necessary costs of provisions to keep the site clean at all times preventing sources and places for mosquito breeding and preventing measures for spreading disease from the site.

**Section IV**  
**Form of Bid and Qualification Information**



## Form of Bid

Name of Contract: **Construction of 90'x25' Two Storied Class Room Building, Construction of Toilet Block, Single Toilets and Chain Link Fence, Repair works of 60'x20', 80'x20' Class Room building and Teacher's Quarters at West Ward Ho Tamil Vidyalayam, Nuwaraeliya**

Contract No: COL/DC/228/03/2018 - 5

To: The Counsellor, High Commission of India

Gentleman,

1. Having examined the Standard Bidding Document - Procurement of Works [ICTAD/SBD/01 - Second Edition, January 2007], Conditions of Contract, Specifications, Drawings, Schedules and Addenda for the execution of the above-named Works, we the undersigned, offer to execute and complete such Works and remedy any defect therein in conformity with the aforesaid Conditions of Contract, Specifications, Drawings, Schedules and addenda no.....for the sum of Sri Lankan Rupees..... (LKR ..... ) or such other sums as may be ascertained in accordance with the said Conditions.

2. We acknowledge that the Contract Data forms part of our Bid.

3. We undertake, if our Bid is accepted, to commence the Works as stipulated in the Contract Data, and to complete the whole of the Works comprised in the Contract within the time stated in the Contract Data.

4. We agree to abide by this Bid for the period of **91 Days** from the date fixed for receiving or any extended period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

5. Unless and until a formal agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

6. We accept / we do not accept the Adjudicator.

7. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this ..... day of ..... 20... in the capacity of .....duly authorized to sign tenders for and on behalf of .....

(IN BLOCK CAPITALS)

Signature : .....

Name : .....

Designation : .....

COMPANY SEAL

Address : .....

Witness : .....

### Qualification Information

<b>ICTAD Registration</b>	
Registration number	<i>(attach copies of relevant pages from the registration book)</i>
Grade	
Specialty	
Expiry Date	
<b>Blacklisted Contractors</b>	
Have you been declared as a defaulted contractor by NPA or any other Agency?	
IF yes provide details	
<b>VAT Registration Number</b>	
<b>Construction Program</b>	<i>( attach as annex)</i>
<b>Legal status</b>	<i>(attach relevant status copies, as annex)</i>
<b>Value of Construction works performed in last 5 years</b>	<i>(attach copies of Certificate of Completion etc. and other documents such as profit-loss and income expenditure statement)</i>
Year .....	
Year .....	
Year .....	
Year .....	
Year .....	
<b>Value of similar works completed in last 10 years (indicate only the three largest projects) - As per Format 1</b>	1. Value                      Year ..... 2. Value                      Year ..... 3. Value                      Year ..... <i>(attach copies of Certificate of Completion etc., as annex)</i>
<b>Value of work in hand As per Format 2</b>	Rs:.....
<b>Major items of construction equipment proposed</b>	1. type Capacity ..... 2. type Capacity ..... 3. type Capacity ..... 4. type Capacity ..... 5. type Capacity .....
<b>Qualification and experience of key staff – Site &amp; Head Office (Permanent, Contract basis &amp; Consultants) As per Format 3</b>	Technical: 1. 2. 3.
	Managerial: 1. 2. 3.
<b>Other information requested under ITB Clause 4.1</b>	

**Format -1**

Works of Similar Nature Completed- (Since )

Name and Location of Project	Description of Work	Name, Address, Contract no & Client Name	Nature of Work	Value of Work	Date of Commencement	Date of Completion

**Format - 2**

Work in Hand (As on 21 days prior to Last Date of Close of Bid)

Name of the Client	Nature of Work	Value of Contract	Scheduled Date of Completion	Value of work Completed	Value of outstanding construction work

**Format - 3**

Qualification and experience of key staff – Site &amp; Head Office

**(a) Professional Staff**

Name	Proposed Position	Qualification and Date of Achievement(Attached copies of Certificates)	No. of years of Post Qualification Experience	Engagement with Company (Permanent/Part Time)

**(b) Technical Staff**

Name	Proposed Position	Qualification and Date of Achievement(Attached copies of Certificates)	No. of years of Post Qualification Experience	Engagement with Company (Permanent/Part Time)

## **Section V**

# **Bidding Data and Contract Data**

## Bidding Data

### Instructions to Bidders

Clause Reference	
(1.1)	<p>The Employer is</p> <p>Name: High Commission of India</p> <p>Address: No. 36-38, Galle Road, Colombo 03</p> <p>The works consists of  <b>Construction of 90'x25' Two Storied Class Room Building,  Construction of Toilet Block, Single Toilets and Chain Link Fence,  Repair works of 60'x20', 80'x20' Class Room building and Teacher's  Quarters at West Ward Ho Tamil Vidyalayam, Nuwaraeliya</b></p>
(1.2)	Intended Completion Date is <b>365 calendar days</b>
(1.3)	<p>The office for collection of bid forms is  <b>Project Officer  High Commission of India  Colombo 03</b></p> <p>The non-refundable fee is Rupees <b><u>Rs. 5,000.00</u></b></p> <p>The Bid forms will be issued until <b>10 November 2020</b></p> <p><b>The bidding documents may also be downloaded free of cost from  Mission's website <a href="http://www.hcicolombo.gov.in">www.hcicolombo.gov.in</a>.</b></p>
(2.1)	The source of funds is <b>Government of India</b>
(4.2)	<p>The registration required  <b>Specialty-Building Construction</b></p> <p><b>Grade- C4 and C6 of the ICTAD (presently CIDA) registration</b></p> <p><b>The <u>Successful Bidder</u> should be registered in terms of the Public  contract Act no.3 of 1987 prior to the contract award</b></p>
(4.3)	<p>The following information shall be provided in Section 4:</p> <p>* ICTAD (Now CIDA) Registration;  Registration number  Grade  Specialty</p>

	<p>Expiry Date</p> <ul style="list-style-type: none"> <li>* VAT Registration number and certificated copy should be attached</li> <li>* Construction Programme</li> <li>* Business Registration</li> <li>* Audited Accounts for Last 5 Years(2019-2015) to prove annual turnover</li> <li>* Legal Status (Sole proprietor, Partnership, Company etc.)</li> <li>* Power of Attorney from Board of Directors or Board of Resolution for signatory</li> <li>* Authentication for signatory by Affidavit</li> <li>* Total monetary value of construction work performed for each of the last five years;</li> <li>* One similar work value not less than 80% of the project value or two similar work value not less than 50% of the project value or three similar work value not less than 40% of the project value.</li> <li>* Works in hand</li> <li>* Major items of construction equipment proposed to carry out the Contract;</li> <li>* Qualifications and experience of key site management and technical personnel proposed for the Contract;</li> <li>* any other</li> </ul> <p><b>Note:</b></p> <p><b>1. Bids will be evaluated in two stages. Technical bids will be evaluated initially. Financial bids of the technically qualified bidders will be evaluated.</b></p> <p><b>2. Failure to submit above document, bid will be treated as None responsive and rejected</b></p>
(4.4)	<ul style="list-style-type: none"> <li>* Average of the annual volume of construction work (Annual Turnover) performed in the last five years shall be at least <b>Rs.47Million</b></li> <li>* Experience in the construction of at least one contract of a nature and complexity equivalent to the Works over the last 5 years (to comply with this requirement, works cited should be at least 70 percent completed);</li> <li>* Following technical and managerial Staff: <ul style="list-style-type: none"> <li>• Engineer 01 no. (Part time) - B.Sc (Civil) with 05 years experience</li> <li>• Technical officer02 nos. having of NDT(Civil) or equivalent with 05years experience or NCT (civil) or equivalent with 10years experience</li> </ul> </li> <li>*The minimum amount of liquid assets and/or credit facilities net of other contractual commitments and exclusive of any advance payments which may be made under the contract shall be not less than <b>Rs.10Million</b>. Credit/Overdraft facility should be issued by the Bank <b>exclusively for this project</b></li> </ul>
(9.1)	<p>Employer's address for the purpose of clarification is</p> <p>Name: The Counsellor</p>

	<p>Address: High Commission of India</p> <p>No. 36-38, Galle Road, Colombo 03</p> <p>Telephone :0112422788</p> <p>Fax:0112446403</p>
(11.1)	The language of the bidding document shall be English
(13.3)	VAT component shall not be included in the rates. The amount written in the Form of Bid shall be without VAT. However VAT component shall be shown separately at the end of the BOQ.
(13.4)	The Contract is not subjected to price adjustment.
(15.1)	The Bid shall be valid 120 days from opening of bids
(16.1)	Bid shall include a Bid Security using the form included in Section 9
(16.2)	<p>Bid Security shall be:</p> <ul style="list-style-type: none"> <li>• for an amount <b><u>Rs.614,971.75</u></b></li> <li>• Valid until 30 April 2021 (165 days from opening of bids)</li> <li>• Issued by a commercial bank operating in Sri Lanka and approved by the Central Bank of Sri Lanka in favour of the The Counsellor, High Commission of India, No. 36-38, Galle Road, Colombo 03 using the form for bid security (unconditional guarantee) included in Section 9, Standard Forms</li> </ul>
(17.0)	<p>Pre Bid meeting -</p> <p>venue High Commission of India, Colombo 03</p> <p>date 06 November 2020</p> <p>time 11pm</p>
(19.2)a	<p>The Employer's address for the purpose of Bid submission is</p> <p>High Commission of India</p> <p>No. 36-38, Galle Road,</p> <p>Colombo 03</p>
(19.2)b	<p>Contract Name:</p> <p><b>Construction of 90'x25' Two Storied Class Room Building, Construction of Toilet Block, Single Toilets and Chain Link Fence, Repair works of 60'x20', 80'x20' Class Room building and Teacher's Quarters at West Ward Ho Tamil Vidyalayam, Nuwaraeliya</b></p> <p>Contract no. COL/DC/228/03/2018 - 5</p>

<b>(20.1)</b>	The deadline for submission of Bids shall be <b>16 November 2020</b>
<b>(34.0)</b>	Amount of Performance Security required is 5% of the Initial Contract Price valid up to 60 days beyond the retention period, issued by a reputed commercial bank operating in Sri Lanka approved by Central Bank. The form acceptable is the one that given in the <b>section II</b> of this document
<b>(36.0)</b>	Any dispute or difference regarding the interpretation of the provisions of the Agreement/Contract shall be resolved amicably between the parties. If the dispute is not resolved through mutual consultations within a period of six months, either party may refer the dispute to arbitration in accordance with the Arbitration & Conciliation Act 1996 of India as amended from time to time. The number of arbitrators shall be one and that the place of arbitration shall be New Delhi, India. In such a situation the applicable law will be the law of India. The language of the Tribunal shall be English. The cost shall be borne by the parties equally unless otherwise determined by the Arbitral Tribunal.



## Contract Data

<b>(1.1)</b>	<p>Employer is: High Commission of India</p> <p>Address: No.36-38, Galle Road, Colombo 03</p> <p>Employer's Representative: Ministry of Education</p> <p>Address : Ministry of Education Isurupaya, Battaramulla</p>
	<p>Engineer is:</p> <p><b>Project Engineer (Central Province)</b></p> <p>Address : <b>Project Engineer's Office (NSBS)</b> <b>„NSBS' Project,</b> <b>Mahaweli National College of Education,</b> <b>Polgolla,</b> <b>Kandy.</b> <b>TP. 081-2497027</b></p>
<b>(1.1)</b>	<p>The works consists of</p> <p><b>Construction of 90'x25' Two Storied Class Room Building, Construction of Toilet Block, Single Toilets and Chain Link Fence, Repair works of 60'x20', 80'x20' Class Room building and Teacher's Quarters at West Ward Ho Tamil Vidyalayam, Nuwaraeliya</b></p>
<b>(1.1)</b>	<p>The Site is located at <b>West Ward Ho Tamil Vidyalayam, Nuwaraeliya</b></p>
<b>(1.1)</b>	<p>The Start Date shall be 14Days from the Letter of Acceptance</p>
<b>(8.1)</b>	<p>None</p>
<b>(9.1)</b>	<p>Schedule of Key Personal</p> <ul style="list-style-type: none"> <li>• Engineer 01 no. (Part time) - B.Sc (Civil) with 05 years experience</li> <li>• Technical officer (02 nos.) having of NDT(Civil) or equivalent with 05years experience or NCT (civil) or equivalent with 10 years experience</li> </ul>
<b>(13.1)</b>	<p>The minimum insurance covers shall be :</p> <p>(a) • The minimum cover for insurance of the Works and of Plant and Materials is 110% of Initial Contract Price</p> <ul style="list-style-type: none"> <li>• The maximum deductible for insurance of the Works and of Plant and Materials is 5% of Initial Contract Price</li> </ul> <p>(b) • The minimum cover for loss or damage to Equipment is 100% of</p>

	<p>equipment cost</p> <ul style="list-style-type: none"> <li>The maximum deductible for insurance of Equipment is 5% of minimum cover for equipment.</li> </ul> <p>(c) • The minimum cover for insurance of other property (other than the Site) is Rs. 5,000,000.00</p> <p>(d) The minimum cover for personal injury or death,</p> <ul style="list-style-type: none"> <li>for third party and employees of the Employer and other persons engaged by the Employer in the Works Rs.1,000,000.00 per event</li> </ul>
<b>(13.2)</b>	<p>a) The minimum cover for personal injury or death,</p> <ul style="list-style-type: none"> <li>for the Contractor's workmen is Rs.1,000,000.00 per event</li> <li>Contractor's employees other than workmen is Rs.1,000,000.00 per event</li> </ul>
<b>(17.1)</b>	The Intended Completion Date for the whole of Works shall be <b>365 calendar days</b>
<b>(21.1)</b>	The Site Possession Date shall be 14 Days from Letter of Acceptance
<b>(27.1)</b>	The Contractor shall submit a programme for the Works within 14 Days of delivery of the Letter of Acceptance.
<b>(27.3)</b>	The period between Programme update is Monthly
<b>(27.4)</b>	The amount to be withheld for late submission of a Programme is <b>Rupees Fifteen Thousand</b>
<b>(35.1)</b>	The Defects Liability Period is <b>365 Days</b> .
<b>(42.3)</b>	Minimum amount of Interim payment Certificate shall be SLR 5 million.
<b>(47.1)</b>	The Contract Price is not subjected to price adjustment
<b>(48.1)</b>	<p>The retention from each payment shall be 10% of the certified work done.</p> <p>The limit of retention shall be 5% of the Initial Contract Price.</p>
<b>(48.3)</b>	Not Applicable (Retention Money Guarantee)
<b>(49.1)</b>	The liquidated damages for the whole of the Works shall be 0.08% of the Initial Contract price per Day.
<b>(50.1)</b>	The maximum amount of liquidated damages for the whole of the Works shall be 10% of the Initial Contract Price.
<b>(51.1)</b>	<p>Modified as per rules of Government of India</p> <p>An interest-bearing mobilization advance may be paid to the contractor exclusively for the costs of mobilization at 10 % of the contract price on the provision by the contractor of an unconditional Bank Guarantee (BG). Such BG shall remain effective until the advance payment has been fully repaid, but the amount thereof shall be progressively reduced by the amount repaid by the contractor, as indicated in the interim payment certificates (IPCs). The advance will be paid in two installments, each of 5%. The first installment may be paid on commencement of the work</p>

	<p>against an unconditional BG in respect of the advance. The second installment may be paid on certification by the engineer of the contractor's having achieved a financial progress of 10% of the contract price, as also provision of a BG by the contractor for this part of the advance. Mobilization expenditure mentioned herein shall not include the margin money and bank commission, and so on, paid by the contractor for procurement of BGs against performance security and mobilization advance. A simple interest @ 10% will be charged on the mobilization advance.</p> <p>Advance Payment Security shall be issued by an agency acceptable to Employer using the form for Advance Security (unconditional guarantee) included in Section 05 Standard Forms and it should be valid for 60 days beyond the Intended Completion Date and shall be in favour of Counsellor (Development Cooperation), High Commission of India, Colombo.</p> <p>The agencies acceptable to Employer are:</p> <ul style="list-style-type: none"> <li>• A commercial bank operating in Sri Lanka approved by Central Bank of Sri Lanka;</li> <li>• a bank based in another country but the guarantee "confirmed" by a bank operating in Sri Lanka approved by Central Bank of Sri Lanka</li> <li>• Construction Guarantee Fund.</li> </ul>
<b>(52.1)</b>	The Performance Security shall be 5% of the Initial Contract Price Valid up to 60 days beyond the retention period, issued by a reputed commercial bank operating in Sri Lanka approved by the Central Bank on the format issued with the bidding document.
<b>(60.1)</b>	The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is 25% of Initial Contract price.
<b>(63.7)</b>	The attendance fee payable to the Contractor on nominated sub contract work shall not exceed 8%

## **Section VI**

# **Specifications**

## General Specifications

1. Specification for Building works – Volume I – ICTAD publication No. SCA/4/1  
3<sup>rd</sup> Edition (Revised) – 2004 July
2. Specification for Building works – Volume II Sanitary Installations – ICTAD publication No. SCA/4/II  
2nd Edition (Revised) – 2001 October
3. Specification for Water Supply & Sewerage and Storm Water Drainage works – ICTAD publication No. SCA/3/2  
2nd Edition (Revised) – 2002 April
4. Specification for Electrical and Mechanical works associated with Buildings & Civil Engineering – ICTAD publication No. SCA/8  
2nd Edition (Revised) – 2000 August

## **Section VII**

### **Bills of Quantities**

	<p><b>A - NOTES</b></p> <p>This Bill of quantities are contained with numbered pages in consecutive order. Therefore, please check to see that no page is missing, nor any in duplicate &amp;. that all TRADES are carried to SUMMARY at the end of this Bills of Quantities.</p> <p><b>A<sub>1</sub> - Extent of work.</b></p> <p>The extent of work to be carried out shall consist of the following:-</p> <ol style="list-style-type: none"> <li>Proposed <b>Construction of buildings and repair works.</b></li> <li>All other work as specified or shown in drawings.</li> </ol> <p><b>A<sub>2</sub> - Specifications:</b></p> <p>All items of work are to be strictly as shown in drawings accordance with and read in conjunction with the Sri Lanka specification for Building works (ICTAD Publications).</p> <p><b>A<sub>3</sub> - Inspection of site:</b></p> <p>Tenderers are requested to visit the site &amp; acquaint themselves with all existing conditions &amp; with the nature &amp; extent of work to be done under this contract.</p> <p><u><i>As no extras will be allowed on the plea of want of information due to neglect on their part in this regard.</i></u></p> <p><b>A<sub>4</sub> - Materials</b></p> <p>Sand : River Sand &amp; granite metal to be used for all concrete works</p> <p><b>A<sub>5</sub> - Trades Names</b></p> <p>Where trade names, brands and / or catalogue numbers are referred to sole preference to any material or equipment is not intended. Any other material or equipment may be used, provided that the characteristics of type, quality, appearance, finish, method of construction and / or performance is not less than specified and provided also that <u><i>approval is first obtained.</i></u></p>
	<p><b>A<sub>6</sub> - Method of Measurement :-</b></p> <p>This Bill of Quantities has been prepared generally in accordance with:-</p> <ol style="list-style-type: none"> <li>The principles of the Standard method of measurements for building works in Sri Lanka (SLS : 573 : 1999)</li> </ol>

	<p><b>A<sub>7</sub> - Rates for all items shall be inclusive of the following:</b></p> <p>(a) All supply of materials labour, Plant, Scaffolding, Waste, and Incidental Materials, Fixing media, Cartage, Hoisting, and Fitting &amp; Fixing complete.</p> <p>(b) Providing holes, chasings etc. as directed for electrical installation &amp; all other services, making good the same as when such installations are provided.</p> <p>(c) Providing samples, Specimens etc. for such items of work as required.</p> <p>(d) All overheads &amp; profits except where otherwise stated.</p> <p>(e) Testing of all building materials and Mechanical, Electrical and Plumbing System.</p> <p>(f) Furnishing monthly 3 sets of photograph for the building under construction, from three locations identified by the Engineer.</p> <p>(g) All Protective and safety measures shall be taken in compliance with relevant standards and regulations.</p> <p>(h) Carry out the works carefully with adequate protection in order to avoid any damage to the existing building during the repair works.</p> <p>(i) Providing security and safeguarding the works, material and plant against damage, vandalism and trespass.</p> <p><b>Electrical Installations;</b></p> <p>(j) All Electrical installation shall be done according to the IET wiring regulations – 17th edition (BS7671:2008 incorporating amendment number 3:2015).</p> <p>(k) All MCCB, RCD, MCB and isolators shall be European, Japanese or equivalent.</p> <p>(l) All types of fans shall be approved quality and shall have minimum one year warranty period.</p> <p>(m) Ceiling fans shall be complied with the SLS 814 and shall have cut off safety switch and safety wire provided to prevent detachment of fan motor from the rod.</p> <p>(n) All types of LED lamp fittings should have minimum Two years warranty period.</p> <p>(o) Samples of all materials shall be approved by the Engineer prior to installation.</p>
	<p><b>A<sub>8</sub> - Measurement</b></p> <p>Tenderers are to note that the measurements are taken absolutely net, unless otherwise stated and they must, therefore, allow in their prices for all straight cutting &amp; waste, laps, etc. throughout even through not specifically mentioned.</p>
	<p><b>A<sub>9</sub>- Discrepancies:</b></p> <p>Any discrepancies in Drawings, Specifications, Bills of Quantities or any other documents shall be brought to the notice of the employer <i>before bidding</i>.</p>



	<p><b>A<sub>10</sub> - Payments.</b></p> <p>Payments shall be made on actual quantity of work carried out at the site as per contract. The quantities set out in the Bill of Quantities are provisional and cover the approximate scope of the work, which is anticipated to be performed by the Contractor. The actual quantities used for final measurement purposes will be determined by the Engineer by measurement of the work completed by the Contractor.</p> <p>The attention of the tenderer is drawn to the requirements of the contract, the specifications and any other particulars of the tender. It is the tenderers responsibility to see that his prices include for complying with all the requirements of the conditions of contract and any other documents whether specifically referred to in the Bill of Quantities or not.</p>
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## Day Work

The cost of labour included in a sum shall include wages, bonuses, all allowances paid to operatives directly engaged on day works and overhead& profit. the actual payments made to the work people concerned.

The cost of materials included in a sum shall be the net invoiced price, including delivery to site, loading, unloading material and overhead& profit.

The cost of constructional plant included in a sum shall include fuel, consumable stores, repairs, maintenance, insurance of plant and overhead& profit.

Item No:	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Mason	Hr.	1		
2	Carpenters	Hr.	1		
3	Joiner	Hr.	1		
4	Bar Bender	Hr.	1		
5	Welder	Hr.	1		
6	Electrician	Hr.	1		
7	Painter	Hr.	1		
8	Aluminium Fabricator	Hr.	1		
9	Glazier (Glass fixing)	Hr.	1		
10	Tiler	Hr.	1		
11	Plumber	Hr.	1		
12	Machine Operator	Hr.	1		
13	Un Skilled worker	Hr.	1		
14	Cement (50Kg bag)	Bag	1		
15	River Sand	Cube	1		
16	Slacked Lime(50Kg bag)	Bag	1		
17	Metal 20mm	Cube	1		
18	Metal 25mm	Cube	1		
19	Reinforcing steel High Yield Steel (fy=425 N/mm2)	Kg	1		
20	Reinforcing steel Mild Street (fy=250 N/mm2)	Kg	1		
21	Rubble 150 – 225mm	Cube	1		
22	Wire cut bricks (1000 Nos.)	Nr.	1		
23	Common Bricks (1000 Nos.)	Nr.	1		
24	Imported earth	Cube	1		
25	Query dust	Cube	1		
26	Imported timber for carpentry work- (Malaysian seasoned to treated)	Ft <sup>3</sup>	1		
27	Imported timber for joinery work (- Ditto-)	Ft <sup>3</sup>	1		
28	Local timber for carpentry work (- Ditto-)	Ft <sup>3</sup>	1		

Item No:	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
29	Local timber for Joinery work(-Ditto-)	Ft <sup>3</sup>	1		
30	Plywood for lining etc.	Sqr.	1		
31	Plywood for formwork	Sqr.	1		
32	Local timber for Temporary work(-Ditto-)	Sqr.	1		
33	Driver with vehicle up to 14 ton	Hr.	1		
34	Operator with Excavation Dragline, Shovel or Crane	Hr.	1		
35	Operator with Tractor (Tracked) with Dozer blade or Ripper	Hr.	1		
36	Concrete Mixer	Hr.	1		
37	Concrete Pump	Hr.	1		
38	Plate Compactor	Hr.	1		
39	Poker Vibrator	Hr.	1		
40	Air Compressor	Hr.	1		
41	Compressed Air Operated Breaker (Heavy duty)	Hr.	1		
42	Operator with Mobile Crane	Hr.	1		
43	Operator with Tipper Truck	Hr.	1		
44	Operator with Baby Dumper	Hr.	1		
45	Operator with Truck Mixers (Concrete transporters)	Hr.	1		
46	Water Pumps	Hr.	1		
47	Welding plant	Hr.	1		
	Operator with Excavator, face shovel or dragline				
48	a. Up to and including 1 cu.m	Hr.	1		
49	b. Over 1 cu.mbut not over 2 cu.m	Hr.	1		
50	c. Over 02 cu.m	Hr.	1		
51	Operator with Tractor (tracked) including bull or angle dozer	Hr.	1		
	Generator				
52	a. Up to and including 150 KW	Hr.	1		
53	b. Over 150, 200 KW	Hr.	1		
54	c. Over 200, 250 KW	Hr.	1		
	Operator with Tractor with Trailer				
55	a. 3.0 m <sup>3</sup> capacity	Hr.	1		
56	b. 2.0 m <sup>3</sup> capacity	Hr.	1		
	Operator with Front End Loader / Mechanical Shovel				
57	a. 1.0m <sup>3</sup> to 2.0 m <sup>3</sup> capacity	Hr.	1		

## **Section VIII**

### **Drawings**

## List of Drawings

SN.	Description	Drawing No.
	<b><u>Construction of 90'x25' Two Storied Class Room Building</u></b>	
1	Footing detail	
2	Layout plan of plinth beam	
3	Plinth beam	
4	Layout plan of beams	
5	Beam reinforcement	
6	Reinforcement detail of 1st and 2nd Floor slabs	ST-02
7	Front elevation and sections	CPC/CS/11/04/2016/TSC/COLD/CS-07
8	Ground floor, First floor	CPC/CS/11/04/2016/TSC/COLD/CS-07
9	Layout plan of foundation, beams	CPC/CS/11/07/01/2012/PLAN-1.2
10	Column reinforcement	
11	Beam details 1	
12	Beam details 2	
13	Staircase detail	CPC/CS/11/07/01/2012/PLAN-1.7
14	Reinforcement detail of slab	CPC/CS/11/07/01/2012/PLAN-1.5
15	Layout plan of Tie beams and Trusses	CPC/CS/11/04/2016/TSC/COLD/CS-07
16	Layout plan of purlins	CPC/CS/11/04/2016/TSC/COLD/CS-07
17	Detail of Truss – TR1	CPC/CS/11/04/2016/TSC/COLD/CS-07
18	Detail of “A” & “B”	CPC/CS/11/04/2016/TSC/COLD/CS-07
19	Detail of “C”	CPC/CS/11/04/2016/TSC/COLD/CS-07
20	Detail of Truss – TR2	CPC/CS/11/04/2016/TSC/COLD/CS-07

## **Section IX**

### **Standard Forms (Bid)**

## FORM OF BID SECURITY

*[this Guarantee form shall be filled in accordance with the instructions indicated in brackets]*

----- *[insert issuing agency's name, and address of issuing branch or office]*

**Beneficiary:** The Counsellor, High Commission of India, Colombo 03

**Date:** ----- *[insert (by issuing agency) date]*

**BID GUARANTEE No.:** ----- *[insert (by issuing agency) number]* We have been informed that ----- *[insert (by issuing agency) name of the Bidder]* (hereinafter called "the Bidder") has submitted to you its bid dated ----- *[insert (by issuing agency) date]* (hereinafter called "the Bid") for the execution of *[insert name of Contract]* under Invitation for Bids No. ----- *[insert IFB number]* ("the IFB").

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we ----- *[insert name of issuing agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----- *[insert amount in figures]* ----- *[insert amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB") ; or
- (c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This Guarantee shall expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or (b) if the Bidder is not the successful bidder, upon the earlier of the successful bidder furnishing the performance security, otherwise it will remain in force up to -----  
--- *(insert date)*

Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date.

\_\_\_\_\_  
*[signature(s) of authorized representative(s) ]*

## CHECK LIST FOR BIDDERS

**BIDDERS ARE ADVISED TO FILL THE FOLLOWING TABLE:**

ITEM	ITB Clause	YES (tick)	REFERENCE
<b>Form of Bid</b>			
Addressed to the Employer?	<b>18</b>		
Completed?	<b>18</b>		
Signed?	<b>18</b>		
<b>Bid Securing Declaration Form(If required)</b>			
Properly filled and signed	<b>16</b>		
<b>Bid Security (If required)</b>			
Addressed to the Employer?	<b>16</b>		
Format as required ?	<b>16</b>		
Issuing Agency as specified?	<b>16</b>		
Amount as requested?	<b>16</b>		
Validity <b>45 days beyond</b> the validity of Bid?	<b>16</b>		
<b>Qualification Information</b>			
All relevant information completed?	<b>4</b>		
Signed?	<b>4</b>		
<b>Addendum</b>			
Contents of the addendum (if any) taken in to account?	<b>10</b>		
<b>BID package</b>			
All the documents given in ITB Clause 12 enclosed in the original and Copy?	<b>12</b>		
ITB Clause 19 followed before Sealing the Bid Package?	<b>19</b>		



**Bills of Quantities for Construction of 90'x25' Two Storied Class Room Building, Construction of Toilet Block, Single Toilets and Chain Link Fence, Repair works of 60'x20', 80'x20' Class Room building and Teacher's Quarters at West Ward Ho Tamil Vidyalayam, Nuwara eliya**

Item no	Description of work	Unit	Qty	Rate(Rs.)	Amount (Rs.)
	<b>Preliminaries</b>				
A-01	Allow lump sum for providing a Performance Guarantee and Mobilization Advance Guarantee.	P.sum			<b>70,500.00</b>
A-02	Allow lump sum for Insurance of Property, Material, Equipment ,Works at site, third party Employer's personnel, property at site and against accidents and injury to workmen.	P.sum			<b>40,000.00</b>
A-03	Allow lump sum for the Construction management services and Supervisory services as per the contract	Item	1.00		
A-04	Allow lump sum for constructing, maintaining and dismantling on completion of the works a temporary site office of adequate size including toilets, electricity & water services for the Engineer's staff , Contractor's site management staff . Engineers staff allocate space for the furniture and sanitary facilities.	Item	1.00		
A-05	Allow lump sum for constructing, maintaining and dismantling on completion of the works buildings to be used as workshops and stores for perishable materials and plant to the approval of the Engineer.	Item	1.00		
A-06	Allow lump sum for providing of name board, (Size 8'-0x4''-0), complete to the approval of the Engineer.	Item	1.00		
A-07	Allow lump sum for carrying out tests including concrete test cubes,tests and approvals.	Item	1.00		
A-08	Allow lump sum for Providing water for use	Item	1.00		
A-09	Allow lump sum for Providing electricity for use	Item	1.00		
A-10	Allow lump sum for provision of As -built. Drawing etc.	Item	1.00		

Item no	Description of work	Unit	Qty	Rate(Rs.)	Amount (Rs.)
A-11	Allow lump sum for necessary protective fencing , dust screen, dust sheets, temporary hoarding, barricade, netting, protection screen etc. with warning signs and in compliance with relevant standards and regulations.	Item	1.00		
A-12	Allow lump sum for removal of all temporary works, rubbish and debris and cleaning up site on completion, leaving all in good order and handing over.	Item	1.00		
	<b>Total Amount carried to Grand Summary</b>				

**Bills of Quantities for Construction of 90'x25' Two Storied Class Room Building at West Ward Ho Tamil Vidyalayam, Nuwara eliya**

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>Construction of Ground Floor</b>				
	<b>Work up to DPC</b>				
	<b>EXCAVATION AND EARTHWORK</b>				
	<b>Excavation in foundation in normal earth up to a depth of 1.5m inclusive of backfilling, compacting and disposal of surplus earth.</b>				
1	in column pit	m <sup>3</sup>	46.75		
2	Rock excavation in column footings or wall foundations.	m <sup>3</sup>	3.00		
3	Filling earth and compacting (as approved by Engineer) 150mm layers under floors. Rate includes for transport of 30 m.	m <sup>3</sup>	44.50		
	<b>Total Amount carried to Summary - GF</b>				
	<b>CONCRETE WORKS</b>				
4	Mixing and placing in position concrete 1:3:6 (40mm) using a concrete mixer including fuel / operator / handling.	m <sup>3</sup>	3.20		
	<b>Mixing and placing in position concrete grade 20, nominal mix 1:2:4 ( 20mm) using a concrete mixer including fuel / operator / handling/vibrator.</b>				
5	in column footing / stair footing	m <sup>3</sup>	19.60		
6	Sawn timber formwork in class III timber for ground concrete works at up to DPC - in column footing / stair footing	m <sup>2</sup>	85.50		
7	Sawn timber formwork in class III timber for up to DPC - in column shaft / stair shaft	m <sup>2</sup>	23.00		
	<b>Tor steel reinforcement bend to shape laid in position and tied with G.I. wire as directed. Up to DPC</b>				
8	in footing	kg	1,368.00		
	<b>Mild steel reinforcement bend to shape laid in position and tied with G.I. wire as directed. Up to DPC</b>				
9	in column shaft	kg	200.00		
	<b>Total Amount carried to Summary - GF</b>				

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>Works form DPC to 1st floor slab</b>				
	<b>CONCRETE WORKS</b>				
	<b>Mixing and placing in position concrete grade 20, nominal mix 1:2:4 ( 20mm) using a concrete mixer including fuel / operator / handling/vibrator.</b>				
10	columns,slab,beams>window sill etc	m <sup>3</sup>	80.00		
11	Floor concrete 1:2 1/2:5(25mm) 62mm thick with expansion joints filled with 1:2 bitumen and sand rate including curing, compacting and laying polythene sheet under the concrete.	m <sup>2</sup>	192.00		
12	1:2:4(20mm) cement concrete coping over parapet wall wall and stair way guard wall inclusive of cement rendering finished smooth	m	22.50		
13	Cement grill Vent Opening 300x100 mm	m <sup>2</sup>	10.80		
14	750mm wide ramp and 225mm X 150mm(average depth) drain in 1:2 1/2:5(25mm) concrete 75mm thick with 1:3 plaster finished smooth, including necessary excavation, form work, providing expansion joints at 3000mm crs and laying polythene membrane under concrete and laid to required slope.	m	56.00		
15	Drain 225mm X 150mm (average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	19.70		
16	Drain 225mm X 300mm(average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12.5mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	10.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
17	Concrete cover slabs 50mm thick 1:2:4 (20 mm) r/f with, 6mm dia. MS bars at bottom @ 100mm centre. both ways, 1:3 cement and sand rendering finished smooth, pre-cast in, pieces not exceeding 600mm x 450mm placed in position as directed, providing drain holes if required.	m <sup>2</sup>	2.00		
	<b>Sawn timber formwork in class III timber</b>				
18	for columns shaft	m <sup>2</sup>	49.50		
19	For window sills	m <sup>2</sup>	38.50		
20	For beams	m <sup>2</sup>	95.00		
21	For slab	m <sup>2</sup>	229.00		
	<b>Tor steel reinforcement bend to shape laid in position and tied with G.I. wire as directed.</b>				
22	in columns	kg	4,010.00		
23	in slab	kg	2,170.00		
24	in beams	kg	790.00		
	<b>Mild steel reinforcement bend to shape laid in position and tied with G.I. wire as directed.</b>				
25	in columns	kg	1,015.00		
26	in slab	kg	930.00		
27	in beams	kg	340.00		
	<b>Total Amount carried to Summary - GF</b>				
	<b>MASONRY WORKS</b>				
28	Brick work in 1:8 cement sand mortar 225mm thick in super structure in ground floor.	m <sup>3</sup>	20.50		
29	Brick work in 1:5 cement sand mortar 112.5mm thick in ground floor.	m <sup>2</sup>	107.00		
	<b>Total Amount carried to Summary - GF</b>				
	<b>METAL WORK</b>				
30	Anodized aluminium sliding window with aluminium architectural sections with 10 - 15 micron coating glazed with 4.6mm thick glass including all necessary rubber beading, rawl plug etc.(The used sections are 70S 1001, 70S 1101 -1, 70S 1201 - 1, 70S 1401, 70S 1501, 70S 1601, 70S 1701)	m <sup>2</sup>	40.40		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
31	Special security grill fixed for windows complete with perimeter & either side of middle opening frame in 16mm x 5mm M.S flat & 6mm dia.MS bars at 100mm c/c diagonally ,properly welded & fixed to walls with rawl plugs, screws inclusive of two coats of enamel paint on two coats of anticorrosive paint.	m <sup>2</sup>	40.40		
32	Supply and fixing Zn/Al powder coated roller door consisting 0.6mmthick zinc aluminium Powder coated sheet, pulleys, side plate with the racers and necessary U channels. All complete to working order. Excluding the covering box and electrical motor.	m <sup>2</sup>	6.50		
<b>Total Amount carried to Summary - GF</b>					
<b>CARPENTRY AND JOINERY</b>					
33	Door 28mm thick Cl.I timber flush panelled sash single hung with 95mm x 70mm frame, in Treated kempas timber, oxidized heavy duty furniture, Union or Yale original mortice lock, 100mm barrel bolts 02 Nos etc, rate to include primer under coat and two coats of enamel paint. (3Nos of hinges)	m <sup>2</sup>	4.50		
<b>Total Amount carried to Summary - GF</b>					
<b>ELECTRICAL INSTALLATIONS</b>					
34	Pendent type lamp point wiring - to be carried out with 2 x 1.0 mm2 PVC insulated PVC sheathed copper cables wired in concealed conduit in wall and above ceiling to be supplied and installed in working order.(Including sunk switch)	nr	20.00		
35	watertight lamp point wiring - to be carried out with 2 x 1.0 mm2 PVC insulated PVC sheathed copper cables wired in concealed conduit in wall and above ceiling to be supplied and installed in working order .(including sunk switch)	nr	3.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
36	Supply and Installation of fluorescent lamp fittings 1200mm, complete with prismatic diffuser and 1No 36W 1200mm fluorescent bulb in working order. ( With electronic ballast)	nr	20.00		
37	Supply and Installation of watertight wall bracket lamp with 200mm dia. clear acrylic globe and 15W C.F.L. bulb in working order.	nr	3.00		
38	5 A socket outlet - point wiring to be carried out with 2 x 1.0mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5mm <sup>2</sup> earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in to working order.	nr	4.00		Deleted
39	13 A socket outlet / grouped socket outlets - point wiring to be carried out with 2 x 2.5mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5mm <sup>2</sup> earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in to working order. For additional circuit length over 10m, Item No I-260 should be added per meter.	nr	5.00		
40	15 A socket outlet - point wiring to be carried out with 2 x 2.5mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5mm <sup>2</sup> earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in to working order. For additional circuit length over 10m, Item No I-260 should be added per meter.	nr	1.00		
41	Supply and Installation of 5 A socket outlet to working order.	nr	4.00		Deleted
42	Supply and Installation of 13 A socket outlet to working order.	nr	1.00		
43	Supply and Installation of 15 A socket outlet to working order.	nr	1.00		
44	Supply and fixing 12 way Single Phase Distribution Board including 32 A 2P Isolator , 40A 2P R.C.D. (30mA) , 08 Nos single pole M.C.B s.	nr	1.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
45	Supply and Installation of 2 x 6 mm <sup>2</sup> Cu/ PVC/ PVC cable with casing.	m	10.00		
46	Supply and Installation of earth electrode 20mm dia. 4 feet long to working order.	nr	1.00		
47	Extra over concrete chamber for earth electrode in 50mm thick 1:2:4(20mm) concrete side walls with R.C.C cover slab on top. internal dimensions 150mm x 150mm x 300mm.	nr	1.00		
	<b>Total Amount carried to Summary - GF</b>				
	<b>FLOOR / WALL / CEILING FINISHES</b>				
48	20mm thick damp proof course in 1:2 cement and sand trowel smoothly and apply two coats of hot tar, blinded with sand.	m <sup>2</sup>	21.50		
49	16mm thick cement and sand 1:5 plaster finished semi-rough with wooden float.	m <sup>2</sup>	165.00		
50	1:1:5 cement, lime and sand plaster to reveals 35mm to 150mm wide finished semi-rough.	m	285.00		
51	16mm thick 1:1:5 cement, lime and sand plastering to walls finished smooth with lime putty.	m <sup>2</sup>	300.00		
52	1:1:5 cement, lime and sand plaster reveals 35mm to 150mm wide finished smooth with lime putty.	m	172.00		
53	Cement and sand 1:3 plaster finished smooth with lime putty on exposed faces of concrete surfaces and soffits, 10mm thick.	m <sup>2</sup>	285.00		
54	Black board plastering with 1:3 cement and sand finished smooth with black cement floating including moulding at perimeter 20mm thick.	m <sup>2</sup>	22.00		
55	100mm high skirting in cement and sand 1:3 finished smooth with coloured cement including formation of groove.	m	162.00		
56	Floor rendered with 1:3 cement and sand approved coloured surface with expansion joints filled with 1:2 bitumen and sand. (Rate including curing)	m <sup>2</sup>	200.00		



Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
57	Plinth plaster 12mm thick in 1:3 cement and sand finished smooth with coloured cement floating.	m <sup>2</sup>	25.00		
	<b>Total Amount carried to Summary - GF</b>				
	<b>PAINTING</b>				
58	Prepare and apply one coat of alkali resisting primer and two coats of emulsion paint to walls.	m <sup>2</sup>	603.00		
59	Apply one coat of primer and two coats of weathershield paint for new walls.	m <sup>2</sup>	195.00		
60	Floor paint after cleaning and preparing surface, two coats.	m <sup>2</sup>	200.00		
	<b>Total Amount carried to Summary - GF</b>				
	<b>1st floor to roof level</b>				
	<b>CONCRETE WORKS</b>				
	<b>Mixing and placing in position concrete grade 20, nominal mix 1:2:4 ( 20mm) using a concrete mixer including fuel / operator / handling/vibrator.</b>				
61	in Columns,beams>window sill etc	m <sup>3</sup>	47.80		
	<b>Sawn timber formwork in class III timber</b>				
62	in columns	m <sup>2</sup>	83.10		
63	in window sill	m <sup>2</sup>	27.40		
64	in connecting beam	m <sup>2</sup>	32.80		
	<b>Tor steel reinforcement bend to shape laid in position and tied with G.I. wire as directed.</b>				
65	in columns	kg	650.00		
66	in connecting beam	kg	300.00		
	<b>Mild steel reinforcement bend to shape laid in position and tied with G.I. wire as directed.</b>				
67	in columns	kg	210.00		
68	in connecting beam	kg	115.00		
	<b>Total Amount carried to Summary - FF</b>				
	<b>MASONRY WORKS</b>				
69	Brick work in 1:8 cement sand mortar 225mm thick in super structure in ground floor.	m <sup>3</sup>	30.50		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
70	Brick work in 1:5 cement sand mortar 112.5mm thick in ground floor.	m <sup>2</sup>	56.00		
71	cement grill	P.sum			8,000.00
72	Concrete coping	m	3.00		
	<b>Total Amount carried to Summary - FF</b>				
	<b>METAL WORK</b>				
73	Anodized aluminium sliding window with aluminium architectural sections with 10 - 15 micron coating glazed with 4.6mm thick glass including all necessary rubber beading, rawl plug etc.(The used sections are 70S 1001, 70S 1101 -1, 70S 1201 - 1, 70S 1401, 70S 1501, 70S 1601, 70S 1701)	m <sup>2</sup>	45.40		
74	Special security grill fixed for windows complete with perimeter & either side of middle opening frame in 16mm x 5mm M.S flat & 6mm dia.MS bars at 100mm c/c diagonally ,properly welded & fixed to walls with rawl plugs, screws inclusive of two coats of enamel paint on two coats of anticorrosive paint.	m <sup>2</sup>	45.40		
	<b>Total Amount carried to Summary - FF</b>				
	<b>CARPENTRY AND JOINERY</b>				
75	Door 28mm thick flush panelled sash single hung with 95mm x 70mm frame, Jack timber, oxidized heavy duty furniture, Union or Yale original mortise lock, 100mm barrel bolts 2 nos etc.rate to included primer under coat & two coats of enamel paint .(3Nos of hinges)	m <sup>2</sup>	4.60		
	<b>Total Amount carried to Summary - FF</b>				
	<b>ROOF COVERING / ROOF PLUMBING</b>				
76	Supplying & fixing H iron truss as per detail drawing.	kg	950.00		
77	Supplying & fixing C - purlin 150 mmx 65 mmx 12 mm, 2mm thick including prepare & apply 2 coats of anticorrosive paint, necessary nut & bolts 6mm thick cleat and welding works etc.	m	315.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
78	Supplying & fixing sag bolt using 10mm dia tread bar, 10mm steel with necessary nut & bolt.	m	40.00		
79	Supplying & fixing sandwich panel roofing sheets (with various thickness according to the heat generation) excluding transport with self drilling screws (12/135 tim fasteners) & necessary accessories on existing frame work in single story building. Frame work c-purling & brackets for fixing valance board measured separately.	m <sup>2</sup>	305.00		
80	Supplying & fixing 0.47mm thick colour Zn /Al. ridge cap with self drilling screws (Fasteners) minimum girth 470mm.	m	30.00		
81	Supplying & fixing 0.47mm thick colour Zn /Al. barge capping with self drilling screws (Fasteners) .	nr	140.00		
82	Supplying & Fixing 0.47mm thick Zn / Al Valance board including Screws. Nominal girth 470mm .	m	80.00		
83	Gutters 0.47mm thick colour Zn /Al 457mm girth with brackets not exceeding 0.6m crs. rate includes for specials.	m	60.00		
84	Down pipes colour Zn/Al 0.47mm thick 100mm X 100mm with brackets not exceeding 1.2m crs. of the pipe, rate includes for specials.	m	85.00		
85	Allow for transport of rooting materials by using necessary low bed. As per the instruction.	<b>P.sum</b>			<b>60,000.00</b>
	<b>Total Amount carried to Summary - FF</b>				
	<b>ELECTRICAL INSTALLATIONS</b>				
86	Pendant type lamp point wiring to be carried out with 2 x 1.0 mm <sup>2</sup> PVC insulated PVC sheathed copper cables wired in concealed conduit in wall and above ceiling, to be supplied and installed in working order.	nr	22.00		
87	Watertight lamp point wiring - to be carried out with 2 x 1.0 mm <sup>2</sup> PVC insulated PVC sheathed copper cables wired in concealed conduit in wall and above ceiling, to be supplied and installed in working order.	nr	2.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
88	5 A socket outlet - wiring to be carried out with 2 x 1.0mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5mm <sup>2</sup> earth cable wired in concealed conduit in wall and above ceiling, to be supplied and installed in working order.	nr	5.00		Deleted
89	13 A socket outlet / Grouped socket outlets - wiring to be carried out with 2 x 2.5mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5mm <sup>2</sup> earth cable wired in concealed conduit in wall and above ceiling, to be supplied and installed in working order.	nr	7.00		
90	15 A socket outlet - wiring to be carried out with 2 x 2.5mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5mm <sup>2</sup> earth cable wired in concealed conduit in wall and above ceiling , to be supplied and installed in working order.	nr	1.00		
91	Ceiling fan point wiring complete with fan hook - to be carried out with 2 x 1.0 mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5mm <sup>2</sup> earth cable wired in concealed conduit in wall and above ceiling, to be supplied and installed in working order.	nr	8.00		
92	Supplying and installing of earth electrode - dia. 2 inch and 5 feet long GI Pipe with other accessories in working order.	nr	1.00		
93	Supplying and fixing 8 way Single Phase Distribution Board including 63 A 2P Isolator , 63A DP R.C.D. (30mA) , 02 Nos single pole M.C.B s.	nr	1.00		
94	Supplying and installing of 2 x 4 mm <sup>2</sup> Cu/ PVC/ PVC + 2.5 mm <sup>2</sup> E cable Concealed in conduits.	m	10.00		
95	Supplying and installing fluorescent lamp fittings 1200mm, complete with prismatic diffuser and 2No 36W 1200mm fluorescent bulb in working order. (with electronic ballast).	m	22.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
96	Supplying and installing bracket lamp (Bulk head) with 15 W CFL bulb in working order.	nr	2.00		
97	Supplying and installing of 5 A socket outlet in working order.	nr	5.00		Deleted
98	Supplying and installing of 13 A socket outlet in working order.	nr	7.00		
99	Supplying and installing of 15 A socket outlet in working order.	nr	1.00		
<b>Total Amount carried to Summary - FF</b>					
<b>FLOOR / WALL / CEILING FINISHES</b>					
100	16mm thick cement, lime and sand 1:1:5 plaster finished semi-rough with wooden float.	m <sup>2</sup>	190.00		
101	1:1:5 cement, lime and sand plaster to reveals 35mm to 150mm wide finished semi-rough.	m	315.00		
102	16mm thick 1:1:5 cement, lime and sand plastering to walls finished smooth with lime putty.	m <sup>2</sup>	235.00		
103	1:1:5 cement, lime and sand plaster reveals 35mm to 150mm wide finished smooth with lime putty.	m	240.00		
104	Cement and sand 1:3 plaster finished smooth with lime putty on exposed faces of concrete surfaces and soffits, 10mm thick.	m <sup>2</sup>	20.00		
105	100mm high skirting in cement and sand 1:3 finished smooth with coloured cement including forming groove.	m	68.00		
106	Floor rendered with 1:3 cement and sand, normal cement floated surface with expansion joints filled with 1:2 bitumen sand.( Rate including for curing)	m <sup>2</sup>	38.00		
107	Floor rendered with 1:3 cement and sand approved coloured surface with expansion joints filled with 1:2 bitumen and sand. (Rate including for curing)	m <sup>2</sup>	165.00		
<b>Total Amount carried to Summary - FF</b>					
<b>PAINTING</b>					
108	Prepare and apply one coat of alkali resisting primer and two coats of emulsion paint to walls.	m <sup>2</sup>	400.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
109	Floor paint, after cleaning and preparing surface, two coats.	m <sup>2</sup>	174.00		
110	Apply one coat of primer and two coats of weathershield paint for new walls.	m <sup>2</sup>	315.00		
	<b>Total Amount carried to Summary - FF</b>				
	<b>EXTERNAL WORKS</b>				
	<b>EXCAVATION AND EARTHWORK</b>				
111	Earth excavation in leveling site inclusive of haulage up to 30m. (machine cutting only) in ordinary soil.	m <sup>3</sup>	100.00		
112	Excavation in foundation in normal earth up to a depth of 1.5m inclusive of backfilling, compacting and disposal of surplus earth.	m <sup>3</sup>	65.00		
	<b>CONCRETE WORKS</b>				
113	Mixing and placing in position concrete 1:3:6 (40mm) using a concrete mixer including fuel / operator / handling.	m <sup>3</sup>	21.00		
114	Flight of steps in 1:2 1/2 :5(25mm) concrete overall width 1.5m, waist 100mm on well compacted ground, waist below ground level, curb walls 150mm thick overall height 450mm in outer surface. Rate includes all formwork and 1:3 cement rendering finished smooth to exposed surfaces. size of steps 150 mm rise and 275mm tread.(Measured sloping length.)	m	3.00		
115	Landing flight of steps 1.5m wide overall base 100mm thick, curb walls 150mm thick and 150mm height externally, in 1:2 1/2:5(25mm) concrete, and 1:3.cement rendering finished smooth.	m	2.00		
	<b>MASONRY WORKS</b>				
116	R.R masonry in 1:5 cement and sand mortar in foundations.	m <sup>3</sup>	36.00		
117	R.R masonry in 1:5 cement and sand mortar in superstructure.	m <sup>3</sup>	88.00		
118	Provision of weep holes in retaining walls with 90mm dia. PVC down pipes including metal packing around inner mouth as directed, length of pipe up to 1050mm.	nr	100.00		
	<b>Total Amount carried to Summary - 1</b>				

**Bills of Quantities for Construction of 90'x25' Two Storied Class Room Building at West Ward Ho  
Tamil Vidyalayam, Nuwara eliya**

**Summary - GF**

1	Excavation and Earth work	
2	Concrete works up to DPC	
3	Concrete works DPC to 1st Floor slab	
4	Masonry works	
5	Metal works	
6	Carpentry and Joinery	
7	Electrical Installations	
8	Floor/Wall/Ceilling finishes	
9	Painting	
	<b>Total Amount carried to Summary - 1</b>	

**Summary - FF**

1	Concrete Works 2nd floor to roof level	
2	Masonry works	
3	Metal work	
4	Carpentry and Joinery	
5	Roof Covering/Roof Plumbing	
6	Electrical Installations	
7	Floor/Wall/Ceilling finishes	
8	Painting	
	<b>Total Amount carried to Summary - 1</b>	

Bills of Quantities for Construction of 90'x25' Two Storied Class Room Building at West Ward Ho Tamil Vidyalayam, Nuwara eliya		
Summary - 1		
SN	Description	Amount (Rs.)
1	Ground Floor ( <b>Total of Summary GF</b> )	
2	First Floor ( <b>Total of Summary FF</b> )	
3	External Works	
	<b>TOTAL CONSTRUCTION COST CARRIED TO GRAND SUMMARY</b>	



<b>1. Bills of Quantities for Construction of Type 12 Toilet Block at West Ward ho T.V, Nuwara eliya</b>					
<b>Item No</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate Rs.</b>	<b>Amount Rs.</b>
	<b>EXCAVATION AND EARTHWORK</b>				
1	Site clearing	Item	1.00		
2	Excavation in foundations in normal earth up to depth of 1.5m inclusive of backfilling, compacting and disposal of surplus earth.	m <sup>3</sup>	5.00		
3	Filling earth and compacting (as approved by Engineer) 150mm layers in large quantities. Rate includes for transport of 30 m.	m <sup>3</sup>	1.70		
	<b>CONCRETE WORKS</b>				
4	Mixing and placing in position concrete 1:3:6 (40mm) using a concrete mixer including fuel / operator / handling.	m <sup>3</sup>	0.40		
5	Mixing and placing in position concrete grade 20, nominal mix 1:2:4 ( 20mm) using a concrete mixer including fuel / operator / handling/vibrator.	m <sup>3</sup>	2.60		
6	Tor steel reinforcement bend to shape laid in position and tied with G.I. wire as directed.Including spaces & chairs.	kg	245.00		
7	Sawn timber formwork in class III timber for ground concrete work,at ground level plinth beams,lintols etc.	m <sup>2</sup>	24.00		
8	Floor concrete with 1:2 1/2:5(25mm) 75mm thick with expansion joints filled with 1:2 bitumen and sand rate including for the curing, compacting ground and laying polythene sheet under the concrete.	m <sup>2</sup>	3.00		
9	Floor concrete with 1:2 1/2:5(25mm) 75mm thick, 1:3 normal cement and sand rendering finished smooth with expansion joints filled with 1:2 bitumen and sand. Rate including for curing, compacting ground and laying polythene sheets under the concrete.	m <sup>2</sup>	4.50		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
10	Drain 225mm X 150mm(average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12.5mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	2.00		
11	Cement grill	m <sup>2</sup>	1.62		
	<b>MASONRY WORKS</b>				
12	Brick work in 1:5 cement sand mortar 225mm thick (Nominal)and above in foundations up to D.P.C .	m <sup>3</sup>	0.80		
13	Brick work in 1:8 cement sand mortar 225mm thick (Nominal)in super structure in ground floor.	m <sup>3</sup>	1.20		
14	Brick work in 1:5 cement sand mortar 112.5mm thick (Nominal) in ground floor.	m <sup>2</sup>	28.00		
	<b>METAL WORK</b>				
15	Aluminium door	P.sum			75,000.00
	<b>ROOF COVERING/ROOF PLUMBING</b>				
16	Fabricating and fixing Steel sections 2/62mm x 62mm x 6mm used in gable rafters purlins etc.complete with fixing, bolts, 2 coats of anticorrosive paint and providing cleats where necessary .(Concrete pad paid separately)	m	8.70		
17	Supplying & fixing C - purlin 100 mmx 50 mmx 12 mm, 2mm thick mild steel including prepare & apply 2 coats of anticorrosive paint, necessary nut & bolts 6mm thick cleat and welding works etc.	m	17.70		
18	Supplying & fixing 0.47mm thick colour Zn/Al. roofing sheets with self drilling screws (fasteners) on existing frame work (Frame work measured separately).	m <sup>2</sup>	18.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
19	Supplying & Fixing 0.47mm thick Zn / Al Valance board including Screws. Nominal girth 470mm .	m	12.00		
	<b>PLUMBING/SANITARY INSTALLATIONS</b>				
20	Supplying & fixing approved new closet squatting foot rest type (Orissa pan) with trap, supplied and fixed to working order including connection to sewer line.	nr	4.00		
21	Supplying and fixing 20mm(1/2") dia. approved plastic bib tap with 1 No.P.V.C faucet socket.	nr	10.00		
22	Supplying and fixing Ball valve ,brass,size 20mm dia.	nr	1.00		
23	Supplying and laying Pipes PVC type 600 with specials, size 40mm dia. in waste of wash basins.	m	4.00		
24	Supplying and laying Pipes PVC with specials, size 20mm dia. type 1000 rate includes for cutting trenches, testing and back filling. Depth of the trench not less than 450mm.	m	10.00		
25	Supplying and installing 1000 L capacity (confirming to SLS 1174) water tank made of polymer materials of approved quality on sand bed. Rate for only water tank. PVC pipes, valves, fittings measured separately.	nr	1.00		
26	Supplying and fixing Ball valve ,brass,size 20mm dia.	nr	1.00		
27	Supplying and laying Pipes pvc with specials, size 63mm dia. in waste water lines, vent pipes etc. (Type 400).	m	6.00		
	<b>FLOOR / WALL /CEILING FINISHES</b>				
28	Floor paving with approved pattern and colour ceramic floor tiles on 1:3 cement mortar, joints filled with tile grout, to match the colour of tiles and cleaning.	m <sup>2</sup>	5.40		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
29	Tiles glazed of approved pattern and colour with all specials fixed to walls including raking plaster and bedding in cement mortar 1:3, joints finished with tile grout to match colour of tiles and cleaning.	m <sup>2</sup>	21.00		
30	16mm thick 1:1:5 cement, lime and sand plastering to walls finished smooth with lime putty.	m <sup>2</sup>	16.00		
31	1:1:5 cement, lime and sand plaster reveals 35mm to 150mm wide finished smooth with lime putty.	m	36.00		
32	20mm thick damp proof course in 1:2 cement and sand trowelled smooth and applied two coats of hot tar, blinded with sand.	m <sup>2</sup>	5.40		
33	Plinth plaster 12mm thick in 1:3 cement and sand finished smooth with coloured cement floating.	m <sup>2</sup>	5.20		
	<b>PAINTING</b>				
34	After cleaning and preparing surface and applying two coat of floor paint.	m <sup>2</sup>	10.00		
35	Preparing and applying one coat of alkali resisting primer and two coats of emulsion paint to walls.	m <sup>2</sup>	16.00		
36	Applying one coat of primer and two coats of exterior paint for new walls.	m <sup>2</sup>	36.00		
	<b>DRAINAGE</b>				
37	Supplying and fixing bend PVC 110 for drainage.	nr	10.00		
38	Construction of manhole 600mm x 600mm x 600mm internally complete with cement concrete 1:2:4(25mm) in 75mm thick base, 225mm tk.brick walls on top of base slab and channelling & bending, 1:3 cement and sand rendered in internal surfaces, 75mm thick RC. cover slab r/f with 10mm tor steel @ 150mm c/c. both ways, complete with lifting handles.	nr	2.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
39	Construction of 1.2m diameter internal fully built type soakage pit, built up 225mm thick brick work in 1:8 cement ,sand mortar invert depth from ground level 3.0m,on 225mm x 150mm ring beam 1:2:4(20mm) concrete mix, including 1:3 cement,sand plaster finished smooth with neat gray cement (0.9m invert depth only) & 100mm high 1:2:4(20mm ) concrete ring pad above ground level, complete with 75mm thick RCC cover slab with lifting handle.	nr	1.00		
40	600mm wide ramp & drain	m	19.00		
<b>Total Amount carried to Summary - 2</b>					

## 2. Bills of Quantities for Construction of Single Toilet at West Ward ho T.V, Nuwara eliya

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>EXCAVATION AND EARTHWORK</b>				
1	Site clearing	<b>P.sum</b>			<b>1,000.00</b>
2	Excavation in foundations in normal earth up to depth of 1.5m inclusive of backfilling, compacting and disposal of surplus earth.	m <sup>3</sup>	2.00		
3	Filling earth and compacting (as approved by Engineer) 150mm layers under floors. Rate includes for transport of 30 m.	m <sup>3</sup>	0.35		
	<b>CONCRETE WORKS</b>				
4	Mixing and placing in position concrete 1:3:6 (40mm) using a concrete mixer including fuel / operator / handling.	m <sup>3</sup>	0.20		
5	Mixing and placing in position concrete grade 20, nominal mix 1:2:4 ( 20mm) using a concrete mixer including fuel / operator / handling/vibrator.	m <sup>3</sup>	0.50		
6	Sawn timber form work in class III timber for underside of ground floor slabs.	m <sup>2</sup>	5.00		
7	Tor steel reinforcement bend to shape laid in position and tied with G.I. wire as directed.Including spaces & chairs.	kg	40.00		
8	Floor concrete with 1:2 1/2:5(25mm) 62mm thick with expansion joints filled with 1:2 bitumen and sand rate including for the curing, compacting ground and laying polythene sheet under the concrete.	m <sup>2</sup>	1.10		
9	Floor concrete with 1:2 1/2:5(25mm) 75mm thick, 1:3 normal cement and sand rendering finished smooth with expansion joints filled with 1:2 bitumen and sand. Rate including for curing, compacting ground and laying polythene sheets under the concrete.	m <sup>2</sup>	0.75		
	<b>MASONRY WORKS</b>				
10	R.R masonry in 1:5 cement and sand mortar in foundations.	m <sup>3</sup>	2.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
11	Brick work in 1:8 cement sand mortar 225mm thick (Nominal) in super structure in ground floor.	m <sup>3</sup>	0.40		
12	Brick work in 1:5 cement sand mortar 112.5mm thick (Nominal) in ground floor.	m <sup>2</sup>	7.50		
	<b>PLUMBING/SANITARY INSTALLATIONS</b>				
13	Supplying & fixing approved closet squatting foot rest type (Orissa pan) with trap, supplied and fixed to working order, including connection to sewer line. Rate includes for breaking floor and concreting, cement rendering in damaged areas.	nr	1.00		
14	Supplying and fixing 20mm(1/2") dia. approved plastic bib tap with 1 No.P.V.C faucet socket.	nr	1.00		
15	Supplying and fixing Ball cock plastic size 20mm dia.	nr	4.00		
16	Supplying and installing 500 L capacity (confirming to SLS 1174) water tank made of polymer materials of approved quality on sand bed. Rate for only water tank. PVC pipes, valves, fittings measured separately.	nr	1.00		
17	Supplying and laying Pipes PVC with specials, size 20mm dia. type 1000 rate includes for cutting trenches, testing and back filling. Depth of the trench not less than 450mm.	m	30.00		
	<b>FLOOR / WALL /CEILLING FINISHES</b>				
18	20mm thick damp proof course in 1:2 cement and sand trowelled smooth and applied two coats of hot tar, blinded with sand.	m <sup>2</sup>	2.00		
19	Cement and sand 1:3 plaster finished smooth with lime putty on exposed faces of concrete surfaces and soffits, 10mm thick.	m <sup>2</sup>	5.00		
20	16mm thick cement and sand 1:5 plaster finished semi-rough with wooden float.	m <sup>2</sup>	12.50		
21	16mm thick 1:1:5 cement, lime and sand plastering to walls finished smooth with lime putty.	m <sup>2</sup>	5.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
22	1:1:5 cement, lime and sand plaster reveals 35mm to 150mm wide finished smooth with lime putty.	m	8.00		
23	Tiles glazed of approved pattern and colour with all specials fixed to walls including raking plaster and bedding in cement mortar 1:3, joints finished with tile grout to match colour of tiles and cleaning.	m <sup>2</sup>	5.00		
24	Plinth plaster 12mm thick in 1:3 cement and sand finished smooth with gray cement floating.	m <sup>2</sup>	2.00		
25	Floor paved with approved pattern and colour floor tiles (homogeneous /porcelain) with tile mortar on 1:3 cement mortar, joints filled with tile grout to match the colour of tiles and cleaning.	m <sup>2</sup>	1.20		
	<b>DRAINAGE</b>				
26	Supplying and fixing, Cleaning eye bend pvc (89D) 110mm.	nr	1.00		
27	Supplying and laying type 400 pvc 110mm for sewer line in medium soil, joints embedded in 1:3:6(40mm) concrete including necessary excavation, back filling, and compaction, invert depth up to 600mm.	m	4.00		
28	Construction of manhole 600mm x 600mm x 600mm internally complete with cement concrete 1:2:4(25mm) in 75mm thick base, 225mm tk.brick walls on top of base slab and channelling & bending, 1:3 cement and sand rendered in internal surfaces, 75mm thick RC. cover slab r/f with 10mm tor steel @ 150mm c/c. both ways, complete with lifting handles.	nr	1.00		



Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
29	Construction of 1.2m diameter internal semi built type soakage pit, built up 225mm thick brick work in 1:8 cement and sand mortar invert depth from ground level 0.90m, on 225mm x 150mm ring beam 1:2:4(20mm) concrete mix, including 1:3 cement and sand plaster finished smooth with neat gray cement & 100mm high 1:2:4(20mm ) concrete ring pad above ground level, complete with 75mm thick RCC cover slab with lifting handle.	nr	1.00		
30	Fabricating & fixing door 28mm thick, battened sash with 95mm x 45mm (Nominal) frame, in cl.1 timber, oxidized heavy duty furniture 100mm x 62mm iron butt hinges with in side and out side 100mm barrel bolts , draw ring, painted sashes and frame, two of coats enamel paint with primer under coats.(3Nos hinges)	m <sup>2</sup>	1.50		
<b>Total Amount carried to Summary - 2</b>					

**3. Bills of Quantities for Construction of Chain Link Fence and Gate at West Ward Ho Tamil  
Vidyalaya, Nuwara eliya**

<b>Item No</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate Rs.</b>	<b>Amount Rs.</b>
1	Constructing chain link mesh fence 2.0m high (Gauge 12) with 2" dia. medium quality GI pipe at 2.4m c/c up rights and one after the other 3/4" dia. medium quality GI pipe up right at 2.4m c/c and 1" dia. GI pipe medium quality at top and bottom runners, including excavation, foundation concrete work 1:2:4(20mm), welding work, painting of two coats of anticorrosive and finished coat of enamel etc.(Chain link fence open area 2" x 2")	m	280.00		
2	Barbed wire fence, 7strands 14 BWG with 4 points at 75mm crs and R.C.C posts 1:1 1/2:3 (20mm) concrete 1.70m high and section 150mm x 150mm at bottom and 100mm x 100mm at top, at 2.4m c/c , r/f with 4 nos 6mm dia. MS rods with 14BWG wire stirrups at 150mm crs. Rate to include for excavation,1:3:6(40mm) cement concrete foundations to all posts and providing straightening bolts with washers and nuts.	m	90.00		
3	Constructing of 3.0 m wide and 1.5 m high G.I pipes Gate & 225mmx225mm Reinforced concrete post including all accessories	nr	2.00		
	<b>Total Amount carried to Summary - 2</b>				

Bills of Quantities for Construction of Toilet Block, Single Toilets and Chain Link Fence at West Ward Ho Tamil Vidyalyaya, Nuwara eliya		
Summary - 2		
SN	Description	Amount (Rs.)
1	Construction of Type 12 Toilet Block	
2	Construction of Single Toilet (02 nos)	
3	Constrution of Chain Link Fence and Gate	
	<b>TOTAL CONSTRUCTION COST CARRIED TO GRAND SUMMARY</b>	

**1. Bills of Quantities for Repair works of 60'x20' Class Room Building at West Ward Ho Tamil  
Vidyalayam, Nuwara eliya**

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>DEMOLITION</b>				
1	Demolishing & clearing debris away of floor paving brick, concrete or rubble inclusive of rendering.( Ramp& drains)	m <sup>2</sup>	158.00		
	<b>CONCRETE WORKS</b>				
2	Floor concrete with 1:2 1/2:5(25mm) 75mm thick, 1:3 normal cement and sand rendering finished smooth with expansion joints filled with 1:2 bitumen and sand. Rate including for curing, compacting ground and laying polythene sheets under the concrete.	m <sup>2</sup>	112.00		
3	Drain 225mm x 450mm(average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12.5mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	46.00		
4	Drain 225mm X 150mm (average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	6.00		
	<b>CARPENTRY AND JOINERY</b>				
5	Fabricating & fixing door 28mm thick flush panelled sash single hung with 95mm x 70mm(Nominal) frame, in treated kempas timber, oxidized heavy duty furniture, original mortise door lock approved by engineer,100mm barrel bolts 2 nos etc. rate included primer under coat & two coats of enamel paint .(3Nos of hinges)	m <sup>2</sup>	6.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>METAL WORK</b>				
6	Fabricating & fixing Special security grill fixed for windows complete with perimeter & either side of middle opening frame in 16mm x 5mm M.S flat & 6mm dia.MS bars at 100mm c/c diagonally ,properly welded & fixed to walls with rawl plugs, screws inclusive of two coats of enamel paint on two coats of anticorrosive paint	m <sup>2</sup>	25.00		
	<b>ROOF COVERING / ROOF PLUMBING</b>				
7	Supplying and fixing pvc gutters square type 150mm with PVC brackets not exceeding 225mm fixed to valance board using 20mm nails, rate includes for specials.	m	55.60		
8	Supplying and fixing down pipes pvc 90mm dia. with brackets not exceeding 1.2m well secured to walls with plastic rawl plugs. (Rate includes for specials).	m	30.00		
	<b>ELECTRICAL INSTALLATIONS</b>				
9	Pendent type lamp point wiring - to be carried out with 2 x 1.0 mm2 PVC insulated PVC sheathed copper cables wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	12.00		
10	Watertight lamp point wiring - to be carried out with 2 x 1.0 mm2 PVC insulated PVC sheathed copper cables wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	2.00		
11	5 A socket outlet - point wiring to be carried out with 2 x 1.0 mm2 PVC insulated PVC sheathed copper cables and 2.5 mm2 earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	4.00		Deleted

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
12	13 A socket outlet / grouped socket outlets - point wiring to be carried out with 2 x 2.5 mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5 mm <sup>2</sup> earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	6.00		
13	15 A socket outlet - point wiring to be carried out with 2 x 2.5 mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5 mm <sup>2</sup> earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	1.00		
14	Supply and installation of 4 feet Cu earth electrode with 16mm diameter and other accessories in working order.	nr	2.00		
15	Supply and installation of 6 way single phase distribution board including 32 A 2P Isolator , 40A 2P RCD (30mA) , 02 nos. single pole M.C.B s.	nr	1.00		
16	Supply and installation of 5 A socket outlet in working order .	nr	4.00		Deleted
17	Supply and installation of 13 A socket outlet in working order .	nr	6.00		
18	Supply and installation of 15 A socket outlet in working order.	nr	1.00		
	<b>PAINTING</b>				
19	After cleaning and preparing surface and applying two coats of emulsion paint.	m <sup>2</sup>	200.00		
20	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m <sup>2</sup>	120.00		
	<b>Total Amount carried to Summary - 3</b>				

**2. Bills of Quantities for Repair works of 80'x20' Class Room Building at West Ward Ho Tamil Vidyalayam,  
Nuwara eliya**

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>DEMOLITION</b>				
1	Demolishing & clearing debris away of floor paving brick, concrete or rubble inclusive of rendering..	m <sup>2</sup>	197.50		
2	Removing & stacking door or window size up to 4.0m2 from existing walls.	nr	1.00		
	<b>CONCRETE WORKS</b>				
3	Floor concrete with 1:2 1/2:5(25mm) 75mm thick, 1:3 normal cement and sand rendering finished smooth with expansion joints filled with 1:2 bitumen and sand. Rate including for curing, compacting ground and laying polythene sheets under the concrete.	m <sup>2</sup>	136.50		
4	Drain 225mm x 450mm(average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12.5mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	61.00		
5	Drain 225mm X 150mm (average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	2.00		
	<b>CARPENTRY AND JOINERY</b>				
6	Fabricating & fixing door 28mm thick flush panelled sash single hung with 95mm x 70mm(Nominal) frame, in treated kempas timber, oxidized heavy duty furniture, original mortise door lock approved by engineer,100mm barrel bolts 2 nos etc. rate included primer under coat & two coats of enamel paint .(3Nos of hinges)	m <sup>2</sup>	8.40		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>METAL WORK</b>				
7	Fabricating & fixing Special security grill fixed for windows complete with perimeter & either side of middle opening frame in 16mm x 5mm M.S flat & 6mm dia.MS bars at 100mm c/c diagonally ,properly welded & fixed to walls with rawl plugs, screws inclusive of two coats of enamel paint on two coats of anticorrosive paint.	m <sup>2</sup>	33.60		
8	Replacing glass panes plain / pinhead 4.6mm in complete.	m <sup>2</sup>	1.10		
	<b>FLOOR / WALL / CEILING FINISHES</b>				
9	100mm high skirting in cement and sand 1:3 projected or flush to walls finished smooth with gray cement floating including forming groove.	m	60.00		
10	Cement, lime and sand plaster, breaking the damaged areas and replastering with 20mm thick 1:1:5 cement, lime and sand, finished smooth with lime putty.	m <sup>2</sup>	10.00		
11	16mm thick cement, lime and sand 1:1:5 plaster finished semi-rough with wooden float.	m <sup>2</sup>	10.00		
	<b>ROOF COVERING/ROOF PLUMBING</b>				
12	Supplying and fixing valance boards beaded 225mm x 20mm thick Ginisapu, including one coat of primer and two coats of enamel paint (Flat iron bracket measured separately).	m	70.00		
13	Supplying and fixing pvc gutters square type 150mm with PVC brackets not exceeding 225mm fixed to valance board using 20mm nails, rate includes for specials.	m	50.00		
14	Supplying and fixing down pipes pvc 90mm dia. with brackets not exceeding 1.2m well secured to walls with plastic rawl plugs. (Rate includes for specials).	m	45.00		



Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>ELECTRICAL INSTALLATIONS</b>				
15	Pendent type lamp point wiring - to be carried out with 2 x 1.0 mm <sup>2</sup> PVC insulated PVC sheathed copper cables wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order .	nr	16.00		
16	5 A socket outlet - point wiring to be carried out with 2 x 1.0 mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5 mm <sup>2</sup> earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	4.00		Deleted
17	13 A socket outlet / grouped socket outlets - point wiring to be carried out with 2 x 2.5 mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5 mm <sup>2</sup> earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	6.00		
18	15 A socket outlet - point wiring to be carried out with 2 x 2.5 mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5 mm <sup>2</sup> earth cable wired with PVC casing on wall and on soffit of the slabs to be supplied and installed in working order.	nr	1.00		
19	Supply and installation of 6 way single phase distribution board including 32 A 2P Isolator , 40A 2P RCD (30mA) , 02 nos. single pole M.C.B s.	nr	1.00		
20	Supply and installation of 4 feet Cu earth electrode with 16mm diameter and other accessories in working order.	nr	1.00		
21	Supply and installation of 4 feet Cu earth electrode with 16mm diameter and other accessories in working order.	nr	1.00		
22	Supply and installation of 5 A socket outlet in working order .	nr	4.00		Deleted
23	Supply and installation of 13 A socket outlet in working order .	nr	6.00		
24	Supply and installation of 15 A socket outlet in working order.	nr	1.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>PAINTING</b>				
25	After cleaning and preparing surface and applying two coats of emulsion paint.	m <sup>2</sup>	170.00		
26	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m <sup>2</sup>	150.00		
27	After cleaning and preparing on external surfaces and applying two coat of exterior paint.	m <sup>2</sup>	150.00		
	<b>Total Amount carried to Summary - 3</b>				

**3. Bills of Quantities for Repair works of Teacher's Quarters at West Ward Ho Tamil Vidyalayam,  
Nuwara eliya**

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>DEMOLITION</b>				
1	Demolishing & clearing debris away of floor paving brick, concrete or rubble inclusive of rendering..	m <sup>2</sup>	38.50		
	<b>CONCRETE WORKS</b>				
2	Floor concrete with 1:2 1/2:5(25mm) 75mm thick, 1:3 normal cement and sand rendering finished smooth with expansion joints filled with 1:2 bitumen and sand. Rate including for curing, compacting ground and laying polythene sheets under the concrete.	m <sup>2</sup>	7.50		
3	Drain 225mm x 450mm(average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12.5mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	30.00		
4	Drain 225mm X 150mm (average depth) concrete 1:2 1/2:5 (25mm) 75mm thick, provide expansion joints at 3000mm crs 12mm thick , 1:3 cement, sand rendering finished smooth, including necessary excavation, form work, laying polythene membrane under concrete and laid to required slope.	m	6.00		
	<b>METAL WORK</b>				
5	Fabricating & fixing door 28mm thick flush panelled sash single hung with 95mm x 70mm(Nominal) frame, in treated kempas timber, oxidized heavy duty furniture, original mortise door lock approved by engineer,100mm barrel bolts 2 nos etc. rate included primer under coat & two coats of enamel paint .(3Nos of hinges)	m <sup>2</sup>	1.30		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>ROOF COVERING / ROOF PLUMBING</b>				
6	Supplying and fixing pvc gutters square type 150mm with PVC brackets not exceeding 225mm fixed to valance board using 20mm nails, rate includes for specials.	m	19.00		
7	Supplying and fixing valance boards beaded 225mm x 20mm thick Ginisapu, including one coat of primer and two coats of enamel paint (Flat iron bracket measured separately) .	m	35.00		
8	Supplying and fixing down pipes pvc 90mm dia. with brackets not exceeding 1.2m well secured to walls with plastic rawl plugs. (Rate includes for specials).	m	16.00		
9	8' / 10' x 8" I Panel PVC Sheets Finishing Cost of same Height iPenel Flat Ceiling Structures with 0.35 mm medium weight 3/4" x1.5" GI C Channels (2 feet Gap is maintain between two channels) by fixing on well with concrete Nails (If necessary wall plugs be used). Total finishing cost with all the labor, all the materials and with transportation	m <sup>2</sup>	50.00		
	<b>PLUMBING/SANITARY INSTALLATIONS</b>				
10	Supplying & fixing approved sink stainless steel with single drain board with chromium plated wastewater chain, stay & waste plug (tap, brackets, water , waste water connection & brick work measured separately).	nr	1.00		
11	Supplying & fixing approved Closet ,with working order including 20mm(1/2")dia. Brass chromium plated angle valve and flexible hose.	nr	1.00		
12	Fixing wash basin supplied with 20mm(1/2") dia. Brass chromium plated pillar tap, waste plug, chain and stay.(Water connection and waste water connection measured separately).	nr	2.00		
13	Supplying & fixing 20mm(1/2") dia. bidet spray approved best quality.(chromium plated)	nr	1.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
14	Supplying and laying Pipes PVC with specials, size 20mm dia. type 1000 rate includes for cutting trenches, testing and back filling. Depth of the trench not less than 450mm.	m	30.00		
15	Supplying and laying Pipes PVC with specials, size 25mm dia. type 1000 rate includes for cutting trenches, testing and backfilling. Depth of the trench not less than 450mm.	m	10.00		
16	Supplying and laying Pipes PVC type 600 with specials, size 40mm dia. in waste of wash basins.	m <sup>2</sup>	5.00		
17	Supplying & fixing 20mm(1/2" dia.),150mm approved chromium plated shower rose.	nr	2.00		
18	Supplying & fixing mirror for bathroom 450mm x 600mm size approved quality with screws, plugs etc.	nr	2.00		
19	Supplying and fixing 20mm(1/2") dia. approved plastic bib tap with 1 No.P.V.C	nr	2.00		
	<b>FLOOR / WALL /CEILING FINISHES</b>				
20	Tiles glazed of approved pattern and colour with all specials fixed to walls including raking plaster and bedding in cement mortar 1:3, joints finished with tile grout to match colour of tiles and cleaning.	m <sup>2</sup>	6.10		
21	Floor paved with approved pattern and colour floor tiles (homogeneous /porcelain) with tile mortar on 1:3 cement mortar, joints filled with tile grout to match the colour of tiles and cleaning.	m <sup>2</sup>	2.50		
	<b>PAINTING</b>				
22	After cleaning and preparing surface and applying two coats of emulsion paint.	m <sup>2</sup>	155.00		
23	After sand papering and cleaning and applying one coat of polyurethane varnish for old wooden surfaces.	m <sup>2</sup>	120.00		
24	After cleaning and preparing surface and applying one coat of enamel paint.	m <sup>2</sup>	18.00		

Item No	Description	Unit	Qty	Rate Rs.	Amount Rs.
	<b>DRAINAGE</b>				
25	Supplying and fixing gully PVC 150mm including concreting and supplying necessary grating.	nr	2.00		
26	Construction of 1.2m diameter internal semi built type soakage pit, built up 225mm thick brick work in 1:8 cement and sand mortar invert depth from ground level 0.90m, on 225mm x 150mm ring beam 1:2:4(20mm) concrete mix, including 1:3 cement and sand plaster finished smooth with neat gray cement & 100mm high 1:2:4(20mm ) concrete ring pad above ground level, complete with 75mm thick RCC cover slab with lifting handle	nr	1.00		
27	Construction of manhole 600mm x 600mm x 600mm internally complete with cement concrete 1:2:4(25mm) in 75mm thick base, 225mm tk.brick walls on top of base slab and channelling & bending, 1:3 cement and sand rendered in internal surfaces, 75mm thick RC. cover slab r/f with 10mm tor steel @ 150mm c/c. both ways, complete with lifting handles.	nr	1.00		
	<b>Total Amount carried to Summary - 3</b>				

**Bills of Quantities for Repair works of 60'x20', 80'x20' Class Room building and Teacher's Quarters at  
West Ward Ho Tamil Vidyalaya, Nuwara eliya**

**Summary - 3**

<b>SN</b>	<b>Description</b>	<b>Amount (Rs.)</b>
1	Repairs of 60'x20' Class Room Building	
2	Repairs of 80'x20' Class Room Building	
3	Repairs of Teacher's Quarters	
	<b>TOTAL CONSTRUCTION COST CARRIED TO GRAND SUMMARY</b>	

Bills of Quantities for Construction of 90'x25' Two Storied Class Room Building, Construction of Toilet Block, Single Toilets and Chain Link Fence, Repair works of 60'x20', 80'x20' Class Room building and Teacher's Quarters at West Ward Ho Tamil Vidyalayam, Nuwara eliya		
Grand Summary		
SN	Description	Amount (Rs.)
1	Preliminaries	
1	Construction of 90'x25' Two Storied Class Room Building ( <b>Total of Summary - 1</b> )	
2	Construction of Toilet Block, Single Toilets and Chain Link Fence ( <b>Total of Summary - 2</b> )	
3	Repair works of 60'x20', 80'x20' Class Room building and Teacher's Quarters ( <b>Total of Summary - 3</b> )	
	<b>TOTAL CONSTRUCTION COST</b>	
(a)	Sub Total I	
(b)	Less: Provisional Sum	<b>254,500.00</b>
(c)	Sub Total II (a-b)	
(d)	Less: Discount if any (.....%)	
(e)	Sub Total III (c-d)	
(f)	Add : Provisional Sum (b)	<b>254,500.00</b>
(g)	<b>TOTAL BID SUM WITHOUT TAXES (e+f) (CARRIED TO THE FORM OF BID)</b>	

Total Bid Sum to be taken in to Form of Bid in words Rupees: .....

..... only.

Amount of V.A.T. (Prevailing VAT) for the Total Bid Sum :- Rs. ....

Bidder's VAT Registration No: .....



.....  
Signature of Bidder

.....  
Stamp

Name and Address of Bidder:

.....

.....

.....

Contact Number of Bidder

.....

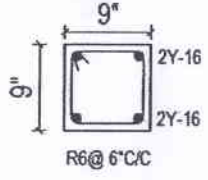
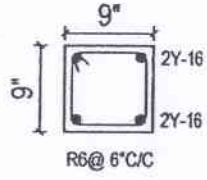
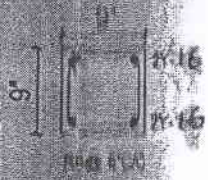
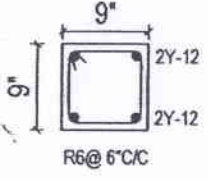
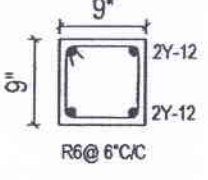
Fax Number/ E-mail Address of Bidder

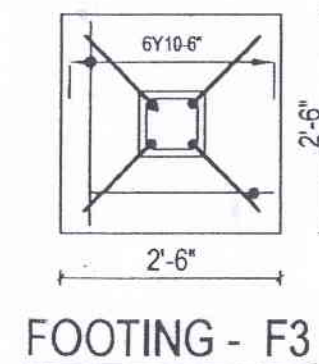
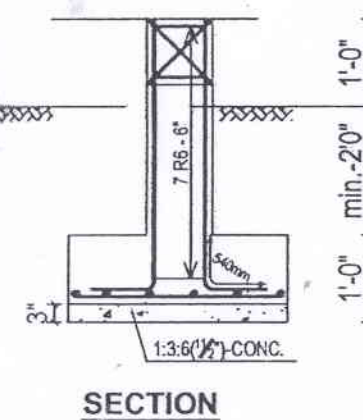
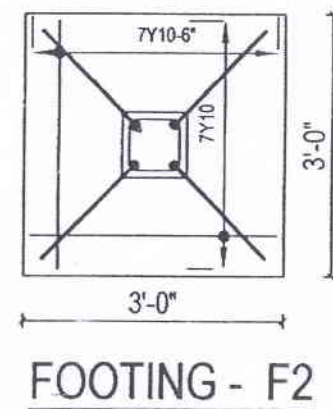
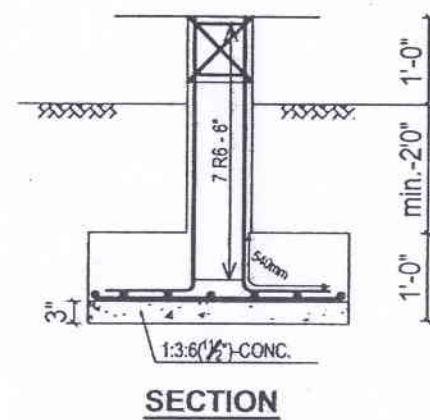
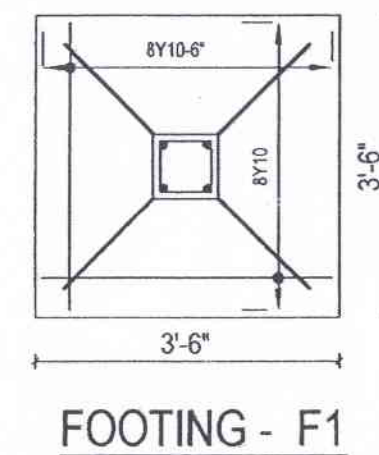
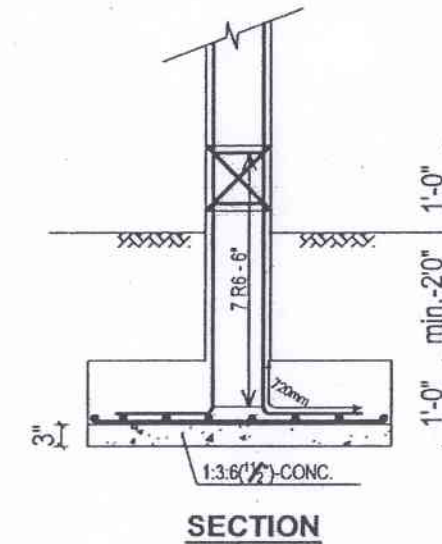
.....

**West ward ho, T.V., Nuwara Eliya**

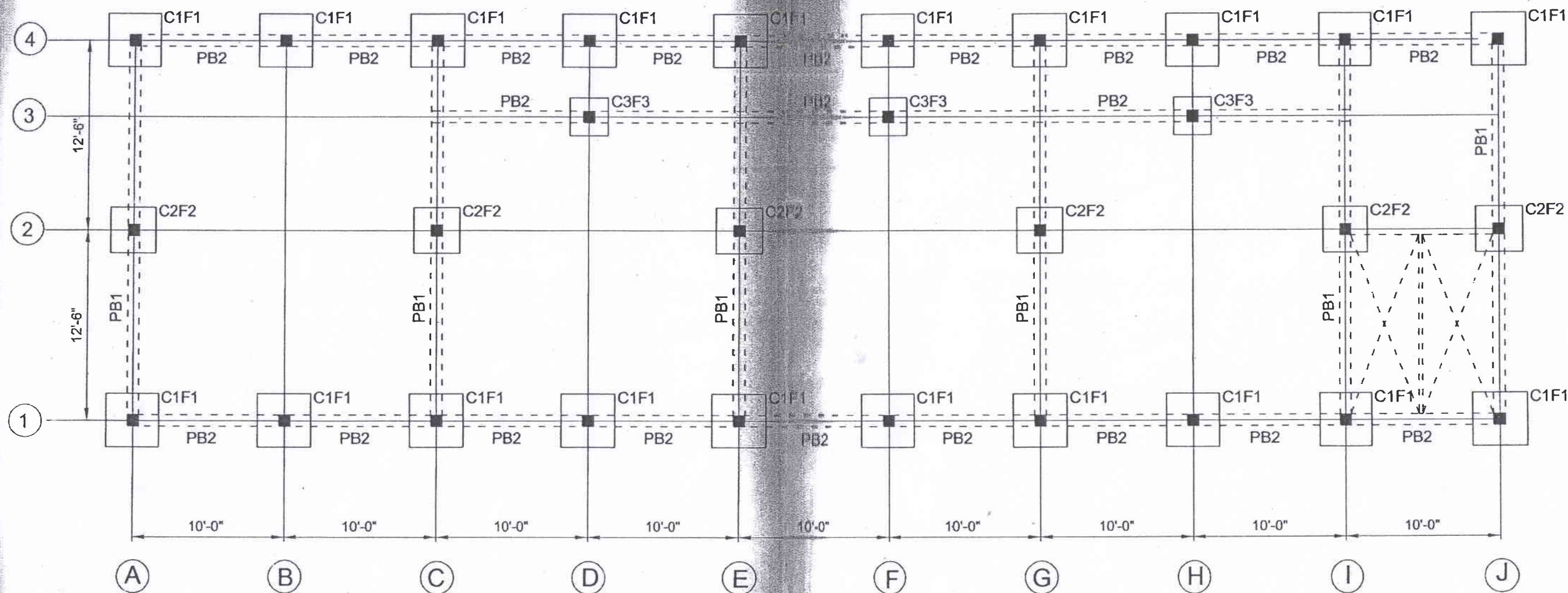
***STRUCTURAL DRAWINGS***  
***PROPOSED 90'X25'***  
***TWO STORIED BUILDING***



COLUMN	FOUNDATION LEVEL TO GROUND FLOOR	GROUND FLOOR TO 1 <sup>st</sup> FLOOR	1 <sup>st</sup> FLOOR TO ROOF
C1			
C2			
C3			





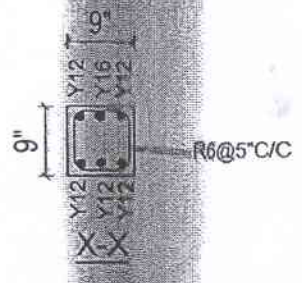
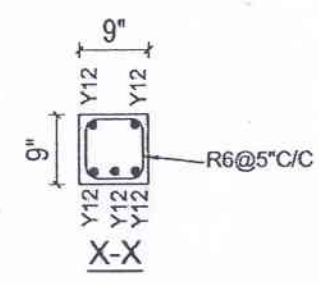
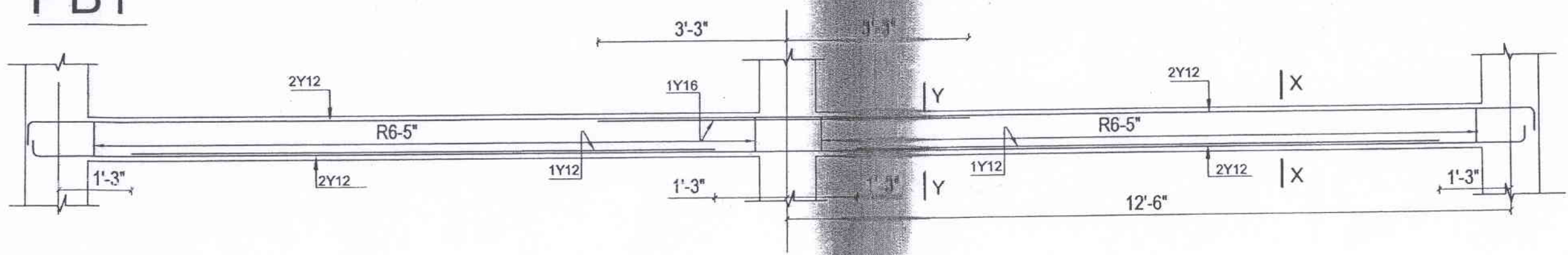


LAYOUT PLAN OF PLINTH BEAM ( 90'x25' )  
 (TWO STORED)

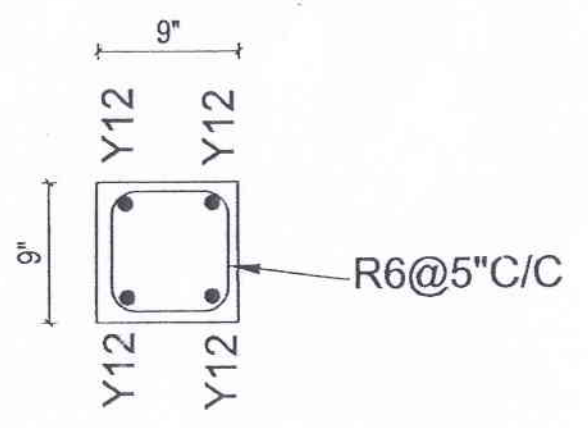


PLINTH BEAM ( 90'X25'/70'X25' ) two storied .

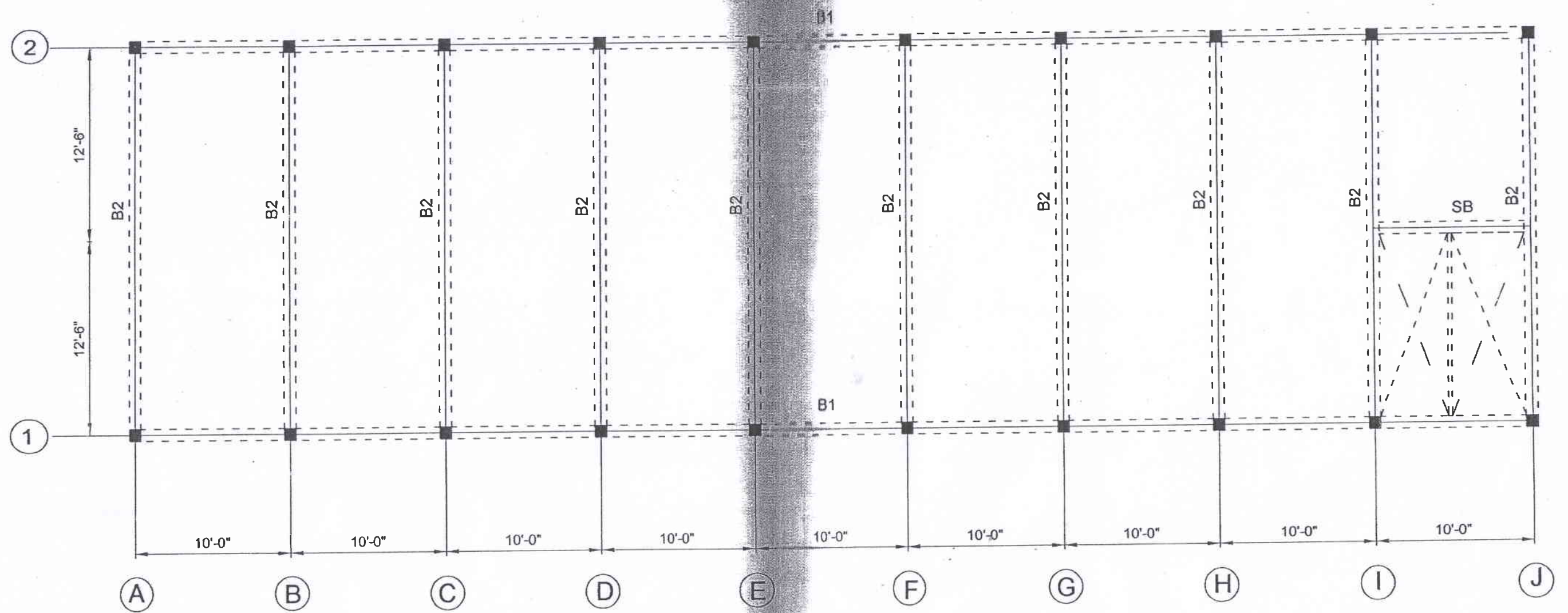
PB1



PB2





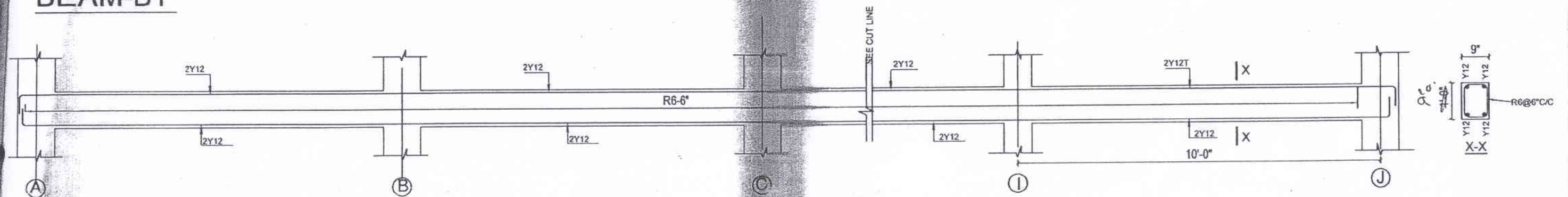


LAYOUT PLAN OF BEAMS ( 90'x25' )

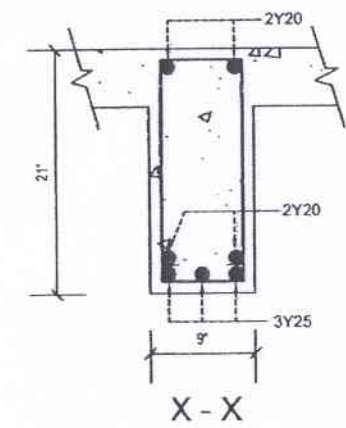
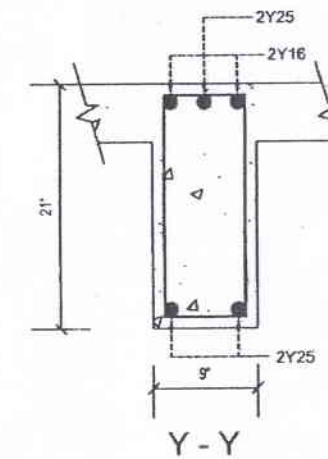
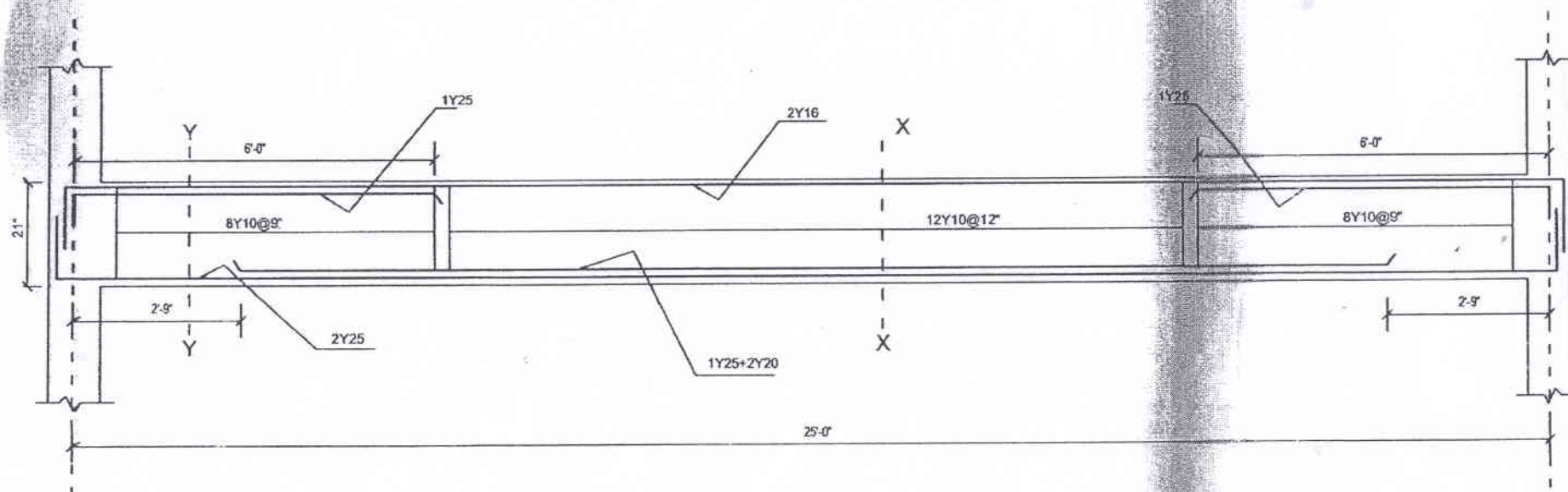
(TWO STORED)

BEAM (90'X25'/70'X25') two storied.

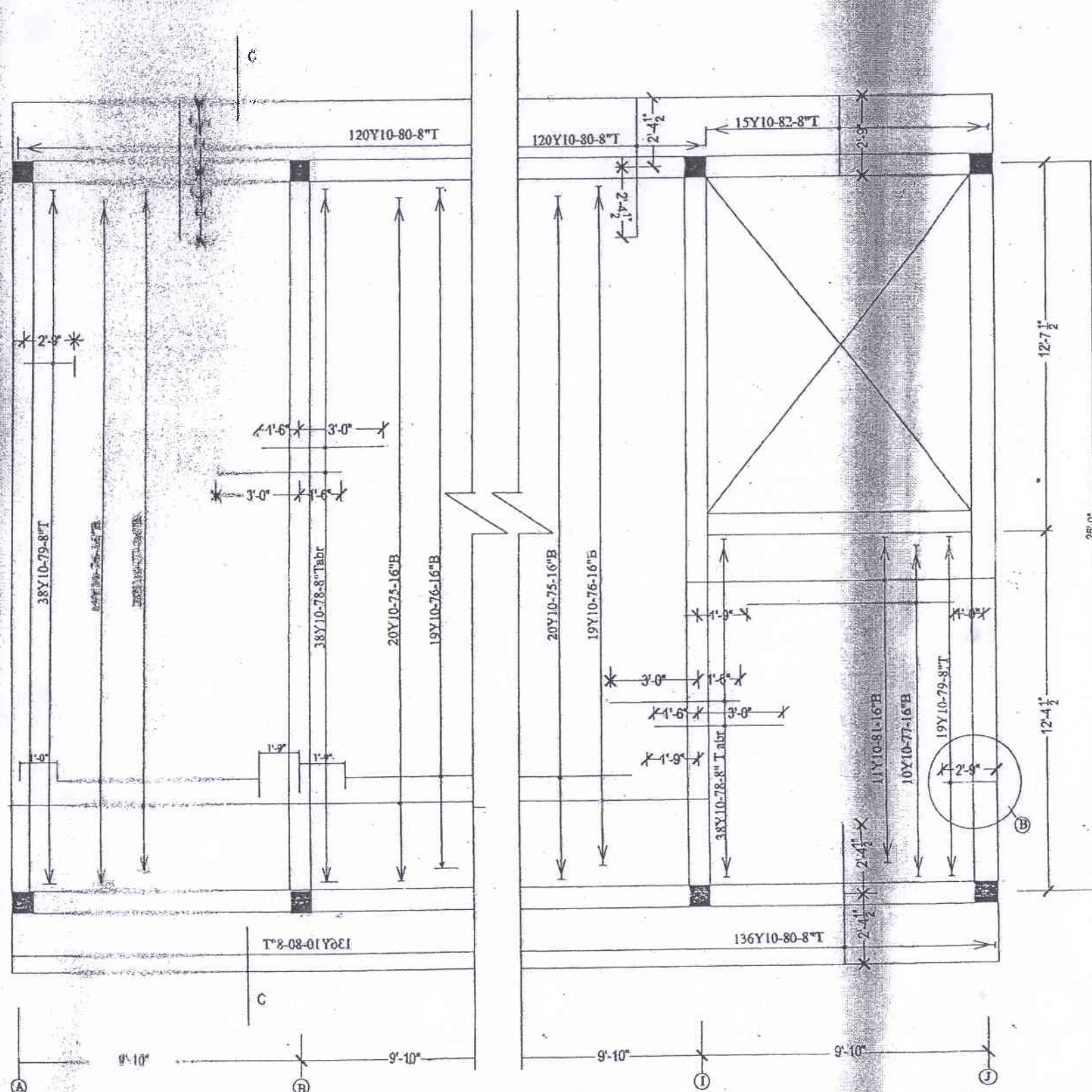
BEAM-B1



BEAM-B2



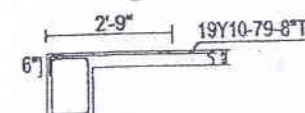




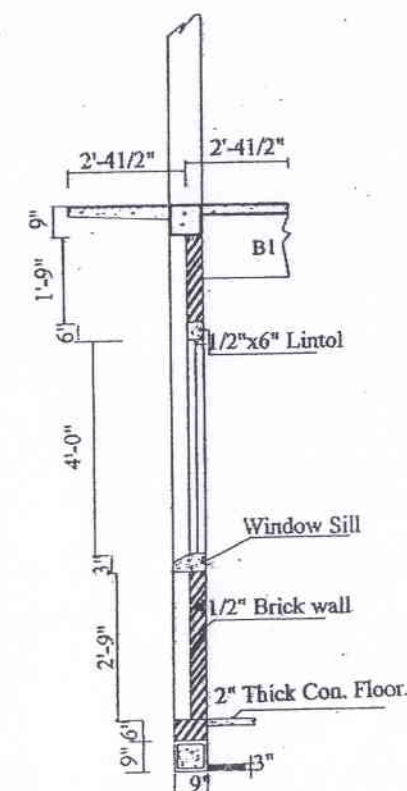
R/F DETAIL OF SLAB

SLAB THICKNESS - 4 1/2"

DISTRIBUTION BARS - R6-6"C/C



DETAIL AT -B



SECTION C-C  
DETAIL PLAN OF SUNSHADE &  
WINDOW SILL

90x25 two  
TYPE PLAN OF 10'x25' THREE STORIED BUILDING

DEPARTMENT OF ENGINEERING SERVICES,  
(EDUCATION BUILDINGS)

SCALE -  
8 Feet to an Inch

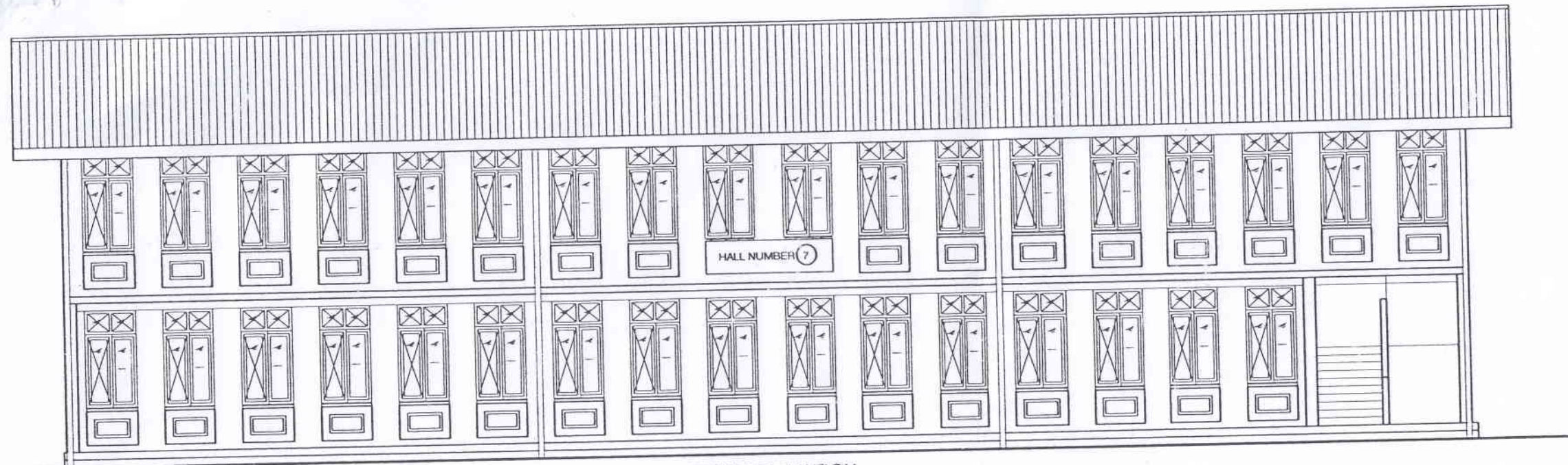
DRAWING NO - CPC/CS/11/07/01/2012/PLAN-1.5

DRAWN BY - W.A.P.DAYANI (DRAUGHTSMAN-SPL. GRADE)

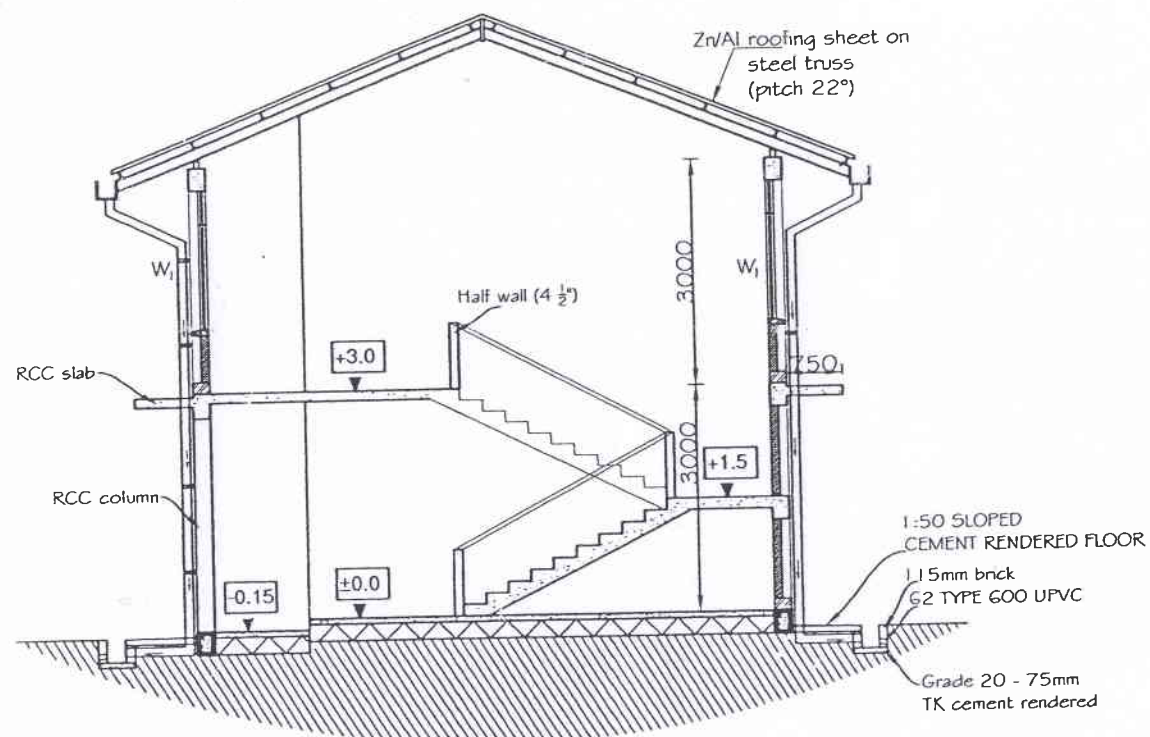
CHECKED BY - H.H.P.DUMBOKOLA (TECHNICAL OFFICER-SPECIAL GRADE)

Eng. H. W. S. P. Jayawardhane  
Deputy Director (School Buildings)  
Engineering Services Department  
230/3, S.W.B.D. Bandaranayaka Mawatha  
Kandy  
Eng. H. W. S. P. JAYAWARDANE  
DEPUTY DIRECTOR (EDUCATION BUILDINGS)

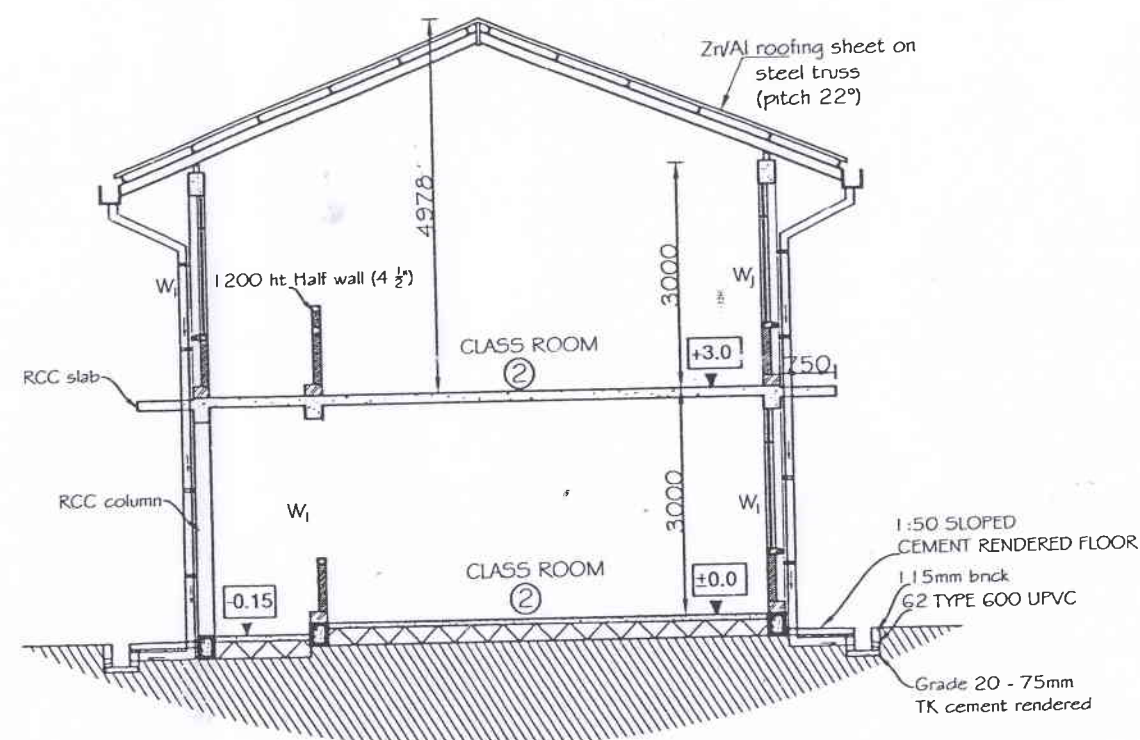




FRONT ELEVATION



SECTION X-X



SECTION Y-Y

SCHEDULE OF DOORS & WINDOWS

TYPE	DESCRIPTION	SIZE	CILL HT	NOS
D <sub>1</sub>	TIMBER PANEL DOOR	970 x 2100	±00	1
W <sub>G</sub>	TIMBER WICKET GATE	970 x 1200	±00	7
W <sub>1</sub>	ALUMINIUM / UPVC SLIDING WINDOW	970 x 1850	+850	68

1. CORNER STAIRCASE
2. SUITABLE FOR COLD WEATHER CONDITION
3. WITH GROUND FLOOR PASSAGE
4. UPPER FLOOR LAGER CLASS ROOM
5. CAN BE CONVERT TO A HALL

REV.	DATE	SIG.	DESCRIPTION

CLIENT:  
MINISTRY OF EDUCATION

CONSULTANT:  
DEPARTMENT OF ENGINEERING SERVICES,  
CENTRAL PROVINCIAL COUNCIL.

90' x 25' TWO STORIED BUILDING  
FOR SCHOOLS ( COLD WEATHER )  
07

DRAWING TITLE:  
GROUND FLOOR ,FIRST FLOOR

DRAWING NO: CPC/CS/11/04/2016- /TSC/COLD/CS-07

SCALE : 1:100@A3

DESIGNED & CHECKED BY:  
Eng. W.M.A.WICKRAMASINGHE

DRAWN BY: AWANTHI /NILUSHA

DATE: 19.09.2016

RECOMMENDED BY:

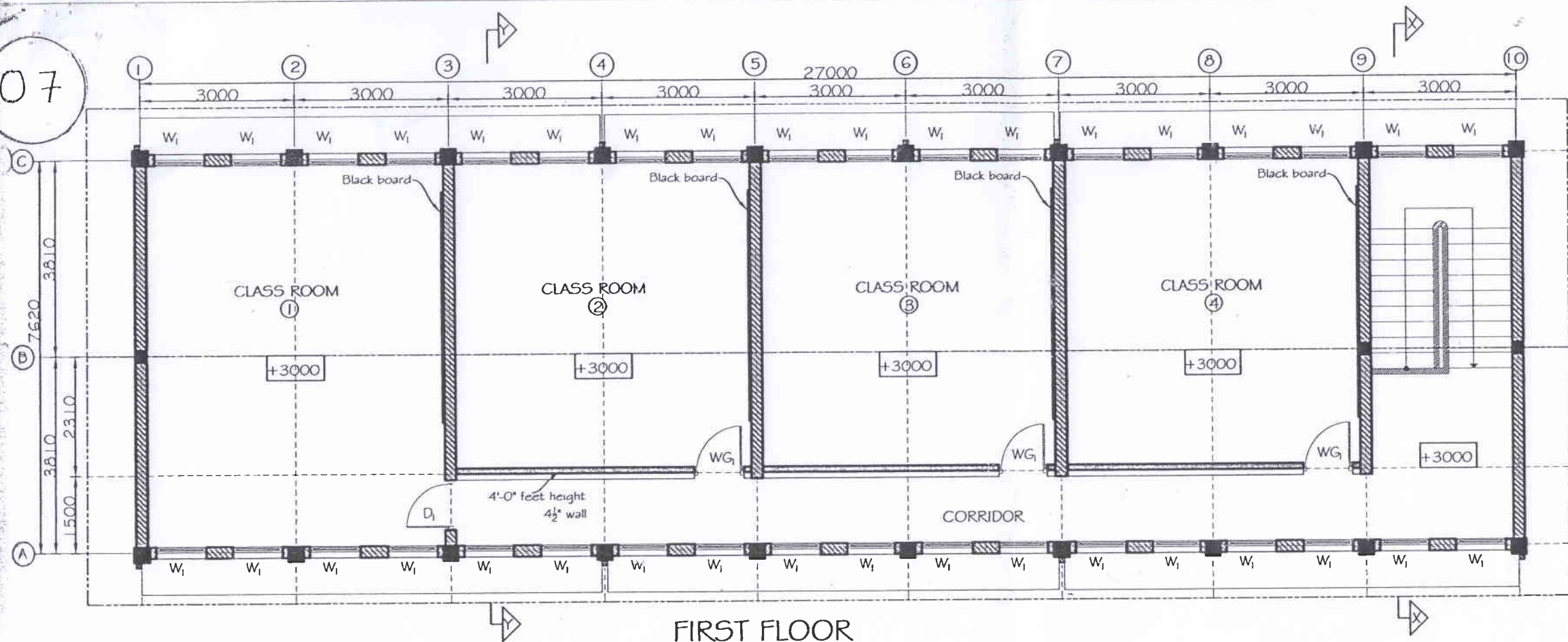
DEPUTY PROVINCIAL DIRECTOR (ENGINEERING SERVICES)  
PLANNING

APPROVAL BY:

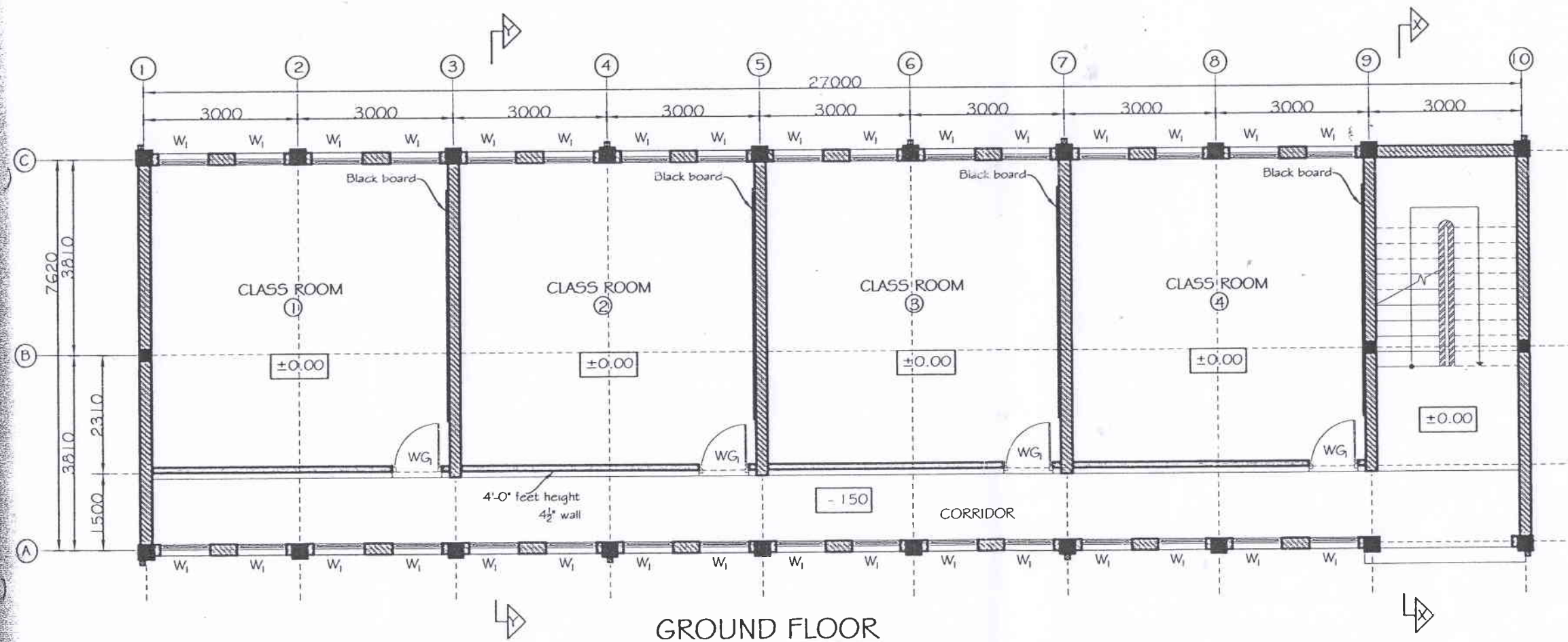
PROVINCIAL DIRECTOR ( ENGINEERING SERVICES)



07



FIRST FLOOR



GROUND FLOOR

NOTES:

1. CORNER STAIRCASE
2. SUITABLE FOR COLD WEATHER CONDITION
3. WITH GROUND FLOOR PASSAGE
4. UPPER FLOOR LAGER CLASS ROOM
5. CAN BE CONVERT TO A HALL

REV.	DATE	SIG.	DESCRIPTION

CLIENT:

MINISTRY OF EDUCATION

CONSULTANT:

DEPARTMENT OF ENGINEERING SERVICES,  
CENTRAL PROVINCIAL COUNCIL.

90' x 25' TWO STORIED BUILDING  
FOR SCHOOLS ( COLD WEATHER )  
07

DRAWING TITLE:

GROUND FLOOR ,FIRST FLOOR

DRAWING NO: CPC/CS/11/04/2016- /TSC/COLD/CS-07-

SCALE : 1:100@A3

DESIGNED & CHECKED BY:

Eng. W.M.A WICKRAMASINGHE

DRAWN BY: AWANTHI /NILUSHA

DATE: 19.09.2016

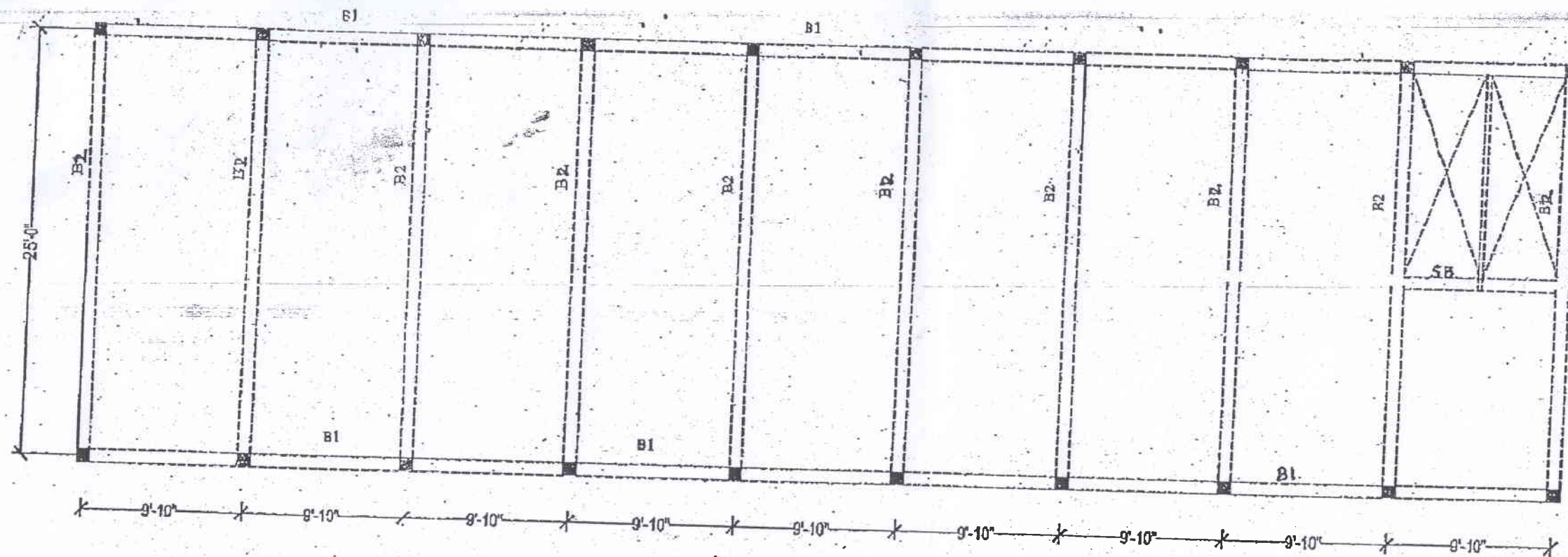
RECOMMENDED BY:

DEPUTY PROVINCIAL DIRECTOR (ENGINEERING SERVICES)  
PLANNING

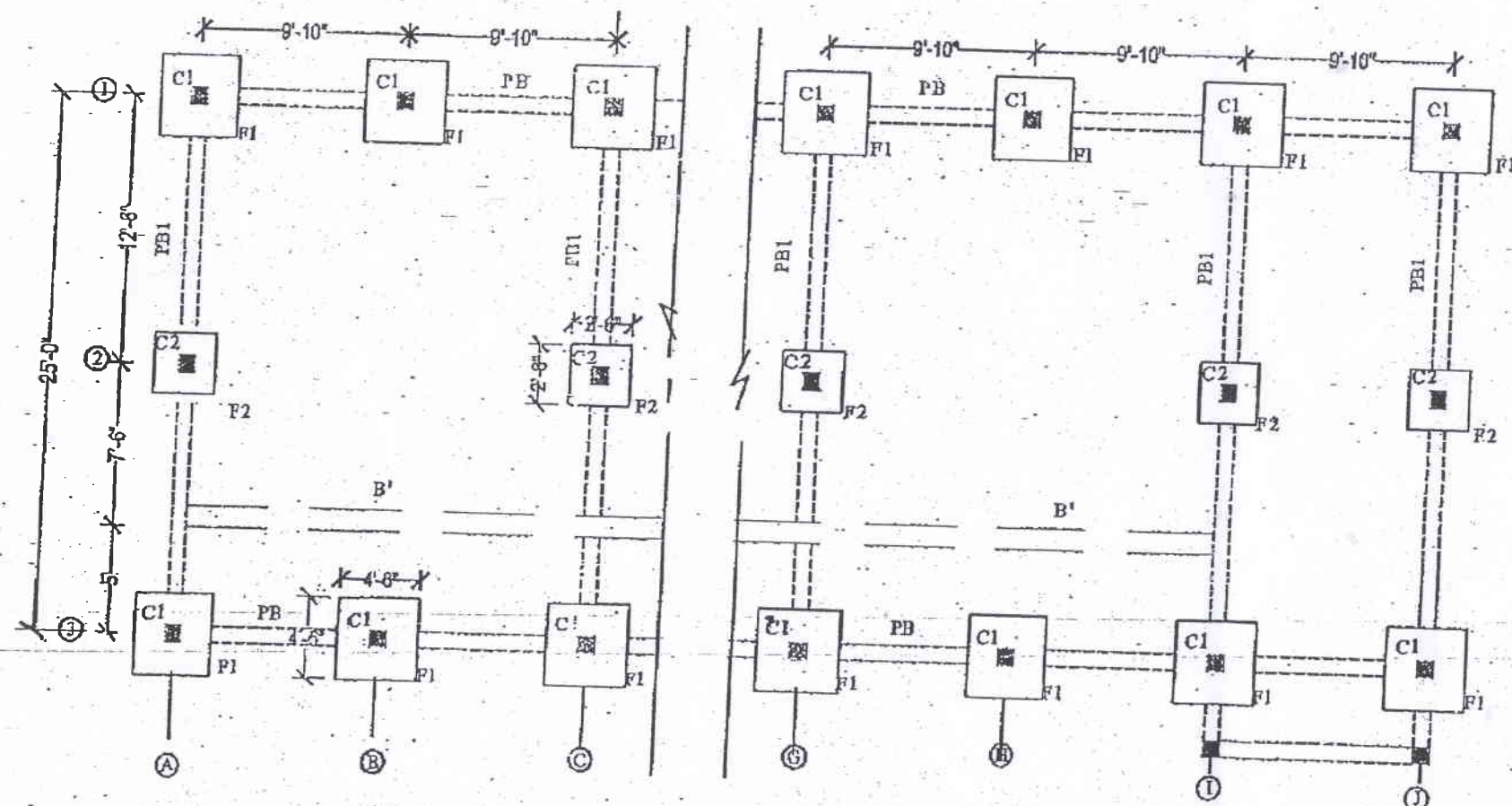
APPROVAL BY:

PROVINCIAL DIRECTOR (ENGINEERING SERVICES)





**LAYOUT PLAN OF BEAMS**



**LAYOUT PLAN OF FOUNDATION/PLINTH BEAMS**

**TYPE PLAN OF 12 CLASS ROOMS BLOCK  
(90' x 25' TWO STORED BUILDING)**

DEPARTMENT OF ENGINEERING SERVICES,  
(EDUCATION BUILDINGS)

SCALE -  
8 Feet to an Inch

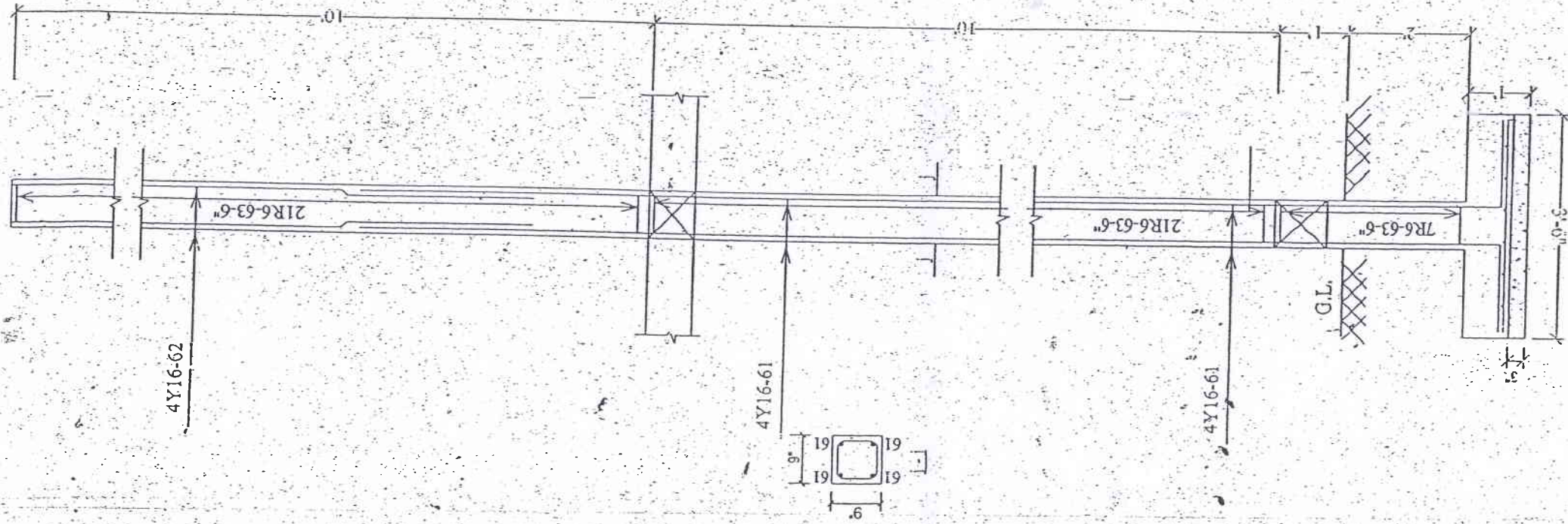
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DRAWN BY - W.A.P.DAANI (DRAUGHTSMAN-SPL.GRADE)

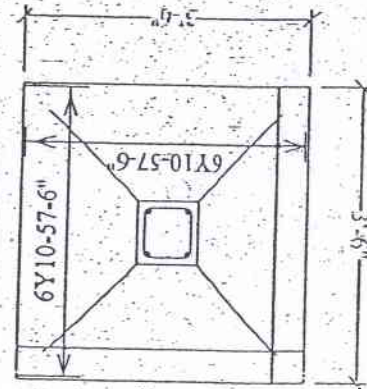
CHECKED BY - H.H.P.DUMBUKOLA (TECHNICAL OFFICER-SPECIAL GRADE)

Eng. H.W.S.P. Jayawardhana  
Deputy Director (Education Buildings)  
Engineering Services Department  
238/3, S.W.H.D. Bandaranayaka Mawatha  
Kandy

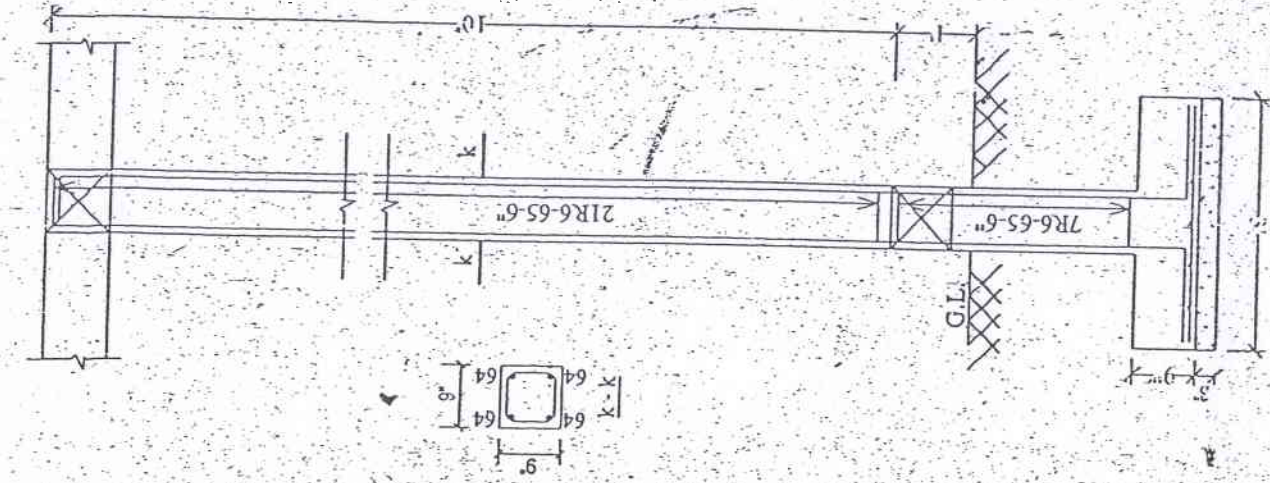




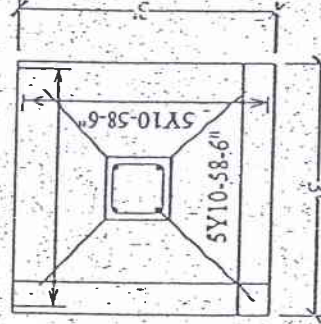
COLUMN - C1



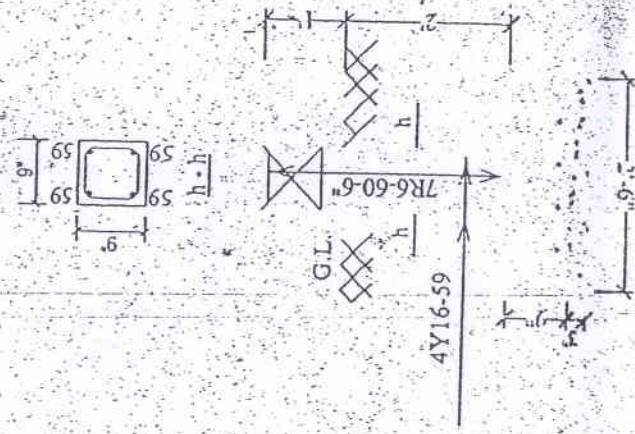
FOOTING-F1



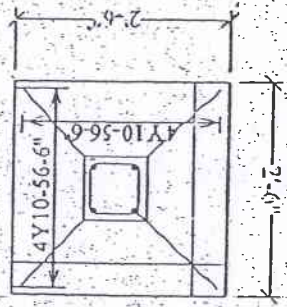
COLUMN - C2



FOOTING-F2



COLUMN - C0



FOOTING-F0

TYPE PLAN OF 40' x 25' TWO STORED BUILDING

DEPARTMENT OF ENGINEERING SERVICES  
(EDUCATION BUILDINGS)

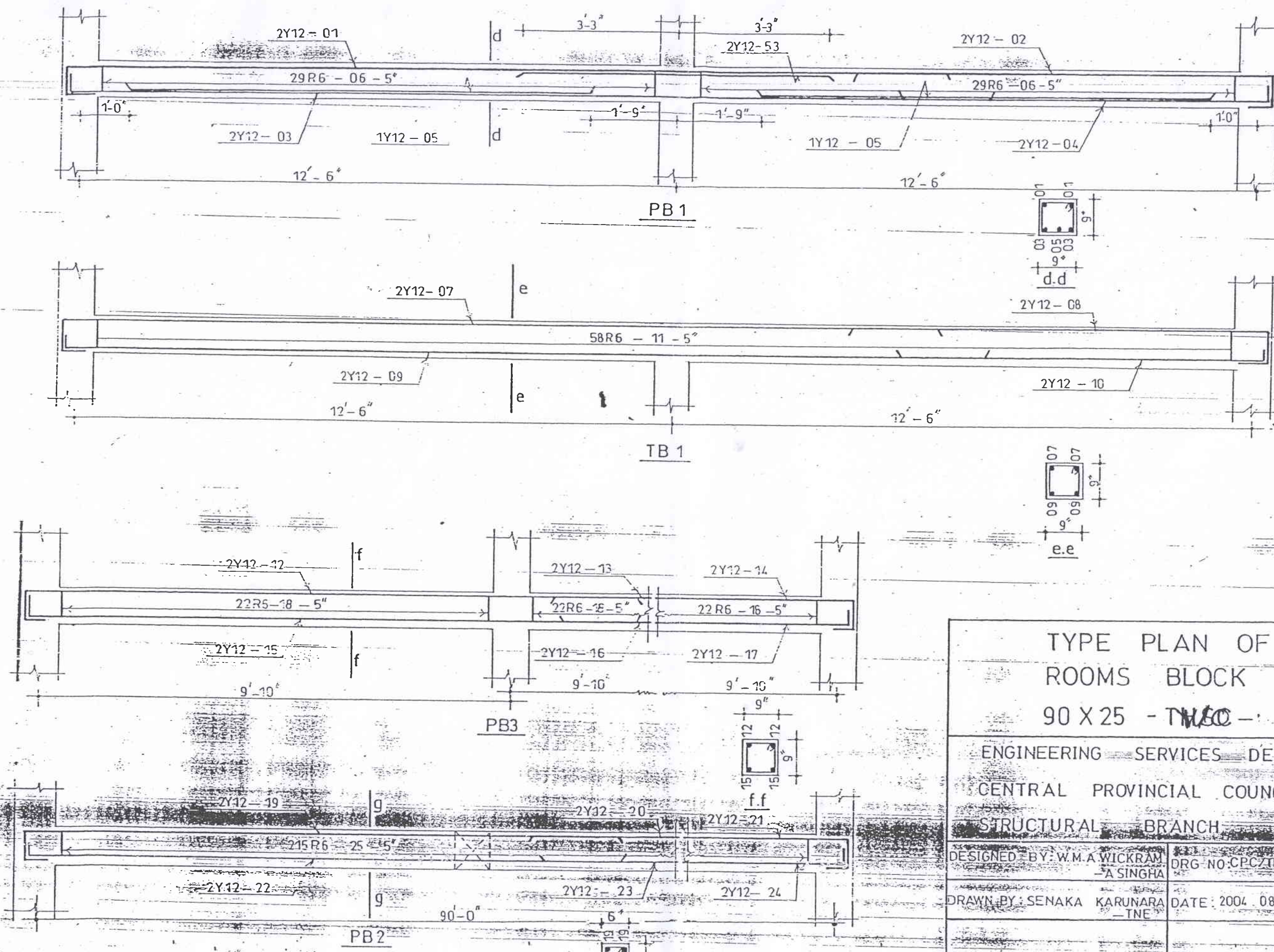
DRAWN BY - A.M.A.D.K.ATHAUDA

SCALE -  
2 Feet to an inch

CHECKED BY - H.H.P.DUMBOKOLA

Eng. H. W. S. P. Jayawardhane  
Deputy Director (School Buildings)  
Engineering Services Department  
Deputy Director Education Buildings, Bandaranayaka Mawatha,  
Kandy



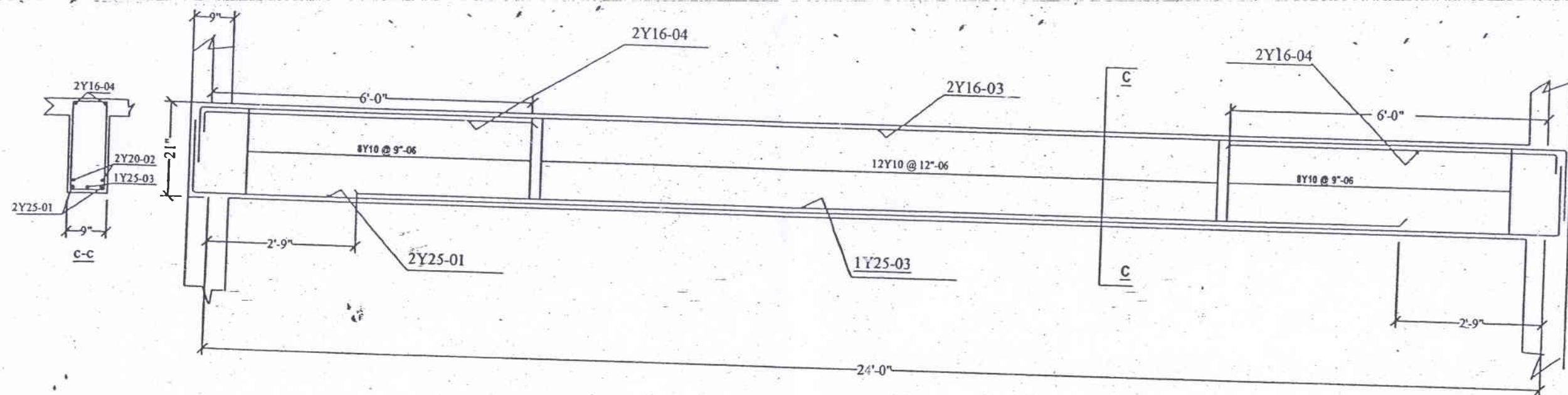


# TYPE PLAN OF CLASS ROOMS BLOCK 90 X 25 - TWO -

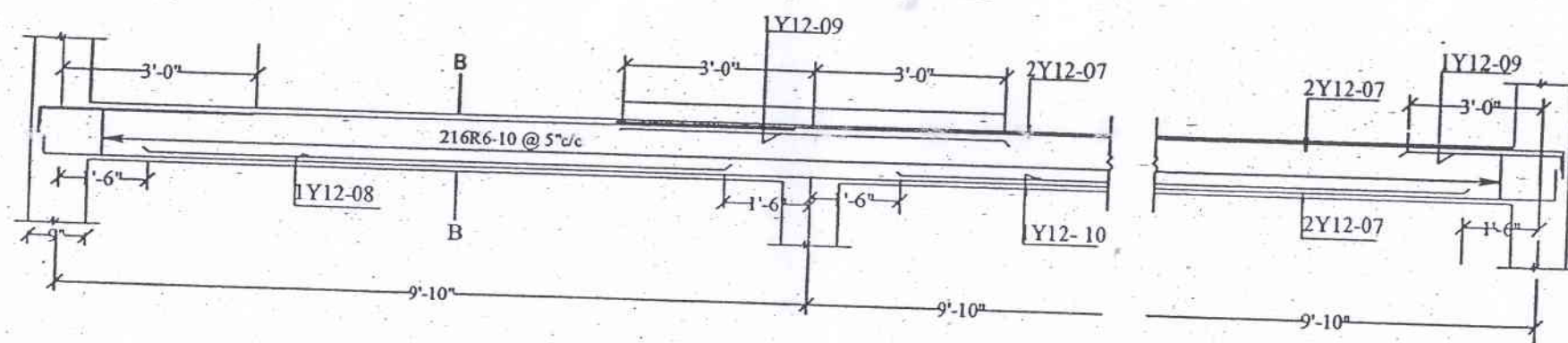
ENGINEERING SERVICES DEPARTMENT  
CENTRAL PROVINCIAL COUNCIL KANDY  
STRUCTURAL BRANCH

DESIGNED BY: W.M.A WICKRAM  
A SINGHA  
DRAWN BY: SENAKA KARUNARA  
TNE  
DATE: 2004.08.03  
DRG NO: CPC/IR/06/2004/276/2/13

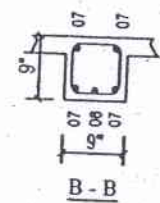




**BEAM-B2**



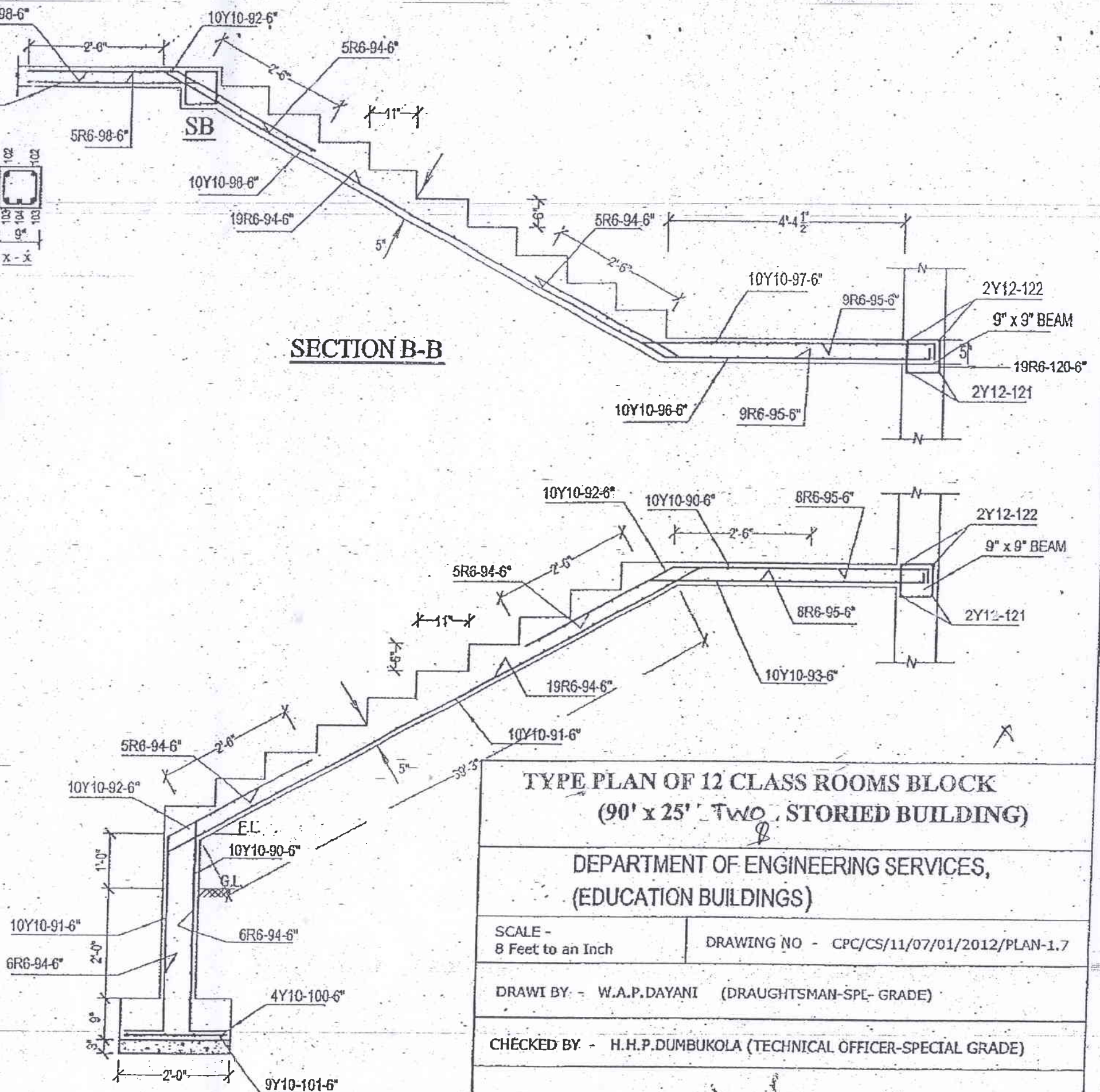
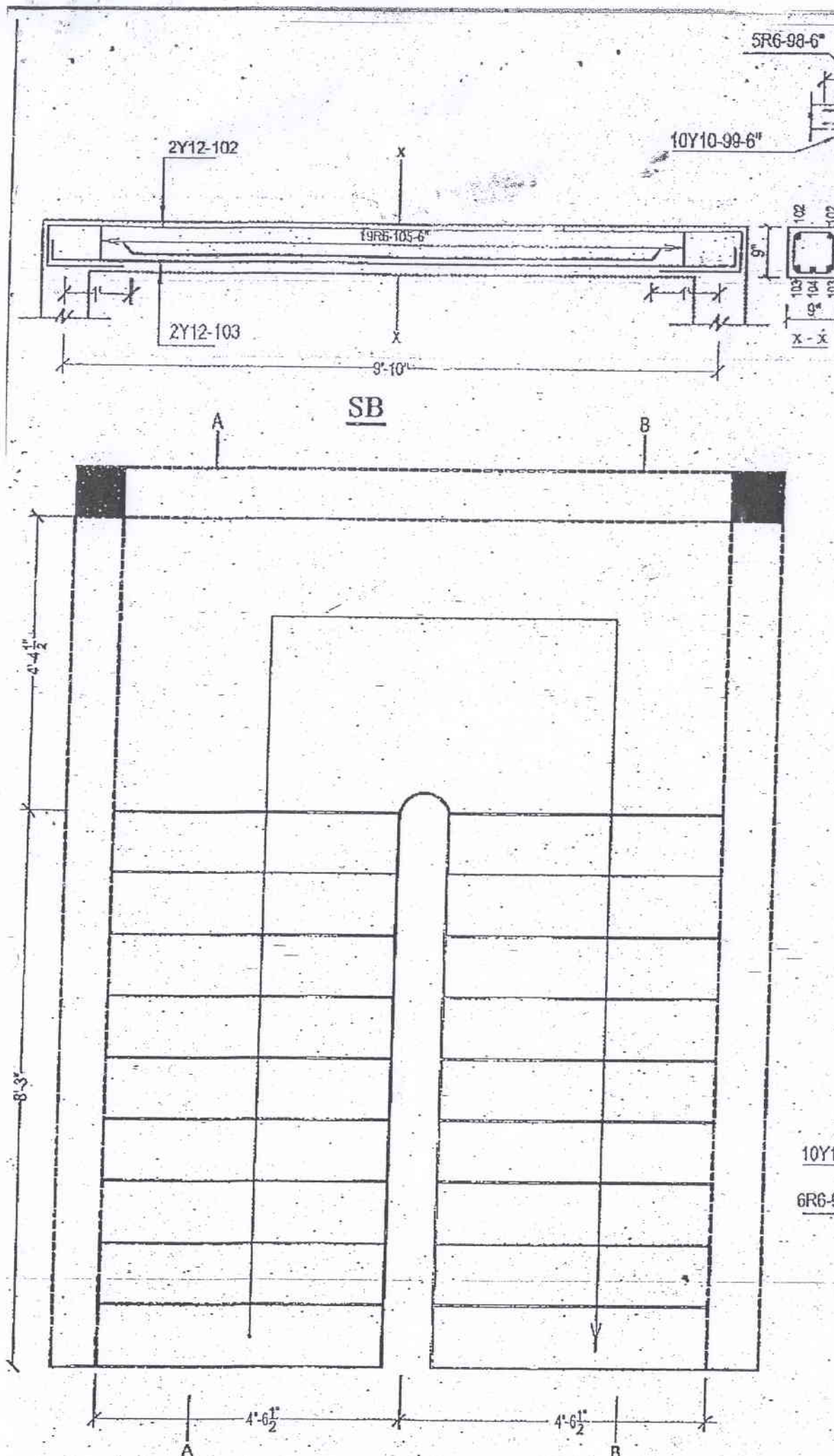
**BEAM-B1**



DEPARTMENT OF ENGINEERING SERVICES,  
(EDUCATION BUILDINGS)

Eng. H. W. S. P. Jayawardhana  
(S. I. E. S - 01)  
Deputy Director Engineering Service  
(Education Buildings)





**TYPE PLAN OF 12 CLASS ROOMS BLOCK  
(90' x 25' TWO STORIED BUILDING)**

**DEPARTMENT OF ENGINEERING SERVICES,  
(EDUCATION BUILDINGS)**

SCALE -  
8 Feet to an Inch

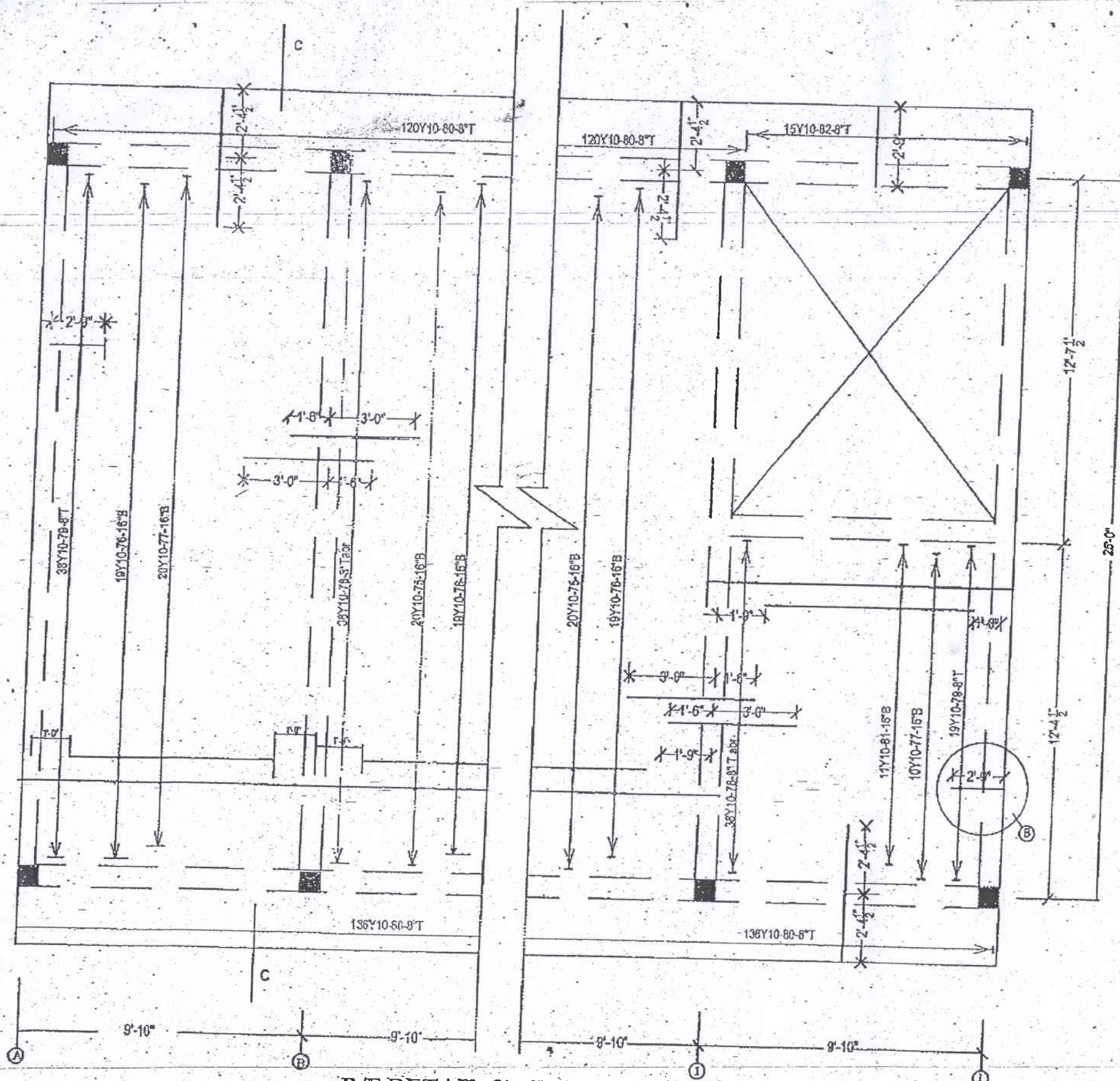
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DRAWN BY - W.A.P.DAYANI (DRAUGHTSMAN-SPL- GRADE)

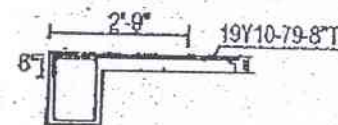
CHECKED BY - H.H.P.DUMBUKOLA (TECHNICAL OFFICER-SPECIAL GRADE)

09/01/2012  
Eng. H.W.S.P. Jayawardhana  
Director (School) Building  
Department of Engineering Services

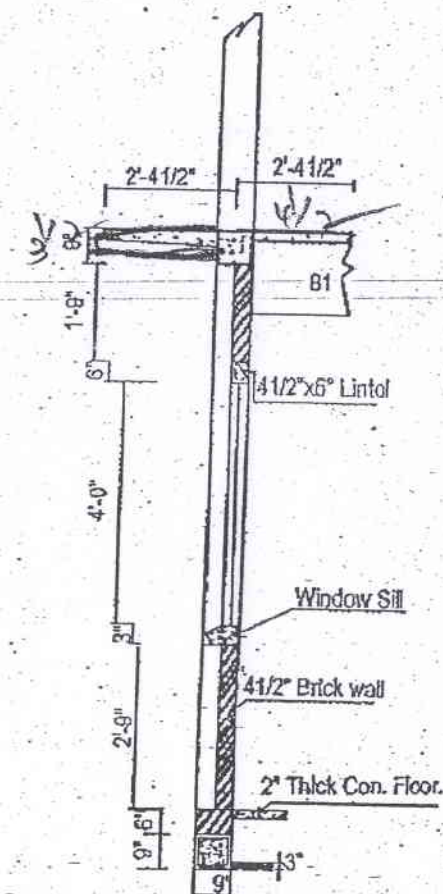




**R/F DETAIL OF SLAB**  
**SLAB THICKNESS - 4 1/2"**  
**DISTRIBUTION BARS - R6-6"C/C**



**DETAIL AT-B**



**SECTION C-C**  
**DETAIL PLAN OF SUNSHADE & WINDOW SILL**

**TYPE PLAN OF 12 CLASS ROOMS BLOCK**  
**(90' x 25' TWO STORIED BUILDING)**

**DEPARTMENT OF ENGINEERING SERVICES,**  
**(EDUCATION BUILDINGS)**

SCALE -  
 8 Feet to an Inch

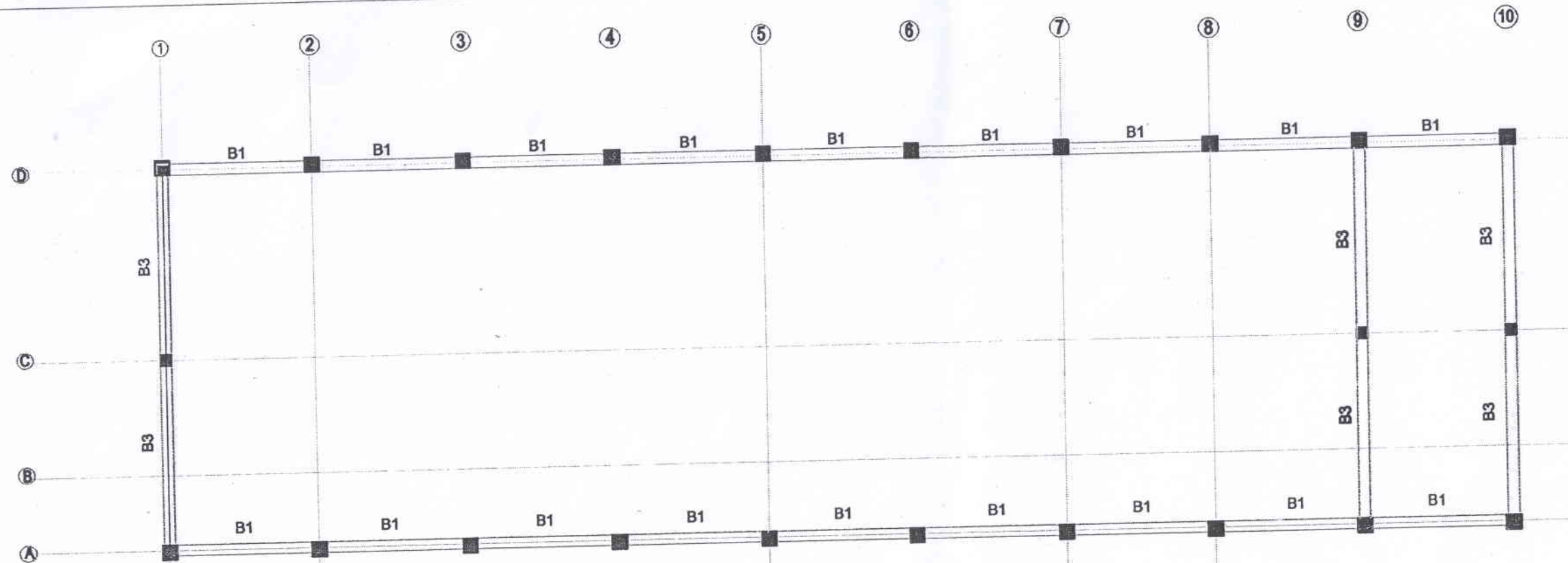
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DRAWN BY - W.A.P.DAYANI (DRAUGHTSMAN-SPL. GRADE)

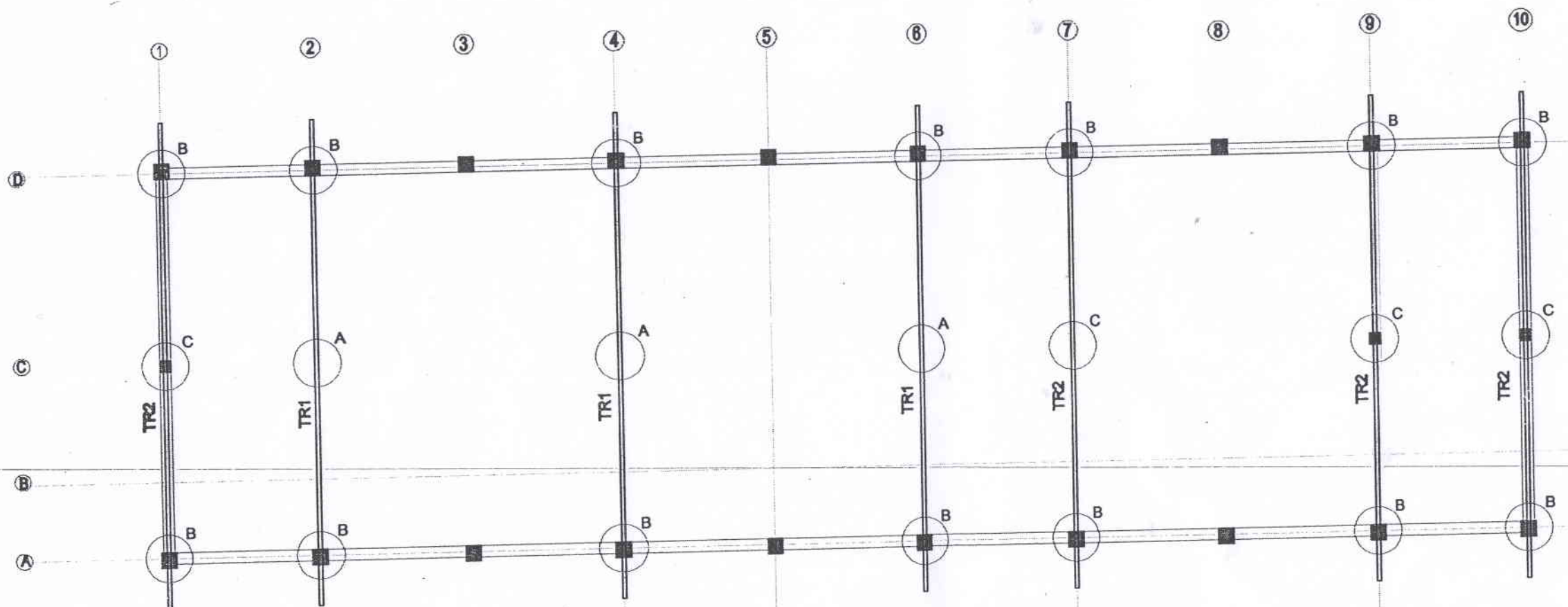
CHECKED BY - H.H.P.DUMBUKOLA (TECHNICAL OFFICER-SPECIAL GRADE)

Eng. H.W.S.P. JAYAWARDANE, Director  
 DEPUTY DIRECTOR (EDUCATION BUILDINGS)





LAYOUT PLAN OF TIE BEAMS AT ROOF LEVEL



LAYOUT PLAN OF TRUSSES

NOTES:

සිංග්ලි ඉංජිනේරු ගොඩනැගිලි  
 සේවා දෙපාර්තමේන්තුව  
 13.10.2016  
 ඉංජිනේරු සේවා සඳහා පැවරුණු  
 සිංග්ලි ප්‍රී පාල - කුරුමාවලිය

REV.	DATE	BY	DESCRIPTION

CLIENT:  
 MINISTRY OF EDUCATION

CONSULTANT:  
 DEPARTMENT OF ENGINEERING SERVICES,  
 CENTRAL PROVINCIAL COUNCIL

PROPOSED 40'x25' TWO STOREY BUILDING  
 FOR SCHOOL

DRAWING TITLE:  
 LAYOUT PLANS OF TIE BEAMS & TRUSSES

DRG. NO. - CPC/CS/11/04/2016- /TSC/COLD/CS/07/

SCALE : 1:100

DESIGNED & CHECKED BY:

Eng. W.M.A. WICKRAMASINGHE

DRAWN BY: NILMINI

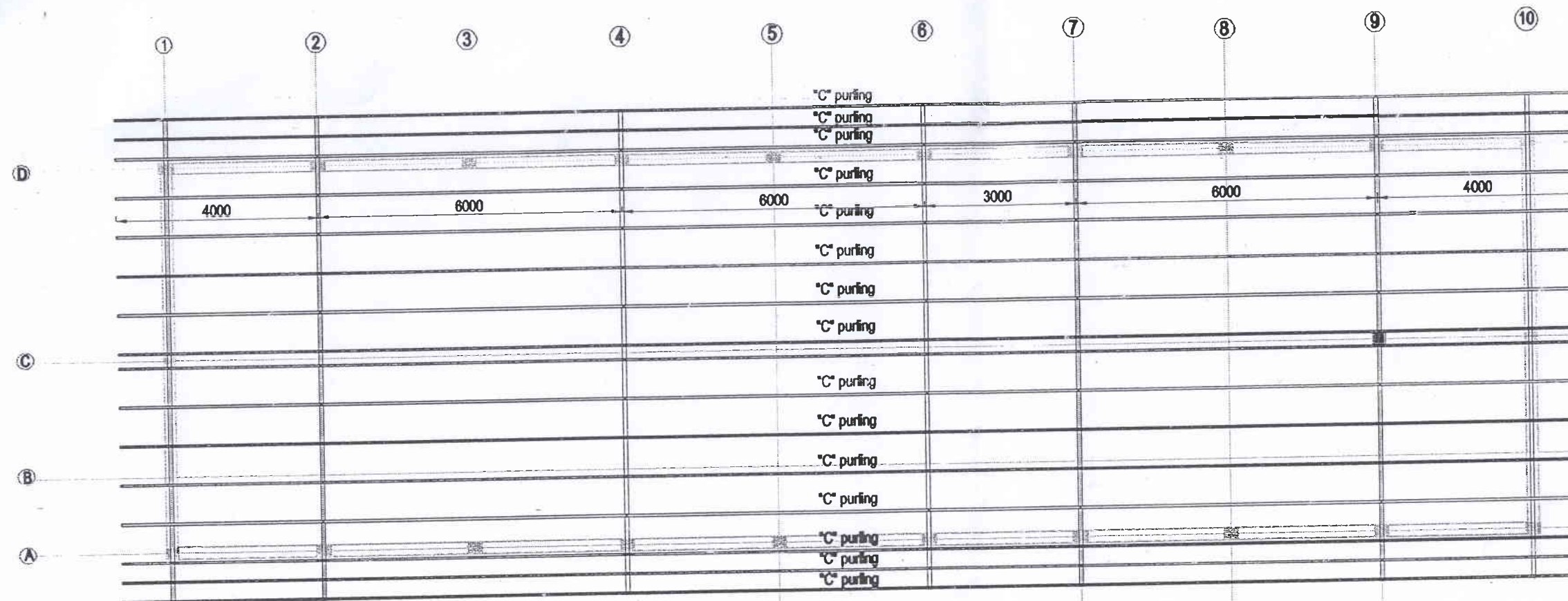
DATE: 13.10.2016

RECOMMENDED BY:

DEPUTY PROVINCIAL DIRECTOR (ENG. SERV.)  
 PLANNING

APPROVED BY:

PROVINCIAL DIRECTOR (ENGINEERING SERVICES)



LAYOUT PLAN OF PURLINS

**NOTES:**

ALL PURLINS :- 150x62x14 -2mm  
HI Tensile Galvanized Purlins  
(maximum 1000)

REV.	DATE	BY	DESCRIPTION

CLIENT:

MINISTRY OF EDUCATION

CONSULTANT:

DEPARTMENT OF ENGINEERING SERVICES,  
CENTRAL PROVINCIAL COUNCIL

PROPOSED 90'x25' TWO STORED BUILDING  
FOR SCHOOL

DRAWING TITLE:

LAYOUT PLANS OF PURLINGS

DRG. NO. - CPC/CS/11/04/2016- /TSC/COLD/CS/07/

SCALE : 1:100

DESIGNED & CHECKED BY:

Eng. W.M.A.WICKRAMASINGHE

DRAWN BY: NILMINI

DATE: 13.10.2016

RECOMMENDED BY:

DEPUTY PROVINCIAL DIRECTOR (ENG. SERV)  
PLANNING

APPROVED BY:

PROVINCIAL DIRECTOR (ENGINEERING SERVICES)



NOTES:

REV.	DATE	BY	DESCRIPTION

CLIENT:  
MINISTRY OF EDUCATION

CONSULTANT:  
DEPARTMENT OF ENGINEERING SERVICES,  
CENTRAL PROVINCIAL COUNCIL

PROPOSED 90'x25' TWO STORED BUILDING  
FOR SCHOOL

DRAWING TITLE:  
DETAIL OF TRUSS- TR1

DRG. NO. - CPC/CS/11/04/2016- /TSC/COLD/CS/07/

SCALE : 1:100

DESIGNED & CHECKED BY:

Eng. W.M.A.WICKRAMASINGHE

DRAWN BY: NILMINI

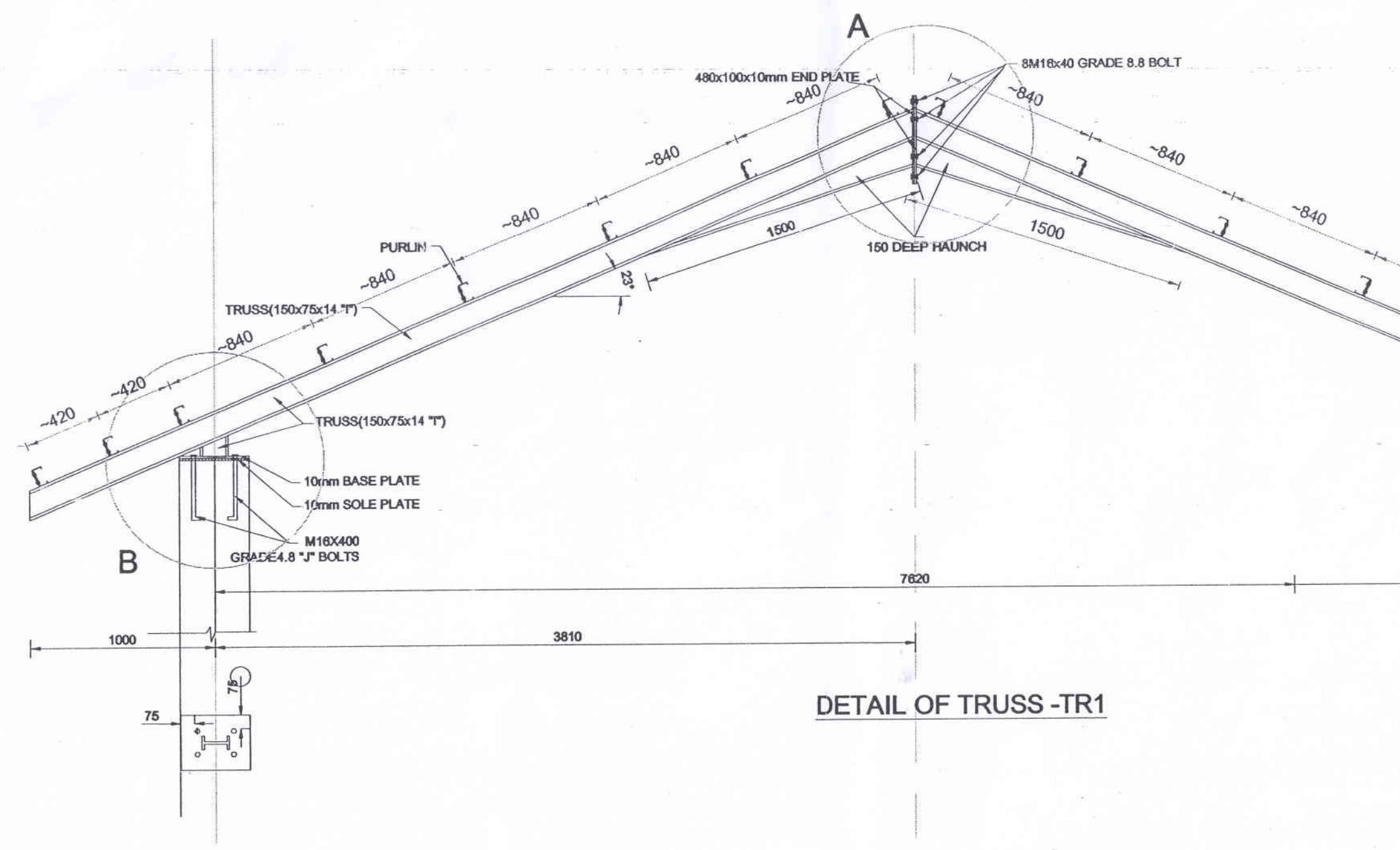
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RECOMMENDED BY:

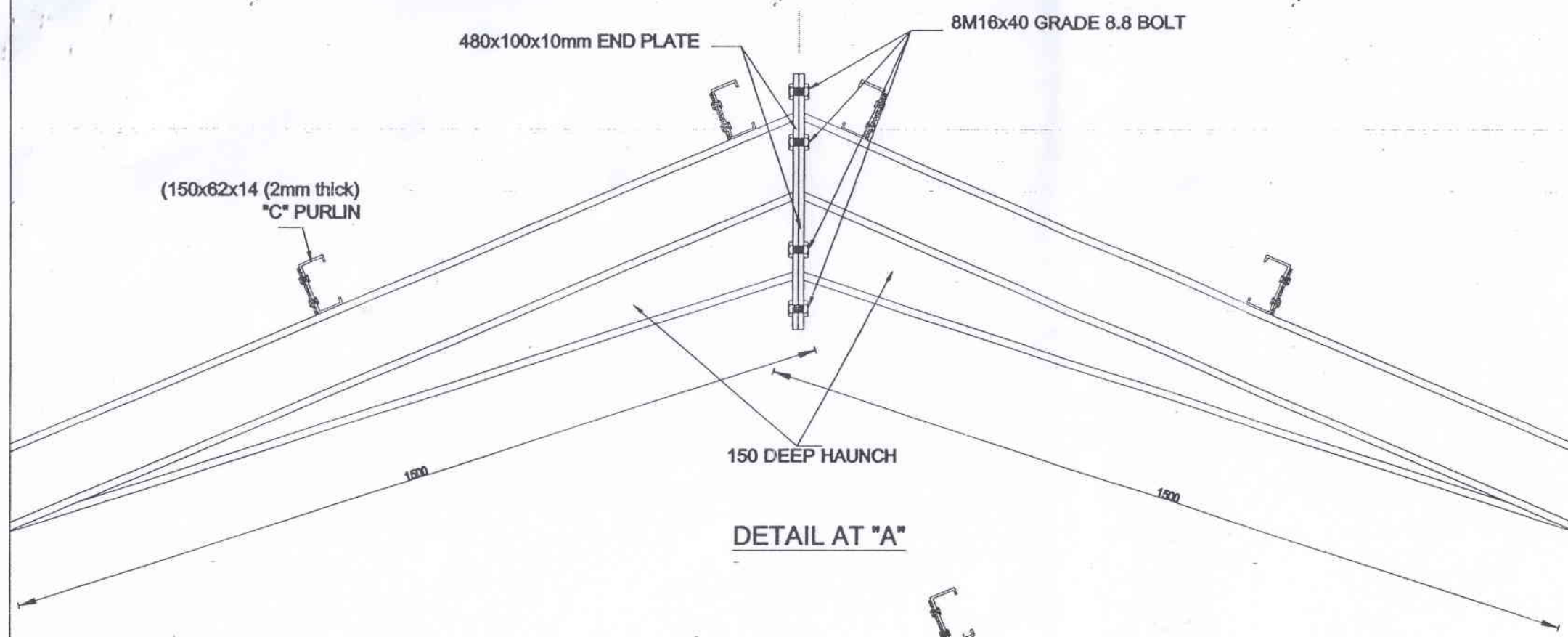
DEPUTY PROVINCIAL DIRECTOR (ENR. SERV)  
PLANNING

APPROVED BY:

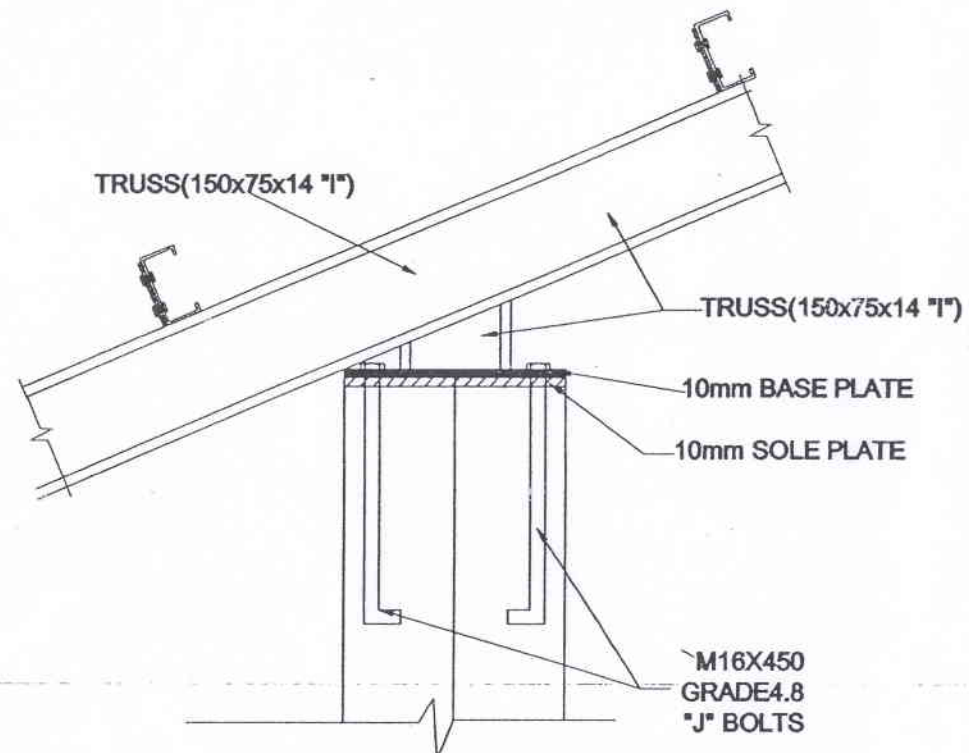
PROVINCIAL DIRECTOR (ENGINEERING SERVICES)



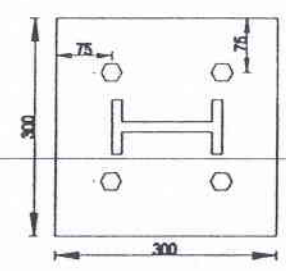
DETAIL OF TRUSS -TR1



**DETAIL AT "A"**



**DETAIL AT "B"  
(BASE PLATE CONNECTION)**



NOTES:

REV.	DATE	BY	DESCRIPTION

CLIENT:  
**MINISTRY OF EDUCATION**

CONSULTANT:  
**DEPARTMENT OF ENGINEERING SERVICES,  
CENTRAL PROVINCIAL COUNCIL**

**PROPOSED 90'x25' TWO STORED BUILDING  
FOR SCHOOL**

DRAWING TITLE:  
**DETAIL OF "A" & "B"**

DRG. NO. - **CPC/CS/11/04/2016- /TSC/COLD/CS/07/**

SCALE : **1:100**

DESIGNED & CHECKED BY:

**Eng. W.M.A. WICKRAMASINGHE**

DRAWN BY: **NILMINI**

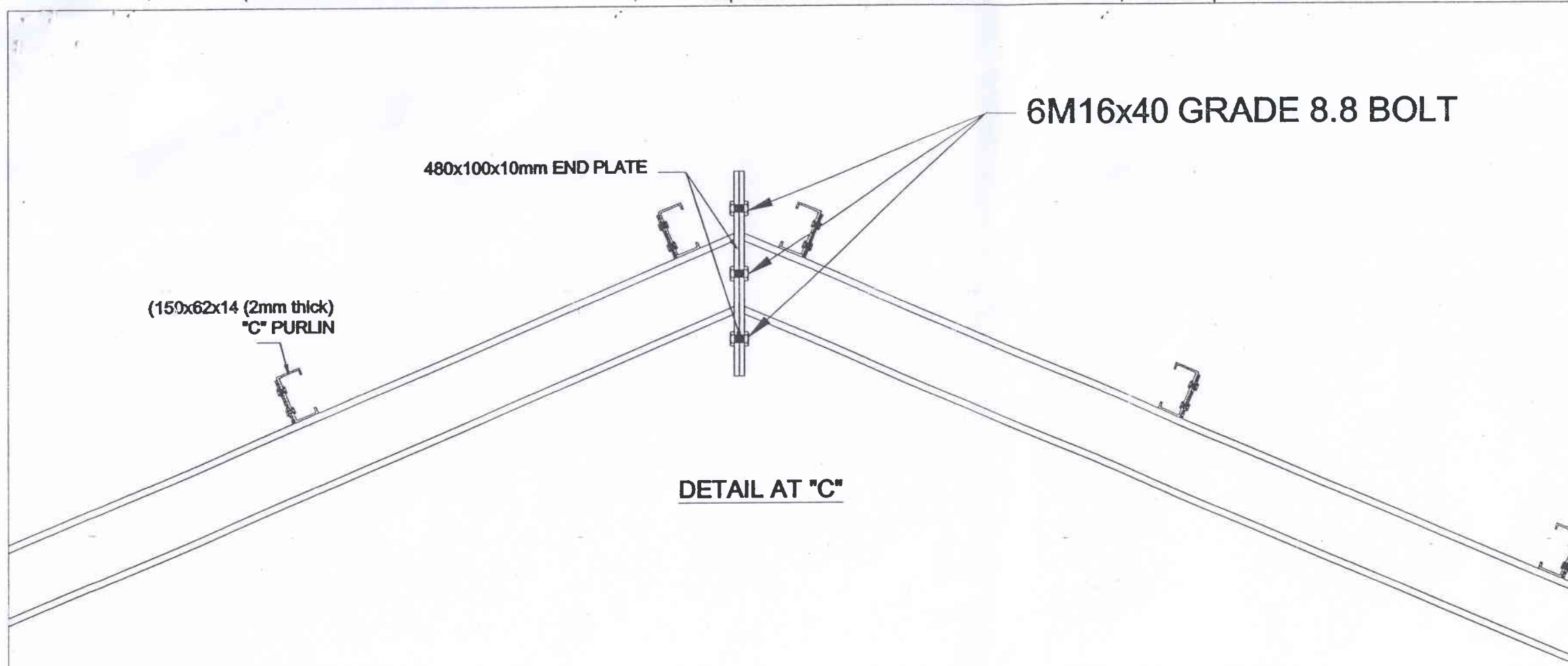
DATE: **13.10.2016**

RECOMMENDED BY:

**DEPUTY PROVINCIAL DIRECTOR (ENG. SERV.)  
PLANNING**

APPROVED BY:

**PROVINCIAL DIRECTOR (ENGINEERING SERVICES)**



NOTES:

REV.	DATE	BY	DESCRIPTION

CLIENT:

MINISTRY OF EDUCATION

CONSULTANT:

DEPARTMENT OF ENGINEERING SERVICES,  
CENTRAL PROVINCIAL COUNCIL

PROPOSED 80'x25' TWO STORED BUILDING  
FOR SCHOOL

DRAWING TITLE:

DETAIL OF "C"

DRG. NO. - CPC/CS/11/04/2016- /TSC/COLD/CS/07/

SCALE : 1:100

DESIGNED & CHECKED BY:

Eng. W.M.A. WICKRAMASINGHE

DRAWN BY: NILMINI

DATE: 13.10.2016

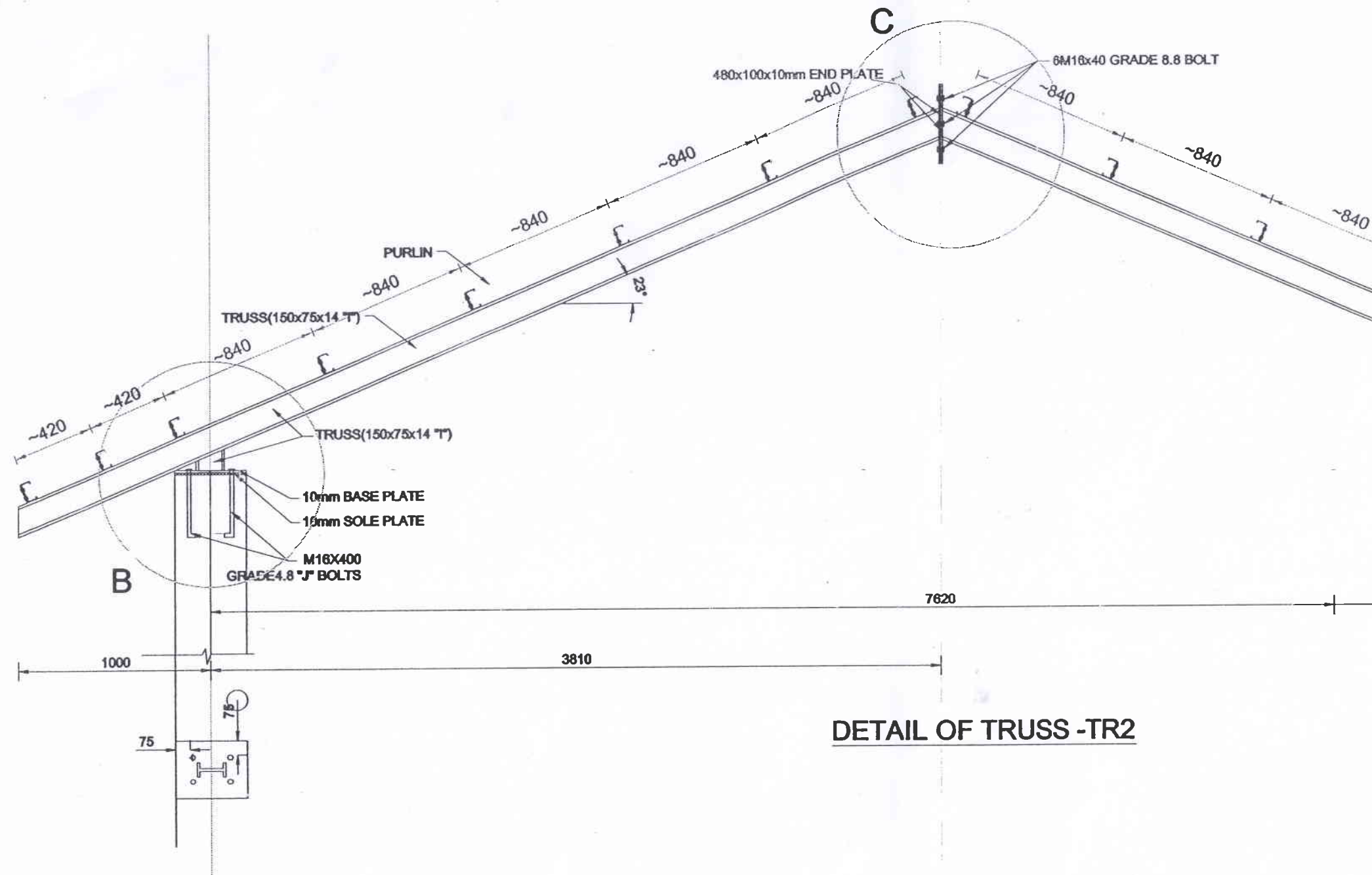
RECOMMENDED BY:

DEPUTY PROVINCIAL DIRECTOR (ENG. SERV.)  
PLANNING

APPROVED BY:

PROVINCIAL DIRECTOR (ENGINEERING SERVICES)





**DETAIL OF TRUSS -TR2**

NOTES:

REV.	DATE	BY	DESCRIPTION

CLIENT:

MINISTRY OF EDUCATION

CONSULTANT:

DEPARTMENT OF ENGINEERING SERVICES,  
CENTRAL PROVINCIAL COUNCIL

PROPOSED 90'x25' TWO STORED BUILDING  
FOR SCHOOL

DRAWING TITLE:

DETAIL OF TRUSS- TR2

DRG. NO. - CPC/CS/11 /04/2016- /TSC/COLD/CS/07/

SCALE : 1:100

DESIGNED & CHECKED BY:

Eng. W.M.A.WICKRAMASINGHE

DRAWN BY: NILMINI

DATE: 13.10.2016

RECOMMENDED BY:

DEPUTY PROVINCIAL DIRECTOR (ENG. SERV.)  
PLANNING

APPROVED BY:

PROVINCIAL DIRECTOR (ENGINEERING SERVICES)