

# Tower/Site Field Notebook

Site Name: \_\_\_\_\_

Visit Date: \_\_\_\_\_

Visited By: \_\_\_\_\_

# General Information

## Location

Tower Site Name

GPS Latitude    N

GPS Longitude    W

## Tower

Height  ft

Type  Guy  Self-Support  Other (circle one)

## Current Weather

Temperature  °F

Wind Speed  MPH

Cloud Condition

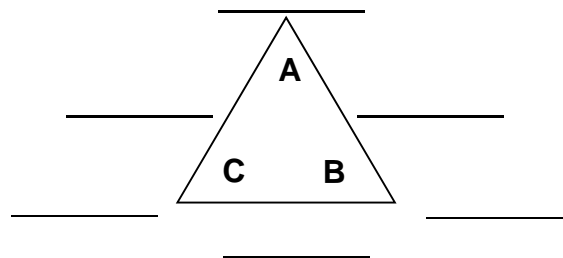
## Climbing Facilities

	Yes/No	Location
Climbing Ladder	<input type="checkbox"/>	<input style="width: 90%; height: 20px;" type="text"/>
Climbing Pegs	<input type="checkbox"/>	<input style="width: 90%; height: 20px;" type="text"/>
Safety Climb Cable	<input type="checkbox"/>	<input style="width: 90%; height: 20px;" type="text"/>

## Signage

	Not Present	On Fence	On Shelter	On Tower	Guy Anchor Fence
Site Identification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No Trespassing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF Warning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Warning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other <input style="width: 180px; height: 20px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input style="width: 180px; height: 20px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Tower Orientation (face/side azimuths)





## Tower Geometry

Total Height of Structure (ft):

Tower Manufacturer:

	Group 1 - Top of Tower	Group 2	Group 3	Group 4
Elev at Top of Section				
Assembly Model				
Top Face Width (ft)				
Leg Size				
Diagonal Size				
Horizontal Size				
Inner Bracing Size				
Flange Bolt Size (t.o. section)				
Flange Bolt Material				
Bracing Bolt Size				
Bracing Bolt Material				

	Group 5	Group 6	Group 7	Group 8
Elev at Top of Section				
Assembly Model				
Top Face Width (ft)				
Leg Size				
Diagonal Size				
Horizontal Size				
Inner Bracing Size				
Flange Bolt Size (t.o. section)				
Flange Bolt Material				
Bracing Bolt Size				
Bracing Bolt Material				

	Group 9	Group 10	Group 11	Group 12
Elev at Top of Section				
Assembly Model				
Top Face Width (ft)				
Leg Size				
Diagonal Size				
Horizontal Size				
Inner Bracing Size				
Flange Bolt Size (t.o. section)				
Flange Bolt Material				
Bracing Bolt Size				
Bracing Bolt Material				



# Torque Arm

Shape of Members:

Length of Horizontal Members:

Sketch Top

Sketch Side

Sketch Top

# Antennas

	Array 1		Array 2		Array 3		Array 4	
Antenna Type								
Antenna Size (ft)								
Radome Type								
Antenna Manufacturer								
Antenna Model								
Antenna Elevation								
Mount Location								
Horizontal Offset (in)								
Lateral Offset (ft)								
Antenna Azimuth								
Comments								
Feedline Shape (circle)	Round	Elliptical	Round	Elliptical	Round	Elliptical	Round	Elliptical
Feedline Diameter								
Feedline Face								
Number of Feedlines								

	Array 5		Array 6		Array 7		Array 8	
Antenna Type								
Antenna Size (ft)								
Radome Type								
Antenna Manufacturer								
Antenna Model								
Antenna Elevation								
Mount Location								
Horizontal Offset (in)								
Lateral Offset (ft)								
Antenna Azimuth								
Comments								
Feedline Shape (circle)	Round	Elliptical	Round	Elliptical	Round	Elliptical	Round	Elliptical
Feedline Diameter								
Feedline Face								
Number of Feedlines								

	Array 9		Array 10		Array 11		Array 12	
Antenna Type								
Antenna Size (ft)								
Radome Type								
Antenna Manufacturer								
Antenna Model								
Antenna Elevation								
Mount Location								
Horizontal Offset (in)								
Lateral Offset (ft)								
Antenna Azimuth								
Comments								
Feedline Shape (circle)	Round	Elliptical	Round	Elliptical	Round	Elliptical	Round	Elliptical
Feedline Diameter								
Feedline Face								
Number of Feedlines								

	Array 13		Array 14		Array 15		Array 16	
Antenna Type								
Antenna Size (ft)								
Radome Type								
Antenna Manufacturer								
Antenna Model								
Antenna Elevation								
Mount Location								
Horizontal Offset (in)								
Lateral Offset (ft)								
Antenna Azimuth								
Comments								
Feedline Shape (circle)	Round	Elliptical	Round	Elliptical	Round	Elliptical	Round	Elliptical
Feedline Diameter								
Feedline Face								
Number of Feedlines								



	Array 17		Array 18		Array 19		Array 20	
Antenna Type								
Antenna Size (ft)								
Radome Type								
Antenna Manufacturer								
Antenna Model								
Antenna Elevation								
Mount Location								
Horizontal Offset (in)								
Lateral Offset (ft)								
Antenna Azimuth								
Comments								
Feedline Shape (circle)	Round	Elliptical	Round	Elliptical	Round	Elliptical	Round	Elliptical
Feedline Diameter								
Feedline Face								
Number of Feedlines								

	Array 21		Array 22		Array 23		Array 24	
Antenna Type								
Antenna Size (ft)								
Radome Type								
Antenna Manufacturer								
Antenna Model								
Antenna Elevation								
Mount Location								
Horizontal Offset (in)								
Lateral Offset (ft)								
Antenna Azimuth								
Comments								
Feedline Shape (circle)	Round	Elliptical	Round	Elliptical	Round	Elliptical	Round	Elliptical
Feedline Diameter								
Feedline Face								
Number of Feedlines								

# Self-Support Tower Verticality/Twist Measurement

Wind Speed: \_\_\_\_\_ mph

Temperature: \_\_\_\_\_ deg F

## Transit Position #1

Distance From Tower: \_\_\_\_\_ ft  
(mark transit position on site drawing)

⊥ to Leg: \_\_\_\_\_ (leg azimuth)

Angle from Horz. to Tower Top of Leg: \_\_\_\_\_ deg (vert. Angle)

Angle Deviation (left neg/right pos) at Tower Top: \_\_\_\_\_ deg

### Note:

For three sided tower, survey two legs, 120 deg. apart.

For four sided tower, survey second leg, 90 deg. from first.

## Transit Position #2

Distance From Tower: \_\_\_\_\_ ft  
(mark transit position on site drawing)

⊥ to Leg: \_\_\_\_\_ (leg azimuth)

Angle from Horz. to Tower Top of Leg: \_\_\_\_\_ deg (vert. Angle)

Angle Deviation (left neg/right pos) at Tower Top: \_\_\_\_\_ deg

### Note:

If all tower tops surveyed are off same direction, tower is twisted.

If the tower is twisted, then:

For three sided tower, survey third leg, same manner.

For four sided tower, survey third and fourth leg, same manner.

## Transit Position #3 (may not be required)

Distance From Tower: \_\_\_\_\_ ft  
(mark transit position on site drawing)

⊥ to Leg: \_\_\_\_\_ (leg azimuth)

Angle from Horz. to Tower Top of Leg: \_\_\_\_\_ deg (vert. Angle)

Angle Deviation (left neg/right pos) at Tower Top: \_\_\_\_\_ deg

## Transit Position #4 (may not be required)

Distance From Tower: \_\_\_\_\_ ft  
(mark transit position on site drawing)

⊥ to Leg: \_\_\_\_\_ (leg azimuth)

Angle from Horz. to Tower Top of Leg: \_\_\_\_\_ deg (vert. Angle)

Angle Deviation (left neg/right pos) at Tower Top: \_\_\_\_\_ deg

## Guy Tower Verticality/Twist Measurement

Wind Speed: \_\_\_\_\_ mph

Temperature: \_\_\_\_\_ deg F

### Transit Position #1

Distance From Tower: \_\_\_\_\_ ft  
(mark transit position on site drawing)

⊥ to Leg: \_\_\_\_\_ (leg azimuth)

Angle from Horz. to Tower Top of Leg:  
(vertical angle)

\_\_\_\_\_ deg

Top Guy      2nd Guy      3rd Guy      4th Guy      5th Guy

Angle Deviation (left neg/right pos) at each elevation:

\_\_\_\_\_

Note:

For three sided tower, survey two legs, 120 deg. apart.

For four sided tower, survey second leg, 90 deg. from first.

### Transit Position #2

Distance From Tower: \_\_\_\_\_ ft  
(mark transit position on site drawing)

⊥ to Leg: \_\_\_\_\_ (leg azimuth)

Angle from Horz. to Tower Top of Leg:  
(vertical angle)

\_\_\_\_\_ deg

Top Guy      2nd Guy      3rd Guy      4th Guy      5th Guy

Angle Deviation (left neg/right pos) at each elevation:

\_\_\_\_\_

Note:

If all tower tops surveyed are off same direction, tower is twisted.

If the tower is twisted, then:

For three sided tower, survey third leg, same manner.

For four sided tower, survey third and fourth leg, same manner.

### Transit Position #3 (may not be required)

Distance From Tower: \_\_\_\_\_ ft  
(mark transit position on site drawing)

⊥ to Leg: \_\_\_\_\_ (leg azimuth)

Angle from Horz. to Tower Top of Leg:  
(vertical angle)

\_\_\_\_\_ deg

Top Guy      2nd Guy      3rd Guy      4th Guy      5th Guy

Angle Deviation (left neg/right pos) at each elevation:

\_\_\_\_\_

### Transit Position #4 (may not be required)

Distance From Tower: \_\_\_\_\_ ft  
(mark transit position on site drawing)

⊥ to Leg: \_\_\_\_\_ (leg azimuth)

Angle from Horz. to Tower Top of Leg:  
(vertical angle)

\_\_\_\_\_ deg

Top Guy      2nd Guy      3rd Guy      4th Guy      5th Guy

Angle Deviation (left neg/right pos) at each elevation:

\_\_\_\_\_

## Condition Assessment

<b>Tower Structure Condition</b>	Satisfactory	Needs Repair	Critical	Not Applicable	<b>Comments</b>
Damaged members:					
Loose members:					
Missing members:					
Climbing facilities, platforms, catwalks:					
Loose and/or missing bolts and/or locking devices:					
Visible cracks in welded connections:					
Weep holes (unobstructed):					

### Tower Finish

Paint and/or galvanizing condition:					
Rust and/or corrosion:					

### Tower Lighting

Conduit, junction boxes, and fasteners:					
Wiring condition:					
Light lenses:					
Bulb condition:					
Controllers-Flasher:					
Controllers-Photo Control:					
Controllers-Alarms:					

### Tower Grounding

Connections:					
Corrosion:					
Lightening protection:					

### Antennas and Feedlines

Antenna condition					
Mount and/or ice shield condition:					
Feed line condition:					
Hanger condition:					
Secured to structure:					
Coax properly grounded					

**Guy Condition**

	Satisfactory	Needs Repair	Critical	Not Applicable
Strand:				
Turnbuckle or equivalent:				
Cable thimbles properly in place:				
Service sleeves properly in place:				
Cable clamps applied properly				
Figure eight properly applied:				
Signs of damaged or slipping strands				
Preformed wraps properly in place:				
Poured sockets:				
Shackles, bolts, pins, and cotter pins:				

**Tower Foundations**

**Ground Condition**

Settlement, movement or earth cracks:				
Erosion:				
Site condition:				

**Anchorage Condition**

Nuts and/or nut locking device:				
Grout condition:				
Anchorage and/or anchor rods:				

**Concrete Condition**

Cracking, spalling, or splitting:				
Chipped or broken concrete:				
Honeycombing:				
Low spots to collect moisture:				

**Guy Anchor Foundations**

Settlement, movement or earth cracks:				
Backfill heaped over concrete for water shedding:				
Anchor rod condition below earth:				
Corrosion control measures:				
Anchor heads clear of earth:				
Guys are properly grounded:				

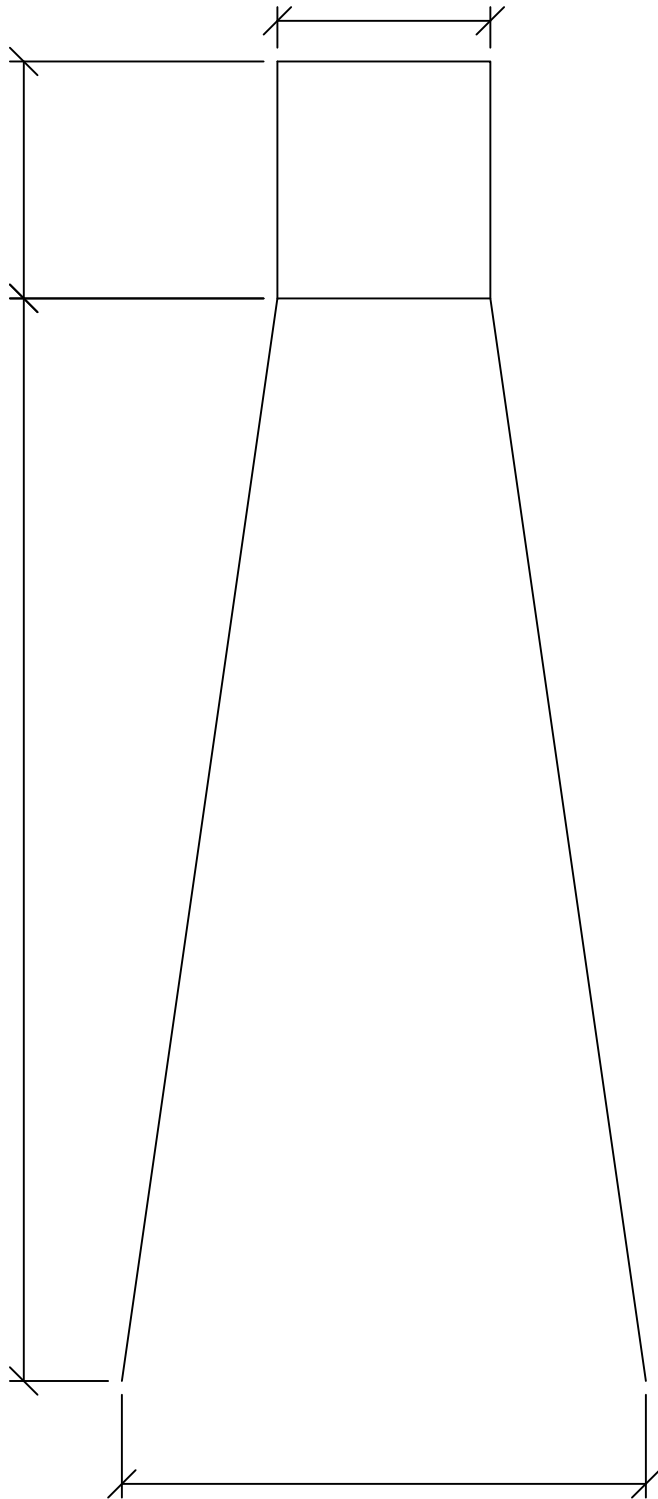
# GEOMETRY SKETCH

NUMBER OF SECTIONS: \_\_\_\_\_

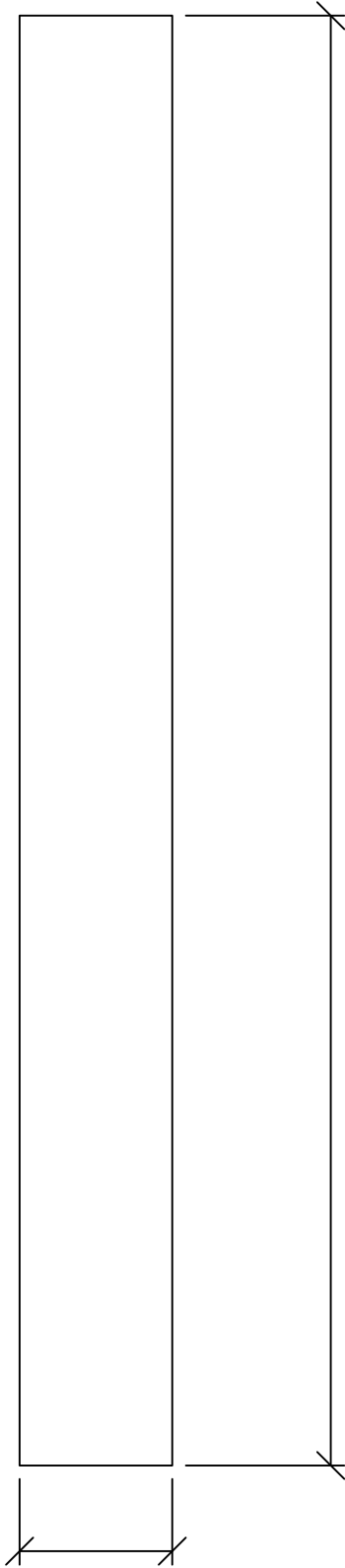
FEET PER SECTION: \_\_\_\_\_

NUMBER OF SECTIONS: \_\_\_\_\_

FEET PER SECTION: \_\_\_\_\_



# GEOMETRY SKETCH



NUMBER OF  
SECTIONS: \_\_\_\_\_

FEET PER  
SECTION: \_\_\_\_\_





## Site Deficiency List

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

**Site Deficiency List**

9.	
10.	
11.	
12.	
13.	
14.	
15.	
16.	

### Site Photograph Checklist

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Site ID Marker            | <input type="checkbox"/> Overall Tower                  | <input type="checkbox"/> Antenna Locations            |
| <input type="checkbox"/> Site Compound (side 1)    | <input type="checkbox"/> Tower Base                     | <input type="checkbox"/> Tower Lighting               |
| <input type="checkbox"/> Site Compound (side 2)    | <input type="checkbox"/> Ice Bridge                     | <input type="checkbox"/> Lightning Protection         |
| <input type="checkbox"/> Site Compound (side 3)    | <input type="checkbox"/> Coax Routing at Base           | <input type="checkbox"/> Coax Routing on Tower        |
| <input type="checkbox"/> Site Compound (side 4)    | <input type="checkbox"/> Anchor Points                  | <input type="checkbox"/> Panoramic View (north)       |
| <input type="checkbox"/> Site Gate (each)          | <input type="checkbox"/> Generator/Tank                 | <input type="checkbox"/> Panoramic View (east)        |
| <input type="checkbox"/> Looking Towards Access Rd | <input type="checkbox"/> Shelter (all 4 sides)          | <input type="checkbox"/> Panoramic View (south)       |
| <input type="checkbox"/> All Signage               | <input type="checkbox"/> All Utility Demarks/Power Ent. | <input type="checkbox"/> Panoramic View (west)        |
| <input type="checkbox"/> Site/Tower Deficiencies   | <input type="checkbox"/> All Site Equipment             | <input type="checkbox"/> Site View of Compound (down) |

NORTH

SCALE  1" =