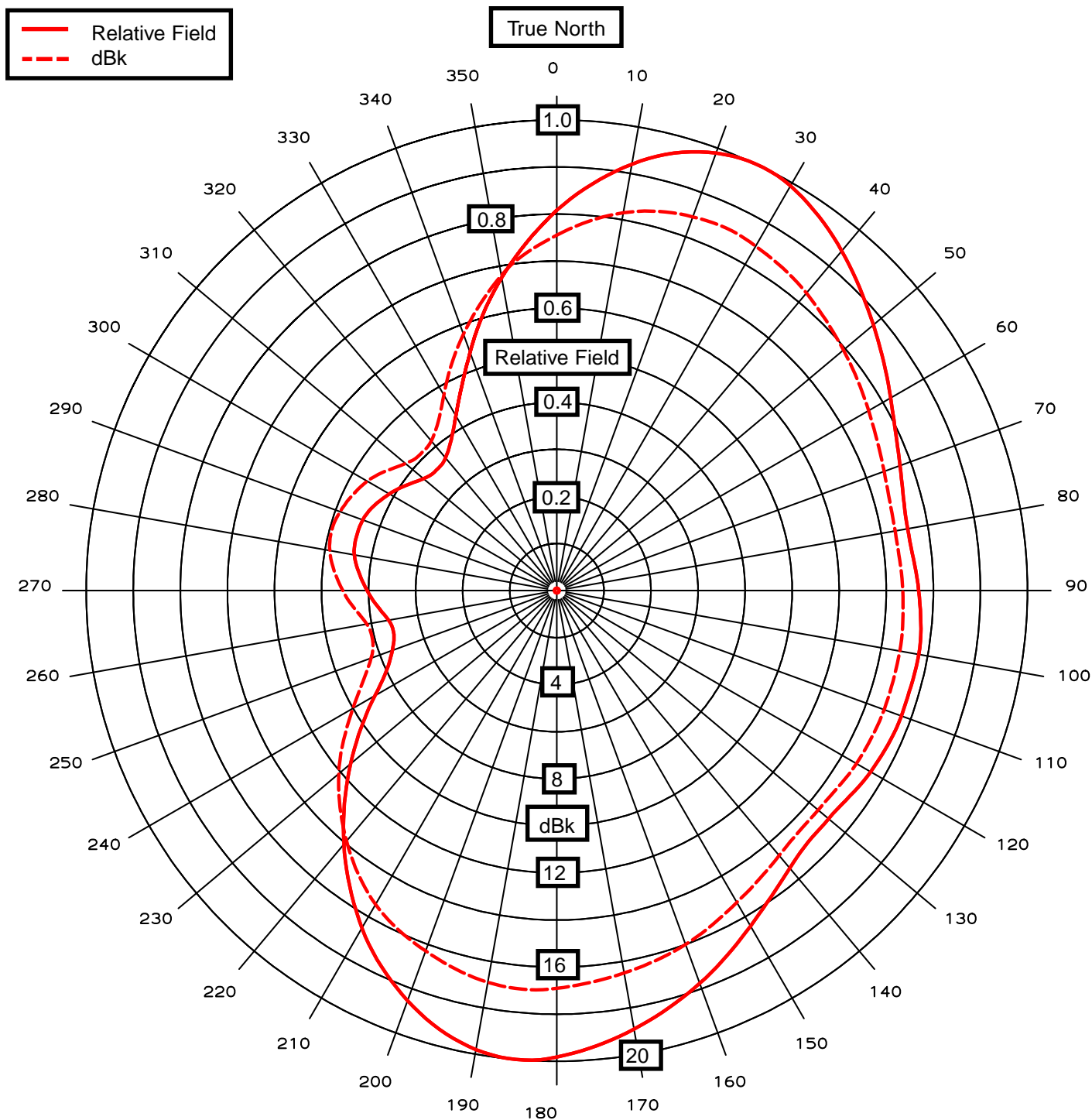


Exhibit 40 - Statement A  
**NATURE OF THE PROPOSAL**  
**PROPOSED ANTENNA SYSTEM**  
prepared for  
**Bend Licenses, Limited Partnership**  
KTVZ-DT Bend, Oregon  
Facility ID 55907  
Ch. 18 50 kW 188 m

*Bend Licenses, Limited Partnership* is the permittee of KTVZ-DT, Channel 18, Bend, Oregon (file number BPCDT-19991027AAU) and licensee of the paired analog KTVZ(TV) Channel 21 facility (BLCT-19920820KT). The KTVZ-DT Construction Permit (“CP”) authorizes an effective radiated power (ERP) of 50 kW, a directional antenna system, and an antenna height above average terrain (HAAT) of 188 meters. The instant application proposes to modify the CP to specify a different directional antenna pattern and to increase the antenna radiation center above ground level by one meter. Additionally, the instant application provides corrected transmitter site ground elevation data.

The proposed KTVZ-DT antenna system will be side-mounted on an existing antenna supporting structure. The licensed KTVZ analog Channel 21 transmitting is top-mounted on this structure. No change in the overall height of the structure is proposed. Due to the height above ground of this existing structure (58 meters) and the lack of known landing areas nearby, the structure is not required to be registered with the Commission’s Antenna Structure Registration program.

The proposed transmitting antenna, a *Dielectric* model TFU-12DSB-I(C), is directional in the horizontal plane. This antenna will employ 1.0 degree of electrical beam tilt. The maximum ERP will be 50 kilowatts, horizontally polarized. The antenna system will be installed in accordance with the manufacturer’s instructions. Said installation will be supervised on-site by a competent technical representative of the applicant. The antenna’s horizontal plane pattern, expressed in terms of relative field and power, is supplied as **Exhibit 40 - Figure 1**, properly oriented relative to True North. **Exhibit 40 - Figure 2** and **2A** present the theoretical vertical plane (elevation) pattern for the antenna system.



# **FIGURE 1** **ANTENNA HORIZONTAL PLANE RADIATION PATTERN**

prepared February 2002 for  
**Bend Licenses, Limited Partnership**  
 KTVZ-DT Bend, Oregon  
 Facility ID 55907  
 Ch. 18 50 kW 188 m

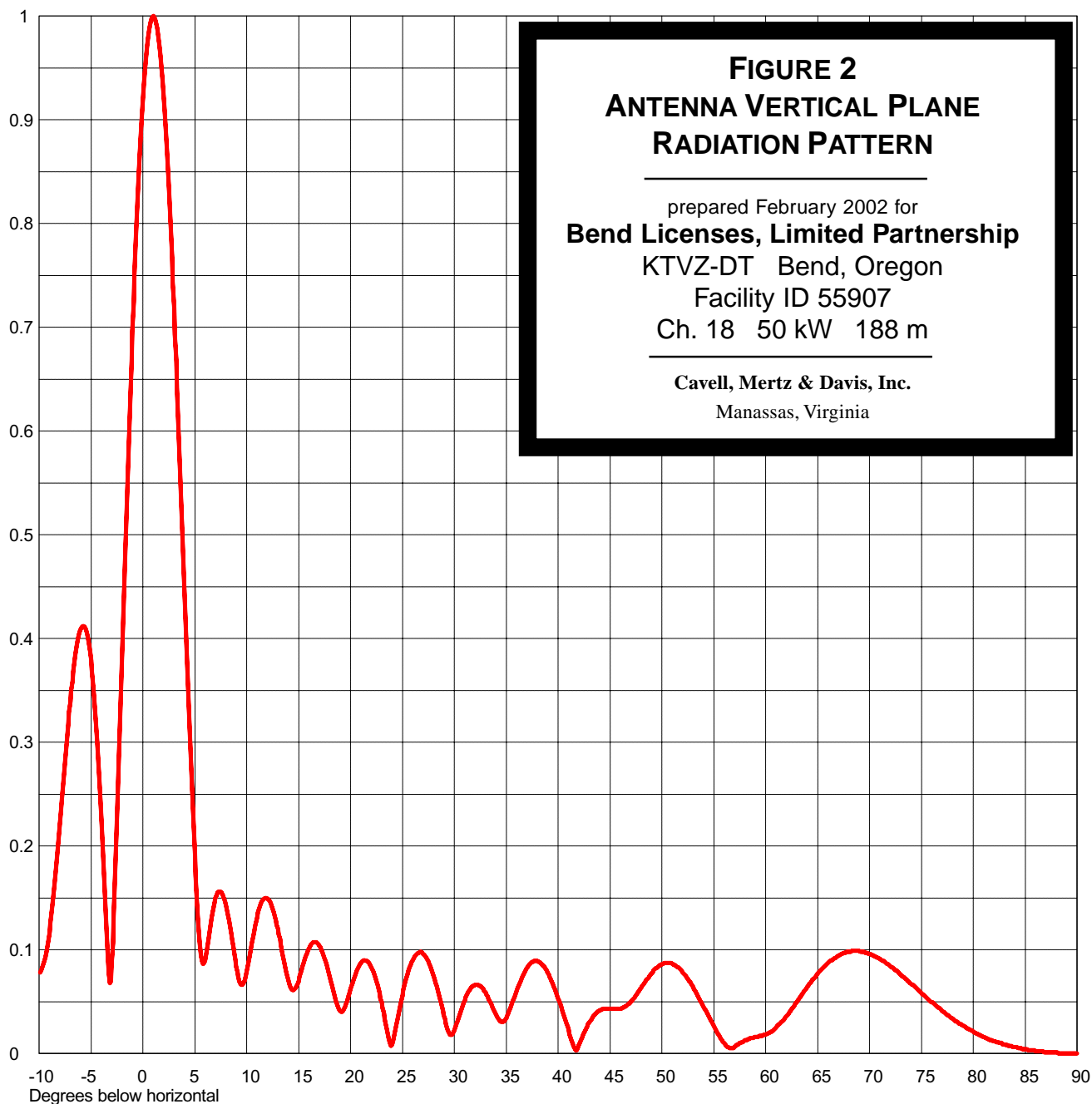
**Cavell, Mertz & Davis, Inc.**  
 Manassas, Virginia



Proposal Number		Revision	
Date	<b>21 Feb 2002</b>		
Call Letters	<b>KTVZ-DT</b>	Channel	<b>18</b>
Location	<b>Bend, OR</b>		
Customer			
Antenna Type	<b>TFU-12DSB-I</b>		

### ELEVATION PATTERN

RMS Gain at Main Lobe	<b>12.0 (10.79 dB)</b>	Beam Tilt	<b>1.00 Degrees</b>
RMS Gain at Horizontal	<b>10.1 (10.04 dB)</b>	Frequency	<b>497.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>12B120100</b>





Proposal Number

Date

Call Letters

Location

Customer

Antenna Type

**21 Feb 2002****KTVZ-DT****Bend, OR****TFU-12DSB-I**

Revision

Channel

**18****ELEVATION PATTERN**

RMS Gain at Main Lobe

**12.0 (10.79 dB)**

RMS Gain at Horizontal

**10.1 (10.04 dB)**

Calculated / Measured

**Calculated**

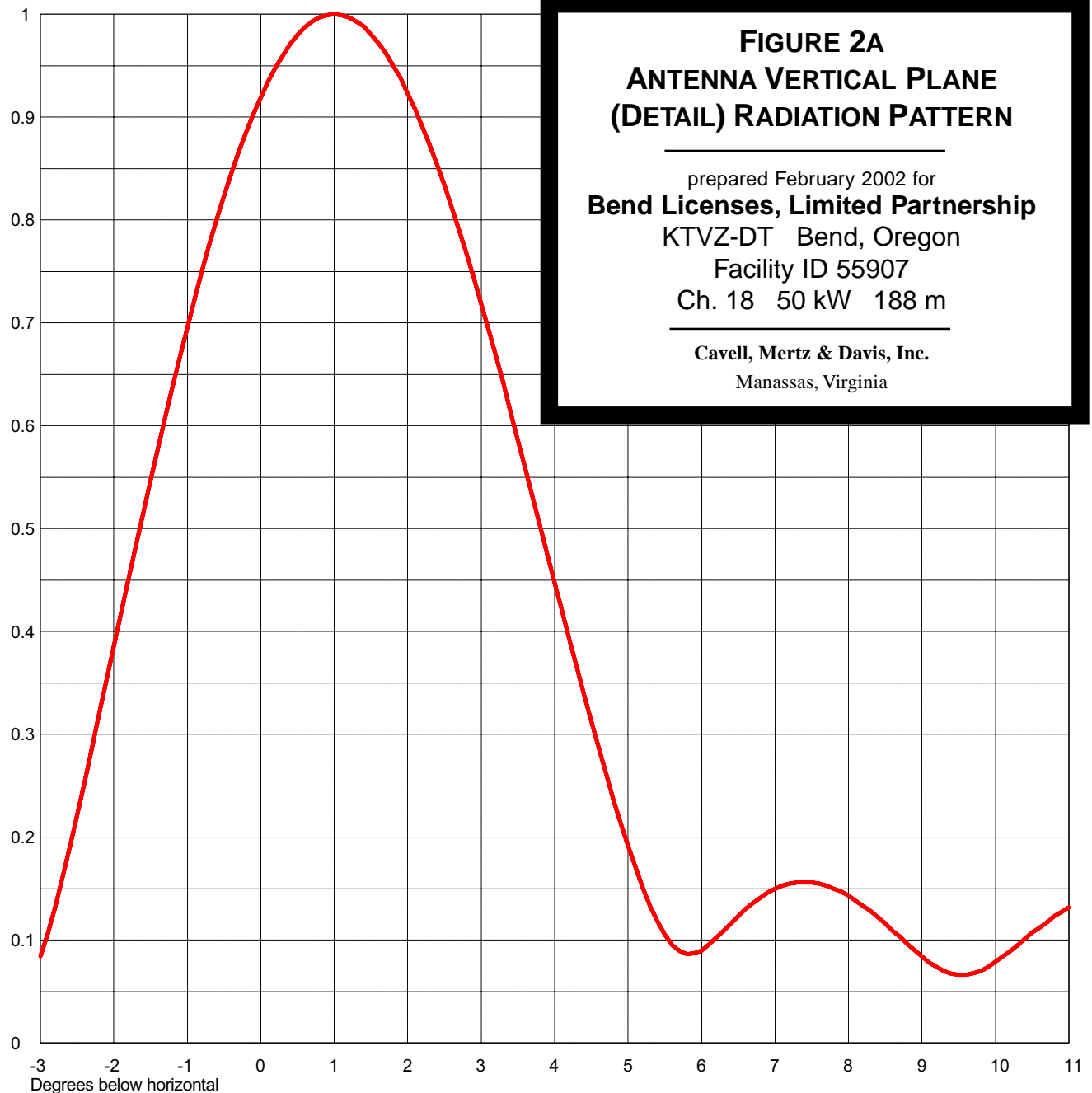
Beam Tilt

**1.00 Degrees**

Frequency

**497.00 MHz**

Drawing #

**12B120100**

Remarks: