



AMERICAN INTERNATIONAL UNIVERSITY- BANGLADESH

Faculty of Science and Technology

Presentation Link: <https://youtu.be/iwKYPq6e4IU>

Assignment Title: CAD Assignment

Assignment Number: 02

Date of Submission: 17/04/2021

Course Name: COMPUTER AIDED DESIGN AND DRAFTING

Section: E

Course Code: BAE 2101

Semester: Spring 2020-21[Final Term]

Course Instructor: Nafish Sarwar Islam

Student's Information

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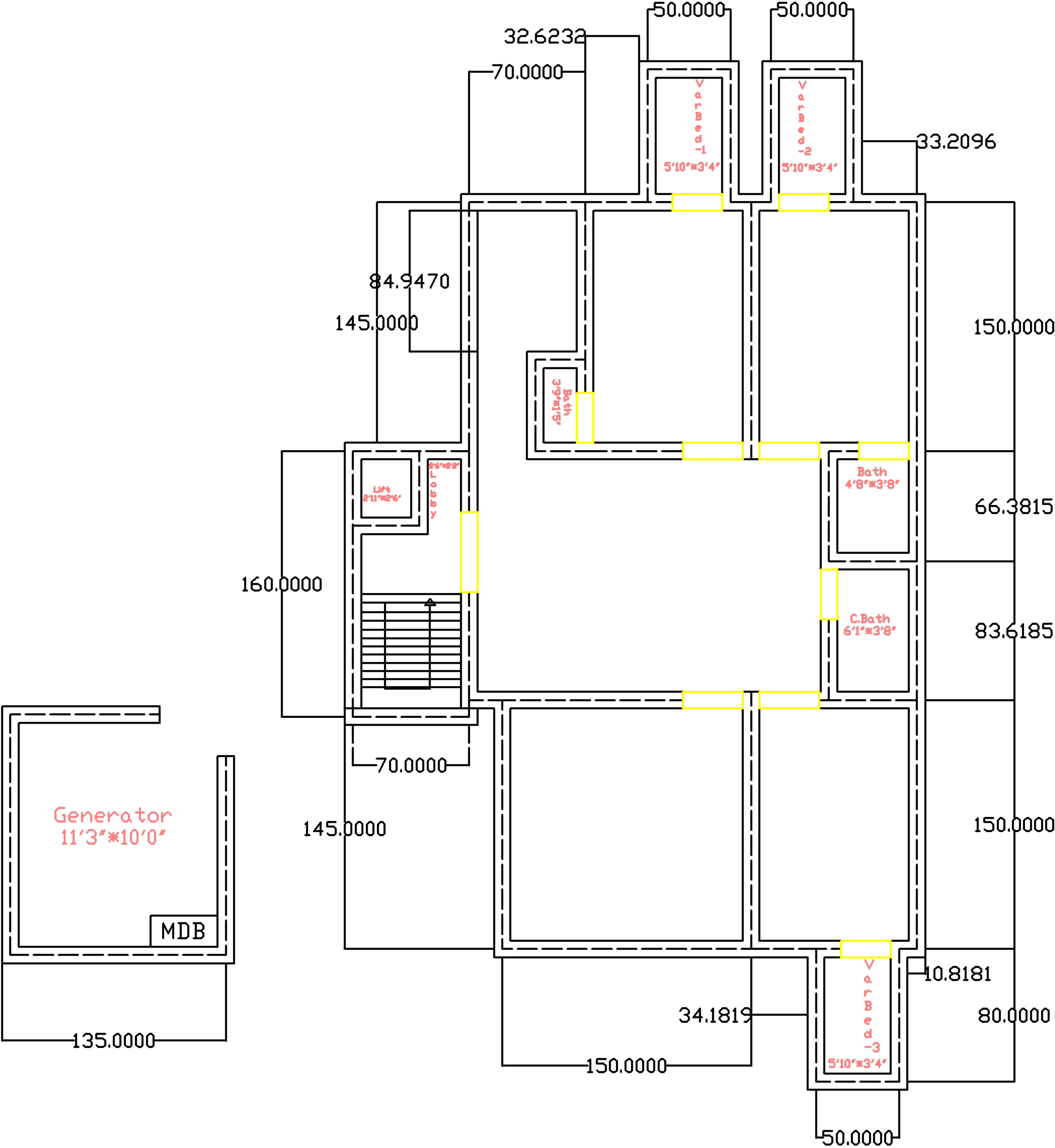
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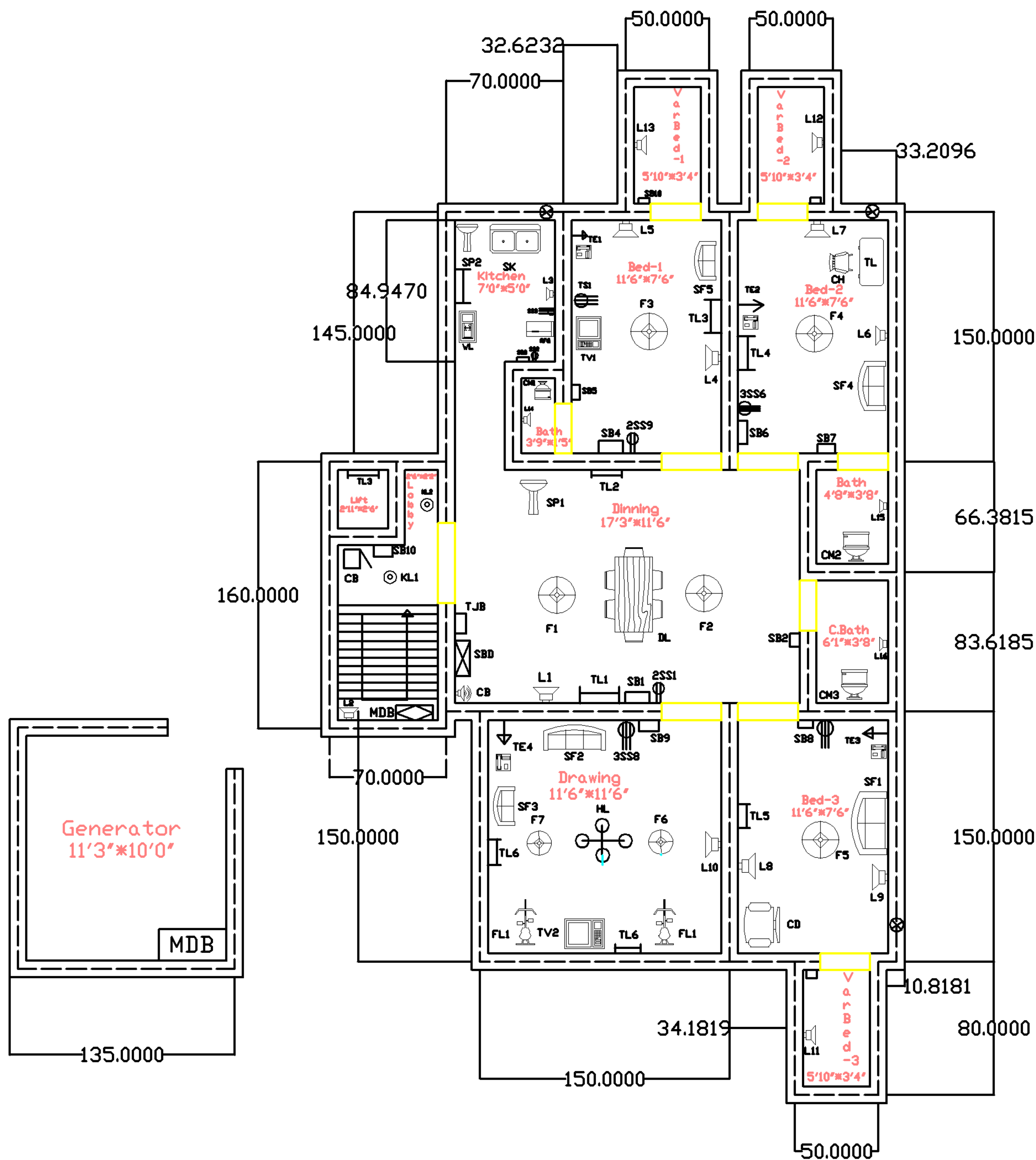
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Initial Design Without Loads and Wirings





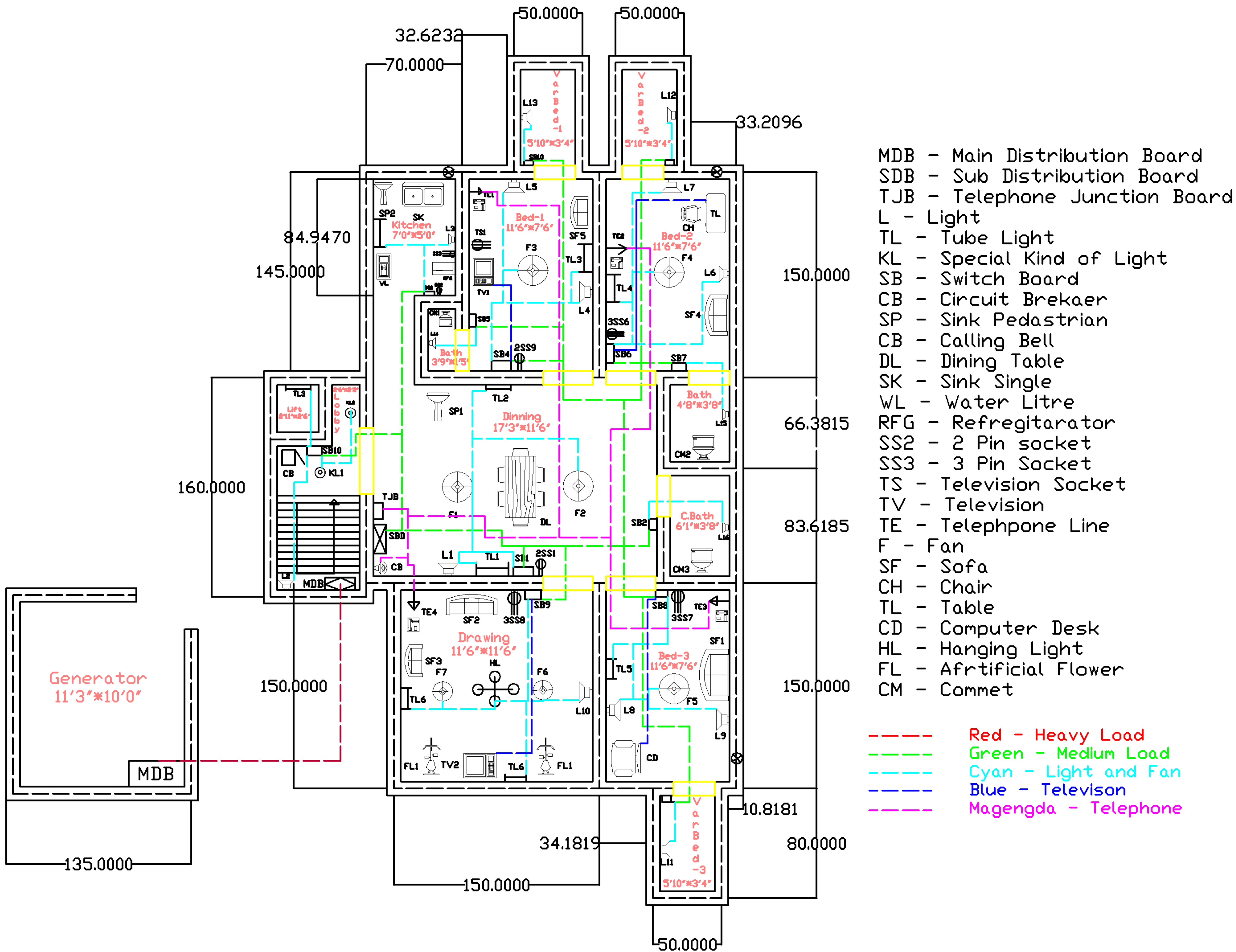
Design Layout with Loads



- MDB - Main Distribution Board
- SDB - Sub Distribution Board
- TJB - Telephone Junction Board
- L - Light
- TL - Tube Light
- KL - Special Kind of Light
- SB - Switch Board
- CB - Circuit Brekaer
- SP - Sink Pedastrian
- CB - Calling Bell
- DL - Dining Table
- SK - Sink Single
- WL - Water Litre
- RFG - Refregitarator
- SS2 - 2 Pin socket
- SS3 - 3 Pin Socket
- TS - Television Socket
- TV - Television
- TE - Telephphone Line
- F - Fan
- SF - Sofa
- CH - Chair
- TL - Table
- CD - Computer Desk
- HL - Hanging Light
- FL - Afrtificial Flower
- CM - Commet



Final Design Layout with Loads Wiring





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Load Calculation:

- Light/ Bulb: $16 * 30 = 480$ watts
- Tube Light: $9 * 35 = 315$ watts
- Special Kind of Light: $2 * 60 = 120$ watts
- Fans: $70 * 7 = 490$ watts
- Televisions: $35 * 2 = 70$ watts
- Computers: $60 * 2 = 120$ watts
- Telephones: $10 * 4 = 40$ watts
- Refrigerator: 200 watts
- Calling Bell: 8 watts

If we use Lights 10 hours a day, Fans 12 hours a day, Televisions 3 hours a day, Computers 5 hours a day, Telephones 3 hours a day, Refrigerator 20 hours a day, Calling bell 0,5 hours a day on average, our total cost at the end of the month will be 300 units.

Estimated costs: $300 * 8 = 2400$ Taka.



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Thank You!