SCHEDULE OF REINFORCEMENT

BAR NO.	REINFORCEMENT DETAILS	BAR SHAPE	REMARKS(IF ANY)
1	ϕ32 @ 125 c/c	110	OUTER BAR
1a	ϕ32 @ 125 c/c	110	OUTER BAR
1b	ϕ32 @ 125 c/c	110	OUTER BAR
2	ϕ25 @ 125 c/c	400	INNER BAR
2a	ϕ10 @ 125 c/c	110	INNER BAR
2b	ϕ20 @ 125 c/c	300	INNER BAR
2c	ϕ25 @ 125 c/c	400	INNER BAR
3	ϕ32 @ 125 c/c		BOTTOM BAR LAYER 2
4	ϕ32 @ 125 c/c	400	
4a	ϕ32 @ 125 c/c		
4b	ϕ32 @ 125 c/c	400 400	
4c	ϕ32 @ 125 c/c		
4d	ϕ32 @ 125 c/c	400 400	
5	ϕ32 @ 125 c/c		TOP BAR
6	ϕ32 @ 100 c/c	400 400	
6a	ϕ32 @ 100 c/c	400 400	
6b	ϕ32 @ 100 c/c		
6c	ϕ32 @ 100 c/c		
6d	ϕ32 @ 100 c/c	400 400	
7	ϕ32 @ 100 c/c	VARIES	
8	ϕ32 @ 100 c/c	400	
8a	ϕ32 @ 100 c/c	400 400	
8b	ϕ32 @ 100 c/c	400 400	
8c	ϕ32 @ 100 c/c	400 400	
8d	ϕ32 @ 100 c/c	400 400	
9	ϕ25 @ 100 c/c	VARIES	
10	ϕ12 @ 125 c/c (LONGITUDINAL) ϕ12 @ 100 c/c (TRANVERSE)		
10a	ϕ12 @ 125 c/c (LONGITUDINAL) ϕ12 @ 100 c/c (TRANVERSE)		
10b	ϕ12 @ 125 c/c (LONGITUDINAL) ϕ12 @ 100 c/c (TRANVERSE)		
10c	ϕ12 @ 125 c/c (LONGITUDINAL) ϕ12 @ 100 c/c (TRANVERSE)		
11	ϕ10 @ 125 c/c (LONGITUDINAL) ϕ10 @ 100 c/c (TRANVERSE)		
12	ϕ32 @ 125 c/c	400 400	
12a	ϕ32 @ 125 c/c	400	
12b	ϕ32 @ 125 c/c	400 400	
12c	ϕ32 @ 125 c/c	400 400	
12d	ϕ32 @ 125 c/c		
13	ϕ32 @ 100 c/c	400 400	

SCHEDULE OF REINFORCEMENT

BAR NO.	REINFORCEMENT DETAILS	BAR SHAPE	REMARKS(IF ANY)
13a	ϕ20 @ 100 c/c	400 400	
13b	ϕ10 @ 100 c/c	400 400	
13c	ϕ32 @ 100 c/c	400 400	
13d	ϕ25 @ 100 c/c	400 400	
14	ϕ25 @ 100 c/c	400 400	
14a	ϕ25 @ 100 c/c	400 400	
14b	ϕ25 @ 100 c/c	400 400	
15	ϕ12 @ 125 c/c (LONGITUDINAL) ϕ12 @ 100 c/c (TRANVERSE)		
15a	ϕ12 @ 125 c/c (LONGITUDINAL) ϕ12 @ 100 c/c (TRANVERSE)		
15b	ϕ12 @ 125 c/c (LONGITUDINAL) ϕ12 @ 100 c/c (TRANVERSE)		
15c	ϕ12 @ 125 c/c (LONGITUDINAL) ϕ12 @ 100 c/c (TRANVERSE)		
16	ϕ32 – 14 NOS.	400 400	BOTTOM BAR LAYER 1
16a	ϕ32 – 14 NOS.	400 400	BOTTOM BAR LAYER 2
16b	ϕ32 – 14 NOS.	400 400	BOTTOM BAR LAYER 3
17	ϕ16 @ 125 c/c		10 LEGGED STIRRUPS
17a	ϕ12 – 1 NOS. EACH SIDE		SIDE FACE
18	ϕ32 – 14 NOS.	300 300	TOP LAYER 1
18a	ϕ32 – 14 NOS.	300 300	TOP LAYER 2
18b	ϕ32 – 14 NOS.	300 300	TOP LAYER 3
19	ϕ32 – 6 NOS.	500 500	BOTTOM LAYER 1
19a	ϕ32 – 6 NOS.	500 500	BOTTOM LAYER 2
19b	ϕ25 – 6 NOS.	500 500	BOTTOM LAYER 3
20	ϕ 32–6 NOS.	500 500	TOP LAYER 1
20a	ϕ 32–6 NOS.	500 500	TOP LAYER 2
20b	ϕ 25–6 NOS.	500 500	TOP LAYER 2
21	ϕ16 @ 150 c/c		4 LEGGED STIRRUPS
21a	ϕ10–1+4 NOS.		
22	ϕ32 @ 125 c/c	300 300	
23	ϕ25 @ 100 c/c	300 300	
24	ϕ32 @ 125 c/c	300 300	
24a	ϕ20 @ 125 c/c	300 300	
25	ϕ32 @ 100 c/c	300 300	
26	ϕ12 @ 125 c/c (LONGITUDINAL) ϕ12 @ 100 c/c (TRANVERSE)		
27	ϕ32 – 11x2 NOS.		
28	ϕ32 – 9x2 NOS.		
29	ϕ12 @ 150 c/c		
29a	ϕ12 @ 150 c/c		
29b	ϕ12 @ 150 c/c		

SCHEDULE OF REINFORCEMENT

BAR NO.	REINFORCEMENT DETAILS	BAR SHAPE	REMARKS(IF ANY)
30	ϕ32 – 11x2 NOS.		
30a	ϕ32 – 9x2 NOS.		
31	ϕ32 – 6x2 NOS.		
32	ϕ12 @ 150 c/c		2 LEGGED STIRRUPS
32a	ϕ12 @ 150 c/c		2 LEGGED STIRRUPS
32b	ϕ12 @ 150 c/c		4 LEGGED STIRRUPS
33	ϕ32–2x7 NOS.	400 400	
34	ϕ10 @ 100 c/c		4 LEGGED STIRRUPS
35	ϕ32–2x6 NOS.	400 400	2 LAYERS
36	ϕ12–2 NOS. EACH SIDE		SIDE FACE

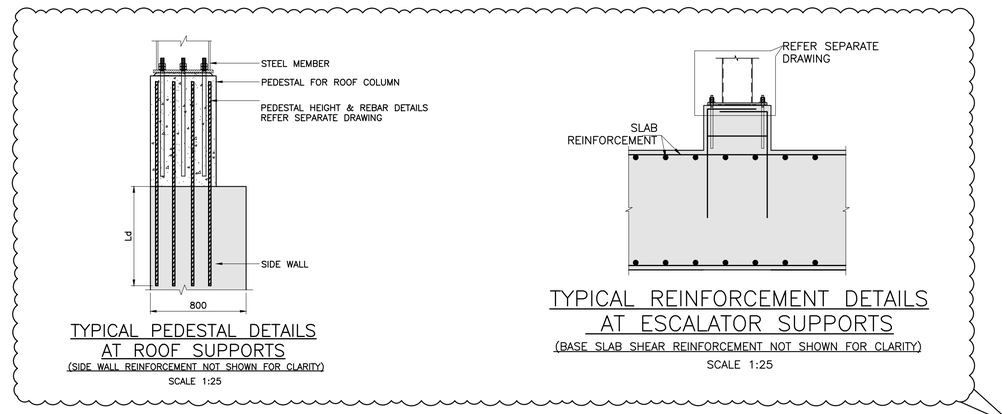
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METER, UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS AND RAIL ALIGNMENT DRAWINGS.
4. SEISMIC ZONE: II
5. IF ANY AMBIGUITY IS FOUND IN DRAWINGS OR AT SITE, THE SAME SHALL BE BROUGHT TO DESIGNER'S/ENGINEER'S NOTICE BEFORE EXECUTION.
6. REINFORCEMENT STEEL SHALL BE HYSD BARS OF GRADE Fe 500 CONFORMING TO IS:1786–2008.
7. GRADE OF CONCRETE SHALL BE AS FOLLOWS:
   - LEVELING COURSE : PCC M20
   - COLUMN : RCC M50
   - BEAM : RCC M50
   - SLAB & SIDE WALL : RCC M50
8. CLEAR COVER TO ALL REINFORCEMENT SHALL BE:
   - COLUMN & BEAM : 50 mm
   - SLAB & SIDE WALL : 50 mm
9. THE NOMINAL MAXIMUM SIZE OF AGGREGATE TO BE USED SHALL BE 20mm.
10. DEVELOPMENT LENGTH SHALL BE AS GIVEN BELOW :

GRADE OF CONCRETE	M50
DEVELOPMENT LENGTH	41ø
LAP LENGTH	58ø

WHERE ø IS THE DIA. OF BAR.

11. ANCHORAGE LENGTH, LAP LENGTH, BAR SPACING'S AND OTHER REINFORCEMENT REQUIREMENT SHALL COMPLY WITH SPECIFICATIONS GIVEN IN IRS–CBC CLAUSE 15.9.6.6.
12. NOT MORE THAN 50% OF THE BAR SHALL BE LAPPED AT ANY LOCATION.
13. REFER SEPARATE DRAWING FOR DRAIN PIPE DETAILS.
14. REFER SEPARATE DRAWING FOR EARTHING BAR DETAILS.



TYPICAL PEDESTAL DETAILS AT ROOF SUPPORTS
(SIDE WALL REINFORCEMENT NOT SHOWN FOR CLARITY)
SCALE 1:25

TYPICAL REINFORCEMENT DETAILS AT ESCALATOR SUPPORTS
(BASE SLAB SHEAR REINFORCEMENT NOT SHOWN FOR CLARITY)
SCALE 1:25

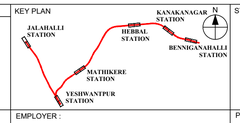
TO BE VERIFIED BY VENDOR

NOTES :

LEGEND :

REFERENCE DRAWINGS :
1. 02077–BSRP–CR2–C–UB–0–10–1306 (SH–1, 2 OF 2) : GENERAL ARRANGEMENT DRAWING OF KANAKANAGAR STATION
2. 02077–BSRP–CR2–C–UB–0–10–1307 (SH–1 TO 4) : DIMENSION DETAIL OF KANAKANAGAR STATION (AT GRADE)
3. 02077–BSRP–CR2–C–UB–0–10–1307 (SH–1 TO 3) : REINFORCEMENT DETAIL OF KANAKANAGAR STATION BOX (AT GRADE)

REFERENCE DOCUMENTS :
1. DOC–BSRP–CR2–AG–DON–BR–10–1587 : DESIGN OF STATION BOX AT CH:8+582 OF KANAKANAGAR STATION

KEY PLAN


STATION BOX KEY PLAN

REVISIONS			
C	05.11.2024	REVISED AS PER GC & PC COMMENTS	
B	19.07.2024	REVISED AS PER GC COMMENTS	
A	19.06.2024	FOR APPROVAL	
REV	DATE	BRIEF DESCRIPTION	

CONTRACTOR :
TRANSPORTATION INFRASTRUCTURE IC
EDRC-SPECIAL BRIDGES
L&T CONSTRUCTION
EDRC-SPECIAL BRIDGES - TIIC

DETAILED DESIGN CONSULTANT (DDC) :
STUP Consultants Pvt. Ltd.
JP & Devi Jambulkeshwar Arcade
#39, 4th Floor,
Race Course Rd., Bengaluru-560052.
Tel.: 080-2280 9560
Email : bangalore@asystem.com
www.asystem.com

PROOF CONSULTANT (PC) :
Indian Institute of Technology Madras
IIT P.O., Chennai
600 036 INDIA

QUALITY ASSURANCE
The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of Contract provisions in respect of design analysis and drawing rests with Design & Build Contractor.

	DDC			PC	Contractor
SIGN	Mrina l Roy	Venka tesha S.S.	Partha Chakra borty	MEHAR PRASAD ANAND LU	
DATE	05.11.2024	05.11.2024	05.11.2024		05.11.2024
NAME	MLR	SSV	PC		KVM
	PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY	ISSUED BY

GENERAL CONSULTANTS

	CHECKED & APPROVED		COUNTER SIGN	
	NAME	SIGN	PROJECT DIRECTOR	
CIVIL:GAD			SIGN	
CIVIL:ALIGNMENT			NAME	
CIVIL:STRUCTURAL			DATE	
CIVIL:GEOTECH				

K RIDE			
	DESIGNATION	SIGN	DATE
CIVIL:GAD			
CIVIL:ALIGNMENT			
CIVIL:STRUCTURAL			
GM/CIVIL/DESIGN			

EMPLOYER :
RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

GENERAL CONSULTANTS :
AECOM egis WSP AECOM-EGIS-WSP

PROJECT : BENGALURU SUBURBAN RAILWAY PROJECT (BSRP)
K-RIDE CORRIDOR - 2

DRAWING TITLE : REINFORCEMENT DETAIL OF KANAKANAGAR STATION BOX

DRAWING NO. : O2077-BSRP-CR2-C-UB-0-10-1309 (SH-3 OF 3)

REVISION	DWG STATUS
C	D

SCALE : AS SHOWN
DATE : 05.11.2024
PRELIMINARY DWG (P), DEFINITIVE DWG (D), CONSTRUCTION DWG (C), AS BUILT DWG (B), SHOP DWG (S), MANUFACTURED DWG (M)
SHEET SIZE - A1

07-11-2024 16:03:48
D:\Mmoss_NOV\42_K-RIDE\BC_Kanakanagar Station\Working\02077-BSRP-CR2-C-UB-0-10-1309_C_SH-1 & 2_05112024.dwg