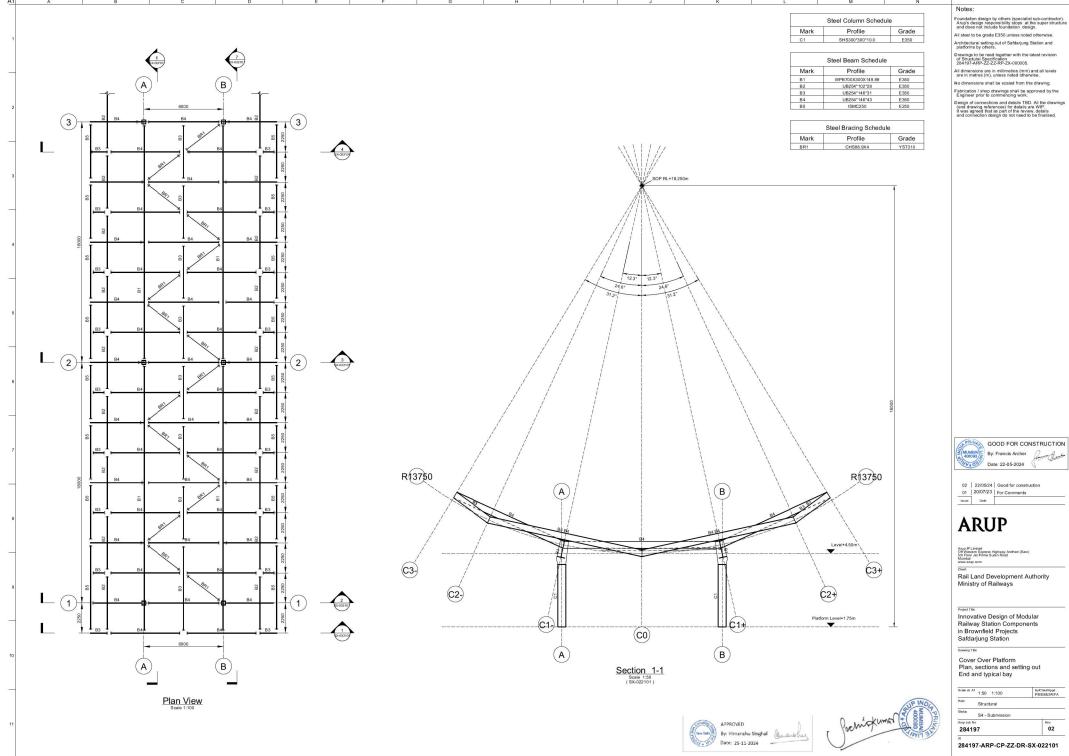




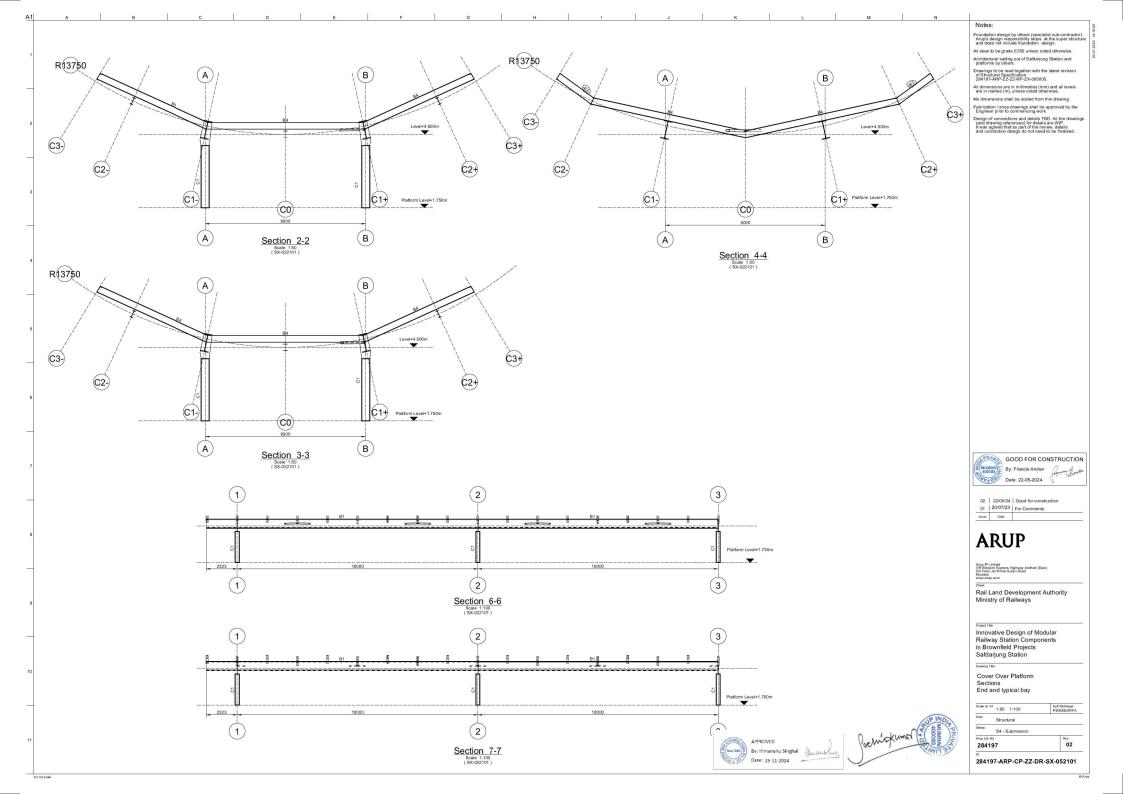
Date: 25-11-2024

Scale at A1 NTS Structural S4 - Submission 284197 02

284197-ARP-CP-ZZ-DR-SX-002101



28419			0:	2
Arup Job No			Rev	
Status	S4 - Subm	nission	w.	
Role	Structural			
Scale at A1	1:50 1:10	00	By/Chkd/App PB/EB&SR	xi /FA



Middle Column End Column

	Verticla Load (Z-direction)	
	End column	Middle column
Dead Loads	55	75
Super-Imposed Dead Loads	50	70
Imposed Loads	70	100
Wind Downward	55	75
Wind Suction	-95	-135
Wind Combination	+/-125	+/-175
Thermal load +	0	0
Thermal load -	0	0
Earthquake X	+/-5	+/-10
Earthquake Y	+/-5	+/-5
Earthquake Z	+/-5	+/-5

	Horizontal Load (Y-direction)	
	End column	Middle column
Dead Loads	5	5
Super-Imposed Dead Loads	5	5
Imposed Loads	5	5
Wind Downward	5	5
Wind Suction	5	5
Wind Combination	5	5
Thermal load +	15	15
Thermal load -	15	15
Earthquake X	10	10
Earthquake Y	30	30
Earthquake Z	5	5

	Horizontal Load (X-direction)	
	End column	Middle column
Dead Loads	5	5
Super-Imposed Dead Loads	5	5
Imposed Loads	5	5
Wind Downward	5	5
Wind Suction	10	10
Wind Combination	25	35
Thermal load +	5	5
Thermal load -	5	5
Earthquake X	15	25
Earthquake Y	5	5
Earthquake Z	5	5

	Moment Mxx	
	End column	Middle column
Dead Loads	5	5
Super-Imposed Dead Loads	5	5
Imposed Loads	5	5
Wind Downward	5	5
Wind Suction	10	10
Wind Combination	10	5
Thermal load +	55	50
Thermal load -	50	45
Earthquake X	30	30
Earthquake Y	110	110
Earthquake Z	5	5

	Moment Myy	
	End column	Middle column
Dead Loads	10	10
Super-Imposed Dead Loads	10	5
Imposed Loads	10	10
Wind Downward	15	15
Wind Suction	20	20
Wind Combination	95	115
Thermal load +	15	15
Thermal load -	10	15
Earthquake X	50	90
Earthquake Y	10	10
Earthquake Z	5	5

	Moment Mzz	
	End column	Middle column
Dead Loads	5	5
Super-Imposed Dead Loads	5	5
Imposed Loads	5	5
Wind Downward	5	5
Wind Suction	5	5
Wind Combination	5	5
Thermal load +	5	5
Thermal load -	5	5
Earthquake X	5	5
Earthquake Y	5	10
Earthquake Z	0	0

- All steel to be grade E350 unless noted otherwise

Architectural setting out of Safdarjung Station and platforms by others:

Drawings to be read together with the latest revision of Structural Specification 284197-ARP-ZZ-ZZ-RP-ZX-000005.

All dimensions are in millimetres (mm) and all levels are in metres (m), unless noted otherwise.

- No dimensions shall be scaled from this drawing Fabrication / shop drawings shall be approved by the Engineer prior to commencing work.

Design of connections and details TBD. All the draw (and drawing references) for details are WIP. It was agreed that as part of the review, details and connection design do not need to be finalised.

Dead Loads	5	o o	
Loads	5	5	
vnward	5	5	
ıction	10	10	
bination	10	5	
load +	55	50	
load -	50	45	ř
ake X	30	30	APPROVED By: Himanshu Sing
ake Y	110	110	Date: 25-11-2024
-1 7	-	-	



GOOD FOR CONSTRUCTION

02 | 22/05/24 | Good for construction 01 | 20/07/23 | For Comments

ARUP

Rail Land Development Authority Ministry of Railways

Innovative Design of Modular Railway Station Components in Brownfield Projects Safdarjung Station

Cover Over Platform

Scale at A1	NTS	By/Chkd/Appd EB/FA/FA
Role	Structural	,
Status	S4 - Submission	
Arup Job No	,	Rev
28419	97	02

Notes:

- 1. Horizontal action are NOT sign sensitive. They are always both positive and negative in direction.
- 2. Vertical action are sign sensitive. Negative indicates uplift. Earthquake reactions noted can act both as pressure or uplift.
- 3. All loads in kN. All loads are NOT factored.
- 4. Loads are given at the platform level of +1.75m
- 5. The moments apply in both directions