

SECTION B-B

PROJECT ID : 05.01.53.23.161.001
SANCTIONED YEAR : 2023-24
SANCTIONING AUTHORITY : UNDER BOARD POWER
SANCTIONED COST : 16.1949 CRORES
EXECUTING AGENCY : CPW/CS/UMB (GATI SHAKTI)
PLAN HEAD : 53

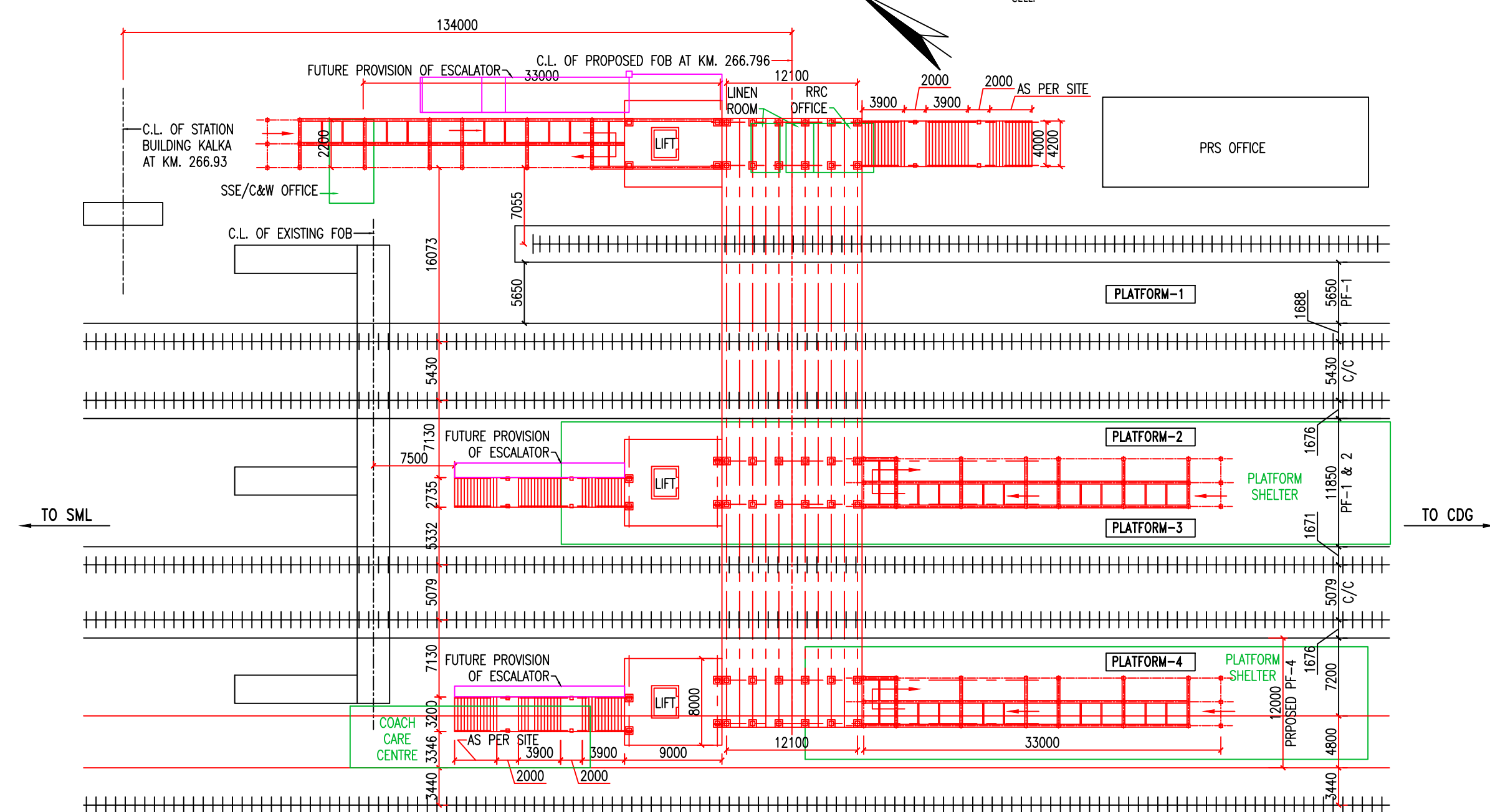
JUSTIFICATION:

KALKA IS IMPORTANT MODERN CUM MODEL "NAG-3" CATEGORY STATION DEALING WITH HEAVY PASSENGER TRAFFIC. SHATABDI & OTHER IMPORTANT TRAINS ORIGINATES/TERMINATES FROM THESE STATIONS. THE HISTORIC, APPROXIMATE 111 YEARS OLD KLK-SM. RAILWAY LINE WHICH WAS OPENED FOR PUBLIC TRAFFIC ON 9TH NOV. 1903, BECAME UNESCO'S DECLARED WORLD HERITAGE RAILWAY WHEN IT WAS COVERED HEREIN BY THE GOVERNMENT OF INDIA ON 10TH JULY 2008 & LISTED UNDER "MOUNTAIN RAILWAYS OF INDIA". DURING THE PRESENT YEAR 2407 NO. OF PASSENGERS ORIGINATED PER DAY FROM KLK STATION RESULTING IN TO EARNING OF RS. 11,73,177/-PER DAY. THE AVERAGE FOOTFALL OF PASSENGERS AT THIS STATION IS 4814 PER DAY.

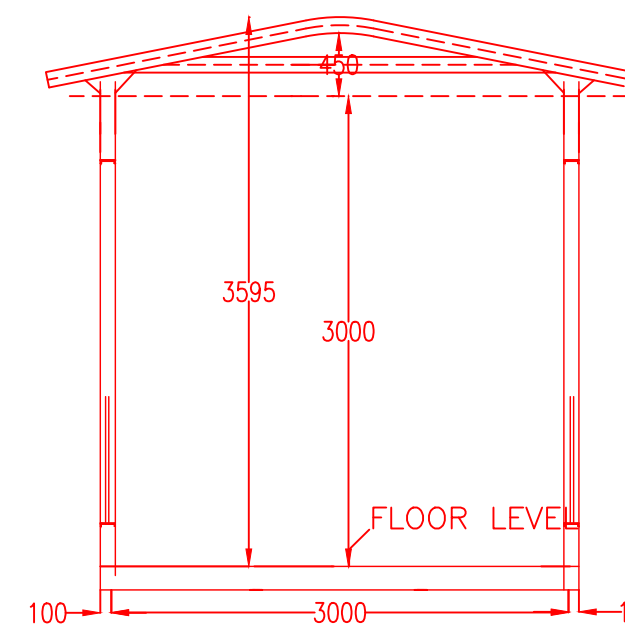
THIS STATION HAS BEEN PROPOSED FOR UP-GRADATION UNDER AMRTI BHARAT STATION SCHEME. TO CATER THE NEEDS OF THE CITY FOR NEXT 40-60 YEARS UNDER PHASE-I OF AMRTI BHARAT STATION SCHEME, PROVISION OF 12M ROAD FOR BUS BECAME ENDSOVED TO SERVE AS ROOF PLAZA WHICH WOULD BE USED AS A BUS STOP AND ALSO FOR OTHER ACTUAL AND OTHER ELEMENTS OF PASSENGER AMENITIES SPECIFIC TO THE STATION UNDER CONSIDERATION.

NOTES:-

44. . BEFORE EXECUTION OF WORK I.E. EXCAVATION FOR FOUNDATION AND FABRICATION OF STEEL WORKS, CONCERNED SR.DEN/DEN SHALL ENSURE THAT THERE IS NO MISMATCH IN GAD W.R.T. SITE. AND THERE IS NO INFRINGEMENT TO SOD. PROPER LAYOUT AS PER GAD SHALL ALSO BE MASKED AT SITE AT THE PROPER LOCATION TO VERIFY THE CORRECTION OF GAD W.R.T. SITE. IF THERE IS ANY AMBIGUITY IN GAD W.R.T. SITE, THE SAME SHOULD BE GOT BROUGHT IN NOTICE OF HEAD QUARTER BRIDGE DESIGN (FI)



SCALE: 1: 100



CROSS SECTION STAIRS SC-3

FEASIBILITY CERTIFICATE:

FEASIBILITY OF THE PROPOSAL HAS BEEN CHECKED BY ME PERSONALLY AND FOUND FEASIBLE AT SITE.

-sd-	-sd-	-sd-	-sd-	-sd-	-sd-
SSE/W/KLK	SSE/SIG/	SSE/TRD/	SSE/TELE/	SSE/P.W./KLK	ADEN/SML

NRHQE PLAN No.

NR. DIVL. PLAN No.

FB-107/UMB

FOB-80/CLK-2023/UMB

NOTES:-

3000

1. ALL DIMENSIONS ARE IN MILLIMETRES & LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

2. DO NOT SCALE, FOLLOW WRITTEN DIMENSIONS ONLY.

3. PCC SLAGG SHALL BE OBTAINED BEFORE EXECUTION OF WORK.

4. LOADING SHALL BE AS PER ROSO SPECIFICATIONS.

5. ALL DIMENSIONS ARE AS PER ACTUAL EXISTING DATA AT SITE.

6. ANY OBSTRUCTION AT SITE SHALL BE REMOVED BEFORE COMMENCEMENT OF WORK.

7. LIVE LOAD ON FOB HAS BEEN TAKEN IN ACCORDANCE WITH CLAUSE 2.3.2.1 OF IRS BRIDGE RULE.

8. WIND LOAD ON FOR HAS BEEN TAKEN IN ACCORDANCE WITH CLAUSE 2.11 (F OF IRS BRIDGE RULE.

9. MAXIMUM WIND PRESSURE IS TAKEN AS 75 kg/m².

10. THE VALUE OF LIVE LOAD IS TAKEN AS 95 KG/M² AS PER IRS BRIDGE RULES. CARE SHOULD BE TAKEN IN FIELD THAT THE VALUE OF LIVE LOAD AND IMPOSED LOAD SHALL NOT EXCEED ITS DESIGN VALUE.

11. FOR DESIGN OF FOUNDATION THE DESIGN LOADS MENTIONED IN ROSO DRG NO. ROSO/B-10438 SHOULD BE TAKEN.

12. ALL RCC WORK TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS LAID DOWN IN IRS CONCRETE BRIDGE CODE.

13. ALL CEMENT CONC. IS TO BE MECHANICALLY MIXED & VIBRATED.

14. CONCRETE MIX SHALL BE AS PER DESIGN FOR FOUNDATION AND M-35 FOR PRECAST RCC DECK SLAB

15. HSD/TMT BARS CONFORMING TO IS 1786:2000 SHALL BE USED.

16. BEFORE EXECUTION OF WORK I.E. EXCAVATION FOR FOUNDATION & FABRICATION OF STEEL WORKS, CONCERNED SUPERVISION SHALL ENSURE THAT THERE IS NO MISMATCH IN GAD W.r.t. SITE & THERE IS NO INFRAEGRMENT TO SOD. PROPER LAYOUT AS PER GAD SHALL ALSO BE MARKED AT SITE AT THE PROPOSED LOCATION TO VERIFY THE CORRECTNESS OF GAD W.r.t. SITE. IF THERE IS ANY AMBIGUITY IN GAD W.r.t. SITE, THE SAME SHOULD BE BROUGHT IN THE FORM OF HO BRIDGE DESIGN CELL.

17. MINOR MODIFICATIONS MAY BE MADE AT SITE/WORKSHOP IN CONSENT WITH ENGINEER INCHARGE.

18. PROTECTIVE SCREEN WILL BE PROVIDED AT THE LOCATION OF ALL ELECTRIFIED LINES AS PER ROSO DRG. NO. ETTC/0068.

19. ALL STEEL WORKS SHALL BE AS PER IRS STEEL BRIDGE CODE.

20. ALL STEELS FOR ORDERS SHALL BE E350, GRADE AS PER IS 2062-2011. RECTANGULAR OR SQUARE HOLLOW STRUCTURAL PIPES OF GRADE YST 310 OR HIGHER TO BE USED AS PER IS:4923-1997

21. ADEQUATE PROTECTION SHOULD BE DONE & ENG. INDICATORS DISPLAYED IN ACCORDANCE WITH P.

22. IR IN DRAIN LINE (LINE NO. 3) IS HIGHEST TRACK WHICH LEVEL HAS BEEN ASSUMED AS 100.04 M

23. SOIL BEARING CAPACITY SHOULD BE CONFIRMED BY CONDUCTING PLATE LOAD TEST BEFORE EXECUTION. ALLOWABLE BEARING CAPACITY OF SOIL SHALL BE TAKEN AS PER DESIGN OF FOUNDATION. IF SITE SOIL IS HAVING LOWER BEARING CAPACITY, THE FOUNDATION DESIGN SHOULD BE ALTERED WITH THE APPROVAL OF COMPETENT AUTHORITY.

24. FABRICATION TO CONFORM AS PER B1-2001 SPECIFICATION & IRS WELDED BRIDGE CODE.

25. ALL WELDS TO CONFORM TO IS:15816:1989 & IS-9595.

26. AUTOMATIC SUBMERGED ARC WELDING (SAW) SHOULD BE DONE IN FILLET WELDS OF CONNECTION OF FLANGE TO WEB OF MAIN ORDER. OTHER WELDS SHOULD ALSO BE DONE BY SUBMERGE ARC WELDING TO THE MAXIMUM EXTENT POSSIBLE. FLOW OR GMAW WELDING MAY BE DONE IN CASES WHERE SAW WELDING IS NOT POSSIBLE.

27. ALL BOLTS ARE OF STEEL WITH F_y = 250 MPa, UNLESS OTHERWISE STATED.

28. SEISMIC ZONE-IV. EXPOSURE CATEGORY-MODERATE,BASIC WIND SPEED-VI @ 150M/S.

29. FLOORING MATERIAL FOR STAIRS & GANGWAY WOULD BE BURNT GANISS WITH GROOVED LINING, ROOF TRUSS WITH TUBULAR MEMBER, ALL STEEL MEMBERS WILL BE GALVANISED. ROOFING MATERIAL SHALL BE AS PER ROSO DRAWING SPECIFICATIONS.

30. HAND RAILING SHOWING THE FOLLOWING DIMENSIONS IS INDICATIVE ONLY. IMPROVED TYPE OF SIDE RAILING WITH STAINLESS STEEL MATERIAL OR TOUCHED GLASS MAY BE ADOPTED. SIDE RAILING SHOULD BE AESTHETICALLY GOOD AND ERGONOMIC. ENGINEER-IN-CHARGE SHOULD DECIDE ABOUT THE SIDE RAILINGS TO BE PROVIDED, CONSIDERING THESE FACTORS.

31. THE STRUCTURE OF FOB TO BE EXECUTED BY BRIDGE WORKSHOP ON WORK ORDER FROM OPEN LINE AFTER APPROVAL OF GAD.

32. THE STRUCTURE OF FOB TO BE AS PER REFERENCED ROSO DRAWINGS.

33. ROOFING SHALL BE 1 MM THICK ZINC COATED CORRUGATED G.S. SHEET.

34. LAUNCHING SCHEM WILL BE PREPARED IN THE TIME AND APPROVAL FROM HO WILL BE OBTAINED.

35. LENGTH OF WALKWAY TO BE PROVIDED WITH TACTICAL GUIDING AND WARNING BLOCKS. WALKWAY SHOULD ALSO BE FREE OF OBSTRUCTIONS AND PROJECTIONS.

36. WARNING BLOCKS TO BE INSTALLED AT THE BEGINNING AND END OF ALL FLIGHTS OF STAIRCASE. STEP EDGES SHOULD ALSO BE OF DIFFERENT COLOUR AND TEXTURE. EASILY IDENTIFIABLE BY LOW VISION & VISUAL IMPAIRED PERSONS.

37. HANDRAIL SHOULD BE EASY TO GRIP & SECURELY ATTACHED & SLP RESISTANT WITH ROUND ENDS. HANDRAILS TO EXTEND TO THE TOP & BOTTOM OF EVERY STAIRCASE. HANDRAIL TO BE GROUTED IN THE GROUND.

38. RAMP SHALL HAVE A SLOPE OF 1:12.

39. FEASIBILITY OF THE PROJECT SHALL BE CHECKED AT SITE IN EVERY RESPECT BY ENGINEER/INCHARGE BEFORE FABRICATION/ERRECTION. IF THERE IS ANY CONFSION/AMBIGUITY IN DIFFERENT DIMENSIONS PROVIDED IN THESE DRAWINGS, A FULL SCALE LAY OUT SHOULD BE PREPARED FOR THE VERIFICATION OF THE SAME BEFORE START OF EXECUTION OF THE WORK.

40. BEFORE THE FABRICATION WORK IS TAKEN UP, RIDER PIECES TO BE FABRICATED (ALONG WITH ITS EXACT DIMENSIONS) & THEIR NUMBERS SHALL BE WORKED OUT. MOREOVER, EXACT DIMENSIONS AND THEIR NUMBERS OF OTHER COMPONENTS SUCH AS BRACINGS, X-ORDERS, MAIN COLUMNS, STAIR ORDER ETC. ALSO BE WORKOUT IN ORDER TO AVOID ANY PROBLEM AT LATER STAGE.

41. EXCAVATED EARTH SHALL NOT BE USED FOR BACK FILLING AROUND FOUNDATIONS. ALL BACK FILLING SHALL BE CARRIED OUT USING GRANULAR SOIL (MORUUM). BACK FILLING SHALL BE LAID IN LAYERS NOT EXCEEDING 300MM AND SHALL BE COMPACTED TO 85% PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.

42. ALL HOLLOW COLUMNS SHALL BE FILLED WITH SELF COMPACTING CONCRETE OF MINIMUM GRADE OF M-20. THIS FILLING IS DONE TO ENSURE FIRE SAFETY AND PROTECTION FROM INSIDE CORROSION. STRUCTURE DESIGN IS SAFE WITHOUT THIS FILLING.

43. THICKNESS OF DECK SLAB AND FLOOR FINISH SHALL NOT EXCEED 150MM.

44. ALL INSTRUCTIONS/GUIDE LINES AND SPECIFICATIONS GIVEN IN REFERRED ROSO DRAWINGS SHALL BE FOLLOWED IN TRUE IN TRUE SPIRIT.

DRM-UMB

MANDEEP SINGH BHATIA Digitally signed by MANDEEP SINGH BHATIA
Date: 2023.05.17 11:08:19 +05'30'

CBE/NR

BRAHMKSHAN SINGH TOMAR Digitally signed by BRAHMKSHAN SINGH TOMAR
Date: 2023.10.06 03:43:42 +05'30'

ADRM-INFRA-UMB

GUNINDER SINGH NARANG Digitally signed by GUNINDER SINGH NARANG
Date: 2023.05.17 10:46:41 +05'30'

CE/SD/NR

MONA SRIVASTAVA Digitally signed by MONA SRIVASTAVA
Date: 2023.09.06 04:49:28 +05'30'

CPM-GS-UMB

VINOD KUMAR SINGH Digitally signed by VINOD KUMAR SINGH
Date: 2023.05.17 19:36:07 +05'30'

CCM/PS/NR

BARJESH DHARMANI Digitally signed by BARJESH DHARMANI
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SROEE-G-UMB

MANISH NARWAL Digitally signed by MANISH NARWAL
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DY,CE/SD/NR

KAUSHAL KISHORE SHARMA Digitally signed by KAUSHAL KISHORE SHARMA
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SRDEN-CO-UMB

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DY,CE/BD/NR

SANVIY KUMAR GARG Digitally signed by SANVIY KUMAR GARG
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SRDSTE-UMB

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SROEE-G-UMB

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SRODCM-UMB

RITIKA VASHISHT Digitally signed by RITIKA VASHISHT
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SRDEN-CO-UMB

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SRODM-UMB

SAMARTH GUPTA Digitally signed by SAMARTH GUPTA
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SROEE-TRD-UMB

ANKUR JAIN Digitally signed by ANKUR JAIN
Date: 2023.05.16 04:12:53 +05'30'

SRDEN-3-UMB

HIMANSHU Digitally signed by HIMANSHU
Date: 2023.05.16 03:39:59 +05'30'

DIVN. OFFICERS

AMBALA DIVISION

GENERAL ARRANGEMENT PLAN FOR PROPOSED 12.0 M WIDE FOOT OVER BRIDGE AT KALKA RAILWAY STATION UNDER AMRIT BHARAT STATION SCHEME

HQ OFFICERS

DRAWING: MR. ANKUSH, SDE/JR, CHECKED BY:

SCALE: 1:200 & 1:100

N.R.DIVL.CASE NO.

62-W/18/SML/2023-24

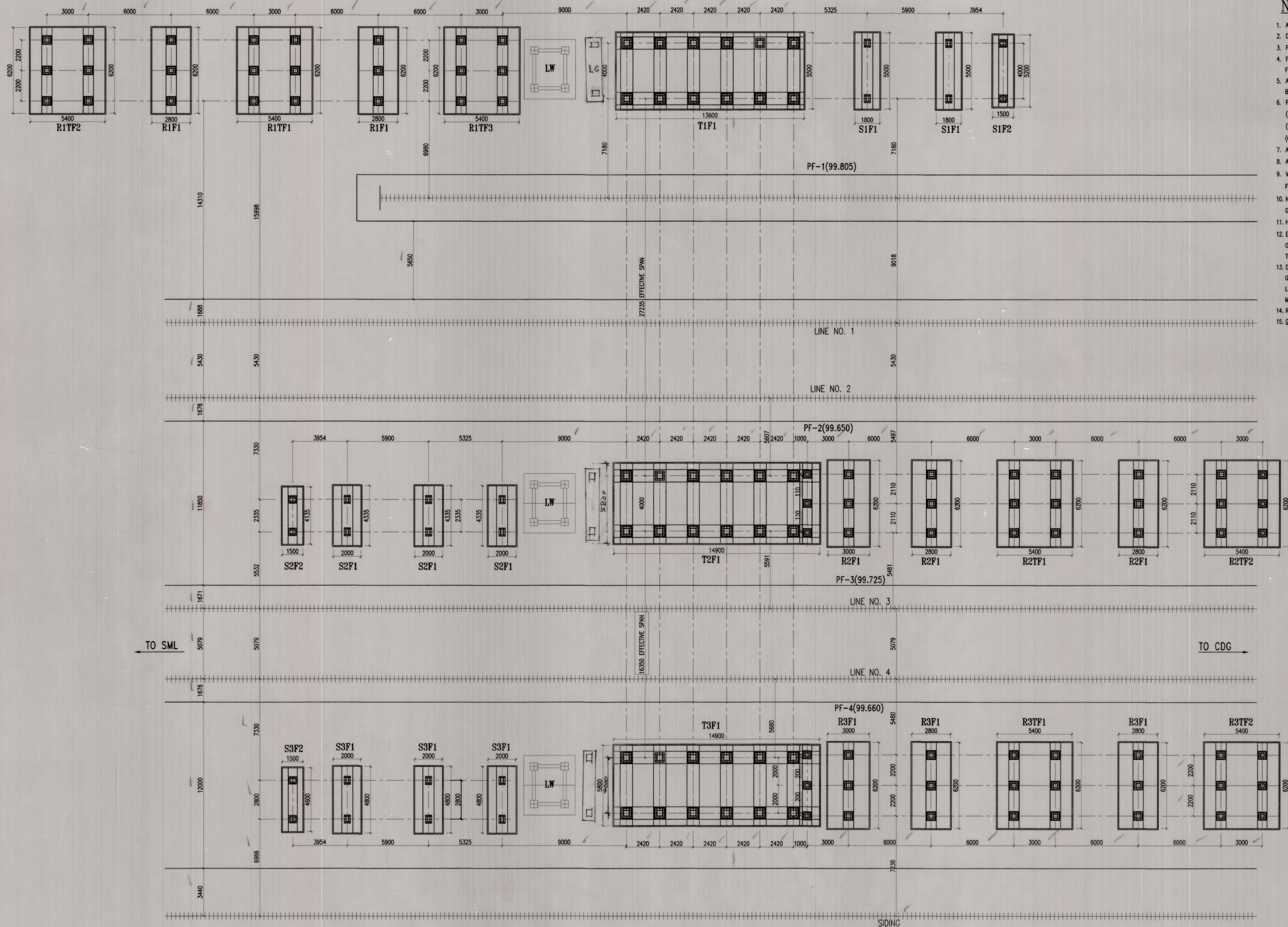
N.R.H.Q.E. CASE NO.

NR DIVL. PLAN NO.

FOB-80/CLK-2023/UMB

NRHQE PLAN No. -

FB-107/UMB



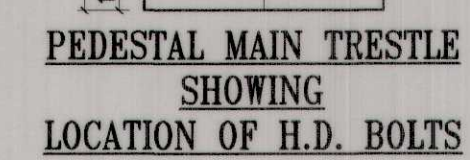
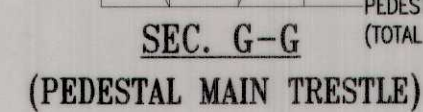
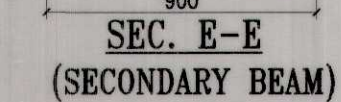
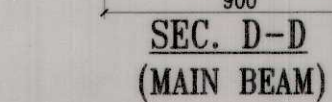
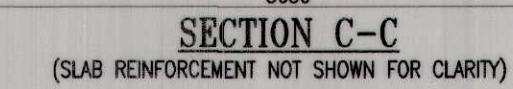
NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
3. FOUNDATION PLAN IS BASED ON APPROVED CAD 1:6 NRHQ PLAN NO. FB-107/UMB.
4. FEASIBILITY OF THE FOUNDATIONS TO BE VERIFY BY THE ENGINEER IN CHARGE BEFORE EXCAVATION OF FOUNDATIONS.
5. ALL R.C.C. WORK IS TO BE DONE IN ACCORDANCE WITH LATEST NORTHERN RAILWAY SPECIFICATIONS & IRS CONC. BRIDGE CODE CORRECTED UPTO DATE.
6. PARTICULAR CARE MUST BE TAKEN TO ENSURE THAT:
 - (a) NO SAG OCCURS IN REINFORCEMENT DURING EXECUTION OF WORK.
 - (b) MINIMUM 50 mm CLEAR COVER TO REINFORCEMENT TO BE MAINTAINED IN FOUNDATION & PEDESTAL.
 - (c) LAP LENGTH WHERE BARS OBTAINED ARE OF SHORTER LENGTH MUST NOT BE LESS 42 TIMES DIA OF BAR.
7. ALL CEMENT CONC. IS TO BE MECHANICALLY MIXED AND VIBRATED.
8. ALL BINDERS/STIRRUPS/LINKS SHALL BE EFFECTIVELY TIED WITH MAIN REINFORCEMENT BARS.
9. VIBRATED CONTROLLED CONCRETE OF MINIMUM COMPRESSIVE STRENGTH OF 250 KG/CM² (M-25) TO BE USED FOR FOOTING EXCEPT COL. PEDESTALS. FOR COL. PEDESTALS, CONC. OF GRADE (M-30) 300 KG/CM² TO BE USED.
10. NET BEARING CAPACITY OF SOIL IS 0000 T/m² AS PER SOIL REPORT IT SHOULD BE RE-CONFORMED AT THE TIME OF EXECUTION.
11. HSD/TMT BARS OF GRADE Fe-500 CONFORMING TO IS:1786-2000 SHALL BE USED.
12. ENGINEER INCHARGE SHOULD ENSURE THE LOCATIONS/DIA/LENGTH OF HOLDING DOWN BOLTS DURING CONCRETING OF FOUNDATIONS. HOLDING DOWN BOLTS SHOULD BE PLACED PROPERLY AT DESIRED LOCATIONS AND MATCH WITH THE BASE PLATE OF COLUMNS.
13. DEPTH OF FOUNDATION BELOW GROUND LEVEL SHOWN IN DRAWING FOR DIFFERENT FOUNDATIONS IS THE MINIMUM GRIP LENGTH OF FOOTING IN THE GROUND. IF ANY LOCATION THE GROUND IS FOUND LOWER THAN THE GROUND LEVEL SHOWN IN THE DRAWING, THEN BOTTOM OF FOUNDATION SHOULD BE ACCORDINGLY LOWERED TO HAVE MINIMUM GRIP LENGTH.
14. READ THIS DRAWING IN CONJUNCTION WITH OTHER RELEVANT SHEETS.
15. GENERAL ARRANGEMENT TO BE CORRECTED AS PER FOUNDATION PLAN TO AVOID THE INFREINGEMENT

FOR	SEE
GENERAL ARRANGEMENT	NRHQ PLAN NO. FB-107/UMB
FOUNDATION LAYOUT PLAN	SHEET No-2
DETAIL OF TRESTLE FOUNDATION	SHEET No-3A, 3B
DETAIL OF STAIRCASE FOUNDATIONS	SHEET No-4A, 4B
DETAIL OF RAMP FOUNDATIONS	SHEET No-5A, 5B, 5C
FOUNDATION OF LIFT WELL (LW)	BASED ON PLAN NO. NRHQE(P)-266-FB/2016 SHEET NO. 2
FOUNDATION OF LIFT COLUMN (LC)	BASED ON PLAN NO. NRHQE(P)-266-FB/2016 SHEET No. 1

S.NO.	REVISION	DATE	APPROVED
REVISION			

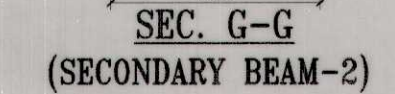
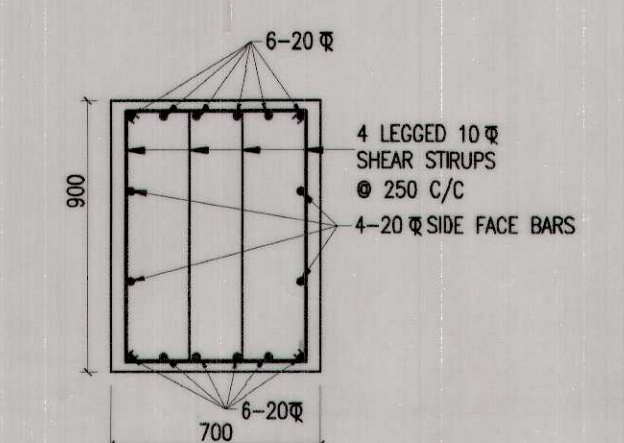
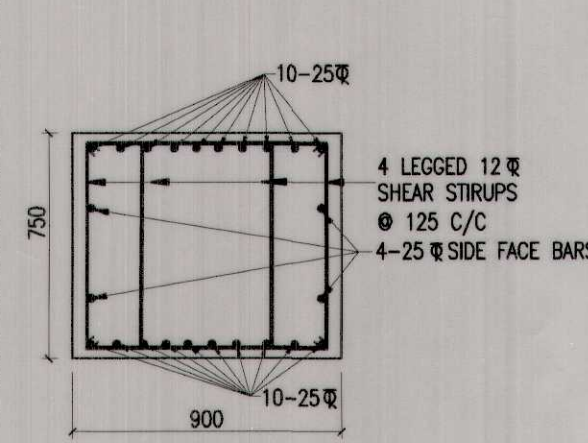
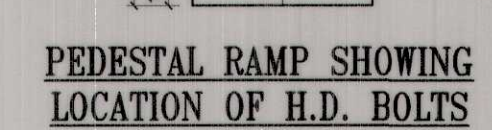
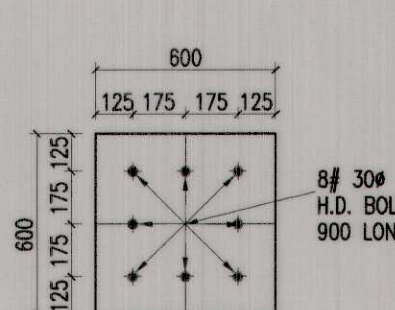
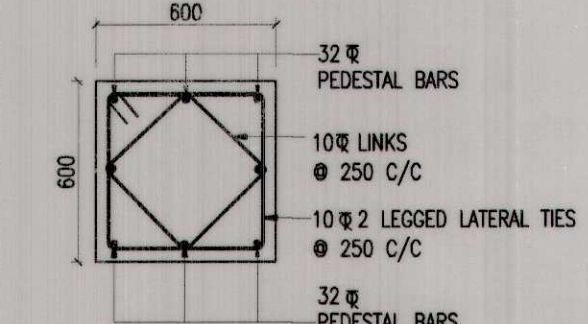
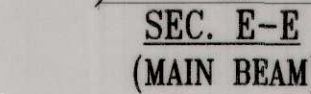
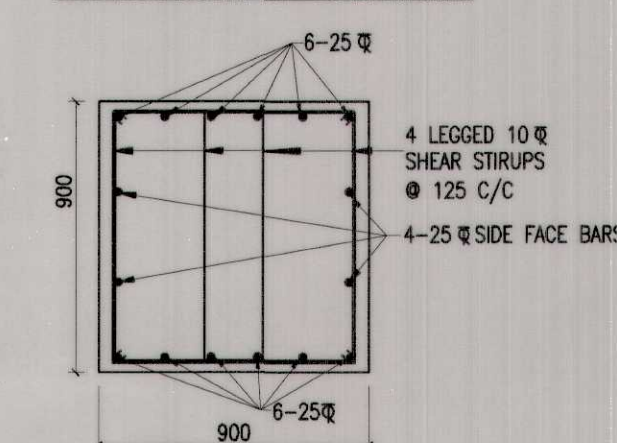
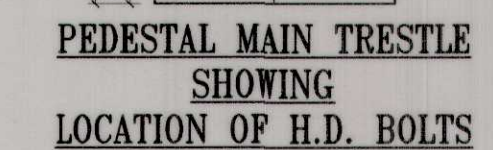
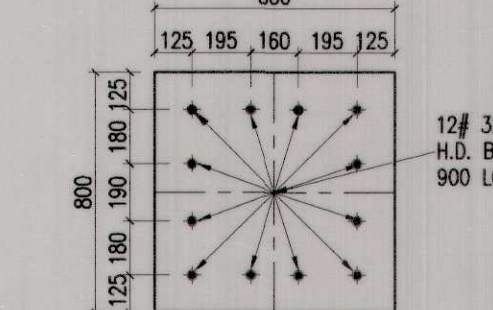
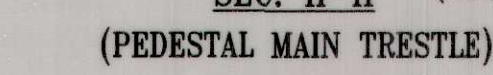
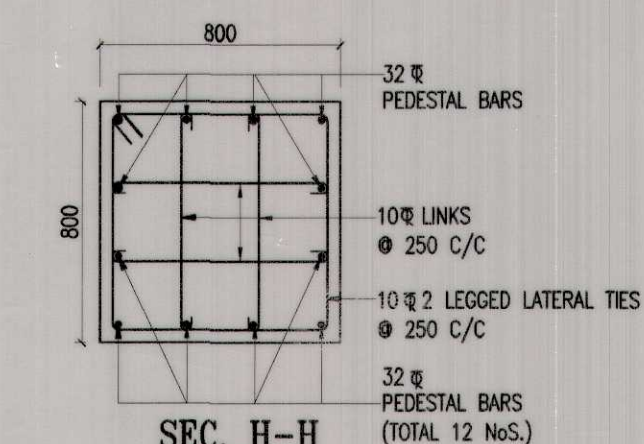
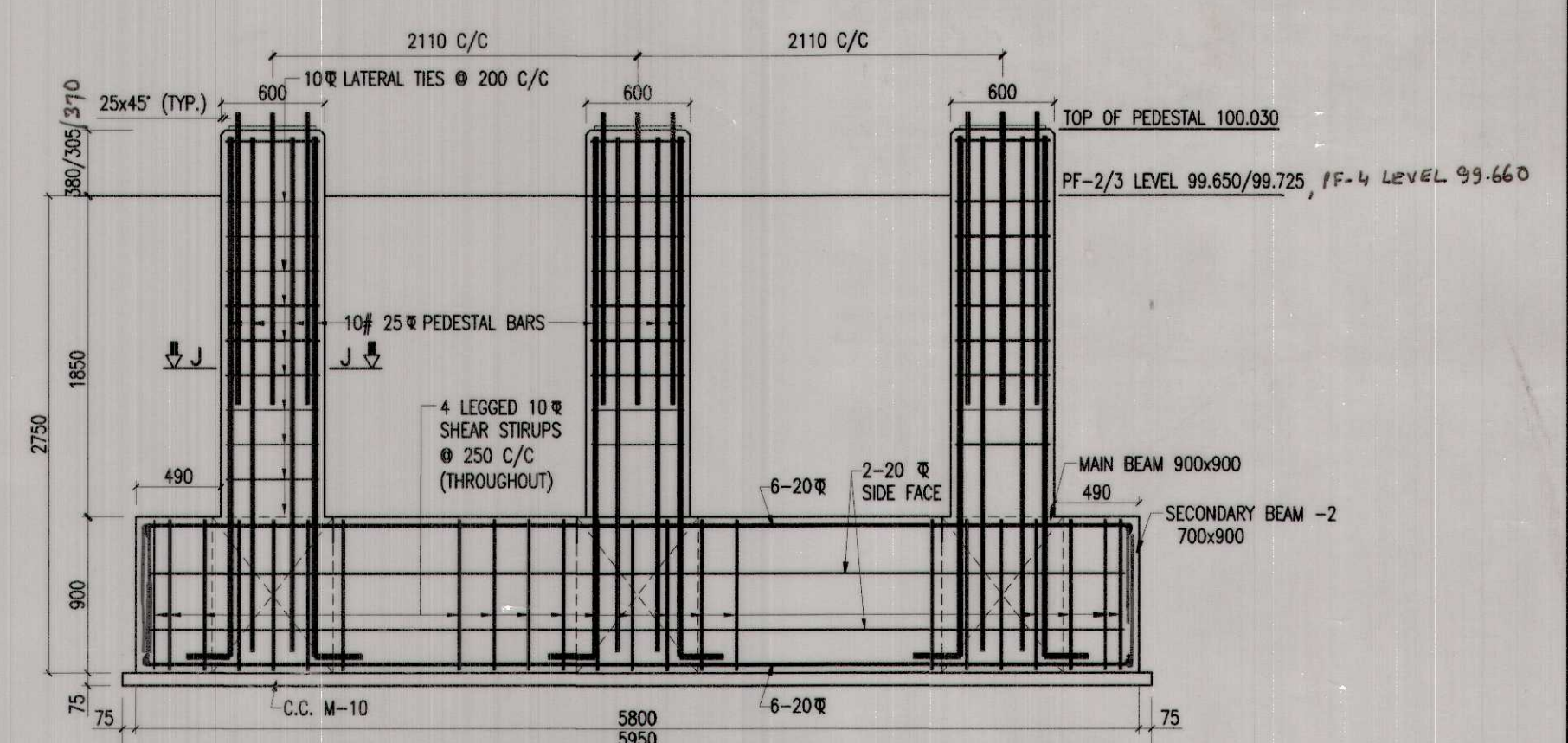
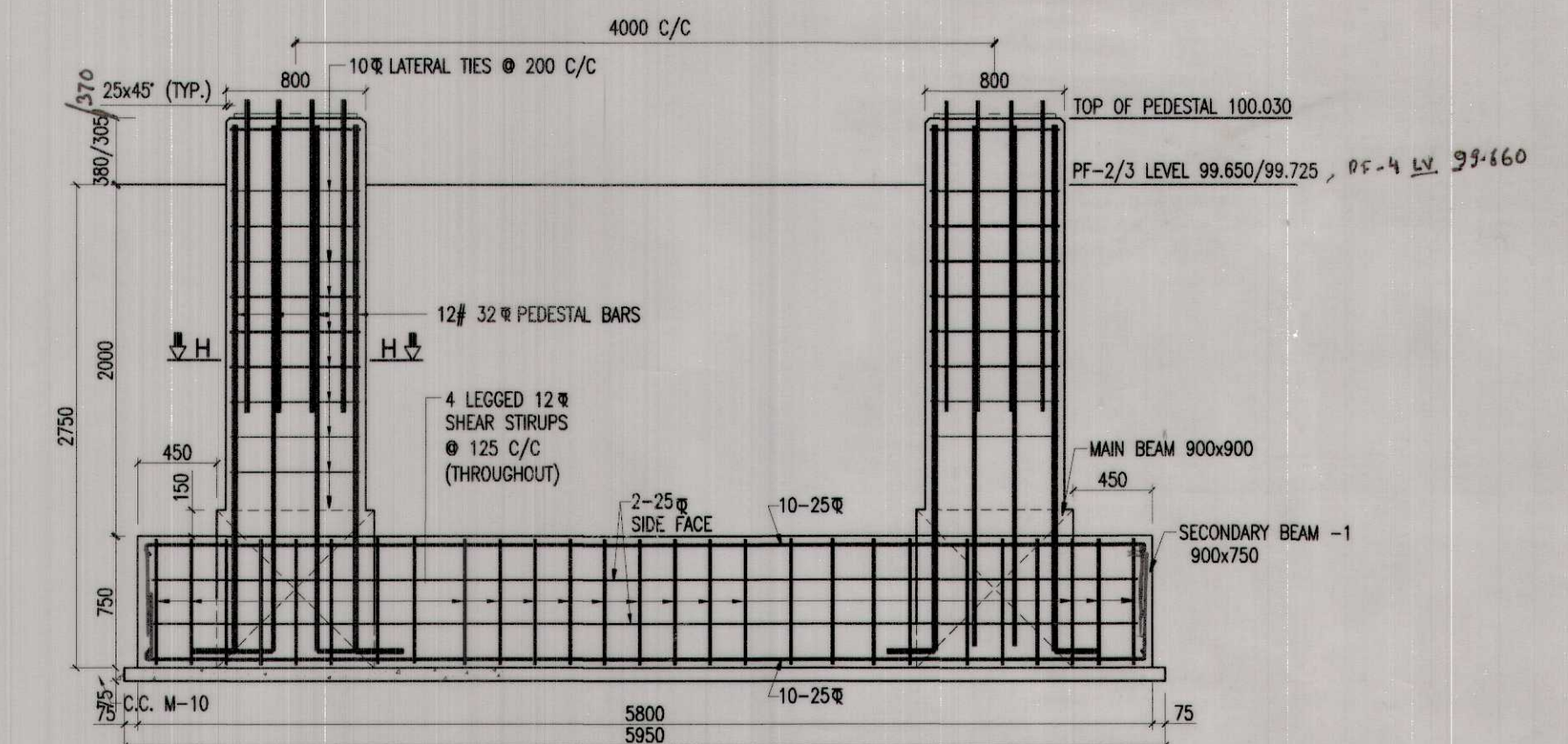
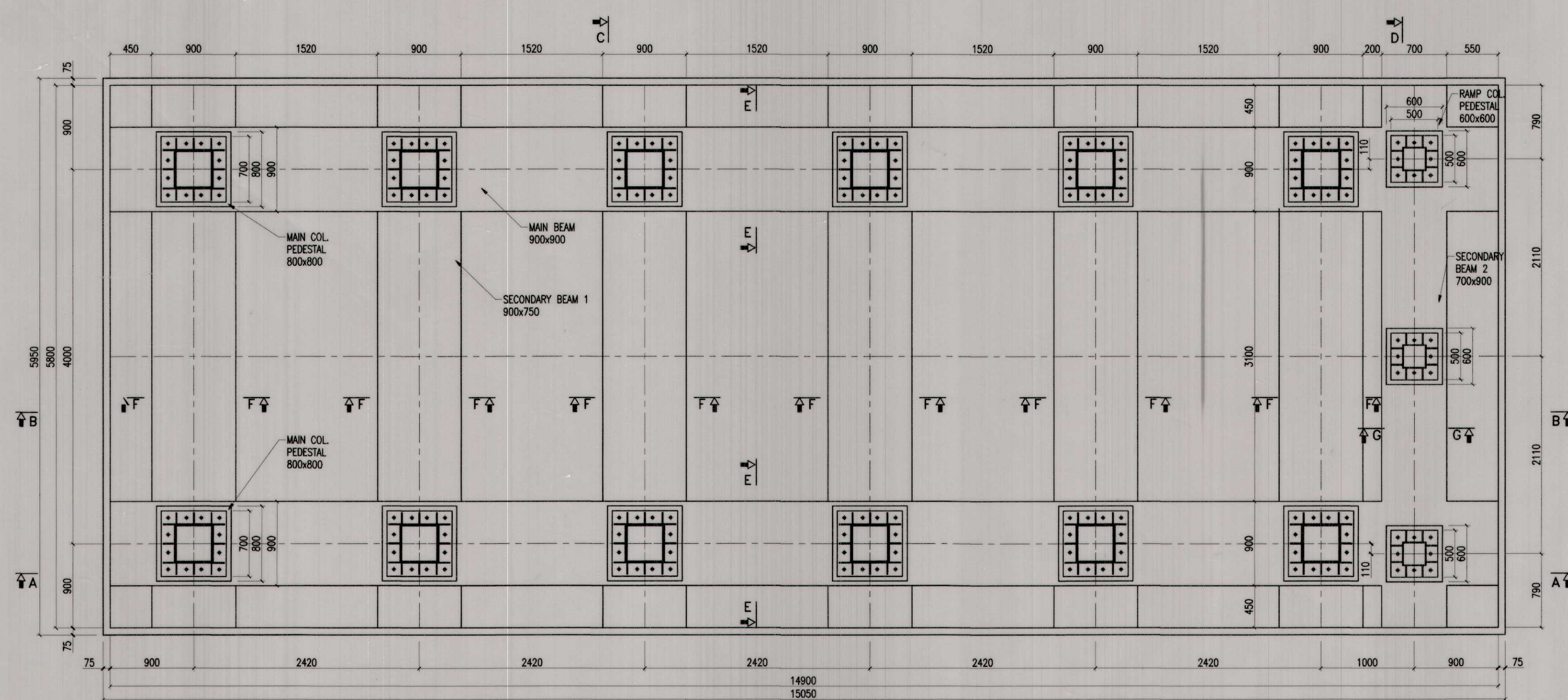
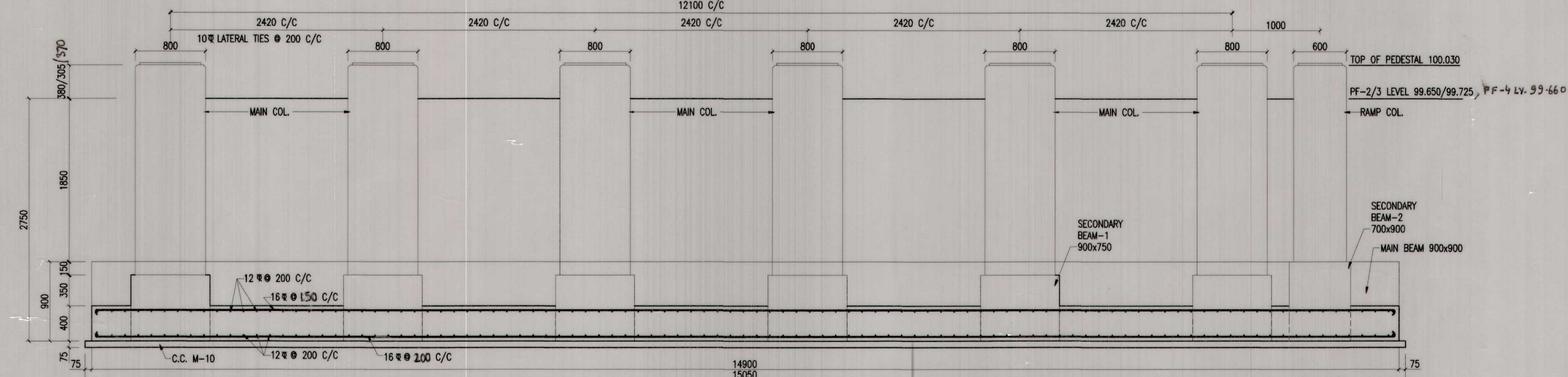
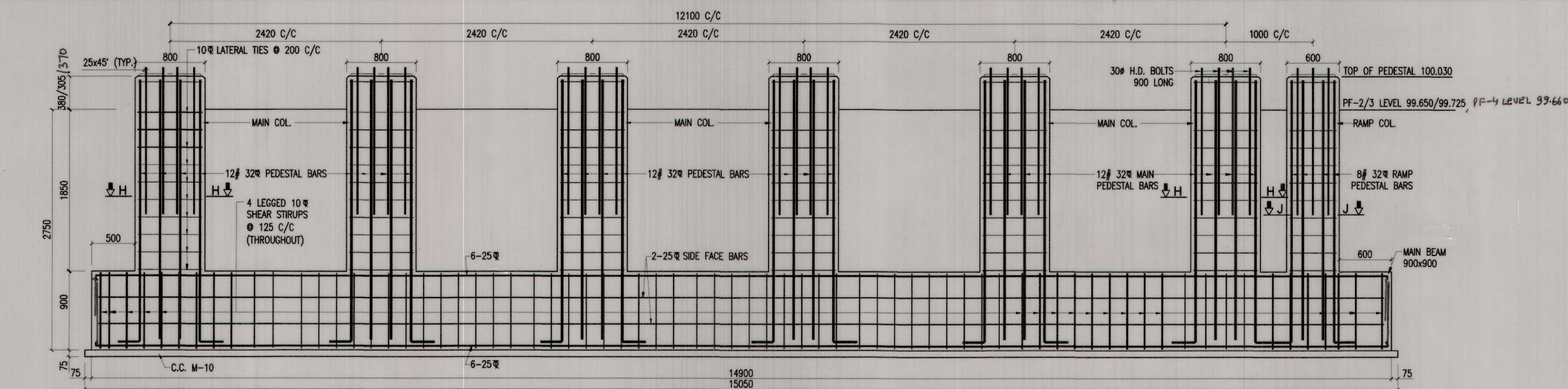
AGENCY		AMBALA DIVISION	
SR. DEN-3/UMB		PROPOSED 12.0 M WIDE FOOT OVER BRIDGE	
ADEN/SML		AT KALKA RAILWAY STATION	
SSE/W/KLK		UNDER AMRIT BHARAT STATION SCHEME	
DIVISIONAL OFFICERS		FOUNDATION LAYOUT PLAN	
H.Q. OFFICERS		DIVL. PLAN NO. FOB-168/KLK-2023/UMB	
SCALE-1:35		NRHQ PLAN No. FB-107/UMB	
		(SHEET No-2)	



1. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
3. FOR OTHER NOTES REFER SHEET NO. 1
4. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT SHEETS.

FOR	SEE
GENERAL ARRANGEMENT	NRHGE PLAN NO. FB-107/UMB
FOUNDATION LAYOUT PLAN	SHEET No-2
DETAIL OF RESTLE FOUNDATION	SHEET No-3A, 3B
DETAIL OF STAIRCASE FOUNDATIONS	SHEET No-4A, 4B
DETAIL OF RAMP FOUNDATIONS	SHEET No-5A, 5B, 5C


AGENCY		<div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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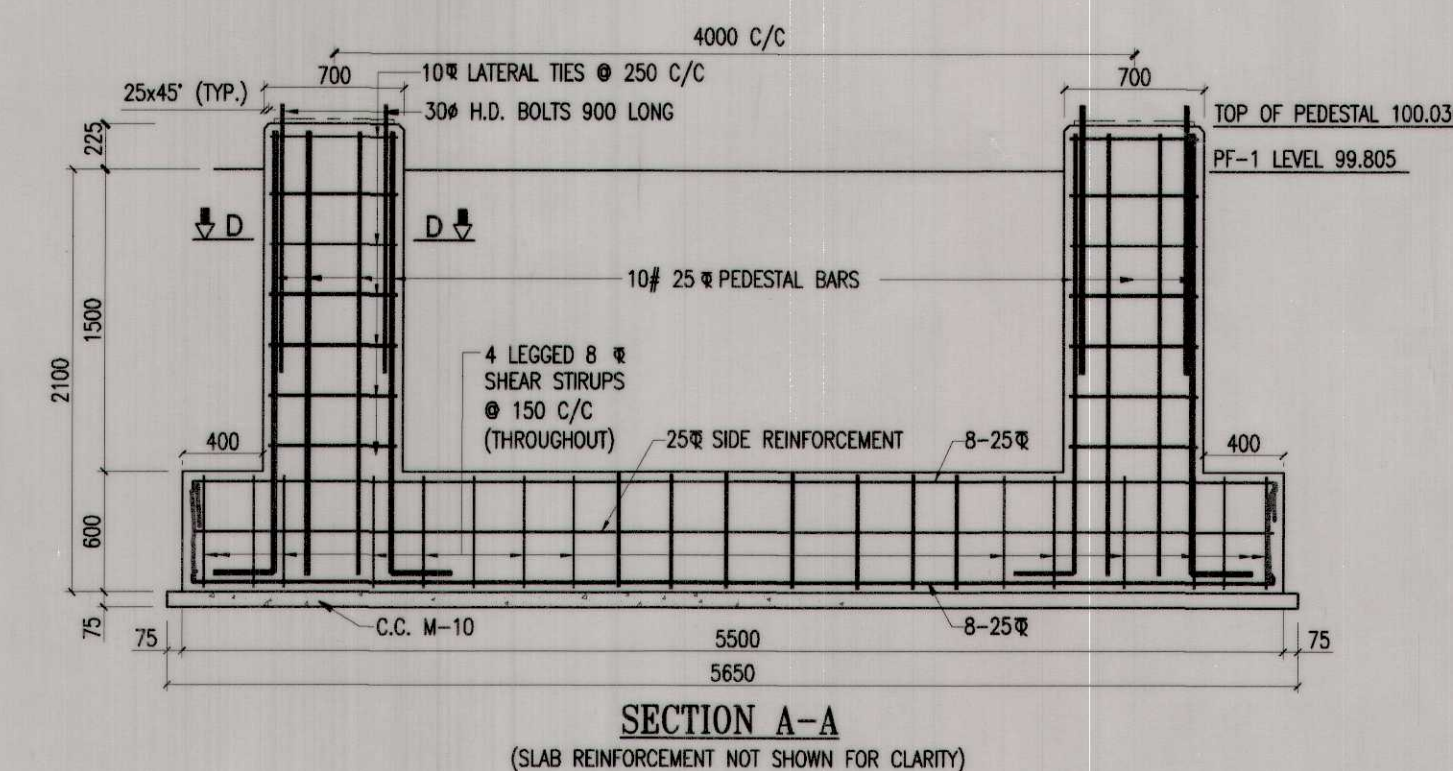


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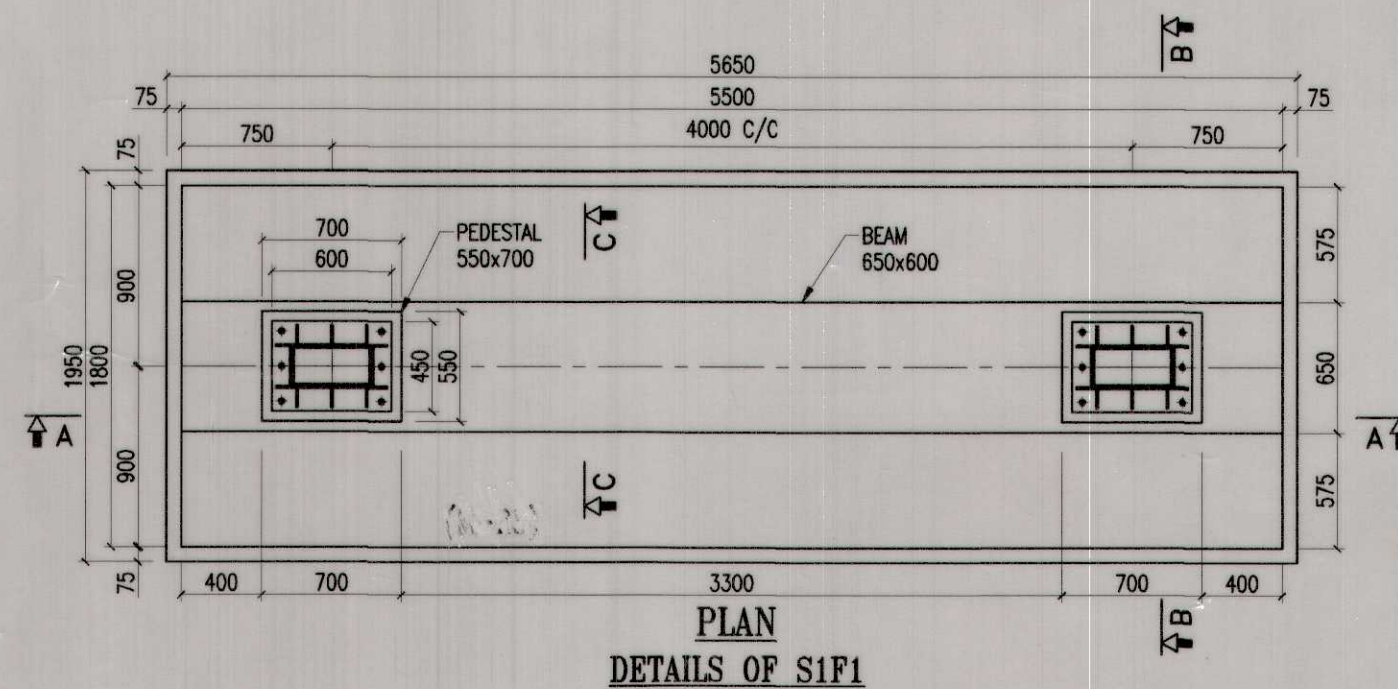
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2. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
3. FOR OTHER NOTES REFER SHEET NO. 1
4. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT SHEETS.

FOR	SEE
GENERAL ARRANGEMENT	NRHQE PLAN NO. FB-107/UMB
FOUNDATION LAYOUT PLAN	SHEET No-2
DETAIL OF TRESTLE FOUNDATION	SHEET No-3A, 3B.
DETAIL OF STAIRCASE FOUNDATIONS	SHEET No-4A, 4B
DETAIL OF RAMP FOUNDATIONS	SHEET No-5A, 5B, 5C

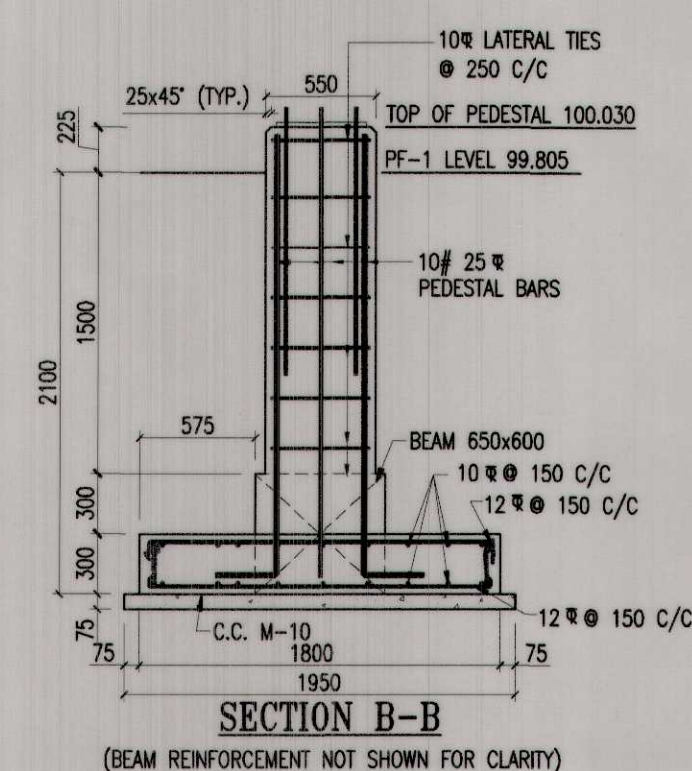
AGENCY			AMBALA DIVISION
New Single Engineers & Contractors Ravi Singh Partner	SR. DEN-3/UMB A/Singh	DT. CE/BD 1-1-23 T.K.K. Ganes	PROPOSED 12.0 M WIDE FOOT OVER BRIDGE AT KALKA RAILWAY STATION UNDER AMRIT BHARAT STATION SCHEME
DESIGN & DRAWING	A/DEN/SML Ral	A/DEN/BD SSE/DESIGN 23/12/2022 SSE/DRG.	DETAIL OF TRESTLE FOUNDATION T2F1, T3F1
	SSE/W/KLK	DIVL. PLAN NO. FOB-170/KLK-2023/UMB NRHQE PLAN No. FB-107/UMB	(SHEET No-3B)
	DIVISIONAL OFFICERS	HQ. OFFICERS	SCALE:-1:35



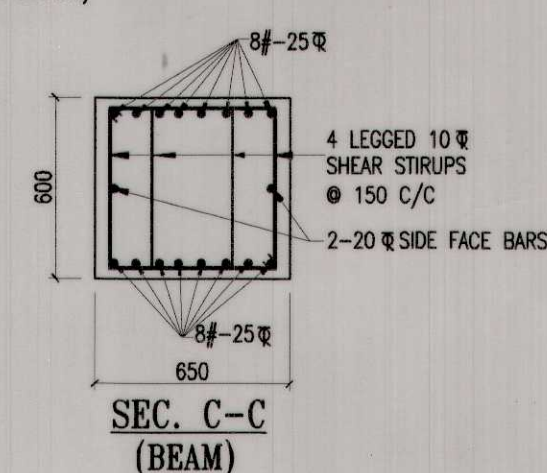
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(SLAB REINFORCEMENT NOT SHOWN FOR CLARITY)



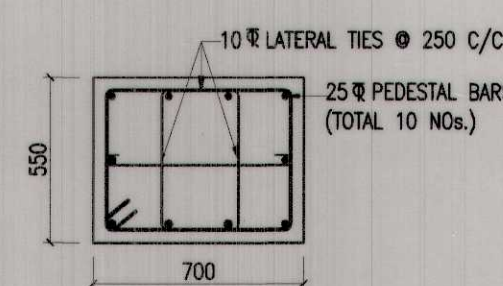
DETAILS OF S1F1



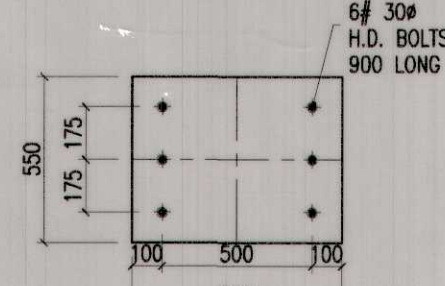
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REINFORCEMENT NOT SHOWN



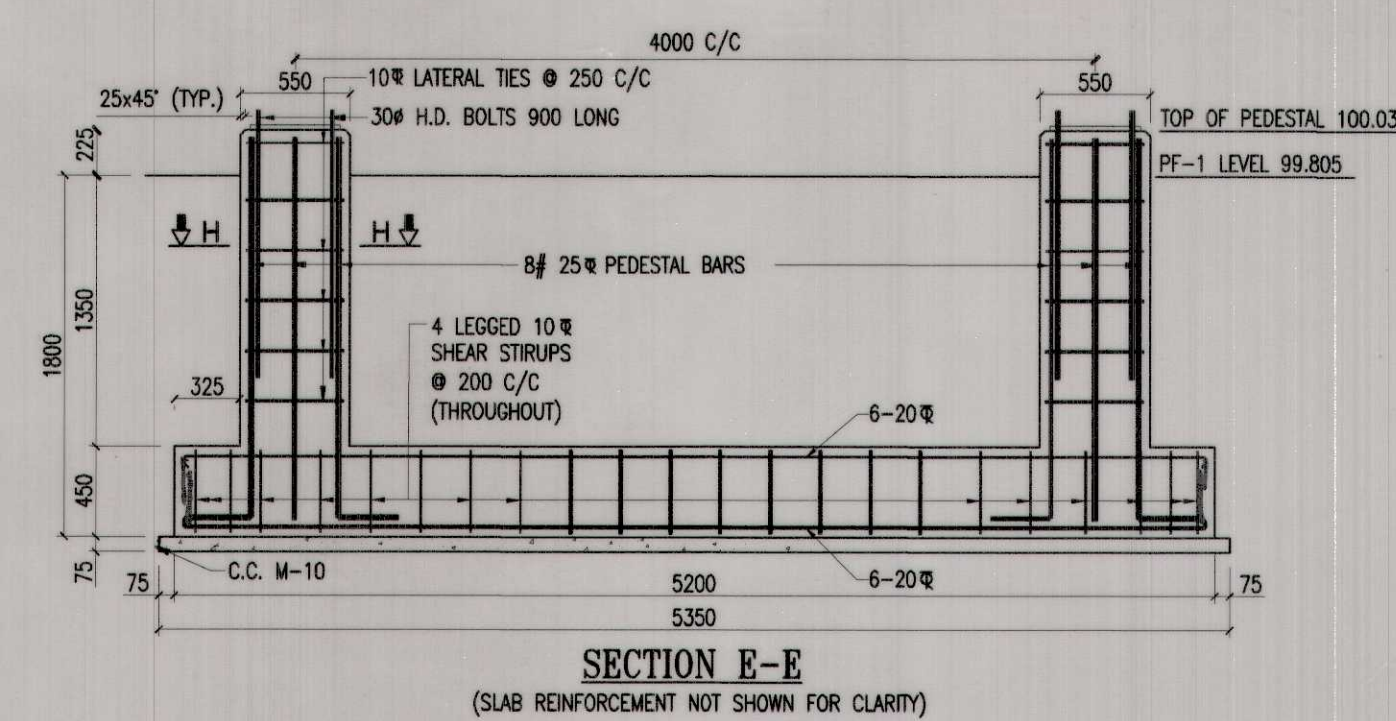
SEC. C-C
(BEAM)



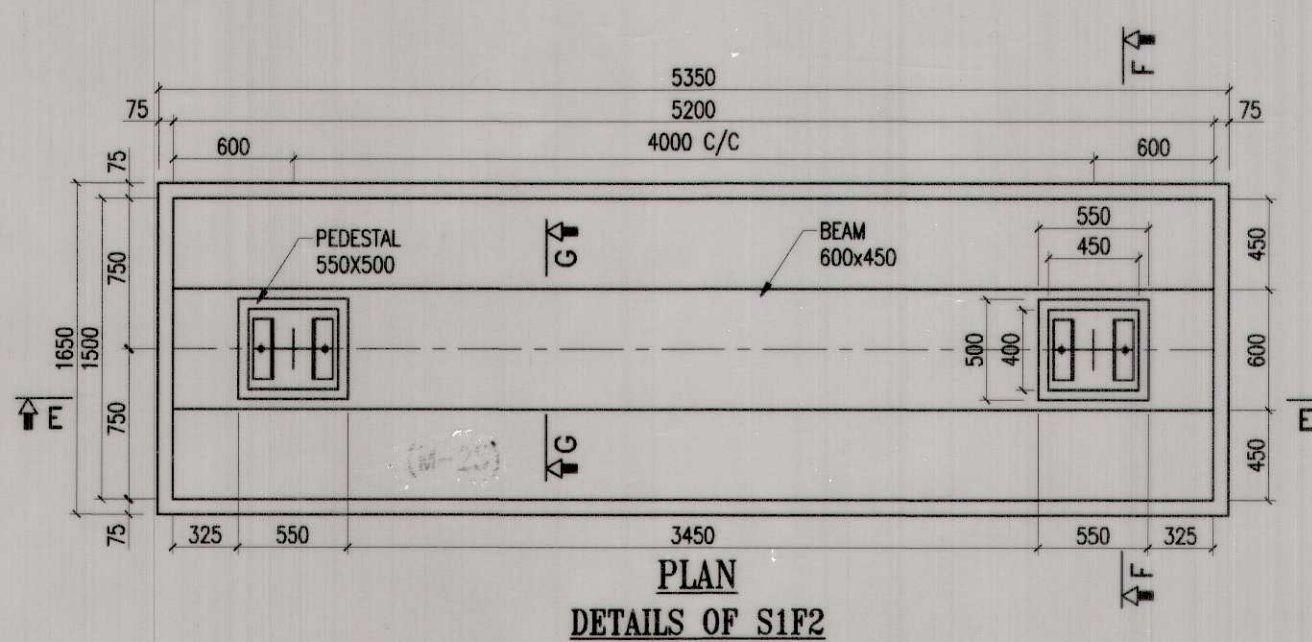
SEC. D-D
(PEDESTAL)



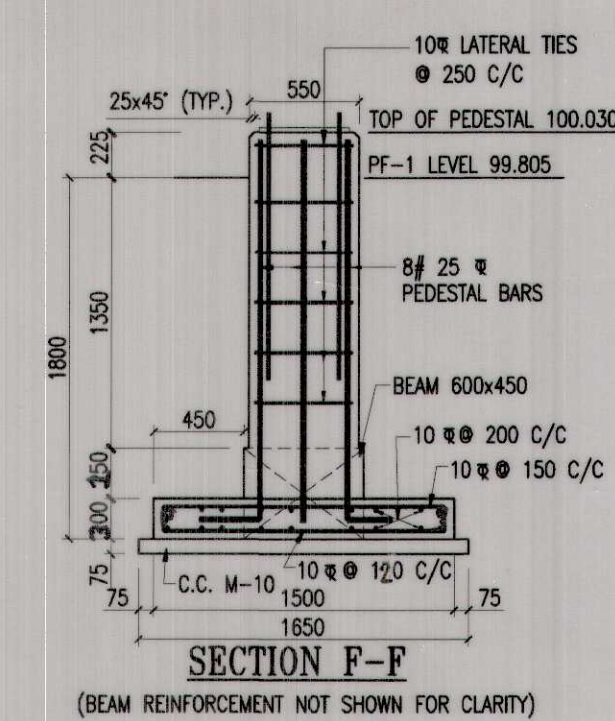
PEDESTAL SHOWING
LOCATION OF H.D. BOLTS



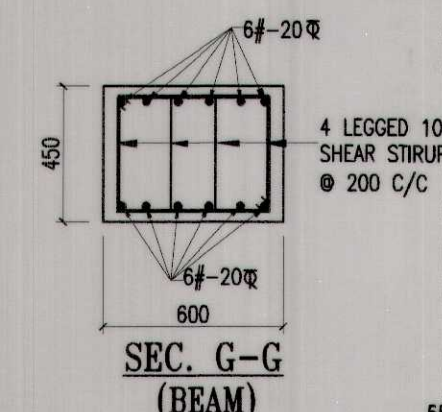
SECTION E-E
(SLAB REINFORCEMENT NOT SHOWN FOR CLARITY)



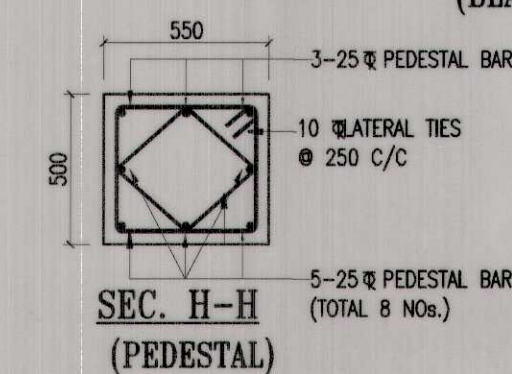
DETAILS OF S1F2



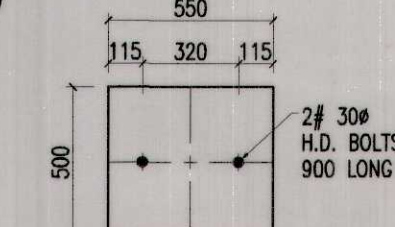
SECTION F-F
(BEAM REINFORCEMENT NOT SHOWN FOR CLARITY)



SEC. G-0
(BEAM)



SEC. H-H
(PEDESTAL



PEDESTAL SHOWING
LOCATION OF H.D. BOLTS

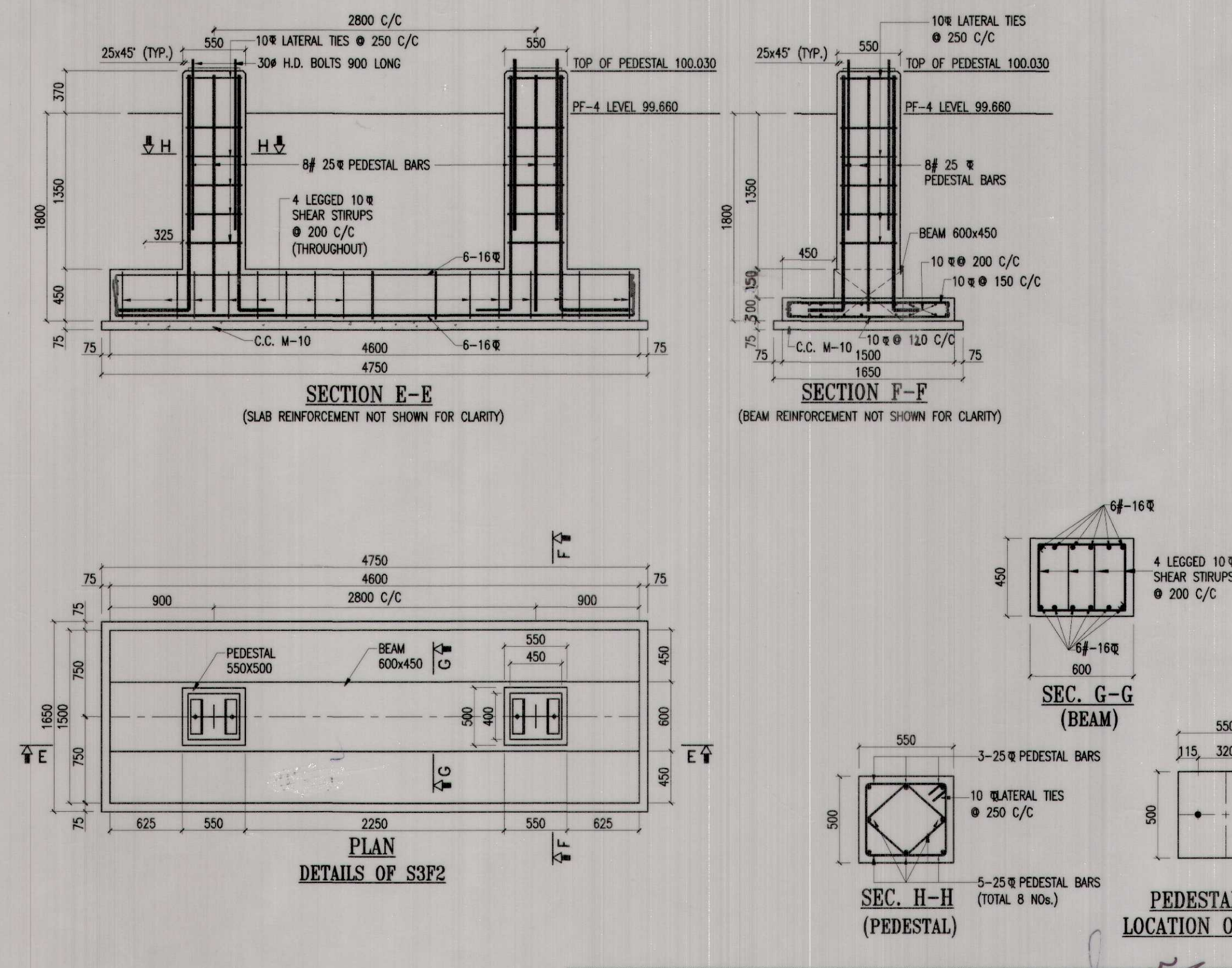
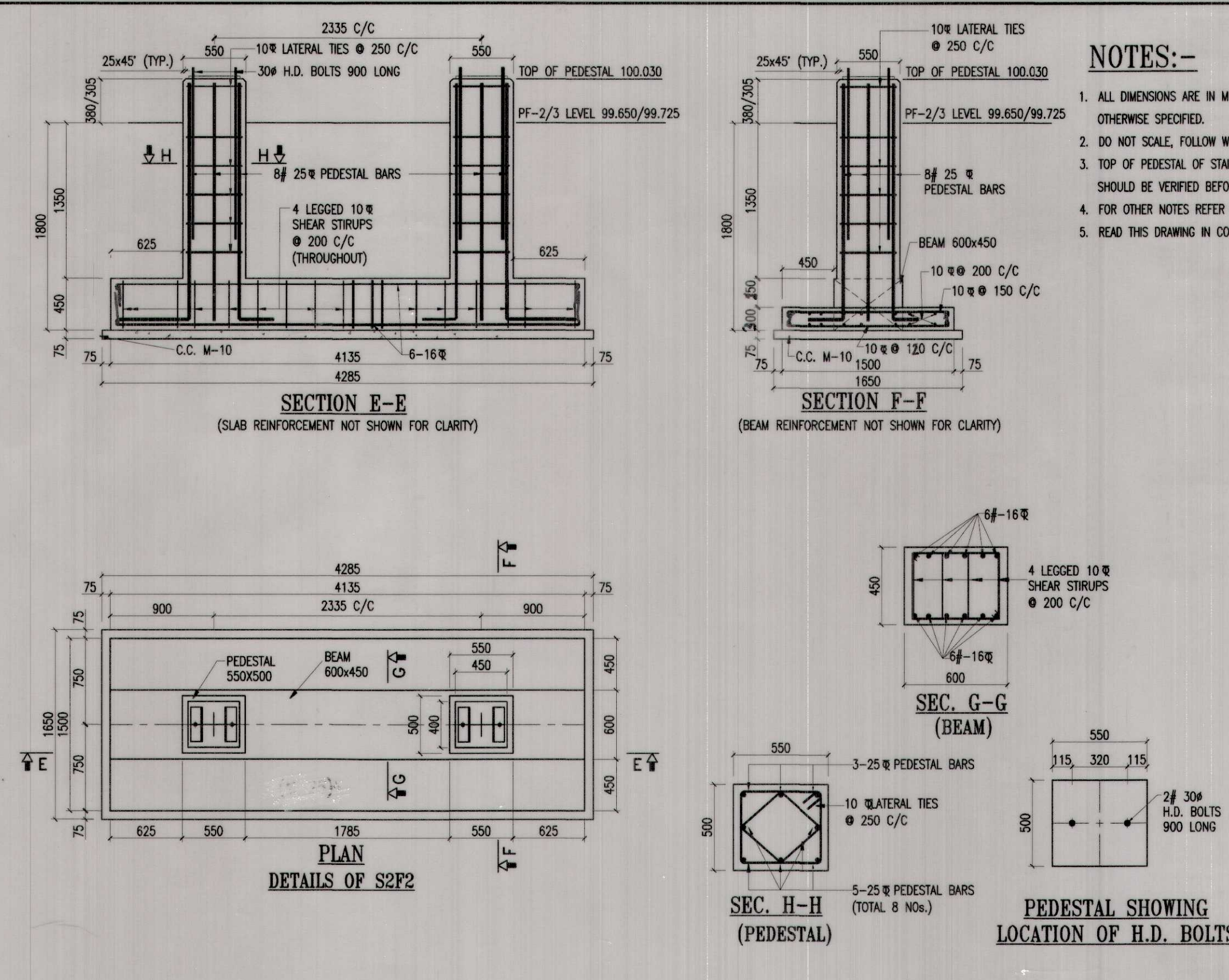
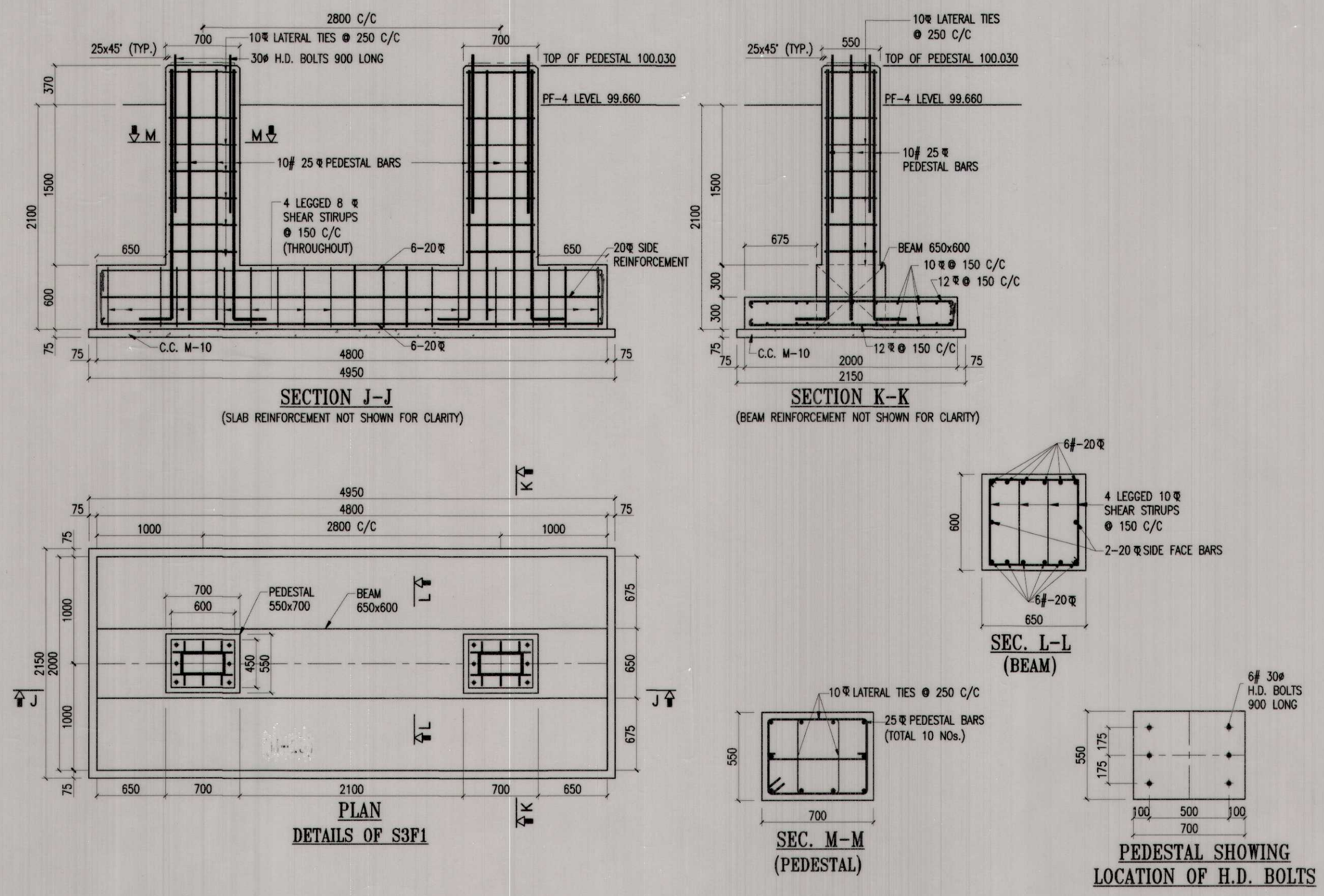
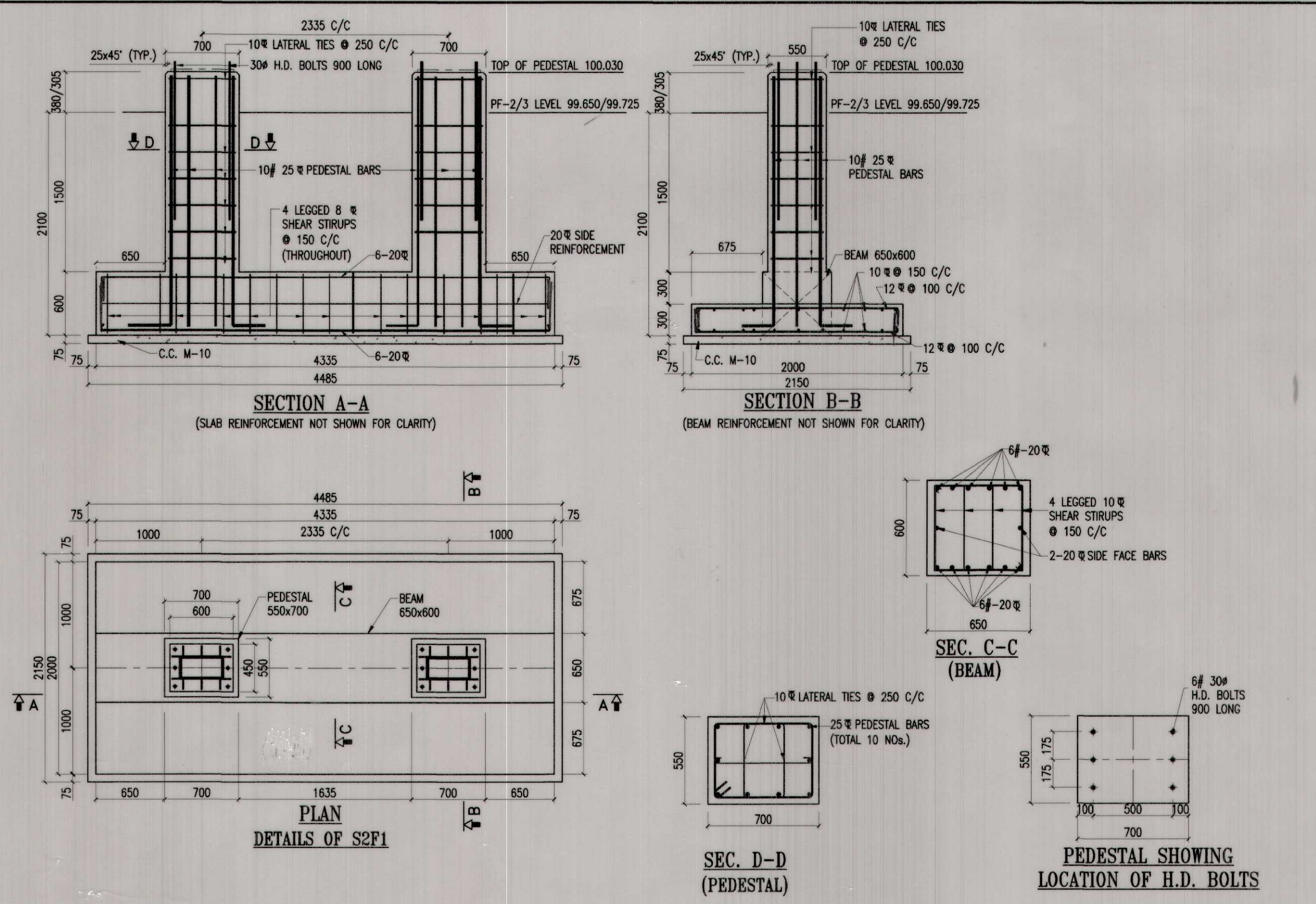
NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
3. TOP OF PEDESTAL OF STAIRCASE S1F2 & S2F2 IS INDICATIVE ONLY. IT SHOULD BE VERIFIED BEFORE CASTING OF FOUNDATIONS.
4. FOR OTHER NOTES REFER SHEET NO. 1
5. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT SHEETS.

FOR	SEE
GENERAL ARRANGEMENT	NRHQ PLAN NO. FB-107/UMB
FOUNDATION LAYOUT PLAN	SHEET No-2
DETAIL OF TRESTLE FOUNDATION	SHEET No-3A, 3B
DETAIL OF STAIRCASE FOUNDATIONS	SHEET No-4A, 4B
DETAIL OF RAMP FOUNDATIONS	SHEET No-5A, 5B, 5C

S.NO.	REVISION	DATE	APPROVE
REVISION			

AGENCY		CBE (D.D.S-TOTAL)	AMBALA DIVISION
M/S Ravi Sengupta Engineers & Contractors Ravisengupta Partner	Sr. DEN-3/UMB	DY.CE/BD C.E.K. GARGA	PROPOSED 12.0 M WIDE FOOT OVER BRIDGE AT KALKA RAILWAY STATION UNDER AMRIT BHARAT STATION SCHEME
DESIGN & DRAWING	ADEX/SMIL	AXEN/BD	DETAIL OF STAIRCASE FOUNDATIONS <u>SIF1. & SIF2</u>
	SSE/W/KLK	SSE/DESIGN	DIVL. PLAN No. F08-172/KLK-2023/UMB
	SSE/ORG.	SSE/ORG.	NRHQE PLAN No. FB-107/UMB
DIVISIONAL OFFICERS	HQ. OFFICERS	SCALE=1:35	(SHEET No-4A)

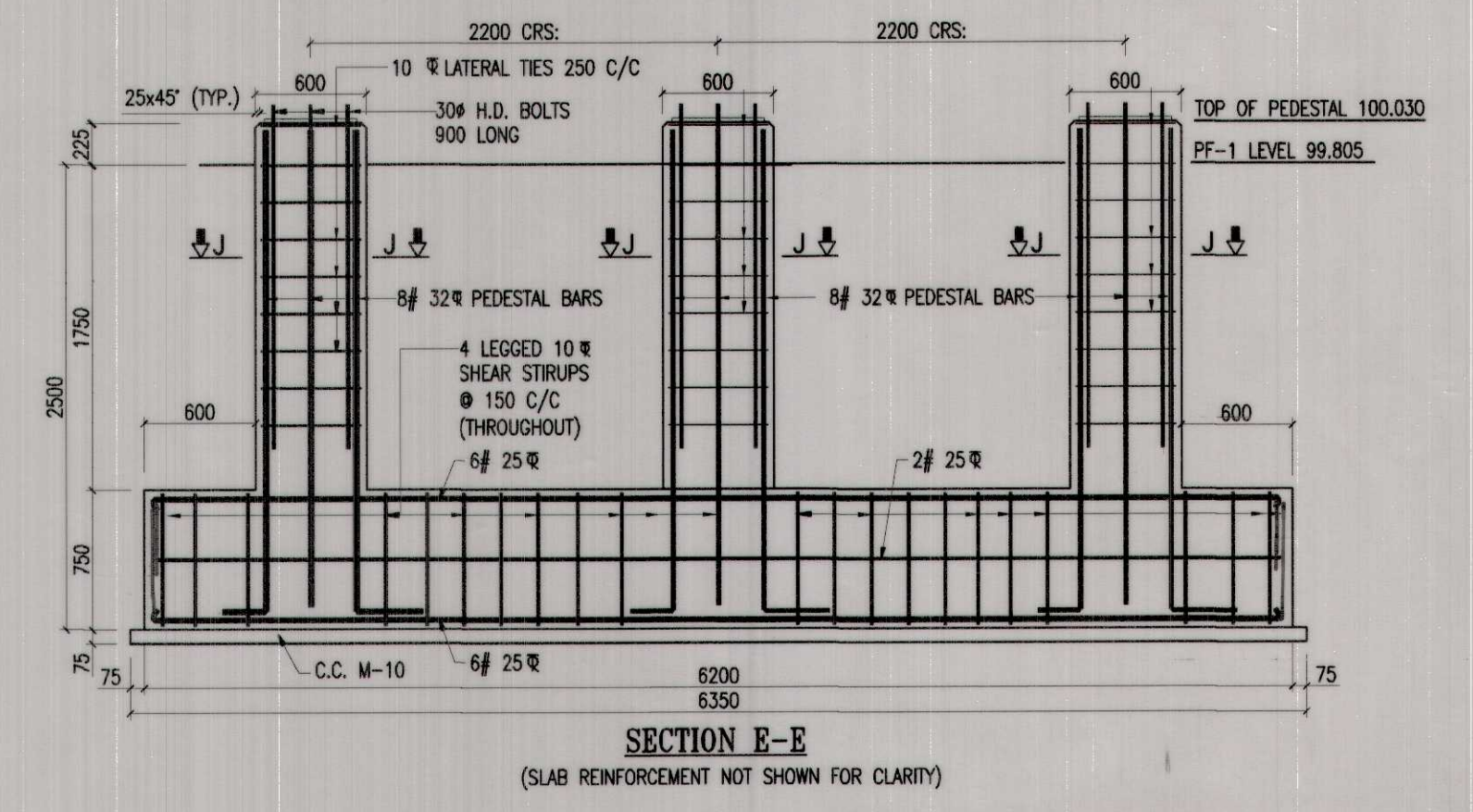
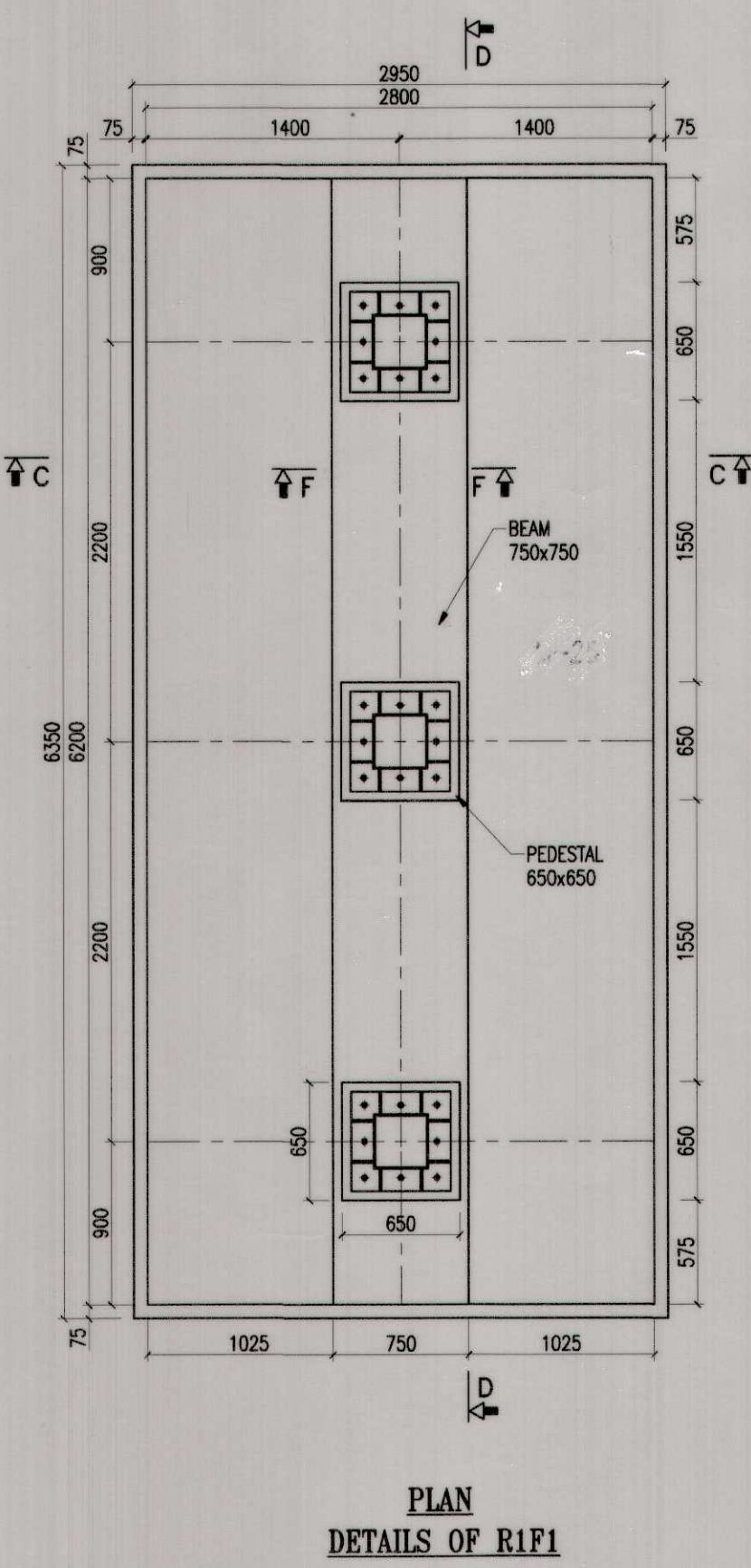
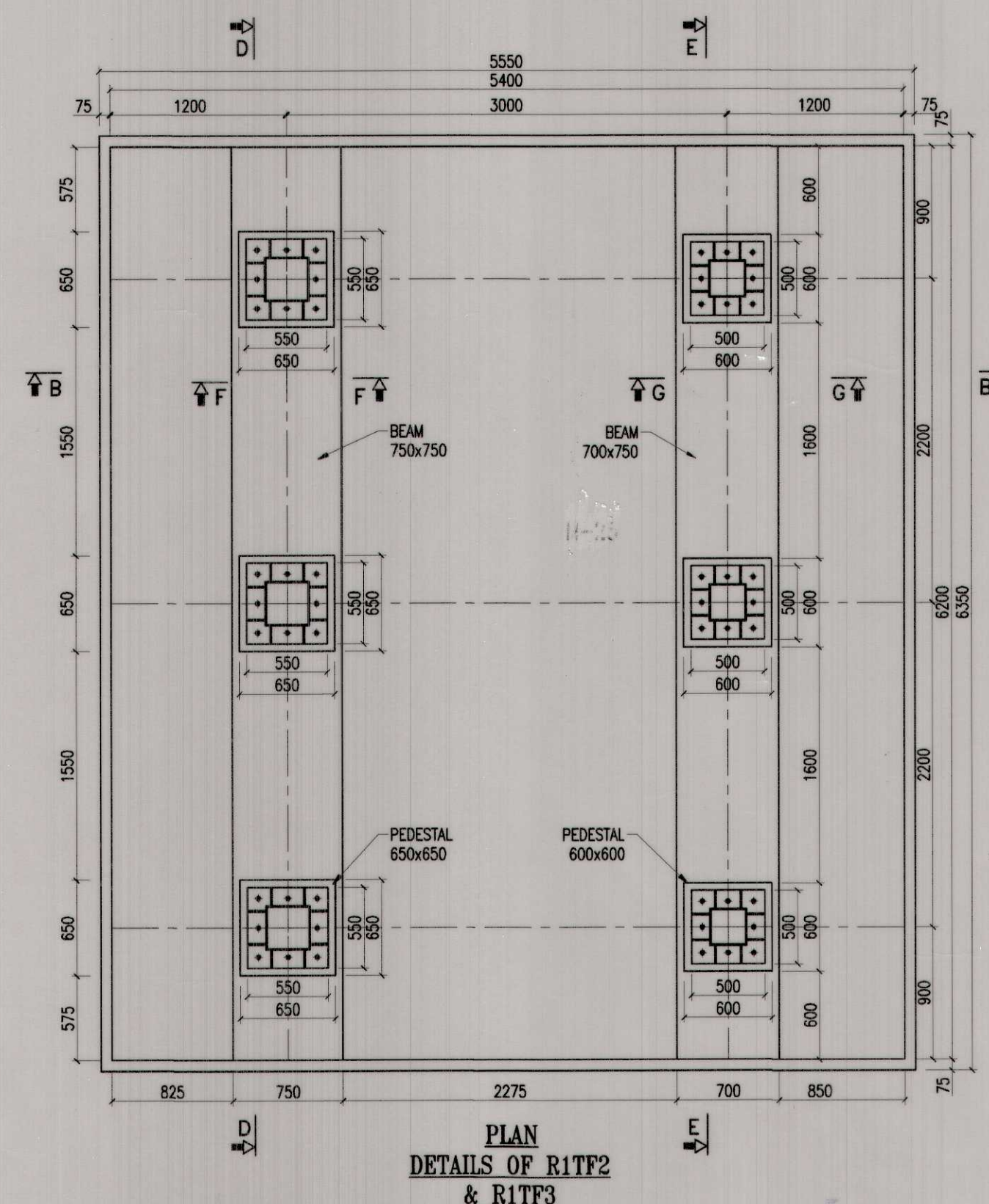
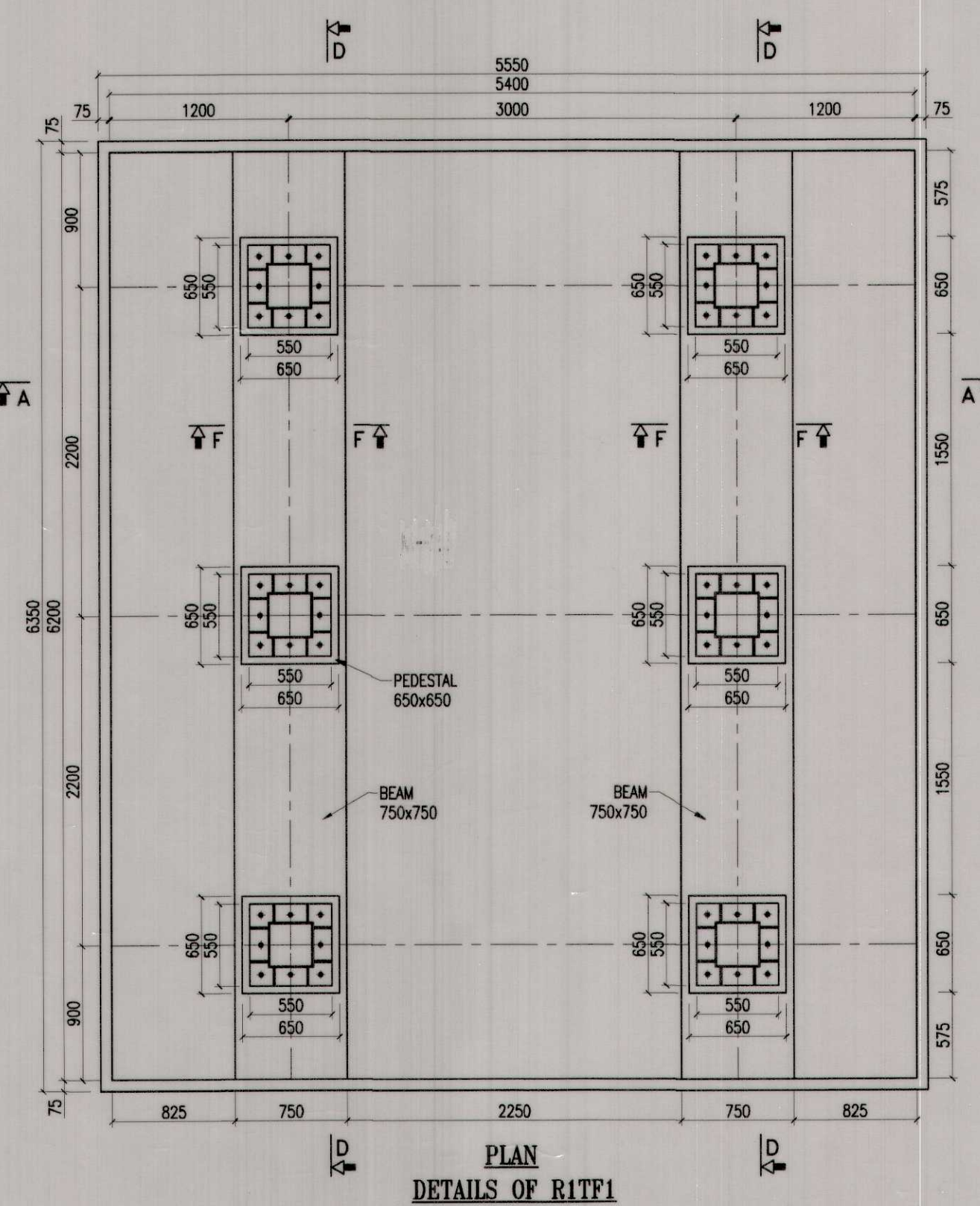
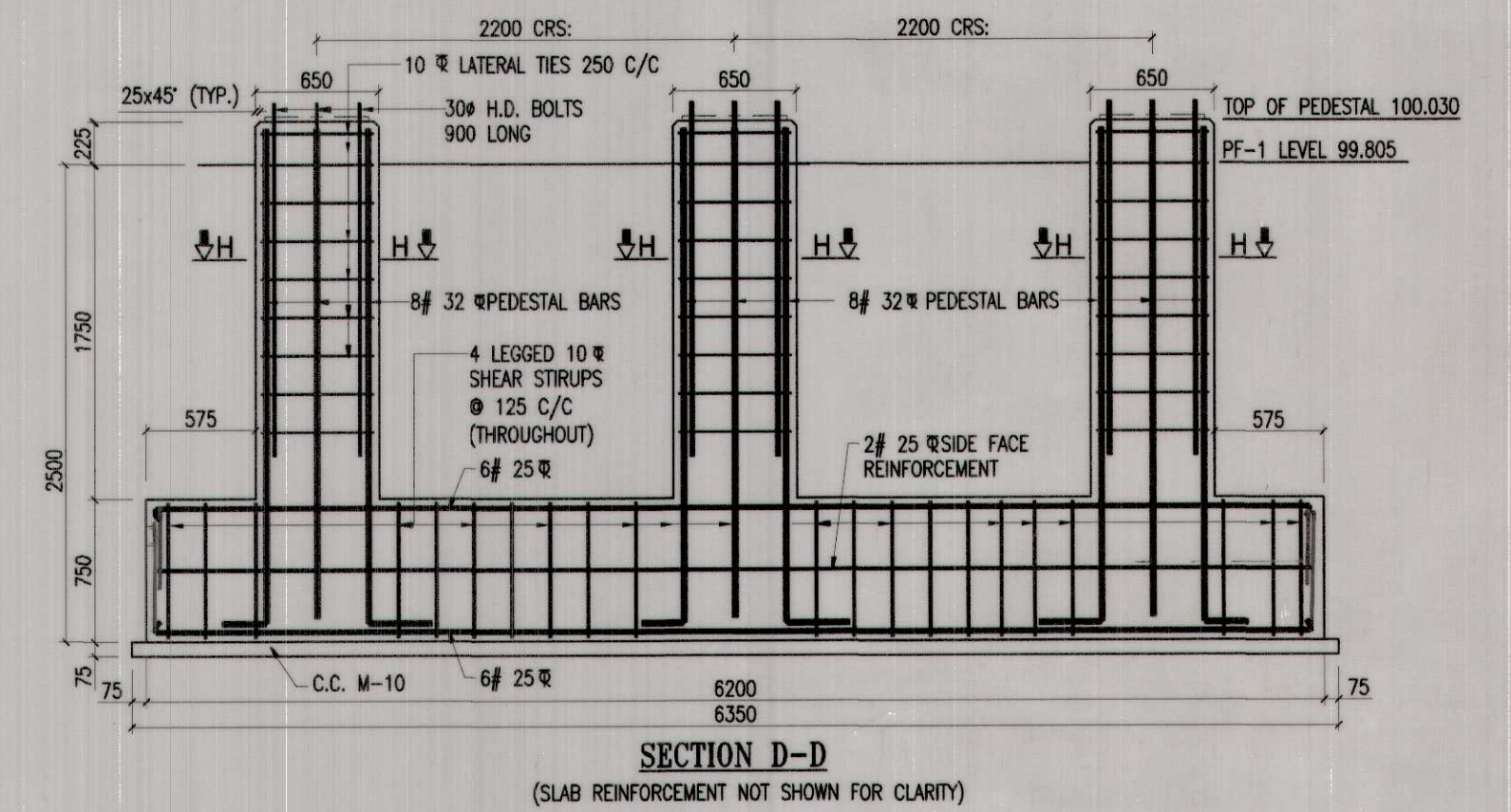
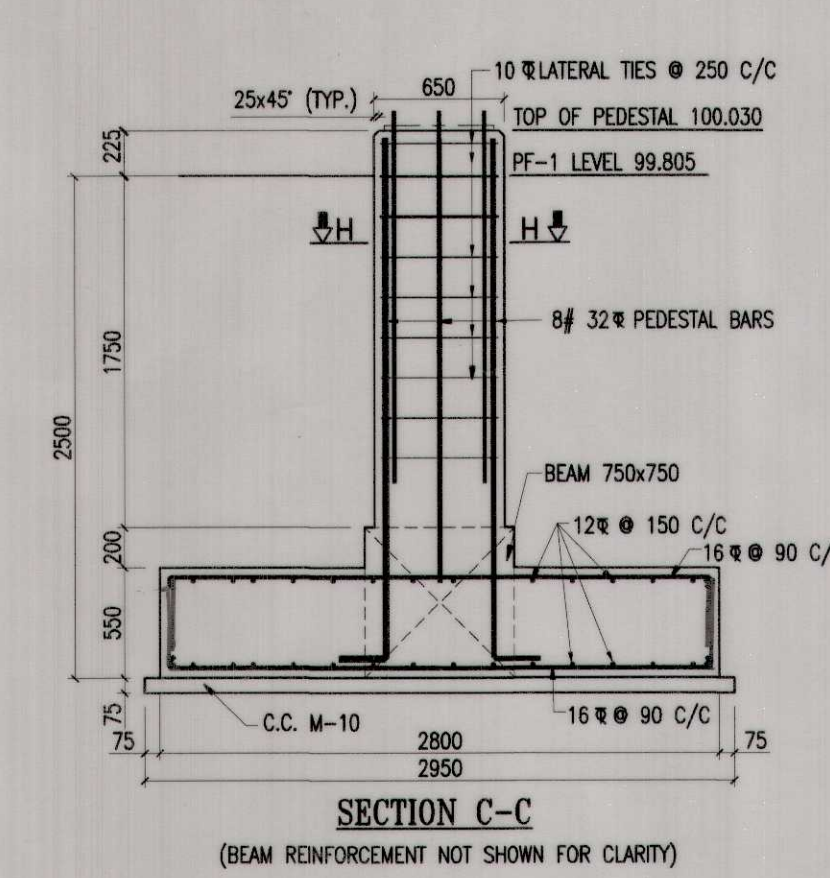
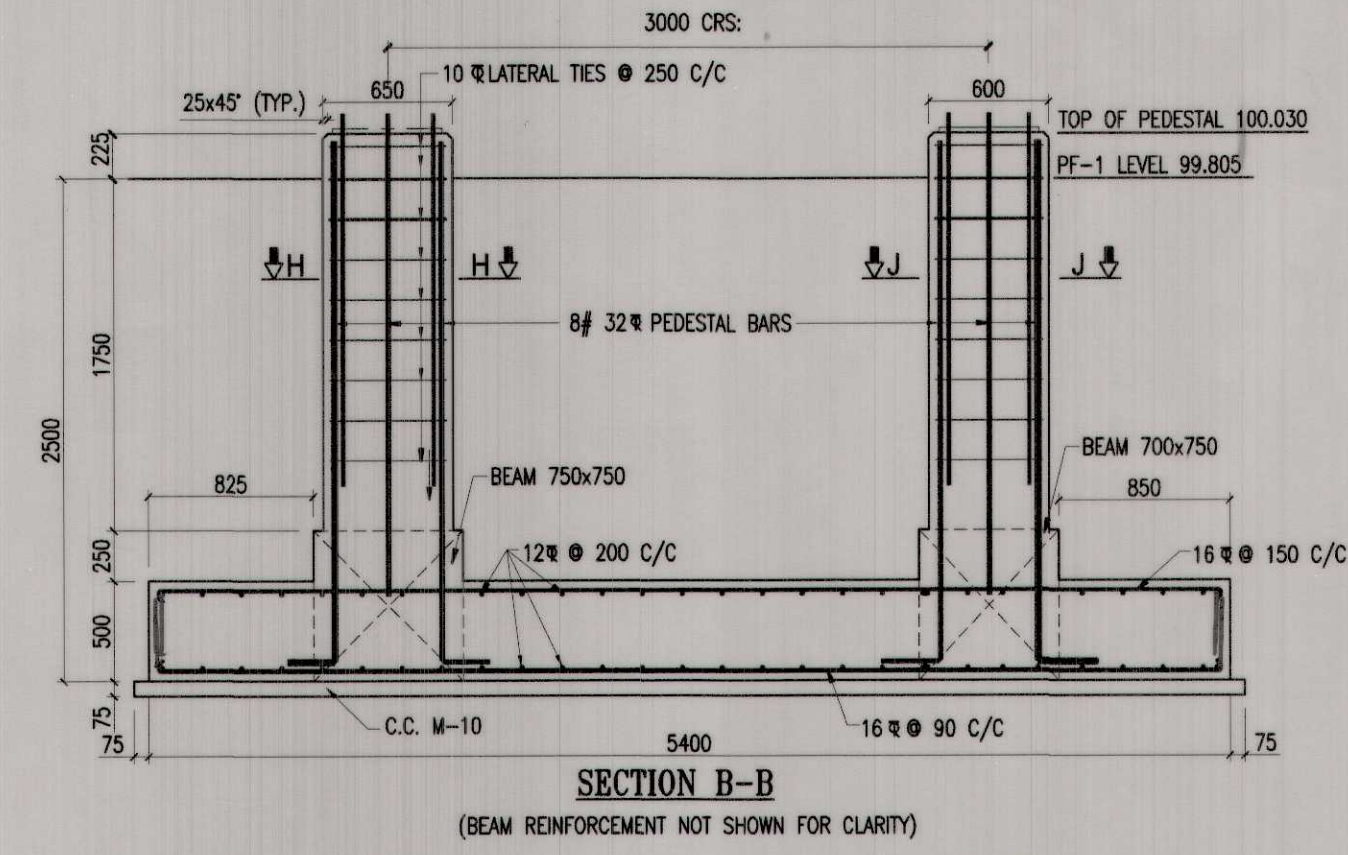
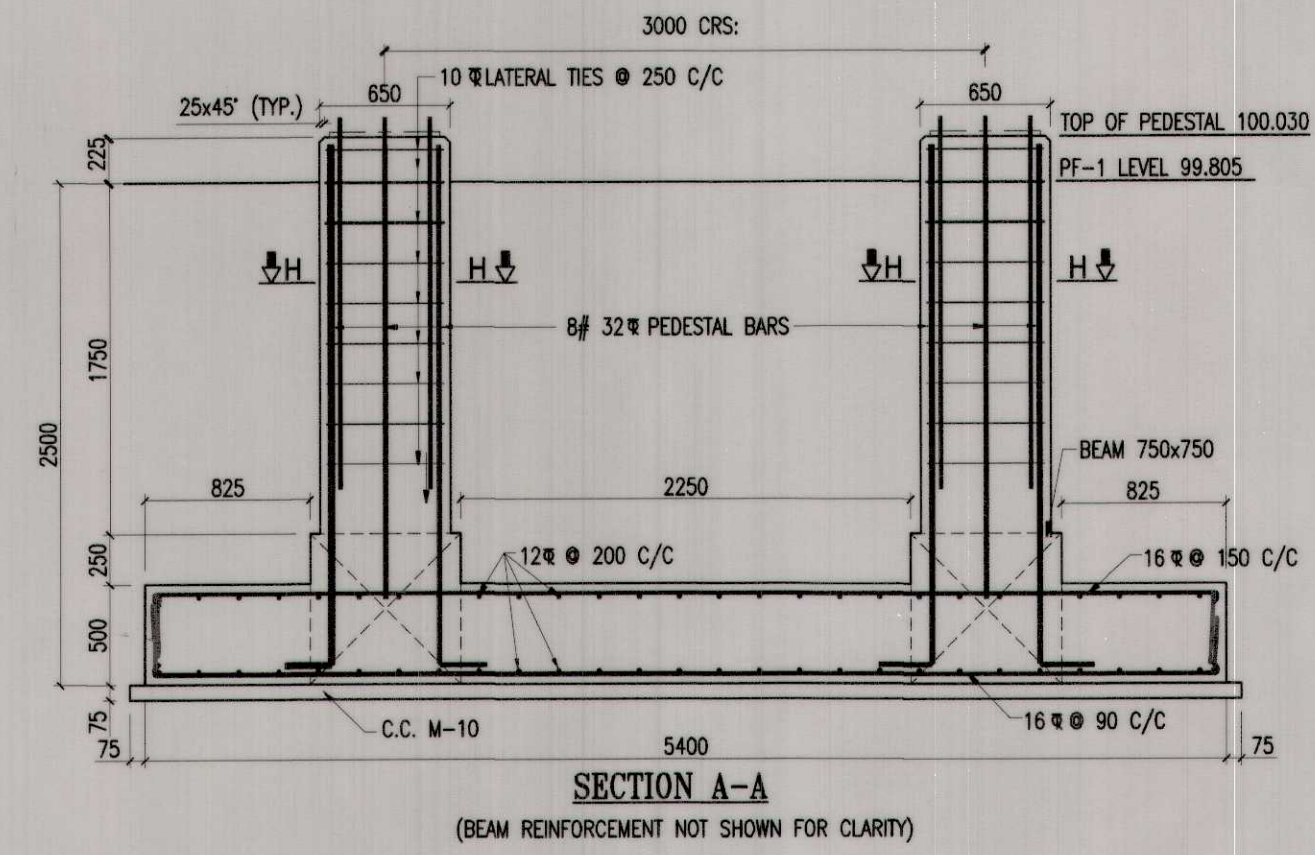


- NOTES:-**
1. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2. DO NOT SCALE. FOLLOW WRITTEN DIMENSION ONLY.
 3. TOP OF PEDESTAL OF STAIRCASE S1F2 & S2F2 IS INDICATIVE ONLY. IT SHOULD BE VERIFIED BEFORE CASTING OF FOUNDATIONS.
 4. FOR OTHER NOTES REFER SHEET NO. 1.
 5. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT SHEETS.

FOR	SEE
GENERAL ARRANGEMENT	NRHQ PLAN NO. FB-107/UMB
FOUNDATION LAYOUT PLAN	SHEET No-2
DETAIL OF TRESTLE FOUNDATION	SHEET No-3A, 3B
DETAIL OF STAIRCASE FOUNDATIONS	SHEET No-4A, 4B
DETAIL OF RAMP FOUNDATIONS	SHEET No-5A, 5B, 5C

AGENCY		AMBALA DIVISION	
105 Ram Singh Engineers & Contractors Ram Singh Partner		PROPOSED 12.0 M WIDE FOOT OVER BRIDGE AT KALKA RAILWAY STATION UNDER AMRIT BHARAT STATION SCHEME	
DESIGN & DRAWING		DETAIL OF STAIRCASE FOUNDATIONS S2F1, S2F2, S3F1 & S3F2	
S.R. DEN-3/UMB ADEN/SMI SSE/W/KLK		DIVL. PLAN NO. F08-173/KLK-2023/UMB NRHQ PLAN No. FB-107/UMB	
S.S.E./ORC DIVISIONAL OFFICERS		H.Q. OFFICERS SCALE-1:35 (SHEET No-4B)	

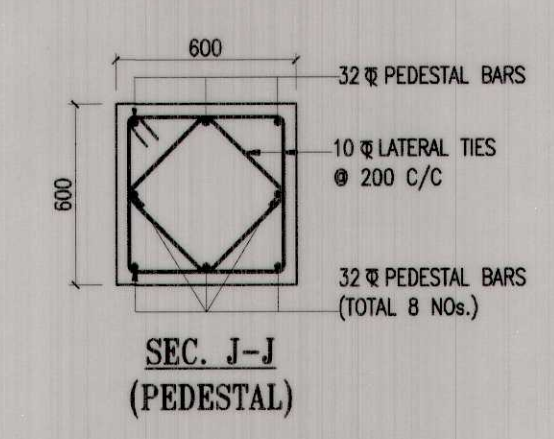
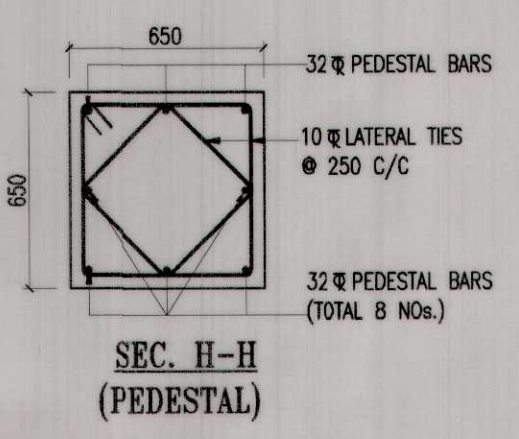
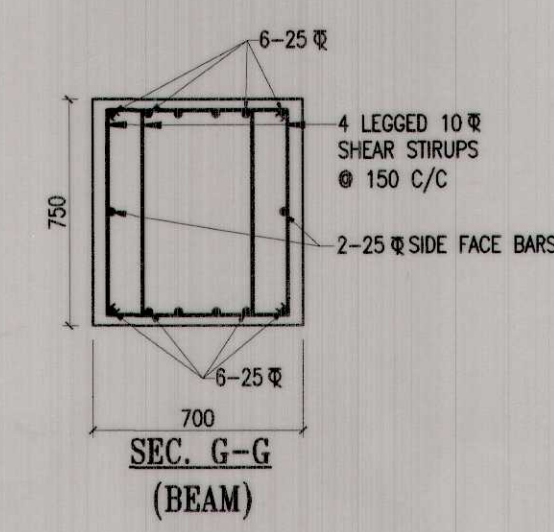
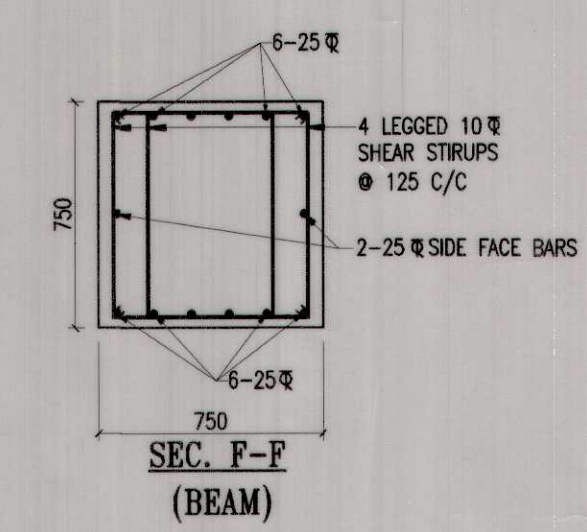
S.NO.	REVISION	DATE	APPROVED



NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
3. FOR OTHER NOTES REFER SHEET NO. 1.
4. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT SHEETS.
5. IN R1TF2, BEAM OF SIZE 750x750 SHALL BE ON RIGHT INNER SIDE & BEAM OF SIZE 700x750 SHALL BE ON LEFT OUTER SIDE, WHEREAS IN R1TF3, BEAM OF SIZE 750x750 SHALL BE ON LEFT INNER SIDE & BEAM OF SIZE 700x750 SHALL BE ON RIGHT OUTER SIDE.

FOR	SEE
GENERAL ARRANGEMENT	NRHQ PLAN NO. FB-107/UMB
FOUNDATION LAYOUT PLAN	SHEET No-2
DETAIL OF TRESTLE FOUNDATION	SHEET No-3A, 3B, 3C
DETAIL OF STAIRCASE FOUNDATIONS	SHEET No-4A, 4B
DETAIL OF RAMP FOUNDATIONS	SHEET No-5A, 5B, 5C



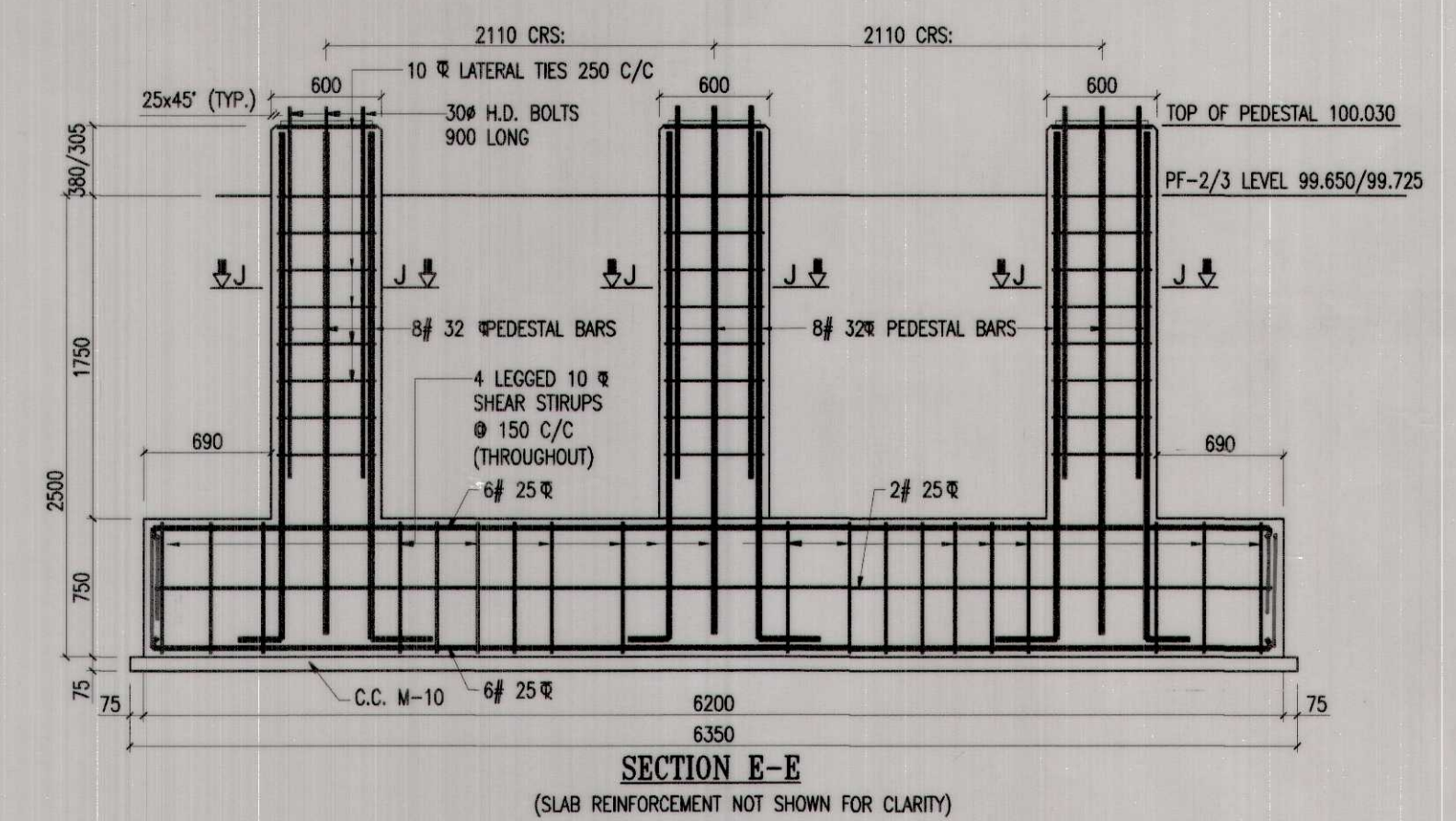
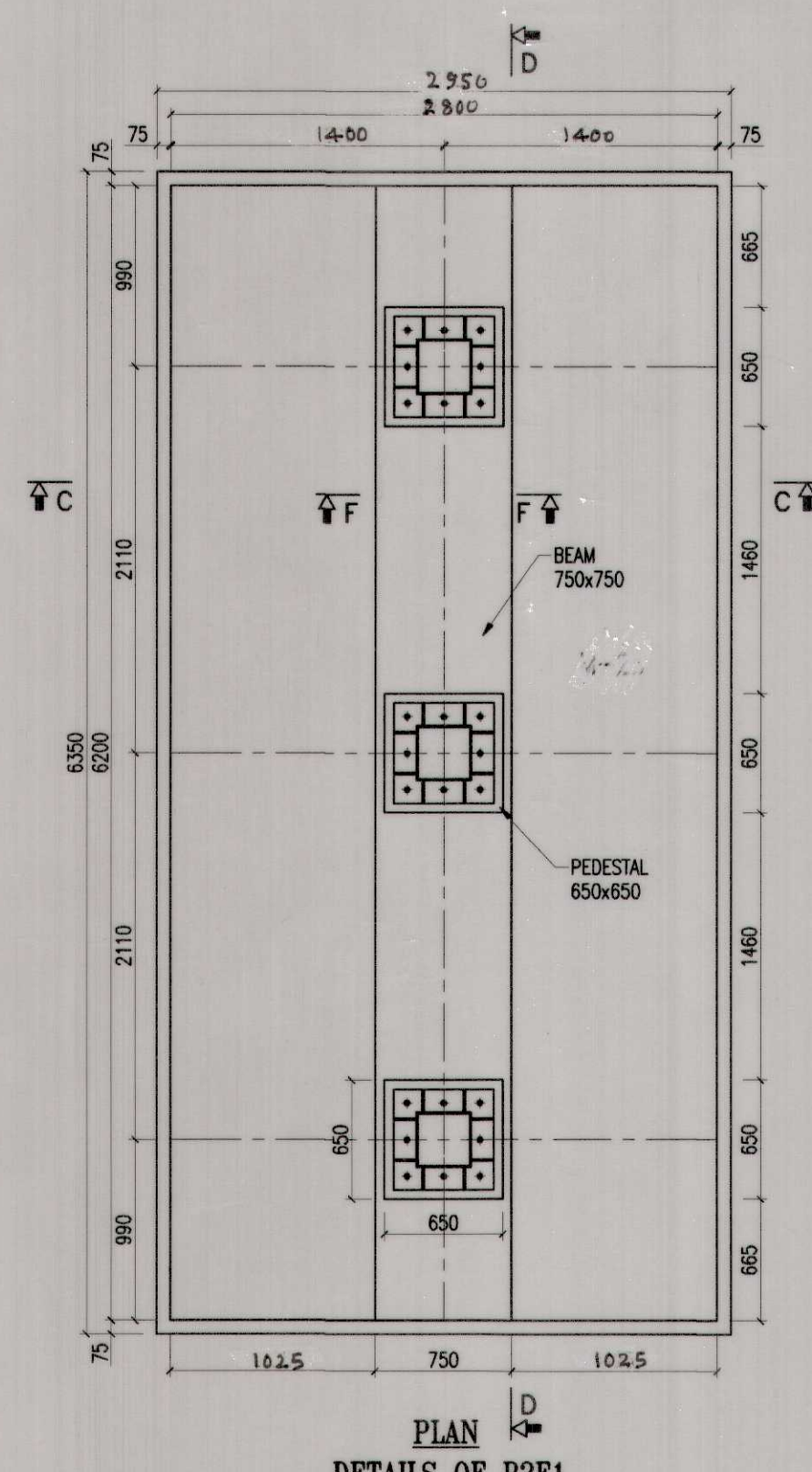
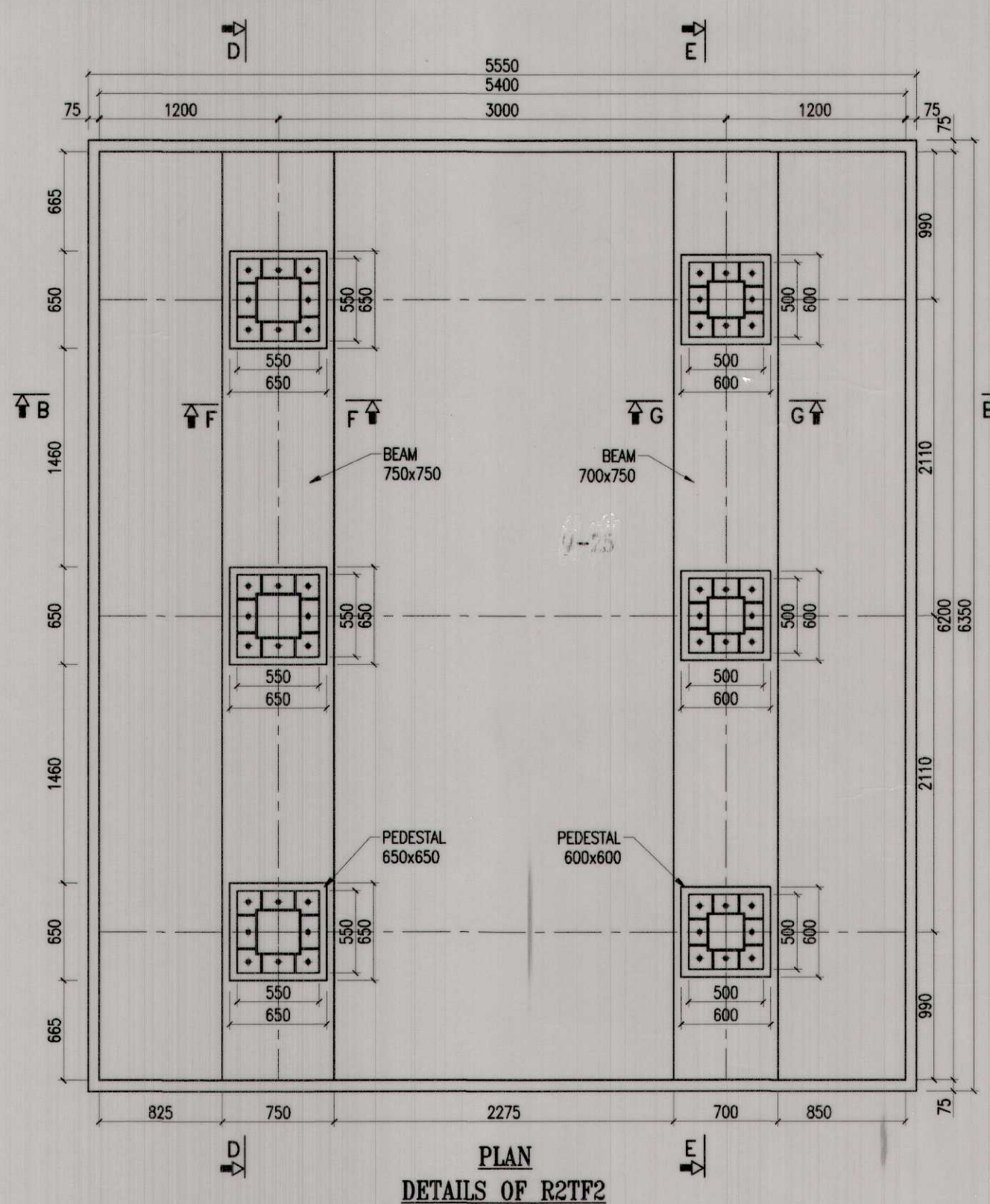
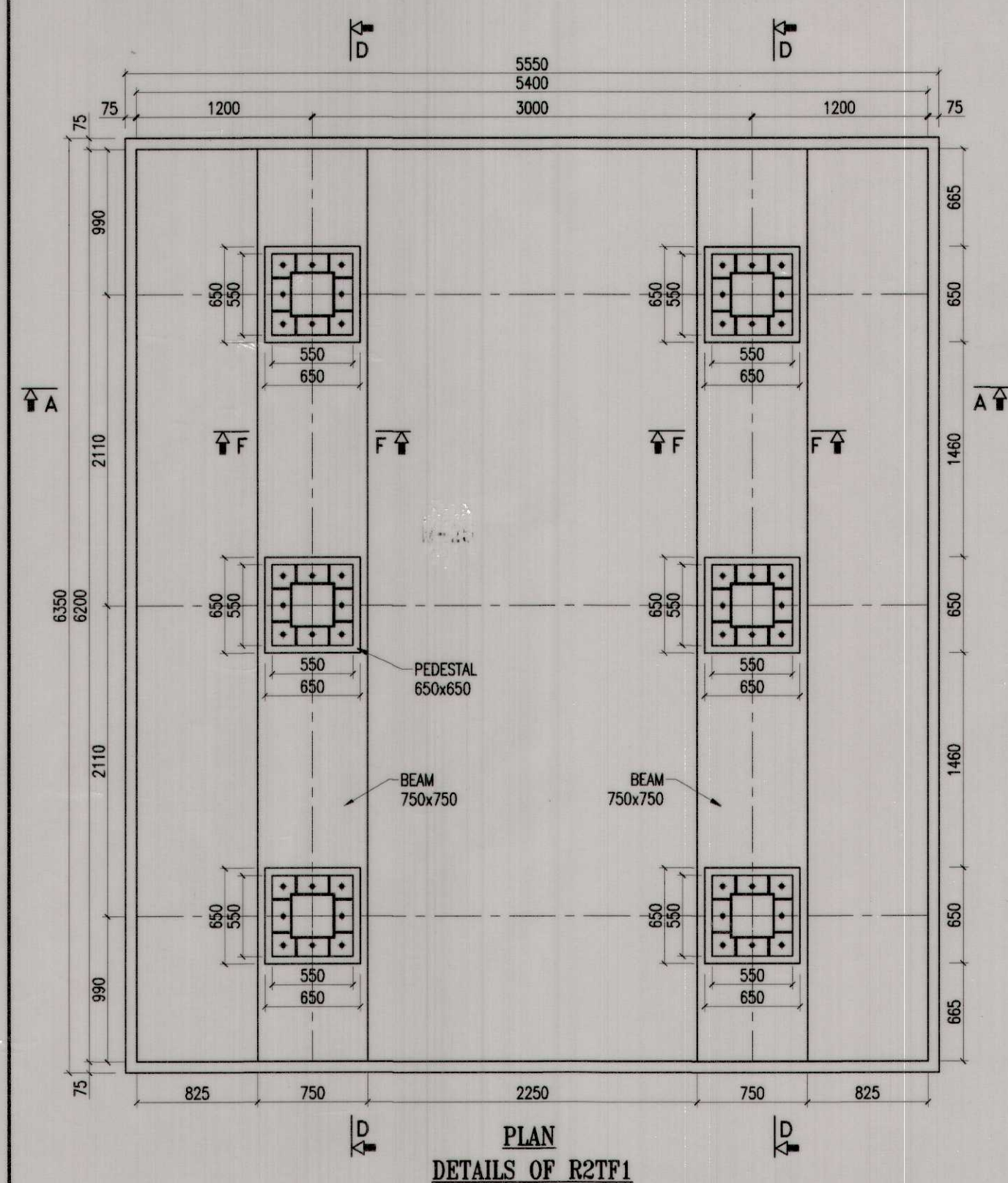
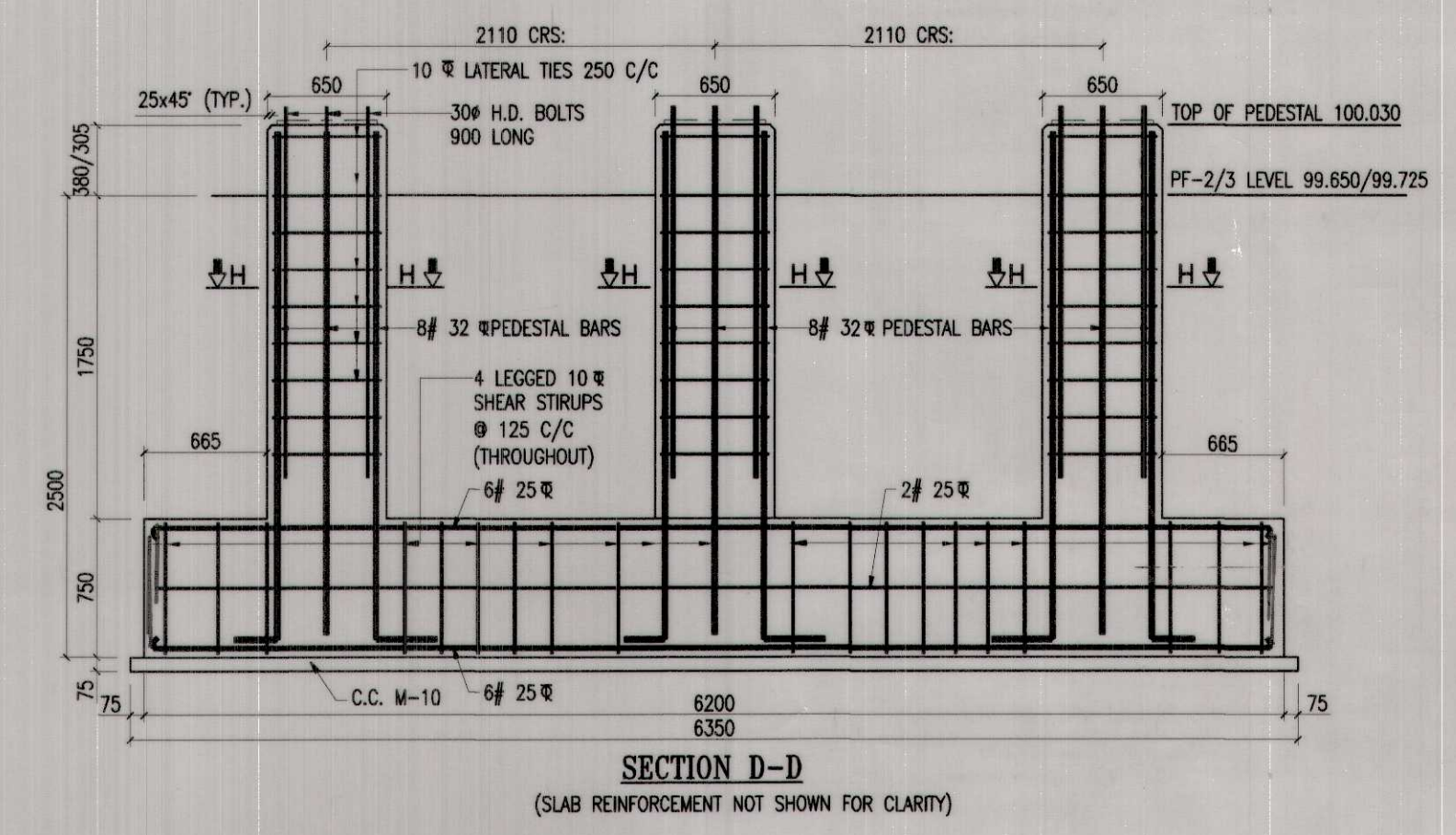
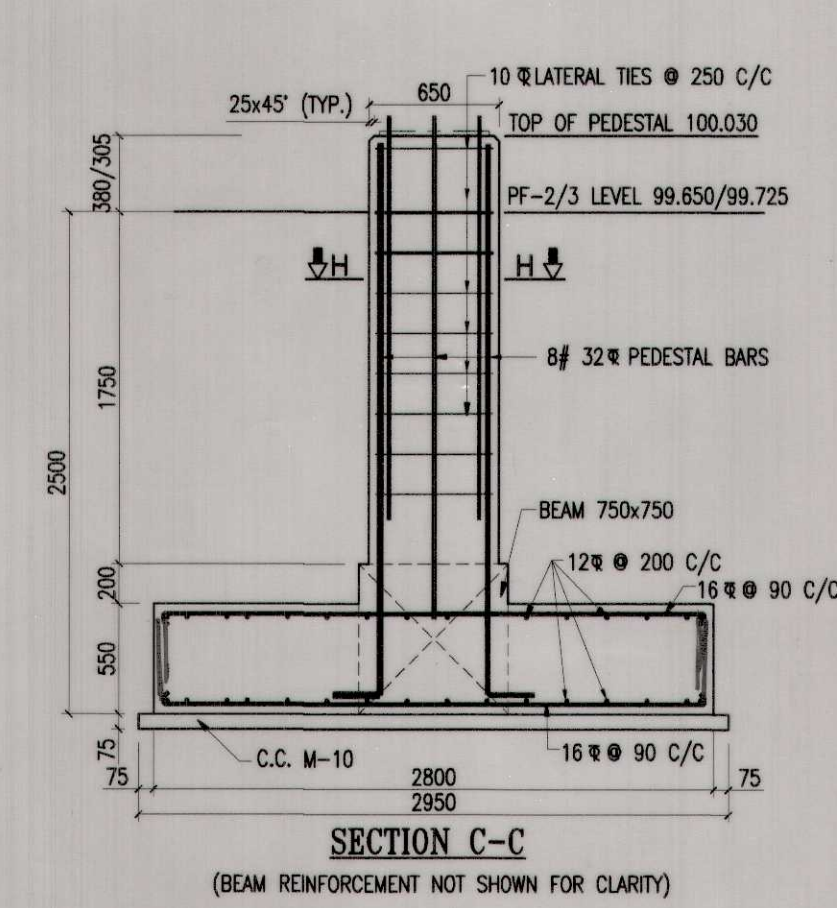
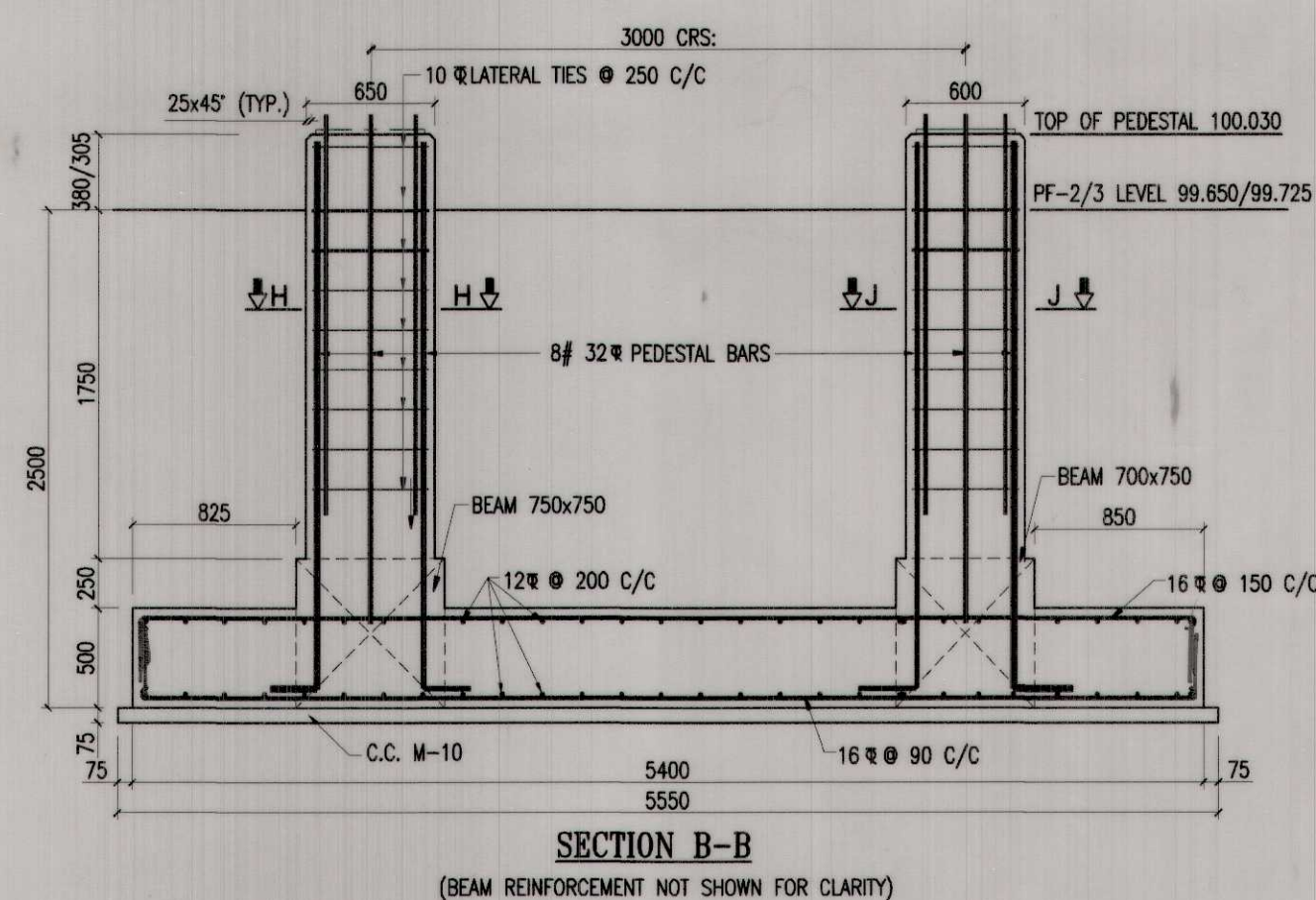
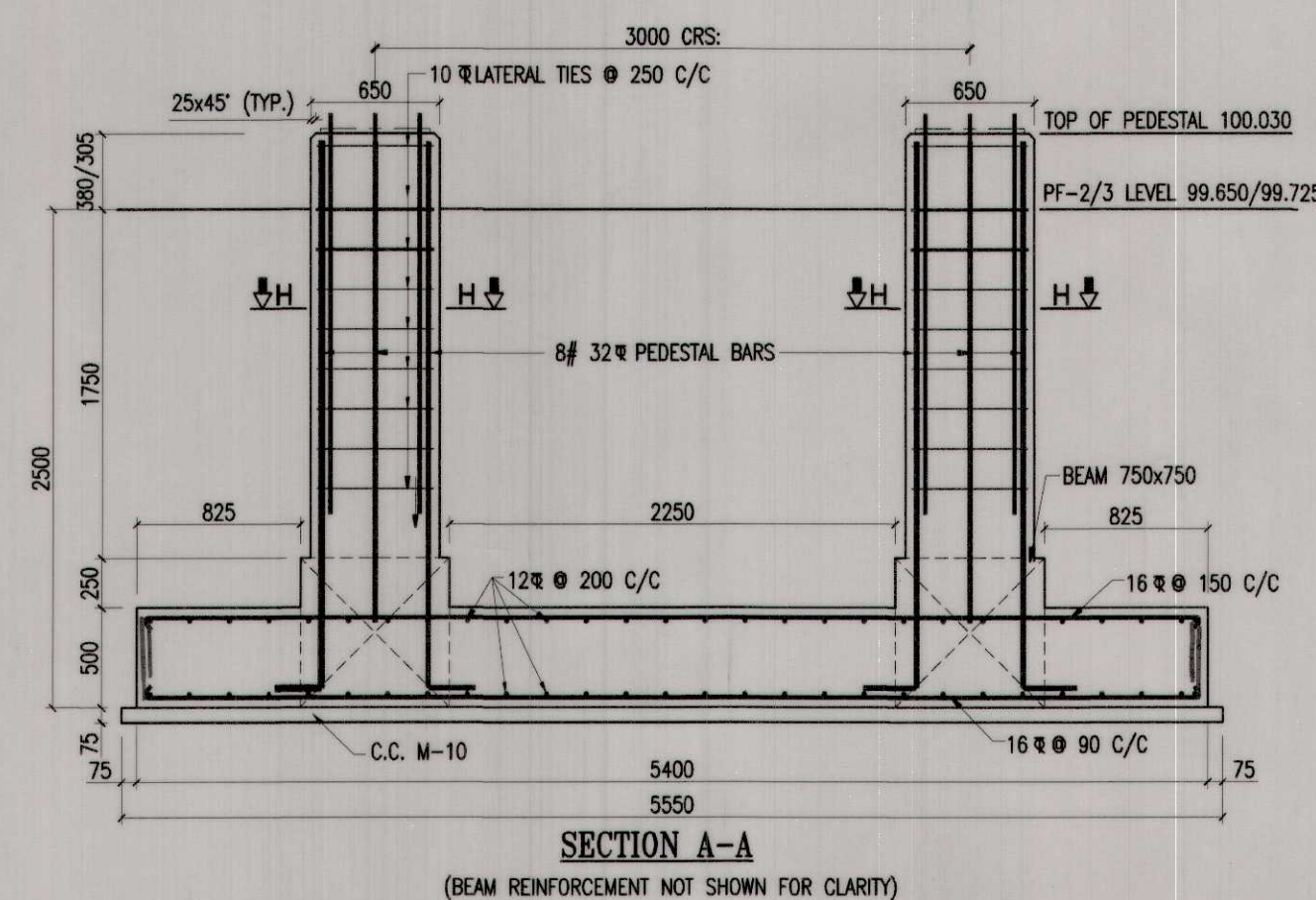
TYPICAL PEDESTAL SHOWING LOCATION OF H.D. BOLTS

TYPICAL PEDESTAL SHOWING LOCATION OF H.D. BOLTS

AGENCY	DESIGN & DRAWING
SR. DEN-3/UMB	AXEN/BD
ADEN/SHL	SSE/DESIGN
SSE/W/RELK	SSE/DRG.
DIVISIONAL OFFICERS	HQ. OFFICERS

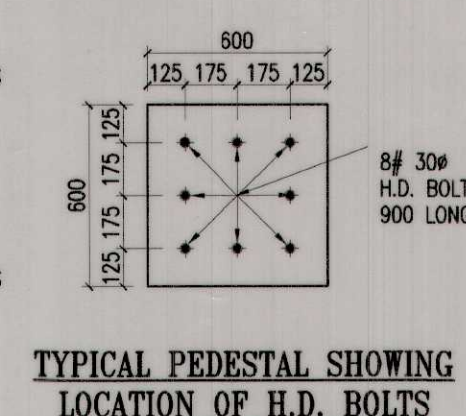
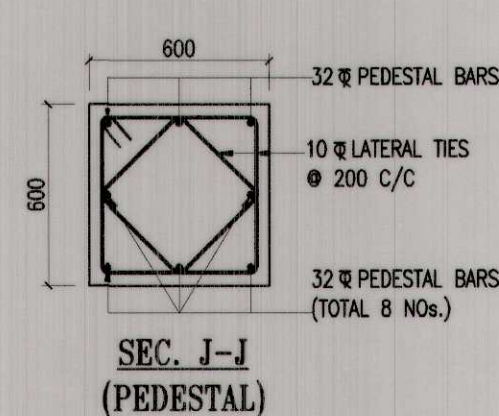
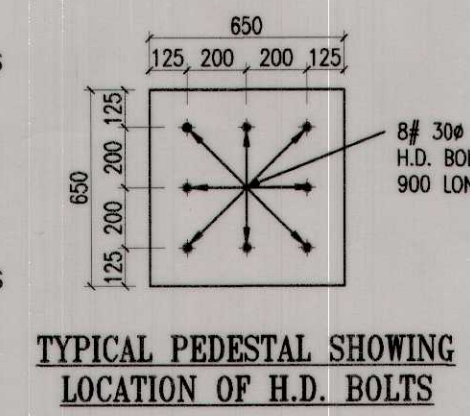
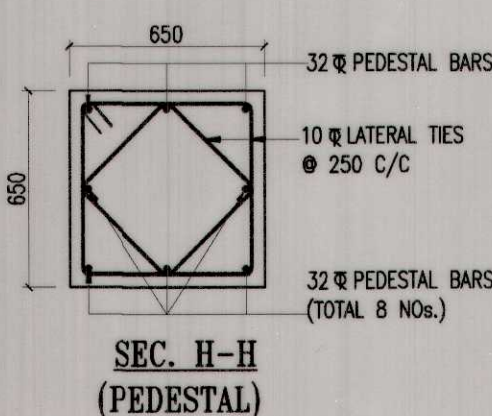
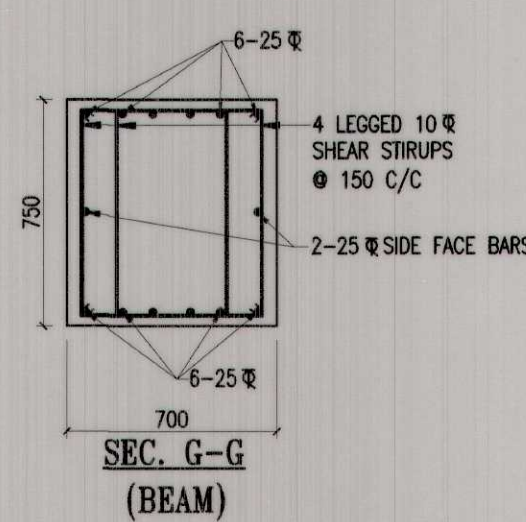
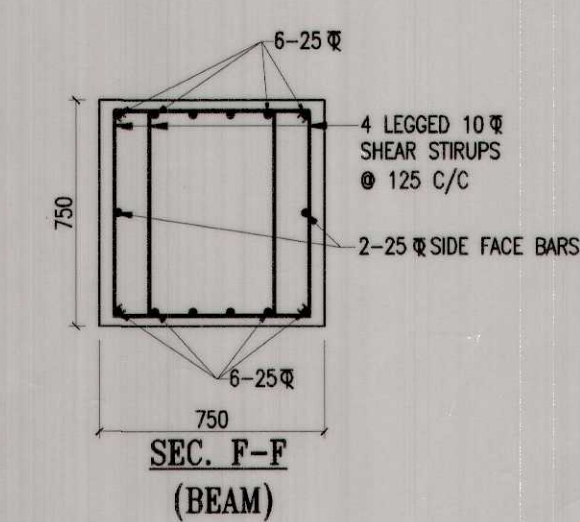
AMBALA DIVISION
PROPOSED 12.0 M WIDE FOOT OVER BRIDGE AT KALKA RAILWAY STATION UNDER AMRIT BHARAT STATION SCHEME
DETAIL OF RAMP FOUNDATIONS R1TF1, R1TF2, R1TF3 & R1F1
DIVL. PLAN NO. FOB-174/CLK-2023/UMB.
NRHQ PLAN No. FB-107/UMB
SCALE-1:35
(SHEET No-5A)

S.NO.	REVISION	DATE	APPROVED



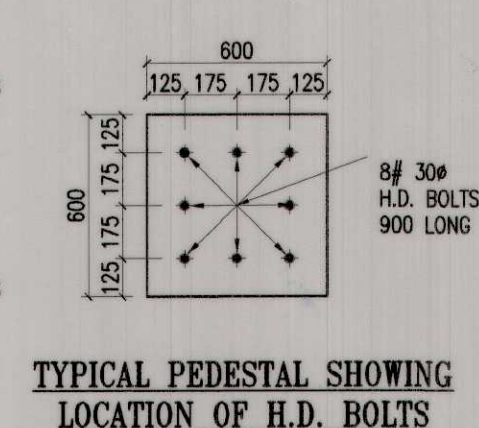
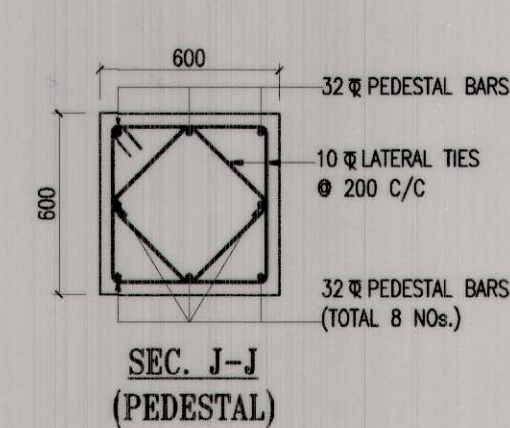
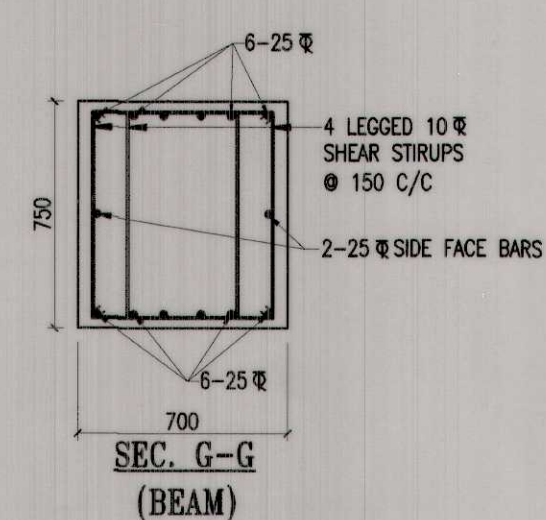
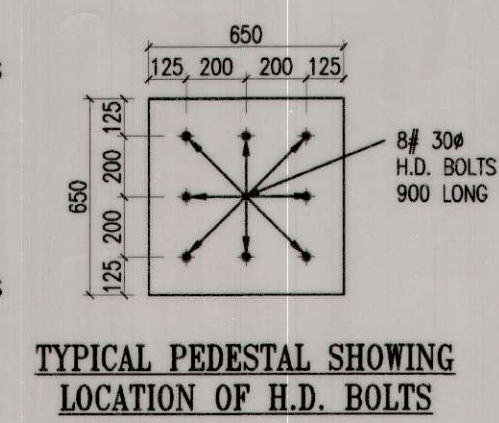
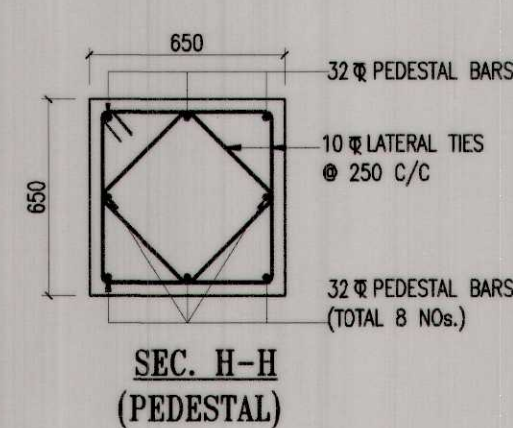
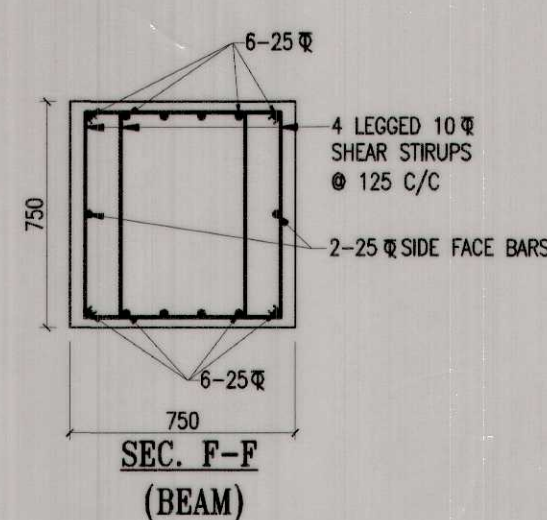
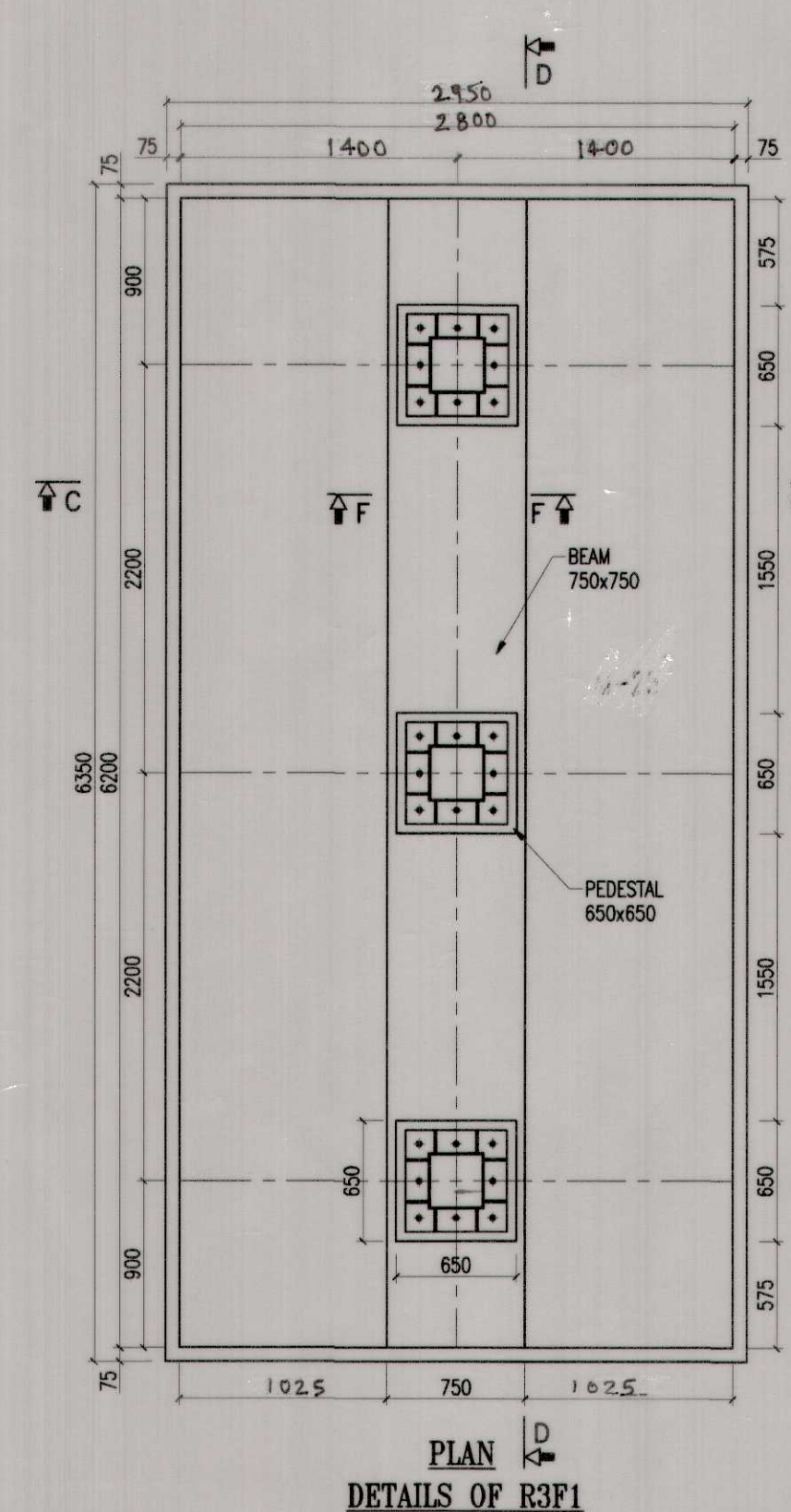
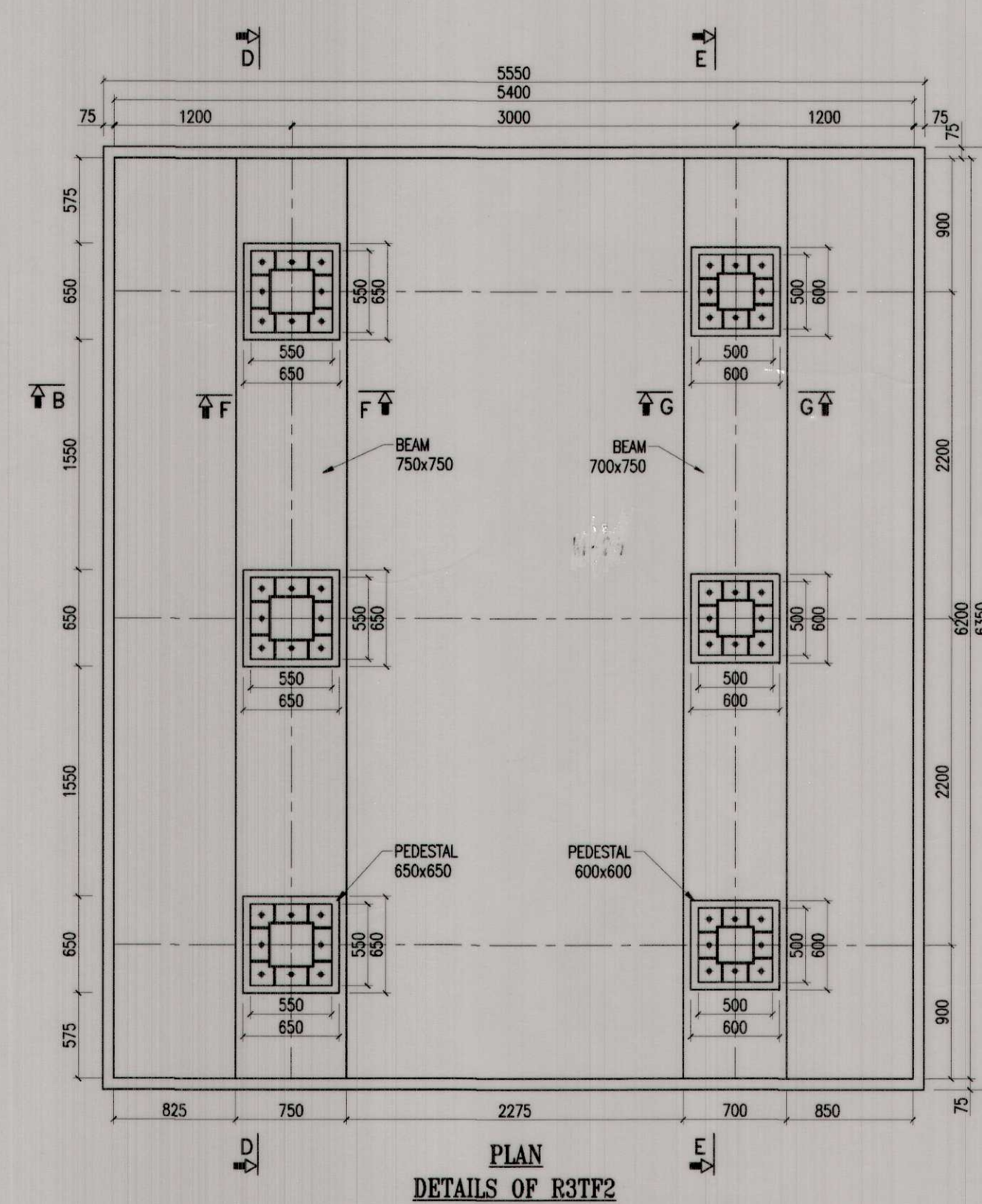
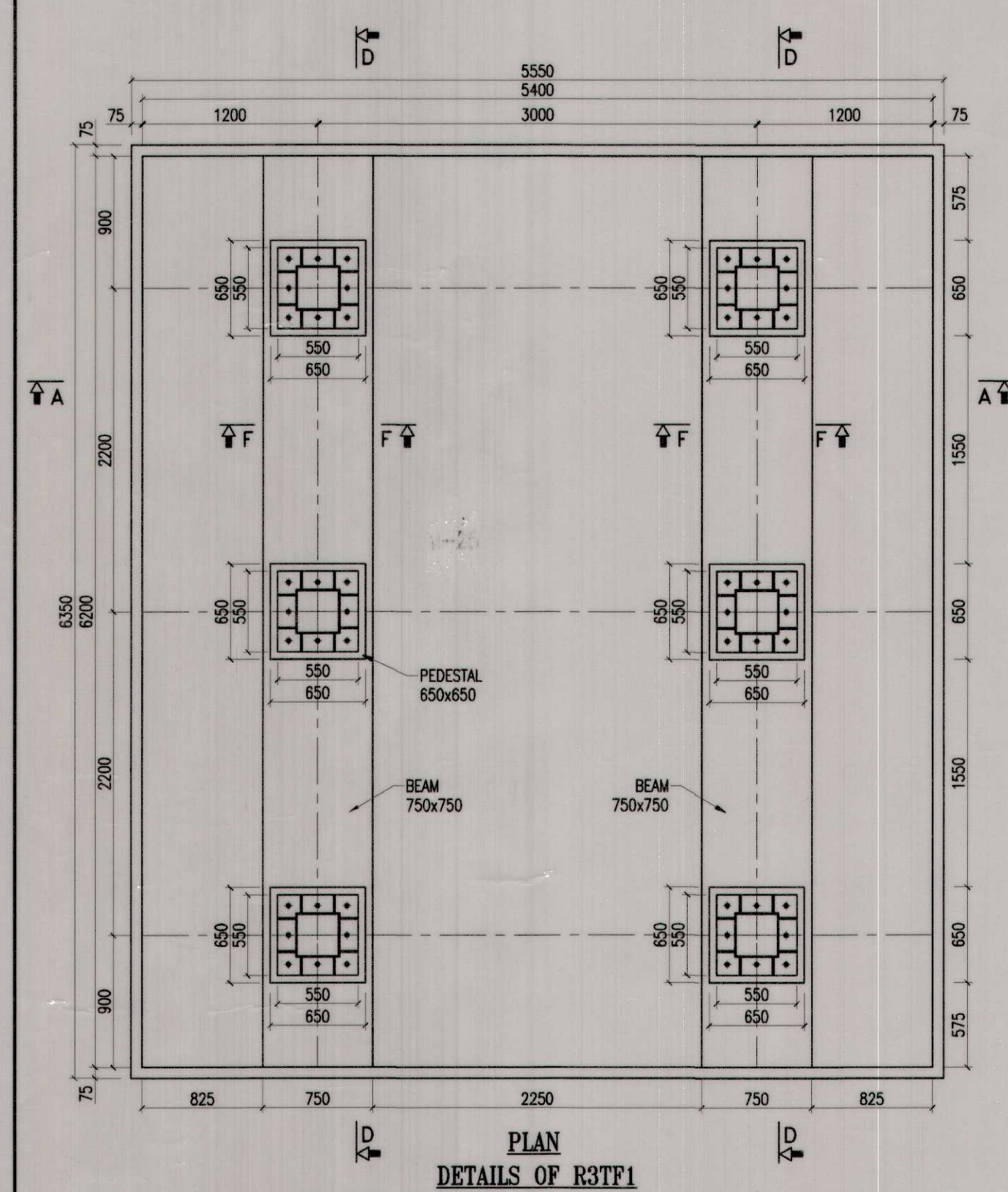
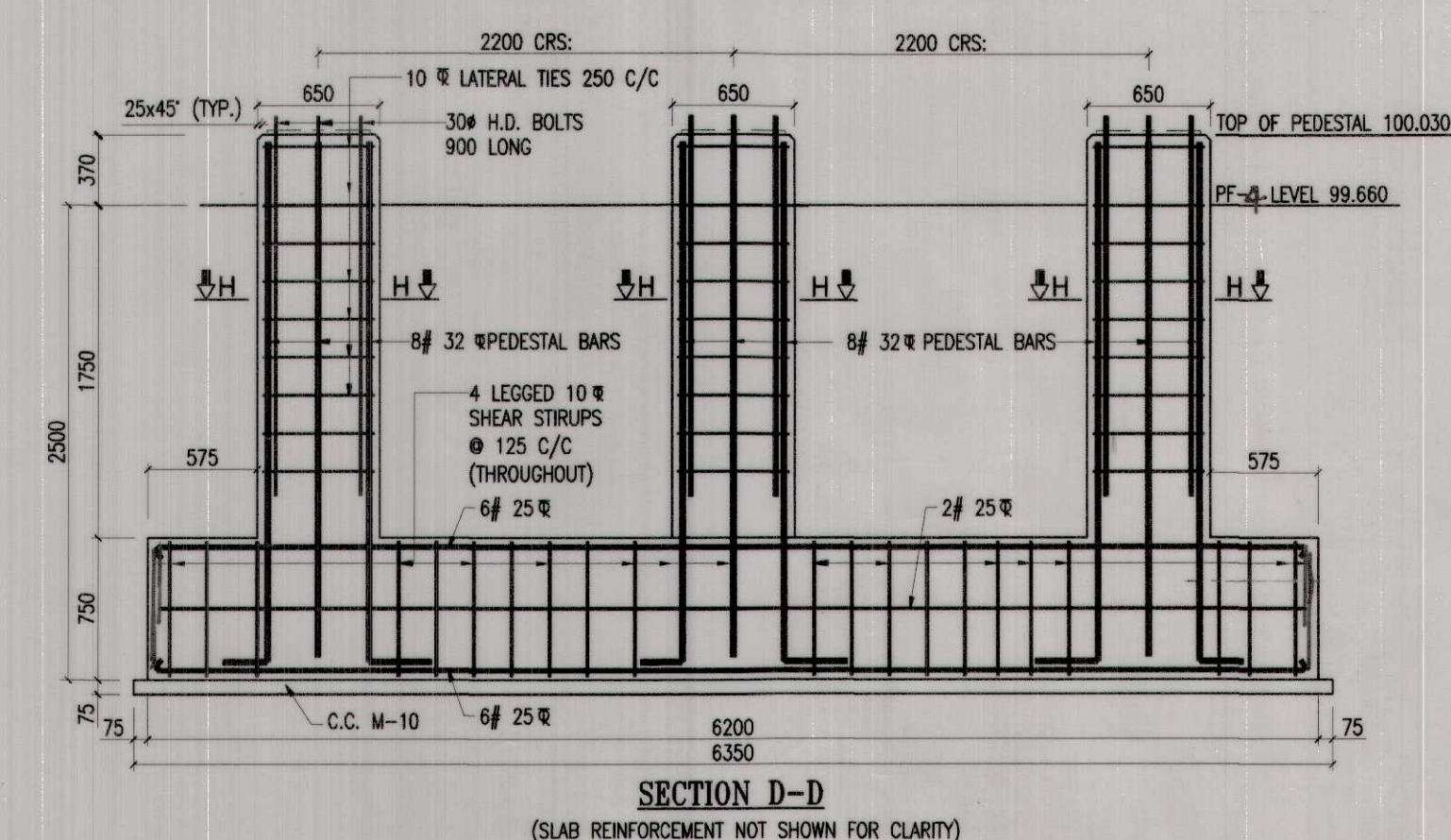
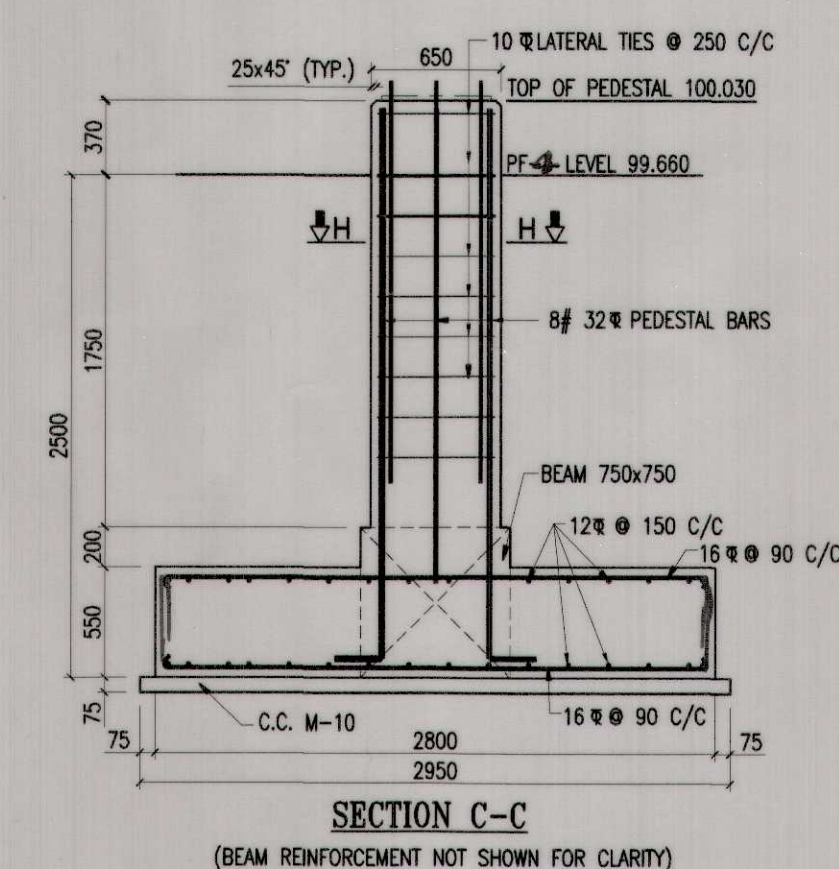
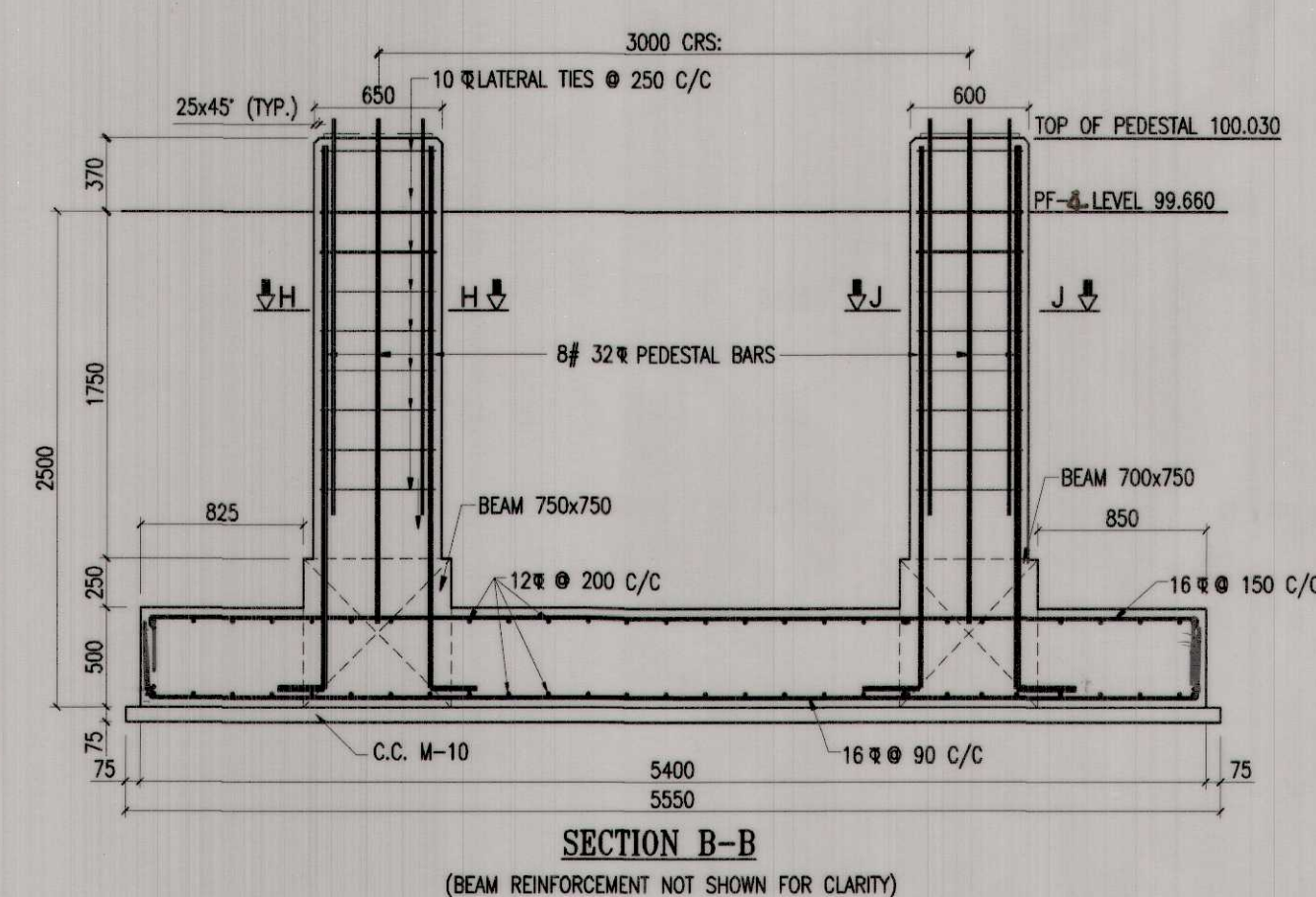
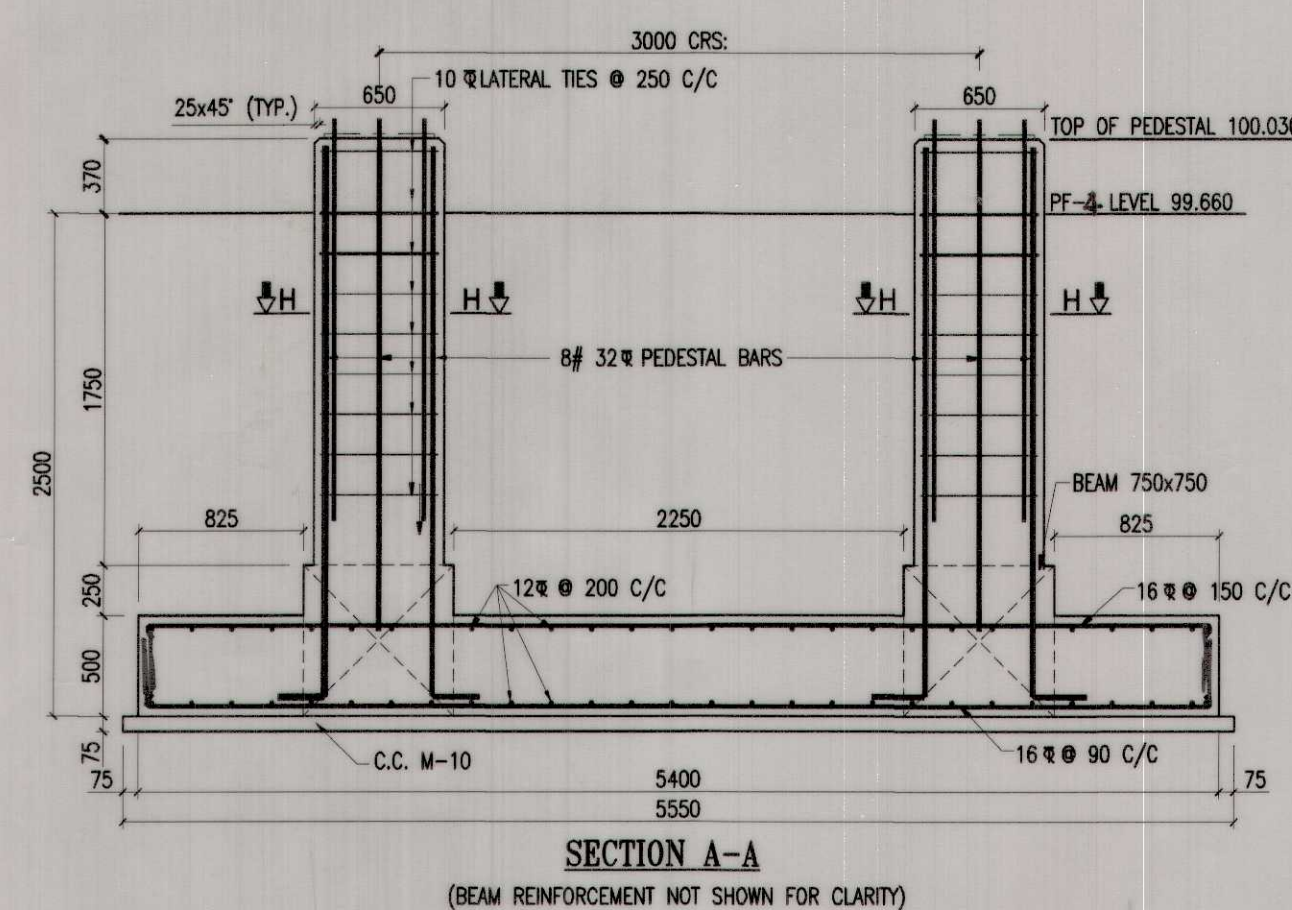
NOTES:-

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FOR	SEE
GENERAL ARRANGEMENT	NRHQ PLAN NO. FB-107/UMB
FOUNDATION LAYOUT PLAN	SHEET No-2
DETAIL OF TRESTLE FOUNDATION	SHEET No-3A, 3B, 3C
DETAIL OF STAIRCASE FOUNDATIONS	SHEET No-4A, 4B
DETAIL OF RAMP FOUNDATIONS	SHEET No-5A, 5B, 5C

AGENCY	W.S. Ravi Singh Engineers & Contractors Ravi Singh Partner	AMBALA DIVISION PROPOSED 12.0 M WIDE FOOT OVER BRIDGE AT KALKA RAILWAY STATION UNDER AMRTI BHARAT STATION SCHEME DETAIL OF RAMP FOUNDATIONS R2TF1, R2TF2 & R2F1
PROOF CHECKED BY	DESIGN & DRAWING	DIVL. PLAN NO. FOB-175/KLK-2023/UMB. NRHQ PLAN No. FB-107/UMB
S.NO.	REVISION	DATE
APPROVED	REVISION	DATE
DIVISIONAL OFFICERS	HQ. OFFICERS	SCALE:-1:35 (SHEET No-5B)



- NOTES:-

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FOR	SEE
GENERAL ARRANGEMENT	NRHOE PLAN NO. FB-107/UMB
FOUNDATION LAYOUT PLAN	SHEET No-2
DETAIL OF TRESTLE FOUNDATION	SHEET No-3A, 3B
DETAIL OF STAIRCASE FOUNDATIONS	SHEET No-4A, 4B
DETAIL OF RAMP FOUNDATIONS	SHEET No-5A, 5B, 5C

AGENCY		CBE (C.B.S. To MARK)	AMBA DIVISION
Proposed by Engineers & Contractors: Havi Singh Partner.	Sr. DEN-3/UMB <i>Ravi</i>	DY.CE/OB <i>[Signature]</i> S.K. BARUA	PROPOSED 12.0 M WIDE FOOT OVER BRIDGE AT KALKA RAILWAY STATION UNDER AMRIT BHARAT STATION SCHEME
DESIGN & DRAWING	ADEX/SML <i>[Signature]</i>	AXEN/OB	DETAIL OF RAMP FOUNDATIONS R3TF1, R3TF2 & R3F1
	SSE/M/KLR <i>[Signature]</i>	SSE/DESIGN	DIVL. PLAN No. FOB-176/CLKK-2023/UMB.
	DIVISIONAL OFFICERS	HQ. OFFICERS	NRHQ PLAN No. FB-107/UMB
		SSE/DWG. <i>[Signature]</i>	SCALE - 1:35
			(SHEET No-5C)