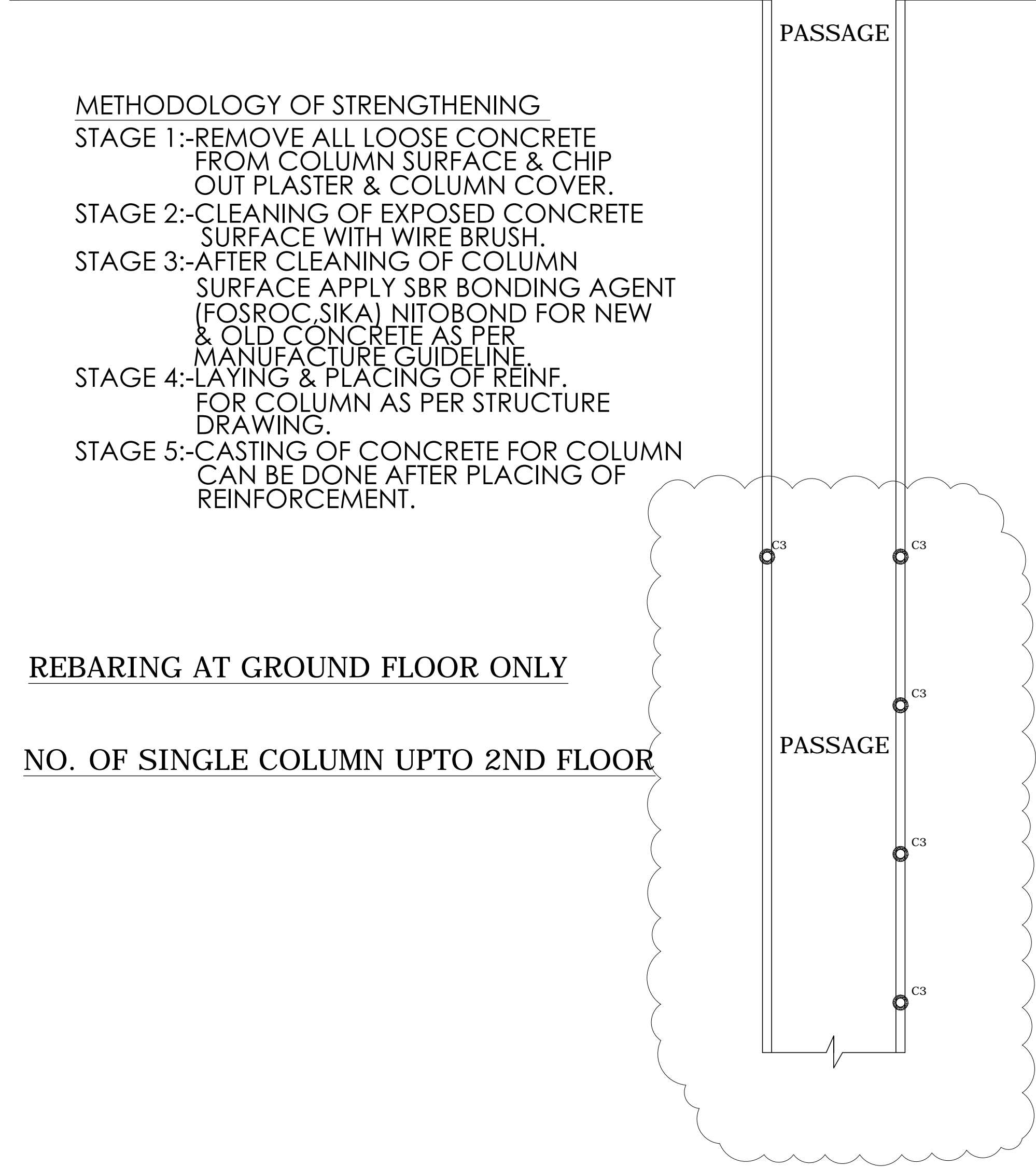
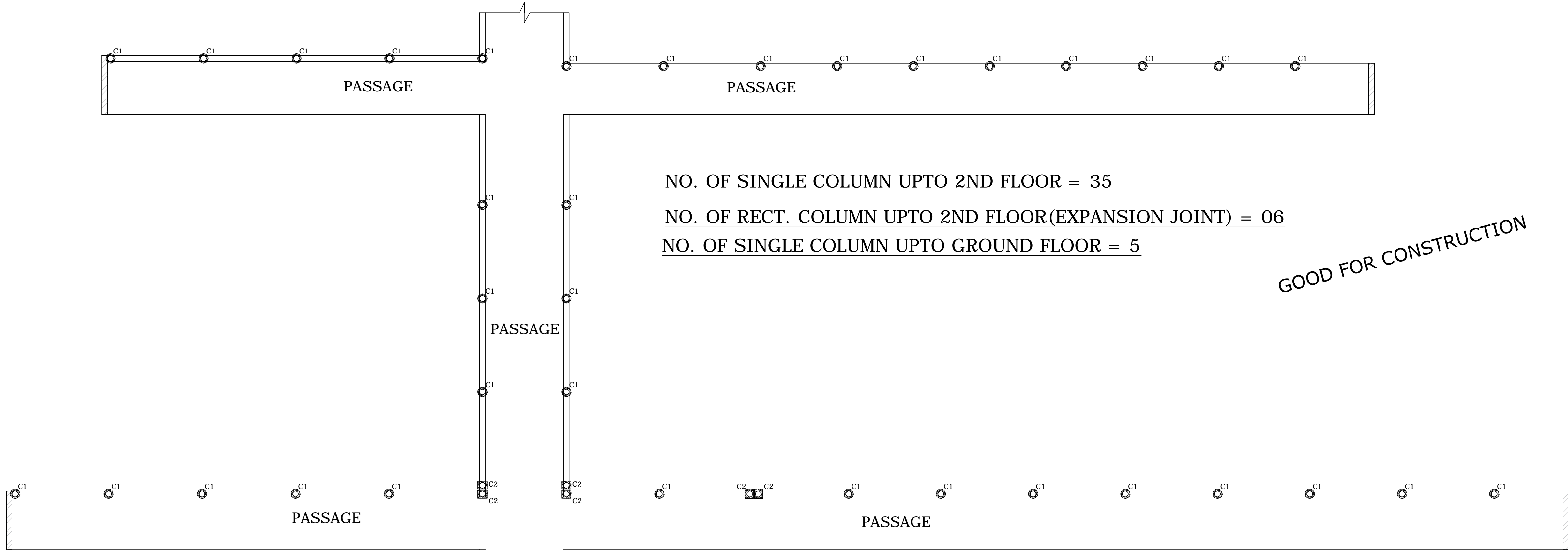


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**METHODOLOGY OF STRENGTHENING**  
STAGE 1:-REMOVE ALL LOOSE CONCRETE FROM COLUMN SURFACE & CHIP OUT PLASTER & COLUMN COVER.  
STAGE 2:-CLEANING OF EXPOSED CONCRETE SURFACE WITH WIRE BRUSH.  
STAGE 3:-AFTER CLEANING OF COLUMN SURFACE APPLY SBR BONDING AGENT (FOSROC,SIKA) NITOBOND FOR NEW & OLD CONCRETE AS PER MANUFACTURE GUIDELINE.  
STAGE 4:-LAYING & PLACING OF REINF. FOR COLUMN AS PER STRUCTURE DRAWING.  
STAGE 5:-CASTING OF CONCRETE FOR COLUMN CAN BE DONE AFTER PLACING OF REINFORCEMENT.

**REBARING AT GROUND FLOOR ONLY**

**NO. OF SINGLE COLUMN UPTO 2ND FLOOR**

**NO. OF SINGLE COLUMN UPTO 2ND FLOOR = 35**

**NO. OF RECT. COLUMN UPTO 2ND FLOOR(EXPANSION JOINT) = 06**

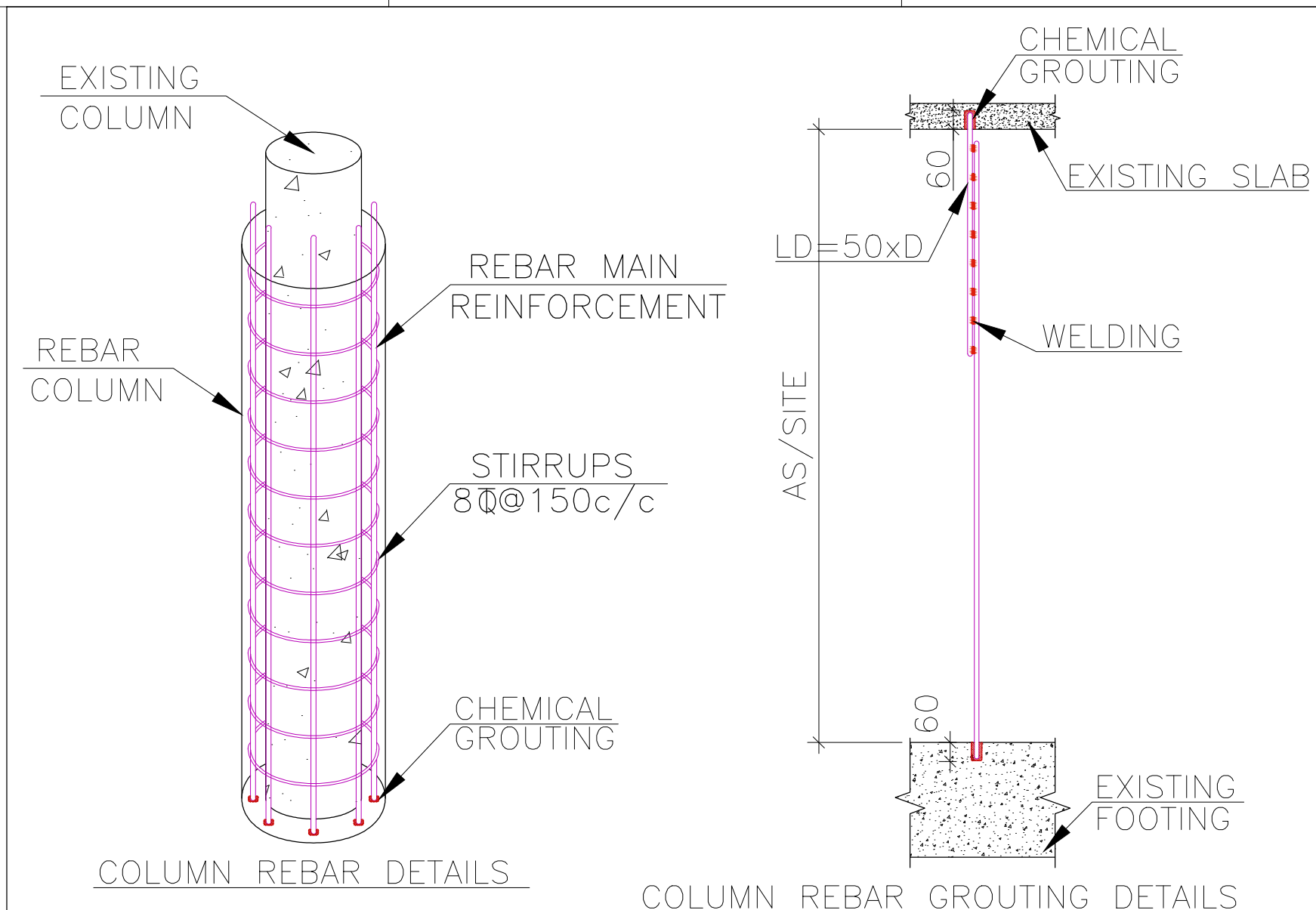
**NO. OF SINGLE COLUMN UPTO GROUND FLOOR = 5**

**GOOD FOR CONSTRUCTION**

### COLUMN STRENGTHENING LAYOUT PLAN

#### REBARING COLUMN SCHEDULE

S.NO.	1.	2.	3.
COLUMN NAME	C1	C2	C3
EXISTING COLUMN			
REBAR COLUMN			
REBAR COLUMN REINFORCEMENT	MAIN BAR=08-16Ø STIRRUPS=8Ø@150c/c	MAIN BAR=08-16Ø STIRRUPS=8Ø@150c/c	MAIN BAR=08-16Ø STIRRUPS=8Ø@150c/c
GRADE OF CONCRETE	CONCRETE GRADE M-40 USE MICRO CONCRETE	CONCRETE GRADE M-40 USE MICRO CONCRETE	CONCRETE GRADE M-40 USE MICRO CONCRETE



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#### NOTES:

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- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK, TO THE CONSULTANTS.
- THE STRUCTURE IS DESIGNED CONSIDERING ABOVE INDICATED CONCRETE & REINFORCING STEEL GRID. IT IS CONTRACTORS RESPONSIBILITY TO ACHIEVE THE DESIRE STRENGTH BY STANDARD DESIGN MIX.
- ALL DIMENSIONS /LEVELS & CUT OUT CHECK AS PER ARCHITECTURAL & SERVICES DRG.
- MICRO-CONC.MIX. M-40 (U.N.O.)
- SLAB STEEL EXTEND .3xLENGTH OF PANEL FROM THE FACE OF BEAM.
- ALL RCC WORKS SHOULD BE CARRIED OUT AS PER IS 456:2000
- CLEAR COVER TO OUTERMOST REINFORCEMENT LAYER SHALL BE AS FOLLOWS:
  - FOUNDATION BOTTOM :70MM
  - FOUNDATION TOP/SIDES :40MM
  - COLUMNS, PEDESTALS :25MM OR DIA OF BAR WHICHEVER IS MORE
  - BEAMS :25MM OR DIA OF BAR WHICHEVER IS MORE
- REINFORCEMENT STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS(#) CONFORMING TO IS:1786 Grade Fe 500
- NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION.
- STRUCTURAL & ARCHITECTURAL DRAWINGS SHOULD BE FOLLOWED IN RELATION TO EACHOTHER & ANY AMBIGUITY IF FOUND SHOULD BE REPORTED IN WRITING BEFORE EXECUTION.
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- PROVIDE DOWELS FOR ANY ARCHITECTURAL FEATURES NOT SHOWN IN THIS DRAWING AS PER ARCHITECTURAL DRAWINGS.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY STRUCTURAL PROBLEM/FAILURE ARISING DUE TO ANY UNAUTHORISED DRILLING, CUTTING, BREAKING ETC. IN ANY RCC MEMBER FOR ANY PURPOSE WHATSOEVER (AC PIPING, ELECTRICAL, FIRE, PLUMBING ETC.)
- FOLLOW THIS DRG. WITH RESPECT TO OTHER DRG.

#### S.No. LEGENDS

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DATE	DESCRIPTION	REVISION
17.11.23	GFC.	R4

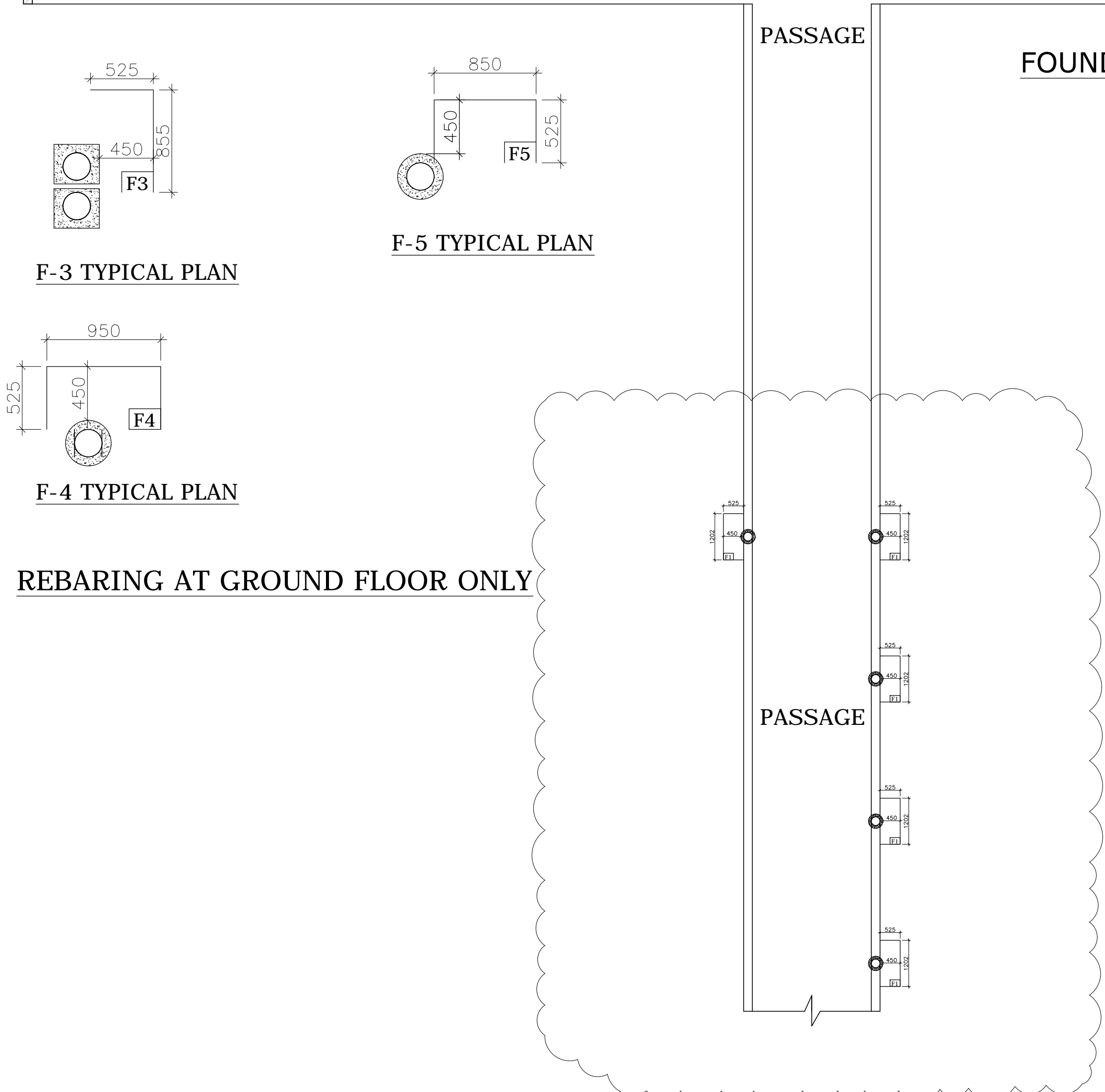
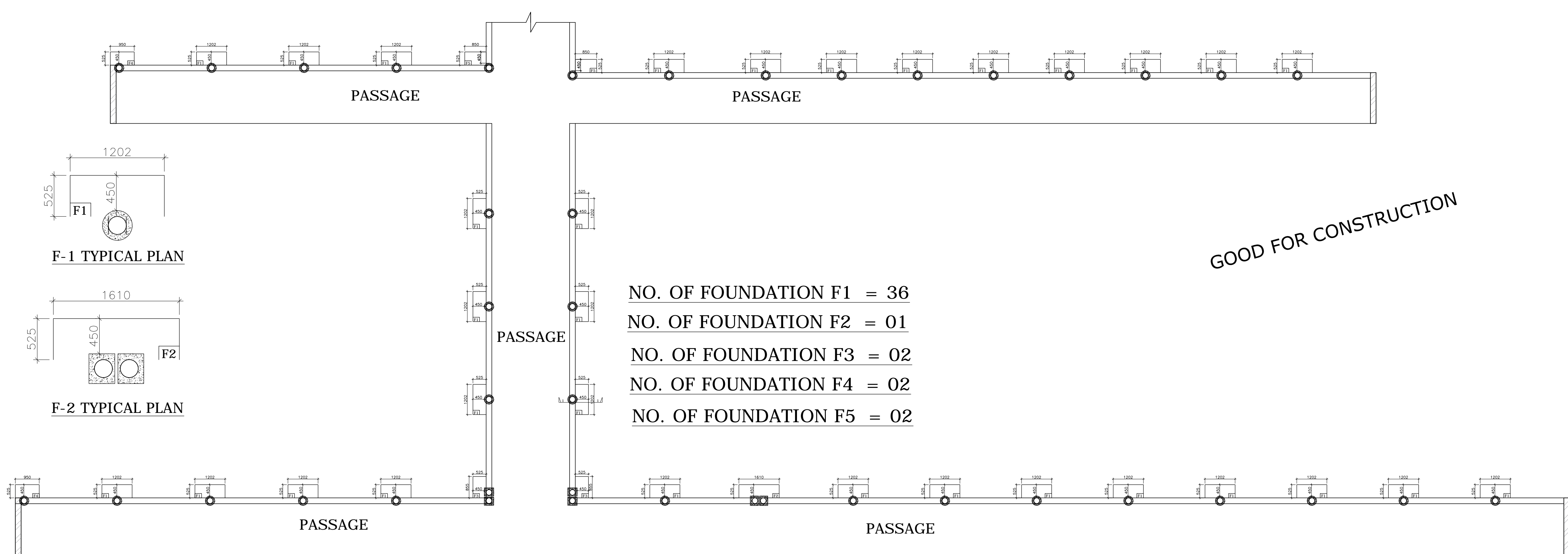
PROJECT NAME:-  
THE AIRFORCE SCHOOL

LOCATION:-

DRAWING TITLE:-  
COLUMN STRENGTHENING DETAILS

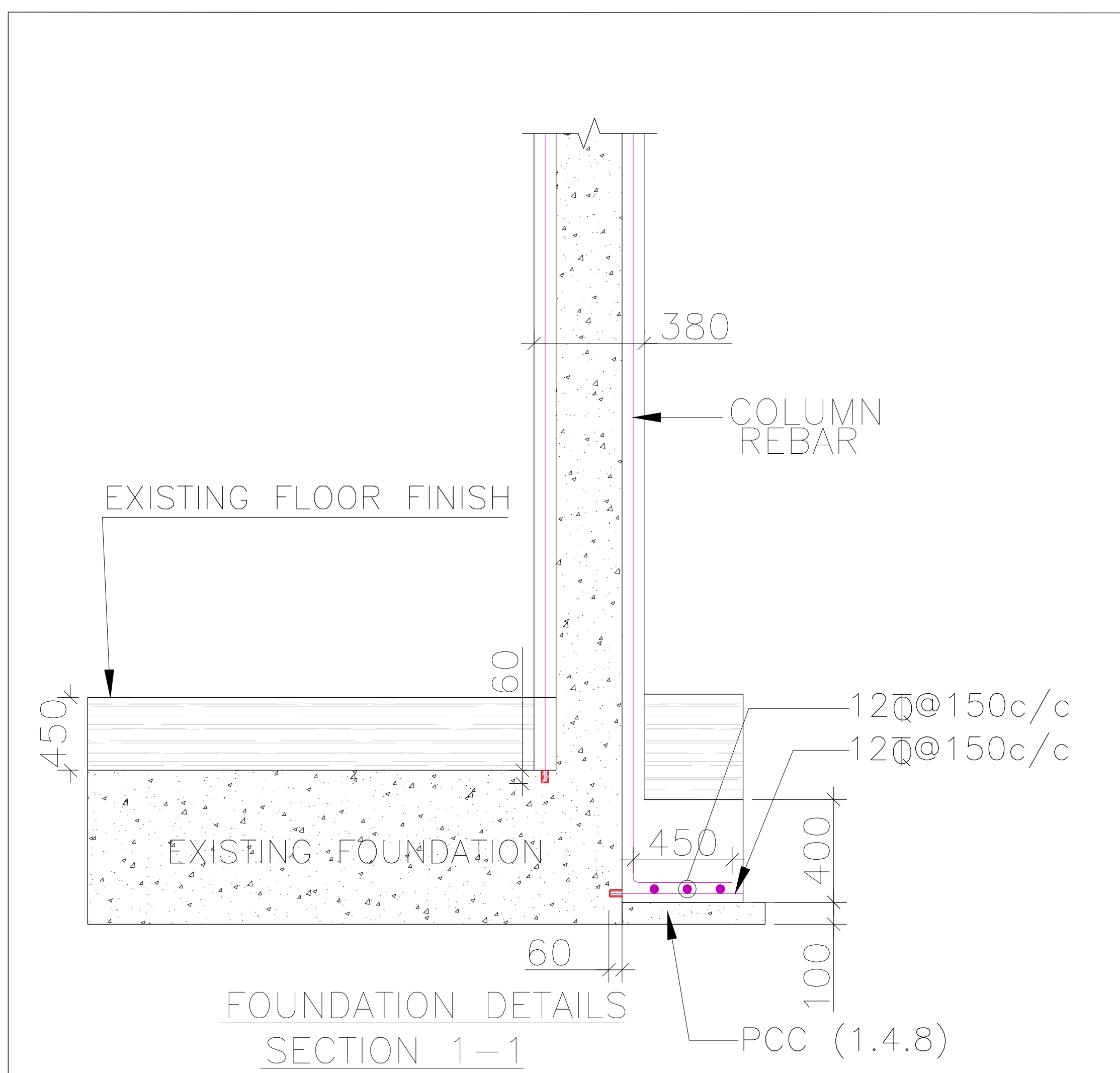
APPROVED BY:-	YATIN GOYAL
CHECKED BY:-	YATIN GOYAL
DRAWN BY:-	RAHUL SURYA
DATE:-	17.11.2023
SCALE :-	N.T.S
DRAWING NO:-	
SDS	FBD
STR	002R4





NO. OF FOUNDATION F1 = 36  
NO. OF FOUNDATION F2 = 01  
NO. OF FOUNDATION F3 = 02  
NO. OF FOUNDATION F4 = 02  
NO. OF FOUNDATION F5 = 02

FOUNDATION PLAN



GOOD FOR CONSTRUCTION

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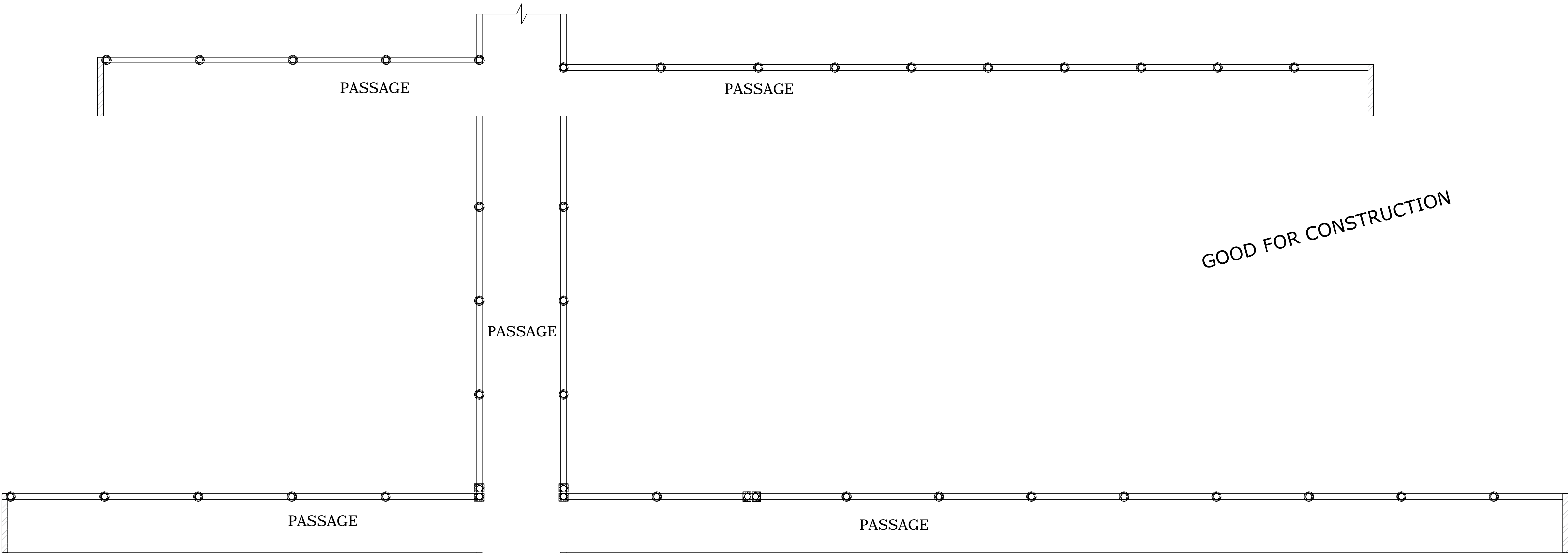
DATE	DESCRIPTION	REVISION
17.11.23	GFC.	R4

PROJECT NAME:-  
THE AIRFORCE SCHOOL

LOCATION:-

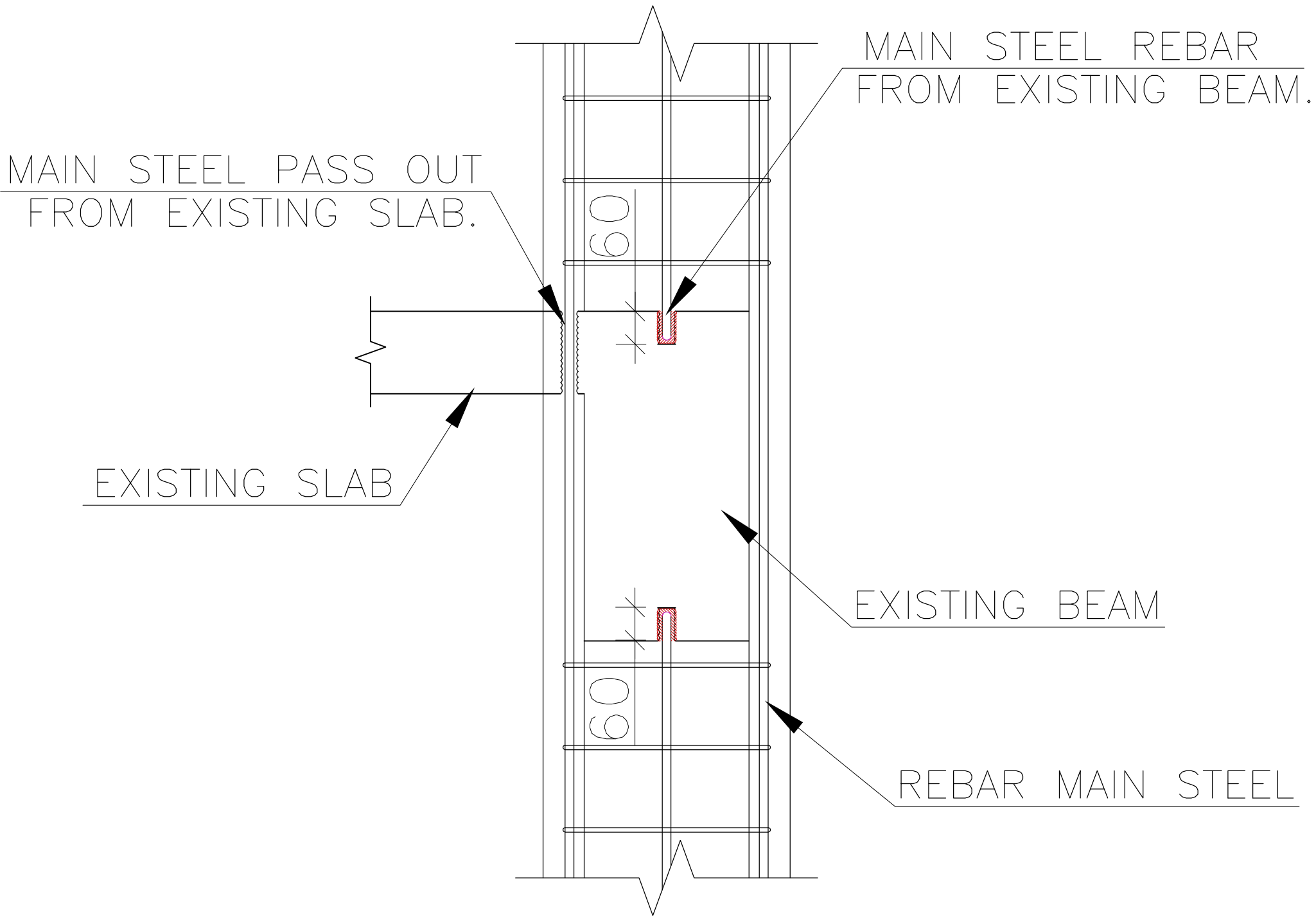
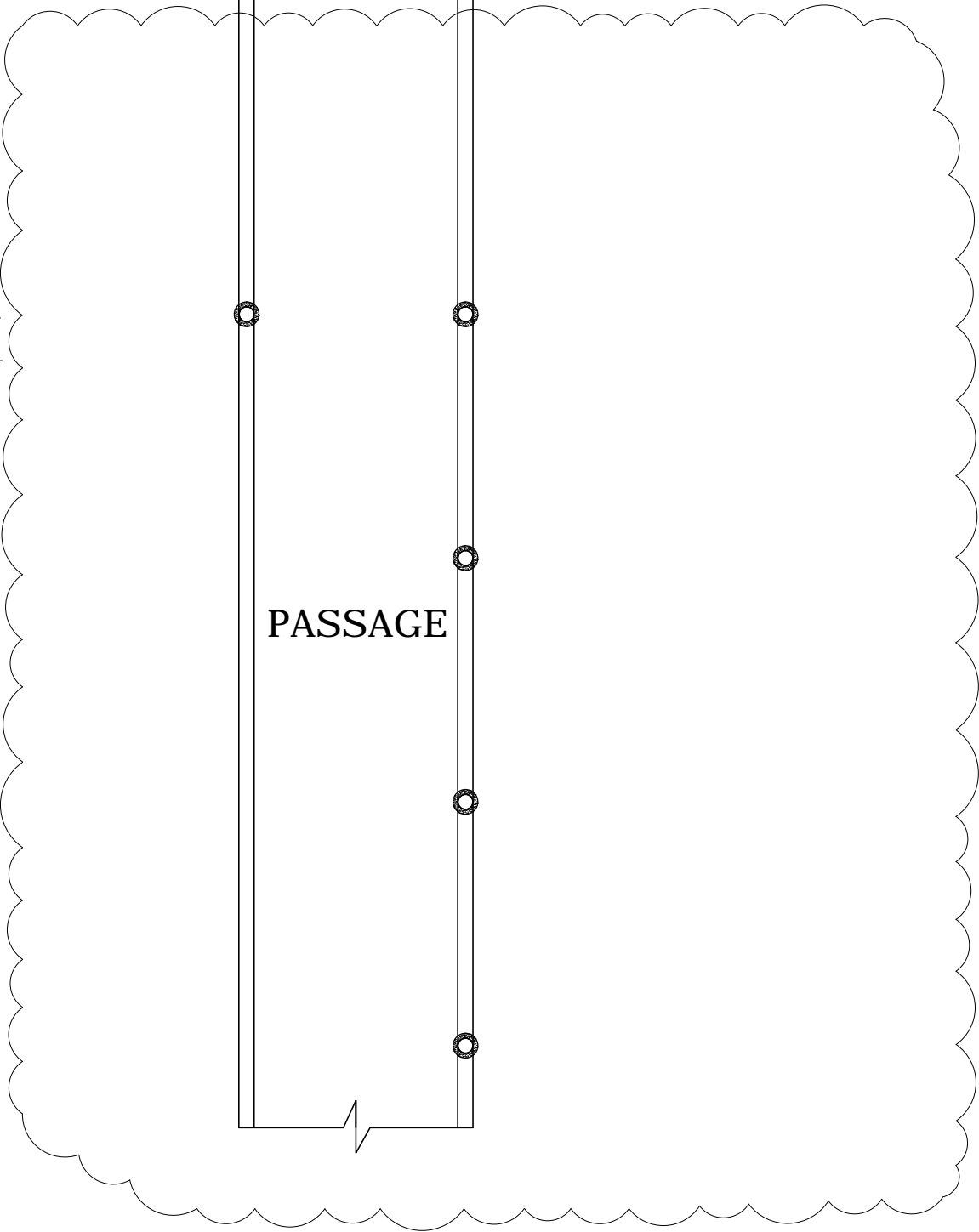
DRAWING TITLE:-  
FOUNDATION DETAILS

APPROVED BY:—		YATIN GOYAL	
CHECKED BY:—		YATIN GOYAL	
DRAWN BY:—		RAHUL SURYA	
DATE:—		17.11.2023	
SCALE :—		N.T.S	
DRAWING NO:—			
	SDS	FBD	
			STR003R4



EXISTING COLUMN & BEAM JUNCTION REBAR PLAN

REBARING AT GROUND FLOOR ONLY



EXISTING BEAM & COLUMN JUNCTION DETAILS

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sdesignstudio2015@gmail.com

DATE	DESCRIPTION	REVISION
17.11.23	GFC.	R4

PROJECT NAME:-  
THE AIRFORCE SCHOOL

LOCATION:-

DRAWING TITLE:-  
EXISTING COLUMN & BEAM JUNCTION REBAR DETAILS

APPROVED BY:- YATIN GOYAL

CHECKED BY:- YATIN GOYAL

DRAWN BY:- RAHUL SURYA

DATE:- 17.11.2023

SCALE :- N.T.S

DRAWING NO:-

	SDS	FBD		STR	004	R4
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