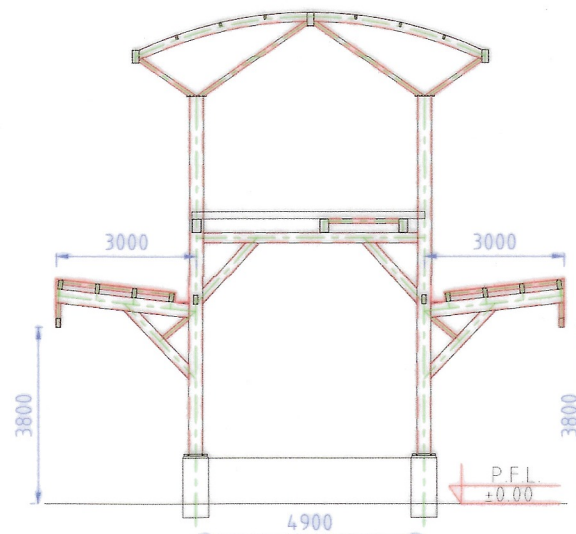


SCHEMATIC SIDE VIEW OF RAMP
(SCALE 1:175)

RELATED DRAWINGS

S.NO.	DESCRIPTION	REFERENCE
1.	SCHEMATIC VIEW & NOTES	RDSO/B-10439
2.	SIDE ELEVATION OF RAMP	RDSO/B-10439/1
3.	ELEVATION ALONG GRID A & B	RDSO/B-10439/2
4.	ELEVATION ALONG GRID C & D	RDSO/B-10439/3
5.	RAMP ELEVATION	RDSO/B-10439/4
6.	RAMP VIEWS A & B	RDSO/B-10439/5
7.	PURLIN PLAN OF CANOPY	RDSO/B-10439/6
8.	PURLIN PLAN OF ROOF	RDSO/B-10439/7
9.	CONNECTION DETAIL 1	RDSO/B-10439/8
10.	CONNECTION DETAIL 2	RDSO/B-10439/9
11.	WELDED COMPONENTS	RDSO/B-10439/10
12.	FOUNDATION LAYOUT (SBC 16T/MSQ.)	RDSO/B-10439/11
13.	FOUNDATION DETAIL PART 1	RDSO/B-10439/12
14.	FOUNDATION DETAIL PART 2	RDSO/B-10439/13



SCHEMATIC SECTION OF RAMP
(SCALE 1:175)

THE DESIGN HAS BEEN STRUCTURALLY CHECKED BY RDSO AND FOUND OK

NOTES:
GENERAL:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED, AND NO DIMENSIONS SHOULD BE SCALED FROM THIS DRAWING.
- HAND RAILING SHOWN IN THESE DRAWINGS IS INDICATIVE ONLY. IMPROVED TYPE OF SIDE RAILING WITH STAINLESS STEEL MATERIAL OR TOUGHENED GLASS MAY BE ADOPTED. SIDE RAILING SHOULD BE AESTHETICALLY GOOD AND ERGONOMIC. ENGINEER-IN-CHARGE MAY DECIDE ABOUT THE DIFFERENT TYPE OF SIDE RAILINGS, CONSIDERING WITH LOAD CONSIDERATION.
- COMPLETE STRUCTURE SHOULD BE METALLIZED AS PER IRS SPECIFICATION.
- TO PROMOTE SAFETY, HAND RAIL SHALL BE PAINTED DURABLE BRIGHT YELLOW SO THAT IT IS EASILY VISIBLE.
- 1 IN 8 RAMP IS FOR THE CONVENIENCE OF PASSENGERS TO FACILITATE MOVEMENT WITH LUGGAGE ESPECIALLY WHEELED LUGGAGE. SUITABLE MEASURES AS PER PAID DOWN POLICY SHALL BE PROVIDED FOR THE DIVYANG USERS. IF LIFT IS TO BE PROVIDED, ITS GENERAL ARRANGEMENT SHALL BE AS PER NOTE NO. 20 OF DRAWING NO. RDSO/B-10433.

MATERIALS:

- ALL STEELS ARE RECTANGULAR OR SQUARE HOLLOW STRUCTURAL PIPES OF GRADE YST 310 OR HIGHER TO BE USED AS PER IS:4923-1997.
- HYSD/TMT BARS CONFIRMING TO IS 1786-2008 SHALL BE USED. (GRADE OF TMT BAR Fe 500/Fe 500D).
- CONCRETE FOR PRECAST PANELS TO BE USED ON RAMP SHOULD BE M 40. ALL OTHER CONCRETE FOR RCC WORK SHOULD BE MINIMUM M25.
- ROOFING SHEET OVER RAMP SHOULD BE PROVIDED AS PER THE SPECIFICATION ISSUED BY COMPETENT AUTHORITY. ROOFING SHEET SHOULD BE SO CHOSEN THAT IT IMPROVES THE AESTHETIC VIEW OF STRUCTURE.

LOADING:

- LIVE LOAD ON RAMP HAS BEEN TAKEN IN ACCORDANCE WITH CLAUSE 2.3.2.1 OF IRS BRIDGE RULE.
- WIND LOAD ON RAMP HAS BEEN TAKEN IN ACCORDANCE WITH CLAUSE 2.11 OF IRS BRIDGE RULE. MAXIMUM WIND PRESSURE IS TAKEN AS 75 Kg/m².
- NO IMPACT FACTOR IS TAKEN FOR DESIGN RAMP AS PER CLAUSE 2.4.3 OF IRS BRIDGE RULE.
- SNOW LOADING HAS NOT BEEN TAKEN IN THIS DESIGN.
- LOAD OF SOLAR PANEL 0.5KN/MSQ. IS TAKEN ON ROOF SHEETING.
- THIS DRAWING IS SUITABLE FOR USE UPTO SEISMIC ZONE-IV. THE SEISMIC FORCE HAS BEEN CALCULATED IN ACCORDANCE WITH IRS SEISMIC CODE-2017 (REVISED 2020).

FABRICATION:

- FABRICATION OF COMPONENTS OF RAMP TO BE DONE IN WORKSHOP AS FAR AS POSSIBLE.
- BEFORE FABRICATION WORK IS TAKEN UP, ALL PIECES TO BE FABRICATED (ALONG WITH ITS EXACT DIMENSIONS) AND THEIR NUMBERS SHALL BE WORKED OUT. MOREOVER EXACT DIMENSIONS AND THEIR NUMBERS OF OTHER COMPONENTS SUCH AS BRACINGS, CROSS GIRDERS, MAIN COLUMN ETC. ALSO TO BE WORK OUT IN ORDER TO AVOID ANY PROBLEM AT LATER STAGE.
- FABRICATION OF STEEL WORKS SHALL BE DONE AS ACCORDANCE WITH IRS B1-2000 SPECIFICATION.
- ALL WELDS TO BE MADE BY USING APPROVED WELDING PROCEDURE AND BY QUALIFIED WELDERS AS PER PROVISIONS OF IRS WELDED BRIDGE CODE. WELDERS QUALIFIED FOR A PARTICULAR WELD POSITION, WELDING TECHNIQUE AND SIZE ONLY, SHALL MAKE THE WELD.
- EXACT SIZE OF STIFFENER, GUSSET PLATES, COVER PLATES OF SPLICES AND INCLINED MEMBERS TO BE DETERMINED IN TEMPLATE SHOP ON LAYOUT BEFORE START OF EXECUTION OF WORK.
- HOLLOW RECTANGULAR PIPES SHOULD BE CLOSED AT OPEN END WITH ARRANGEMENT AS SHOWN TO REDUCE THE CHANCES OF CORROSION IN INNER SIDE OF RECTANGULAR HOLLOW PIPE.
- WELDING MAY BE DONE IN ACCORDANCE WITH PROVISIONS GIVEN FOR WELDING IN THE IRS WELDED BRIDGE CODE OR THE SPECIFICATION/CODES REFERRED IN THIS FOR THIS PURPOSE.
- ALL FILLET WELDS ARE OF 6 mm. SIZE UNLESS OTHERWISE SPECIFIED.
- ALL EDGES SHALL BE MACHINE FINISHED IN SPLICES.

SPECIAL:

- FEASIBILITY OF THIS STRUCTURE SHALL BE CHECKED AT SITE IN EVERY RESPECT BY ENGINEER INCHARGE BEFORE FABRICATION/ERECTION. IF THERE IS ANY CONFUSION/AMBIGUITY IN DIFFERENT DIMENSIONS PROVIDED IN THESE DRAWINGS, A FULL SCALE LAYOUT SHOULD BE PREPARED FOR THE VERIFICATION OF THE SAME BEFORE START OF EXECUTION OF THE WORK.
- NOMINAL COVER
(a) PRECAST SLAB -20MM
(b) FOUNDATION -75MM
- LAP LENGTH WHERE BARS OBTAINED ARE OF SHORTER LENGTH MUST NOT BE LESS 50 x DIA. OF BAR.
- ALL HOLLOW COLUMNS SHALL BE FILLED WITH SELF COMPACTING CONCRETE OF MINIMUM GRADE OF M20. THIS FILLING IS DONE TO ENSURE FIRE SAFETY AND PROTECTION FROM INSIDE CORROSION, STRUCTURE DESIGN IS SAFE WITHOUT THIS FILLING.
- BUTT WELD IN THE STRINGER BEAM OF RAMP MUST BE AT THE SEATING LOCATIONS.



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Email: ductile.dc@gmail.com
Website: www.ddcindia.in



R L D A



R D S O

Bhupender

BHUPENDER
DRAWN BY

Jitendra

JITENDRA
DESIGN BY

Vivek kv

VIVEK
CHECKED BY

Aramp

GM/DESIGN
CHECKED BY

als

ED/SD(PD)
APPROVED BY

K. Lai

DIRECTOR
CHECKED BY

2/3/2023

EXECUTIVE DIRECTOR
APPROVED BY

2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION

SCHEMATIC VIEW &
NOTES

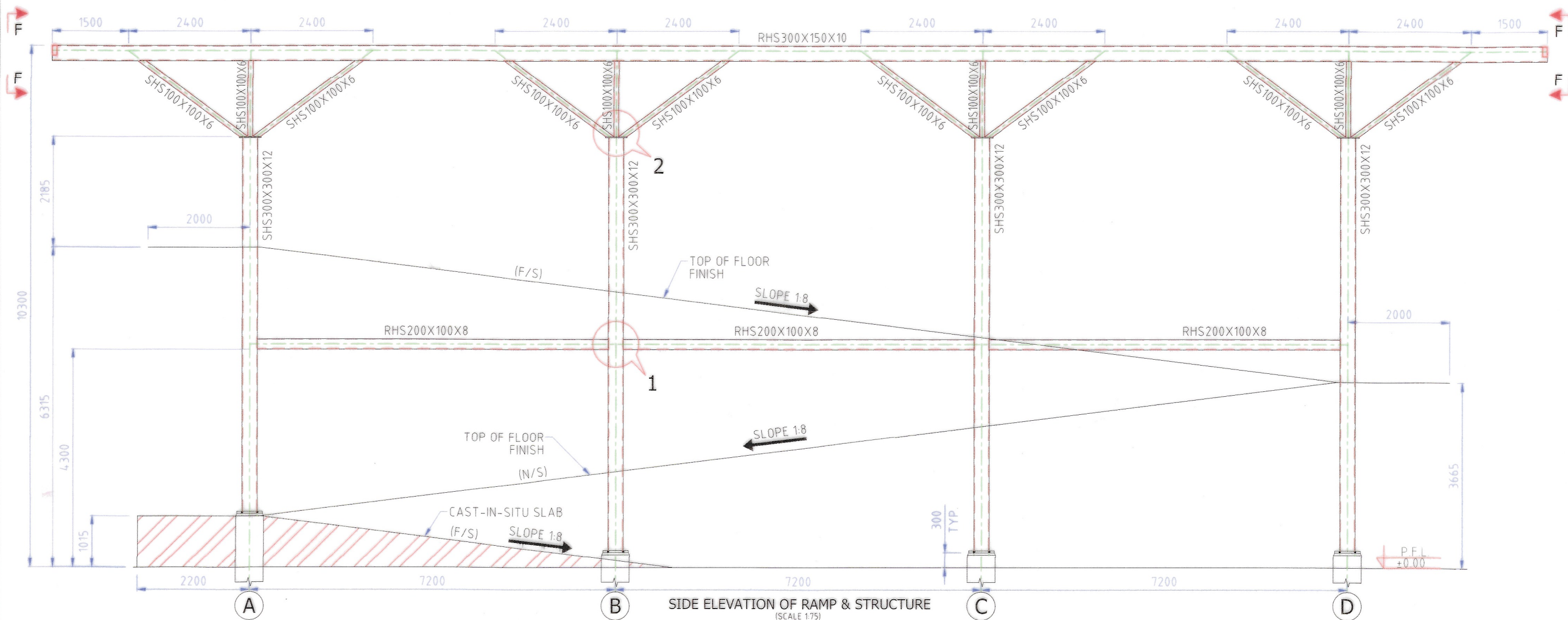
SIZE

A3

DRAWING NO.

RDSO/B-10439

DATE 26.02.2023



(F/S)	FAR SIDE
(N/S)	NEAR SIDE
(P.F.L.)	PLATFORM LEVEL

THE DESIGN HAS BEEN STRUCTURALLY CHECKED BY RDSO AND FOUND OK

NOTES-

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED AND NO DIMENSIONS SHOULD BE SCALED FROM THIS DRAWING.
2. FOR OTHER NOTES REFER DWG. NO. RDSO/B-10439



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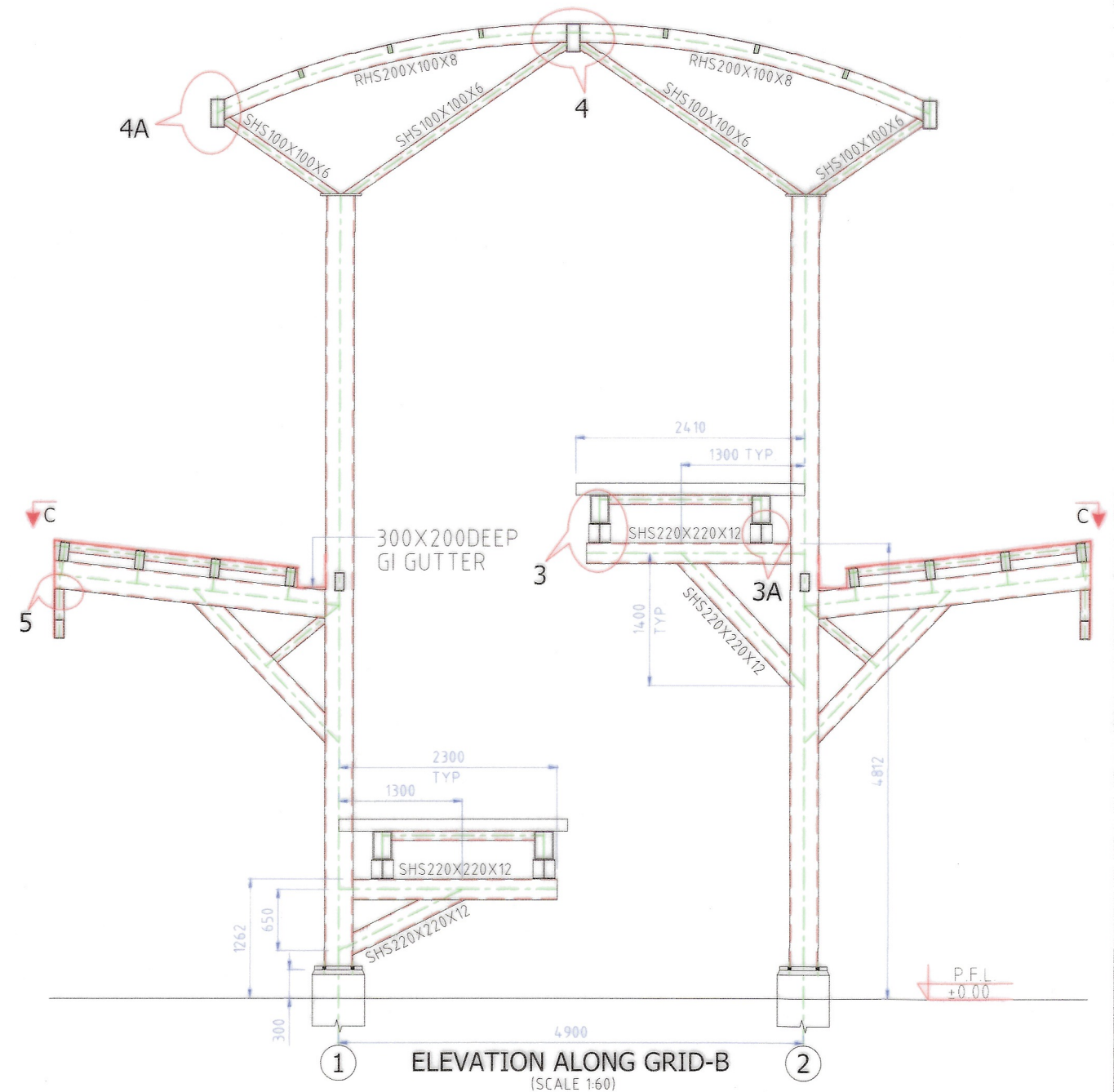
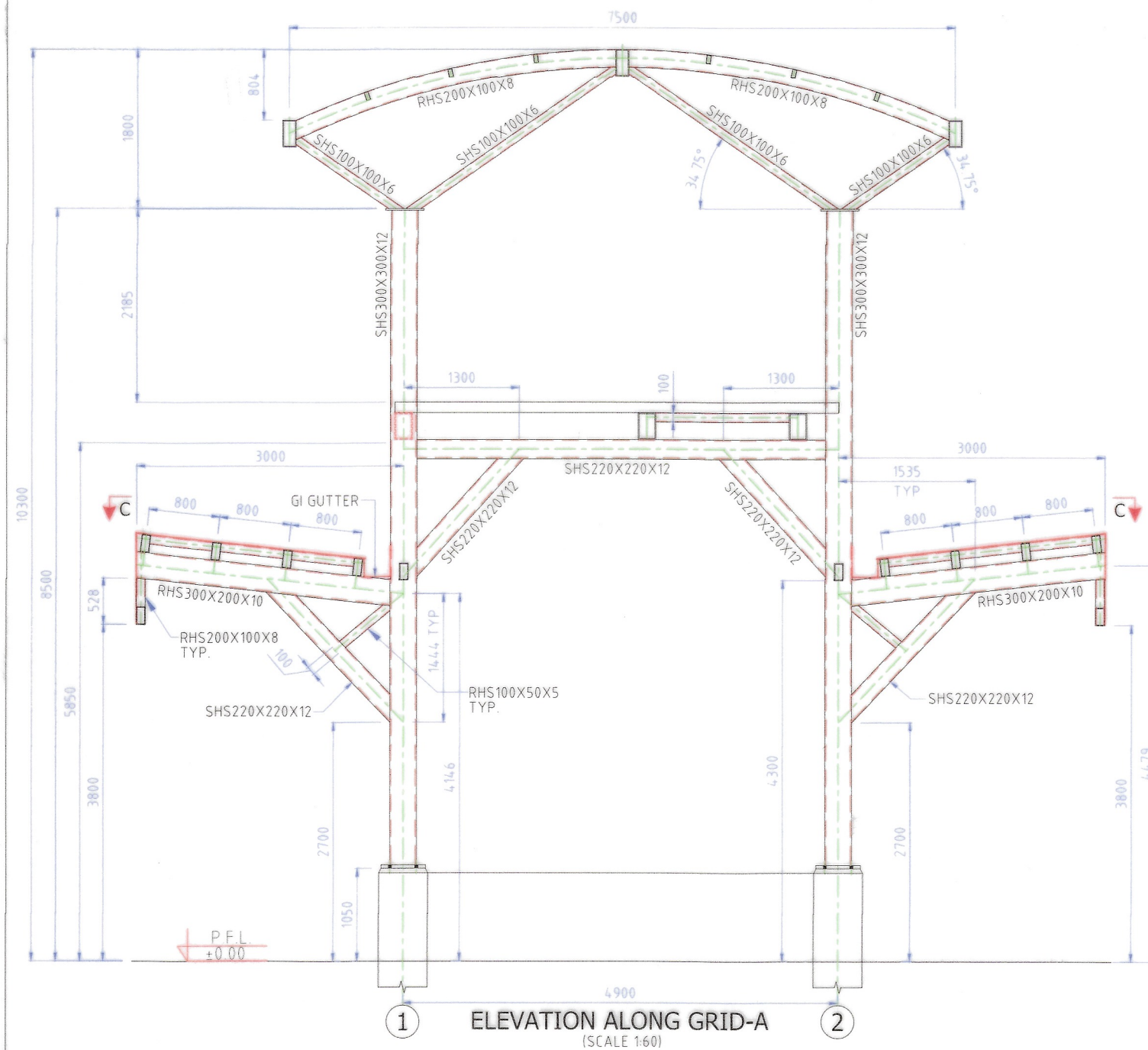
R L D A



R D S O

**2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION**

Bhupender	Jitendra	Vivek K	Ganesh	Utsav	Devi	Pradeep	SIDE ELEVATION OF RAMP	SIZE A3	DRAWING NO. RDSO/B-10439/1
BHUPENDER DRAWN BY	JITENDRA DESIGN BY	VIVEK CHECKED BY	GM/DESIGN CHECKED BY	ED/SD(PD) APPROVED BY	DIRECTOR CHECKED BY	EXECUTIVE DIRECTOR APPROVED BY			DATE 26.02.2023



(F/S)	FAR SIDE
(N/S)	NEAR SIDE
(P.F.L)	PLATFORM LEVEL

THE DESIGN HAS BEEN STRUCTURALLY CHECKED BY RDSO AND FOUND OK

NOTES-

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2. FOR OTHER NOTES REFER DWG. NO. RDSO/B-10439

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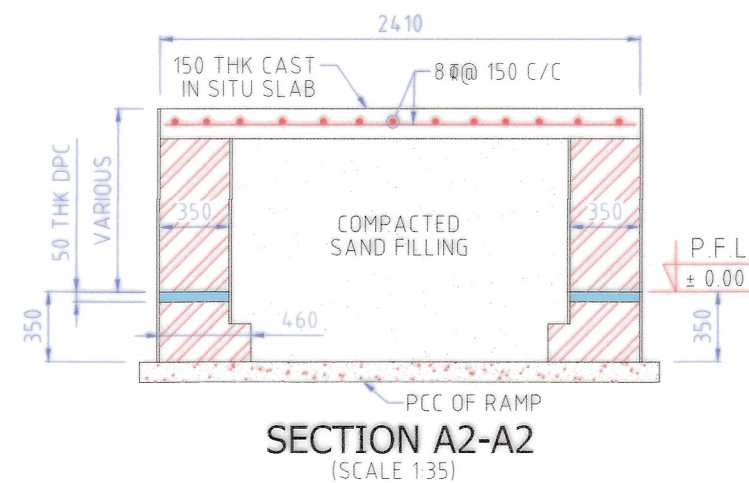
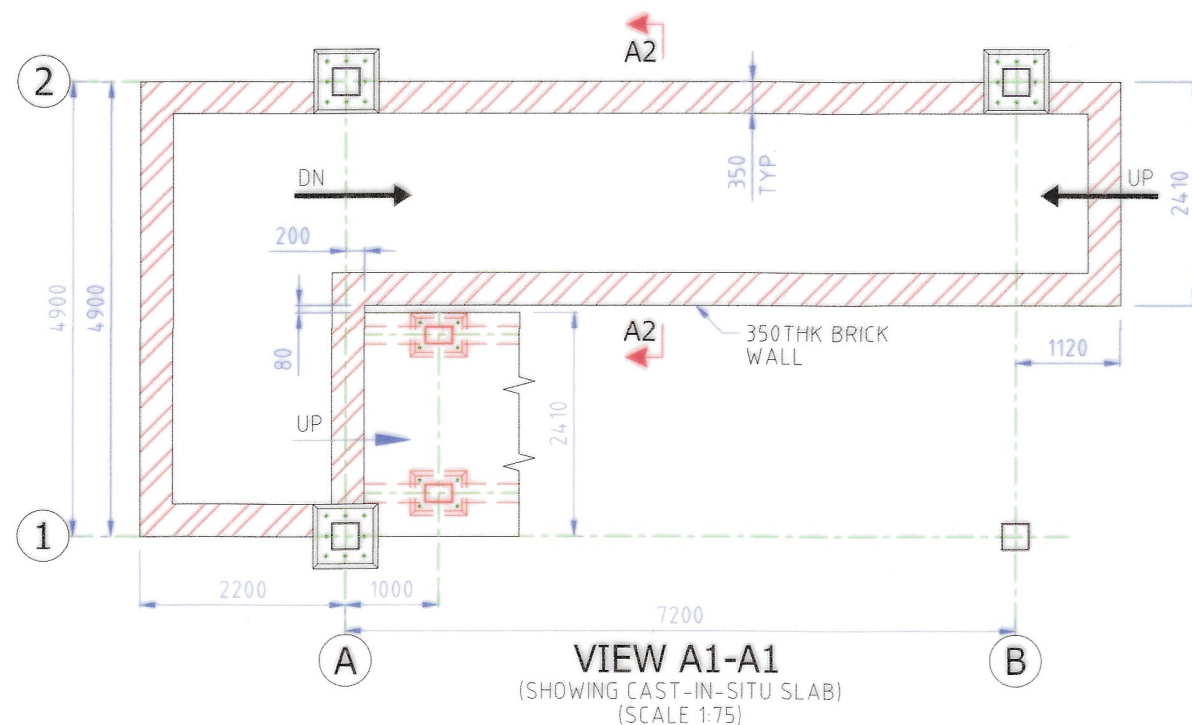
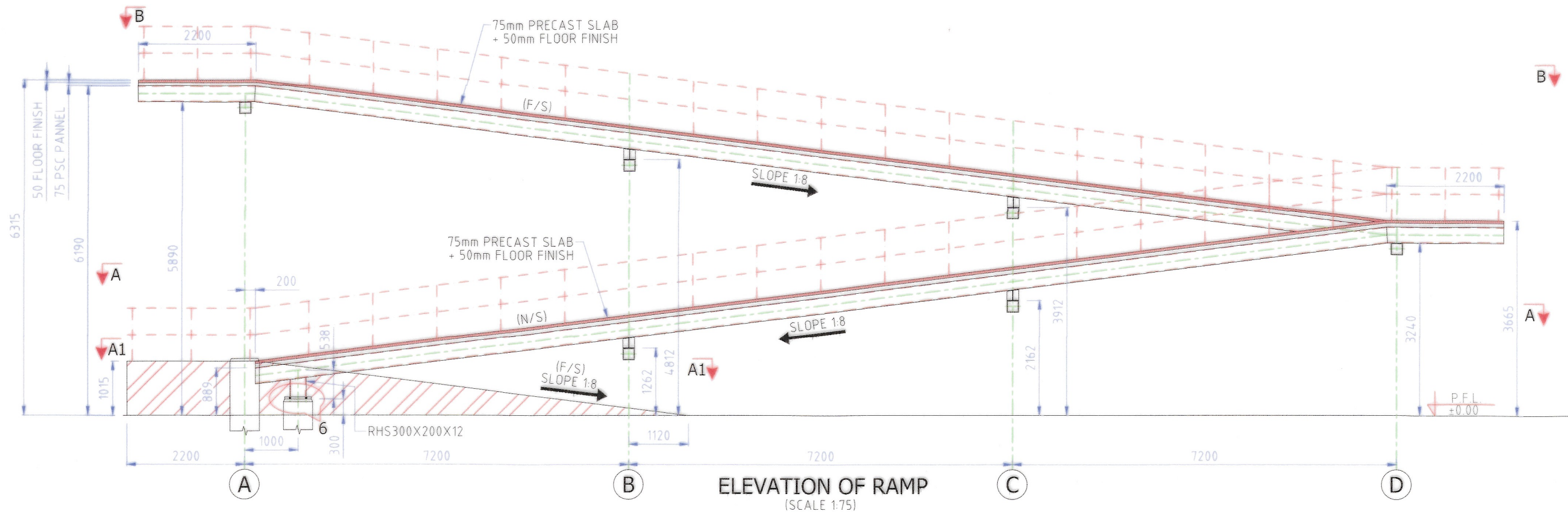
R L D A



R D S O

2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION

						
BHUPENDER DRAWN BY	JITENDRA DESIGN BY	VIVEK CHECKED BY	GM/DESIGN CHECKED BY	ED/SD(PD) CHECKED BY	DIRECTOR CHECKED BY	EXECUTIVE DIRECTOR APPROVED BY



(F/S)	FAR SIDE
(N/S)	NEAR SIDE
(P.F.L.)	PLATFORM LEVEL

NOTES-

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R L D A



R D S O

**2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION**

Bhupender

Jitendra

Vivek kv

Ganesh

Usha

Director

Executive Director

BHUPENDER
DRAWN BY

JITENDRA
DESIGN BY

VIVEK
CHECKED BY

GM/DESIGN
CHECKED BY

ED/SD(PD)
APPROVED BY

DIRECTOR
CHECKED BY

EXECUTIVE DIRECTOR
APPROVED BY

RAMP ELEVATION

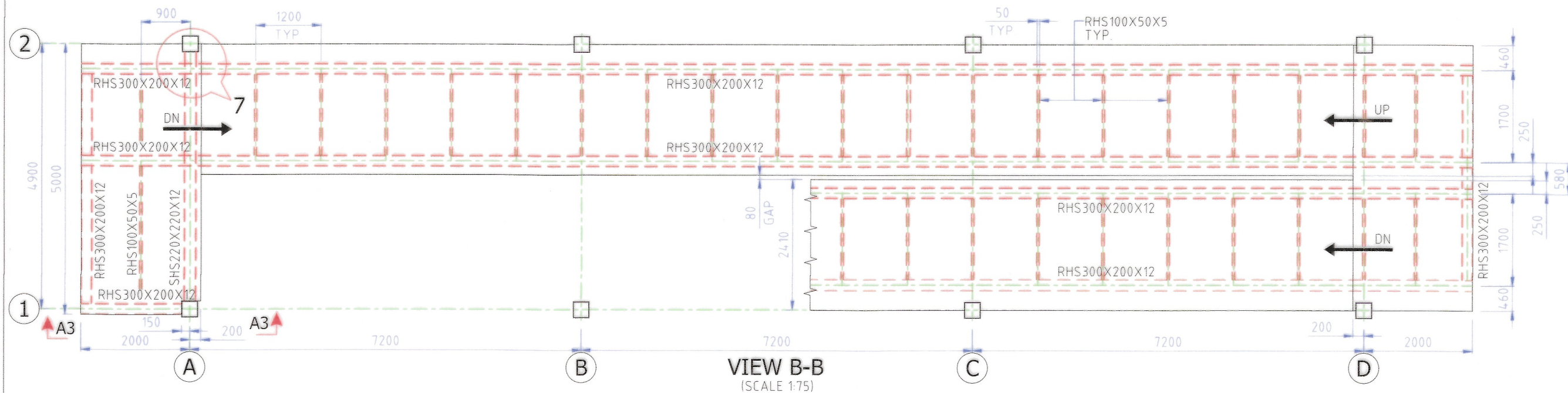
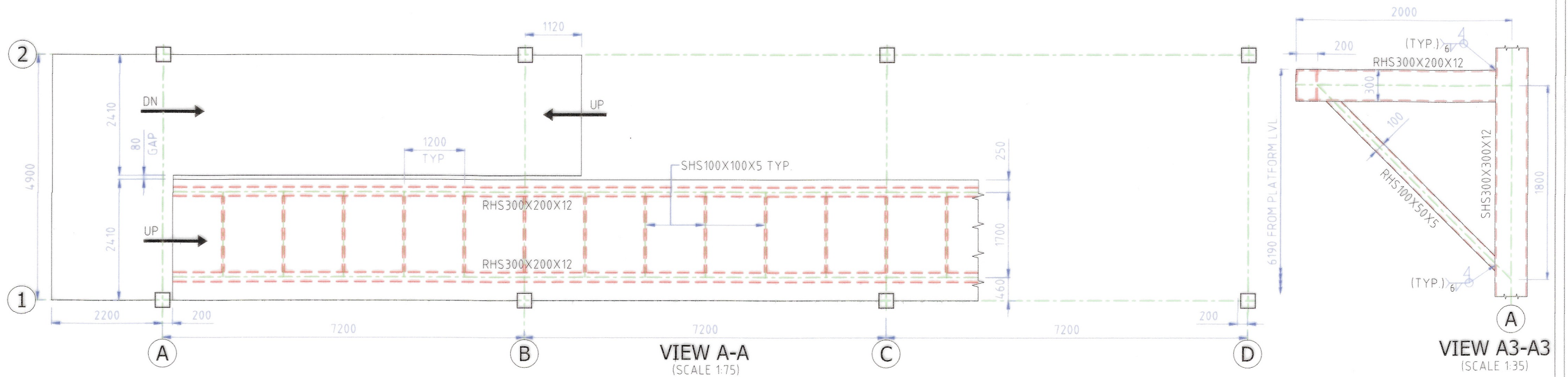
SIZE

DRAWING NO.

RDSO/B-10439/4

A3

DATE 26.02.2023



NOTES-

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED AND NO DIMENSIONS SHOULD BE SCALED FROM THIS DRAWING.
2. FOR OTHER NOTES REFER DWG. NO. RDSO/B-10439

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Website: www.ddcindia.in



R L D A



R D S O

**2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION**

Bhupender
BHUPENDER
DRAWN BY

Jitendra
JITENDRA
DESIGN BY

Vivek kv
VIVEK
CHECKED BY

Ganesh
GM/DESIGN
CHECKED BY

965
ED/SD(PD)
APPROVED BY

965
ED/SD(PD)
APPROVED BY

965
DIRECTOR
CHECKED BY

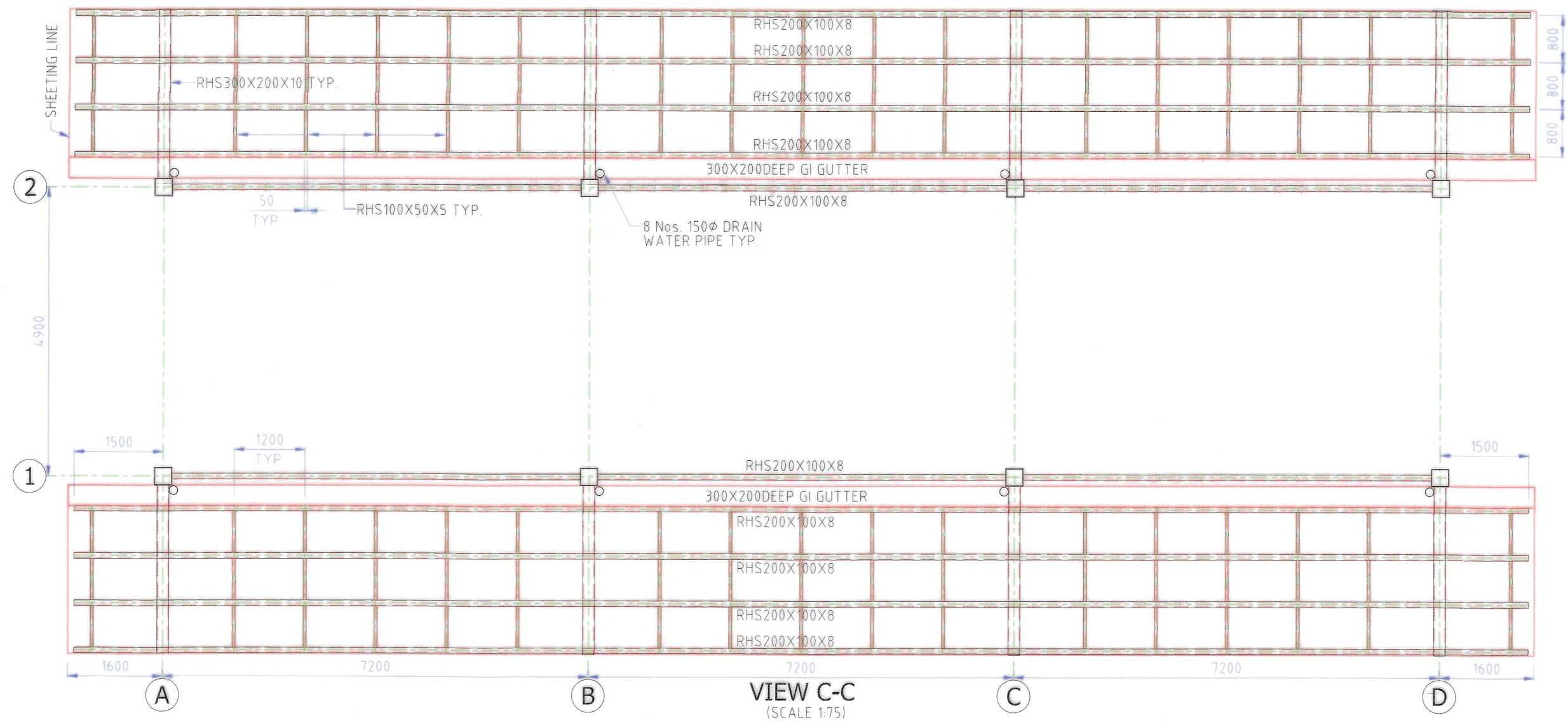
965
EXECUTIVE DIRECTOR
APPROVED BY

RAMP VIEWS A & B

SIZE
A3

DRAWING NO.
RDSO/B-10439/5

DATE
26.02.2023



NOTES-

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Website: www.ddcindia.in



R L D A



R D S O

**2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION**

Bhupender

Jitendra

Vivek K

Ganesh

Usha

Director

Executive Director

BHUPENDER
DRAWN BY

JITENDRA
DESIGN BY

VIVEK
CHECKED BY

GM/DESIGN
CHECKED BY

ED/SD(PD)
APPROVED BY

DIRECTOR
CHECKED BY

EXECUTIVE DIRECTOR
APPROVED BY

PURLIN PLAN OF
CANOPY

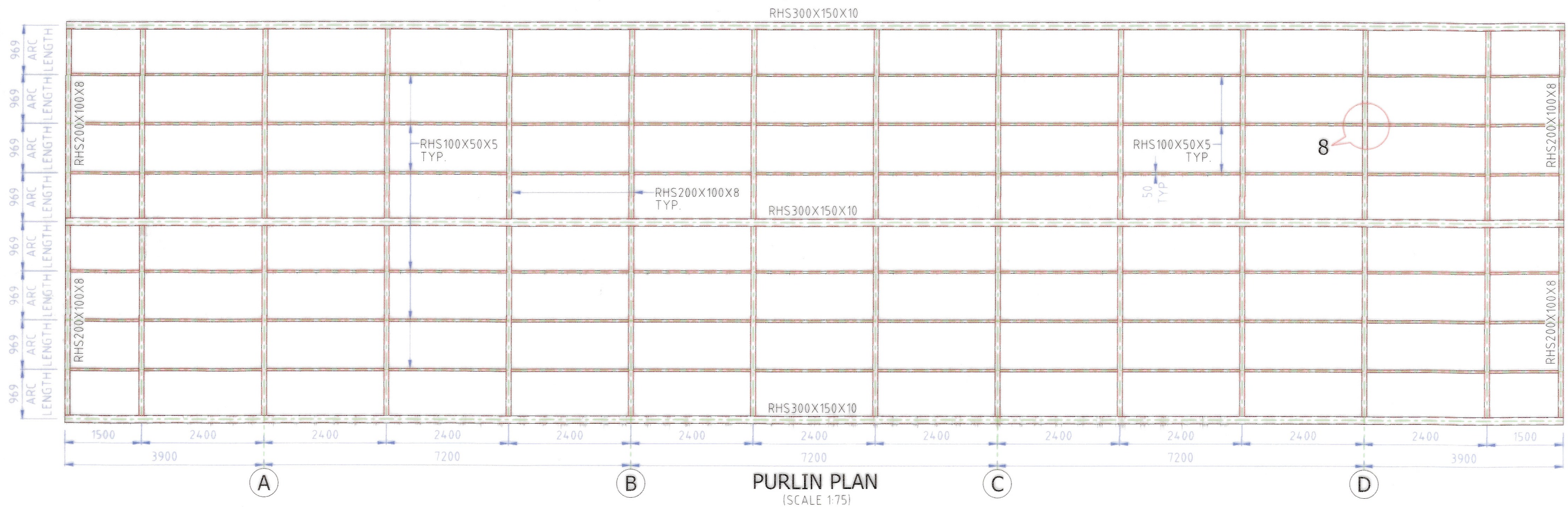
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DRAWING NO.

RDSO/B-10439/6

DATE 26.02.2023



NOTES-

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Website: www.ddcindia.in



R L D A



R D S O

**2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION**

Bhupender

Jitendra

Vivek kv

Ganesh

Ubs

Pran

Pran

BHUPENDER
DRAWN BY

JITENDRA
DESIGN BY

VIVEK
CHECKED BY

GM/DESIGN
CHECKED BY

ED/SD(PD)
APPROVED BY

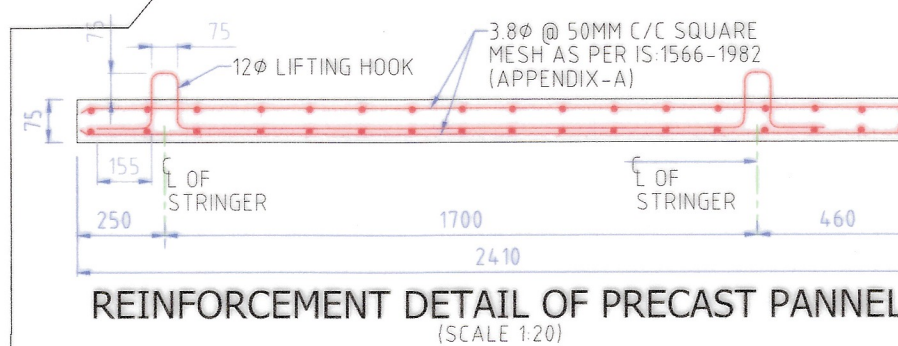
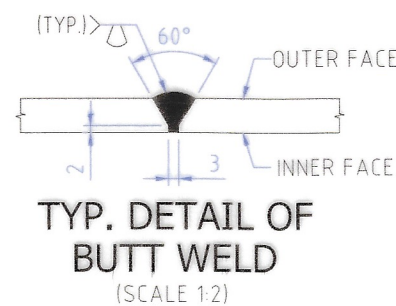
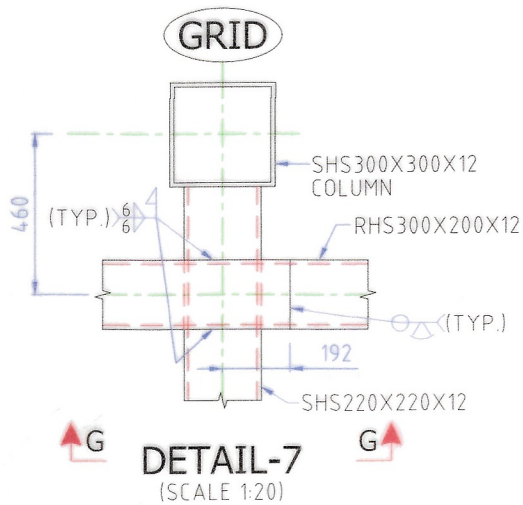
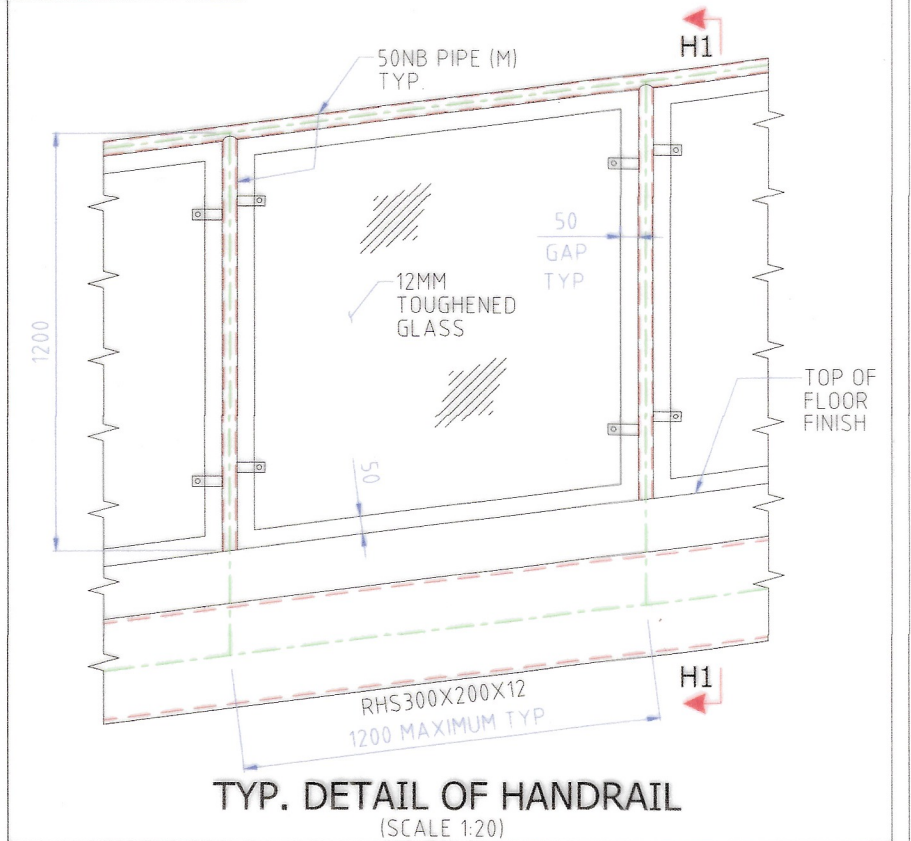
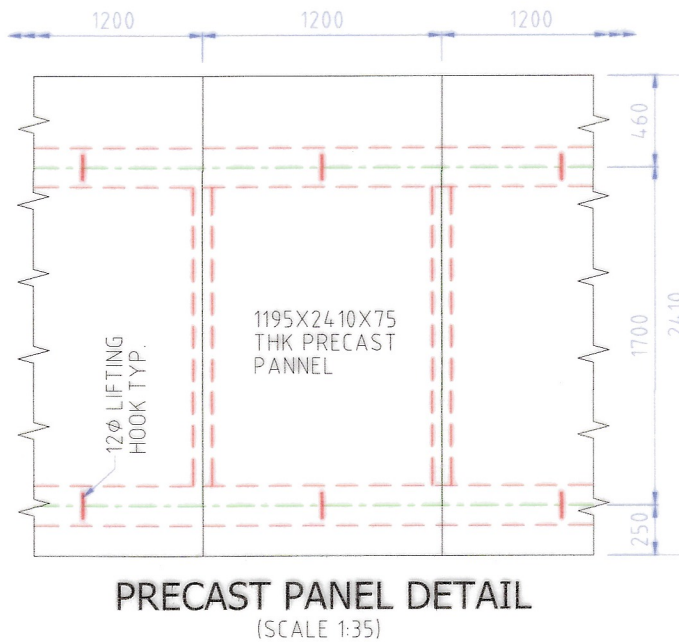
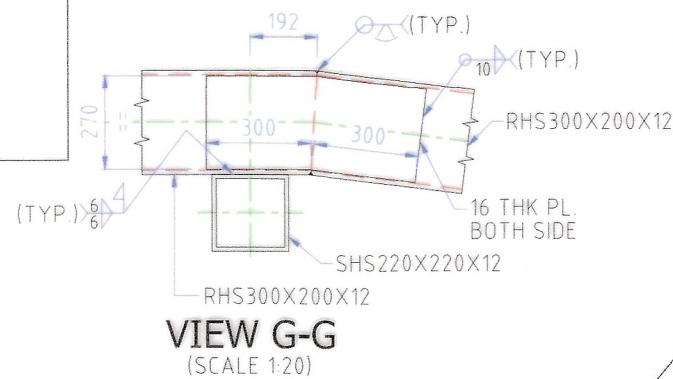
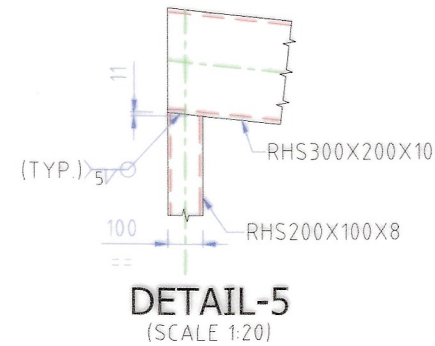
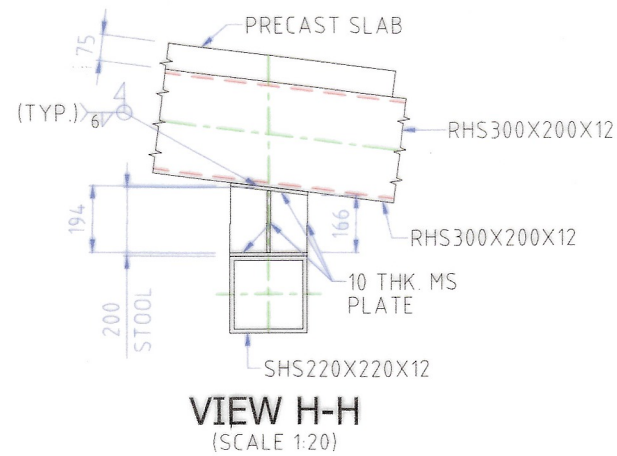
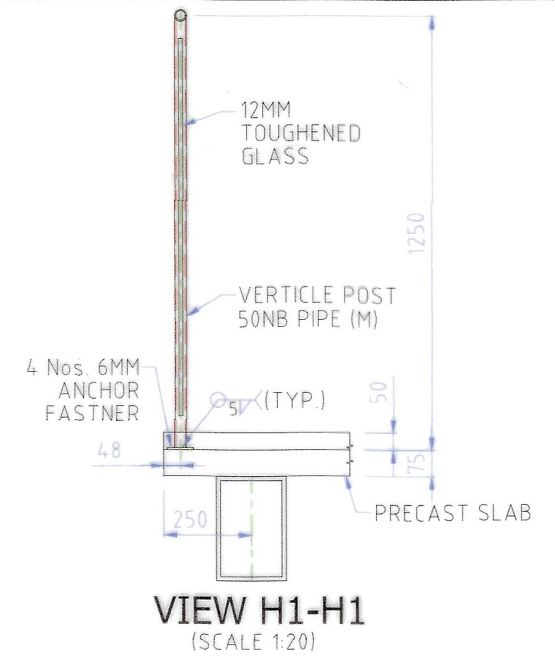
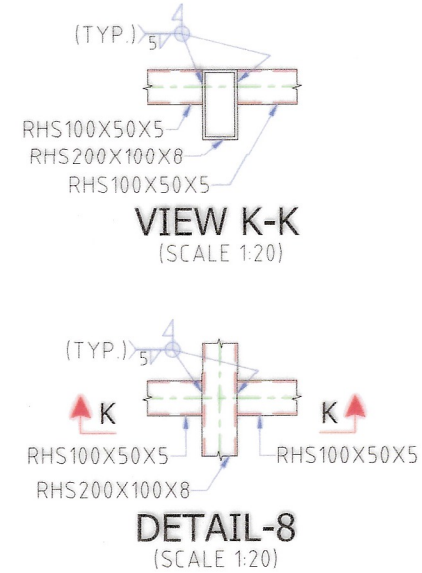
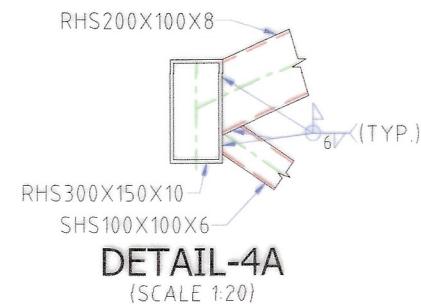
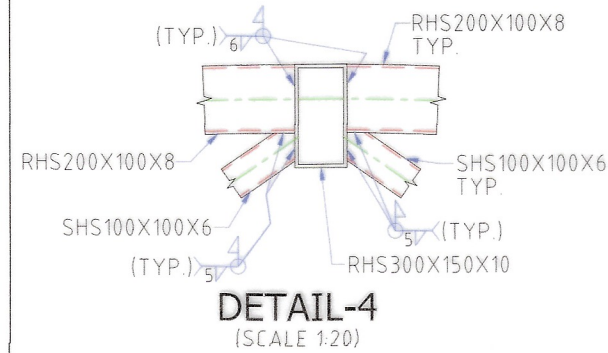
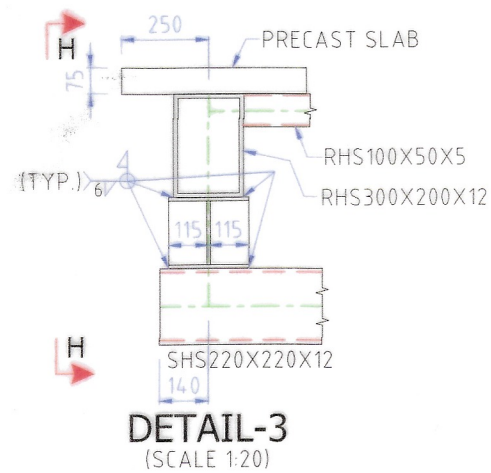
DIRECTOR
CHECKED BY

EXECUTIVE DIRECTOR
APPROVED BY

PURLIN PLAN OF
ROOF

SIZE
A3

DRAWING NO.
RDSO/B-10439/7
DATE 26.02.2023



NOTES-

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3. THE DESIGN HAS BEEN STRUCTURALLY CHECKED BY RDSO AND FOUND OK.



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R L D A



R D S O

2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION

CONNECTION DETAIL
2

SIZE
A3
DRAWING NO.
RDSO/B-10439/9
DATE 26.02.2023

Bhupender

BHUPENDER
DRAWN BY

Jitendra

JITENDRA
DESIGN BY

Vivek K

VIVEK
CHECKED BY

Ganesh

GM/DESIGN
CHECKED BY

Shashi

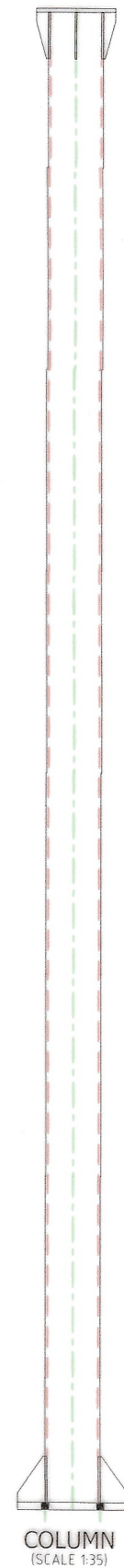
ED/SD(PD)
APPROVED BY

Shashi

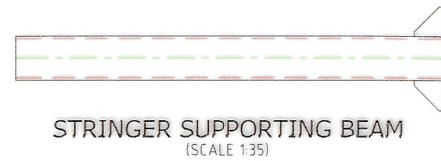
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CHECKED BY

Shashi

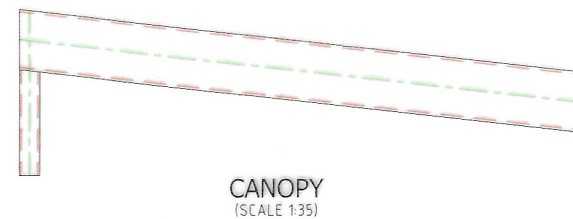
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APPROVED BY



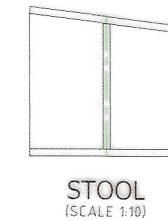
COLUMN
(SCALE 1:35)



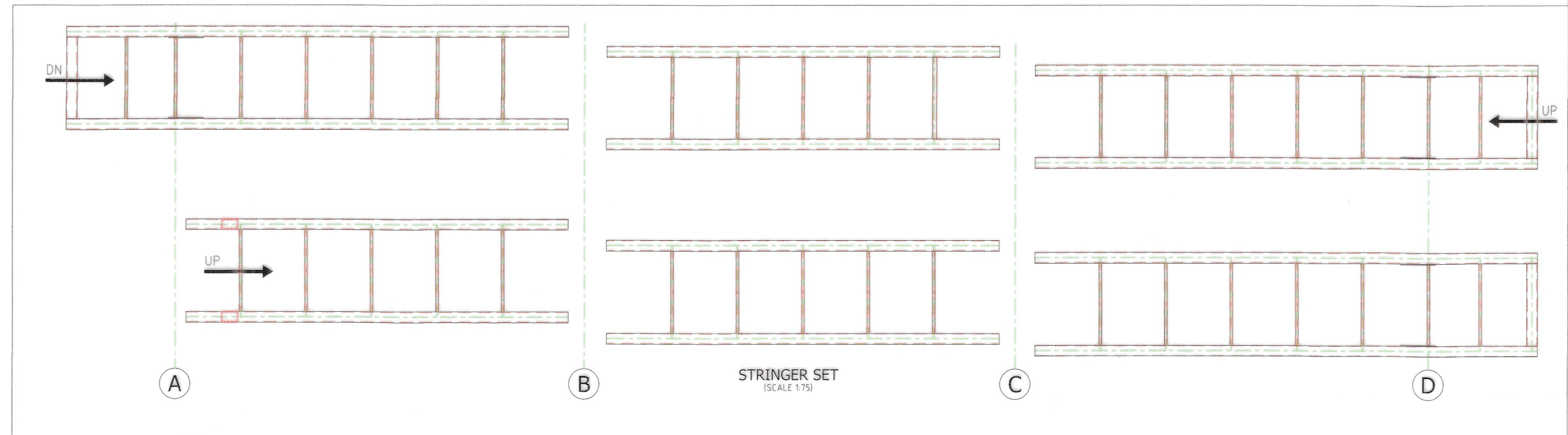
STRINGER SUPPORTING BEAM
(SCALE 1:35)



CANOPY
(SCALE 1:35)



STOOL
(SCALE 1:10)



STRINGER SET
(SCALE 1:75)

NOTES-

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Website: www.ddcindia.in



R L D A



R D S O

2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION

Bhupender

Jitendra

Vivek kr

Ganesh

Usha

Director

Executive Director

BHUPENDER
DRAWN BY

JITENDRA
DESIGN BY

VIVEK
CHECKED BY

GM/DESIGN
CHECKED BY

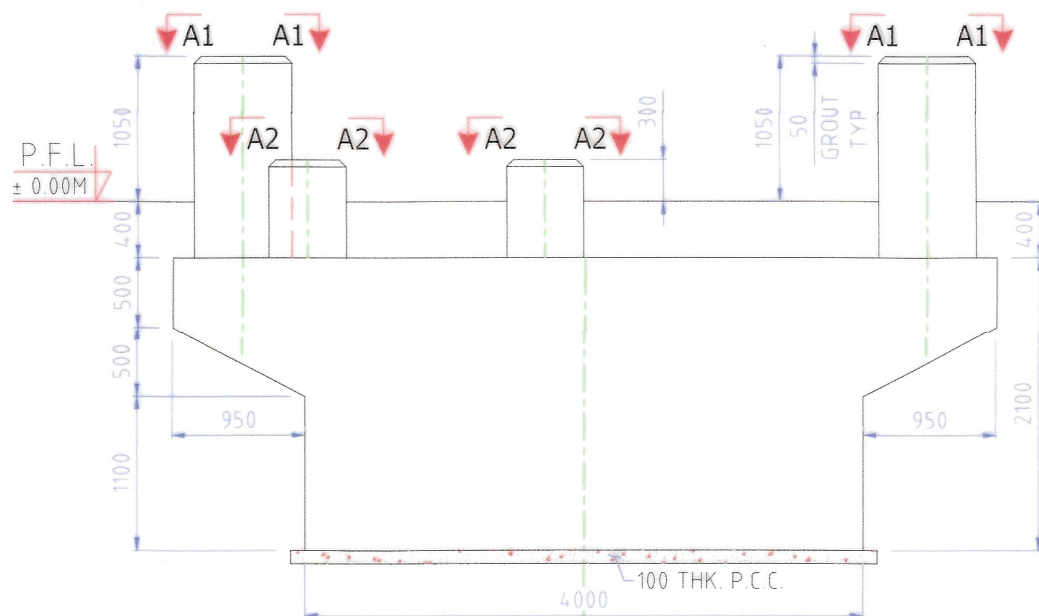
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APPROVED BY

DIRECTOR
CHECKED BY

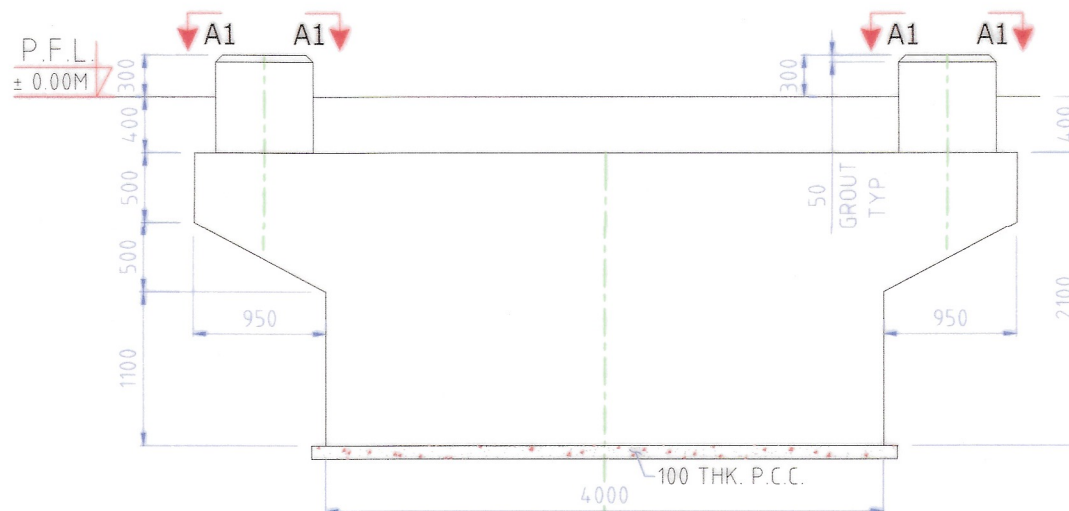
EXECUTIVE DIRECTOR
APPROVED BY

SHOP WELDED
COMPONENTS

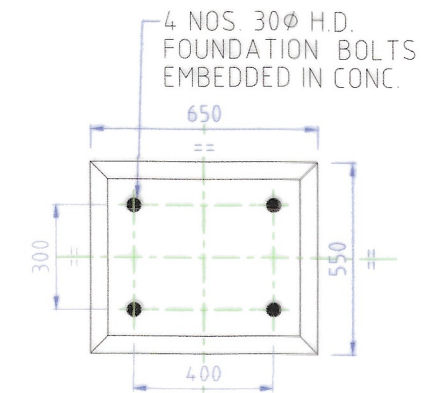
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DRAWING NO.
RDSO/B-10439/10
DATE 26.02.2023



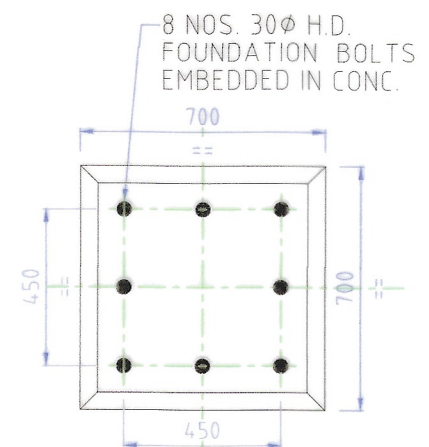
VIEW A-A
(SCALE 1:50)



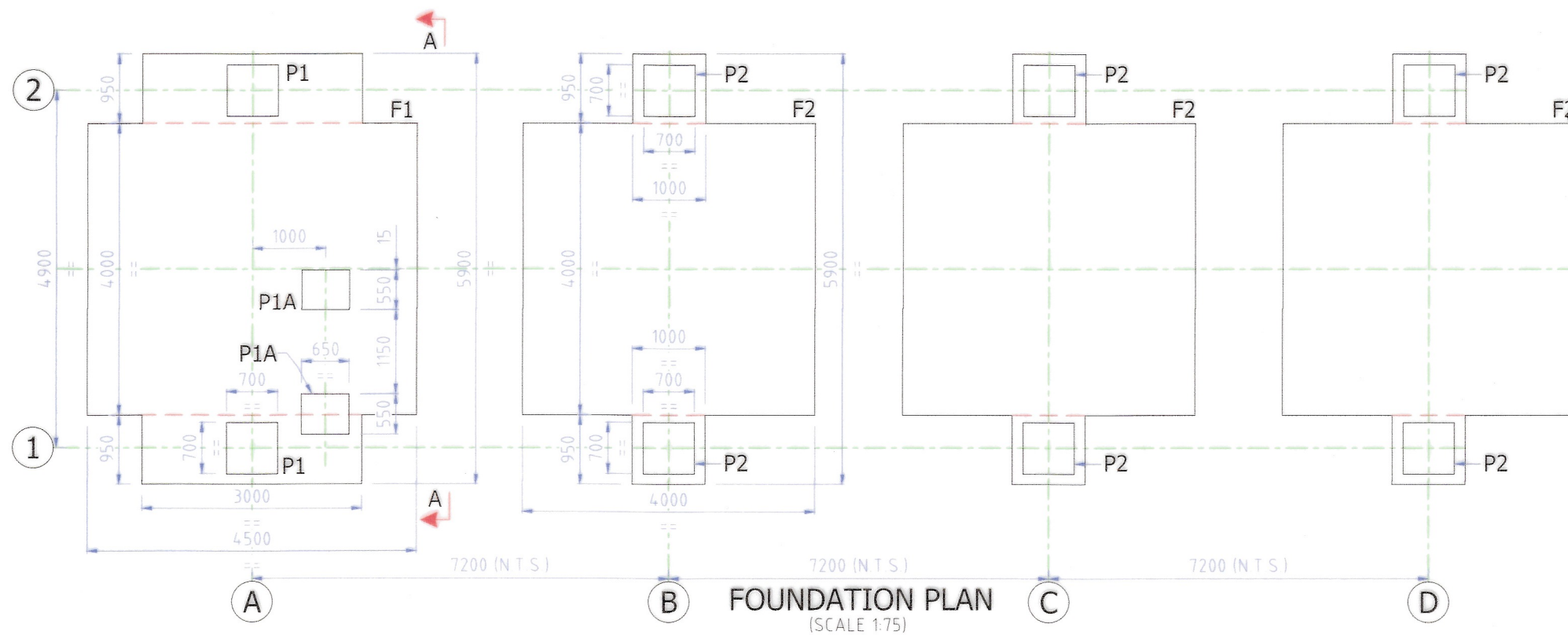
ELEVATION ALONG GRID-B,C,D
(SCALE 1:50)



VIEW A2-A2
(SCALE 1:20)



VIEW A1-A1
(SCALE 1:20)



FOUNDATION PLAN
(SCALE 1:75)

NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER. AND ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
- ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
- ALL RCC WORK SHALL BE IN MIX M25
- ALL PCC WORK SHALL BE IN 1:4:8
- CLEAR COVER TO MAIN REINFORCEMENTS SHALL BE:-
 - FOUNDATION = 75mm.
 - PEDESTAL = 75mm.
- FOUNDATION IS DESIGNED FOR MINIMUM SAFE BEARING CAPACITY OF 16.0 T/SQ.M. AT FOUNDING LVL.
- EXCAVATED EARTH (BLACK COTTON SOIL) SHALL NOT BE USED FOR BACKFILLING AROUND FOUNDATIONS. ALL BACK FILLING SHALL BE CARRIED OUT USING GRANULAR SOIL ONLY. GRANULAR SOIL (MOORUM) BACKFILLING SHALL BE LAID IN LAYERS NOT EXCEEDING 300mm & SHALL BE COMPACTED TO 95% PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.
- STRUCTURE IS DESIGNED FOR EARTHQUAKE ZONE-IV

10. THE DESIGN HAS BEEN STRUCTURALLY CHECKED BY RDSO AND FOUND OK.



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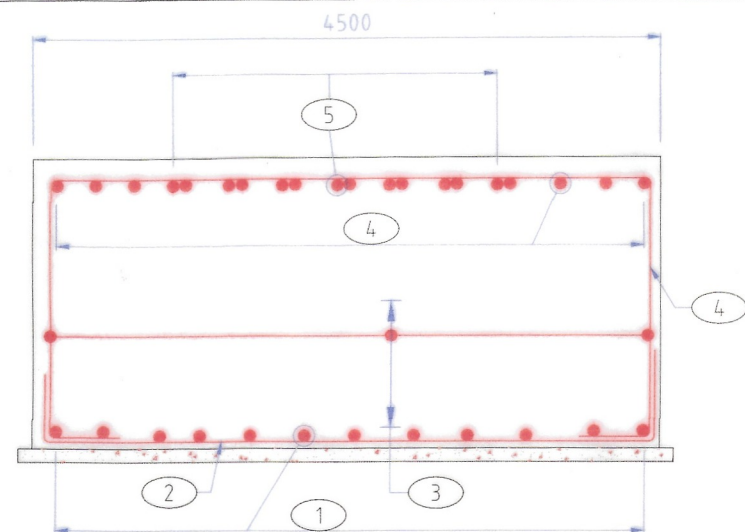
R L D A



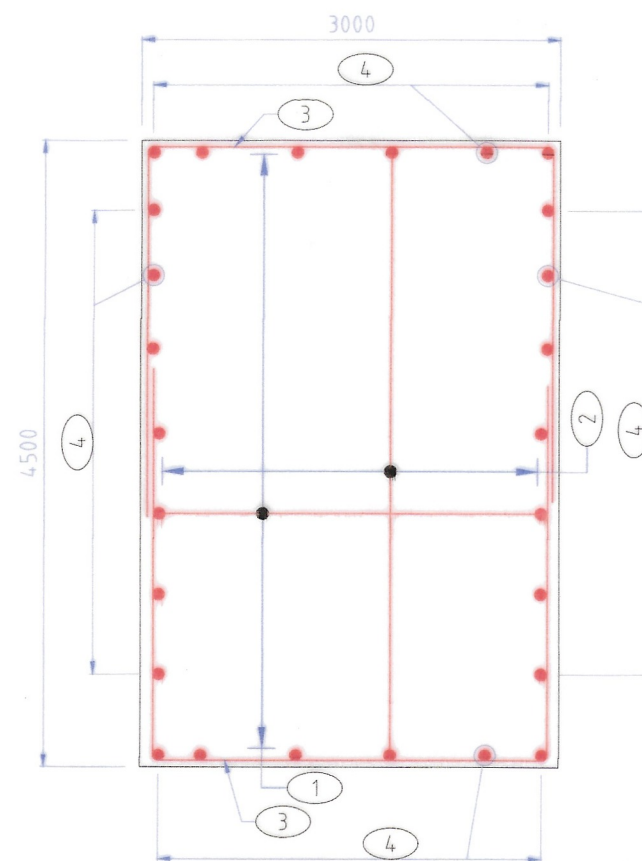
R D S O

2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION

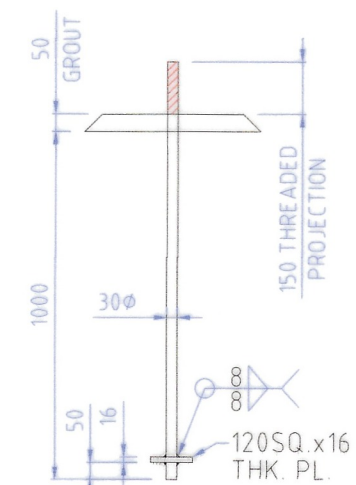
Bhupender	Jitendra	Vivek K.	Ganesh	gls	Director	Executive Director	FOUNDATION LAYOUT	SIZE A3	DRAWING NO. RDSO/B-10439/11
BHUPENDER DRAWN BY	JITENDRA DESIGN BY	VIVEK CHECKED BY	GM/DESIGN CHECKED BY	ED/SD(PD) APPROVED BY	DIRECTOR CHECKED BY	EXECUTIVE DIRECTOR APPROVED BY			DATE 26.02.2023



VIEW F-F
(SCALE 1:50)

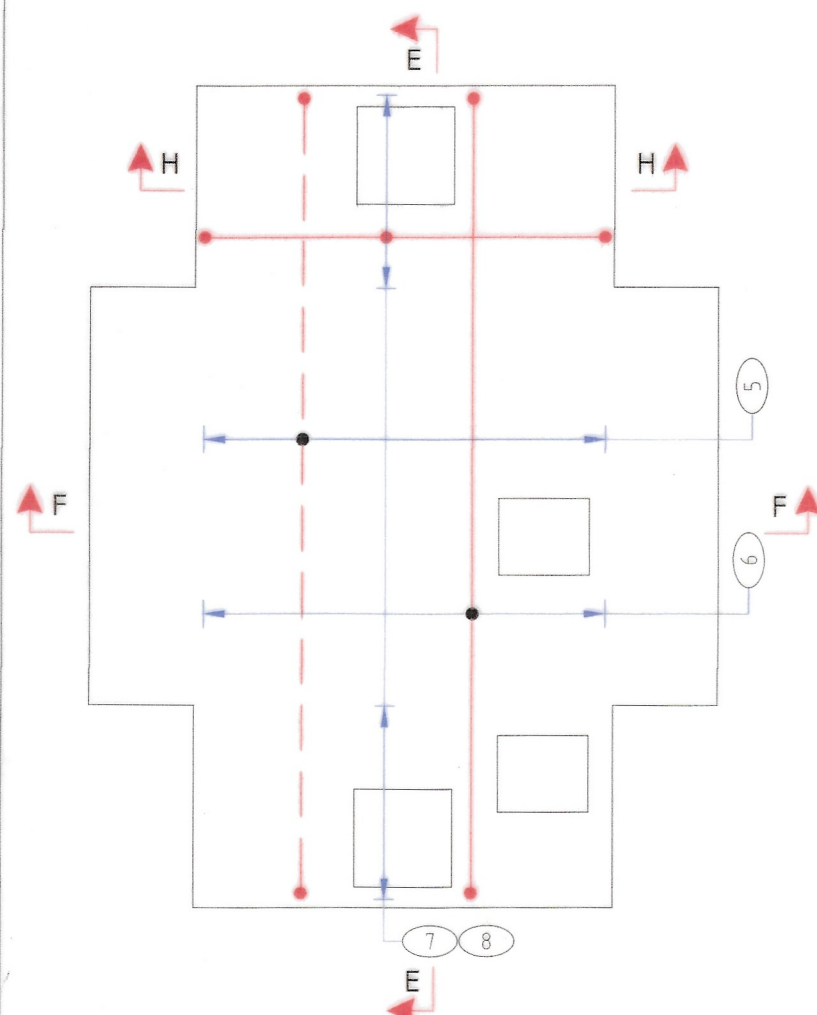


VIEW G-G
(SCALE 1:50)

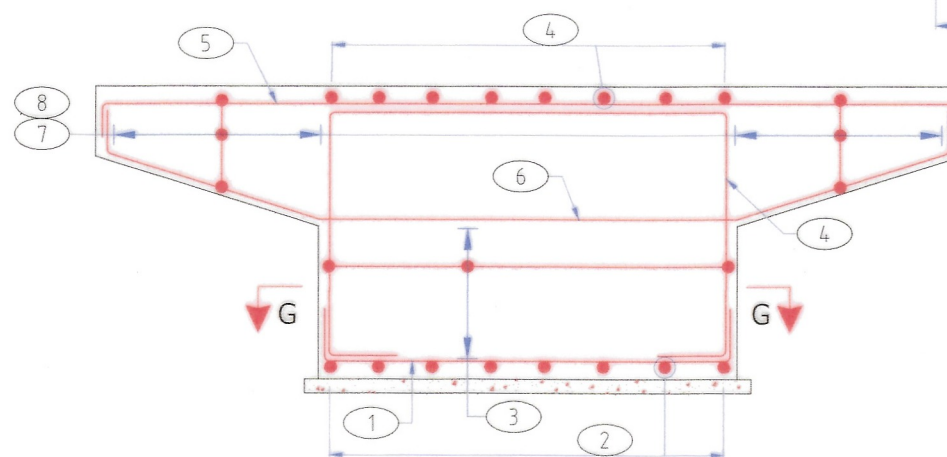


DETAIL OF M30 MS.
FOUNDATION BOLT
(SCALE 1:20)

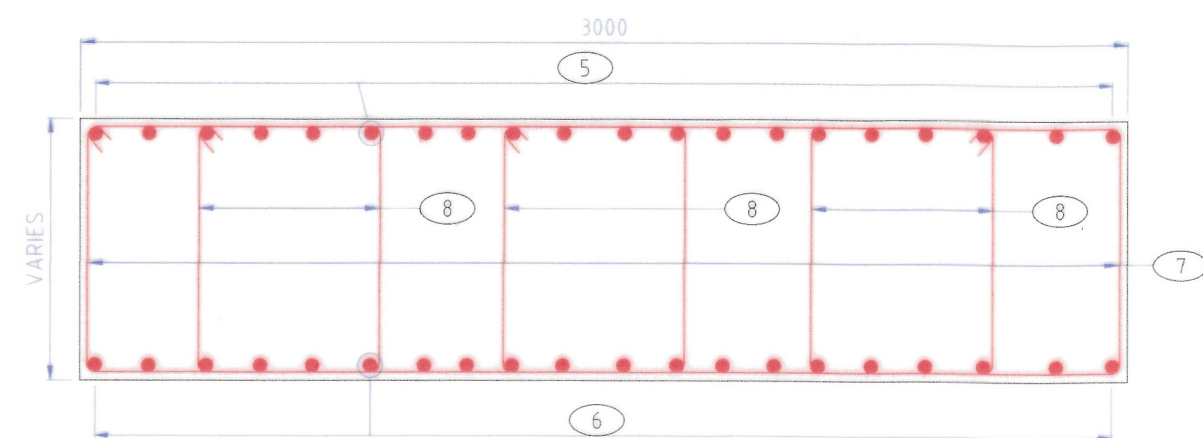
REINFORCEMENT SCHEDULE			
DESCRIPTION	BAR MKD.	SHAPE OF BAR	DIA OF BAR & SPACING (mm)/ NOS.
FOUNDATION F1	①	800 800	12 @ 150 C/C
	②	800 800	12 @ 150 C/C
	③		12 @ 150 C/C
	④		20 @ 150 C/C
	⑤	800 800	25 @ 150 C/C
	⑥	800 800	16 @ 150 C/C
	⑦		12 @ 150 C/C (STIRUPS)
	⑧		12 @ 150 C/C (STIRUPS)



REINF. DETAIL OF
FOUNDATION MKD. F1
(SCALE 1:50)



VIEW E-E
(SCALE 1:50)



SECTION H-H
(SCALE 1:20)

NOTES-

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED AND NO DIMENSIONS SHOULD BE SCALED FROM THIS DRAWING.
- FOR OTHER NOTES REFER DWG. NO. RDSO/B-10439/11

THE DESIGN HAS BEEN STRUCTURALLY
CHECKED BY RDSO AND FOUND
OK.



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R L D A



R D S O

2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION

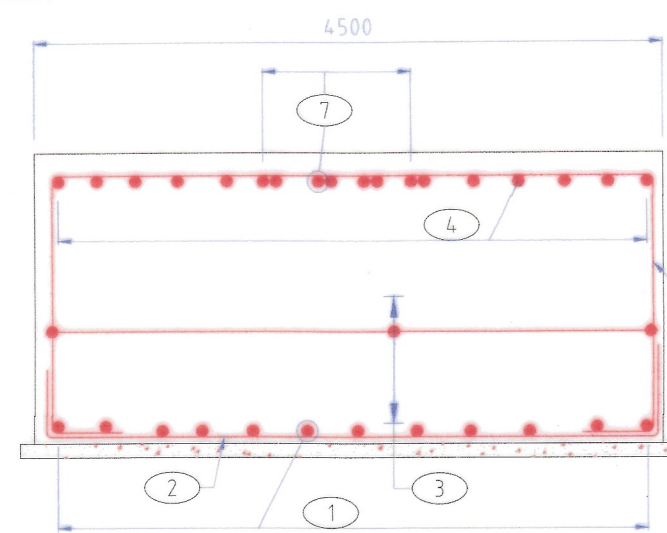
Bhupender	Jitendra	Vivek kv
BHUPENDER DRAWN BY	JITENDRA DESIGN BY	VIVEK CHECKED BY

Gm/Design	Ed/SD(PD)
GM/DESIGN CHECKED BY	ED/SD(PD) APPROVED BY

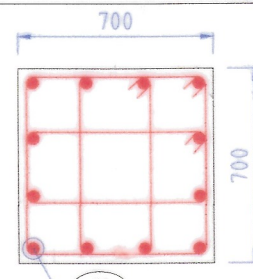
Director	Executive Director
DIRECTOR CHECKED BY	EXECUTIVE DIRECTOR APPROVED BY

FOUNDATION DETAIL
PART 1

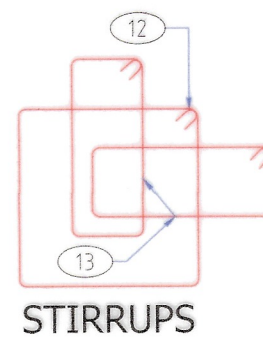
SIZE	DRAWING NO.
A3	RDSO/B-10439/12
	DATE 26.02.2023



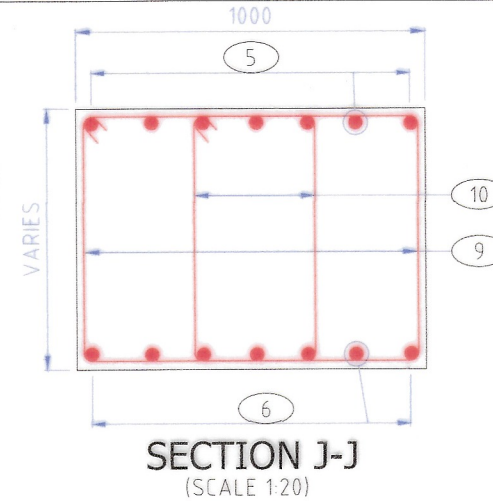
VIEW L-L
(SCALE 1:50)



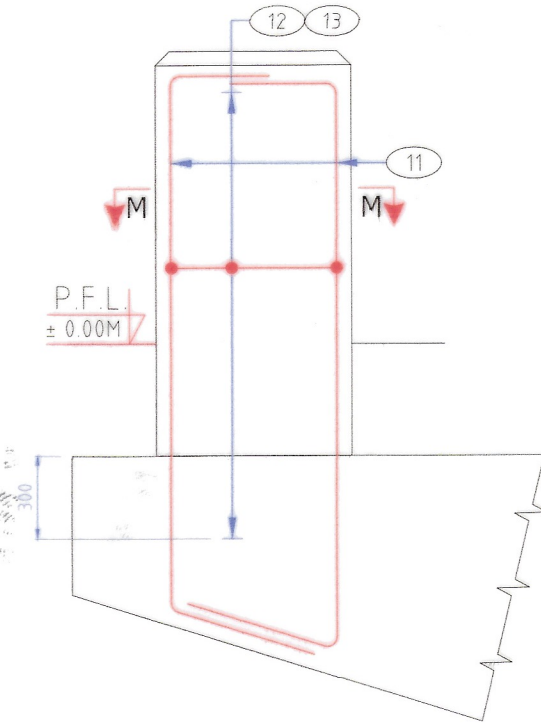
VIEW M-M
(REINF. ONLY)
(SCALE 1:25)



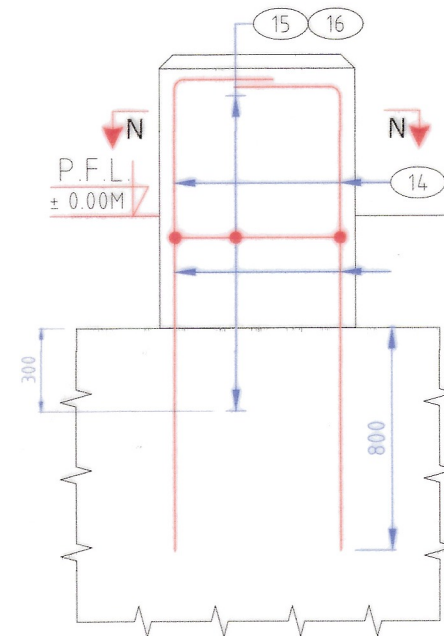
STIRRUPS



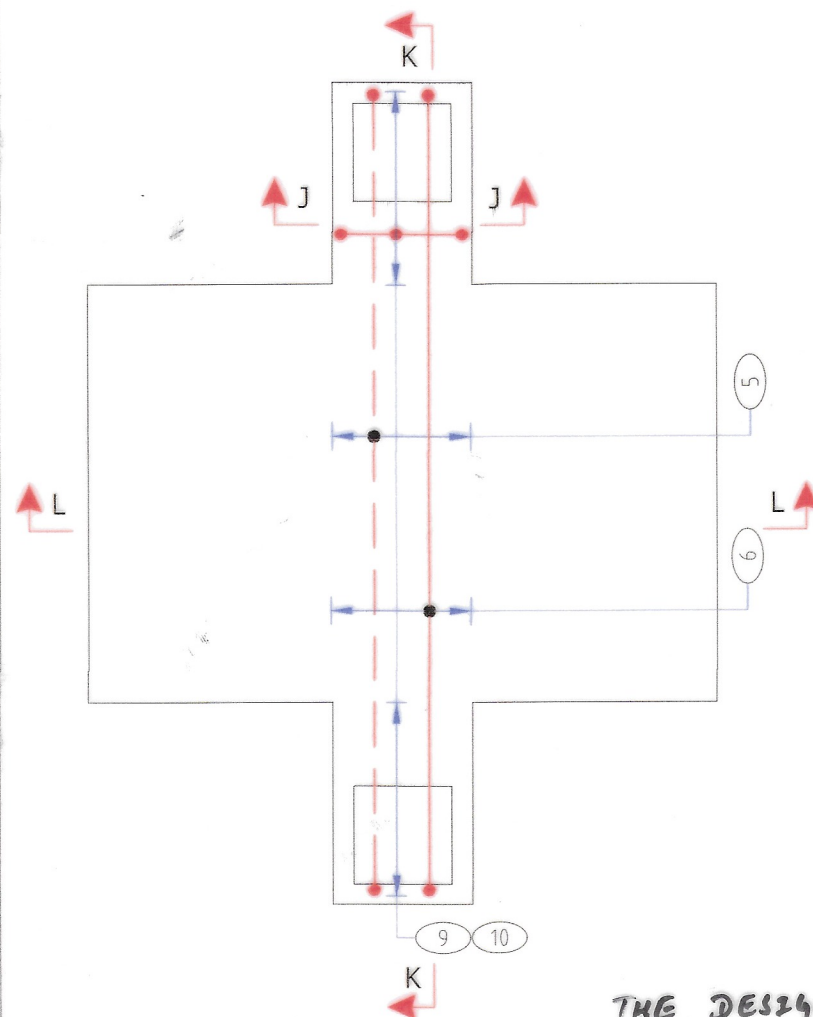
SECTION J-J
(SCALE 1:20)



REINF. DETAIL OF
PEDESTAL MKD. P1 & P2
(SCALE 1:25)

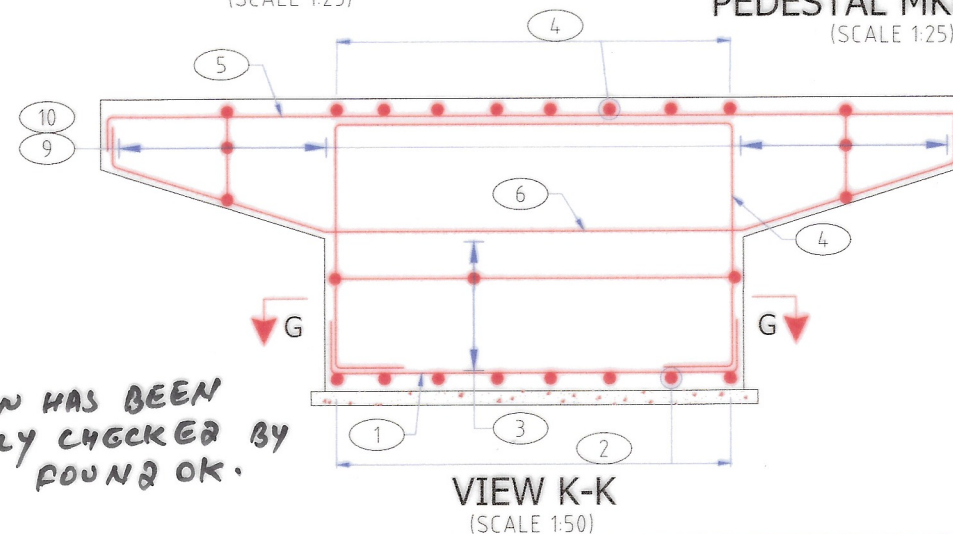


REINF. DETAIL OF
PEDESTAL MKD. P1A
(SCALE 1:25)

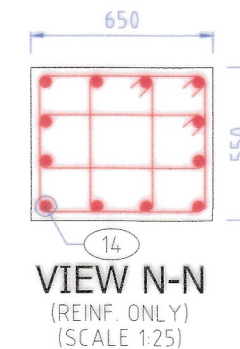


REINF. DETAIL OF
FOUNDATION MKD. F2
(SCALE 1:50)

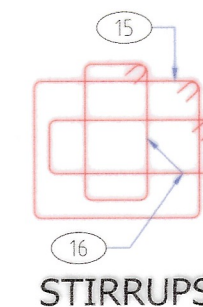
THE DESIGN HAS BEEN
STRUCTURALLY CHECKED BY
RDSO AND FOUND OK.



VIEW K-K
(SCALE 1:50)



VIEW N-N
(REINF. ONLY)
(SCALE 1:25)



STIRRUPS

REINFORCEMENT SCHEDULE			
DESCRIPTION	BAR MKD.	SHAPE OF BAR	DIA OF BAR & SPACING (mm)/ NOS.
FOUNDATION F2	1	800	12 @ 150 C/C
	2	800	12 @ 150 C/C
	3		12 @ 150 C/C
	4		20 @ 150 C/C
	5	800	25 @ 150 C/C
	6	800	16 @ 150 C/C
	9		12 @ 150 C/C (STIRRUPS)
	10		12 @ 150 C/C (STIRRUPS)
	11	300	25 # - 12 Nos.
	12		8 @ 100 C/C
PEDESTAL P1 & P2	13		8 @ 100 C/C
	14	300	16 # - 12 Nos.
PEDESTAL P1A	15		8 @ 100 C/C
	16		8 @ 100 C/C

NOTES-

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R L D A



R D S O

2.4M WIDE DOG LEGGED 1 IN 8 RAMP
FOR FOB & PLATFORM CONNECTION

BHUPENDER
DRAWN BY

JITENDRA
DESIGN BY

VIVEK K
CHECKED BY

GM/DESIGN
CHECKED BY

ED/SD(PD)
APPROVED BY

DIRECTOR
CHECKED BY

EXECUTIVE DIRECTOR
APPROVED BY

FOUNDATION DETAIL
PART 2

SIZE
DRAWING NO.
RDSO/B-10439/13
DATE 26.02.2023