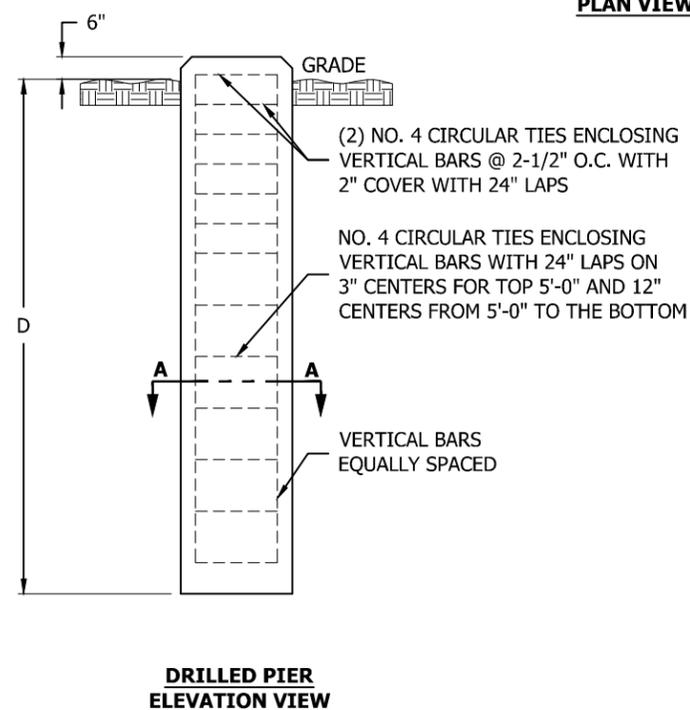
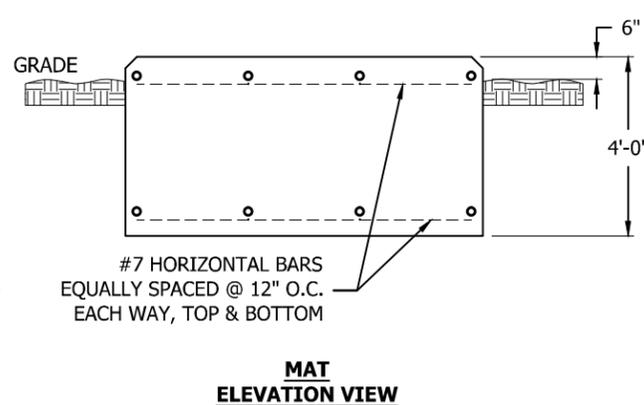
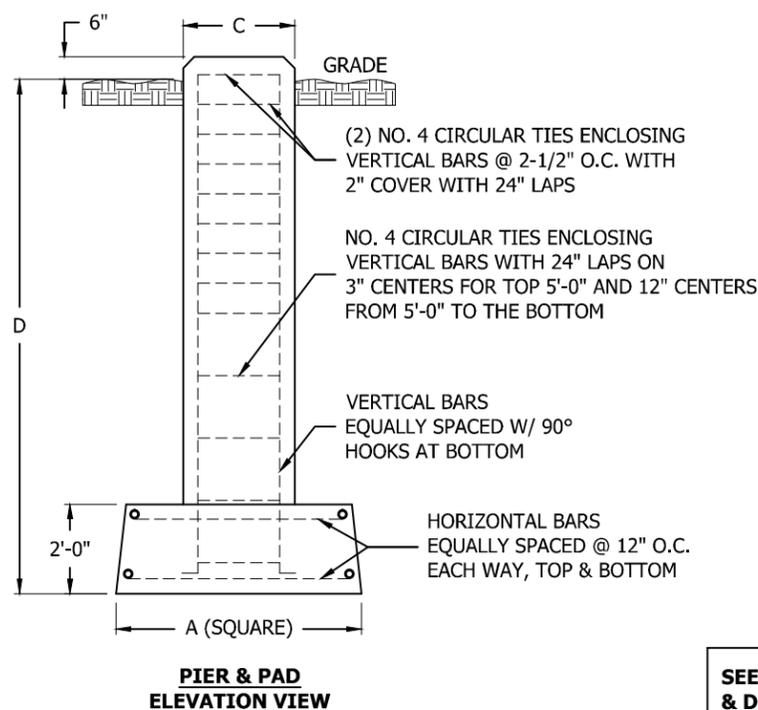
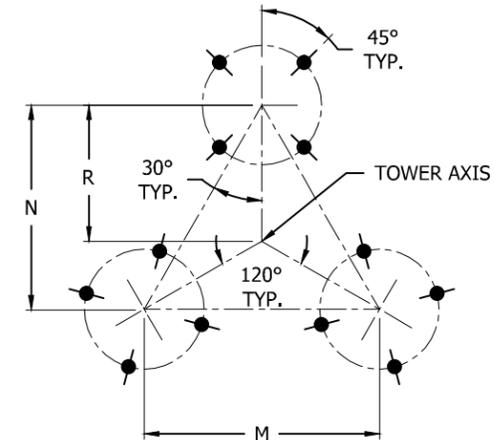
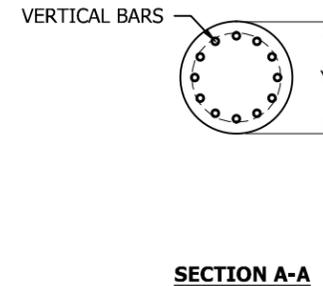
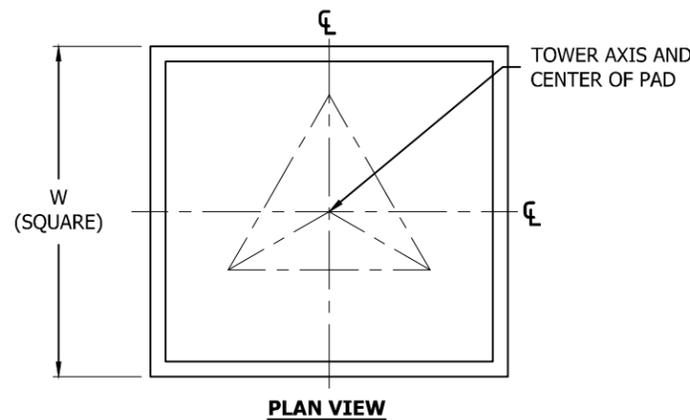
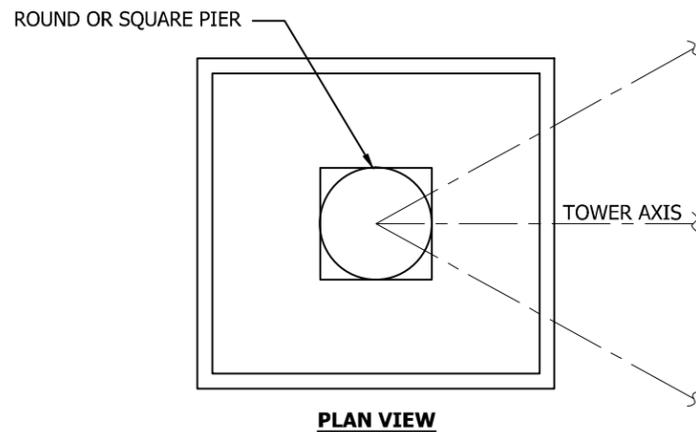


SELF-SUPPORTING TOWER STANDARD FOUNDATIONS PER ANSI/TIA-222-G PRESUMPTIVE CLAY SOIL

| TOWER BASE SECTION | ANCHOR BOLT DATA | | | | | | PIER & PAD | | | | | | MAT | | DRILLED PIER | | | | |
|--------------------|-------------------|-------------|-------------|---------------------------------|-------------------------|--------------|------------|-------|-------|---------------|-----------------|--------------------------------|-------------|--------|-------------------------|------------|-------|---------------|--------------------------------|
| | LAYOUT DIMENSIONS | | | A-BOLTS 12- REQ'D OR SHORT BASE | BOLT CIRCLE DIA. INCHES | PROJ. INCHES | DIMENSIONS | | | VERTICAL BARS | HORIZONTAL BARS | REQ'D CONCRETE (cu.yds-3 fnds) | | W | REQ'D CONCRETE (cu.yds) | DIMENSIONS | | VERTICAL BARS | REQ'D CONCRETE (cu.yds-3 fnds) |
| | M | N | R | | | | D | A | C | | | ROUND PIER | SQUARE PIER | | | D | Y | | |
| 3WN | - | - | - | SB3 | 3 1/2 | - | - | - | - | - | - | - | - | 6'-9" | 6.8 | - | - | - | - |
| 4N | - | - | - | SB4 | 4 1/4 | - | - | - | - | - | - | - | - | 8'-0" | 9.5 | - | - | - | - |
| 5N | - | - | - | SB5 | 4 1/4 | - | - | - | - | - | - | - | - | 8'-9" | 11.3 | - | - | - | - |
| 6N62 | 4'-6 1/4" | 3'-11" | 2'-7 5/16" | 5/8X42 | 4 15/16 | 3 1/2 | - | - | - | - | - | - | - | 10'-3" | 15.6 | - | - | - | - |
| 7N165 | 6'-6 3/4" | 5'-8 3/16" | 3'-9 1/2" | 5/8X42 | 4 15/16 | 3 1/2 | 8'-0" | 4'-6" | 2'-0" | (8) - #6 | #6 | 6.3 | 6.9 | 11'-6" | 19.6 | - | - | - | - |
| 8N106 | 8'-6 3/4" | 7'-5" | 4'-11 5/16" | 5/8X42 | 4 15/16 | 3 1/2 | 8'-0" | 5'-0" | 2'-0" | (8) - #6 | #7 | 7.3 | 7.9 | 14'-3" | 30.1 | 15'-0" | 2'-6" | (8) - #8 | 8.4 |
| 9N325/9N82 | 10'-6 3/4" | 9'-1 3/4" | 6'-1 3/16" | 5/8X42 | 4 15/16 | 3 1/2 | 8'-0" | 5'-6" | 2'-0" | (8) - #6 | #7 | 8.4 | 9 | 16'-0" | 37.9 | 18'-0" | 2'-6" | (8) - #8 | 10.2 |
| 10N387/10N183 | 12'-7 1/4" | 10'-11" | 7'-3 5/16" | 3/4X48 | 5 21/32 | 4 | 8'-6" | 5'-6" | 2'-0" | (8) - #6 | #7 | 8.6 | 9.2 | 18'-3" | 49.3 | 20'-0" | 2'-6" | (8) - #8 | 11.1 |
| 11N332 | 14'-7 7/8" | 12'-8 5/16" | 8'-5 9/16" | 7/8X60 | 7 1/16 | 5 | 9'-0" | 6'-0" | 2'-6" | (8) - #8 | #7 | 11.4 | 12.6 | - | - | 22'-0" | 2'-6" | (8) - #8 | 12.3 |
| 12N18 | 16'-8 3/8" | 14'-5 9/16" | 9'-7 11/16" | 7/8X60 | 7 1/16 | 5 | 9'-0" | 6'-6" | 2'-6" | (8) - #8 | #7 | 12.8 | 13.9 | - | - | 25'-0" | 2'-6" | (8) - #8 | 13.9 |



SEE DRAWING B090548 FOR GENERAL FOUNDATION NOTES & DRAWING B050439 FOR ANCHOR BOLT LAYOUT

| FILE NO. | | | | |
|----------------|-----------------------|-----|-----|-----|
| REVISIONS | | | | |
| REV | DESCRIPTION | DWN | CHK | APP |
| 3 | ADDED 12N FOUNDATIONS | SM | HA | HA |
| DATE: 11/25/14 | | | | |



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SELF-SUPPORTING TOWER
STANDARD FOUNDATIONS
ANSI/TIA-222-G

| | | |
|----------------------|--------------|----------------|
| DWN: CEJ | CHK'D: SM | DATE: 01/24/13 |
| ENGR: HA | SHEET #: | |
| PRJ. ENGR: | PRJ. MANG'R: | |
| DRAWING NO: DWG-0693 | REV: 3 | |

**STANDARD FOUNDATION NOTES
ANSI/TIA-222-G**

1. STANDARD FOUNDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA-222-G, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES", SECTION 9 AND ANNEX F FOR THE FOLLOWING PRESUMPTIVE CLAY SOIL PARAMETERS:

| N (blows/ft) [blows/m] | Φ (deg) | γ (lb/ft ³) [kN/m ³] | C (psf) [kPa] | Ultimate Bearing (psf) [kPa] | | Ultimate Skin Friction (psf) [kPa] | k (pci) [kN/m ³] | ε ₅₀ |
|------------------------------|------------|--|---------------------|------------------------------------|---------------|---|------------------------------------|-----------------|
| | | | | Shallow Fnds. | Deep Fnds. | | | |
| 8 [26] | 0 | 110 [17] | 1000 [48] | 5000 [240] | 9000 [431] | 500 [24] | 150 [41,000] | 0.01 |

2. THE PURCHASER MUST VERIFY THAT ACTUAL SITE SOIL PARAMETERS MEET OR EXCEED ANSI/TIA-222-G PRESUMPTIVE CLAY SOIL DESIGN PARAMETERS AND THAT THE PENETRATION AND/OR ZONE OF SEASONAL MOISTURE VARIATION AT THE SITE. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT PRESUMPTIVE CLAY SOIL PARAMETERS ARE NOT APPLICABLE FOR THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED.
3. A SITE-SPECIFIC INVESTIGATION IS REQUIRED FOR CLASS III STRUCTURES IN ACCORDANCE WITH ANSI/TIA-222-G.
4. FOUNDATION DESIGNS ASSUME FIELD INSPECTIONS WILL BE PERFORMED BY THE PURCHASER'S REPRESENTATIVE TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS EXISTING AT THE SITE.
5. WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
6. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
7. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENT OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI (31.0 MPa) IN 28 DAYS.
8. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
9. REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
10. REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING, THROUGHOUT PLACEMENT OF CONCRETE AND DURING EXTRACTION OF TEMPORARY CASING.
11. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.

12. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 mm) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 mm) MINIMUM COVER ON REINFORCEMENT. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES (76 mm) NOR BE LESS THAN 2 INCHES (51 mm).
13. SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
14. FOUNDATION DESIGNS ASSUME STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH (200 mm) MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT (16 kN/m³).
15. FOUNDATION DESIGNS ASSUME LEVEL GRADE AT THE SITE.
16. FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
17. FOR FOUNDATION AND ANCHOR TOLERANCES SEE DRAWING A810214.
18. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
19. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
20. FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
21. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL EXCEPT FOR PIERS OR PIER AND PAD FOUNDATIONS. FORMS FOR PIERS SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
22. CONSTRUCTION JOINTS, IF REQUIRED IN PIER MUST BE AT LEAST 12 INCHES (305 mm) BELOW BOTTOM OF EMBEDMENTS AND MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6 mm). FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
23. CASING, IF USED, SHALL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBED UPON CASING REMOVAL. DRILLING FLUID, IF USED, SHALL BE FULLY DISPLACED BY CONCRETE AND SHALL NOT BE DETRIMENTAL TO CONCRETE OR SURROUNDING SOIL. CONTAMINATED CONCRETE SHALL BE REMOVED FROM TOP OF FOUNDATION AND REPLACED WITH FRESH CONCRETE.
24. TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISHED. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19 mm X 19 mm) MINIMUM.
25. FOR ANCHOR BLOCK TYPE FOUNDATIONS, FOR GUYED TOWERS, ADDITIONAL CORROSION PROTECTION MAY BE REQUIRED FOR STEEL GUY ANCHORS IN DIRECT CONTACT WITH SOIL. DESIGN ASSUMES PERIODIC INSPECTIONS WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE TO DETERMINE IF ADDITIONAL ANCHOR CORROSION PROTECTION MEASURES MUST BE IMPLEMENTED BASED ON OBSERVED SITE-SPECIFIC CONDITIONS.

FILE NO.

REVISIONS

| REV. | DESCRIPTION | DWN | CHK | APP |
|------|---|-----|-----|-----|
| 2 | REVISED NOTE 7 TO 4500 PSI DATE: 2/10/2014 | JHY | HA | HA |



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ANSI/TIA-222-G
STANDARD FOUNDATION NOTES

| | | |
|-------------|--------------|----------------------|
| DWN: FAD | CHK'D: HA | DATE: Nov/20/2009 |
|-------------|--------------|----------------------|

| | |
|--------------|--------------------|
| ENG'R: HA | SHEET #: 1 OF 1 |
|--------------|--------------------|

| | |
|-------------|--------------|
| PRJ. ENG'R: | PRJ. MANG'R: |
|-------------|--------------|

| | |
|------------------------|-----------|
| DRAWING NO: B090548 | REV: 2 |
|------------------------|-----------|

FOUNDATION AND ANCHOR TOLERANCES

ALL FOUNDATIONS

1. CONCRETE DIMENSIONS: PLUS OR MINUS 1" (25mm)
2. DEPTH OF FOUNDATION: PLUS 3" (76mm) OR MINUS 0"
3. DRILLED FOUNDATIONS OUT OF PLUMB: 1.0°
4. REINFORCING STEEL PLACEMENT: PER A.C.I. 301
5. PROJECTION OF EMBEDMENTS: PLUS OR MINUS 1/8" (3mm)
6. VERTICAL EMBEDMENTS OUT OF PLUMB: 0.5°

ANCHOR BOLTS

7. MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION: 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (51mm)
8. ANCHOR BOLT SPACING: 1/16" (2mm)
9. ANCHOR BOLT CIRCLE ORIENTATION: 0.25°
10. ANCHOR BOLT CIRCLE DIAMETER: PLUS OR MINUS 1/16" (2mm)

SELF-SUPPORTING TOWERS

11. FACE SPREAD DIMENSION CENTER TO CENTER OF ANCHOR BOLT CIRCLES: PLUS OR MINUS 1/16" (2mm) OR 1/16" (2mm) PER 20 FT. (6m) OF FACE SPREAD
12. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS: 1/2" (13mm)

GUYED TOWERS

13. GUY RADIUS: PLUS OR MINUS 5% OF DISTANCE SPECIFIED
14. ANCHOR ELEVATION: PLUS OR MINUS 5% OF GUY RADIUS
15. ANCHOR ALIGNMENT (PERPENDICULAR TO GUY RADIUS): 1.0°
16. ANCHOR ROD SLOPE: PLUS OR MINUS 1.0°
17. ANCHOR ROD ALIGNMENT WITH GUY RADIUS: PLUS OR MINUS 1.0°
18. ANCHOR HEAD OUT OF PLUMB: 1.0°
19. GUY INITIAL TENSION: PLUS OR MINUS 10% OF TENSION SPECIFIED

NOTE: TOLERANCES IN NOTES 13 AND 14 CAN NOT OCCUR SIMULTANEOUSLY.

WARNING!!!

AFTER ANCHOR BOLTS ARE INSTALLED IN CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER. A NUT LOCKING DEVICE MUST BE INSTALLED ON ALL ANCHOR BOLTS.

FILE NO.

REVISIONS

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

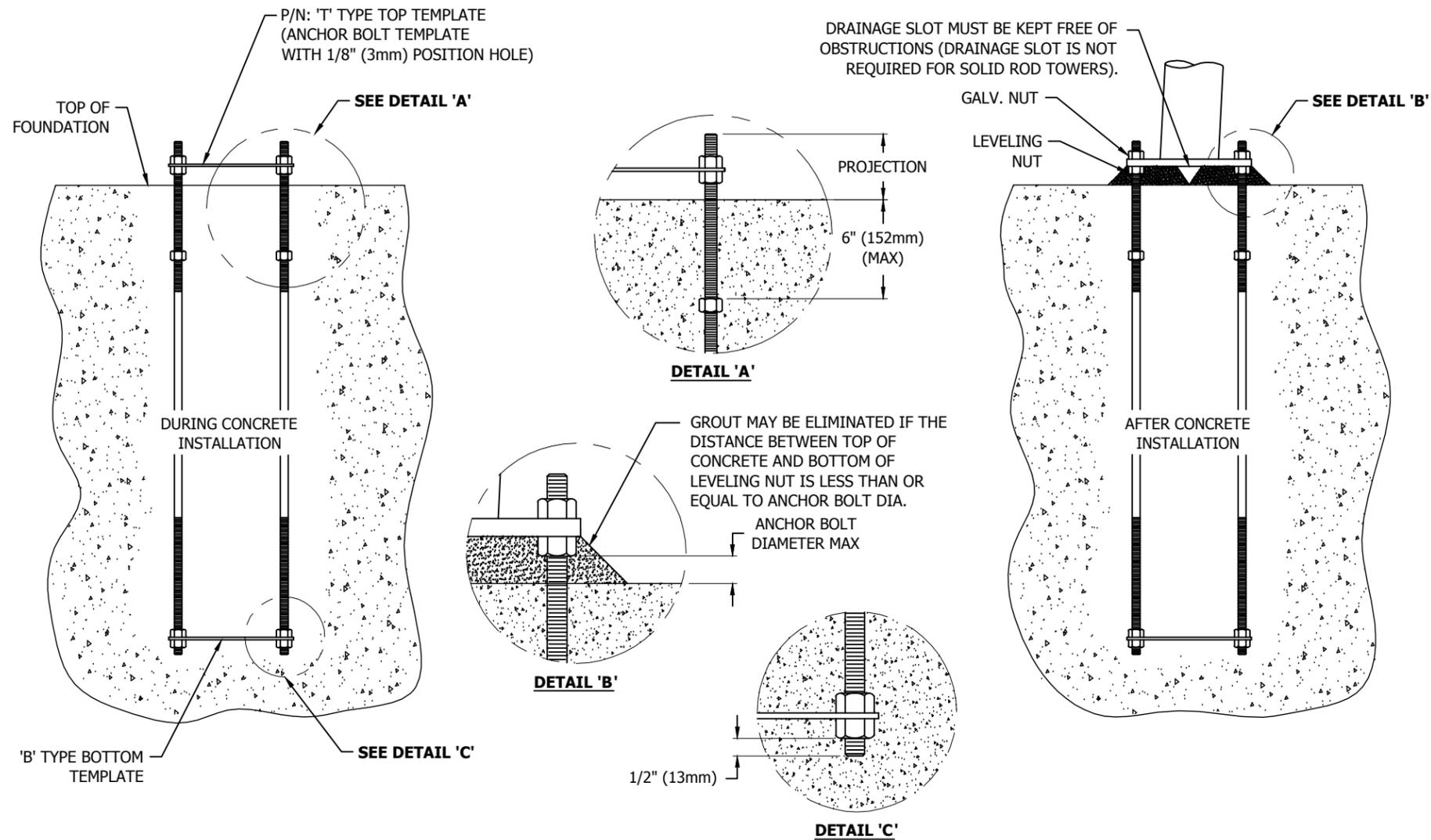


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FOUNDATION & ANCHOR TOLERANCE

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



FILE NO.

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

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

| | | |
|------------------------|--------------------|-------------------|
| DWN: MF | CHK'D: KTL | DATE: 09/07/05 |
| ENG'R: HA | SHEET #: 1 OF 1 | |
| PRJ. ENG'R: | PRJ. MANG'R: | |
| DRAWING NO: B050439 | REV: 4 | |

!! WARNING !!

PRIOR TO PLACING CONCRETE:

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

ANCHOR BOLT INSTALLATION TOLERANCES

- FACE SPREAD DIMENSION CENTER-TO-CENTER OF ANCHOR BOLT CIRCLES - PLUS OR MINUS 1/16" (2mm) OR 1/16"(2mm) PER 20 FT. (6m) OF FACE SPREAD.
- MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS - 1/2" (13mm).
- CONCRETE DIMENSIONS - PLUS OR MINUS 1" (25mm).
- DEPTH OF FOUNDATION - PLUS 3" (76mm) OR MINUS 0".
- DRILLED FOUNDATIONS OUT OF PLUMB - 1.0 DEGREE.
- REINFORCING STEEL PLACEMENT - PER A.C.I. 301.
- PROJECTION OF EMBEDMENTS - PLUS OR MINUS 1/8" (3mm).
- VERTICAL EMBEDMENTS OUT OF PLUMB - 1/2 DEGREE.
- MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (50mm).
- ANCHOR BOLT SPACING - 1/16" (2mm).
- ANCHOR BOLT CIRCLE ORIENTATION - 1/4 DEGREE.
- ANCHOR BOLT CIRCLE DIAMETER - PLUS OR MINUS 1/16" (2mm).

!!! WARNING !!!

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

ANCHOR BOLT TIGHTENING NOTES

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

NOTES

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

| | | | | |
|-----------|--------------------------------------|-----|-----|-----|
| FILE NO. | Standard-SSV | | | |
| REVISIONS | | | | |
| REV. | DESCRIPTION | DWN | CHK | APP |
| 8 | VL341 WAS VL346 DATE: Mar/21/2006 | M.F | JDM | H.A |

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|---------------|--|
| DWG REFERENCE | |
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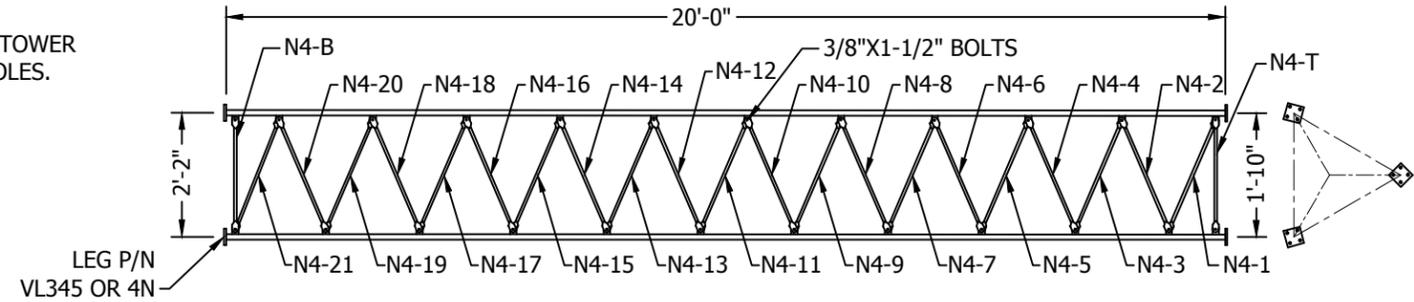
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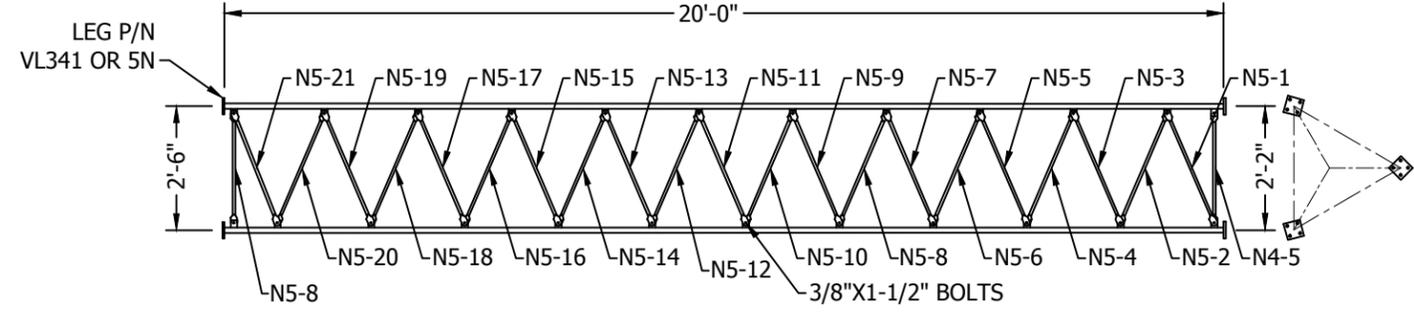
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| | | | |
|---|--------|-------------|--|
| TOWER PROFILE GROUTING & DRAINAGE DETAIL | | | |
| DWN: | CHK'D: | DATE: | |
| O.H | WDU | Mar/03/1972 | |
| ENGR: | | | |
| TWS | | | |
| DRAWING NO: | REV: | | |
| SK720305 | 8 | | |

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

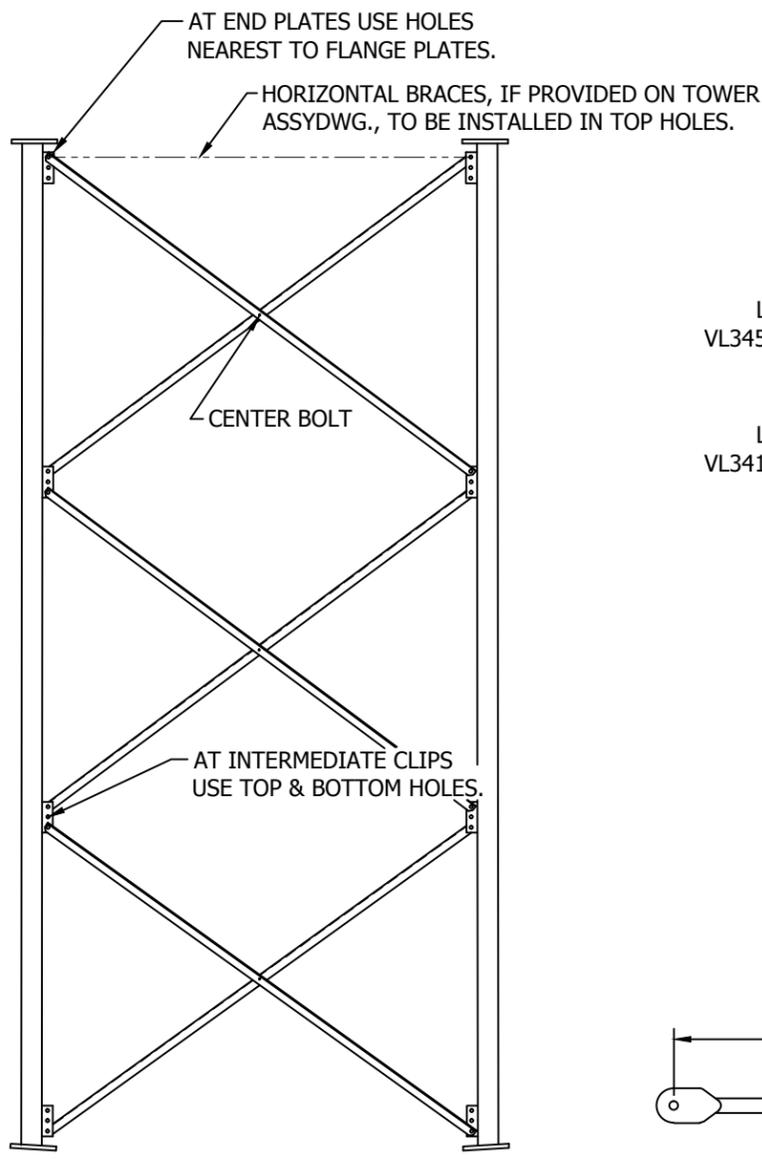


SECTION 4N

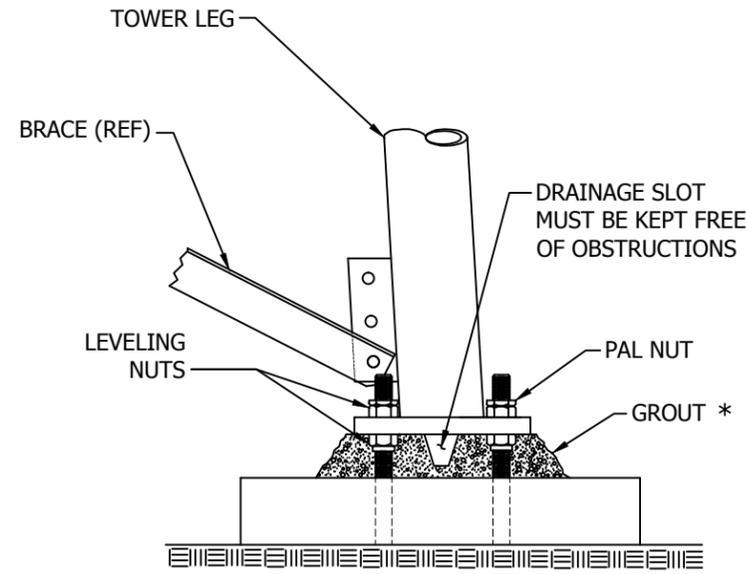
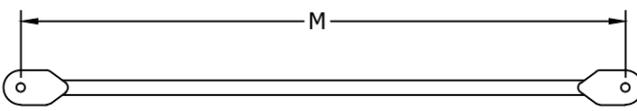


SECTION 5N

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



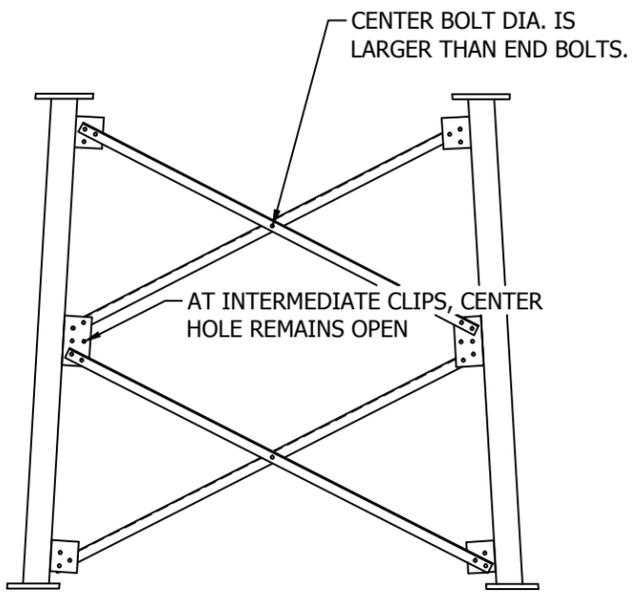
TYPICAL ONE BOLT, BRACE CONNECTION DETAIL



GROUTING AND DRAINAGE DETAILS

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

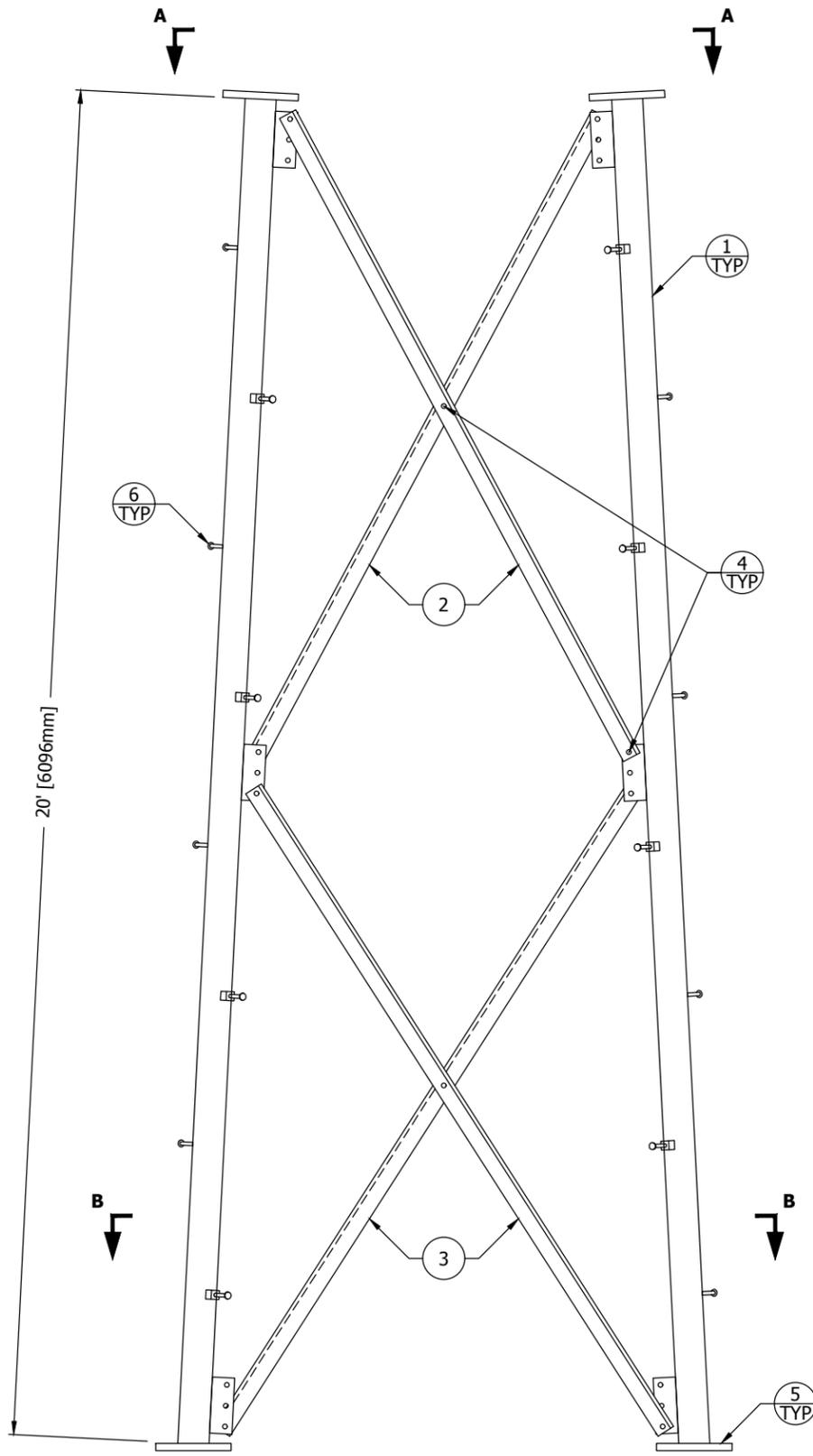
| SECTION 4N | | SECTION 5N | |
|------------|-----------|------------|-----------|
| P/N | M | P/N | M |
| N4-1 | 21 3/8" | N5-1 | 24 3/4" |
| N4-2 | 21 15/16" | N5-2 | 25 1/4" |
| N4-3 | 22 1/16" | N5-3 | 25 7/16" |
| N4-4 | 22 1/4" | N5-4 | 25 5/8" |
| N4-5 | 22 3/8" | N5-5 | 25 3/4" |
| N4-6 | 22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



TYPICAL TWO-BOLT, BRACE CONNECTION DETAIL

Aug/29/2006 11:57:47 AM

1 (Section)



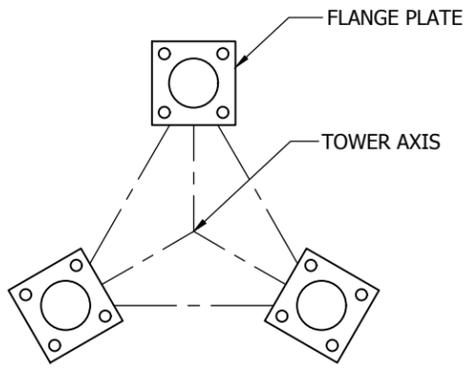
ELEVATION VIEW

| FLANGE | OFFSET | BEVEL | FLANGE PLATE (P/N) | SPREAD |
|--------|------------|------------|------------------------|---------------------|
| TOP | N/A | N/A | 7" X 7" X 1" (P/N: 7F) | 14'-7 7/8" [4467mm] |
| BOTTOM | 1/4" [6mm] | 3 1/3° STD | 7" X 7" X 1" (P/N: 7H) | 16'-8 3/8" [5090mm] |

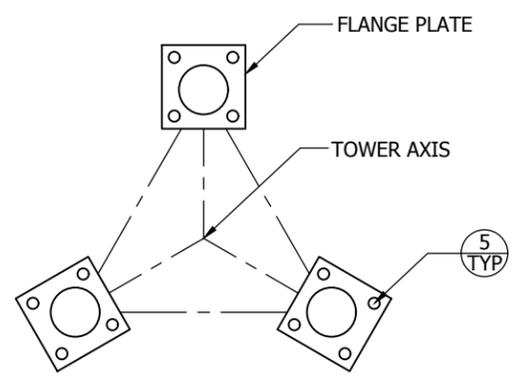
| SECTION ASSEMBLY P/N: 12N18 | | | | |
|-----------------------------|----------|-----|--------------------------------|----------------|
| BILL OF MATERIAL | | | | |
| ITEM | PART NO. | QTY | DESCRIPTION | |
| 1 | VL563 | 3 | LEG SSV 12-16N 3.5EH 20'77OFF | [PIPE 89mm EH] |
| 2 | N121 | 6 | BRACE DS SS12T L3X.19X17.58' | [L 76x76x5] |
| 3 | N122 | 6 | BRACE DS SS12T L3X.19X18.31' | [L 76x76x5] |
| 4 | 210029GA | 30 | BOLT ASSY 5/8 X 1-1/2 HSB A325 | [M16x38] |
| 5 | 110163 | 12 | NUT 7/8 (JAM - PAL) HDG | [M22] |
| 6 | 5/8STEP | 48 | BOLT ASSY STEP 5/8X7 W/DBN | [M16x178] |

GENERAL NOTES:

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



VIEW A-A



VIEW B-B

| FILE NO. | | | | |
|------------------|-------------|-----|-----|-----|
| REVISIONS | | | | |
| REV | DESCRIPTION | DWN | CHK | APP |
| 3 | REDRAWN | JHY | CEJ | HA |
| DATE: 11/13/2012 | | | | |

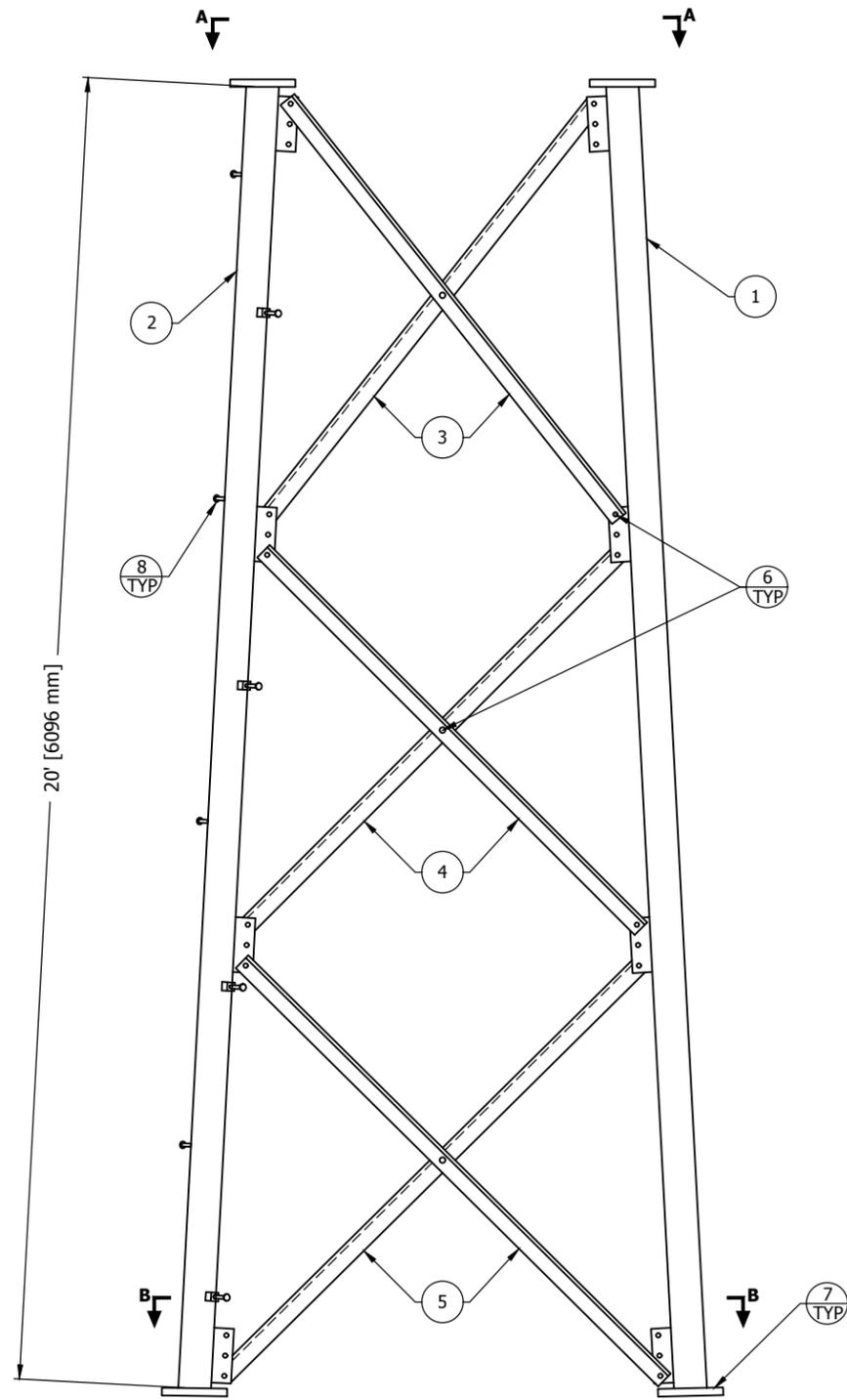


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**SECTION ASSEMBLY
DETAILS FOR SSV 12N18**

| | | |
|---------------------|-----------------|------------------|
| DWN: AED | CHK'D: JHD | DATE: Feb/5/1979 |
| ENG'R: TS | SHEET #: 1 OF 1 | |
| PRJ. ENG'R: | PRJ. MANG'R: | |
| DRAWING NO: A790023 | REV: 3 | |



ELEVATION VIEW

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

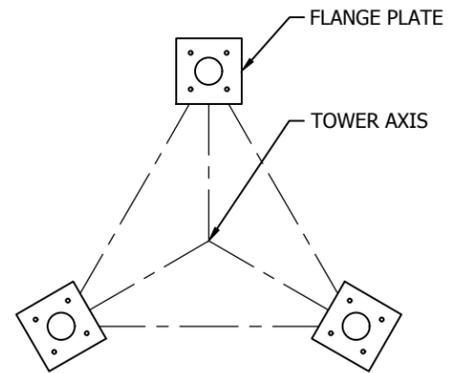
SECTION ASSEMBLY P/N: 11N

BILL OF MATERIAL

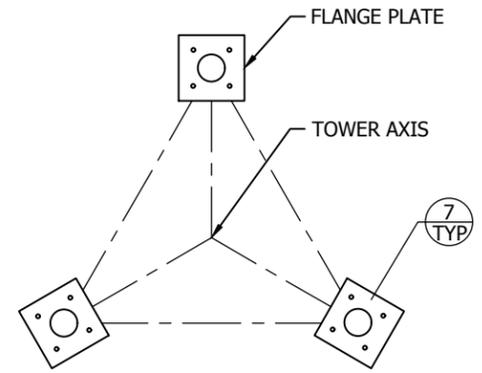
| ITEM | PART NO. | QTY | DESCRIPTION | |
|------|----------|-----|--------------------------------|-----------------|
| 1 | VL352 | 2 | LEG SSV 9-11N 3STD 20' 6 7 OFF | [PIPE 76MM STD] |
| 2 | VL352S | 1 | LEG SSV 9-11N 3STD 20' 6 7 OFF | [PIPE 76MM STD] |
| 3 | N111 | 6 | BRACE DS SS11T L2.5X.19X14.04' | [L 64X64X5] |
| 4 | N112 | 6 | BRACE DS SS11T L2.5X.19X14.64' | [L 64X64X5] |
| 5 | N113 | 6 | BRACE DS SS11T L2.5X.19X15.16' | [L 64X64X5] |
| 6 | 210017GA | 45 | BOLT ASSY 1/2 X 1-1/4 HSB A325 | [M13X32] |
| 7 | 210063GA | 12 | BOLT ASSY 7/8 X 3-1/2 HSB A325 | [M22X89] |
| 8 | 5/8STEP | 16 | BOLT ASSY STEP 5/8X7 W/DBN | [M16X178] |

GENERAL NOTES:

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



VIEW A-A



SECTION B-B

| FILE NO. | | | | |
|----------------|--------------------|-----|-----|-----|
| REVISIONS | | | | |
| REV | DESCRIPTION | DWN | CHK | APP |
| 3 | REDRAWN IN AUTOCAD | CEJ | KTL | HA |
| DATE: 11/08/11 | | | | |

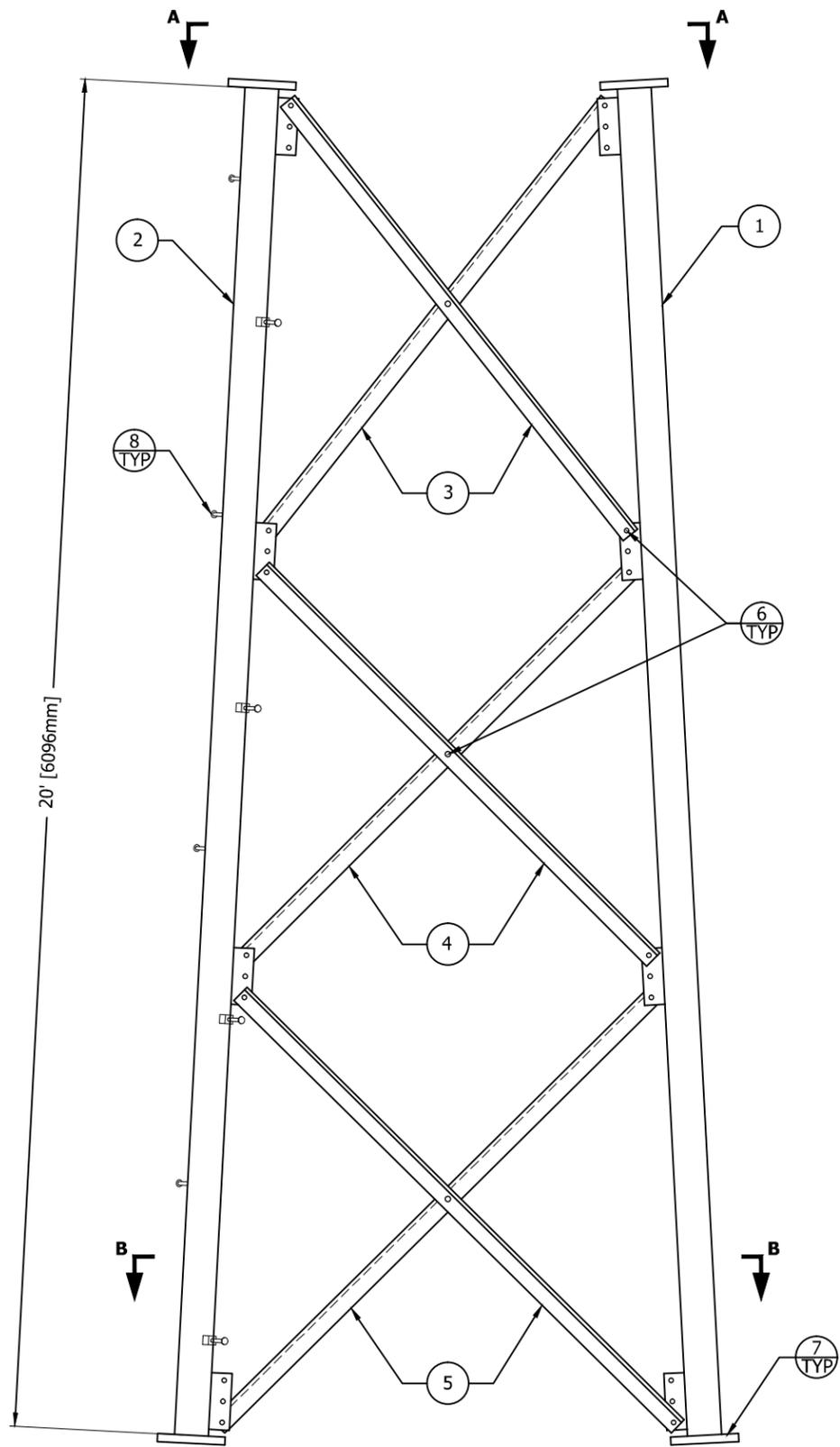


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**SECTION ASSEMBLY
DETAILS FOR SSV 11N**

| | | | | | |
|-------------|-----|----------|-----|--------|----------|
| DWN: | AED | CHK'D: | JHD | DATE: | 12/11/78 |
| ENG'R: | TS | SHEET #: | | 1 OF 1 | |
| DRAWING NO: | | | | | A780447 |
| REV: | | | | | 3 |

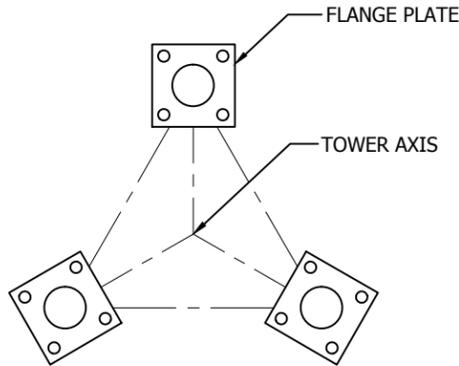


ELEVATION VIEW

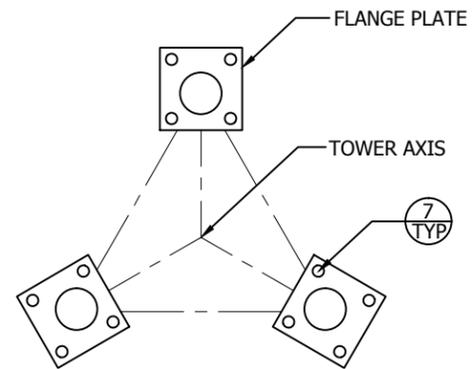
| SECTION ASSEMBLY P/N: 10NH | | | | |
|----------------------------|----------|-----|--------------------------------|----------------|
| BILL OF MATERIAL | | | | |
| ITEM | PART NO. | QTY | DESCRIPTION | |
| 1 | VL351 | 2 | LEG SSV 9-11N 2.5EH 20' 5 6OF | [PIPE 64mm EH] |
| 2 | VL351S | 1 | LEG SSV 9-11N 2.5EH 20' 5 6OF | [PIPE 64mm EH] |
| 3 | N101 | 6 | BRACE DS SS10T L2X.13X12.29' | [L 51x51x3] |
| 4 | N102 | 6 | BRACE DS SS10T L2X.13X12.86' | [L 51x51x3] |
| 5 | N103 | 6 | BRACE DS SS10T L2X.13X13.35' | [L 51x51x3] |
| 6 | 210017GA | 45 | BOLT ASSY 1/2 X 1-1/4 HSB A325 | [M13x32] |
| 7 | 210050GA | 12 | BOLT ASSY 3/4 X 2-3/4 HSB A325 | [M19x70] |
| 8 | 5/8STEP | 16 | BOLT ASSY STEP 5/8X7 W/DBN | [M16x178] |

GENERAL NOTES:

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



VIEW A-A



VIEW B-B

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

FILE NO.

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



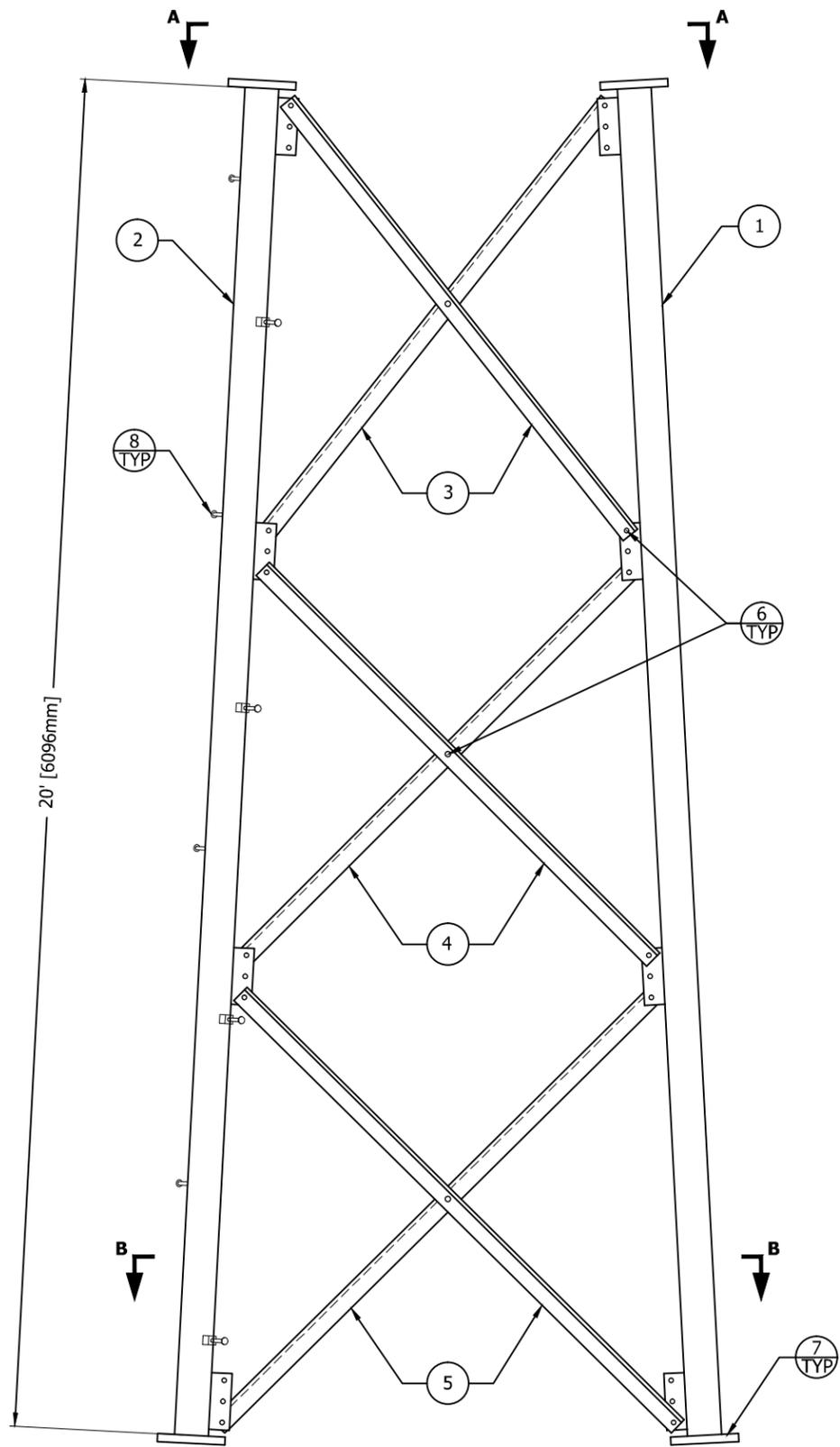
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**SECTION ASSEMBLY
DETAILS FOR SSV 10NH**

| | | |
|---------------|--------------------|---------------------|
| DWN: AED | CHK'D: HSK | DATE: Nov/2/1978 |
| ENG'R: TWS | SHEET #: 1 OF 1 | |
| PRJ. ENG'R: | PRJ. MANG'R: | |

DRAWING NO: **A780386** REV: **2**

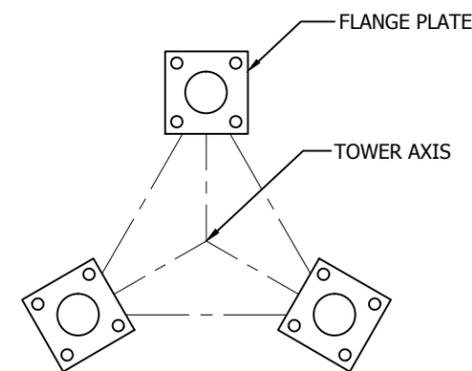


ELEVATION VIEW

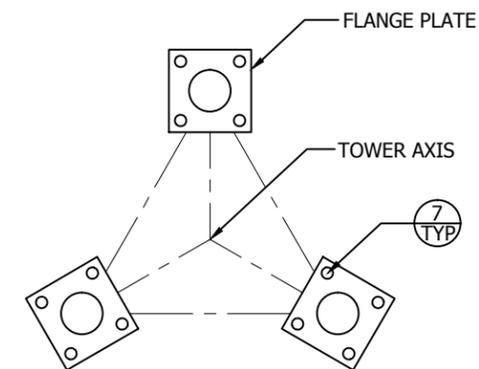
| SECTION ASSEMBLY P/N: 9NH | | | | |
|---------------------------|----------|-----|--------------------------------|----------------|
| BILL OF MATERIAL | | | | |
| ITEM | PART NO. | QTY | DESCRIPTION | |
| 1 | VL350 | 2 | LEG SSV 9-11N 2.5EH 20' 5 5 S9 | [PIPE 64mm EH] |
| 2 | VL350S | 1 | LEG SSV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

GENERAL NOTES:

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



VIEW A-A



VIEW B-B

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

FILE NO.

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



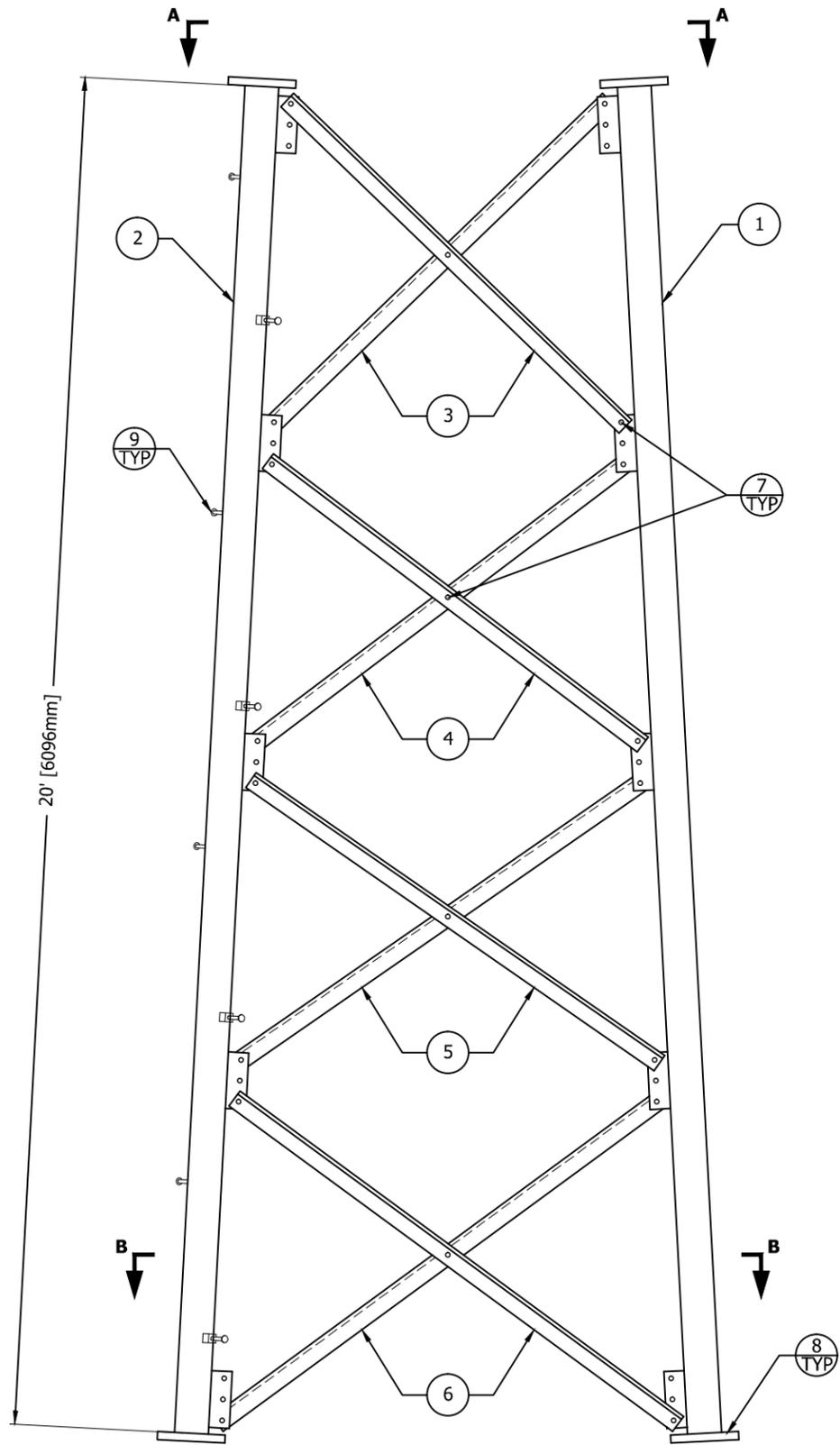
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**SECTION ASSEMBLY
DETAILS FOR SSV 9NH**

| | | |
|---------------|--------------------|----------------------|
| DWN: AED | CHK'D: WDU | DATE: Nov/11/1978 |
| ENG'R: TWS | SHEET #: 1 OF 1 | |
| PRJ. ENG'R: | PRJ. MANG'R: | |

| | |
|------------------------|-----------|
| DRAWING NO: A780318 | REV: 4 |
|------------------------|-----------|

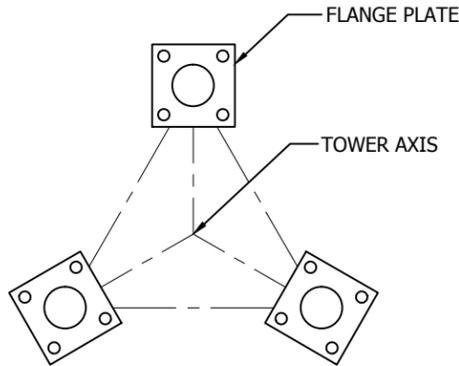


ELEVATION VIEW

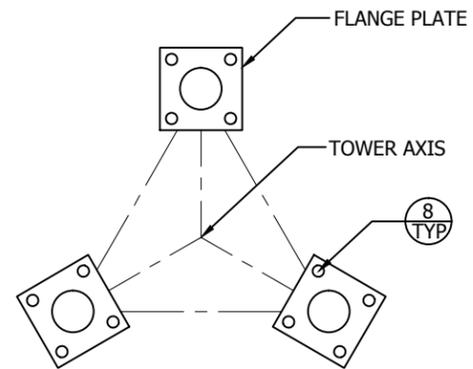
| SECTION ASSEMBLY P/N: 8N | | | | |
|--------------------------|----------|-----|--------------------------------|-----------------|
| BILL OF MATERIAL | | | | |
| ITEM | PART NO. | QTY | DESCRIPTION | |
| 1 | VL349 | 2 | LEG SSV 8N 2.5STD 20' 5 5 | [PIPE 64mm STD] |
| 2 | VL349S | 1 | LEG SSV 8N 2.5STD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

GENERAL NOTES:

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



VIEW A-A



VIEW B-B

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

FILE NO.

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



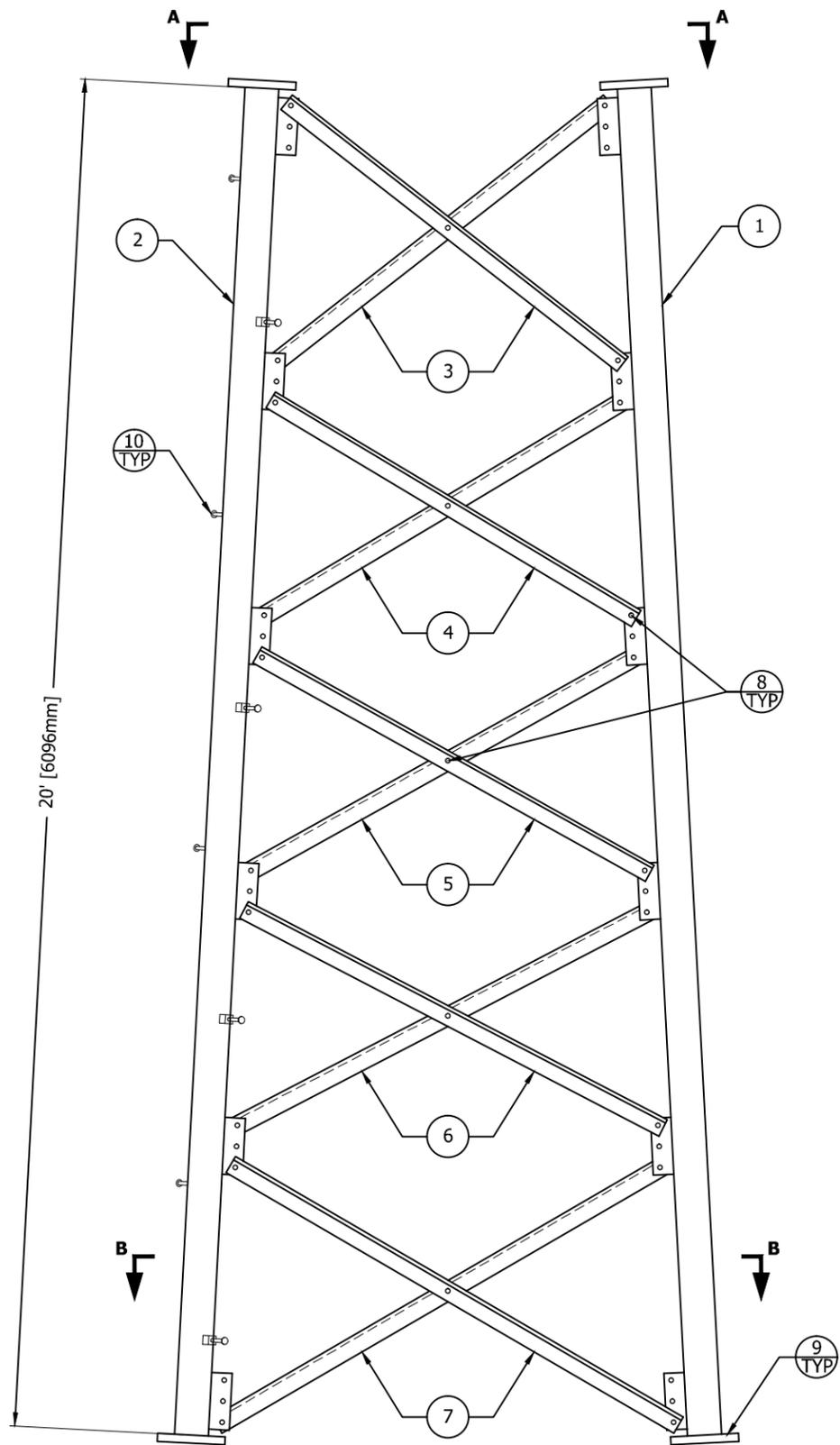
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**SECTION ASSEMBLY
DETAILS FOR SSV 8N**

| | | |
|-------------|-----------------|-------------------|
| DWN: AED | CHK'D: MDI | DATE: Oct/28/1978 |
| ENG'R: TWS | SHEET #: 1 OF 1 | |
| PRJ. ENG'R: | PRJ. MANG'R: | |

| | |
|---------------------|--------|
| DRAWING NO: A780252 | REV: 3 |
|---------------------|--------|

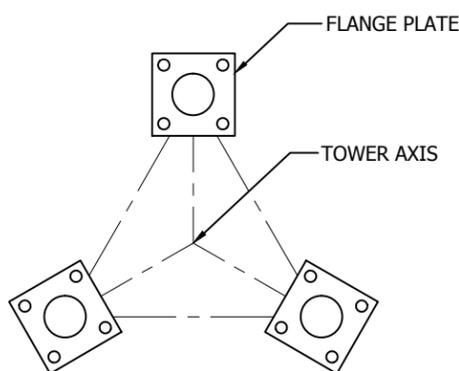


ELEVATION VIEW

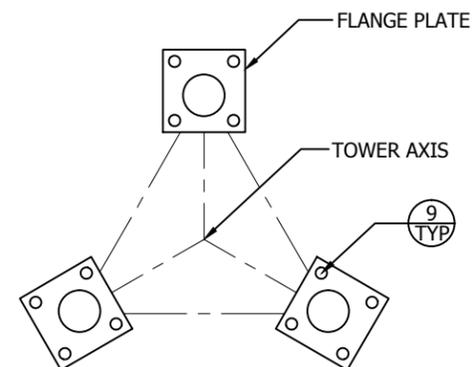
| SECTION ASSEMBLY P/N: 7N | | | | |
|--------------------------|----------|-----|--------------------------------|-----------------|
| BILL OF MATERIAL | | | | |
| ITEM | PART NO. | QTY | DESCRIPTION | |
| 1 | VL348 | 2 | LEG SSV 6-7N 2STD 20' 5 5OFF | [PIPE 51mm STD] |
| 2 | VL348S | 1 | LEG SSV 6-7N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

GENERAL NOTES:

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- FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
- DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
- NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



VIEW A-A



VIEW B-B

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

FILE NO.

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



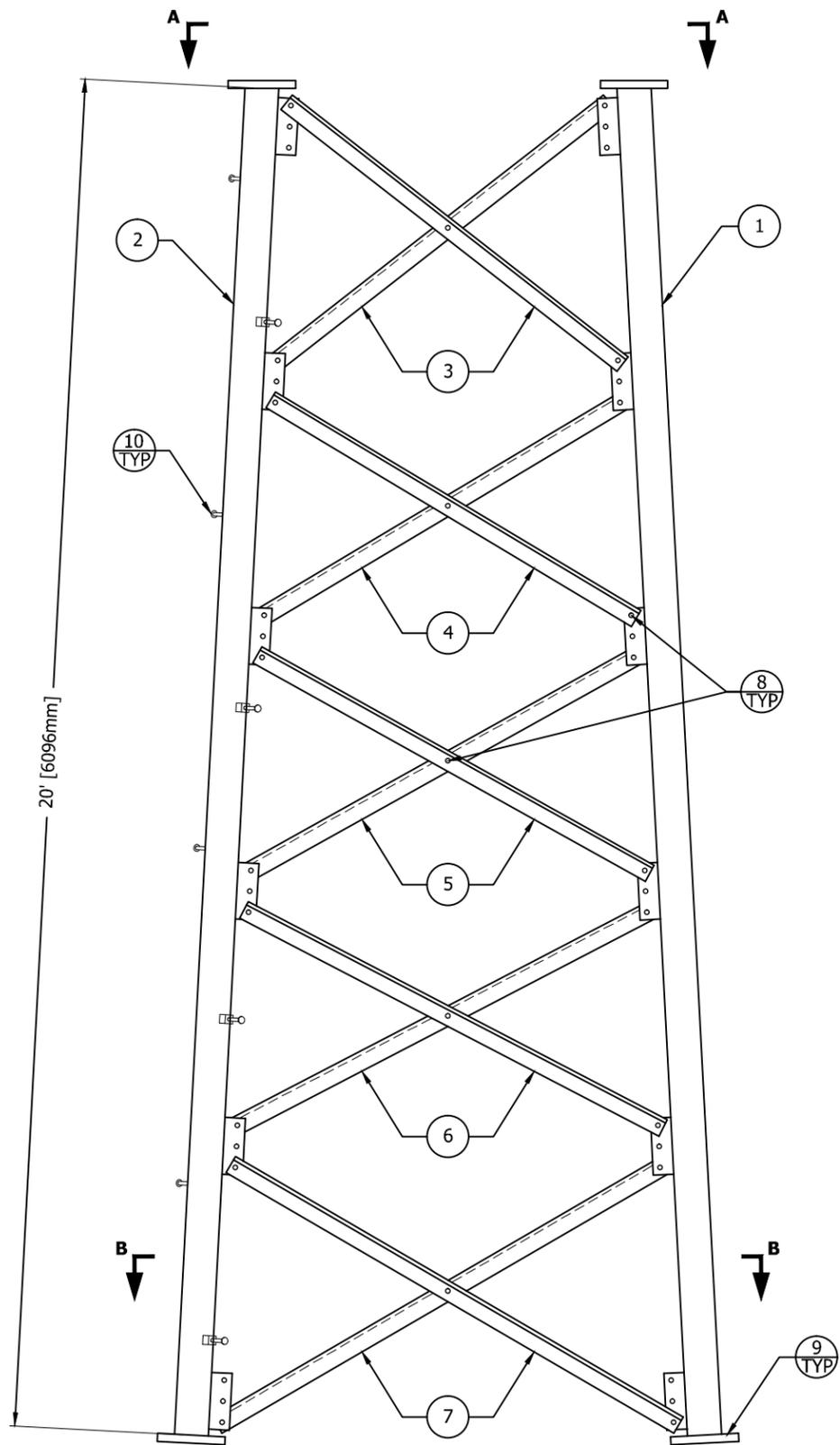
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**SECTION ASSEMBLY
DETAILS FOR SSV 7N**

| | | |
|-------------|-----------------|------------------|
| DWN: AED | CHK'D: MWD | DATE: Sep/9/1978 |
| ENG'R: T.S | SHEET #: 1 OF 1 | |
| PRJ. ENG'R: | PRJ. MANG'R: | |

| | |
|---------------------|--------|
| DRAWING NO: A780139 | REV: 3 |
|---------------------|--------|

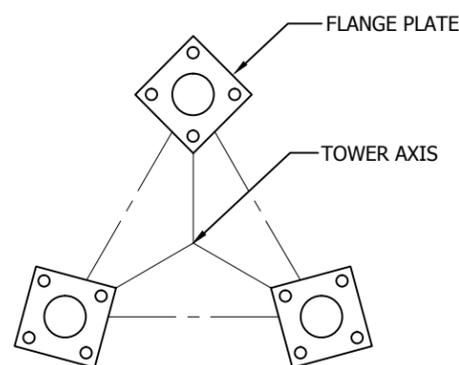


ELEVATION VIEW

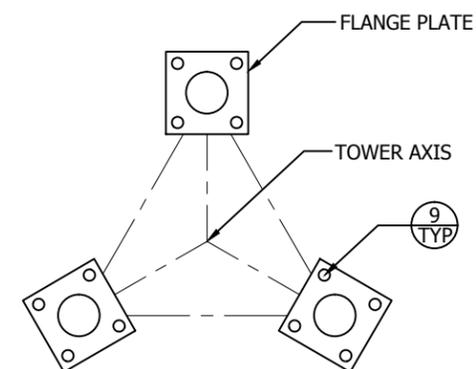
| SECTION ASSEMBLY P/N: 6N | | | | |
|--------------------------|----------|-----|--------------------------------|-----------------|
| BILL OF MATERIAL | | | | |
| ITEM | PART NO. | QTY | DESCRIPTION | |
| 1 | VL347 | 2 | LEG SSV 6N 2STD 20' 45BEV 5 | [PIPE 51mm STD] |
| 2 | VL347S | 1 | LEG SSV 6N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

GENERAL NOTES:

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



VIEW A-A



VIEW B-B

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

FILE NO.

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



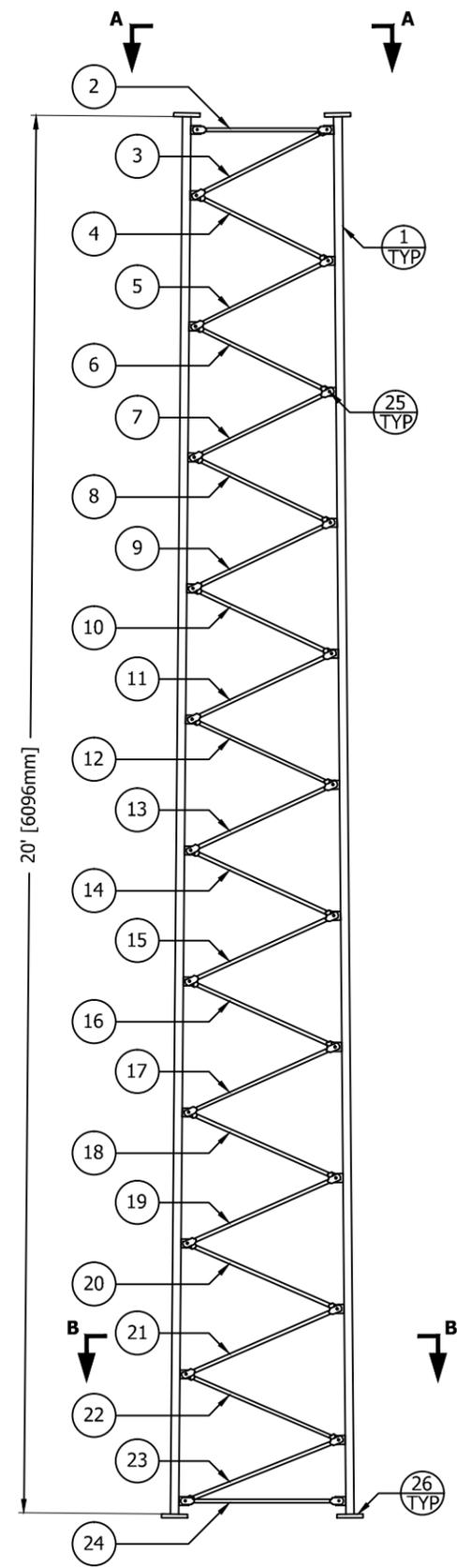
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**SECTION ASSEMBLY
DETAILS FOR SSV 6N**

| | | |
|---------------|--------------------|----------------------|
| DWN: AED | CHK'D: WDU | DATE: Oct/18/1978 |
| ENG'R: TWS | SHEET #: 1 OF 1 | |
| PRJ. ENG'R: | PRJ. MANG'R: | |

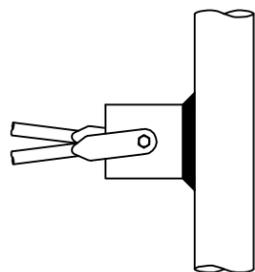
| | |
|------------------------|-----------|
| DRAWING NO: A780200 | REV: 6 |
|------------------------|-----------|



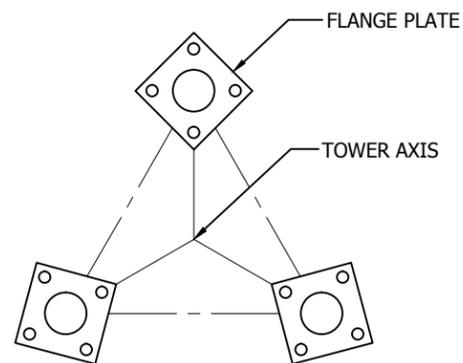
ELEVATION VIEW

GENERAL NOTES:

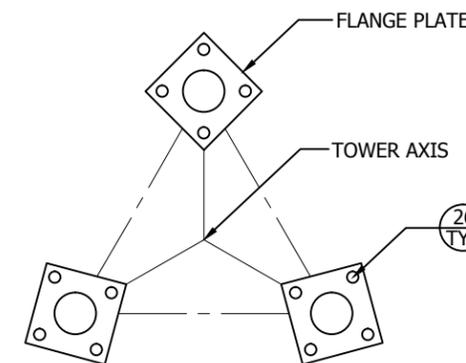
1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
2. FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
3. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
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BRACING DETAIL



VIEW A-A



VIEW B-B

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

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

FILE NO.

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

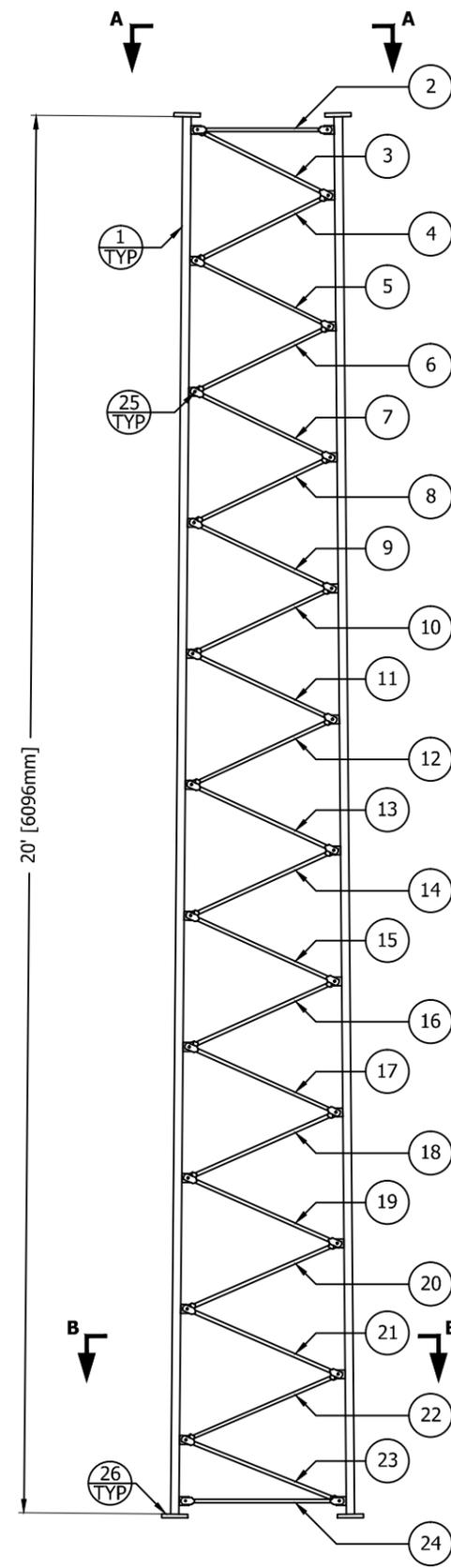


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**SECTION ASSEMBLY
DETAILS FOR SSV 5N**

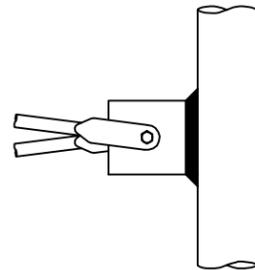
| | | |
|---------------------|-----------------|-------------------|
| DWN: AED | CHK'D: JD | DATE: Mar/22/1979 |
| ENG'R: TWS | SHEET #: 1 OF 1 | |
| PRJ. ENG'R: | PRJ. MANG'R: | |
| DRAWING NO: A790119 | REV: 5 | |



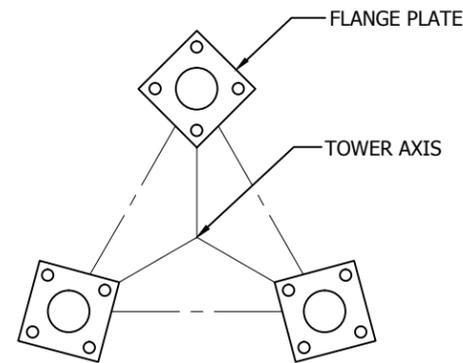
ELEVATION VIEW

GENERAL NOTES:

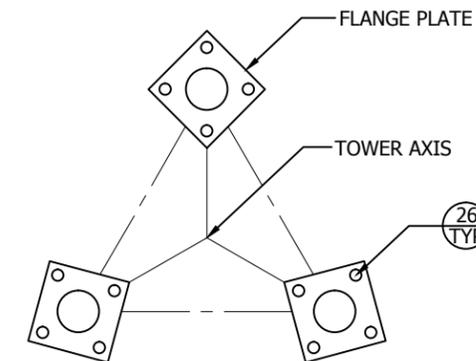
1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
2. FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
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BRACING DETAIL



VIEW A-A



VIEW B-B

SECTION ASSEMBLY P/N: 4N

BILL OF MATERIAL

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

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

FILE NO.

REVISIONS

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



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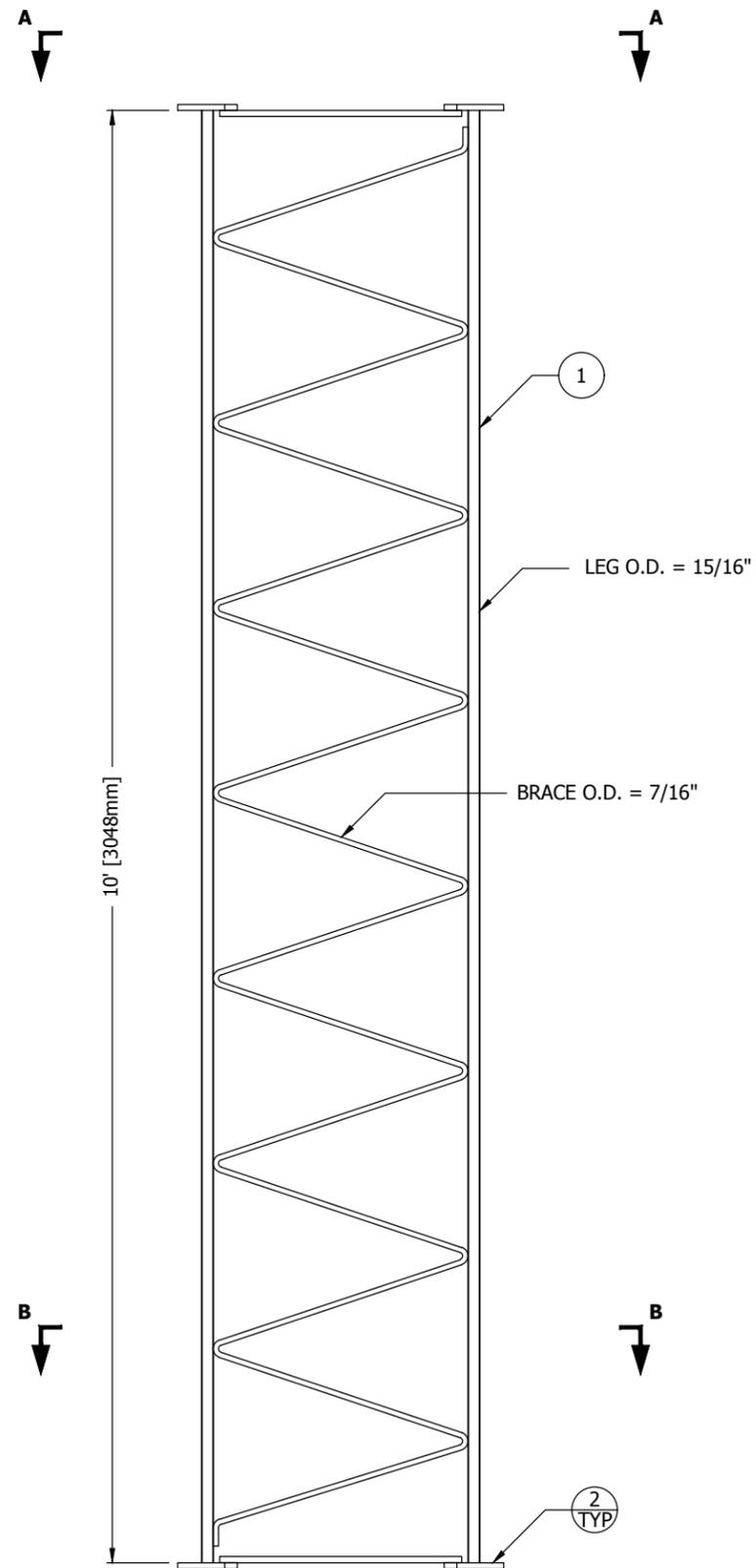
**SECTION ASSEMBLY
DETAILS FOR SSV 4N**

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

ENG'R: TWS SHEET #: 1 OF 1

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

DRAWING NO: A790110 REV: 4

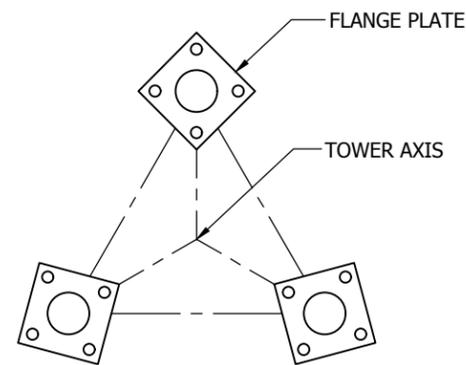


ELEVATION VIEW

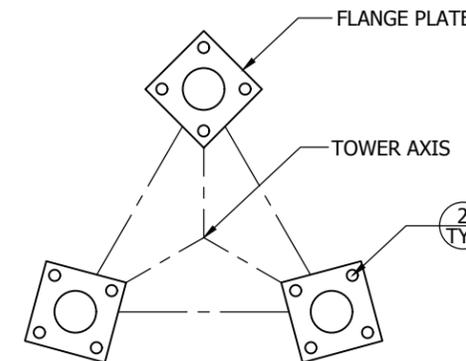
| SECTION ASSEMBLY P/N: 3WNB | | | | |
|----------------------------|----------|-----|-----------------------------|----------|
| BILL OF MATERIAL | | | | |
| ITEM | PART NO. | QTY | DESCRIPTION | |
| 1 | VS8 | 1 | SECTION 10' 3WNB STR WELDED | |
| 2 | 210020GA | 12 | BOLT ASSY 1/2 X 2 HSB A325 | [M13x51] |

GENERAL NOTES:

1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
2. FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
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VIEW A-A



VIEW B-B

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

| REVISIONS | | | | |
|-----------|-----------------------------|-----|-----|-----|
| REV | DESCRIPTION | DWN | CHK | APP |
| 3 | REDRAWN DATE: 11/13/2012 | JHY | CEJ | HA |



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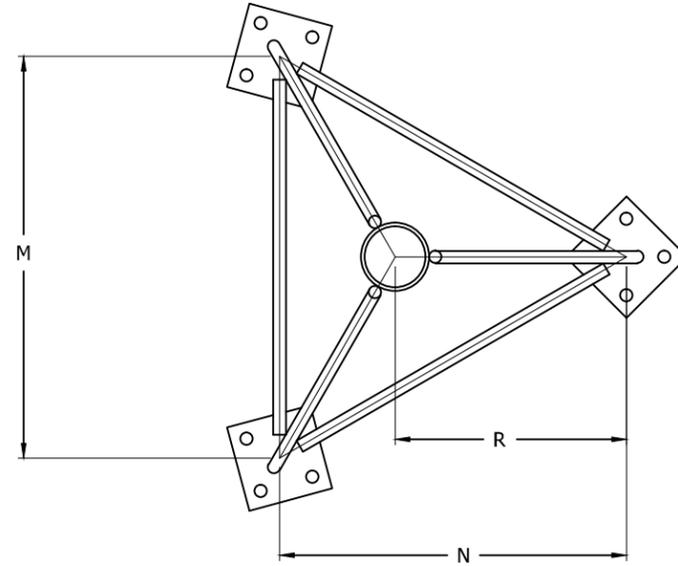
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**SECTION ASSEMBLY
DETAILS FOR SSV 3WNB**

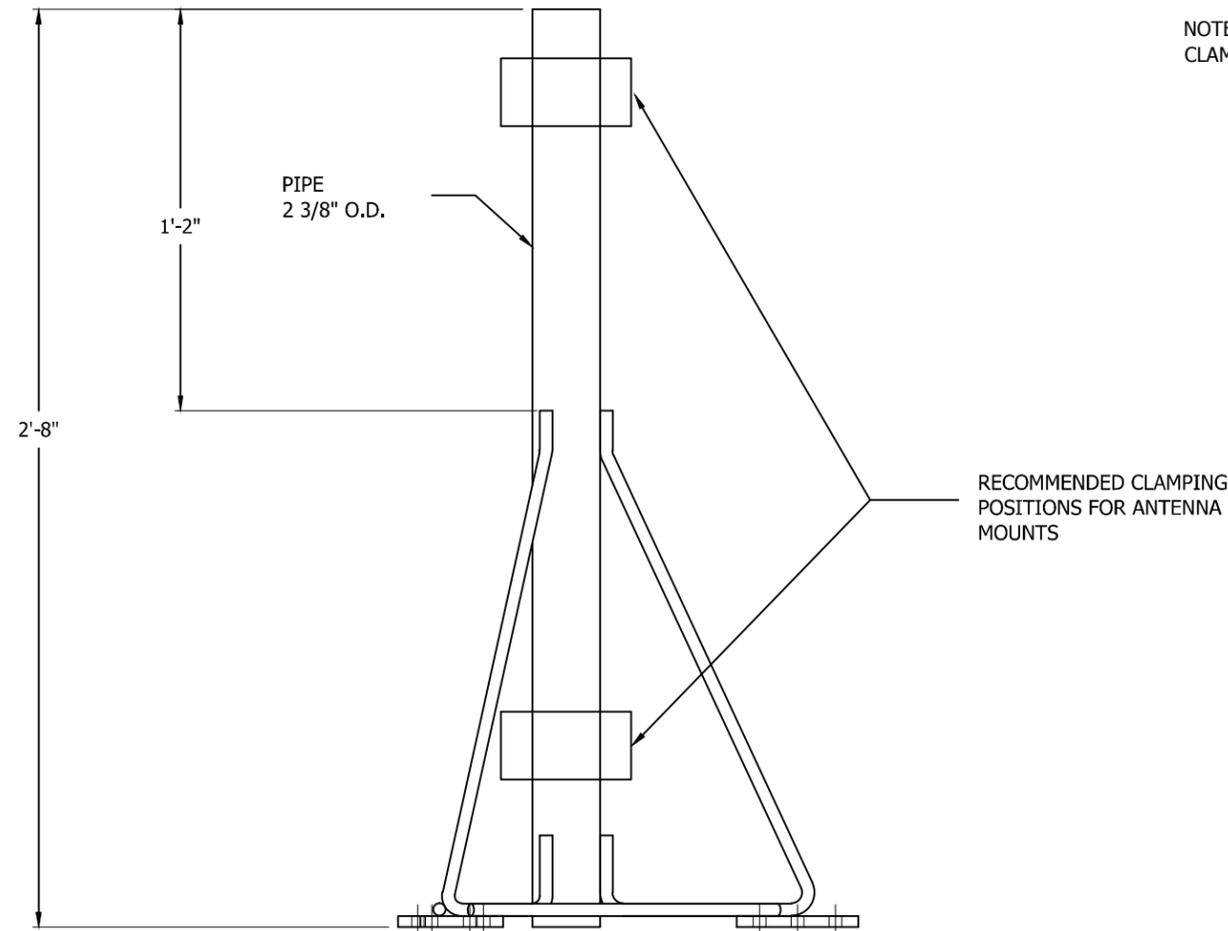
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|------------------------|--------------------|----------------------|
| DWN: AED | CHK'D: MWD | DATE: Mar/14/1979 |
| ENG'R: TS | SHEET #: 1 OF 1 | |
| PRJ. ENG'R: | PRJ. MANG'R: | |
| DRAWING NO: A790099 | REV: 3 | |

TAPERED TOP ASSY BILL OF MATERIALS DETAIL

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



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



FILE NO.

REVISIONS

| REV | DESCRIPTION | DWN | CHK | APP |
|-----|--|-----|-----|-----|
| 12 | UPDATED TO NEW STANDARDS DATE: 07/29/11 | JEC | KTL | DWG |



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TAPERED TOP ASSEMBLY

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

| | |
|-----------|-----------------|
| ENG'R: CW | SHEET #: 1 OF 1 |
|-----------|-----------------|

| | |
|----------------------|---------|
| DRAWING NO: SK670407 | REV: 12 |
|----------------------|---------|

FILE NO.

REVISIONS

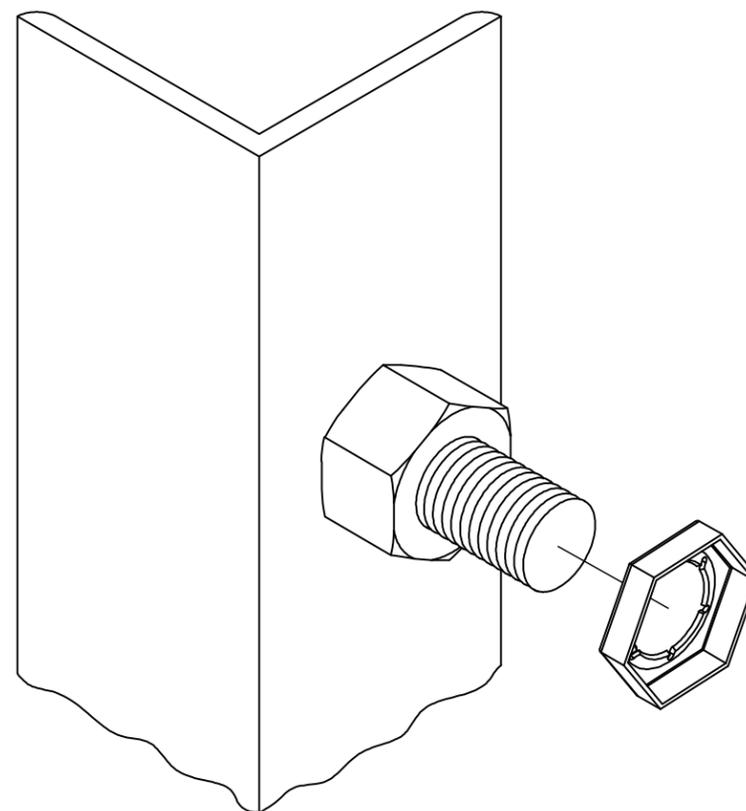
| REV | DESCRIPTION | DWN | CHK | APP |
|-----|------------------------------------|-----|-----|-----|
| 7 | CHANGE NOTATION. DATE: 01/11/12 | JEC | JDM | HA |

ASSEMBLY BOLT INSTALLATION

1. UNLESS OTHERWISE SPECIFIED, ASSEMBLY BOLTS AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION (MEMBERS IN FIRM CONTACT) AND MUST INCLUDE A NUT LOCKING DEVICE. NO MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED. WHEN LOCK WASHERS ARE PROVIDED AS A NUT LOCKING DEVICE, REPLACE ANY DAMAGED WASHERS DUE TO OVER TIGHTENING.
2. WASHERS ARE TO BE INSTALLED OVER SLOTTED HOLES.

PAL NUT INSTALLATION

1. PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT (SEE PICTURE). PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS OR LOCK WASHERS ARE PROVIDED.



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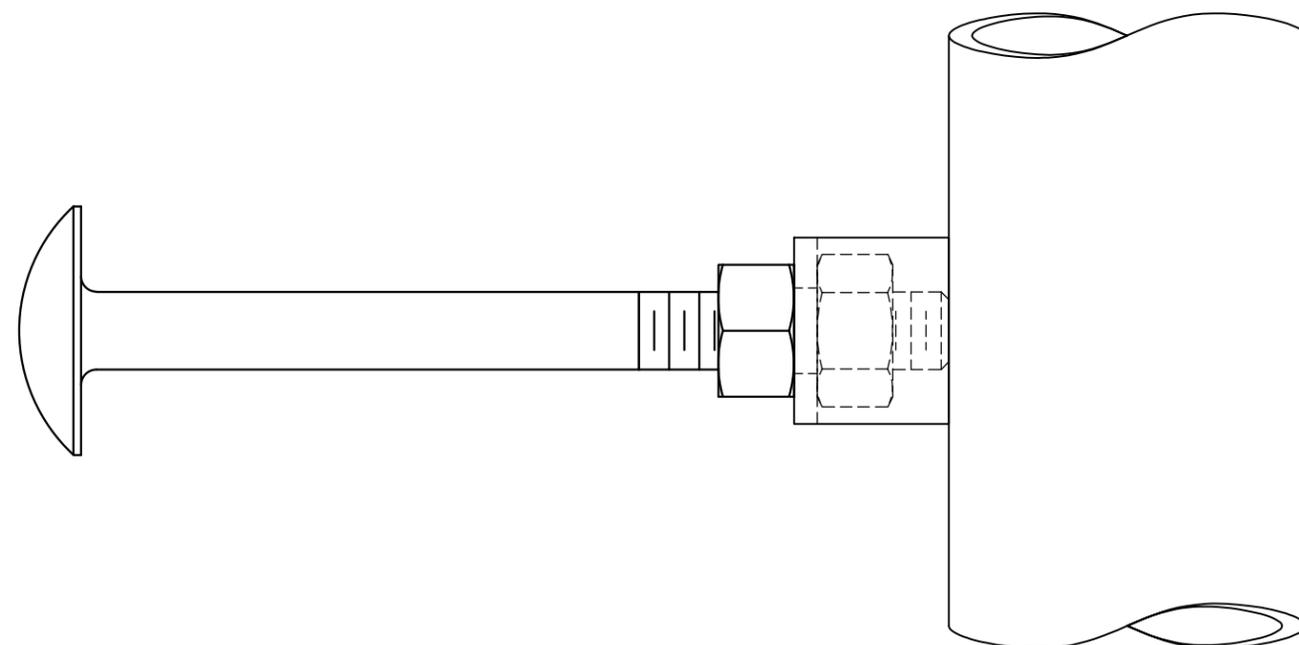
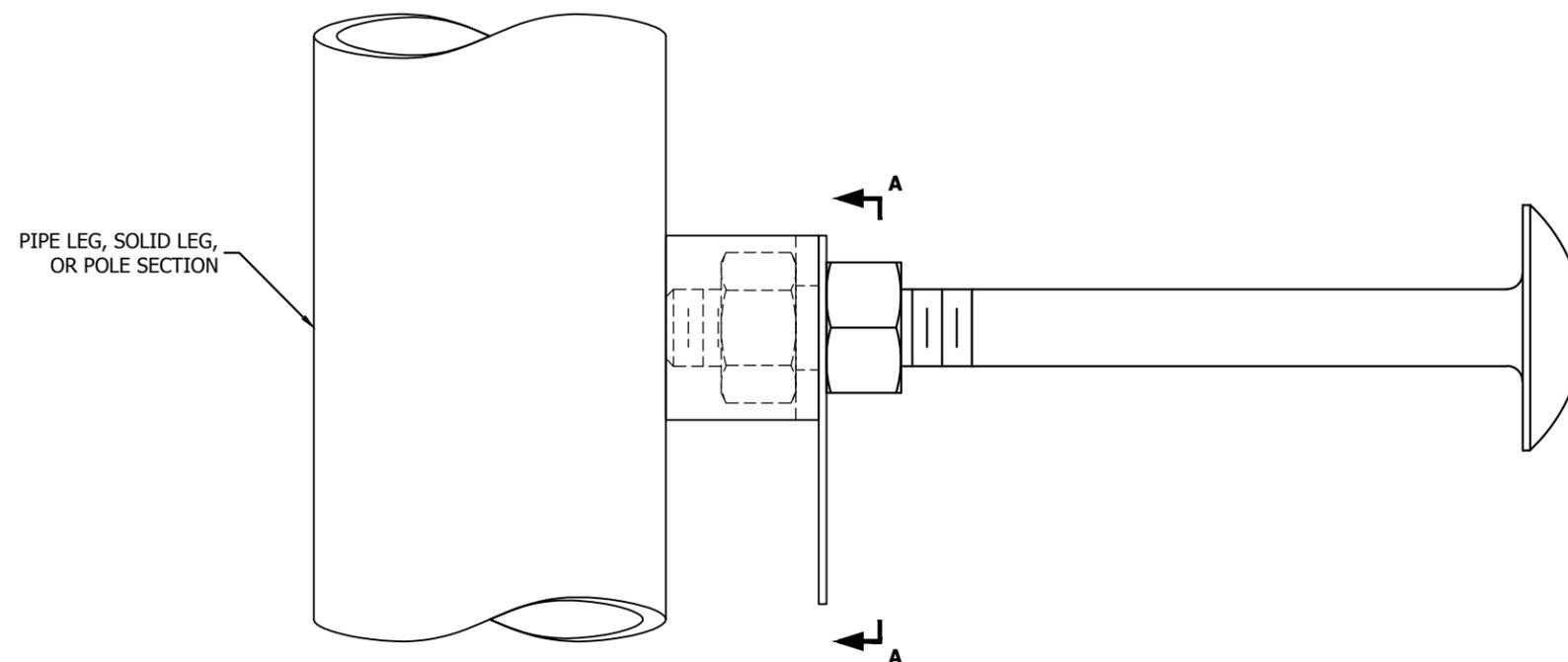
BOLT ASSEMBLY INSTALLATION

| | | | | | | |
|-------------|---------|----------|--------|-------|----------|---|
| DWN: | OH | CHK'D: | GHB | DATE: | 07/05/79 | |
| ENG'R: | TWS | SHEET #: | 1 OF 1 | | | |
| DRAWING NO: | A790135 | | | | REV: | 7 |

FILE NO.

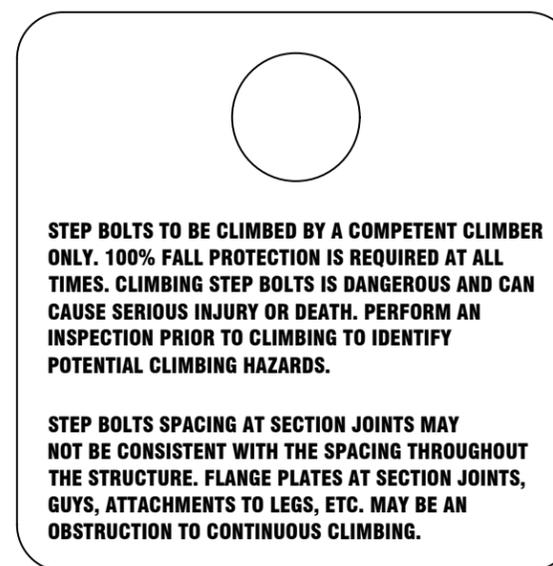
REVISIONS

| REV | DESCRIPTION | DWN | CHK | APP |
|-----|---|-----|-----|-----|
| 6 | UPDATED TITLE BLOCK DATE: 11/23/2015 | JHY | JDM | HA |



NOTE:

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



VIEW A-A
STEP BOLT CLIMBING WARNING SIGN
 (INSTALL WARNING SIGN IN BOTTOM 5' OF STRUCTURE)



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STEP BOLT INSTALLATION DETAIL

| | | |
|------------------------|--------------------|---------------------|
| DWN: OH | CHK'D: TWS | DATE: 04/16/1974 |
| ENG'R: CW | SHEET #: 1 OF 1 | |
| PRJ. ENG'R: | PRJ. MANG'R: | |
| DRAWING NO: B651264 | REV: 6 | |