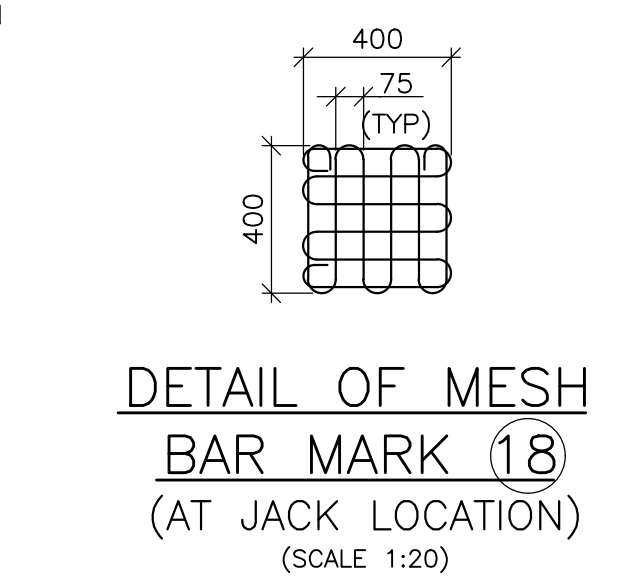
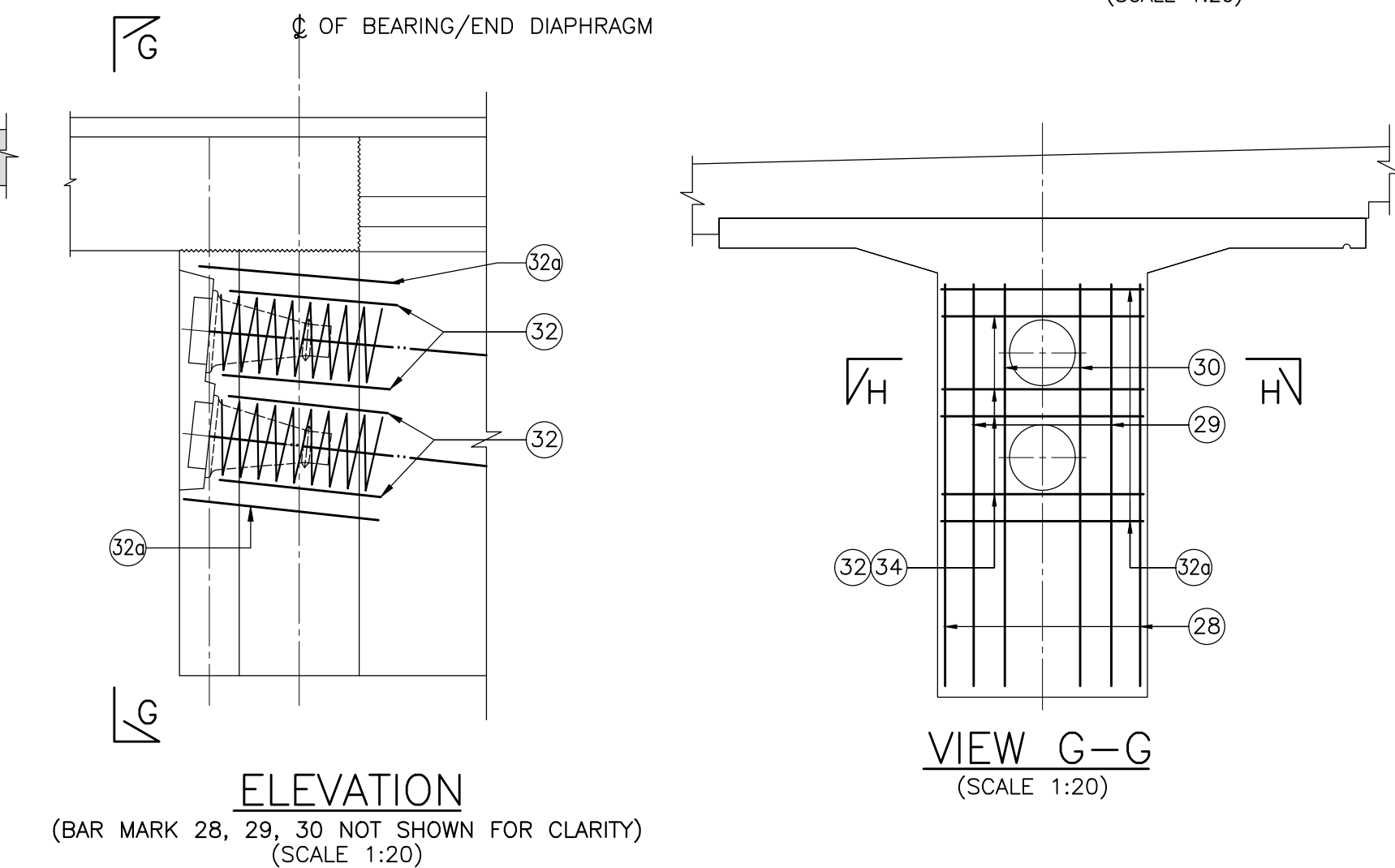


HALF LONGITUDINAL ELEVATION
(SCALE 1:25)



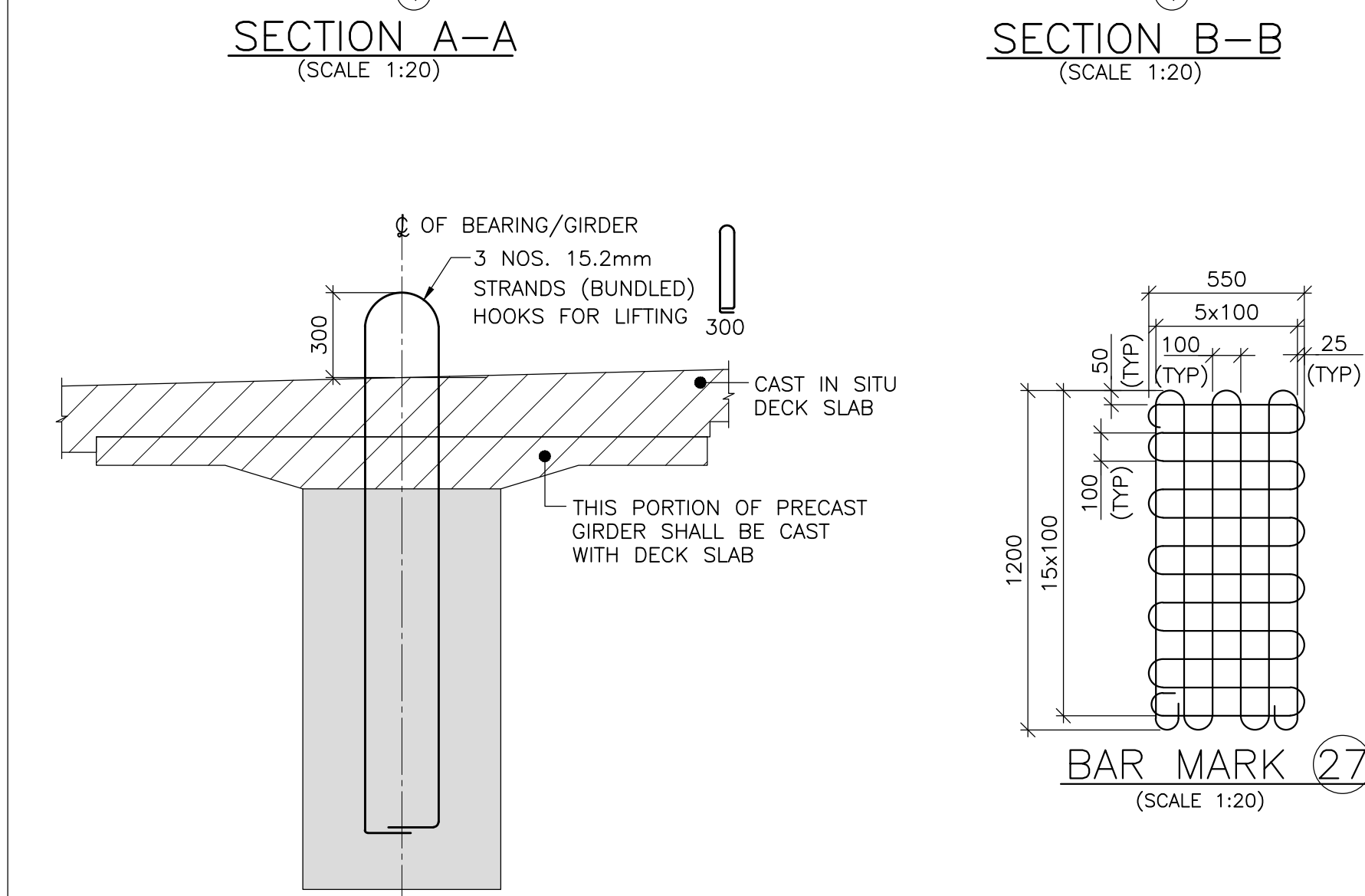
SECTION D-D
(SCALE 1:25)



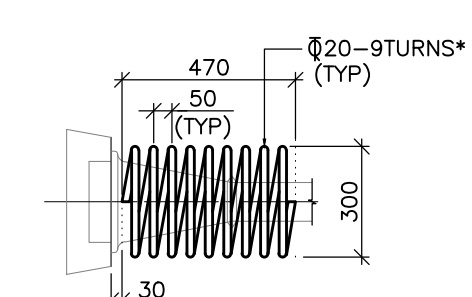
ELEVATION

(BAR MARK 28, 29, 30 NOT SHOWN FOR CLARITY)
(SCALE 1:20)

VIEW G-G
(SCALE 1:20)



BAR MARK (27)



BAR MARK NO. 26
(FOR 19T15.2 ANCHOR)

SPIRAL REINF. AT ANCHOR CONE
(SCALE 1:20)

SECTION H-H
DETAIL AT ANCHORAGE ZONE
(SCALE 1:20)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES, LEVELS ARE IN METRES, UNLESS OTHERWISE NOTED.
2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE 40mm UNLESS OTHERWISE MENTIONED.
4. MINIMUM LAP LENGTH & MAXIMUM PERCENTAGE OF BARS TO BE LAPPED AT ANY SECTION SHALL BE AS MENTIONED IN TABLE BELOW

PERCENTAGE LAP	25	33	50
DEVELOPMENT LENGTH	30d	35d	42d

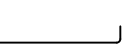
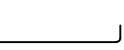

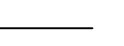

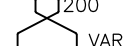
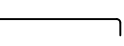
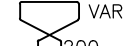
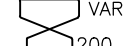
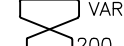




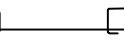
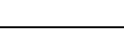
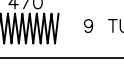



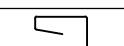

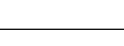
d = DIAMETER OF BAR

THE LAPS SHALL BE STAGGERED BY MINIMUM DISTANCE OF 1.4 TIMES THE LAP LENGTH.

IN CASE OF BUNDLED BARS CONSISTING OF TWO BARS HAVING EQUIVALENT BAR DIAMETER $< 32mm$, BARS MAY BE LAPPED WITHOUT STAGGERING INDIVIDUAL BARS. IN THIS CASE LAP LENGTH SHALL BE CALCULATED BASED ON EQUIVALENT DIAMETER. IN CASE OF BUNDLED BARS HAVING EQUIVALENT BAR DIAMETER $\geq 32mm$, INDIVIDUAL BARS SHALL BE STAGGERED WITH ATLEAST 1.3 TIMES LAP LENGTH FOR THIS CASE DIAMETER OF INDIVIDUAL BAR MAY BE USED TO CALCULATE LAP LENGTH. (EQUIVALENT DIAMETER $= \sqrt[3]{d_1 \times d_2 \times d_3}$)

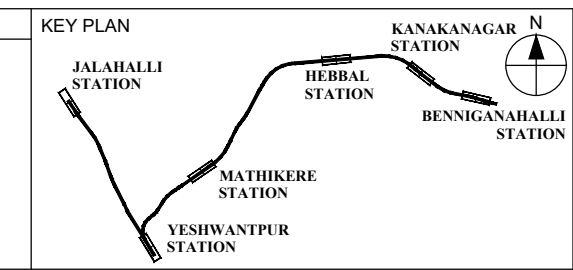
5. REINFORCEMENT WHEREVER NECESSARY SHALL BE LOCALLY BENT OR ADJUSTED TO ENSURE PROPER CONCRETING.
6. IF PRESTRESSING, ANCHORAGE MANUFACTURER'S DETAILS DIFFERS FROM THE PROVIDED, MATTER SHALL BE REFERRED TO CONSULTANT.


SCHEDULE OF REINFORCEMENT

	BAR MARK	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	
PSC GIRDER (PER NO.)	①	Φ 10		10 NOS.	
	②	Φ 10		2x2 NOS.	
	③	Φ 10		2x5 NOS.	
	④	Φ 10		2x6 NOS.	
	⑤	Φ 12		2x6 NOS.	
	⑥	Φ 10		⊙ 150 c/c	
	⑦	Φ 10		14 NOS.	
	⑧	Φ 12		⊙ 150 c/c	
	8a	Φ 12		⊙ 150 c/c	
	8b	Φ 10		⊙ 150 c/c	
	9 TO ⑪	-	-	-	NOT USED
	⑫	Φ 10		⊙ 150 c/c	2 LEGGED
	⑬	Φ 12		⊙ 150 c/c	4 LEGGED
	⑭	Φ 12		⊙ 150 c/c	4 LEGGED
	⑮	Φ 10		2x2 NOS.	2 LEGGED
	⑯	Φ 10		⊙ 150 c/c	
	⑰	Φ 10	MESH	2 NOS.	SEE DETAILS
	⑱	Φ 10	MESH	2 NOS.	SEE DETAILS
	⑲				NOT USED
	⑳	Φ 10		2 NOS.	
㉑ TO ㉕	-	-	-	NOT USED	
ANCHORAGE ZONE (PER GIRDER/EACH SIDE)	㉖	Φ 20		1 NO./ANCHOR	FOR 19 T 15
	㉗				NOT USED
	㉘	Φ 10		6 NOS.	
	㉙	Φ 10		2 NOS.	
	㉚	Φ 16		2 NOS.	
	㉛				NOT USED
	㉜	Φ 16		4 NOS.	
	㉝	Φ 10		2 NOS.	
	㉞				NOT USED
	㉟	Φ 16		4 NOS.	
	㊱				NOT USED
	㊲				NOT USED

REFERENCE DRAWINGS:

- | | | |
|----|---------------------------------------|--|
| 1. | 022077-BSRP-CR2-C-YD-GEN-20-5201..... | CONCRETE DIMENSIONS FOR POST TENSIONED I GIRDER SUPERSTRUCTURE 28m SPAN |
| 2. | 022077-BSRP-CR2-C-YD-GEN-20-5202..... | CABLE PROFILE FOR POST TENSIONED I GIRDER SUPERSTRUCTURE 28m & 28.772m STRAIGHT SPAN |
| 3. | 022077-BSRP-CR2-C-YD-GEN-20-5204..... | REINFORCEMENT DETAILS OF DECK SLAB, DIAPHRAGM AND CRASH BARRIER FOR POST TENSIONED I GIRDER SUPERSTRUCTURE 28.772m, 28m, 22m, 20.75m, 17.75m & 14m STRAIGHT SPAN |



EMPLOYER :	 RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED
GENERAL CONSULTANTS :	





STATION BOX KEY PLAN

PROJECT :	BENGALURU SUBURBAN RAILWAY PROJECT (BSRP) K-RIDE CORRIDOR - 2
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DRAWING TITLE : REINFORCEMENT DETAILS OF GIRDER FOR POST TENSIONED I GIRDER
SUPERSTRUCTURE 28m & 28.772m STRAIGHT SPAN

DRAWING NO.: O22077-BSRP-CR2-C-VD-GEN-20-5203

SCALE : AS SHOWN		DATE : 25.06.2024	B	D
PRELIMINARY DWG (P), DEFINITIVE DWG (D), CONSTRUCTION DWG (C), AS BUILT DWG (B), SHOP DWG (S), MANUFACTURED DWG (M)				SHEET SIZE -

NOTES :				LEGEND :				REFERENCE DRAWINGS :				REFERENCE DOCUMENTS : DOC –BSRP –CR2 –EV–DGN–GEN–20 –5201							
REV	DATE	BRIEF DESCRIPTION	CONTRACTOR :	QUALITY ASSURANCE				GENERAL CONSULTANTS				COUNTER SIGN							
				TRANSPORTATION INFRASTRUCTURE IC EDRC-SPECIAL BRIDGES				The responsibility of contract, 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				CHECKED & APPROVED		PROJECT DIRECTOR		K RIDE			
								DDC		PC	Contractor	CIVIL/GAD	NAME	SIGN	SIGN		DESIGNATION	SIGN	
								SIGN				CIVIL/ALIGNMENT				CIVIL/GAD			
								DATE	29.01.2025	29.01.2025	29.01.2025	29.01.2025				NAME			
								NAME	SSP	BYM	PC	JSG				DATE			
								PREPARED BY		CHECKED BY	APPROVED BY	APPROVED BY	ISSUED BY				CIVIL/STRUCTURAL	GM/CIVIL/DESIGN	
B	29.01.25	REVISED AS PER GC'S LATTER NO. 2557 & 2576		L&T CONSTRUCTION EDRC-SPECIAL BRIDGES - ITC								CIVIL/GEOTECH							
A	25.06.24	FOR APPROVAL																	
				DETAILED DESIGN CONSULTANT (DDC)				PROOF CONSULTANT (PC):											
								STUP Consultants Pvt. Ltd. 3/12, New Ambur Road, Ambur 600 055, Chennai 98404 22222 Email: bangalore@stupconsultants.com www.stupconsultants.com								Indian Institute of Technology Madras IIT P.O., Chennai 600 036 INDIA			