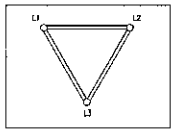
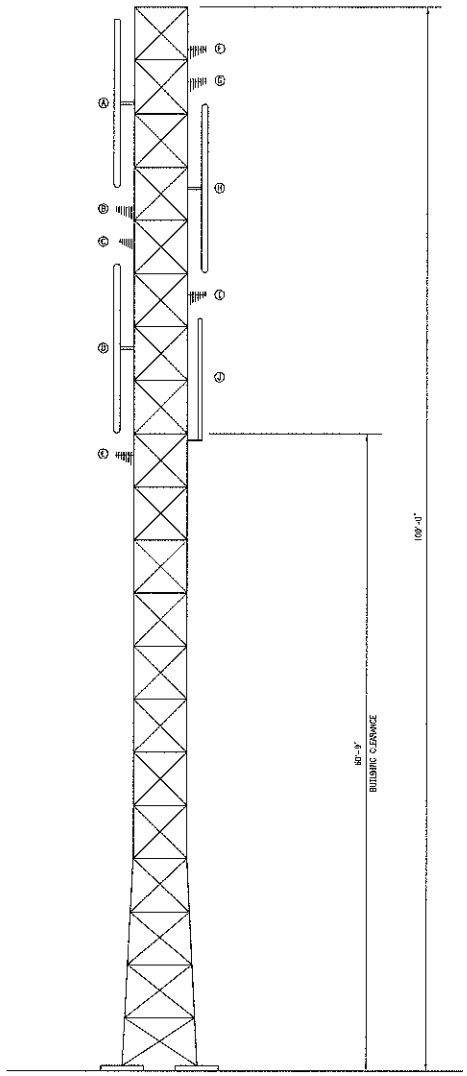
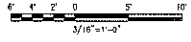


Antenna ID	System	Frequency Band	Frequency (MHz)	Receiver Site	Leg 1 (NW Leg) Antenna Mounting Height (Feet Above Ground)	Leg 2 (NE Leg) Antenna Mounting Height (Feet Above Ground)	Antenna Height to Tip (Feet Above Ground)	Antenna Azimuth (Degrees)	Antenna Type
A	Conxex	VHF	37.5000	New Milford	91.0	–	98.9	322	Dipole
B	Meter Services	UHF	451.0750	Pine Street	81.0	–	81.6	203	Yagi
C	Conxex	UHF	814.0625	Seymour	78.6	–	78.5	322	Yagi
D	LMR	VHF	47.8200	All West Sites	68.6	–	75.8	264	Dipole
E	Meter Services	UHF	451.0750	Inwood Tower	58.6	–	56.6	264	Yagi
F	Meter Services	UHF	451.1500	Wix Avenue	–	98.0	96.6	26	Yagi
G	Meter Services	UHF	451.1500	West Rock	–	93.0	93.6	12	Yagi
H	LMR	VHF	47.9400	All East Sites	–	83.0	80.8	51	Dipole
I	Capacitors	UHF	451.2000	West Rock	–	72.0	73.6	12	Yagi
J	Recloser (Fiture)	900	952.6938	Distributed	–	58.4	70.6	N/A	Omni





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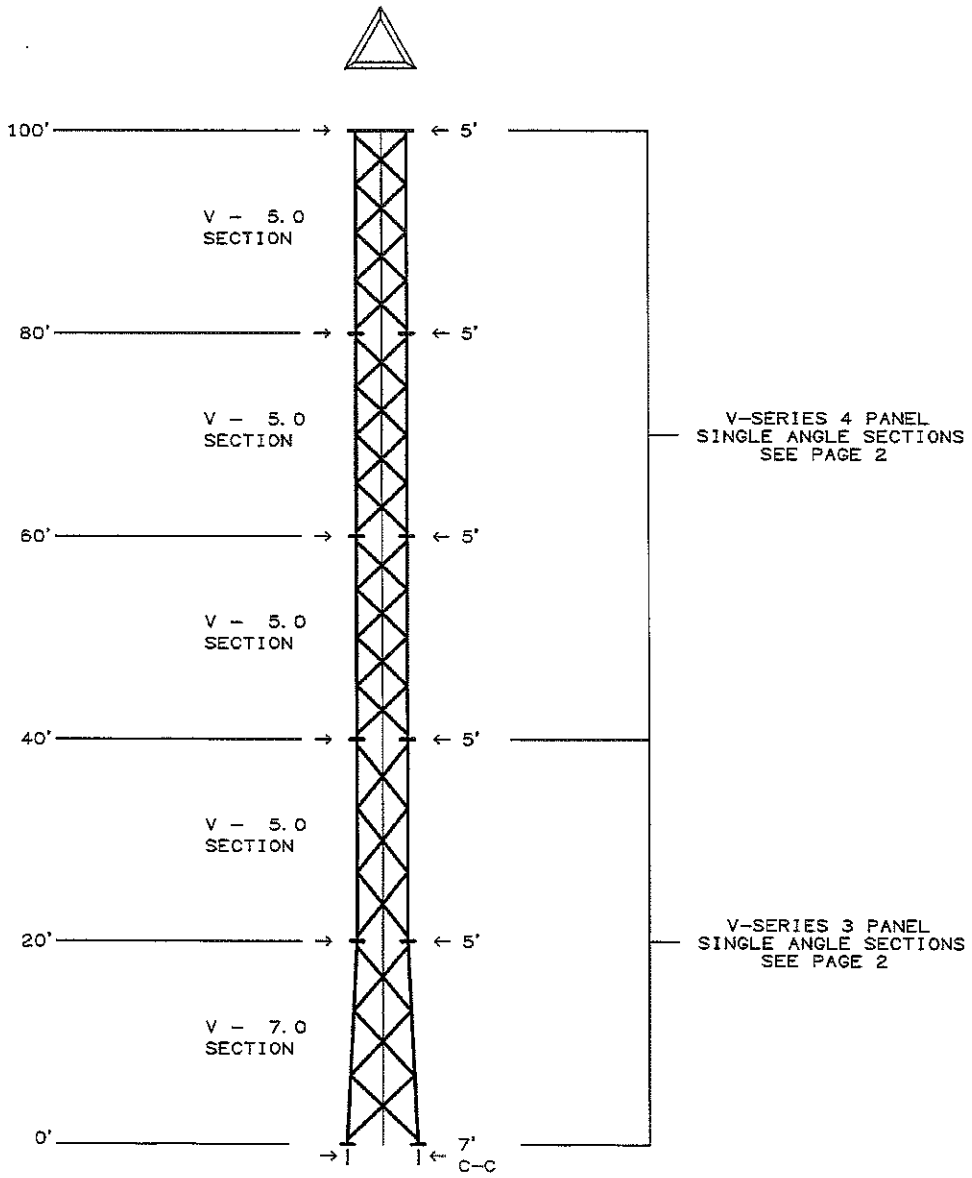
PROJECT NO. 186259									
DRAWN AP									
DESIGNED CB									
APPROVED CT									
CHECKED JH	No	Date	Revision	By	Chkd.	Engr.	Supv.		

The United Illuminating Company
157 Church St. New Haven, CT. 06506

Drawn	Date 04/15/2010	Scale: 3/16"=1'-0"	
Chkd.	Design Engr.	Design Supv.	

RADIO ANTENNA TOWER
UI CENTRAL FACILITY
ORANGE, CT

CAD FILE NAME	SEQUENCE No.	DRAWING NUMBER
		179-CFTW-T101



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William R. Heiden III, CT Professional Engineer # 23038

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ORANGE, CT
V-7.0 X 100'

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PAGE 1 OF 7

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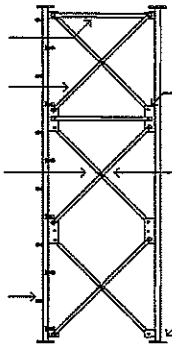
PIPE LEG SECTION DATA 0' - 100' ELEVATION

SECTION			LEG								DIAGONAL BRACE								HOR
#	LENGTH	* WEIGHT	NOM SIZE	WALL	GRADE	CLIMBING QTY	CLIMBING PART#	NON-CLIMB QTY	NON-CLIMB PART#	CONNECT BOLT+ DIAM	CONNECT BOLT+ LENGTH	PART NUMBER ** #1	#2	#3	#4	ANGLE FACE	ANGLE THICK	CONNECT BOLT DIAM	CONNECT BOLT LENGTH	CENTER SPACER	QTY
V- 5.0	20'	850#	2-1/2"	0.203	A572-50	1	226160	2	226161	3/4"	3-1/2"	227077	227077	227077	227077	2"	1/8"	3/4"	2-1/4"	116467	1
V- 5.0	20'	610#	2-1/2"	0.203	A572-50	1	226160	2	226161	3/4"	3-1/2"	227077	227077	227077	227077	2"	1/8"	3/4"	2-1/4"	116467	
V- 5.0	20'	720#	3"	0.216	A572-50	1	226769	2	226770	3/4"	3-1/2"	227077	227077	227077	227077	2"	1/8"	3/4"	2-1/4"	116467	
V- 5.0	20'	900#	4"	0.237	A572-50	1	226184	2	226185	3/4"	3-1/2"	227078	227078	227078		2"	1/8"	3/4"	2-1/4"	116467	
V- 7.0	20'	1280#	5"	0.258	A572-50	1	226852	2	226853			226189	226188	226190		2"	3/16"	3/4"	2-1/4"	124838	

+ AT BOTTOM OF SECTION
* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY. ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.
** PANELS ARE NUMBERED BEGINNING AT THE BOTTOM OF THE SECTION.

HORIZONTAL DATA		
HORIZ HT	IN SEC#	HORIZ PART#
100	V- 5.0	227584

TYPICAL PIPE LEG SECTION ASSEMBLY 0' - 100' ELEVATION



HORIZONTALS AS REQUIRED. SEE TABLE TO LEFT FOR ELEVATION AND PART #.

DIAGONAL BRACE - SEE TABLE ABOVE FOR PART NUMBER.

DIAGONAL CENTER CONNECTION - 5/8" X 2-1/4" BOLT

LEG ASSEMBLY - SEE TABLE ABOVE FOR PART NUMBER.

DIAGONAL CONNECTION BOLT - SEE SECTION TABLE ABOVE FOR SIZE.

DIAGONAL CENTER SPACER - SEE TABLE ABOVE FOR PART NUMBER.

LEG CONNECTION - SEE TABLE ABOVE FOR BOLT SIZE.

STATE OF CONNECTICUT
WILLIAM HEIDEN III
No. 23038
LICENSED PROFESSIONAL ENGINEER

DEC 9 2009

William R. Heiden III, CT Professional Engineer # 23038

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PAGE 2 OF 7

GENERAL NOTES

1. TOWER DESIGN CONFORMS TO STANDARD TIA-222-G UTILIZING AN 115 MPH 3-SEC GUST BASIC WIND SPEED WITH A STRUCTURE CLASS OF III, TOPOGRAPHIC CATEGORY OF 1 AND EXPOSURE C CRITERIA WITH NO ICE.
   TOWER DESIGN CONFORMS TO STANDARD TIA-222-G UTILIZING AN 50 MPH 3-SEC GUST BASIC WIND SPEED WITH A STRUCTURE CLASS OF III, TOPOGRAPHIC CATEGORY OF 1 AND EXPOSURE C CRITERIA WITH .75" RADIAL ICE.
2. NO TWIST AND SWAY LIMITATIONS SPECIFIED OR USED FOR THIS TOWER.
3. MATERIAL: (A) SOLID RODS TO ASTM A572 GRADE 50. (B) ANGLES TO ASTM A36. (C) ANTENNA MOUNTING PIPE TO BE ASTM A500 GRADE B. (D) STEEL PLATES TO ASTM A36. (E) CONNECTION BOLTS TO ASTM A325 OR ASTM A449 (Fu=120 KSI AND Fy=92 KSI) AND ANCHOR BOLTS TO ASTM F1554 (Fu=150 KSI AND Fy=105 KSI). (F) TOWER LEG PIPE TO BE ASTM A500 GRADE B/C WITH 47KSI MIN. YIELD STRENGTH
4. BASE REACTIONS PER TIA-222-G FOR 115 MPH BASIC WIND SPEED WITH NO ICE (REACTIONS INCLUDE TIA-222-G LOAD FACTORS): TOTAL WEIGHT = 6.0 KIPS. MAXIMUM COMPRESSION = 128.0 KIPS PER LEG. MOMENT = 764.0 KIP-FT. MAXIMUM UPLIFT = 115.0 KIPS PER LEG. MAXIMUM SHEAR = 14.0 KIPS TOTAL.
5. BASE REACTIONS PER TIA-222-G FOR 50 MPH BASIC WIND SPEED WITH 0.75" RADIAL ICE (REACTIONS INCLUDE TIA-222-G LOAD FACTORS): TOTAL WEIGHT = 30.0 KIPS. MOMENT = 202.0 KIP-FT. MAXIMUM SHEAR = 3.0 KIPS TOTAL.
6. FINISH: ALL BOLTS ARE GALVANIZED IN ACCORDANCE WITH ASTM A153 (HOT DIPPED) OR ASTM B695 CLASS 50 (MECHANICAL). ALL OTHER STRUCTURAL MATERIALS ARE GALVANIZED IN ACCORDANCE WITH ASTM123.
7. ANTENNAS: 96'-(1) ANDREW DB436-E LEG MOUNTED WITH 7/8" LINE
   91'-(1) SINCLAIR 37 MHZ (SD11D ASSUMED) LEG MOUNTED WITH 7/8"LINE
   87'-(1) ANDREW DB436-E LEG MOUNTED WITH 7/8" LINE
   81'-(1) SINCLAIR 48 MHZ (SD11D ASSUMED) LEG MOUNTED WITH 7/8" LINES
   81'-(1) ANDREW DB436-E LEG MOUNTED WITH 7/8" LINE
   79'-(1) ANDREW DB436-E LEG MOUNTED WITH 7/8" LINE
   75'-(1) SCALA 742 192 LEG MOUNTED WITH 7/8" LINE
   69'-(1) SINCLAIR 48 MHZ (SD11D ASSUMED) LEG MOUNTED WITH 7/8" LINES
   62'-(1) ANDREW DB436-E LEG MOUNTED WITH 7/8" LINE
   NOTE: (A) ELEVATIONS ARE TO THE BOTTOM OF THE ANTENNAS EXCEPT FOR MICROWAVE DISHES, WHICH ARE TO THE CENTERLINE. (B) ALL TRANSMISSION LINES MUST BE PLACED ON PIROD SUPPLIED LINE BRACKETS.
8. REMOVE FOUNDATION TEMPLATE PRIOR TO ERECTING TOWER. INSTALL BASE SECTION WITH MAXIMUM OF 2" CLEARANCE ABOVE CONCRETE. SEE BASE SECTION PLACEMENT PAGE FOR MORE INFORMATION.
9. MIN. WELDS 5/16" UNLESS OTHERWISE SPECIFIED. ALL WELDING TO CONFORM TO AWS D1.1 SPECIFICATIONS .
10. THIS DRAWING DOES NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, SEQUENCES AND PROCEDURES.
11. ALL BOLTS AND NUTS MUST BE IN PLACE BEFORE THE ADJOINING SECTIONS ARE INSTALLED.
12. ALL STRUCTURAL BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION AS DEFINED BY AISC SPECIFICATION UNLESS OTHERWISE NOTED.
13. ATTENTION TOWER ERECTOR: COAT ALL BOLT ASSEMBLIES THAT USE PIN LOCK NUTS WITH ZINC RICH COLD GALVANIZING COMPOUND AFTER FINAL TIGHTNENING.
14. TIA-222-G GROUNDING FOR TOWER.

FOUNDATION NOTES

1. SOIL AS PER REPORT BY GEI CONSULTANTS, INC., DATED: 11/18/09 (PROJECT: 091100-1-1004)
2. CONCRETE TO BE 3000 PSI @ 28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 (2002) BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR NOT PERMITTED.
3. A COLD JOINT IS PERMISSIBLE UPON CONSULTATION WITH PIROD. ALL COLD JOINTS SHALL BE COATED WITH BONDING AGENTS PRIOR TO SECOND POUR.
4. ALL FILL SHOULD BE PLACED IN LOOSE LEVEL LIFTS OF NO MORE THAN 8" THICK. FILL MATERIALS SHOULD BE CLEAN AND FREE OF ORGANIC AND FROZEN MATERIALS OR ANY OTHER DELETERIOUS MATERIALS. COMPACT FILL TO 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698.
5. BENDING, STRAIGHTENING OR REALIGNING (HOT OR COLD) OF THE ANCHOR BOLTS BY ANY METHOD IS PROHIBITED.
6. CROWN TOP OF FOUNDATION FOR PROPER DRAINAGE.
7. OVER-EXCAVATION IS REQUIRED TO A MINIMUM OF 2 FT. BELOW THE FOUNDATION BEARING ELEVATION (APPROX. 7'-6"). THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED, AND THE UNDERCUT EXCAVATION MUST BE BACKFILLED WITH STRUCTURAL FILL OR ACCEPTABLE ONSITE SOIL.
8. BACKFILL MATERIAL MUST BE APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
9. THE ON-SITE GEOTECHNICAL ENGINEER SHALL CONFIRM THAT THE INSITU SOIL STRENGTHS MEET OR EXCEED THOSE PARAMETERS GIVEN IN THE SOIL REPORT.

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William R. Heiden III, CT Professional Engineer # 23038

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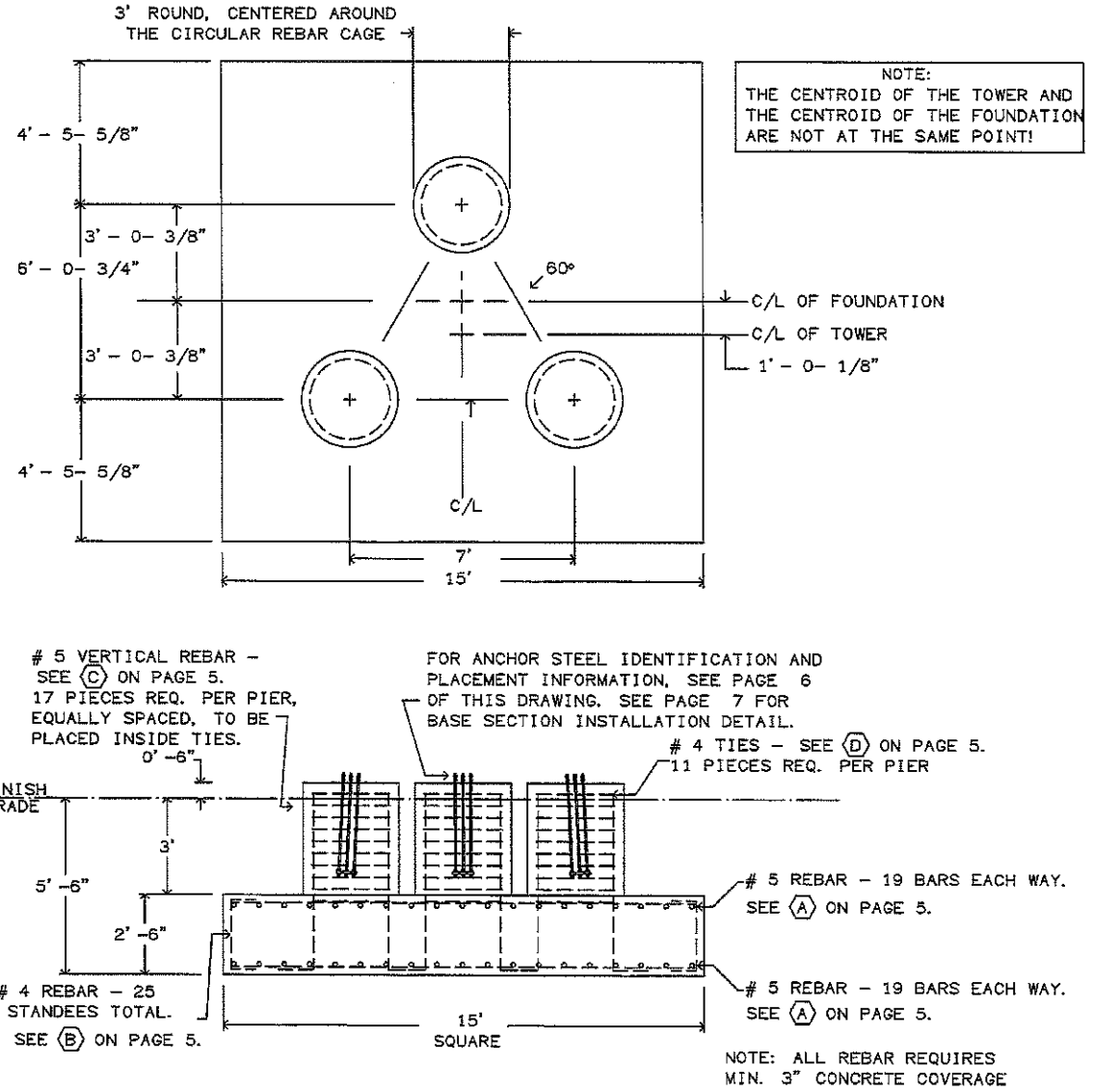

TOWER FOUNDATION

23.6 CUBIC YARDS CONCRETE REQUIRED

FOR INSTALLATION SPECIFICATIONS AND ADDITIONAL INFORMATION, SEE PAGE 3 OF THIS DRAWING.

STATE OF CONNECTICUT WILLIAM HEIDEN III No. 23038 LICENSED PROFESSIONAL ENGINEER

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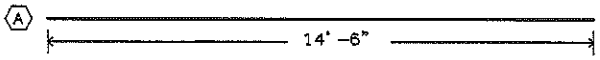
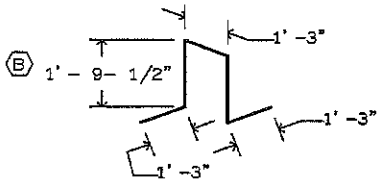
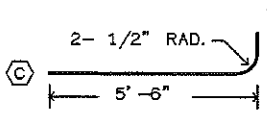


5 REBAR - 76 PIECES REQ. TOTAL
APPROX WT = 15.1# EACH, 1148# TOTAL

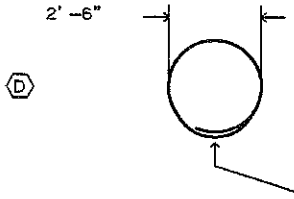
REBAR SUPPORTS MAY CONSIST OF ANY ACCEPTABLE MEANS OF SECURELY SUPPORTING THE TOP REINFORCEMENT GRID ABOVE THE BOTTOM REINFORCEMENT GRID WHILE MAINTAINING A SEPARATION OF 2' (OUTSIDE REBAR TO OUTSIDE REBAR).



4 REBAR - 25 PIECES REQUIRED TOTAL
TYPE 26 STANDEE PLACED BETWEEN REBAR GRIDS ON NOMINAL 4' SPACING THROUGHOUT
APPROX UNBENT LENGTH = 7' - 3"
APPROX WT = 4.8# EACH, 120# TOTAL



5 REBAR - 51 PIECES REQUIRED TOTAL
APPROX UNBENT LENGTH = 6' - 6- 1/8"
APPROX WT = 6.8# EACH, 347# TOTAL

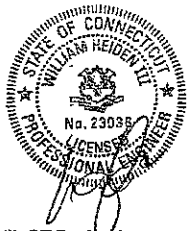


4 REBAR - 33 PIECES REQUIRED TOTAL
APPROX UNBENT LENGTH = 9' - 7- 5/8"
APPROX WT = 6.4# EACH, 211# TOTAL

LAP DIMENSION: 1' - 9- 3/8"
PLACE CIRCULAR TIES SO THAT LAPS ON ADJACENT TIES ARE 180 DEGREES APART. PLACE ONE TIE AT TOP OF PAD AND TWO TIES AT TOP OF PIER REBAR. EQUALLY SPACE REMAINING TIES ALONG PIER.

REBAR DETAIL

TOTAL APPROX REBAR WEIGHT = 1826#
REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS.



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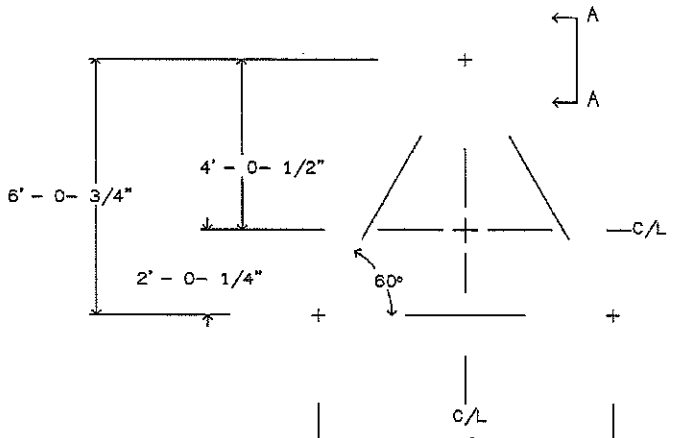
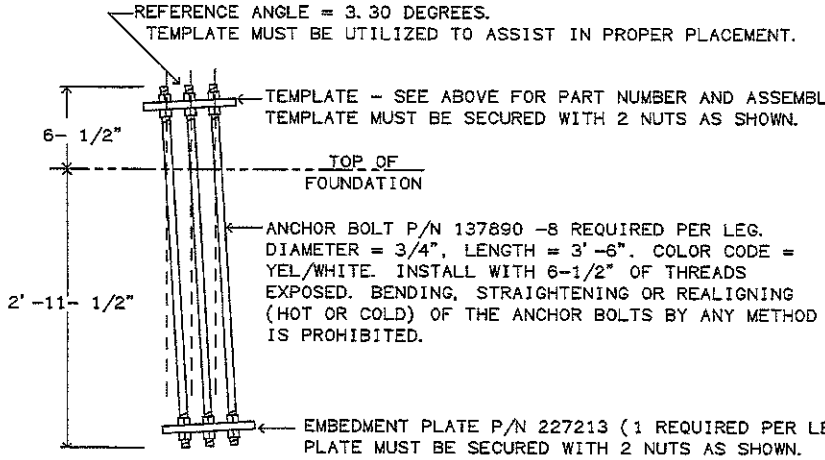


TOWER ANCHOR STEEL PLACEMENT - TOP VIEW

TEMPLATE ASSEMBLY P/N 227123 IS REQUIRED FOR INSTALLATION AND MUST BE PLACED AS SHOWN. SEE DRAWING # 227123 FOR TEMPLATE ASSEMBLY DETAILS. SEE PAGE 4 FOR TOWER C/L LOCATION RELATIVE TO THE FOUNDATION LAYOUT. TEMPLATE PLACEMENT +/- 3". EACH LEG MUST BE CENTERED IN PIER WITHIN +/- 10% OF PIER DIAMETER. TEMPLATE MUST BE LEVEL +/- 1 DEGREE. INSTALL TEMPLATE WITH SUFFICIENT SPACE BENEATH (2" MINIMUM) TO PERMIT FINISHING OF CONCRETE AND TO FACILITATE TEMPLATE REMOVAL PRIOR TO TOWER ERECTION.

SEE PAGE 7 FOR BASE SECTION INSTALLATION DETAIL.



VIEW A - A - ANCHOR BOLT INSTALLATION DETAIL (NOT TO SCALE)

ATTENTION CONTRACTOR INSTALLING THE ANCHOR BOLTS!

3/4" DIAMETER ANCHOR BOLTS FOR TAPERED TOWER.

VERIFY THE PART NUMBERS AND SIZES FOR ALL COMPONENTS ON THIS PAGE AND PAGE 7.

IF THERE ARE ANY DISCREPANCIES, PLEASE NOTIFY PIROD, INC. PRIOR TO INSTALLATION!!

DEC 9

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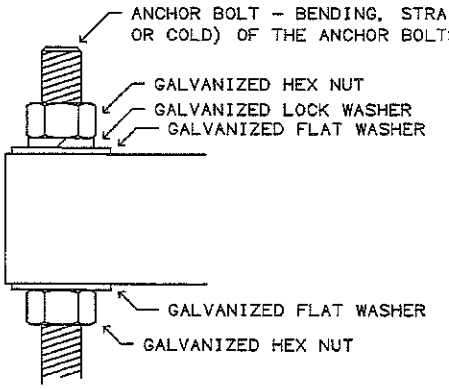

BASE SECTION INSTALLATION DETAIL

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A	ADDED FOUNDATION PER SOIL REPORT	WRH	12/09/2009	APPROVED/ENG.	WRH	12/9/2009	
REV	DESCRIPTION OF REVISIONS	INI	DATE	APPROVED/FOUND.	N/A		
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