

WIND LOADING CRITERIA											
3-SECOND GUST WIND SPEEDS AT 33 FT ABOVE GRADE (MPH) BASED ON DESIRED RISK CATEGORY TOPOGRAPHIC CATEGORY 1, EXPOSURE CATEGORY C, Z _S = 0 FT. ANSI/TIA-222-H											
ULTIMATE WIND SPI ASCE 7-16	ED 85	90	95	100	105	110	115	120	130	140	150
MAX EPA (SQ FT)	250	250	250	250	225	200	173	153	92	40	N/A
(12) 7/8 INCH LINES ON A WAVEGUIDE LADDER, (1) 3/8 INCH SAFETY CABLE MAXIMUM APPURTENANCE WEIGHT: 3,000 LBS WITHOUT ICE AND 6,000 LBS WITH ICE TABULATED EPA VALUES INCREASED 100% FOR ICE LOADING CONDITION TABULATED EPA VALUES LIMITED TO A MAXIMUM OF 250 SQ FT k_a =1.0 FOR ALL TABULATED EPA											
_	LOADIN RITERIA	-	EARTHQUAKE LOADING CRITERIA								
MAXIMUM RADIAL GLAZE ICE THICKNESS CONCURRENT WITH 40 MPH 3-SECOND GUST WIND SPEED 33 FT ABOVE GRADE TOPOGRAPHIC CATEGORY 1 EXPOSURE CATEGORY C ANSI/TIA-222-H					$\begin{split} S_S &= SPECTRAL RESPONSE ACCELERATION \\ PARAMETER AT SHORT PERIODS \\ S_1 &= SPECTRAL RESPONSE ACCELERATION \\ PARAMETER AT 1 SECOND PERIOD \\ T_L &= LONG PERIOD TRANSITION PERIOD \\ SITE CLASS D \\ ANSI/TIA-222-H \end{split}$						
RISK CATEGORY		SCE 7-1 0-YR M			RISK	CATEG	ORY	MAX S _S		AX S ₁	TL
I		N/A*				I		N/A*	N/	/A*	N/A*
п		2.00				II		2.50	1.	.00	6.00
III	1.73				III		2.00	0.	.80	6.00	
IV		1.63				IV		1.67	0.	.67	6.00

*ICE AND EARTHQUAKE LOADING NEED NOT BE CONSIDERED FOR RISK CATEGORY I STRUCTURES.

MAXIMUM FACTORED REACTIONS					
TOTAL O.T.M. (FT-KIPS)	2902.76				
TOTAL SHEAR (KIPS)	35.6				
TOTAL VERTICAL MAX. (KIPS)	75.58				
TOTAL VERTICAL MIN. (KIPS)	17.03				
MAX COMPRESSION/LEG (KIPS)	184.41				
MAX TENSION/LEG (KIPS)	157.84				
MAX SHEAR/LEG (KIPS)	20.89				

GENERAL NOTES

- 1. THE SUITABILITY OF THE TABULATED TOWER DESIGN CRITE MUST BE VERIFIED PRIOR TO INSTALLATION BY THE PURCHAS DATA AND THE INTENDED USE OF THE STRUCTURE.
- 2. ALL USERS ARE SOLELY RESPONSIBLE FOR THE INSTALLATION INSPECTION, CONDITION ASSESSMENTS AND OTHER WORK WITH ALL APPLICABLE INDUSTRY, LOCAL, STATE AND FEDER
- 3. THE TABULATED ALLOWABLE EFFECTIVE PROJECTED AREAS OF THE PROJECTED AREAS OF ALL ANTENNAS, MOUNTS, AND APPROPRIATE DRAG FACTORS. THE ALLOWABLE PROJECTED PLACED SYMMETRICALLY ON THE STRUCTURE. LOWER EPA V ARRANGEMENTS.
- 4. THE FOLLOWING MATERIAL SPECIFICATIONS APPLY TO THE STRUCTURAL STEEL: 50 KSI MINIMUM YIELD STRENGTI FASTENERS: 120 KSI MINIMUM TENSILE STRENGTH ANCHOR RODS: 125 KSI MINIMUM TENSILE STRENGTH GALVANIZING: PER ANSI/TIA-222-H
- 5. TOWER FABRICATION SHALL BE BY ROHN PRODUCTS, LLC, CE
- 6. THE TOWER DESIGN ASSUMES INSTALLATION ON A PROPERL TOWER DESIGN MAY REQUIRE MODIFICATIONS FOR INSTALL SLOPING GRADE OR FOR TOWERS SUPPORTED ON OTHER ST
- 7. INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI/TIA-22 INSPECTION REQUIREMENTS SHALL BE DETERMINED AND PER BASED ON THE LOCATION AND USE OF THE STRUCTURE.
- 8. SAFETY, STRENGTH AND STABILITY REQUIREMENTS FOR THE AND MAINTENANCE ACTIVITIES SHALL BE IN ACCORDANCE W FOR SAFETY PRACTICES WITH THE CONSTRUCTION, DEMOLIT MAINTENANCE OF COMMUNICATION STRUCTURES" AND ALL STATE AND FEDERAL REGULATIONS AND STANDARDS.
- 9. ALL RIGGING, SAFETY EQUIPMENT AND TEMPORARY SUPPOR AND MAINTENANCE SHALL BE DETERMINED, FURNISHED AND BASED ON THE MEANS AND METHODS CHOSEN BY THE CONT AND MAINTENANCE ACTIVITIES SHALL BE PERFORMED BY CC TRAINED PERSONNEL.
- 10. FIELD CONNECTIONS SHALL BE BOLTED . NO FIELD WELDING 11. UNLESS OTHERWISE SPECIFIED, BOLTS SHALL BE TIGHTENED WITH A NUT-LOCKING DEVICE IN ACCORDANCE WITH ANSI/
- INSTALLED BOLT TENSION OR TORQUE VALUES REQUIRED. 12. STEP BOLTS SHALL BE INSTALLED AS A CLIMBING FACILITY I ANSI/TIA-222-H FOR CLIMBING THE ENTIRE HEIGHT OF THE RESTRICTED TO COMPETENT CLIMBERS ONLY.
- 13. A SAFETY CLIMB SYSTEM SHALL BE USED IN ACCORDANCE W CLIMBING FACILITIES, INCLUDING SAFETY CLIMB SYSTEMS, EACH USE.
- 14. PURCHASER SHALL VERIFY THAT THE INSTALLATION IS IN CO APPLICABLE INDUSTRY, LOCAL, STATE, AND FEDERAL REQUIF OBSTRUCTION MARKING.
- 15. MAINTENANCE AND CONDITION ASSESSMENTS SHALL BE PER STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-H.
- 16. FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE TABUL THE CONDITIONS EXISTING AT THE SITE.
- 17. THE PROPER DEVELOPMENT OF ANCHOR RODS FOR THE TOW FOUNDATION ENGINEER.

SECTION MAIN MEMBER SC						
SECTION	LEGS	DIAGONALS				
RLS04	HSS 2.875 X 0.203	L1 3/4 X 1 3/4 X 1/8				
RLT04	HSS 2.875 X 0.203	L1 3/4 X 1 3/4 X 1/8				
RLT06	HSS 2.875 X 0.276	L1 3/4 X 1 3/4 X 1/8				
RLT08	HSS 3.500 X 0.300	L1 3/4 X 1 3/4 X 1/8				
RLT10	HSS 3.500 X 0.300	L1 3/4 X 1 3/4 X 1/8				
RLT12	HSS 4.000 X 0.318	L2 1/2 X 2 1/2 X 3/16				
RLT14	HSS 4.500 X 0.337	L2 1/2 X 2 1/2 X 3/16				
RLT16	HSS 4.500 X 0.337	L3 X 3 X 3/16				
RLT18	HSS 5.563 X 0.375	L3 1/2 X 3 1/2 X 1/4				
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170 - 11 TOWER STEEL HEIGHT

	FILE NO. RTL-CATALOG				
RIA FOR A SPECIFIC APPLICATION		REVISI			
SER BASED ON SITE-SPECIFIC	REV.	DESCRIPTION	I [OWN (CHK APP
N, USE, MAINTENANCE, FO BE PERFORMED IN COMPLIANCE AL REQUIREMENTS. (EPA) REPRESENT THE SUMMATION APPURTENANCES MULTIPLIED BY AREAS ARE ASSUMED TO BE (ALUES MAY APPLY FOR OTHER EPA					
Tower Design: H					
ERTIFIED AISC FABRICATOR. Y DRAINED LEVEL SITE. THE ATIONS ON SITES WITH A RUCTURES. 2-H. INITIAL CONSTRUCTION RFORMED BY THE PURCHASER					
STRUCTURE FOR CONSTRUCTION /ITH ANSI/ASSE A10.48, "CRITERIA TION, MODIFICATION AND APPLICABLE INDUSTRY, LOCAL,					
TS REQUIRED FOR CONSTRUCTION DINSTALLED BY THE CONTRACTOR RACTOR. ALL CONSTRUCTION DMPETENT, QUALIFIED AND					
G SHALL BE ALLOWED. D TO A "SNUG TIGHT" CONDITION TA-222-H WITH NO MINIMUM					
N ACCORDANCE WITH STRUCTURE. CLIMBING SHALL BE					
ITH ANSI/TIA-222-H. ALL SHALL BE INSPECTED PRIOR TO					
DNFORMANCE WITH ALL REMENTS FOR GROUNDING AND					
FORMED OVER THE LIFE OF THE					
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VER SHALL BE VERIFIED BY THE					
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HEDULE		K	HN		
NOMINAL WEIGHT (LBS)			RODUCTS LL	С	
410		PO BO PEORIA, IL	X 5999 61601-5999)	
810		TOLL FREE 8			
1000		VING IS THE PROPE , COPIED OR TRACE OUR WRITTI			
1290			TL170H		
1370		170 FT HE	AVY SERI		
2070	STA	NDARD RTL	TOWER A-222-H	DESIC	SN
2410	DWN:	CHK'D:		DATE:	
2830	C	EJ			5/2022
3670	ENG'R:	SWG	SHEET #: 1	OF 1	
	PRJ. ENG'R	:	PRJ. MAN	G'R:	
	DRAWING	NO: RTL170H	-D		REV: 0
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