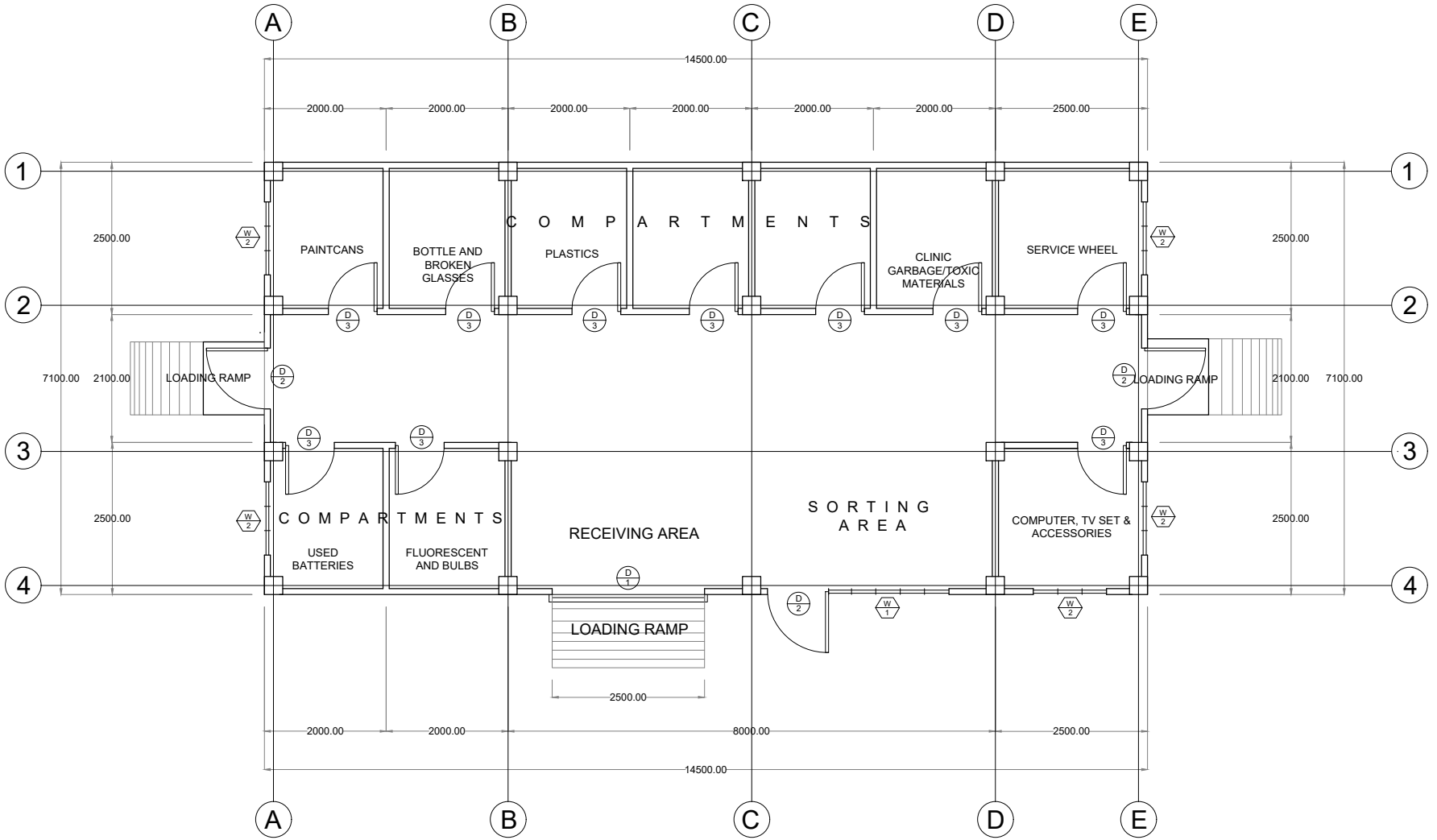

PERSPECTIVE


FRONT VIEW

SIDE VIEW


SIDE VIEW

| | | | | | |
|---|---|---|---|---|---|
| SOUTHERN LEYTE STATE UNIVERSITY<br>SOGOD, SOUTHERN LEYTE<br>www.slsuonline.edu.ph<br>email: slsumaincampus@gmail.com<br>telefax: (053)577-8299 | PREPARED BY:<br>AR. SARAH JANE G. HERNANI,uap<br>ARCHITECT | PROJECT TITLE:<br>PROPOSED HAZARDOUS WASTE STORAGE FACILITY AT SOGOD CAMPUS<br>LOCATION: SLSU-MAIN CAMPUS, SAN ROQUE, SOGOD SOUTHERN LEYTE | OWNER:<br>SOUTHERN LEYTE STATE UNIVERSITY<br>ADDRESS: SOGOD SOUTHERN LEYTE | APPROVED AS PER PLAN:<br>PROSE IVY G. YEPES, Ed.D<br>UNIVERSITY PRESIDENT | SHEET CONTENT:<br>AS SHOWN<br>CHECKED: / DRAWN: / SCALE:<br>APPROVED: / DATE: / AS SHOWN | SHEET NO:<br>A-01 |




A-02 FLOOR PLAN

SCALE: 1:100 MTS

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|---|---|---|---|---|---|
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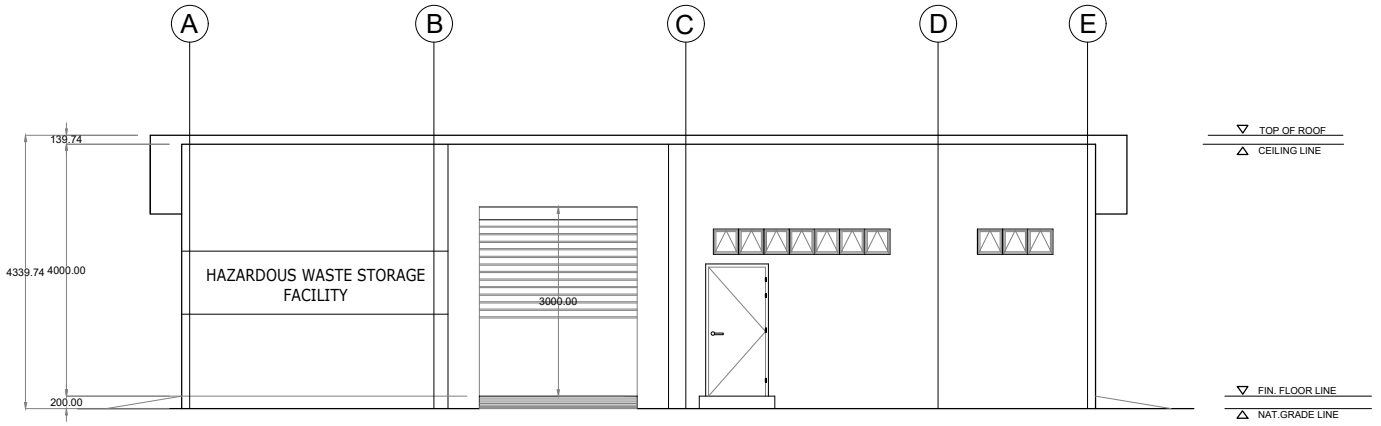
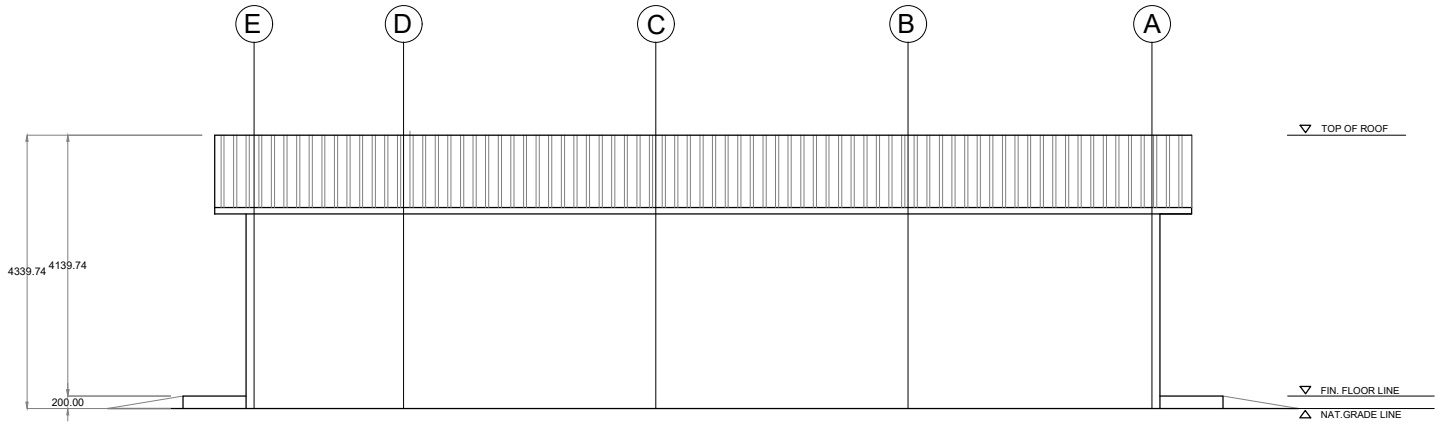



A FRONT ELEVATION
A-03 SCALE: 1:120 MTS




B REAR ELEVATION
A-03 SCALE: 1:120 MTS

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|---|---|---|---|---|---|
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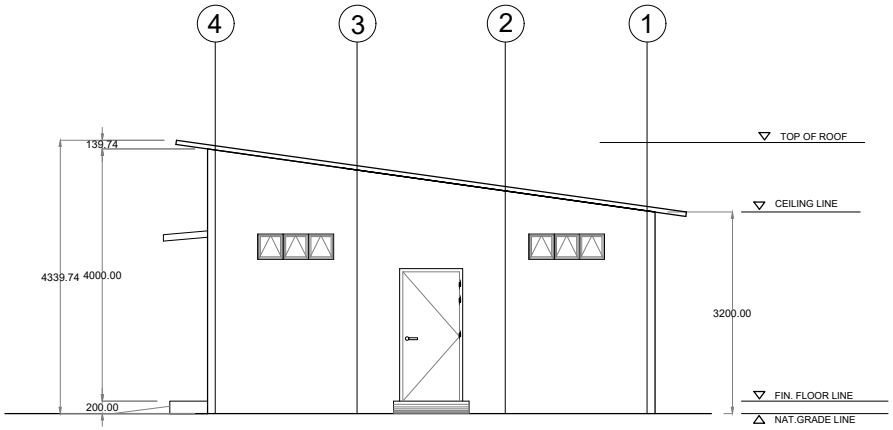
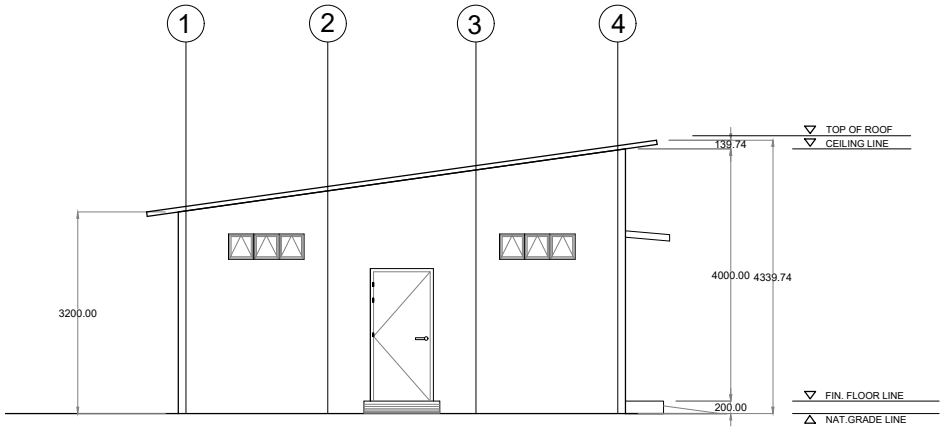



A
A-04
RIGHT-SIDE ELEVATION
SCALE: 1:120 MTS




B
A-04
LEFT-SIDE ELEVATION
SCALE: 1:120 MTS

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|---|---|---|---|---|---|
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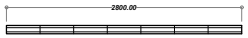
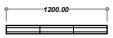
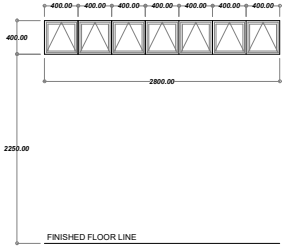
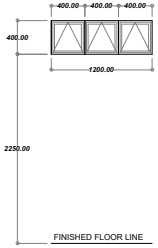
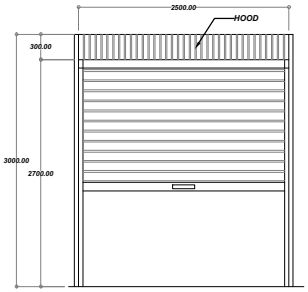
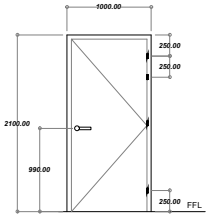
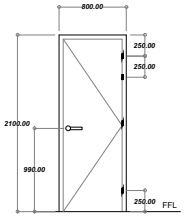
## SCHEDULE OF WINDOWS

| | | |
|---|---|---|
| PLAN |   |   |
| ELEVATION |   |   |
| MARK | W 1 | W 2 |
| LOCATION | AS SHOWN IN THE PLAN | AS SHOWN IN THE PLAN |
| QUANTITY | 1 SET | 5 SETS |
| SPECIFICATION | 1¾" x 4" POWDER COATED FRAME & JAMB AWNING WINDOW USING 1/4" THICK TINTED GLASS. | 1¾" x 4" POWDER COATED FRAME & JAMB AWNING WINDOW USING 1/4" THICK TINTED GLASS. |

## SCHEDULE OF DOORS

| | | | |
|---|---|---|---|
| PLAN |   |   |   |
| ELEVATION |   |   |   |
| MARK | D 1 | D 2 | D 3 |
| LOCATION | AS SHOWN IN THE PLAN | AS SHOWN IN THE PLAN | AS SHOWN IN THE PLAN |
| QUANTITY | 1 SET | 3 SET | 10 SETS |
| SPECIFICATION | ALUMINUM ROLL-UP DOOR | FLUSH DOOR WITH STAINLESS STEEL LIVER TYPE LOCKSET | FLUSH DOOR WITH STAINLESS STEEL LIVER TYPE LOCKSET |

# SCHEDULE OF DOORS AND WINDOWS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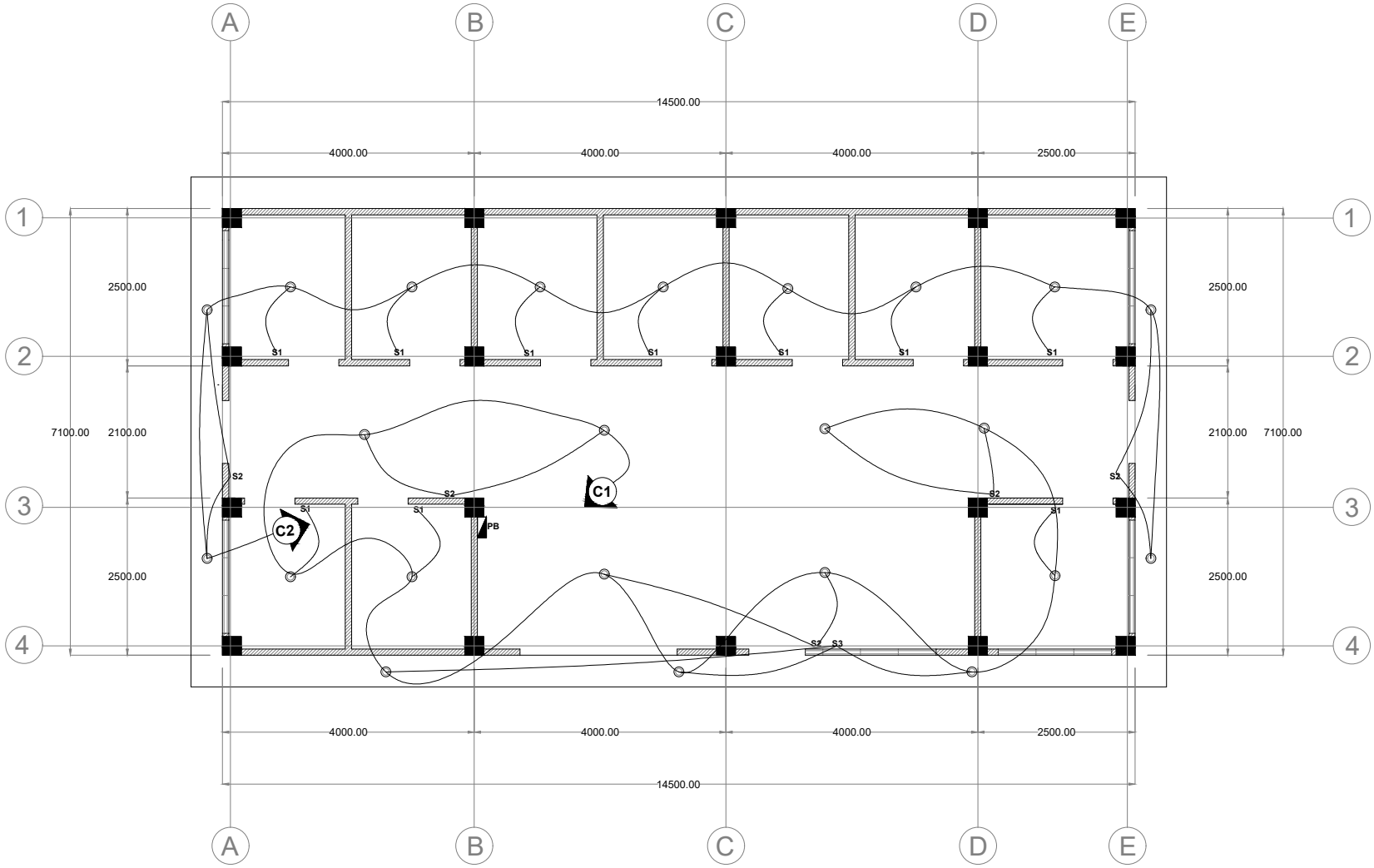
| PREPARED BY: | PROJECT TITLE: | OWNER: | APPROVED AS PER PLAN: | SHEET CONTENT: | SHEET NO: |
|---|---|---|---|---|---|
| AR. SARAH JANE G. HERNANI,uap<br>ARCHITECT | PROPOSED HAZARDOUS WASTE STORAGE FACILITY AT SOGOD CAMPUS | SOUTHERN LEYTE STATE UNIVERSITY | PROSE IVY G. YEPES, Ed.D<br>UNIVERSITY PRESIDENT | AS SHOWN | A-05 |
| | LOCATION: SLSU-MAIN CAMPUS, SAN ROQUE, SOGOD SOUTHERN LEYTE | ADDRESS: SOGOD SOUTHERN LEYTE | | CHECKED: / DRAWN: / SCALE: AS SHOWN<br>APPROVED: / DATE: | |




# A LIGHTING LAYOUT PLAN

E-01 SCALE: 1:100 MTS

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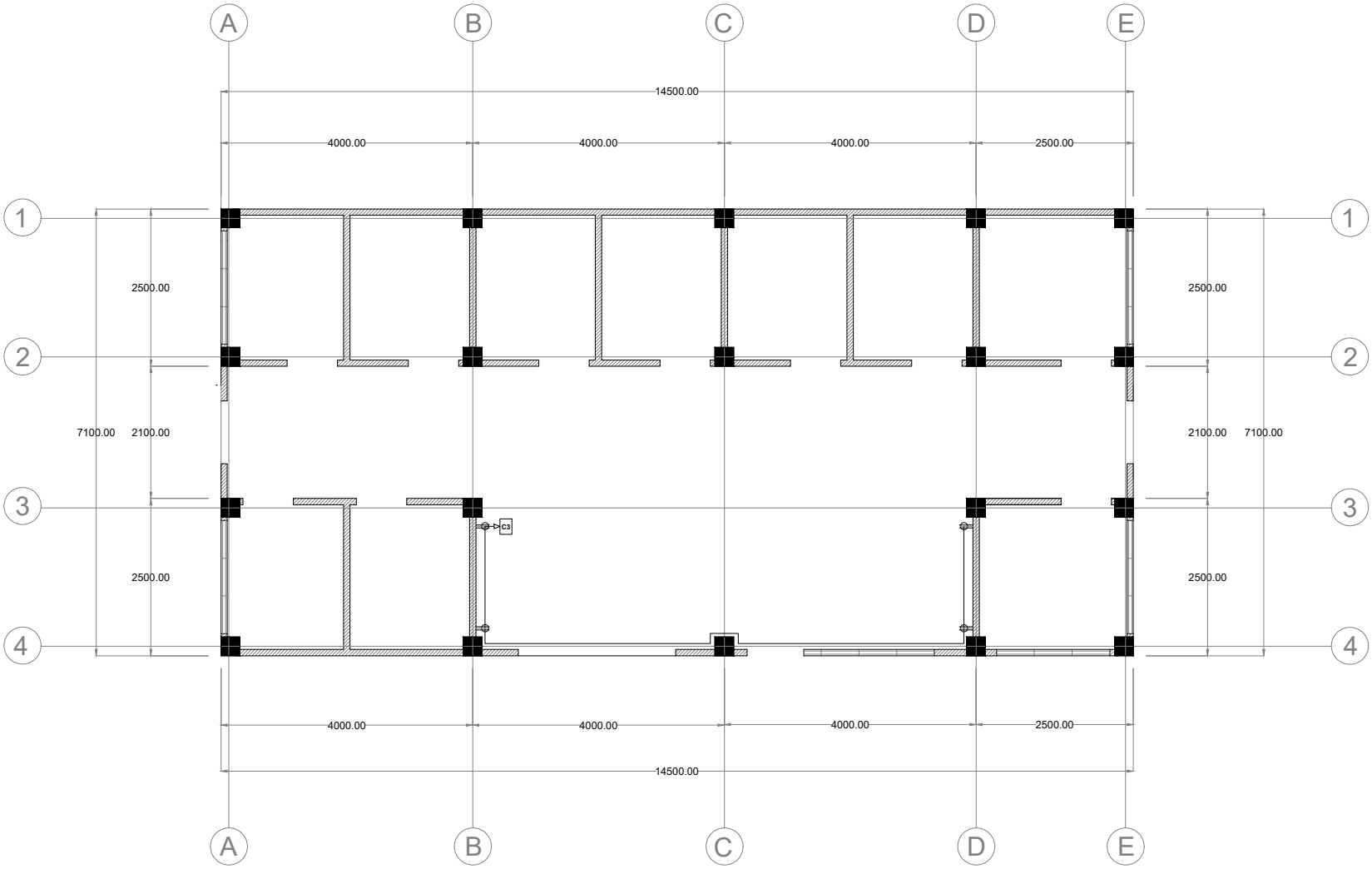


# A POWER LAYOUT PLAN

E-02 SCALE: 1:100 MTS

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|---|---|---|---|---|---|
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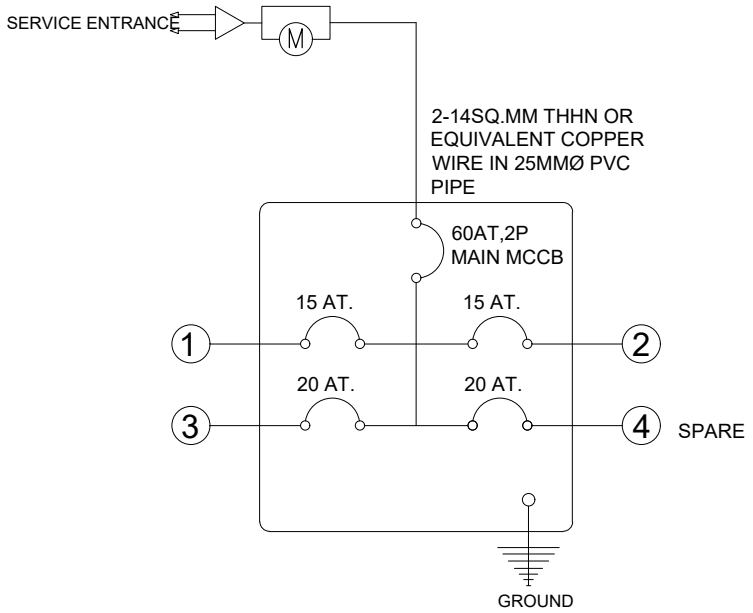
## GENERAL NOTES

1. ALL ELECTRICAL WORKS AND INSTALLATION HEREIN, SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, REQUIREMENTS OF THE LOCAL POWER COMPANY, RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITIES.
2. ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTE BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF DULY REGISTERED MASTER ELECTRICIAN OR ELECTRICAL ENGINER.
3. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO POWER SUPPLY.
4. THE TYPE OF POWER TO BE SUPPLIED SHALL BE, 220VAC, SINGLE PHASE, TWO WIRE PLUS GROUND, 60 HERTZ.
5. UNLESS OTHERWISE SPECIFIED, THE MINIMUM SIZE OF WIRE SHALL BE 3.5 SQMM THHN/THWN AND THE CONDUIT SHALL BE 15 mmØ RSC AND 20 mmØ uPVC.
6. ALL MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR THE LOCATION AND PURPOSE.
7. UNLESS OTHERWISE INDICATE ON THE DRAWING, POLYVINYL CHLORIDE (PVC) CONDUIT SHALL BE USED FOR EMBEDDED WIRING AND RIGID STEEL CONDUIT (RSC) FOR EXPOSED WIRING.
8. ALL WIRE SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN/THWN" UNLESS OTHERWISE INDICATED IN THE PLANS. THE MINIMUM SIZE FOR POWER AND LIGHTING SHALL BE 3.5sqmm AND SHALL BE MANUFACTURED BY PHELPS DODGE OR DURAFLEX OR WITH ISO CERTIFICATES.
9. ALL CIRCUIT BOXES SHALL BE GALVANIZED GAGE NO. 16, DEEP TYPE WITH FACTORY KNOCKOUTS .
10. THE CIRCUIT BREAKERS SHALL BE WITH ISO CERTIFICATESAND SHALL BE BOLT-ON TYPE WITH UL LISTED ENCLUSURE.
11. ALL MOUNTING HEIGHTS ARE SUBJECT TO ENGINEER'S APPROVAL PRIOR TO INSTALLATION.
12. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) FOR ALL CONVENIENCE OUTLET LOCATED IN THE LAUNDRY AREA OR IN OUTDOOR USE AS WELL AS IN THE LAVATORY COUNTER AREA.
13. CONDUCT INSULATION RESISTANCE TEST PRIOR FOR TERMINATION OF DEVICES AS WELL AS OTHER NECESSARY ELECTRICAL TESTING STANDARDS.
14. SWITCHES SHALL BE FLUSH MOUNTED AND LOCATED 200mm FROM THE EDGE OF THE DOOR JAMP TO THE CENTER OF THE SWITCH OR 150mm FROM THE EDGE OF THE DOOR JAMP TO THE EDGE OF THE SWITCH.
15. NO REVISION IN THE DESIGN SHALL BE DONE WITHOUT PRIOR KNOWLEDGE AND APPROVAL OF THE DESIGNER.
16. CONTRACTOR WILL PROVIDE THE OWNER WITH TWO(2) SETS OF AS-BUILT PLANS WITH E-FILE AND DULY SIGNED BY THEIR REGISTERED LICENSED ELECTRICAL ENGINEER.

SCHEDULE OF LOADS

| CKT.NO. | LOAD DESCRIPTION | OUTLET SWITCHES | | | | | | PHASE | PHASE | VOLT | WATTS | AMPS. | CIRCUIT BREAKER | SIZE OF WIRE & CONDUIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L.O | C.O | S1 | S2 | S3 | S3W | | | | | | | |
| 1 | LIGHTING OUTLET | 12 | | 3 | 3 | 1 | | 1 | 1 | 220 | 20 | 1.09 | 15AT, 15AF, 2P | NO. 14 AWG. STRANDED WIRE |
| 2 | LIGHTING OUTLET | 11 | | 7 | 2 | | | 1 | 1 | 220 | 20 | 1 | 15AT, 15AF, 2P | NO. 14 AWG. STRANDED WIRE |
| 3 | CONVENIENCE OUTLET | | 4 | | | | | 1 | 1 | 220 | 360 | 6.55 | 20AT, 20AF, 2P | NO. 12 AWG. STRANDED WIRE |
| 4 | SPARE | | | | | | | | | | | | SPARE | |
| TOTAL | | 23 | 4 | | | | | | | | | 8.64 | | |




# SINGLE LINE DIAGRAM

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|---|---|---|---|---|---|
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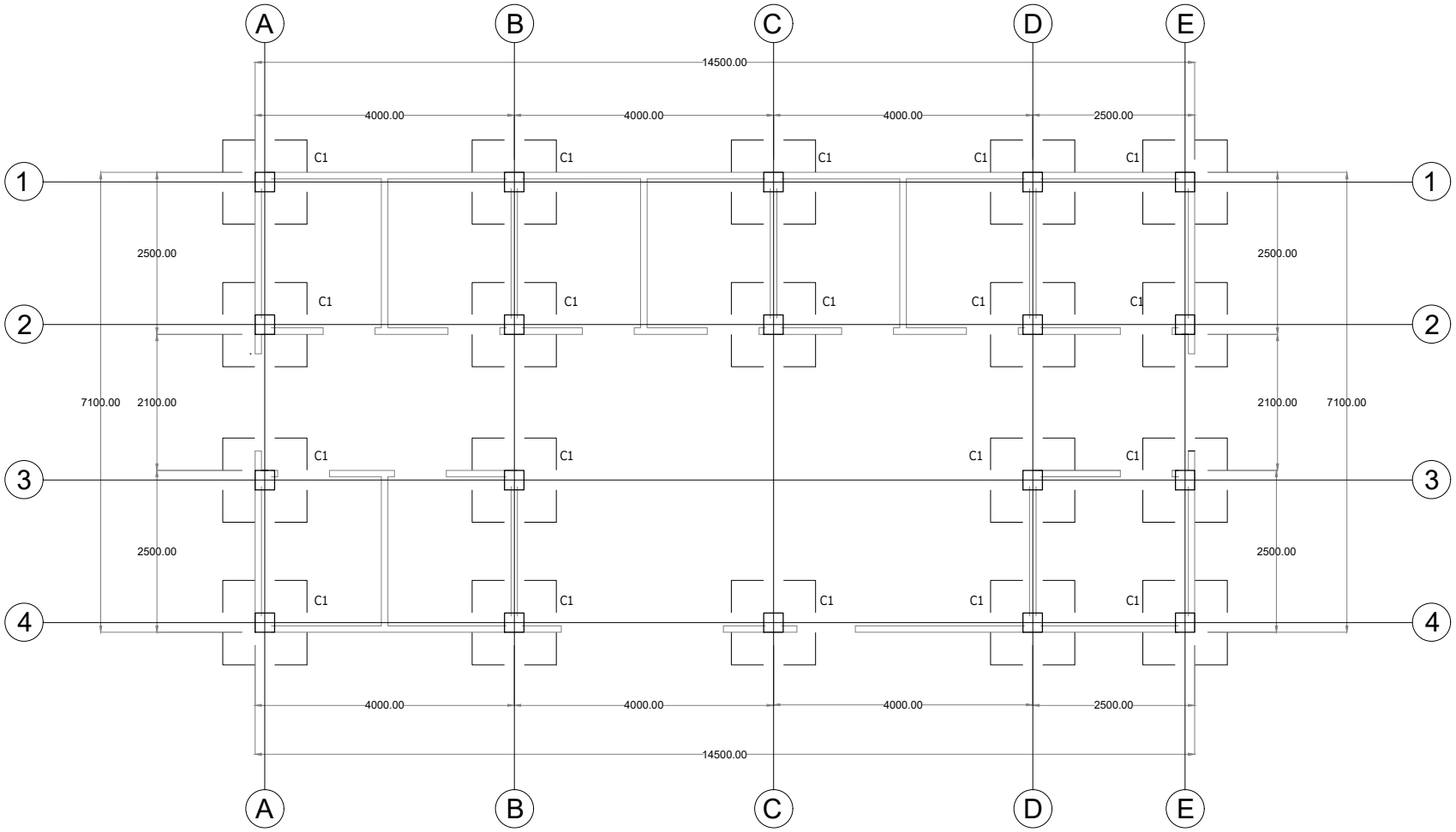


# A FOUNDATION PLAN

S-01 SCALE: 1:100 MTS

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|---|---|---|---|---|---|
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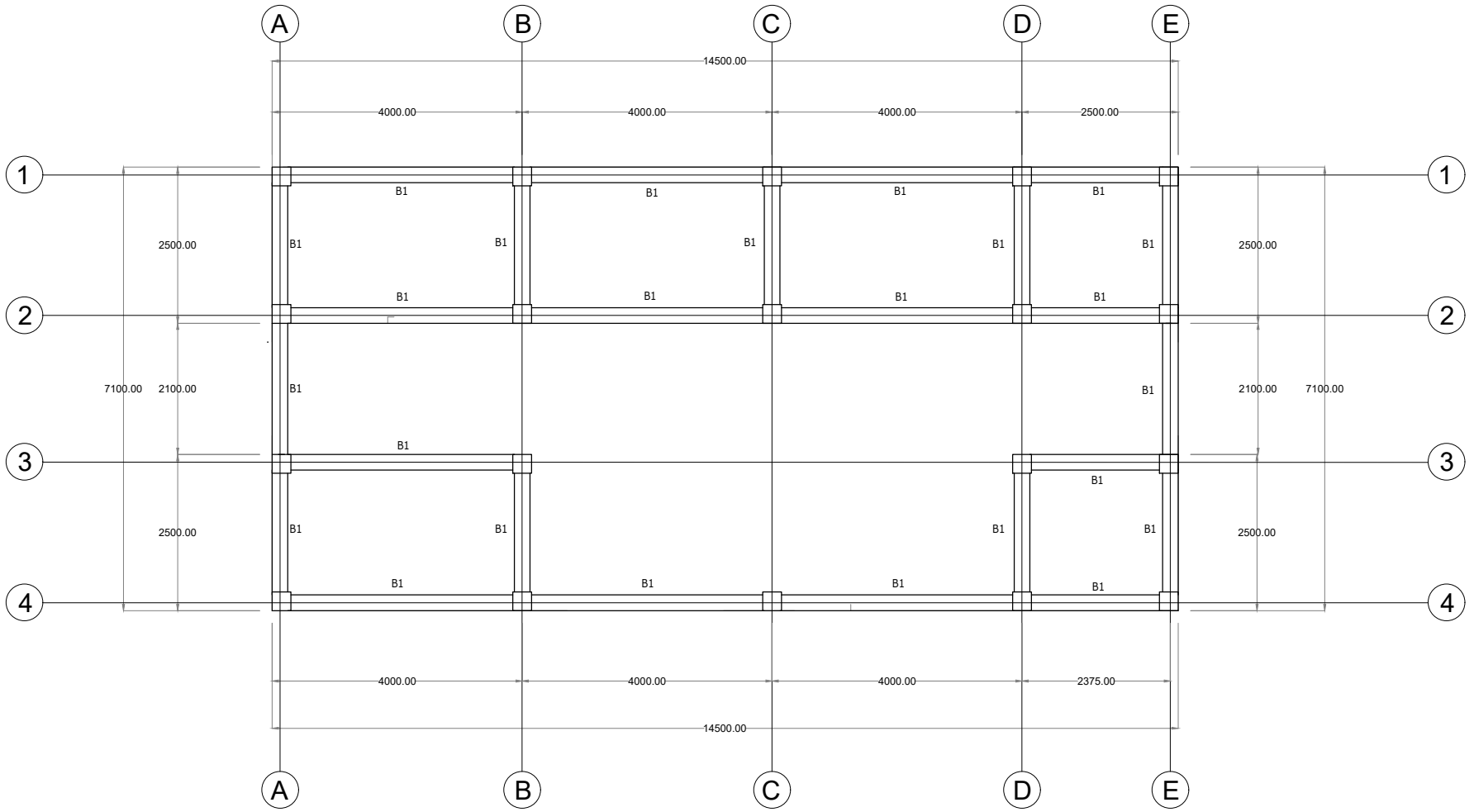


A
S-02

# BEAM LAYOUT PLAN

SCALE: 1:100 MTS

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|---|---|---|---|---|---|
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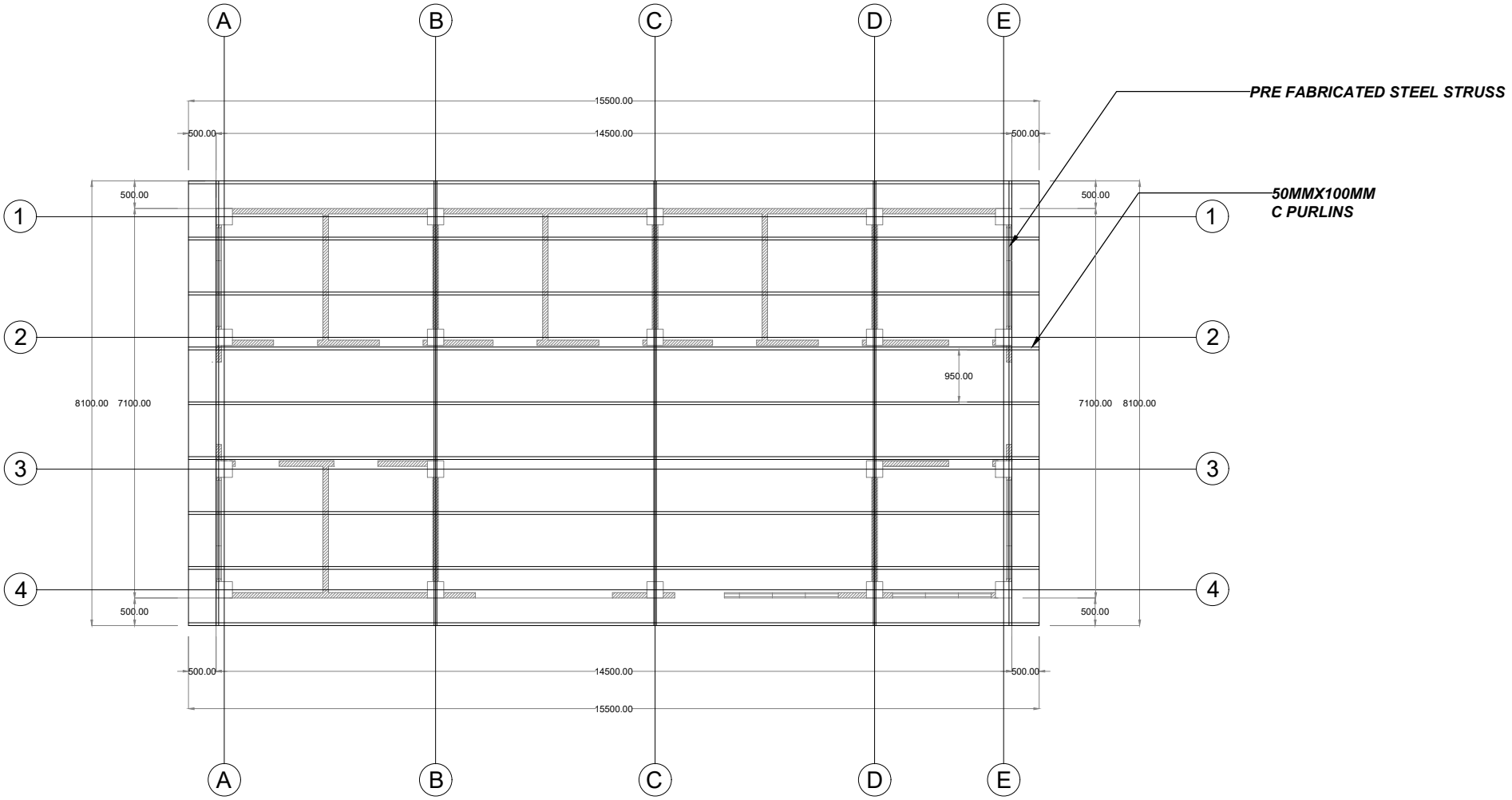


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S-03

# ROOF FRAMING PLAN

SCALE: 1:110 MTS

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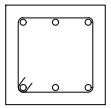
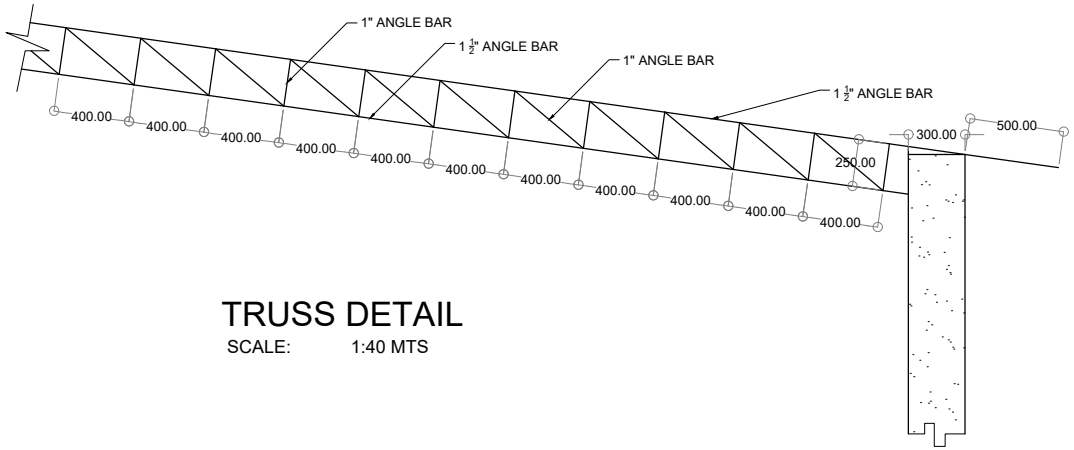
***SCHEDULE OF REINFORCED CONCRETE COLUMNS***

| MARK | FOUNDATION TO SECOND FLOOR BEAM |
|---|---|
| C1 |   |
| SIZE | 300 mm x 300 mm |
| VERT. BARS | 9 - 20MMØ |
| TIES | 12@0.05,12MMØ, 10@0.10, 12MMØ |
| | REST @ 0.15M |




TRUSS DETAIL

SCALE: 1:40 MTS

***SCHEDULE OF FOOTINGS***

| MARK | FOOTING DIMENSIONS | | | EMBEDMENT | TOP BARS | | BOTTOM BARS | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | WIDTH, B (m) | LENGTH, L (m) | THICKNESS t (m) | DEPTH (m) (FROM NGL) | BARS ALONG WIDTH, B | BARS ALONG LENGTH, L | BARS ALONG WIDTH, B | BARS ALONG LENGTH, L | |
| F1 | 1.20 | 1.20 | 0.30 | 2.00 | NONE | NONE | 9 - 16MM Ø | 9 - 16MM Ø | ISOLATED FOOTING |

***MATERIAL SPECIFICATIONS:***

*fc' = 21 MPa (3,000 psi)*
*fy = 276 MPa (40,000 psi) FOR 12MMØ BARS AND BELOW*
*fy = 414 MPa (60,000 psi) FOR 16MMØ BARS AND ABOVE*

***ALLOWABLE SOIL PRESSURE:***

*qa = 144 kPa (3,000 psf)*

***SCHEDULE OF BEAMS***

| BEAM MARK | DIMENSION BxD (m.) | LEFT SUPPORT | | MIDSPAN | | RIGHT SUPPORT | | STIRRUPS |
|---|---|---|---|---|---|---|---|---|
| | | TOP BARS | BOT. BARS | TOP BARS | BOT. BARS | TOP BARS | BOT. BARS | |
| BEAM | | | | | | | | |
| B-1 | 0.20 x 0.30 | 3-20mm | 2-20mm | 2-20mm | 3-20mm | 3-20mm | 2-20mm | 12mmØ STIRRUPS 4 @ 0.05, 5 @ 0.10, REST @ 0.15m O.C. |

| | | | | | |
|---|---|---|---|---|---|
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# GENERAL CONSTRUCTION NOTES

TABLE 'A'
TENSION BARS
EMBEDMENT LENGTHS AND LAPPED SPLICED IN MILLIMETERS

| BAR SIZE (DEFORMED) | fc'= 20.7MPa(3000psi) | | fc'= 27.6MPa(4000psi) | |
|---|---|---|---|---|
| | EMBEDMENT | LAPPED | EMBEDMENT | LAPPED |
| 10mm ø | 300 | 300 | 300 | 300 |
| 12mm ø | 300 | 300 | 300 | 300 |
| 16mm ø | 300 | 400 | 300 | 400 |
| 20mm ø | 400 | 550 | 350 | 500 |
| 25mm ø | 600 | 800 | 550 | 750 |
| 28mm ø | 750 | 1000 | 650 | 850 |
| 32mm ø | 950 | 1300 | 850 | 1100 |

NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2

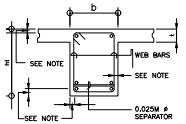
TABLE 'B'
COMPRESSION BARS
EMBEDMENT LENGTHS AND LAPPED SPLICED IN MILLIMETERS

| BAR SIZE (DEFORMED) | fc'= 20.7MPa(3000psi) | | fc'= 27.6MPa(4000psi) | |
|---|---|---|---|---|
| | EMBEDMENT | LAPPED | EMBEDMENT | LAPPED |
| 10mm ø | 225 | 300 | 200 | 300 |
| 12mm ø | 275 | 300 | 250 | 300 |
| 16mm ø | 350 | 400 | 325 | 400 |
| 20mm ø | 450 | 500 | 475 | 500 |
| 25mm ø | 550 | 625 | 550 | 625 |
| 28mm ø | 625 | 675 | 625 | 675 |
| 32mm ø | 700 | 775 | 700 | 775 |

NOTE : TOP PLAIN BARS , MULTIPLY VALUE BY 2

VALUES GIVEN ABOVE CAN ALSO BE USED FOR COLUMNS.

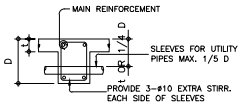
2. IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.
3. IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mmø BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
4. MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIG. B–2 UNLESS SPECIFIED ELSEWHERE.




NOTE 1

20 mm CLEAR FOR JOIST
40 mm CLEAR FOR BEAMS AND GIRDERS

FIG. B–2




TYP. DET. FOR SLEEVES THRU CONCRETE BEAM

FIG. B–3

5. WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINF–ORCING BAR SHALL BE SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.
6. GENERALLY NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR, SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B'. WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125 % OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

## NOTES ON CONCRETE HOLLOW BLOCK WALLS

1. UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
2. PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4–12mm WITH 6mmø TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

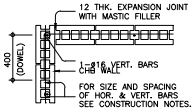
SCHEDULE OF CONCRETE HOLLOW BLOCK AND CERAMIC BLOCK REINFORCEMENT

| BLOCK THICKNESS | REINFORCEMENT | | NOTES |
|---|---|---|---|
| | HORIZONTAL | VERTICAL | |
| 75 mm | 10mmø @ 600mm O.C. | 10mmø @ 600mmm O.C. | A. MINIMUM LAPS AT SPLICE = 0.25M<br>B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG<br>C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOR. REINFORCEMENTS SHALL BE PROVIDED |
| 125 mm | 10mmø @ 600mm O.C. | 10mmø @ 600mmm O.C. | |
| 150 mm | 10mmø @ 600mm O.C. | 10mmø @ 600mmm O.C. | |
| 200 mm | 12mmø @ 600mm O.C. | 12mmø @ 600mmm O.C. | |

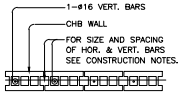
## REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

LINTELS IN BLOCK WALLS

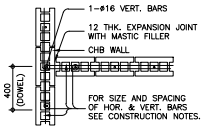
| CLEAR SPAN ("L") | TOTAL LENGTH (L+0.40M) | MIN. fc' (MPa) | HEIGHT OF LINTEL (MM) | REINFORCEMENT | | |
|---|---|---|---|---|---|---|
| | | | | BOTTOM | TOP | STIRRUPS |
| 1.20M<br>1.50M<br>1.80M | 1.60M<br>1.90M<br>2.20M | 14.0 | 200<br>200<br>200 | 1–ø10<br>1–ø10<br>1–ø12 | 1–ø10<br>1–ø10<br>1–ø10 | ø6mm @ 200mm<br>ø6mm @ 200mm<br>ø6mm @ 200mm |
| 2.10M<br>2.40M<br>2.70M | 2.50M<br>2.90M<br>3.10M | 17.0 | 250<br>250<br>250 | 1–ø12<br>1–ø12<br>1–ø16 | 1–ø10<br>1–ø10<br>1–ø12 | ø6mm @ 200mm<br>ø6mm @ 200mm<br>ø10mm @ 200mm |
| 3.00<br>3.30<br>3.60 | 3.40M<br>3.70M<br>4.00 | 20.0 | 300<br>300<br>300 | 1–ø16<br>1–ø16<br>1–ø20 | 1–ø12<br>1–ø12<br>1–ø12 | ø10mm @ 200mm<br>ø10mm @ 200mm<br>ø10mm @ 200mm |



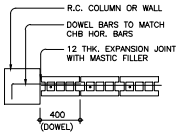

CORNER WALL




OPENING OR END WALL

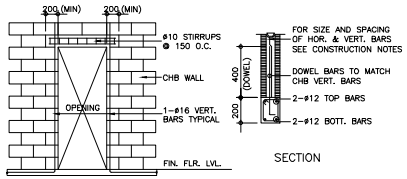



INTERSECTION WALL




INTERSECTING R.C. COL. OR WALL

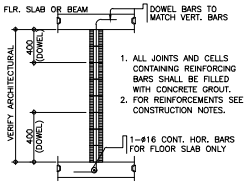
## TYPICAL CONNECTION DETAIL OF MASONRY WALL



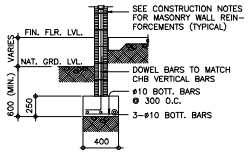

ELEVATION

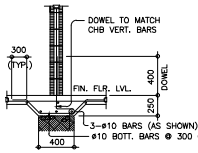
SECTION

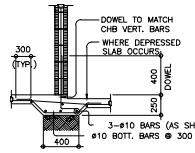
## TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



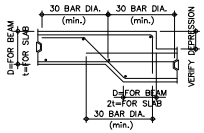

TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS



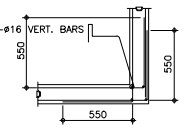



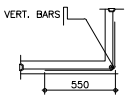




TYPICAL CHB FOOTING DETAILS ( WHERE APPLICABLE )




TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT




TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS

## NOTES ON WELDS

1. USE E70xx ELECTRODES FOR ALL MEMBERS WELDED.
2. WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

## NOTES ON STRUCTURAL STEEL

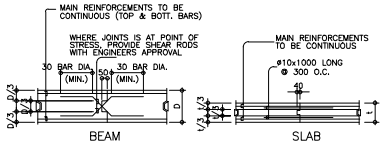
1. STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
2. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
3. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
4. UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM AWS E60 ELECTRODES.
5. ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.

## NOTES ON EMBEDED PIPES

A. ALL EMBEDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
B. NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
C. NO PIPES SHALL BE EMBEDDED IN COLUMNS.

## NOTES ON CONSTRUCTION JOINTS IN CONCRETE

1. WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED. SHEAR KEY SHALL BE PROVIDED AT THE JOINT.




TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.

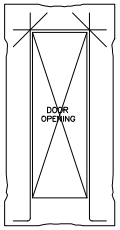
## NOTES ON CONCRETE WALLS

1. ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

| WALL THICKNESS | REINFORCEMENT | | | VERTICAL SECTION |
|---|---|---|---|---|
| | HORIZONTAL | VERTICAL | REMARKS | |
| 100mm | ø10mm @ 250mm O.C. | ø10mm @ 300mm O.C. | HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGERED OUT | VERT. BARS / HORIZ. BARS |
| 125mm | ø10mm @ 200mm O.C. | ø10mm @ 250mm O.C. | | |
| 150mm | ø12mm @ 250mm O.C. | ø12mm @ 300mm O.C. | | |

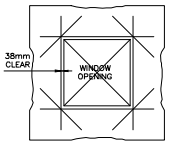
REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.

2. CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M.O.C.
3. UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2–20mmø BARS FOR 225mm, 200mm, 175mm, 150mm, USE 2–16mmø. FOR 125mm AND 100mm WALLS, USE 2–12mmø BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U–FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED (SEE FIG.1)



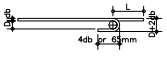

NOTE:
PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENING

SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.




## NOTES OF STIRRUPS

1. ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
2. REINFORCEMENT PARCIALLY EMBEDED IN CONCRETE SHALL NOT BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
3. TIES & CLOSE STIRRUPS MUST BE BENT AT 135°.

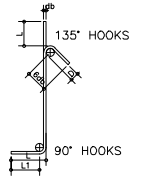



180° END HOOKS


90° END HOOKS

MAIN BAR END HOOKS
(ALL GRADES)

| BAR SIZE (DEFORMED) | DIAMETER (mm) | 180° HOOK | | 90° HOOK |
|---|---|---|---|---|
| | | D+2db | L | L |
| 10mm ø | 60 | 75 | 125 | 150 |
| 12mm ø | 75 | 100 | 150 | 200 |
| 16mm ø | 95 | 125 | 175 | 250 |
| 20mm ø | 115 | 150 | 200 | 300 |
| 25mm ø | 150 | 200 | 230 | 450 |
| 28mm ø | 240 | 300 | 350 | 550 |
| 32mm ø | 300 | 335 | 450 | 600 |




STIRRUP AND TIE HOOKS
(ALL GRADES)

| BAR SIZE (DEFORMED) | DIAMETER (mm) | 180° HOOK | | 90° HOOK |
|---|---|---|---|---|
| | | D+2db | L | L |
| 10mm ø | 40 | 125 | 85 | 100 |
| 12mm ø | 50 | 165 | 115 | 115 |
| 16mm ø | 65 | 200 | 140 | 150 |
| 20mm ø | 115 | 250 | 165 | 300 |
| 25mm ø | 150 | 365 | 230 | 405 |

| | | | | | | |
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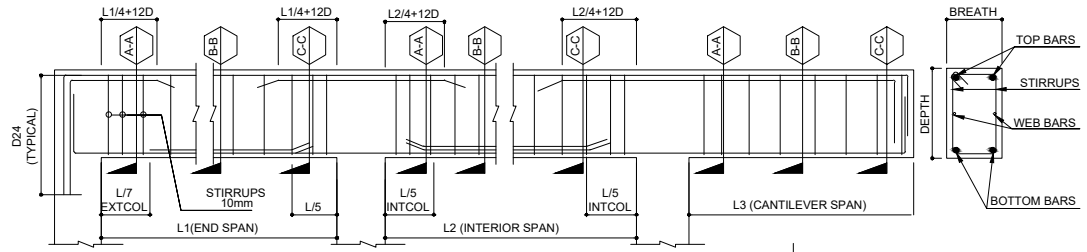
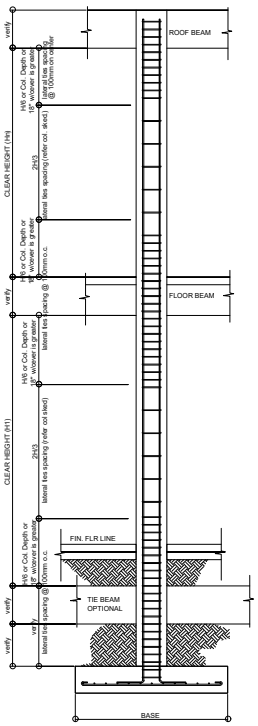
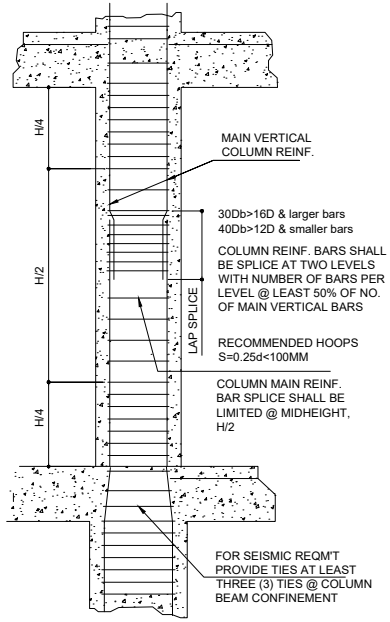


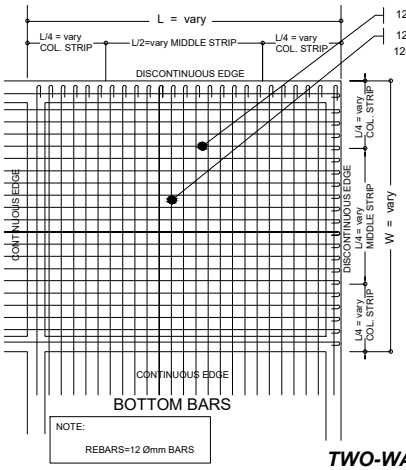

***TYPICAL BEAM ELEVATION***




***TYPICAL COLUMN ELEVATION***

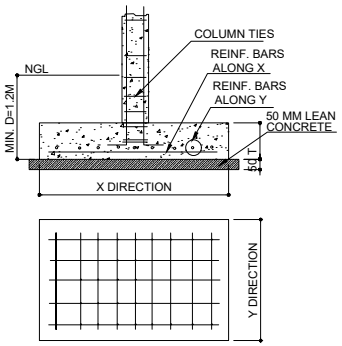



***TYPICAL COLUMN ELEVATION***




***TWO-WAY SLAB DETAIL***

NOT TO SCALE




***TYPICAL FOOTING DETAIL***

| | | | | | |
|---|---|---|---|---|---|
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