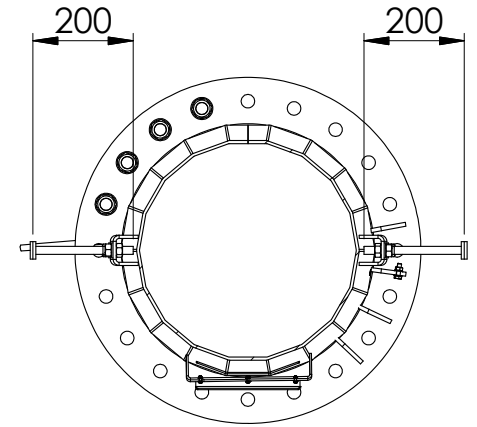
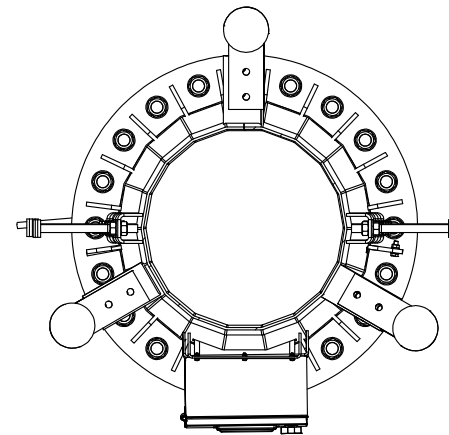


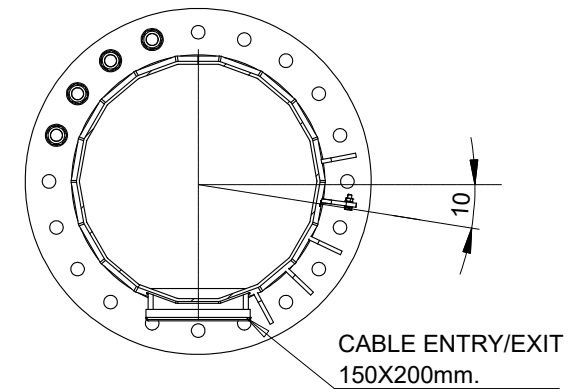
SECTION 5-5
SCALE 1 : 20



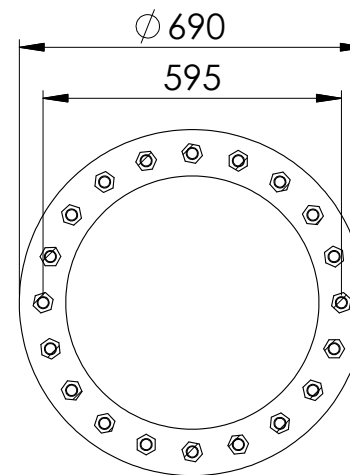
SECTION 3-3
SCALE 1 : 15



SECTION 4-4
SCALE 1 : 15



SECTION 2-2
SCALE 1 : 15



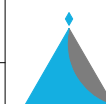
SECTION 1-1
SCALE 1 : 15



Design Standard : IS 875 (Part 3)
Wind Speed : 150 KMPH
Operational Wind Speed : 105 KMPH
Structure : Octagonal
Twist & Sway limit : < 1.0 degree at 105 KMPH
Loading : 6 GSM Antenna
6 RRU
Street Light : 3 x 100W LED with LDR
All part will Hot Dip Galvanized as per Standard ISO 1461
Fail Arrest safety system will be included along with all monopoles.

NOTE:-
1.-ALL DIMENSIONS ARE IN MM.
EXPECTED OTHERWISE SHOWN.
2.-POLE SHAFT PROFILE WITH 18 SIDED.

	NAME	SIGNATURE	DATE	CHANGES	NAME	SIGNATURE	DATE	NO.	TOLERANCE:	SCALE:1:100	DRW. NO:	DRW. NAME:
DRAWN BY:	PANKAJ	PANKAJ	02.12.2025								ICGA10634-20M	20MTR SLIP JOINT MONOPOLE
DESIGNED BY:	SUJITH	SUJITH	02.12.2025						ISO 2768-m		REV: 0	PROJECT NAME:
CHECKED BY:	SUJITH	SUJITH	02.12.2025								SHEET NO: 1 OF 1	BHUTAN TELECOM LTD. 2026
											SIZE: A3	



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Gurugram,Haryana,INDIA-122050
TEL : +91 124 4120600/01/02

20 M CIVIL FOUNDATION DRAWING

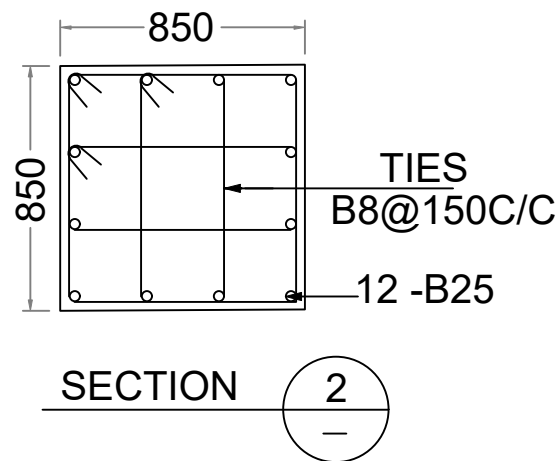
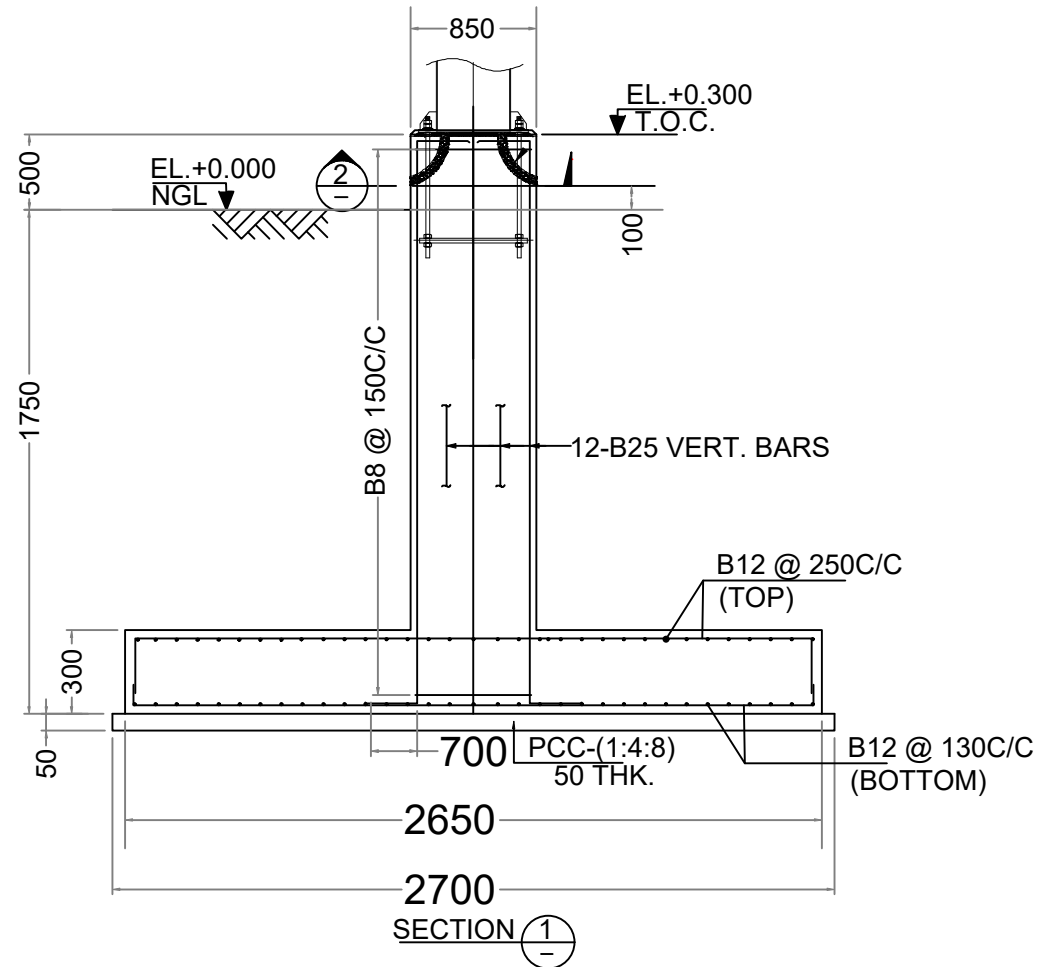
Assumed parameters considered in in foundation design:

Allowable net safe bearing capacity (NSBC) > 10 T/m
Ground level water : Nil
Depth of foundation : 1.75 M
Material > 1600kg / m

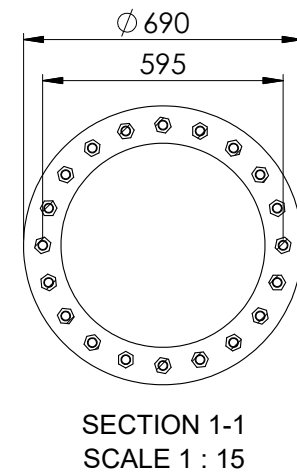
Frustum angle > 10 deg
Density of back filling

Notes of foundation drawing:

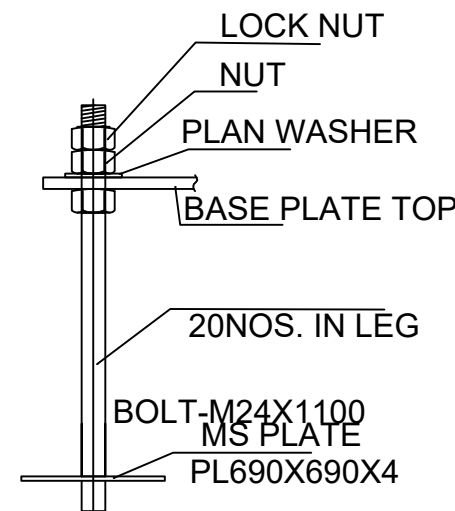
1. This is a generic foundation drawing.
2. Before commencement of construction work using these designs, the owner/client/civil contractor shall carry out detailed soil investigation of every site. further, the soil investigation report shall be reviewed by a consultant and certification shall be obtained to ensure conformity between assumed parameters and soils report values before start construction.
3. The foundation design is applicable only when the assumed SBC is available at (or) within the 1.75m depth from E.G.L.
4. In the case of required SBC is not available at/ beyond 1.75m depth, this foundation design does not stand applicable.
5. This foundation design shall not be used in case of organic silt, organic clay or peat layers are found upto depth "2b" from founding level during soil investigation (where b=pad/raft width).
6. This foundation design shall not be adopted at sites where soil is subjected to ground improvement / liquefaction. in this case special foundation shall be done.
7. In case ground water table is not found within the foundation depth. This foundation design not stand applicable.



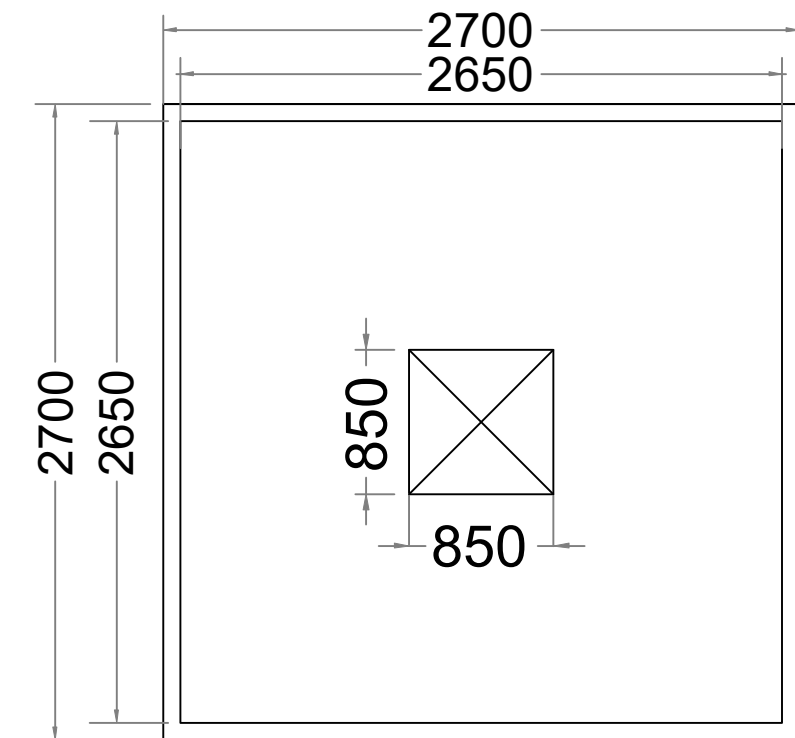
COLUMN 850X850



BASE PLATE 690X690



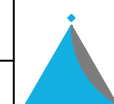
ANCHOR BOLT



FOUNDATION

NOTE:-
ALL DIMENSIONS ARE IN MM

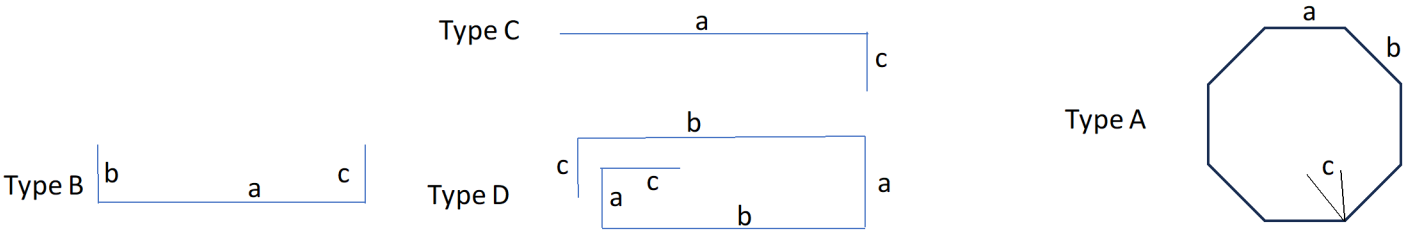
NAME	SIGNATURE	DATE	CHANGES	NAME	SIGNATURE	DATE	NO.	TOLERANCE:	SCALE :	DRW. NO:	DRW. NAME:
DRAWN BY:	PANKAJ	PANKAJ	02.12.2025					X ±	1:1	ICGA10634-20M	20M SLIP JOINT MONOPOLE
DESIGNED BY:	SUJITH	SUJITH	02.12.2025					X.X ±		REV: 00	PROJECT NAME:
CHECKED BY:	SUJITH	SUJITH	02.12.2025					X.XX ±		SHEET NO: 1 OF 2	BHUTAN TELECOM LTD. 2026
								X.XXX ±		SIZE: A3	
								ANGLES ±			



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20 M CIVIL FOUNDATION DRAWING

ICGA10798 MONOPOLE-20M Bar Bending Schedule



Item	Position	Type	Dia. Of Rebar	Size	Size	Size	Length	Qty in Nos both ways or total	Unit wt	Total Weight of
				a	b	c				
			(mm)	(mm)	(mm)	(mm)	(mm)		(kg/m)	(kg)
Raft Slab	Top	B	B12	2550	150	150	2850	21	0.89	53.27
	Bottom	B	B12	2550	150	150	2850	40	0.89	101.46
Column	Main	C	B25	2150	0	700	2850	12	3.86	132.01
	Ties	D	B8	750	750	80	3160	15	0.40	18.96
		D	B8	750	275	80	2210	30	0.40	26.52
		A	B8	255	345	80	2560	5	0.40	5.12
		Total								350.53

* Chairs Shall be Provided whenever required

- Notes :
- 1. Dimensions of Bars are along the Center Lines.
 - 3. Splicing of Bars should not be more than 50%. Length of splice as per Standards.

FOUNDATION QUANTITY

ITEM	POLE	UNITS
CONCRETE	3.52	CUM
PCC	0.36	CUM
STEEL	350.53	KG
EXCAVATION	13.61	CUM



NOTE:-
ALL DIMENSIONS ARE IN MM

	NAME	SIGNATURE	DATE	CHANGES	NAME	SIGNATURE	DATE	NO:	TOLERANCE: X ± X.X ± X.XX ± X.XXX ± ANGLES ±	SCALE : 	DRW. NO: ICGA10634-20M	DRW. NAME: 20M SLIP JOINT MONOPOLE
DRAWN BY:	PANKAJ	PANKAJ	02.12.2025								REV: 00	SHEET NO: 2 OF 2
DESIGNED BY:	SUJITH	SUJITH	02.12.2025								SIZE: A3	PROJECT NAME: BHUTAN TELECOM LTD. 2026
CHECKED BY:	SUJITH	SUJITH	02.12.2025									



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