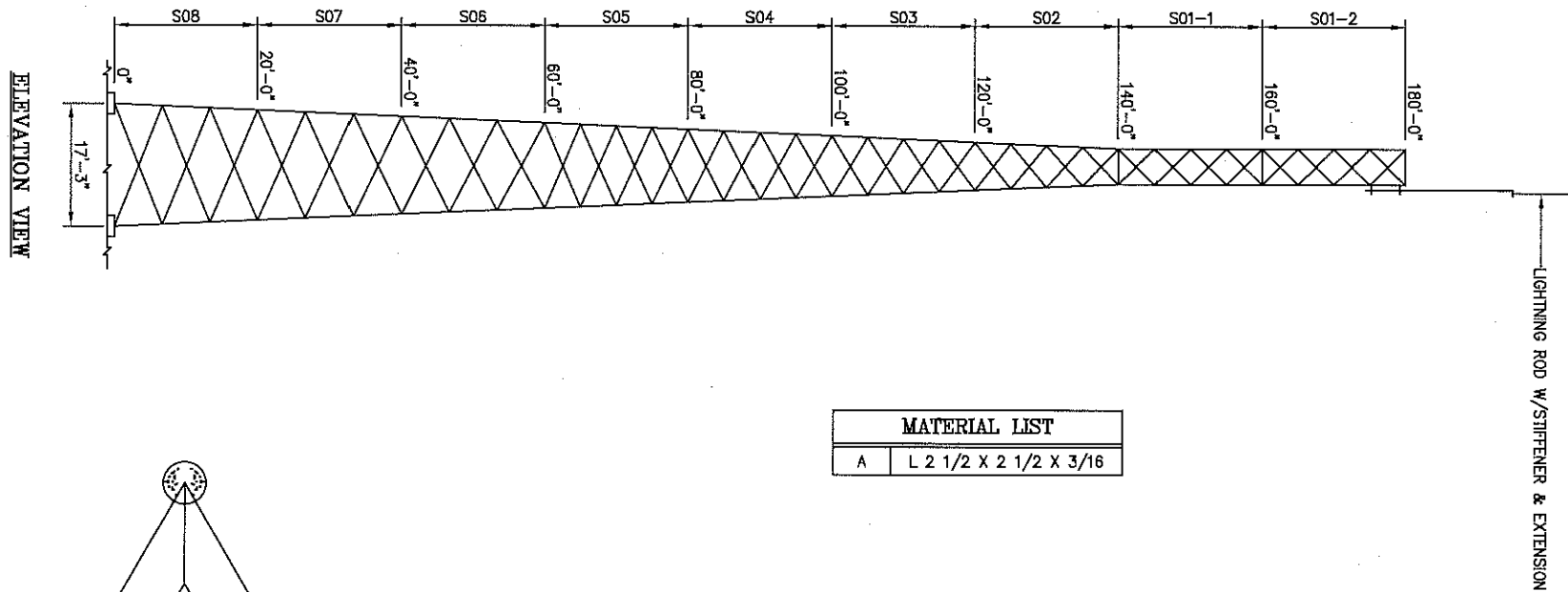
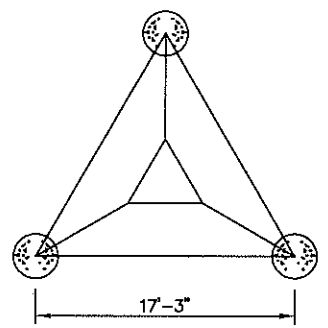




LEGS	4.5 S.R.	4.25 S.R.	3.75 S.R.	3.5 S.R.	3.25 S.R.	3.0 S.R.	2.5 S.R.	2.0 S.R.	
DIAGONALS	L 3 X 3 X 1/4	L 3 X 3 X 3/16	A	L 2 X 2 X 1/4	L 2 X 2 X 3/16	L 2 X 2 X 1/8	L 2 X 2 X 1/4	L 2 X 2 X 1/8	
HORIZONTALS	NONE					L 2 X 2 X 1/8	L 2 X 2 X 1/4	L 2 X 2 X 1/8	
BAYS/SECTION	3 BAYS			4 BAYS					
SECTION WEIGHT	5640 LBS.	5010 LBS.	4457 LBS.	3704 LBS.	3207 LBS.	2599 LBS.	2138 LBS.	1846 LBS.	1165 LBS.



MATERIAL LIST	
A	L 2 1/2 X 2 1/2 X 3/16



PLAN VIEW

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DRW/CHK	DESCRIPTION

**Sabre Industries**  
Towers and Poles

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MASTER: 180 FT. MODEL S3R-SD			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE /B	DRAWING NO. 414025-MS	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 2		PAGE 1 OF 2	



**DRAWING LIST**

- 414025-F1 . . . . . CAISSON FOUNDATION
- 414025-F2 . . . . . MAT & PIER FOUNDATION
- C30400129 . . . . . LEG TO LEG TEMPLATE
- 906195 . . . . . TOWER BASE INSTALLATION
- 414025-S08 . . . . . SECTION 0 FT. - 20 FT.
- 414025-S07 . . . . . SECTION 20 FT. - 40 FT.
- 414025-S06 . . . . . SECTION 40 FT. - 60 FT.
- 414025-S05 . . . . . SECTION 60 FT. - 80 FT.
- 414025-S04 . . . . . SECTION 80 FT. - 100 FT.
- 414025-S03 . . . . . SECTION 100 FT. - 120 FT.
- 414025-S02 . . . . . SECTION 120 FT. - 140 FT.
- 414025-S01-1 . . . . . SECTION 140 FT. - 160 FT.
- 414025-S01-2 . . . . . SECTION 160 FT. - 180 FT.
- 414025-CL1 . . . . . 16" CLIMBING LADDER INSTALLATION
- 9029450 . . . . . 16" CLIMBING LADDER
- 9031527 . . . . . LADDER BASE
- 900219 . . . . . STEP/CONSTRUCTION BOLT INSTALLATION
- SEE MANUAL W/KIT . . . . . CABLE SAFETY CLIMB DEVICE
- 414025-WG1 . . . . . WAVEGUIDE LADDER INSTALLATION
- 414025-WG2 . . . . . WAVEGUIDE LADDER INSTALLATION
- 414025-WG3 . . . . . WAVEGUIDE LADDER INSTALLATION
- 9028851 . . . . . WAVEGUIDE LADDER (15 HOLE)
- 9031598 . . . . . FIXED PLATFORM @ 178'
- 414025-PM1 . . . . . 4 1/2 O.D. PIPE MOUNT KITS @ 170'
- 414025-DT1 . . . . . STIFFARM MOUNT KITS FOR PIPE MOUNTS @ 170'
- 414025-PM2 . . . . . 4 1/2 O.D. PIPE MOUNT KITS @ 160'
- 414025-DT2 . . . . . STIFFARM MOUNT KITS FOR PIPE MOUNTS @ 160' (ABOVE SPLICE)
- 414025-PM3 . . . . . 4 1/2 O.D. PIPE MOUNT KITS @ 150'
- 414025-DT3 . . . . . STIFFARM MOUNT KITS FOR PIPE MOUNTS @ 150'
- 414025-SA1 . . . . . 3' SIDEARMS @ 125'
- 414025-PM4 . . . . . 4 1/2 O.D. PIPE MOUNT KITS FOR SIDEARMS @ 125'
- 414025-ST1 . . . . . SWIVEL KNUCKLE TIEBACK KITS FOR SIDEARMS @ 125'
- 414025-SA2 . . . . . 3' SIDEARMS @ 90'
- 414025-PM5 . . . . . 4 1/2 O.D. PIPE MOUNT KITS FOR SIDEARMS @ 90'
- 414025-ST2 . . . . . SWIVEL KNUCKLE TIEBACK KITS FOR SIDEARMS @ 90'
- 414025-LR . . . . . LIGHTNING ROD W/STIFFENER & EXTENSION
- 9014671 . . . . . BOLT INSTALLATION
- 906956 . . . . . TOWER NAME PLATE
- 907901 . . . . . INVENTORY REQUIREMENT SHEET
- BOM-1 . . . . . BILL OF MATERIAL

**TOWER DESIGN INFORMATION**

THIS ERECTION DRAWING PACKAGE IS BASED ON THE STRUCTURAL ANALYSIS NO. 414025.

THIS TOWER WAS DESIGNED FOR A BASIC WIND SPEED OF 90 MPH WITH 0" OF RADIAL ICE, AND 40 MPH WITH 1" OF RADIAL ICE, IN ACCORDANCE WITH ANSI/TIA-222-G, IMPORTANCE FACTOR = 1.25, EXPOSURE CATEGORY C, TOPOGRAPHIC CATEGORY 1.

THE TOWER DESIGN MEETS THE REQUIREMENTS FOR AN ULTIMATE WIND SPEED OF 120 MPH (RISK CATEGORY III), IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE.

**TOWER DESIGNED ANTENNA LOADING**

ELEV.	ANTENNAS	ELEV.	ANTENNAS
188.3'	ATC GD1V40	150'	(2) LEG DISH MOUNT
187.7'	(3) DB809DK-Y	150'	LEG DISH MOUNT
178'	(3) LEG DISH MOUNT	150'	(1) 4' H.P. DISH
178'	PLATFORM - FIXED	150'	(2) 6' H.P. DISH
178'	(3) SP2-5.2	135.3'	ATC GD1V4D
170'	(2) LEG DISH MOUNT	125'	(3) 6FT SIDEARMS
170'	LEG DISH MOUNT	115'	3V-BOOM - 12FT FACE - 3FT STANDOFF W/ WORK PLATFORMS
170'	(1) 4' H.P. DISH	115'	(12) 5960110
170'	(2) 6' H.P. DISH	115'	(3) TTA (24IN X 30IN 12IN)
160'	(2) LEG DISH MOUNT	100.62'	(3) DB224
160'	LEG DISH MOUNT	90'	(3) 6FT SIDEARMS
160'	(1) 4' H.P. DISH	55.29'	(3) DB222
160'	(2) 6' H.P. DISH	50'	(3) 3FT SIDEARMS

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DRW/CHK	DESCRIPTION



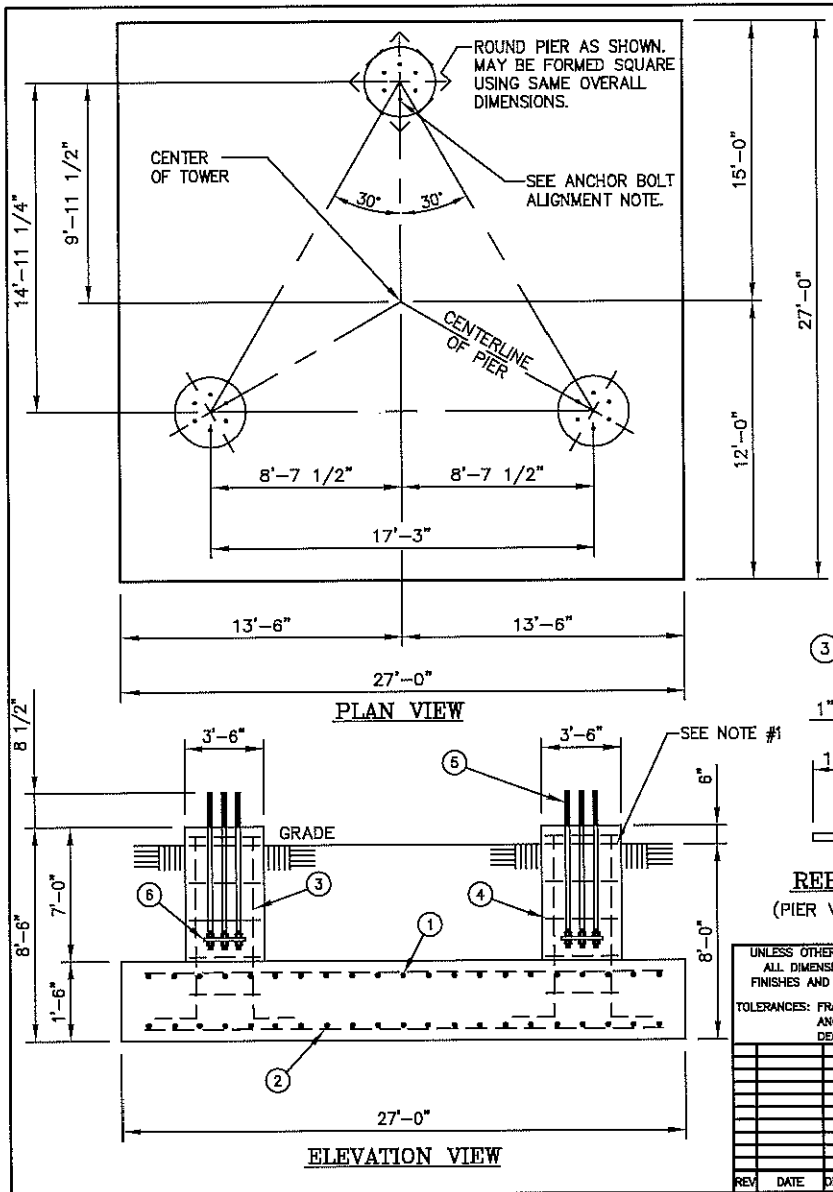
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**MASTER:** 180 FT. MODEL S3R-SD  
**SITE:** HALLSVILLE, MO  
**CUSTOMER:** BOONE COUNTY, MO

JOB NO. 414025		SIZE	DRAWING NO.		REV
DATE	09/25/18	B	414025-MS		0
DRAWN BY	DLK	SCALE		PAGE	
CHECKED BY	ZAK	NONE		2 OF 2	







(CAUTION: CENTER OF TOWER IS NOT IN CENTER OF SLAB)

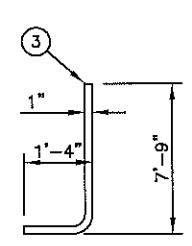
REINFORCING STEEL SCHEDULE								
ITEM	LOCATION	NO. REQ'D.	BAR SPC'G.	SIZE	CUT LGTH.	TOTAL LGTH.	TOTAL WT.	SHAPE
①	PAD TOP REINFORCING	86	EQUALLY SPACED	#10	26'-6"	2279'-0"	9807 LBS.	STRAIGHT
②	PAD BOTTOM REINFORCING	86	EQUALLY SPACED	#10	26'-6"	2279'-0"	9807 LBS.	STRAIGHT
③	PIER VERTICAL REINFORCING	48	EQUALLY SPACED	#8	9'-1"	436'-0"	1164 LBS.	
④	PIER TIES	30	SPACED 11" C/C	#4	10'-8"	320'-0"	214 LBS.	
TOTAL REBAR WT.							20992 LBS.	

ANCHOR BOLT SCHEDULE				
ITEM	PART NO.	NO. REQ'D.	ANCHOR BOLT SIZE	SPACING
⑤	C40041060	18	1 1/2" x 6'-6"	EQUALLY SPACED

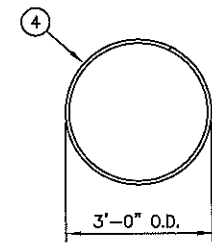
TEMPLATE SCHEDULE			
ITEM	PART NO.	NO. REQ'D.	BOLT CIRCLE
⑥	C30139210	6	10 1/4"

CONCRETE REQ'D	ROUND PIERS	SQUARE PIERS
PAD	40.50 CU. YDS.	40.50 CU. YDS.
PIERS	7.48 CU. YDS.	9.53 CU. YDS.
TOTAL	47.98 CU. YDS.	50.03 CU. YDS.

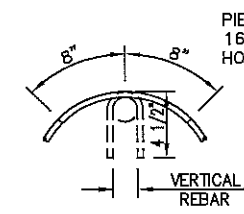
SEE PAGE 2 FOR GENERAL NOTES



**REBAR DETAIL**  
(PIER VERTICAL REBAR)



**REBAR DETAIL**  
(PIER TIES)



**PIER TIE HOOK DETAIL**

PIER TIES TO HAVE 16" OVERLAP OR 4 1/2" HOOK AS SHOWN

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
ANGLES ± 1/2 DEG.			
DECIMALS ± .010"			
REV	DATE	DRW/CHK	DESCRIPTION

**Sabre Industries**  
Towers and Poles

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FOUNDATION: 180 FT. MODEL SSR-SD			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-F2	REV 0
DATE 07/19/18	DRAWN BY DLK	CHECKED BY KD	SCALE NONE
PAGE 1 OF 2			



**GENERAL NOTES**

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI, IN ACCORDANCE WITH ACI 318-11. (2 REBAR TIES REQ'D IN THE TOP 5")
2. REBAR TO CONFORM TO ASTM SPECIFICATION A615 GRADE 60.
3. ALL REBAR TO HAVE A MINIMUM OF 3" CONCRETE COVER.
4. ALL EXPOSED CONCRETE CORNERS TO BE CHAMFERED 3/4".
5. THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY CROCKETT GTL PROJECT NO. G183D7, DATED: 3/29/18
6. SEE THE GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS, IF SPECIFIED.
7. 6.5 FT OF SOIL COVER IS REQUIRED OVER THE ENTIRE AREA OF THE FOUNDATION SLAB.
8. THE BOTTOM ANCHOR BOLT TEMPLATE SHALL BE POSITIONED AS CLOSELY AS POSSIBLE TO THE BOTTOM OF THE ANCHOR BOLTS.
9. DISTANCE BETWEEN CENTER OF ANCHOR BOLT CAGE AND THE CENTER OF THE PIER NOT TO EXCEED 1/2" WITHOUT APPROVAL FROM ENGINEER OF RECORD.
10. ONE ANCHOR BOLT MUST BE ALIGNED DIRECTLY WITH THE CENTER OF THE TOWER (TYPICAL).

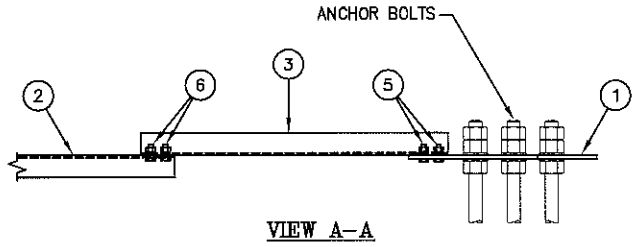
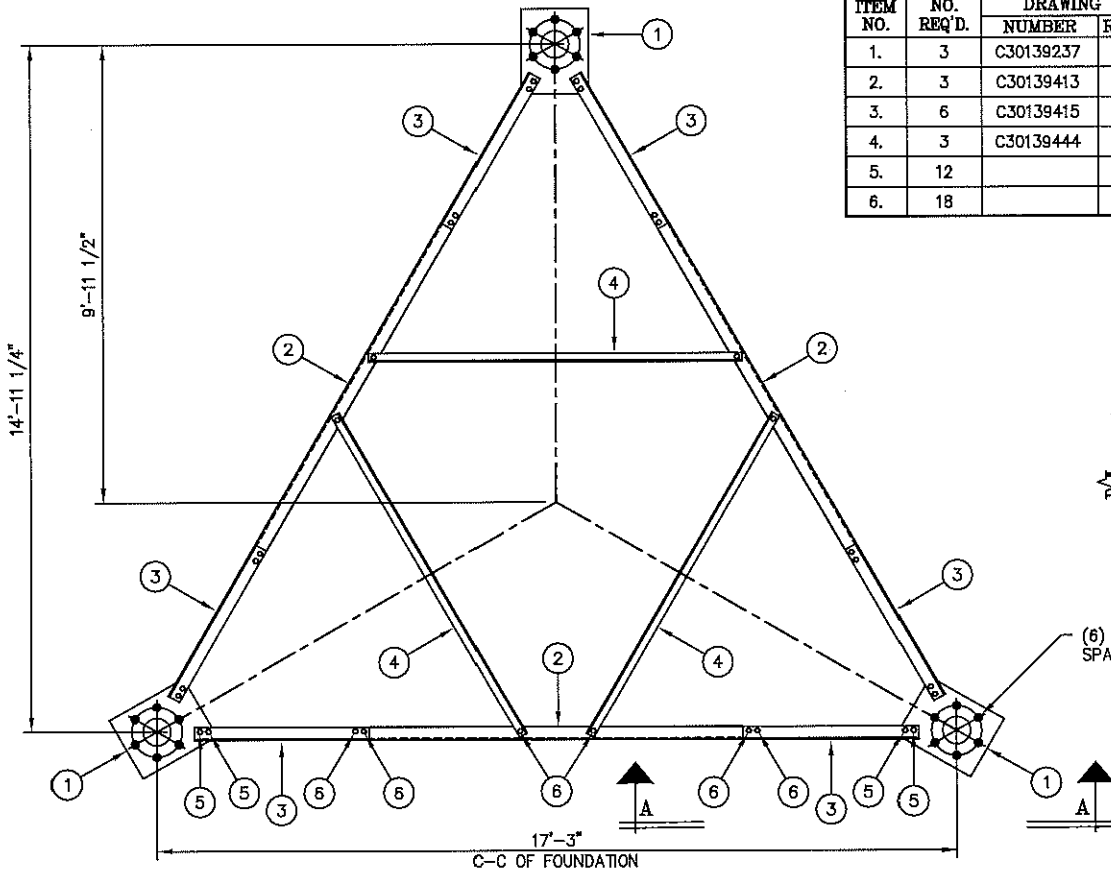
**BASE REACTIONS**

TOTAL FOUNDATION		INDIVIDUAL FOOTING	
SHEAR (KIPS)	64.74	SHEAR (KIPS)	38.28
AXIAL (KIPS)	189.88	COMPRESSION (KIPS)	462
MOMENT (FT-KIPS)	6798	UPLIFT (KIPS)	423

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:			FOUNDATION: 180 FT. MODEL S3R-SD						
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.			SITE: HALLSVILLE, MO						
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					DATE	07/19/18	B	414025-F2	0		
			REV		DATE	DRWCHK	DESCRIPTION	DRAWN BY	DLK	SCALE	PAGE
								CHECKED BY	KD	NONE	2 OF 2

C30400129 LEG TO LEG TEMPLATE

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	WEIGHT LBS.	PAINT
		NUMBER	REV				
1.	3	C30139237	0	C30139237	PLATE, ANCHOR BOLT TEMPLATE, 1 1/2" A.B. ON A 10 1/4" B.C.	97	N/R
2.	3	C30139413	0	C30139413	ANGLE, TEMPLATE SUPPORT, 3 X 3 X 3/16 X 10'-0	111	N/R
3.	6	C30139415	0	C30139415	ANGLE, TEMPLATE SUPPORT, 3 X 3 X 3/16 X 3'-3 1/4	73	N/R
4.	3	C30139444	0	C30139444	ANGLE, TEMPLATE SUPPORT, 2 1/2 X 2 1/2 X 3/16 X 8'-1 1/2	75	N/R
5.	12			C40026023	BOLT ASSEMBLY, 5/8 ϕ X 2 A325	6	
6.	18			C40026022	BOLT ASSEMBLY, 5/8 ϕ X 1 3/4 A325	8	
TOTAL WEIGHT IN LBS.						370	



(6) 1 1/2" ϕ ANCHOR BOLTS  
SPACED 60° APART ON A 10 1/4" BOLT CIRCLE

- NOTE:**
1. ALWAYS COMPARE THE DIMENSIONS SHOWN ON THIS DRAWING WITH THE PROPER CONCRETE FOUNDATION DRAWING, PRIOR TO PLACING CONCRETE.
  2. ONE ANCHOR BOLT MUST BE ALIGNED DIRECTLY WITH THE CENTER OF THE TOWER (TYPICAL AT ALL (3) LEGS).
  3. VERIFY ANCHOR BOLT CIRCLE CENTER-TO-CENTER SPACING ON ALL (3) FACES AND ALIGNMENT OF ANCHOR BOLTS WITH THE CENTER OF THE TOWER AT ALL (3) LEGS PRIOR TO PLACING CONCRETE.
  4. PROVIDE NECESSARY SUPPORT TO ELIMINATE ANY MOVEMENT DURING CONCRETE PLACEMENT AND CURING.

PLAN VIEW

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS INCLUDE  
FINISHES AND ARE IN INCHES  
TOLERANCES: FRACTIONS ± 1/16"  
ANGLES ± 1/2 DEG.  
DECIMALS ± .010"

MATERIAL:  
TOLERANCES DO NOT APPLY  
TO RAW MATERIAL



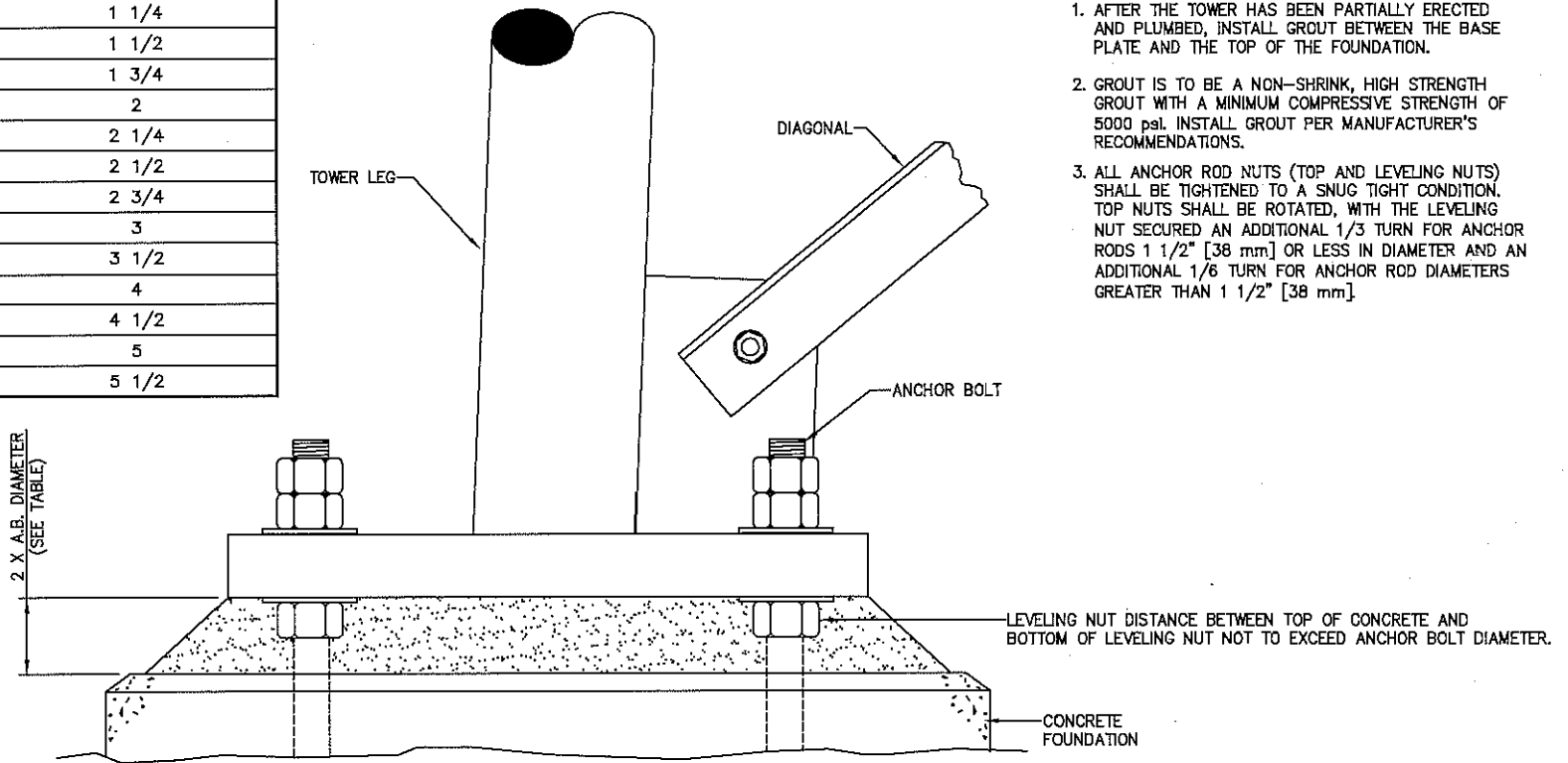
LEG TO LEG TEMPLATE INSTALLATION  
FOR MODEL S3R-SD SECTION 08  
BASE SPREAD 17'-3" C-C OF FOUNDATION  
(6) 1 1/2" ϕ A.B. ON A 10 1/4" ϕ B.C.

REV	DATE	DRW/CHK	DESCRIPTION
1	10/13/17	RWM/HR	REVISED NOTES

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REF. 9031090	SIZE B	DRAWING NO. C30400129	REV 1
DATE 8/18/16	DRAWN BY DJB	CHECKED BY KTW	SCALE None
		PAGE 1 OF 1	

TABLE	
ANCHOR BOLT DIAMETER (in)	MAXIMUM SPACE (in)
1/2	1
5/8	1 1/4
3/4	1 1/2
7/8	1 3/4
1	2
1 1/8	2 1/4
1 1/4	2 1/2
1 3/8	2 3/4
1 1/2	3
1 3/4	3 1/2
2	4
2 1/4	4 1/2
2 1/2	5
2 3/4	5 1/2



**NOTES:**

1. AFTER THE TOWER HAS BEEN PARTIALLY ERECTED AND PLUMBED, INSTALL GROUT BETWEEN THE BASE PLATE AND THE TOP OF THE FOUNDATION.
2. GROUT IS TO BE A NON-SHRINK, HIGH STRENGTH GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 psi. INSTALL GROUT PER MANUFACTURER'S RECOMMENDATIONS.
3. ALL ANCHOR ROD NUTS (TOP AND LEVELING NUTS) SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION. TOP NUTS SHALL BE ROTATED, WITH THE LEVELING NUT SECURED AN ADDITIONAL 1/3 TURN FOR ANCHOR RODS 1 1/2" [38 mm] OR LESS IN DIAMETER AND AN ADDITIONAL 1/6 TURN FOR ANCHOR ROD DIAMETERS GREATER THAN 1 1/2" [38 mm].

**ELEVATION VIEW**

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
8	10/13/17	RLW	ADDED ANCHOR BOLT TABLE REVISION LEVELING
7	1/8/12	DLW	REMOVED BASE PLATE TO END OF
6	1/28/07	MLC	ADDED GROUT NOTE
5	3/30/05	KMM	CHANGED TITLE BLOCK DESCRIPTION TO INCLUDE S&R
4	8/11/04	CE	RE-DRAWN ONTO "B" SIZE TITLE BLOCK
3	03/12/01	DLW	REVISION TO AUTOCAD 2000
2	06/28/99	MLC	RE-DRAWN IN AUTOCAD
1	02/11/97	MLC	ADDED NEW TITLE BLOCK
REV.	DATE	DRW/CHK	DESCRIPTION

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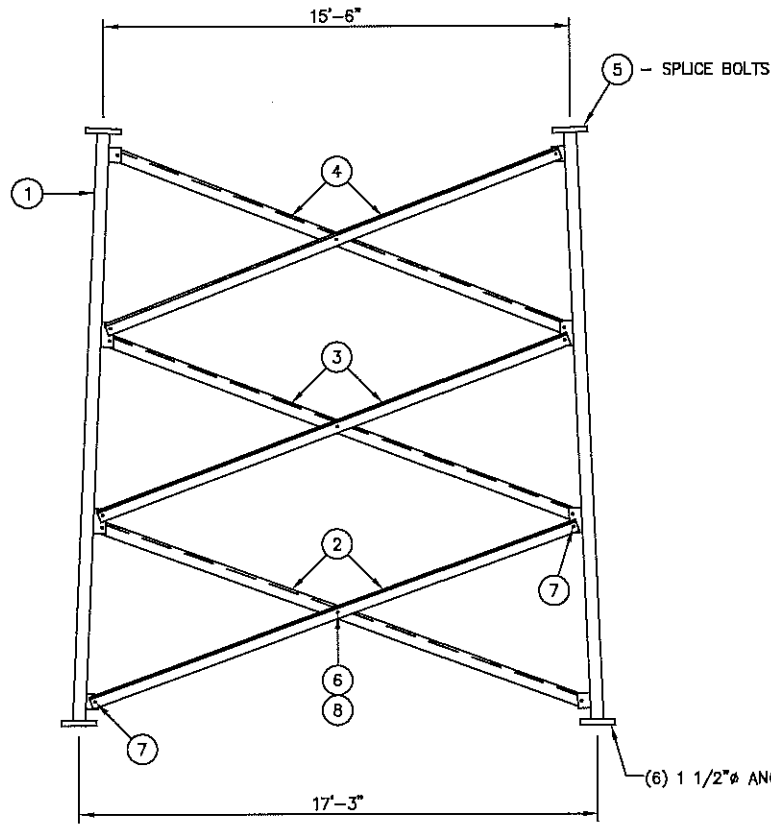
**TOWER BASE INSTALLATION  
(S3R & S4R)**

		SIZE	DRAWING NO.	REV
DATE	05/20/97	B	906195	8
DRAWN BY	MLC	SCALE		PAGE
CHECKED BY	DLW	None		1 OF 1





## LIST OF MATERIAL



08--LEGS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	08-T1181241	SECT. 8 LEG 4 1/2" $\phi$ X 20'-0 5/16 W/STEP BOLTS	3953
TOTAL WEIGHT LBS				3953

08-T8300081 BRACING KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02614	ANGLE, DIAGONAL 3 X 3 X 1/4 X 17'-2 3/4	527
3	6	TS02615	ANGLE, DIAGONAL 3 X 3 X 1/4 X 16'-8 9/16	511
4	6	TS02616	ANGLE, DIAGONAL 3 X 3 X 1/4 X 16'-2 1/2	496
TOTAL WEIGHT LBS				1534

SPLICE BOLTS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	19	C40026115	BOLT ASSEMBLY, 1 1/2" $\phi$ X 6 1/2 A325	115
TOTAL WEIGHT LBS				115

TK00261 HARDWARE KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026045	BOLT ASSEMBLY, 3/4" $\phi$ X 2 1/2 A325	8
7	38	C40026044	BOLT ASSEMBLY, 3/4" $\phi$ X 2 1/4 A325	28
8	10	C40047009	RINGFILL, 1/2" THICK - 3/4" $\phi$ BOLT	2
TOTAL WEIGHT LBS				38

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT	5640
--	------

### FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS PROVIDED FOR (3) LEGS.

(6) 1 1/2"  $\phi$  ANCHOR BOLTS ON A 10 1/4"  $\phi$  BOLT CIRCLE

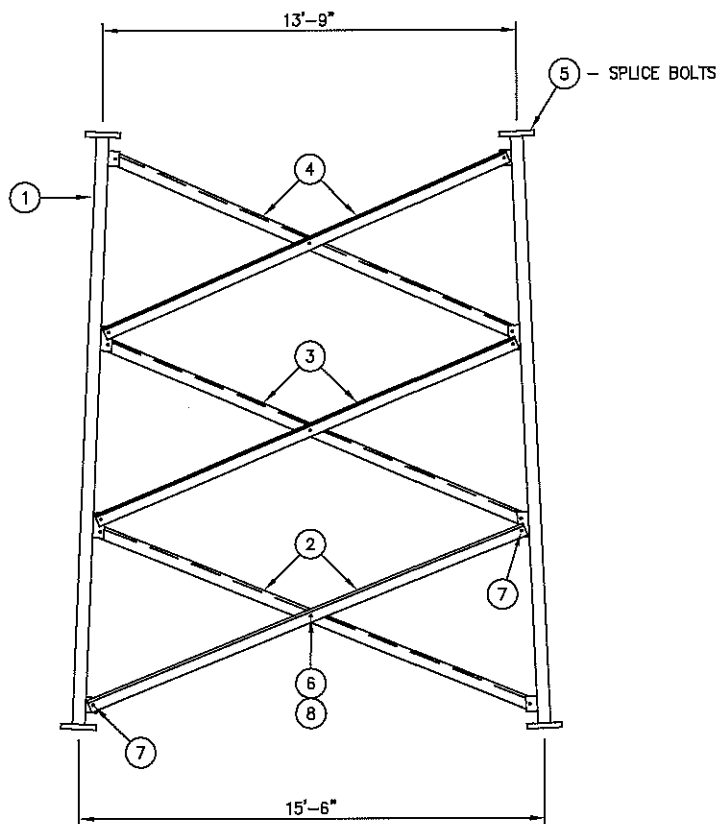
ELEVATION VIEW

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES  TOLERANCES: FRACTIONS $\pm$ 1/16" ANGLES $\pm$ 1/2 DEG. DECIMALS $\pm$ .010"	MATERIAL:  TOLERANCES DO NOT APPLY TO RAW MATERIAL
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REV    DATE    DRW/CHK    DESCRIPTION	

				<b>SECTION ERECTION:</b> 08 08-T8300081 <b>SITE:</b> HALLSVILLE, MO <b>CUSTOMER:</b> BOONE COUNTY, MO			
JOB NO. 414025		SIZE	DRAWING NO.		REV		
DATE	09/25/18	B	414025-S08		0		
DRAWN BY	DLK			SCALE	PAGE		
CHECKED BY	KD			NONE	1 OF 1		



## LIST OF MATERIAL



**ELEVATION VIEW**

07-LEGS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	07-T1181039	SECT. 7 LEG 4 1/4 ø X 20'-0 5/16 W/STEP BOLTS	3511
TOTAL WEIGHT LBS				3511

07-T8300071 BRACING KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02584	ANGLE, DIAGONAL 3 X 3 X 1/4 X 15'-8 1/16	479
3	6	TS02585	ANGLE, DIAGONAL 3 X 3 X 1/4 X 15'-2 1/16	464
4	6	TS02586	ANGLE, DIAGONAL 3 X 3 X 1/4 X 14'-8	449
TOTAL WEIGHT LBS				1392

SPLICE BOLTS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	19	C40026094	BOLT ASSEMBLY, 1 1/4 ø X 5 1/2 A325	69
TOTAL WEIGHT LBS				69

TK00261 HARDWARE KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026045	BOLT ASSEMBLY, 3/4 ø X 2 1/2 A325	8
7	38	C40026044	BOLT ASSEMBLY, 3/4 ø X 2 1/4 A325	28
8	10	C40047009	RINGFILL, 1/2 THICK - 3/4 ø BOLT	2
TOTAL WEIGHT LBS				38

TOTAL SECTION WEIGHT -- INCLUDES 3 LEGS, BRACING AND HARDWARE KIT	5010
---	------

**FIELD NOTES**

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS PROVIDED FOR (3) LEGS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES  TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"	MATERIAL:  TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV    DATE    DRW/CHK	DESCRIPTION

**SECTION ERECTION:** 07 07-T8300071

**SITE:** HALLSVILLE, MO

**CUSTOMER:** BOONE COUNTY, MO

JOB NO. 414025	SIZE	DRAWING NO.	REV
DATE 09/25/18	B	414025-S07	0
DRAWN BY DLK	CHECKED BY KD	SCALE NONE	PAGE 1 OF 1

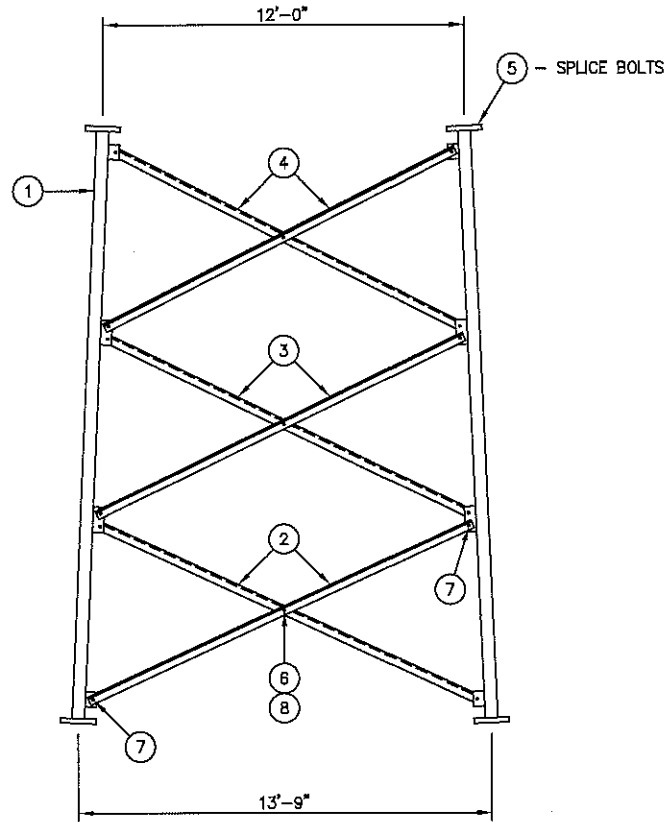
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# LIST OF MATERIAL



**ELEVATION VIEW**

06-LEGS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	06-T1181038	SECT. 6 LEG 4 1/4 ø X 20'-0 5/16	3409
TOTAL WEIGHT LBS				3409

06-T8300064 BRACING KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02563	ANGLE, DIAGONAL 3 X 3 X 3/16 X 14'-0 7/8	326
3	6	TS02564	ANGLE, DIAGONAL 3 X 3 X 3/16 X 13'-6 15/16	314
4	6	TS02565	ANGLE, DIAGONAL 3 X 3 X 3/16 X 13'-1 1/16	303
TOTAL WEIGHT LBS				943

SPLICE BOLTS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	19	C40026094	BOLT ASSEMBLY, 1 1/4 ø X 5 1/2 A325	69
TOTAL WEIGHT LBS				69

TK00260 HARDWARE KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026044	BOLT ASSEMBLY, 3/4 ø X 2 1/4 A325	7
7	38	C40026043	BOLT ASSEMBLY, 3/4 ø X 2 A325	27
8	10	C40047009	RINGFILL, 1/2 THICK - 3/4 ø BOLT	2
TOTAL WEIGHT LBS				36

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT				4457
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### FIELD NOTES

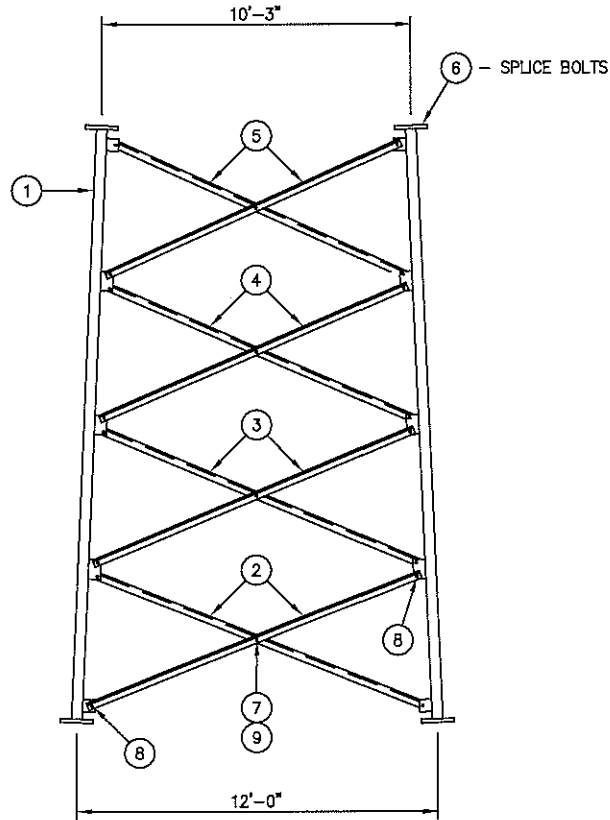
1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES  TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		MATERIAL:  TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DESCRIPTION



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SECTION ERECTION: 06 06-T8300064			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025		SIZE	DRAWING NO.
DATE	09/25/18	B	414025-S06
DRAWN BY	DLK	REV 0	
CHECKED BY	KD ✓	SCALE	PAGE
NONE		1 OF 1	



ELEVATION VIEW

### LIST OF MATERIAL

#### 05--LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	05-T1180944	SECT. 5 LEG 3 3/4 ø X 20'-0 5/16	2735
TOTAL WEIGHT LBS				2735

#### 05--T8300059 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02545	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-10 15/16	229
3	6	TS02546	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-6 1/4	221
4	6	TS02547	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-1 5/8	214
5	6	TS02548	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 10'-9	206
TOTAL WEIGHT LBS				870

#### SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	19	C40026094	BOLT ASSEMBLY, 1 1/4 ø X 5 1/2 A325	69
TOTAL WEIGHT LBS				69

#### TK00194 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	13	C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	6
8	50	C40026022	BOLT ASSEMBLY, 5/8 ø X 1 3/4 A325	22
9	13	C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	2
TOTAL WEIGHT LBS				30

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT

3704

#### FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DRW/CHK	DESCRIPTION



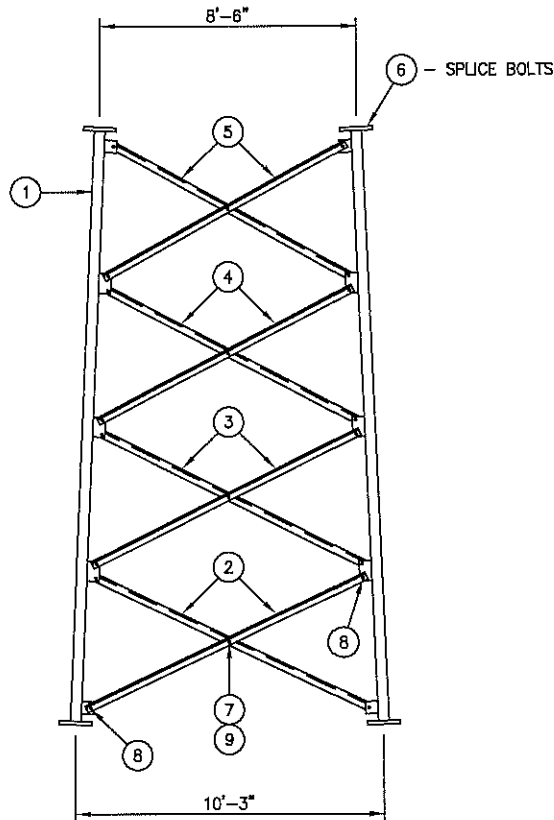
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SECTION ERECTION: 05 05--T8300059  
SITE: HALLSVILLE, MO  
CUSTOMER: BOONE COUNTY, MO

JOB NO. 414025		SIZE	DRAWING NO.		REV
DATE	09/25/18	B	414025-S05		0
DRAWN BY	DLK	SCALE		PAGE	
CHECKED BY	KD	NONE		1 OF 1	



## LIST OF MATERIAL



**ELEVATION VIEW**

04-LEGS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	04-T1180940	SECT. 4 LEG 3 1/2 ø X 20'-0 5/16	2355
TOTAL WEIGHT LBS				2355

04-T8300052 BRACING KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02517	ANGLE, DIAGONAL 2 X 2 X 1/4 X 10'-3 11/16	205
3	6	TS02518	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-11 3/16	198
4	6	TS02519	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-6 11/16	190
5	6	TS02520	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-2 1/4	183
TOTAL WEIGHT LBS				776

SPLICE BOLTS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	19	C40026080	BOLT ASSEMBLY, 1 ø X 4 3/4 A325	44
TOTAL WEIGHT LBS				44

TK00259 HARDWARE KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	13	C40026024	BOLT ASSEMBLY, 5/8 ø X 2 1/4 A325	7
8	50	C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	23
9	13	C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	2
TOTAL WEIGHT LBS				32

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT				3207
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**FIELD NOTES**

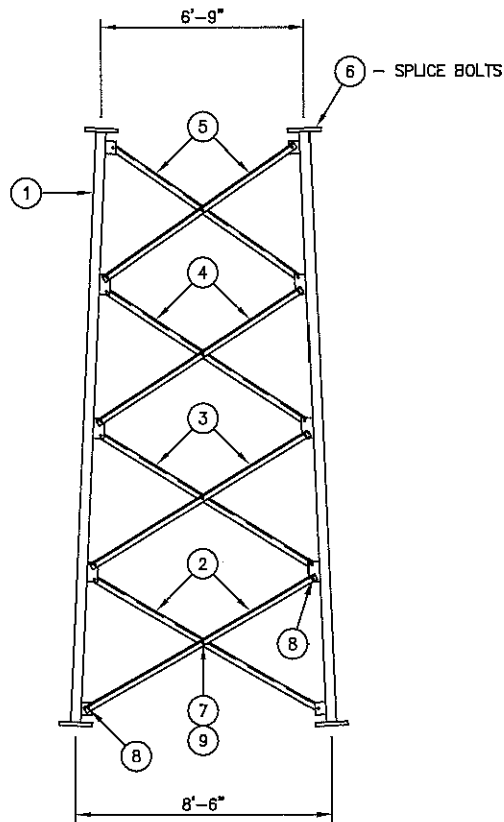
1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES</p> <p>TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"</p>	<p>MATERIAL:</p> <p>TOLERANCES DO NOT APPLY TO RAW MATERIAL</p>																																												
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**SECTION ERECTION:** 04 04-T8300052  
**SITE:** HALLSVILLE, MO  
**CUSTOMER:** BOONE COUNTY, MO

JOB NO. 414025		SIZE	DRAWING NO.	REV
DATE	09/25/18	B	414025-S04	0
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CHECKED BY	KD	NONE		1 OF 1

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES



ELEVATION VIEW

## LIST OF MATERIAL

### 03-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	03-T1180838	SECT. 3 LEG 3 1/4 ø X 20'-0 5/16	2017
TOTAL WEIGHT LBS				2017

### 03-T8300046 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02493	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-10 1/2	136
3	6	TS02494	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-6 1/8	130
4	6	TS02495	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-1 7/8	124
5	6	TS02496	ANGLE, DIAGONAL 2 X 2 X 3/16 X 7'-9 11/16	119
TOTAL WEIGHT LBS				509

### SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	19	C40026079	BOLT ASSEMBLY, 1 ø X 4 1/2 A325	43
TOTAL WEIGHT LBS				43

### TK00194 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	13	C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	6
8	50	C40026022	BOLT ASSEMBLY, 5/8 ø X 1 3/4 A325	22
9	13	C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	2
TOTAL WEIGHT LBS				30

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT

2599

### FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	DRW/CHK	DESCRIPTION



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SECTION ERECTION: 03 03-T8300046

SITE: HALLSVILLE, MO

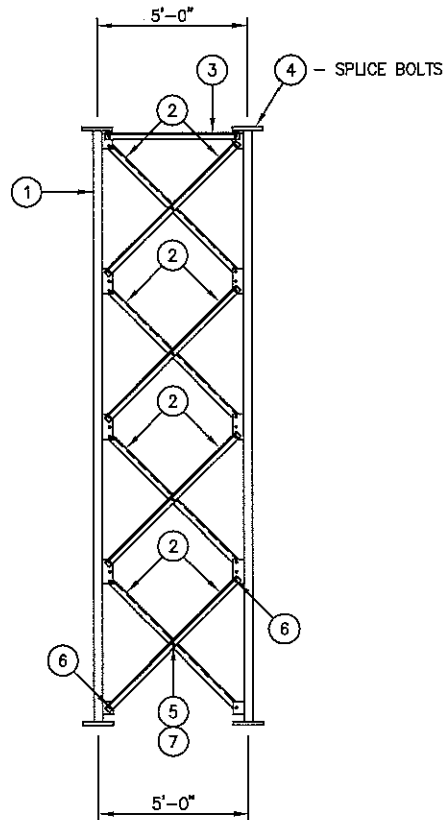
CUSTOMER: BOONE COUNTY, MO

JOB NO. 414025		SIZE	DRAWING NO.		REV
DATE	09/25/18	B	414025-S03		0
DRAWN BY	DLK	SCALE		PAGE	
CHECKED BY	KD ✓	NONE		1 OF 1	





## LIST OF MATERIAL



**ELEVATION VIEW**

### 01-20- LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	01-T1180622	SECT. 1 LEG 2 1/2 ø X 20'-0 5/16	1258
TOTAL WEIGHT LBS				1258

### 01-T8300031 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	24	TS02443	ANGLE, DIAGONAL 2 X 2 X 1/4 X 6'-2 3/4	497
3	3	TS02411	ANGLE, HORIZONTAL 2 X 2 X 1/4 X 4'-5 3/4	45
TOTAL WEIGHT LBS				542

### SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
4	13	C40026048	BOLT ASSEMBLY, 3/4 ø X 3 1/4 A325	11
TOTAL WEIGHT LBS				11

### TK00146 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	13	C40026024	BOLT ASSEMBLY, 5/8 ø X 2 1/4 A325	7
6	57	C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	26
7	13	C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	2
TOTAL WEIGHT LBS				35

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT      **1846**

### FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

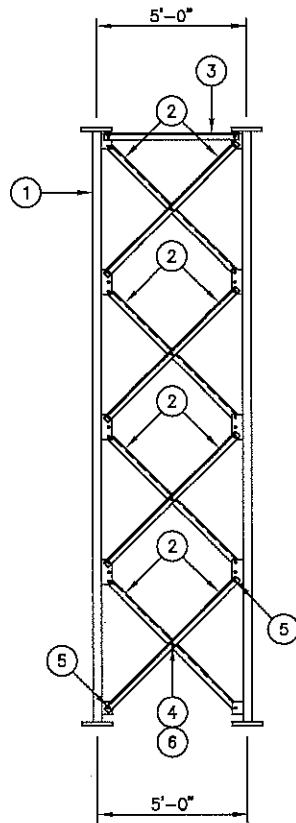
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REV	DATE	DRW/CHK	DESCRIPTION																																		



**SECTION ERECTION:** 01-20 01-T8300031  
**SITE:** HALLSVILLE, MO  
**CUSTOMER:** BOONE COUNTY, MO

JOB NO. 414025	SIZE B	DRAWING NO. 414025-S01-1	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY KD	SCALE NONE
		PAGE 1 OF 1	





**ELEVATION VIEW**

## LIST OF MATERIAL

### 01-20- LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	01-T1180608	SECT. 1 LEG 2 $\emptyset$ X 20'-0 5/16	852
TOTAL WEIGHT LBS				852

### 01-T8300029 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	24	TS02441	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-2 3/4	257
3	3	TS02409	ANGLE, HORIZONTAL 2 X 2 X 1/8 X 4'-5 3/4	23
TOTAL WEIGHT LBS				280

### TK00134 HARDWARE KIT

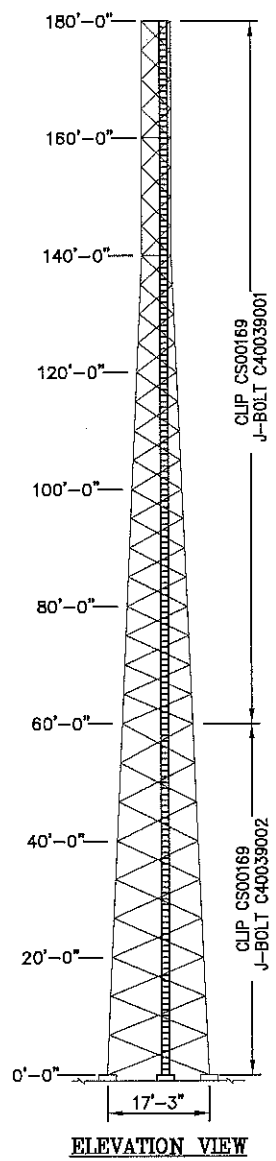
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
4	13	C40026023	BOLT ASSEMBLY, 5/8 $\emptyset$ X 2 A325	6
5	57	C40026022	BOLT ASSEMBLY, 5/8 $\emptyset$ X 1 3/4 A325	25
6	13	C40047003	RINGFILL, 3/8 THICK - 5/8 $\emptyset$ BOLT	2
TOTAL WEIGHT LBS				33

TOTAL SECTION WEIGHT -- INCLUDES 3 LEGS, BRACING AND HARDWARE KIT	1165
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**FIELD NOTES**

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

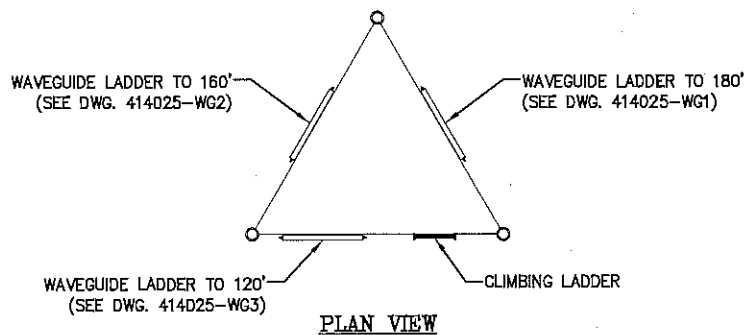
<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES</p> <p>TOLERANCES: FRACTIONS <math>\pm</math> 1/16" ANGLES <math>\pm</math> 1/2 DEG. DECIMALS <math>\pm</math> .010"</p>	<p>MATERIAL:</p> <p>TOLERANCES DO NOT APPLY TO RAW MATERIAL.</p>		<p><b>SECTION ERECTION:</b> 01-20 01-T8300029</p> <p><b>SITE:</b> HALLSVILLE, MO</p> <p><b>CUSTOMER:</b> BOONE COUNTY, MO</p>																																												
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**ELEVATION VIEW**

CLIMBING LADDER				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	9	CW00118	WELDMENT, 20 FT. CLIMBING LADDER 16" WIDE	855
2	16	CS00037	PLATE, LADDER SPLICE	6
3	2	CS00242	ANGLE, LADDER BASE SUPPORT	15
4	42	CS00169	CLIP, LADDER ATTACHMENT	23
TOTAL WEIGHT LBS				899

LADDER HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	18	C40039002	J-BOLT ASSEMBLY, 3/8" ø X 7 1/4 I.L.	6
6	24	C40039001	J-BOLT ASSEMBLY, 3/8" ø X 5 3/4 I.L.	7
7	34	C40024004	BOLT ASSEMBLY, 3/8" ø X 1 1/2 GRD 5	3
8	96	C40044002	STEP BOLT ASSEMBLY, 5/8" ø X 7 H.D.G.	96
TOTAL WEIGHT LBS				112



**PLAN VIEW**

**FIELD NOTES**

1. FROM ELEVATION 0'-0" TO 60'-0" ATTACH LADDER TO EACH DIAGONAL.  
FROM ELEVATION 60'-0" TO 180'-0" ATTACH LADDER TO EVERY OTHER DIAGONAL.
2. SEE REFERENCE DWG. 902945D FOR CLIMBING LADDER INSTALLATION FROM ELEVATION 0'-0" TO 180'-0".
3. SEE REFERENCE DWG. 9031527 FOR CLIMBING LADDER BASE INSTALLATION.
4. SEE REFERENCE DWG. 900219 FOR CONSTRUCTION STEP BOLT INSTALLATION FROM ELEVATION 0'-0" TO 40'-0".
5. SEE CUSTOMER REQUESTS FOR PROPER FACE POSITIONING OF ALL LADDERS.

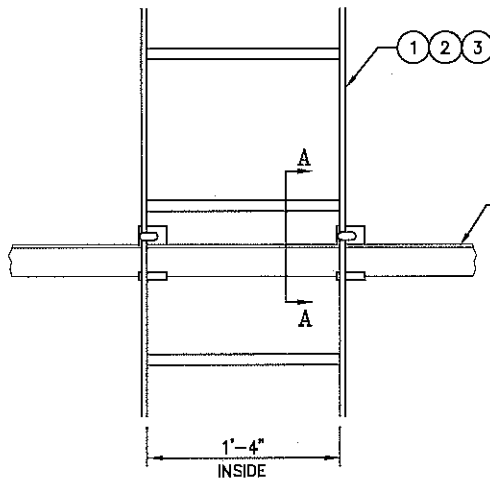
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TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	DRW/CHK	DESCRIPTION

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Towers and Poles

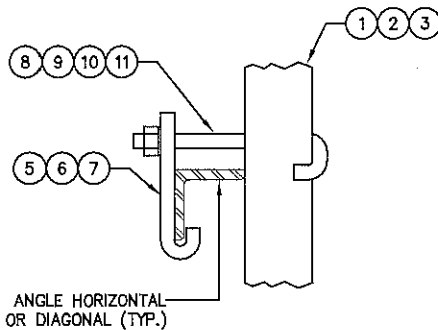
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<b>CLIMBING LADDER: 180 FT. MODEL S3R-SD</b>			
<b>SITE: HALLSVILLE, MO</b>			
<b>CUSTOMER: BOONE COUNTY, MO</b>			
JOB NO. 414025		SIZE	DRAWING NO.
DATE		09/28/18	414025-CL1
DRAWN BY		DLK	REV
CHECKED BY		ZAK	0
SCALE		NONE	PAGE
1 OF 1			



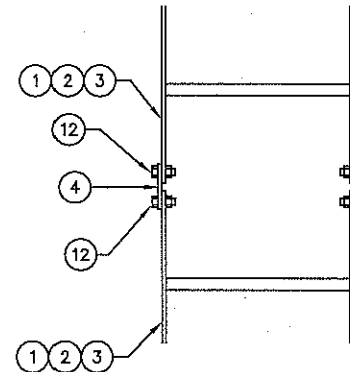
**ELEVATION**  
(TYPICAL MOUNTING DETAIL)



**SECTION A-A**

ANGLE HORIZONTAL  
SHOWN TYPICAL  
(CAN BE USED ON  
ANGLE DIAGONALS)

**NOTE:**  
MAXIMUM SPACING OF LADDER CLIPS  
UP THE TOWER TO BE  $\pm 10''-0''$ .



**SPLICE DETAIL**

**LIST OF MATERIAL**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	A/R	CW00118	WELDMENT, 20 FT CLIMBING LADDER	
2.	A/R	CW00206	WELDMENT, 10 FT CLIMBING LADDER	
3.	A/R	CW00207	WELDMENT, 5 FT CLIMBING LADDER	
4.	A/R	CS00037	PLATE, LADDER SPLICE	
5.	A/R	CS00169	CLIP, LADDER ATTACHMENT (1 1/2" - 4" ANGLES)	
6.	A/R	CS00170	CLIP, LADDER ATTACHMENT (5" - 6" ANGLES)	
7.	A/R	CS00808	CLIP, LADDER ATTACHMENT (5" - 6" ANGLES; 1/2" TO 3/4" THK.)	
8.	A/R	C40039001	J-BOLT ASSY., 3/8 (1 1/2" - 2 1/2" ANGLES)	
9.	A/R	C40039002	J-BOLT ASSY., 3/8 (3" - 4" ANGLES)	
10.	A/R	C40039003	J-BOLT ASSY., 3/8 (5" - 6" ANGLES)	
11.	A/R	C40039009	J-BOLT ASSY., 3/8 (3" - 6" ANGLES; 1/2" TO 3/4" THK)	
12.	A/R	C40024004	BOLT ASSEMBLY, 3/8 X 1 1/2 GR5	
				TOTAL WEIGHT

"SEE JOB SPECIFIC BILL OF MATERIAL FOR QTY'S."

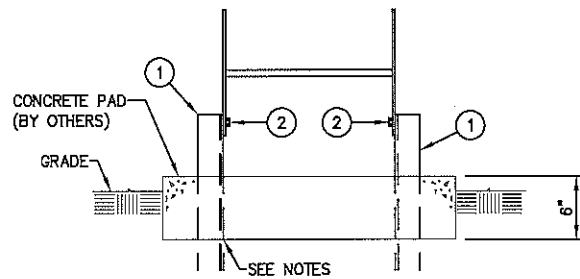
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS $\pm 1/16''$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010''$		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	BY/CHK	DESCRIPTION
3	1/11/10	DEV	DETAILED CS00808 LADDER CLIP & C40039009 J-BOLT
2	8/14/08	DKR	REVISIONS TO THIS DRAWING & UPDATED TITLE BLOCK
1	2/10/06	DKR	REVISIONS TO THIS DRAWING & UPDATED TITLE BLOCK



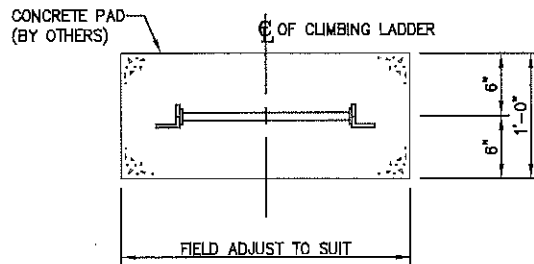
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**TYPICAL CLIMBING LADDER INSTALLATION**  
(STANDARD 16" WIDE LADDER)

DATE	8/22/05	SIZE	B	DRAWING NO.	9029450	REV	3
DRAWN BY	KMM	SCALE	None	PAGE	1 OF 1		
CHECKED BY	CHH						



**ELEVATION VIEW**  
(LADDER BASE ELEVATION)



**PLAN VIEW**  
(LADDER BASE PLAN)

LIST OF MATERIAL				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	A/R	CS00242	ANGLE, LADDER BASE SUPPORT	
2.	A/R	C40024004	BOLT ASSEMBLY, 3/8 X 1 1/2 GR5	
TOTAL WEIGHT				

**NOTE:**

1. SUPPORT ANGLES MAY BE CUT IN FIELD TO PREVENT PROTRUDING THROUGH THE BOTTOM OF THE CONCRETE BLOCK.
2. THE BEARING MATERIAL BENEATH THE CONCRETE SHALL CONSIST OF NON-EXPANSIVE AND NON-FROST SUSCEPTIBLE (NFS) MATERIAL.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DRW/CHK	DESCRIPTION

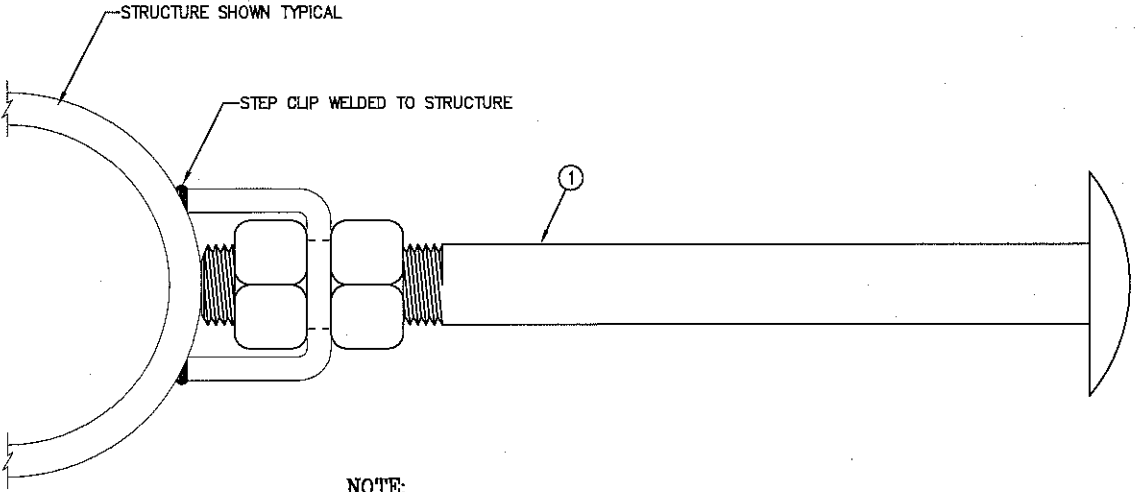
**Sabre Industries™**  
Towers and Poles

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<b>LADDER BASE INSTALLATION FOR SELF-SUPPORTING TOWERS</b>			
DATE	03/02/16	SIZE	B
DRAWN BY	LRS	DRAWING NO.	9031527
CHECKED BY	KLE	SCALE	None
		PAGE	1 OF 1
		REV	0

LIST OF MATERIAL				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	A/R	C40044002	STEP BOLT ASSEMBLY, 5/8 X 7	



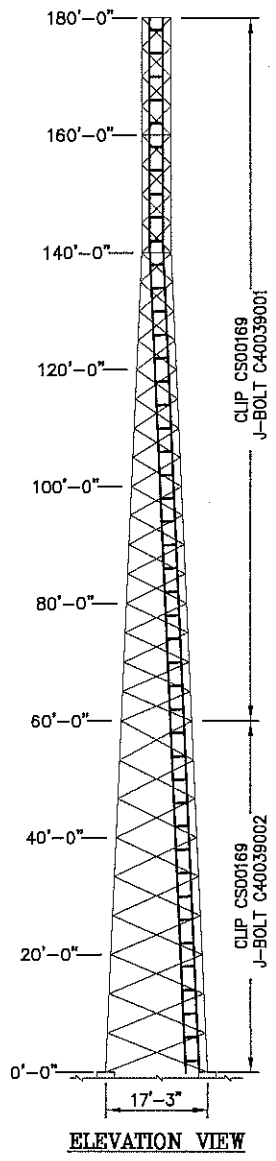
**NOTE:**  
 STEP BOLTS PROVIDED FOR CONSTRUCTION PURPOSES ARE FOR EXPERIENCED TOWER ERECTORS ONLY AND SHOULD NEVER BE USED WITHOUT PROPER SAFETY EQUIPMENT. FOR STEP BOLTS SUPPLIED AS A FORM OF CLIMBING IN TYPICAL COMMUNICATION ACTIVITY, SABRE INDUSTRIES RECOMMENDS A FALL PROTECTION PLAN BE COMPLETED BY A COMPETENT PERSON AND FOLLOWED FOR EACH CLIMB.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DRW/CHK
7	6/27/18	RVA/WH
6	3/10/04	CHP/CS
5	8/28/02	CHP/RW
4	03/13/01	AK/ESS
3	04/22/99	RVA/WH
2	11/28/95	INW/WH
1	02/15/95	IRG/PEB

**Sabre Industries™**  
Towers and Poles

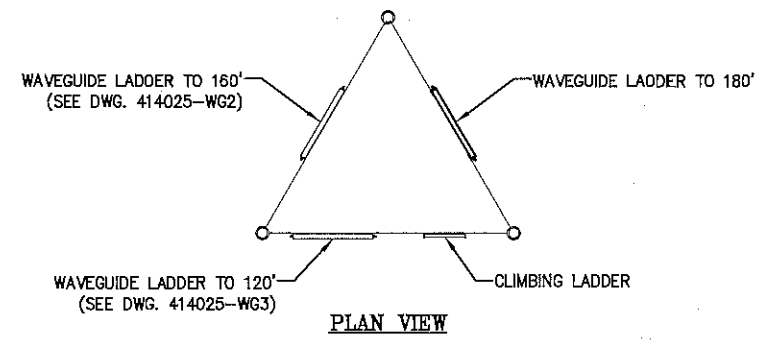
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STEP BOLT ATTACHMENT INSTALLATION			
DATE	4/21/82	SIZE	B
DRAWN BY	DPB	DRAWING NO.	900219
CHECKED BY	WHO	SCALE	None
		PAGE	1 OF 1
		REV	7



WAVEGUIDE LADDER				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	18	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	540
2	45	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	207
3	16	CS00037	PLATE, LADDER SPLICE	6
4	42	CS00169	CLIP, LADDER ATTACHMENT	23
TOTAL WEIGHT LBS				776

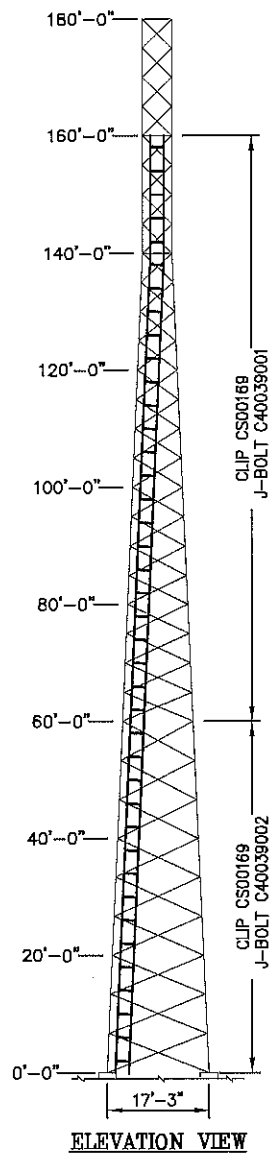
LADDER HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	18	C40039002	J-BOLT ASSEMBLY, 3/8" ø X 7 1/4 I.L.	6
6	24	C40039001	J-BOLT ASSEMBLY, 3/8" ø X 5 3/4 I.L.	7
7	122	C40024004	BOLT ASSEMBLY, 3/8" ø X 1 1/2 GRD 5	12
TOTAL WEIGHT LBS				25



**FIELD NOTES**

- FROM ELEVATION 0'-0" TO 60'-0" ATTACH WAVEGUIDE LADDER TO EACH TOWER DIAGONAL. FROM ELEVATION 60'-0" TO 180'-0" ATTACH WAVEGUIDE LADDER TO EVERY OTHER TOWER DIAGONAL.
- SEE REFERENCE DWG. 9028851 FOR WAVEGUIDE LADDER INSTALLATION AND ATTACHMENT DETAIL.
- SEE CUSTOMER REQUESTS FOR PROPER FACE POSITIONING OF ALL LADDERS.
- WAVEGUIDE LADDERS ARE NEVER TO BE USED AS A CLIMBING DEVICE.

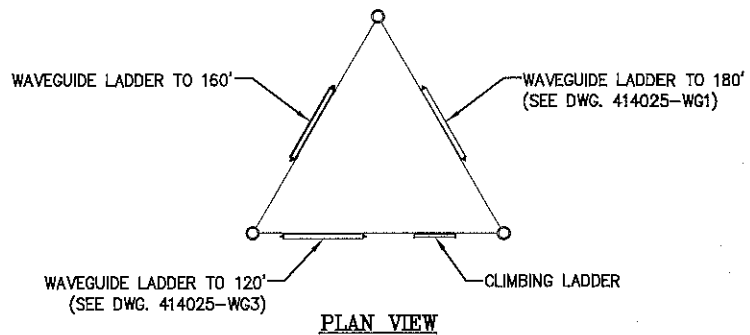
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:			W/G LADDER: 180 FT. MODEL S3R-SD						
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL			SITE: HALLSVILLE, MO						
					CUSTOMER: BOONE COUNTY, MO						
				CONFIDENTIAL This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre. © 2018 Sabre Communications Corporation. All rights reserved.		JOB NO. 414025 DATE 09/25/18 DRAWN BY DLK CHECKED BY ZAK		SIZE B DRAWING NO. 414025-WG1 SCALE NONE		REV 0 PAGE 1 OF 1	



**ELEVATION VIEW**

WAVEGUIDE LADDER				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	16	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	480
2	40	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	184
3	14	CS00037	PLATE, LADDER SPLICE	6
4	38	CS00169	CLIP, LADDER ATTACHMENT	21
TOTAL WEIGHT LBS				691

LADDER HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	18	C40039002	J-BOLT ASSEMBLY, 3/8" ø X 7 1/4 I.L.	6
6	20	C40039001	J-BOLT ASSEMBLY, 3/8" ø X 5 3/4 I.L.	6
7	108	C40024004	BOLT ASSEMBLY, 3/8" ø X 1 1/2 GRD 5	11
TOTAL WEIGHT LBS				23



**FIELD NOTES**

1. FROM ELEVATION 0'-0" TO 60'-0" ATTACH WAVEGUIDE LADDER TO EACH TOWER DIAGONAL. FROM ELEVATION 60'-0" TO 180'-0" ATTACH WAVEGUIDE LADDER TO EVERY OTHER TOWER DIAGONAL.
2. SEE REFERENCE DWG. 9028851 FOR WAVEGUIDE LADDER INSTALLATION AND ATTACHMENT DETAIL.
3. SEE CUSTOMER REQUESTS FOR PROPER FACE POSITIONING OF ALL LADDERS.
4. WAVEGUIDE LADDERS ARE NEVER TO BE USED AS A CLIMBING DEVICE.

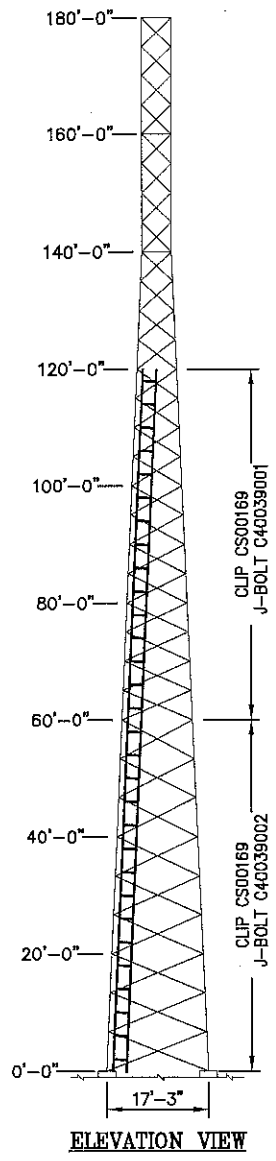
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	DRW/CHK	DESCRIPTION

**Sabre Industries**  
Towers and Poles

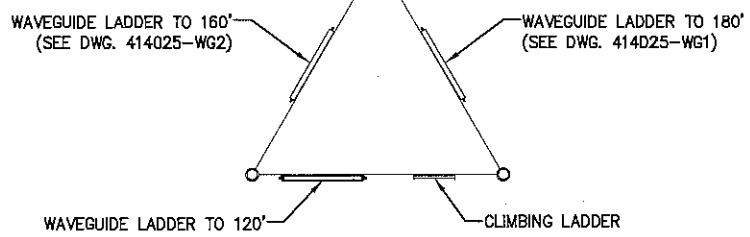
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W/G LADDER: 180 FT. MODEL S3R-SD			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE / B	DRAWING NO. 414025--WG2	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 1		PAGE 1 OF 1	



**ELEVATION VIEW**



**PLAN VIEW**

**FIELD NOTES**

1. FROM ELEVATION 0'-0" TO 60'-0" ATTACH WAVEGUIDE LADDER TO EACH TOWER DIAGONAL.  
FROM ELEVATION 60'-0" TO 120'-0" ATTACH WAVEGUIDE LADDER TO EVERY OTHER TOWER DIAGONAL.
2. SEE REFERENCE DWG. 9028851 FOR WAVEGUIDE LADDER INSTALLATION AND ATTACHMENT DETAIL.
3. SEE CUSTOMER REQUESTS FOR PROPER FACE POSITIONING OF ALL LADDERS.
4. WAVEGUIDE LADDERS ARE NEVER TO BE USED AS A CLIMBING DEVICE.

WAVEGUIDE LADDER				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	12	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	360
2	30	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	138
3	10	CS00037	PLATE, LADDER SPLICE	4
4	30	CS00169	CLIP, LADDER ATTACHMENT	17
TOTAL WEIGHT LBS				519

LADDER HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	18	C40039002	J-BOLT ASSEMBLY, 3/8" ø X 7 1/4 I.L.	6
6	12	C40039001	J-BOLT ASSEMBLY, 3/8" ø X 5 3/4 I.L.	4
7	80	C40024004	BOLT ASSEMBLY, 3/8" ø X 1 1/2 GRD 5	8
TOTAL WEIGHT LBS				18

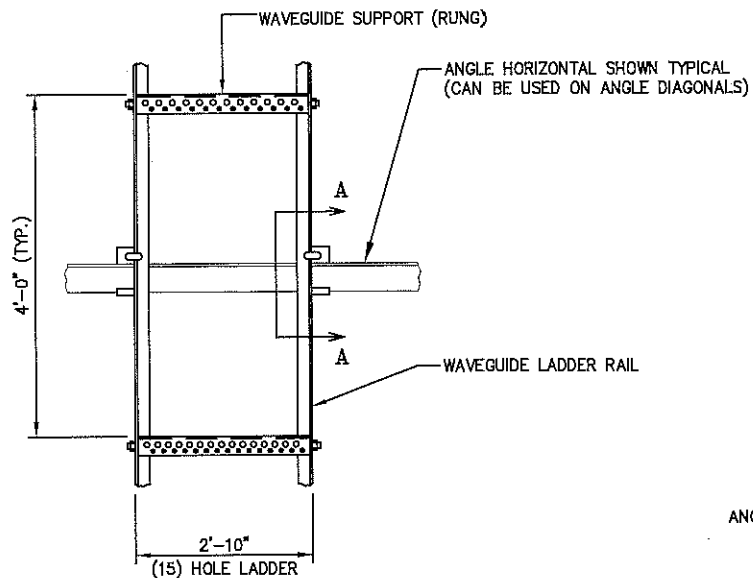
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DESCRIPTION

**W/G LADDER: 180 FT. MODEL S3R-SD**  
**SITE: HALLSVILLE, MO**  
**CUSTOMER: BOONE COUNTY, MO**

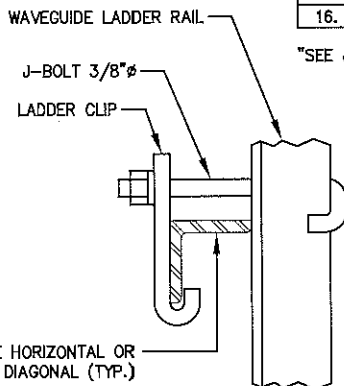
JOB NO. 414025		SIZE	DRAWING NO.		REV
DATE	09/25/18	B	414025-WG3		0
DRAWN BY	DLK	SCALE		PAGE	
CHECKED BY	ZAK	NONE		1 OF 1	

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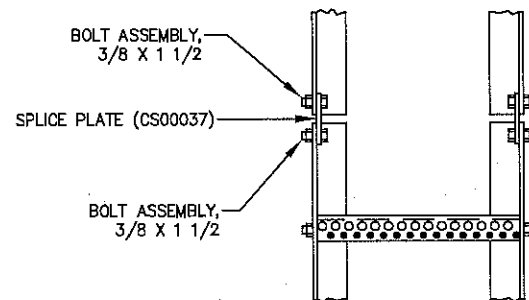




**ELEVATION**  
(TYPICAL MOUNTING DETAIL)



**SECTION A-A**



**SPLICE DETAIL**

LIST OF MATERIAL				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	A/R	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT.	
2.	A/R	CS00148	ANGLE, WAVEGUIDE LADDER RAIL 10 FT.	
3.	A/R	CS00149	ANGLE, WAVEGUIDE LADDER RAIL 5 FT.	
4.	A/R	CS00037	PLATE, LADDER SPLICE	
5.	A/R	CS00413	ANGLE WAVEGUIDE SUPPORT (15 HOLE)	
6.	A/R	CS00169	CLIP, LADDER ATTACHMENT (1 1/2" - 4" ANGLES)	
7.	A/R	CS00170	CLIP, LADDER ATTACHMENT (5" - 6" ANGLES)	
8.	A/R	CS00171	CLIP, LADDER ATTACHMENT (1 1/2" - 6" ANGLES: 1/2" THK. & UNDER)	
9.	A/R	CSD0808	CLIP, LADDER ATTACHMENT (4" - 6" ANGLES: 1/2" TO 3/4" THK.)	
10.	A/R	CS01212	CLIP, LADDER ATTACHMENT (8" ANGLES)	
11.	A/R	C40039001	J-BOLT ASSY., 3/8 (1 1/2" - 2 1/2" ANGLES)	
12.	A/R	C40039002	J-BOLT ASSY., 3/8 (3" - 4" ANGLES)	
13.	A/R	C40039003	J-BOLT ASSY., 3/8 (5" - 6" ANGLES)	
14.	A/R	C40024004	BOLT ASSEMBLY, 3/8 X 1 1/2 GR5	
15.	A/R	C40039009	J-BOLT ASSY., 3/8 (3" - 6" ANGLES, 1/2" & 3/4" THK)	
16.	A/R	C40039012	J-BOLT ASSY., 3/8 (8" ANGLES, 1/2" & 3/4" THK)	
				TOTAL WEIGHT

"SEE JOB SPECIFIC BILL OF MATERIAL FOR QTY'S."

**NOTE:**  
MAXIMUM SPACING OF LADDER CLIPS  
UP THE TOWER TO BE ±10'-0".

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
ANGLES ± 1/2 DEG.		
DECIMALS ± .010"		
REV	DATE	DESCRIPTION
3	4/5/18	DR. ZAK CORRECTED DESCRIPTION ON ITEM 9 (CS00808) (GOOD RANGE TO 2" TO 8" ANGLES (WAS 5" - 8"))
2	11/28/07	DR. ZAK AND CHH. CORRECTED CS00037, CS01212 & ITEMS C40039001 & C40039002
1	11/18/05	KW. CS UPDATED TO 8" SIZE THREADED

**Sabre Industries**  
Towers and Poles

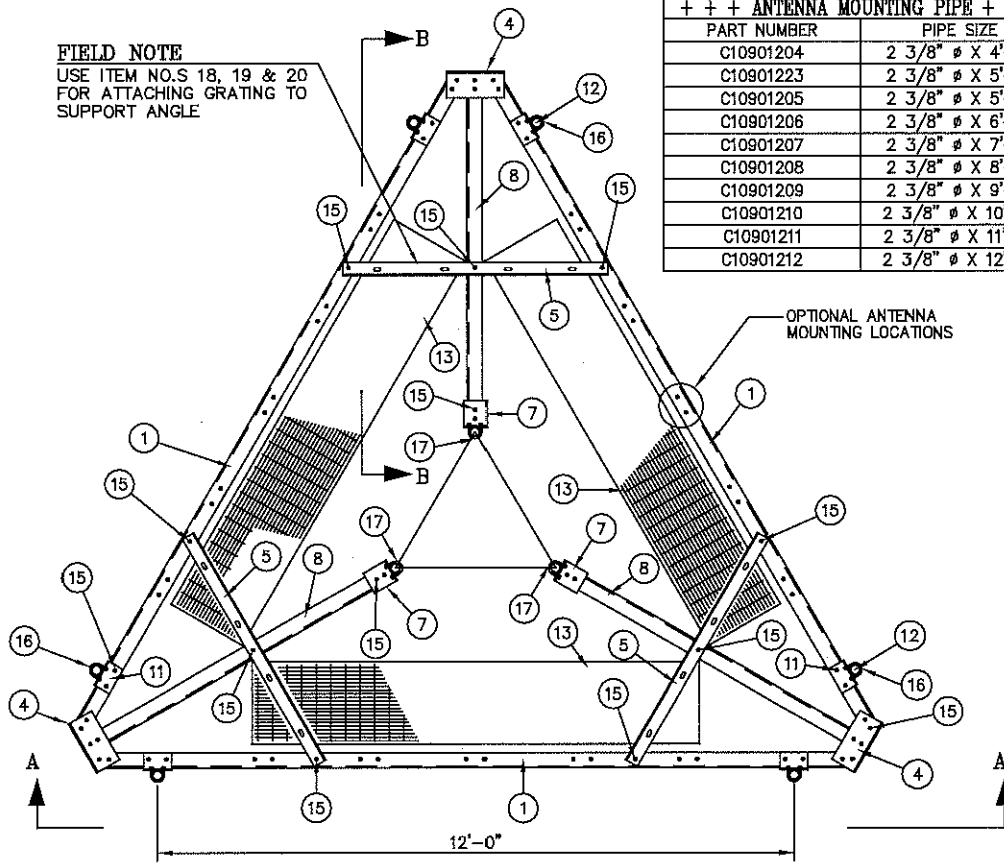
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**TYPICAL WAVEGUIDE LADDER INSTALLATION**  
15 HOLE RUNG - 7/16"φ & 3/4"φ

DATE	5/22/03	SIZE	B	DRAWING NO.	9028851	REV	3
DRAWN BY	CHH	SCALE	None	PAGE	1 OF 1		
CHECKED BY	ZAK						

**FIELD NOTE**

USE ITEM NO.S 18, 19 & 20 FOR ATTACHING GRATING TO SUPPORT ANGLE



**PLAN VIEW**

SEE SHEET 2 OF 2 FOR SECTIONS "A-A" & "B-B".

**NOTES:**

1. THE MOUNTING ARRANGEMENT OF THE MOUNTS SHOWN ON THE PLAN VIEW ARE TYPICAL ONLY, AND MAY HAVE TO BE ALTERED AT THE TIME OF INSTALLATION TO FIT THE ACTUAL REQUIREMENTS.
2. TOTAL APPROXIMATE WEIGHT: 1996 LBS. (GALV.)

+++ ANTENNA MOUNTING PIPE +++	
PART NUMBER	PIPE SIZE
C10901204	2 3/8" $\phi$ X 4'-0"
C10901223	2 3/8" $\phi$ X 5'-0"
C10901205	2 3/8" $\phi$ X 5'-3"
C10901206	2 3/8" $\phi$ X 6'-0"
C10901207	2 3/8" $\phi$ X 7'-0"
C10901208	2 3/8" $\phi$ X 8'-6"
C10901209	2 3/8" $\phi$ X 9'-0"
C10901210	2 3/8" $\phi$ X 10'-6"
C10901211	2 3/8" $\phi$ X 11'-0"
C10901212	2 3/8" $\phi$ X 12'-0"

CK00015 ROTATABLE PLATFORM ANGLE KIT				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
1.	3	CS00321	ANGLE, TOP CHORD	CS00321
2.	3	CS00322	ANGLE, BOTTOM CHORD	CS00322
3.	18	CS00323	ANGLE, DIAGONAL	CS00323
4.	6	CS00320	ANGLE, CORNER SUPPORT (SHORT)	CS00320
5.	6	CS00324	ANGLE, CORNER SUPPORT (LONG)	CS00324
6.	9	CS00319	ANGLE, VERTICAL (BOOM)	CS00319

TOWER LEG CONNECTION MATERIAL				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
7.	6	CS00308	ANGLE, LEG MOUNT 2" $\phi$	CS00308

CK00048 MISCELLANEOUS FRAMING MATERIAL				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
8.	3	CS00312	ANGLE, TOP CHORD (BOOM)	CS00312
9.	3	CS00315	ANGLE, BOTTOM CHORD (BOOM)	CS00315
10.	6	CS00318	ANGLE, DIAGONAL (BOOM)	CS00318

ANTENNA MOUNTING PIPE				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
11.	12	CS00265	ANGLE, PIPE MOUNT	CS00265
12.	6	C109012	ANTENNA MTG. PIPE, 2 3/8" $\phi$ X (LENGTH VARIES)	+++

PLATFORM GRATING				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
13.	3	C20137005	PLATFORM GRATING	C20137005

HARDWARE				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
14.	66	---	BOLT ASSEMBLY, 5/8" $\phi$ X 1 3/4 A325	C40026022
15.	90	---	BOLT ASSEMBLY, 5/8" $\phi$ X 2 A325	C40026023
16.	12	C40034-3	U-BOLT ASSEMBLY 5/8 X 3 1/16 C/C	C40034023
17.	12	C40034-3	U-BOLT ASSEMBLY 5/8 X 2 11/16 C/C	C40034022
18.	12	---	BOLT ASSEMBLY, 3/8" $\phi$ X 3 3/4 GRD 5	C40024013
19.	12	---	FLATWASHER, 3/8	C40031001
20.	12	---	FENDER WASHER, 3/8 X 1 1/2 X .097	C40046001

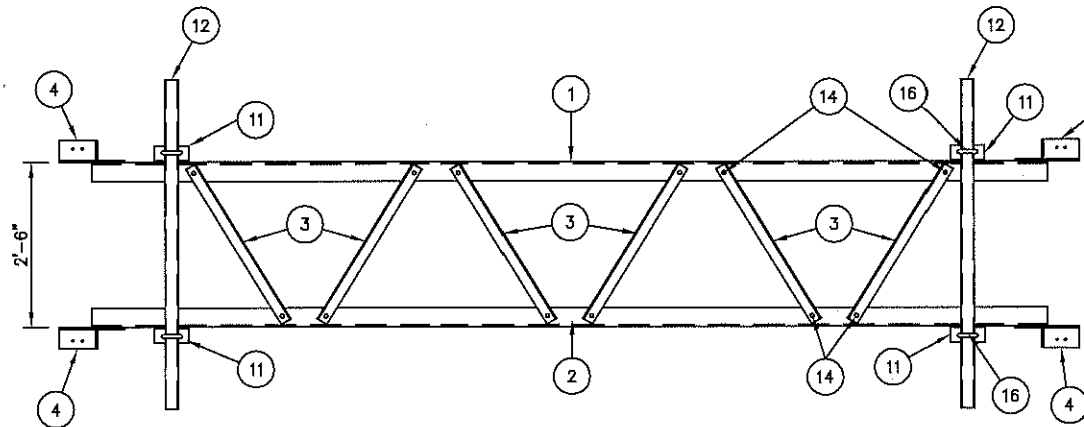
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL: FITS 2" O.D. LEG 5'-0" C/C LEG	
TOLERANCES: FRACTIONS $\pm$ 1/16" ANGLES $\pm$ 1/2 DEG. DECIMALS $\pm$ .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	DRW/CHK	DESCRIPTION



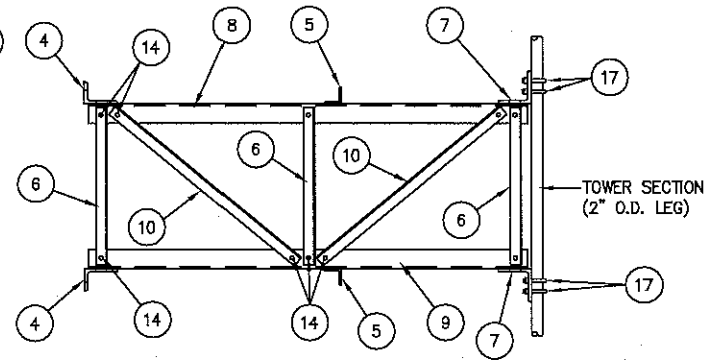
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**INSTALLATION DETAIL FOR ANTENNA MOUNTING FRAME WITH GRATING (2 PIPE)**

DATE	3/30/17	SIZE	B	DRAWING NO.	9031598	REV	0
DRAWN BY	DJB	SCALE	None	PAGE	1	OF 2	2
CHECKED BY	ZAK						



SECTION A-A



SECTION B-B

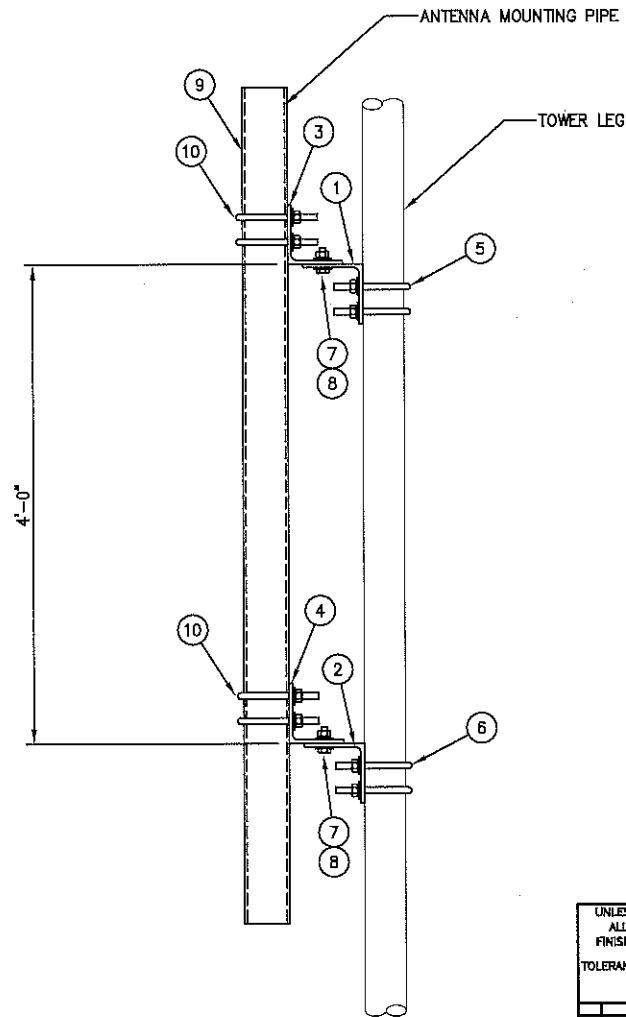
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL: FITS 2" O.D. LEG 5'-0" C/C LEG		
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL.		
REV	DATE	DRW/CHK	DESCRIPTION		

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INSTALLATION DETAIL FOR ANTENNA  
MOUNTING FRAME WITH GRATING  
(2 PIPE)

DATE	3/30/17	SIZE	B	DRAWING NO.	9031598	REV	0
DRAWN BY	DJB	SCALE	None	PAGE	2 OF 2		
CHECKED BY	ZAK						



ELEVATION VIEW

LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173008

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 2"Ø LEG	15
2.	1	CS00216	BOTTOM LEG MOUNT FOR 2"Ø LEG	15
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2"Ø PIPE	15
4.	1	CS00214	BOTTOM PIPE MOUNT FOR 4 1/2"Ø PIPE	15
5.	2	C40034022	U-BOLT ASSEMBLY 5/8" Ø X 2 11/16 C-C (TOP LEG MOUNT)	3
6.	2	C40034022	U-BOLT ASSEMBLY 5/8" Ø X 2 11/16 C-C (BOTTOM LEG MOUNT)	3
7.	4	C40026024	BOLT ASSEMBLY, 5/8"Ø X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8"Ø (F436)	1
KIT WEIGHT LBS				69

LIST OF ADDITIONAL MATERIALS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67
TOTAL WEIGHT LBS				136

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS INCLUDE  
FINISHES AND ARE IN INCHES

TOLERANCES: FRACTIONS ± 1/16"  
ANGLES ± 1/2 DEG.  
DECIMALS ± .010"

MATERIAL:  
TOLERANCES DO NOT APPLY  
TO RAW MATERIAL.



PIPE MOUNTS: 170' ELEVATION

SITE: HALLSVILLE, MO

CUSTOMER: BOONE COUNTY, MO

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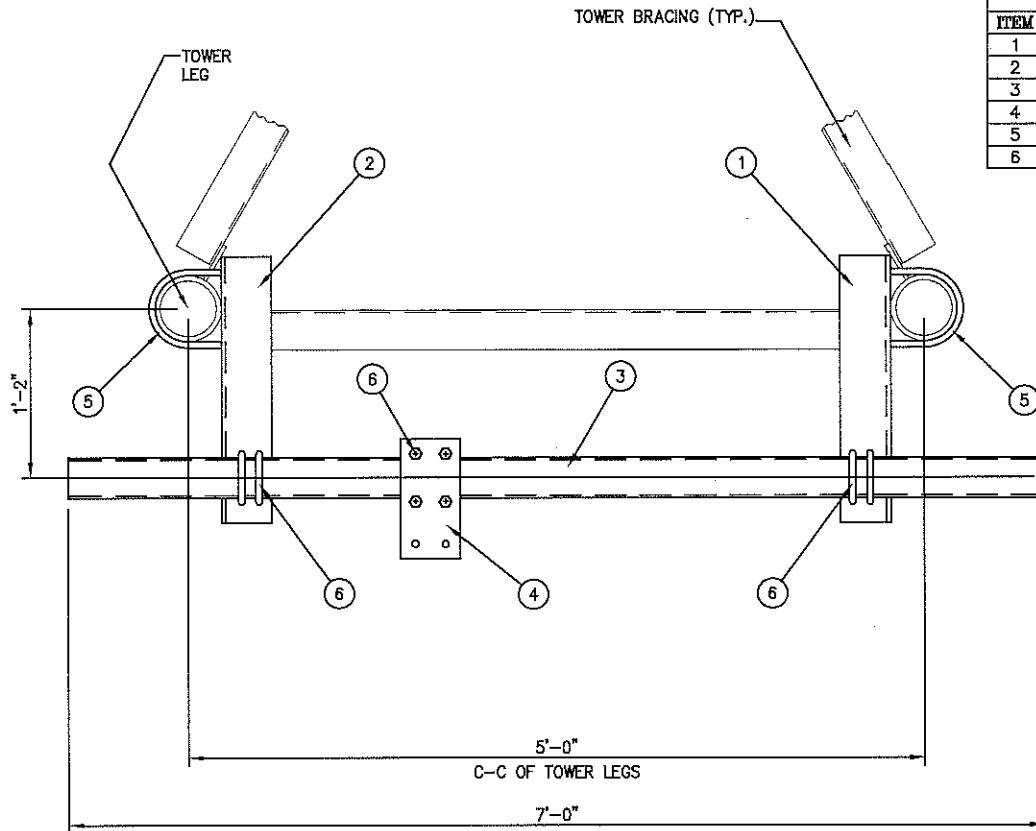
REV	DATE	DRWCHK	DESCRIPTION

JOB NO. 414025	SIZE /B	DRAWING NO. 414025-PM1	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE
		PAGE 1 OF 1	



C10105020 STIFFARM MOUNT FOR PIPE MOUNT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	1	CS00680	ANGLE, STIFFARM MOUNT, 1 1/4" Ø THRU 5" Ø LEG	24
2	1	CS00681	ANGLE, STIFFARM MOUNT, 1 1/4" Ø THRU 5" Ø LEG	24
3	1	CS00509	TUBE, STIFFARM 3 1/2 X 3 1/2" X 3/16 X 7'-0"	59
4	1	CS00502	PLATE, STIFFARM	8
5	4	C40034022	U-BOLT ASSEMBLY 5/8" Ø X 2 11/16 C-C	6
6	6	C40035003	U-BOLT ASSEMBLY 5/8" Ø X 4 1/4 C-C	11
TOTAL WEIGHT LBS				132



PLAN VIEW

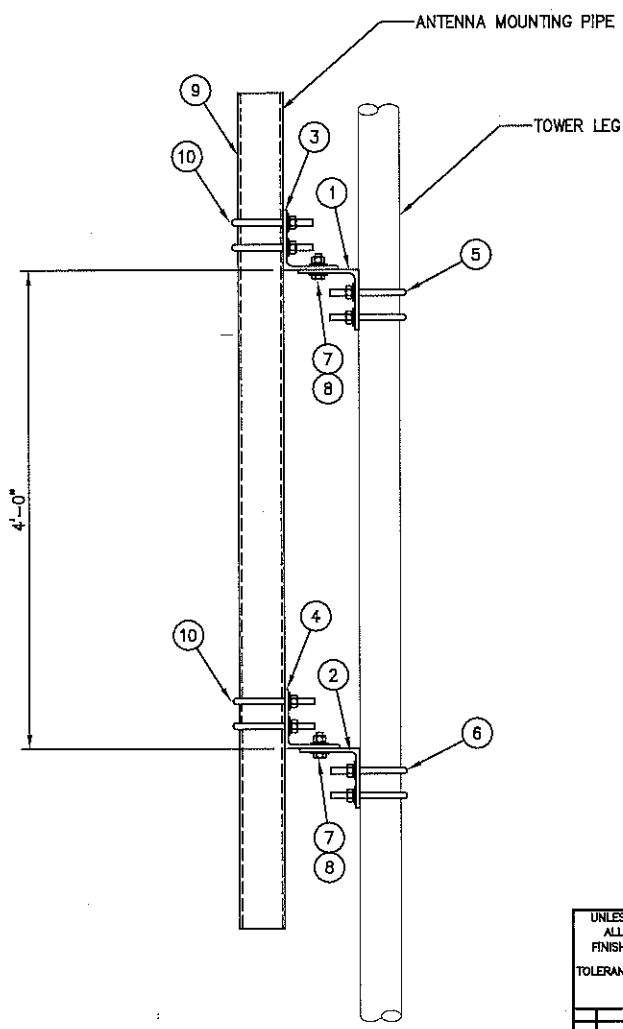
NOTE: DISH MOUNT TIEBACK MAY BE MOUNTED ON THE INSIDE OF THE TOWER.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DESCRIPTION



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STIFFARM MOUNTS: 170' ELEVATION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-DT1	REV 0
DATE 09/25/18	DRAWN BY DLK	SCALE NONE	PAGE 1 OF 1
CHECKED BY ZAK			



ELEVATION VIEW

LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173011

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 2"Ø LEG	15
2.	1	CS00216	BOTTOM LEG MOUNT FOR 2 1/2"Ø LEG	15
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2"Ø PIPE	15
4.	1	CS00214	BOTTOM PIPE MOUNT FOR 4 1/2"Ø PIPE	15
5.	2	C40034022	U-BOLT ASSEMBLY 5/8" Ø X 2 11/16 C-C (TOP LEG MOUNT)	3
6.	2	C40034024	U-BOLT ASSEMBLY 5/8" Ø X 3 3/16 C-C (BOTTOM LEG MOUNT)	3
7.	4	C40026024	BOLT ASSEMBLY, 5/8"Ø X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8"Ø (F436)	1
KIT WEIGHT LBS				69

LIST OF ADDITIONAL MATERIALS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67
TOTAL WEIGHT LBS				136

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION

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**PIPE MOUNTS: 160' ELEVATION**

**SITE: HALLSVILLE, MO**

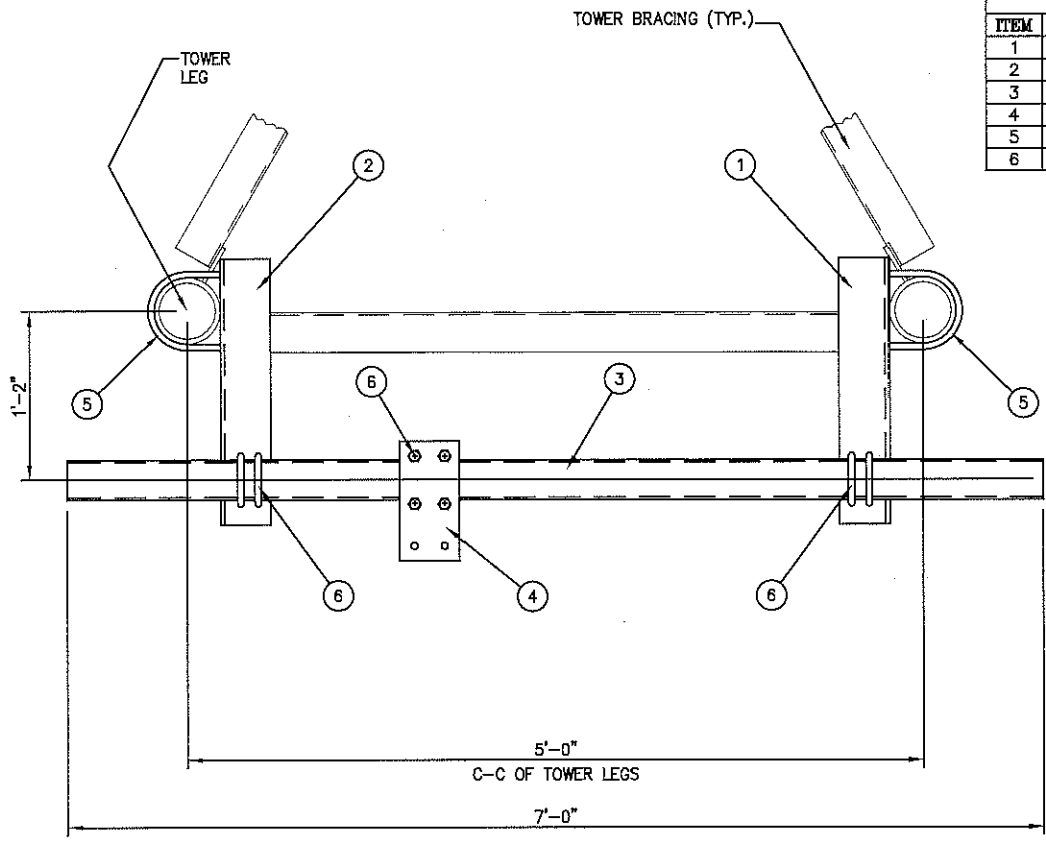
**CUSTOMER: BOONE COUNTY, MO**

JOB NO. 414025		SIZE	DRAWING NO.		REV
DATE	09/25/18	B	414025-PM2		0
DRAWN BY DLK		SCALE		PAGE	
CHECKED BY ZAK		NONE		1 OF 1	



**C10105020 STIFFARM MOUNT FOR PIPE MOUNT**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	1	CS00680	ANGLE, STIFFARM MOUNT, 1 1/4" ø THRU 5" ø LEG	24
2	1	CS00681	ANGLE, STIFFARM MOUNT, 1 1/4" ø THRU 5" ø LEG	24
3	1	CS00509	TUBE, STIFFARM 3 1/2 X 3 1/2" X 3/16 X 7'-0"	59
4	1	CS00502	PLATE, STIFFARM	8
5	4	C40034022	U-BOLT ASSEMBLY 5/8" ø X 2 11/16 C-C	6
6	6	C40035003	U-BOLT ASSEMBLY 5/8" ø X 4 1/4 C-C	11
TOTAL WEIGHT LBS				132



**PLAN VIEW**

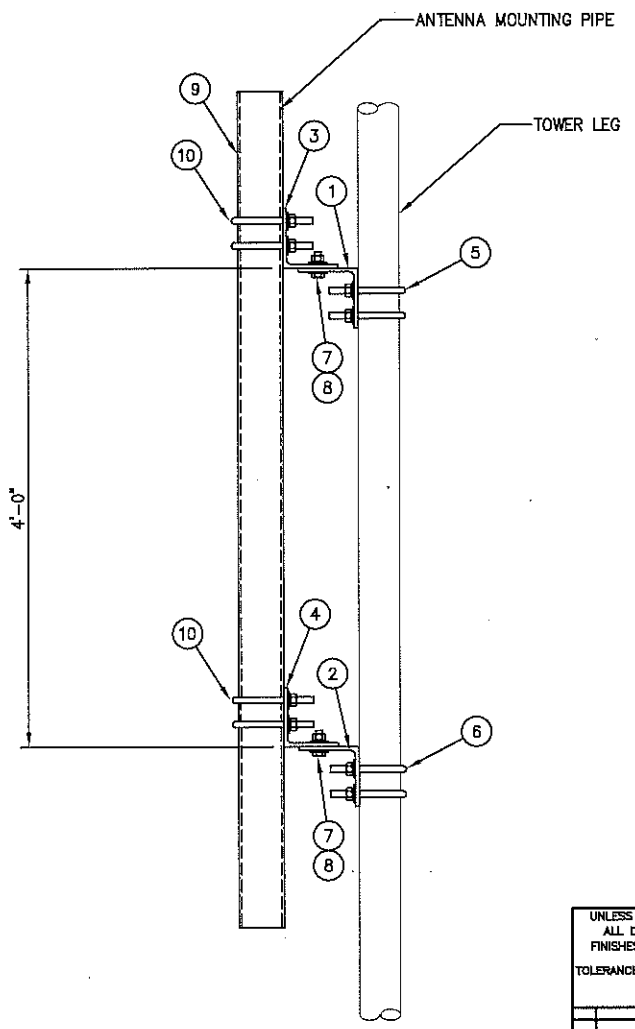
NOTE: DISH MOUNT TIEBACK MAY BE MOUNTED ON THE INSIDE OF THE TOWER.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DESCRIPTION

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<b>STIFFARM MOUNTS: 160' ELEVATION (ABOVE SPLICE)</b>			
<b>SITE: HALLSVILLE, MO</b>			
<b>CUSTOMER: BOONE COUNTY, MO</b>			
JOB NO. 414025	SIZE /B	DRAWING NO. 414025-DT2	REV 0
DATE 09/25/18	DRAWN BY DLK	SCALE NONE	PAGE 1 OF 1
CHECKED BY ZAK			



**LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173013**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 2 1/2" Ø LEG	15
2.	1	CS00216	BOTTOM LEG MOUNT FOR 2 1/2" Ø LEG	15
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2" Ø PIPE	15
4.	1	CS00214	BOTTOM PIPE MOUNT FOR 4 1/2" Ø PIPE	15
5.	2	C40034024	U-BOLT ASSEMBLY 5/8" Ø X 3 3/16 C-C (TOP LEG MOUNT)	3
6.	2	C40034024	U-BOLT ASSEMBLY 5/8" Ø X 3 3/16 C-C (BOTTOM LEG MOUNT)	3
7.	4	C40026024	BOLT ASSEMBLY, 5/8" Ø X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8" Ø (F436)	1
KIT WEIGHT LBS				69

**LIST OF ADDITIONAL MATERIALS**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67
TOTAL WEIGHT LBS				136

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DESCRIPTION

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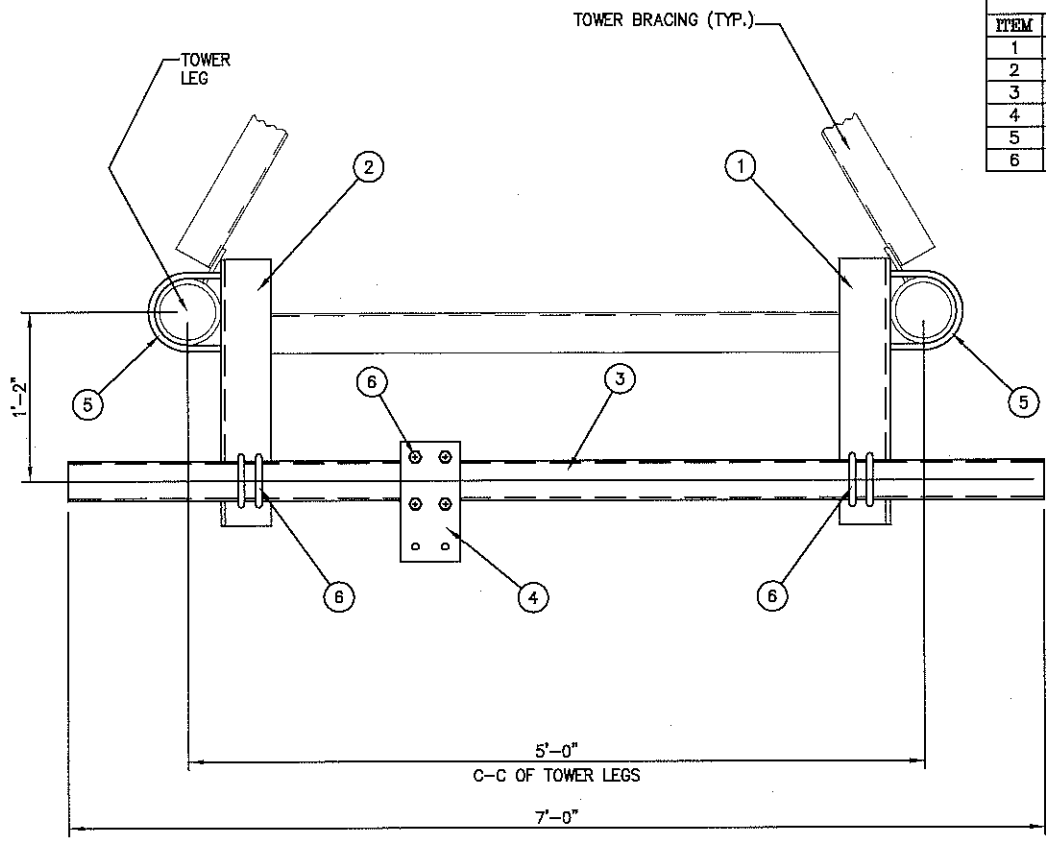
PIPE MOUNTS: 150' ELEVATION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-PM3	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 1			





C10105022 STIFFARM MOUNT FOR PIPE MOUNT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	1	CS00680	ANGLE, STIFFARM MOUNT, 1 1/4" Ø THRU 5" Ø LEG	24
2	1	CS00681	ANGLE, STIFFARM MOUNT, 1 1/4" Ø THRU 5" Ø LEG	24
3	1	CS00509	TUBE, STIFFARM 3 1/2 X 3 1/2" X 3/16 X 7'-0"	59
4	1	CS00502	PLATE, STIFFARM	8
5	4	C40034024	U-BOLT ASSEMBLY 5/8" Ø X 3 3/16 C-C	7
6	6	C40035003	U-BOLT ASSEMBLY 5/8" Ø X 4 1/4 C-C	11
TOTAL WEIGHT LBS				133



PLAN VIEW

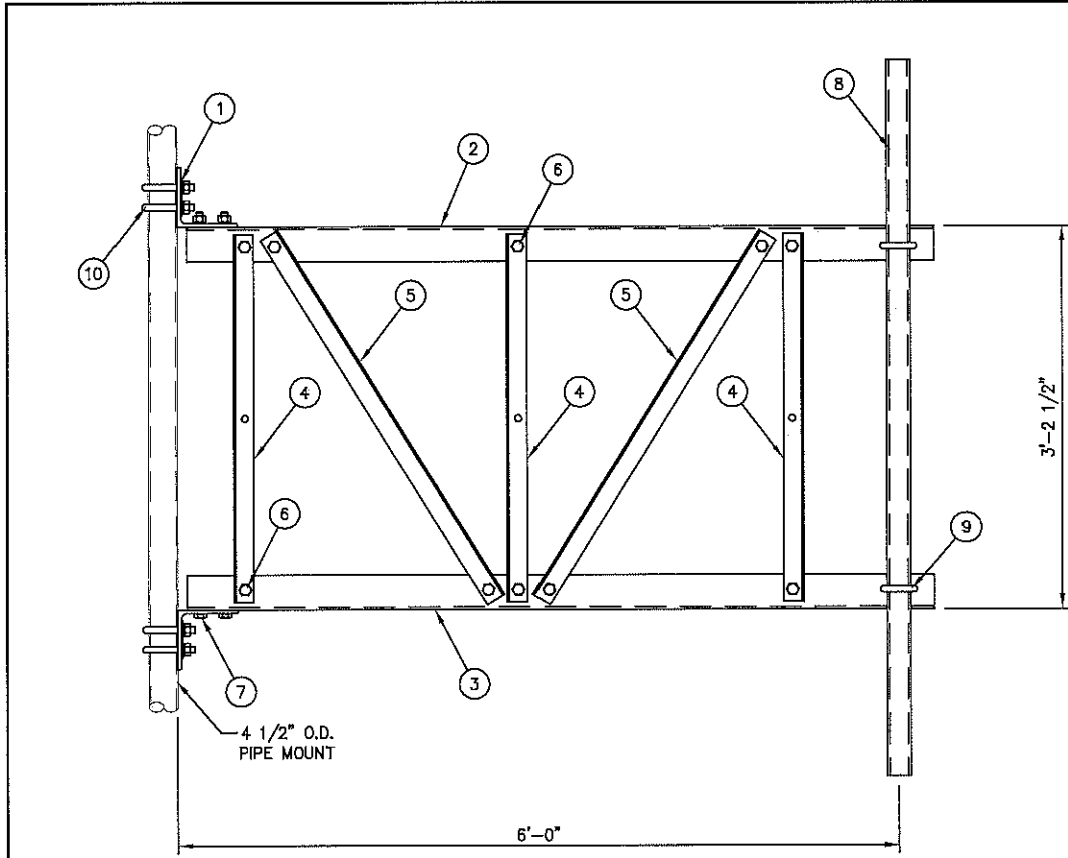
NOTE: DISH MOUNT TIEBACK MAY BE MOUNTED ON THE INSIDE OF THE TOWER.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DESCRIPTION

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STIFFARM MOUNTS: 150' ELEVATION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-DT3	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 1			



C10151106 6 FT. SIDEARM ASSEMBLY			
1	CK00061	SIDEARM ANGLE KIT	138
1	--	MISC HARDWARE (FRAMING)	6
1	C10900110	PIPE ANTENNA MOUNTING KIT 2 3/8" ø X 10'-0	35
4	C40034032	U-BOLT ASSEMBLY 5/8" ø X 5 3/16 C-C	9
TOTAL WEIGHT LBS			188

CK00061 KIT LIST OF MATERIAL.				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	2	CS00067	ANGLE, BOOM SUPPORT	23
2	1	CS01225	ANGLE, TOP CHORD	37
3	1	CS01226	ANGLE, BOTTOM CHORD	37
4	3	CS00065	ANGLE, VERTICAL	23
5	2	CS01228	ANGLE, DIAGONAL	18
TOTAL WEIGHT LBS				138

MISC HARDWARE (FRAMING)				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026022	BOLT ASSEMBLY, 5/8" ø X 1 3/4 A325	4
7	4	C40026023	BOLT ASSEMBLY, 5/8" ø X 2 A325	2
TOTAL WEIGHT LBS				6

C10900110 ANTENNA PIPE MOUNTING KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
8	1	C10981224	ANTENNA MTG. PIPE 2 3/8" ø X 10'-0	32
9	2	C40034023	U-BOLT ASSEMBLY 5/8" ø X 3 1/16 C-C	3
TOTAL WEIGHT LBS				35

MISC HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
10	4	C40034032	U-BOLT ASSEMBLY 5/8" ø X 5 3/16 C-C	9
TOTAL WEIGHT LBS				9

**NOTES:**

- IF THE MOUNT IS NOT ON THE STRAIGHT PORTION OF THE TOWER SEE SITE SPECIFIC PIPE MOUNT.
- QUANTITIES SHOWN IN LIST OF MATERIALS ARE FOR ONE (1) SIDEARM ASSEMBLY ONLY.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:		
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL.		
REV	DATE	DRW/CHK	DESCRIPTION		

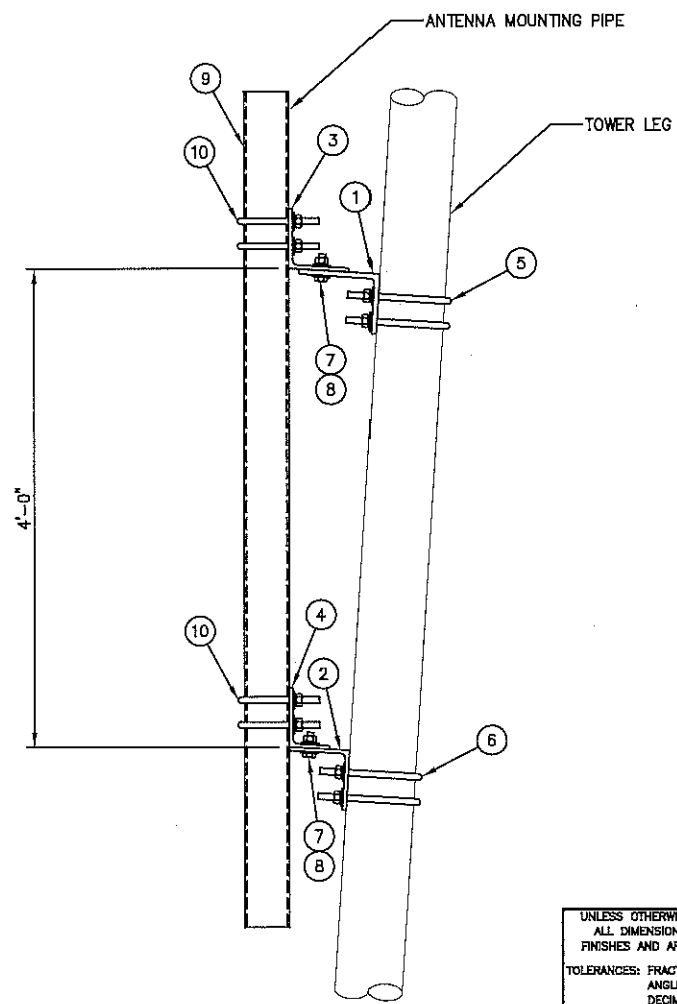
**6 FT. SIDEARMS: 125' ELEVATION**

**SITE: HALLSVILLE, MO**

**CUSTOMER: BOONE COUNTY, MO**

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JOB NO. 414025		SIZE	DRAWING NO.		REV
DATE	09/25/18	B	414025-SA1		0
DRAWN BY	DLK	SCALE		PAGE	
CHECKED BY	ZAK	NONE		1 OF 1	



**LIST OF MATERIALS FOR TAPERED LEG PIPE MOUNT KIT C10174021**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 3"Ø LEG	15
2.	1	CS00215	BOTTOM LEG MOUNT FOR 3"Ø LEG	12
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2"Ø PIPE	15
4.	1	CS00215	BOTTOM PIPE MOUNT FOR 4 1/2"Ø PIPE	12
5.	2	C40034026	U-BOLT ASSEMBLY 5/8" Ø X 3 11/16 C-C (TOP LEG MOUNT)	4
6.	2	C40034026	U-BOLT ASSEMBLY 5/8" Ø X 3 11/16 C-C (BOTTOM LEG MOUNT)	4
7.	4	C40026024	BOLT ASSEMBLY, 5/8"Ø X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8"Ø (F436)	1
KIT WEIGHT LBS				65

**LIST OF ADDITIONAL MATERIALS**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67
TOTAL WEIGHT LBS				132

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DRW/CHK	DESCRIPTION



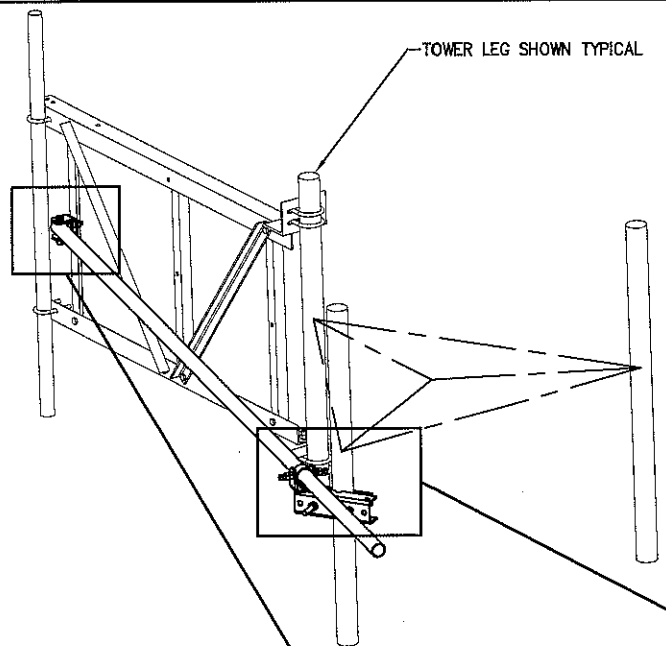
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<b>PIPE MOUNTS FOR SIDEARMS: 125' ELEVATION</b>			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE /B	DRAWING NO. 414025-PM4	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 1		PAGE 1 OF 1	

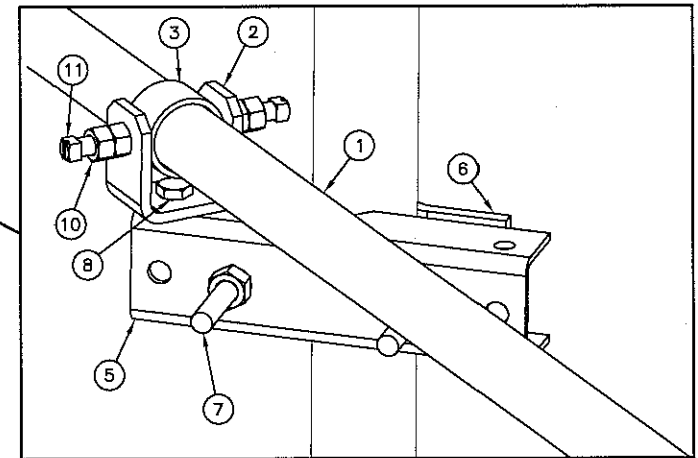
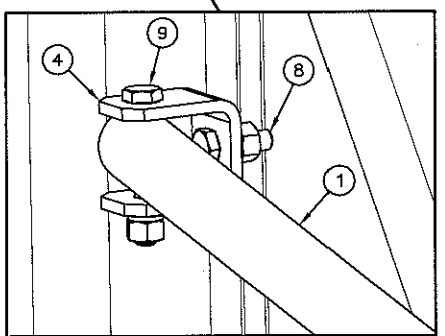


**C10179002 SWIVEL KNUCKLE TIEBACK KIT**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	1	CS02089	PIPE, 2 3/8" O.D. X 0.148 X 13'-3	43
2.	1	CW00013	SWIVEL PLATE WELDMENT	3
3.	1	CS00097	PIPE, 2 7/8" O.D. X 0.203 X 0'-1 3/4	1
4.	1	CS00098	BENT SWIVEL PLATE	3
5.	1	CS01360	PLATE, MOUNTING BRACKET (FORMED CHANNEL)	9
6.	1	CS01361	PLATE, 2 HOLE ADAPTER CLAMP	3
7.	2	C40140001	BOLT ASSEMBLY, 3/4 X 10 A307 W/NUT, LKW, FLW	4
8.	2	C40026023	BOLT ASSEMBLY, 5/8 X 2 A325	1
9.	1	C40026033	BOLT ASSEMBLY, 5/8 X 4 1/2 A325	1
10.	2	C40042007	HEX NUT, 5/8 A194 2H	1
11.	2	C40998007	SQ. HEAD SET SCREW, 5/8 X 2 1/2	1
<b>TOTAL WEIGHT</b>				<b>70</b>



**ISOMETRIC VIEW**

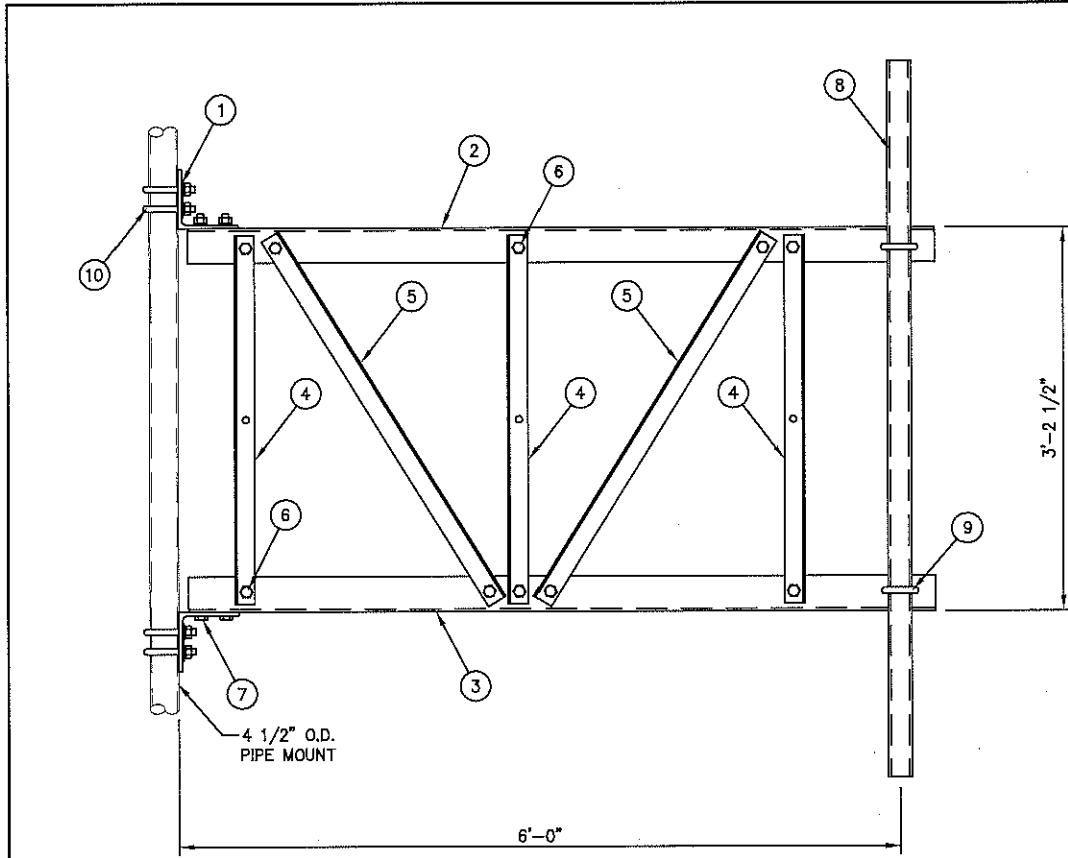


UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DRW/CHK	DESCRIPTION

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<b>SWIVEL KNUCKLE TIEBACKS: 125' ELEVATION</b>			
<b>SITE: HALLSVILLE, MO</b>			
<b>CUSTOMER: BOONE COUNTY, MO</b>			
JOB NO. 414025	SIZE /B	DRAWING NO. 414025-ST1	REV 0
DATE 08/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE PAGE 1 OF 1



C10151106 6 FT. SIDEARM ASSEMBLY			
1	CK00061	SIDEARM ANGLE KIT	138
1	---	MISC HARDWARE (FRAMING)	6
1	C10900105	PIPE ANTENNA MOUNTING KIT 2 3/8" ø X 5'-0	19
4	C40034032	U-BOLT ASSEMBLY 5/8" ø X 5 3/16 C-C	9
TOTAL WEIGHT LBS			172

CK00061 KIT LIST OF MATERIAL				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	2	CS00067	ANGLE, BOOM SUPPORT	23
2	1	CS01225	ANGLE, TOP CHORD	37
3	1	CS01226	ANGLE, BOTTOM CHORD	37
4	3	CS00065	ANGLE, VERTICAL	23
5	2	CSD1228	ANGLE, DIAGONAL	18
TOTAL WEIGHT LBS				138

MISC HARDWARE (FRAMING)				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026022	BOLT ASSEMBLY, 5/8" ø X 1 3/4 A325	4
7	4	C40026023	BOLT ASSEMBLY, 5/8" ø X 2 A325	2
TOTAL WEIGHT LBS				6

C10900105 ANTENNA PIPE MOUNTING KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
8	1	C10981223	ANTENNA MTG. PIPE 2 3/8" ø X 5'-0	16
9	2	C40034023	U-BOLT ASSEMBLY 5/8" ø X 3 1/16 C-C	3
TOTAL WEIGHT LBS				19

MISC HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
10	4	C40034032	U-BOLT ASSEMBLY 5/8" ø X 5 3/16 C-C	9
TOTAL WEIGHT LBS				9

**NOTES:**

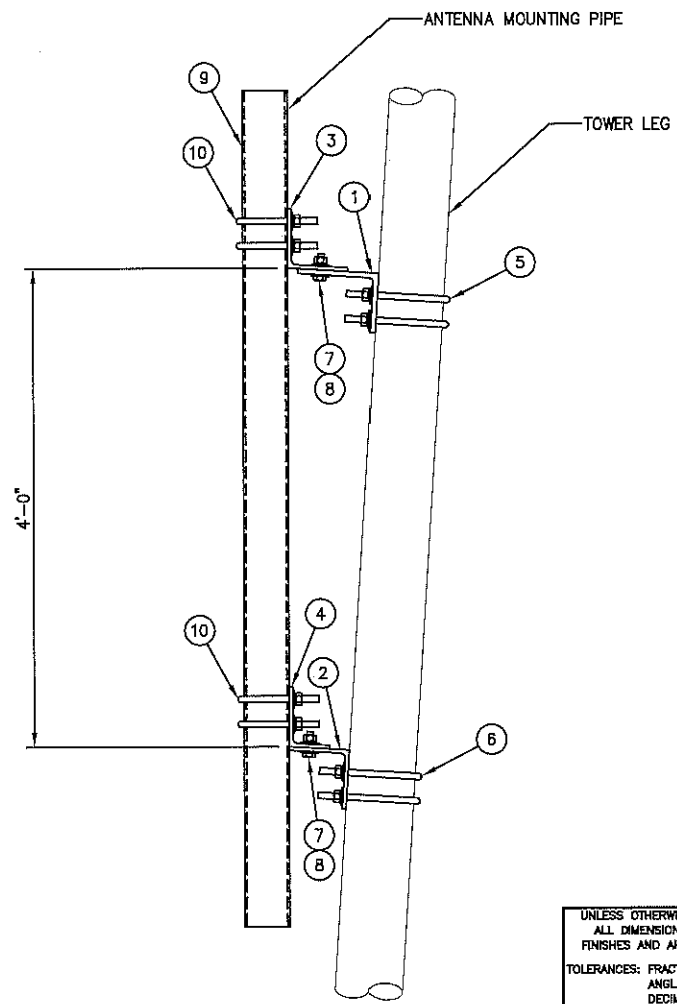
- IF THE MOUNT IS NOT ON THE STRAIGHT PORTION OF THE TOWER SEE SITE SPECIFIC PIPE MOUNT.
- QUANTITIES SHOWN IN LIST OF MATERIALS ARE FOR ONE (1) SIDEARM ASSEMBLY ONLY.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:		
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL.		
REV	DATE	DRW/CHK	DESCRIPTION		



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6 FT. SIDEARMS: 90' ELEVATION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025		SIZE	DRAWING NO.
DATE 09/25/18		B	414025-SA2
DRAWN BY DLK		REV 0	
CHECKED BY ZAK		SCALE	PAGE
		NONE	1 OF 1



**LIST OF MATERIALS FOR TAPERED LEG PIPE MOUNT KIT C10174029**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 3 1/2" Ø LEG	15
2.	1	CS00215	BOTTOM LEG MOUNT FOR 3 1/2" Ø LEG	12
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2" Ø PIPE	15
4.	1	CS00215	BOTTOM PIPE MOUNT FOR 4 1/2" Ø PIPE	12
5.	2	C40034028	U-BOLT ASSEMBLY 5/8" Ø X 4 3/16 C-C (TOP LEG MOUNT)	4
6.	2	C40034028	U-BOLT ASSEMBLY 5/8" Ø X 4 3/16 C-C (BOTTOM LEG MOUNT)	4
7.	4	C40026024	BOLT ASSEMBLY, 5/8" Ø X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8" Ø (F436)	1
KIT WEIGHT LBS				65

**LIST OF ADDITIONAL MATERIALS**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67
TOTAL WEIGHT LBS				132

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION

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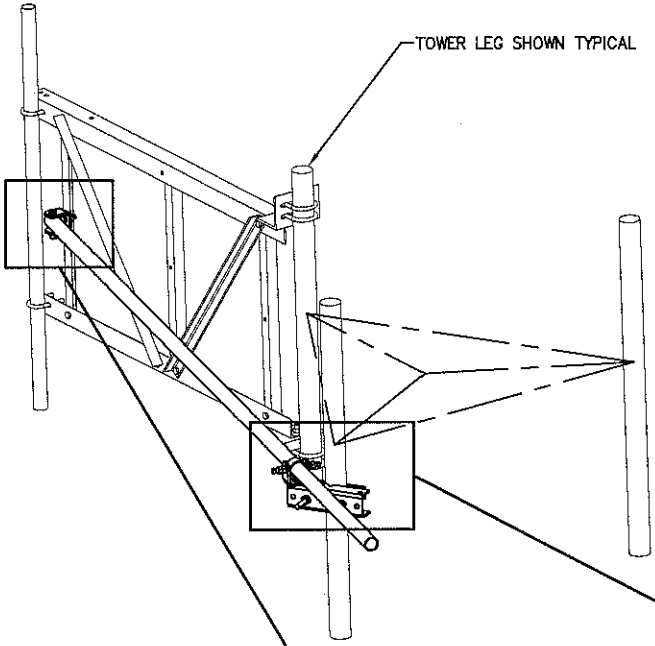
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<b>PIPE MOUNTS FOR SIDEARMS: 90' ELEVATION</b>			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE / B	DRAWING NO. 414025-PM5	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE
		PAGE 1 OF 1	

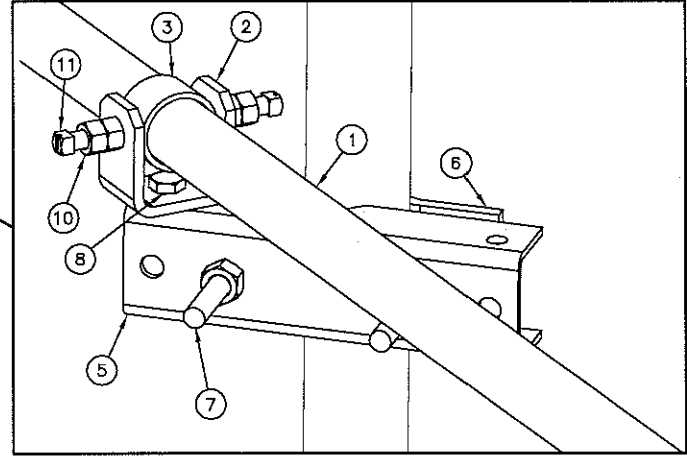
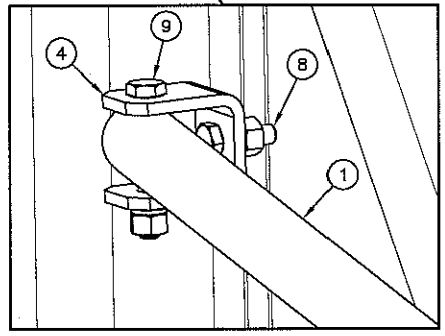


**C10179021 SWIVEL KNUCKLE TIEBACK KIT**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	1	CS00248	PIPE, 3 1/2" O.D. X 0.216 X 19'-0	150#
2.	1	CW00060	SWIVEL PLATE WELDMENT	4#
3.	1	CS00247	PIPE, 4 1/2" O.D. X 0.237 X 0'-1 3/4	2#
4.	1	CS00246	BENT SWIVEL PLATE	3#
5.	1	CS01360	PLATE, MOUNTING BRACKET (FORMED CHANNEL)	9#
6.	1	CS01361	PLATE, 2 HOLE ADAPTER CLAMP	3#
7.	2	C40140001	BOLT ASSEMBLY, 3/4 X 10 A307 W/NUT, LKW, FLW	4#
8.	2	C40026023	BOLT ASSEMBLY, 5/8 X 2 A325	1#
9.	1	C40026036	BOLT ASSEMBLY, 5/8 X 5 1/2 A325	1#
10.	2	C40042007	HEX NUT, 5/8 A194 2H	1#
11.	2	C40998007	SQ. HEAD SET SCREW, 5/8 X 2 1/2	1#
<b>TOTAL WEIGHT</b>				<b>179#</b>



**ISOMETRIC VIEW**



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DRW/CHK	DESCRIPTION

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<b>SWIVEL KNUCKLE TIEBACKS: 90' ELEVATION</b>			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE /B	DRAWING NO. 414025-ST2	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE
		PAGE 1 OF 1	

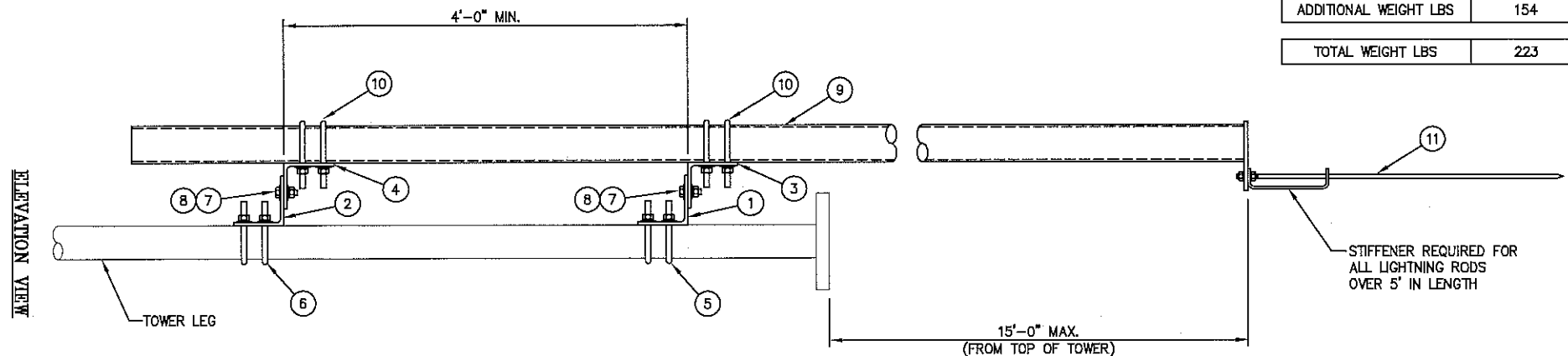


LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173006

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 2"Ø LEG	15
2.	1	CS00216	BOTTOM LEG MOUNT FOR 2"Ø LEG	15
3.	1	CS00214	TOP PIPE MOUNT FOR 2 7/8"Ø PIPE	15
4.	1	CS00214	BOTTOM PIPE MOUNT FOR 2 7/8"Ø PIPE	15
5.	2	C40034022	U-BOLT ASSEMBLY 5/8" Ø X 2 11/16 C-C (TOP LEG MOUNT)	3
6.	2	C40034022	U-BOLT ASSEMBLY 5/8" Ø X 2 11/16 C-C (BOTTOM LEG MOUNT)	3
7.	4	C40026024	BOLT ASSEMBLY, 5/8"Ø X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8"Ø (F436)	1
KIT WEIGHT LBS				69

LIST OF ADDITIONAL MATERIALS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	CW00032	LIGHTNING ROD EXTENSION 2 7/8" O.D. X 21'-0"	128
10.	4	C40034025	U-BOLT ASSEMBLY 5/8" Ø X 3 9/16 C-C (PIPE MOUNTS)	7
11.	1 KIT	C30986003	LIGHTNING ROD ASSY 3/4"Ø X 8'-0" W/STIFFENER	19
ADDITIONAL WEIGHT LBS				154
TOTAL WEIGHT LBS				223



**NOTE:**  
 THE ASSEMBLY IS SHOWN ON THE OUTSIDE OF THE TOWER.  
 IT MAY ALSO BE MOUNTED ON THE INSIDE OF TOWER, IF NECESSARY.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION

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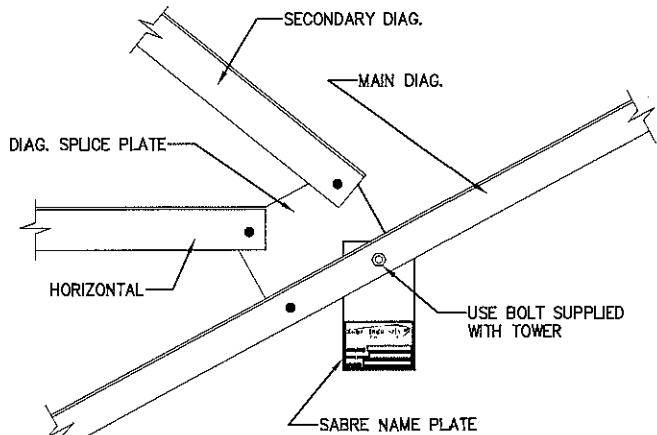
<b>LIGHTNING ROD W/STIFFENER &amp; EXTENSION</b>			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE /B	DRAWING NO. 414025-LR	REV 0
DATE 09/26/18	DRAWN BY DLK	SCALE NONE	PAGE 1 OF 1
CHECKED BY ZAK			



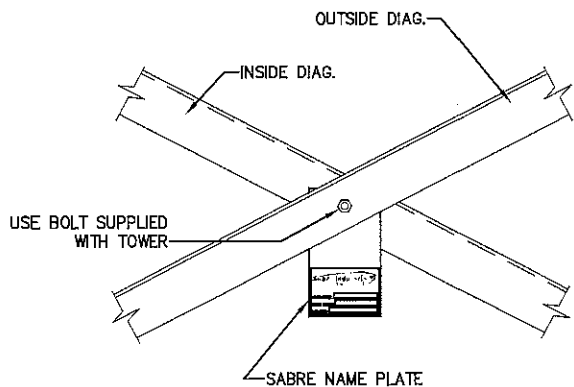
**BOLT INSTALLATION DETAILS:**

1. **INSTALLATION OF BOLTS:** BOLTS FOR TOWERS AND ANTENNAS SHALL BE INSTALLED WITH THE NUTS FACING TO THE OUTSIDE AND/OR TO THE TOP OF THE TOWER, UNLESS PROHIBITED BY LACK OF CLEARANCE.
2. **TIGHTENING OF BOLTS:** ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG-TIGHT CONDITION, AS DEFINED BY AISC.
3. **NUT LOCKING DEVICE:** ALL NUTS SHALL BE EQUIPPED WITH SOME TYPE OF NUT LOCKING DEVICE. SEE THE INDIVIDUAL DRAWINGS FOR THE TYPE OF NUT LOCKING DEVICE TO BE USED FOR EACH INDIVIDUAL APPLICATION.

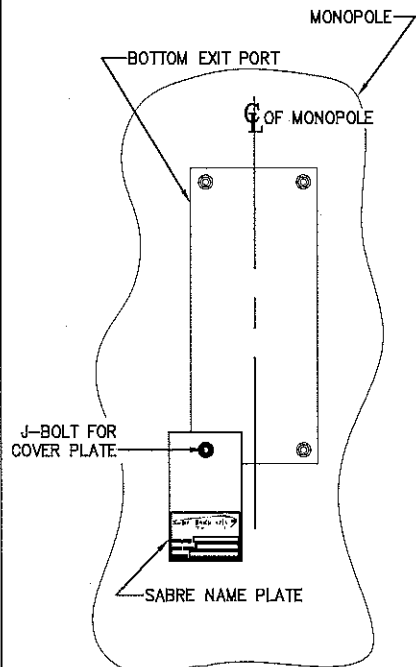
<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES</p> <p>TOLERANCES: FRACTIONS <math>\pm 1/16"</math> ANGLES <math>\pm 1/2</math> DEG. DECIMALS <math>\pm .010"</math></p>	<p>MATERIAL:</p> <p>TOLERANCES DO NOT APPLY TO RAW MATERIAL.</p>		<p><b>BOLT INSTALLATION DETAILS</b></p>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DRW/CHK</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>02/15/08</td> <td>KJT/DLM</td> <td>REVISED FOR BOLT INSTALL</td> </tr> <tr> <td>2</td> <td>03/04/04</td> <td>PSB/ZAK</td> <td>REBRAN INTO P. SIZE TITLEBLOCK</td> </tr> <tr> <td>1</td> <td>03/08/01</td> <td>KJT/PSB</td> <td>REBRAN IN AUTOCAD 2000</td> </tr> </tbody> </table>		REV	DATE	DRW/CHK	DESCRIPTION	3	02/15/08	KJT/DLM	REVISED FOR BOLT INSTALL	2	03/04/04	PSB/ZAK	REBRAN INTO P. SIZE TITLEBLOCK	1	03/08/01	KJT/PSB	REBRAN IN AUTOCAD 2000	<p><b>CONFIDENTIAL</b></p> <p>This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre. © 2007 Sabre Communications Corporation. All rights reserved.</p>		<p>SIZE</p> <p>B</p>	<p>DRAWING NO.</p> <p>9014671</p>	<p>REV</p> <p>3</p>
		REV	DATE	DRW/CHK	DESCRIPTION																	
3	02/15/08	KJT/DLM	REVISED FOR BOLT INSTALL																			
2	03/04/04	PSB/ZAK	REBRAN INTO P. SIZE TITLEBLOCK																			
1	03/08/01	KJT/PSB	REBRAN IN AUTOCAD 2000																			
<p>DATE</p> <p>01/28/00</p>	<p>DRAWN BY</p> <p>MJM</p>	<p>CHECKED BY</p> <p>KJT/DLW</p>	<p>SCALE</p> <p>None</p>	<p>PAGE</p> <p>1 OF 1</p>																		



TYPICAL FOR MODEL S3TL, S4TL, S3R & S4R  
SELF-SUPPORTING TOWER  
(K-BRACE)

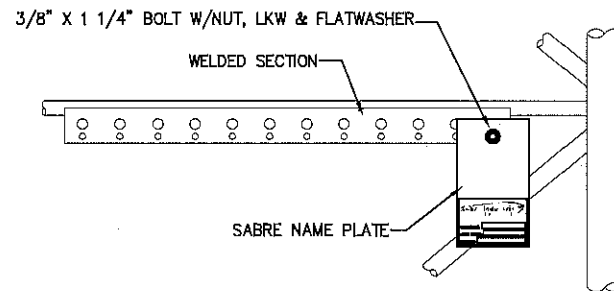


TYPICAL FOR MODEL S3TL, S4TL, S3R & S4R  
SELF-SUPPORTING TOWER  
(X-BRACE)

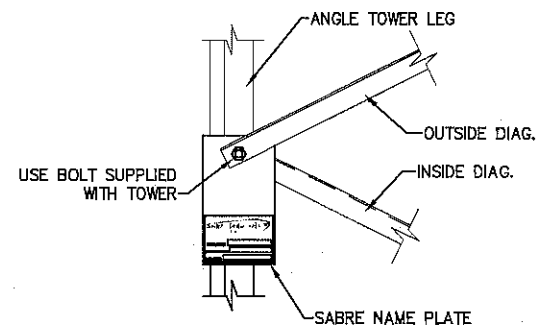


TYPICAL FOR MONOPOLE  
STRUCTURE

**NOTE:**  
NAME PLATE SHOULD BE MOUNTED AT  
APPROXIMATELY EYE LEVEL WHEN POSSIBLE.



TYPICAL FOR MODEL 2400 / 3600 / 4400 / 4800 / 6000  
WELDED GUYED TOWER



TYPICAL FOR MODEL 3000 / 3600 / 4800  
ANGLE GUYED TOWER

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	DRW/CHK	DESCRIPTION
1	02/18/01	DEM	REVISION: REVISED MONOPOLE INSTALLATION.
2	02/28/01	DEM	REVISION: REVISED BOLT ON GUYED TOWER WAS 3/8 X 1 1/4.
3	08/23/01	RGF	REVISION: REVISION IN ALLIGRAD 2000.
4	11/21/02	RGF	REVISION: ADDING 2400 WELDED GUYED TOWER.
5	11/21/02	RGF	REVISION: ADDING S3TL & S3R TO S.S. TOWER.
6	03/20/04	RGF	REVISION: ADDING 4800 & 6000 WELDED GUYED TOWER.

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OPTIONAL MOUNTING INSTALLATION  
SABRE NAME PLATE

DATE	10/15/96	SIZE	B	DRAWING NO.	906956	REV	6
DRAWN BY	DEM	SCALE	None	PAGE	1 OF 1		
CHECKED BY	RGF						

NOTICE

ALL PARTS ARE TO BE INVENTORIED AND ANY  
SHORTAGES REPORTED WITHIN 48 HOURS OF DELIVERY  
TO THE CONTRACTING ERECTOR.

SHORTAGES REPORTED AFTER THIS TIME PERIOD WILL  
BE CHARGED TO THE CONTRACTOR.

CALL 712-258-6690

TO REACH THE SABRE CONTRACTS DEPARTMENT.

AVISO


Todas las partes serán inventariadas y los faltantes reportados  
por el contratista dentro de las 48 horas a partir de la entrega.

Los faltantes reportados después de 48 horas serán cargados al contratista.

Para aclaraciones llame a:

Sabre-Departamento de Contrataciones

(001) 712 258-6690

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:			INVENTORY REQUIREMENT SHEET						
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.									
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1 05/04/04 ESB/ZAK REBORN ON 10" B SIZE TITLEROCK 2 02/25/02 CHE/ADM ADDED SPANISH TEXT 1 02/27/01 CHE/CS REBORN IN AUTOCAD 2000 & UPDATED VERBAGE			DRAWN BY	ZAK	SCALE		None		PAGE		1 OF 1
REV	DATE	DRWCHK	DESCRIPTION		CHECKED BY	JD					



**CUSTOMER :** BOONE COUNTY, MO  
**SITE :** HALLSVILLE, MO  
**B.O.M.** 180 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE  
 PLT=PALLET  
 BDL=BUNDLE  
 CRT=CRATE  
 D=DRUM  
 BX=BOX  
 OR=ORANGE  
 WH=WHITE  
 O/W=OR & WH  
 N/R=NOT REQ'D  
 SP=SPECIAL

**PACKING**

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY OF PKG'S	PKG. NO.
		NUMBER	REV							
1					<b>ANCHOR BOLTS AND TEMPLATES</b>					
2	18	C40041060	0	C40041060	ANCHOR BOLT ASSEMBLY, 1 1/2 Ø X 6'-6 (F1554 GR 105)	857				
3					W/(5) NUTS 1 1/2 HEAVY HEX (A563 DH)					
4					(2) FLATWASHERS 1 1/2 (F436)					
5	6	C30139210	0	C30139210	PLATE, A.B. TEMPLATE 1 1/2"Ø A.B. ON 10 1/4"Ø B.C.	70				
6					<b>LEG TO LEG TEMPLATE MATERIAL</b>					
7	1 KIT			C30400129	LEG TO LEG TEMPLATE KIT, 17'-3 BASE SPREAD	370				
8					(6) 1 1/2"Ø A.B. ON A 10 1/4"Ø B.C.					
9										
10										
11										
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13										
14										
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16										
17										
18										
19										
20										

REV	DATE	DRW	CHK	DESCRIPTION	DATE	7/19/18	JOB NO.	414025
					DRAWN BY	DLK	PRINT NO.	BOM-1
					CHECKED BY	KD	PAGE	1 OF 20



CUSTOMER : BOONE COUNTY, MO

SITE : HALLSVILLE, MO

B.O.M. 180 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE  
 PLT=PALLET  
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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY OF PKG'S	PKG. NO.
		NUMBER	REV							
1					<b>TOWER LEGS</b>					
2	3	08-T1181241	0	08-T1181241	SECT. 8 LEG 4 1/2 Ø X 20'-0 5/16 W/STEP BOLTS	3953				
3	3	07-T1181039	0	07-T1181039	SECT. 7 LEG 4 1/4 Ø X 20'-0 5/16 W/STEP BOLTS	3511				
4	3	06-T1181038	0	06-T1181038	SECT. 6 LEG 4 1/4 Ø X 20'-0 5/16	3409				
5	3	05-T1180944	0	05-T1180944	SECT. 5 LEG 3 3/4 Ø X 20'-0 5/16	2735				
6	3	04-T1180940	0	04-T1180940	SECT. 4 LEG 3 1/2 Ø X 20'-0 5/16	2355				
7	3	03-T1180838	0	03-T1180838	SECT. 3 LEG 3 1/4 Ø X 20'-0 5/16	2017				
8	3	02-T1180732	0	02-T1180732	SECT. 2 LEG 3 Ø X 20'-0 5/16	1761				
9	3	01-T1180622	0	01-T1180622	SECT. 1 LEG 2 1/2 Ø X 20'-0 5/16	1258				
10	3	01-T1180608	0	01-T1180608	SECT. 1 LEG 2 Ø X 20'-0 5/16	852				
11										
12										
13										
14										
15										
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18										
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20										
						DATE	<u>9/25/18</u>	JOB NO.	<u>414025</u>	
						DRAWN BY	<u>DLK</u>	PRINT NO.	<u>BOM-1</u>	
						CHECKED BY	<u>KD</u>	PAGE	<u>2 OF 20</u>	
REV	DATE	DRW	CHK	DESCRIPTION						



CUSTOMER : BOONE COUNTY, MO

SITE : HALLSVILLE, MO

B.O.M. 180 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE  
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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY OF PKG'S	PKG. NO.
		NUMBER	REV							
1					<b>TOWER BRACING</b>					
2	1 KIT				<b>BRACING #08-T8300081 SECTION 08</b>	1534				
3					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
4	6	TS02614	1	TS02614	ANGLE, DIAGONAL 3 X 3 X 1/4 X 17'-2 3/4	527				
5	6	TS02615	1	TS02615	ANGLE, DIAGONAL 3 X 3 X 1/4 X 16'-8 9/16	511				
6	6	TS02616	1	TS02616	ANGLE, DIAGONAL 3 X 3 X 1/4 X 16'-2 1/2	496				
7					<b>SPLICE BOLTS TOP OF SECTION 08</b>					
8	19			C40026115	BOLT ASSEMBLY, 1 1/2 Ø X 6 1/2 A325	115				
9	1 KIT				<b>HARDWARE #TK00261 SECTION 08</b>	38				
10					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
11	10			C40026045	BOLT ASSEMBLY, 3/4 Ø X 2 1/2 A325	8				
12	38			C40026044	BOLT ASSEMBLY, 3/4 Ø X 2 1/4 A325	28				
13	10			C40047009	RINGFILL, 1/2 - 3/4 Ø BOLT	2				
14										
15										
16										
17										
18										
19										
20										
						DATE	9/25/18	JOB NO.	414025	
						DRAWN BY	DLK	PRINT NO.	BOM-1	
						CHECKED BY	KD	PAGE	3 OF 20	
REV	DATE	DRW	CHK	DESCRIPTION						



CUSTOMER : BOONE COUNTY, MO

SITE : HALLSVILLE, MO

B.O.M. 180 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY OF PKG'S	PKG. NO.
		NUMBER	REV							
1					<b>TOWER BRACING CONT'D</b>					
2	1 KIT				<b>BRACING #07-T8300071 SECTION 07</b>	1392				
3					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
4	6	TS02584	1	TS02584	ANGLE, DIAGONAL 3 X 3 X 1/4 X 15'-8 1/16	479				
5	6	TS02585	1	TS02585	ANGLE, DIAGONAL 3 X 3 X 1/4 X 15'-2 1/16	464				
6	6	TS02586	1	TS02586	ANGLE, DIAGONAL 3 X 3 X 1/4 X 14'-8	449				
7					<b>SPLICE BOLTS TOP OF SECTION 07</b>					
8	19			C40026094	BOLT ASSEMBLY, 1 1/4 Ø X 5 1/2 A325	69				
9	1 KIT				<b>HARDWARE #TK00261 SECTION 07</b>	38				
10					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
11	10			C40026045	BOLT ASSEMBLY, 3/4 Ø X 2 1/2 A325	8				
12	38			C40026044	BOLT ASSEMBLY, 3/4 Ø X 2 1/4 A325	28				
13	10			C40047009	RINGFILL, 1/2 - 3/4 Ø BOLT	2				
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PACKING

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		NUMBER	REV							
1					TOWER BRACING CONT'D					
2	1 KIT				BRACING #06-T8300064 SECTION 06	943				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	6	TS02563	1	TS02563	ANGLE, DIAGONAL 3 X 3 X 3/16 X 14'-0 7/8	326				
5	6	TS02564	1	TS02564	ANGLE, DIAGONAL 3 X 3 X 3/16 X 13'-6 15/16	314				
6	6	TS02565	1	TS02565	ANGLE, DIAGONAL 3 X 3 X 3/16 X 13'-1 1/16	303				
7					SPLICE BOLTS TOP OF SECTION 06					
8	19			C40026094	BOLT ASSEMBLY, 1 1/4 Ø X 5 1/2 A325	69				
9	1 KIT				HARDWARE #TK00260 SECTION 06	36				
10					CONSISTING OF THE MATERIAL LISTED BELOW					
11	10			C40026044	BOLT ASSEMBLY, 3/4 Ø X 2 1/4 A325	7				
12	38			C40026043	BOLT ASSEMBLY, 3/4 Ø X 2 A325	27				
13	10			C40047009	RINGFILL, 1/2 - 3/4 Ø BOLT	2				
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		NUMBER	REV							
1					TOWER BRACING CONT'D					
2	1 KIT				BRACING #05-T8300059 SECTION 05	870				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	6	TS02545	1	TS02545	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-10 15/16	229				
5	6	TS02546	1	TS02546	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-6 1/4	221				
6	6	TS02547	1	TS02547	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-1 5/8	214				
7	6	TS02548	1	TS02548	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 10'-9	206				
8					SPLICE BOLTS TOP OF SECTION 05					
9	19			C40026094	BOLT ASSEMBLY, 1 1/4 Ø X 5 1/2 A325	69				
10	1 KIT				HARDWARE #TK00194 SECTION 05	30				
11					CONSISTING OF THE MATERIAL LISTED BELOW					
12	13			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	6				
13	50			C40026022	BOLT ASSEMBLY, 5/8 Ø X 1 3/4 A325	22				
14	13			C40047003	RINGFILL, 3/8 THICK - 5/8 Ø BOLT	2				
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		NUMBER	REV							
1					<b>TOWER BRACING CONT'D</b>					
2	1 KIT				<b>BRACING #04-T8300052 SECTION 04</b>	776				
3					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
4	6	TS02517	1	TS02517	ANGLE, DIAGONAL 2 X 2 X 1/4 X 10'-3 11/16	205				
5	6	TS02518	1	TS02518	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-11 3/16	198				
6	6	TS02519	1	TS02519	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-6 11/16	190				
7	6	TS02520	1	TS02520	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-2 1/4	183				
8					<b>SPLICE BOLTS TOP OF SECTION 04</b>					
9	19			C40026080	BOLT ASSEMBLY, 1 Ø X 4 3/4 A325	44				
10	1 KIT				<b>HARDWARE #TK00259 SECTION 04</b>	32				
11					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
12	13			C40026024	BOLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	7				
13	50			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	23				
14	13			C40047003	RINGFILL, 3/8 THICK - 5/8 Ø BOLT	2				
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		NUMBER	REV							
1					<b>TOWER BRACING CONT'D</b>					
2	1 KIT				<b>BRACING #03-T8300046 SECTION 03</b>	509				
3					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
4	6	TS02493	1	TS02493	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-10 1/2	136				
5	6	TS02494	1	TS02494	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-6 1/8	130				
6	6	TS02495	1	TS02495	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-1 7/8	124				
7	6	TS02496	1	TS02496	ANGLE, DIAGONAL 2 X 2 X 3/16 X 7'-9 11/16	119				
8					<b>SPLICE BOLTS TOP OF SECTION 03</b>					
9	19			C40026079	BOLT ASSEMBLY, 1 $\emptyset$ X 4 1/2 A325	43				
10	1 KIT				<b>HARDWARE #TK00194 SECTION 03</b>	30				
11					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
12	13			C40026023	BOLT ASSEMBLY, 5/8 $\emptyset$ X 2 A325	6				
13	50			C40026022	BOLT ASSEMBLY, 5/8 $\emptyset$ X 1 3/4 A325	22				
14	13			C40047003	RINGFILL, 3/8 THICK - 5/8 $\emptyset$ BOLT	2				
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		NUMBER	REV							
1					<b>TOWER BRACING CONT'D</b>					
2	1 KIT				<b>BRACING #02-T8300037 SECTION 02</b>	305				
3					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
4	6	TS02457	1	TS02457	ANGLE, DIAGONAL 2 X 2 X 1/8 X 7'-4 1/8	76				
5	6	TS02458	1	TS02458	ANGLE, DIAGONAL 2 X 2 X 1/8 X 7'-0 1/8	73				
6	6	TS02459	1	TS02459	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-8 3/16	68				
7	6	TS02460	1	TS02460	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-4 7/16	65				
8	3	TS02449	1	TS02449	ANGLE, HORIZONTAL 2 X 2 X 1/8 X 4'-5 5/8	23				
9					<b>SPLICE BOLTS TOP OF SECTION 02</b>					
10	19			C40026077	BOLT ASSEMBLY, 1 Ø X 4 A325	39				
11	1 KIT				<b>HARDWARE #TK00134 SECTION 02</b>	33				
12					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
13	13			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	6				
14	57			C40026022	BOLT ASSEMBLY, 5/8 Ø X 1 3/4 A325	25				
15	13			C40047003	RINGFILL, 3/8 THICK - 5/8 Ø BOLT	2				
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		NUMBER	REV							
1					<b>TOWER BRACING CONT'D</b>					
2	1 KIT				<b>BRACING #01-T8300031 SECTION 01-20</b>	542				
3					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
4	24	TS02443	1	TS02443	ANGLE, DIAGONAL 2 X 2 X 1/4 X 6'-2 3/4	497				
5	3	TS02411	1	TS02411	ANGLE, HORIZONTAL 2 X 2 X 1/4 X 4'-5 3/4	45				
6					<b>SPLICE BOLTS TOP OF SECTION 01-20</b>					
7	13			C40026048	BOLT ASSEMBLY, 3/4 Ø X 3 1/4 A325	11				
8	1 KIT				<b>HARDWARE #TK00146 SECTION 01-20</b>	35				
9					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>					
10	13			C40026024	BOLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	7				
11	57			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	26				
12	13			C40047003	RINGFILL, 3/8 THICK - 5/8 Ø BOLT	2				
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		NUMBER	REV								
1					<b>TOWER BRACING CONT'D</b>						
2	1 KIT				<b>BRACING #01-T8300029 SECTION 01-20</b>	280					
3					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>						
4	24	TS02441	1	TS02441	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-2 3/4	257					
5	3	TS02409	1	TS02409	ANGLE, HORIZONTAL 2 X 2 X 1/8 X 4'-5 3/4	23					
6	1 KIT				<b>HARDWARE #TK00134 SECTION 01-20</b>	33					
7					<b>CONSISTING OF THE MATERIAL LISTED BELOW</b>						
8	13			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	6					
9	57			C40026022	BOLT ASSEMBLY, 5/8 Ø X 1 3/4 A325	25					
10	13			C40047003	RINGFILL, 3/8 THICK - 5/8 Ø BOLT	2					
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		NUMBER	REV							
1					<b>SAFETY CLIMB</b>					
2	1 KIT			C30012054	200' TUF-TUG SAFETY CLIMB MATERIAL	95				
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		NUMBER	REV							
1					<b>CLIMBING LADDER</b>					
2	9	CW00118	0	CW00118	WELDMENT, 20 FT. CLIMBING LADDER 16" WIDE	851				
3	18	CS00037	2	CS00037	PLATE, LADDER SPLICE	7				
4	2	CS00242	1	CS00242	ANGLE, LADDER BASE SUPPORT	15				
5	46	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	25				
6					<b>CLIMBING LADDER HARDWARE</b>					
7	20			C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4 I.L.	7				
8	26			C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4 I.L.	8				
9	40			C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2 GRD 5	4				
10	98			C40044002	STEP BOLT ASSEMBLY, 5/8" Ø X 7 H.D.G.	98				
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		NUMBER	REV							
1					<b>WAVEGUIDE LADDER (WG1)</b>					
2	18	CS00146	2	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	540				
3	45	CS00413	0	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	207				
4	18	CS00037	2	CS00037	PLATE, LADDER SPLICE	7				
5	46	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	25				
6					<b>WAVEGUIDE LADDER HARDWARE (WG1)</b>					
7	20			C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4 I.L.	7				
8	26			C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4 I.L.	8				
9	130			C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2 GRD 5	13				
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		NUMBER	REV							
1					<b>WAVEGUIDE LADDER (WG2)</b>					
2	16	CS00146	2	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	480				
3	40	CS00413	0	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	184				
4	16	CS00037	2	CS00037	PLATE, LADDER SPLICE	6				
5	42	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	23				
6					<b>WAVEGUIDE LADDER HARDWARE (WG2)</b>					
7	20			C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4 I.L.	7				
8	22			C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4 I.L.	7				
9	115			C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2 GRD 5	12				
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						DATE	<u>9/26/18</u>	JOB NO.	<u>414025</u>	
						DRAWN BY	<u>DLK</u>	PRINT NO.	<u>BOM-1</u>	
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REV	DATE	DRW	CHK	DESCRIPTION						



CUSTOMER : BOONE COUNTY, MO

SITE : HALLSVILLE, MO

B.O.M. 180 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE  
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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY OF PKG'S	PKG. NO.
		NUMBER	REV							
1					<b>WAVEGUIDE LADDER (WG3)</b>					
2	12	CS00146	2	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	360				
3	30	CS00413	0	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	138				
4	12	CS00037	2	CS00037	PLATE, LADDER SPLICE	5				
5	34	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	19				
6					<b>WAVEGUIDE LADDER HARDWARE (WG3)</b>					
7	20			C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4 I.L.	7				
8	14			C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4 I.L.	4				
9	85			C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2 GRD 5	9				
10										
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		NUMBER	REV							
1					<b>FIXED PLATFORM @ 178'</b>					
2	1 KIT			CK00015	ROTATABLE PLATFORM ANGLE KIT	1178				
3	1 KIT			CK00048	ANGLE KIT MIS FRAMING MATL 2 3/8" OD LEG	338				
4	6			C10901210	ANTENNA MTG. PIPE 2 3/8" Ø X 10'-6"	239				
5	6	CS00308	0	CS00308	ANGLE, LEG MOUNT 2" Ø	40				
6	12	CS00265	0	CS00265	ANGLE, PIPE MOUNT	37				
7	3	C20137005	0	C20137005	PLATFORM GRATING	169				
8					<b>Z-BRACKET PIPE MOUNTS @ 170'</b>					
9	3 KITS			C10173006	STRAIGHT LEG PIPE MOUNT KIT	205				
10	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
11	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
12					<b>STIFFARM MOUNTS FOR PIPE MOUNTS @ 170'</b>					
13	3 KITS			C10105020	DISH MOUNT TIEBACK ASSEMBLY	396				
14					<b>Z-BRACKET PIPE MOUNTS @ 160'</b>					
15	3 KITS			C10173011	STRAIGHT LEG PIPE MOUNT KIT	205				
16	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
17	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
18					<b>STIFFARM MOUNTS FOR PIPE MOUNTS @ 160'</b>					
19	3 KITS			C10105020	DISH MOUNT TIEBACK ASSEMBLY	396				
20										
						DATE	<u>9/26/18</u>	JOB NO.	<u>414025</u>	
						DRAWN BY	<u>DLK</u>	PRINT NO.	<u>BOM-1</u>	
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		NUMBER	REV							
1					<b>Z-BRACKET PIPE MOUNTS @ 150'</b>					
2	3 KITS			C10173013	STRAIGHT LEG PIPE MOUNT KIT	206				
3	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
4	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
5					<b>STIFFARM MOUNTS FOR PIPE MOUNTS @ 150'</b>					
6	3 KITS			C10105022	DISH MOUNT TIEBACK ASSEMBLY	397				
7					<b>6' SIDEARM MOUNTS @ 125'</b>					
8	3 KITS			C10151106	6 FT. SIDEARM ASSEMBLY	436				
9	3 KITS			C10900110	PIPE ANTENNA MOUNTING KIT 2 3/8" Ø X 10'-0	105				
10	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
11					<b>Z-BRACKET PIPE MOUNTS FOR SIDEARM5 @ 125'</b>					
12	3 KITS			C10174021	TAPERED LEG PIPE MOUNT KIT	191				
13	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
14	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
15					<b>SWIVEL KNUCKLE TIEBACKS FOR SIDEARMS @ 125'</b>					
16	3 KITS			C10179002	SWIVEL KNUCKLE TIEBACK KIT 2 3/8"Ø PIPE X 13'-3"	210				
17					<b>6' SIDEARM MOUNTS @ 90'</b>					
18	3 KITS			C10151106	6 FT. SIDEARM ASSEMBLY	436				
19	3 KITS			C10900105	PIPE ANTENNA MOUNTING KIT 2 3/8" Ø X 5'-0	58				
20	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
						<b>DATE</b>	<u>9/26/18</u>	<b>JOB NO.</b>	<u>414025</u>	
						<b>DRAWN BY</b>	<u>DLK</u>	<b>PRINT NO.</b>	<u>BOM-1</u>	
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		NUMBER	REV							
1					<b>Z-BRACKET PIPE MOUNTS FOR SIDEARMS @ 90'</b>					
2	3 KITS			C10174029	TAPERED LEG PIPE MOUNT KIT	193				
3	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
4	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
5					<b>SWIVEL KNUCKLE TIEBACKS FOR SIDEARMS @ 90'</b>					
6	3 KITS			C10179021	SWIVEL KNUCKLE TIEBACK KIT 3 1/2"Ø PIPE X 19'-0"	537				
7					<b>LIGHTNING ROD</b>					
8	1 KIT			C10173006	STRAIGHT LEG PIPE MOUNT KIT	68				
9	1	CW00032	2	CW00032	LIGHTNING ROD EXTENSION 2 7/8" O.D. X 21'-0	128				
10	4			C40034025	U-BOLT ASSEMBLY 5/8" Ø X 3 9/16 C-C	7				
11	1 KIT			C30986003	LIGHTNING ROD ASSY 3/4"Ø X 8'-0" W/STIFFENER	19				
12					<b>HARDWARE</b>					
13	95			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	44				
14	70			C40026022	BOLT ASSEMBLY, 5/8 Ø X 1 3/4 A325	31				
15	15			C40024013	BOLT ASSEMBLY, 3/8" Ø X 3 3/4 GRD 5	3				
16	13			C40034023	U-BOLT ASSEMBLY 5/8" Ø X 3 1/16 C-C	17				
17	13			C40034022	U-BOLT ASSEMBLY 5/8" Ø X 2 11/16 C-C	21				
18	15			C40046001	FENDER WASHER, 3/8" Ø X 1 1/2 X .097	1				
19	15			C40031001	FLATWASHER, 3/8" Ø	1				
20										
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1					MISCELLANEOUS					
2	1			C40068001	COLD GALVANIZING SPRAY	1				
3	1	CS00500	0	CS00500	TOWER NAME PLATE	1				
4										
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