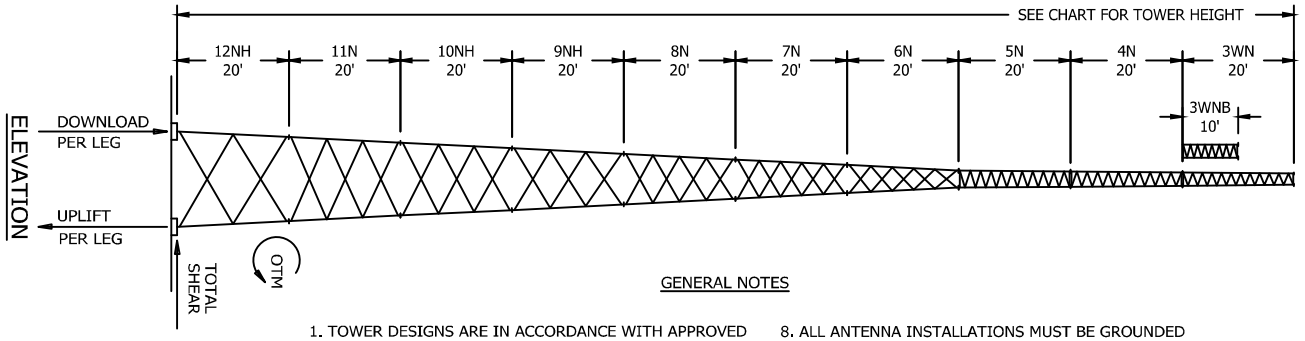
TOWER ASSEMBLY NUMBER	TOWER HEIGHT (FEET)	TOP SECTION	BASE SECTION			ALLOWABLE PROJECTED AREA (SQ. FT.)				BASE REACTIONS			
			PART NO.	* A-BOLTS 12 REQ'D	FACE SPREAD	TOWER TOP		30 FEET BELOW TOP		DOWNLOAD (POUNDS)	UPLIFT (POUNDS)	TOTAL SHEAR (POUNDS)	OTM (FOOT-POUNDS)
						ROUNDS	FLATS	ROUNDS	FLATS				
SS040D90	40	3WN	4N	SB4	2' 2	16.7	10.0	20.0	12.0	20,800	19,800	1,700	38,100
SS050D90	50	3WNB	5N	SB5	2' 6	16.7	10.0	20.0	12.0	27,900	26,600	1,950	58,900
SS060D90	60	3WN	5N	SB5	2' 6	14.2	8.5	17.5	10.5	33,700	32,400	1,930	71,400
SS070D90	70	3WNB	6N62	5/8X42	4' 6 1/4	14.2	8.5	17.5	10.5	27,100	25,500	2,760	103,100
SS080D90	80	3WN	6N62	5/8X42	4' 6 1/4	12.5	7.5	15.8	9.5	31,300	29,600	2,820	119,300
SS090D90	90	3WNB	7N165	5/8X42	6' 6 3/4	12.5	7.5	15.8	9.5	31,100	29,100	3,850	169,900
SS100D90	100	3WN	7N165	5/8X42	6' 6 3/4	10.0	6.0	13.3	8.0	33,100	30,900	3,830	180,600
SS110D90	110	3WNB	8N106	5/8X42	8' 6 3/4	10.0	6.0	13.3	8.0	36,000	33,400	5,070	255,500
SS120D90	120	3WN	8N106	5/8X42	8' 6 3/4	8.3	5.0	11.7	7.0	38,100	35,400	5,100	270,300
SS130D90	130	3WNB	9N82	5/8X42	10' 6 3/4	8.3	5.0	11.7	7.0	42,900	39,700	6,520	375,800
SS140D90	140	3WN	9N82	5/8X42	10' 6 3/4	6.7	4.0	10.0	6.0	44,500	41,200	6,540	389,800
SS150D90	150	3WNB	10N183	3/4X48	12' 7 1/4	6.7	4.0	10.0	6.0	50,900	47,000	8,280	532,100
SS160D90	160	3WN	10N183	3/4X48	12' 7 1/4	5.8	3.5	8.3	5.0	52,700	48,700	8,330	550,900
SS170D90	170	3WNB	11N332	7/8X60	14' 7 7/8	5.8	3.5	8.3	5.0	60,900	56,000	10,570	739,500
SS180D90	180	3WN	11N332	7/8X60	14' 7 7/8	5.0	3.0	7.5	4.5	62,900	57,900	10,650	763,700
SS190D90	190	3WNB	12N18	7/8X60	16' 8 3/8	5.0	3.0	7.5	4.5	73,000	66,900	13,060	1,007,000

* ANCHOR BOLTS OR SHORT BASE PART NO.



GENERAL NOTES

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-F-1996 (NO ICE).
2. EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.
3. TOWER DESIGNS ASSUME ALLOWABLE PROJECTED AREAS ARE SYMMETRICALLY PLACED ON THE TOWER.
4. DESIGNS ASSUME ONE 7/8 LINE TO TOP AND TWO 7/8 LINES TO 30 FEET BELOW TOP, ONE PER FACE.
5. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
6. TOWER ERECTION AND DISMANTLING MUST BE DONE BY QUALIFIED AND EXPERIENCED PERSONNEL.
7. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
8. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
9. FOR ADDITIONAL BRACING, GROUTING AND DRAINAGE DETAILS SEE DRAWING SK720305.
10. FOR TAPERED TOP DETAILS SEE DRAWING SK670407.
11. ALL TOWERS WITH 3WN TOP SECTION PROVIDED WITH (P/N 3TT) TAPERED TOP.
12. ALL TOWERS WITH 3WNB TOP SECTION PROVIDED WITH (P/N 4TTN) TAPERED TOP.
13. FOR STEP BOLT DETAILS SEE DRAWING B651264.
14. FOR FOUNDATION DETAILS SEE DRAWING D870483 & B841300.
15. FOR ANCHORS AND SHORT BASE INSTALLATION SEE DRAWING NUMBERS B050439 AND CU730104.

FILE NO.
Standard-SSV

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
7	ADDED NOTE #15 DATE: 09/20/12	ZAW	JDM	HA

DWG REFERENCE

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

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ERECTION PROFILE
SSV/90 MPH FASTEST MILE/NO ICE

DWN:	CHK'D:	DATE:
WDU	CW	Sep/02/1987

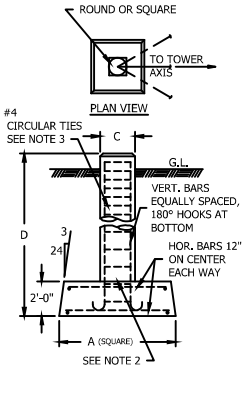
ENG'R: RAM

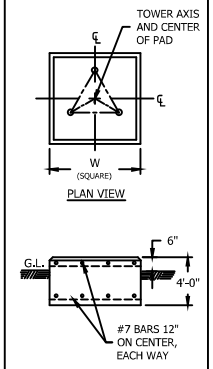
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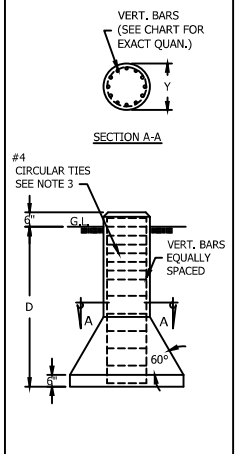
REV: 7

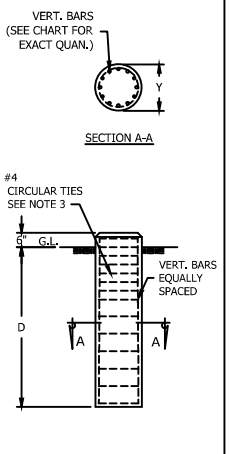
JAN 21 16:36 2009 \\Erection\

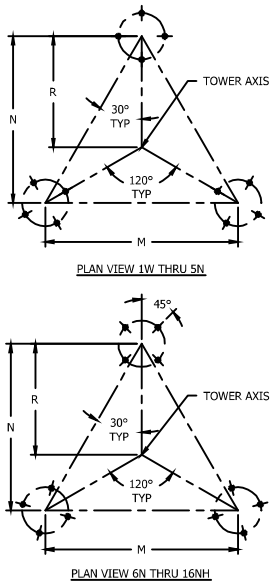
TOWER BASE SECT. NO.	ALLOW LEG LOAD (LBS.)	ALLOW. SHEAR (LBS. PER LEG)	ANCHOR BOLT DATA						PIER AND PAD							MAT		DRILL AND BELL					DRILLED PIER				
			LAYOUT DIMENSIONS			SIZE 12 REQ'D OR SHORT BASE	BOLT CIRCLE DIA. (IN.)	PROJ. (IN.)	D	A	C	VERT. BARS	HOR. BARS	REQ'D CONC. (CU. YDS. 3 FDNS)		W	REQ'D CONC. (CU. YDS.)	D	X	Y	VERT. BARS	REQ'D CONC. (CU. YDS. 3 FDNS)	D	Y	VERT. BARS	REQ'D CONC. (CU. YDS. 3 PIERS)
			M	N	R									ROUND	SQUARE											
1W	4,530		1'-2"	1'-0 1/8"	8 1/16"	---	2.66									4'-0"	2.4									
2W	11,200		1'-5"	1'-3 9/16"	10 3/8"	SB2	2.66									5'-6"	4.5									
3WN	19,600		1'-10"	1'-7 1/16"	1'-0 11/16"	SB3	3.50									6'-9"	6.8									
4N	28,000		2'-2"	1'-10 1/2"	1'-3"	SB4	4.25									8'-0"	9.5									
5N	36,000		2'-6"	2'-2"	1'-5 5/16"	SB5	4.94									8'-9"	11.3									
6N	33,730		4'-6 1/4"	3'-11"	2'-7 5/16"	5/8X42	4.94	3.50								10'-3"	15.6									
7N	33,730	4,000	6'-6 3/4"	5'-8 3/16"	3'-9 1/2"	5/8X42	4.94	3.50	8'-0"	4'-6"	2'-0"	8 #6	#6	6.3	6.9	11'-6"	19.6									
8N	52,530	6,000	8'-6 3/4"	7'-5"	4'-11 5/16"	5/8X42	4.94	3.50	8'-9"	5'-6"	2'-0"	8 #7	#6	8.7	9.4	14'-3"	30.1	11'-0"	4'-6"	2'-6"	10 #6	7.8	18'-6"	2'-6"	10 #6	10.4
9NH	54,000	6,500	10'-6 3/4"	9'-1 3/4"	6'-1 3/16"	5/8X42	4.94	3.50	9'-0"	5'-6"	2'-0"	8 #7	#6	8.8	9.5	16'-0"	37.9	11'-0"	5'-0"	2'-6"	10 #6	8.7	19'-6"	2'-6"	10 #6	10.9
10NH	56,000	8,000	12'-7 1/4"	10'-11"	7'-3 5/16"	3/4X48	5.66	4.00	9'-0"	5'-6"	2'-0"	8 #7	#6	8.8	9.5	18'-3"	49.3	11'-0"	5'-0"	2'-6"	10 #6	8.7	19'-6"	2'-6"	10 #6	10.9
11N	64,930	10,000	14'-7 7/8"	12'-8 5/16"	8'-5 9/16"	7/8X60	7.06	5.00	10'-0"	5'-6"	2'-6"	8 #8	#6	10.8	12.0			12'-0"	5'-0"	2'-6"	10 #6	9.2	21'-9"	2'-6"	10 #6	12.2
12NH	85,600	10,000	16'-8 3/8"	14'-5 1/2"	9'-7 11/16"	7/8X60	7.06	5.00	11'-0"	5'-6"	2'-6"	10 #8	#6	11.3	12.7			12'-6"	6'-0"	2'-6"	10 #6	11.8	22'-9"	3'-0"	12 #6	18.3
13NH	114,100	12,500	18'-8 3/8"	16'-2 5/16"	10'-9 9/16"	7/8X60	7.06	5.00	12'-0"	6'-3"	3'-0"	12 #8	#6	16.3	18.5			14'-0"	6'-6"	3'-0"	10 #7	16.7	25'-0"	3'-6"	12 #7	27.3
14NH	114,100	15,000	20'-9 3/8"	17'-11 15/16"	12'-0"	1X70	9.50	5.50	12'-0"	6'-3"	3'-0"	12 #8	#6	16.3	18.5			14'-0"	6'-6"	3'-0"	10 #7	16.7	25'-0"	3'-6"	12 #7	27.3
15NH	152,000	15,000	22'-9 3/8"	19'-8 3/4"	13'-1 13/16"	1X70	9.50	5.50	13'-0"	7'-3"	3'-0"	12 #8	#6	19.9	22.4			15'-0"	7'-3"	3'-0"	12 #8	20.1	30'-0"	4'-0"	12 #8	42.6
16NH	152,000	15,000	24'-9 3/8"	21'-5 9/16"	14'-3 11/16"	1X70	9.50	5.50	13'-0"	7'-3"	3'-0"	12 #8	#6	19.9	22.4			15'-0"	7'-3"	3'-0"	12 #8	20.1	30'-0"	4'-0"	12 #8	42.6











GENERAL NOTES

1. FOR REQUIRED MATERIAL SPECIFICATIONS, INSTALLATION NOTES, AND TOLERANCES SEE DRAWING NUMBER B841300.
2. ROUGHEN CONSTRUCTION JOINT TO A FULL AMPLITUDE OF 1/4".
3. CIRCULAR TIES TO BE PLACED ON 3" CENTERS FOR TOP 4' AND 12" CENTERS FROM 4' TO BOTTOM, WITH 22" LAPS.
4. FOR ANCHOR BOLT SETTING TEMPLATE INFORMATION AND BASE DETAILS SEE DRAWING NUMBER CU730104 & B050439.

FILE NO. Standard-SSV

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
2	REDRAWN NEW AUTOCAD FORMAT DATE: Jan/17/2007	JDA	JWS	H.A

DWG REFERENCE

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6718 WEST PLANK ROAD
PEORIA, IL 61604
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FOUNDATION
STANDARD MODEL SSV TWR NH SERIES

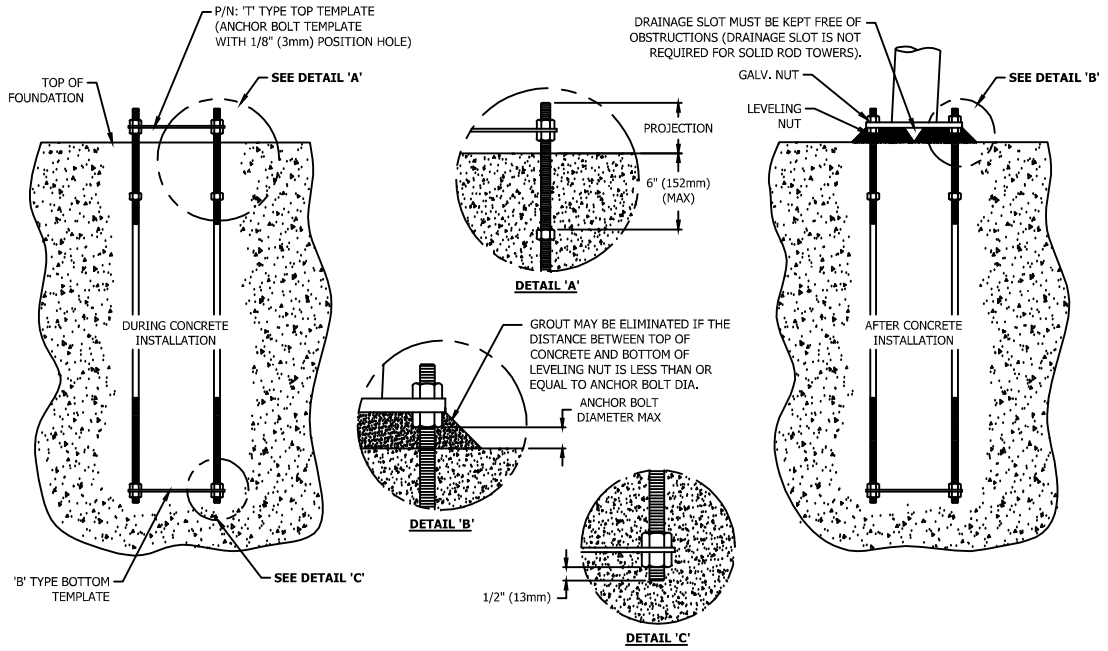
DWN:	CHK'D:	DATE:
WDU	GPW	Sep/11/1987

ENG'R: XK

DRAWING NO: D870483

REV: 2

May/30/2007 15:58:24 A4
\Erection\



ANCHOR BOLT INSTALLATION TOLERANCES

1. 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.
2. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS - 1/2" (13mm).
3. CONCRETE DIMENSIONS - PLUS OR MINUS 1" (25mm).
4. DEPTH OF FOUNDATION - PLUS 3" (76mm) OR MINUS 0".
5. DRILLED FOUNDATIONS OUT OF PLUMB - 1.0 DEGREE.
6. REINFORCING STEEL PLACEMENT - PER A.C.I. 301.
7. PROJECTION OF EMBEDMENTS - PLUS OR MINUS 1/8" (3mm).
8. VERTICAL EMBEDMENTS OUT OF PLUMB -1/2 DEGREE.
9. MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (50mm).
10. ANCHOR BOLT SPACING - 1/16" (2mm).
11. ANCHOR BOLT CIRCLE ORIENTATION - 1/4 DEGREE.
12. ANCHOR BOLT CIRCLE DIAMETER - PLUS OR MINUS 1/16" (2mm).

!!! WARNING !!!

- AFTER ANCHOR BOLTS ARE INSTALLED AND CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER.

ANCHOR BOLT TIGHTENING NOTES

1. NUTS, THREADS AND ALL NUT CONTACT SURFACES MUST BE CLEANED AND LUBRICATED AFTER CONCRETE INSTALLATION AND IMMEDIATELY BEFORE INSTALLATION OF LEVELING AND TOP NUTS. NUTS MUST BE FREE TO MOVE THROUGHOUT THE ENTIRE LENGTH OF THE ANCHOR BOLT THREAD PROJECTION.
2. AFTER LEVELING THE LEVELING NUTS AND SETTING THE BASE PLATE, TOP NUTS MUST BE INSTALLED IN AN INCREMENTAL STAR TIGHTENING SEQUENCE TO A SNUG TIGHT CONDITION FOLLOWED BY TIGHTENING THE LEVELING NUTS IN A SIMILAR PATTERN TO A SNUG TIGHT CONDITION. SNUG TIGHT IS DEFINED BY THE TIGHTNESS OBTAINED WITH THE EFFORT OF ONE PERSON WITH A 12 INCH NOMINAL LENGTH WRENCH.
3. AFTER ALL TOP AND LEVELING NUTS ARE TIGHTENED TO A SNUG TIGHT CONDITION, TOP NUTS SHALL BE FURTHER TIGHTENED IN AN INCREMENTAL STAR PATTERN WITH THE LEVELING NUTS SECURED TO RESULT IN A 1/3 TOP NUT ROTATION FOR ANCHOR BOLTS 1-1/2 INCHES OR LESS IN DIAMETER, OR A 1/6 TOP NUT ROTATION FOR ANCHOR BOLTS GREATER THAN 1-1/2 INCHES IN DIAMETER.

NOTES

1. ALL ANCHOR BOLTS MUST MEET OR EXCEED REQUIREMENTS OF A.S.T.M. F1554-S2, S5 GRADE 105.
2. GROUT TO BE 5000 PSI MIN. ULTIMATE STRENGTH/7 DAY NON-SHRINKING AND NON-METALLIC.
3. SPECIAL CARE MUST BE TAKEN WHEN LIFTING ANCHOR BOLT CLUSTER, IN ORDER TO PREVENT ANCHOR BOLT TEMPLATE DISTORTION.
4. ANCHOR BOLT ASSEMBLY MUST BE ADEQUATELY SUPPORTED AND RESTRAINED TO PREVENT MOVEMENT OF THE CLUSTER DURING CONCRETE INSTALLATION.
5. IT IS THE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR TO VERIFY THAT THE CORRECT ANCHOR BOLT TEMPLATE AND FOUNDATION SHOWN ON RESPECTIVE SITE DRAWINGS ARE BEING USED.
6. IT IS THE RESPONSIBILITY OF THE FOUNDATION DESIGN ENGINEER TO INSURE THAT THE ANCHORAGES PROVIDED ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGNS AND THAT THE CAPACITIES OF THE ANCHORAGES ARE NOT LIMITED BY THE STRENGTH OF THE FOUNDATIONS.

!! WARNING !!

PRIOR TO PLACING CONCRETE:

- **CHECK THAT THE TEMPLATE ANCHOR BOLT CIRCLE MATCHES THE ANCHOR BOLT CIRCLE SHOWN ON THE STRUCTURE DRAWING.**
- **CALL ROHN (309)-566-3000 FOR ANY DISCREPANCY.**

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
4	ADDED DIMENSION TO SHOW PROJECTION DATE: 01/30/14	CEJ	JDM	HA

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TOLL FREE 800-727-ROHN

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ANCHOR BOLT LAYOUTS
FOR 5/8", 3/4", 7/8", & 1" ANCHOR BOLTS

DWN:	CHK'D:	DATE:
MF	KTL	09/07/05

ENG'R:	SHEET #:
HA	1 OF 1

PRJ. ENG'R:	PRJ. MANG'R:

DRAWING NO:	REV:
B050439	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

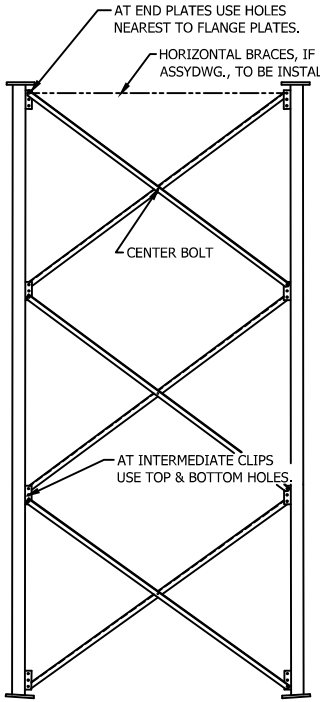
REV.	DESCRIPTION	DWN	CHK	APP
13	REVISED NOTE 8 TO 4500 PSI DATE: 2/10/2014	JHY	HA	HA

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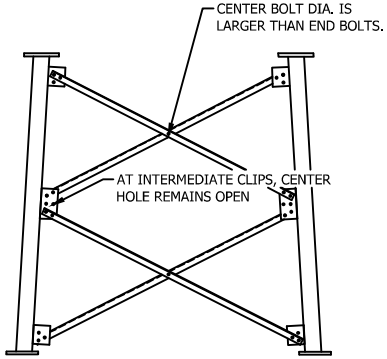
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FOUNDATION
MATERIAL INSTALLATION NOTES

DWN:	CHK'D:	DATE:
CSR	HA	6/17/1984
ENG'R: XK	SHEET #: 1 OF 1	
PRJ. ENG'R:	PRJ. MANG'R:	
DRAWING NO: B841300	REV: 13	

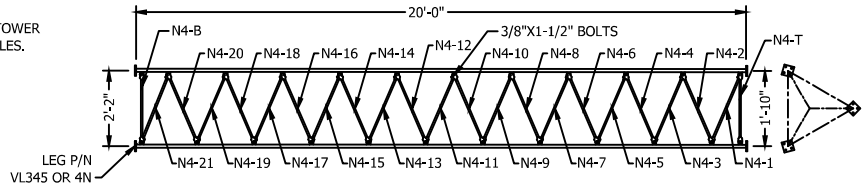


TYPICAL ONE BOLT, BRACE CONNECTION DETAIL

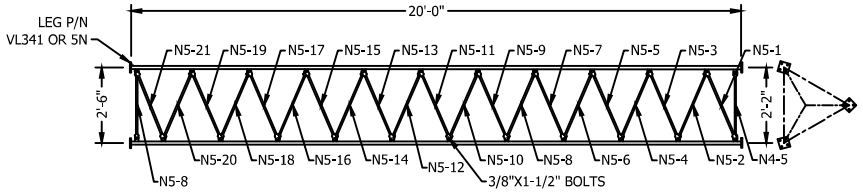


TYPICAL TWO-BOLT, BRACE CONNECTION DETAIL

NOTE: SECTIONS SHOULD BE ASSEMBLED ON EVEN GROUND & LEVELED TO INSURE STRAIGHTNESS

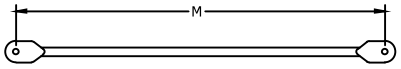


SECTION 4N

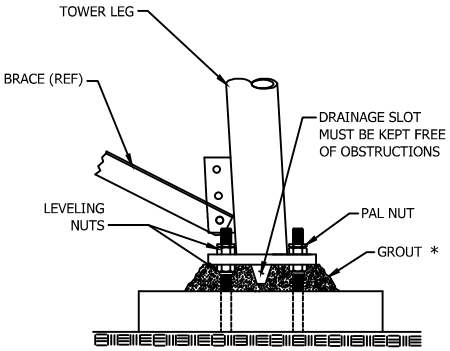


SECTION 5N

IMPORTANT: LEG P/N IS STAMPED AT BOTTOM OF BASE FLANGE PLATE OF EACH SECTION LEG.



SECTION 4N		SECTION 5N	
P/N	M	P/N	M
N4-1	21 3/8"	N5-1	24 3/4"
N4-2	21 15/16"	N5-2	25 1/4"
N4-3	22 1/16"	N5-3	25 7/16"
N4-4	22 1/4"	N5-4	25 5/8"
N4-5	22 3/8"	N5-5	25 3/4"
N4-6	22 9/16"	N5-6	25 15/16"
N4-7	22 3/4"	N5-7	26 1/8"
N4-8	22 7/8"	N5-8	26 1/4"
N4-9	23 1/16"	N5-9	26 7/16"
N4-10	23 3/16"	N5-10	26 5/8"
N4-11	23 3/8"	N5-11	26 3/4"
N4-12	23 9/16"	N5-12	26 15/16"
N4-13	23 11/16"	N5-13	27 1/8"
N4-14	23 7/8"	N5-14	27 5/16"
N4-15	24 1/16"	N5-15	27 7/16"
N4-16	24 3/16"	N5-16	27 5/8"
N4-17	24 3/8"	N5-17	27 13/16"
N4-18	24 9/16"	N5-18	28"
N4-19	24 11/16"	N5-19	28 1/8"
N4-20	24 7/8"	N5-20	28 5/16"
N4-21	25 1/16"	N5-21	28 1/2"
N4-T	18 9/16"		
N4-B	22 1/2"		



GROUTING AND DRAINAGE DETAILS

* GROUT MUST BE STRUCTURAL & MUST BE 5000 PSI (34.5 MPa) MINIMUM ULTIMATE STRENGTH NON-SHRINK & NON-METALLIC OR APPROVED EQUAL AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

FILE NO. Standard-SSV

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
8	VL341 WAS VL346 DATE: Mar/21/2006	M.F	JDM	H.A

DWG REFERENCE

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6718 WEST PLANK ROAD
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TOWER PROFILE
GROUTING & DRAINAGE DETAIL

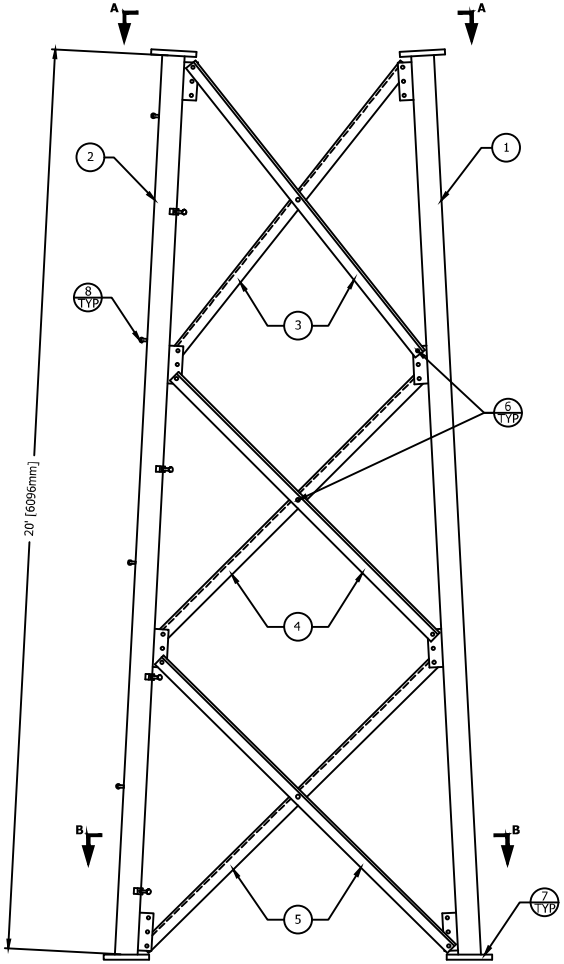
DWN:	CHK'D:	DATE:
O.H	WDU	Mar/03/1972

ENG'R: TWS

DRAWING NO: SK720305 REV: 8

Aug/29/2006 11:57:47 AM

\Erection\



ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	6" X 6" X 3/4" (P/N: 6C)	12'-7 1/4" [3842mm]
BOTTOM	1/4" [6mm]	3 1/3° STD	7" X 7" X 1" (P/N: 7A)	14'-7 7/8" [4467mm]

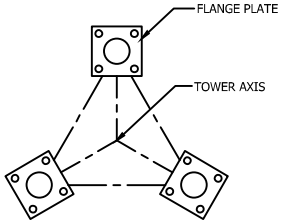
SECTION ASSEMBLY P/N: 11N332

BILL OF MATERIAL

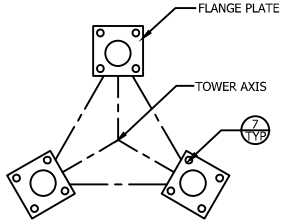
ITEM	PART NO.	QTY	DESCRIPTION	
1	VL2785	2	LEG SSV 9-11N 3STD 20' 6 7BASE	[PIPE 76mm STD]
2	VL2785S	1	LEG SSV 9-11N 3STD 20' 6 7BASE	[PIPE 76mm STD]
3	N111	6	BRACE DS SS11T L2.5X.19X14.04'	[L 64x64x5]
4	N112	6	BRACE DS SS11T L2.5X.19X14.64'	[L 64x64x5]
5	N113	6	BRACE DS SS11T L2.5X.19X15.16'	[L 64x64x5]
6	210017GA	45	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]
7	110163	12	NUT 7/8 (JAM - PAL) HDG	[M22]
8	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]

GENERAL NOTES:

1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
2. STEP BOLTS ARE PROVIDED ON 1 LEG ONLY.
3. THIS SECTION IS A BASE SECTION. SEE THE TOWER ASSEMBLY FOR ANCHOR BOLTS. PAL NUTS ARE SUPPLIED FOR THE ANCHOR BOLTS.
4. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
5. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



VIEW A-A



VIEW B-B

FILE NO.

REVISIONS

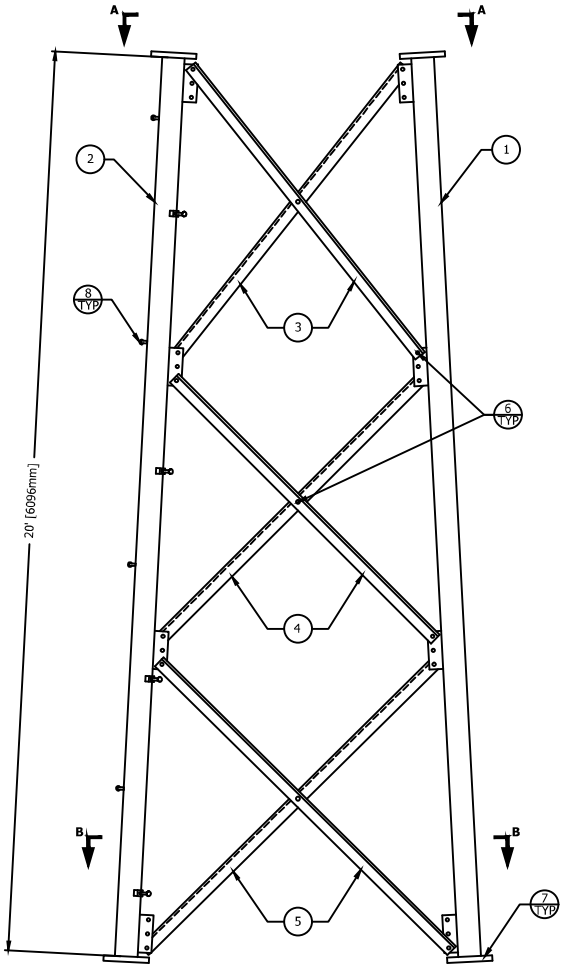
REV.	DESCRIPTION	DWN	CHK	APP
2	REDRAWN DATE: Aug/9/2012	JHY	JDM	HA

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SECTION ASSEMBLY
DETAILS FOR SSV BASE 11N332

DWN:	CHK'D:	DATE:
CMH	KTL	June/23/2004
ENG'R: HA	SHEET #: 1 OF 1	
PRJ. ENG'R:	PRJ. MANG'R:	
DRAWING NO: A040144		REV: 2



ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	5" X 5" X 3/4" (P/N: 5C)	10'-6 3/4" [3219mm]
BOTTOM	1/4" [6mm]	N/A	6" X 6" X 3/4" (P/N: 6A)	12'-7 1/4" [3842mm]

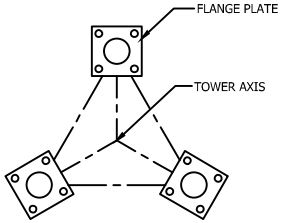
SECTION ASSEMBLY P/N: 10NH

BILL OF MATERIAL

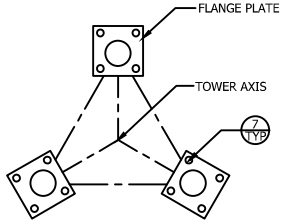
ITEM	PART NO.	QTY	DESCRIPTION	
1	VL351	2	LEG SSV 9-11N 2.5EH 20' 5 6OF	[PIPE 64mm EH]
2	VL351S	1	LEG SSV 9-11N 2.5EH 20' 5 6OF	[PIPE 64mm EH]
3	N101	6	BRACE DS SS10T L2X.13X12.29'	[L 51x51x3
4	N102	6	BRACE DS SS10T L2X.13X12.86'	[L 51x51x3]
5	N103	6	BRACE DS SS10T L2X.13X13.35'	[L 51x51x3]
6	210017GA	45	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]
7	210050GA	12	BOLT ASSY 3/4 X 2-3/4 HSB A325	[M19x70]
8	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]

GENERAL NOTES:

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3. FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
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VIEW A-A



VIEW B-B

FILE NO.

REVISIONS

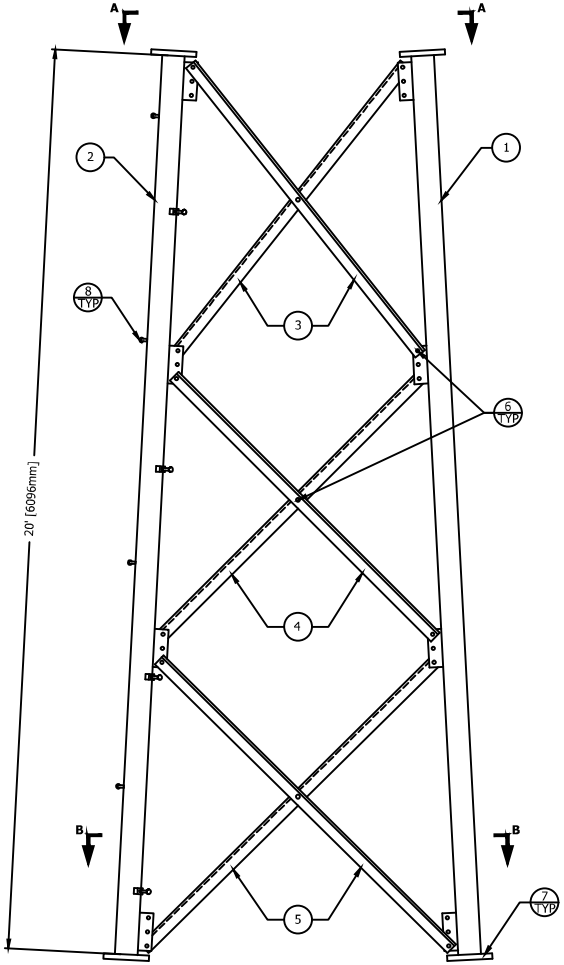
REV.	DESCRIPTION	DWN	CHK	APP
2	REDRAWN DATE: Aug/9/2012	JHY	JDM	HA

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SECTION ASSEMBLY
DETAILS FOR SSV 10NH

DWN:	CHK'D:	DATE:
AED	HSK	Nov/2/1978
ENG'R: TWS	SHEET #: 1 OF 1	
PRJ. ENG'R:	PRJ. MANG'R:	
DRAWING NO: A780386		REV: 2



ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	5" X 5" X 3/4" (P/N: 5C)	8'-6 3/4" [2610mm]
BOTTOM	N/A	N/A	5" X 5" X 3/4" (P/N: 5C)	10'-6 3/4" [3219mm]

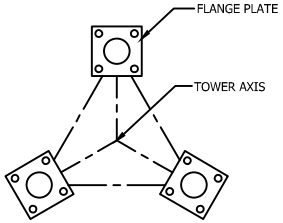
SECTION ASSEMBLY P/N: 9NH

BILL OF MATERIAL

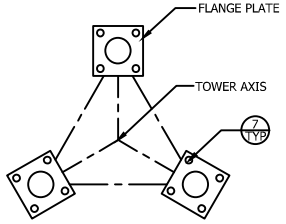
ITEM	PART NO.	QTY	DESCRIPTION	
1	VL350	2	LEG SSV 9-11N 2.5EH 20' 5 5 S9	[PIPE 64mm EH]
2	VL350S	1	LEG SSV 9-11N 2.5EH 20' 5 5 S9	[PIPE 64mm EH]
3	N91	6	BRACE DS SS9T L1.75X.13X10.63'	[L 44x44x3]
4	N92	6	BRACE DS SS9T L1.75X.13X11.17'	[L 44x44x3]
5	N93	6	BRACE DS SS9T L1.75X.13X11.61'	[L 44x44x3]
6	210017GA	45	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]
7	210033GA	12	BOLT ASSY 5/8 X 2-1/2 HSB A325	[M16x64]
8	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]

GENERAL NOTES:

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VIEW A-A



VIEW B-B

FILE NO.

REVISIONS

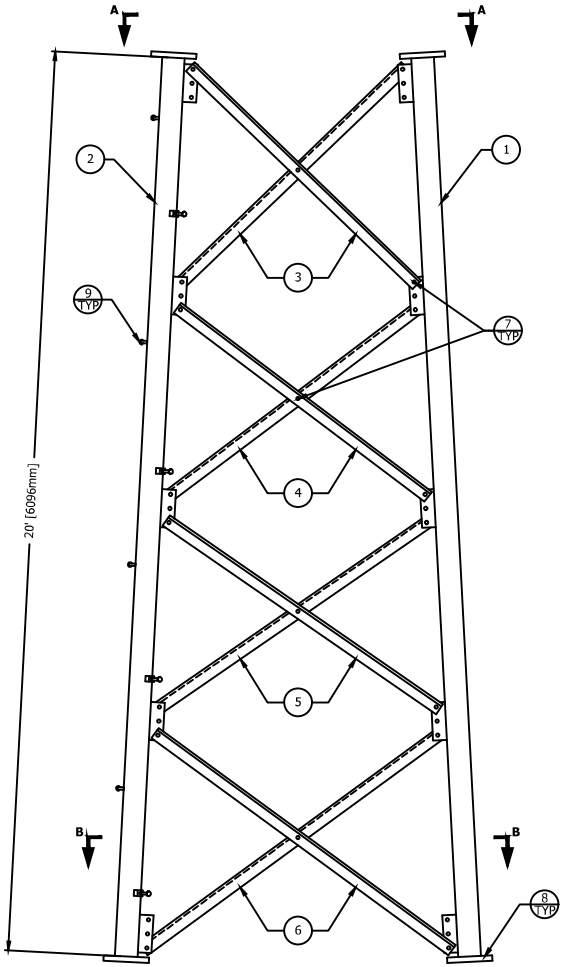
REV.	DESCRIPTION	DWN	CHK	APP
4	REDRAWN DATE: Aug/9/2012	JHY	JDM	HA

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SECTION ASSEMBLY
DETAILS FOR SSV 9NH

DWN:	CHK'D:	DATE:
AED	WDU	Nov/11/1978
ENG'R:	SHEET #:	
TWS	1 OF 1	
PRJ. ENG'R:	PRJ. MANG'R:	
DRAWING NO:	REV:	
A780318	4	



ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	5" X 5" X 3/4" (P/N: 5C)	6'-6 3/4" [2000mm]
BOTTOM	N/A	N/A	5" X 5" X 3/4" (P/N: 5C)	8'-6 3/4" [2610mm]

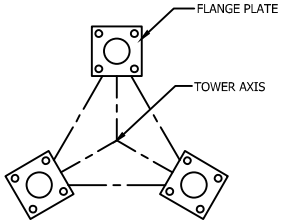
SECTION ASSEMBLY P/N: 8N

BILL OF MATERIAL

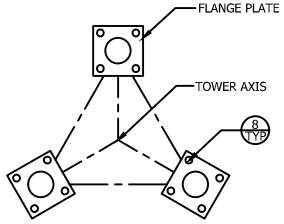
ITEM	PART NO.	QTY	DESCRIPTION	
1	VL349	2	LEG SSV 8N 2.5STD 20' 5 5	[PIPE 64mm STD]
2	VL349S	1	LEG SSV 8N 2.5STD 20' 5 5	[PIPE 64mm STD]
3	N81	6	BRACE DS SS8T L1.5X.13X7.95'	[L 38x38x3]
4	N82	6	BRACE DS SS8T L1.5X.13X8.36'	[L 38x38x3]
5	N83	6	BRACE DS SS8T L1.5X.13X8.79'	[L 38x38x3]
6	N84	6	BRACE DS SS8T L1.5X.13X9.11'	[L 38x38x3]
7	210017GA	60	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]
8	210033GA	12	BOLT ASSY 5/8 X 2-1/2 HSB A325	[M16x64]
9	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]

GENERAL NOTES:

1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
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5. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



VIEW A-A



VIEW B-B

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
3	REDRAWN DATE: Aug/9/2012	JHY	JDM	HA

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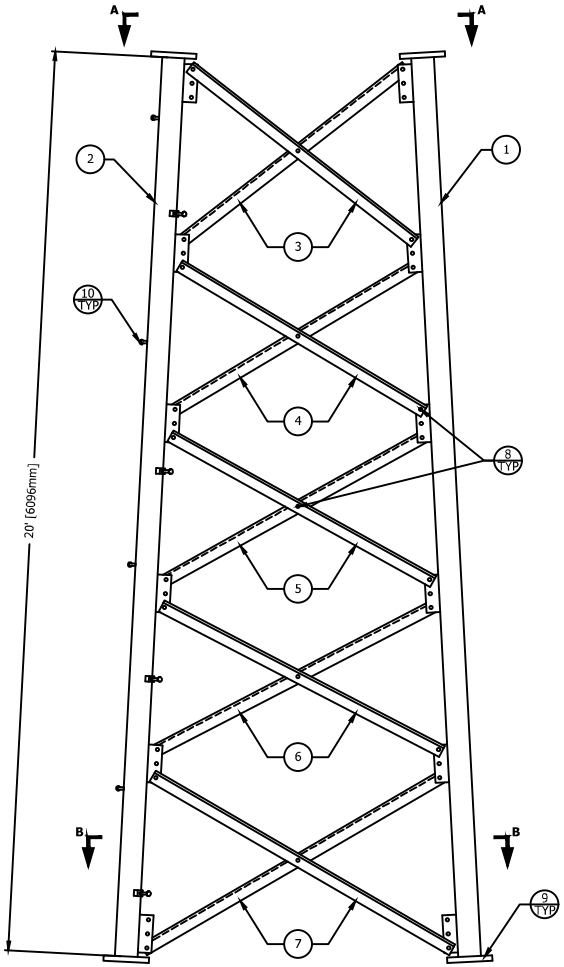
SECTION ASSEMBLY
DETAILS FOR SSV 8N

DWN:	CHK'D:	DATE:
AED	MDI	Oct/28/1978

ENG'R:	SHEET #:
TWS	1 OF 1

PRJ. ENG'R:	PRJ. MANG'R:

DRAWING NO:	REV:
A780252	3



ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	5" X 5" X 3/4" (P/N: 5A)	4'-6 1/4" [1378mm]
BOTTOM	1/4" [6mm]	N/A	5" X 5" X 3/4" (P/N: 5B)	6'-6 3/4" [2000mm]

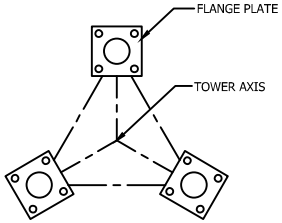
SECTION ASSEMBLY P/N: 7N

BILL OF MATERIAL

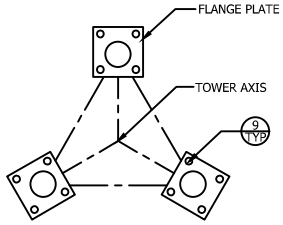
ITEM	PART NO.	QTY	DESCRIPTION	
1	VL348	2	LEG SSV 6-7N 2STD 20' 5 5OFF	[PIPE 51mm STD]
2	VL348S	1	LEG SSV 6-7N 2STD 20' 5 5OFF	[PIPE 51mm STD]
3	N71	6	BRACE DS SS7T L1.5X.13X5.71'	[L 38x38x3]
4	N72	6	BRACE DS SS7T L1.5X.13X6.03'	[L 38x38x3]
5	N73	6	BRACE DS SS7T L1.5X.13X6.35'	[L 38x38x3]
6	N74	6	BRACE DS SS7T L1.5X.13X6.69'	[L 38x38x3]
7	N75	6	BRACE DS SS7T L1.5X.13X6.92'	[L 38x38x3]
8	210017GA	75	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]
9	210033GA	12	BOLT ASSY 5/8 X 2-1/2 HSB A325	[M16x64]
10	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]

GENERAL NOTES:

1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
2. STEP BOLTS ARE PROVIDED ON 1 LEG ONLY.
3. FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
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5. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



VIEW A-A



VIEW B-B

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
3	REDRAWN DATE: Aug/9/2012	JHY	JDM	HA

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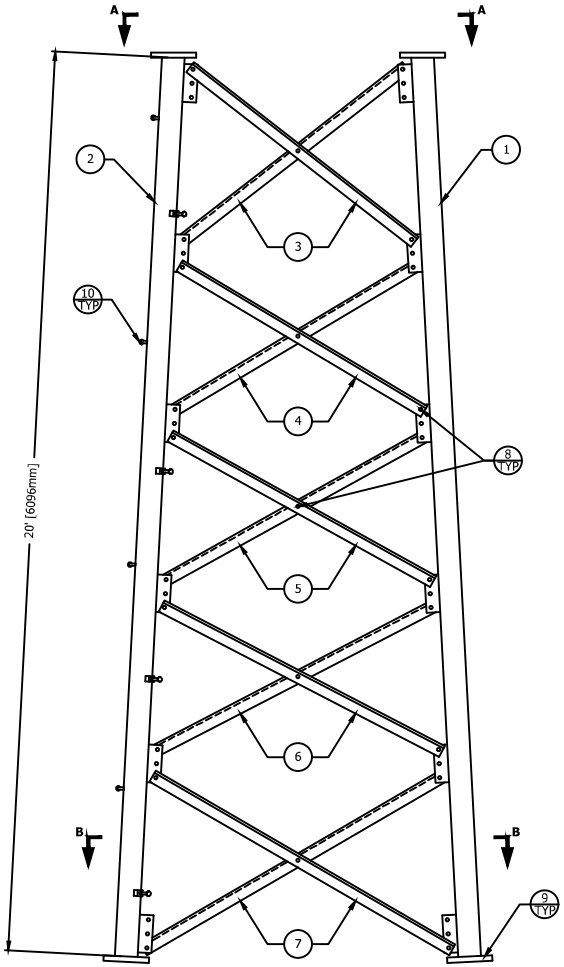
SECTION ASSEMBLY
DETAILS FOR SSV 7N

DWN:	CHK'D:	DATE:
AED	MWD	Sep/9/1978

ENG'R:	SHEET #:
T.S	1 OF 1

PRJ. ENG'R:	PRJ. MANG'R:

DRAWING NO:	REV:
A780139	3



ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	3 1/3° REV	4 1/2" X 4 1/2" X 5/8" (P/N: VL906)	2'-6" [762mm]
BOTTOM	N/A	N/A	5" X 5" X 3/4" (P/N: 5A)	4'-6 1/4" [1378mm]

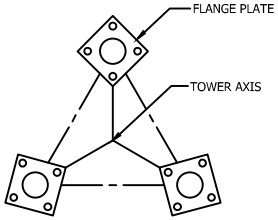
SECTION ASSEMBLY P/N: 6N

BILL OF MATERIAL

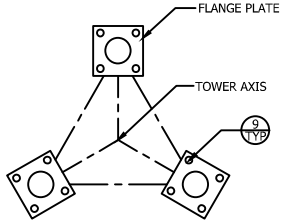
ITEM	PART NO.	QTY	DESCRIPTION	
1	VL347	2	LEG SSV 6N 2STD 20' 45BEV 5	[PIPE 51mm STD]
2	VL347S	1	LEG SSV 6N 2STD 20' 45BEV 5	[PIPE 51mm STD]
3	N61	6	BRACE DS SS6T L1.5X.13X4.39'	[L 38x38x3]
4	N62	6	BRACE DS SS6T L1.5X.13X4.61'	[L 38x38x3]
5	N63	6	BRACE DS SS6T L1.5X.13X4.86'	[L 38x38x3]
6	N64	6	BRACE DS SS6T L1.5X.13X5.14'	[L 38x38x3]
7	N65	6	BRACE DS SS6T L1.5X.13X5.28'	[L 38x38x3]
8	210017GA	75	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]
9	210033GA	12	BOLT ASSY 5/8 X 2-1/2 HSB A325	[M16x64]
10	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]

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VIEW A-A



VIEW B-B

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
6	REDRAWN DATE: Aug/9/2012	JHY	JDM	HA

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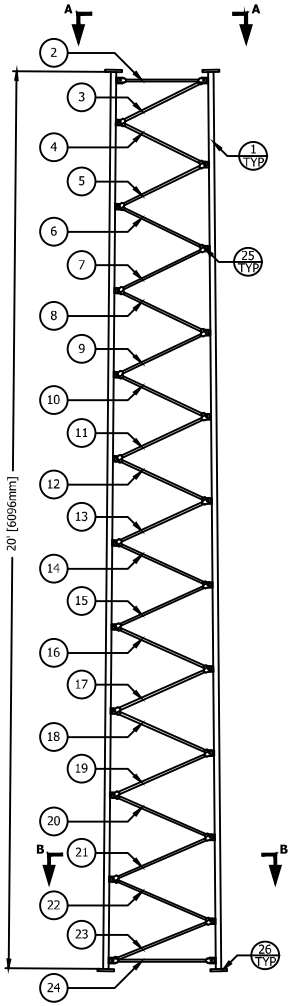
SECTION ASSEMBLY
DETAILS FOR SSV 6N

DWN:	CHK'D:	DATE:
AED	WDU	Oct/18/1978

ENG'R:	SHEET #:
TWS	1 OF 1

PRJ. ENG'R:	PRJ. MANG'R:

DRAWING NO:	REV:
A780200	6



ELEVATION VIEW

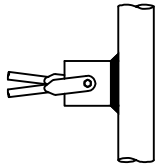
GENERAL NOTES:

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2. FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
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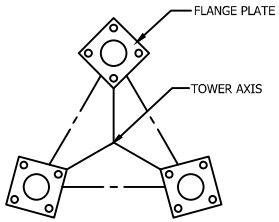
SECTION ASSEMBLY P/N: 5N

BILL OF MATERIAL

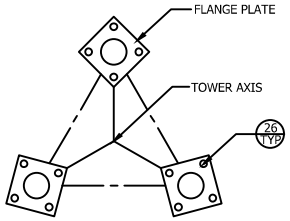
ITEM	PART NO.	QTY	DESCRIPTION	
1	VL341	3	LEG SSV 5N/5NST 1.44SR 20' 45	[BAR RND 37mm SR]
2	N45	3	BRACE DIAG SSV RD BAR .63X1.98	[BAR RND 16mm]
3	N51	3	BRACE DIAG SSV RD BAR .63X2.18	[BAR RND 16mm]
4	N52	3	BRACE DIAG SSV RD BAR .63X2.22	[BAR RND 16mm]
5	N53	3	BRACE DIAG SSV RD BAR .63X2.23	[BAR RND 16mm]
6	N54	3	BRACE DIAG SSV RD BAR .63X2.25	[BAR RND 16mm]
7	N55	3	BRACE DIAG SSV RD BAR .63X2.26	[BAR RND 16mm]
8	N56	3	BRACE DIAG SSV RD BAR .63X2.28	[BAR RND 16mm]
9	N57	3	BRACE DIAG SSV RD BAR .63X2.29	[BAR RND 16mm]
10	N58	3	BRACE DIAG SSV RD BAR .63X2.30	[BAR RND 16mm]
11	N59	3	BRACE DIAG SSV RD BAR .63X2.31	[BAR RND 16mm]
12	N510	3	BRACE DIAG SSV RD BAR .63X2.33	[BAR RND 16mm]
13	N511	3	BRACE DIAG SSV RD BAR .63X2.34	[BAR RND 16mm]
14	N512	3	BRACE DIAG SSV RD BAR .63X2.36	[BAR RND 16mm]
15	N513	3	BRACE DIAG SSV RD BAR .63X2.38	[BAR RND 16mm]
16	N514	3	BRACE DIAG SSV RD BAR .63X2.39	[BAR RND 16mm]
17	N515	3	BRACE DIAG SSV RD BAR .63X2.40	[BAR RND 16mm]
18	N516	3	BRACE DIAG SSV RD BAR .63X2.42	[BAR RND 16mm]
19	N517	3	BRACE DIAG SSV RD BAR .63X2.43	[BAR RND 16mm]
20	N518	3	BRACE DIAG SSV RD BAR .63X2.45	[BAR RND 16mm]
21	N519	3	BRACE DIAG SSV RD BAR .63X2.46	[BAR RND 16mm]
22	N520	3	BRACE DIAG SSV RD BAR .63X2.47	[BAR RND 16mm]
23	N521	3	BRACE DIAG SSV RD BAR .63X2.49	[BAR RND 16mm]
24	N58	3	BRACE DIAG SSV RD BAR .63X2.30	[BAR RND 16mm]
25	210008GA	72	BOLT ASSY 3/8 X 1-1/2 HCS G5	[M10x38]
26	210032GA	12	BOLT ASSY 5/8 X 2-1/4 HSB A325	[M16x57]



BRACING DETAIL



VIEW A-A



VIEW B-B

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	4 1/2" X 4 1/2" X 5/8" (P/N: VL901)	2'-2" [660mm]
BOTTOM	N/A	N/A	4 1/2" X 4 1/2" X 5/8" (P/N: VL901)	2'-6" [762mm]

FILE NO.

REVISIONS

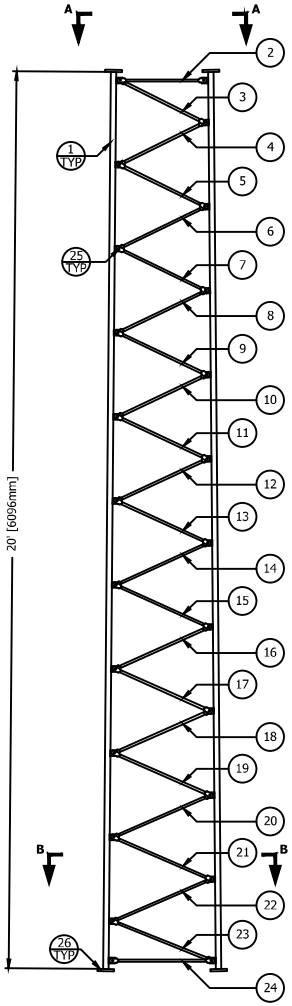
REV.	DESCRIPTION	DWN	CHK	APP
5	REDRAWN DATE: Aug/9/2012	JHY	JDM	HA

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SECTION ASSEMBLY
DETAILS FOR SSV 5N

DWN:	CHK'D:	DATE:
AED	JD	Mar/22/1979
ENG'R: TWS	SHEET #: 1 OF 1	
PRJ. ENG'R:	PRJ. MANG'R:	
DRAWING NO: A790119	REV: 5	



ELEVATION VIEW

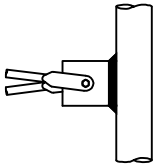
GENERAL NOTES:

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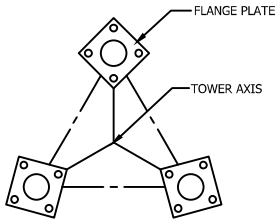
SECTION ASSEMBLY P/N: 4N

BILL OF MATERIAL

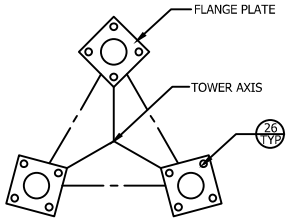
ITEM	PART NO.	QTY	DESCRIPTION	
1	VL345	3	LEG SSV 4N 1.25SR 20' 4 45	[BAR RND 32mm SR]
2	N4T	3	BRACE H SSV RD BAR .63X1.66'	[BAR RND 16mm]
3	N41	3	BRACE DIAG SSV RD BAR .63X1.90	[BAR RND 16mm]
4	N42	3	BRACE DIAG SSV RD BAR .63X1.94	[BAR RND 16mm]
5	N43	3	BRACE DIAG SSV RD BAR .63X1.95	[BAR RND 16mm]
6	N44	3	BRACE DIAG SSV RD BAR .63X1.97	[BAR RND 16mm]
7	N45	3	BRACE DIAG SSV RD BAR .63X1.98	[BAR RND 16mm]
8	N46	3	BRACE DIAG SSV RD BAR .63X1.99	[BAR RND 16mm]
9	N47	3	BRACE DIAG SSV RD BAR .63X2.01	[BAR RND 16mm]
10	N48	3	BRACE DIAG SSV RD BAR .63X2.02	[BAR RND 16mm]
11	N49	3	BRACE DIAG SSV RD BAR .63X2.04	[BAR RND 16mm]
12	N410	3	BRACE DIAG SSV RD BAR .63X2.05	[BAR RND 16mm]
13	N411	3	BRACE DIAG SSV RD BAR .63X2.06	[BAR RND 16mm]
14	N412	3	BRACE DIAG SSV RD BAR .63X2.08	[BAR RND 16mm]
15	N413	3	BRACE DIAG SSV RD BAR .63X2.09	[BAR RND 16mm]
16	N414	3	BRACE DIAG SSV RD BAR .63X2.10	[BAR RND 16mm]
17	N415	3	BRACE DIAG SSV RD BAR .63X2.12	[BAR RND 16mm]
18	N416	3	BRACE DIAG SSV RD BAR .63X2.13	[BAR RND 16mm]
19	N417	3	BRACE DIAG SSV RD BAR .63X2.15	[BAR RND 16mm]
20	N418	3	BRACE DIAG SSV RD BAR .63X2.16	[BAR RND 16mm]
21	N419	3	BRACE DIAG SSV RD BAR .63X2.17	[BAR RND 16mm]
22	N420	3	BRACE DIAG SSV RD BAR .63X2.19	[BAR RND 16mm]
23	N421	3	BRACE DIAG SSV RD BAR .63X2.20	[BAR RND 16mm]
24	N4B	3	BRACE H SSV RD BAR .63X1.99'	[BAR RND 16mm]
25	210008GA	72	BOLT ASSY 3/8 X 1-1/2 HCS G5	[M10x38]
26	210032GA	12	BOLT ASSY 5/8 X 2-1/4 HSB A325	[M16x57]



BRACING DETAIL



VIEW A-A



VIEW B-B

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	4" X 4" X 1/2" (P/N: 4A)	1'-10" [559mm]
BOTTOM	N/A	N/A	4 1/2" X 4 1/2" X 5/8" (P/N: 45A)	2'-2" [660mm]

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
4	REDRAWN DATE: Aug/9/2012	JHY	JDM	HA

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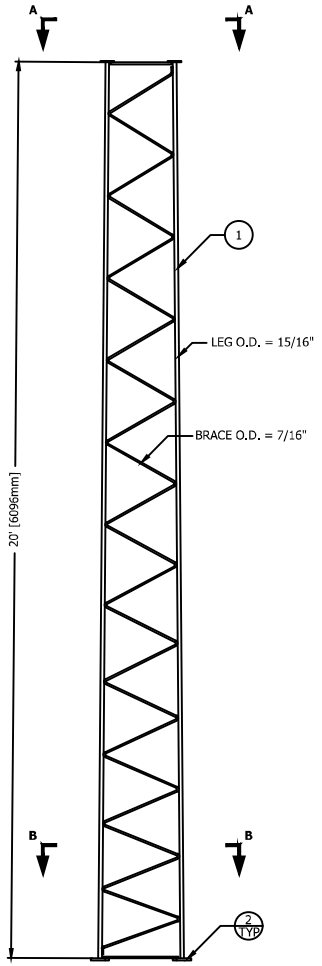
SECTION ASSEMBLY
DETAILS FOR SSV 4N

DWN:	CHK'D:	DATE:
AED	RAM	Mar/17/1979

ENG'R:	SHEET #:
TWS	1 OF 1

PRJ. ENG'R:	PRJ. MANG'R:

DRAWING NO:	REV:
A790110	4

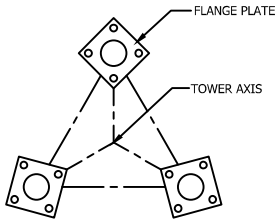


ELEVATION VIEW

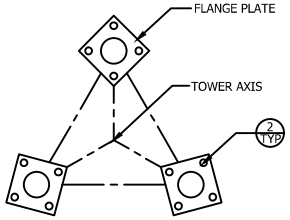
SECTION ASSEMBLY P/N: 3WN				
BILL OF MATERIAL				
ITEM	**PART NO.**	**QTY**	**DESCRIPTION**	
1	VS3	1	SECTION 20' 3WN WELDED HDG	
2	210020GA	12	BOLT ASSY 1/2 X 2 HSB A325	[M13x51]

GENERAL NOTES:

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VIEW A-A



VIEW B-B

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	1/2° REV	3" X 3" X 3/8" (P/N: 3A)	1'-6" [457mm]
BOTTOM	N/A	1/2° STD	4" X 4" X 1/2" (P/N: 4C)	1'10" [559mm]

FILE NO.

REVISIONS

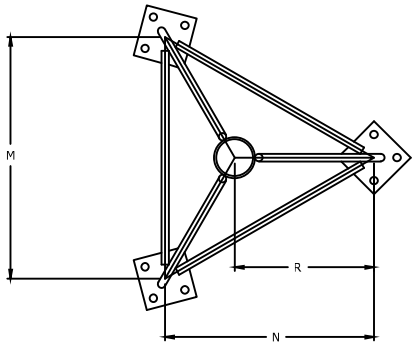
REV.	DESCRIPTION	DWN	CHK	APP
6	REDRAWN DATE: Oct/30/2012	JHY	JDM	HA

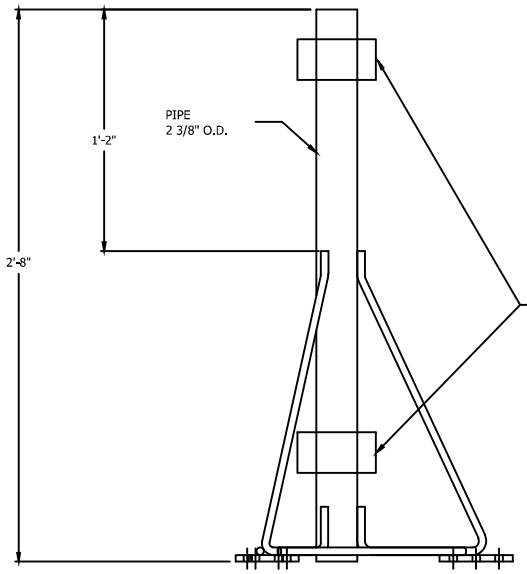
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SECTION ASSEMBLY
DETAILS FOR SSV 3WN

DWN:	CHK'D:	DATE:
AED	RAM	Mar/14/1979
ENG'R:	SHEET #:	
TWS	1 OF 1	
PRJ. ENG'R:	PRJ. MANG'R:	
DRAWING NO:	REV:	
A790097	6	





TAPERED TOP ASSY BILL OF MATERIALS DETAIL

	TOWER SEC.				FLANGE PLATE	FLANGE BOLTS		
ASSY P/N	NUMBER	M	N	R	SIZE	QTY	SIZE	P/N
1TT	1W, 1WB, 2W	1'-2"	1'-0 1/8"	0'-8 1/16"	3 X 3 X 3/8	9	3/8 X 1-1/2	210008GA
3TT	2WST, 2WB, 3WN	1'-6"	1'-3 9/16"	0'-10 3/8"	3 X 3 X 3/8	9	3/8 X 1-1/2	210008GA
4TTN	3WNST, 3WNB, 4N	1'-10"	1'-7 1/16"	1'-0 11/16"	4 X 4 X 1/2	9	1/2 X 2	210020GA
5TTN	4NST, 4NA, 4WB, 4NC, 5N	2'-2"	1'-10 1/2"	1'-3"	4-1/2 X 4-1/2 X 5/8	9	5/8 X 2-1/4	210032GA
6TT	5NST, 5NA, 5NB, 5NC, 6N	2'-6"	2'-2"	1'-5 5/16"	4-1/2 X 4-1/2 X 5/8	9	5/8 X 2-1/4	210032GA

NOTE: DESIGN BASED ON THRUST OF 500# AT CLAMPING POSTIONS

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
12	UPDATED TO NEW STANDARDS DATE: 07/25/11	JEC	KTL	DWG

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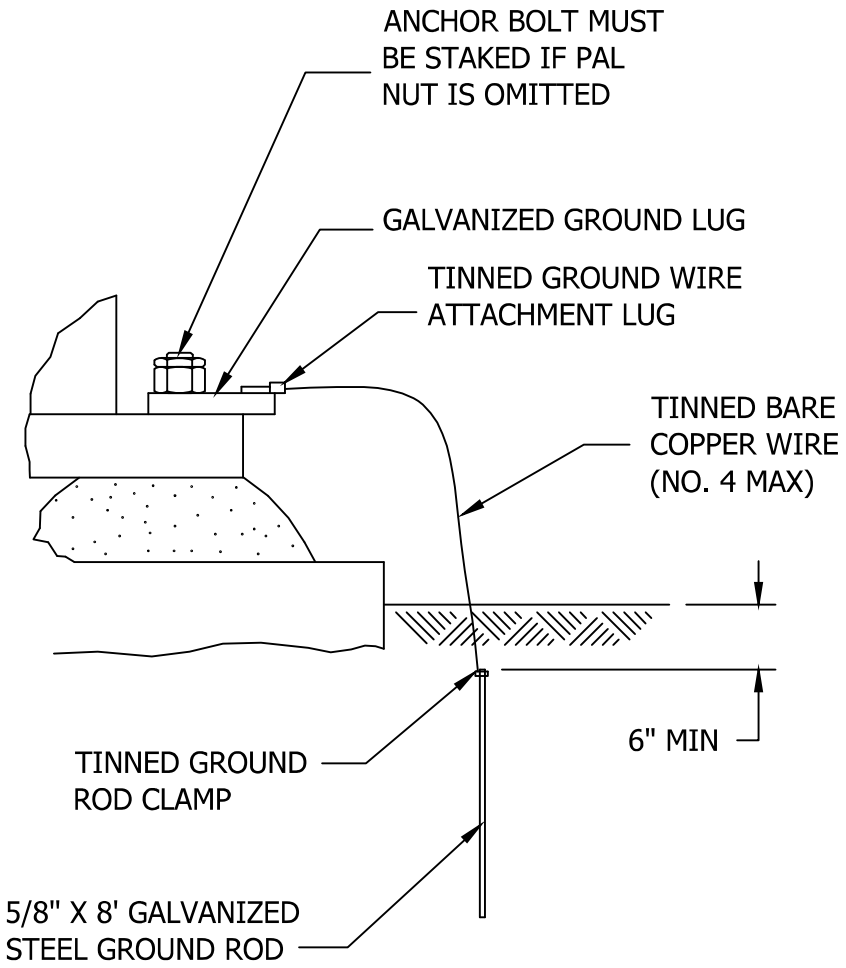
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TAPERED TOP ASSEMBLY

DWN:	CHK'D:	DATE:
MDI	OH	JAN/03/1967

ENG'R:	SHEET #:
CW	1 OF 1

DRAWING NO:	REV:
SK670407	12



FILE NO.
Standard-SSV

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
1	UPDATED DATE: Aug/22/2005	JDM	HA	HA
2	UPDATED GROUND ROD & NOTES DATE: Oct/26/2007	M.F	KTL	HA

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
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GROUNDING
BASE DETAIL FOR SELF SUPPORT TOWERS

DWN:	CHK'D:	DATE:
JDM	B_F	Jun/04/2002

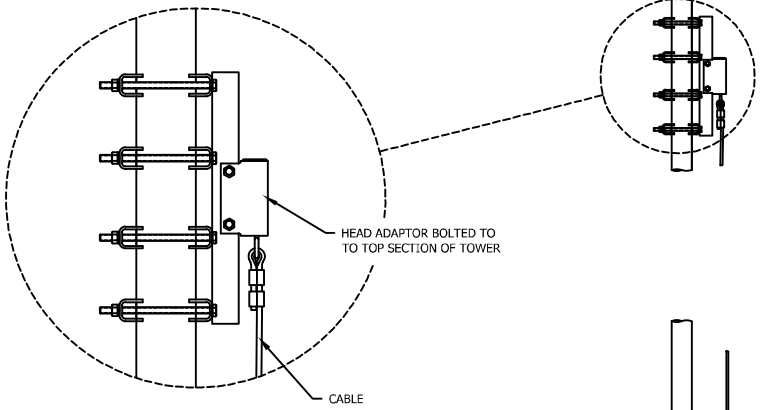
ENG'R: TWS

DRAWING NO: C020349

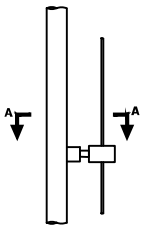
REV: 2

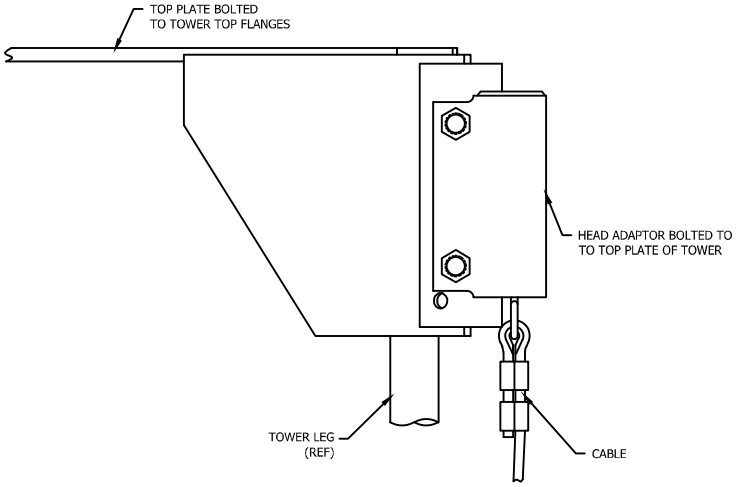
Oct/29/2007 1:05:33 PM

\Erection\

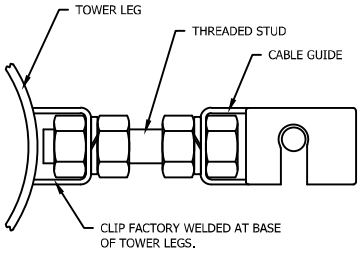


TOP CONNECTION
6N & LARGER SECTIONS

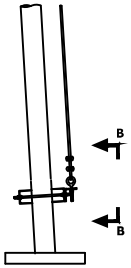


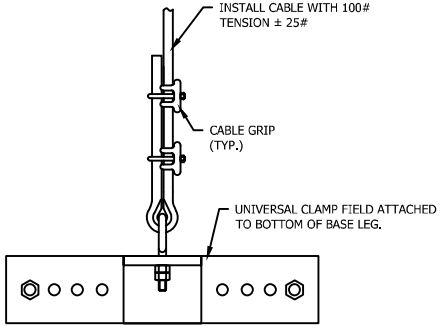


TOP CONNECTION
1W THROUGH 5N SECTIONS



SECTION A-A





VIEW B-B
(TOWER LEG NOT SHOWN)

FILE NO.

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
3	CORRECTED TOP CONNECTION VIEW DATE: 06/14/2013	ZAW	JDM	HA

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SAFETY CLIMB
TUF TUG LEG MOUNTED INSTALLATION

DWN:	CHK'D:	DATE:
CHW	JDM	05/12/2010
ENG'R:	SHEET #:	
HA	1 OF 1	
PRJ. ENG'R:	PRJ. MANG'R:	

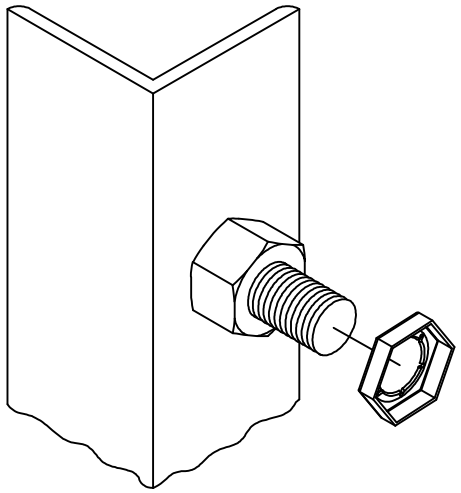
DRAWING NO:	REV:
DWG-0120	3

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

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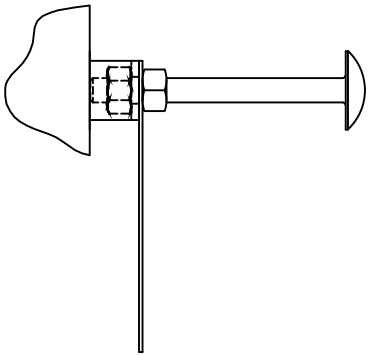
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BOLT ASSEMBLY INSTALLATION

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

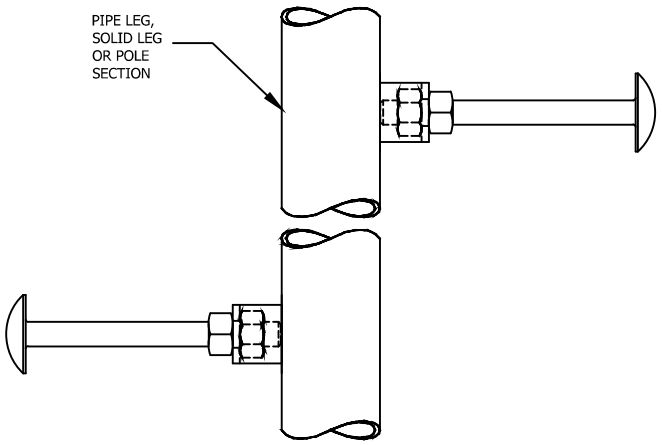
ENG'R:	SHEET #:
TWS	1 OF 1

DRAWING NO:	REV:
A790135	7



STEP BOLTS TO BE CLIMBED BY A COMPETENT CLIMBER ONLY. 100% FALL PROTECTION IS REQUIRED AT ALL TIMES. CLIMBING STEP BOLTS IS DANGEROUS AND CAN CAUSE SERIOUS INJURY OR DEATH. PERFORM AN INSPECTION PRIOR TO CLIMBING TO IDENTIFY POTENTIAL CLIMBING HAZARDS.

STEP BOLTS SPACING AT SECTION JOINTS MAY NOT BE CONSISTENT WITH THE SPACING THROUGHOUT THE STRUCTURE. FLANGE PLATES AT SECTION JOINTS, GUYS, ATTACHMENTS TO LEGS, ETC. MAY BE AN OBSTRUCTION TO CONTINUOUS CLIMBING.



STEP BOLT CLIMBING WARNING SIGN

(INSTALL WARNING SIGN IN BOTTOM 5' OF STRUCTURE)

NOTE

1. STEP BOLTS MUST BE TURNED UNTIL THE FRONT EDGE OF THE BOLT TOUCHES THE SIDE OF THE STRUCTURE.
2. STEP BOLTS ARE SUPPLIED FOR CONSTRUCTION PURPOSES AND ARE NOT INTENDED FOR USE BY UNQUALIFIED PERSONNEL.
3. DEVIATION FROM PERFECT ALIGNMENT IS ACCEPTABLE. SOME SPACING INCONSISTENCY MAY EXIST AT SPLICE LOCATIONS.
4. IF STEP BOLTS ARE BELIEVED TO PRESENT SAFETY PROBLEMS TO PERSONNEL, DO NOT INSTALL THE STEP BOLTS.

FILE NO.
Standard-SSV

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP
1	DATE: Aug/21/2005			
2	DATE: Aug/21/2005			
3	UPDATED DATE: Aug/22/2005	JDM	HA	HA
4	ADDED WARNING SIGN DATE: Mar/15/2006	JDM	JWS	H.A
5	REVISED GENERAL NOTES DATE: Feb/28/2007	JDM	M.F	H.A

DWG REFERENCE

ROHN PRODUCTS
6718 WEST PLANK ROAD
PEORIA, IL 61604
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STEP BOLT INSTALLATION DETAIL

DWN:	CHK'D:	DATE:
OH	TWS	Apr/16/1974

ENG'R: CW

DRAWING NO: B651264

REV: 5

Nov/15/2007 11:59:36 AM
\Erection\