

INSTALLATION MANUAL



ISO 9001: 2000 Registered

LITERATURE PART #5.95.0000.000*

Revision date: August 2014

* include with all SuperTitan Towers



Trylon

Building the Global Communications Infrastructure

21 South Field Drive, Elmira, Ontario, N3B 0A6 - Tel: (519)-669-5421 - Fax: (519)-669-8912

Website: www.trylon.com

NEW SUPERTITAN PACKAGING

Trylon TSF and the Stock Products group are proud to announce a major innovation for our SuperTitan Tower packaging. Trylon will no longer use wood crates to package SuperTitan sections 1 - 12HD, and their corresponding foundations. Instead the section's tower legs will be used to create a metal crate, pictured above (Patent Pending).



Within the tower legs all of the diagonals and sectional hardware will be nested. Steel end-caps are used seal the ends of the sections. This packaging, which will be fully implemented over the next few months, has been rigorously tested to ensure durability and strength in transport and will protect against the potential for a loss of section parts/hardware. During testing the new self-contained packaging vastly outperformed the existing wood crate.

This improved form of packaging will provide the customer with a product where the packaging material is up to 95.5% lighter and uses 72% less space in shipping (comparison photos can be seen below). This results in lowered freight costs and a cost savings to our end customers. This lowered freight also represents a reduced carbon footprint associated with shipping the tower material. An additional “Green” benefit is the reduction of waste on site. Empty crates no longer need to be disposed of as the Steel end-caps can be easily collected and recycled.

Trylon is extremely proud of our Packaging team for developing an innovative solution. We hope you the customer enjoy the environmental & cost benefits from the new design.

SuperTitan Unpacking Manual:

Step 1: Place SuperTitan section on flat, sturdy surface. Check section for any signs of damage.



Step 2: Disassemble the bolt connection that is connecting the end-cap to the top section leg.



Step 3: Remove Leg, exposing the section's hardware on the inside.



Step 4: Carefully remove the section's hardware, taking care to ensure all parts are accounted for.



Step 5: Disassemble the remaining bolt connections, and separate the section legs from the end-cap.



Step 6: Review SuperTitan Installation Manual, Part Number 5.95.0000.000.



Step 7: Recycle End-Cap and Bolt Assemblies.





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SuperTitan Manual Update:

Dear Customer;

Thank you for purchasing one of our SuperTitan Towers! Welcome to the Trylon family, we hope that you enjoy your tower purchase and that this tower meets your expectations of a high quality product. Ensuring quality in our products is something that Trylon always strive to achieve and we believe that it shows.

One of the ways we want to help you the customer is to indicate some updates to our product that are not yet shown in our manual. Please review the below update notes:

- 1) FOR PAGES 28-41(Dwg#1.620.014-1.620.0029): Sections 2F-13FHD will now have an additional hole on both sides of the angle at the bottom of the leg. This additional hole has been added to facilitate Trylon's NEW SuperTitan Packaging method. The addition of these two holes does not in any way affect the structural integrity of the leg.

- 2) FOR PAGES 17-25(Dwg#1.620.0058-1.620.0066): For Sections #13-21, all diagonal members now have two bolt holes at either end of the member. This change has been made to allow for easier installation. The addition of the second hole does not affect the diagonal's structural integrity.

If you ever have a question regarding the above or your tower in general please feel free to call our office at (519) 669-5421 or email info@trylon.com and ask for a representative from the Stock Products Team. We will gladly answer any questions you may have.

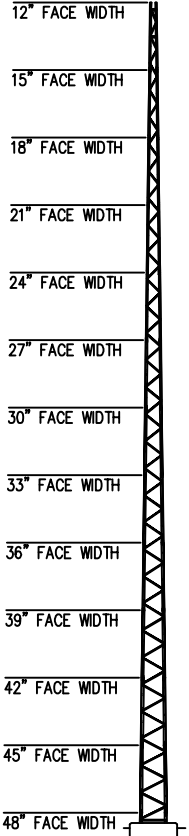
Thanks for taking the time to review and we hope you enjoy your tower.

Sincerely

The Stock Products Team
Trylon TSF

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SECT No	1	2	3	4	5	6	7	8	9	10	11	12
	KNOCKDOWN TOWER HEIGHT AND KIT NUMBER											
	120' TOWER #5.94.0100.120											
		110' TOWER #5.94.0100.110										
			100' TOWER #5.94.0100.100									
				90' TOWER #5.94.0100.090								
					80' TOWER #5.94.0100.080							
						70' TOWER #5.94.0100.070						
							60' TOWER #5.94.0100.060					
								50' TOWER #5.94.0100.050				
									40' TOWER #5.94.0100.040			
										30' TOWER #5.94.0100.030		
											20' TWR #5.94.0100.020	

SECT No	1	2	3	4	5	6	7	8	9	10	11	12
	PRE-ASSEMBLED TOWER HEIGHT AND KIT NUMBER											
	120' TOWER #5.95.0100.120											
		110' TOWER #5.95.0100.110										
			100' TOWER #5.95.0100.100									
				90' TOWER #5.95.0100.090								
					80' TOWER #5.95.0100.080							
						70' TOWER #5.95.0100.070						
							60' TOWER #5.95.0100.060					
								50' TOWER #5.95.0100.050				
									40' TOWER #5.95.0100.040			
										30' TOWER #5.95.0100.030		
											20' TWR #5.95.0100.020	

NOTES:

REV.	BY: REV.	BY: CHK.	DESCRIPTION	DATE

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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CUSTOMER:	SCALE: 200,000
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BY:	APP:
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SUPERTITAN SELF SUPPORT

SUPERTITAN TOWER INSTRUCTION SHEET

- 1) Check all tower sections for damage before signing the shipping papers.
- 2) ID any material that is damaged or missing, note it on all copies of the shipping papers for future reference. (note: do not attempt to repair damaged members, as this will weaken the structure.)
- 3) Assembly instructions are located in a plastic bag with the hardware.
- 4) Check for proper quantities of hardware. Bolt sizes are noted on the assembly drawings.
- 5) Before erection, check for loose or missing bolts and tighten or replace as required.
- 6) Excavate for concrete base as shown on foundation drawing and install reinforcing bars.
- 7) Assemble 5 foot base section and place in excavation. Top of base leg must be 16" above finished concrete. Plumb tower section with a transit or level.
- 8) Pour concrete and allow to harden for one (1) week.
- 9) Tower may be erected one (1) section at a time by using the gin pole method or by lifting section with a crane. (note: do not attach antenna before tower is erected and all bolts are tightened)
- 10) All tower bolts shall be installed to a snug-tight condition. Snug-tight is defined as the tightness obtained by a few impacts of an impact wrench or the full effort of a person using a spud wrench such that all piles of the joint are in firm contact.
 - 11) Any a325 bolt ass'y that has been removed after tightening must be replaced.
 - 12) All tower bracing and leg splice bolts shall be a325 (unless noted otherwise).
 - 13) All a325 bolt assemblies shall be in full bearing.
 - 14) Where extra flat washers are used to achieve full bearing, on bracing members, the flat washers shall be installed under the nut.
 - 15) Bolt assemblies shall be installed with nuts and washers to the "outside" of the tower (u.N.O.)
 - 16) Tower members are identical on all (3) faces (unless noted otherwise).
 - 17) Where suffix (*) follows bolt description an additional flat washer is required.
 - 18) Do not exceed manufacturer's loading specification.
 - 19) Only an experienced installer should carry out the installation.
 - 20) Complete tower inspection is recommended every two (2) to three (3) years.

SUPERTITAN TOWER SECTION FIELD ASSEMBLY INSTRUCTIONS.

- 1) Assembly should be undertaken by qualified and experienced personal only.
- 2) To determine the top of a leg, the leg part number is stamped towards the top end of the leg.
- 3) To ensure trueness sections must be assembled on a level surface. Timbers and adjustable jack stands can be used to create an assembly jig for this purpose.
- 4) Assemble one complete face (two legs C/W all bracing) on the jig, leaving bolts hand tight. All bracing should be installed with the heel of the angle towards the top of the section.
- 5) Measure the c/c distance between the top bolt of leg 1 and the bottom bolt of leg 2. Repeat this measurement between top bolt of leg 2 and bottom and bottom bolt of leg 1. Both measurements will be identical if assembly is true. Adjust leg positions until this is achieved and carefully tighten one brace at each end of section. Verify trueness and tighten all bolts fully.
- 6) Install the top two diagonals and the bottom diagonal of the other faces on each leg of the assembled face. Lift leg 3 over the center and connect those six members to it. Install all remaining bracing on both faces leaving bolts hand tight.
- 7) Measure for and achieve trueness of new faces as described in 4) above. Fully tighten all bolts.

NOTES:

SUPERTITAN TOWER INSTRUCTION SHEET

- 1) Erection should be undertaken by qualified and experienced personnel only.
- 2) Prior to erection verify trueness of all sections. (See Supertitan Tower Section Field Assembly Instructions 5) for method). This is an important first step in achieving tower plumb. To skip this step will make it more complicated to correct any problems which may arise during erection.
- 3) Erection can be done lifting one section at a time or lifting assemblies of multiple sections, using a gin pole or a crane. Whatever the chosen method, care must always be taken to achieve and maintain tower plumb throughout the process. Each method presents it's own problems.
- 4) If erection is undertaken in high wind conditions, care must be taken to counter any effect on tower plumb before final splice bolt tightening.
- 5) If erection is undertaken using a gin pole, the effect of the rig (weight and pull direction) on tower plumb must be considered and countered.
- 6) If tower is to be erected in lifts consisting of multiple sections. Lifts must be assembled without introducing bends or twists. Lift assembly must be on a level surface using timber cribbing as needed. With splice bolts brought "snug tight" as defined in 10) of the Supertitan Tower Instruction Sheet.
- 7) When lifting multiple sections care must be taken in choosing slinging method and tie points to avoid introducing any deformations during the lifting process.
- 8) When connecting lifts on the tower splice bolts are first installed hand tight until the lifting line or crane or gin pole rig can be stacked off sufficiently to eliminate any effect on tower plumb. Only then can they be brought to "snug tight" condition.
- 9) Tower plumb should be monitored continuously during erection by observing deflection of each leg using a transit or a theodolite. As soon as a problem is detected the cause should be found and corrected. Before continuing with erection all splices should then be tightened fully, starting at the bottom and moving up. Full tightness is defined in section 10) of Supertitan Tower Instruction Sheet.
- 10) When all sections are installed and tower plumb is confirmed all remaining "snug tight" splice bolts should be fully tightened. Starting with the lowest and moving upwards.
- 11) Once the erection of tower is complete and final, antennas and other accessories can be installed.

SUPERTITAN OVERVIEW

- 1) All towers are triangular in cross section.
- 2) Legs constructed from 350W structural angle formed to 60 degrees.
- 3) Diagonals and horizontals constructed from 350W structural angle.
- 4) Bolts are ASTM-A325.
- 5) All tower components including bolts are hot dipped galvanized.
- 6) The middle of diagonal members are designed to support a climber of maximum 200 pounds.
- 7) Towers are available in pre-assembled sections or knock-down sections.
- 8) Knock-down tower must be professionally assembled with the use of proper assembly jigs.
- 9) Knock-down tower are ideal for large quantity requirements where freight cost is a major factor.
- 10) Tower may be constructed using any sequential portion of the twelve 10-foot sections which comprise this structure. For example, the top 80 feet may be chosen to support a small antenna load or the bottom 80 feet could be selected to support a larger antenna load.
- 11) Please refer to our tower design program to determine the right tower for your requirements.

REV.	BY:	BY:	DESCRIPTION	DATE
		CHK:		
REFERENCE DRAWINGS:				
DRAWING NUMBER		DRAWING NUMBER		
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06 SEP 03				
TITLE: SUPERTITAN INSTRUCTIONS				



DRAWING NO.
000001.620.0046

TURN-OF-NUT TIGHTENING

1. AFTER ALIGNING THE HOLES IN A JOINT, SUFFICIENT BOLTS SHALL BE PLACED AND BROUGHT TO A SNUG-TIGHT CONDITION TO ENSURE THAT THE PARTS OF THE JOINT ARE BROUGHT INTO FULL CONTACT WITH EACH OTHER. "SNUG-TIGHT" IS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING A SPUD WRENCH.
2. FOLLOWING THE INITIAL SNUGGING OPERATION, BOLTS SHALL BE PLACED IN ANY REMAINING OPEN HOLES AND BROUGHT TO SNUG-TIGHTNESS. RE-SNUGGING MAY BE NECESSARY IN LARGE JOINTS.
3. WHEN ALL BOLTS ARE SNUG-TIGHT, EACH BOLT IN THE JOINT SHALL THEN BE TIGHTENED ADDITIONALLY BY THE APPLICABLE AMOUNT OF RELATIVE ROTATION GIVEN IN THE CHART BELOW, WITH TIGHTENING PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT TO IT'S FREE EDGES. DURING THIS OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH, UNLESS THE BOLT AND NUT ARE MATCH-MARKED TO ENABLE THE AMOUNT OF RELATIVE ROTATION TO BE DETERMINED.
4. ANY BOLT THAT IS LOOSENED AFTER INITIAL TENSION NEEDS TO BE REPLACED.

Bolt Diameter (Inch)	Bolt Length (inch)	Turns beyond snug tight	Bolt Diameter (Inch)	Bolt Length (inch)	Turns beyond snug tight	Bolt Diameter (Inch)	Bolt Length (inch)	Turns beyond snug tight
1/2	up to 2 inch	1/3	1/2	over 2 up to 4 inch	1/2	1/2	over 4 inch	2/3
5/8	up to 2.5 inch	1/3	5/8	over 2.5 up to 5	1/2	5/8	over 5	2/3
3/4	up to 3 inch	1/3	3/4	over 3 up to 6	1/2	3/4	over 6	2/3
7/8	up to 3.5 inch	1/3	7/8	over 3.5 up to 7	1/2	7/8	over 7	2/3
1	up to 4 inch	1/3	1	over 4 up to 8	1/2	1	over 8	2/3

NOTE: TOLERANCE ON ROTATION = 30' OVER OR UNDER.


NOTE: BOLT LENGTH IS MEASURED FROM THE UNDERSIDE OF THE HEAD TO THE EXTREME END OF POINT.

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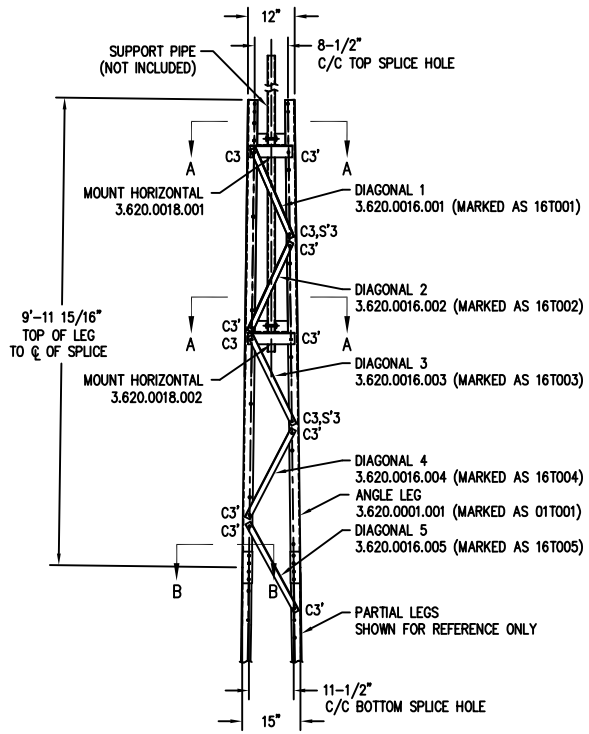
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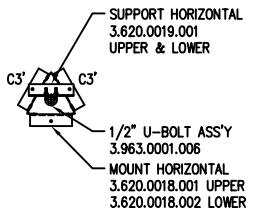
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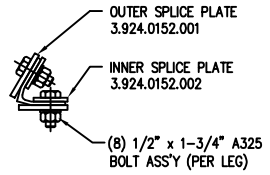


BOLT SCHEDULE		
MARK	SIZE	QTY
C3	1/2" x 1-1/2" A325	12
C3*	1/2" x 1-1/2" A325 + FLATWASHER	28
S'3	3/16" x 2" x 2" SPACER c/w 9/16" HOLE	6

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	REV.	CHK.		



SUPPORT INSTALLATION
SECTION A-A



SPLICE DETAIL #1
SECTION B-B

PRE-ASSEMBLED TOP SECTION #1 - KIT #5.95.0012.000
 KNOCK-DOWN TOP SECTION #1 - KIT #5.94.0012.000

NOTES: LEG: V 2-1/2" x 2-1/2" x 3/16" ANGLE (50W)
 DIAGONAL: 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 TOP SECTION HORIZONTAL: 3" x 3" x 3/16" ANGLE (44W)

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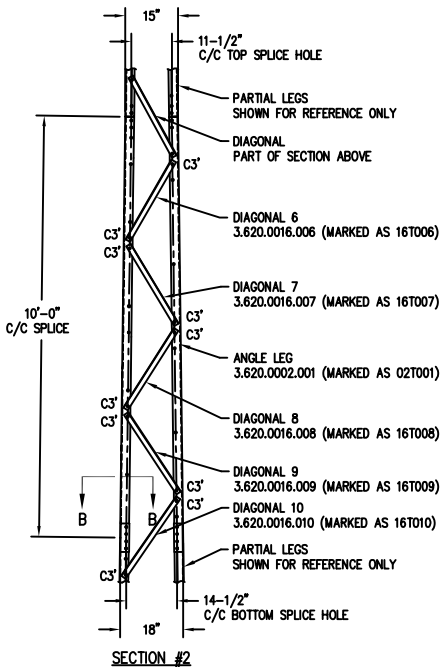
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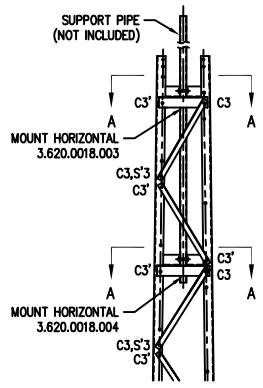
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DATE: 23 JAN 03 BY: CHK: APP:

TITLE: ASSEMBLY OF SECTION #1

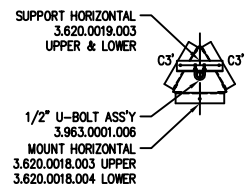


PRE-ASSEMBLED SECTION #2 - KIT #5.95.0021.000
 KNOCK-DOWN SECTION #2 - KIT #5.94.0021.000



TOP SECTION #2
 (INCLUDES ALL PARTS SHOWN IN SECTION #2)

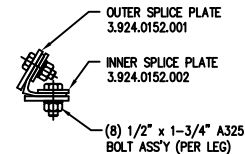
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 KNOCK-DOWN TOP SECTION #2 - KIT #5.94.0022.000



SUPPORT INSTALLATION
SECTION A-A

BOLT SCHEDULE SECTION #2		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + FLATWASHER	30

BOLT SCHEDULE TOP SECTION #2		
MARK	SIZE	QTY
C3	1/2" x 1-1/2" A325	12
C3'	1/2" x 1-1/2" A325 + FLATWASHER	28
S'3	3/16" x 2" x 2" SPACER c/w 9/16" HOLE	6



SPLICE DETAIL #1
SECTION B-B

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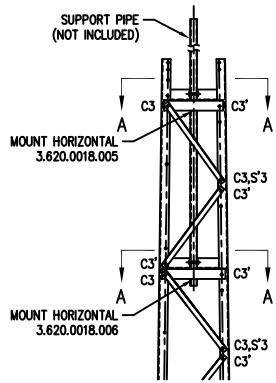
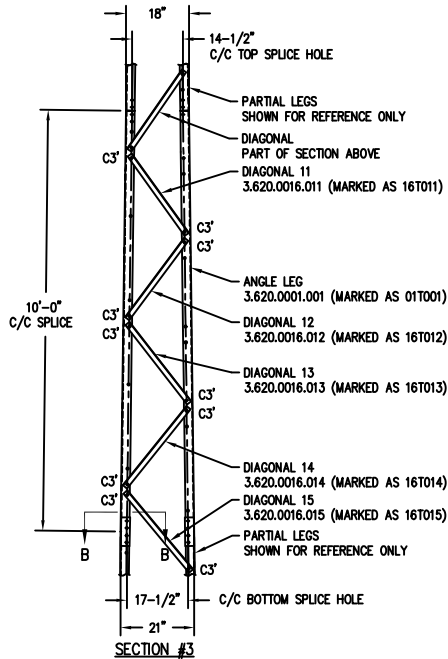
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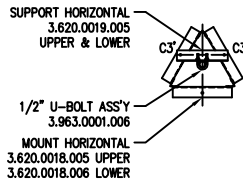
NOTES: LEG: V 2-1/2" x 2-1/2" x 3/16" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)



TOP SECTION #3

(INCLUDES ALL PARTS SHOWN IN SECTION #3)

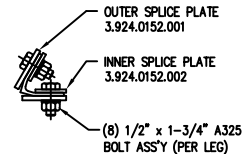
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KNOCK-DOWN TOP SECTION #3 - KIT #5.94.0032.000



SUPPORT INSTALLATION
SECTION A-A

BOLT SCHEDULE SECTION #3		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + FLATWASHER	30

BOLT SCHEDULE TOP SECTION #3		
MARK	SIZE	QTY
C3	1/2" x 1-1/2" A325	12
C3'	1/2" x 1-1/2" A325 + FLATWASHER	28
S'3	3/16" x 2" x 2" SPACER c/w 9/16" HOLE	6



SPLICE DETAIL #1
SECTION B-B

PRE-ASSEMBLED SECTION #3 - KIT #5.95.0031.000
KNOCK-DOWN SECTION #3 - KIT #5.94.0031.000


NOTES: LEG: V 2-1/2" x 2-1/2" x 3/16" ANGLE (50W)
DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)

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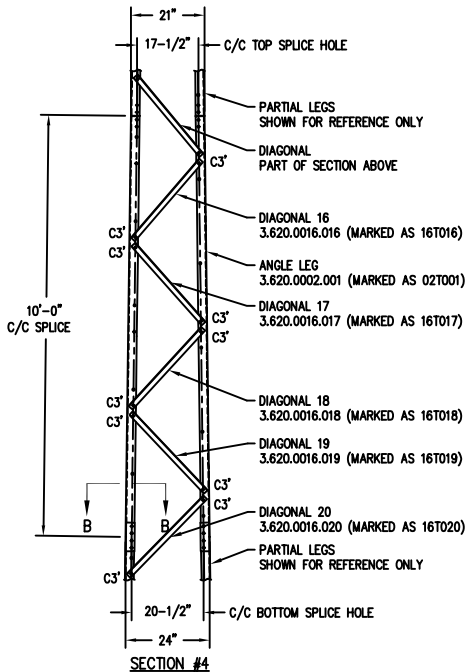
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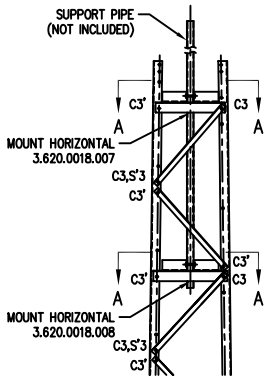
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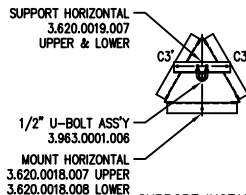
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KNOCK-DOWN SECTION #4 - KIT #5.94.0041.000



TOP SECTION #4

(INCLUDES ALL PARTS SHOWN IN SECTION #4)

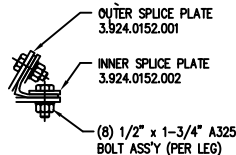
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KNOCK-DOWN TOP SECTION #4 - KIT #5.94.0042.000



**SUPPORT INSTALLATION
SECTION A-A**

BOLT SCHEDULE SECTION #4		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + FLATWASHER	30

BOLT SCHEDULE TOP SECTION #4		
MARK	SIZE	QTY
C3	1/2" x 1-1/2" A325	12
C3'	1/2" x 1-1/2" A325 + FLATWASHER	28
S'3	3/16" x 2" x 2" SPACER c/w 9/16" HOLE	6



**SPLICE DETAIL #1
SECTION B-B**

REV.	BY:	BY:	DESCRIPTION	DATE
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REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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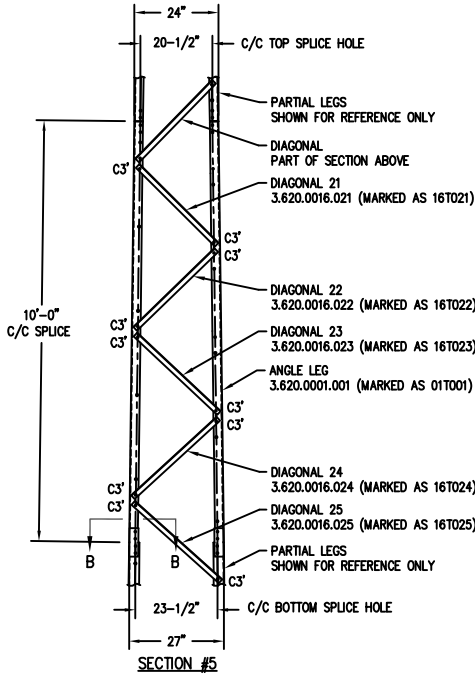
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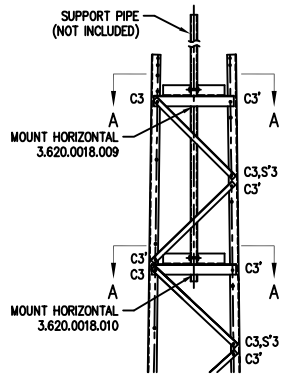
DATE: 27 JAN 03 BY: ML CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #4

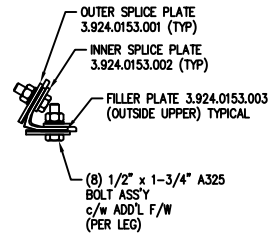
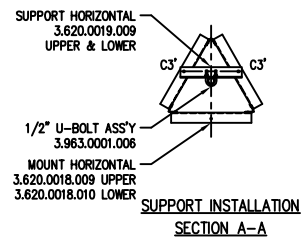
NOTES: LEG: V 2-1/2" x 2-1/2" x 3/16" ANGLE (50W)
DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)



PRE-ASSEMBLED SECTION #5 - KIT #5.95.0051.000
 KNOCK-DOWN SECTION #5 - KIT #5.94.0051.000



TOP SECTION #5
 (INCLUDES ALL PARTS SHOWN IN SECTION #5)
 PRE-ASSEMBLED TOP SECTION #5 - KIT #5.95.0052.000
 KNOCK-DOWN TOP SECTION #5 - KIT #5.94.0052.000



BOLT SCHEDULE SECTION #5		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + FLATWASHER	30

BOLT SCHEDULE TOP SECTION #5		
MARK	SIZE	QTY
C3	1/2" x 1-1/2" A325	12
C3'	1/2" x 1-1/2" A325 + FLATWASHER	28
S'3	3/16" x 2" x 2" SPACER c/w 9/16" HOLE	6

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

NOTES: LEG: V 2-1/2" x 2-1/2" x 3/16" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)

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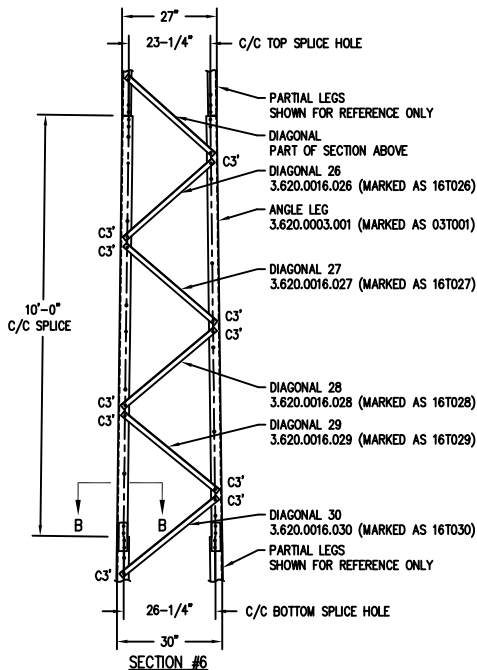
Trylon

DRAWING NO. 000001.620.0006

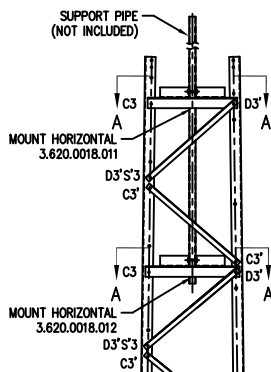
CUSTOMER: SITE: SCALE: 25.000

DATE: 27 JAN 03 BY: ML CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #5



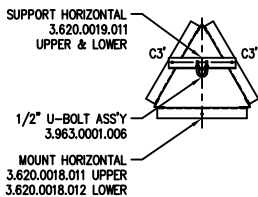
PRE-ASSEMBLED SECTION #6 - KIT #5.95.0061.000
 KNOCK-DOWN SECTION #6 - KIT #5.94.0061.000



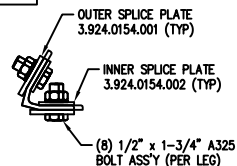
TOP SECTION #6

(INCLUDES ALL PARTS SHOWN IN SECTION #6)

PRE-ASSEMBLED TOP SECTION #6 - KIT #5.95.0062.000
 KNOCK-DOWN TOP SECTION #6 - KIT #5.94.0062.000



SUPPORT INSTALLATION SECTION A-A



SPlice DETAIL #3 SECTION B-B

BOLT SCHEDULE SECTION #6		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + FLATWASHER	30

BOLT SCHEDULE TOP SECTION #6		
MARK	SIZE	QTY
C3	1/2" x 1-1/2" A325	6
C3'	1/2" x 1-1/2" A325 + FLATWASHER	22
D3'	1/2" x 1-3/4" A325 + FLATWASHER	12
S'3	3/16" x 2" x 2" SPACER c/w 9/16" HOLE	6

REV.	BY:	CHK:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

NOTES: LEG: V 3" x 3" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)

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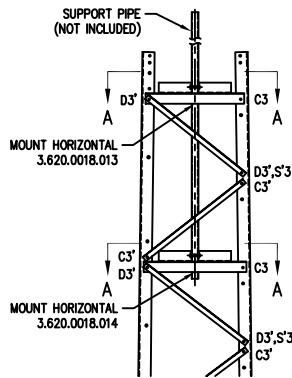
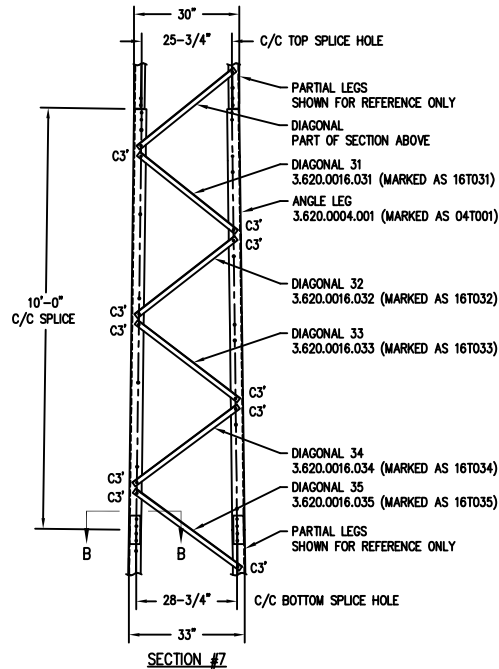
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DRAWING NO. 000001.620.0007

CUSTOMER: SITE: SCALE: 25.000

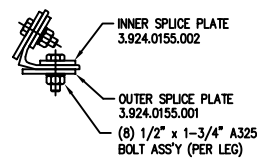
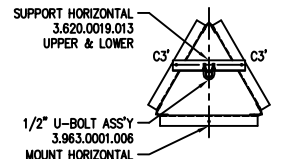
DATE: 28 JAN 03 BY: ML CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #6



(INCLUDES ALL PARTS SHOWN IN SECTION #7)

PRE-ASSEMBLED TOP SECTION #7 - KIT #5.95.0072.000
 KNOCK-DOWN TOP SECTION #7 - KIT #5.94.0072.000



BOLT SCHEDULE SECTION #7		
MARK	SIZE	QTY
C3*	1/2" x 1-1/2" A325 + FLATWASHER	30

BOLT SCHEDULE TOP SECTION #7		
MARK	SIZE	QTY
C3	1/2" x 1-1/2" A325	6
C3*	1/2" x 1-1/2" A325 + FLATWASHER	22
D3*	1/2" x 1-3/4" A325 + FLATWASHER	12
S'3	3/16" x 2" x 2" SPACER c/w 9/16" HOLE	6

REV.	BY:	CHK:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

PRE-ASSEMBLED SECTION #7 - KIT #5.95.0071.000
 KNOCK-DOWN SECTION #7 - KIT #5.94.0071.000

NOTES: LEG: V 3-1/2" x 3-1/2" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)

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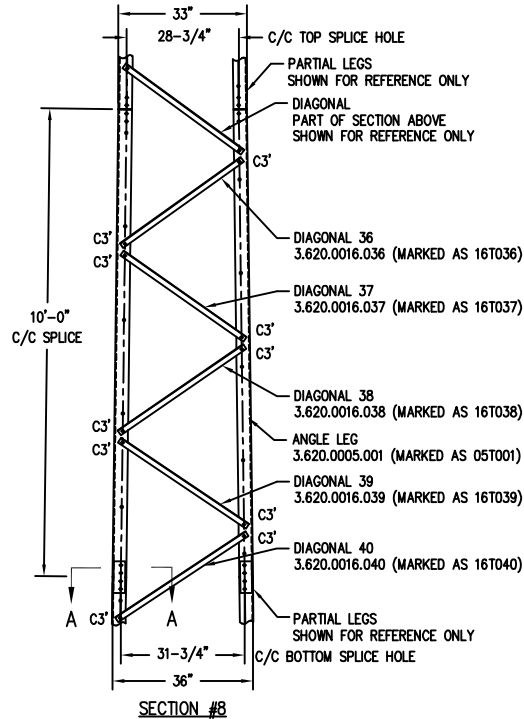
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CUSTOMER: SITE: SCALE: 25.000

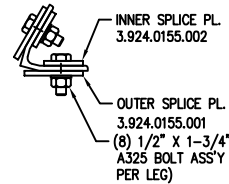
DATE: 28 JAN 03 BY: ML CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #7



BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	30

REV.	BY:	CHK:	DESCRIPTION	DATE

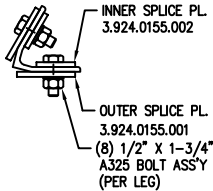
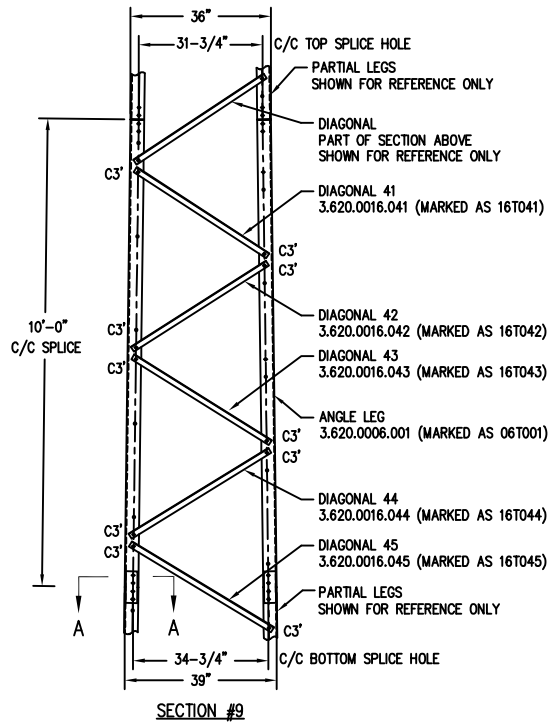


REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

PRE-ASSEMBLED SECTION #8 - KIT #5.95.0081.000
 KNOCK-DOWN SECTION #8 - KIT #5.94.0081.000

NOTES: LEG: V 3-1/2" x 3-1/2" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)

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			CUSTOMER:	SCALE: 25.000
DATE: 27 JAN 03	BY: AL	CHK: MAW	APP: JB	TITLE: ASSEMBLY OF SECTION #8



SECTION A-A
SPLICE DETAIL #4

BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	30

REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

PRE-ASSEMBLED SECTION #9 - KIT #5.95.0091.000
 KNOCK-DOWN SECTION #9 - KIT #5.94.0091.000

NOTES: LEG: V 3-1/2" x 3-1/2" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)

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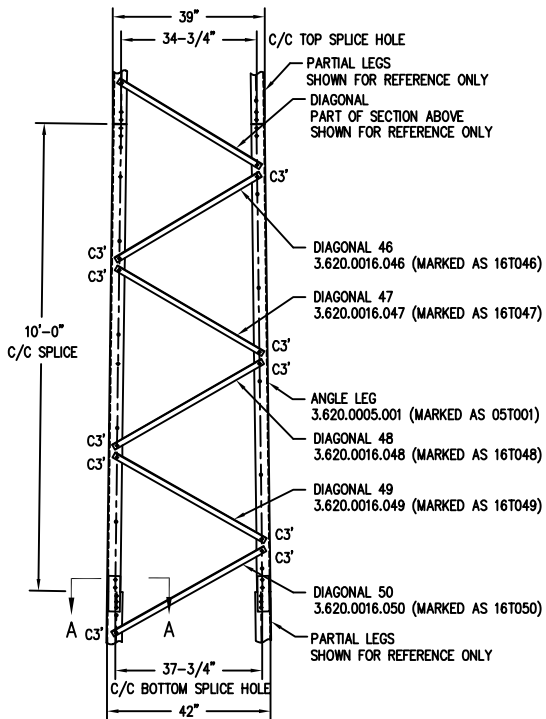
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CUSTOMER: SITE: SCALE: 25.000

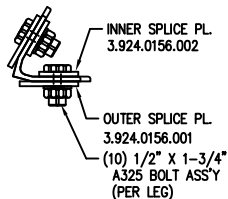
DATE: 27 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #9



SECTION #10

BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	30



SECTION A-A
SPLICE DETAIL #5

PRE-ASSEMBLED SECTION #10 - KIT #5.95.0101.000
 KNOCK-DOWN SECTION #10 - KIT #5.94.0101.000


NOTES: LEG: V 3-1/2" x 3-1/2" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)

REV.	BY:	CHK:	DESCRIPTION	DATE

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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 CUSTOMER:



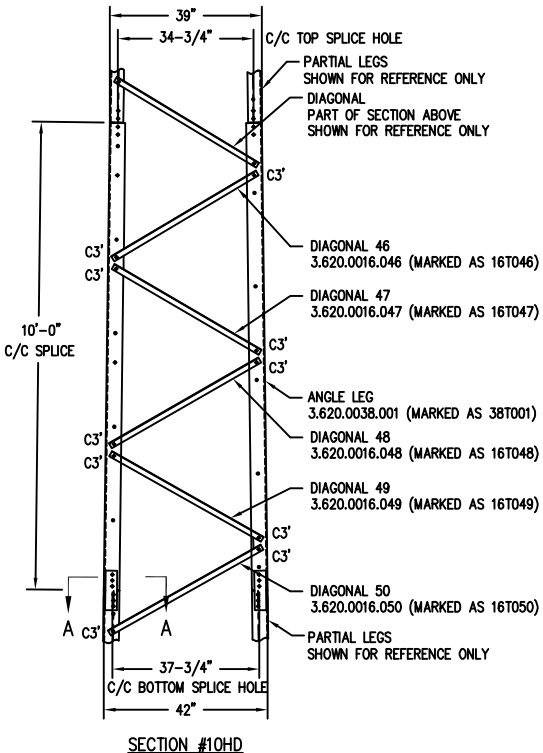
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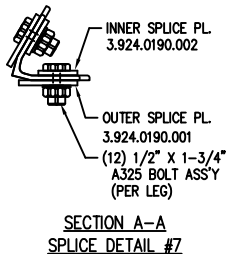
SITE:
SCALE:
25.000

DATE: 27 JAN 03	BY: AL	CHK: MAW	APP: JB
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TITLE:
ASSEMBLY OF SECTION #10



BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + EXTRA F/W	30




REV.	BY:	BY:	DESCRIPTION	DATE
	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

PRE-ASSEMBLED SECTION #10HD - KIT #5.95.0101.0HD
 KNOCK-DOWN SECTION #10HD - KIT #5.94.0101.0HD

NOTES: LEG: V 4" x 4" x 5/16" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)

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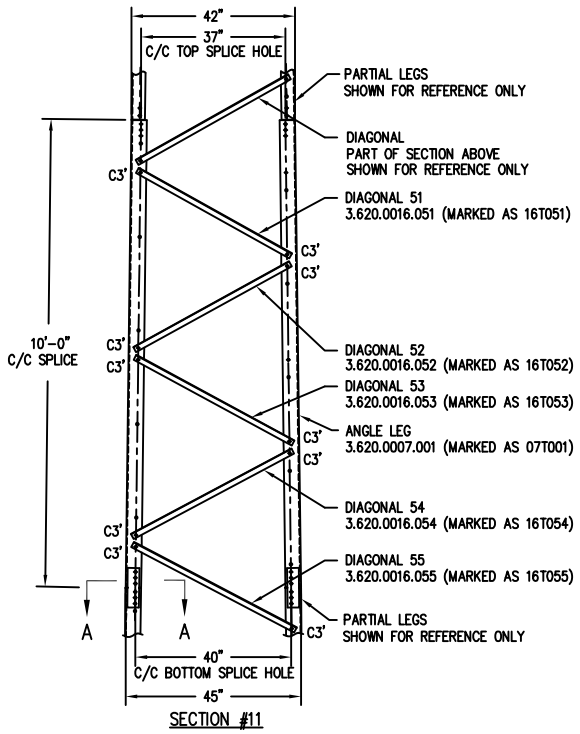


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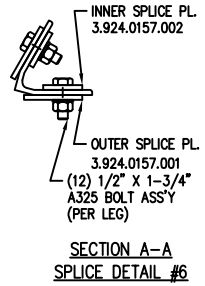
CUSTOMER: SITE: SCALE: 25.000

DATE: 09 APR 07 BY: MRH CHK: CR APP: JB

TITLE: SECTION 10 HD ANGLE LEG



BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	30



PRE-ASSEMBLED SECTION #11 - KIT #5.95.0111.000
 KNOCK-DOWN SECTION #11 - KIT #5.94.0111.000

NOTES: LEG: V 4" x 4" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)

REV.	BY:	CHK:	DESCRIPTION	DATE

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

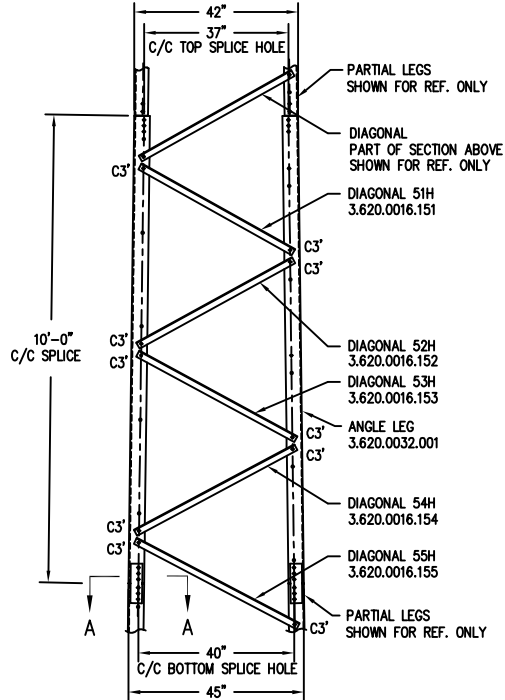
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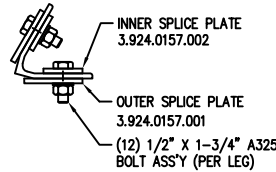
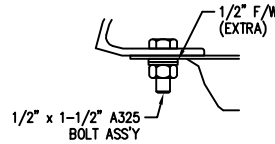
DATE: 27 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #11

SECTION #11HD



TOWER MEMBER CONN.



SECTION A-A
SPLICE DETAIL #6

BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" X 1-1/2" A325 + F/W	30

REV.	BY:	CHK:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

PRE-ASSEMBLED SECTION #11HD - KIT #5.95.0111.0HD
 KNOCK-DOWN SECTION #11HD - KIT #5.94.0111.0HD

NOTES: LEG: V 4" X 4" X 5/16" ANGLE (50W)
 DIAGONAL: L 1-3/4" X 1-3/4" X 3/16" ANGLE (44W)

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Trylon

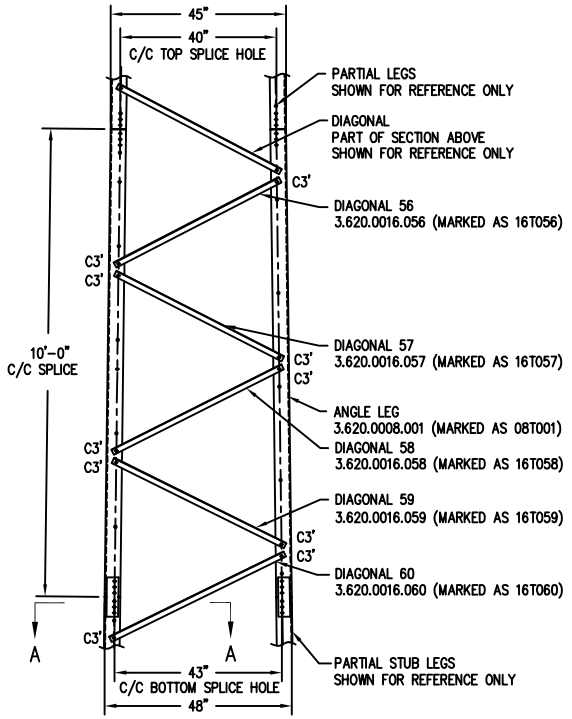
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CUSTOMER: SITE: SCALE: 25,000

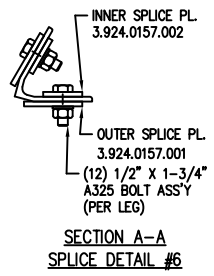
DATE: 03 JUN 04 BY: MAW CHK: JAG APP: JAG

TITLE: ASSEMBLY OF SECTION #11HD

BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	30



SECTION #12



NOTES: LEG: V 4" x 4" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)


PRE-ASSEMBLED SECTION #12 - KIT #5.95.0121.000
 KNOCK-DOWN SECTION #12 - KIT #5.94.0121.000

REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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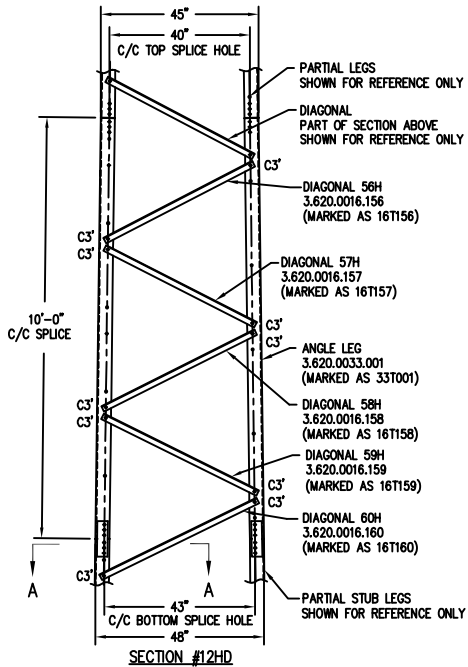
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DRAWING NO. 000001.620.0013

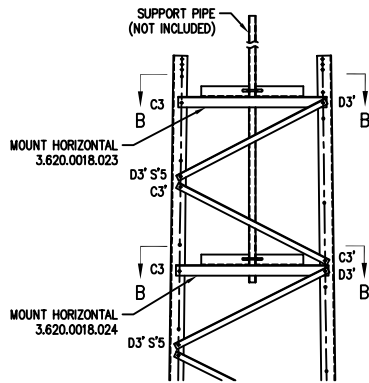
CUSTOMER: SITE: SCALE: 25,000

DATE: 27 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #12

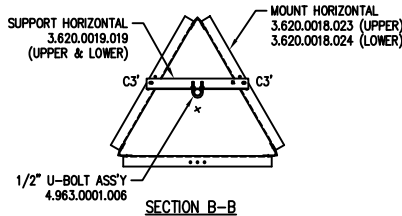


PRE-ASSEMBLED SECTION #12HD - KIT #5.95.0121.OHD
 KNOCK-DOWN SECTION #12HD - KIT #5.94.0121.OHD



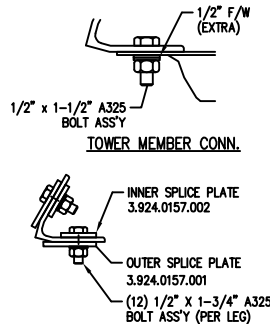
TOP SECTION #12HD
 (INCLUDES ALL PARTS SHOWN IN SECTION #12HD)

PRE-ASSEMBLED TOP SECTION #12HD - KIT #5.95.0122.OHD
 KNOCK-DOWN TOP SECTION #12HD - KIT #5.94.0122.OHD



BOLT SCHEDULE SECTION #12HD		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	30

BOLT SCHEDULE TOP SECTION #12HD		
MARK	SIZE	QTY
C3	1/2" x 1-1/2" A325	6
C3'	1/2" x 1-1/2" A325 + F/W	18
D3'	1/2" x 1-3/4" A325 + F/W	12
S'5	5/16"x2"x2" SPACER c/w 9/16"Ø HOLE	6




SECTION A-A
 SPLICE DETAIL #6

REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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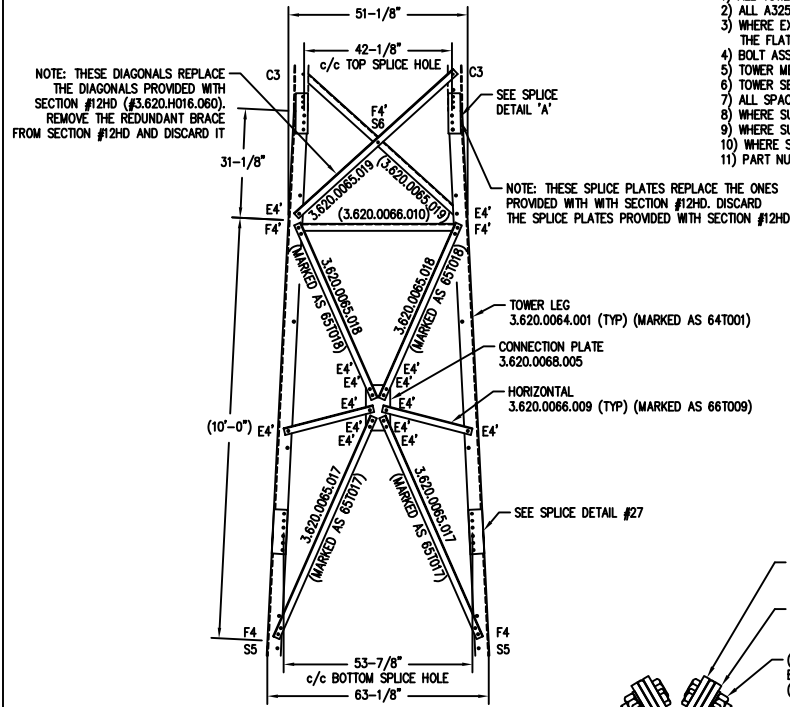
DRAWING NO. 000001.620.0027

CUSTOMER: SITE: SCALE: 25.000

DATE: 01 JUN 05 BY: MRH CHK: JAG APP: JB

TITLE: ASSEMBLY OF SECTION #12HD

NOTES: LEG: V 4" x 4" x 5/16" ANGLE (50W)
 DIAGONAL: L 1-3/4" x 1-3/4" x 3/16" ANGLE (44W)

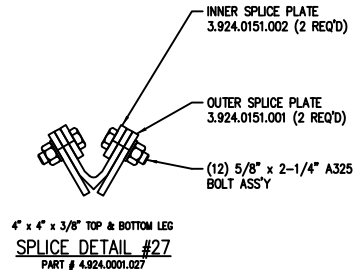
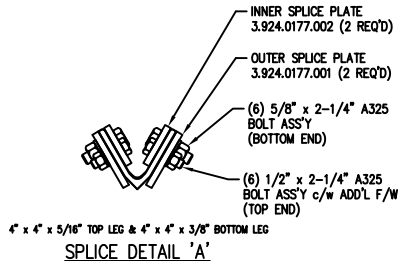


NOTE: THESE DIAGONALS REPLACE THE DIAGONALS PROVIDED WITH SECTION #12HD (#3.620.H016.060). REMOVE THE REDUNDANT BRACE FROM SECTION #12HD AND DISCARD IT

NOTE: THESE SPlice PLATES REPLACE THE ONES PROVIDED WITH WITH SECTION #12HD. DISCARD THE SPlice PLATES PROVIDED WITH SECTION #12HD

- GENERAL ASSEMBLY NOTES:**
- 1) ALL TOWER BRACING AND LEG SPlice BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
 - 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
 - 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
 - 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
 - 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
 - 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE I.e., LEVELED TIMBERS OR EQUAL.
 - 7) ALL SPACERS ARE 2" x 2" THICKNESS NOTED.
 - 8) WHERE SUFFIX () FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
 - 9) WHERE SUFFIX () FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"ø.
 - 10) WHERE SUFFIX () FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"ø.
 - 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.

BOLT SCHEDULE		
MARK	SIZE	QTY
C3	1/2" x 1-1/2" A325	6
E4'	5/8" x 2" A325 + FLATWASHER	42
F4	5/8" x 2-1/4" A325	6
F4'	5/8" x 2-1/4" A325 + FLATWASHER	9
S5	5/16" x 2" x 2" SPACER c/w 11/16"ø HOLE	6
S6	3/8" x 2" x 2" SPACER c/w 11/16"ø HOLE	3



KNOCK-DOWN SECTION #13 - KIT #5.94.0131.000

NOTES: SECTION PROPERTIES
 LEG: V 4" x 4" x 3/8" (50W)
 DIAGONAL: L 2" x 2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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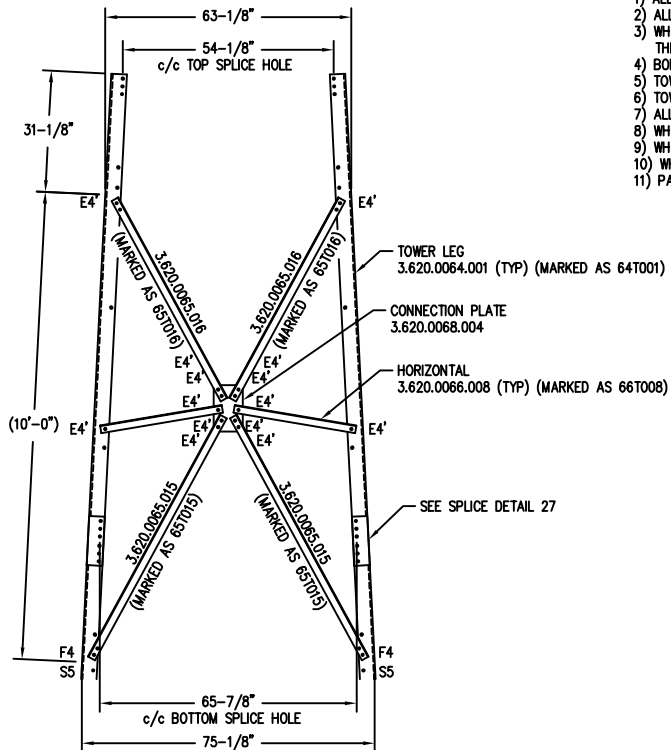
Trylon

DRAWING NO. 000001.620.0058

CUSTOMER: SITE: SCALE: 25.000

DATE: 09 JUN 04 BY: MAW CHK: RW APP: JB

TITLE: SECTION 13 ASSEMBLY

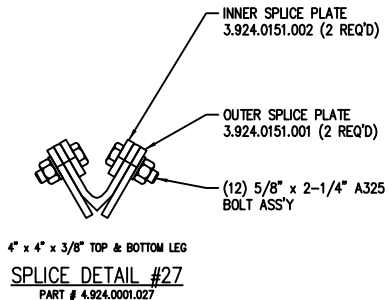


GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"Ø.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"Ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.

BOLT SCHEDULE

MARK	SIZE	QTY
E4'	5/8" x 2" A325 + FLATWASHER	42
F4	5/8" x 2-1/4" A325	6
S5	5/16" x 2" x 2" SPACER c/w 11/16"Ø HOLE	6



KNOCK-DOWN SECTION #14 - KIT #5.94.0141.000

NOTES: SECTION PROPERTIES

- LEG: V 4" x 4" x 3/8" (50W)
- DIAGONAL: L 2" x 2" x 3/16" (44W)
- HORIZONTAL: L 2" x 2" x 3/16" (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
	REV.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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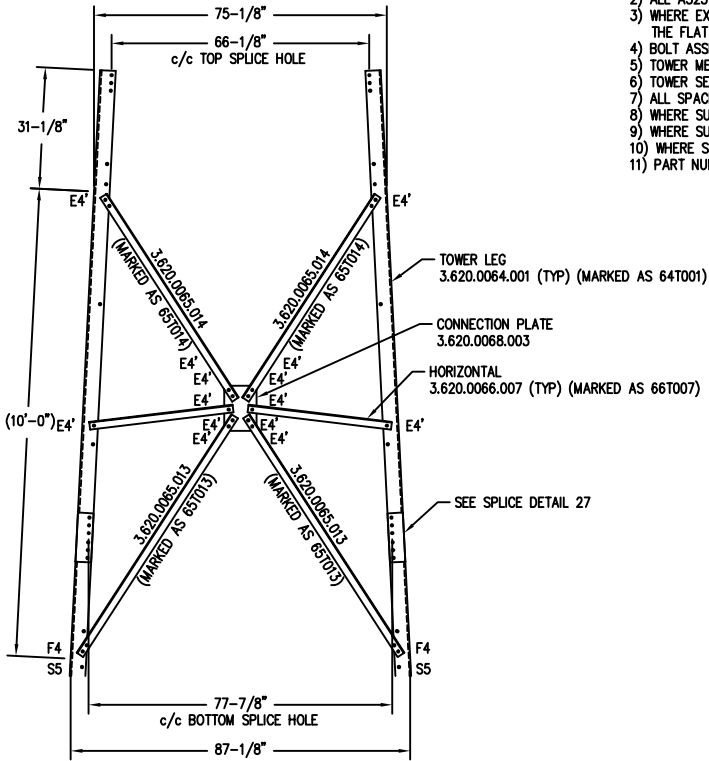
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DRAWING NO. 000001.620.0059

CUSTOMER: SITE: SCALE: 25.000

DATE: 09 JUN 04 BY: MAW CHK: RW APP: JB

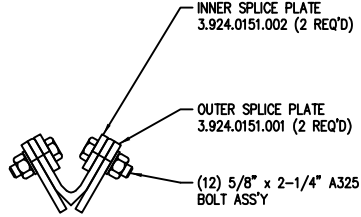
TITLE: SECTION 14 ASSEMBLY



GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE I.E.. LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (') FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"φ.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"φ.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.

BOLT SCHEDULE		
MARK	SIZE	QTY
E4'	5/8" x 2" A325 + FLATWASHER	42
F4	5/8" x 2-1/4" A325	6
SS	5/16" x 2" x 2" SPACER c/w 11/16"φ HOLE	6



4" x 4" x 3/8" TOP & BOTTOM LEG
SPLICE DETAIL #27
 PART # 4.924.0001.027

KNOCK-DOWN SECTION #15 - KIT #5.94.0151.000

NOTES: SECTION PROPERTIES
 LEG: V 4" x 4" x 3/8" (50W)
 DIAGONAL: L 2" x 2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. **000001.620.0060**

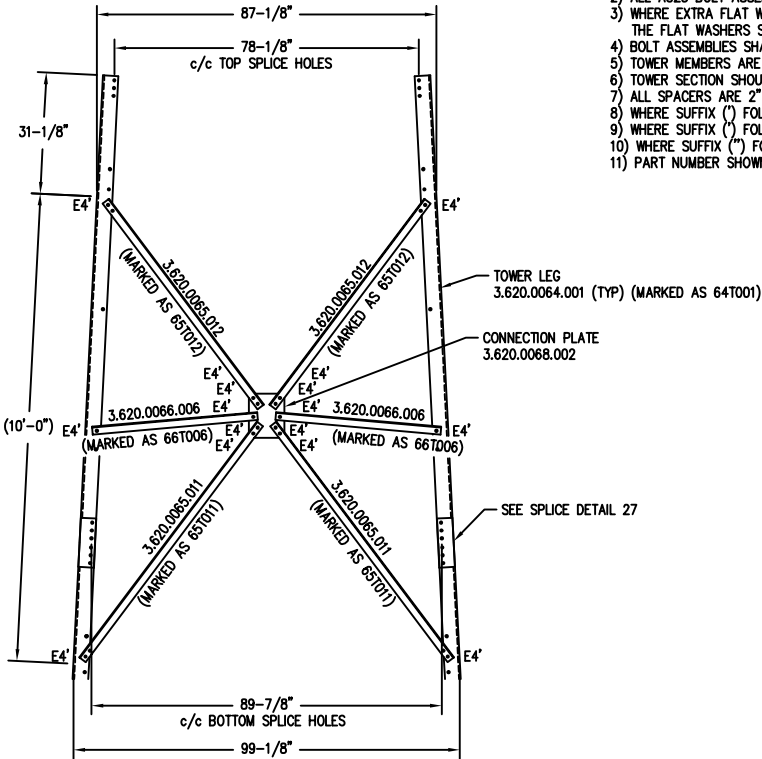
CUSTOMER: SITE: SCALE: **25.000**

DATE: **09 JUN 04** BY: **MAW** CHK: **RW** APP: **JB**

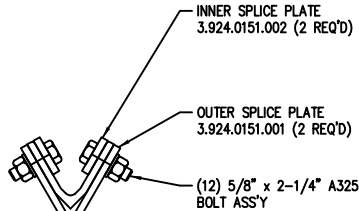
TITLE: **SECTION 15 ASSEMBLY**

GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"Ø.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"Ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.



BOLT SCHEDULE		
MARK	SIZE	QTY
E4'	5/8" x 2" A325 BOLT ASSY + EXTRA FLATWASHER	48



4" x 4" x 3/8" TOP & BOTTOM LEG

SPLICE DETAIL #27


PART # 4.924.0001.027

KNOCK-DOWN SECTION #16 - KIT #5.94.0161.000

REV.	BY:	BY:	DESCRIPTION	DATE
	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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DRAWING NO. 000001.620.0061

CUSTOMER: SITE: SCALE: 25.000

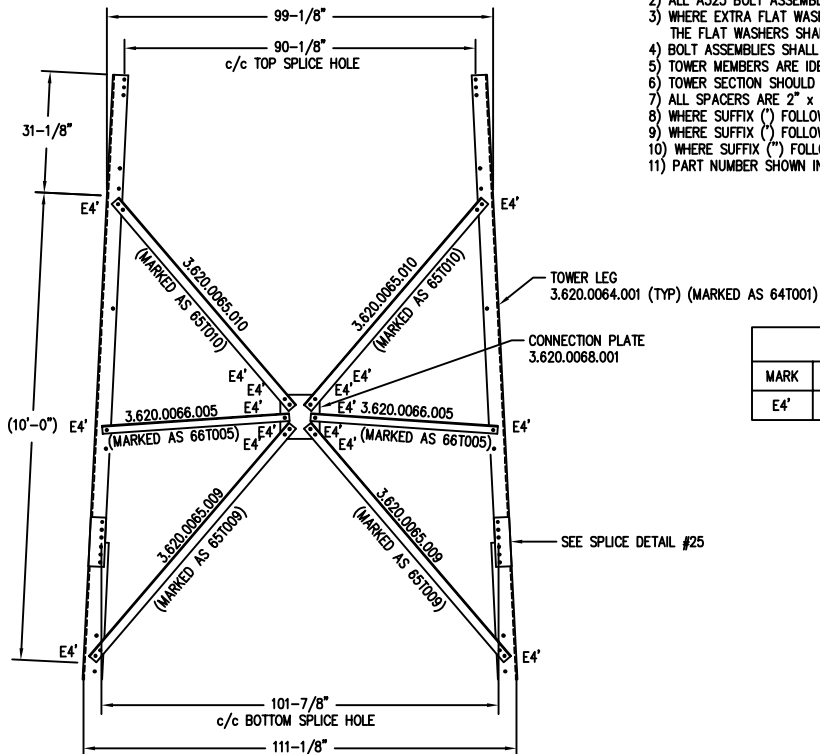
DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 16 ASSEMBLY

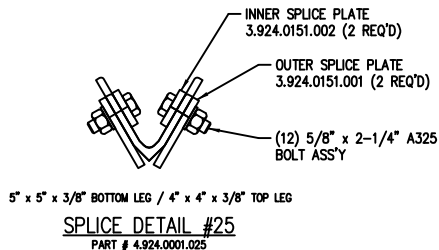
NOTES: **SECTION PROPERTIES**
 LEG: V 4" x 4" x 3/8" (50W)
 DIAGONAL: L 2" x 2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)

GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE I.E., LEVELLED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (') FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (V) FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"Ø.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"Ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.



BOLT SCHEDULE		
MARK	SIZE	QTY
E4'	5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER	48




KNOCK-DOWN SECTION #17 - KIT #5.94.0171.000

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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DRAWING NO. 000001.620.0062

CUSTOMER: SITE: SCALE: 25.000

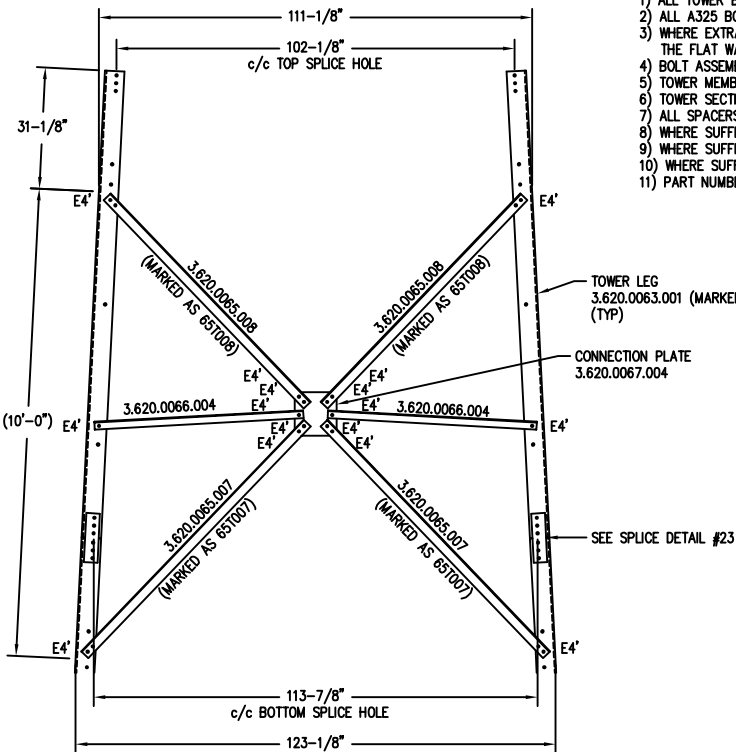
DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 17 ASSEMBLY

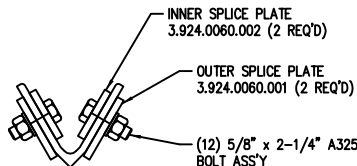
NOTES: SECTION PROPERTIES
 LEG: V 4" x 4" x 3/8" (50W)
 DIAGONAL: L 2-1/2" x 2-1/2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)

GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG BOLT SPUCE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (') FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"ø.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.



BOLT SCHEDULE		
MARK	SIZE	QTY
E4'	5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER	48



5" x 5" x 3/8" TOP & BOTTOM LEG

SPLICE DETAIL #23

PART # 4.924.0001.023

KNOCK-DOWN SECTION #18 - KIT #5.94.0181.000

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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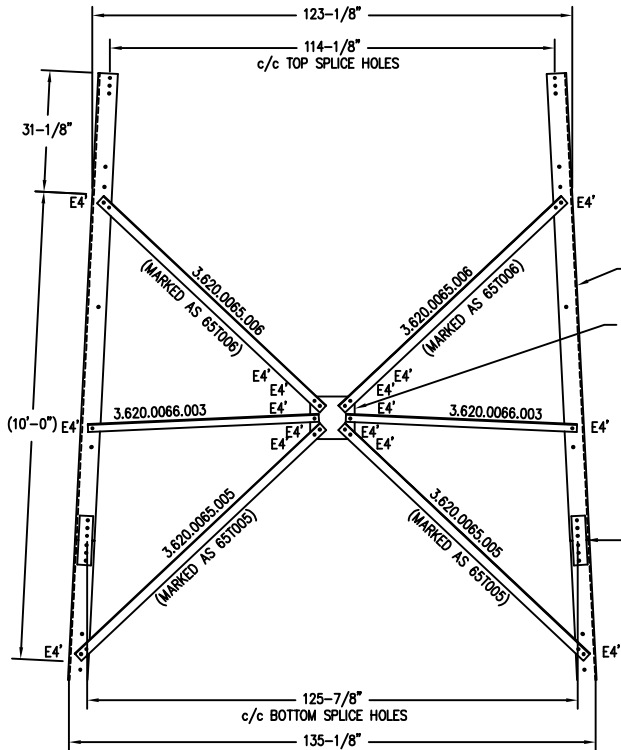
DRAWING NO. 000001.620.0063

CUSTOMER: SITE: SCALE: 25.000

DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 18 ASSEMBLY

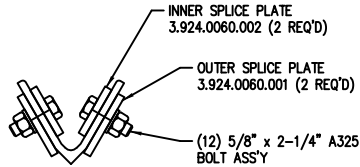
NOTES: **SECTION PROPERTIES**
 LEG: V 5" x 5" x 3/8" (50W)
 DIAGONAL: L 2-1/2" x 2-1/2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)



GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"φ.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"φ.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.

BOLT SCHEDULE		
MARK	SIZE	QTY
E4'	5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER	48




5" x 5" x 3/8" TOP & BOTTOM LEG
SPLICE DETAIL #23
 PART # 4.924.0001.023

KNOCK-DOWN SECTION #19 - KIT #5.94.0191.000

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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DRAWING NO. 000001.620.0064

CUSTOMER: SITE: SCALE: 25.000

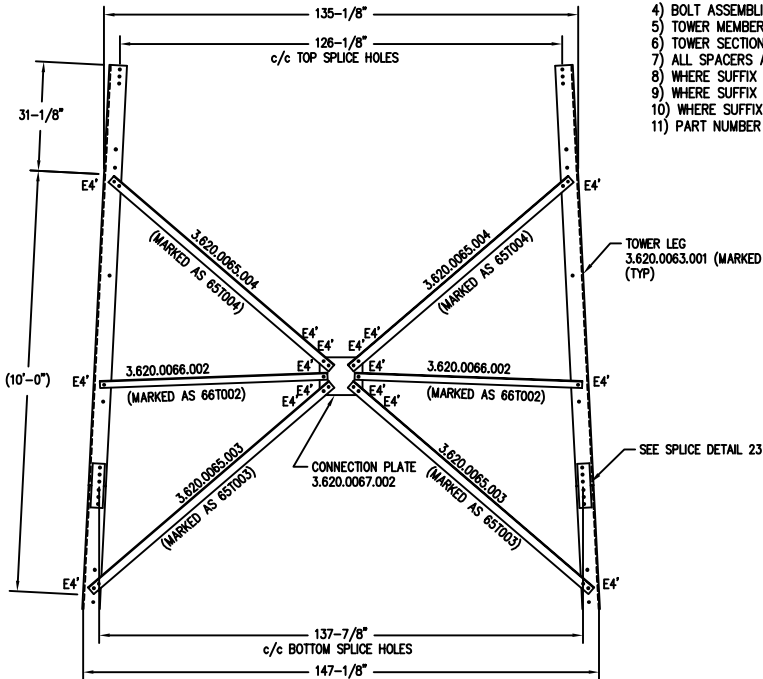
DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 19 ASSEMBLY

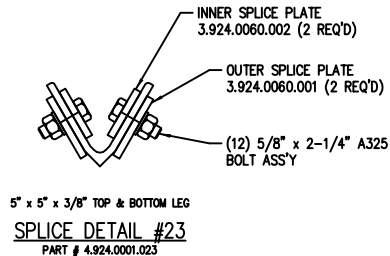
NOTES: SECTION PROPERTIES
 LEG: V 5" x 5" x 3/8" (50W)
 DIAGONAL: L 2-1/2" x 2-1/2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)

GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE I.E., LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"Ø.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"Ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.



BOLT SCHEDULE		
MARK	SIZE	QTY
E4'	5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER	48



KNOCK-DOWN SECTION #20 - KIT #5.94.0201.000

NOTES: SECTION PROPERTIES

- LEG: V 5" x 5" x 3/8" (50W)
- DIAGONAL: L 2-1/2" x 2-1/2" x 3/16" (44W)
- HORIZONTAL: L 2" x 2" x 3/16" (44W)

REV.	BY:	CHK.	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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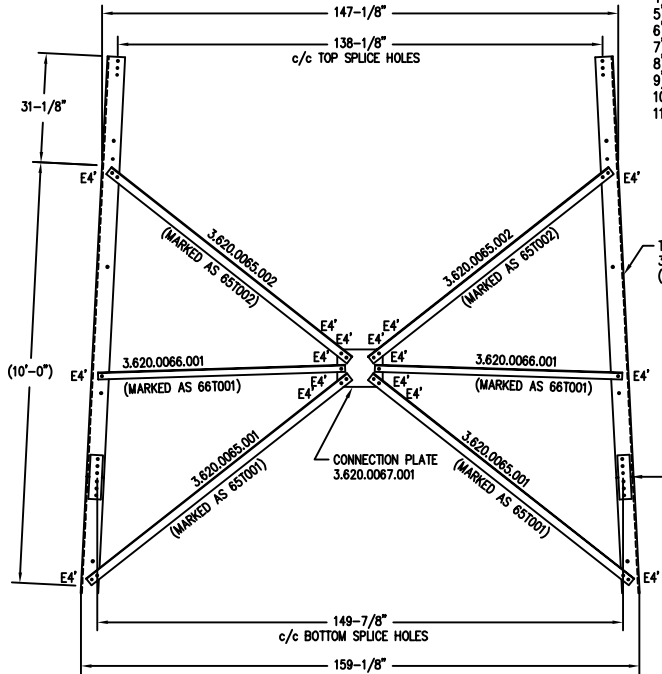
Trylon

DRAWING NO. 000001.620.0065

CUSTOMER: SITE: SCALE: 25.000

DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

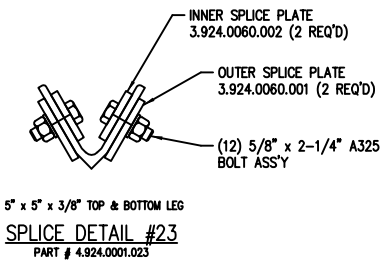
TITLE: SECTION 20 ASSEMBLY



GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE I.E.. LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"φ.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"φ.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.

BOLT SCHEDULE		
MARK	SIZE	QTY
E4'	5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER	48



KNOCK-DOWN SECTION #21 - KIT #5.94.0211.000

REV.	BY:	BY:	DESCRIPTION	DATE
	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0066

CUSTOMER: SITE: SCALE: 25.000

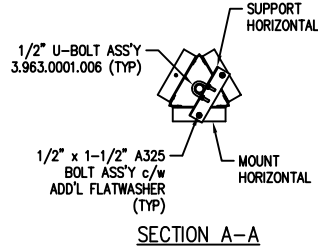
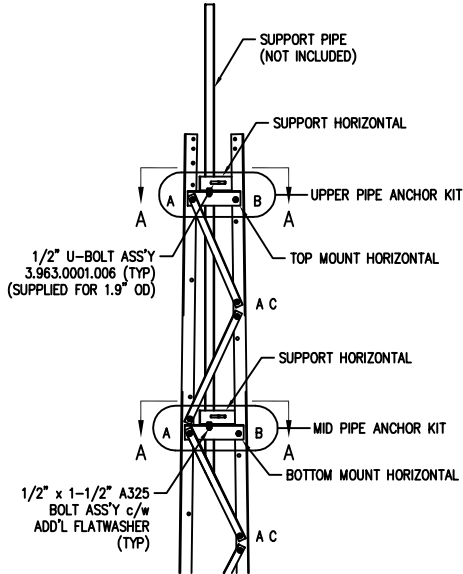
DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 21 ASSEMBLY

NOTES: SECTION PROPERTIES
 LEG: V 5" x 5" x 3/8" (50W)
 DIAGONAL: L 2-1/2" x 2-1/2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)

BOLT SCHEDULE (SECT. 1 TO 5)		
MARK	SIZE	QTY
A	1/2" x 1-1/2" A325	12
B	1/2" x 1-1/2" A325 + FLATWASHER	10
C	3/16"x2"x2" SPACER c/w 9/16"Ø HOLE	6

BOLT SCHEDULE (SECT. 6 TO 12)		
MARK	SIZE	QTY
A	1/2" x 1-3/4" A325 + FLATWASHER	12
B	1/2" x 1-1/2" A325	10
C	3/16"x2"x2" SPACER c/w 9/16"Ø HOLE	6



NOTE:
 SUPPORT HORIZONTAL IS DESIGNED
 TO ACCOMMODATE 1.9"OD THRU 4-1/2" OD
 SUPPORT PIPES.
 SUPPORT PIPES AND U-BOLTS SOLD SEPARATELY.

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0031

CUSTOMER: SITE: SCALE: 20,000

DATE: 11 APR 03 BY: CHK: APP:

TITLE: TOP MOUNT DETAILS


NOTES: 1) REFER TO DWG. 000001.620.0032 FOR KIT NUMBERS AND COMPONENT PART NUMBERS FOR THE SUPPORT HORIZONTAL AND MOUNT HORIZONTAL.
 2) THE SAME PART NUMBER IS UTILIZED FOR BOTH THE UPPER AND MID SUPPORT HORIZONTAL WITHIN EACH SECTION.

TOP MOUNT KITS

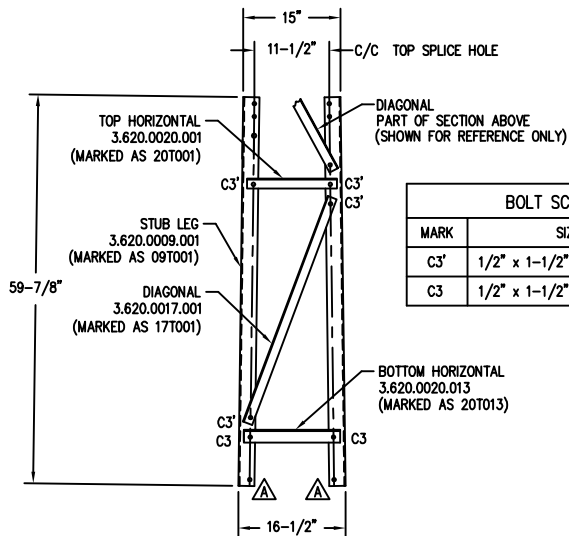
KIT NUMBER	SECTION NUMBER	DESCRIPTION	MOUNT HORIZONTAL	SUPPORT HORIZONTAL
4.83.0001.001	1	UPPER PIPE ANCHOR	3.620.0018.001	3.620.0019.001
4.83.0001.002	1	MID PIPE ANCHOR	3.620.0018.002	3.620.0019.001
4.83.0002.001	2	UPPER PIPE ANCHOR	3.620.0018.003	3.620.0019.003
4.83.0002.002	2	MID PIPE ANCHOR	3.620.0018.004	3.620.0019.003
4.83.0003.001	3	UPPER PIPE ANCHOR	3.620.0018.005	3.620.0019.005
4.83.0003.002	3	MID PIPE ANCHOR	3.620.0018.006	3.620.0019.005
4.83.0004.001	4	UPPER PIPE ANCHOR	3.620.0018.007	3.620.0019.007
4.83.0004.002	4	MID PIPE ANCHOR	3.620.0018.008	3.620.0019.007
4.83.0005.001	5	UPPER PIPE ANCHOR	3.620.0018.009	3.620.0019.009
4.83.0005.002	5	MID PIPE ANCHOR	3.620.0018.010	3.620.0019.009
4.83.0006.001	6	UPPER PIPE ANCHOR	3.620.0018.011	3.620.0019.011
4.83.0006.002	6	MID PIPE ANCHOR	3.620.0018.012	3.620.0019.011
4.83.0007.001	7	UPPER PIPE ANCHOR	3.620.0018.013	3.620.0019.013
4.83.0007.002	7	MID PIPE ANCHOR	3.620.0018.014	3.620.0019.013
4.83.0008.001	8	UPPER PIPE ANCHOR	3.620.0018.015	3.620.0019.015
4.83.0008.002	8	MID PIPE ANCHOR	3.620.0018.016	3.620.0019.015
4.83.0009.001	9	UPPER PIPE ANCHOR	3.620.0018.017	3.620.0019.016
4.83.0009.002	9	MID PIPE ANCHOR	3.620.0018.018	3.620.0019.016
4.83.0010.001	10	UPPER PIPE ANCHOR	3.620.0018.019	3.620.0019.017
4.83.0010.002	10	MID PIPE ANCHOR	3.620.0018.020	3.620.0019.017
4.83.0011.001	11	UPPER PIPE ANCHOR	3.620.0018.021	3.620.0019.018
4.83.0011.002	11	MID PIPE ANCHOR	3.620.0018.022	3.620.0019.018
4.83.0012.001	12	UPPER PIPE ANCHOR	3.620.0018.023	3.620.0019.019
4.83.0012.002	12	MID PIPE ANCHOR	3.620.0018.024	3.620.0019.019

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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DRAWING NO. 000001.620.0032		SCALE: 1.000
DATE: 23 APR 03	BY:	CHK:
TITLE: SUPERTITAN SS TOP MOUNT KITS		APP:

NOTES: 1) REFER TO DWG. 000001.620.0031 FOR INSTALLATION DETAILS.



BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
C3	1/2" x 1-1/2" A325	6


KNOCK-DOWN SECTION #2F – KIT #5.81.020.000

NOTES: LEG : 2-1/2" X 2-1/2" X 3/16" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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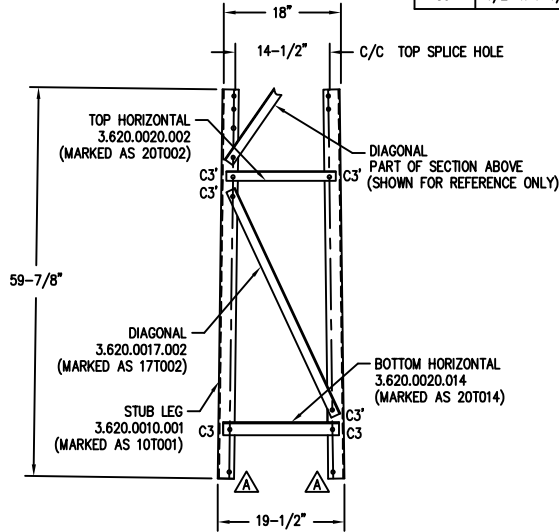
DRAWING NO. 000001.620.0014

CUSTOMER: SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 2F

BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
C3	1/2" x 1-1/2" A325	6



KNOCK-DOWN SECTION #3F - KIT #5.81.0203.000


NOTES: LEG : 2-1/2" X 2-1/2" X 3/16" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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 **Trylon**

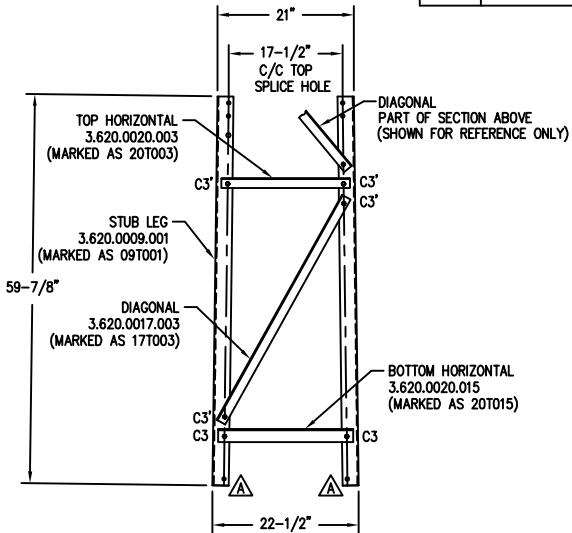
DRAWING NO. 000001.620.0015

CUSTOMER: SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 3F

BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
C3	1/2" x 1-1/2" A325	6



KNOCK-DOWN SECTION #4F - KIT #5.81.0204.000


NOTES: LEG : 2-1/2" X 2-1/2" X 3/16" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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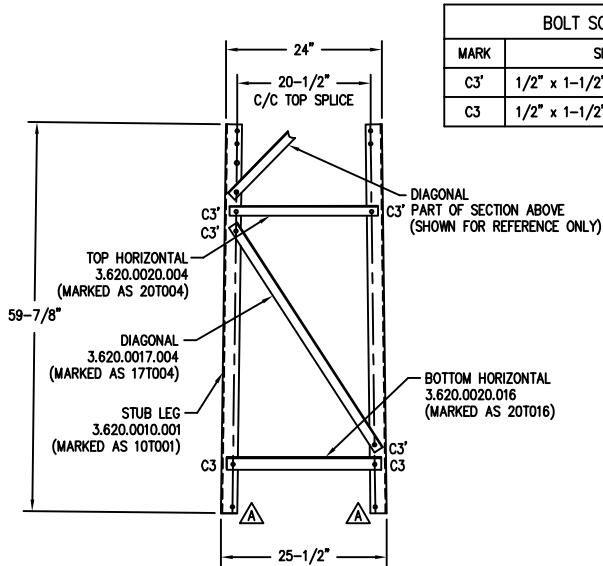


DRAWING NO. 000001.620.0016

CUSTOMER: SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 4F



BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
C3	1/2" x 1-1/2" A325	6


KNOCK-DOWN SECTION #5F - KIT #5.81.0205.000

NOTES: LEG : 2-1/2" X 2-1/2" X 3/16" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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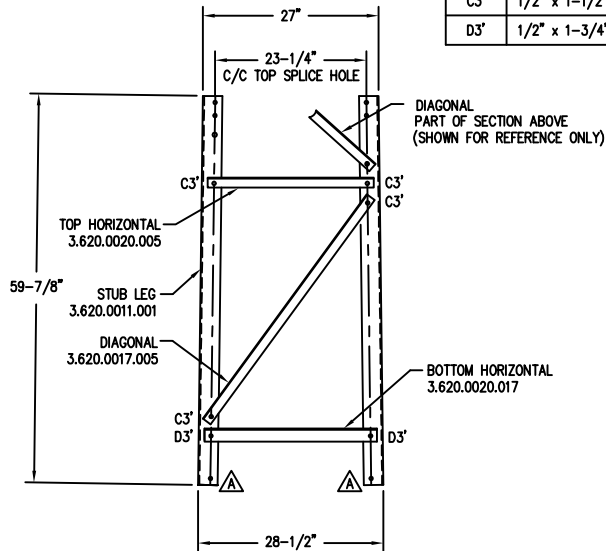


DRAWING NO. 000001.620.0017

CUSTOMER: SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 5F



BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
D3'	1/2" x 1-3/4" A325 + F/W	6


Knock-down Section #6F - Kit #5.81.0206.000

NOTES: LEG: 3" X 3" X 1/4" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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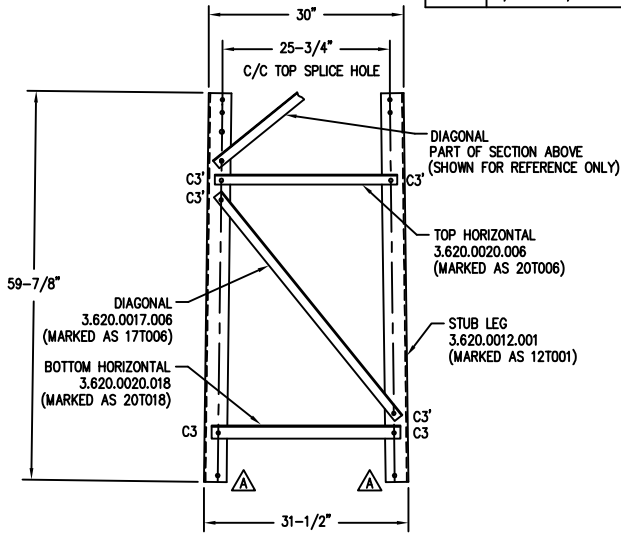
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CUSTOMER: SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 6F

BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
C3	1/2" x 1-1/2" A325	6



KNOCK-DOWN SECTION #7F - KIT #5.81.0207.000

NOTES: LEG : 3-1/2" X 3-1/2" X 1/4" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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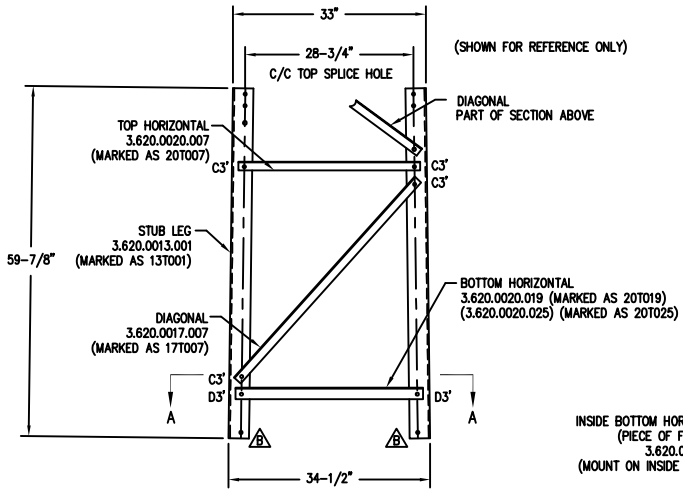
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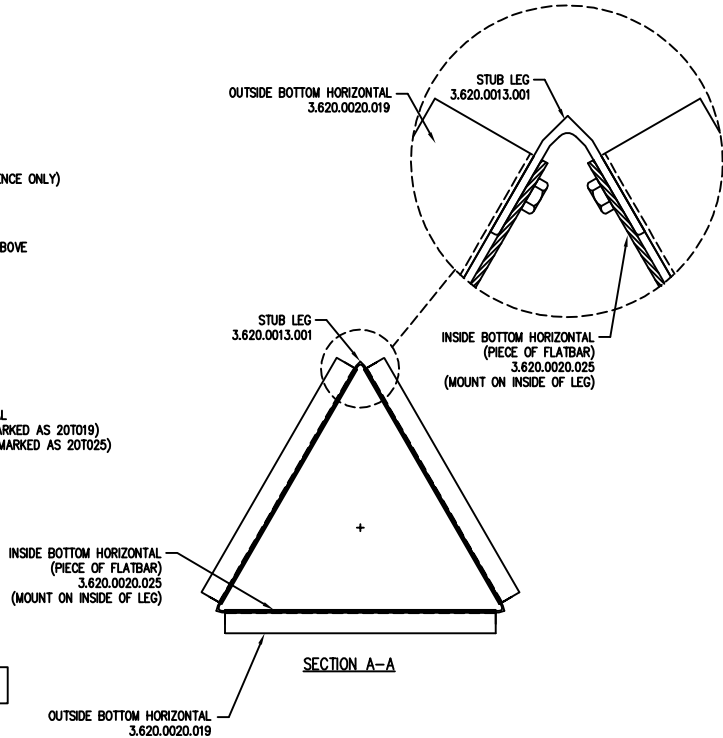
DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 7F

BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
D3'	1/2" x 1-3/4" A325 + F/W	6



KNOCK-DOWN SECTION #8F - KIT #5.81.0208.000




NOTES: LEG: 3-1/2" X3-1/2" X 1/4" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 OUTSIDE BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)
 INSIDE BOTTOM HORIZONTAL: 2" X 3/16" FLATBAR (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK:		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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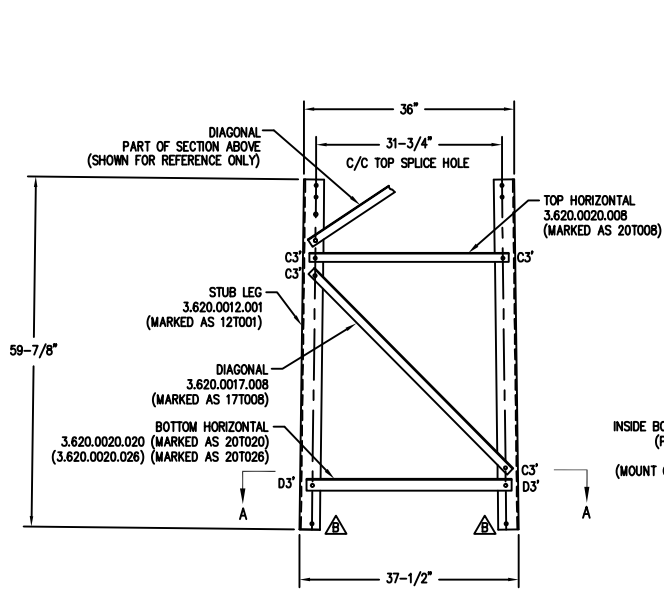
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CUSTOMER: SITE: SCALE: 15.000

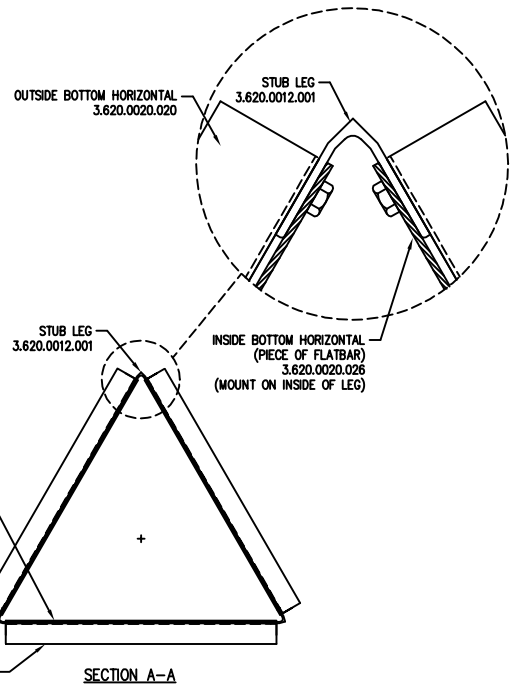
DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 8F

BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
D3'	1/2" x 1-3/4" A325 + F/W	6



KNOCK-DOWN SECTION #9F - KIT #5.81.0209.000



SECTION A-A

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0021

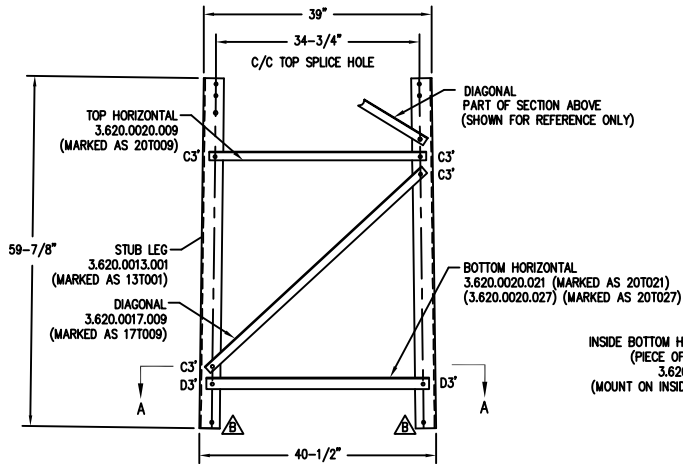
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DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

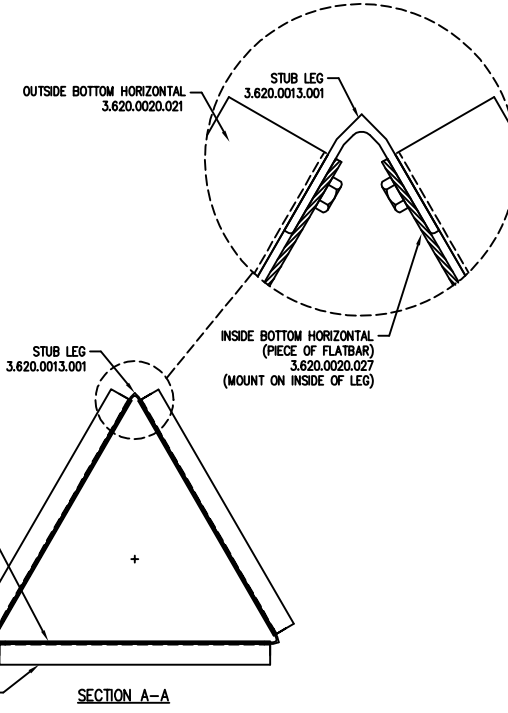
TITLE: ASSEMBLY OF FND SECTION 9F

NOTES: LEG : 3-1/2" X 3-1/2" X 1/4" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 OUTSIDE BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)
 INSIDE BOTTOM HORIZONTAL: 2" X 3/16" FLATBAR (44W)

BOLT SCHEDULE		
MARK	SIZE	QTY
C3*	1/2" x 1-1/2" A325 + F/W	12
D3*	1/2" x 1-3/4" A325 + F/W	6



KNOCK-DOWN SECTION #10F - KIT #5.81.0210.000




NOTES: LEG: 3-1/2" X 3-1/2" X 1/4" ANGLE (50W)
DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
OUTSIDE BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)
INSIDE BOTTOM HORIZONTAL: 2" X 3/16" FLATBAR (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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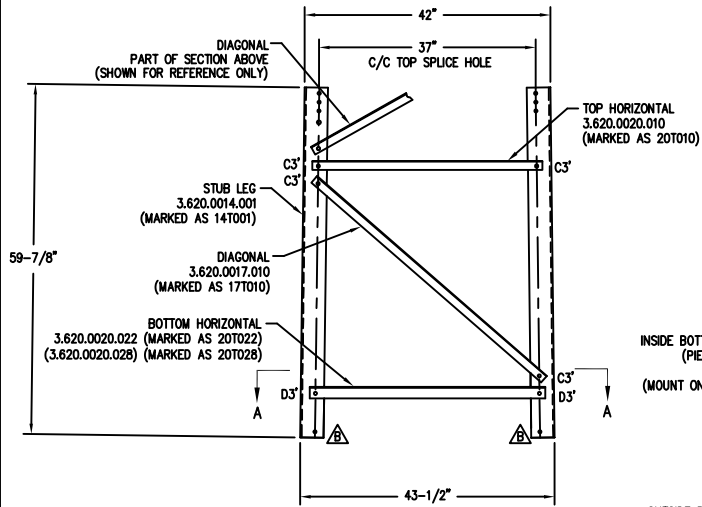
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CUSTOMER: SITE: SCALE: 15.000

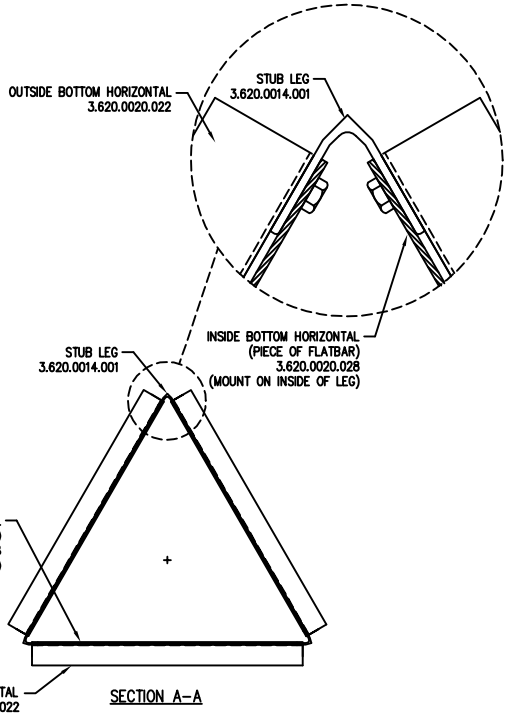
DATE: 23 JAN 03	BY: AL	CHK: MAW	APP: JB
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TITLE: ASSEMBLY OF FND SECTION 10F

BOLT SCHEDULE		
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
D3'	1/2" x 1-3/4" A325 + F/W	6



KNOCK-DOWN SECTION #11F - KIT #5.81.0211.000



NOTES: LEG : 4" X 4" X 1/4" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 OUTSIDE BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)
 INSIDE BOTTOM HORIZONTAL: 2" X 3/16" FLATBAR (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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Trylon

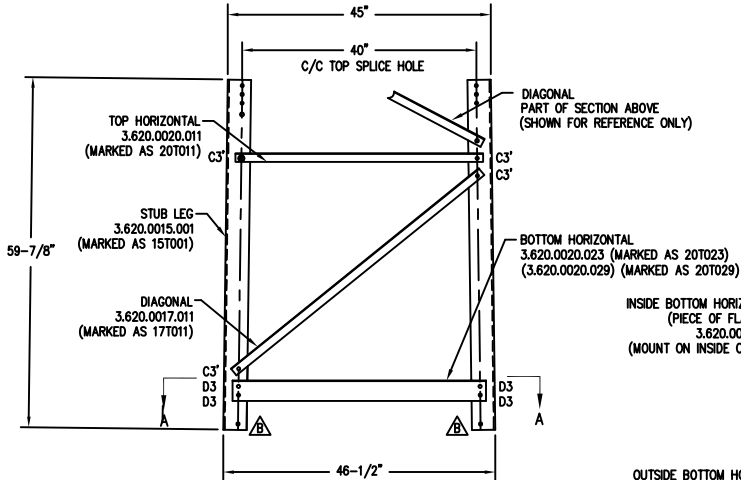
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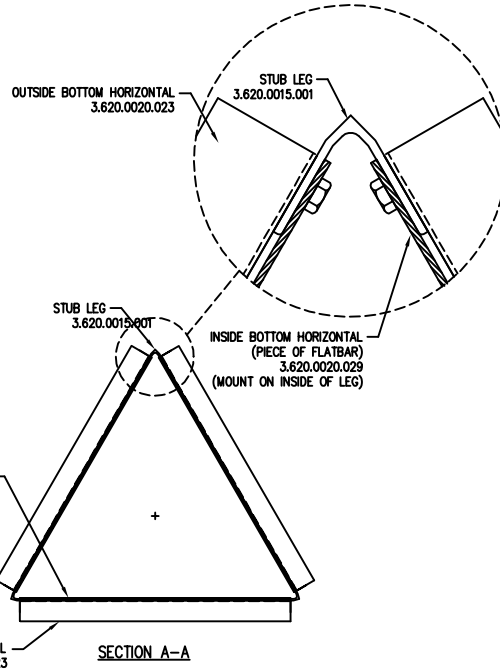
DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 11F

BOLT SCHEDULE		
MARK	SIZE	QTY
C3	1/2" x 1-1/2" A325 + F/W	12
D3	1/2" x 1-3/4" A325	12




KNOCK-DOWN SECTION #12F - KIT #5.81.0212.000



REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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DRAWING NO. 000001.620.0024

CUSTOMER: SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 12F

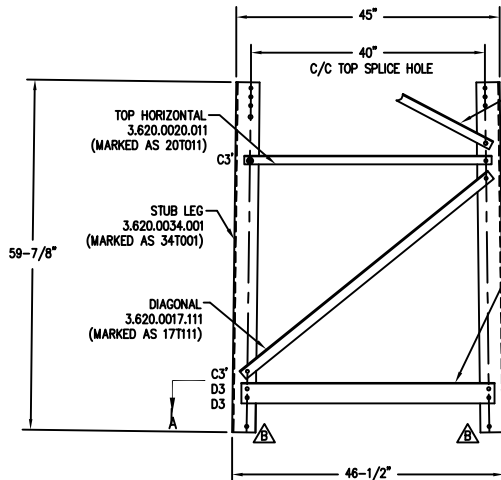
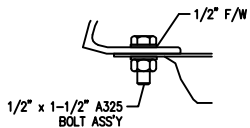
NOTES: LEG: 4" X4" X 1/4" ANGLE (50W)
DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
OUTSIDE BOTTOM HORIZONTAL: 3-1/2" X 3-1/2" X 1/4" ANGLE (44W)
INSIDE BOTTOM HORIZONTAL: 3-1/2" X 1/4" FLATBAR (44W)

BOLT SCHEDULE

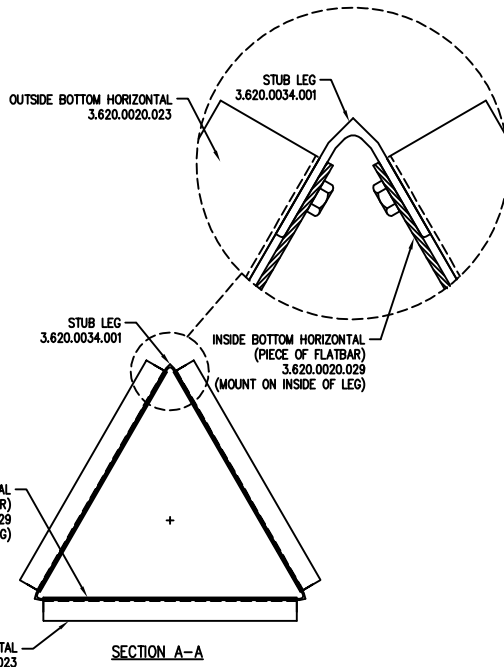
MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
D3	1/2" x 1-3/4" A325	12

ASSEMBLY OF FOUNDATION SECTION 12FHD

TOWER MEMBER CONN.



KNOCK-DOWN SECTION #12FHD - KIT #5.81.0212.OHD



REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

NOTES: LEG: 4" X4" X 5/16" ANGLE (50W)
 DIAGONAL: 1-3/4" X 1-3/4" X 1-1/2" X 3/16" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 OUTSIDE BOTTOM HORIZONTAL: 3-1/2" X 3-1/2" X 1/4" ANGLE (44W)
 INSIDE BOTTOM HORIZONTAL: 3-1/2" X 1/4" FLATBAR (44W)

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DRAWING NO.
000001.620.0028

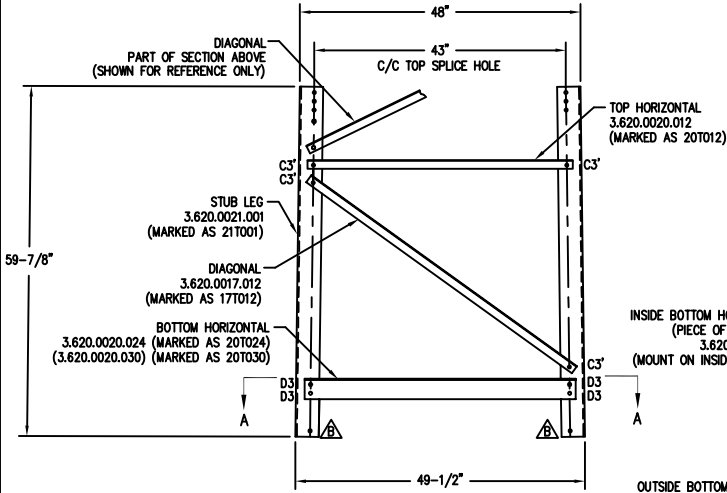
CUSTOMER: _____ **SITE:** _____ **SCALE:** 15,000

DATE: 01 JUN 05 **BY:** MRH **CHK:** JAG **APP:** JB

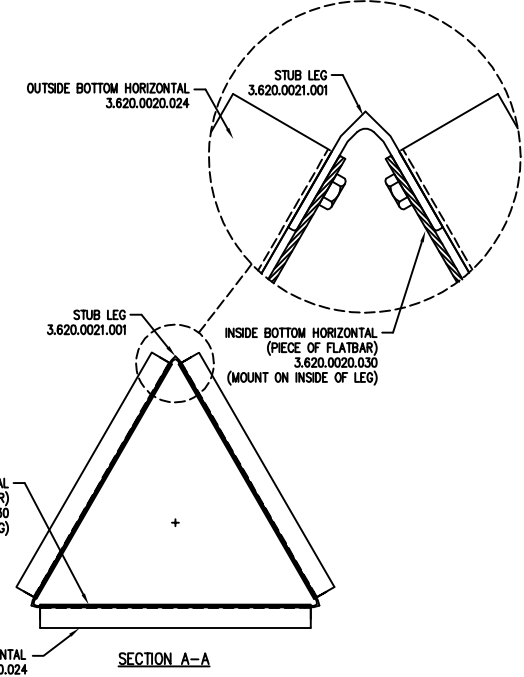
TITLE:
ASSEMBLY OF FND SECTION 12FHD

BOLT SCHEDULE

MARK	SIZE	QTY
C3'	1/2" x 1-1/2" A325 + F/W	12
D3	1/2" x 1-3/4" A325	12



KNOCK-DOWN SECTION #13F - KIT #5.81.0213.000



NOTES: LEG : 4" X 4" X 1/4" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 OUTSIDE BOTTOM HORIZONTAL: 3-1/2" X 3-1/2" X 1/4" ANGLE (44W)
 INSIDE BOTTOM HORIZONTAL: 3-1/2" X 1/4" FLATBAR (44W)

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0025

CUSTOMER: SITE: SCALE: 15,000

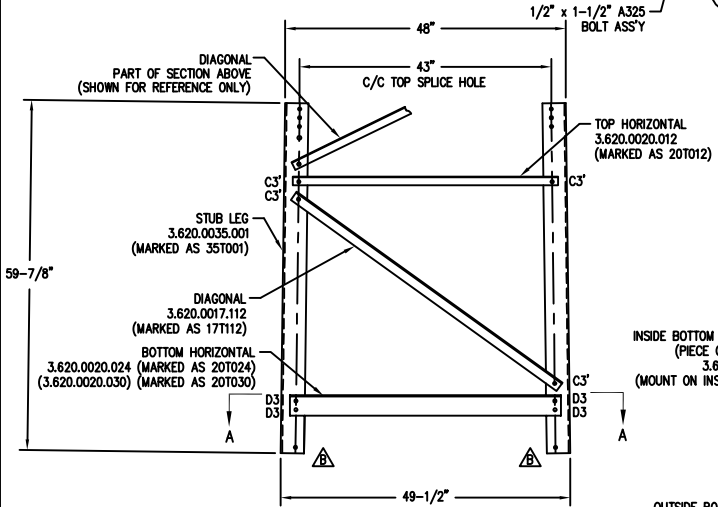
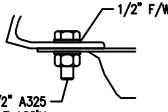
DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 13F

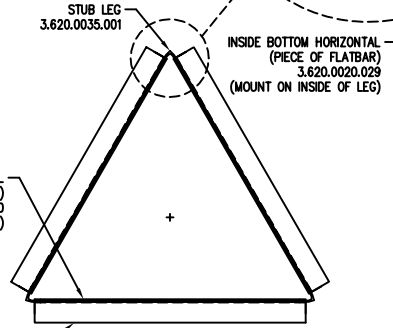
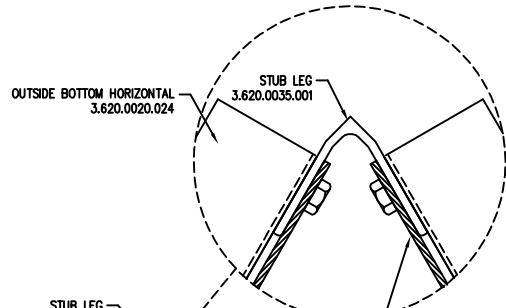
BOLT SCHEDULE		
MARK	SIZE	QTY
C3*	1/2" x 1-1/2" A325 + F/W	12
D3	1/2" x 1-3/4" A325	12

ASSEMBLY OF FOUNDATION SECTION 13FHD

TOWER MEMBER CONN.



KNOCK-DOWN SECTION #13FHD - KIT #5.81.0213.OHD



SECTION A-A

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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Trylon

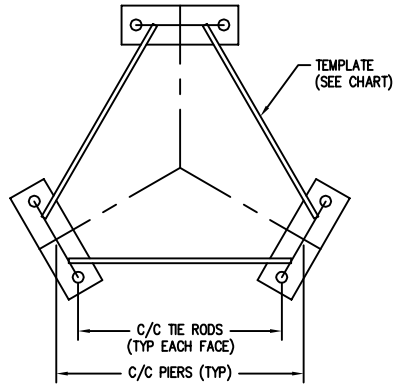
DRAWING NO. 000001.620.0029

CUSTOMER: SITE: SCALE: 15.000

DATE: 01 JUN 05 BY: MRH CHK: JAG APP: JB

TITLE: ASSEMBLY OF FND SECTION 13FHD

NOTES: LEG : 4" x 4" x 5/16" ANGLE (50W)
 DIAGONAL: 1-3/4" x 1-3/4" x 3/16" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 OUTSIDE BOTTOM HORIZONTAL: 3-1/2" x 3-1/2" x 1/4" ANGLE (44W)
 INSIDE BOTTOM HORIZONTAL: 3-1/2" x 1/4" FLATBAR (44W)



PART No.	SECTION No.	C/C PIERS	C/C TIE RODS
3.620.0031.001A	2F	13-3/4"	9-1/4"
3.620.0031.002A	3F	16-3/4"	12-1/4"
3.620.0031.003A	4F	19-3/4"	15-1/4"
3.620.0031.004A	5F	22-3/4"	18-1/4"
3.620.0031.005A	6F	25-3/8"	20-7/8"
3.620.0031.006A	7F	28-1/16"	23-9/16"
3.620.0031.007A	8F	31-1/16"	26-9/16"
3.620.0031.008A	9F	34-1/16"	29-9/16"
3.620.0031.009A	10F	37-1/16"	32-9/16"
3.620.0031.010A	11F	39-13/16"	35-5/16"
3.620.0031.011A	12F	42-13/16"	38-5/16"
3.620.0031.012A	13F	45-13/16"	41-5/16"

NOTES:

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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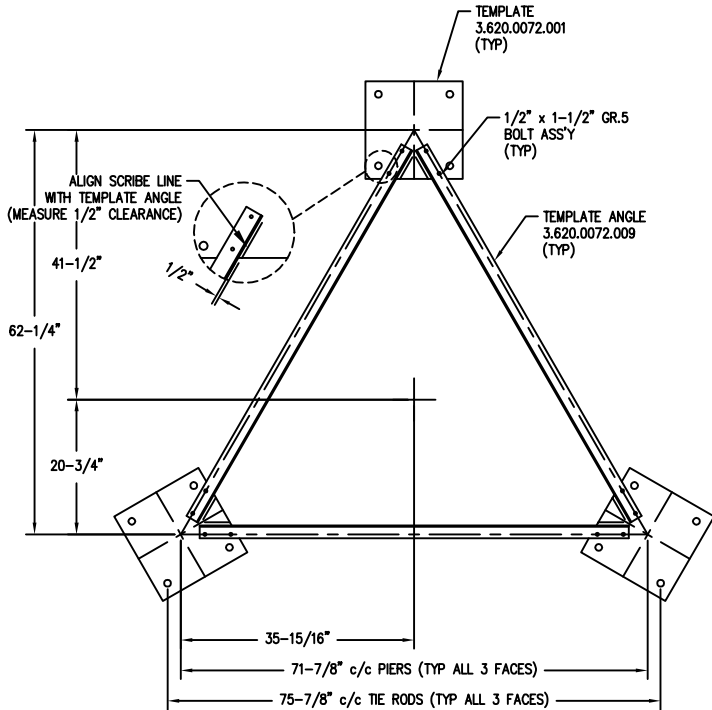
Trylon

DRAWING NO. 000001.620.0054

CUSTOMER: SITE: SCALE: 10.000

DATE: 21 OCT 03 BY: MAW CHK: MS APP: BZ

TITLE: BASE FEET TEMP. #2-#12HD



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.


KIT #4.79.0000.515

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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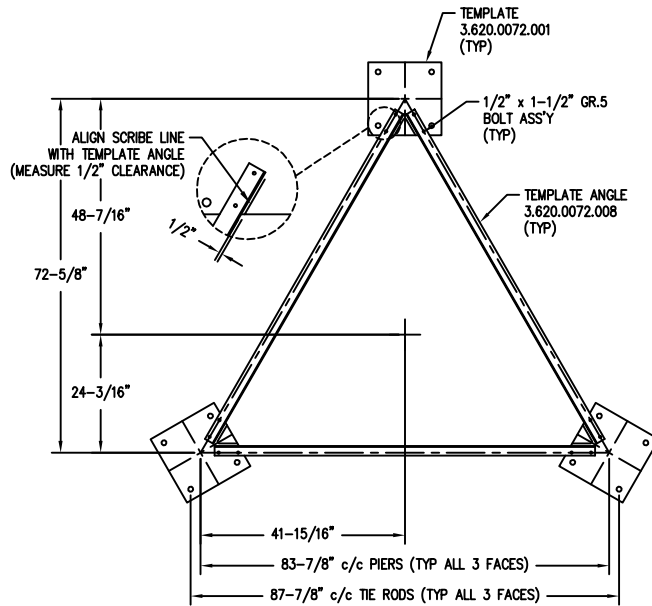


DRAWING NO. 000001.620.0102

CUSTOMER: SITE: SCALE: 15.000

DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 14 TEMPLATE



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.

KIT #4.79.0000.516

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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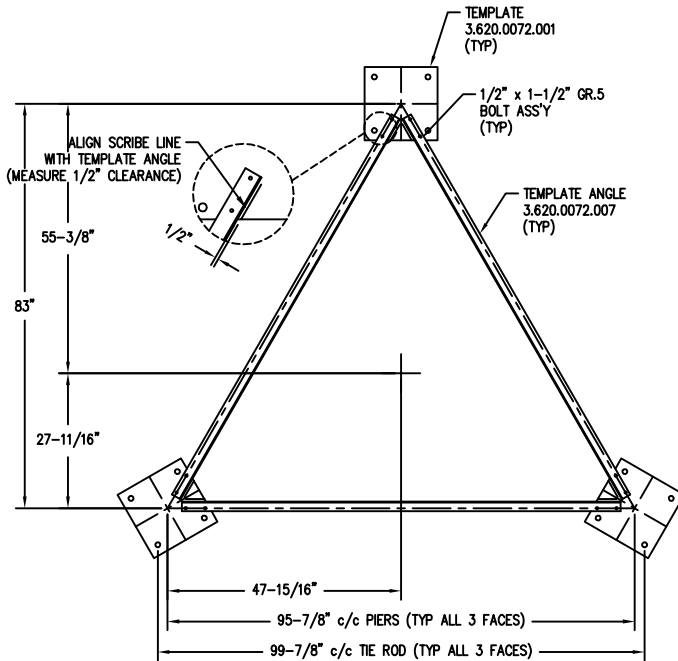
Trylon

DRAWING NO. 000001.620.0103

CUSTOMER: SITE: SCALE: 20.000

DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 15 TEMPLATE



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.


KIT #4.79.0000.517

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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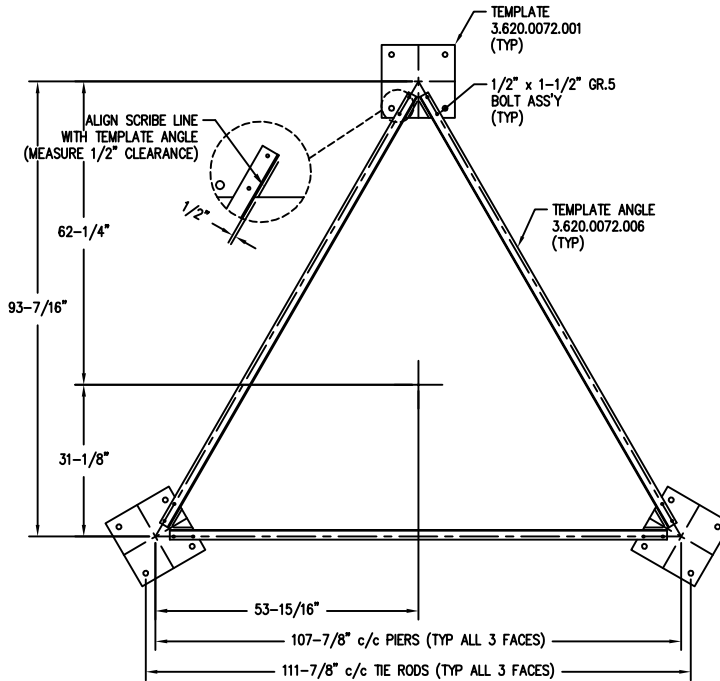


DRAWING NO. 000001.620.0104

CUSTOMER: SITE: SCALE: 20,000

DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 16 TEMPLATE



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.


KIT #4.79.0000.518

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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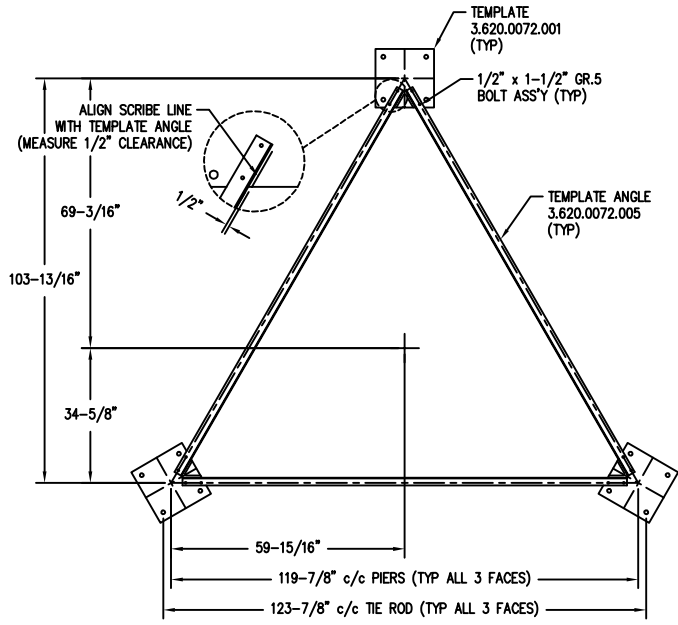
Trylon

DRAWING NO. 000001.620.0105

CUSTOMER: SITE: SCALE: 20,000

DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 17 TEMPLATE



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.


KIT #4.79.0000.519

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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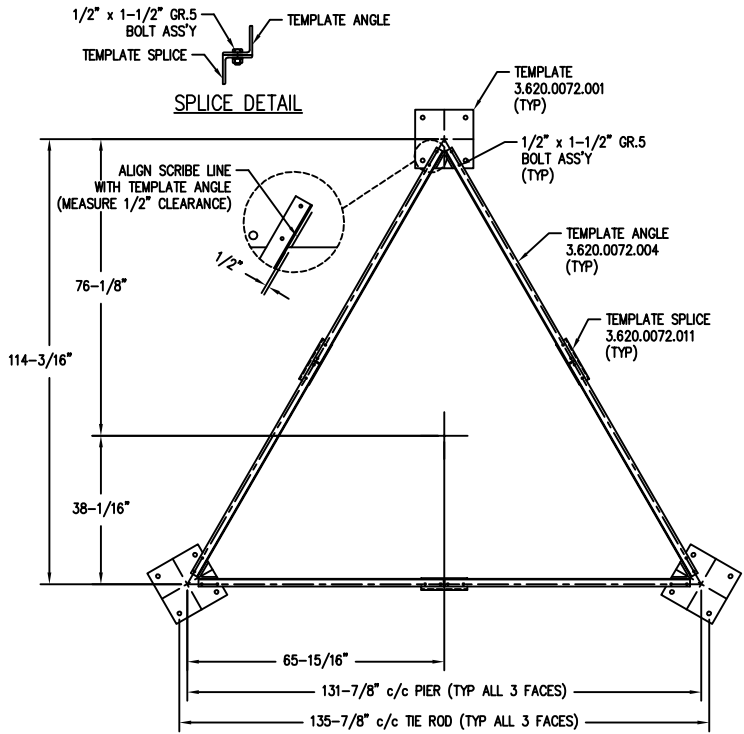


DRAWING NO. 000001.620.0106

CUSTOMER: SITE: SCALE: 25.000

DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 18 TEMPLATE



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.


KIT #4.79.0000.520

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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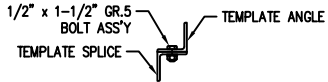


DRAWING NO. 000001.620.0107

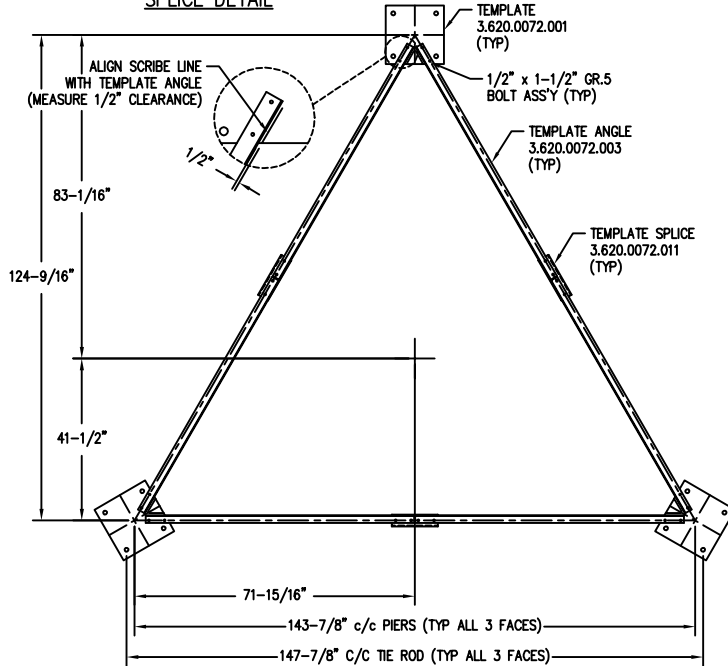
CUSTOMER: SITE: SCALE: 25.000

DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 19 TEMPLATE



SPLICE DETAIL




REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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DRAWING NO. 000001.620.0108

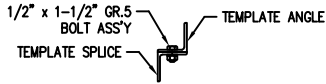
CUSTOMER: SITE: SCALE: 25,000

DATE: 12 NOV 04 BY: MAW CHK: APP:

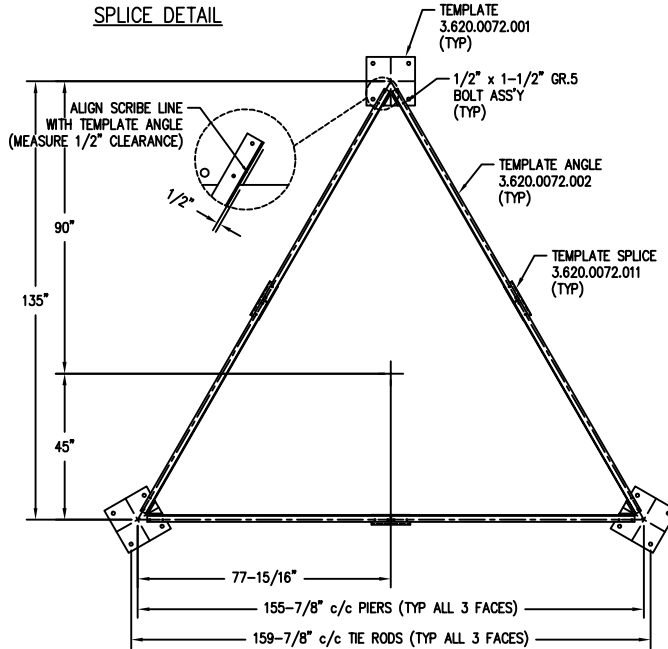
TITLE: SECTION 20 TEMPLATE

NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.

KIT #4.79.0000.521



SPLICE DETAIL



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.


KIT #4.79.0000.522

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

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DRAWING NO. 000001.620.0109

CUSTOMER: SITE: SCALE: 30,000

DATE: 09 NOV 04 BY: MAW CHK: APP:

TITLE: SECTION 21 TEMPLATE ASS'Y

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FOUNDATION NOTES:

GENERAL:

- 1) THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH THE WORK.
- 2) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF ACI STANDARDS.
- 3) FOUNDATIONS ARE DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 4) NORMAL DRY SOIL CONDITIONS ARE ASSUMED WITH AN ALLOWABLE BEARING CAPACITY OF 3500psf. THESE CONDITIONS SHOULD BE VERIFIED ON SITE BY A GEOTECHNICAL CONSULTANT WHEN THE BEARING SURFACE IS EXPOSED. NOTIFY ENGINEER IF SITE CONDITIONS DO NOT COMPLY WITH DESIGN CONDITIONS.
- 5) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.
- 6) ALL GALVANIZED STEEL IN CONTACT WITH SOIL IS TO BE COATED WITH ROOF PATCH.

CONCRETE:

- 1) CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF STANDARD ACI-318.
- 2) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 3600 psi.
- 3) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT. TOTAL AIR CONTENT TO BE 5% TO 7% FOR THE SIZE OF AGGREGATE BEING USED. THE AIR ENTRAINING AGENT SHALL BE COMPATIBLE WITH THE WATER REDUCING AGENT.
- 4) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4".
- 5) THE USE CALCIUM CHLORIDE OR ACCELERATING ADMIXTURES IS PROHIBITED.
- 6) SLUMP SHALL BE 3" ± 1".
- 7) IF THE AIR TEMPERATURE IS 41 DEGREES F OR LESS, THE TEMPERATURE OF THE CONCRETE AT TIME OF PLACING SHALL BE BETWEEN 59 AND 86 DEGREES F.
- 8) PROVIDE EFFECTIVE MEANS OF MAINTAINING THE TEMPERATURE OF CONCRETE IN PLACE AT A MINIMUM OF 50 DEGREES F AND A MAXIMUM OF 86 DEGREES F FOR THREE DAYS AFTER PLACING. WHEN THE MEAN DAILY AIR TEMPERATURE IS LESS THAN 41 DEGREES F PROVIDE PROTECTION FOR NEWLY PLACED CONCRETE BY MEANS OF SUITABLE ENCLOSURES OR RAISED COVERINGS, HEAT AND INSULATION.
- 9) CHAMFER EXPOSED CORNERS OF CONCRETE (APPROX. 3/4").

REINFORCEMENT:

- 1) CLEAN REINFORCEMENT OF ANY LOOSE SCALE, DIRT OR OTHER COATINGS WHICH WOULD DESTROY OR REDUCE BONDING. REJECT BARS WITH KINKS OR BENDS NOT SHOWN ON THE FOUNDATION DETAILS.
- 2) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 3" CONCRETE COVER.
- 3) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH ASTM A615 (GRADE 60).

BACKFILLING:

- 1) BACKFILL SHALL BE PLACED IN THIN LIFTS (MAXIMUM 6") AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT EXCAVATED MATERIALS ARE NOT SUITABLE FOR BACKFILL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND COMPACT SUITABLE CLEAN MATERIAL TO MEET THAT REQUIREMENT.

STANDARDS:


- 1) FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH EIA-222-F.
- 2) CONCRETE WORK SHALL BE ACCORDANCE WITH ACI 318.
- 3) REINFORCEMENT FOR CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318.

NOTES:1) THESE NOTES ARE TO BE USED WITH FOUNDATION DETAILS SHOWN ON DWG. 000001.620.0050.

REV.	BY: REV.	BY: CHK.	DESCRIPTION	DATE

REFERENCE DRAWINGS:

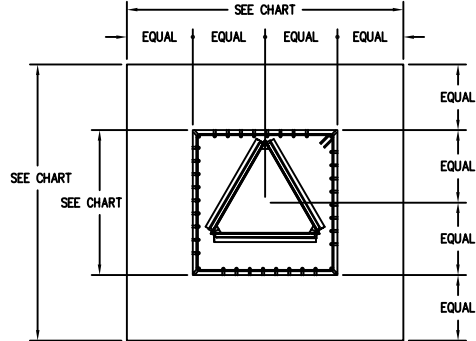
DRAWING NUMBER	DRAWING NUMBER

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		000001.620.0051	
CUSTOMER:	SITE:	SCALE:	
24 APR 03	MAW	BCP	1.000
DATE:	BY:	CHK:	APP:
TITLE:			
EIA FOUNDATION NOTES			

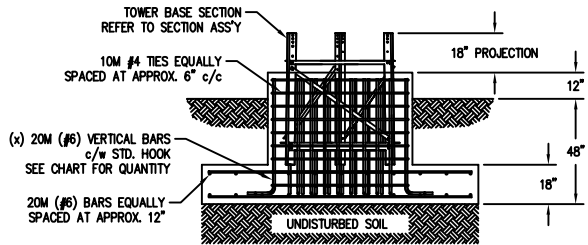
SUPER TITAN SS CONCRETE FOUNDATION – TOWERS WITH BOTTOM SECT #2-12HD

SINGLE PAD DESIGN WITH 1 PIER

(SHALLOW EXCAVATION DEPTH, (1) LARGE AREA)



IF BOTTOM TOWER SECTION IS:	FOUNDATION PAD SIZE (FT)	PIER SIZE (FT)	VERTICAL PIER BAR (X)	CUBIS YARDS CONCRETE		
				PAD CONCRETE VOLUME	PIER CONCRETE VOLUME	TOTAL VOLUME
#12 / 12HD	10'-6" x 10'-6"	5'-6" x 5'-6"	36	6.1	3.9	10.0
#11	10'-0" x 10'-0"	5'-6" x 5'-6"	36	5.6	3.9	9.5
#10	9'-6" x 9'-6"	5'-0" x 5'-0"	30	5.0	3.2	8.2
#9	9'-0" x 9'-0"	5'-0" x 5'-0"	30	4.5	3.2	7.7
#8	8'-6" x 8'-6"	4'-6" x 4'-6"	26	4.0	2.6	6.6
#7	7'-6" x 7'-6"	4'-6" x 4'-6"	26	3.1	2.6	5.7
#6	7'-0" x 7'-0"	4'-0" x 4'-0"	20	2.7	2.1	4.8
#5	6'-6" x 6'-6"	4'-0" x 4'-0"	20	2.4	2.1	4.5
#4	6'-6" x 6'-6"	4'-0" x 4'-0"	20	2.4	2.1	4.5
#3	6'-6" x 6'-6"	4'-0" x 4'-0"	20	2.4	2.1	4.5
#2	6'-0" x 6'-0"	4'-0" x 4'-0"	20	2.0	2.1	4.1




REV.	BY:	BY:	DESCRIPTION	DATE

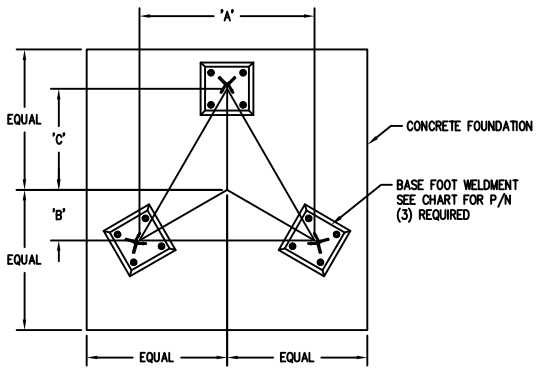
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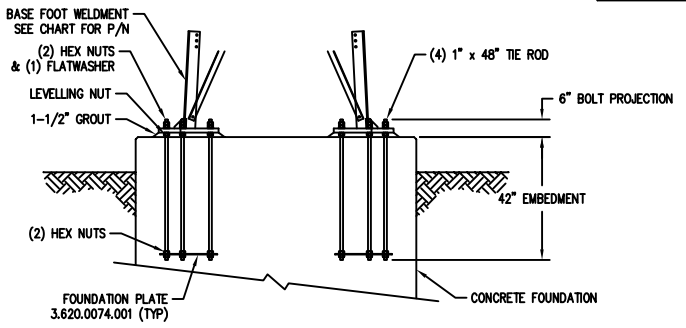
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 DRAWING NO. 000001.620.0050
 SITE: _____ SCALE: 40,000
 DATE: 28 MAR 08 BY: MRH CHK: _____ APP: _____
 TITLE: EIA – REGULAR FND – NDS

- NOTES:
- 1) BASED ON NORMAL DRY SOIL
 - 2) ALLOWABLE BEARING CAPACITY: 3500 psf
 - 3) DRY DENSITY OF BACKFILL MATERIAL: 100pcf (COMPACT TO 95% SPD)
 - 4) REBAR – DEFORMED BARS GRADE 60
 - 5) MINIMUM 28 DAY CONCRETE STRENGTH 3600 psi



KIT NUMBER w/ TIE RODS	KIT NUMBER w/o TIE RODS	FITS TOWER SECTION NUMBER	'a'	'b'	'c'	BASE FOOT WELDMENT P/N
4.79.0000.014	4.79.0000.314	13	59-7/8"	17-1/4"	34-9/16"	3.620.0062.001
4.79.0000.015	4.79.0000.315	14	71-7/8"	20-3/4"	41-1/2"	3.620.0062.001
4.79.0000.016	4.79.0000.316	15	83-7/8"	24-3/16"	48-7/16"	3.620.0062.001
4.79.0000.017	4.79.0000.317	16	95-7/8"	27-11/16"	55-3/8"	3.620.0062.001
4.79.0000.018	4.79.0000.318	17	107-7/8"	31-1/8"	62-1/4"	3.620.0062.001
4.79.0000.019	4.79.0000.319	18	119-7/8"	34-5/8"	69-3/16"	3.620.0061.001
4.79.0000.020	4.79.0000.320	19	131-7/8"	38-1/16"	76-1/8"	3.620.0061.001
4.79.0000.021	4.79.0000.321	20	143-7/8"	41-1/2"	83-1/16"	3.620.0061.001
4.79.0000.022	4.79.0000.322	21	155-7/8"	45"	90"	3.620.0061.001



REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0067

CUSTOMER: SITE: SCALE: 30,000

DATE: 10 JUN 04 BY: CHK: APP:

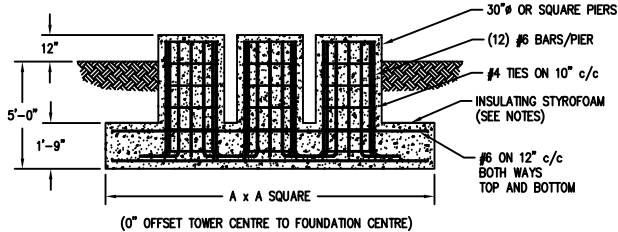
TITLE: TIE ROD ANCHOR INSTALLATION

NOTES: 1) USE TEMPLATE PROVIDED TO PROPERLY POSITION TIE RODS.
 2) FOUNDATIONS MUST BE DESIGNED FOR SITE SPECIFIC SOIL CONDITIONS.

SUPER TITAN SS CONCRETE FOUNDATION – TOWERS WITH BOTTOM SECT #14–21

SINGLE PAD DESIGN WITH 3 PIERS

(SHALLOW EXCAVATION DEPTH, (1) LARGE AREA, FROST CONSIDERATIONS)



FOUNDATION NOTES:

GENERAL:

- 1) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL STANDARDS.
- 2) FOUNDATIONS DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 3) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.

CONCRETE:

- 1) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 4000 psi.
- 2) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT.
- 3) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4in.
- 4) SLUMP SHALL BE 3in +/- 1in.
- 5) ALL GROUT SHALL BE NON-FERROUS AND NON SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 psi AT 28 DAYS, EDGES GROUT SHALL BE TAPERED OFF AT 45°.

REINFORCEMENT:

- 1) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 3in CONCRETE COVER.
- 2) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH A MINIMUM YIELD OF 60 ksi.

BACKFILLING:

- 1) BACKFILL SHALL BE PLACED IN THIN LIFTS (MAXIMUM 6 INCHES) AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT EXCAVATED MATERIALS ARE NOT SUITABLE FOR BACKFILL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND COMPACT SUITABLE CLEAN MATERIAL TO MEET THAT REQUIREMENT.

INSULATION:

- 1) WHERE FROST PENETRATION DEPTHS EXCEED 6ft PLACE INSULATING STYROFOAM ON SLAB EXTENDING 3ft PAST THE EDGE OF THE SLAB. HIGHLOAD 40 INSULATION BY DOW CHEMICALS IS RECOMMENDED.


TOWER SECTION BOTTOM	A	CUBIC YARDS of CONCRETE					OVERTURNING MOMENT (KIPSFT)	SHEAR (KIPS)	AXIAL (KIPS)
		PAD	RND PIER	SQ PIER	TOTAL RND	TOTAL SQ			
#14	12'-6"	10.13	0.77	0.98	12.45	13.08	209.39	6.47	4.72
#15	13'-6"	11.81	0.77	0.98	14.13	14.76	260.37	7.81	5.46
#16	14'-0"	12.70	0.77	0.98	15.02	15.66	375.16	9.49	6.38
#17	14'-6"	13.63	0.77	0.98	15.95	16.58	350.72	9.17	6.71
#18	15'-0"	14.58	0.77	0.98	16.90	17.53	459.57	10.67	7.99
#19	16'-0"	16.59	0.77	0.98	18.91	19.54	580.67	12.19	9.25
#20	17'-0"	18.73	0.77	0.98	21.05	21.68	735.27	13.96	10.60
#21	18'-0"	21.00	0.77	0.98	23.32	23.95	885.16	15.54	11.91

- NOTES: 1) THEORETICAL CONCRETE VOLUMES GIVEN. ADD 10% TO THAT GIVEN WHEN ORDERING THE CONCRETE.
 2) BEFORE POURING CONCRETE, PLACE THE FOUNDATION TEMPLATE TO ENSURE FIT BETWEEN TEMPLATE AND PIERS.
 3) IF CONCRETE SAVINGS ARE DESIRED, PLEASE SEE OUR PAD AND PIER DESIGN ON DRAWING 1.620.0121.

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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 **Trylon**

DRAWING NO. 000001.620.0120

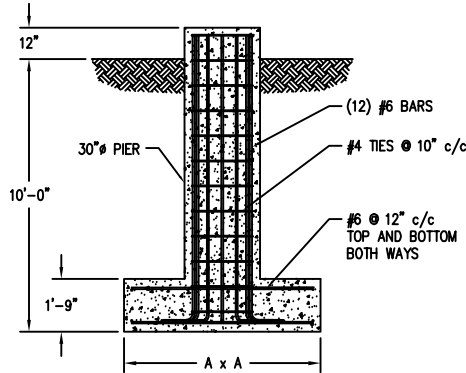
CUSTOMER: SITE: SCALE: 40,000

DATE: 28 MAR 08 BY: MRH CHK: APP:

TITLE: EIA SINGLE PAD 3 PIER NDS

SUPERTITAN S.S. FOUNDATION DESIGN – BASE SECTION #18 to #21

(PAD AND PIER; DEEP EXCAVATION DEPTH, (3) SMALL AREAS, NO FROST CONSIDERATIONS)



FOUNDATION NOTES:

GENERAL:

- 1) ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL STANDARDS.
- 2) FOUNDATIONS DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 3) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.

CONCRETE:

- 1) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 4000 psi.
- 2) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT.
- 3) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4 in. SLUMP SHALL BE 3 in +/- 1 in
- 4) ALL GROUT SHALL BE NON-FERROUS AND NON SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 psi AT 28 DAYS, EDGES GROUT SHALL BE TAPERED OFF AT 45°.

REINFORCEMENT:

- 1) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 3 in CONCRETE COVER.
- 2) REINFORCING STEEL SHALL BE DEFORMED BARS WITH A MINIMUM YIELD OF 60 ksi.

BACKFILLING:

- 1) BACKFILL SHALL BE PLACED IN THIN LIFTS (MAXIMUM 6 INCHES) AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT EXCAVATED MATERIALS ARE NOT SUITABLE FOR BACKFILL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND COMPACT SUITABLE CLEAN MATERIAL TO MEET THAT REQUIREMENT.


REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

TOWER SECTION BOTTOM	A	CUBIC YARDS of CONCRETE (EACH)					OVERTURNING MOMENT (KIPSFT)	SHEAR (KIPS)	AXIAL (KIPS)
		PAD	RND PIER	SQ PIER	TOTAL RND	TOTAL SQ			
#14	-	-	-	-	-	-	-	-	
#15	-	-	-	-	-	-	-	-	
#16	-	-	-	-	-	-	-	-	
#17	-	-	-	-	-	-	-	-	
#18	7'-0"	3.18	1.68	2.14	4.68	5.32	459.57	10.67	7.99
#19	7'-6"	3.65	1.68	2.14	5.33	5.79	580.67	12.19	9.25
#20	8'-0"	4.15	1.68	2.14	5.83	6.29	735.27	13.96	10.60
#21	8'-6"	4.68	1.68	2.14	6.36	6.82	885.16	15.54	11.91

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DRAWING NO. 000001.620.0126

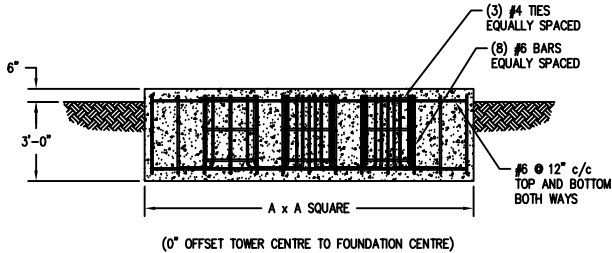
CUSTOMER: SITE: SCALE: NTS

DATE: 28 MAR 08 BY: MRH CHK: APP:

TITLE: EIA PAD & PIER – NDS

- NOTES:
- 1) "-" THIS OPTION IS N/A IN TOWERS WITH SMALL FACE WIDTHS
 - 2) THEORETICAL CONCRETE VOLUMES GIVEN. ADD 10% TO THAT GIVEN WHEN ORDERING THE CONCRETE.
 - 3) BEFORE POURING CONCRETE, PLACE THE FOUNDATION TEMPLATE TO ENSURE FIT BETWEEN TEMPLATE AND PIERS.
 - 4) IF A SINGLE POUR WITH A BIG BLOCK OF CONCRETE IS DESIRED, SEE OUR DRAWING 01.620.0122. THAT DESIGN REQUIRES THAT NO FROST PENETRATION OCCURS.
 - 5) ANOTHER ALTERNATE DESIGN SEE DWG 01.620.0120 (RAFT DESIGN)

SUPERTITAN S.S. FOUNDATION DESIGN – BASE SECTION #14 to #21
 (SURFACE RAFT; SHALLOW EXCAVATION DEPTH, (1) LARGE AREA, NO FROST PENETRATION REQUIRED)



FOUNDATION NOTES:

GENERAL:

- 1) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL STANDARDS.
- 2) FOUNDATIONS DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 3) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.

CONCRETE:

- 1) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 4000 psi.
- 2) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT.
- 3) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4in.
- 4) SLUMP SHALL BE 3in +/- 1in.
- 5) ALL GROUT SHALL BE NON-FERROUS AND NON SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 psi AT 28 DAYS, EDGES GROUT SHALL BE TAPERED OFF AT 45°.

REINFORCEMENT:

- 1) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 3in CONCRETE COVER.
- 2) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH A MINIMUM YIELD OF 60 ksi.
- 3) HORIZONTAL TIES MAY BE 40 ksi.

REV.	BY: REV.	BY: CHK.	DESCRIPTION	DATE


REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

THIS FOUNDATION IS NOT SUITABLE FOWHERE GROUND FROST PENETRATION IS EXPECTED.

TOWER SECTION BOTTOM	A	CUBIC YARDS of CONCRETE	OVERTURNING MOMENT (KIPSFT)	SHEAR (KIPS)	AXIAL (KIPS)
		TOTAL			
#14	12'-6"	20.25	209.39	6.47	4.72
#15	13'-6"	23.63	260.37	7.81	5.46
#16	14'-0"	25.41	375.16	9.49	6.38
#17	14'-6"	27.25	350.72	9.17	6.71
#18	15'-0"	29.17	459.57	10.67	7.99
#19	16'-0"	33.19	580.67	12.19	9.25
#20	17'-0"	37.46	735.27	13.96	10.60
#21	18'-0"	42.00	885.16	15.54	11.91

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DRAWING NO. 000001.620.0124

CUSTOMER: SITE: SCALE: 40,000

DATE: 28 MAR 08 BY: MRH CHK: APP:

TITLE: EIA SURFACE RAFT NDS

- NOTES: 1) THEORETICAL CONCRETE VOLUME GIVEN. ADD 10% TO THAT GIVEN WHEN ORDERING THE CONCRETE.
 2) BEFORE POURING CONCRETE, PLACE THE FOUNDATION TEMPLATE TO ENSURE FIT BETWEEN TEMPLATE c/c OF BASE ANCHORS.
 3) IF FROST PENETRATION OCCURS, AND CONCRETE SAVINGS ARE DESIRED SEE DRAWINGS 01.620.0120, AND/OR 01.620.0122.

FOUNDATION NOTES:

GENERAL:

- 1) THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH THE WORK.
- 2) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF CSA STANDARDS.
- 3) FOUNDATIONS ARE DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 4) NORMAL DRY SOIL CONDITIONS ARE ASSUMED WITH AN ALLOWABLE BEARING CAPACITY OF 150 KP_a. THESE CONDITIONS SHOULD BE VERIFIED ON SITE BY A GEOTECHNICAL CONSULTANT WHEN THE BEARING SURFACE IS EXPOSED. NOTIFY ENGINEER IF SITE CONDITIONS DO NOT COMPLY WITH DESIGN CONDITIONS.
- 5) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.
- 6) ALL GALVANIZED STEEL IN CONTACT WITH SOIL IS TO BE COATED WITH ROOF PATCH.

CONCRETE:

- 1) CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD CAN3-A23.3.
- 2) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 25 MP_a.
- 3) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT. TOTAL AIR CONTENT TO BE 5% TO 7% FOR THE SIZE OF AGGREGATE BEING USED. THE AIR ENTRAINING AGENT SHALL BE COMPATIBLE WITH THE WATER REDUCING AGENT.
- 4) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 19mm.
- 5) THE USE CALCIUM CHLORIDE OR ACCELERATING ADMIXTURES IS PROHIBITED.
- 6) SLUMP SHALL BE 76mm ± 25mm.
- 7) IF THE AIR TEMPERATURE IS 5 DEGREES C OR LESS, THE TEMPERATURE OF THE CONCRETE AT TIME OF PLACING SHALL BE BETWEEN 15 AND 30 DEGREES C.
- 8) PROVIDE EFFECTIVE MEANS OF MAINTAINING THE TEMPERATURE OF CONCRETE IN PLACE AT A MINIMUM OF 10 DEGREES C AND A MAXIMUM OF 30 DEGREES C FOR THREE DAYS AFTER PLACING. WHEN THE MEAN DAILY AIR TEMPERATURE IS LESS THAN 5 DEGREES C PROVIDE PROTECTION FOR NEWLY PLACED CONCRETE BY MEANS OF SUITABLE ENCLOSURES OR RAISED COVERINGS, HEAT AND INSULATION.
- 9) CHAMFER EXPOSED CORNERS OF CONCRETE (APPROX. 19mm).

REINFORCEMENT:

- 1) CLEAN REINFORCEMENT OF ANY LOOSE SCALE, DIRT OR OTHER COATINGS WHICH WOULD DESTROY OR REDUCE BONDING. REJECT BARS WITH KINKS OR BENDS NOT SHOWN ON THE FOUNDATION DETAILS.
- 2) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 76mm CONCRETE COVER.
- 3) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH CSA STANDARD G30.18 (GRADE 600).

BACKFILLING:

- 1) BACKFILL SHALL BE PLACED IN THIN LIFTS (MAXIMUM 150mm) AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT EXCAVATED MATERIALS ARE NOT SUITABLE FOR BACKFILL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND COMPACT SUITABLE CLEAN MATERIAL TO MEET THAT REQUIREMENT.


STANDARDS:

- 1) FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH CAN/CSA-S37-01.
- 2) CONCRETE WORK SHALL BE ACCORDANCE WITH CAN3-A23.3.
- 3) REINFORCEMENT FOR CONCRETE SHALL BE IN ACCORDANCE WITH CAN3-A23.1.

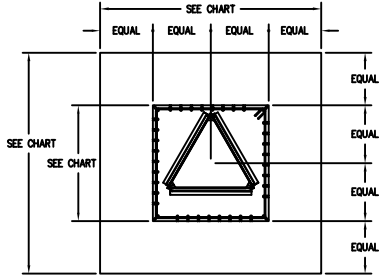
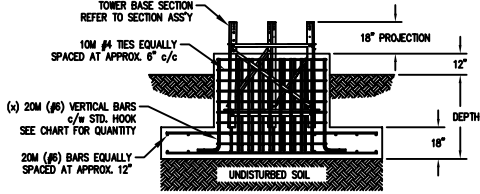
REV.	BY: REV.	BY: CHK.	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

NOTES:1) THESE NOTES ARE TO BE USED WITH FOUNDATION DETAILS SHOWN ON DWG. 000001.620.0052.

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DRAWING NO. 000001.620.0053		
CUSTOMER:	SITE:	SCALE: 1.000
DATE: 24 APR 03	BY: MAW	CHK: APP:
TITLE: CSA FOUNDATION NOTES		

SUPER TITAN SS CSA FOUNDATION DESIGN - BASE SECTION #2 - #12HD



USE WHEN FROST DEPTH IS LESS THAN OR EQUAL TO 4'-0"						CUBIC YARDS OF CONCRETE		
TOWER BASE WIDTH	PAD WIDTH	PIER SIZE	DEPTH	VERT. PIER BAR QTY.	PAD CONC VOL.	PIER CONC VOL.	TOTAL VOL.	
#12 / #12HD	11'-6" x 11'-6"	5'-6" x 5'-6"	4'-0"	36	7.4	3.9	11.3	
#11	10'-6" x 10'-6"	5'-6" x 5'-6"	4'-0"	36	6.1	3.9	10.0	
#10	10'-0" x 10'-0"	5'-0" x 5'-0"	4'-0"	30	5.6	3.2	8.8	
#9	9'-6" x 9'-6"	5'-0" x 5'-0"	4'-0"	30	5.0	3.2	8.2	
#8	9'-0" x 9'-0"	4'-6" x 4'-6"	4'-0"	26	4.5	2.6	7.1	
#7	8'-6" x 8'-6"	4'-6" x 4'-6"	4'-0"	26	4.0	2.6	6.6	
#6	7'-6" x 7'-6"	4'-0" x 4'-0"	4'-0"	20	3.1	2.1	5.2	
#5	7'-0" x 7'-0"	4'-0" x 4'-0"	4'-0"	20	2.7	2.1	4.8	
#4	7'-0" x 7'-0"	4'-0" x 4'-0"	4'-0"	20	2.7	2.1	4.8	
#3	6'-6" x 6'-6"	4'-0" x 4'-0"	4'-0"	20	2.4	2.1	4.5	
#2	6'-6" x 6'-6"	4'-0" x 4'-0"	4'-0"	20	2.4	2.1	4.5	

USE WHEN FROST DEPTH IS GREATER THAN 4'-0" BUT LESS THAN OR EQUAL TO 6'-0"						CUBIC YARDS OF CONCRETE		
TOWER BASE WIDTH	PAD WIDTH	PIER SIZE	DEPTH	VERT. PIER BAR QTY.	PAD CONC VOL.	PIER CONC VOL.	TOTAL VOL.	
#12 / #12HD	10'-6" x 10'-6"	5'-6" x 5'-6"	6'-0"	36	6.1	6.2	12.3	
#11	10'-0" x 10'-0"	5'-6" x 5'-6"	6'-0"	36	5.6	6.2	11.8	
#10	9'-6" x 9'-6"	5'-0" x 5'-0"	6'-0"	30	5.0	5.1	10.1	
#9	9'-0" x 9'-0"	5'-0" x 5'-0"	6'-0"	30	4.5	5.1	9.6	
#8	8'-6" x 8'-6"	4'-6" x 4'-6"	6'-0"	26	4.0	4.1	8.1	
#7	7'-6" x 7'-6"	4'-6" x 4'-6"	6'-0"	26	3.1	4.1	7.2	
#6	7'-0" x 7'-0"	4'-0" x 4'-0"	6'-0"	20	2.7	3.3	6.0	
#5	6'-6" x 6'-6"	4'-0" x 4'-0"	6'-0"	20	2.4	3.3	5.7	
#4	6'-6" x 6'-6"	4'-0" x 4'-0"	6'-0"	20	2.4	3.3	5.7	
#3	6'-0" x 6'-0"	4'-0" x 4'-0"	6'-0"	20	2.0	3.3	5.3	
#2	6'-0" x 6'-0"	4'-0" x 4'-0"	6'-0"	20	2.0	3.3	5.3	

USE WHEN FROST DEPTH IS GREATER THAN 6'-0" BUT LESS THAN OR EQUAL TO 8'-0"						CUBIC YARDS OF CONCRETE		
TOWER BASE WIDTH	PAD WIDTH	PIER SIZE	DEPTH	VERT. PIER BAR QTY.	PAD CONC VOL.	PIER CONC VOL.	TOTAL VOL.	
#12 / #12HD	10'-0" x 10'-0"	5'-6" x 5'-6"	8'-0"	36	5.6	8.4	14.0	
#11	9'-6" x 9'-6"	5'-6" x 5'-6"	8'-0"	36	5.0	8.4	13.4	
#10	9'-0" x 9'-0"	5'-0" x 5'-0"	8'-0"	30	4.5	6.9	11.4	
#9	8'-6" x 8'-6"	5'-0" x 5'-0"	8'-0"	30	4.0	6.9	10.9	
#8	8'-0" x 8'-0"	4'-6" x 4'-6"	8'-0"	26	3.6	5.6	9.2	
#7	7'-0" x 7'-0"	4'-6" x 4'-6"	8'-0"	26	2.7	5.6	8.3	
#6	6'-6" x 6'-6"	4'-0" x 4'-0"	8'-0"	20	2.4	4.5	6.9	
#5	6'-0" x 6'-0"	4'-0" x 4'-0"	8'-0"	20	2.0	4.5	6.5	
#4	6'-0" x 6'-0"	4'-0" x 4'-0"	8'-0"	20	2.0	4.5	6.5	
#3	5'-6" x 5'-6"	4'-0" x 4'-0"	8'-0"	20	1.7	4.5	6.2	
#2	5'-6" x 5'-6"	4'-0" x 4'-0"	8'-0"	20	1.7	4.5	6.2	

NOTES: 1) REFER TO DWG. 000001.620.0053 FOR FOUNDATION NOTES.

REV.	BY:	CHK:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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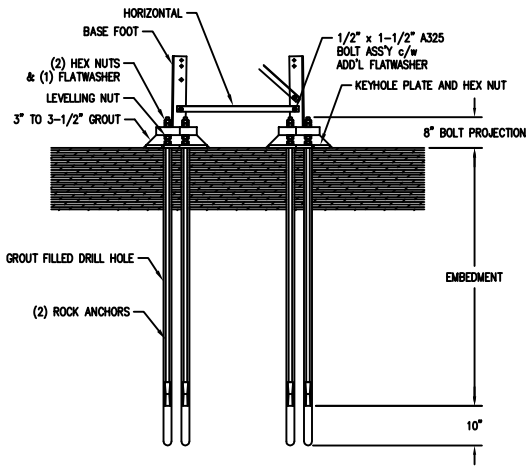
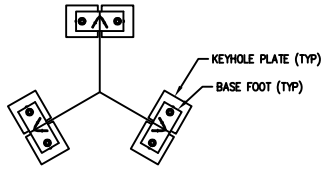
TRYLON

DRAWING NO. 000001.620.0052

CUSTOMER: SITE: SCALE: 30.000

DATE: 24 APR 03 BY: MAW CHK: BCP APP: JB

TITLE: CSA FOUNDATION DETAILS



KIT NUMBER	SECTION No.	C/C PIERS	BASE FOOT	ROCK ANCHOR	ROCK BOLT No.	EMBEDMENT	HORIZONTAL
4.79.0000.102	2F	13-3/4"	3.620.0023.001	5/8" x 98"	R1S-05-A13	7'-6"	3.620.0020.001
4.79.0000.103	3F	16-3/4"	3.620.0024.001	5/8" x 98"	R1S-05-A13	7'-6"	3.620.0020.002
4.79.0000.104	4F	19-3/4"	3.620.0023.001	5/8" x 98"	R1S-05-A13	7'-6"	3.620.0020.003
4.79.0000.105	5F	22-3/4"	3.620.0024.001	5/8" x 98"	R1S-05-A13	7'-6"	3.620.0020.004
4.79.0000.106	6F	25-3/8"	3.620.0025.001	7/8" x 122"	R1S-07-C14	9'-0"	3.620.0020.005
4.79.0000.107	7F	28-1/16"	3.620.0026.001	7/8" x 122"	R1S-07-C14	9'-0"	3.620.0020.006
4.79.0000.108	8F	31-1/16"	3.620.0027.001	7/8" x 122"	R1S-07-C14	9'-0"	3.620.0020.007
4.79.0000.109	9F	34-1/16"	3.620.0026.001	7/8" x 122"	R1S-07-C14	9'-0"	3.620.0020.008
4.79.0000.110	10F	37-1/16"	3.620.0027.001	7/8" x 122"	R1S-07-C14	9'-0"	3.620.0020.009
4.79.0000.111	11F	39-13/16"	3.620.0028.001	7/8" x 122"	R1S-07-C14	9'-6"	3.620.0020.010
4.79.0000.112	12F	42-13/16"	3.620.0029.001	7/8" x 122"	R1S-07-C14	9'-6"	3.620.0020.011
4.79.0000.113	13F	45-13/16"	3.620.0028.001	7/8" x 122"	R1S-07-C14	9'-6"	3.620.0020.012

ROCK ANCHOR DIA.	DRILL HOLE DIA.	KEYHOLE PLATE	TO SET SHELL	TENSION LOAD
5/8"	1-3/4"	3.906.0006.002	125 ft.-lbs	13,550 lbs
7/8"	1-3/4"	3.906.0006.004	390 ft.-lbs	27,700 lbs

WILLIAMS' SUPER HIGH TENSILE ROCK BOLT (SOLID) INSTALLATION INSTRUCTIONS

- NOMINAL BOLT DIAMETER = SEE CHART
 REQUIRED HOLE DIAMETER IN ROCK = SEE CHART
 WILLIAMS' PART NUMBER: SEE CHART
- PROCEDURE:
- 1) DRILL HOLE TO PROPER SIZE, BATTER AND *DEPTH SHOWN ON THE DRAWINGS*. DRILL THE HOLE TEN (10) INCHES DEEPER THAN EMBEDMENT LENGTH SHOWN.
 - 2) PLACE THE WILLIAMS' SUPER HIGH TENSILE ROCK BOLT IN POSITION IN THE HOLE WITH SUFFICIENT PROJECTION. TORQUE THE BOLT TO APPROXIMATELY (SEE CHART) ft lbs TO SET SHELL.
 - 2a) IF SHELL DOES NOT ENGAGE WITH THE ROCK, REFER TO PROJECT ENGINEER FOR INSTRUCTIONS.
 - 3) PLACE A SMALL AMOUNT OF QUICK SETTING GROUT AROUND THE TOP OF THE BOLT WHILE AT THE SAME TIME INSTALL THE DE-AIR GROUT TUBE (12 INCHES LONG) AND THE BEARING PLATE.
 - 4) CLEAN THE THREADS ABOVE THE BEARING PLATE AS WELL AS THE NUTS WITH OIL. USE A PULL JACK TO APPLY A TENSION LOAD OF (SEE CHART) lbs INTO THE BOLT AND INSTALL SECOND NUT TO LOCK ASSEMBLY.
 - 5) BLOW COMPRESSED AIR AROUND THE SOLID BOLT TO ASSURE SYSTEM IS CLEAR. PUMP "M-BED STANDARD" OR OTHER CEMENTICIOUS, NON-SHRINKING GROUT AROUND THE BOLT UNTIL A CONTINUOUS FLOW OF GROUT IS SEEN COMING OUT OF THE DE-AIR TUBE.
 - 6) ALL ANCHOR RODS PLACED IN ROCK SHALL BE GROUTED IN PLACE WITH A NON-FERROUS, NON-SHRINKING GROUT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 27.5 MPa.
 - 7) INSTALLATION COMPLETE.

REV.	BY:	CHK:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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Trylon

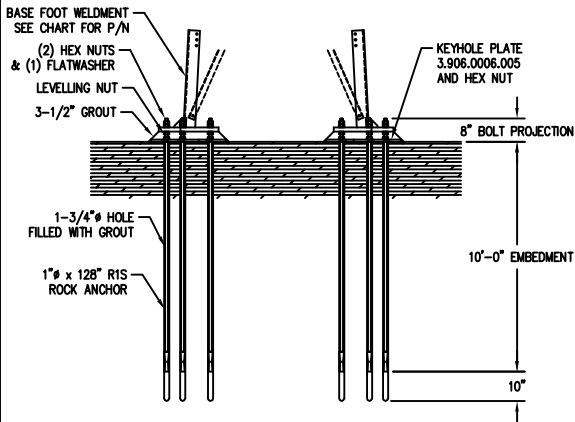
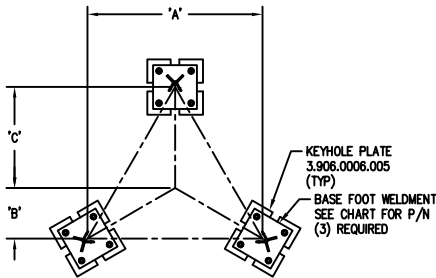
DRAWING NO. 000001.620.0057

CUSTOMER: SITE: SCALE: 20,000

DATE: 21 OCT 03 BY: MAW CHK: MS APP: BZ

TITLE: ROCK BOLT SECT. #2-12HD

NOTES: 1) THIS BASE FOOT KIT IS USEFUL FOR SOUND AND SOLID ROCK FOUNDATIONS WHERE HOLES CAN BE FIELD DRILLED INTO THE ROCK.



KIT NUMBER	FITS TOWER SECTION NUMBER	'A'	'b'	'c'	BASE FOOT WELDMENT P/N
4.79.0000.114	13	59-7/8"	17-1/4"	34-9/16"	3.620.0062.001
4.79.0000.115	14	71-7/8"	20-3/4"	41-1/2"	3.620.0062.001
4.79.0000.116	15	83-7/8"	24-3/16"	48-7/16"	3.620.0062.001
4.79.0000.117	16	95-7/8"	27-11/16"	55-3/8"	3.620.0062.001
4.79.0000.118	17	107-7/8"	31-1/8"	62-1/4"	3.620.0062.001
4.79.0000.119	18	119-7/8"	34-5/8"	69-3/16"	3.620.0061.001
4.79.0000.120	19	131-7/8"	38-1/16"	76-1/8"	3.620.0061.001
4.79.0000.121	20	143-7/8"	41-1/2"	83-1/16"	3.620.0061.001
4.79.0000.122	21	155-7/8"	45"	90"	3.620.0061.001

WILLIAMS' SUPER HIGH TENSILE ROCK BOLT (SOLID) INSTALLATION INSTRUCTIONS

NOMINAL BOLT DIAMETER = 1.0 INCHES
 REQUIRED HOLE DIAMETER IN ROCK = 1.75 INCHES
 WILLIAMS' PART NUMBER: R1S-08-C14

PROCEDURE:

- 1) DRILL HOLE TO PROPER SIZE, BATTER AND *DEPTH SHOWN ON THE DRAWINGS*. DRILL THE HOLE TWELVE (12) INCHES DEEPER THAN EMBEDMENT LENGTH SHOWN.
- 2) PLACE THE WILLIAMS' SUPER HIGH TENSILE ROCK BOLT IN POSITION IN THE HOLE WITH SUFFICIENT PROJECTION. TORQUE THE BOLT TO APPROXIMATELY 500 ft lbs TO SET SHELL.
- 2a) IF SHELL DOES NOT ENGAGE WITH THE ROCK, REFER TO PROJECT ENGINEER FOR INSTRUCTIONS.
- 3) PLACE A SMALL AMOUNT OF QUICK SETTING GROUT AROUND THE TOP OF THE BOLT WHILE AT THE SAME TIME INSTALL THE DE-AIR GROUT TUBE (12 INCHES LONG) AND THE BEARING PLATE.
- 4) CLEAN THE THREADS ABOVE THE BEARING PLATE AS WELL AS THE NUTS WITH OIL. USE A PULL JACK TO APPLY A TENSION LOAD OF 36,350 lbs INTO THE BOLT AND INSTALL SECOND NUT TO LOCK ASSEMBLY.
- 5) BLOW COMPRESSED AIR AROUND THE SOLID BOLT TO ASSURE SYSTEM IS CLEAR. PUMP "M-BED STANDARD" OR OTHER CEMENTIOUS, NON-SHRINKING GROUT AROUND THE BOLT UNTIL A CONTINUOUS FLOW OF GROUT IS SEEN COMING OUT OF THE DE-AIR TUBE.
- 6) ALL ANCHOR RODS PLACED IN PLACE WITH GROUTING IN PLACE WITH A NON-FERROUS, NON-SHRINKING GROUT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 27.5 MPa.
- 7) INSTALLATION COMPLETE.

REV.	BY:	BY:	DESCRIPTION	DATE
	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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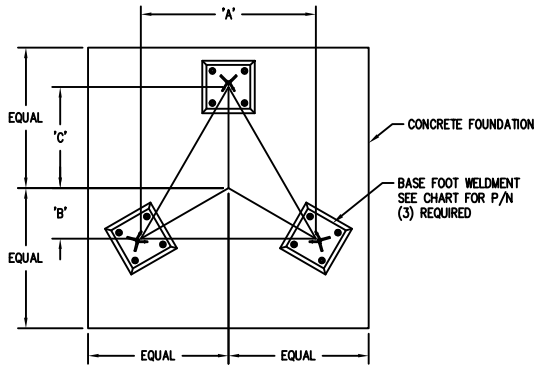
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CUSTOMER: SITE: SCALE: 30.000

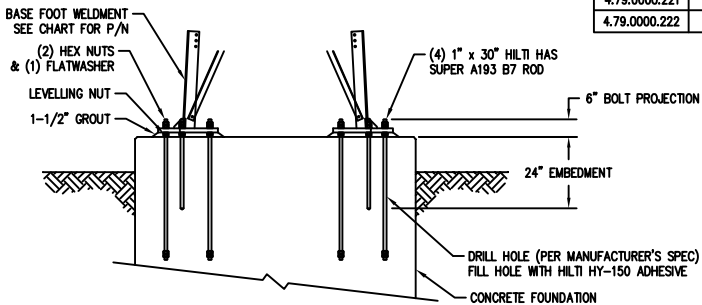
DATE: 10 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: ROCK BOLT INST. SEC. #13-21

NOTES: 1) USE TEMPLATE PROVIDED TO PROPERLY POSITION ROCK BOLTS.



KIT NUMBER	FITS TOWER SECTION NUMBER	'A'	'B'	'C'	BASE FOOT WELDMENT P/N	HY150 CARTRIDGES
4.79.0000.214	13	59-7/8"	17-1/4"	34-9/16"	3.620.0062.001	4
4.79.0000.215	14	71-7/8"	20-3/4"	41-1/2"	3.620.0062.001	4
4.79.0000.216	15	83-7/8"	24-3/16"	48-7/16"	3.620.0062.001	4
4.79.0000.217	16	95-7/8"	27-11/16"	55-3/8"	3.620.0062.001	4
4.79.0000.218	17	107-7/8"	31-1/8"	62-1/4"	3.620.0062.001	4
4.79.0000.219	18	119-7/8"	34-5/8"	69-3/16"	3.620.0061.001	4
4.79.0000.220	19	131-7/8"	38-1/16"	76-1/8"	3.620.0061.001	4
4.79.0000.221	20	143-7/8"	41-1/2"	83-1/16"	3.620.0061.001	4
4.79.0000.222	21	155-7/8"	45"	90"	3.620.0061.001	4



REV.	BY:	BY:	DESCRIPTION	DATE
REV.	REV.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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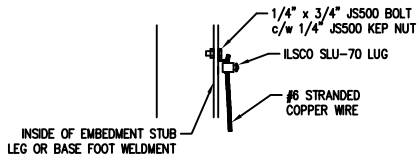
DRAWING NO. 000001.620.0068

CUSTOMER: SITE: SCALE: 30,000

DATE: 10 JUN 04 BY: MAW CHK: JAG APP: JB

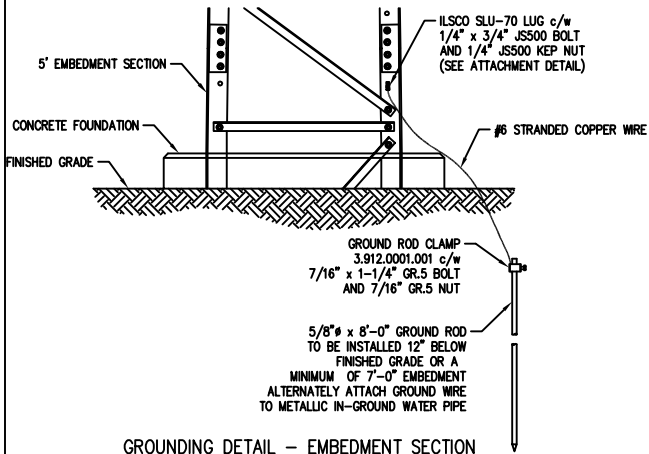
TITLE: HILTI BOLT INSTALLATION

NOTES: 1) IF INSTALLING ON A NEW OR ON AN EXISTING CONCRETE PAD PLEASE NOTE THAT THIS DESIGN REQUIRES A PRE-EXISTING TOP "MAT" OF REINFORCING BARS SUFFICIENT TO PREVENT BREAKAWAY OF CONCRETE AROUND THE HILTI BOLTS.
 2) USE TEMPLATE PROVIDED TO PROPERLY POSITION HILTI RODS.
 3) NEW FOUNDATIONS MUST BE DESIGNED FOR SITE SPECIFIC SOIL CONDITIONS.

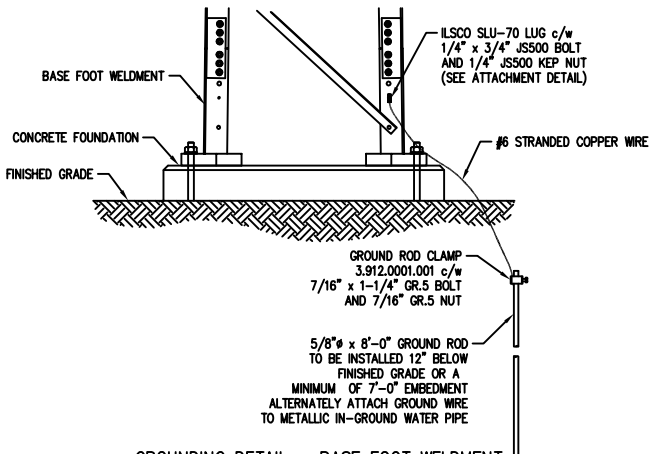


CLAMP ATTACHMENT

SUPERTITAN BASIC GROUNDING KIT P/N 4.91.0103.000		
QUANTITY	PART NO.	DESCRIPTION
1	3.912.0006.001	5/8"φ x 8' Lg. GROUND ROD
3	1301404	#6 B.S.C. WIRE
1	1302090	ILSCO SLU-70 LUG
1	1205011	1/4" x 3/4" JS500 BOLT
1	1205020	1/4" JS500 KEP NUT
1	3.912.0001.001	GROUND ROD CLAMP
1	1201091	7/16" x 1-1/4" GR.5 HEX HEAD BOLT
1	1201080	7/16" GR.5 HEX NUT



GROUNDING DETAIL – EMBEDMENT SECTION




GROUNDING DETAIL – BASE FOOT WELDMENT

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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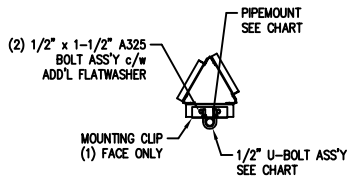
DRAWING NO. 000001.620.0030

CUSTOMER: _____ SITE: _____ SCALE: 15.000

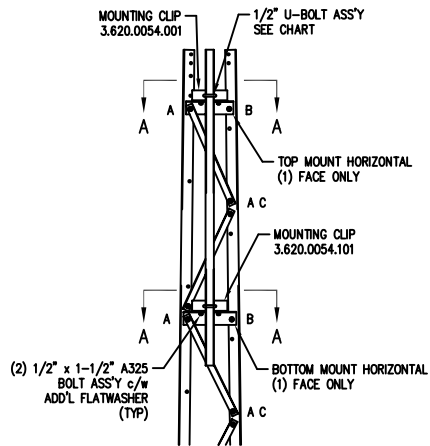
NOTES: 1) THERE ARE TWO TYPES OF SUPERTITAN ANCHOR DESIGNS. ONE IS A 5' EMBEDMENT SECTION WHICH IS THE DEFAULT FOR BOTTOM TOWER SECTIONS #2 THROUGH #12HD. THE OTHER IS A BASE FOOT WELDMENT KIT WITH ANCHOR RODS. THIS TYPE B IS THE DEFAULT WITH BOTTOM SECTIONS #13-21.

DATE: 10 APR 03	BY:	CHK:	APP:
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TITLE: GROUNDING DETAIL



SECTION A-A



1.9" OD PIPEMOUNT KITS

SECT. No.	MOUNT KIT No.	TOP MNT. HORIZ.	BTM. MNT. HORIZ.	PIPEMOUNT	U-BOLT ASS'Y
1	4.84.0001.001	3.620.0018.001	3.620.0018.002	3.960.0013.100	4.963.0001.006
2	4.84.0001.002	3.620.0018.003	3.620.0018.004	3.960.0013.100	4.963.0001.006
3	4.84.0001.003	3.620.0018.005	3.620.0018.006	3.960.0013.100	4.963.0001.006
4	4.84.0001.004	3.620.0018.007	3.620.0018.008	3.960.0013.100	4.963.0001.006
5	4.84.0001.005	3.620.0018.009	3.620.0018.010	3.960.0013.100	4.963.0001.006
6	4.84.0001.006	3.620.0018.011	3.620.0018.012	3.960.0013.100	4.963.0001.006
7	4.84.0001.007	3.620.0018.013	3.620.0018.014	3.960.0013.100	4.963.0001.006
8	4.84.0001.008	3.620.0018.015	3.620.0018.016	3.960.0013.100	4.963.0001.006
9	4.84.0001.009	3.620.0018.017	3.620.0018.018	3.960.0013.100	4.963.0001.006
10	4.84.0001.010	3.620.0018.019	3.620.0018.020	3.960.0013.100	4.963.0001.006
11	4.84.0001.011	3.620.0018.021	3.620.0018.022	3.960.0013.100	4.963.0001.006
12	4.84.0001.012	3.620.0018.023	3.620.0018.024	3.960.0013.100	4.963.0001.006

4.5" OD PIPEMOUNT KITS

SECT. No.	MOUNT KIT No.	TOP MNT. HORIZ.	BTM. MNT. HORIZ.	PIPEMOUNT	U-BOLT ASS'Y
1	4.84.0006.001	3.620.0018.001	3.620.0018.002	3.960.0011.103	4.963.0001.207
2	4.84.0006.002	3.620.0018.003	3.620.0018.004	3.960.0011.103	4.963.0001.207
3	4.84.0006.003	3.620.0018.005	3.620.0018.006	3.960.0011.103	4.963.0001.207
4	4.84.0006.004	3.620.0018.007	3.620.0018.008	3.960.0011.103	4.963.0001.207
5	4.84.0006.005	3.620.0018.009	3.620.0018.010	3.960.0011.103	4.963.0001.207
6	4.84.0006.006	3.620.0018.011	3.620.0018.012	3.960.0011.103	4.963.0001.207
7	4.84.0006.007	3.620.0018.013	3.620.0018.014	3.960.0011.103	4.963.0001.207
8	4.84.0006.008	3.620.0018.015	3.620.0018.016	3.960.0011.103	4.963.0001.207
9	4.84.0006.009	3.620.0018.017	3.620.0018.018	3.960.0011.103	4.963.0001.207
10	4.84.0006.010	3.620.0018.019	3.620.0018.020	3.960.0011.103	4.963.0001.207
11	4.84.0006.011	3.620.0018.021	3.620.0018.022	3.960.0011.103	4.963.0001.207
12	4.84.0006.012	3.620.0018.023	3.620.0018.024	3.960.0011.103	4.963.0001.207

MARK	SIZE	QTY
A	1/2" x 1-1/2" A325	4
B	1/2" x 1-1/2" A325 + FLATWASHER	2
C	3/16"x2"x2" SPACER c/w 9/16"ø HOLE	2

MARK	SIZE	QTY
A	1/2" x 1-3/4" A325 + FLATWASHER	4
B	1/2" x 1-1/2" A325	2
C	3/16"x2"x2" SPACER c/w 9/16"ø HOLE	2

NOTES:

REV.	BY:	BY:	DESCRIPTION	DATE
	REV.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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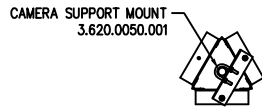
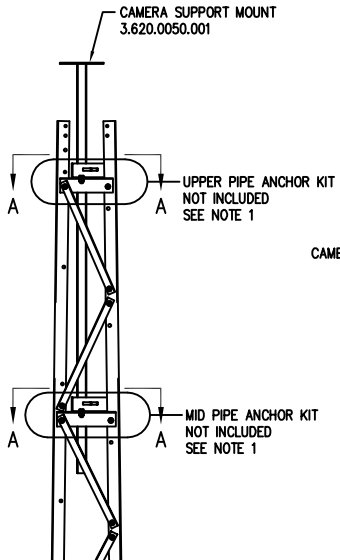
Trylon

DRAWING NO. 000001.620.0033

CUSTOMER: SITE: SCALE: 20.000

DATE: 11 APR 03 BY: CHK: APP:

TITLE: SIDE MOUNT DETAILS




SECTION A-A

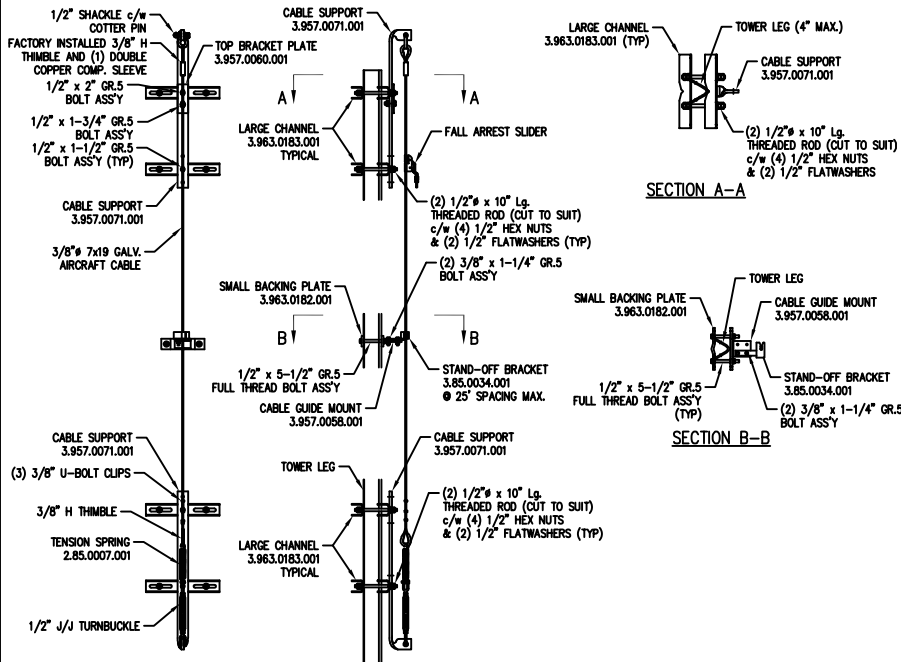
CAMERA MOUNT
KIT No. 4.85.0102.000

NOTES: 1) REFER TO DWG. 000001.620.0031 FOR MOUNT HORIZ. AND SUPPORT HORIZONTAL KITS.

REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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CUSTOMER:		DRAWING NO. 000001.620.0034	
DATE: 11 APR 03		SCALE: 20,000	
BY:		APP:	
CHK:		SITE:	
TITLE: CAMERA MOUNT DETAILS			



NOTE:
C.S.A. CERTIFICATION IS VALID ONLY IF THE SYSTEM IS INSTALLED USING ONLY THE MANUFACTURER'S COMPONENTS AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

INSTRUCTIONS

INSTALLATION STEPS

- BODY HARNESS:** The Cougar Cable System is designed to be used with a full body harness. Body belts are not an acceptable alternative. Please review the instructions included with the body harness for details on proper fitting and use.
- TOP BRACKET:** Install top bracket in center of the mount at upper elevation. Tighten nuts on backer plates using "turn of the nut method" and exercising care not to over tighten nuts and bend backer plates.
- CABLE:** Attach cable to top bracket using the shackle provided and install the cotter pin to prevent the bolt from unscrewing.
- LOWER BRACKET:** Install the lower bracket in the mount center and connect all hardware as shown in the drawing to the left. Tighten the turnbuckle until the spring has $\frac{1}{2}$ " to $\frac{3}{4}$ " of deflection.
- STAND-OFF BRACKETS:** Install stand-off brackets at approximately 25 foot intervals. The stand-off brackets should be installed such that the cable will lie in the center of the stand-off bracket. The clip on the stand-off bracket is spring loaded and should firmly grip the 3/8" cable.
- CABLE TERMINATION:** After the system is installed excess cable can be cut off.
- SLIDER:** The stainless steel slider is removable and should be stored inside. Consult the instruction sheet provided with the slider for information on care, use and maintenance.


OPERATION

- The Cougar Cable System is provided as an integrated kit and may not be used for other applications or in conjunction with other Fall Protection Systems. CSA Certification is void if components are purchased or introduced outside of this kit.
- If any part of the system has experienced a fall arrest, the system shall be removed from service, inspected and repaired before using.
- The Cougar Cable System is designed to arrest the fall of a single person at a time although multiple users can use the system to access the work place. Only one climber can actively utilize the system at one time. All other climbers must be tied-off appropriately.
- The Cougar Cable System is designed to be used in a vertical operating position. The system must be installed plumb ($\pm 3^\circ$) to ensure proper activation of the slider brake cam.
- The upper mounting bracket is designed to absorb energy if a fall occurs and reduce potential injury to the climber. Since many materials exhibit brittleness and behave differently at extreme cold it is recommended that no climbing occur at temperatures less than minus 30° Celsius.

REV.	BY:	BY:	DESCRIPTION	DATE
	REV.	CHK.		

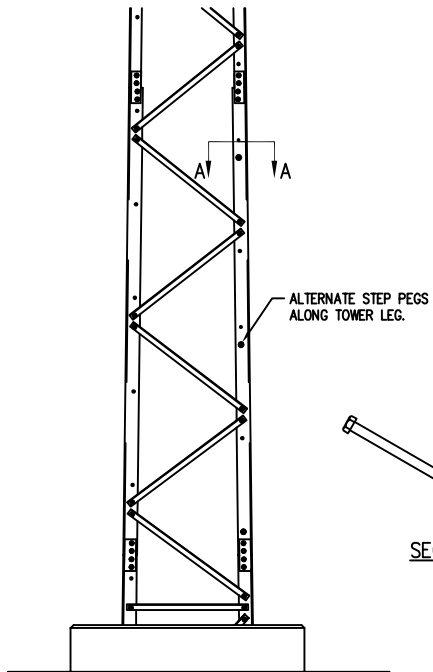
REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

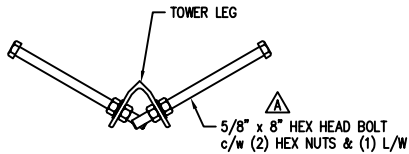
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CUSTOMER:	SITE:		
DATE: 25 APR 03	BY:	CHK:	SCALE: 15.000
TITLE: SUPERTITAN SAFETY CABLE			

NOTES: 1) THE UPPER SAFETY CABLE SUPPORT MUST BE ATTACHED TO A STRUCTURE CAPABLE OF SUPPORTING A STATIC LOAD OF 5000lbs.

2) WARNING: ANY SLIDER WHICH HAS EXPERIENCED A FALL ARREST SHOULD NOT BE USED AFTER SUCH FALL ARREST.



KIT NUMBER	TOWER HEIGHT
4.98.0100.010	10'
4.98.0100.020	20'
4.98.0100.030	30'
4.98.0100.040	40'
4.98.0100.050	50'
4.98.0100.060	60'
4.98.0100.070	70'
4.98.0100.080	80'
4.98.0100.090	90'
4.98.0100.100	100'
4.98.0100.110	110'
4.98.0100.120	120'



SECTION A-A


NOTES: 1) WHEN USING AN ANTI-CLIMB SHIELD START STEP PEGS IN FIRST HOLE ABOVE SHIELD.
 2) STEP BOLTS ARE INSTALLED THIS WAY FOR SUPERTITAN SECTION #1 TO #12HD ONLY. SEE DWG #000001.620.0100 FOR STEPBOLT INSTALLATION OF SECTIONS #13 - #21.

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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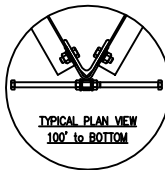
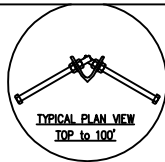
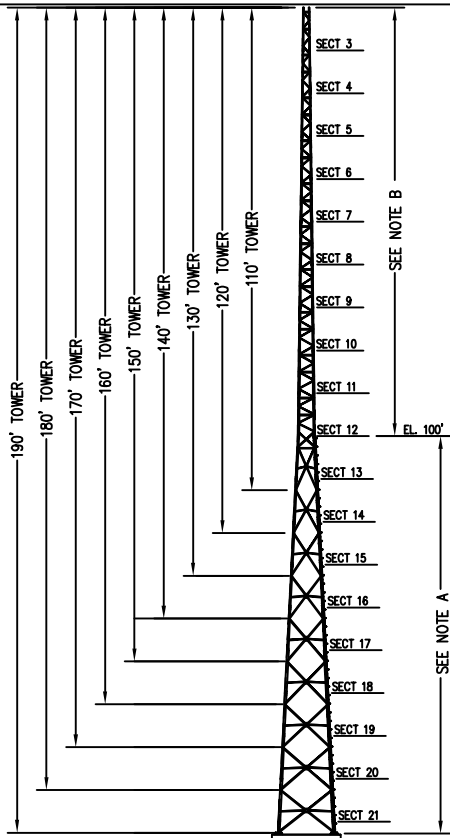


DRAWING NO. 000001.620.0041

CUSTOMER: SITE: SCALE: 25,000

DATE: 25 APR 03 BY: CHK: APP:

TITLE: STEP PEG INSTALLATION



S300 STEP -PEG KITS	
TOWER HEIGHT	KIT NUMBER
190'	4.98.S300.190
180'	4.98.S300.180
170'	4.98.S300.170
160'	4.98.S300.160
150'	4.98.S300.150
140'	4.98.S300.140
130'	4.98.S300.130
120'	4.98.S300.120
110'	4.98.S300.110

NOTES:


- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

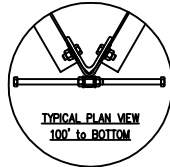
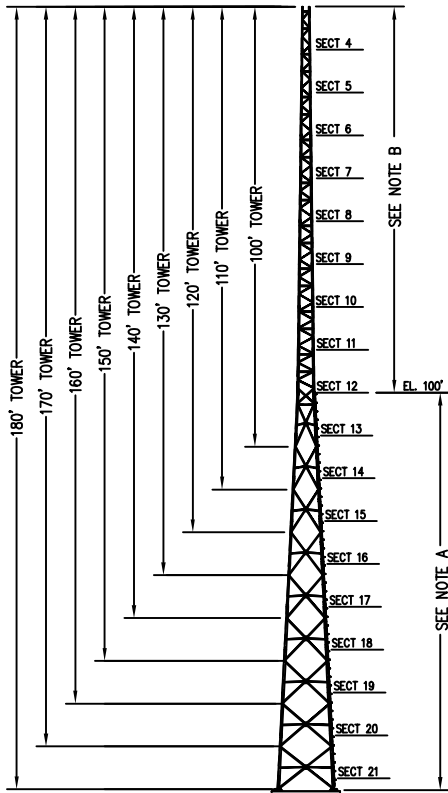
- NOTES: 1) SECTIONS 3-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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	DRAWING NO. 000001.620.0110	
CUSTOMER:	SITE: S300 SERIES	SCALE: 300.000
DATE: 19 NOV 04	BY:	CHK: APP:
TITLE: CLIMBING STEP-PEG KITS		




S400 STEP -PEG KITS	
TOWER HEIGHT	KIT NUMBER
180'	4.98.S400.180
170'	4.98.S400.170
160'	4.98.S400.160
150'	4.98.S400.150
140'	4.98.S400.140
130'	4.98.S400.130
120'	4.98.S400.120
110'	4.98.S400.110
100'	4.98.S400.100

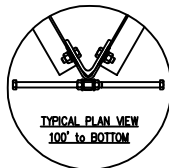
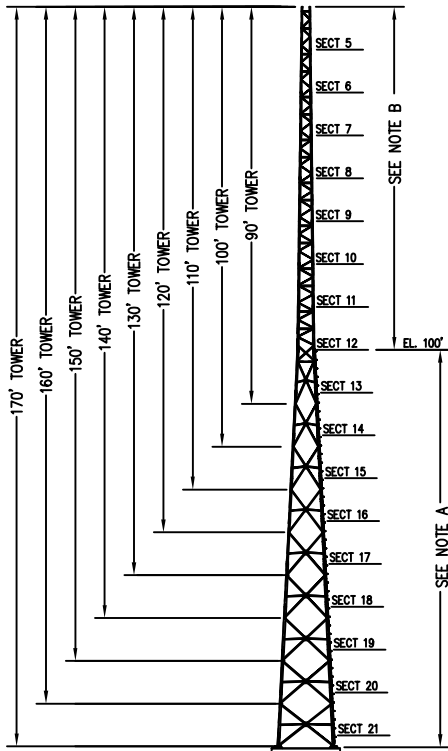
NOTES:
 A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY for 100' to BOTTOM.
 B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

NOTES:
 1) SECTIONS 4-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON INC. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON INC.		
	DRAWING NO. 000001.620.0111	
CUSTOMER:	SITE: S400 SERIES	SCALE: 300,000
DATE: 19 NOV 04	BY:	CHK:
TITLE: CLIMBING STEP-PEG KITS		



S500 STEP - PEG KITS	
TOWER HEIGHT	KIT NUMBER
170'	4.98.S500.170
160'	4.98.S500.160
150'	4.98.S500.150
140'	4.98.S500.140
130'	4.98.S500.130
120'	4.98.S500.120
110'	4.98.S500.110
100'	4.98.S500.100
90'	4.98.S500.090


NOTES:

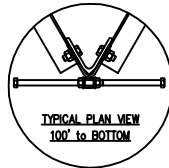
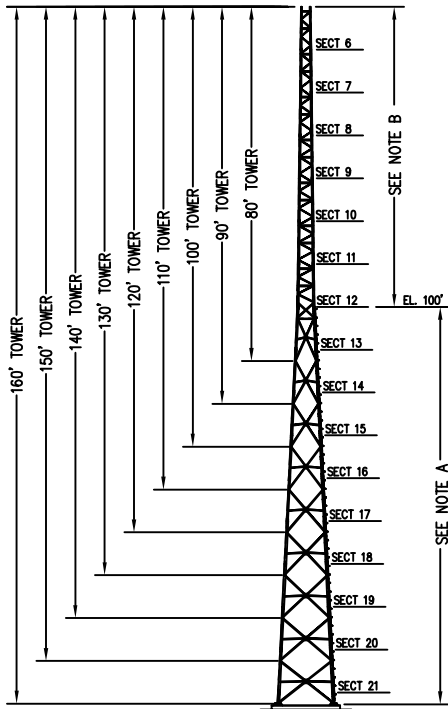
- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' TO BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' TO TOP.

- NOTES: 1) SECTIONS 5-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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	DRAWING NO. 000001.620.0112	
CUSTOMER:	SITE:	SCALE:
DATE:	BY:	CHK:
19 NOV 04		
TITLE:		
CLIMBING STEP-PEG KITS		



S600 STEP -PEG KITS	
TOWER HEIGHT	KIT NUMBER
160'	4.98.S600.160
150'	4.98.S600.150
140'	4.98.S600.140
130'	4.98.S600.130
120'	4.98.S600.120
110'	4.98.S600.110
100'	4.98.S600.100
90'	4.98.S600.090
80'	4.98.S600.080


NOTES:

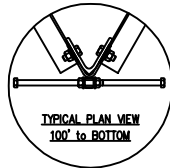
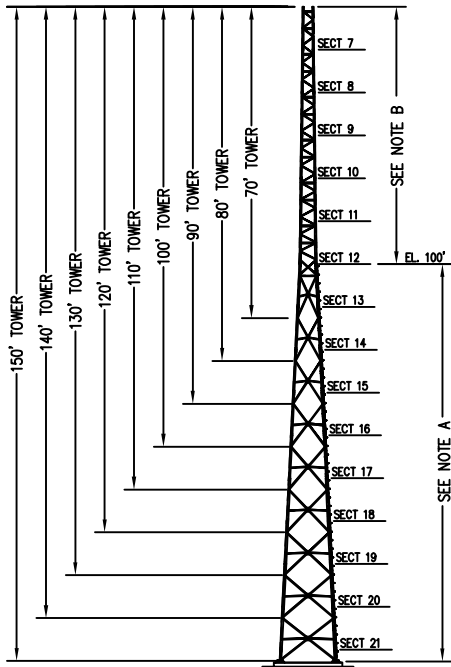
- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' TO BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' TO TOP.

- 1) SECTIONS 6-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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	DRAWING NO. 000001.620.0113	
CUSTOMER:	SITE: S600 SERIES	SCALE: 300.000
DATE: 19 NOV 04	BY:	CHK: APP:
TITLE: CLIMBING STEP-PEG KITS		




S700 STEP - PEG KITS	
TOWER HEIGHT	KIT NUMBER
150'	4.98.S700.150
140'	4.98.S700.140
130'	4.98.S700.130
120'	4.98.S700.120
110'	4.98.S700.110
100'	4.98.S700.100
90'	4.98.S700.090
80'	4.98.S700.080
70'	4.98.S700.070

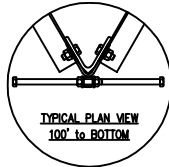
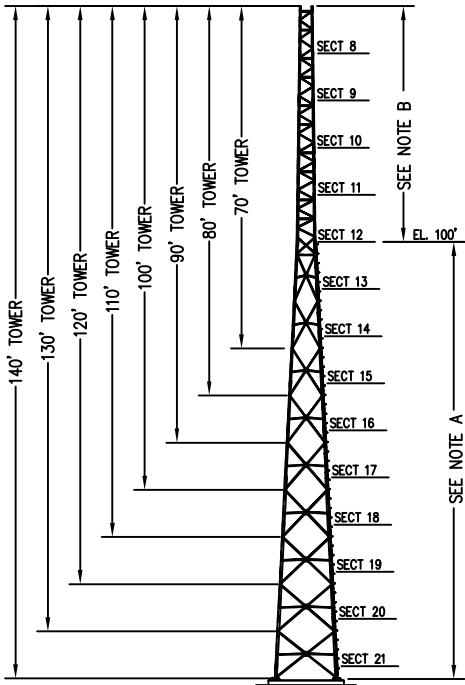
NOTES:
 A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY for 100' to BOTTOM.
 B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

NOTES: 1) SECTIONS 7-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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	DRAWING NO. 000001.620.0114	
CUSTOMER:	SITE: S700 SERIES	SCALE: 300.000
DATE: 19 NOV 04	BY:	CHK: APP:
TITLE: CLIMBING STEP-PEG KITS		



S800 STEP -PEG KITS	
TOWER HEIGHT	KIT NUMBER
140'	4.98.S800.140
130'	4.98.S800.130
120'	4.98.S800.120
110'	4.98.S800.110
100'	4.98.S800.100
90'	4.98.S800.090
80'	4.98.S800.080
70'	4.98.S800.070


NOTES:

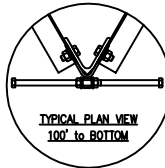
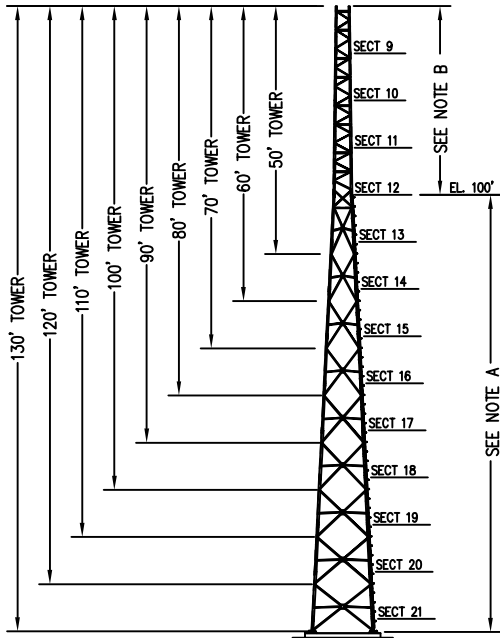
- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

- NOTES: 1) SECTIONS 8-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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	DRAWING NO. 000001.620.0115	
CUSTOMER:	SITE: S800 SERIES	SCALE: 300.000
DATE: 19 NOV 04	BY:	CHK: APP:
TITLE: CLIMBING STEP-PEG KITS		



S900 STEP -PEG KITS	
TOWER HEIGHT	KIT NUMBER
130'	4.98.S900.130
120'	4.98.S900.120
110'	4.98.S900.110
100'	4.98.S900.100
90'	4.98.S900.090
80'	4.98.S900.080
70'	4.98.S900.070
60'	4.98.S900.060
50'	4.98.S900.050


NOTES:

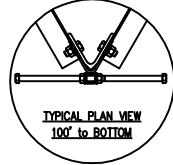
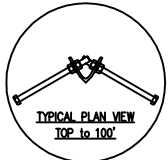
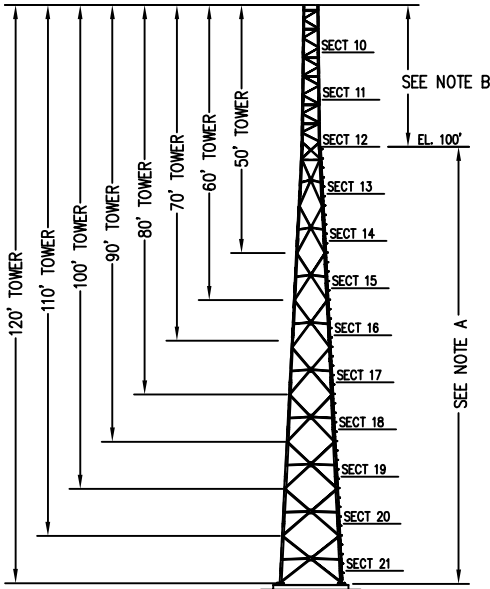
- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

- NOTES: 1) SECTIONS 9-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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	DRAWING NO. 000001.620.0116	
CUSTOMER:	SITE: S900 SERIES	SCALE: 300.000
DATE: 19 NOV 04	BY:	CHK:
TITLE: CLIMBING STEP-PEG KITS		



S1000 STEP -PEG KITS	
TOWER HEIGHT	KIT NUMBER
120'	4.98.1000.120
110'	4.98.1000.110
100'	4.98.1000.100
90'	4.98.1000.090
80'	4.98.1000.080
70'	4.98.1000.070
60'	4.98.1000.060
50'	4.98.1000.050

NOTES:
 A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' TO BOTTOM.
 B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' TO TOP.


NOTES:
 1) SECTIONS 10-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON INC. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON INC.

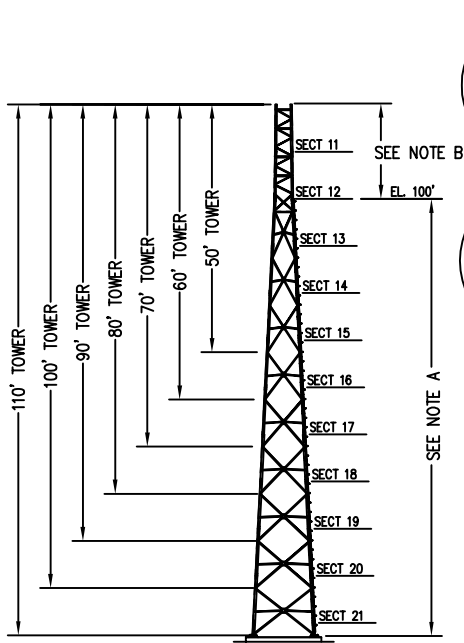


DRAWING NO. 000001.620.0117

CUSTOMER: SITE: S1000 SERIES SCALE: 300.000

DATE: 19 NOV 04 BY: CHK: APP:

TITLE: CLIMBING STEP-PEG KITS



S1100 STEP -PEG KITS	
TOWER HEIGHT	KIT NUMBER
110'	4.98.1100.110
100'	4.98.1100.100
90'	4.98.1100.090
80'	4.98.1100.080
70'	4.98.1100.070
60'	4.98.1100.060
50'	4.98.1100.050


NOTES:

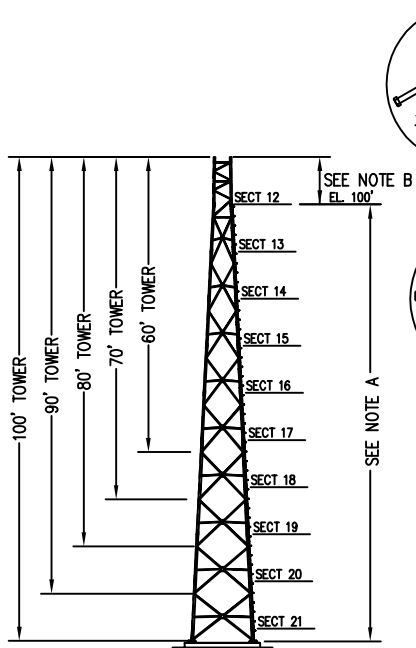
- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
 B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

- NOTES: 1) SECTIONS 11-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

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	DRAWING NO. 000001.620.0118	
CUSTOMER:	SITE: S1100 SERIES	SCALE: 300.000
DATE: 19 NOV 04	BY:	CHK: APP:
TITLE: CLIMBING STEP-PEG KITS		




S1200 STEP -PEG KITS	
TOWER HEIGHT	KIT NUMBER
100'	4.98.1200.100
90'	4.98.1200.090
80'	4.98.1200.080
70'	4.98.1200.070
60'	4.98.1200.060

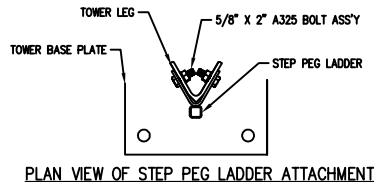
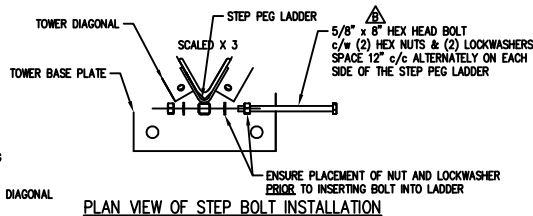
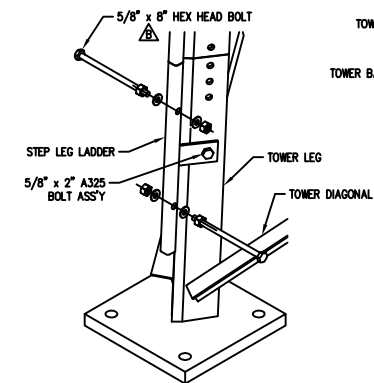
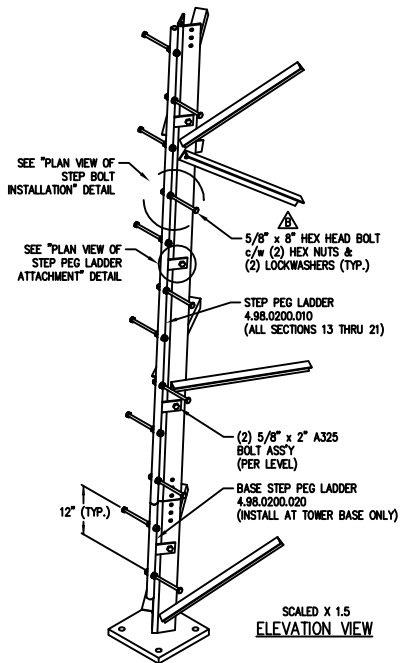
REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:	
DRAWING NUMBER	DRAWING NUMBER

NOTES:
 A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
 B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

NOTES: 1) SECTIONS 12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

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	DRAWING NO. 000001.620.0119	
CUSTOMER:	SITE: S1200 SERIES	SCALE: 300.000
DATE: 19 NOV 04	BY:	CHK: APP:
TITLE: CLIMBING STEP-PEG KITS		



4.98.0200.010		4.98.0200.020	
DESCRIPTION	QTY	DESCRIPTION	QTY
3.620.0070.001	1	3.620.0071.001	1
5/8" x 2" A325 BOLT	7	5/8" x 2" A325 BOLT	3
5/8" x 8" HEX HEAD BOLT	10	5/8" x 8" HEX HEAD BOLT	2
5/8" HEX NUT	20	5/8" HEX NUT	4
5/8" LOCKWASHER	20	5/8" LOCKWASHER	4
3/4" SEALS ZINC COATED	4	3/4" SEALS ZINC COATED	2

KIT NUMBERS:

4.98.0200.010 - STANDARD 10' STEP PEG LADDER
4.98.0200.020 - BASE STEP PEG LADDER

REV.	BY:	BY:	DESCRIPTION	DATE
REV.	CHK.	CHK.		

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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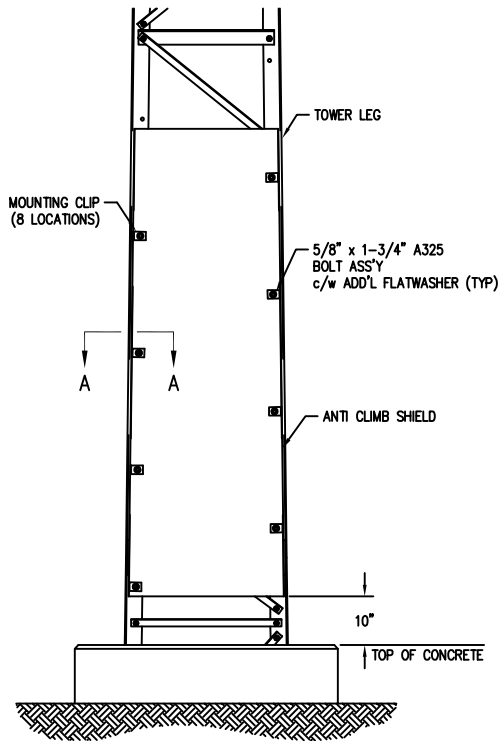
DRAWING NO. 000001.620.0100

CUSTOMER: SITE: SCALE: 25.000

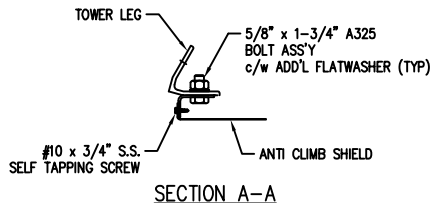
NOTES: 1) A STEP PEG LADDER IS AN ALTERNATIVE CLIMBING OPTION TO A STANDARD APEX CLIMBING LADDER. THE ADVANTAGES ARE: REDUCED WIND LOAD AND LOWER COST.
2) USE THIS KIT ONLY FOR SUPER TITAN SECTIONS 13 THRU 21.
3) FOR INSTALLATION OF SECTION 1-12HD SEE DWG 000001.620.0041.

DATE:	BY:	CHK:	APP:
05 JUL 04			

TITLE: STEP PEG LADDER ASSEMBLY



KIT NUMBER	SECTION NUMBER	ANTI CLIMB SHIELD	MOUNTING CLIP
4.92.0001.001	1	3.620.0053.001	3.620.0053.200
4.92.0001.002	2	3.620.0053.002	3.620.0053.200
4.92.0001.003	3	3.620.0053.003	3.620.0053.200
4.92.0001.004	4	3.620.0053.004	3.620.0053.200
4.92.0001.005	5	3.620.0053.005	3.620.0053.200
4.92.0001.006	6	3.620.0053.006	3.620.0053.200
4.92.0001.007	7	3.620.0053.007	3.620.0053.200
4.92.0001.008	8	3.620.0053.008	3.620.0053.200
4.92.0001.009	9	3.620.0053.009	3.620.0053.200
4.92.0001.010	10	3.620.0053.010	3.620.0053.200
4.92.0001.011	11	3.620.0053.011	3.620.0053.200
4.92.0001.012	12	3.620.0053.012	3.620.0053.200




REV.	BY:	BY:	DESCRIPTION	DATE

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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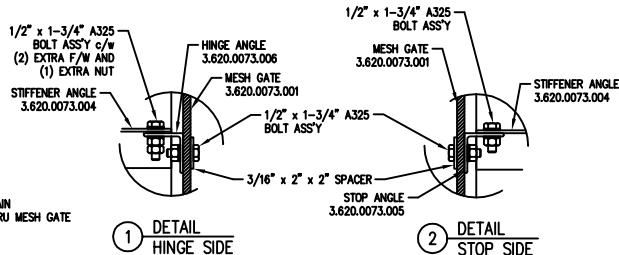
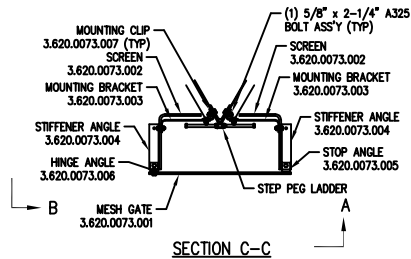
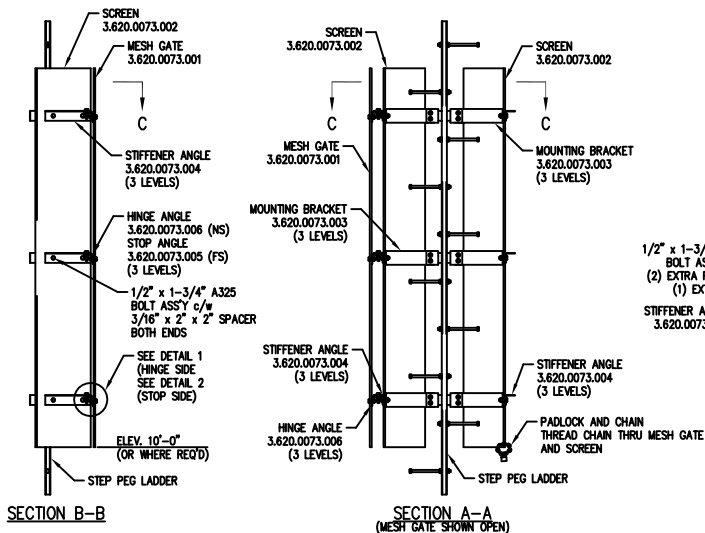
DRAWING NO. 000001.620.0044

CUSTOMER: SITE: SCALE: 20,000

DATE: 29 APR 03 BY: CHK: APP:

TITLE: ANTI CLIMB INSTALLATION

NOTES:



- NOTES: 1) ALL BOLTS ARE 1/2" x 1-3/4" A325 ASSEMBLIES UNLESS NOTED.
 2) THIS ANTI CLIMB KIT IS UTILIZED ONLY ON THE LEG WITH STEP PEG OR CLIMBING LADDER TO PREVENT UNAUTHORIZED CLIMBING.
 3) THIS KIT IS USED ONLY ON STSS SECTIONS 13 THRU 21.


KIT #4.92.0001.213

REV.	BY:	CHK:	DESCRIPTION	DATE

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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DRAWING NO. 000001.620.0099

CUSTOMER: SITE: SCALE: 20.000

DATE: 06 JUL 04	BY:	CHK:	APP:
-----------------	-----	------	------

TITLE: ANTI CLIMB MESH ASSEMBLY



Trylon

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21 SOUTH FIELD DRIVE
P.O. BOX 186
ELMIRA, ON
N3B 2Z6
CANADA

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FAX: (519) 669-4187
WEBSITE: www.trylon.com
E-MAIL: info@trylon.com