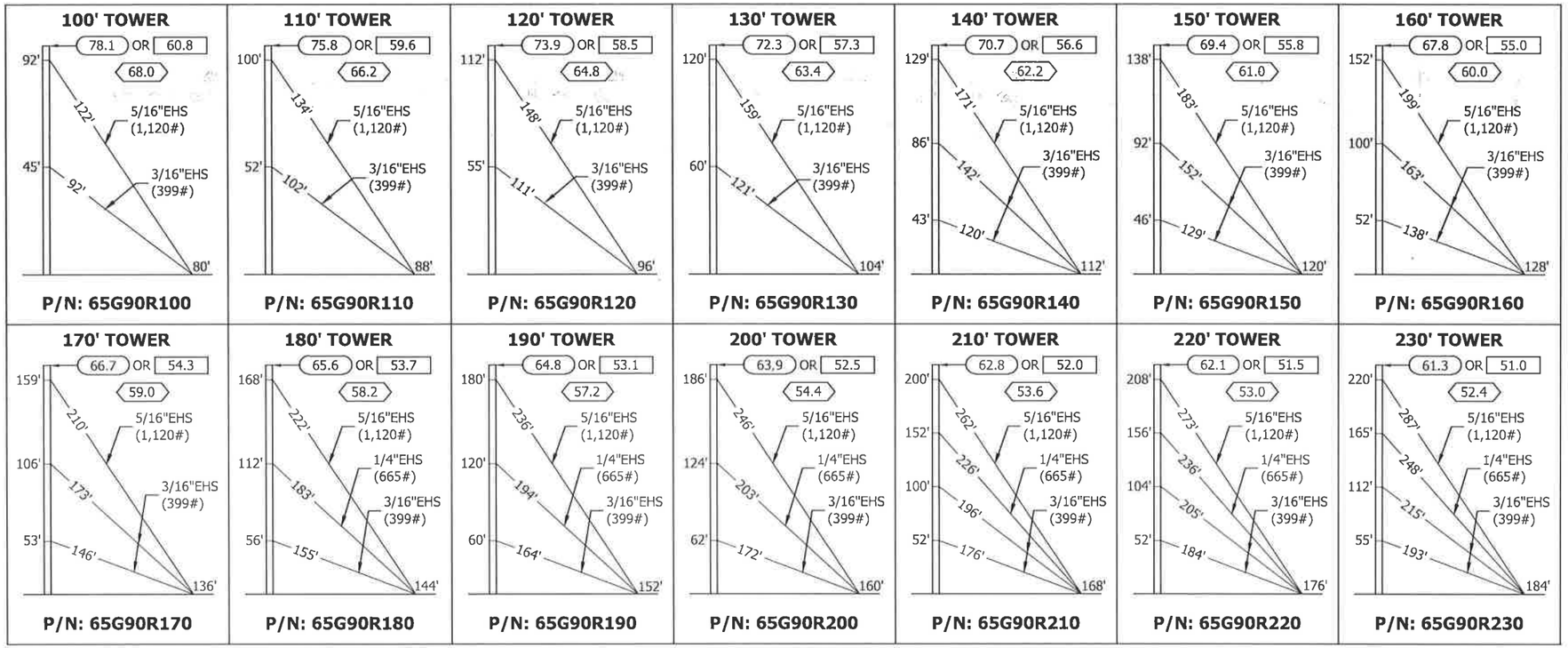
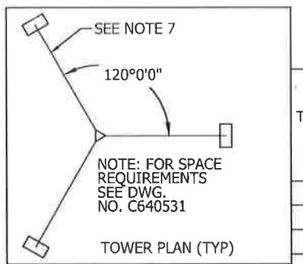


65G TOWER GUYING DETAILS
100' - 230'
90MPH 3-SECOND GUST WIND SPEED
NO ICE (REV G)
70 MPH FASTEST MILE WIND SPEED
NO ICE (REV F)



TOWER HT.	BASE PIER (DWG: B090549)	ANCHOR DATA (DWG: B090550)		
	NO.	BLOCK NO.	ROD NO.	ROD ANGLE
100'	CB2G	AB2	GAC3455TOP	44
110'	CB2G	AB2	GAC3455TOP	44
120'	CB2G	AB2	GAC3455TOP	44
130'	CB2G	AB2	GAC3455TOP	44
140'	CB2G	AB2	GAC3455TOP	42
150'	CB2G	AB2	GAC3455TOP	42
160'	CB2G	AB3	GAC5655TOP	42
170'	CB3G	AB3	GAC5655TOP	41
180'	CB3G	AB3	GAC5655TOP	41
190'	CB3G	AB3	GAC5655TOP	41
200'	CB3G	AB3	GAC5655TOP	41
210'	CB3G	AB3	GAC5655TOP	40
220'	CB3G	AB3	GAC5655TOP	40
230'	CB3G	AB3	GAC5655TOP	40

GENERAL NOTES:

1. TOWER DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA-222-F & ANSI/TIA-222-G, CLASS I STRUCTURES.
2. ⬭ ALLOWABLE PROJ. AREA (SQ. FT.) FOR EXPOSURE B - (REV G).
   ▭ ALLOWABLE PROJ. AREA (SQ. FT.) FOR EXPOSURE C - (REV G).
   ⬭ ALLOWABLE PROJ. AREA (SQ.FT.) - (REV F).
3. EFFECTIVE PROJ. AREAS MUST NOT EXCEED THE AREAS SHOWN.
4. ANTENNAS AND MOUNTS ARE ASSUMED SYMMETRICALLY PLACED AT THE TOWER TOP.
5. DESIGNS ASSUME ONE 1/2" DIA. LINE ON EACH TOWER FACE.
6. FOR GUY HARDWARE INSTALLATION DETAILS, SEE DWG. A871382.
7. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
8. TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL CUT LENGTHS. ( ) INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 60 DEGREES FAHRENHEIT.
9. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
10. TOWER ERECTION AND DISMANTLING MUST BE DONE BY QUALIFIED AND EXPERIENCED PERSONNEL.
11. TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
12. INSTALL WARNING PLATE (P/N: ACWS) IN A HIGHLY VISIBLE LOCATION.
13. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
14. EXTRA CABLE CLAMPS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. B680324 LATEST REVISION.
15. PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
16. TOLERANCE ON TOWER STEEL IS EQUAL TO PLUS 1% AND MINUS 1/2%.
17. DESIGNS ASSUME THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA/EIA-222-G.
18. ANCHOR RODS CORROSION PROTECTION METHODS TO BE PROVIDED BY OTHERS.
19. SECTION 65G (10'), WHEN USED, WILL BE LOCATED AT TOP OF TOWER.

FILE NO.
Standard-65G

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
1	REVISED ANCHOR ROD ANGLES & ADDED ANCHOR DATA DRAWING NUMBERS DATE: Feb/19/2010	JWS	M.F	DWG
2	REMOVED "ANCHOR TOD SLOPE" NOTE DATE: May/05/2010	JWS	JDM	HA

DWG REFERENCE

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

SECTION ASSEMBLY
65G 90MPH 3-SECOND GUST NO ICE

DWN:	CHK'D:	DATE:
JWS	KTL	Jan/14/2010

ENG'R: HA

DRAWING NO: DWG-0082-1

REV: 2

May/07/2010 8:54:30 AM

\Erection\

FOUNDATION AND ANCHOR TOLERANCES
ALL FOUNDATIONS

1. CONCRETE DIMENSIONS - PLUS OR MINUS 1" (25mm).
2. DEPTH OF FOUNDATION - PLUS 3" (76mm) OR MINUS 0".
3. DRILLED FOUNDATIONS OUT OF PLUMB - 1.0 DEGREE.
4. REINFORCING STEEL PLACEMENT - PER A.C.I. 301.
5. PROJECTION OF EMBEDMENTS - PLUS OR MINUS 1/8" (3mm).
6. VERTICAL EMBEDMENTS OUT OF PLUMB - 0.5 DEGREE.

ANCHOR BOLTS

7. MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (51mm).
8. ANCHOR BOLT SPACING - 1/16" (2mm).
9. ANCHOR BOLT CIRCLE ORIENTATION - 0.25 DEGREE.
10. ANCHOR BOLT CIRCLE DIAMETER - PLUS OR MINUS 1/16" (2mm).

SELF-SUPPORTING TOWERS

11. FACE SPREAD DIMENSION CENTER TO CENTER OF ANCHOR BOLT CIRCLES - PLUS OR MINUS 1/16" (2mm) OR 1/16" (2mm) PER 20 FT. (6m) OF FACE SPREAD.
12. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS - 1/2" (13mm).

GUYED TOWERS

13. GUY RADIUS - PLUS OR MINUS 5% OF DISTANCE SPECIFIED.
14. ANCHOR ELEVATION - PLUS OR MINUS 5% OF GUY RADIUS.
15. ANCHOR ALIGNMENT (PERPENDICULAR TO GUY RADIUS) - 1.0 DEGREE.
16. ANCHOR ROD SLOPE - PLUS OR MINUS 1.0 DEGREE.
17. ANCHOR ROD ALIGNMENT WITH GUY RADIUS PLUS OR MINUS 1.0 DEGREE.
18. ANCHOR HEAD OUT OF PLUMB - 1.0 DEGREE.
19. GUY INITIAL TENSION - PLUS OR MINUS 10% OF TENSION SPECIFIED.

NOTE: TOLERANCES IN NOTES 13 AND 14 CAN NOT OCCUR SIMULTANEOUSLY

WARNING!!!

AFTER ANCHOR BOLTS ARE INSTALLED IN 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.

Jan/14/2008 3:23:22 PM

\Erection\

FILE NO.
Standard-SSV

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
8	REDRAWN TO AUTOCAD DATE: Jul/17/2006	JDA	JDM	H.A

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

FOUNDATION & ANCHOR TOLERANCE

DWN:	CHK'D:	DATE:
CSR	KTL	Sep/25/1987

ENG'R: XK

DRAWING NO: A810214

REV: 8

STANDARD FOUNDATION NOTES
ANSI/TIA-222-G

1. STANDARD FOUNDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA-222-G, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES", SECTION 9 AND ANNEX F FOR THE FOLLOWING PRESUMPTIVE CLAY SOIL PARAMETERS:

N (blows/ft) [blows/m]	Φ (deg)	Y (lb/ft3) [kN/m3]	C (psf) [kPa]	Ultimate Bearing (psf) [kPa]		Ultimate Skin Friction (psf) [kPa]	k (pci) [kN/m3]	ε_{50}
				Shallow Fnds.	Deep Fnds.			
8 [26]	0	110 [17]	1000 [48]	5000 [240]	9000 [431]	500 [24]	150 [41,000]	0.01

2. THE PURCHASER MUST VERIFY THAT ACTUAL SITE SOIL PARAMETERS MEET OR EXCEED ANSI/TIA-222-G PRESUMPTIVE CLAY SOIL DESIGN PARAMETERS AND THAT THE 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 CLASS III STRUCTURES IN ACCORDANCE WITH ANSI/TIA-222-G.
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 LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED 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 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI (27.6 MPa) IN 28 DAYS.
8. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL 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 (76 mm) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 mm) MINIMUM COVER ON REINFORCEMENT. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES (76 mm) NOR BE LESS THAN 2 INCHES (51 mm).
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 (200 mm) 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 100 POUNDS PER CUBIC FOOT (16 kN/m3).
15. FOUNDATION DESIGNS ASSUME LEVEL GRADE AT THE 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. FOR FOUNDATION AND ANCHOR TOLERANCES SEE DRAWING A810214.
18. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
19. 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.
20. FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
21. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL EXCEPT FOR PIERS OR PIER AND PAD FOUNDATIONS. FORMS FOR PIERS SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
22. CONSTRUCTION JOINTS, IF REQUIRED IN PIER MUST BE AT LEAST 12 INCHES (305 mm) BELOW BOTTOM OF EMBEDMENTS AND MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6 mm). FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
23. 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.
24. TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISHED. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19 mm X 19 mm) MINIMUM.
25. FOR ANCHOR BLOCK TYPE FOUNDATIONS, FOR GUYED TOWERS, 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 MUST BE IMPLEMENTED BASED ON OBSERVED SITE-SPECIFIC CONDITIONS.

FILE NO.

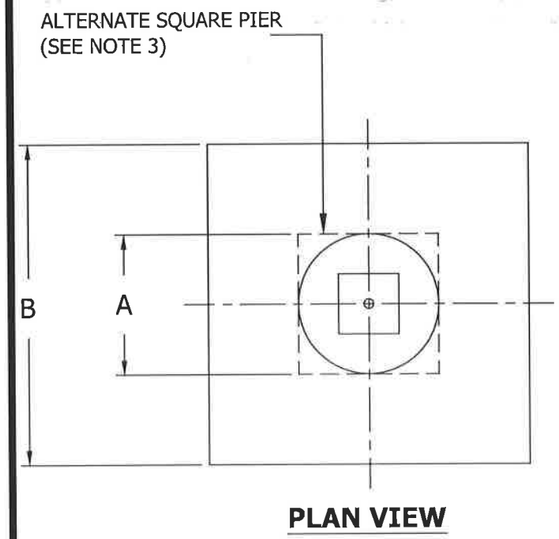
REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
1	REVISED NOTES AND DESCRIPTION DATE: 6/8/2012	JEC	JDM	HA

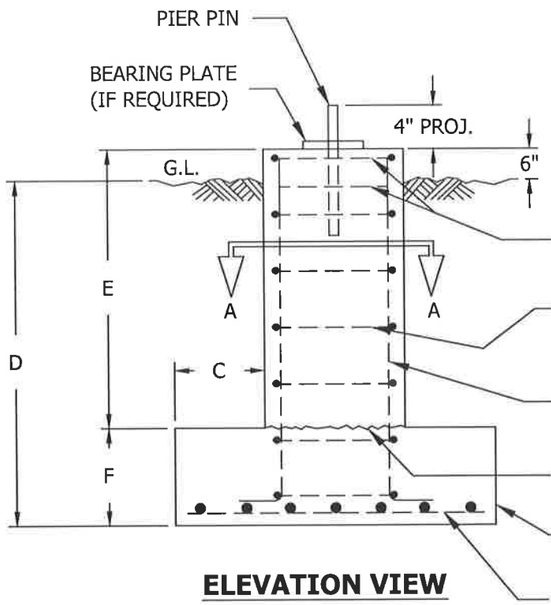
ROHN PRODUCTS
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

ANSI/TIA-222-G
STANDARD FOUNDATION NOTES

DWN:	CHK'D:	DATE:
FAD	HA	Nov/20/2009
ENG'R: HA	SHEET #: 1 OF 1	
PRJ. ENG'R:	PRJ. MANG'R:	
DRAWING NO: B090548	REV: 1	



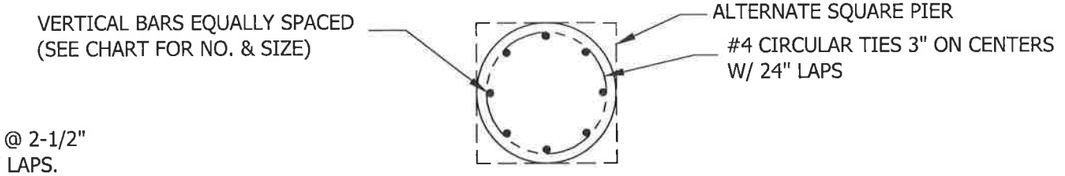
PLAN VIEW



ELEVATION VIEW

CONCRETE BASE SCHEDULE FOR ANSI/TIA-222-G PRESUMPTIVE CLAY SOIL

CB NO.	TOWER BASE REACTION (LBS)	DIMENSIONS						BEARING PLATE	CONC. (CU. YDS RD PIER)	VERTICAL BARS (NO. & SIZE)	HORIZ. BARS IN PAD (NO. & SIZE)
		* A	B	C	D	E	F				
1G	12,000	2'-6"	2'-6"	0	4'-0"	0	0	BP6	0.80	8 NO. 7	NONE
2G	17,000	3'-0"	3'-0"	0	4'-0"	0	0	BP6	1.20	10 NO. 7	NONE
3G	23,000	3'-6"	3'-6"	0	4'-0"	0	0	BP6	1.60	12 NO. 7	NONE
4G	30,000	4'-0"	4'-0"	0	4'-0"	0	0	BP6	2.10	12 NO. 8	NONE
5G	38,000	2'-0"	4'-0"	1'-0"	4'-0"	3'-3"	1'-3"	BP6	1.10	8 NO. 6	5 NO. 5
6G	48,000	2'-0"	4'-6"	1'-3"	4'-0"	3'-3"	1'-3"	BP6	1.30	8 NO. 6	6 NO. 5
7G	58,000	2'-0"	5'-0"	1'-6"	4'-6"	3'-9"	1'-3"	BP10	1.60	8 NO. 6	6 NO. 5
8G	71,000	2'-0"	5'-6"	1'-9"	4'-6"	3'-9"	1'-3"	BP10	1.80	8 NO. 6	7 NO. 5
9G	84,000	2'-0"	6'-0"	2'-0"	4'-6"	3'-6"	1'-6"	BP10	2.40	8 NO. 6	7 NO. 6
10G	99,000	2'-0"	6'-6"	2'-3"	4'-6"	3'-6"	1'-6"	BP10	2.80	8 NO. 6	8 NO. 5
11G	111,000	2'-6"	7'-0"	2'-3"	5'-0"	3'-9"	1'-9"	BP15	3.90	8 NO. 7	8 NO. 6
12G	127,000	2'-6"	7'-6"	2'-6"	5'-0"	3'-9"	1'-9"	BP15	4.30	8 NO. 7	9 NO. 6
13G	145,000	2'-6"	8'-0"	2'-9"	5'-0"	3'-9"	1'-9"	BP15	4.80	8 NO. 7	9 NO. 6
14G	162,000	3'-0"	8'-6"	2'-9"	5'-0"	3'-6"	2'-0"	BP15	6.30	12 NO. 7	9 NO. 7
15G	182,000	3'-0"	9'-0"	3'-0"	5'-0"	3'-6"	2'-0"	BP15	6.90	12 NO. 7	10 NO. 7



SECTION A-A

NOTES:
1. SEE TOWER ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND PART NUMBERS FOR BEARING PLATE & PIER PIN.
2. SEE DRAWING NUMBER B090548 FOR STANDARD FOUNDATION NOTES.
*3. USE MIN. 2'-6" SQ. OR 3'-0" DIA. ROUND PIER WHEN BPC45G OR BPC55G IS USED.
4. VERTICAL REINFORCING STEEL SHALL BE REPLACED WITH STRAIGHT BARS WHEN NO PAD IS REQUIRED.
5. HORIZ. BARS IN CHART REFER ONLY TO THE BARS IN THE FOUNDATION PAD.

FILE NO.
STDPUBLIC

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

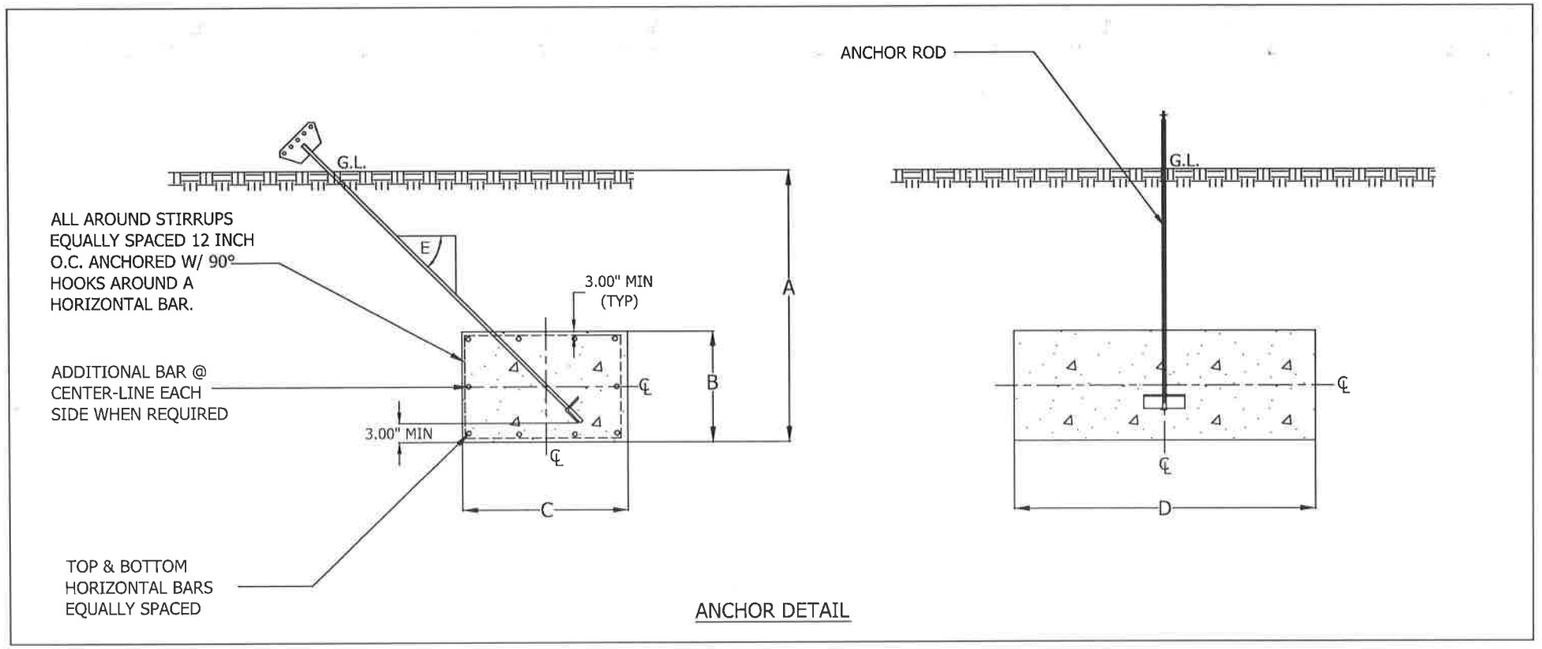
FOUNDATION
BASE PIER FOR REV. G PRESUMPTIVE CLAY

DWN:	CHK'D:	DATE:
FAD	HA	Nov/24/2009

ENG'R: HA

DRAWING NO: B090549

REV: 0



ANCHOR DETAIL

CONCRETE ANCHOR BLOCK DATA FOR ANSI/TIA-222-G PRESUMPTIVE CLAY SOIL								
BLOCK	ANCHOR DIMENSIONS (IN.)				HORIZONTAL BARS QTY./SIZE	STIRRUPS SIZE & SPACING	CONCRETE VOL. (CU. YDS.)	UPLIFT CAPACITY(LBS)	LATERAL CAPACITY(LBS)
	A	B	C	D					
AB1	3'-0"	1'-0"	3'-0"	4'-0"	(8) #5 BARS TOTAL (4) #5 BARS TOP AND BOTTOM LAYERS (0) ADDITIONAL BAR EACH SIDE	#3 @ 12" O.C.	0.44 PER BLOCK 1.3 TOTAL FOR 3	4,800	2,150
AB2	4'-0"	1'-6"	4'-0"	6'-0"	(10) #6 BARS TOTAL (5) #6 BARS TOP AND BOTTOM LAYERS (0) ADDITIONAL BAR EACH SIDE	#3 @ 12" O.C.	1.33 PER BLOCK 4.0 TOTAL FOR 3	12,600	6,480
AB3	6'-0"	1'-6"	3'-0"	6'-0"	(8) #6 BARS TOTAL (4) #6 BARS TOP AND BOTTOM LAYERS (0) ADDITIONAL BAR EACH SIDE	#3 @ 12" O.C.	1.0 PER BLOCK 3.0 TOTAL FOR 3	18,700	10,500
AB4	6'-0"	1'-6"	4'-0"	9'-0"	(10) #6 BARS TOTAL (5) #6 BARS TOP AND BOTTOM LAYERS (0) ADDITIONAL BAR EACH SIDE	#4 @ 12" O.C.	2.0 PER BLOCK 6.0 TOTAL FOR 3	32,500	15,800
AB5	8'-0"	2'-0"	3'-0"	10'-0"	(10) #7 BARS TOTAL (4) #7 BARS TOP AND BOTTOM LAYERS (1) ADDITIONAL BAR EACH SIDE	#4 @ 12" O.C.	2.22 PER BLOCK 6.7 TOTAL FOR 3	43,000	21,000
AB6	8'-0"	2'-0"	4'-0"	10'-0"	(12) #7 BARS TOTAL (5) #7 BARS TOP AND BOTTOM LAYERS (1) ADDITIONAL BAR EACH SIDE	#4 @ 12" O.C.	2.96 PER BLOCK 8.9 TOTAL FOR 3	52,000	26,500

(SEE TOWER ASSEMBLY DRAWING FOR ANCHOR ROD SLOPE 'E'.)

GENERAL NOTES

1. SEE DRAWING NUMBER B090548 FOR STANDARD FOUNDATION NOTES.
2. ALL HORIZONTAL BARS MUST BE CONTINUOUS.
3. DUE TO VARIABLES INVOLVED DURING INSTALLATION, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR BASE AND ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.
4. ADDITIONAL CORROSION PROTECTION MAY BE REQUIRED FOR STEEL GUY ANCHORS IN DIRECT CONTACT WITH SOIL.

FILE NO.
STDPUBLIC

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
1	AB6 ADDED DATE: Dec/21/2009	FAD	HA	HA
2	SLOPE 'E' NOTES CHANGED DATE: Jan/21/2010	fdm	HA	HA
3	UPDATED LAYOUT DATE: Jul/23/2010	FAD	HA	HA

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

FOUNDATION
ANCHOR BLOCK REV. G PRESUMPTIVE CLAY

DWN:	CHK'D:	DATE:
FAD	HA	Nov/24/2009

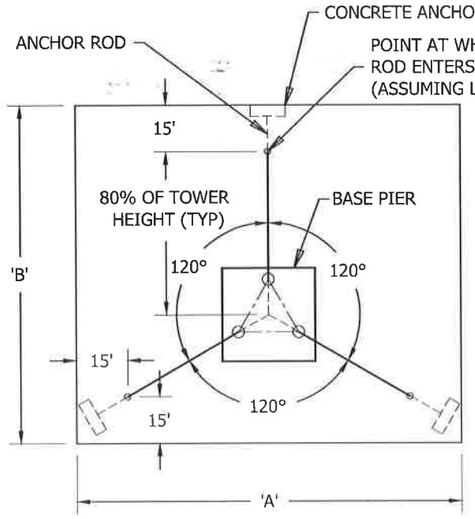
ENG'R: HA

DRAWING NO: B090550

REV: 3

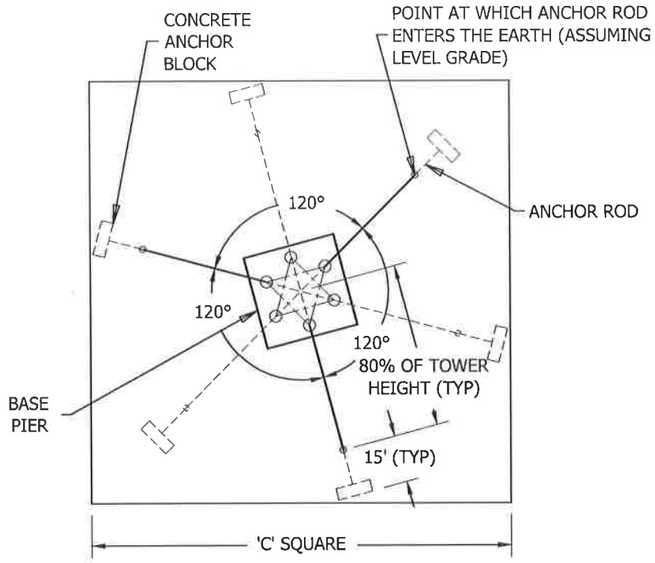
Jul/23/2010 3:50:53 PM

\Erection\



LAYOUT A

THIS IS THE MINIMUM AREA OF LAND REQUIRED. HOWEVER, THIS AREA WILL NOT ALWAYS PERMIT ORIENTING TOWER INTO THE BEST POSITION FOR ANTENNA PATH DIRECTION.



LAYOUT B

THIS IS THE MINUMUM AREA OF LAND REQUIRED TO PERMIT ORIENTING THE TOWER IN ANY POSITION FOR ANTENA PATH DIRECTION.

TOWER HEIGHT	LAYOUT A			LAYOUT B	
	ACRES	A	B	ACRES	C
20'	0.08	60'	55'	0.10	65'
30'	0.12	75'	70'	0.15	80'
40'	0.17	90'	80'	0.21	95'
50'	0.21	100'	90'	0.28	110'
60'	0.28	115'	105'	0.39	130'
70'	0.35	130'	115'	0.48	145'
80'	0.43	145'	130'	0.59	160'
90'	0.50	155'	140'	0.70	175'
100'	0.59	170'	150'	0.83	190'
110'	0.70	185'	165'	1.01	210'
120'	0.80	200'	175'	1.16	225'
130'	0.94	215'	190'	1.32	240'
140'	1.04	225'	200'	1.49	255'
150'	1.16	240'	210'	1.67	270'
160'	1.32	255'	225'	1.93	290'
170'	1.46	270'	235'	2.14	305'
180'	1.64	285'	250'	2.35	320'
190'	1.76	295'	260'	2.58	335'
200'	1.92	310'	270'	2.81	350'
210'	2.13	325'	285'	3.14	370'
220'	2.31	340'	295'	3.40	385'
230'	2.50	350'	310'	3.67	400'
240'	2.68	365'	320'	3.95	415'
250'	2.88	380'	330'	4.24	430'
260'	3.13	395'	345'	4.65	450'
270'	3.34	410'	355'	4.96	465'
280'	3.57	420'	370'	5.29	480'
290'	3.80	435'	380'	5.63	495'
300'	4.03	450'	390'	5.97	510'
310'	4.33	465'	405'	6.45	530'
320'	4.53	475'	415'	6.82	545'
330'	4.84	490'	430'	7.20	560'
340'	5.10	505'	440'	7.59	575'
350'	5.37	520'	450'	8.00	590'
360'	5.71	535'	465'	8.54	610'
370'	5.94	545'	475'	8.97	625'
380'	6.30	560'	490'	9.40	640'
390'	6.60	575'	500'	9.85	655'
400'	6.91	590'	510'	10.31	670'
410'	7.23	600'	525'	10.93	690'
420'	7.55	615'	535'	11.41	705'
430'	7.96	630'	550'	11.90	720'
440'	8.29	645'	560'	12.40	735'
450'	8.64	660'	570'	12.91	750'
460'	9.00	670'	585'	13.61	770'
470'	9.36	685'	595'	14.15	785'
480'	9.80	700'	610'	14.69	800'
490'	10.18	715'	620'	15.25	815'
500'	10.49	725'	630'	15.81	830'

TOWER HEIGHT	LAYOUT A			LAYOUT B	
	ACRES	A	B	ACRES	C
550'	12.59	795'	690'	19.01	910'
600'	14.89	865'	750'	22.50	990'
650'	17.39	935'	810'	26.28	1070'
700'	19.97	1000'	870'	30.36	1150'
750'	22.85	1070'	930'	34.73	1230'
800'	25.91	1140'	990'	39.40	1310'
850'	29.17	1210'	1050'	44.35	1390'
900'	32.62	1280'	1110'	49.61	1470'
950'	36.26	1350'	1170'	55.15	1550'
1000'	40.10	1420'	1230'	61.00	1630'
1050'	43.98	1485'	1290'	67.13	1710'
1100'	48.19	1555'	1350'	73.56	1790'
1150'	52.60	1625'	1410'	80.28	1870'
1200'	57.20	1695'	1470'	87.30	1950'

GENERAL NOTES

1. DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CUSTOMER OR INSTALLER TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER AND ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT THE INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

2. FOR RESTRICTED SITES, CUSTOM DESIGNS WITH STRONGER MASTS AND LARGER GUYS MAY BE PROVIDED BY REDUCING THE GUY RADIUS FROM 80% TO 40% OF THE TOWER HEIGHT.

FILE NO.
Standard-80

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
4	REDRAWN INTO AUTOCAD & ADDED NOTE #2 DATE: Mar/22/2006	JDA	JDM	HA

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

GUY ANCHOR
LAND REQUIREMENT DETAIL

DWN:	CHK'D:	DATE:
MSR	OH	Apr/15/1975

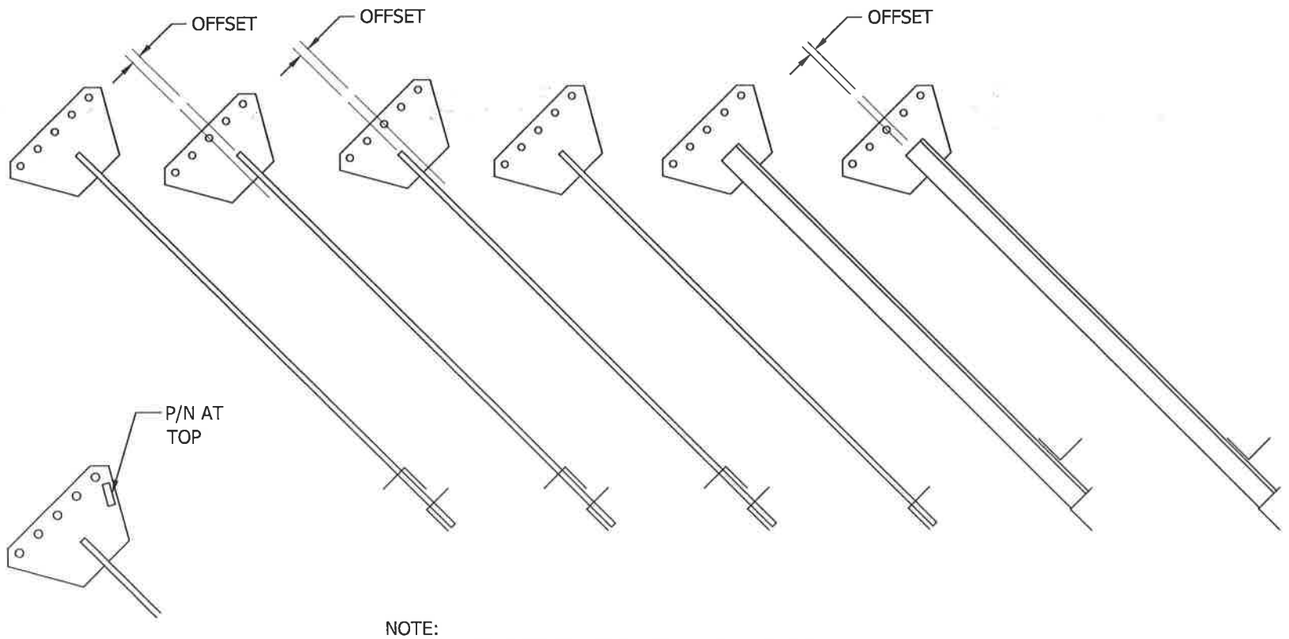
ENG'R: CW

DRAWING NO: C640531

REV: 4

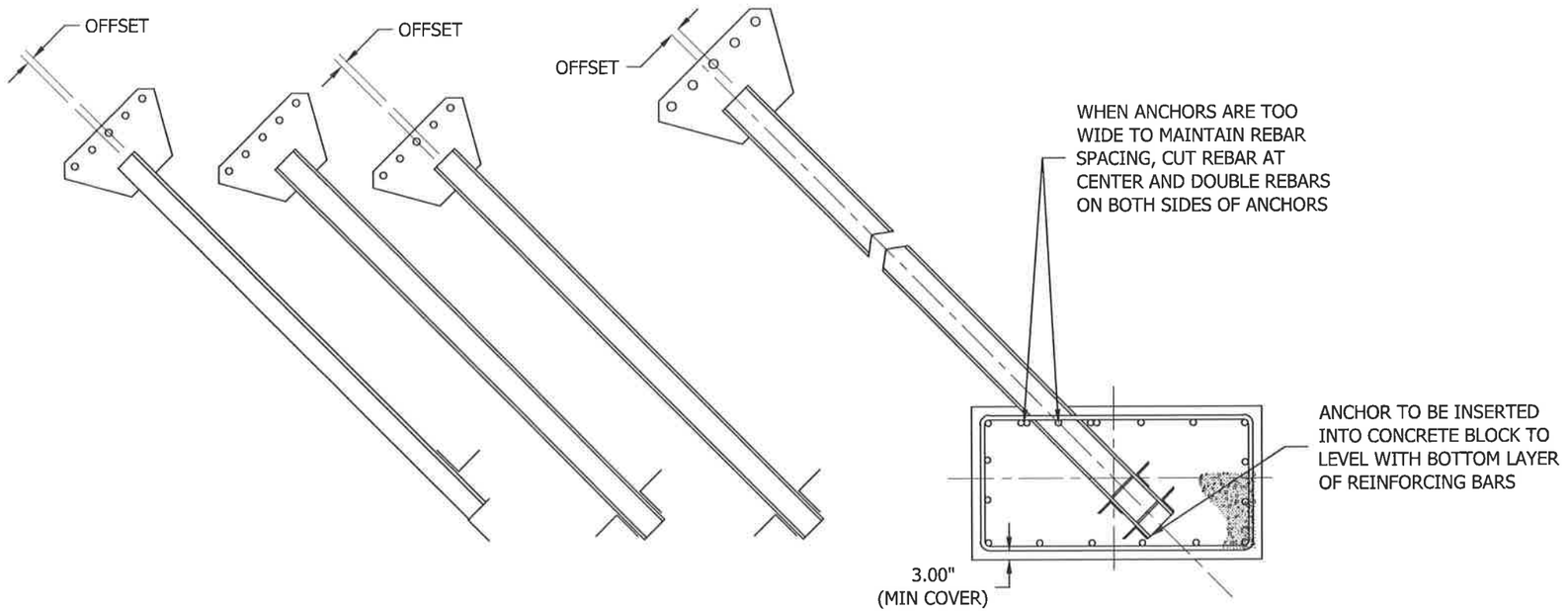
Jan/15/2007 11:29:31 AM

\Erection\



TYPICAL DETAIL

NOTE:
INSTALL ANCHORS IN BLOCKS WITH EMBEDMENT ANGLES ORIENTED AS SHOWN AND WITH P/N AT TOP AS SHOWN.



Oct/15/2010 11:34:30 AM

\\Erection\

FILE NO.
Standard-80

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
2	REDRAWN IN AUTOCAD DATE: Mar/22/2006	M.F	JDM	H.A
3	ADDED ANCHOR INSERTION NOTE TO BLOCK DETAIL DATE: Oct/15/2010	JWS	H.A	HA

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

ANCHOR INSTALLATION DETAIL
ANCHOR INSTALLATION DETAIL

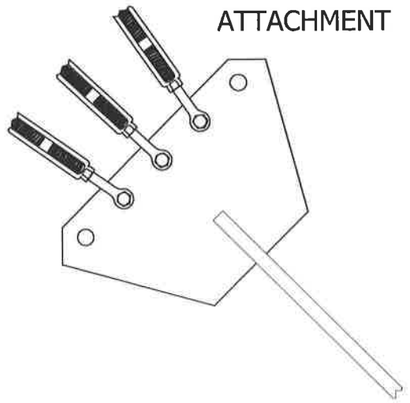
DWN:	CHK'D:	DATE:
B_N	WDU	Mar/22/1995

ENG'R: TWS

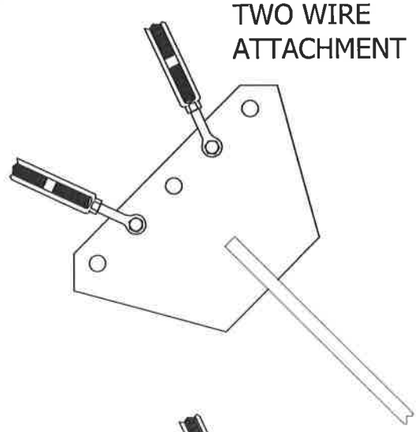
DRAWING NO: A951409

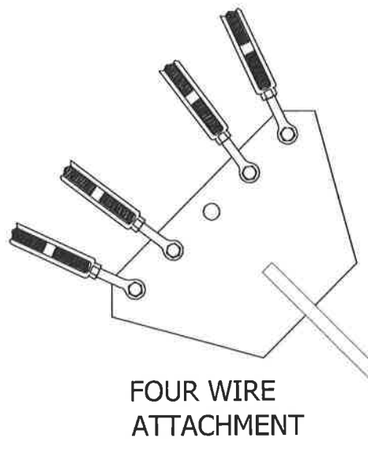
REV: 3

THREE WIRE ATTACHMENT



TWO WIRE ATTACHMENT

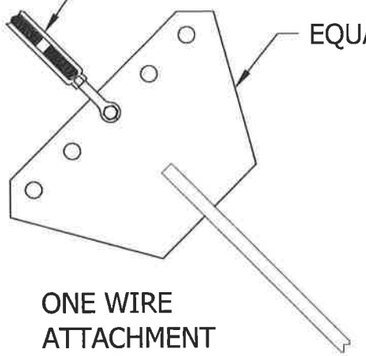




FOUR WIRE ATTACHMENT

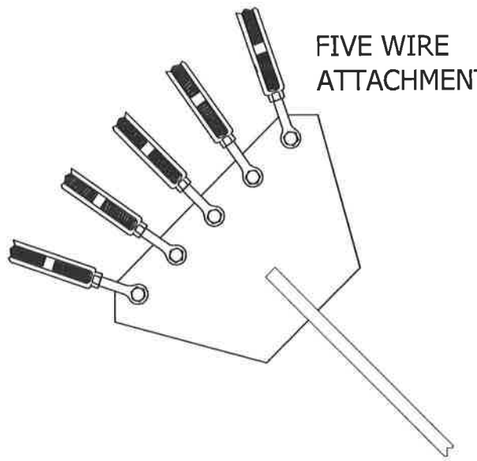
TURNBUCKLE (TYP)

EQUALIZER (TYP)



ONE WIRE ATTACHMENT

FIVE WIRE ATTACHMENT



NOTE: SEE TOWER ASSEMBLY DRAWING FOR SIZE AND QTY OF TURNBUCKLES REQUIRED.

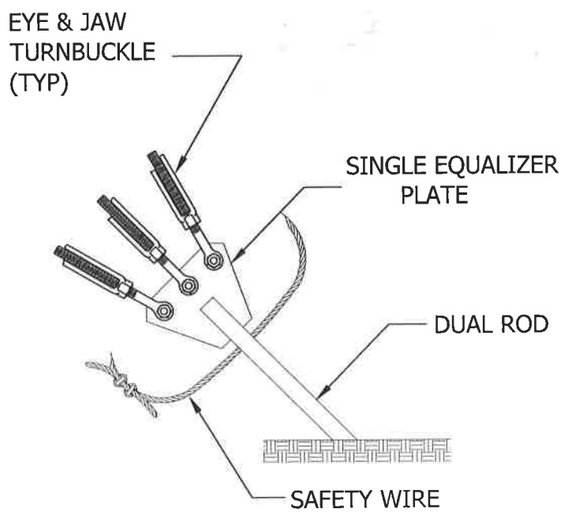
FILE NO. Standard-80				
REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
2	REDRAWN TO AUTOCAD DATE: Jul/19/2006	JDA	JDM	H.A

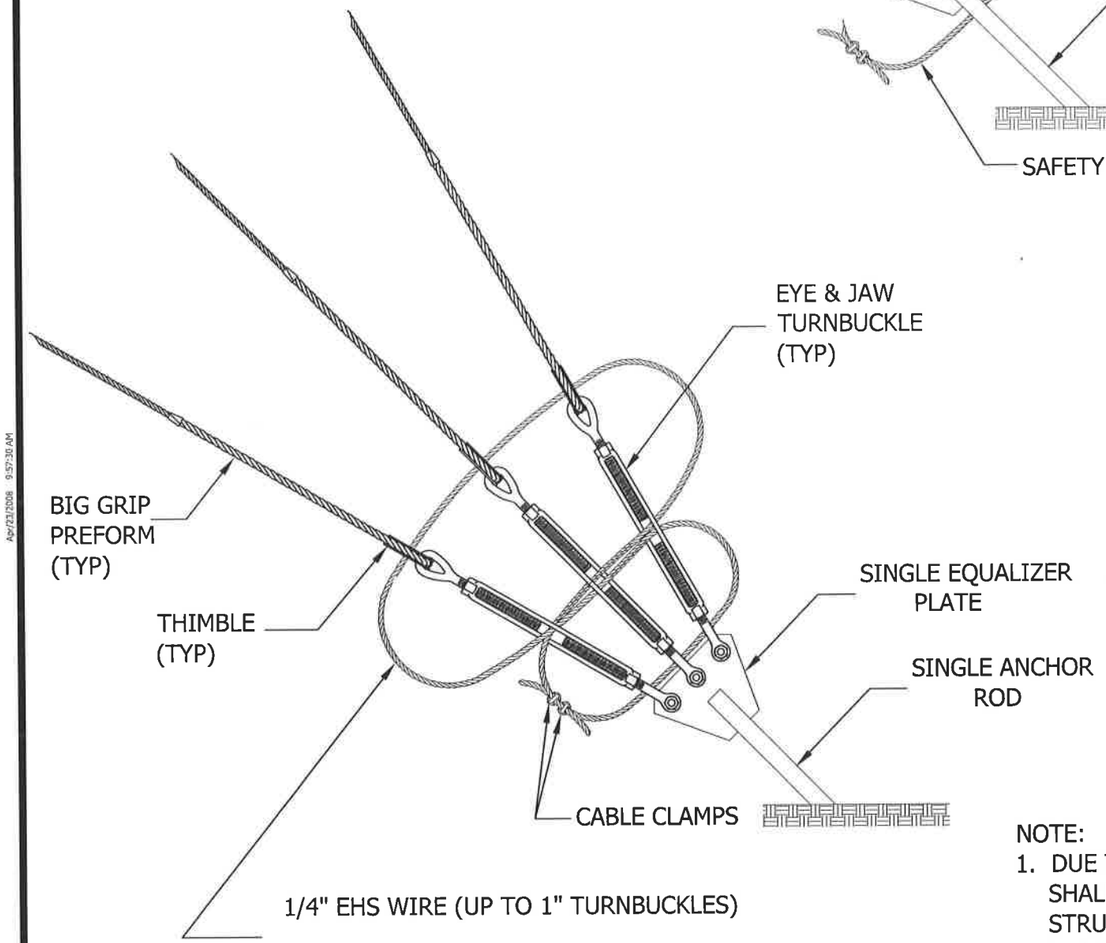
DWG REFERENCE

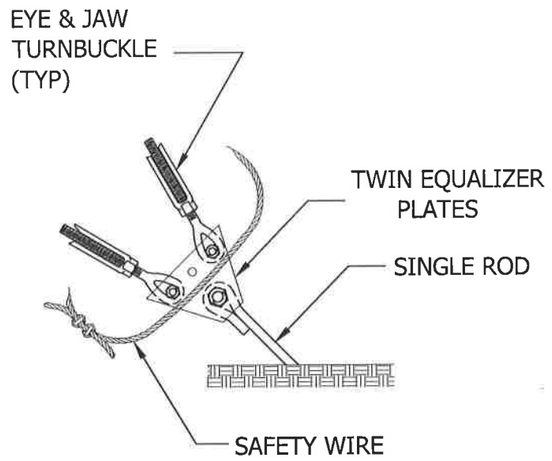
ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

ANCHOR ATTACHMENT DETAIL

DWN: AJG	CHK'D: WDU	DATE: Jun/23/1982
ENG'R: RAM		
DRAWING NO: B820511		REV: 2







NOTE:

1. DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER AND ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICES OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

FILE NO.
Standard-80

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
7	REDRAWN IN AUTOCAD DATE: Mar/17/2006	JDM	M.F	H.A
8	REMOVED NOTE #2 DATE: Apr/03/2006	JDM	M.F	HA

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

TURNBUCKLE SAFETY METHOD

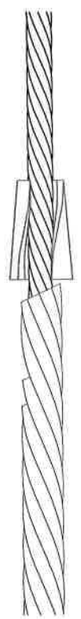
DWN:	CHK'D:	DATE:
KTL	O.H	Mar/04/1968

ENG'R: TWS

DRAWING NO: B680324 REV: 8

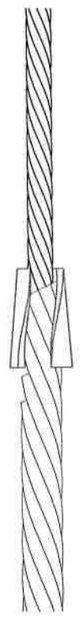
Apr/23/2006 9:57:30 AM
\Erection\

TO ACHIEVE MAXIMUM COVERAGE WITH THE END SLEEVE, THE APPLICATION SHOULD BE CONDUCTED IN THE FOLLOWING MANNER



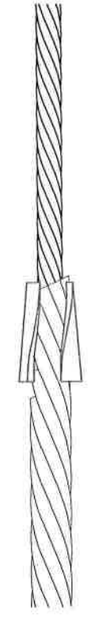
1

PLACE THE SLOT SIDE OF THE END SLEEVE OVER THE LONG LEG OF THE DEAD END



2

DRIVE THE SLEEVE DOWNWARD UNTIL THE RODS OF THE SHORT LEG ARE COMPLETELY COVERED



3

THE RODS OF THE LONG LEG SHOULD BE EVEN WITH, OR MAY EXTEND ABOVE, THE TOP EDGE OF THE SLEEVE

BE SURE TO SELECT THE PROPER SIZE END SLEEVE

Mar/17/2006 9:07:10 AM

\Erection\

FILE NO.
Standard-80

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
3	REDRAWN IN AUTOCAD DATE: Mar/17/2006	JDM	M.F	H.A

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

SPLICE CONNECTION FOR BIG GRIP & END SLEEVE

DWN:	CHK'D:	DATE:
H.A	RAM	Jun/09/1970

ENG'R: TWS

DRAWING NO: B700607

REV: 3

WIRE SIZE	ANCHOR ROD	TURNBUCKLE	THIMBLE
3/16 EHS	GAR30	5/8TBE&J	5/16THH
	GAC303,305	3/8TBE&E	5/16THH
	GAC3455	1/2TBE&J	5/16THH
	GAC5655	5/8TBE&J	5/16THH
1/4 EHS	GAR30	5/8TBE&J	3/8THH
	GAC303,305	1/2TBE&E	3/8THH
	GAC3455	1/2TBE&J	3/8THH
	GAC5655	5/8TBE&J	3/8THH
5/16 EHS	GAR30	5/8TBE&J	7/16THH
	GAC303,305	5/8TBE&J	7/16THH
	GAC3455	5/8TBE&J	7/16THH
	GAC5655	5/8TBE&J	7/16THH
3/8 EHS	GAR30	5/8TBE&J	1/2THH
	GAC3455	5/8TBE&J	1/2THH
	GAC5655	5/8TBE&J	1/2THH

FILE NO.
Standard-90

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
3	REDRAWN INTO AUTOCAD DATE: Apr/04/2006	M.F	JDM	HA
4	REMOVED NOTATION DATE: Sep/13/2007	J.K	JDM	HA

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

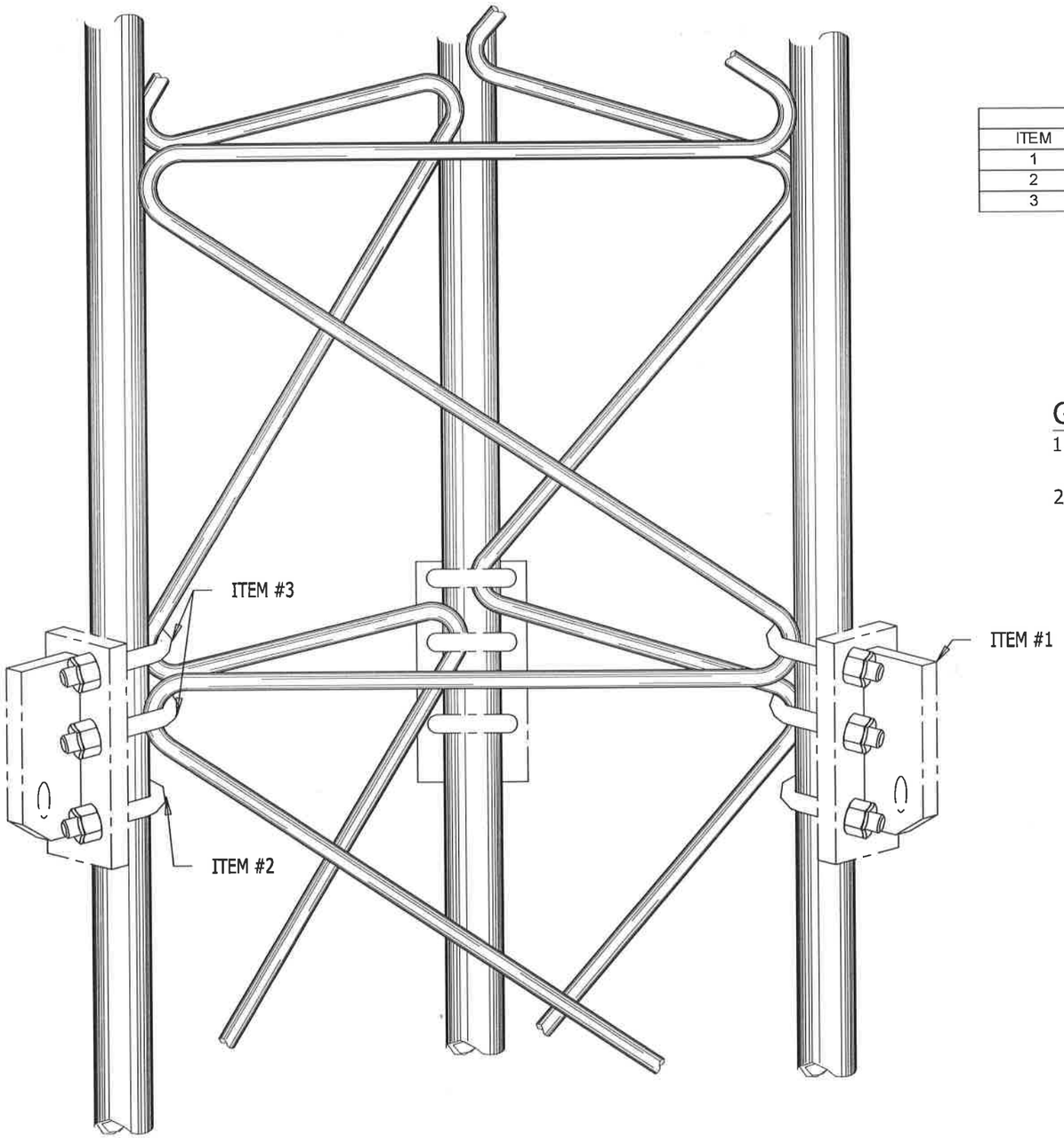
GUY
WIRE HARDWARE KIT

DWN:	CHK'D:	DATE:
WHW	W.M	Sep/30/1987

ENG'R: RDM

DRAWING NO: A871382 REV: 4

Sep/17/2007 2:04:24 PM
\Erection\



ASSEMBLY P/N GA65GD				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	3	B65GD	GUY BRACKET	C870709
2	3	JR810A	1/2" U-BOLT ASSY	B651028
3	6	JR65SA	1/2" U-BOLT ASSY	B710909

GENERAL NOTES

1. THE 2 UPPERMOST U-BOLTS MUST INTERCONNECT WITH ZIG-ZAG BRACES AS SHOWN.
2. MAXIMUM THIMBLE SIZE = $\frac{9}{16}$" HVY.

MAX. REV 'F' VERTICAL PULL	MAX GUY WIRE SIZE
5.2 KIPS	3/8" EHS

MAX. REV 'G' VERTICAL PULL	MAX GUY WIRE SIZE
9.4 KIPS	3/8" EHS

FILE NO.
Standard-65G

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
5	UPDATED PER ENGINEERING REQUEST DATE: June/14/2011	CEJ	JDM	HA

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

GUY ASSY 65G

DWN:	CHK'D:	DATE:
B_F	CW	Sep/22/1987

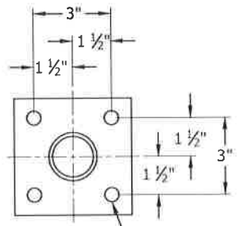
ENG'R: RAM

DRAWING NO: B870900 REV: 5

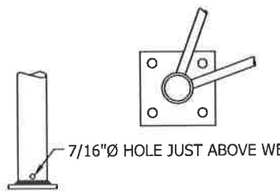
May/09/2011 10:06:27 AM
\Erection\

GENERAL NOTES

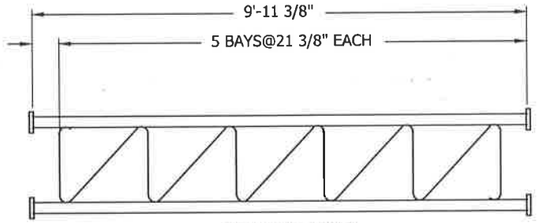
1. ALL SECTIONS ARE HOT DIP GALVANIZED AFTER FABRICATION.
2. ALL SECTIONS CAN BE INSTALLED WITH EITHER END UP, EXCEPT NO. 65TGH.
3. 12-5/8" X 2 1/2" BOLTS REQUIRED PER SECTION, EXCEPT NO. 65TGH.
4. FOR FABRICATION DETAIL SECTION NO. 65GH & 65TGH SEE DWG. NO. B780833 (DWG. FOR SHOP USE ONLY).
5. FOR FABRICATION DETAIL SECTION NO. 6520GH & 6520GH2 SEE DWG. NO. C781137 (DWG. FOR SHOP USE ONLY).



DETAIL A



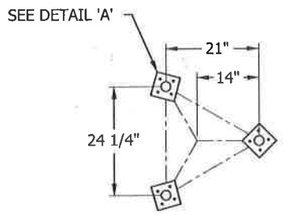
DRAIN HOLE DETAIL



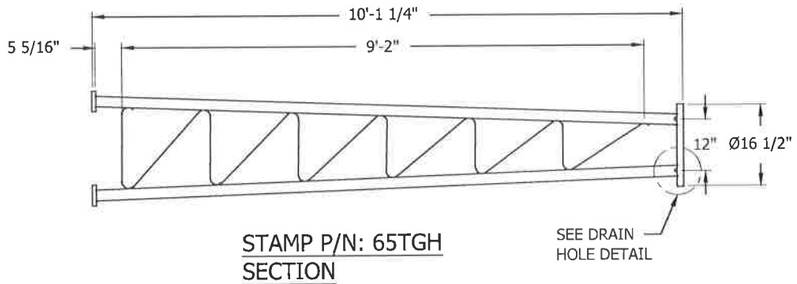
STAMP P/N: KS178

ASSY NO: 65GH SECTION

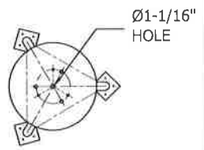
CONSISTS OF: (1) KS178
(1) 65JBK



NOTE: THIS VIEW TYPICAL ALL SECTION EXCEPT AS SHOWN



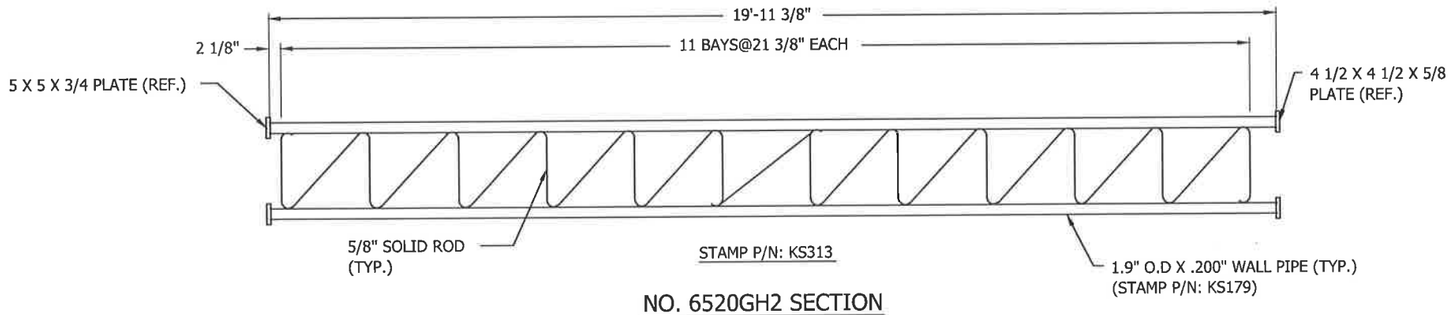
STAMP P/N: 65TGH SECTION



STAMP P/N: KS179

NO. 6520GH SECTION

CONSISTS OF: (1) KS179
(1) 65JBK



STAMP P/N: KS313

NO. 6520GH2 SECTION

CONSISTS OF: (1) KS313
(1) 65JBK

FILE NO.
Standard-65G

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
6	REDRAWN INTO AUTOCAD DATE: Aug/24/2006	M.F	JDM	HA
7	REVISED 65TGH SECTION DATE: Jul/27/2007	JDA	KTL	HA

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

SECTION ASSEMBLY
65G SECTION

DWN:	CHK'D:	DATE:
J_D	KTL	Oct/30/1980

ENG'R: TWS

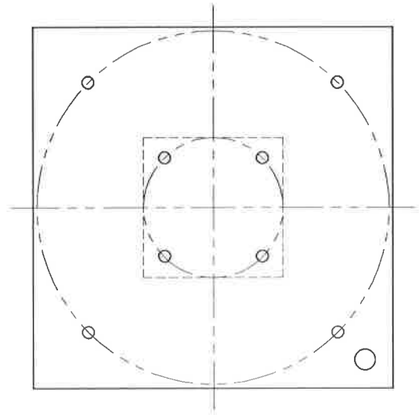
DRAWING NO: C781100

REV: 7

Jan/18/2008 3:04:40 PM

\Erection\

ASSEMBLY NUMBER	BEACON PLATE		CAP PLATE		BOLT ASSEMBLY		
	PART NO.	QTY.	PART NO.	QTY.	SIZE	PT.NO.	QTY.
APL1W2WA	APL1W2W	1	-----	---	3/8X1-1/4	210005GA	6
APL3WNA	APL3WN	1	-----	---	3/8X1-1/4	210005GA	6
APL4A	APL4	1	-----	---	1/2X1-1/2	210018GA	4
APL4HA	APL4H	1	CP4H	2	5/8X1-3/4	210030GA	8
APL5A	APL5	1	CP50	2	5/8 X 2	210031GA	8
APL6A	APL6	1	CP60	2	3/4 X 2	210047GA	8
APL7A	APL7	1	CP70	2	7/8 X 3	210062GA	8
APL95A	APL95	1	CP95	2	1 X 3	210067GA	8
APL85A	APL8.5	1	-----	---	7/8 X 3	210062GA	4
APL78A	APL7.8	1	-----	---	1 X 3-1/4	210104GA	4
APL788A	APL788	1	-----	---	3/4 X 3	210051GA	4
APL6A2	APL6	1	-----	---	3/4X2-3/4	210050GA	4

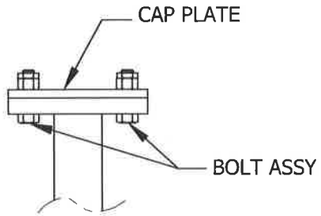


BEACON PLATE INSTALLATION DETAIL
PLAN VIEW

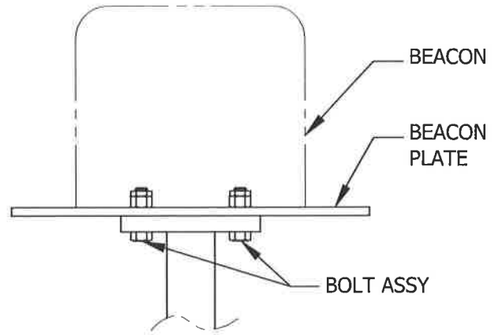
REFERENCE DRAWINGS

* (FAB DWG. FOR SHOP USE ONLY)

* 1. FOR BEACON PLATE FABRICATION SEE DWG. NO. SK730369.
* 2. FOR CAP PLATE FABRICATION SEE DWG. NO. B760639.
  3. FOR BOLT ASSEMBLY SEE DWG. NO. C770404.
* 4. FOR APL95 BEACON PLATE FABRICATION SEE DWG. NO. B800450.
* 5. FOR APL1W2W FABRICATION SEE DWG. NO. SK740429.
* 6. FOR APL3WN FABRICATION SEE DWG. NO. A730902.



CAP PLATE INSTALLATION DETAIL



BEACON PLATE INSTALLATION DETAIL
ELEVATION VIEW

FILE NO.
Standard-SSV

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
12	UPDATED TO AUTOCAD DATE: Jun/04/2006	JDM	JWS	H.A
13	ADDED DETAILS DATE: Jan/18/2007	M.F	JDM	H.A

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
TOLL FREE 800-727-ROHN

LIGHTING
BEACON PLATE ASSY

DWN:	CHK'D:	DATE:
B_F	KTL	Oct/19/1982

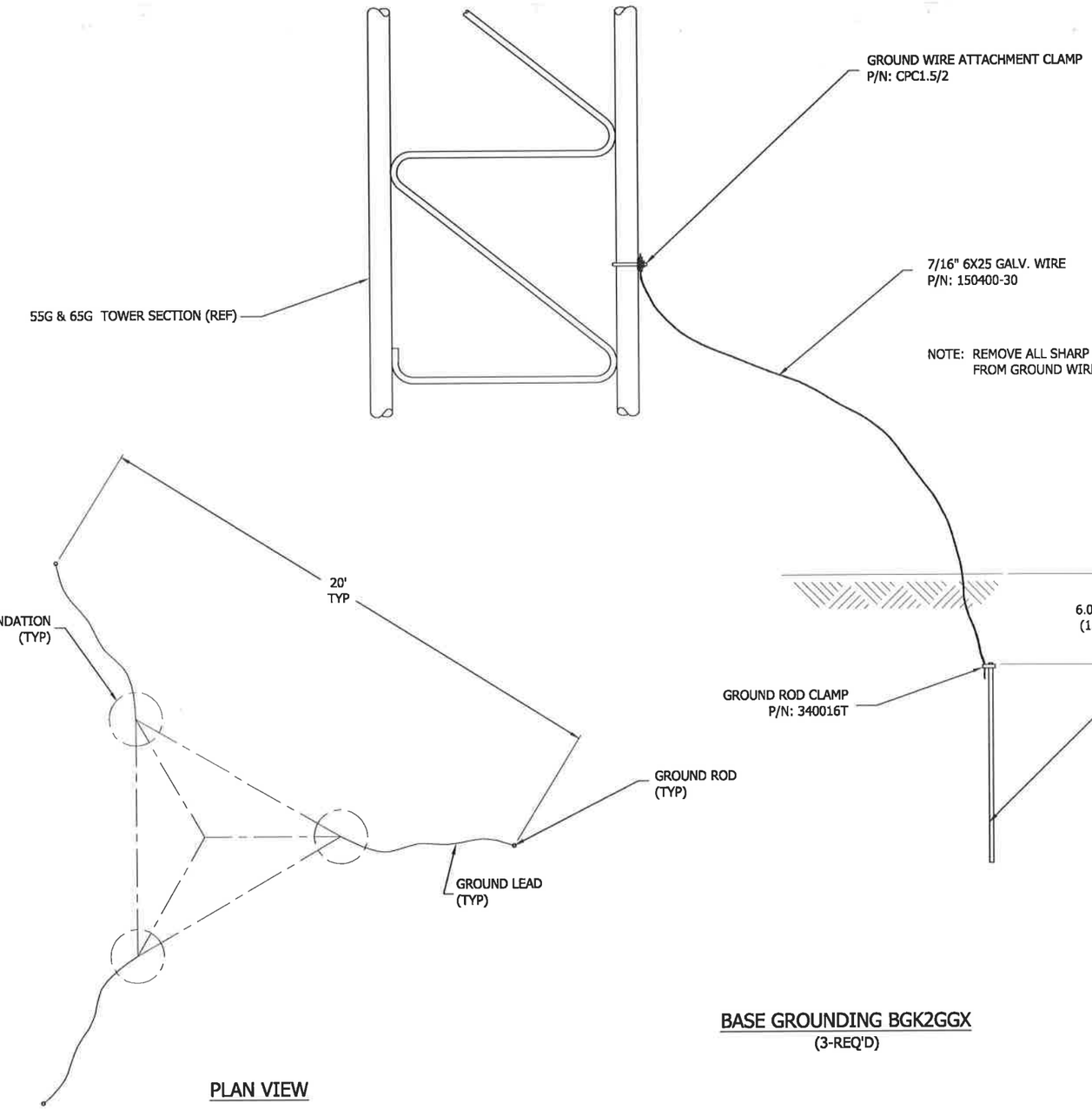
ENG'R: TWS

DRAWING NO: B760624

REV: 13

Jan/22/2007 8:30:25 AM

\Erection\



PLAN VIEW

BASE GROUNDING BGK2GGX
(3-REQ'D)

FILE NO.

REVISIONS

REV	DESCRIPTION	DWN	CHK	APP
2	UPDATE BOM AND STANDARDS DATE: 8/18/11	JEC	JDM	HA

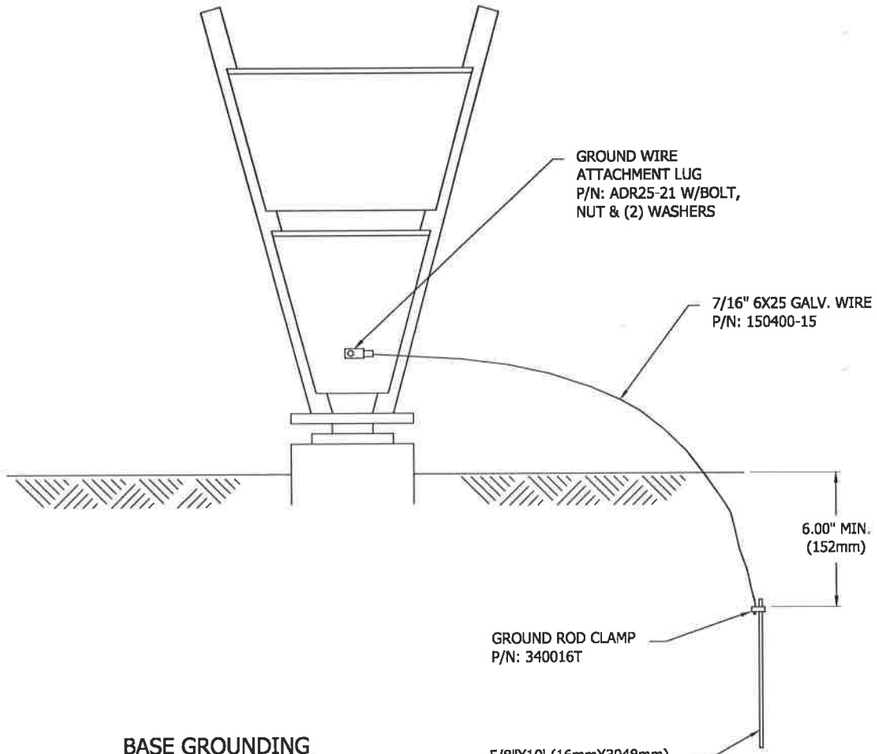
ROHN PRODUCTS
PO BOX 5999
PEORIA, IL 61601-5999
TOLL FREE 800-727-ROHN

REV. G FOR MODEL 55 & 65 TOWERS (GALV)

DWN:	CHK'D:	DATE:
ABS	KTL	SEP/15/2008

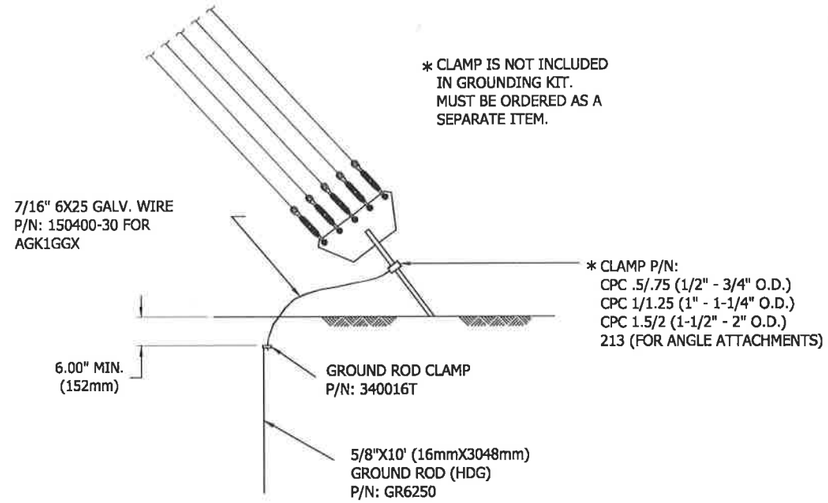
ENG'R:	SHEET #:
HA	1 OF 1

DRAWING NO:	REV:
B080912	2



BASE GROUNDING
BGK1GGX
(3-REQ'D)

NOTE: REMOVE ALL SHARP BENDS
FROM GROUND WIRE.



GUY WIRE GROUNDING - AGK1GGX
(1-REQ'D PER ANCHOR RADIUS)

APPLICATION
80 & 90 TAPERED BASES

FILE NO.

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
3	UPDATE BOM AND STANDARDS DATE: 8/17/11	JEC	KTL	HA

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

REV. G G80 & 90 TOWERS

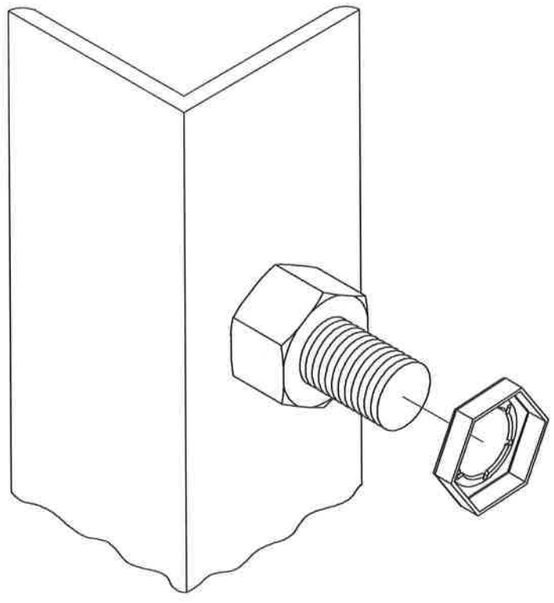
DWN:	CHK'D:	DATE:
JK	JDM	DEC/27/2007
ENG'R: DWG	SHEET #: 1 OF 1	
DRAWING NO: B070996		REV: 3

ASSEMBLY BOLT INSTALLATION

1. UNLESS OTHERWISE SPECIFIED, ASSEMBLY BOLTS AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION (MEMBERS IN FIRM CONTACT) AND MUST INCLUDE A NUT LOCKING DEVICE. NO MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED. WHEN LOCK WASHERS ARE PROVIDED AS A NUT LOCKING DEVICE, REPLACE ANY DAMAGED WASHERS DUE TO OVER TIGHTENING.
2. WASHERS ARE TO BE INSTALLED OVER SLOTTED HOLES.

PAL NUT INSTALLATION

1. PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT (SEE PICTURE). PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS OR LOCK WASHERS ARE PROVIDED.



FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
7	CHANGE NOTATION. DATE: 01/11/12	JEC	JDM	HA

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

BOLT ASSEMBLY INSTALLATION

DWN:	CHK'D:	DATE:
OH	GHB	07/05/79

ENG'R:	SHEET #:
TWS	1 OF 1

DRAWING NO:	REV:
A790135	7