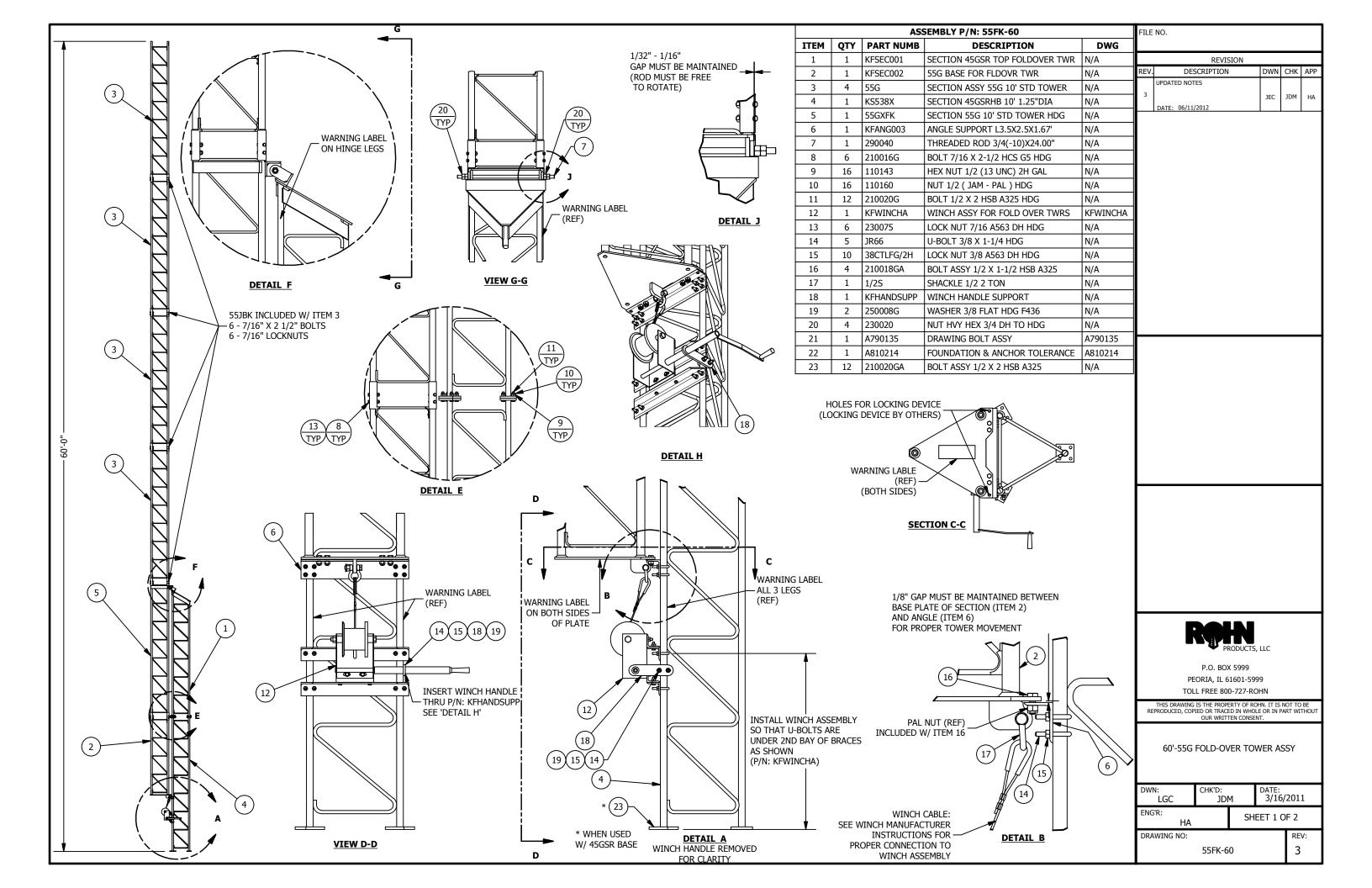
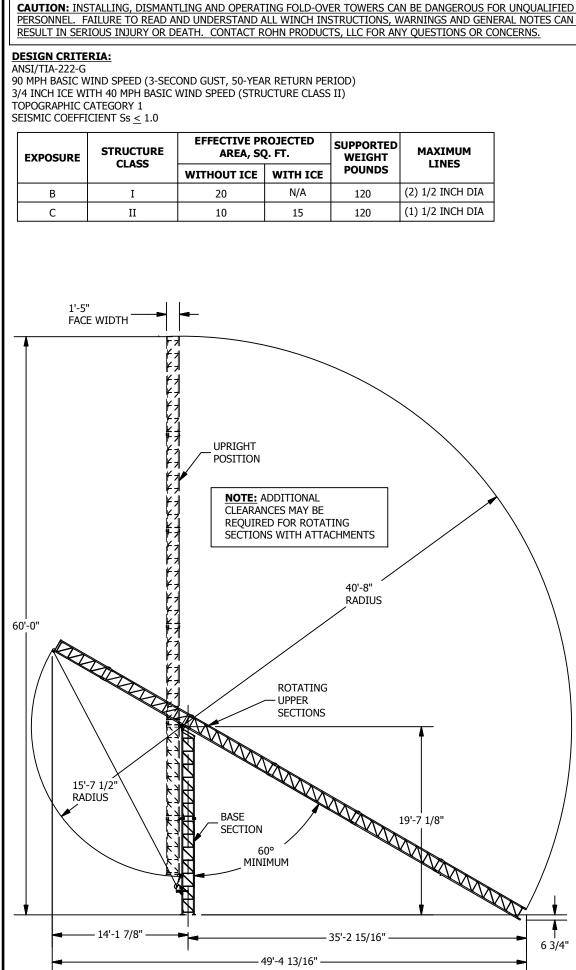


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WARNINGS:

. RAISING OR LOWERING OF TOWER SECTIONS MUST BE PERFORMED BY EXPERIENCED AND TRAINED PERSONNEL ON . DO NOT INSTALL, DISMANTLE OR ROTATE TOWER SECTIONS NEAR OVERHEAD POWER LINES. CONTACT WITH OVER DEATH.

- 3. PRIOR TO INSTALLATION OR OPERATION, READ, UNDERSTAND AND FOLLOW MANUFACTURE'S INSTRUCTIONS AND N THE WINCH AND TOWER. CONTACT THE WINCH MANUFACTURER OR ROHN FOR MISSING WINCH INSTRUCTIONS AND
- 4. BOLTS PREVENTING ROTATION OF THE UPPER TOWER SECTIONS MUST BE IN PLACE WHEN TOWER IS IN THE UPRIC UNATTENDED.
- 5. PRIOR TO OPERATION WINCH, VERIFY THAT THE PUBLISHED SUPPORTED WEIGHT LIMITS FOR THE TOWER ARE NOT TOWER AND ATTACHMENT CLEARANCES TO THE GROUND AND OTHER OBSTRUCTIONS. HIGHER WEIGHTS WILL SIG TOWER AND WINCH CABLE AND MAY RESULT IN A SUDDEN COLLAPSE.
- ENSURE WINCH CABLE IS IN GOOD CONDITION AND IS SECURELY ATTACHED PRIOR TO DISCONNECTING ROTATING BASE SECTIONS AND BEFORE OPERATING WINCH.
- STAND CLEAR OF ROTATING SECTIONS AT ALL TIMES. NEVER DETACH WINCH LINE PRIOR TO INSTALLING BOLTS CO SECTIONS TO THE FIXED BASE SECTIONS.
- DO NOT CLIMB ON ROTATING SECTIONS. BASE SECTIONS ARE INTENDED TO BE CLIMBED BY SKILLED AND COMPETI SAFETY CLIMB SYSTEM MUST BE INSTALLED FOR CLIMBING AND MUST BE ORDERED SEPARATELY.
- 9. DO NOT OPERATE TOWER WINCH WITH PERSONNEL ON THE TOWER OR WITHIN THE RADIUS OF THE ROTATING SE
- 10. DO NOT LEAVE TOWER UNATTENDED IN THE FOLDED POSITION.
- 11. DO NOT OPERATE WINCH WHEN WIND SPEED EXCEEDS 10 MPH OR WHEN ICE IS PRESENT. UNDER THESE CONDITI SECTIONS MUST BE SECURED.
- 12. LOCATE ATTACHMENTS AND ROUTE LINES ON TOWER SECTIONS TO AVOID DAMAGE DUE TO TOWER ROTATION. U PROVIDE ADEQUATE SLACK IN LINES TO AVOID CONSTRAINT DURING ROTATION.
- 13. INSPECT TOWER, WINCH, CABLE, HINGE AND ALL BOLTS FOR LOOSE, CORRODED OR DAMAGED PARTS PRIOR TO E 14. DO NOT OVER TIGHTEN BOLTS THAT PREVENT ROTATION OF THE UPPER TOWER SECTIONS. INSPECT BOLTS AND I
- BOLTS MAY HAVE BEEN PREVIOUSLY OVER TIGHTENED IF NUTS CAN NOT BE FREELY RUN UP AND DOWN THE ENTI BOLT BY HAND. REPLACEMENT BOLTS AND NUTS MUST MEET ASTM A325 STANDARDS. INSTALL A NUT LOCKING DE
- 15. CONTACT ROHN FOR ALL REPLACEMENT PARTS. DO NOT REPLACE WINCH CABLE, BOLTS OR ANY OTHER ITEM WIT MATERIAL.

GENERAL NOTES:

- THE SUITABILITY OF THE FOLD-OVER TOWER AND THE REFERENCED STANDARD FOUNDATIONS FOR A SPECIFIC API VERIFIED PRIOR TO INSTALLATION BY THE PURCHASER BASED ON SITE-SPECIFIC DATA. ALL USERS ARE SOLELY RE INSTALLATION, OPERATION, MAINTENANCE, INSPECTION AND OTHER WORK AND THE COMPLIANCE WITH ALL LOC REQUIREMENTS.
- 2. INSTALLATION, OPERATION AND DISMANTLING MUST BE PREFORMED BY EXPERIENCED AND TRAINED PERSONNEL
- 3. THE WEIGHT AND EFFECTIVE PROJECTED AREA OF ALL ATTACHMENTS AND LINES MUST NOT EXCEED THE DESIGN
- 4. DESIGN ASSEMES LEVEL GRADE AT TOWER SITE. LOWER EFFECTIVE PROJECTED AREAS THAN SPECIFIED BELOW API
- TOWERS OR FOR SITES LOCATED ON UNUSUAL TERRAIN. CONTACT ROHN FOR SITE-SPECIFIC DESIGN LIMITATIONS 5. THE FOLD-OVER TOWER IS NOT INTENDED TO BE USED AS A CRANE OR LIFTING DEVICE FOR CONSTRUCTION. ALL I
- PERMANENTLY ATTACHED TO THE TOWER BEFORE RAISING OR LOWERING.
- 6. ALL FIELD CONNECTIONS ARE BOLTED. A NUT LOCKING DEVICE OR SELF-LOCKING NUT IS PROVIDED FOR ALL BOLT 7. TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
- 8. PURCHASER MUST VERIFY THAT THE INSTALLATION IS IN COMFORMANCE WITH LOCAL, STATE AND FEDERAL REQUIDESTRUCTION MARKING AND LIGHTING.
- TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONI DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
- DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF ACCORDANCE WITH ANSI/TIA-222-G.
- 11. INSTALLATION MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. RESISTANCE TO GROUN OHMS. GROUNDING MATERIAL MUST BE ORDERED SEPARATELY.
- 12. ALL TOWER ACCESSORIES AND/OR MOUNTS MUST BE ORDERED SEPARATELY.
- 13. TOWER ORIENTATION TO BE DETERMINED BY THE PURCHASER.
- 14. FOUNDATIONS MUST BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE
- 15. INSTALL WARNING SIGN PROVIDED WITH TOWER (P/N ACWS) AT BASE OF THE TOWER IN A VISIBLE LOCATION.
- 16. WARNING LABELS ARE APPLIED AT THE FACTORY AT THE LOCATIONS INDICATED ON THE SECTION ASSEMBLY DRA REPLACEMENT OF DAMAGED OR MISSING WARNING LABELS.
- 17. INSTALL LOCKING DEVICE IN HOLES PROVIDED AT THE BASE OF THE ROTATING SECTIONS TO PREVENT UNAUTHO (LOCKING DEVICE TO BE PROVIDED BY OTHERS).

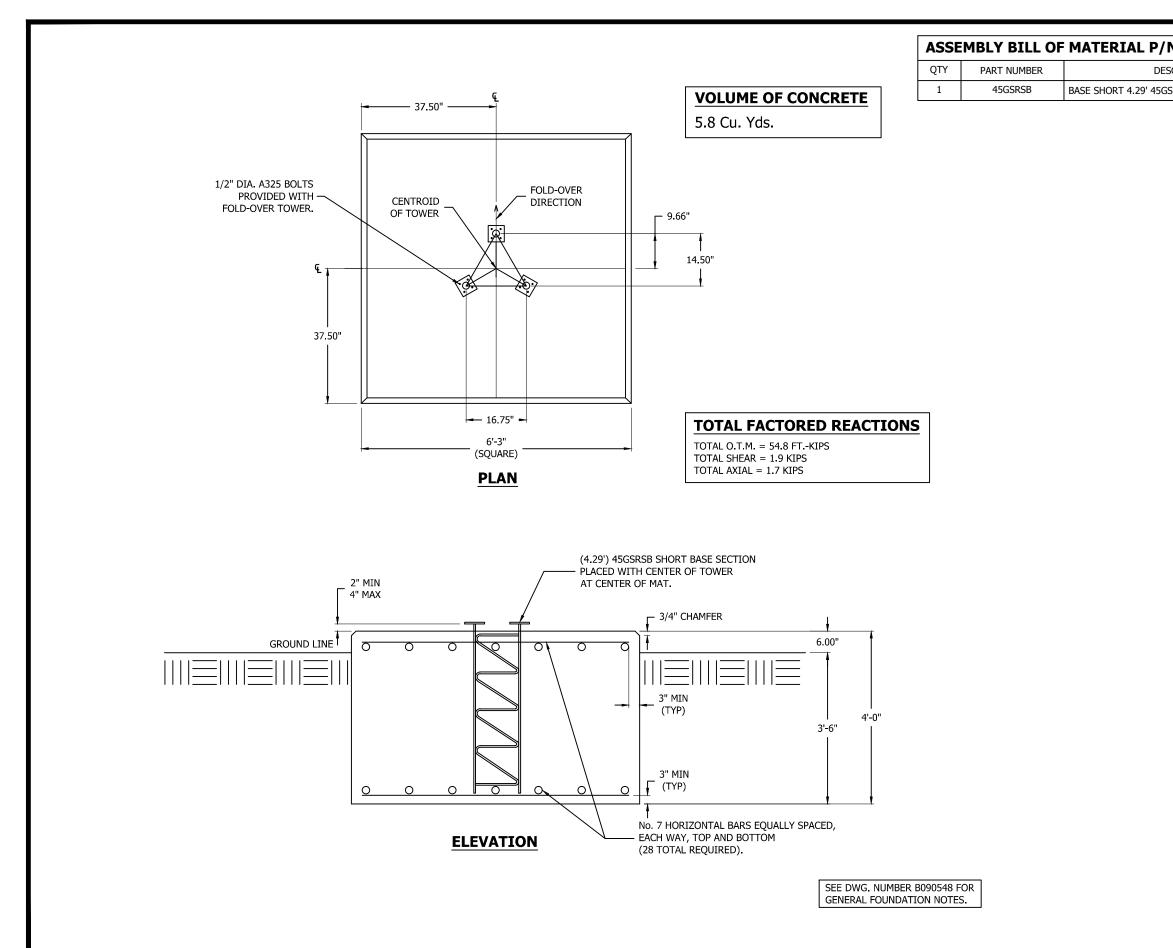
NOTES:

- 1. THE SUM OF THE EFFECTIVE PROJECTED AREA (E.P.A) AND WEIGHTS OF DISCRETE APPURTENANCES (INCLUDING MO AND ALL OTHER ATTACHMENTS) MUST NOT EXCEED THE VALUES TABULATED.
- 2. DISTRIBUTED APPURTENANCES MUST NOT EXCEED THE E.P.A. AND WEIGHT EQUIVALENT TO THE NUMBER AND SIZE 3. ALL LOADS MUST BE MOUNTED SYMMETRICALLY ON THE TOWER. MOUNTING ARRANGEMENT THAT SUBJECT THE TO
- SIGNIFICANTLY REDUCE THE TABULATED E.P.A. AND WEIGHT VALUES. 4. WHEN THE TOWER IS IN THE FOLDED CONFIGURATION, THE DESIGN WIND SPEED IS CONSIDERED TO BE 10 MPH W

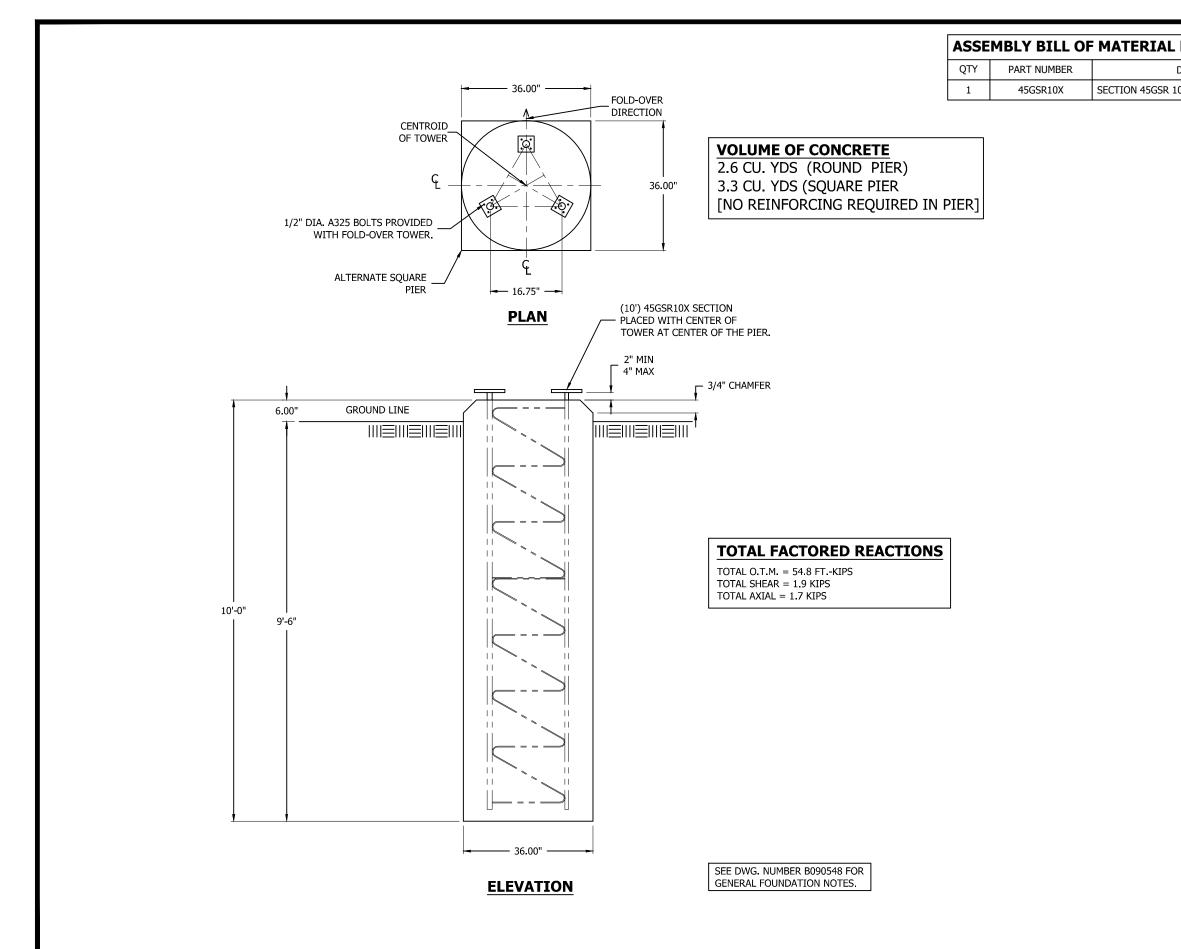
	S	ANDARD FOUNDATION OPT
TOTAL FACTORED REACTIONS	P/N	DESCRIPTION
AXIAL LOAD: = 1.7 KIPS	55FK-FDNMAT	FOUNDATION DETAIL (MAT)
SHEAR: = 1.9 KIPS OVERTURNING MOMENT: = 54.8 FT-KIPS	55FK-FDNDP	FOUNDATION DETAIL (PIER)
OVERTORATING MOMENT: = 54.011 PRIPS	55FK-FDNPRECAST	FOUNDATION DETAIL (PRE-CA

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only. /Alues tabulated below. Ply for roof mounted 5. Loads must be								
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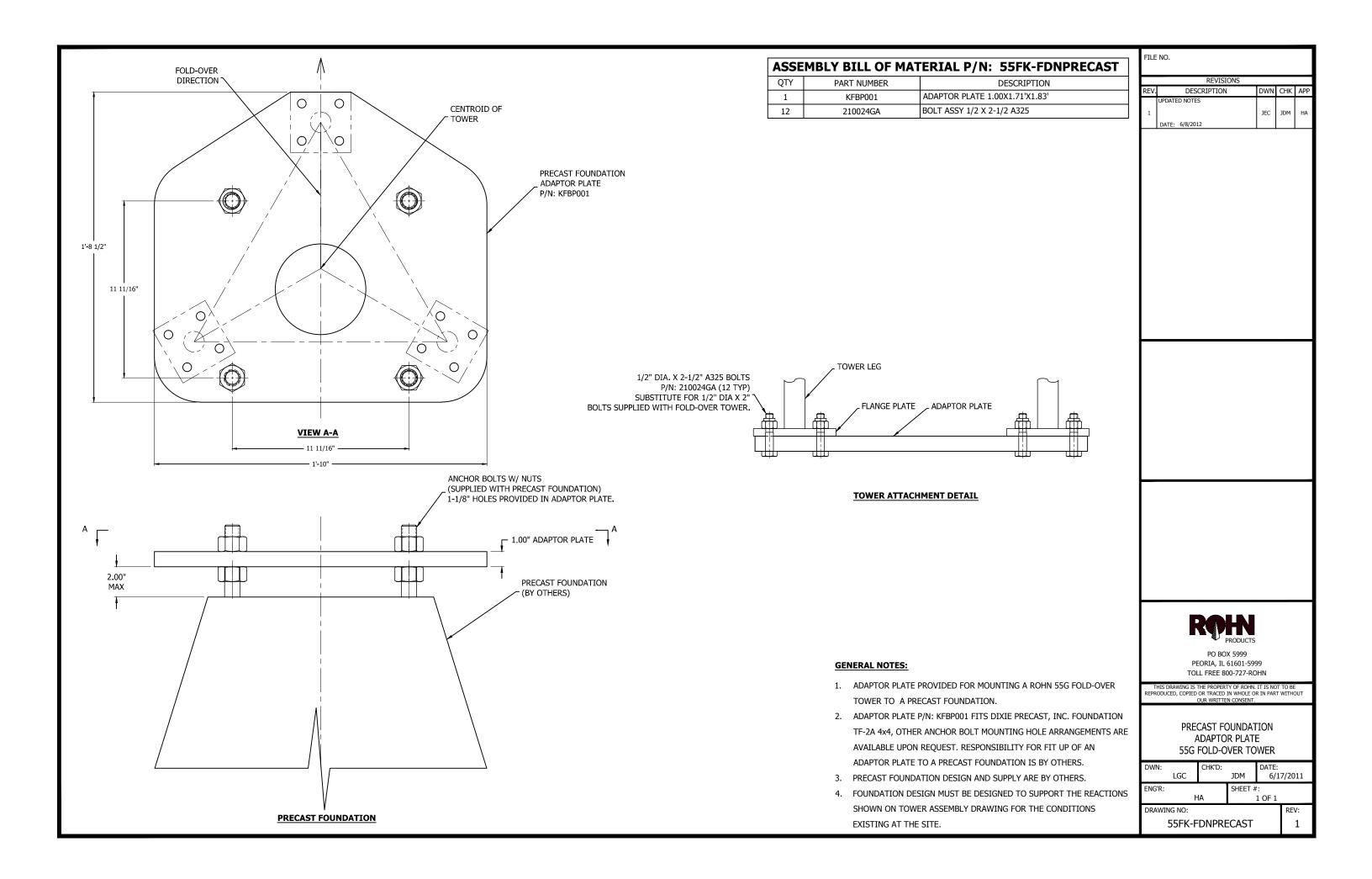
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	*1) FOLLOW WINCH INSTRUCTIONS AND WARNINGS PROVIDED BY WINCH	ITE QT PART NUMBER	DESCRIPTION	REVISION
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	NOT SHOWN FOR CLARITY. 2) ASSEMBLE UPPER AND LOWER BRACKETS FIRST.	2 1 KFANG006	ANGLE SUPP L2.5X2.5X.25X7.00"	ADDED CALL OUTS FOR UPPER AND LOWER BRACKETS
	-,	3 2 KFANG005	ANGEL SUPP L2.5X2.5X.25X1.67'	1 LGC JDM HA
		4 7 210005G	BOLT 3/8 X 1-1/4 HCS G5 HDG	
9		5 1 KFWINCH	WINCH BOX ASSEMBLY	-
		6 3 250008G * 7 1 WINCHCABLE	WASHER 3/8 FLAT HDG F436 WINCHCABLE	-
		* 7 1 WINCHCABLE 8 15 38CTLFG/2H	LOCK NUT 3/8 A563 DH HDG	-
		9 4 JR66	U-BOLT 3/8 X 1-1/4 HDG	-
		* 10 1 WINCHHANDLE	ROTATING HANDLE FOR WINCH	-
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				WINCH ASSEMBLY
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STANDARD FOUNDATION NOTES ANSI/TIA-222-G

 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)	Ф (deg)	Φ (lb/ft3) (deg) [kN/m3]	C (psf)	Ultimate Bearing (psf) [kPa]		Ultimate Skin Friction (psf)	k (pci)	E 50
[blows/m]	(ucg)		[kPa]	Shallow Fnds.	Deep Fnds.	[kPa]	[kN/m3]	
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.
- 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) M 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 (51 mm).
- 13. SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- 14. FOUNDATION DESIGNS ASSUME STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH (20 MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A M 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 AN 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.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRUPLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- 19. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONC MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY I THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- 20. FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTI SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
- 21. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL EXCEPT FOR PIERS OR PIER A FOUNDATIONS. FORMS FOR PIERS SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL
- 22. CONSTRUCTION JOINTS, IF REQUIRED IN PIER MUST BE AT LEAST 12 INCHES (305 mm) E BOTTOM OF EMBEDMENTS AND MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLI' 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 PROPO OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBE CASING REMOVAL. DRILLING FLUID, IF USED, SHALL BE FULLY DISPLACED BY CONCRETE SHALL NOT BE DETRIMENTAL TO CONCRETE OR SURROUNDING SOIL. CONTAMINATED CO 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 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 CORROSIO PROTECTION MAY BE REQUIRED FOR STEEL GUY ANCHORS IN DIRECT CONTACT WITH SC DESIGN ASSUMES PERIODIC INSPECTIONS WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE TO DETERMINE IF ADDITIONAL ANCHOR CORROSION PROTECTION MEASURE BE IMPLEMENTED BASED ON OBSERVED SITE-SPECIFIC CONDITIONS.

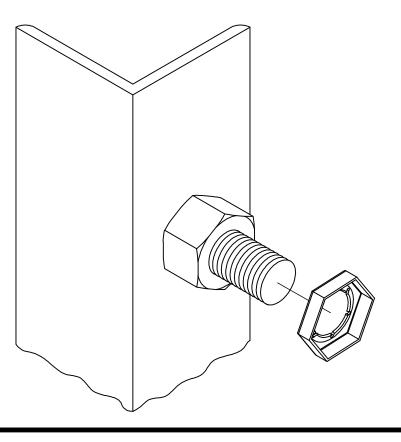
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ASSEMBLY BOLT INSTALLATION

- 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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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

- 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.

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