

CONSTRUCTION PROJECT FILE

- FLOOR PLAN
- COLUMN LAYOUT
- COLUMN REDUCTION CHART
- FOUNDATION LAYOUT
- FOUNDATION SECTIONS
- PLINTH BEAM & SECTIONS
- BEAM LAYOUT
- BEAM REDUCTION CHART
- BEAM SECTIONS
- DOOR-WINDOW DESIGNS
- ELECTRICAL LAYOUT
- PLUMBING LAYOUT



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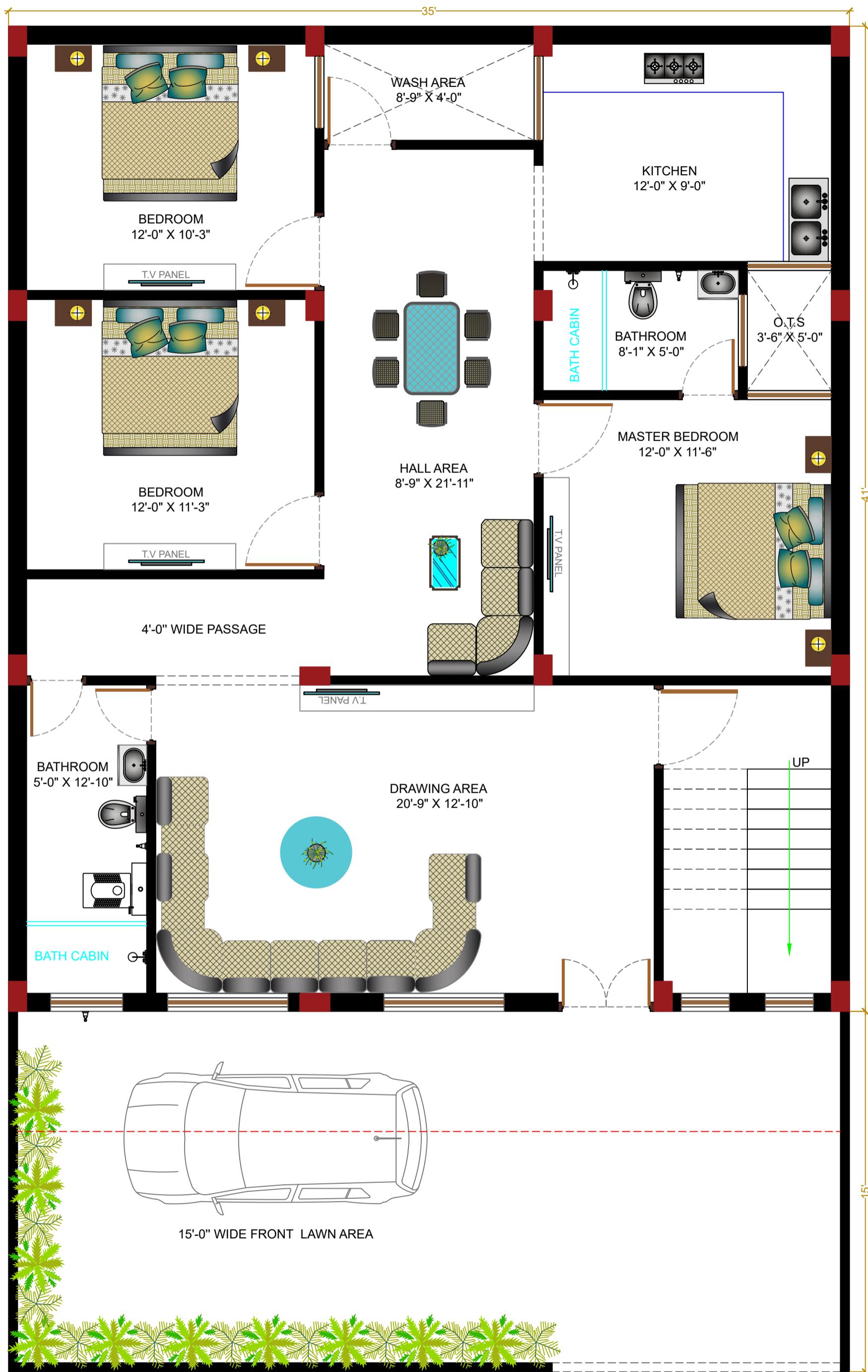
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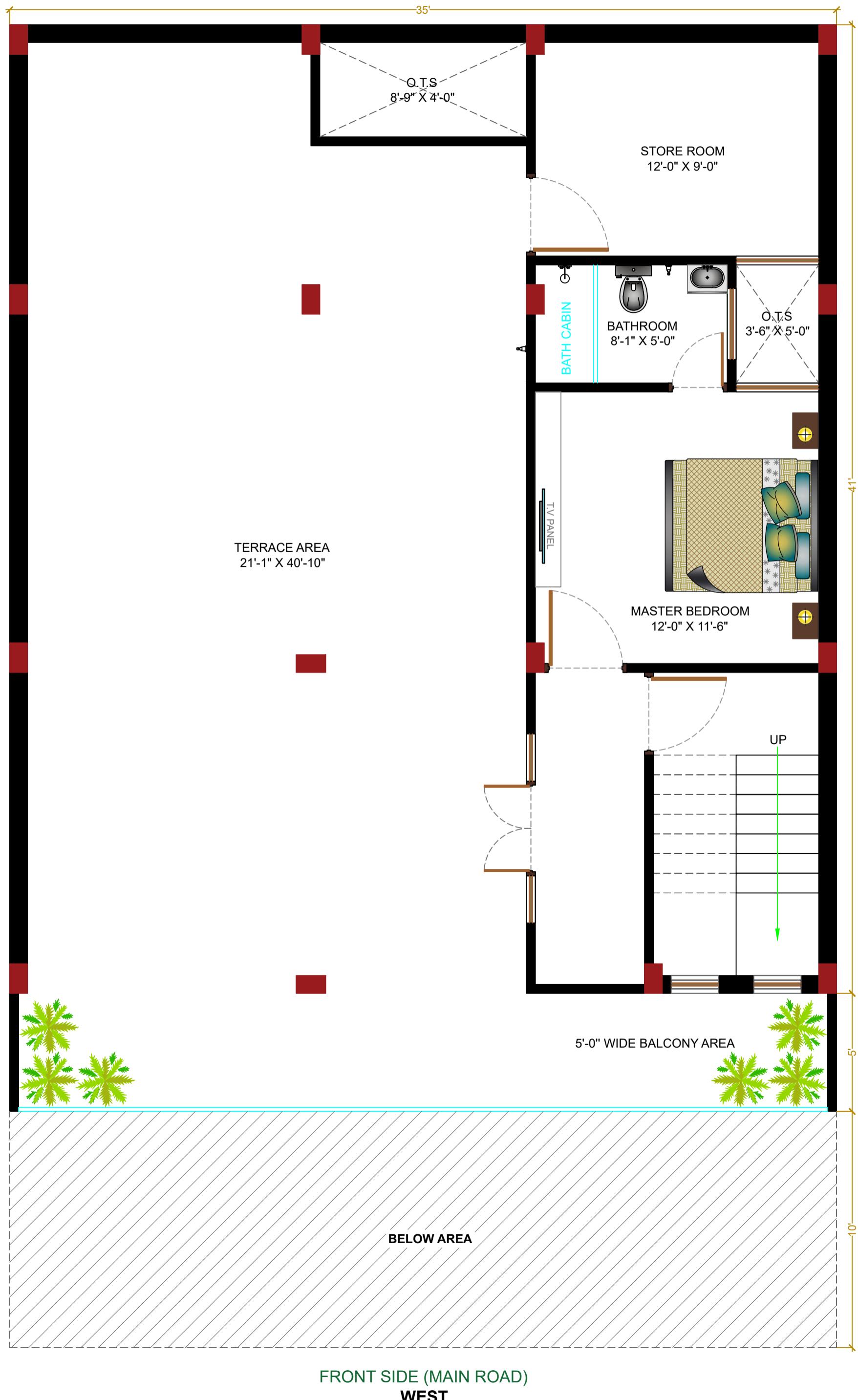
ARCHITECTURE PLAN

GROUND FLOOR LAYOUT
BACK SIDE



FRONT SIDE (MAIN ROAD)
WEST

FIRST FLOOR LAYOUT
BACK SIDE



PLEASE READ BEFORE EXECUTING THE WORK:-

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- 2) DO NOT SCALE WORK TO DIMENSIONS ONLY.
- 3) ALL REINFORCEMENT STEEL SHOULD BE TMT GRADE Fe500.
- 4) ALL CONCRETE MIX SHALL BE MACHINE MIXED AND MACHINE VIBRATED.
- 5) CHAIRS @750mm SHALL BE PROVIDED TO SUPPORT TOP REINFORCEMENT.
- 6) WATER CURING MUST BE DONE FOR ATLEAST 15 DAYS.
- 7) CLEAR COVER REINFORCEMENT SHALL BE AS FOLLOWS:-
 - (A)FOUNDATION = 2" (50mm)
 - (B)COLUMN = 1.5" (40mm)
 - (C)BEAMS = 1" (25mm)

CEMENT CONCRETE MIX

- FOOTING M20 MIX (RATIO – 1:1.5:3)
- PLINTH BEAM M20 MIX (RATIO – 1:1.5:3)
- LINTEL SLAB M20 MIX (RATIO – 1:1.5:3)
- R.C.C BEAM M20 MIX (RATIO – 1:1.5:3)
- COLUMN M25 MIX (RATIO – 1:1:2)

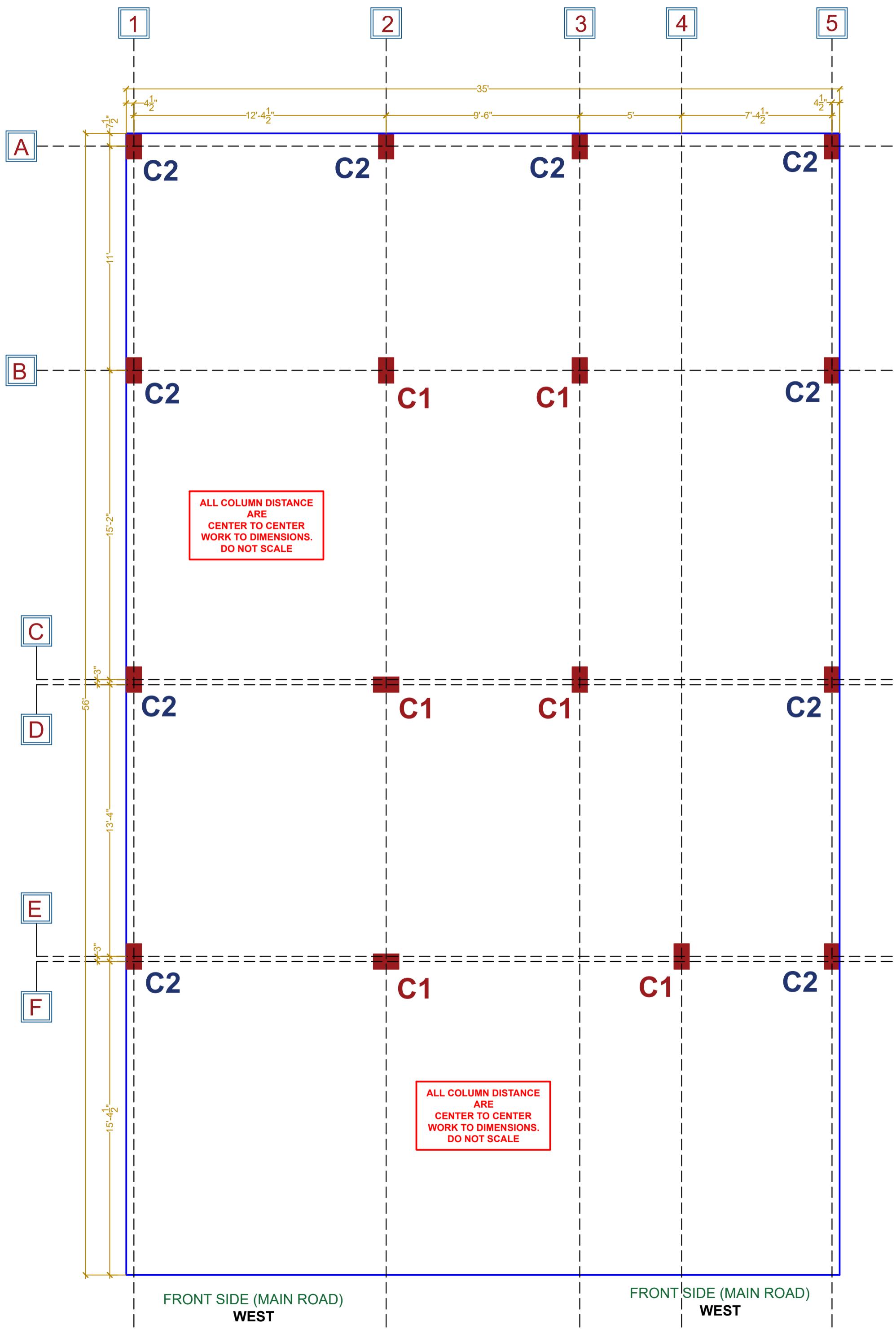
CEMENT – SAND RATIO

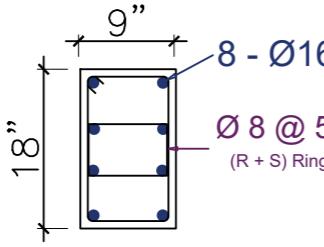
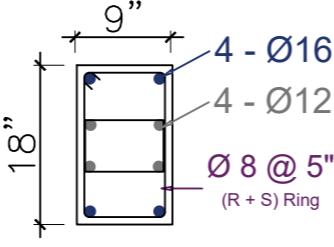
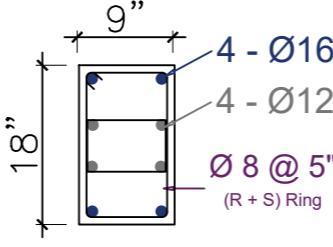
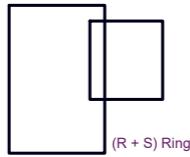
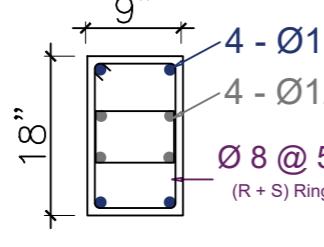
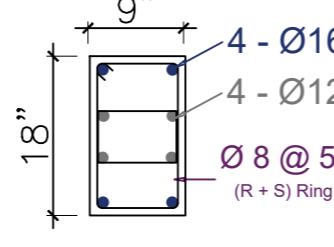
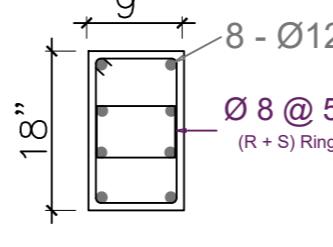
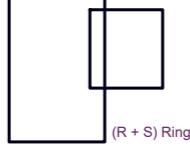
- PLASTERING
WALL = 1:6
ROOF = 1:4
- BRICK MASONRY
MIX = 1:6

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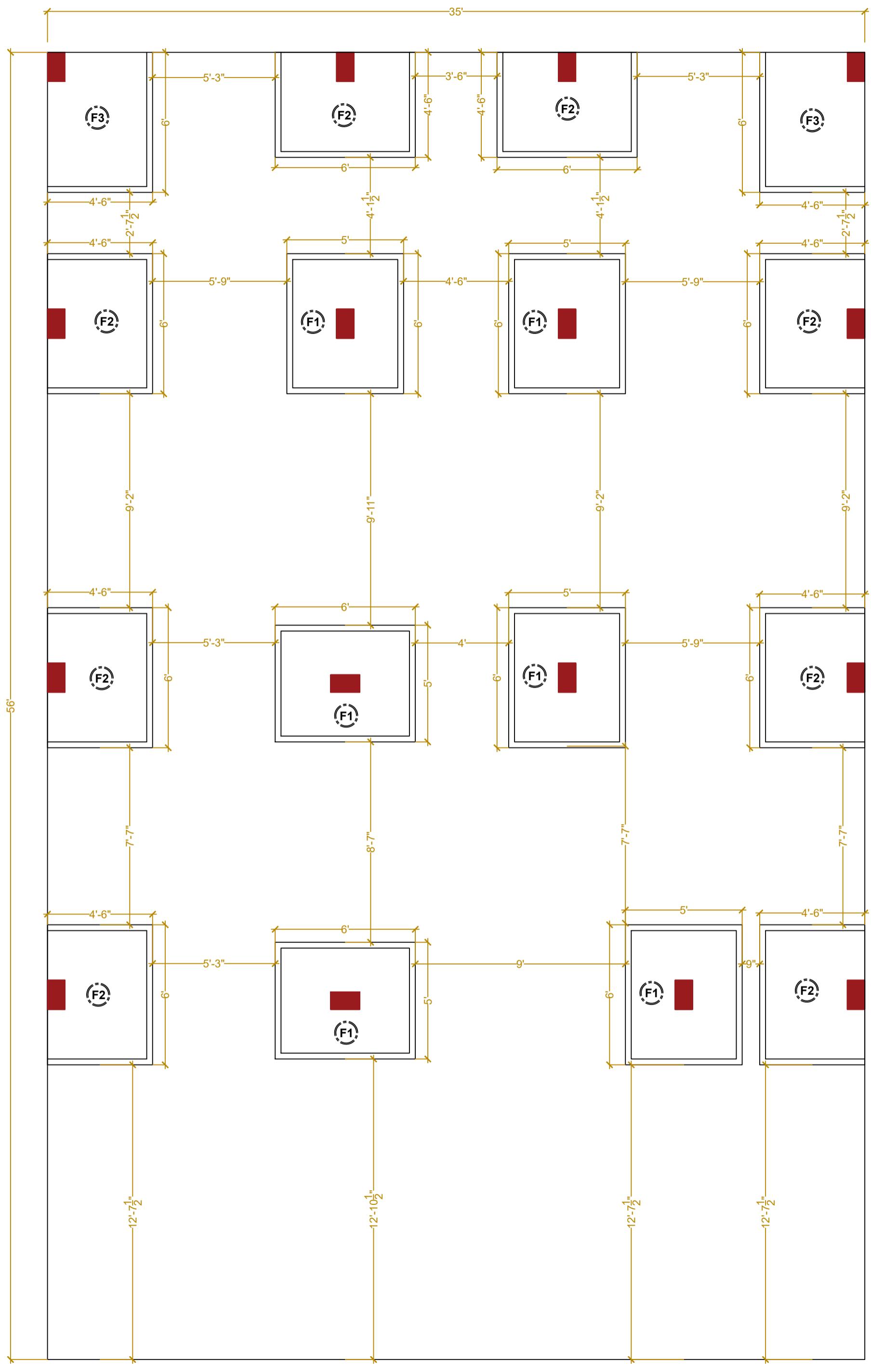
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COLUMN LAYOUT

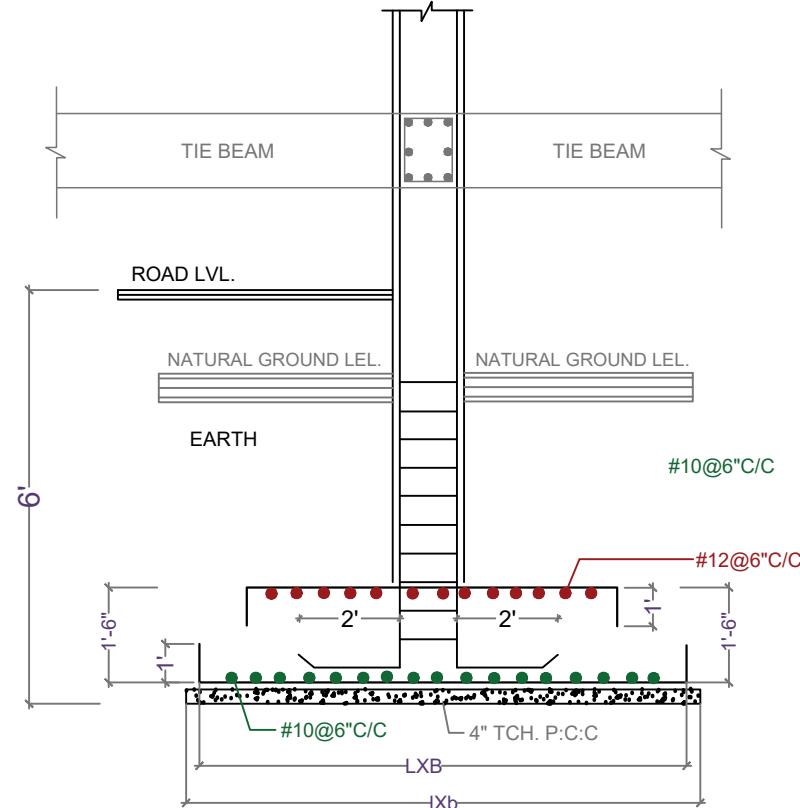


COLUMN	COLUMN REDUCTION CHART			RINGS
	GR. FLOOR	1st FLOOR	2nd FLOOR	
C1	 <p>9"</p> <p>18"</p> <p>8 - Ø16</p> <p>Ø 8 @ 5"</p> <p>(R + S) Ring</p>	 <p>9"</p> <p>18"</p> <p>4 - Ø16</p> <p>4 - Ø12</p> <p>Ø 8 @ 5"</p> <p>(R + S) Ring</p>	 <p>9"</p> <p>18"</p> <p>4 - Ø16</p> <p>4 - Ø12</p> <p>Ø 8 @ 5"</p> <p>(R + S) Ring</p>	 <p>RECTANGULAR</p> <p>SQUARE</p>
C2	 <p>9"</p> <p>18"</p> <p>4 - Ø16</p> <p>4 - Ø12</p> <p>Ø 8 @ 5"</p> <p>(R + S) Ring</p>	 <p>9"</p> <p>18"</p> <p>4 - Ø16</p> <p>4 - Ø12</p> <p>Ø 8 @ 5"</p> <p>(R + S) Ring</p>	 <p>9"</p> <p>18"</p> <p>8 - Ø12</p> <p>Ø 8 @ 5"</p> <p>(R + S) Ring</p>	 <p>RECTANGULAR</p> <p>SQUARE</p>

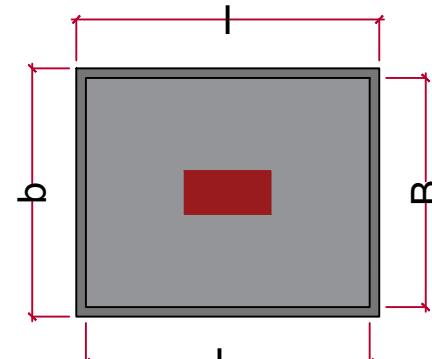
FOUNDATION LAYOUT



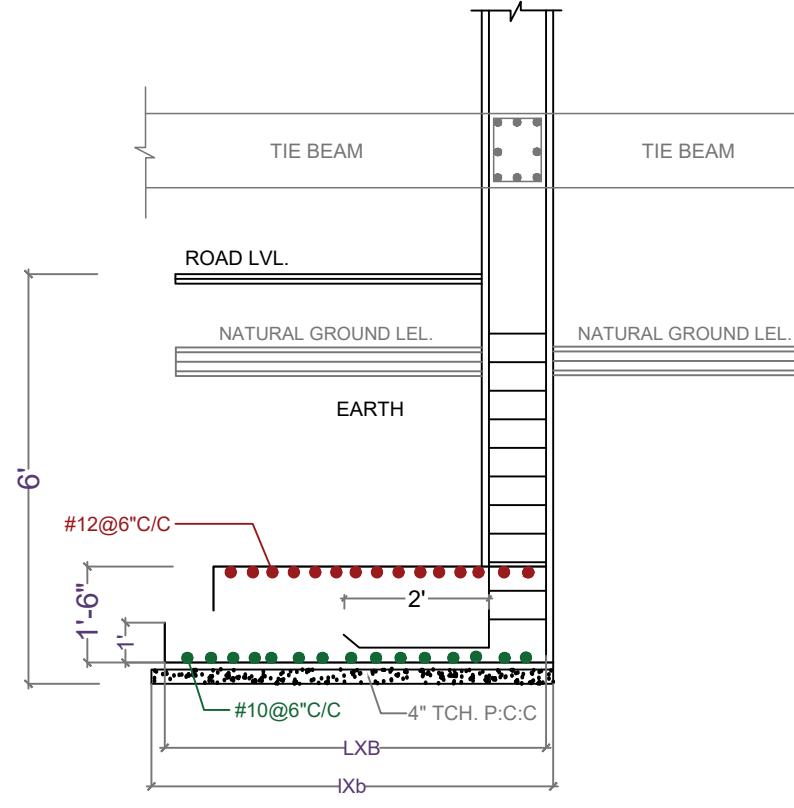
FRONT SIDE (MAIN ROAD)
WEST



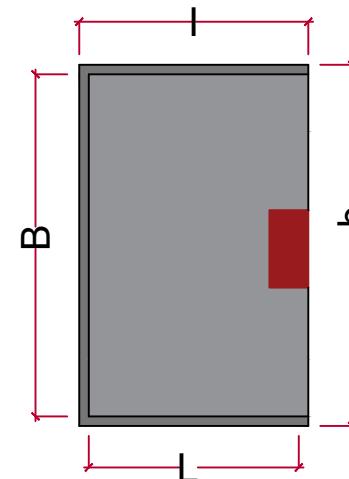
FOOTING PLAN MARKING (F1)



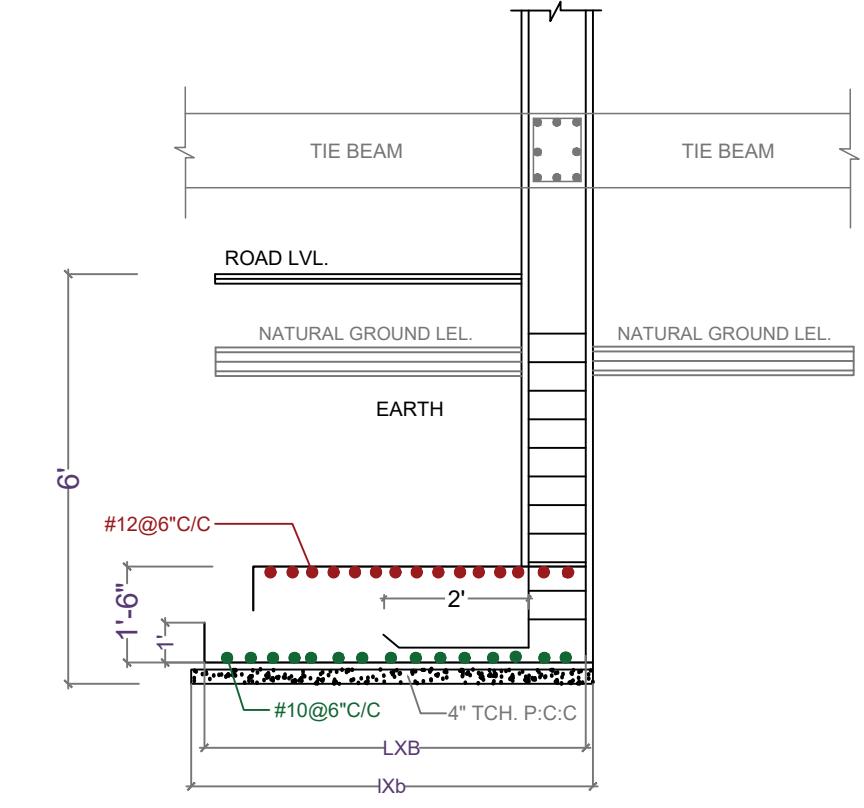
TYPICAL FOOTING PLAN



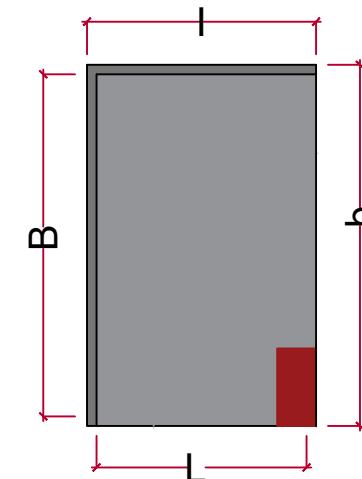
FOOTING PLAN MARKING (F2)



TYPICAL FOOTING PLAN

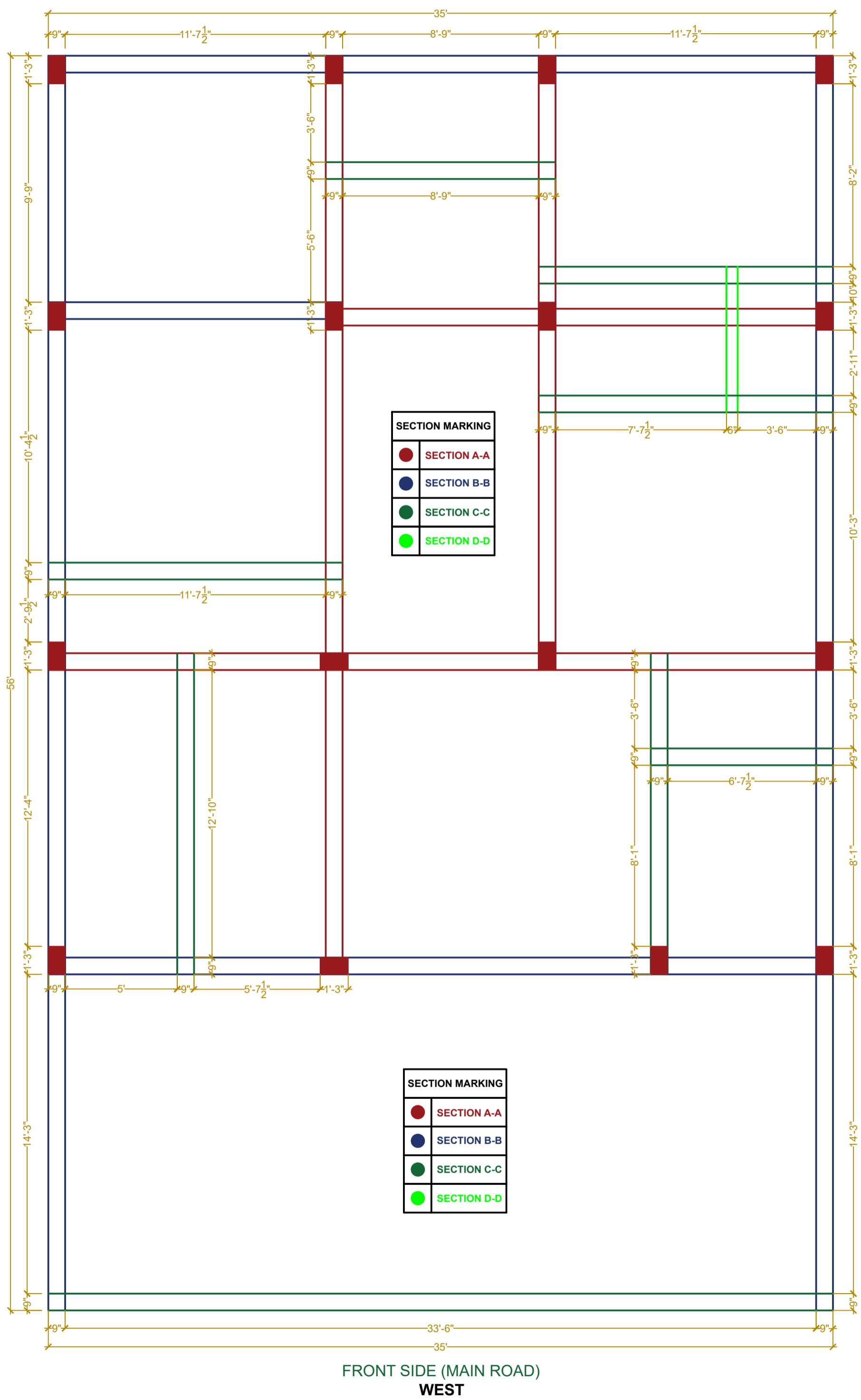


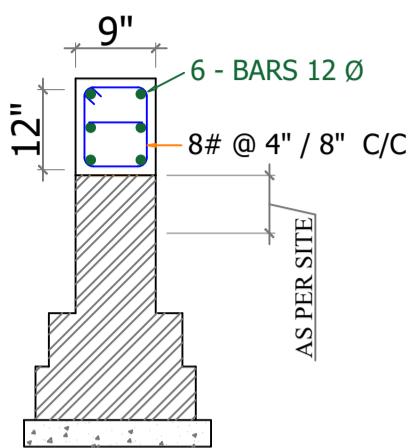
FOOTING PLAN MARKING (F3)



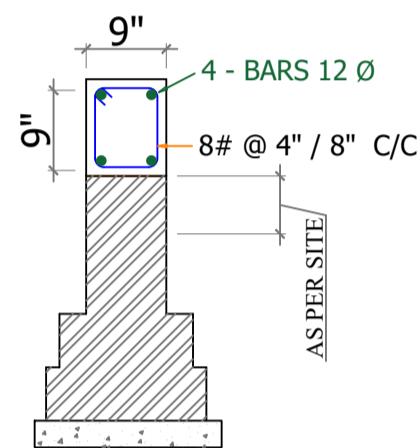
TYPICAL FOOTING PLAN

PLINTH - BEAM LAYOUT

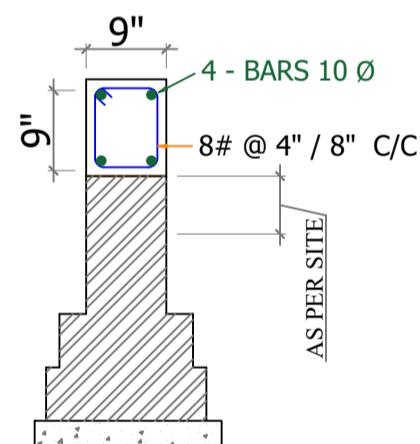




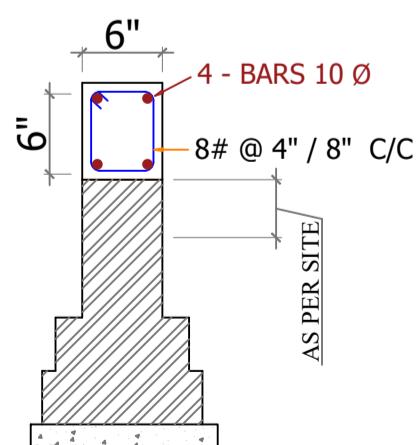
SECTION A-A



SECTION B-B

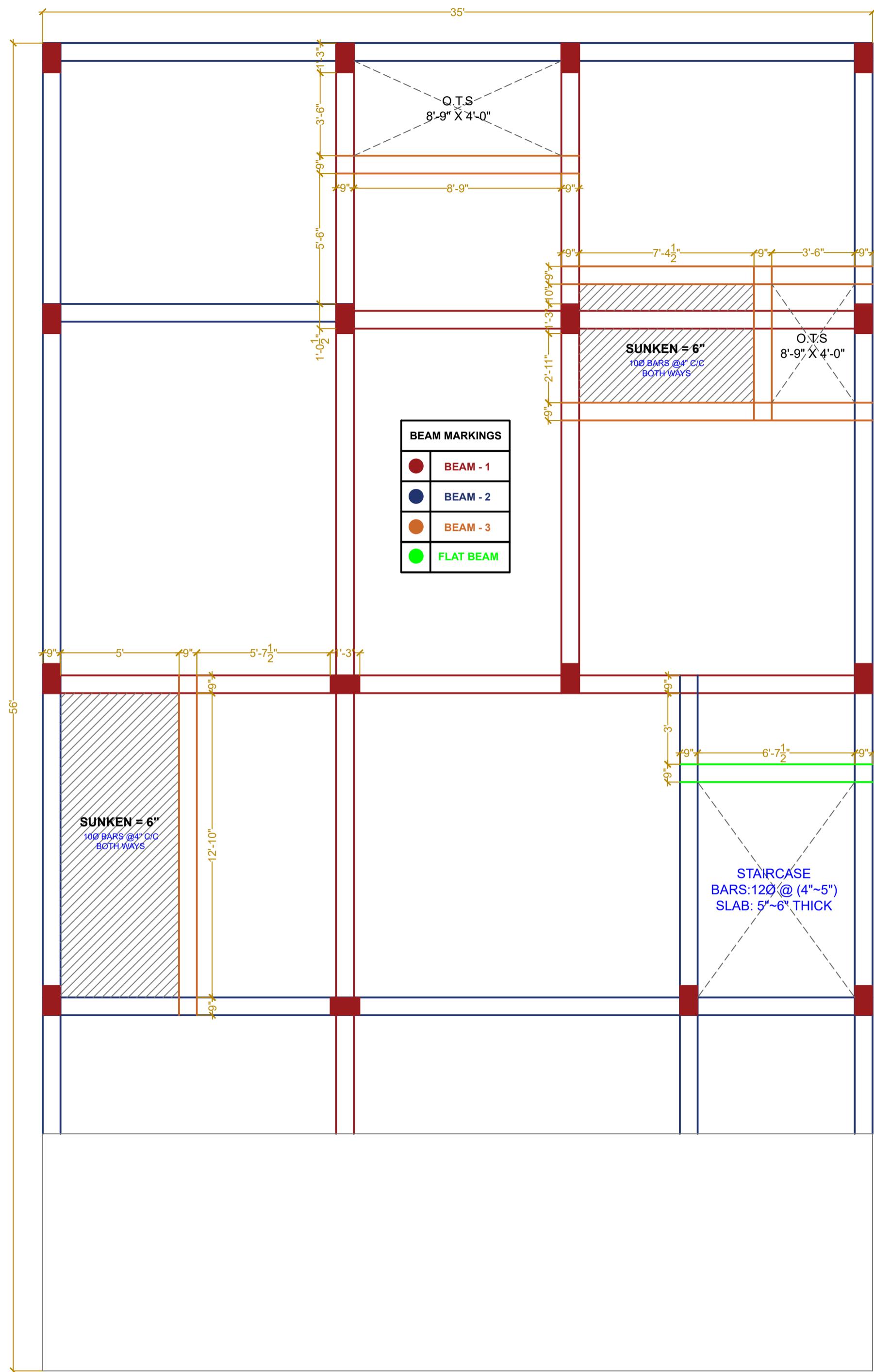


SECTION C-C



SECTION D-D

BEAM LAYOUT

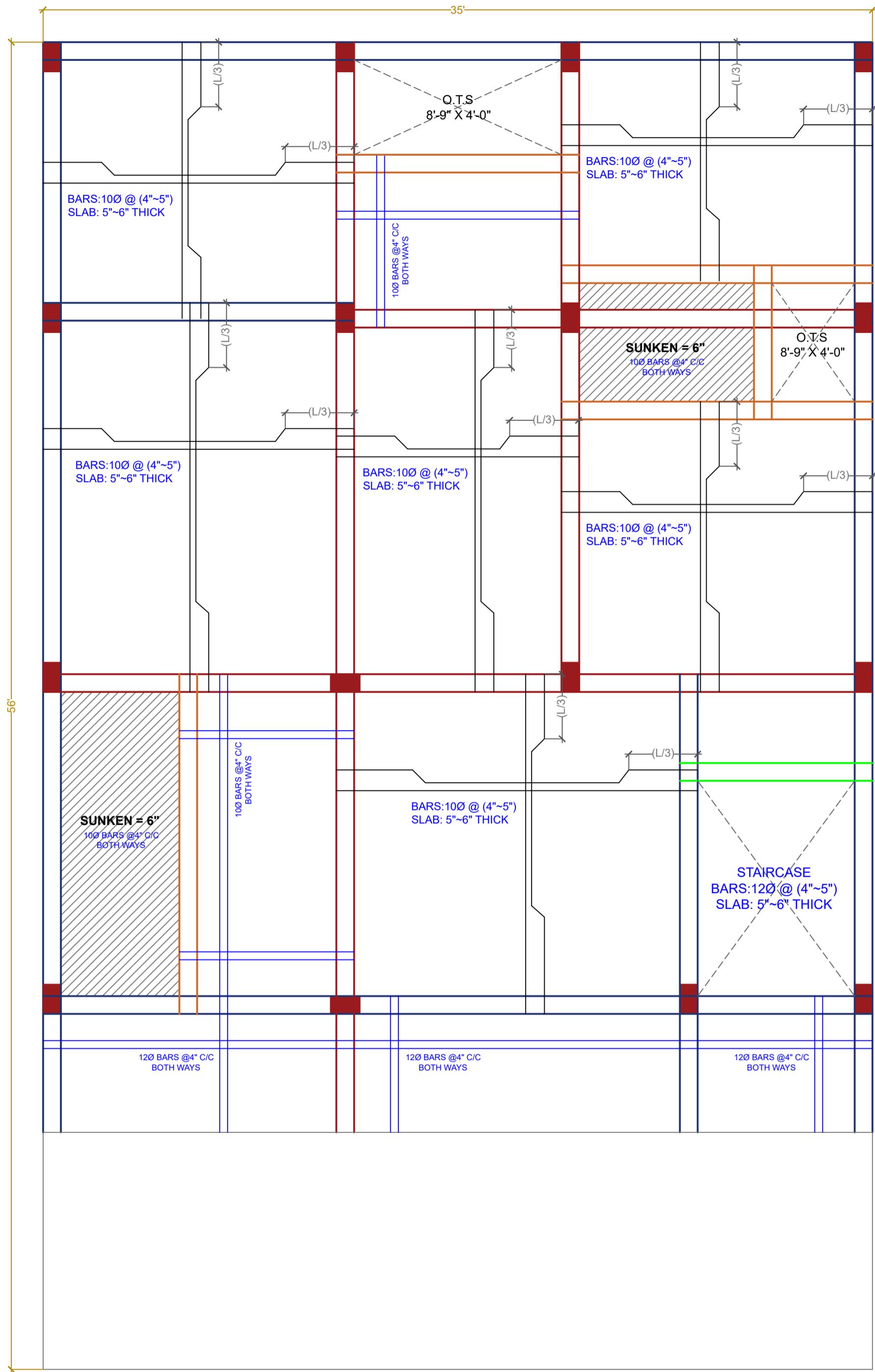


FRONT SIDE (MAIN ROAD) WEST

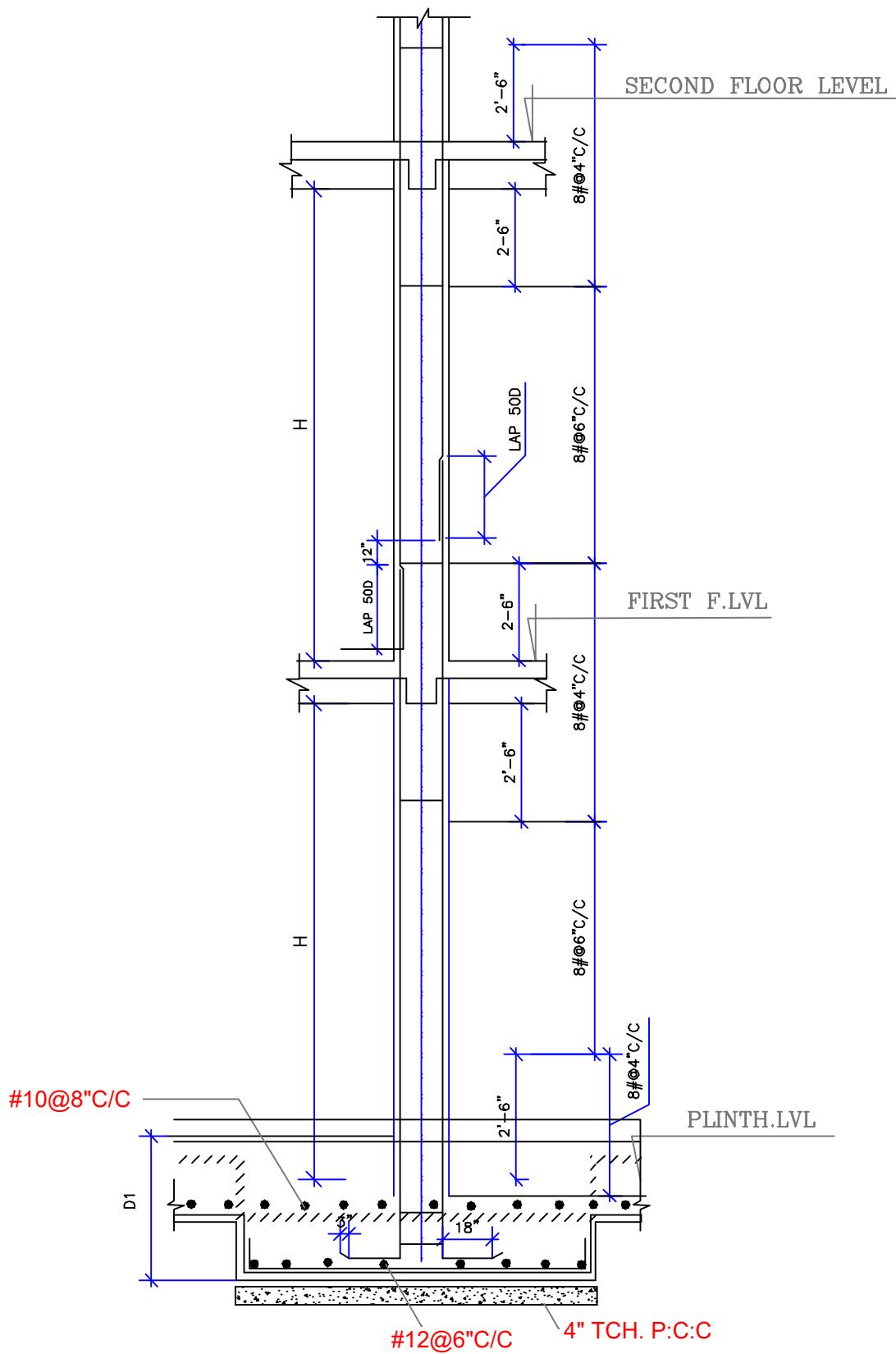
COLOR CODE

	BEAMS FOR : STILT PARKING (1st Lintel)	BEAMS FOR : 1st FLOOR (2nd Lintel)	BEAMS FOR : 2nd FLOOR (3rd Lintel)
BEAM - 1 BEAM SIZE : 9" X 14"	BEAM - 1 BEAM SIZE : 9" X 14"	BEAM - 1 BEAM SIZE : 9" X 14"	BEAM - 1 BEAM SIZE : 9" X 14"
BEAM - 2 BEAM SIZE : 9" X 14"	BEAM - 2 BEAM SIZE : 9" X 14"	BEAM - 2 BEAM SIZE : 9" X 12"	BEAM - 2 BEAM SIZE : 9" X 12"
BEAM - 3 BEAM SIZE : 9" X 12"	BEAM - 3 BEAM SIZE : 9" X 12"		BEAM - 3 NOT REQUIRED
FLAT BEAM BEAM SIZE : 9" X 4.5"	FLAT BEAM BEAM SIZE : 9" X 4.5"	FLAT BEAM BEAM SIZE : 9" X 4.5"	FLAT BEAM BEAM SIZE : 9" X 4.5"

LINTEL / SLAB LAYOUT



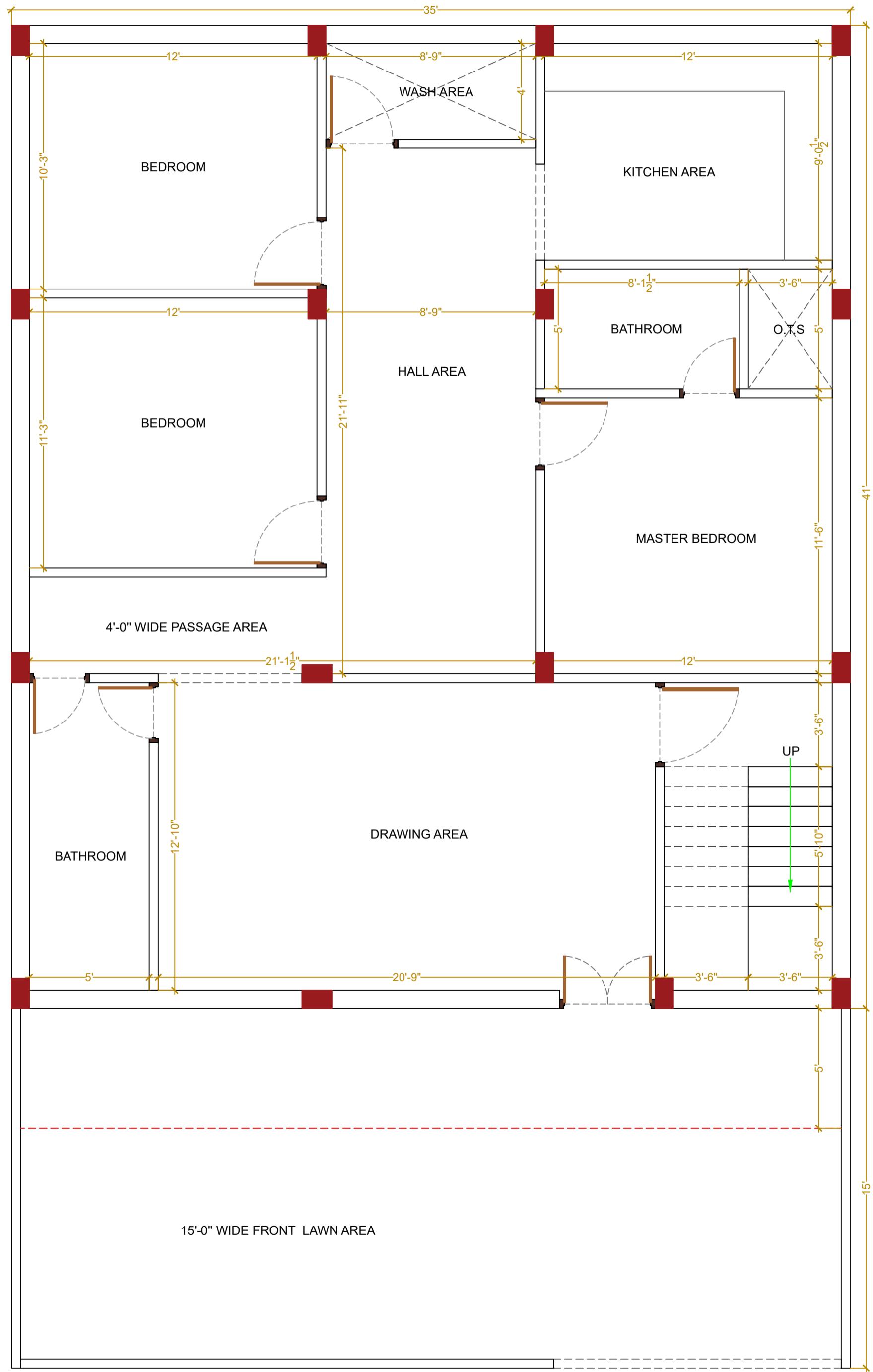
FRONT SIDE (MAIN ROAD) **WEST**



TYPICAL DETAIL OF COLUMN TIES / LAPS

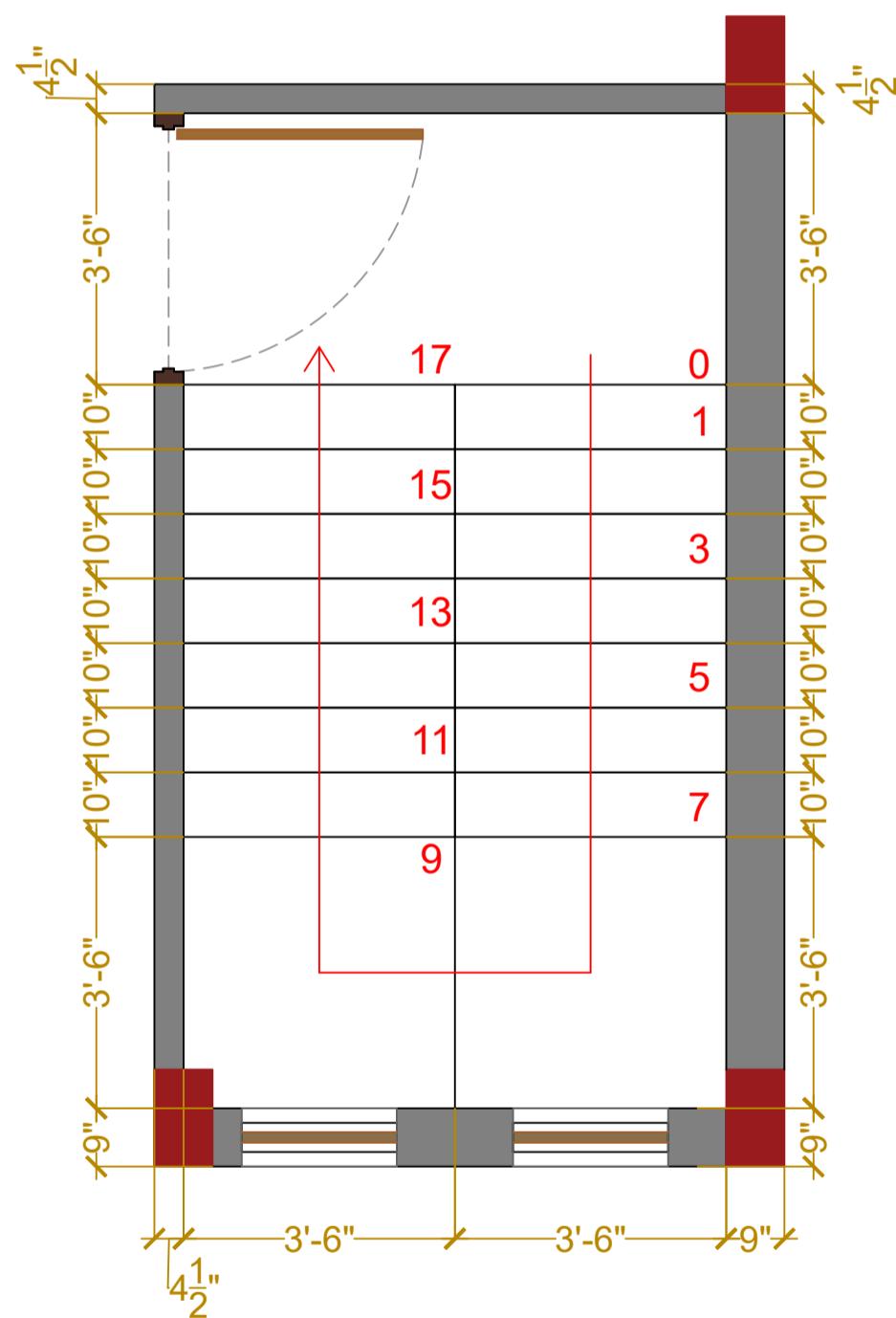
DIMENSIONS

GROUND FLOOR LAYOUT
BACK SIDE



FRONT SIDE (MAIN ROAD)
WEST

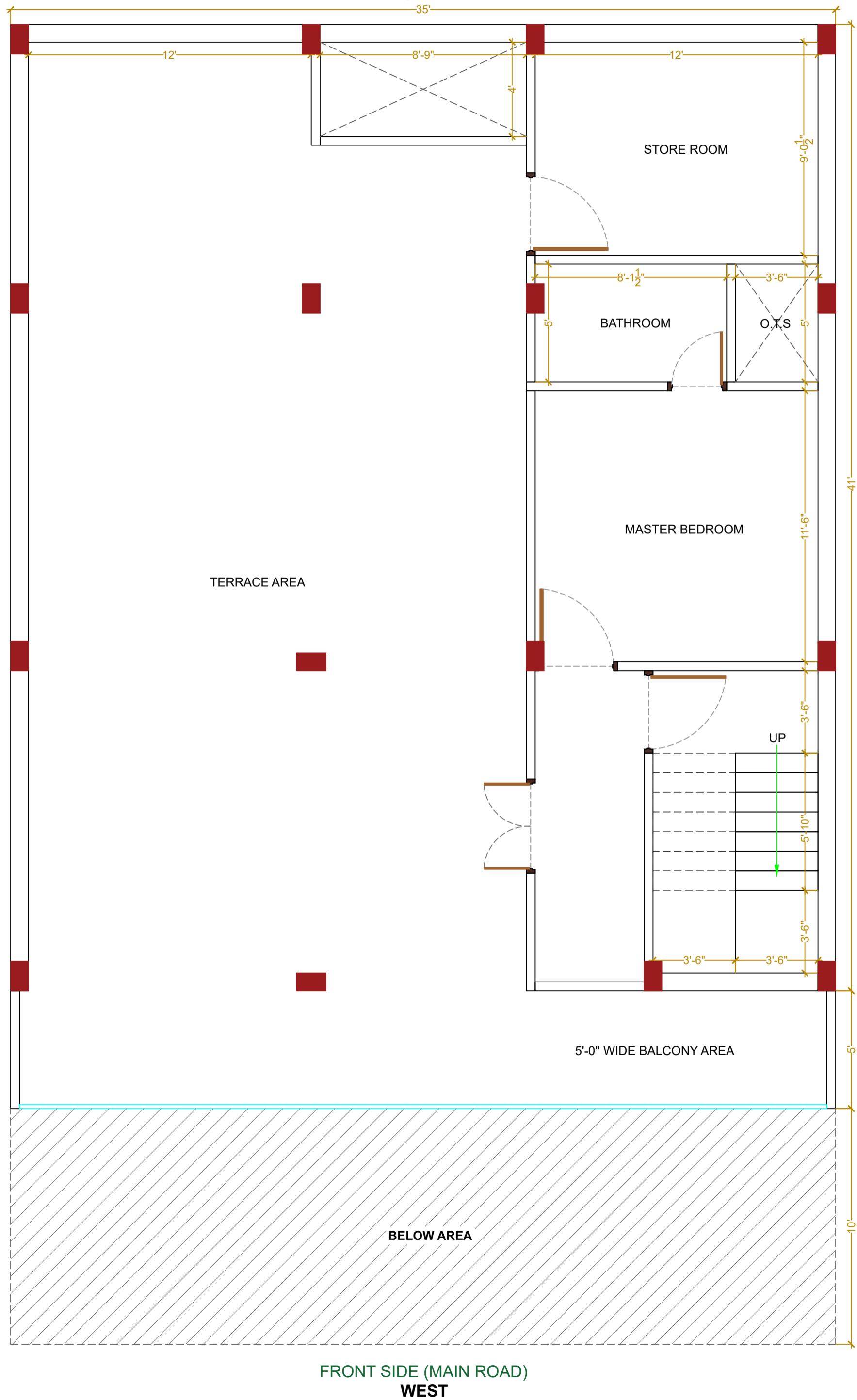
STAIRCASE DETAILS



FFL TO FFL HEIGHT = 10'
TREAD = 10"
RISER = 7.05"

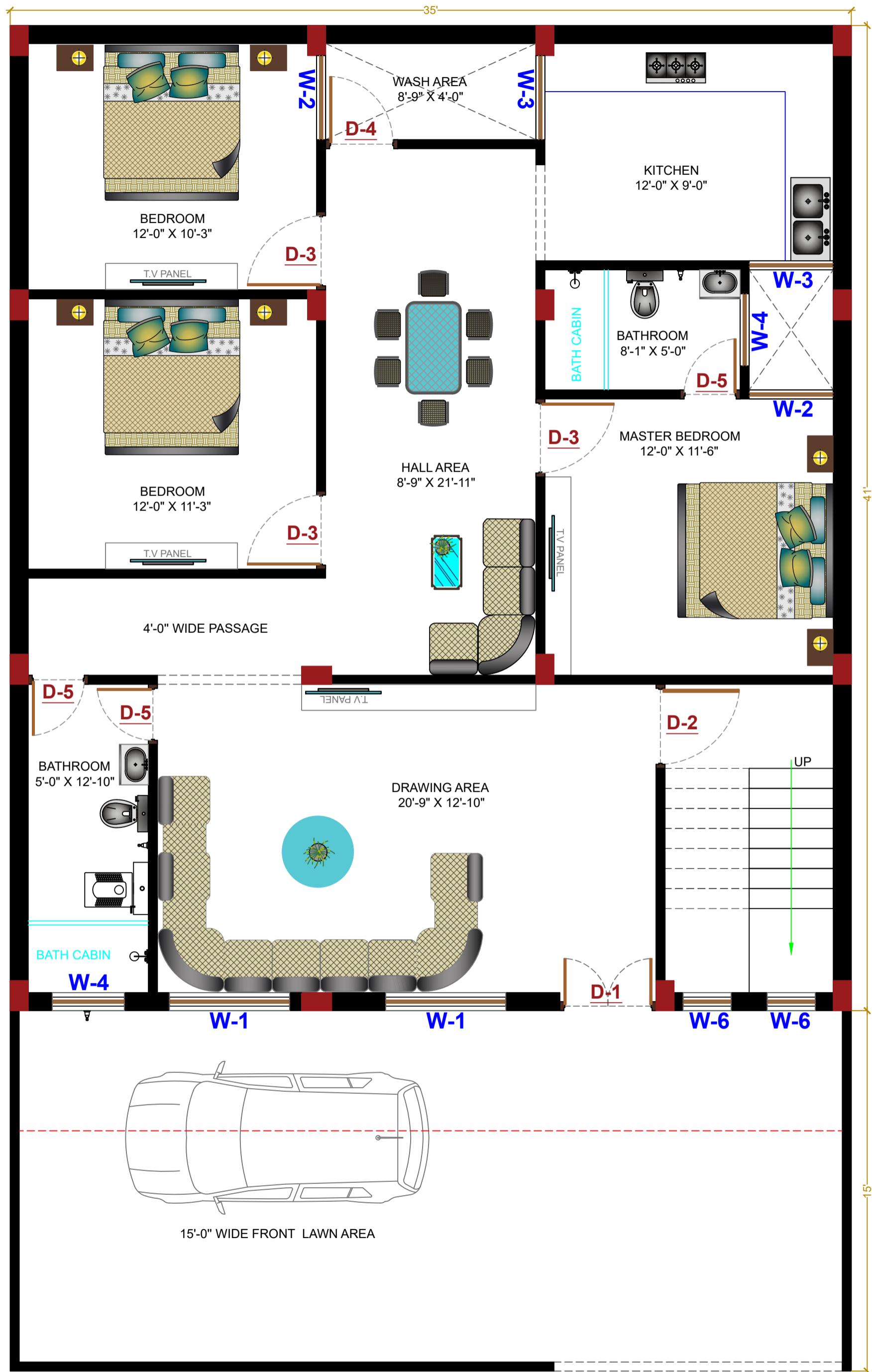
FRONT SIDE
WEST

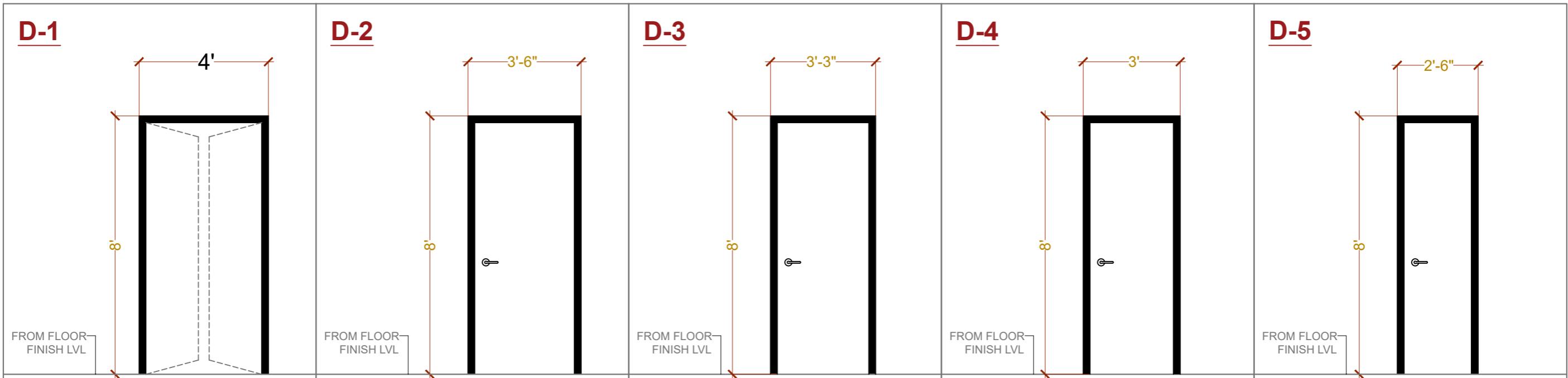
FIRST FLOOR LAYOUT BACK SIDE



DOOR - WINDOW DESIGNS

GROUND FLOOR LAYOUT
BACK SIDE





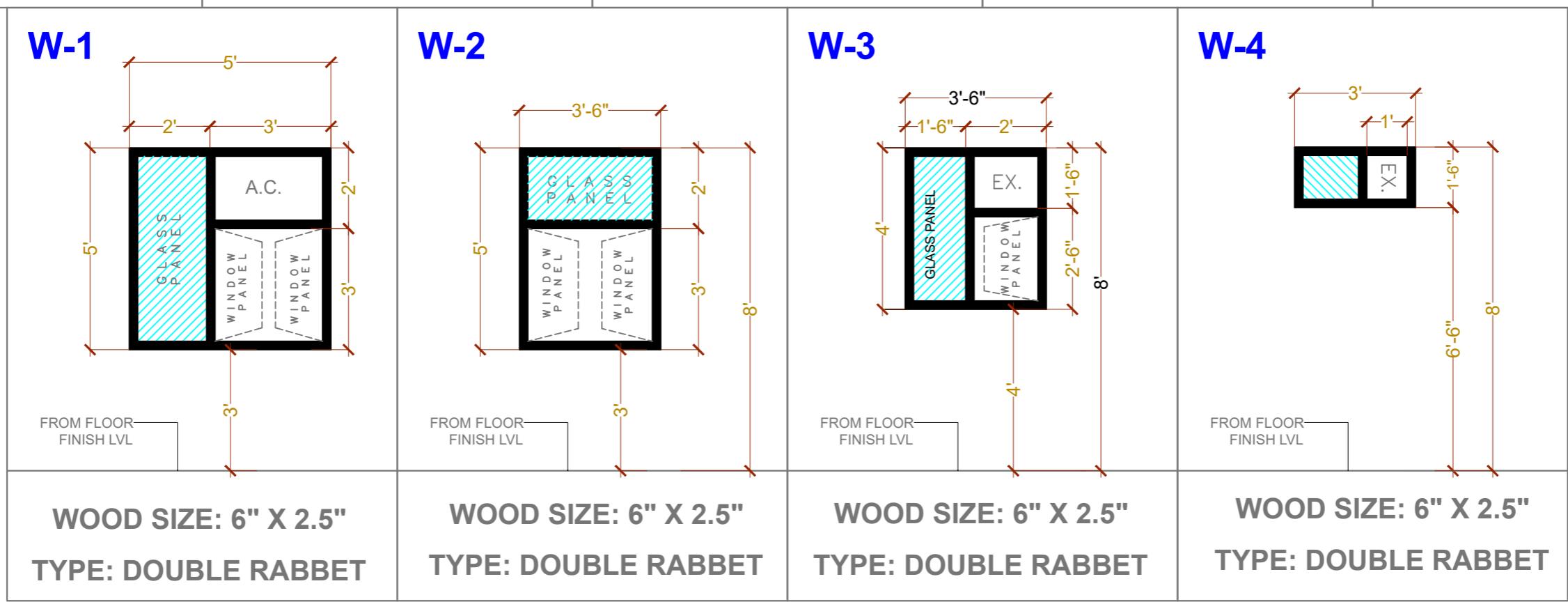
WOOD SIZE: 6" X 2.5"
TYPE: DOUBLE RABBET

WOOD SIZE: 6" X 2.5"
TYPE: DOUBLE RABBET

WOOD SIZE: 6" X 2.5"
TYPE: SINGLE RABBET

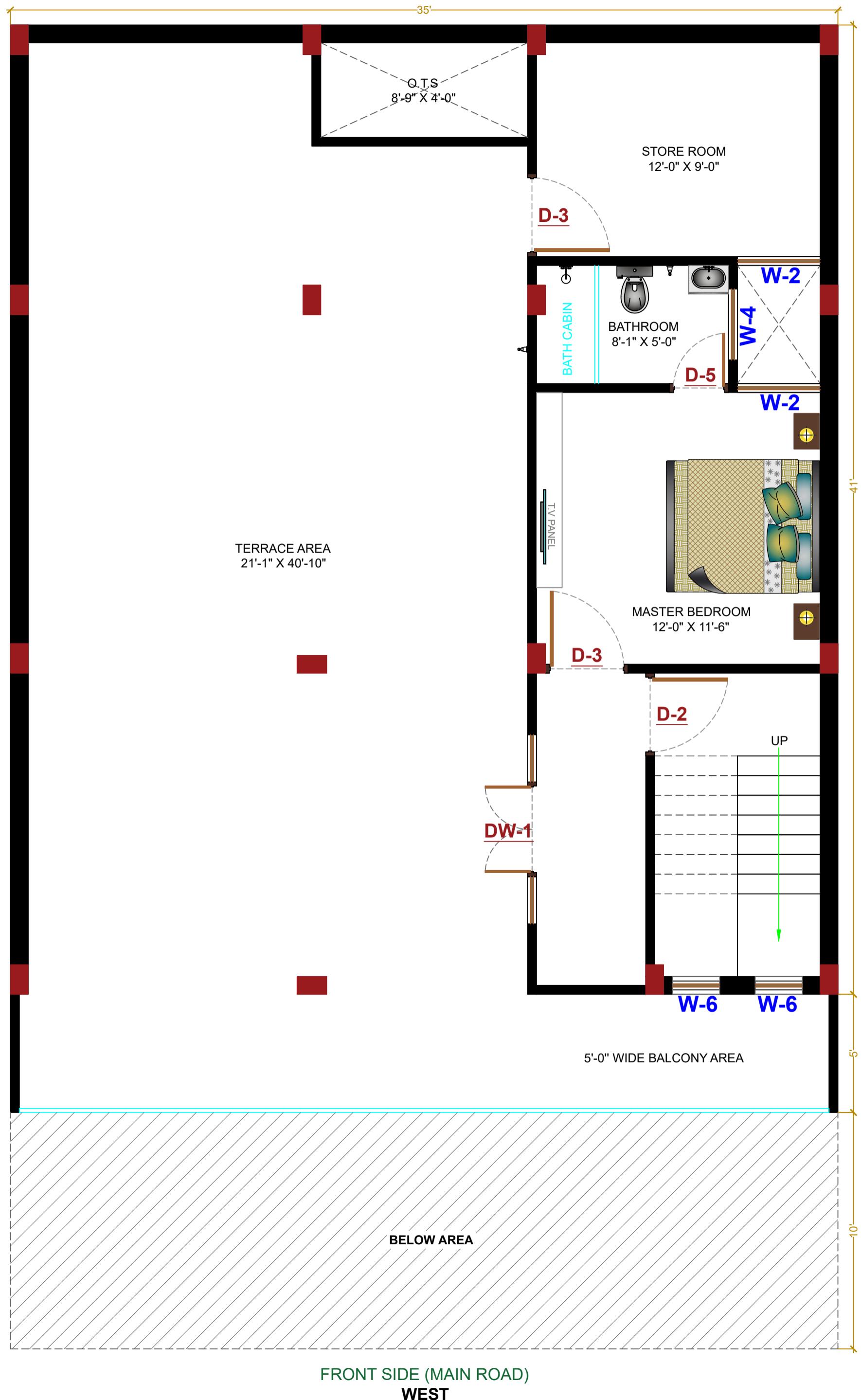
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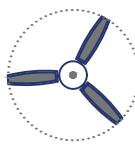
FIRST FLOOR LAYOUT
BACK SIDE



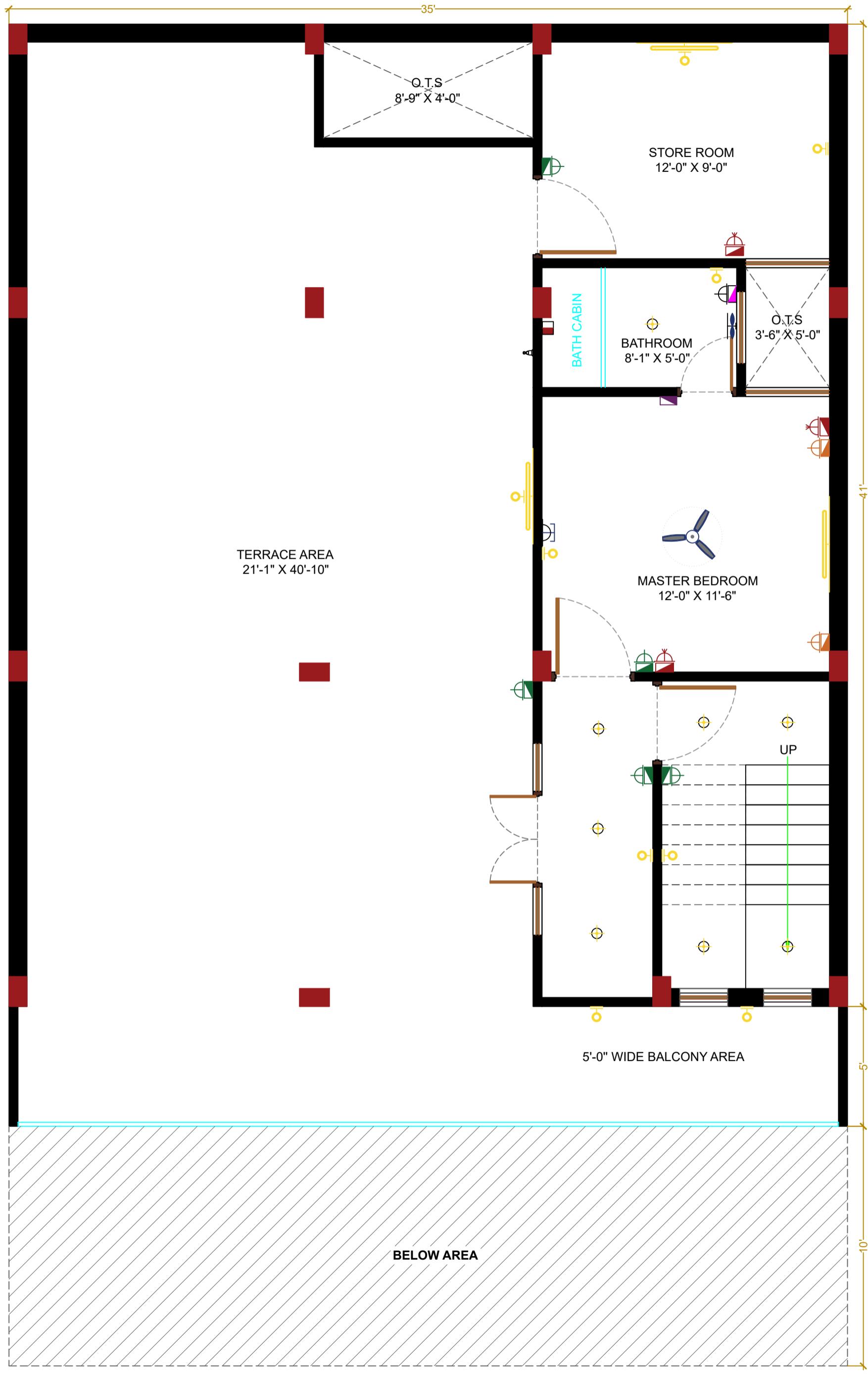
ELECTRICAL LAYOUT

GROUND FLOOR LAYOUT
BACK SIDE



INDICATIVE SYMBOL	TYPE OF ELECTRICAL FITTING	HEIGHT AND LOCATION OF PLACEMENT
	TUBE LIGHT	AT 8' HEIGHT from FINISHED FLOOR LEVEL
	CHANDELIER	CEILING ROSE TO BE PLACE BEFORE CASTING OF R.C.C SLAB
	CEILING FAN	CEILING ROSE TO BE PLACE BEFORE CASTING OF R.C.C SLAB
	SWITCH BOARD WITH 15A SOCKET WITH SWITCH FOR AIR CONDITIONER	AT 4' HEIGHT from FINISHED FLOOR LEVEL
	SWITCH BOARD WITH 15A SOCKET WITH SWITCH FOR HEAVY APPLIANCES	AT 4' HEIGHT from FINISHED FLOOR LEVEL
	SWITCH BOARD WITH 5A SOCKET WITH SWITCH FOR NORMAL APPLIANCES	AT 4' HEIGHT from FINISHED FLOOR LEVEL
	SWITCH BOARD WITH 5A SOCKET WITHOUT SWITCH FOR EXHAUST / CHIMNEY / WATER PURIFIER / Other Appliances	AT 8' HEIGHT from FINISHED FLOOR LEVEL
	5A SOCKET WITH SWITCH FOR MOBILE & LAPTOP CHARGING ALONGWITH USB CHARGING PORT	AT 4' HEIGHT from FINISHED FLOOR LEVEL
	BRACKET LIGHT	AT 8' HEIGHT from FINISHED FLOOR LEVEL
	SWITCH BOARD	AT 4' HEIGHT from FINISHED FLOOR LEVEL
	WIFI CABLE OUTLET	AT 4' HEIGHT from FINISHED FLOOR LEVEL
	TV / DTH CABLE OUTLET	AT 4' HEIGHT from FINISHED FLOOR LEVEL
	CONCEALED LIGHTING	CEILING ROSE TO BE PLACE BEFORE CASTING OF R.C.C SLAB
	SWITCH BOARD WITH 15A SOCKET WITHOUT SWITCH FOR GYSER	AT 8' HEIGHT from FINISHED FLOOR LEVEL
	MAIN DISTRUBUTION BOX	AT 8' HEIGHT from FINISHED FLOOR LEVEL
	MCB BOX	AT 5' HEIGHT from FINISHED FLOOR LEVEL
	TENTATIVE LOCATION OF ELECTRICITY METERS	HEIGHT as per Electricity Board Policy.
	TENTATIVE LOCATION OF EXHAUST FAN	AT 8' HEIGHT from FINISHED FLOOR LEVEL
	BELL PUSH	AT 4' HEIGHT from FINISHED FLOOR LEVEL
	TWO WAY SWITCH	AT 4' HEIGHT from FINISHED FLOOR LEVEL

FIRST FLOOR LAYOUT
BACK SIDE

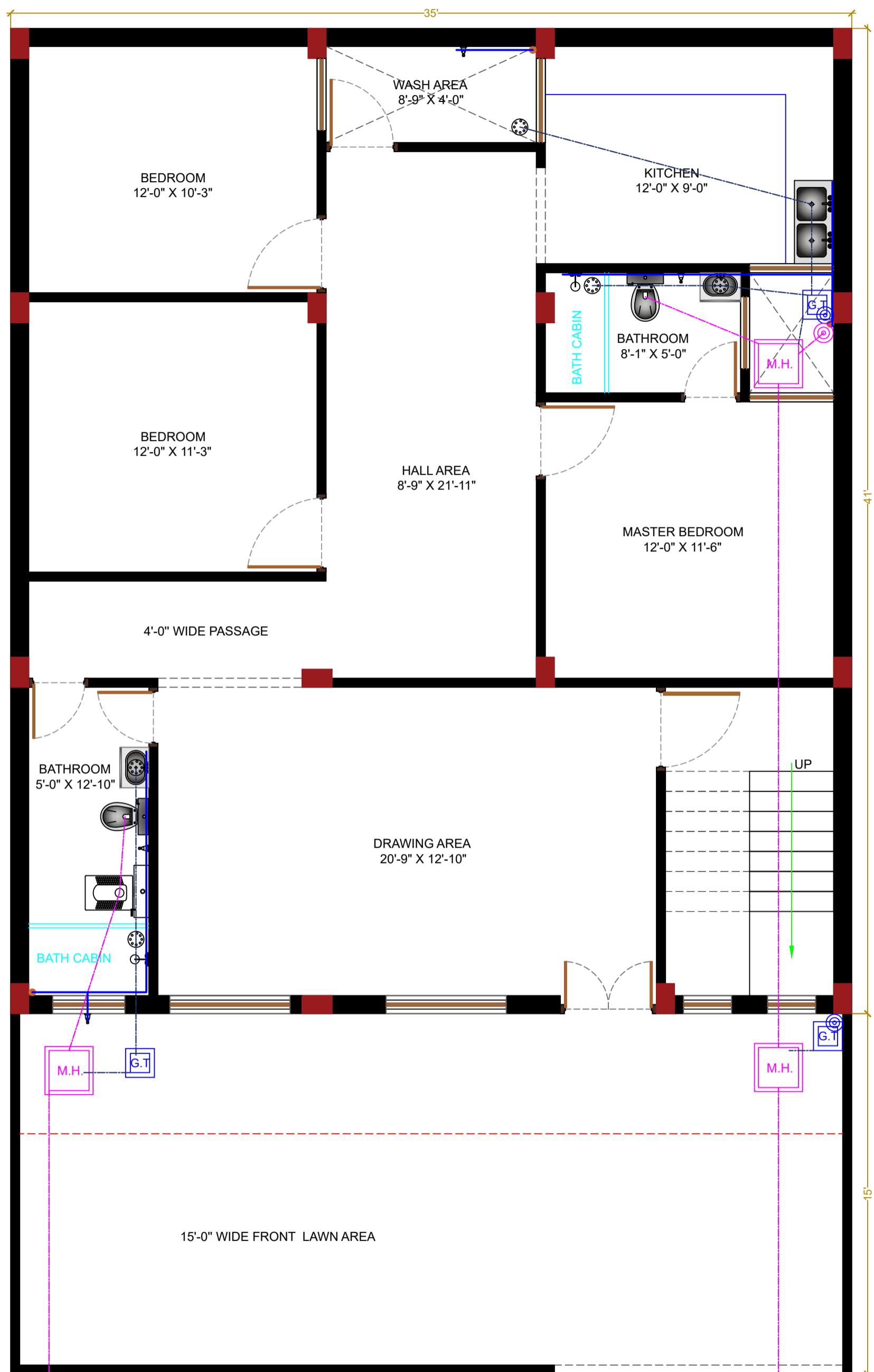


-: ELECTRICAL WORK KEY NOTES :-

- (1) USE ONLY FIRE RESISTANT GRADE WIRES FOR ALL ELECTRICAL CONNECTIONS IN THE BUILDING.
- (2) USE 16.0 MM ARMORED CABLE FROM METER TO MAIN DISTRIBUTION BOX.
- (3) USE 4.0 Sq. MM WIRES FOR ALL A.C CONNECTIONS.
- (4) USE 2.5 Sq. MM WIRES FOR ALL 15A POWER SOCKETS.
- (5) USE 2.5 Sq. MM WIRES FROM M.C.B TO SWITCH BOARDS.
- (6) USE 1.0 Sq. MM FOR FANS AND LIGHTS FROM SWITCH BOARDS.
- (7) USE 1.0 Sq. MM FOR EARTHING WIRE
- (8) USE 2.5 Sq. MM FOR UPS WIRING FROM M.C.B TO UPS/INVERTER.
- (9) USE DOUBLE DOOR MAIN DISTRIBUTION BOX.
- (10) USE SINGLE DOOR COVERED M.C.B BOXES.

PLUMBING LAYOUT

GROUND FLOOR LAYOUT
BACK SIDE



MAIN SEWER LINE

MAIN SEWER LINE

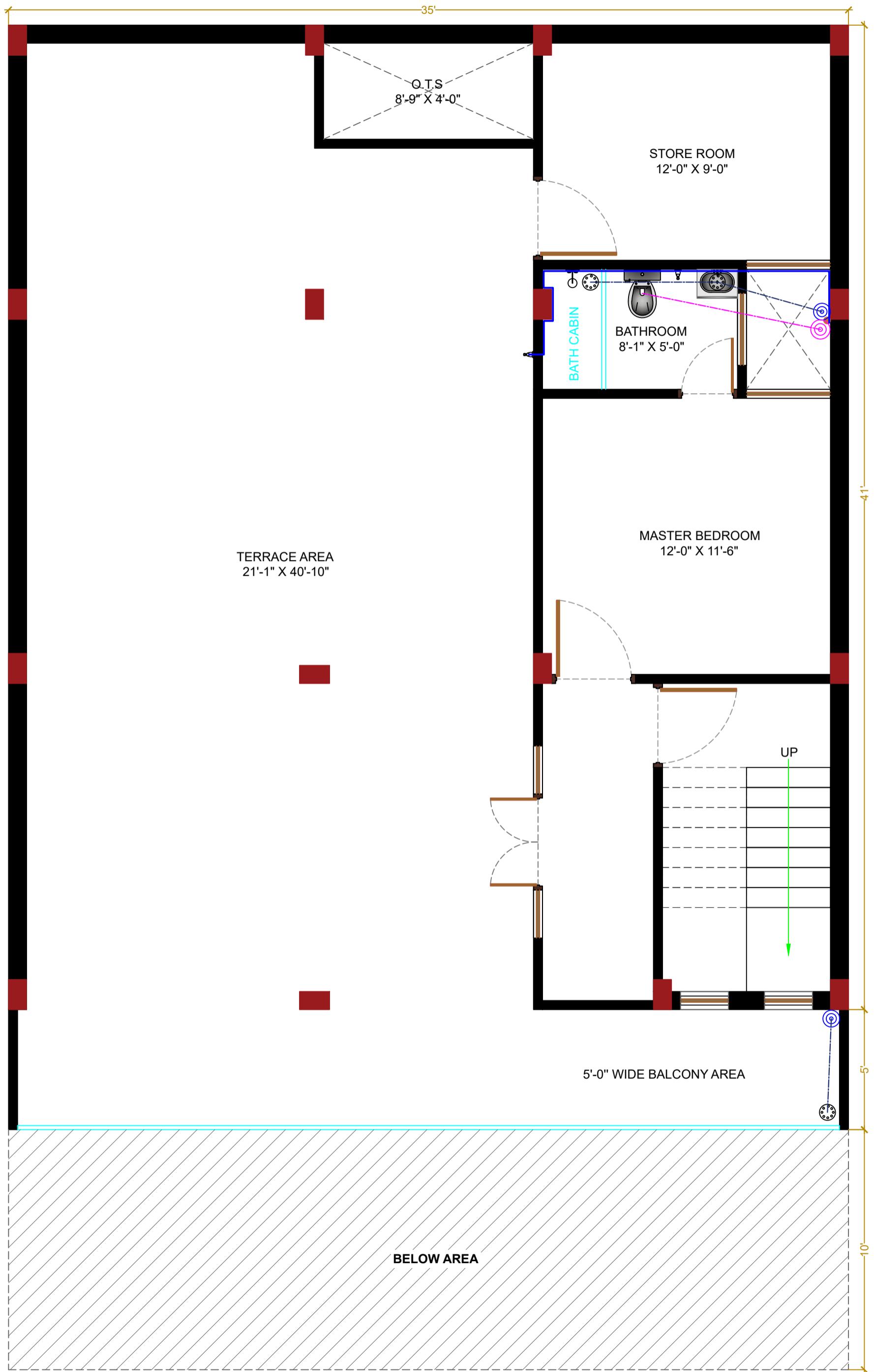
MAIN SEWER LINE

FRONT SIDE (MAIN ROAD)
WEST

SYMBOL	TYPE OF PLUMBING FITTING
	FULL SIZE KITCHEN SINK
	MEDIUM SIZE KITCHEN SINK
	SMALL SIZE KITCHEN SINK
	COUNTER TOP WASH BASIN
	CORNER WASH BASIN
	WALL / FLOOR MOUNTED WATER CLOSET
	ASIAN SQUAT TOILET SEAT
	WALL MOUNTED / CONCEALED CISTERN
	BATH / HAND SHOWER (HOT / COLD WATER MIXTURE)
	GEYSER FITTINGS (HOT WATER OUTLET & COLD WATER INLET)
	MIXER FAUCET (WASH BASIN AREA)
	HEALTH FAUCET
	FLOOR "P-TRAP" WITH S.S. MESH
	BOTTLE TRAP (WASH BASIN AREA)
	3" PVC DRAINAGE PIPE (RAIN WATER)
	4" PVC DRAINAGE PIPE (SOIL / WASTE WATER)
	6" PVC DRAINAGE PIPE (SOIL / WASTE WATER)
	1" dia. WATER PIPELINE
	1' X1' GULLY TRAP
	2' X 2' MANHOLE

TYPE OF PLUMBING PIPELINE	
	4" SOIL WASTE LINE
	3" WASTE WATER LINE
	WATER PIPELINE

FIRST FLOOR LAYOUT
BACK SIDE

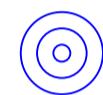


FRONT SIDE (MAIN ROAD)
WEST

— — — — — 4" SOIL WASTE LINE

— — — — — 3" WASTE WATER LINE

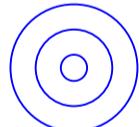
— — — — — WATER PIPELINE



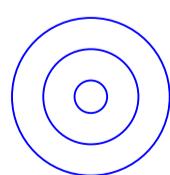
3" PVC
RAIN WATER PIPE



VERTICAL PIPELINE
TOWARDS WATER
TANK ON TOP FLOOR



4" PVC
WASTE WATER PIPE



4" - 6" PVC
SOIL PIPE

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 - (B)COLUMN = 1.5" (40mm)
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CEMENT CONCRETE MIX

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