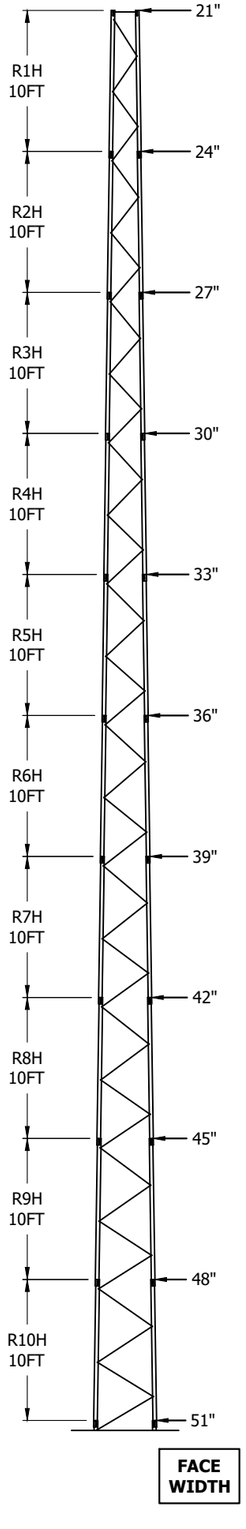


RSL TOWER DESIGN LOADING ACCORDING TO ANSI/TIA-222-I

3-SECOND GUST WIND SPEEDS AT 33 FT ABOVE GRADE (MPH)
TOPOGRAPHIC CATEGORY: 1
EXPOSURE CATEGORY: B & C
DESIGN ICE THICKNESS: 0.50 IN
DESIGN ICE WIND SPEED: 40 MPH
GROUND ELEVATION, Z_S: 0 FT

TOWER HEIGHT (FT)	SECTIONS	TOWER KIT P/N	ALLOWABLE EFFECTIVE PROJECTED AREA, EPA (FT^2) 3-SECOND GUST WIND SPEED WITHOUT ICE (MPH)													
			EXPOSURE B							EXPOSURE C						
			90	100	110	115	120	130	140	90	100	110	115	120	130	140
100	R1H - R10H	RSL100H10	61	39	23	16	11	1	-	32	15	3	-	-	-	-
90	R1H - R9H	RSL90H19	66	45	31	25	20	11	3	39	24	13	8	3	-	-
	R2H - R10H	RSL90H20	80	56	38	30	24	13	4	48	29	15	10	5	-	-
80	R1H - R8H	RSL80H18	69	48	33	27	22	13	6	41	26	15	10	6	-	-
	R2H - R9H	RSL80H29	80	66	49	41	35	24	15	58	40	27	20	15	6	-
	R3H - R10H	RSL80H30	80	77	56	47	40	27	17	67	46	30	23	18	8	1
70	R1H - R7H	RSL70H17	76	55	39	32	27	17	10	46	31	19	14	10	3	-
	R2H - R8H	RSL70H28	80	70	52	45	38	28	19	61	42	29	24	19	11	5
	R3H - R9H	RSL70H39	80	80	73	64	55	41	30	80	61	44	37	31	20	12
	R4H - R10H	RSL70H40	80	80	79	69	60	46	34	80	66	48	41	34	23	14
60	R1H - R6H	RSL60H16	80	78	59	51	45	33	24	68	49	35	29	24	16	9
	R4H - R9H	RSL60H49	80	80	80	80	80	63	50	80	80	66	58	50	37	27
	R5H - R10H	RSL60H50	80	80	80	80	80	66	54	80	80	71	62	54	41	30
50	R1H - R5H	RSL50H15	80	80	79	70	62	49	39	80	66	50	44	38	29	21
	R5H - R9H	RSL50H59	80	80	80	80	80	80	77	80	80	80	80	76	60	48
	R6H - R10H	RSL50H60	80	80	80	80	80	80	80	80	80	80	80	80	65	52
40	R1H - R4H	RSL40H14	80	80	80	80	80	71	58	80	80	71	63	57	45	36
	R7H - R10H	RSL40H70	80	80	80	80	80	80	80	80	80	80	80	80	80	80
30	R1H - R3H	RSL30H13	80	80	80	80	80	80	80	80	80	80	80	80	70	58
	R8H - R10H	RSL30H80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
20	R1H - R2H	RSL20H12	80	80	80	80	80	80	80	80	80	80	80	80	80	80
	R9H - R10H	RSL20H90	80	80	80	80	80	80	80	80	80	80	80	80	80	80

(2) 1/2 INCH LINES ON A WAVEGUIDE LADDER, (1) 3/8 INCH SAFETY CABLE
MAXIMUM APPURTENANCE WEIGHT: 500 LBS WITHOUT ICE AND 1,000 LBS WITH ICE
TABULATED EPA VALUES INCREASED 100% FOR ICE LOADING CONDITION
TABULATED EPA VALUES LIMITED TO A MAXIMUM OF 80 SQ FT
k_a=1.0 FOR ALL TABULATED EPA

EARTHQUAKE LOADING CRITERIA

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

RISK CATEGORY	MAX S_S	MAX S_1	T_L
I	N/A*	N/A*	N/A*
II	2.50	1.00	6.00
III	2.00	0.80	6.00
IV	1.67	0.67	6.00

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

MAXIMUM FACTORED REACTIONS

BOTTOM SECTION	TOTAL O.T.M. (FT-K)	TOTAL SHEAR (KIPS)	AXIAL COMPRESSION (KIPS)	COMPRESSION PER LEG (KIPS)	TENSION PER LEG (KIPS)	SHEAR PER LEG (KIPS)
R2H	59.6	3.2	1.8	32.3	30.9	2.0
R3H	81.1	3.2	2.2	39.3	37.1	2.0
R4H	91.4	3.0	2.5	40.3	37.0	1.8
R5H	102.9	3.1	2.9	41.6	36.9	1.8
R6H	114.9	3.2	3.3	42.9	36.8	1.9
R7H	121.0	3.1	3.7	41.9	34.5	1.8
R8H	150.7	3.7	4.1	48.7	40.5	2.2
R9H	180.7	4.3	4.6	54.7	45.3	2.6
R10H	192.9	4.8	5.1	54.9	45.2	3.0

GENERAL NOTES

1. THE SUITABILITY OF THE TABULATED TOWER DESIGN CRITERIA FOR A SPECIFIC APPLICATION MUST BE VERIFIED PRIOR TO INSTALLATION BY THE PURCHASER BASED ON SITE-SPECIFIC DATA AND THE INTENDED USE OF THE STRUCTURE.
2. ALL USERS ARE SOLELY RESPONSIBLE FOR THE INSTALLATION, USE, MAINTENANCE, INSPECTION, CONDITION ASSESSMENTS AND OTHER WORK TO BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE INDUSTRY, LOCAL, STATE AND FEDERAL REQUIREMENTS.
3. THE TABULATED ALLOWABLE EFFECTIVE PROJECTED AREAS (EPA) REPRESENT THE SUMMATION OF THE PROJECTED AREAS OF ALL ANTENNAS, MOUNTS, AND APPURTENANCES MULTIPLIED BY APPROPRIATE DRAG FACTORS. THE ALLOWABLE PROJECTED AREAS ARE ASSUMED TO BE PLACED SYMMETRICALLY ON THE STRUCTURE. LOWER EPA VALUES MAY APPLY FOR OTHER EPA ARRANGEMENTS.
4. THE FOLLOWING MATERIAL SPECIFICATIONS APPLY TO THE TOWER DESIGN:
   LEG SIZE: U 2-3/4" X 1/4" 65 KSI MINIMUM YIELD STRENGTH
   BRACE SIZE: Ø1-1/4" X 16GA 50 KSI MINIMUM YIELD STRENGTH
   STRUCTURAL STEEL: 50 KSI MINIMUM YIELD STRENGTH
   FASTENERS: 120 KSI MINIMUM TENSILE STRENGTH
   ANCHOR RODS: 125 KSI MINIMUM TENSILE STRENGTH
   GALVANIZING: PER ASTM A123
5. TOWER FABRICATION SHALL BE BY ROHN PRODUCTS, LLC, CERTIFIED AISC FABRICATOR.
6. THE TOWER DESIGN ASSUMES INSTALLATION ON A PROPERLY DRAINED LEVEL SITE. THE TOWER DESIGN MAY REQUIRE MODIFICATIONS FOR INSTALLATIONS ON SITES WITH A SLOPING GRADE OR FOR TOWERS SUPPORTED ON OTHER STRUCTURES.
7. INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-I. INITIAL CONSTRUCTION INSPECTION REQUIREMENTS SHALL BE DETERMINED AND PERFORMED BY THE PURCHASER BASED ON THE LOCATION AND USE OF THE STRUCTURE.
8. SAFETY, STRENGTH AND STABILITY REQUIREMENTS FOR THE STRUCTURE FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES SHALL BE IN ACCORDANCE WITH ANSI/ASSP A10.48, "CRITERIA FOR SAFETY PRACTICES WITH THE CONSTRUCTION, DEMOLITION, MODIFICATION AND MAINTENANCE OF COMMUNICATION STRUCTURES" AND ALL APPLICABLE INDUSTRY, LOCAL, STATE AND FEDERAL REGULATIONS AND STANDARDS.
9. ALL RIGGING, SAFETY EQUIPMENT AND TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTION AND MAINTENANCE SHALL BE DETERMINED, FURNISHED AND INSTALLED BY THE CONTRACTOR BASED ON THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR. ALL CONSTRUCTION AND MAINTENANCE ACTIVITIES SHALL BE PERFORMED BY COMPETENT, QUALIFIED AND TRAINED PERSONNEL.
10. FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDING SHALL BE ALLOWED.
11. UNLESS OTHERWISE SPECIFIED, BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION WITH A NUT-LOCKING DEVICE IN ACCORDANCE WITH ANSI/TIA-222-I WITH NO MINIMUM INSTALLED BOLT TENSION OR TORQUE VALUES REQUIRED.
12. STEP BOLTS SHALL BE INSTALLED AS A CLIMBING FACILITY IN ACCORDANCE WITH ANSI/TIA-222-I FOR CLIMBING THE ENTIRE HEIGHT OF THE STRUCTURE. CLIMBING SHALL BE RESTRICTED TO COMPETENT CLIMBERS ONLY.
13. A SAFETY CLIMB SYSTEM SHALL BE USED IN ACCORDANCE WITH ANSI/TIA-222-I. ALL CLIMBING FACILITIES, INCLUDING SAFETY CLIMB SYSTEMS, SHALL BE INSPECTED PRIOR TO EACH USE.
14. PURCHASER SHALL VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH ALL APPLICABLE INDUSTRY, LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR GROUNDING AND OBSTRUCTION MARKING.
15. MAINTENANCE AND CONDITION ASSESSMENTS SHALL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-I.
16. FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE TABULATED FACTORED REACTIONS FOR THE CONDITIONS EXISTING AT THE SITE.
17. THE PROPER DEVELOPMENT OF ANCHOR RODS FOR THE TOWER SHALL BE VERIFIED BY THE FOUNDATION ENGINEER.
18. THE RSL STANDARD TOP MAST IS DESIGNED TO SUPPORT A MAXIMUM EPA OF 5 SQUARE FEET WITH 100 POUNDS VERTICAL LOAD. OTHER OPTIONAL TOP MOUNTS ARE AVAILABLE UPON REQUEST. ALL OTHER LOADING IS ASSUMED TO BE MOUNTED TO THE TOWER BELOW THE TOP MAST.

FILE NO.

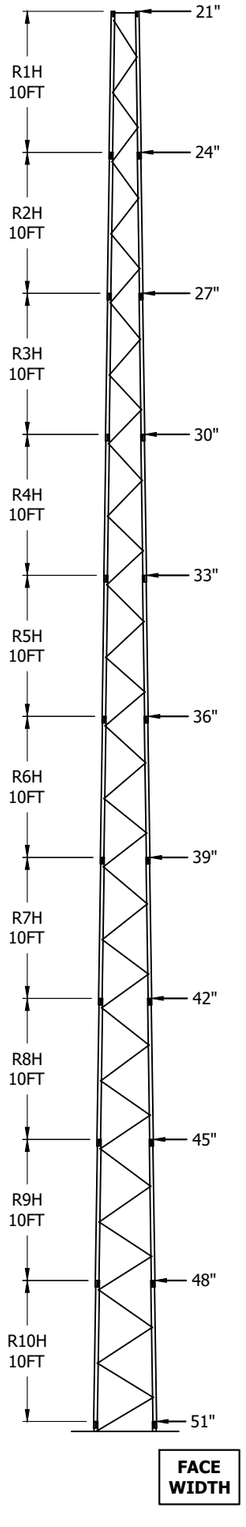
REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP

ROHN® PRODUCTS LLC
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

RSL TOWER
HEAVY TUBE BRACING

DWN:	CHK'D:	DATE:
JHY	AS	01/06/2026
ENG'R: SY	SHEET #: 1 OF 1	
PRJ. ENG'R: AS	PRJ. MANG'R:	
DRAWING NO: RSL-D-I	REV: 0	



GENERAL NOTES:

1. THE SUITABILITY OF THE TABULATED TOWER DESIGN CRITERIA FOR A SPECIFIC APPLICATION MUST BE VERIFIED PRIOR TO INSTALLATION BY THE PURCHASER BASED ON SITE-SPECIFIC DATA AND THE INTENDED USE OF THE STRUCTURE.
2. ALL USERS ARE SOLELY RESPONSIBLE FOR THE INSTALLATION, USE, MAINTENANCE, INSPECTION, CONDITION ASSESSMENTS AND OTHER WORK TO BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE INDUSTRY, LOCAL, STATE AND FEDERAL REQUIREMENTS.
3. DO NOT INSTALL OR DISMANTLE STRUCTURES WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES WITHOUT TAKING SPECIAL PRECAUTIONS IN ACCORDANCE WITH THE APPROPRIATE UTILITIES.
4. THE TOWER DESIGN ASSUMES INSTALLATION ON A PROPERLY DRAINED LEVEL SITE. THE TOWER DESIGN MAY REQUIRE MODIFICATIONS FOR INSTALLATIONS ON SITES WITH A SLOPING GRADE OR FOR TOWERS SUPPORTED ON OTHER STRUCTURES.
5. INITIAL CONSTRUCTION INSPECTION REQUIREMENTS SHALL BE DETERMINED AND PERFORMED BY THE PURCHASER BASED ON THE LOCATION AND USE OF THE STRUCTURE.
6. SAFETY, STRENGTH AND STABILITY REQUIREMENTS FOR THE STRUCTURE FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES SHALL BE IN ACCORDANCE WITH ANSI/ASSE A10.48, "CRITERIA FOR SAFETY PRACTICES WITH THE CONSTRUCTION, DEMOLITION, MODIFICATION AND MAINTENANCE OF COMMUNICATION STRUCTURES" AND ALL APPLICABLE INDUSTRY, LOCAL, STATE AND FEDERAL REGULATIONS AND STANDARDS.
7. ALL RIGGING, SAFETY EQUIPMENT AND TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTION AND MAINTENANCE SHALL BE DETERMINED, FURNISHED AND INSTALLED BY THE CONTRACTOR BASED ON THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR. ALL CONSTRUCTION AND MAINTENANCE ACTIVITIES SHALL BE PERFORMED BY COMPETENT, QUALIFIED AND TRAINED PERSONNEL.
8. PURCHASER SHALL VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH ALL APPLICABLE INDUSTRY, LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR GROUNDING AND OBSTRUCTION MARKING.
9. MAINTENANCE AND CONDITION ASSESSMENTS SHALL BE PERFORMED OVER THE LIFE OF THE STRUCTURE.
10. INSTALL WARNING SIGN PART NUMBER ACWS IN A HIGHLY VISIBLE LOCATION AT THE BASE OF THE STRUCTURE VISIBLE TO A CLIMBER.
11. FOR ADDITIONAL DESIGN NOTES, LOADING CRITERIA AND BASE REACTIONS SEE DESIGN DRAWING.

RSL NOTES:

1. ALL LEGS MUST BE INSTALLED WITH THE LEG PART NUMBER AT THE BOTTOM OF THE SECTION FOR PROPER FIT UP. LEG SPLICE HARDWARE IS INCLUDED IN THE SECTION KIT FOR THE UPPER SECTION AT THE SPLICE.
2. ALL TOWER ACCESSORIES TO BE ORDERED SEPARATELY (SEE DRAWING RSL-ACC).

RSL TOWER KITS

TOWER HEIGHT (FT)	SECTIONS	TOWER KIT P/N	TOP HORZ BRACE
100	R1H - R10H	**RSL100H10**	RSLH1A
90	R1H - R9H	**RSL90H19**	RSLH1A
	R2H - R10H	**RSL90H20**	RSLH2A
80	R1H - R8H	**RSL80H18**	RSLH1A
	R2H - R9H	**RSL80H29**	RSLH2A
	R3H - R10H	**RSL80H30**	RSLH3A
70	R1H - R7H	**RSL70H17**	RSLH1A
	R2H - R8H	**RSL70H28**	RSLH2A
	R3H - R9H	**RSL70H39**	RSLH3A
	R4H - R10H	**RSL70H40**	RSLH4A
60	R1H - R6H	**RSL60H16**	RSLH1A
	R4H - R9H	**RSL60H49**	RSLH4A
	R5H - R10H	**RSL60H50**	RSLH5A
50	R1H - R5H	**RSL50H15**	RSLH1A
	R5H - R9H	**RSL50H59**	RSLH5A
	R6H - R10H	**RSL50H60**	RSLH6A
40	R1H - R4H	**RSL40H14**	RSLH1A
	R7H - R10H	**RSL40H70**	RSLH7A
30	R1H - R3H	**RSL30H13**	RSLH1A
	R8H - R10H	**RSL30H80**	RSLH8A
20	R1H - R2H	**RSL20H12**	RSLH1A
	R9H - R10H	**RSL20H90**	RSLH9A

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
2	UPDATED TO NEW STANDARDS DATE: 01/07/2026	JHY	JDM	SY

ROHN® PRODUCTS LLC
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

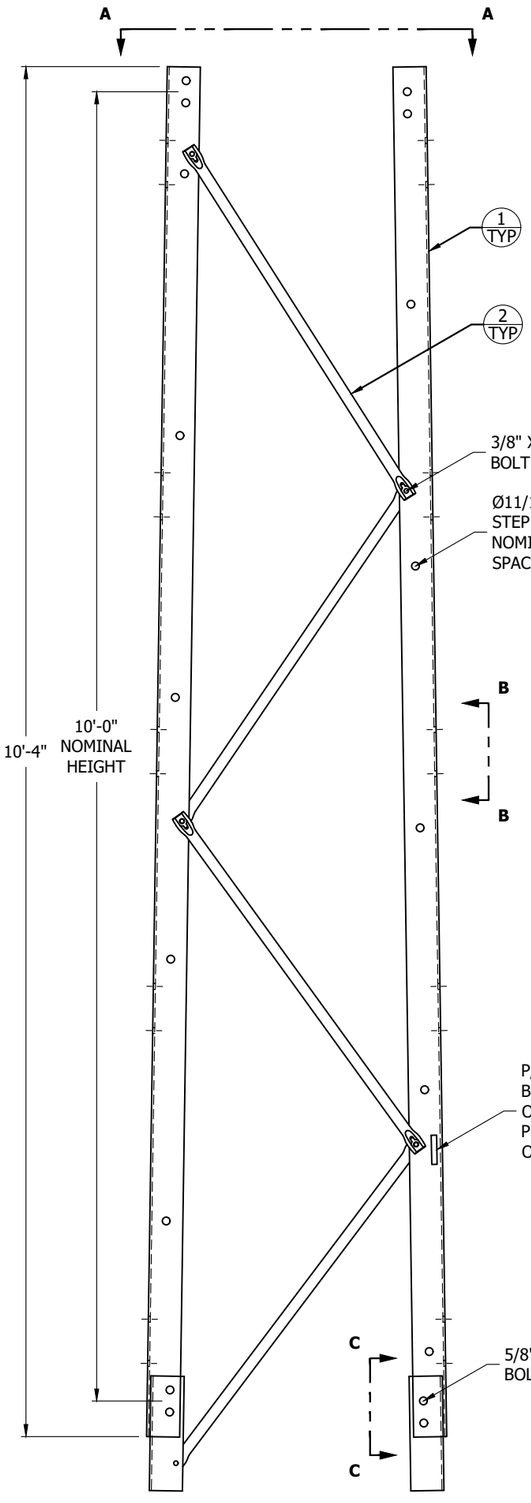
RSL TOWER
ASSEMBLY DRAWING
HEAVY TUBE BRACING

DWN:	CHK'D:	DATE:
ZAW	JDM	10/13/2012

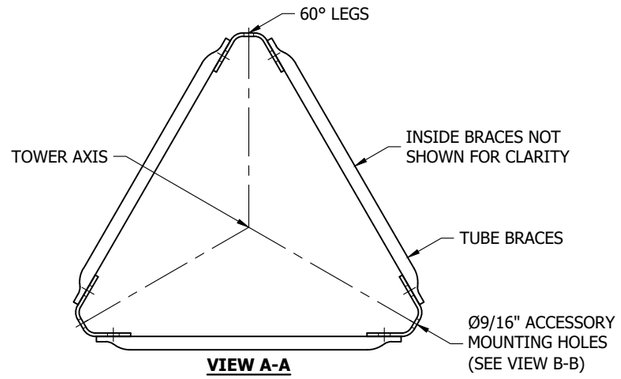
ENG'R:	SHEET #:
HA	1 OF 1

PRJ. ENG'R:	PRJ. MANG'R:
OH	

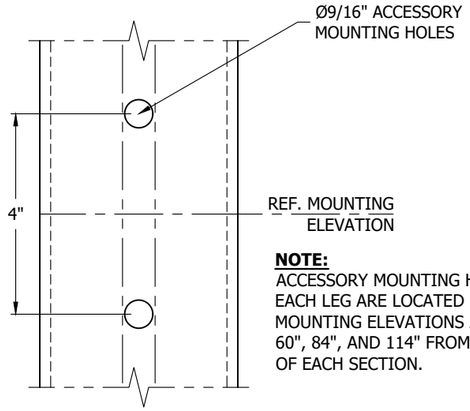
DRAWING NO:	REV:
RSLTH-01-A1	2



ELEVATION VIEW

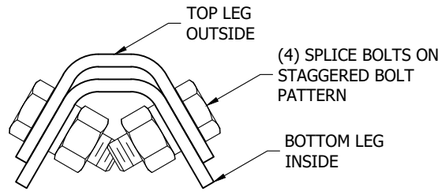


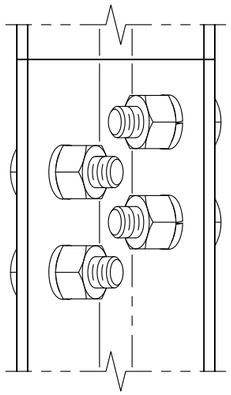
VIEW A-A



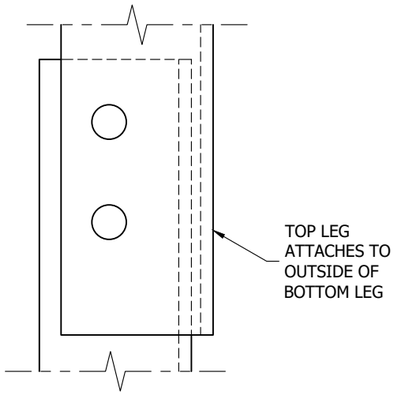
VIEW B-B
(TYP)

NOTE:
ACCESSORY MOUNTING HOLES IN EACH LEG ARE LOCATED FOR NOMINAL MOUNTING ELEVATIONS AT 6", 36", 60", 84", AND 114" FROM THE BOTTOM OF EACH SECTION.





VIEW C-C
(TYP)



RSL SECTION BILL OF MATERIALS

SECTION	ITEM	QTY	P/N	DESCRIPTION
R1H	1	3	RSLL-1	LEG R1 U 2.75"X.19"X10.33' HDG
	2	12	RSLD-1H	BRACE D R1 1.25ODX.065WX37.63
	3	1	RSLSECBK	BOLT KIT SECTION ASSY RSL
R2H	1	3	RSLL-2	LEG R2 U 2.75"X.19"X10.33' HDG
	2	12	RSLD-2H	BRACE D R2 1.25ODX.065WX39.38
	3	1	RSLSECBK	BOLT KIT SECTION ASSY RSL
R3H	1	3	RSLL-3	LEG R3 U 2.75"X.19"X10.33' HDG
	2	12	RSLD-3H	BRACE D R3 1.25ODX.065WX41.28
	3	1	RSLSECBK	BOLT KIT SECTION ASSY RSL
R4H	1	3	RSLL-4	LEG R4 U 2.75"X.19"X10.33' HDG
	2	12	RSLD-4H	BRACE D R4 1.25ODX.065WX43.29
	3	1	RSLSECBK	BOLT KIT SECTION ASSY RSL
R5H	1	3	RSLL-5	LEG R5 U 2.75"X.19"X10.33' HDG
	2	12	RSLD-5H	BRACE D R5 1.25ODX.065WX45.41
	3	1	RSLSECBK	BOLT KIT SECTION ASSY RSL
R6H	1	3	RSLL-6	LEG R6 U 2.75"X.19"X10.33' HDG
	2	12	RSLD-6H	BRACE D R6 1.25ODX.065WX47.61
	3	1	RSLSECBK	BOLT KIT SECTION ASSY RSL
R7H	1	3	RSLL-7	LEG R7 U 2.75"X.19"X10.33' HDG
	2	12	RSLD-7H	BRACE D R7 1.25ODX.065WX49.87
	3	1	RSLSECBK	BOLT KIT SECTION ASSY RSL
R8H	1	3	RSLL-8	LEG R8 U 2.77"X.25"X10.33' HDG
	2	12	RSLD-8H	BRACE D R8 1.25ODX.065WX52.04
	3	1	RSLSECBK	BOLT KIT SECTION ASSY RSL
R9H	1	3	RSLL-9	LEG R9 U 2.77"X.25"X10.33' HDG
	2	12	RSLD-9H	BRACE D R9 1.25ODX.065WX54.26
	3	1	RSLSECBK	BOLT KIT SECTION ASSY RSL
R10H	1	3	RSLL-10	LEG R10 U2.76"X.25"X10.33' HDG
	2	12	RSLD-10H	BRACE D R10 1.25ODX.065WX56.54
	3	1	RSLSECBK	BOLT KIT SECTION ASSY RSL

NOTE:
1. RSLSECBK KIT CONSISTS OF (15) 3/8" X 1-1/4" BOLT ASSEMBLIES (BOLT, NUT, LOCK WASHER) AND (12) 5/8" X 1-3/4" BOLT ASSEMBLIES (BOLT, NUT, LOCK WASHER)

FILE NO.

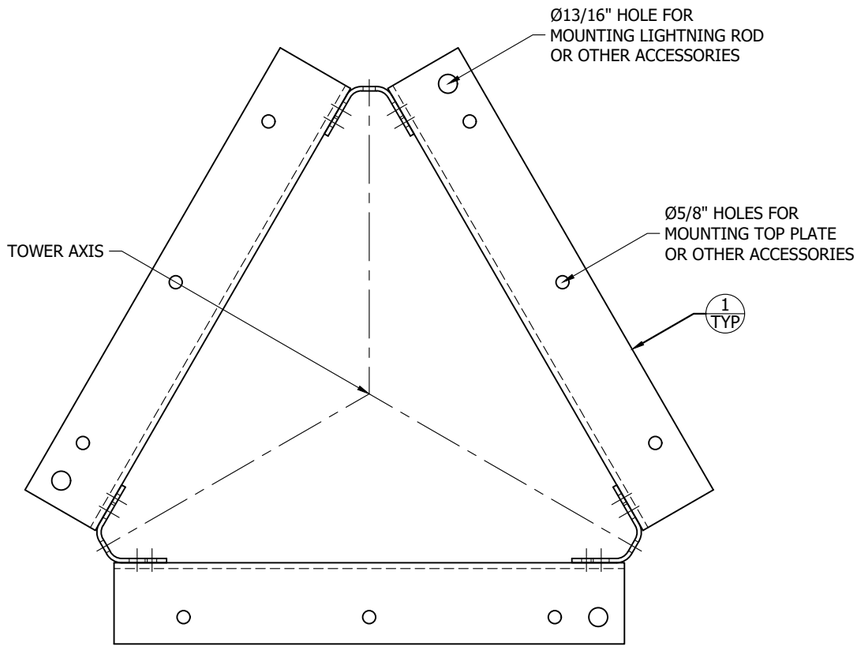
REVISIONS

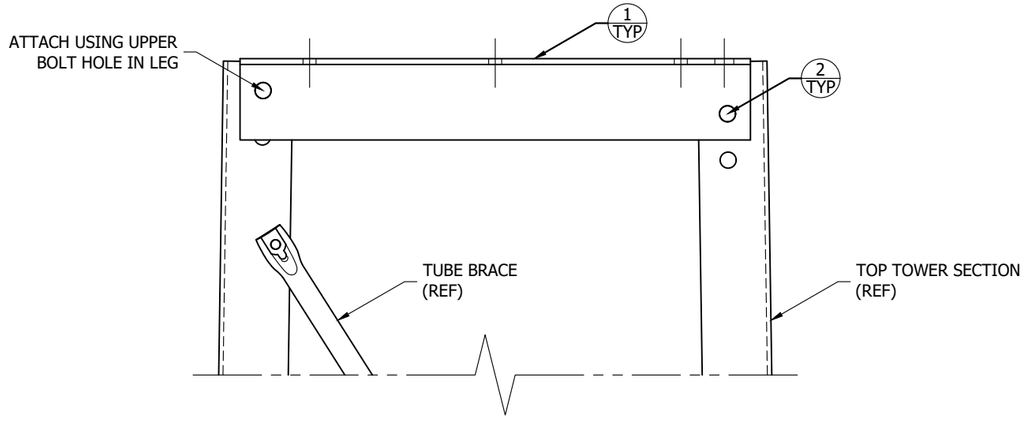
REV.	DESCRIPTION	DWN	CHK	APP
1	UPDATED TO NEW STANDARDS DATE: 01/07/2026	JHY	JDM	SY

ROHN® PRODUCTS LLC
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

RSL TOWER
SECTION DETAILS
HEAVY TUBE BRACING

DWN:	CHK'D:	DATE:
ZAW	JDM	10/13/2012
ENG'R: HA	SHEET #: 1 OF 1	
PRJ. ENG'R: OH	PRJ. MANG'R:	
DRAWING NO: RSLTH-01-A2	REV: 1	





ELEVATION VIEW

TOP HORIZONTAL BRACE KIT BILL OF MATERIAL

TOP SEC.	TOP HORIZ. BRACE KIT	ITEM	QTY	P/N	DESCRIPTION
R1H	**RSLH1A**	1	3	RSLH1	L 3.50X3.50X.25X22.02
		2	6	210030GA-TLN	BOLT ASSY 5/8X1-3/4 A325 HDG
R2H	**RSLH2A**	1	3	RSLH2	L 3.50X3.50X.25X24.95
		2	6	210030GA-TLN	BOLT ASSY 5/8X1-3/4 A325 HDG
R3H	**RSLH3A**	1	3	RSLH3	L 3.50X3.50X.25X27.88
		2	6	210030GA-TLN	BOLT ASSY 5/8X1-3/4 A325 HDG
R4H	**RSLH4A**	1	3	RSLH4	L 3.50X3.50X.25X30.81
		2	6	210030GA-TLN	BOLT ASSY 5/8X1-3/4 A325 HDG
R5H	**RSLH5A**	1	3	RSLH5	L 3.50X3.50X.25X33.73
		2	6	210030GA-TLN	BOLT ASSY 5/8X1-3/4 A325 HDG
R6H	**RSLH6A**	1	3	RSLH6	L 3.50X3.50X.25X36.66
		2	6	210030GA-TLN	BOLT ASSY 5/8X1-3/4 A325 HDG
R7H	**RSLH7A**	1	3	RSLH7	L 3.50X3.50X.25X39.59
		2	6	210030GA-TLN	BOLT ASSY 5/8X1-3/4 A325 HDG
R8H	**RSLH8A**	1	3	RSLH8	L 3.50X3.50X.25X42.52
		2	6	210030GA-TLN	BOLT ASSY 5/8X1-3/4 A325 HDG
R9H	**RSLH9A**	1	3	RSLH9	L 3.50X3.50X.25X45.23
		2	6	210030GA-TLN	BOLT ASSY 5/8X1-3/4 A325 HDG

NOTE:
1. BOLT ASSY'S IN B.O.M. ABOVE CONSIST OF BOLT & TRI-LOC NUT.
2. ADD SUFFIX A, P, OR T TO SECTION PART NUMBER FOR ANCO, PAL OR TRILOC NUT LOCKING DEVICE. EXAMPLE: RSLH1A-A FOR ANCO

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
3	UPDATED TO NEW STANDARDS DATE: 03/04/2026	JHY	JDM	JDM

ROHN PRODUCTS
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

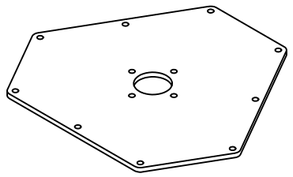
RSL TOWER
TOP HORIZONTAL BRACE KITS

DWN:	CHK'D:	DATE:
ZAW	JDM	08/07/12
ENG'R: HA	SHEET #: 1 OF 1	
PRJ. ENG'R: OH	PRJ. MANG'R:	
DRAWING NO: RSLHRZ	REV: 3	

TOP PLATE

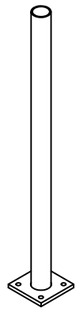
NOTE:
- 1/2" THICK PLATE.
- MOUNT TO TOP HORIZONTAL BRACES PROVIDED WITH TOWER KIT.
- KIT INCLUDES PLATE AND ATTACHMENT HARDWARE.

TOP SEC.	KIT
R1H	RTP12
R2H	RTP12
R3H	RTP34
R4H	RTP34
R5H	RTP56
R6H	RTP56
R7H	RTP07
R8H	RTP08
R9H	RTP09



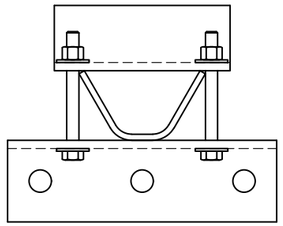
TOP MAST: RSLTMA

NOTE:
- 2.38" O.D. X 0.154" WALL X 3' MAST.
- MOUNTS TO TOP PLATE.
- TOP PLATE KIT MUST BE ORDERED SEPARATELY.
- KIT INCLUDES MAST AND ATTACHMENT HARDWARE.



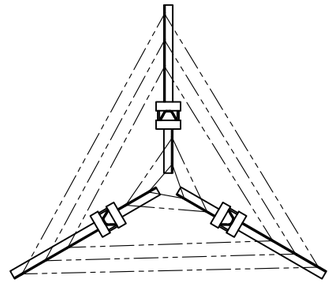
TIE BACK KIT: RSLTBA

NOTE:
- DISH TIE BACK BRACKET WITH (3) 11/16" HOLES.
- CLAMPS TO A LEG AT ANY LOCATION.
- KIT INCLUDES (1) BRACKET AND ATTACHMENT HARDWARE.



ANTI-CLIMB: RACW

NOTE:
- KIT INCLUDES (3) OUTER BRACKETS, (3) INNER BRACKETS, AND ATTACHMENT HARDWARE.
- BARBED OR RAZOR WIRE PROVIDED BY OTHERS.



OTHER

SAFETY DEVICE:
- TOWER HEIGHT ≤ 50': VPRSL50
- TOWER HEIGHT > 50': VPRSL100
- SLIDER: VP-WG500
- HARNESS: VP-FBH-C/P

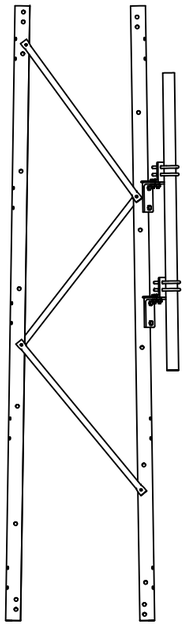
GROUNDING:
- TOWER HEIGHT < 40': REVI-RSL-40M
- TOWER HEIGHT ≥ 40': REVI-RSL-40P

LIGHTNING ROD:
- 5' COPPER CLAD ROD: LRCL

FOUNDATION BASE DRAWINGS:
- SHORT BASE SECTION KITS: RSLSBK
- LEG STUB & ANCHOR KITS: RSLABL

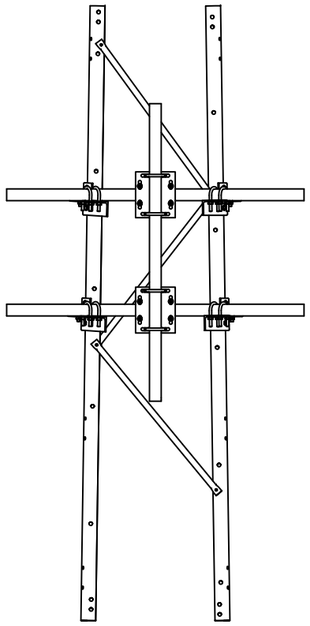
LEG MOUNT: RSLM-DLM

NOTE:
- 2.38" O.D. X 0.154" WALL X 5' MOUNTING PIPE.
- KIT INCLUDES PIPE AND ATTACHMENT HARDWARE.



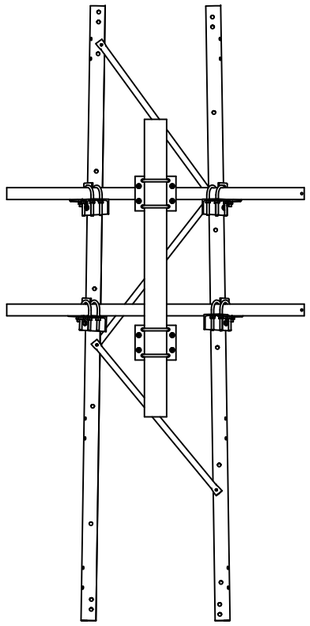
FACE MOUNT: RSLM-DFML

NOTE:
- 2.38" O.D. X 0.154" WALL X 5' MOUNTING PIPE.
- KIT INCLUDES PIPE AND ATTACHMENT HARDWARE.



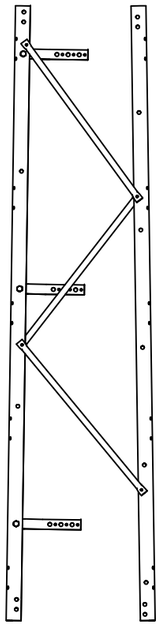
FACE MOUNT: RSLM-DFMH

NOTE:
- 4.50" O.D. X 0.237" WALL X 5' MOUNTING PIPE.
- KIT INCLUDES PIPE AND ATTACHMENT HARDWARE.



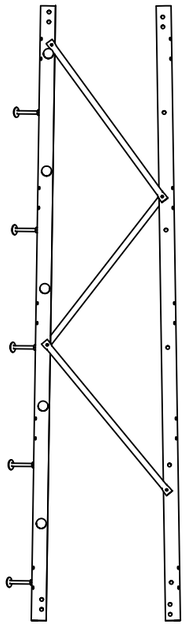
W/G BRACKETS: RSWGB

NOTE:
- SINGLE SECTION KIT INCLUDES (3) BRACKETS AND ATTACHMENT HARDWARE.
- CAN BE MOUNTED INSIDE OR OUTSIDE OF TOWER FACE.
- BRACKET INCLUDES (3) 7/16" HOLES AND (3) 3/4" HOLES.



STEP BOLTS: RSLSTEP

NOTE:
- SINGLE LEG KIT (10 STEPS PER KIT).
- KIT INCLUDES STEPS AND ATTACHMENT HARDWARE.



FILE NO.

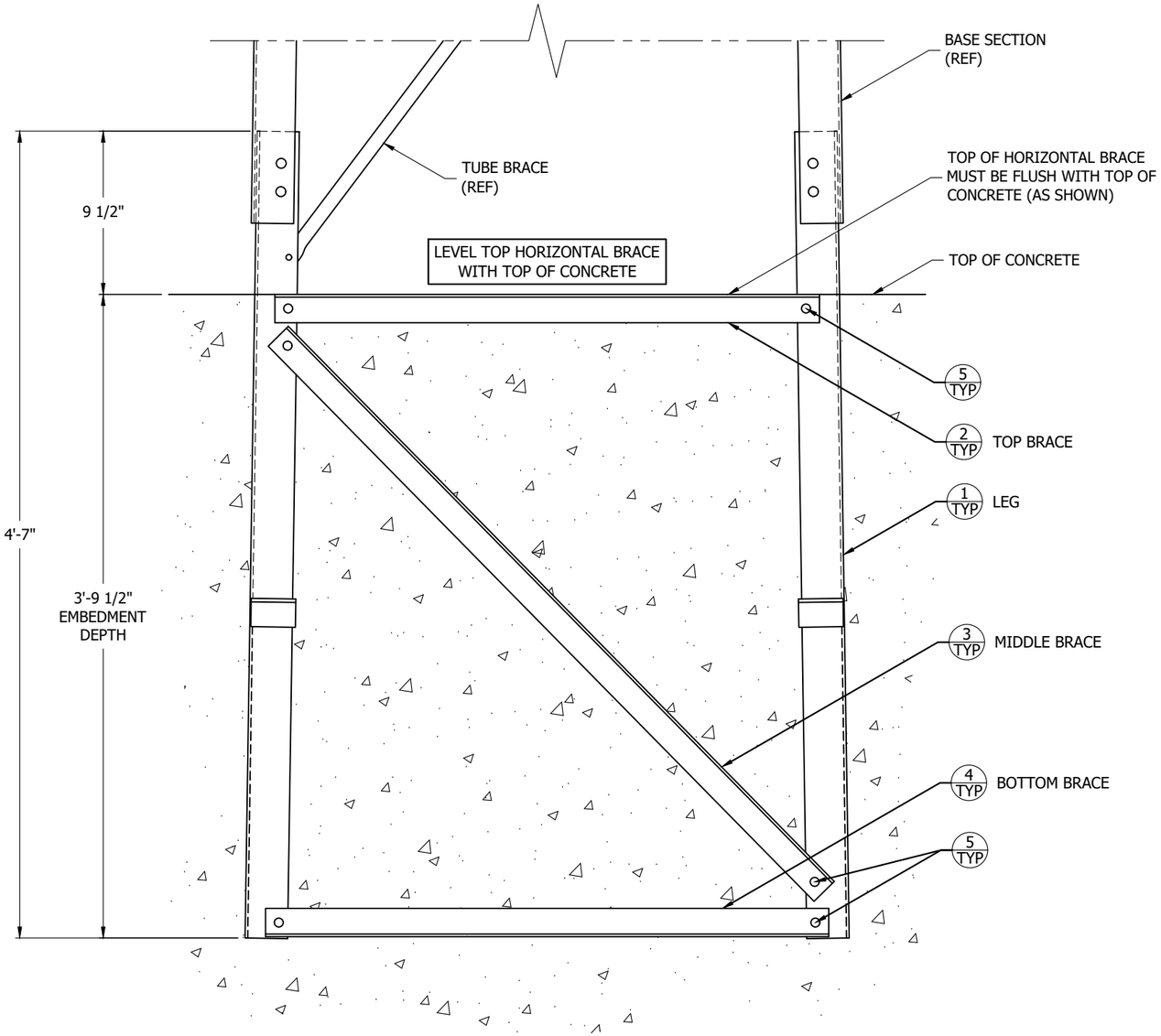
REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP

ROHN® PRODUCTS LLC
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

RSL TOWER
OPTIONAL ACCESSORIES

DWN:	CHK'D:	DATE:
JHY	JDM	03/04/2026
ENG'R: SY	SHEET #: 1 OF 1	
PRJ. ENG'R: TKL	PRJ. MANG'R:	
DRAWING NO: RSL-ACC	REV: 0	



ELEVATION VIEW

SHORT BASE SECTION KIT BILL OF MATERIAL

BASE SEC.	SHORT BASE KIT	ITEM	QTY	P/N	DESCRIPTION
R2H	**RSB02**	1	3	RSLF-BW	LEG BASE U2.74"X.19"X4.58' HDG
		2	3	BK2-TOP	L2.00X2.00X.19X28.02
		3	3	BK2-MID	L2.00X2.00X.19X47.05
		4	3	BK2-BOT	L2.00X2.00X.19X29.33
		5	18	210030GALW	BOLT ASSY 5/8X1-3/4 A325 HDG
R3H	**RSB03**	1	3	RSLF-BW	LEG BASE U2.74"X.19"X4.58' HDG
		2	3	BK3-TOP	L2.00X2.00X.19X30.95
		3	3	BK3-MID	L2.00X2.00X.19X48.84
		4	3	BK3-BOT	L2.00X2.00X.19X32.26
		5	18	210030GALW	BOLT ASSY 5/8X1-3/4 A325 HDG
R4H	**RSB04**	1	3	RSLF-BW	LEG BASE U2.74"X.19"X4.58' HDG
		2	3	BK4-TOP	L2.00X2.00X.19X33.87
		3	3	BK4-MID	L2.00X2.00X.19X50.75
		4	3	BK4-BOT	L2.00X2.00X.19X35.18
		5	18	210030GALW	BOLT ASSY 5/8X1-3/4 A325 HDG
R5H	**RSB05**	1	3	RSLF-BW	LEG BASE U2.74"X.19"X4.58' HDG
		2	3	BK5-TOP	L2.00X2.00X.19X36.80
		3	3	BK5-MID	L2.00X2.00X.19X52.75
		4	3	BK5-BOT	L2.00X2.00X.19X38.11
		5	18	210030GALW	BOLT ASSY 5/8X1-3/4 A325 HDG
R6H	**RSB06**	1	3	RSLF-BW	LEG BASE U2.74"X.19"X4.58' HDG
		2	3	BK6-TOP	L2.00X2.00X.19X39.73
		3	3	BK6-MID	L2.00X2.00X.19X54.84
		4	3	BK6-BOT	L2.00X2.00X.19X41.04
		5	18	210030GALW	BOLT ASSY 5/8X1-3/4 A325 HDG
R7H	**RSB07**	1	3	RSLF-BW	LEG BASE U2.74"X.19"X4.58' HDG
		2	3	BK7-TOP	L2.00X2.00X.19X42.66
		3	3	BK7-MID	L2.00X2.00X.19X57.01
		4	3	BK7-BOT	L2.00X2.00X.19X43.97
		5	18	210030GALW	BOLT ASSY 5/8X1-3/4 A325 HDG
R8H	**RSB08**	1	3	RSLF-BW	LEG BASE U2.74"X.19"X4.58' HDG
		2	3	BK8-TOP	L2.00X2.00X.19X45.37
		3	3	BK8-MID	L2.00X2.00X.19X59.07
		4	3	BK8-BOT	L2.00X2.00X.19X46.68
		5	18	210030GALW	BOLT ASSY 5/8X1-3/4 A325 HDG
R9H	**RSB09**	1	3	RSLF-BW	LEG BASE U2.74"X.19"X4.58' HDG
		2	3	BK9-TOP	L2.00X2.00X.19X48.08
		3	3	BK9-MID	L2.00X2.00X.19X61.19
		4	3	BK9-BOT	L2.00X2.00X.19X49.39
		5	18	210030GALW	BOLT ASSY 5/8X1-3/4 A325 HDG
R10H	**RSB10**	1	3	RSLF-BW	LEG BASE U2.74"X.19"X4.58' HDG
		2	3	BK10-TOP	L2.00X2.00X.19X50.79
		3	3	BK10-MID	L2.00X2.00X.19X63.35
		4	3	BK10-BOT	L2.00X2.00X.19X52.10
		5	18	210030GALW	BOLT ASSY 5/8X1-3/4 A325 HDG

NOTE:
1. MAT REINFORCING BARS NOT SHOWN FOR CLARITY.
2. BOLT ASSY'S IN B.O.M. CONSIST OF BOLT, SPRING LOCK WASHER, & NUT.

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
6	UPDATED TO NEW STANDARDS DATE: 03/05/2026	JHY	JDM	JDM

ROHN PRODUCTS
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

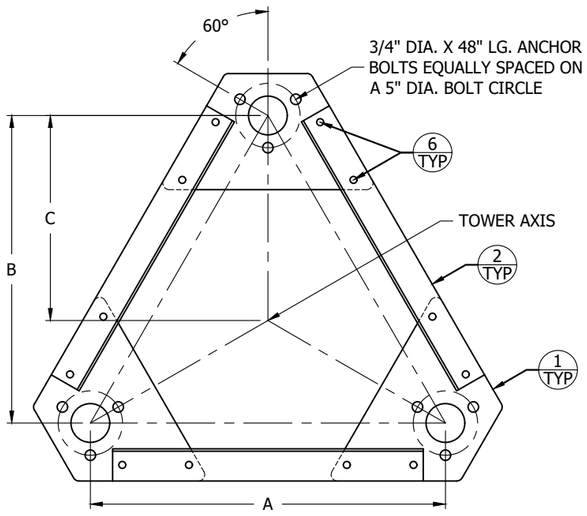
RSL TOWER
SHORT BASE SECTION KITS

DWN:	CHK'D:	DATE:
CEJ	JDM	05/21/2012

ENG'R:	SHEET #:
HA	1 OF 1

PRJ. ENG'R:	PRJ. MANG'R:
OH	

DRAWING NO:	REV:
RSLSBK	6

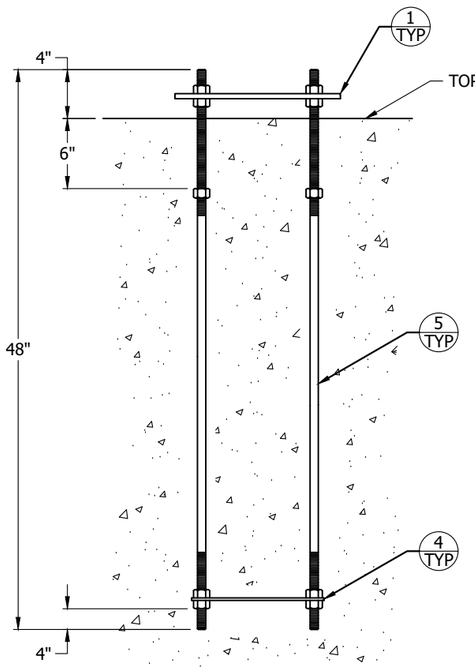


PROFILE VIEW
(N.T.S.)

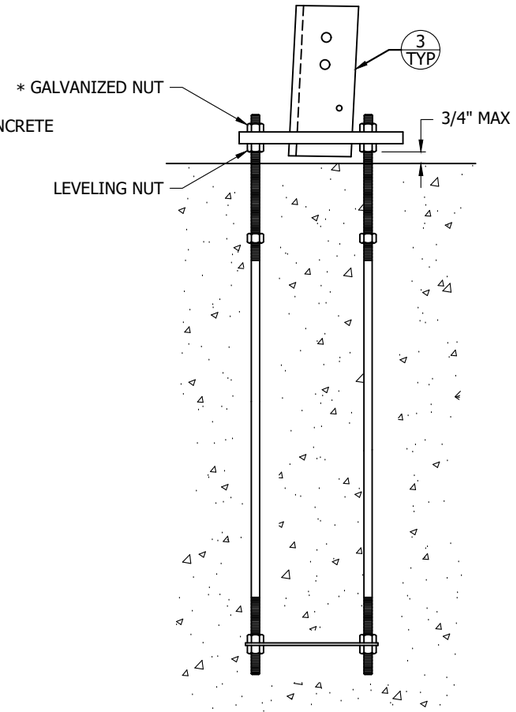
NOTE:

1. ALL ANCHOR BOLTS MUST MEET OR EXCEED REQUIREMENTS OF A.S.T.M. F1554-S2, S5 GRADE 105.
2. SPECIAL CARE MUST BE TAKEN WHEN LIFTING ANCHOR BOLT CLUSTER, IN ORDER TO PREVENT ANCHOR BOLT TEMPLATE DISTORTION.
3. ANCHOR BOLT ASSEMBLY MUST BE ADEQUATELY SUPPORTED AND RESTRAINED TO PREVENT MOVEMENT OF THE CLUSTER DURING CONCRETE INSTALLATION.
4. IT IS THE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR TO VERIFY THAT THE CORRECT ANCHOR BOLT TEMPLATE AND FOUNDATION ARE BEING USED.
5. IT IS THE RESPONSIBILITY OF THE FOUNDATION DESIGN ENGINEER TO INSURE THAT THE ANCHORAGES PROVIDED ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGN AND THAT THE CAPACITIES OF THE ANCHORAGES ARE NOT LIMITED BY THE STRENGTH OF THE FOUNDATION.
6. AFTER ANCHOR BOLTS ARE INSTALLED AND CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER. A NUT LOCKING DEVICE MUST BE INSTALLED ON ALL ANCHOR BOLTS.
7. ALL DIMENSIONS IN PARENTHESES ARE IN METERS, UNLESS OTHERWISE NOTED.
8. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZE UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.

∗ 9. ANCHOR BOLT NUTS SHALL BE ROTATED 1/3 TURN FROM SNUG TIGHT CONDITION WITH BOTTOM LEVELING NUT HELD IN PLACE.



ELEVATION VIEW
DURING CONCRETE INSTALLATION



ELEVATION VIEW
AFTER CONCRETE INSTALLATION

ANCHOR KIT BILL OF MATERIAL

BASE SEC.	ANCHOR KIT	ITEM	QTY	P/N	DESCRIPTION	A	B	C
R2H	**RAL02**	1	3	RSL-TEM	PL .19X9.00X16.30	2'-3 9/16"	1'-11 7/8"	1'-3 15/16"
		2	3	RSL2-ANG	ANCHOR BRACE L2.5X.19X24.09			
		3	3	RSL2-6W	LEG STUB R2-6 HDG			
		4	3	RSL-BOT	TEMPLATE .25X7.00"OD BLK			
		5	9	260093G	ANCHOR BOLT 3/4X48 F1554-S5			
		6	12	210017GA	BOLT ASSY 1/2X1-1/4 A325 HDG			
R3H	**RAL03**	1	3	RSL-TEM	PL .19X9.00X16.30	2'-6 1/2"	2'-2 3/8"	1'-5 5/8"
		2	3	RSL3-ANG	ANCHOR BRACE L2.5X.19X27.02			
		3	3	RSL2-6W	LEG STUB R2-6 HDG			
		4	3	RSL-BOT	TEMPLATE .25X7.00"OD BLK			
		5	9	260093G	ANCHOR BOLT 3/4X48 F1554-S5			
		6	12	210017GA	BOLT ASSY 1/2X1-1/4 A325 HDG			
R4H	**RAL04**	1	3	RSL-TEM	PL .19X9.00X16.30	2'-9 3/8"	2'-4 15/16"	1'-7 5/16"
		2	3	RSL4-ANG	ANCHOR BRACE L2.5X.19X29.94			
		3	3	RSL2-6W	LEG STUB R2-6 HDG			
		4	3	RSL-BOT	TEMPLATE .25X7.00"OD BLK			
		5	9	260093G	ANCHOR BOLT 3/4X48 F1554-S5			
		6	12	210017GA	BOLT ASSY 1/2X1-1/4 A325 HDG			
R5H	**RAL05**	1	3	RSL-TEM	PL .19X9.00X16.30	3'-0 5/16"	2'-7 7/16"	1'-9"
		2	3	RSL5-ANG	ANCHOR BRACE L2.5X.19X32.87			
		3	3	RSL2-6W	LEG STUB R2-6 HDG			
		4	3	RSL-BOT	TEMPLATE .25X7.00"OD BLK			
		5	9	260093G	ANCHOR BOLT 3/4X48 F1554-S5			
		6	12	210017GA	BOLT ASSY 1/2X1-1/4 A325 HDG			
R6H	**RAL06**	1	3	RSL-TEM	PL .19X9.00X16.30	3'-3 1/4"	2'-10"	1'-10 11/16"
		2	3	RSL6-ANG	ANCHOR BRACE L2.5X.19X35.80			
		3	3	RSL2-6W	LEG STUB R2-6 HDG			
		4	3	RSL-BOT	TEMPLATE .25X7.00"OD BLK			
		5	9	260093G	ANCHOR BOLT 3/4X48 F1554-S5			
		6	12	210017GA	BOLT ASSY 1/2X1-1/4 A325 HDG			
R7H	**RAL07**	1	3	RSL-TEM	PL .19X9.00X16.30	3'-6"	3'-0 3/8"	2'-0 1/4"
		2	3	RSL7-ANG	ANCHOR BRACE L2.5X.19X38.52			
		3	3	RSL7-10W	LEG STUB R7-10 HDG			
		4	3	RSL-BOT	TEMPLATE .25X7.00"OD BLK			
		5	9	260093G	ANCHOR BOLT 3/4X48 F1554-S5			
		6	12	210017GA	BOLT ASSY 1/2X1-1/4 A325 HDG			
R8H	**RAL08**	1	3	RSL-TEM	PL .19X9.00X16.30	3'-8 11/16"	3'-2 11/16"	2'-1 13/16"
		2	3	RSL8-ANG	ANCHOR BRACE L2.5X.19X41.23			
		3	3	RSL7-10W	LEG STUB R7-10 HDG			
		4	3	RSL-BOT	TEMPLATE .25X7.00"OD BLK			
		5	9	260093G	ANCHOR BOLT 3/4X48 F1554-S5			
		6	12	210017GA	BOLT ASSY 1/2X1-1/4 A325 HDG			
R9H	**RAL09**	1	3	RSL-TEM	PL .19X9.00X16.30	3'-11 3/8"	3'-5 1/16"	2'-3 3/8"
		2	3	RSL9-ANG	ANCHOR BRACE L2.5X.19X43.95			
		3	3	RSL7-10W	LEG STUB R7-10 HDG			
		4	3	RSL-BOT	TEMPLATE .25X7.00"OD BLK			
		5	9	260093G	ANCHOR BOLT 3/4X48 F1554-S5			
		6	12	210017GA	BOLT ASSY 1/2X1-1/4 A325 HDG			
R10H	**RAL10**	1	3	RSL-TEM	PL .19X9.00X16.30	4'-2 1/8"	3'-7 3/8"	2'-4 15/16"
		2	3	RSL10-ANG	ANCHOR BRACE L2.5X2.5X3/16			
		3	3	RSL7-10W	LEG STUB R7-10 HDG			
		4	3	RSL-BOT	TEMPLATE .25X7.00"OD BLK			
		5	9	260093G	ANCHOR BOLT 3/4X48 F1554-S5			
		6	12	210017GA	BOLT ASSY 1/2X1-1/4 A325 HDG			

FILE NO.
RSL-TOWER

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
9	UPDATED TO NEW STANDARDS DATE: 03/09/2026	JHY	JDM	JDM

ROHN PRODUCTS
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

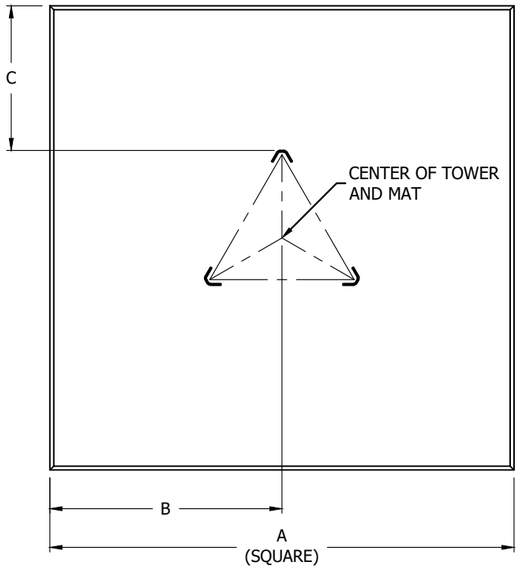
RSL TOWER
LEG STUBS & ANCHOR KITS

DWN:	CHK'D:	DATE:
ZAW	JDM	06/14/2012

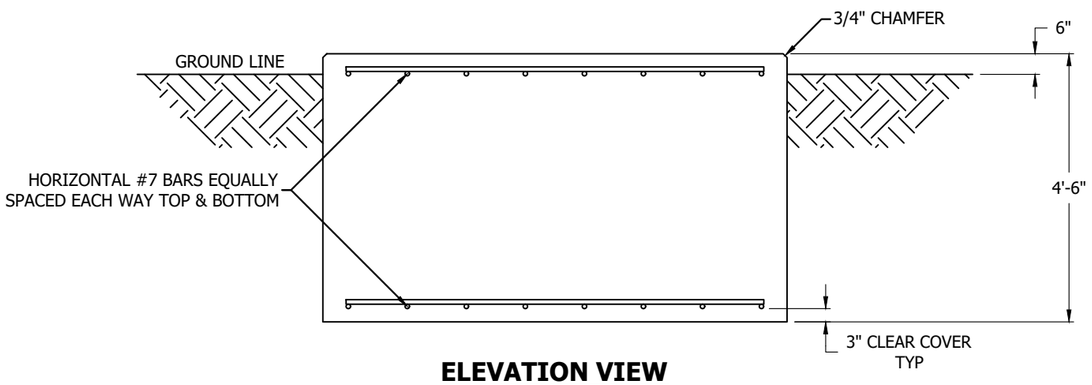
ENG'R:	SHEET #:
DWG	1 OF 1

PRJ. ENG'R:	PRJ. MANG'R:
OH	

DRAWING NO:	REV:
RSLABL	9



PLAN VIEW



ELEVATION VIEW

RSL TOWER STANDARD MAT FOUNDATIONS

BASE SECTION REFERENCE	NOMINAL FACE WIDTH	FOUNDATION DIMENSIONS			CONCRETE	TOTAL #7 BARS
		A	B	C		
2	2'-3"	7'-6"	3'-9"	2'-4"	9.4 yd³	32
3	2'-6"	7'-9"	3'-10 1/2"	2'-4"	10.0 yd³	40
4	2'-9"	8'-0"	4'-0"	2'-4"	10.7 yd³	40
5	3'-0"	8'-3"	4'-1 1/2"	2'-4"	11.3 yd³	40
6	3'-3"	8'-6"	4'-3"	2'-3"	12.0 yd³	40
7	3'-6"	8'-6"	4'-3"	2'-2"	12.0 yd³	40
8	3'-9"	9'-6"	4'-9"	2'-6"	15.0 yd³	40
9	4'-0"	9'-9"	4'-10 1/2"	2'-6"	15.8 yd³	48
10	4'-3"	10'-0"	5'-0"	2'-6"	16.7 yd³	48

NOTE: SEE DRAWING NUMBER B090548 FOR STANDARD FOUNDATION NOTES IN ACCORDANCE WITH ANSI/TIA-222-G OR ANSI/TIA-222-H.

SEE DRAWING NUMBER B090548-I FOR STANDARD FOUNDATION NOTES IN ACCORDANCE WITH ANSI/TIA-222-I.

FILE NO.
RSL TOWER

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
4	CHANGED PROJECTION FROM 4 TO 6 DATE: 01/06/2026	JHY	AS	SY

ROHN® PRODUCTS, LLC
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

RSL TOWER
STANDARD MAT FOUNDATION DETAILS

DWN:	CHK'D:	DATE:
ZAW	SSM	7/11/12
ENG'R: HA		SHEET #: 1 OF 1
PRJ. ENG'R: OH		PRJ. MANG'R:
DRAWING NO: RSL-01-F1		REV: 4

STANDARD FOUNDATION NOTES
ANSI/TIA-222-I

1. STANDARD FOUNDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA-222-I, "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES, ANTENNAS AND SMALL WIND TURBINE SUPPORT STRUCTURES" FOR THE FOLLOWING PRESUMPTIVE CLAY SOIL PARAMETERS:

N (blows/ft)	Φ (deg)	Y (lb/ft3)	C (psf)	ULTIMATE BEARING (psf)		ULTIMATE SKIN FRICTION (psf)	k (pci)	ε 50
				SHALLOW FNDS.	DEEP FNDS.			
8	0	110	1000	5000	9000	500	150	0.01
GROUND WATER TABLE IS AT OR BELOW FOUNDATION DEPTH MAXIMUM FROST PENETRATION DEPTH LESS THAN FOUNDATION DEPTH								

2. THE PURCHASER SHALL VERIFY THAT ACTUAL SITE SOIL PARAMETERS MEET OR EXCEED ANSI/TIA-222-I PRESUMPTIVE CLAY SOIL DESIGN PARAMETERS AND THAT THE DEPTH OF STANDARD FOUNDATIONS ARE ADEQUATE BASED ON THE FROST PENETRATION AND/OR ZONE OF SEASONAL MOISTURE VARIATION AT THE SITE. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT PRESUMPTIVE CLAY SOIL PARAMETERS ARE NOT APPLICABLE FOR THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED.
3. A SITE-SPECIFIC INVESTIGATION IS REQUIRED FOR RISK CATEGORY II STRUCTURES IN ACCORDANCE WITH ANSI/TIA-222-I.
4. FOUNDATION DESIGNS ASSUME FIELD INSPECTIONS WILL BE PERFORMED BY THE PURCHASER'S REPRESENTATIVE TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS EXISTING AT THE SITE.
5. WORK SHALL BE IN ACCORDANCE WITH THE PROJECT CONSTRUCTION DOCUMENTS, LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
6. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
7. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENT OF ACI 318 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI IN 28 DAYS.
8. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 3/4 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING SHALL BE UTILIZED TO PREVENT HONEYCOMBS OR VOIDS.
9. REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
10. REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING, THROUGHOUT PLACEMENT OF CONCRETE AND DURING EXTRACTION OF TEMPORARY CASING.
11. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
12. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH MINIMUM COVER ON REINFORCEMENT. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES NOR BE LESS THAN 2 INCHES.
13. SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
14. FOUNDATION DESIGNS ASSUME STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 110 POUNDS PER CUBIC FOOT.
15. FOUNDATION DESIGNS ASSUME AN INSTALLATION ON A PROPERLY DRAINED LEVEL SITE.
16. FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
17. ALL CONSTRUCTION AND SAFETY EQUIPMENT AND TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTION SHALL BE DETERMINED, FURNISHED AND INSTALLED BY THE CONTRACTOR BASED ON THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY COMPETENT, QUALIFIED AND TRAINED PERSONNEL.
18. FOR FOUNDATION AND ANCHOR TOLERANCES SEE ANCHOR ROD LAYOUT DRAWING.
19. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
20. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
21. FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICALLY DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, ANCHORAGES, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
22. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL EXCEPT FOR PIERS SUPPORTED ON SPREAD FOUNDATIONS. FORMS FOR PIERS SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
23. CONSTRUCTION JOINTS, IF REQUIRED IN DRILLED PIER OR CAISSON FOUNDATIONS, SHALL BE AT LEAST 12 INCHES BELOW BOTTOM OF EMBEDMENTS AND MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH. FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
24. CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF PIERS SUPPORTED ON SPREAD FOUNDATIONS, SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH. FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
25. CASING, IF USED, SHALL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBED UPON CASING REMOVAL. DRILLING FLUID, IF USED, SHALL BE FULLY DISPLACED BY CONCRETE AND SHALL NOT BE DETRIMENTAL TO CONCRETE OR SURROUNDING SOIL. CONTAMINATED CONCRETE SHALL BE REMOVED FROM TOP OF FOUNDATION AND REPLACED WITH FRESH CONCRETE.
26. TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISHED. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" MINIMUM.
27. FOR ANCHOR BLOCK TYPE FOUNDATIONS, FOR GUYED MASTS, ADDITIONAL CORROSION PROTECTION MAY BE REQUIRED FOR STEEL GUY ANCHORS IN DIRECT CONTACT WITH SOIL. DESIGN ASSUMES PERIODIC INSPECTIONS WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE TO DETERMINE IF ADDITIONAL ANCHOR CORROSION PROTECTION MEASURES SHALL BE IMPLEMENTED BASED ON OBSERVED SITE-SPECIFIC CONDITIONS.

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP

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ANSI/TIA-222-I
STANDARD FOUNDATION DESIGN NOTES

DWN:	CHK'D:	DATE:
JHY	JDM	03/05/2026
ENG'R: SY	SHEET #: 1 OF 1	
PRJ. ENG'R: AS	PRJ. MANG'R:	
DRAWING NO: B090548-I	REV: 0	