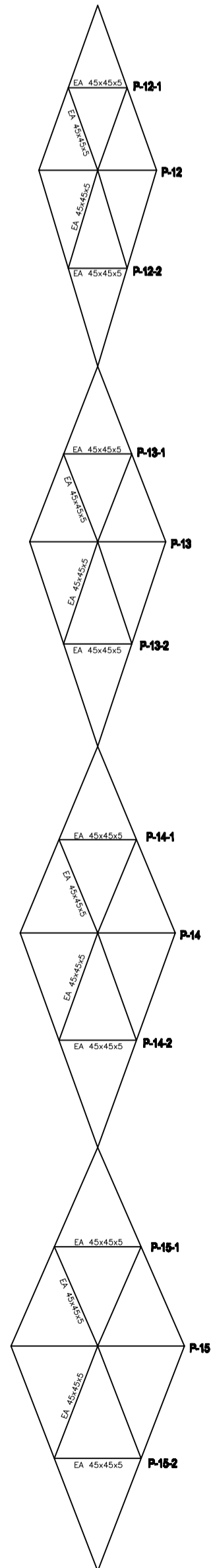
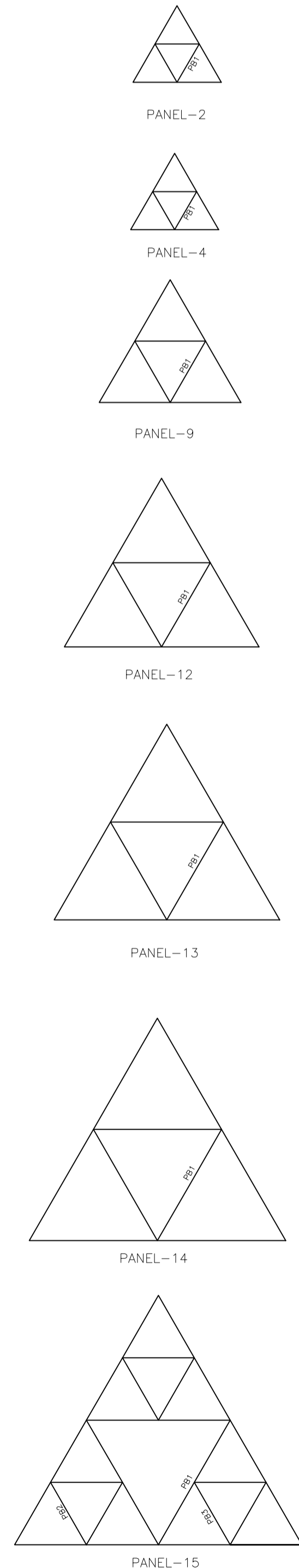
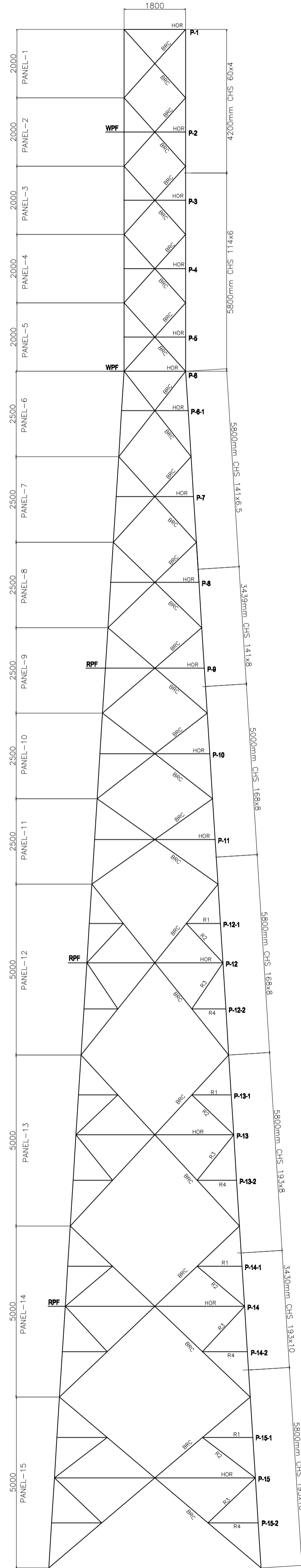


PANEL NO:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RED															
R1	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5
R2	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5
R3	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5
R4	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5
HOR	EA 63x63x6	EA 50x50x5	EA 63x63x6	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5
PB1	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5	EA 50x50x5
PB2	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5
PB3	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5	EA 45x45x5
BRC	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8	EA 80x80x8
LEG	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10	CHS 193x10
	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8	10-M30-G8.8



NOTE :

TOWER DESIGN CODE

Wind loading computed in accordance with:

- * TIA-222-G ; Structural Standards for Steel Antenna Towers and Antenna Supporting Structures.
- Member capacities checked against the requirements of:
- * TIA-222-G ; Structural Standards for Steel Antenna Towers and Antenna Supporting Structures.

- 1.All dimensions are in MM. unless otherwise indicated.
- 2.Design wind speed Servival 50 m/s 3 second gust.
- 3.Maximum calculated rotation under Operational wind speed 40m/s Operational Wind Speed Maximum tilt and twist less than 0.5 Deg
- 4.Steel Tubes that are used in tower structure as Leg members are of Normal (N) yield strength (Q235) (fy-235 MPa)
- 5.Steel Angles that are used in tower structure as Internal members are of Normal (N) yield strength (Q235) (fy-235 MPa)
6. All nuts and bolts are G 8.8
7. All Leg Joint pates are of Normal (N) yield strength (Q235) (fy-235 MPa)
8. Wind shield area 15sqm

MATERIAL STRENGTH :


Sect. Size.	fy	Bolts
Internal Members		
EA 45x45x5	235	1-M14
EA 50x50x5	235	1-M16
EA 63x63x6	235	1-M16
EA 75x75x6	235	1-M20
EA 80x80x8	235	2-M16
EA 90x90x8	235	2-M20
Leg Members		
CHS 193X10	235	
CHS 193X8	235	
CHS 168X8	235	
CHS 141X8	235	
CHS 141X6.5	235	
CHS 114X6	235	
CHS 60X4	235	

LEGEND :

Member class	
LEG	LEG MEMBER
BRC	CROSS BRACING
PBR	PLAN BRACING
HOR	PLAN PERIMETER MEMBER
RED	REDUNDANT/HIP STAY
HIP	HIP BRACING
HPB	HIP PLAN BRACING

Maximum Reaction at Each tower leg (Ultimate) :

	Diagonal Wind Case				
	Fx.(KN)	Fy.(KN)	Fz.(KN)	Mx.(KNm)	My.(KNm)
Max. Ten.(KN)	65.617	113.650	1122.749	5.158	2.978
Max Comp. (KN)	79.159	137.105	1380.697	6.923	3.997

REV	DESCRIPTION	DATE	BY	CHKD/APPD
 <p>Reb Mech (Pvt) Ltd. 168/10, Nawala Road, (Siri Jayasudara Mawatha) Nugegoda, Sri Lanka. e-mail : info@rebmech.com Tel : 00-94-114-408900 Fax : 00-94-4402238 , 00-94-112-877369</p>				
PROJECT				
45M - 3Legged Self Supporting Tower 15 SQM				
CLIENT				
DRAWN BY:		DESIGNED:		
DATE :		DRAWING NUMBER		
U-COM-LEO/TD 45-15SQM/1[0]				