



TOWER INSPECTION REPORT

SITE NAME: **404 NE Woods Chapel Road**

FOR: **City of Lees Summit MO**

SITE COORDINATES: **N 38.98361 W -94.37031**

FCC ID: **KNLF292**

HEIGHT / TYPE: **120**

DATE: **10/7/2021**



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| CUSTOMER: City of Lees Summit MO SITE ID: 60706 TOWER HT/TYPE: 120 | | INSPECTION DATE: 10/7/2021 WEATHER: Sunny TEMPERATURE: 67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width: 100%; text-align: center;"> <tr> <td>SAT.*</td> <td>UN-SAT*</td> <td>N/A</td> </tr> </table> <p style="text-align: right;">X * - SEE APPENDIX</p> | | | SAT.* | UN-SAT* | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAT.* | UN-SAT* | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 GENERAL SITE CONDITIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>A. TOWER AND BUILDING AREA IS SECURE</td><td style="text-align: center;">X</td><td style="text-align: center;"></td></tr> <tr><td>B. GUY ANCHORS PROTECTED FROM VEHICLE, FARM MACHINERY AND CATTLE DAMAGE</td><td style="text-align: center;"></td><td style="text-align: center;">X</td></tr> <tr><td>C. NO VINES OR VEGETATION ARE GROWING ON FENCE, TOWER OR GUY ANCHORS</td><td style="text-align: center;">X</td><td style="text-align: center;"></td></tr> <tr><td>D. ANCHOR LOCATIONS ARE READILY ACCESSIBLE TO MAINTENANCE CREW</td><td style="text-align: center;"></td><td style="text-align: center;">X</td></tr> <tr><td>E. NO LARGE TREES ARE WITHIN FALLING DISTANCE OF TOWER OR GUY CABLES</td><td style="text-align: center;">X</td><td style="text-align: center;"></td></tr> <tr><td>F. SITE IS DRAINING PROPERLY, BUILDING AND CIVIL WORK IN GOOD SHAPE</td><td style="text-align: center;">X</td><td style="text-align: center;"></td></tr> <tr><td>G. COMPOUND / ANCHORS IN GOOD SHAPE; ALL GATES AND LOCKS OPERABLE AND SECURE</td><td style="text-align: center;">X</td><td style="text-align: center;"></td></tr> </table> | | | | | A. TOWER AND BUILDING AREA IS SECURE | X | | B. GUY ANCHORS PROTECTED FROM VEHICLE, FARM MACHINERY AND CATTLE DAMAGE | | X | C. NO VINES OR VEGETATION ARE GROWING ON FENCE, TOWER OR GUY ANCHORS | X | | D. ANCHOR LOCATIONS ARE READILY ACCESSIBLE TO MAINTENANCE CREW | | X | E. NO LARGE TREES ARE WITHIN FALLING DISTANCE OF TOWER OR GUY CABLES | X | | F. SITE IS DRAINING PROPERLY, BUILDING AND CIVIL WORK IN GOOD SHAPE | X | | G. COMPOUND / ANCHORS IN GOOD SHAPE; ALL GATES AND LOCKS OPERABLE AND SECURE | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| E. CABLE ENDS PROPERLY PROJECT FROM PREFORMED DEAD END GUY GRIPS | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Q. VISIBLE PORTIONS OF ANCHOR SHAFT FREE FROM RUST OR CORROSION | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WAS ANCHOR SHAFT EXCAVATED? DEPTH (FT): | | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CUSTOMER: City of Lees Summit MO
SITE ID: 60706
TOWER HT/TYPE: 120

INSPECTION DATE: 10/7/2021
WEATHER: Sunny
TEMPERATURE: 67

| SAT.* | UN-SAT* | N/A |
|-------|---------|-----|
| X | | |

* - SEE APPENDIX

5 TOWER BASE AND MAST

- A. CONCRETE FOUNDATION IN GOOD SHAPE WITH NO CRACKING, SPALLING OR SETTLING
- B. BASE LEGS CORRECTLY LINE UP WITH TOWER CENTER AND APPROPRIATE ANCHORS
- C. VISUAL CHECK INDICATES TOWER IS PLUMB AND FREE OF TWIST
- D. ALL LADDER SPLICES COMPLETE AND SECTIONS FIRMLY ATTACHED TO TOWER
- E. ALL MEMBERS INSTALLED CORRECTLY WITH NO MISSING MEMBERS
- F. NO BENT, BROKEN OR OTHERWISE DAMAGED MEMBERS OR ATTACHMENTS
- G. STRUCTURAL BOLTS INSTALLED WITH PROPER TORQUE AND LOCKING DEVICES
- H. NO FRACTURED WELDS
- I. TOWER MEMBERS FREE OF SURFACE RUST
- J. TOWER BASE GROUT IN GOOD CONDITION
- K. WEEP HOLES CLEAR AND DRAIN PROPERLY

| | | |
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| X | | |

6 FAA REQUIRED LIGHTING

- A. NO CRACKED OR BROKEN BEACON, OBSTRUCTION LIGHT OR STROBE UNIT GLASS
- B. INSIDE OF LAMP UNITS CLEAN WITH WIRES, TERMINALS AND SOCKETS CORROSION FREE
- C. LAMP UNIT CLOSURE BOLTS OR SPRING FASTENERS FUNCTIONING PROPERLY
- D. BEACON OR STROBE UNIT CORD IN GOOD CONDITION
- E. BEACON OR STROBE UNIT CORD DRIP LOOP NOT RUBBING ON TOWER MEMBERS
- F. OBSTRUCTION LIGHTS CORRECTLY POSITIONED AND PROPERLY SECURED TO TOWER
- G. CONDUIT SUPPORTED AT MAX. 8 FT. INTERVALS AND ALL JOINTS TIGHT
- H. WIRE CORRECTLY INSTALLED OVER WIRE SUPPORTS IN JUNCTION BOXES
- I. JUNCTION BOX TERMINALS TIGHT AND FREE OF CORROSION
- J. CONDUIT BREATHERS CLEAR AND CLEAN
- K. PHOTOCELL POSITIONED SO THAT IT HAS UNOBSTRUCTED VIEW OF NORTH SKY
- L. LIGHTING SYSTEM OPERATING PROPERLY ACCORDING TO FEDERAL REGULATIONS
- M. LIGHTING SYSTEM GROUNDED TO SITE GROUNDING SYSTEM
- N. ALL ELECTRICAL CONNECTIONS FREE FROM LOOSE OR FRAYED WIRING
- O. STROBE CABLE AND/OR SO CORD HAS DRIP LOOP INSTALLED CORRECTLY

| | | |
|---|---|--|
| X | | |
| X | | |
| X | | |
| X | | |
| X | | |
| X | | |
| | X | |
| | X | |
| | X | |
| | X | |
| X | | |
| X | | |
| X | | |
| X | | |

LIGHTING SYSTEM TYPE Dual Red White Strobe

LIGHTING SYSTEM MANUFACTURER:

MODEL NUMBER:

LAMPS / FLASHTUBES REPLACED?

No

7 ANTENNAS

- A. NO EVIDENT DAMAGE TO ANTENNAS OR ANTENNA COMPONENTS
- B. NO DAMAGED, LOOSE OR MISSING HARDWARE
- C. ALL STIFFARM TIEBACKS ARE PROPERLY CONNECTED TO ANTENNA AND TOWER
- D. NO RUST OR CORROSION PRESENT ON ANTENNA HARDWARE**
- E. ALL APPROPRIATE FEEDHORN GUY SPRING HANGERS PROPERLY IN PLACE
- F. NO CRACKS OR TEARS IN ANTENNA RAYDOMES
- G. ANTENNA MOUNT STRUCTURAL MEMBERS APPEAR ADEQUATE & SECURE
- H. VISUALLY CHECK ANTENNA SYSTEMS FOR PROPER TILT/LS AND AZIMUTHS

| | | |
|---|---|---|
| X | | |
| X | | |
| X | | |
| | X | |
| | | X |
| X | | |
| X | | |
| X | | |

CUSTOMER: City of Lees Summit MO
SITE ID: 60706
TOWER HT/TYPE: 120

INSPECTION DATE: 10/7/2021

WEATHER: Sunny

TEMPERATURE: 67

| SAT.* | UN-SAT* | N/A |
|-------|---------|-----|
| X | | |

* - SEE APPENDIX

8 WAVEGUIDE/COAX CONNECTIONS AND SUPPORTS

- A. LINE TO FEED CONNECTION SECURE WITH NO EXCESSIVE MOVEMENT ALLOWED
- B. LINE TO FEED CONNECTION HAS NO EXCESSIVE BENDS OR TWISTS
- C. ALL LINE RUNS STRAIGHT AND CONNECTIONS WEATHERPROOFED
- D. ALL WAVEGUIDE/COAX RUNS SUPPORTED CORRECTLY
- E. NO CHAFING OF LINE PROTECTIVE COTING IF "TIED" TO TOWER MEMBERS
- F. ALL LINES PROPERLY SUPPORTED AT TOP WITH HOISTING GRIPS
- G. HOISTING GRIP INSTALLED CORRECTLY AND BELOW UPPER GROUNDING KIT
- H. NO OBVIOUS AIRE LEAKS IN PRESSURIZED WAVEGUIDE / COAX
- I. WAVEGUIDE / COAX PROPERLY GROUNDED
- J. ALL JUMPERS SECURED CORRECLTY
- K. ALL WEATHERPROOFING PROPERLY INSTALLED AND NOT LEAKING

| | | |
|---|--|---|
| X | | |
| X | | |
| X | | |
| X | | |
| X | | |
| X | | |
| X | | |
| | | X |
| X | | |
| X | | |
| | | |

9 TOWER PAINT

- A. NO EXCESSIVE PEELING, FLAKING OR FADING
- B. IF REQUIRED, PROPER FAA APPROVED COLORS AND BANDING
- C. PAINT IS VISUALLY EFFECTIVE AS WARNING TO AIRCRAFT

| | | |
|--|--|---|
| | | X |
| | | X |
| | | X |

10 SAFETY SYSTEMS

- A. CHECK FOR PROPERLY FUNCTIONING FALL ARREST SYSTEM
- B. CLIMBING LADDER, PLATFORM, SAFETY EQUIPMENT SECURELY ATTACHED
- C. CHECK FOR DAMAGED, MISSING OR BROKEN PARTS ON FALL ARREST SYSTEM
- D. CHECK FOR PROPERLY TENSIONED FALL ARREST SYSTEM
- E. CHECK FOR "STOP" AT TOP OF FALL ARREST SYSTEM PREVENTING SLIDING OUT
- F. "NO TRESPASSING" SIGNS PRESENT ON ALL FOUR SIDES OF COMPOUND FENCE**
- G. FCCID SIGN VISIBLE FROM NEAREST PUBLIC ACCESS POINT

| | | |
|---|---|--|
| X | | |
| X | | |
| X | | |
| X | | |
| X | | |
| | X | |
| X | | |

- H. ALL SIGNAGE SECURELY ATTACHED, LEGIBLE AND IN GOOD CONDITION

Yes

- I. NFPA Hazmat Placard SIGN PRESENT ON COMPOUND FENCE

No

- J. RF SAFETY (SMALL YELLOW) SIGN PRESENT ON COMPOUND FENCE

No

- K. RF SAFETY (LARGE) SIGN PRESENT ON COMPOUND FENCE

No

RF SAFETY (LARGE) SIGN COLOR:

SIZE OF SAFETY CLIMB CABLE:

11 INSTRUMENT CHECKS

- A. TOWER PLUMBNESS CHECKED WITH TRANSIT? No

SEE ATTACHED RECORD OF TOWER PLUMB READINGS

- B. GUY CABLE TENSIONS CHECKED? No

SEE ATTACHED RECORD OF GUY TENSIONS READINGS

METHOD USED:

CUSTOMER: City of Lees Summit MO

SPECTION DATE: 10/7/2021

SITE ID: 60706

WEATHER: Sunny

TOWER HT/TYPE: 120

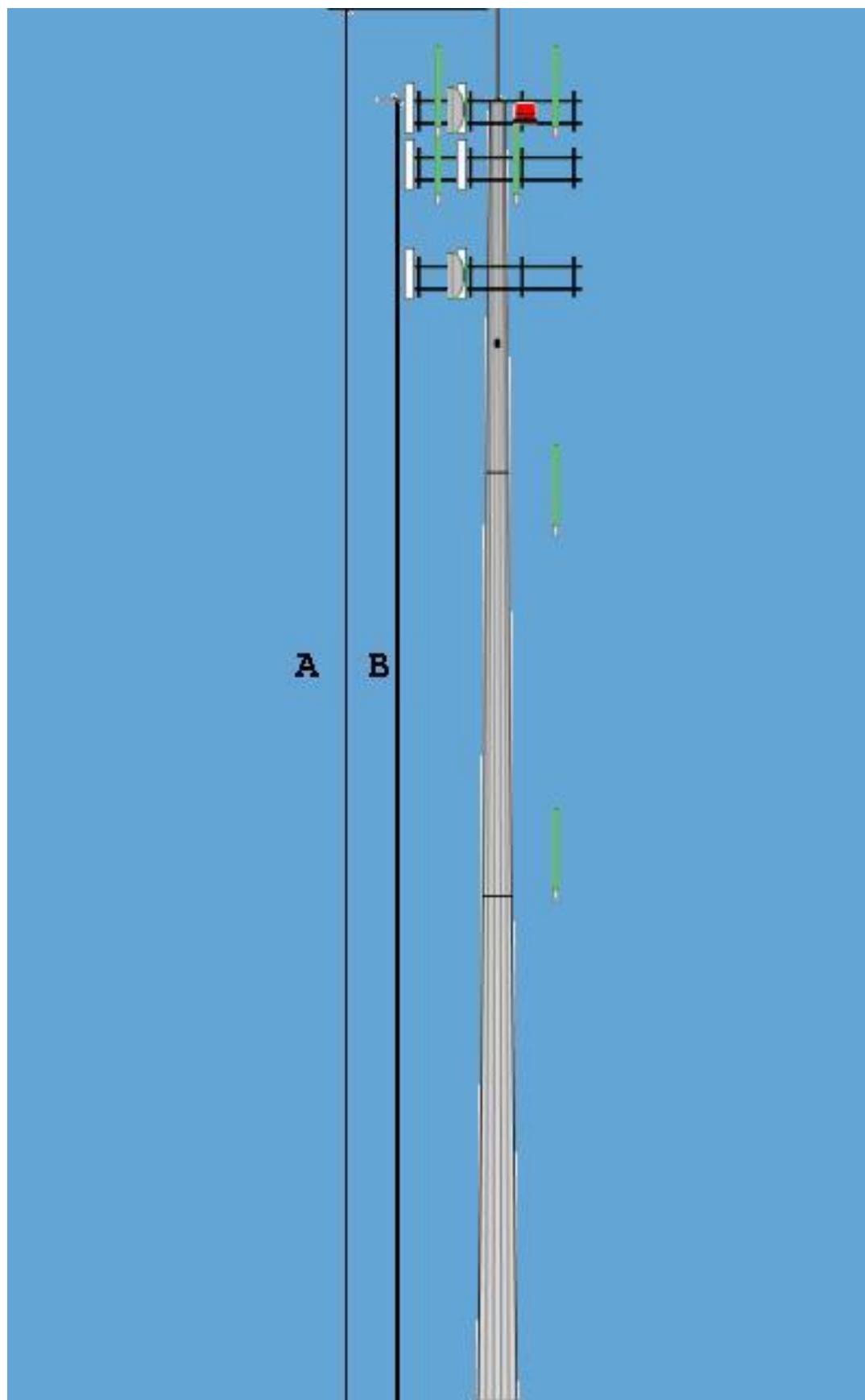
TEMPERATURE: 67

12 COMMENTS

| ITEM # | COMMENT | REPAIRED COMPLETED |
|--------|--|--------------------|
| 1E. | Large Trees WIthin Falling Distance Of Compound | |
| 3I. | Plastic Fencing | |
| 3J. | Di Poles Are Higher Than Lighting Rod | |
| 6K. | Night Mode Only On Timer | |
| 7D. | Yagi Antenna @ 85' Has Minimal Surface Rust On Chain Mount | |
| 10F. | Signs Not Present | |
| I. | Hazmat Sign Not Present | |
| J. | RF Sign Not Presant | |
| K. | Large RF Sign Not Present | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Tower Elevation

Total Height AGL (A) 130
Height of Structure (B) 120



Tower Attachment Identification

| # | Attachment | CL Elev (ft) | Make | Model | Type | Azimuth | Downtilt | Tower Leg | Mount Location | Feedline size | Line Color Code | Coax Face |
|----|---------------------------|--------------|---------------|-------|------|---------|----------|-----------|----------------|---------------|-----------------|-----------|
| 1 | Panel Antenna Left Outer | 105 | AT&T Sector 1 | | | | | | A 1 | | | |
| 2 | Panel Antenna Left Inner | 105 | AT&T Sector 1 | | | | | | A 2 | | | |
| 3 | Panel Antenna Left Outer | 105 | AT&T Sector 1 | | | | | | B 1 | | | |
| 4 | Panel Antenna Left Inner | 105 | AT&T Sector 1 | | | | | | B 2 | | | |
| 5 | Panel Antenna Left Outer | 105 | AT&T Sector 1 | | | | | | G 1 | | | |
| 6 | Panel Antenna Left Inner | 105 | AT&T Sector 1 | | | | | | G 2 | | | |
| 7 | Dish Left | 105 | AT&T Sector 1 | | | | | | A 3 | | | |
| 8 | Wifi Antenna Right | 115 | AT&T Sector 2 | | | | | | A 1 | | | |
| 9 | Panel Antenna Left Inner | 115 | AT&T Sector 2 | | | | | | A 2 | | | |
| 10 | Panel Antenna Left Outer | 115 | AT&T Sector 2 | | | | | | A 3 | | | |
| 11 | Omni Antenna Upright Left | 115 | | | | | | | B 1 | | | |
| 12 | Panel Antenna Left Inner | 115 | | | | | | | B 2 | | | |
| 13 | Panel Antenna Left Outer | 115 | | | | | | | B 3 | | | |
| 14 | Wifi Antenna Right | 115 | | | | | | | G 1 | | | |
| 15 | Panel Antenna Left Inner | 115 | | | | | | | G 2 | | | |
| 16 | Panel Antenna Left Outer | 115 | | | | | | | G 3 | | | |
| 17 | Panel Antenna Left Outer | 120 | | | | | | | A 1 | | | |
| 18 | Panel Antenna Left Inner | 120 | | | | | | | A 2 | | | |
| 19 | Panel Antenna Left Outer | 120 | | | | | | | B 1 | | | |
| 20 | Panel Antenna Left Inner | 120 | | | | | | | B 2 | | | |

Dish Left 120

B 3

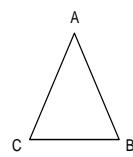
Omni Antenna Upright Right

Omni Antenna Upright Left 121

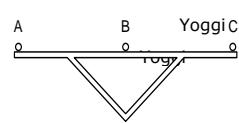
Omni Antenna Upright Left 121

Omni Antenna Upright Right 52

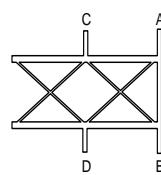
Omni Antenna Upright Right 85



1 – Tower Leg



2 – Sector Mount



3 – Boom Arm

South
South

APPENDIX:**EXPLANATION OF COLUMN HEADINGS:****"SAT."**

SATISFACTORY; item is judged to be acceptable in all categories, including installation, condition, function and structural integrity.

"UNSAT"

UNSATISFACTORY; item is judged to be unacceptable in its present condition and should be corrected. The deficiency is adversely affecting either the performance or its overall structural integrity.

EXPLANATION OF BOLT TORQUE CHECK:

Structural bolt connections are "sampled" at the rate of at least 10 bolts per each 20 vertical feet of tower height. The tower is considered to be in an acceptable condition if the number of undertorqued bolts is found to be 5% of the total sampled, or less. The tower is said to have a "maintenance deficiency" if the number of undertorqued bolts are from 6% to 30% of the total sampled. If this is the case, the tower should be regularly rechecked at least annually; the theory being that since each undertorqued bolt found during the random sampling process is retightened to the proper level, eventually the number of undertorqued bolts will drop back down under the acceptable 5% level. If the number of undertorqued bolts found are greater than 30% of the total sampled, the tower is said to be in a structurally unacceptable condition and all bolts should be checked and retightened to correct levels. The controlling bolt torque values used are:

| Bolt Diameter: | Min. Torque (ft-lbs) |
|----------------|----------------------|
| 3/8" | 20 |
| 1/2" | 45 |
| 5/8" | 90 |
| 3/4" | 125 |

HARDWARE STANDARDS USED:

| NOMINAL GUY CABLE DIA. | MIN TURNBUCKLE SIZE | THIMBLE SIZE W/FIST GRIPS OR CROSBY CLAMPS | THIMBLE SIZE W/PREFORMED DEAD END GRIPS |
|------------------------|---------------------|--|---|
| 3/8 EHS | 3/4 X 12 | 3/8" | 1/2" |
| 7/16 EHS | 3/4 X 12 | 7/16" | 9/16" |
| 1/2 EHS | 7/8 X 12 | 1/2" | 5/8" |
| 9/16 EHS | 1 X 12 | 9/16" | 5/8" |
| 5/8 EHS | 1 X 12 | 5/8" | 3/4" |
| 3/4 EHS & BS | 1-1/4 X 12 | 3/4" | 7/8" |
| 7/8 BS | | 7/8" | 1" |