

NO. 25G BRACKETED TOWERS - NO ICE

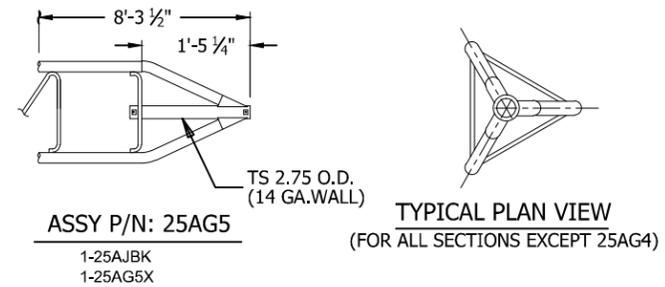
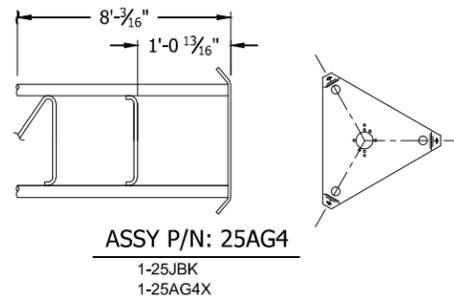
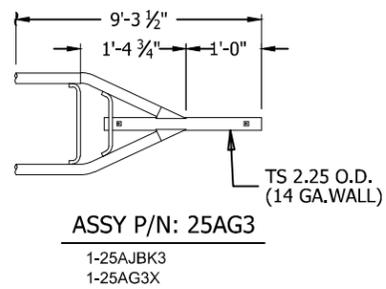
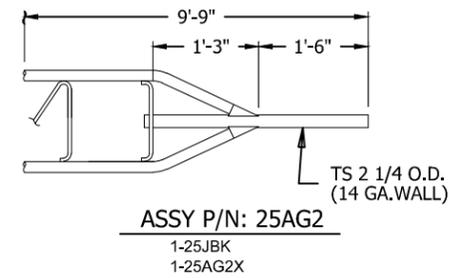
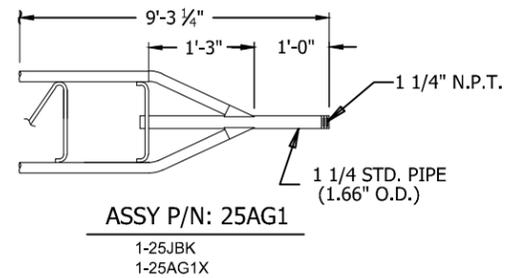
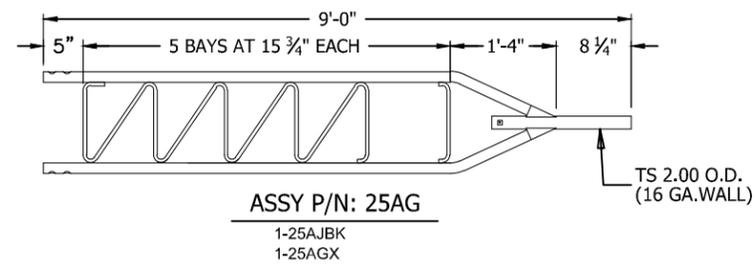
TOWER HEIGHT (FT)	BRACKET ELEVATION		ALLOWABLE ANTENNA AREAS (SQFT.)		
	UPPER (FT)	LOWER (FT)	70 MPH	80 MPH	90 MPH
40	30.0	15.0	15.3	11.3	7.7
50	36.0	18.0	14.6	10.0	6.8
60	46.0	23.0	14.0	8.9	5.9
70	56.0	28.0	13.5	8.3	5.5
80	66.0	33.0	13.1	7.7	5.0
90	66.0	33.0	6.8	4.9	---
100	66.0	33.0	1.7	---	---

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-F.
2. ALL TOWERS MUST HAVE "FIXED BASES". PINNED BASES MUST NOT BE USED.
3. DESIGN ASSUMES ONE 5/8" TRANSMISSION LINE ON EACH FACE, (TOTAL = 3), SYMMETRICALLY PLACED.
4. ANTENNAS AND MOUNTS ASSUMED SYMMETRICALLY PLACED AT TOWER TOP.
5. ALLOWABLE ANTENNA AREAS ASSUME ALL ROUND ANTENNA MEMBERS.
6. ALLOWABLE FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MAY BE OBTAINED BY MULTIPLYING AREAS SHOWN BY 0.6.
7. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
8. TOWER ERECTION AND DISMANTLING MUST BE DONE BY QUALIFIED AND EXPERIENCED PERSONNEL.
9. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
10. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
11. FOR FOUNDATION DETAILS, SEE DRAWING A871298.
12. ALL BRACKETS ARE TO BE P/N HBUTVRO PER DRAWING D850221.
13. THE INTERFACE OF TOWER BRACKETS TO SUPPORTING STRUCTURE IS TO BE DESIGNED "BY OTHERS" AND MUST SUPPORT A MINIMUM HORIZONTAL FORCE OF 815 POUNDS.

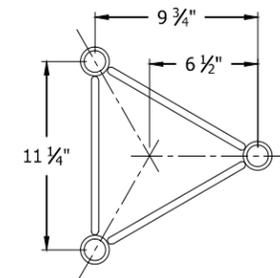
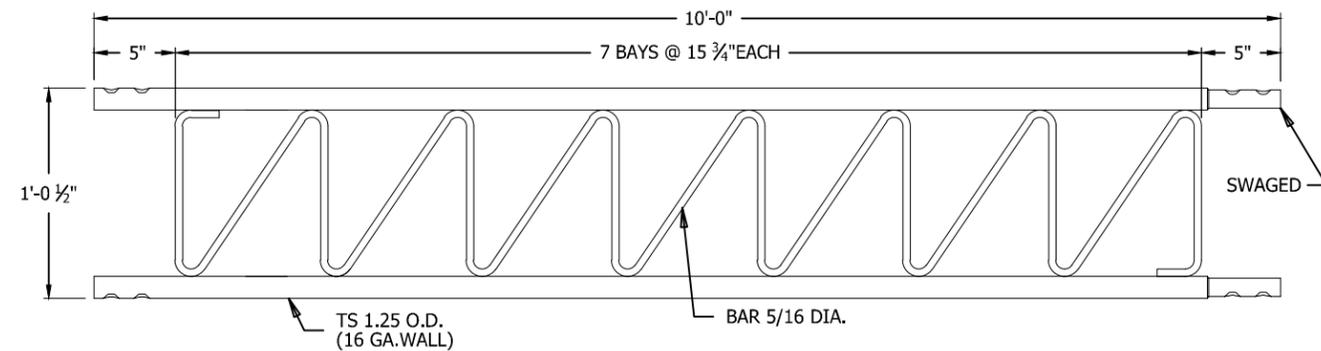
FILE NO. Standard-25G				
REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
2	REDRAWN INTO AUTOCAD FORMAT DATE: Jun/11/2007	JDA	JDM	HA
DWG REFERENCE				
 6718 WEST PLANK ROAD PEORIA, IL 61604 TOLL FREE 800-727-ROHN				
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ERECTION PROFILE 25G BRACKETED TOWERS - NO ICE				
DWN:	RDM	CHK'D:	AED	DATE:
ENGR:	WDU	Mar/17/1988		
DRAWING NO:	A871302			REV:
				2

Dec/27/2007 10:33:38 AM

Erection



NOTE: SPECIFICATIONS OF TOP SECTIONS ARE THE SAME AS SECTION NO.25G EXCEPT AS NOTED ABOVE.



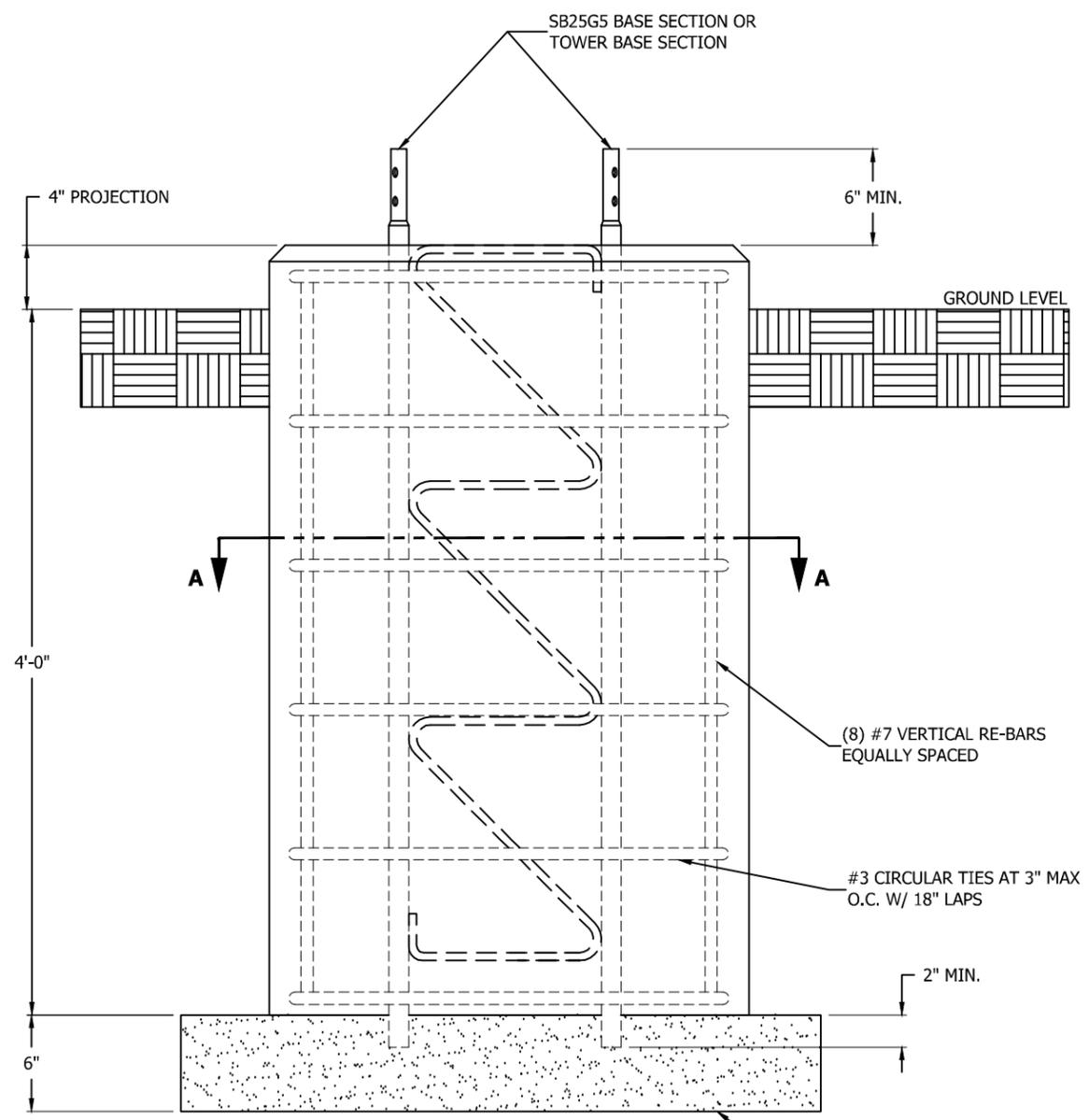
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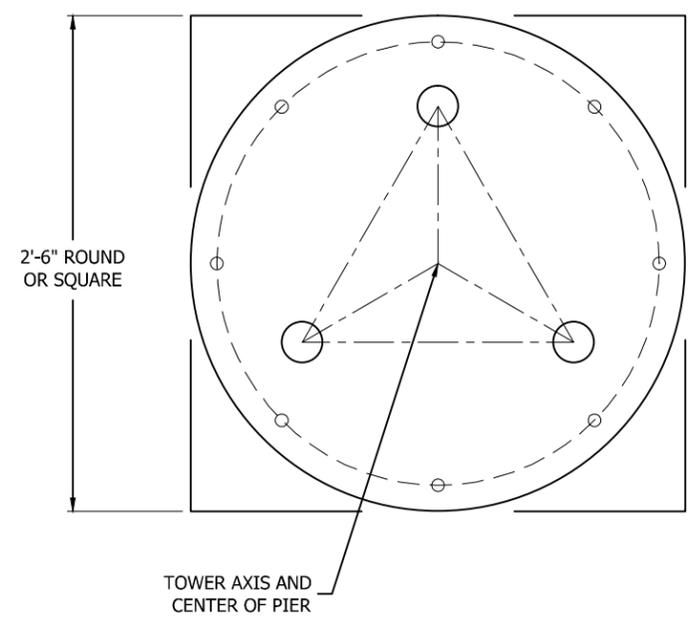
**SECTION ASSEMBLY
25G SECTIONS**

DWN: ZAW	CHK'D: JDM	DATE: 05/30/12
ENGR: HA	SHEET #: 1 OF 1	
PRJ. ENGR:	PRJ. MANG'R:	
DRAWING NO: DWG-0523	REV: 0	

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
4	UPDATE DRAWING TO NEW STANDARDS DATE: 08/06/2012	ZAW	JDM	HA



ELEVATION



SECTION A-A

NOTES:
FOR REQUIRED MATERIAL SPECIFICATIONS, INSTALLATION NOTES, AND TOLERANCES, SEE DRAWING B841300

VOLUME OF CONCRETE
SQUARE PIER = 1.0 CU. YDS.
ROUND PIER = 0.8 CU. YDS.

MAX. REACTIONS
MOMENT = 1,563 FOOT POUNDS
SHEAR = 211 POUNDS
AXIAL = 600 POUNDS



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FOUNDATION FOR BRACKETED 25G TWR DRILLED PIER

DWN: WDU	CHK'D: B_F	DATE: 09/16/1987
ENGR: XK	SHEET #: 1 OF 1	
PRJ. ENGR:	PRJ. MANG'R:	
DRAWING NO: A871298	REV: 4	

STANDARD FOUNDATION NOTES

1. FOUNDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA/EIA/-222-F, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES", SECTION 7, FOR "NORMAL" SOIL CONDITIONS. "NORMAL" SOIL IS DEFINED AS DRY, COHESIVE SOIL WITH AN ALLOWABLE NET VERTICAL BEARING CAPACITY OF 4000 PSF (192 kPa) AND AN ALLOWABLE NET HORIZONTAL PRESSURE OF 400 PSF PER LINEAL FOOT OF DEPTH (62.8 kPa PER LINEAL METER OF DEPTH) TO A MAXIMUM OF 4000 PSF (192 kPa).
2. THE PURCHASER MUST VERIFY THAT ACTUAL SITE SOIL PARAMETERS MEET OR EXCEED E.I.A. "NORMAL" SOIL 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 "NORMAL" SOIL PARAMETERS ARE NOT APPLICABLE FOR THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED.
3. 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.
4. WORK SHALL BY 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.
5. ANCHOR BOLTS SHALL MEET OF EXCEED THE REQUIREMENTS OF ASTM F1554-S2, S5 GRADE 105 AND SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH).
6. NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL ANCHOR BOLTS.
7. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
8. 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 MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI (31.0 MPa) IN 28 DAYS.
9. 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.
10. 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.
11. REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE.
12. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
13. 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.
14. 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).
15. SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
16. 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).
17. FOUNDATION DESIGNS ASSUME LEVEL GRADE AT THE SITE.
18. 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.
19. FOR FOUNDATION AND ANCHOR TOLERANCES SEE STRUCTURE ASSEMBLY DRAWING.
20. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
21. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
22. 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.
23. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL EXCEPT FOR PIERS OF PIER AND PAD FOUNDATIONS. FORMS FOR PIERS SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
24. 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 TO OTHER CONSTRUCTION JOINTS.
25. TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISHED. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
26. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19 mm X 19 mm) MINIMUM.
27. FOR ANCHOR BLOCK TYPE FOUNDATIONS, FOR GUYED TOWERS, THE PORTION OF ALL STEEL ANCHORS, FROM TOP OF ANCHOR BLOCK TO GROUND LEVEL, SHALL BE COATED WITH BITUMEN. 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
13	REVISED NOTE 8 TO 4500 PSI DATE: 2/10/2014	JHY	HA	HA
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FOUNDATION MATERIAL INSTALLATION NOTES				
DWN:	CSR	CHK'D:	HA	DATE:
ENGR:	XK	SHEET #:	6/17/1984	
PRJ. ENGR:		PRJ. MANG'R:	1 OF 1	
DRAWING NO:	B841300			REV:
				13

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°
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°

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°
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°
16. ANCHOR ROD SLOPE: PLUS OR MINUS 1.0°
17. ANCHOR ROD ALIGNMENT WITH GUY RADIUS: PLUS OR MINUS 1.0°
18. ANCHOR HEAD OUT OF PLUMB: 1.0°
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.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
9	UPDATED TITLE BLOCK DATE: 05/13/2015	JHY	JDM	HA



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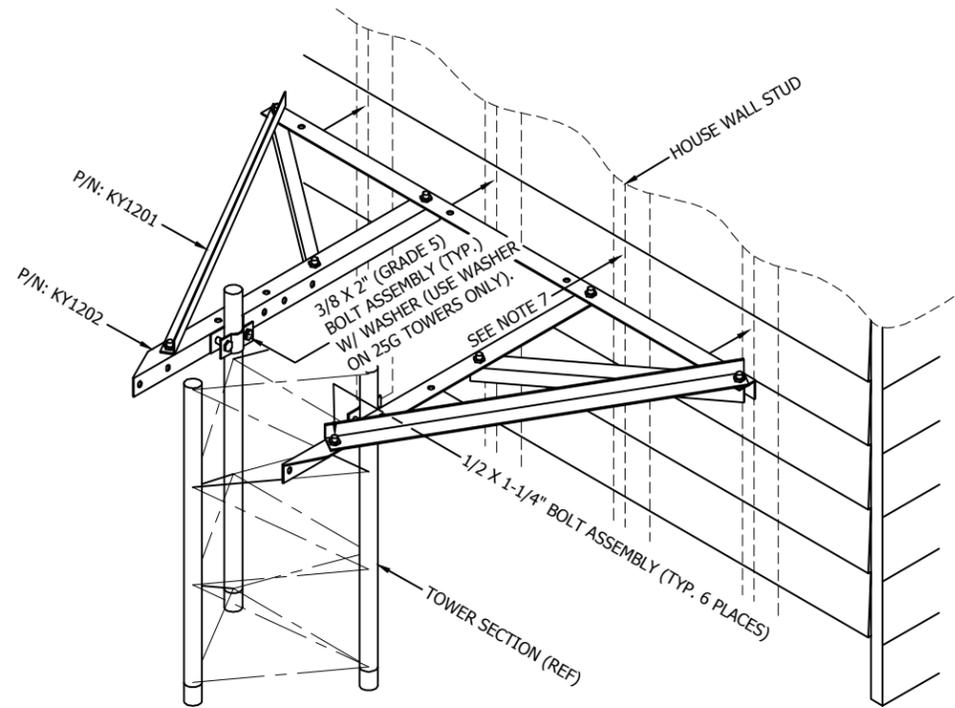
FOUNDATION & ANCHOR TOLERANCE

DWN: CSR	CHK'D: KTL	DATE: 09/25/1987
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ENGR: XK	SHEET #: 1 OF 1
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PRJ. ENGR:	PRJ. MANG'R:
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DRAWING NO: A810214	REV: 9
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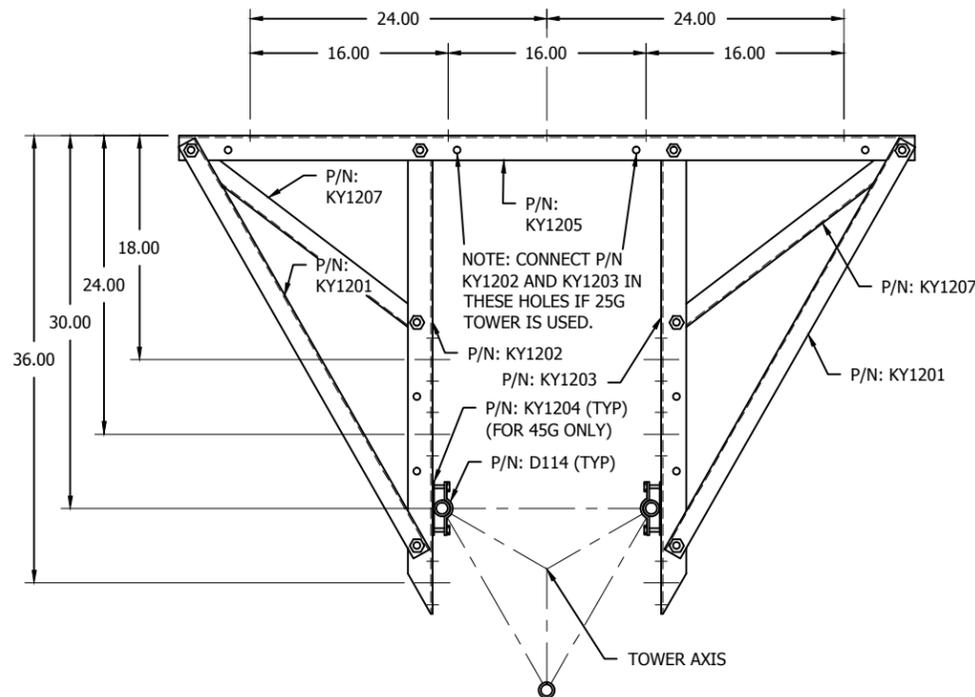


HOUSE BRACKET DETAILS
(ORDER ASSEMBLY PART NO. HBUTVRO)

HOUSE BRACKET ASSEMBLY - HBUTVRO				
ITEM	QTY	PART NO.	ITEM DESCRIPTION	DWG. NO.
1	2	KY1201	DIAGONAL SUPPORT ANGLE	B850392
2	1	KY1202	TOWER MOUNTING ANGLE	C850523
3	1	KY1203	TOWER MOUNTING ANGLE	C850523
4	2	KY1204	SHIM PLATE (FOR 45G TOWERS ONLY)	B850395
5	1	KY1205	HOUSE ATTACHMENT ANGLE	B850525
6	2	D114	SADDLE CLAMP	B770214
7	4	210009GAW	3/8 X 2" BOLT ASSEMBLY (GRADE 5) W/WASHER	C770404
8	2	210018GA	1/2 X 1-1/2" BOLT ASSEMBLY	C770404
9	2	KY1207	DIAGONAL SUPPORT ANGLE	B850404
10	6	210017GA	1/2 X 1-1/4" BOLT ASSEMBLY	C770404

DESIGN NOTE

ALL CONNECTIONS OF HOUSE BRACKET TO BUILDING ARE TO BE SUPPLIED BY OTHERS. IT MAY BE NECESSARY TO ENGAGE A LOCAL PROFESSIONAL ENGINEER TO DESIGN INTERFACE OF HOUSE BRACKET TO STRUCTURE.



PLAN VIEW

GENERAL NOTES:

1. TO INSURE SAFETY, NO HOUSE BRACKET INSTALLATION (WALL OR ROOF) SHOULD BE ATTEMPTED WITHOUT A LOCAL PROFESSIONAL STRUCTURAL ANALYSIS.
2. IT IS THE PURCHASER'S RESPONSIBILITY TO VERIFY THAT HIS INSTALLATION IS ADEQUATE TO WITHSTAND ALL LOADS IMPOSED BY HIS MOUNT AND ANTENNA.
3. LOCAL ZONING AND/OR BUILDING CODES AND INSURANCE COMPANIES MAY REQUIRE AN ARCHITECT OR STRUCTURAL ENGINEER APPROVAL PRIOR TO INSTALLATION.
4. INSPECT MOUNT AND ANTENNA INSTALLATION EVERY 6 MONTHS (OR AFTER EVERY STORM) FOR TIGHTNESS.
5. ALL ANTENNA INSTALLATION SHOULD BE GROUNDED, BY THE INSTALLER, TO MEET ALL APPLICABLE CODES.
6. ALL SEALANT TO BE SUPPLIED BY OTHERS.
7. ALL MOUNTING HARDWARE TO BE SUPPLIED BY OTHERS. (5) 11/16"Ø HOLES ARE PROVIDED TO ACCOMMODATE STUD SPACING OF 16" OR 24".
8. ALL FABRICATION DRAWINGS REFERENCED ARE FOR SHOP USE ONLY.
9. PAL NUTS ARE PROVIDED WITH ALL BOLT ASSEMBLIES.

NOTE: ASSEMBLIES SHOWN ON THIS DRAWING DO NOT INCLUDE TOWER OR DISH MOUNT, WHICH MUST BE ORDERED SEPARATELY.

FILE NO.

Standard-55G

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
1	REDRAWN INTO AUTOCAD	JDA	M.F	HA
DATE: Jan/02/2007				
2	REMOVED ROOF MOUNTING KIT AND DETAILS	JDA	JDM	HA
DATE: Jun/11/2007				

DWG REFERENCE



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MOUNTING
VRO HOUSE BRKT ASSY 25G,45G,55G TWR

DWN: GPW CHK'D: WDU DATE: Mar/22/1985

ENGR: ROB

DRAWING NO: D850221 REV: 2

FILE NO.

REVISIONS

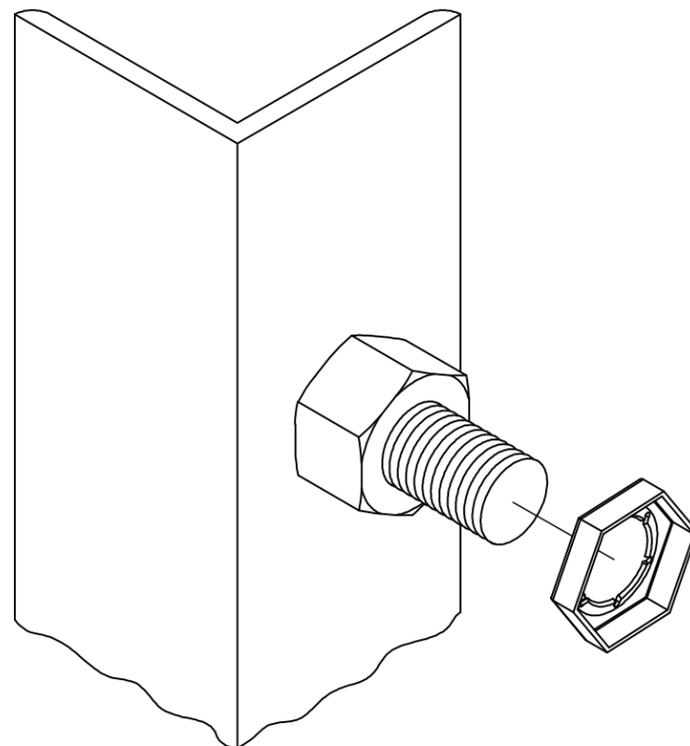
REV.	DESCRIPTION	DWN	CHK	APP
7	CHANGE NOTATION. DATE: 01/11/12	JEC	JDM	HA

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:	GHB	DATE:	07/05/79
ENGR:	TWS	SHEET #:	1 OF 1		
DRAWING NO:	A790135			REV:	7