

FCC Form 312

Exhibit B:

- **Radiation Hazard**

Exhibit C:

- **Site Plan**

Exhibit D:

- **Frequency**

Big Bend Telephone Company, Inc.

Radiation Hazard Summary Statement

The attached Radiation Hazard Analysis indicates that when the earth station antenna is operated at, or below, the proposed maximum total licensed input power of 100 watts, all areas around the antenna except the main beam, fall below the 1 milliwatt per square centimeter maximum power density established for general public exposure.

The earth station antenna's minimum elevation angle of 37.8 degrees directs the earth station antenna's main beam skyward, well above areas of human occupancy eliminating the possibility of human exposure.

The earth station antenna will be enclosed in a locked 6 foot high chain link fence on three sides and a building wall on the remaining side. Radiation hazard warning signs will be posed on all sides of the fence. Transmitter power will be turned off during any antenna maintenance or operation that could potentially expose personnel to a radiation hazard.

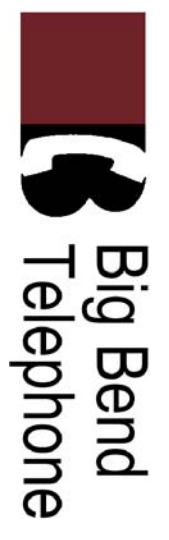
REVISIONS						
REV.	EON	DESCRIPTION	DRFT.	DATE	CHK'D	DATE
1		Initial API Release	MRW	10-4-05		



- NOTES:**
- Elevation movement of antenna can be restricted to no lower than 35°
 - Foundation Size approximately 17' X 17'
 - Antenna azimuth pivot radius is 16.5'

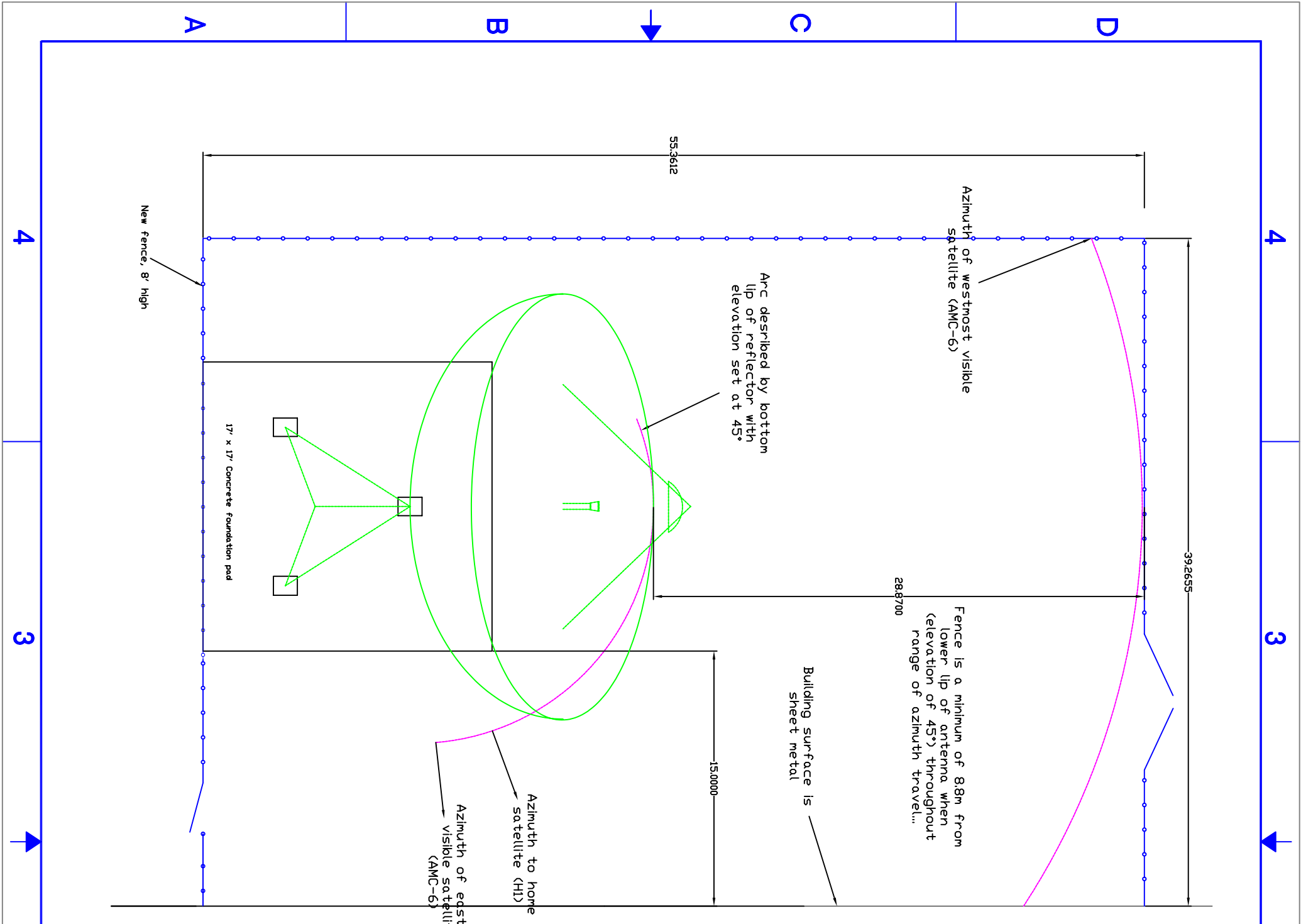
- New 8' fence
- Antenna 7.6m antenna
- Antenna physical movement arcs

**BBTC
CO
BUILDING
12'9" height**



**BBTC Earth Station Site Layout
Alpine, Texas**

CONTRACT NO.		TITLE	
APPROVALS	DATE	ADVANCED PROJECTS INTERNATIONAL	
DRAWN Mike Wise	10-4-05	BBTC Earth Station Site Layout	
CHECKED		Alpine, Texas	
DESIGNER		SIZE CODE IDENT NO.	DRAWING NO.
ENG.		D	X 1
MFG.		SCALE: 1/1	FILE NAME:
Q.A.			
		SHEET 1 OF 2	REV. 2



A B C D 4 3 2 4

FCC Form 312
Exhibit D – Frequency
Big Bend Telephone Company, Inc.

Emission Designator
Modulation & Service
Max EIRP per Carrier (dBW)
Max EIRP Density per Carrier (dBW/4kHz)

The applicant anticipates that the proposed earth station will provide a variety of data rates at various bandwidths depending on the application.

Listed on the FCC Form 312 Schedule B7 "Particulars of Operation" box (e) 1M00G7W (f) 69.0 (g) 45.0 represents the minimum bandwidth (and associated Maximum EIRP and Maximum EIRP Density) of a range of bandwidths desired.

Also listed on the FCC Form 312 Schedule B7 "Particulars of Operation" box (e) 36M0G7W (f) 79.0 (g) 39.5 which represents the maximum bandwidth (and associated Maximum EIRP and Maximum EIRP Density) of a range of bandwidths desired.

The applicant request the ability to utilize bandwidths between 1M00G7W and 36 M0G7W with the provision that the Maximum EIRP of 79.0 dBW and Maximum EIRP Density of 45.0 dBW/4kHz would not be exceeded. Additionally, at no time would the antenna flange input power of -14.0 dBW/4kHz exceeded.