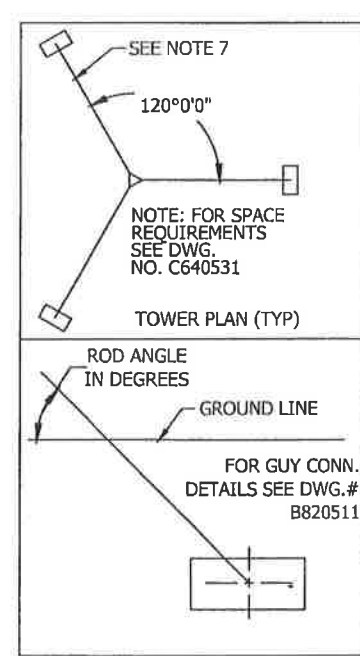


**45G TOWER GUYING DETAILS  
40' - 170'  
90MPH 3-SECOND GUST WIND SPEED  
NO ICE (REV G)  
70 MPH FASTEST MILE WIND SPEED  
NO ICE (REV F)**

**GENERAL NOTES:**

- TOWER DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA-222-F & ANSI/TIA-222-G, CLASS I STRUCTURES.
- 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).
- EFFECTIVE PROJ. AREAS MUST NOT EXCEED THE AREAS SHOWN.
- ANTENNAS AND MOUNTS ARE ASSUMED SYMMETRICALLY PLACED AT THE TOWER TOP.
- DESIGNS ASSUME TWO 1/2" DIA. LINES ON EACH TOWER FACE.
- FOR GUY HARDWARE INSTALLATION DETAILS, SEE DWG. A871382.
- ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.
- 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.
- DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
- TOWER ERECTION AND DISMANTLING MUST BE DONE BY QUALIFIED AND EXPERIENCED PERSONNEL.
- TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING, MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.
- INSTALL WARNING PLATE (P/N: ACWS) IN A HIGHLY VISIBLE LOCATION.
- ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- EXTRA CABLE CLAMPS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. B680324 LATEST REVISION.
- PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
- TOLERANCE ON TOWER STEEL IS EQUAL TO PLUS 1% AND MINUS 1/2%.
- 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.
- ANCHOR RODS CORROSION PROTECTION METHODS TO BE PROVIDED BY OTHERS.



TOWER HT.	BASE PIER (DWG: B090549)		ANCHOR DATA (DWG: B090550)	
	NO.	BLOCK NO.	ROD NO.	ROD ANGLE
40'	CB1G	AB2	GAC3455TOP	45
50'	CB1G	AB2	GAC3455TOP	46
60'	CB1G	AB2	GAC3455TOP	43
70'	CB1G	AB2	GAC3455TOP	43
80'	CB1G	AB2	GAC3455TOP	41
90'	CB1G	AB2	GAC3455TOP	42
100'	CB1G	AB2	GAC3455TOP	42
110'	CB1G	AB2	GAC3455TOP	40
120'	CB1G	AB2	GAC3455TOP	39
130'	CB1G	AB2	GAC3455TOP	40
140'	CB1G	AB2	GAC3455TOP	39
150'	CB1G	AB2	GAC3455TOP	38
160'	CB1G	AB2	GAC3455TOP	37
170'	CB1G	AB2	GAC3455TOP	38

FILE NO. **Standard-45G**

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
1	REVISED NOTE #5 FROM "ONE 1/2" DIA LINE" TO "TWO 1/2" DIA LINES" DATE: May/24/2010	JWS	KTL	HA
2	REVISED ANCHOR BLOCK # FOR 40'-70' ELEVATIONS FROM AB1 TO AB2 DATE: Jun/03/2010	JWS	KTL	HA

DWG REFERENCE

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**SECTION ASSEMBLY  
45G/90MPH 3-SECOND GUST/NO ICE**

DWN: JWS	CHK'D: KTL	DATE: Feb/09/2010
ENG'R: HA		
DRAWING NO: DWG-0105-1	REV: 2	

Jun 04/2010 1:03:49 PM

**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.

FILE NO. <b>Standard-SSV</b>				
REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
8	REDRAWN TO AUTOCAD DATE: Jul/17/2006	JDA	JDM	H.A
DWG REFERENCE				
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FOUNDATION & ANCHOR TOLERANCE				
DWN:	CSR	CHK'D:	KTL	DATE:
ENG'R:	XK			Sep/25/1987
DRAWING NO:	A810214			REV:
				8

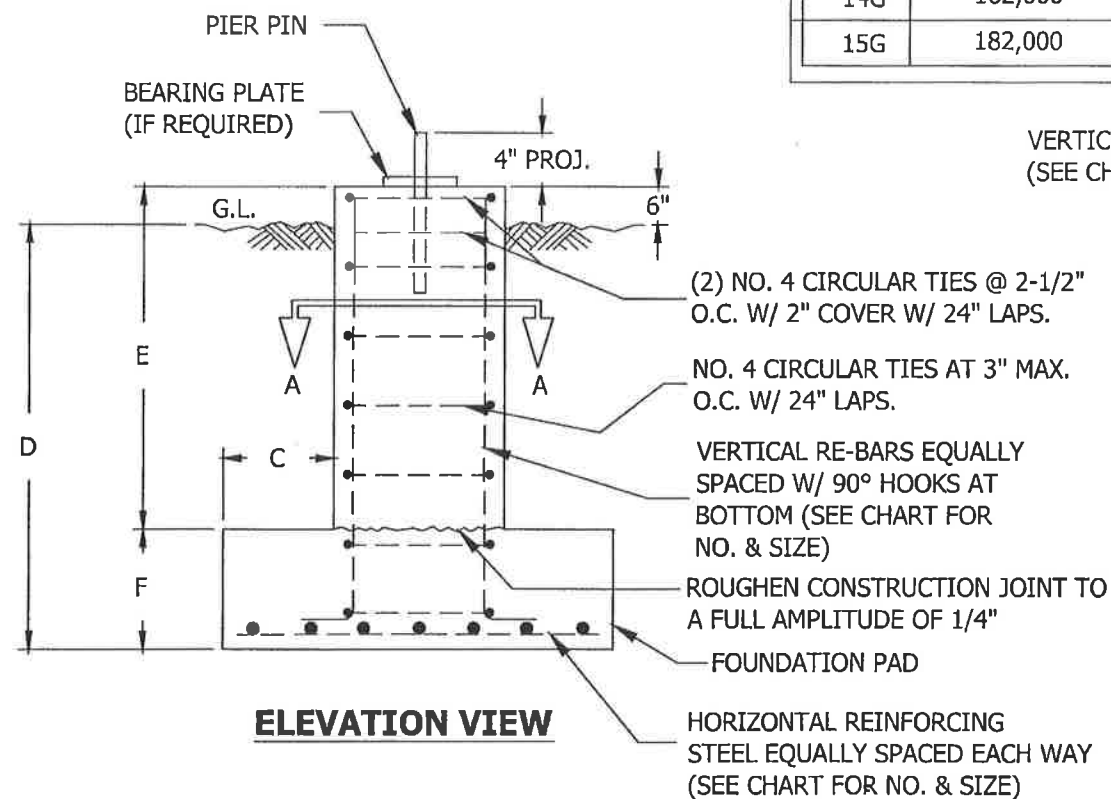
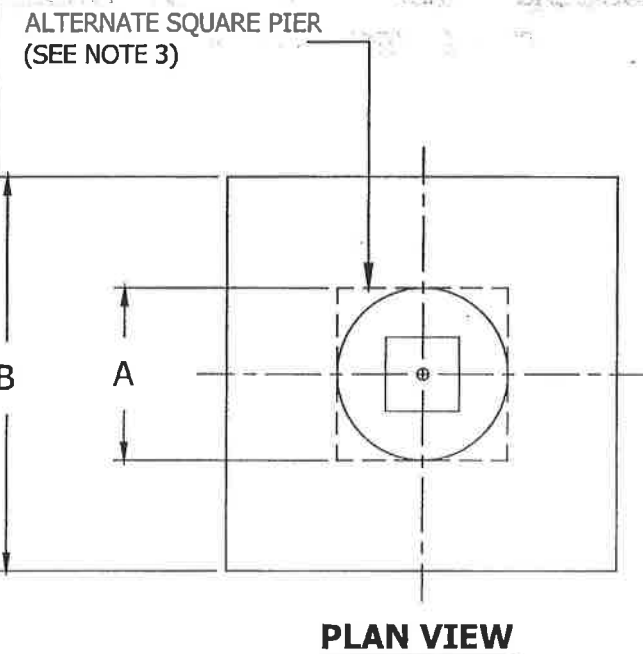
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1/25/2006

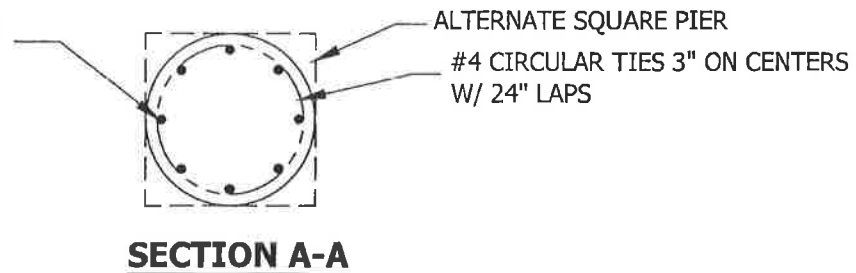
FILE NO.	STDPUBLIC		
REVISIONS			
REV.	DESCRIPTION	DWN	CHK APP

**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



VERTICAL BARS EQUALLY SPACED (SEE CHART FOR NO. & SIZE)



- NOTES:
- SEE TOWER ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND PART NUMBERS FOR BEARING PLATE & PIER PIN.
  - 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.
  - VERTICAL REINFORCING STEEL SHALL BE REPLACED WITH STRAIGHT BARS WHEN NO PAD IS REQUIRED.
  - HORIZ. BARS IN CHART REFER ONLY TO THE BARS IN THE FOUNDATION PAD.

DWG REFERENCE

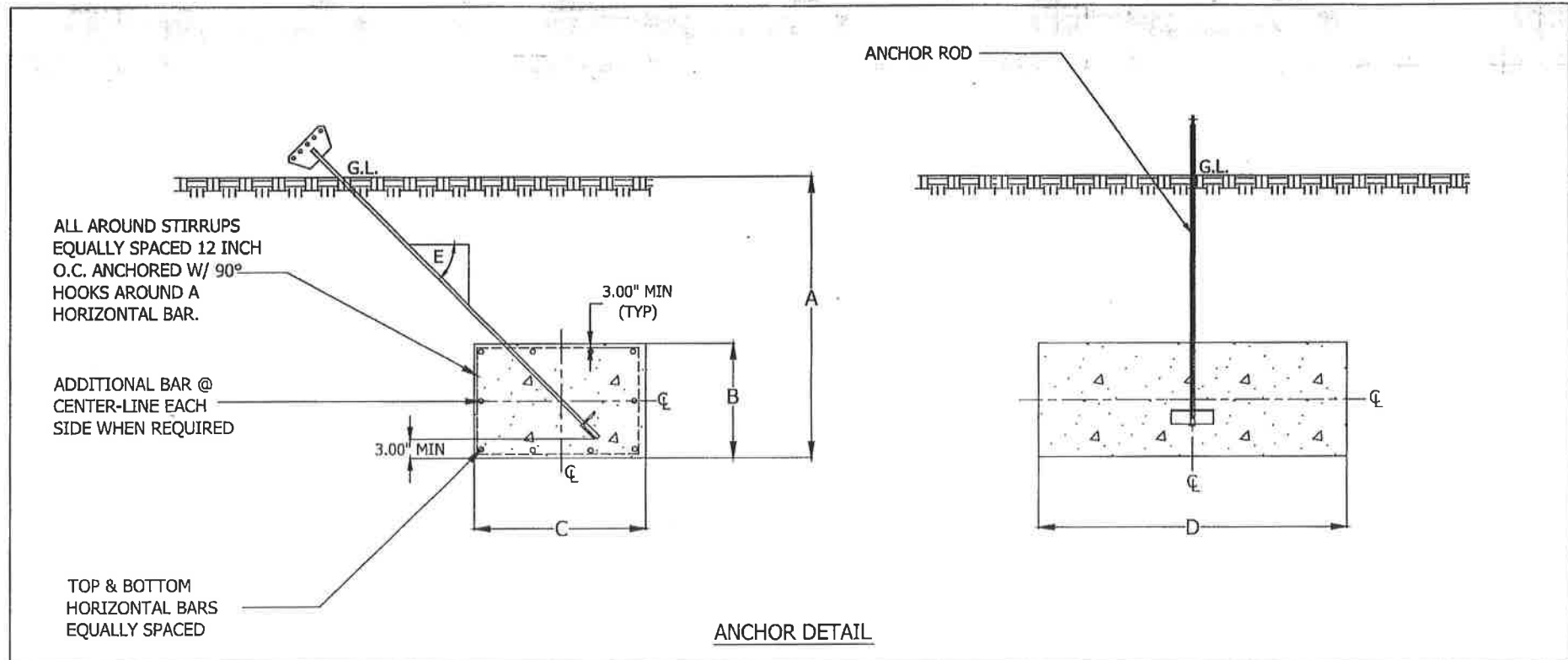



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FOUNDATION  
BASE PIER FOR REV. G PRESUMPTIVE CLAY

DWN:	FAD	CHK'D:	HA	DATE:	Nov/24/2009
ENG'R:	HA				
DRAWING NO:	B090549			REV:	0




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



  
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**FOUNDATION**  
**ANCHOR BLOCK REV. G PRESUMPTIVE CLAY**

DWN: FAD	CHK'D: HA	DATE: Nov/24/2009
ENGR: HA		
DRAWING NO: B090550	REV: 3	

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**

- SEE DRAWING NUMBER B090548 FOR STANDARD FOUNDATION NOTES.
- ALL HORIZONTAL BARS MUST BE CONTINUOUS.
- 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.
- ADDITIONAL CORROSION PROTECTION MAY BE REQUIRED FOR STEEL GUY ANCHORS IN DIRECT CONTACT WITH SOIL.

JUL/23/2010 3:55:33 PM  
 B090550

**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/ft <sup>3</sup> ) [kN/m <sup>3</sup> ]	C (psf) [kPa]	Ultimate Bearing (psf) [kPa]		Ultimate Skin Friction (psf) [kPa]	k (pcf) [kN/m <sup>3</sup> ]	E <sub>so</sub>
				Shallow Fnds.	Deep Fnds.			
8 [26]	0	110 [17]	1000 [48]	5000 [240]	9000 [431]	500 [24]	150 [41,000]	0.01

- 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.
- A SITE-SPECIFIC INVESTIGATION IS REQUIRED FOR CLASS III STRUCTURES IN ACCORDANCE WITH ANSI/TIA-222-G.
- 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.
- 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.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- 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.
- 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.
- 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.
- REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING, THROUGHOUT PLACEMENT OF CONCRETE AND DURING EXTRACTION OF TEMPORARY CASING.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.

- 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).
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- 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/m<sup>3</sup>).
- FOUNDATION DESIGNS ASSUME LEVEL GRADE AT THE SITE.
- 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.
- FOR FOUNDATION AND ANCHOR TOLERANCES SEE DRAWING A810214.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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

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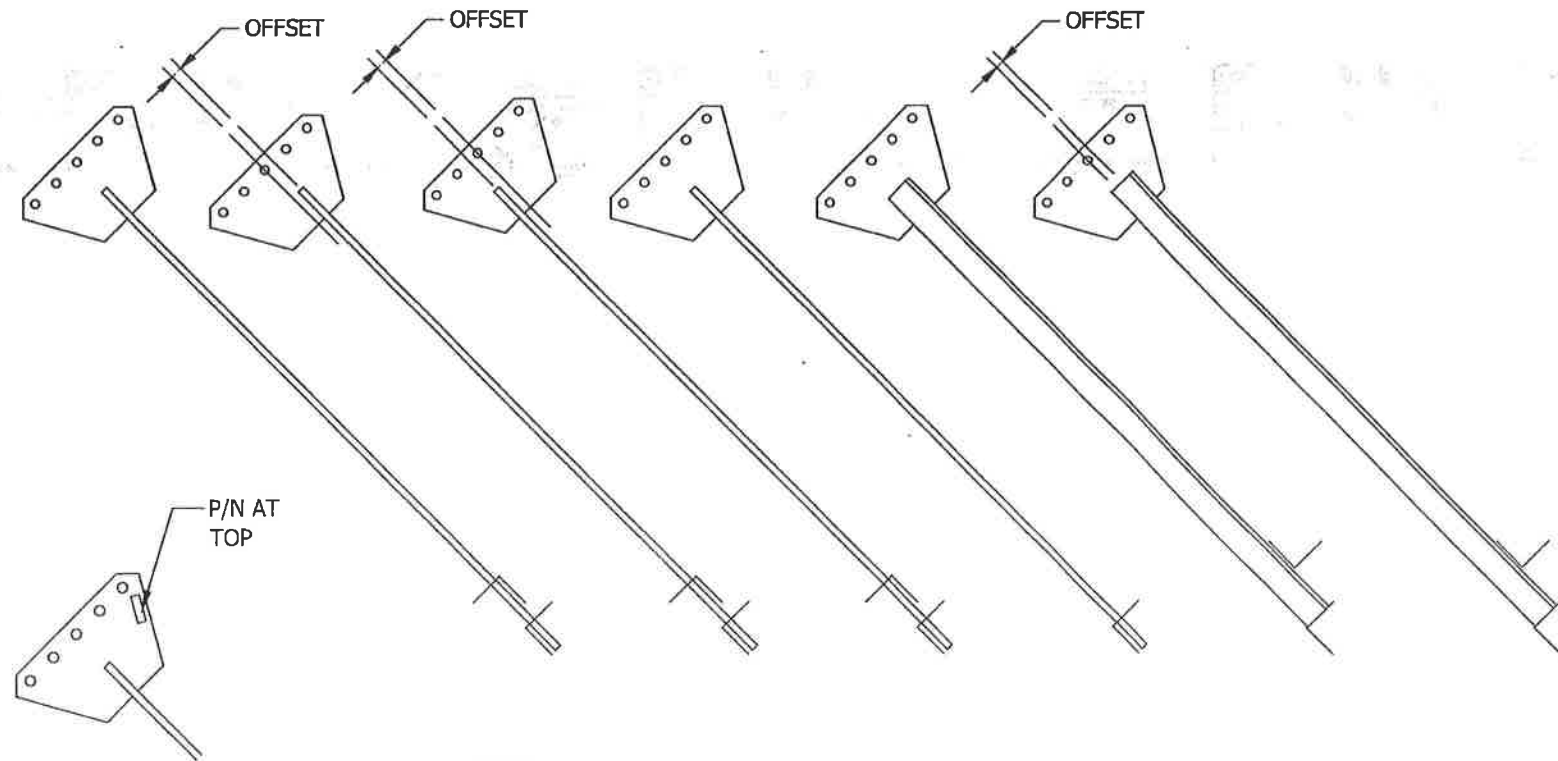
ANSI/TIA-222-G  
STANDARD FOUNDATION NOTES

DWN:	CHK'D:	DATE:
FAD	HA	Nov/20/2009

ENG'R:	SHEET #:
HA	1 OF 1

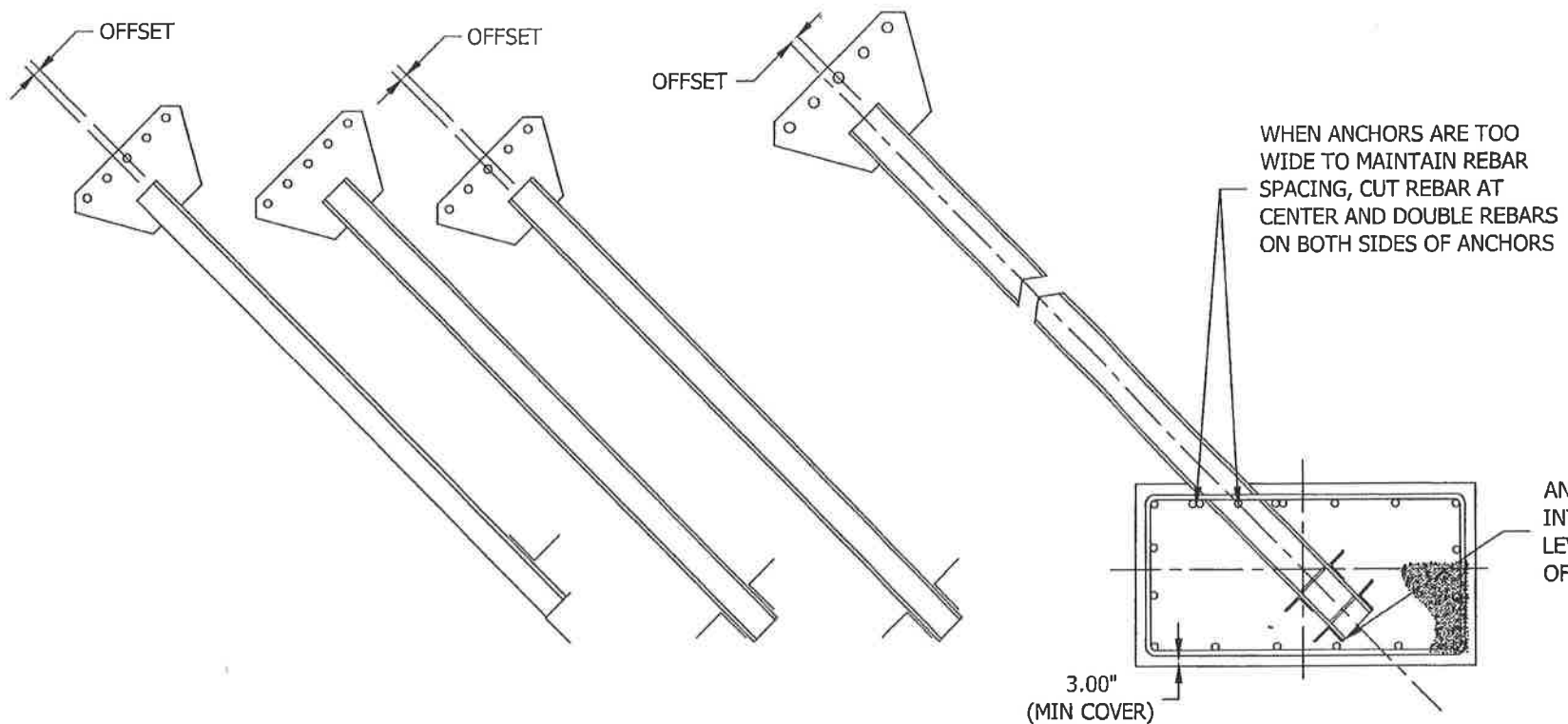
PRJ. ENG'R:	PRJ. MANG'R:
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DRAWING NO:	REV:
B090548	1



TYPICAL DETAIL

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



WHEN ANCHORS ARE TOO  
WIDE TO MAINTAIN REBAR  
SPACING, CUT REBAR AT  
CENTER AND DOUBLE REBARS  
ON BOTH SIDES OF ANCHORS

ANCHOR TO BE INSERTED  
INTO CONCRETE BLOCK TO  
LEVEL WITH BOTTOM LAYER  
OF REINFORCING BARS

3.00"  
(MIN COVER)

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

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PEORIA, IL 61604  
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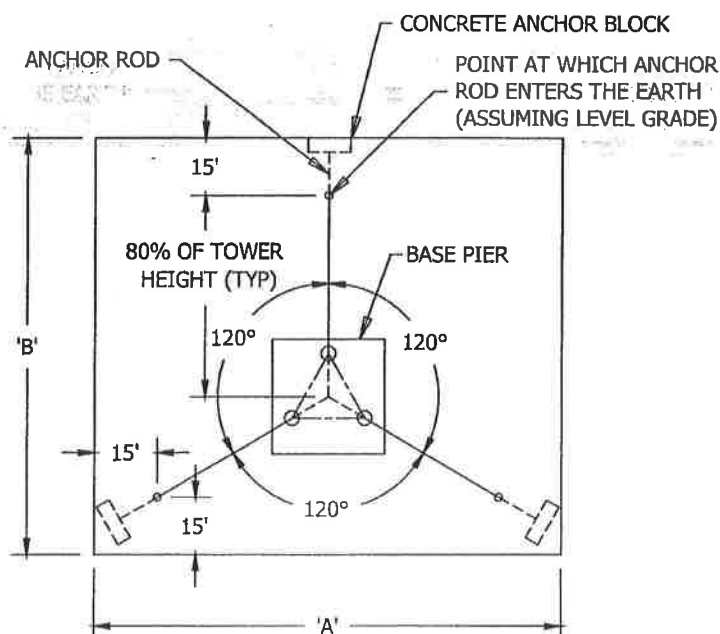
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**ANCHOR INSTALLATION DETAIL**  
ANCHOR INSTALLATION DETAIL

DWN: B_N	CHK'D: WDU	DATE: Mar/22/1995
ENG'R: TWS		REV: 3
DRAWING NO: A951409		

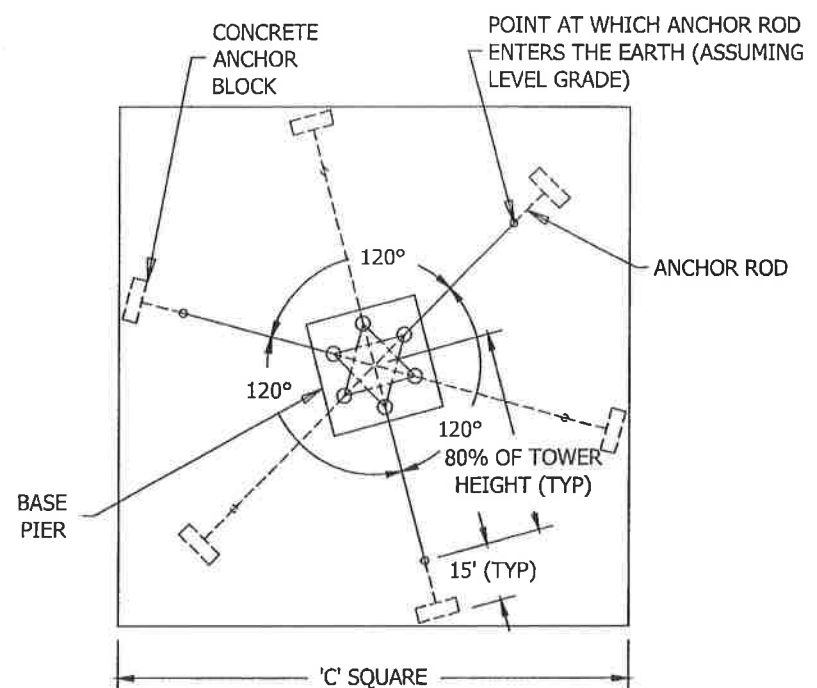
D:\157010 11:04:30 AM

Revision



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 MINIMUM AREA OF LAND REQUIRED TO PERMIT ORIENTING THE TOWER IN ANY POSITION FOR ANTENNA 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	JDA	JDM	HA
DATE: Mar/22/2006				

DWG REFERENCE

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GUY ANCHOR  
LAND REQUIREMENT DETAIL

DWN: MSR	CHK'D: OH	DATE: Apr/15/1975
ENGR: CW		
DRAWING NO: C640531	REV: 4	

JDA/MSR/2007 11:28:31 AM

Revision 4

FILE NO.

REVISIONS

REV	DESCRIPTION	DWN	CHK	APP
7	CHANGE NOTATION.	JEC	JDM	HA

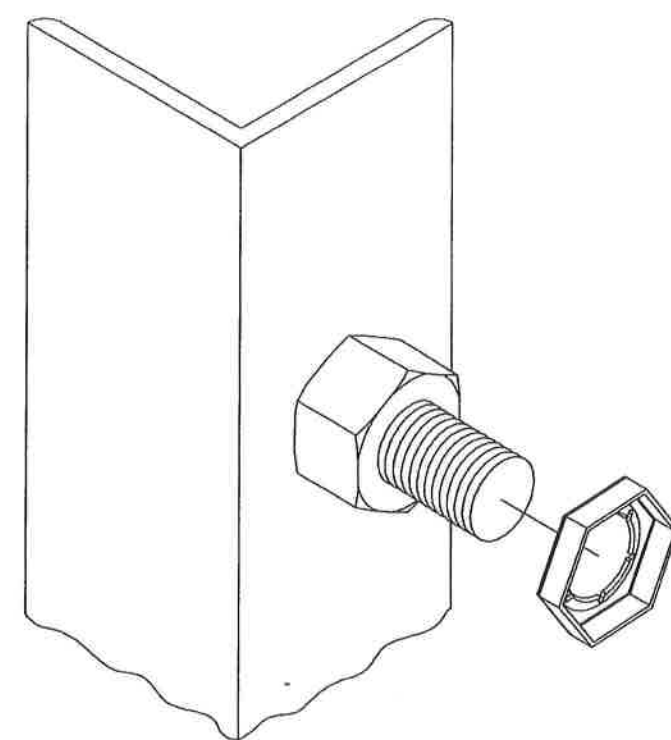
DATE: 01/11/12

**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.



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**BOLT ASSEMBLY INSTALLATION**

DWN:	OH	CHK'D:		DATE:	07/05/79
ENG'R:	TWS	SHEET #:	1 OF 1	REV:	7
DRAWING NO:	A790135				



FILE NO. Standard-45G				
REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
8	REDRAW & REVISED	JDA	KTL	H.A
DATE: Dec/13/2005				

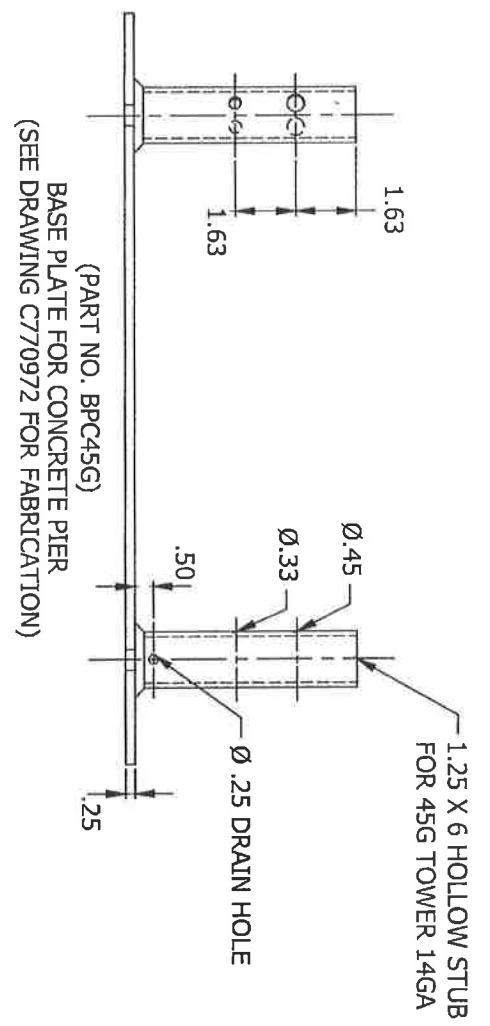
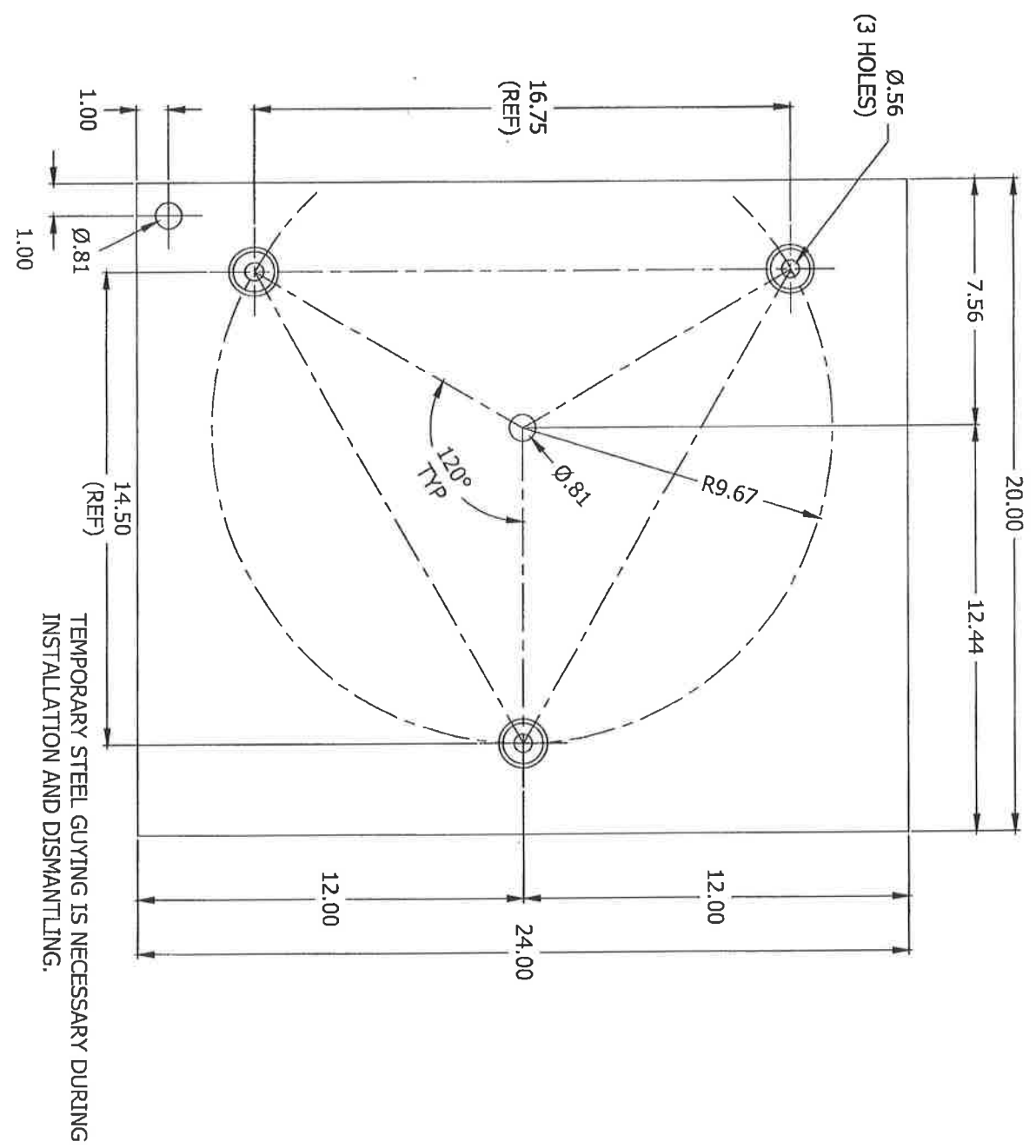
DWG REFERENCE	
C770972	
B690606	

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PEORIA, IL 61604  
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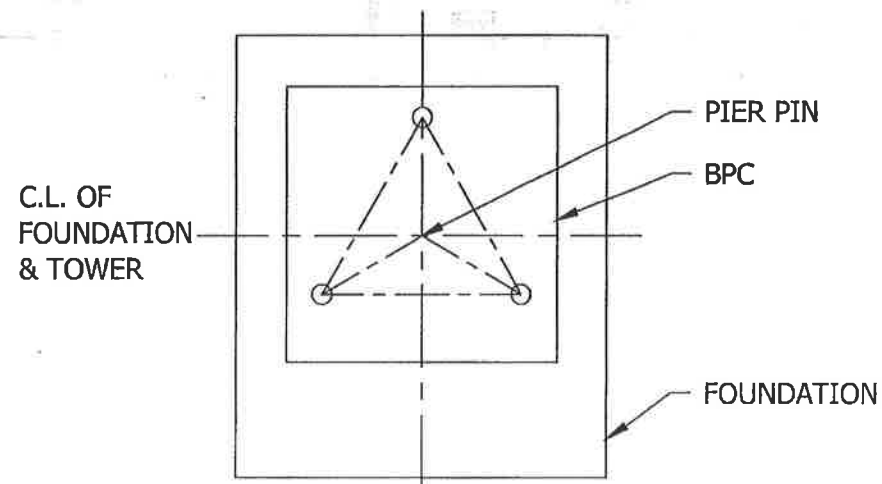
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BASE SECTION  
45G CONCRETE BASE PLATE ASSY

DWN:	OH	CHK'D:	KTL	DATE:	Jun/30/1964
ENGR:	RAM				
DRAWING NO:	C640645			REV:	8

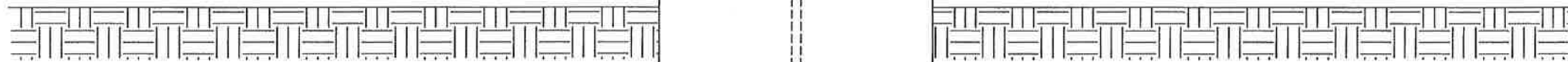
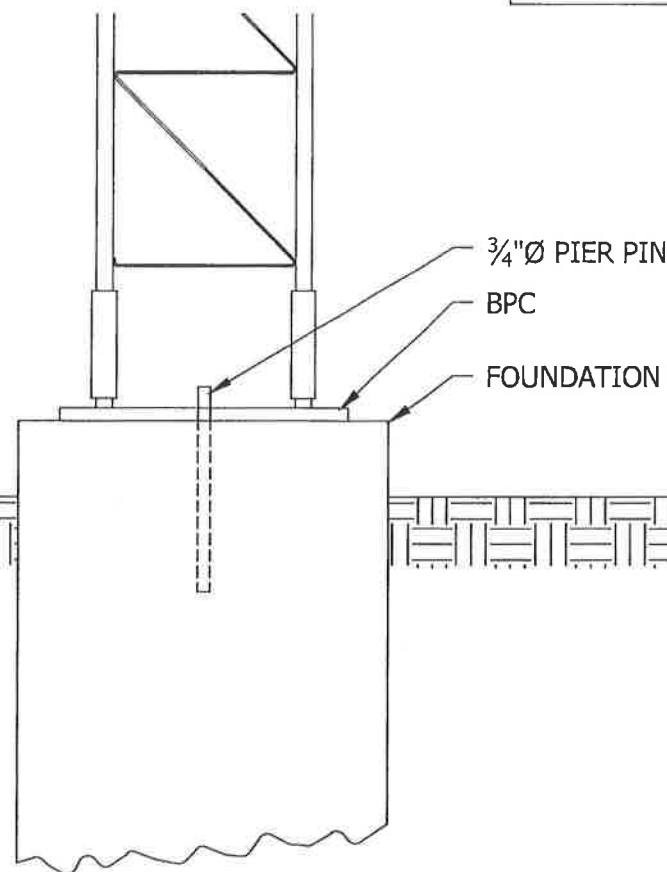


- NOTES:
1. DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLERS RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.
  2. AFTER GALVANIZING CHECK DRAIN HOLES TO SEE THAT THEY ARE NOT PLUGGED.
  3. FOR USE WITH GUYED AND BRACKETED TOWERS ONLY.



C.L. OF FOUNDATION & TOWER

**NOTE:** TOWER IS NOT TO STAND UNGUYED IN ANY CASE. TOWER MUST BE TEMPORARILY OR PERMANENTLY GUYED WITH STEEL GUYS AT ALL TIMES.



FILE NO. Standard-SSV

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
2	REDRAWN	CMH	KTL	HA
DATE: Mar/18/2005				

DWG REFERENCE

**ROHN**  
PRODUCTS

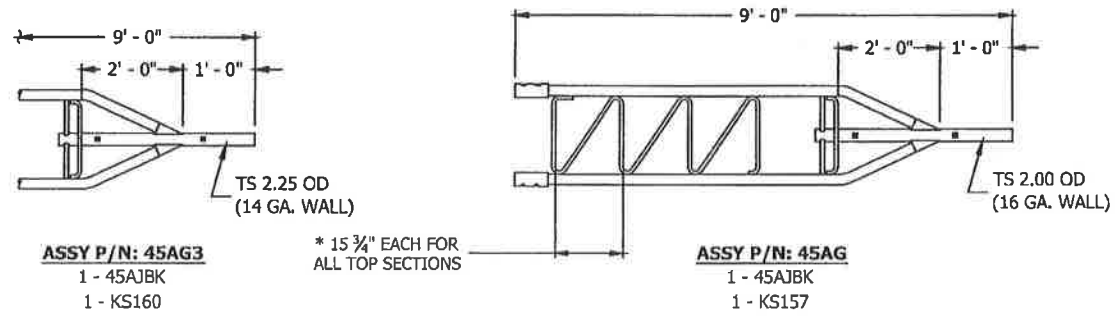
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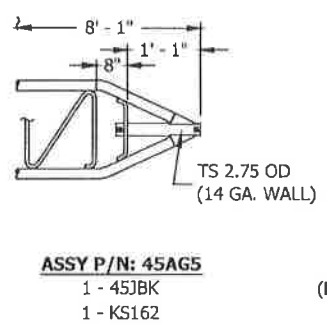
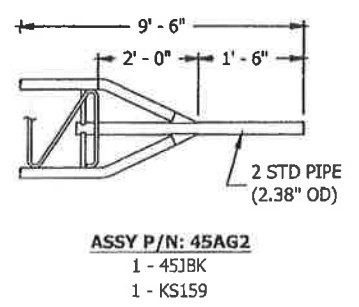
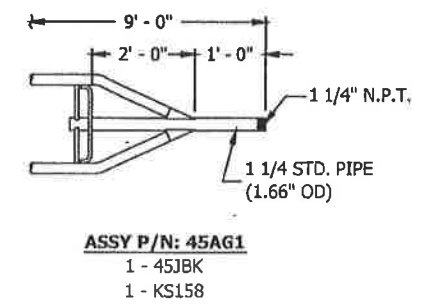
DWG BPC ASSEMBLY DETAILS

DWN:	OH	CHK'D:	GR	DATE:	Jun/05/1968
ENG'R:	TWS				
DRAWING NO:	B680606			REV:	2

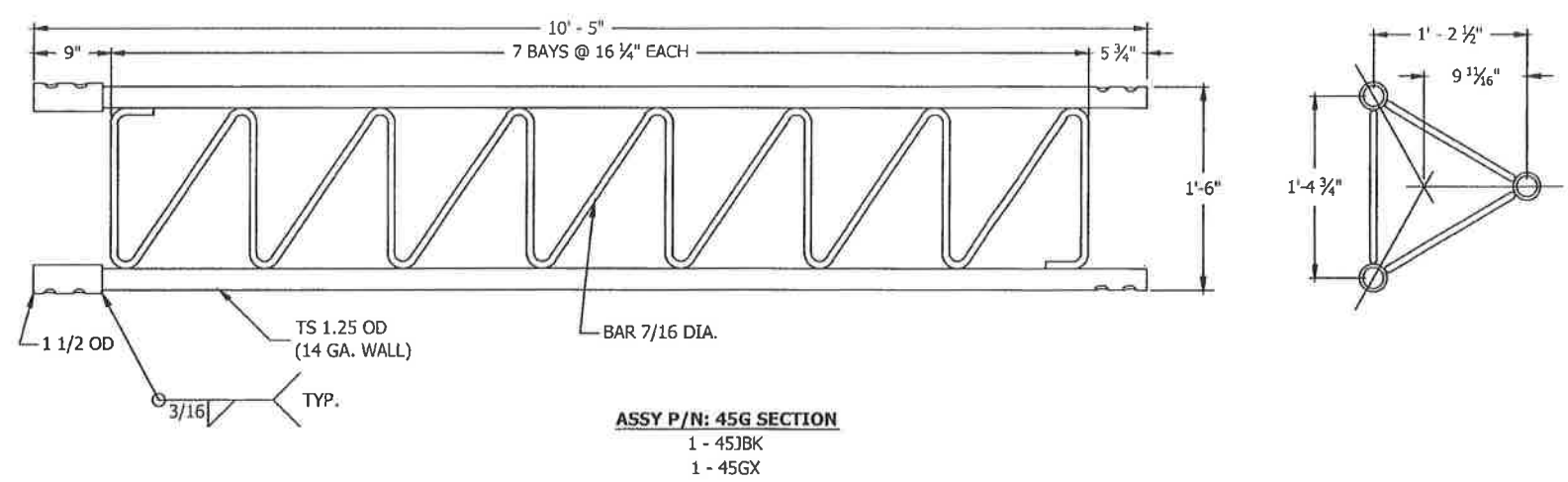
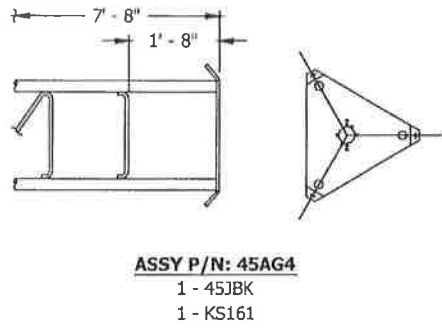
564727007 8:23:01 AM



\*NOTE: SPECIFICATIONS OF TOP SECTIONS ARE THE SAME AS SECTION NO. 45 EXCEPT AS NOTED ABOVE.



**TYPICAL PLAN VIEW**  
(FOR ALL SECTIONS EXCEPT 45AG4)



FILE NO.

REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP

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**45G SECTION ASSEMBLY**

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DWN:	ZAW	CHK'D:	JDM	DATE:	06/05/12
ENGR:	HA	SHEET #:	1 OF 1		

DRAWING NO:	DWG-0526	REV:	0
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FILE NO.

Standard-45G

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
5	ADDED INTO AUTOCAD	JDA	JDM	H.A
6	DATE: Aug/16/2006 - UPDATED TO REF 'P' DOWN PULL ADDED MAX GUY WIRE SIZE	ABS	JDM	HA
7	DATE: Dec/17/2008 UPDATED TO STANDARDS REVISED REV G VERTICAL PULL	ABS	JDM	HA
	DATE: May/27/2010			

25G GUY BRACKET ASSEMBLY GA25GD - BILL OF MATERIALS			
ITEM	QTY	PART NO.	DESCRIPTION
1	3	GL1/2	LINK GB25D.5" DIAx1.75x3.38
2	6	KH386	RINGFILL PL .38X1.5" DIA .563"
3	3	210152GA	BOLT ASSY 1/2x3 HSB A325 HDG
4	3	GB25D	BRACKET GUY BAR FORM .25x1.50"
5	3	KC688	BAR FLAT BRACE 1.5X.19X4.72"
6	6	210005GA	BOLT ASSY 3/8 X 1-1/4 HCS G5 HDG
7	1	22208A	CARTON FOR GA25GD GUY ASSY

45G GUY BRACKET ASSEMBLY GA45GD - BILL OF MATERIALS			
ITEM	QTY	PART NO.	DESCRIPTION
1	3	GL5/8	LINK GB45 & 55D .63"DIA X 4.5"
2	6	KH3423	RINGFILL PL .31X2" DIA. 688"
3	3	210072GA	BOLT ASSY 5/8x3-1/4 HSB A325 HDG
4	3	GB45D	BRACKET GUY BAR FORM
5	3	KC192	BAR FLAT BRACE .25X1.5X6"
6	6	210008GA	BOLT ASSY 3/8 X 1-1/2 HCS G5 HDG
7	1	22209A	CARTON FOR GA45GD & GA55GD

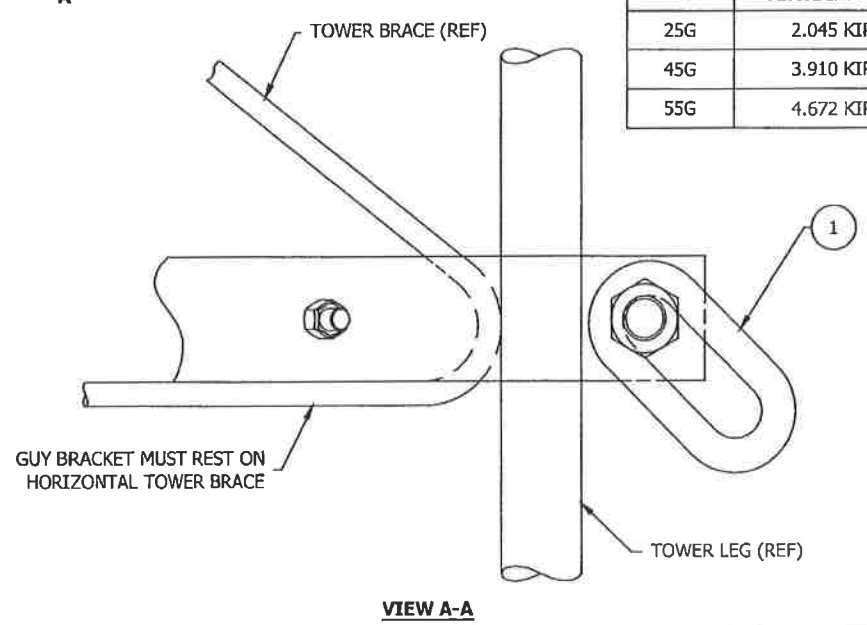
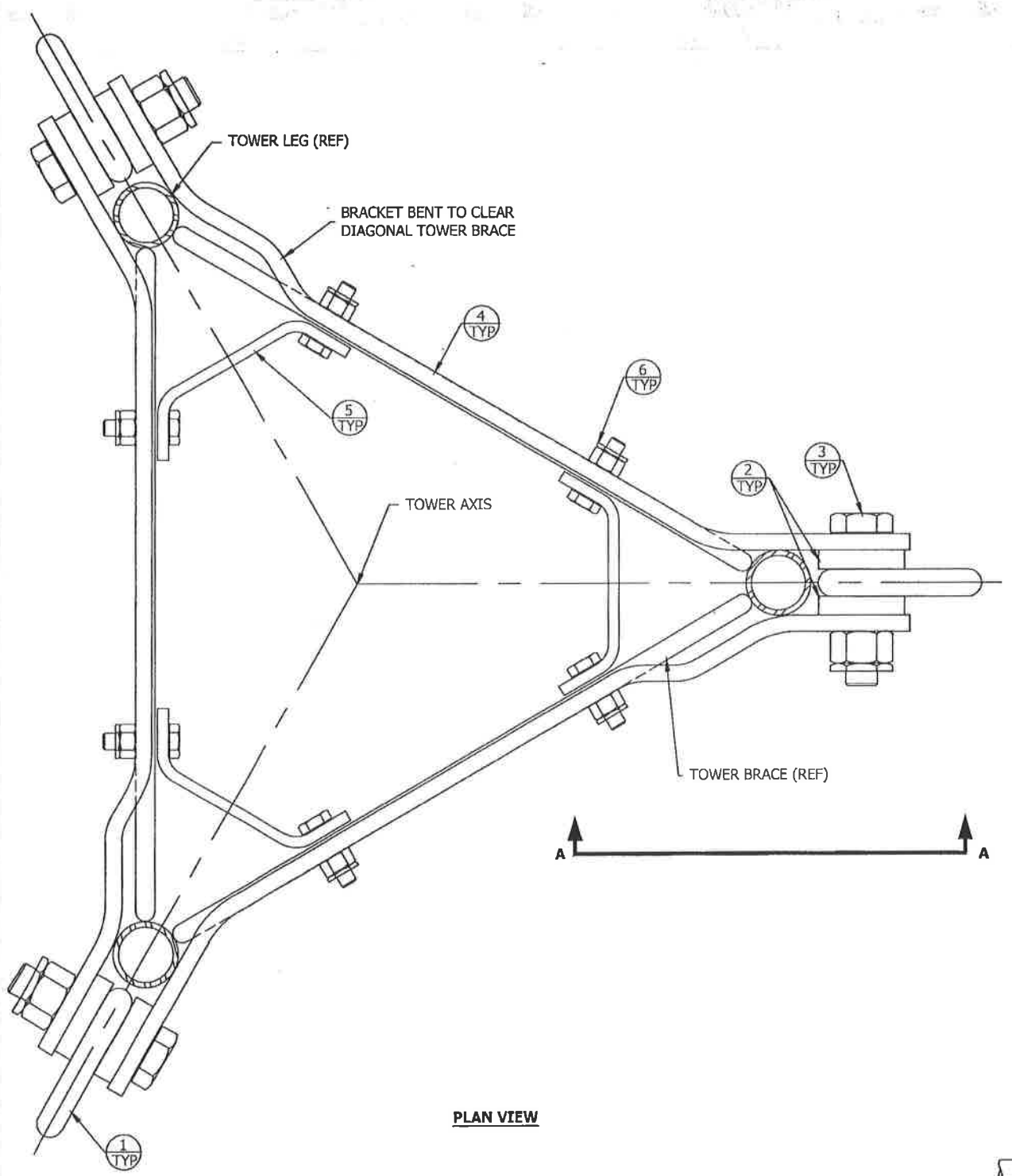
55G GUY BRACKET ASSEMBLY GA55GD - BILL OF MATERIALS			
ITEM	QTY	PART NO.	DESCRIPTION
1	3	GL5/8	LINK GB45 & 55D .63"DIA X 4.5"
2	6	KH3424	RINGFILL PL .44x2.0" DIA. 81"
3	3	210054GA	BOLT ASSY 3/4x3-1/2 HSB A325 HDG
4	3	GB55D	BRACKET GUY BAR FORM
5	3	KC192	BAR FLAT BRACE .25X1.5X6"
6	6	210008GA	BOLT ASSY 3/8 X 1-1/2 HCS G5 HDG
7	1	22209A	CARTON FOR GA45GD & GA55GD

DWG REFERENCE

THIMBLE DATA		
GUY BRACKET P/N	MAXIMUM THIMBLE SIZE	MINIMUM THIMBLE SIZE
GA25GD	3/8 THH	1/4TH-5/16THH
GA45GD	9/16THH	1/4TH-5/16THH
GA55GD	9/16THH	1/4TH-5/16THH

SECTION	MAXIMUM REV 'F' VERTICAL PULL	MAXIMUM GUY WIRE SIZE
25G	1.90 KIPS	3/16" EHS
45G	3.40 KIPS	1/4" EHS
55G	3.94 KIPS	5/16" EHS

SECTION	MAXIMUM REV 'G' VERTICAL PULL	MAXIMUM GUY WIRE SIZE
25G	2.045 KIPS	3/16" EHS
45G	3.910 KIPS	1/4" EHS
55G	4.672 KIPS	5/16" EHS



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GUY BRACKET ASSY & HARDWARE  
25, 45, 55 TOWERS

DWN:	WDU	CHK'D:	GPW	DATE:	Apr/15/1988
ENGR:	ROB				
DRAWING NO:	C870710			REV:	7

May/28/2015 11:28:00 AM

liberant

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

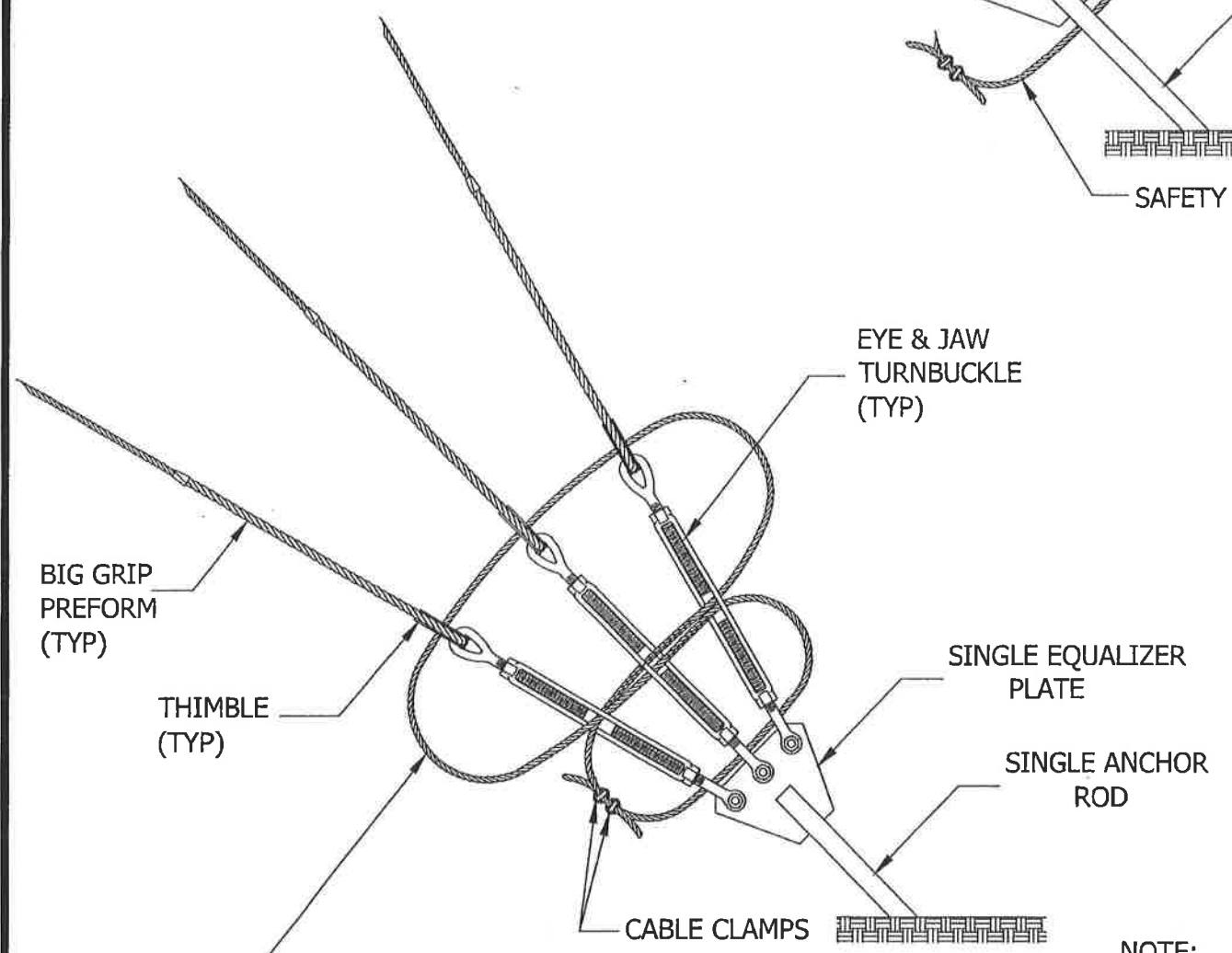
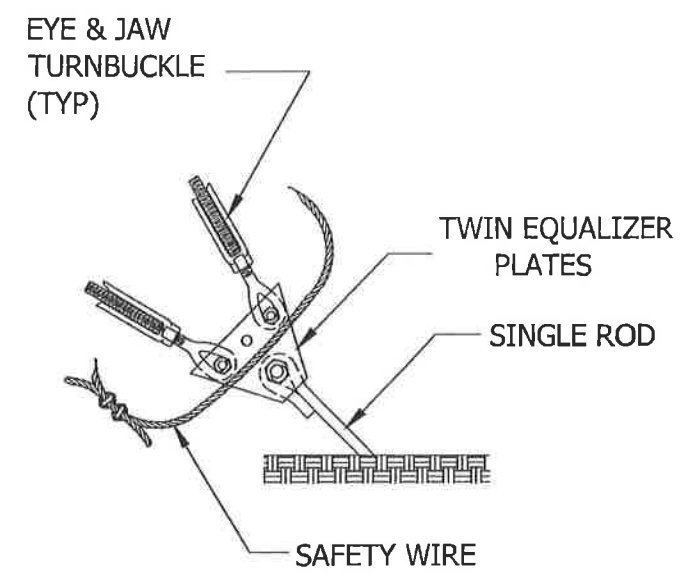
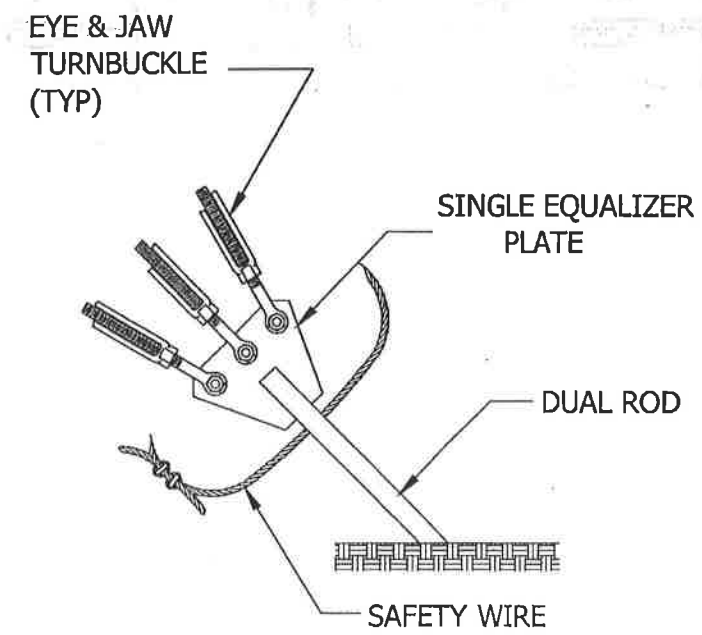
DWG REFERENCE	

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TURNBUCKLE SAFETY METHOD

DWN:	CHK'D:	DATE:
KTL	O.H	Mar/04/1968
ENGR:		
TWS		
DRAWING NO:	REV:	
B680324	8	




1/4" EHS WIRE (UP TO 1" TURNBUCKLES)  
5/16" EHS WIRE (1-1/4" TURNBUCKLES & LARGER)

**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.

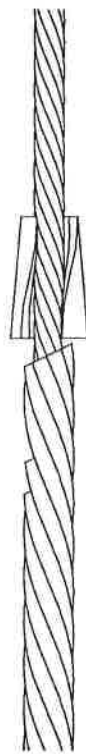
Apr/13/2006 05:27:30 AM

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				
 6718 WEST PLANK ROAD PEORIA, IL 61604 TOLL FREE 800-727-ROHN				
<small>THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.</small>				
GUY WIRE HARDWARE KIT				
DWN:	WHW	CHK'D:	W.M	DATE: Sep/30/1987
ENGR:	RDM			
DRAWING NO:	A871382			REV: 4

Sep/17/2007 2:04:24 PM  
 direction

**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

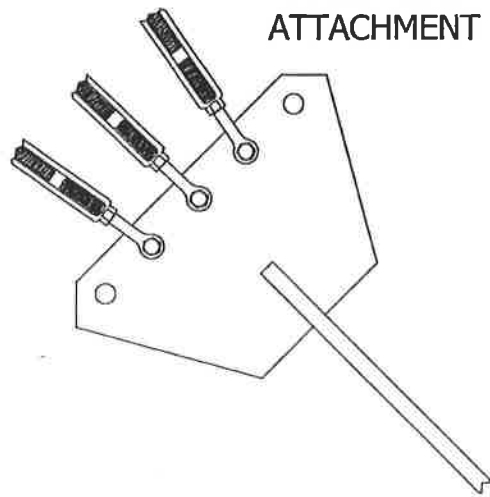
**BE SURE TO SELECT THE PROPER SIZE END SLEEVE**

FILE NO. Standard-80				
REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
3	REDRAWN IN AUTOCAD	JDM	M.F	H.A
DATE: Mar/17/2006				
DWG REFERENCE				
 6718 WEST PLANK ROAD PEORIA, IL 61604 TOLL FREE 800-727-ROHN				
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SPLICE CONNECTION FOR BIG GRIP & END SLEEVE				
DWN:	H.A	CHK'D:	RAM	DATE:
ENG'R:	TWS	Jun/09/1970		
DRAWING NO:	B700607	REV:	3	

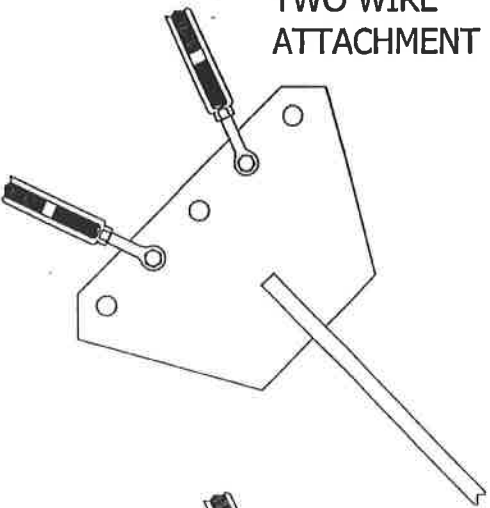
Mar/21/2006 9:07:13 AM

B700607

THREE WIRE ATTACHMENT



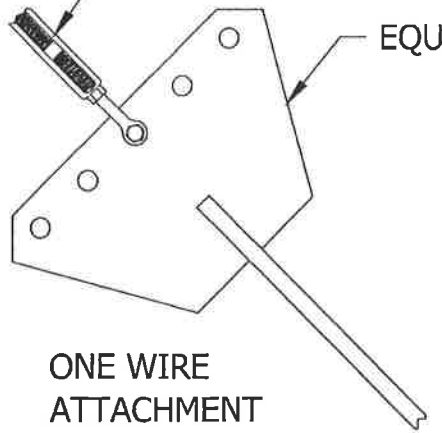
TWO WIRE ATTACHMENT



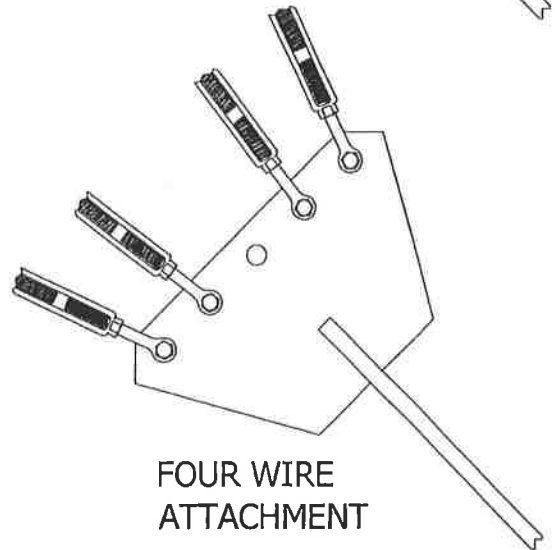
TURNBUCKLE (TYP)

EQUALIZER (TYP)

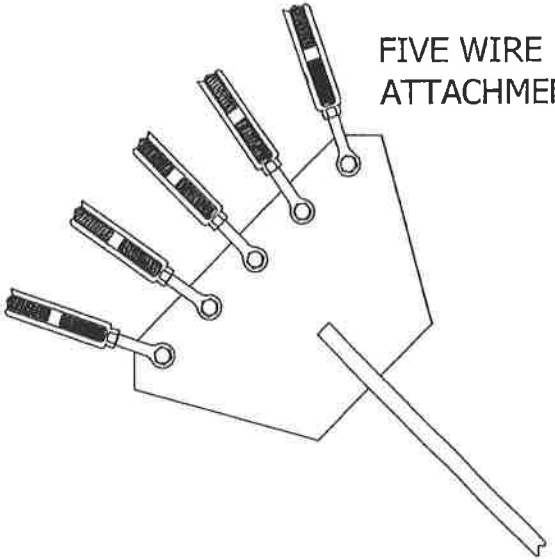
ONE WIRE ATTACHMENT



FOUR 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	JDA	JDM	H.A
DATE: Jul/19/2006				

DWG REFERENCE



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

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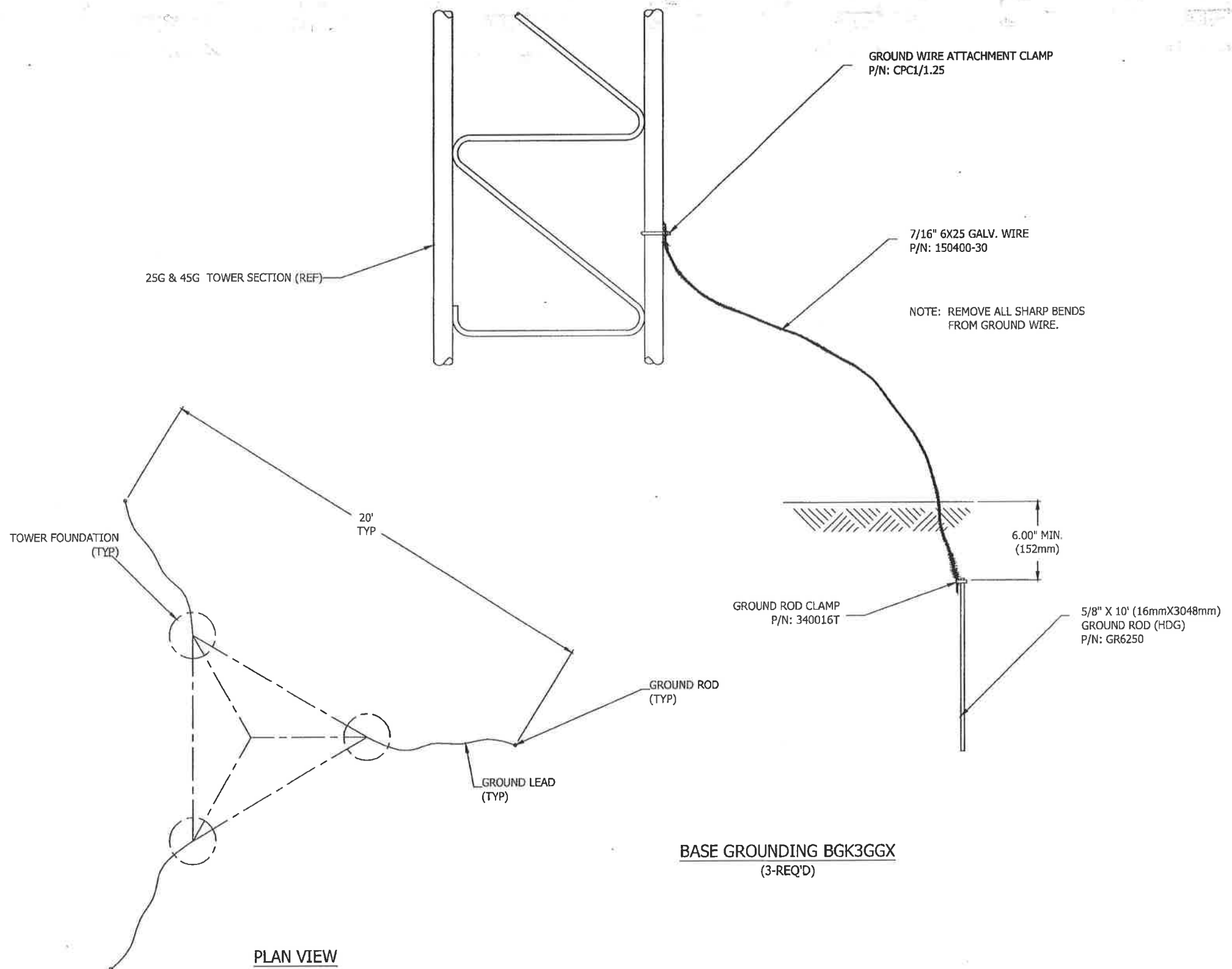
ANCHOR ATTACHMENT DETAIL

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

PEB06/02/06 8:14:05 AM

B820511





FILE NO.

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

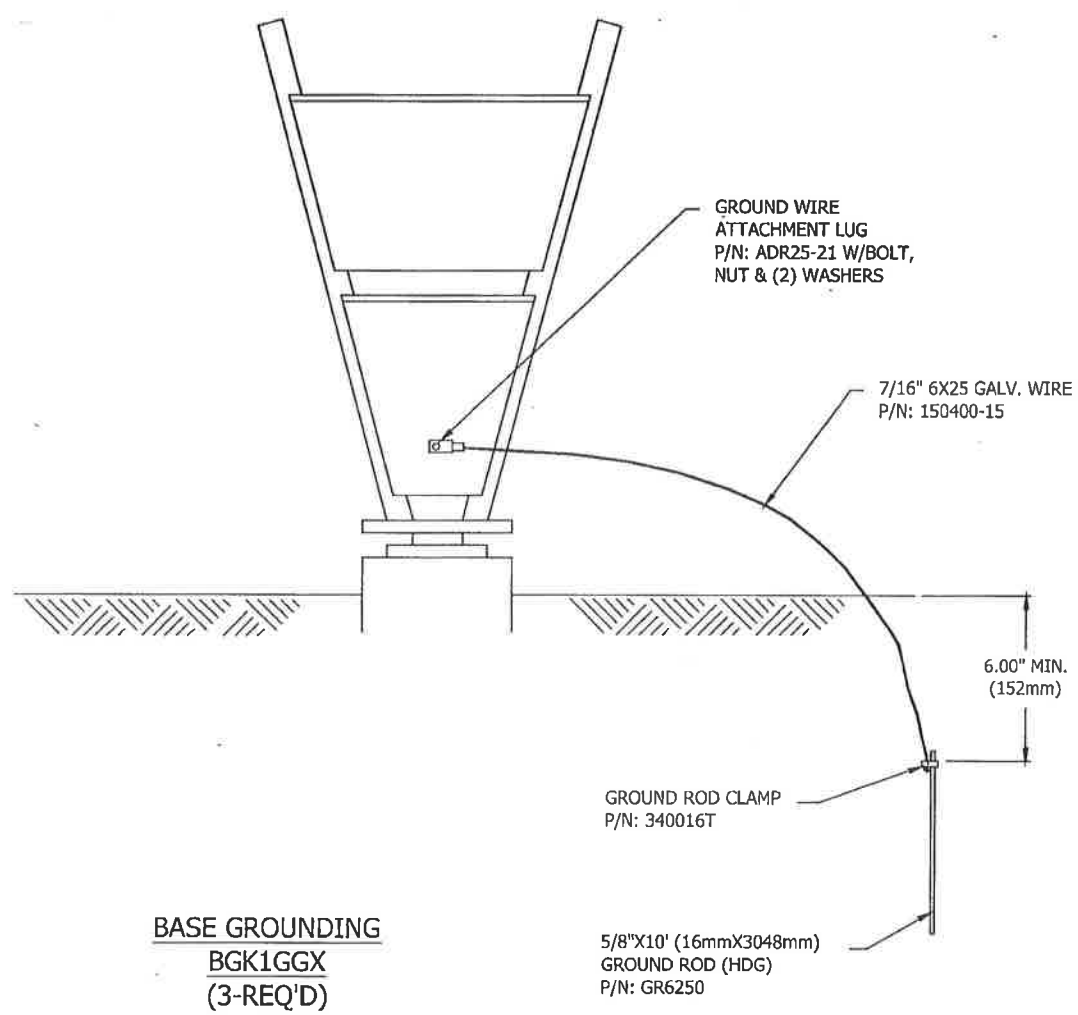
**ROHN**  
PRODUCTS  
PO BOX 5999  
PEORIA, IL 61601-5999  
TOLL FREE 800-727-ROHN

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**KIT BASE GRD 25 & 45 TOWER**

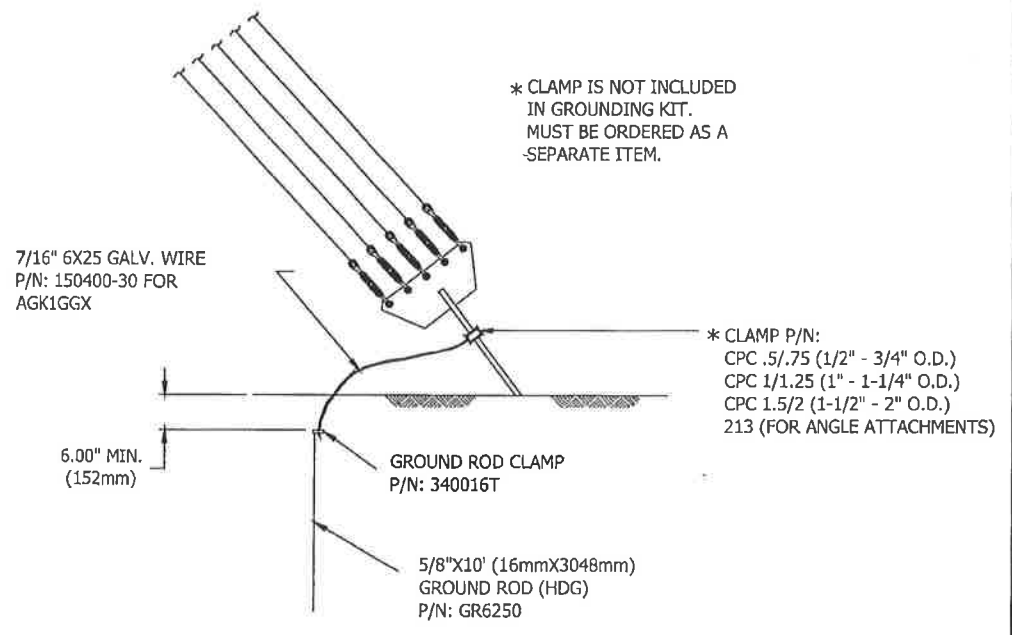
DWN:	CHW	CHK'D:	JDM	DATE:	FEB/2/2009
ENG'R:	HA	SHEET #:	1 OF 1		
DRAWING NO:	B090128			REV:	2

FILE NO.				
REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
3	UPDATE BOM AND STANDARDS	JEC	KTL	HA
DATE: 8/17/11				



**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**

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

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REV. G G80 & 90 TOWERS

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