

Contour Distance Determination

KTVW License Partnership, G.P

KTVW-DT Phoenix, AZ

Ch 33 470 kW 510 m (Aux)

The distances to the licensed and proposed KTVW-DT auxiliary noise-limited contours were determined using the procedure specified in §73.625(b)(2) of the Commission's rules. The antenna elevation radiation pattern was not used to determine effective radiated power (ERP) values for the licensed main facility contour, but it was used for the proposed auxiliary facility ERP determination.

The effective antenna height (EAH) above average terrain values were computed for 10 degree intervals of azimuth using the NGDC 3 arc-second terrain database and the pertinent antenna radiation center elevations above sea level. From these EAH values, the depression angle to the radio horizon was calculated using the formula specified in §73.625(b)(2). The pertinent antenna relative field value was obtained from the attached elevation radiation patterns. The data obtained are:

Condition	Licensed Main			Proposed Auxiliary		
	EAH (m)	A _h (°)	Relative Field	EAH (m)	A _h (°)	Relative Field
Maximum EAH (310°)	551	0.65	0.98	551	0.65	0.79
Minimum EAH (60°)	435	0.58	0.96	435	0.58	0.76

The relative field values for the licensed main antenna are above 90%, so the full ERP of 470 kW is used to determine contour distances along all 36 radial bearings. The relative field values for the proposed auxiliary antenna are all below 90%, so the ERP calculated with the antenna elevation pattern relative value must be used for all 36 radial bearings, per §73.625(b)(2).

Figure 1: KTVW-DT Main & Proposed Auxiliary Coverage

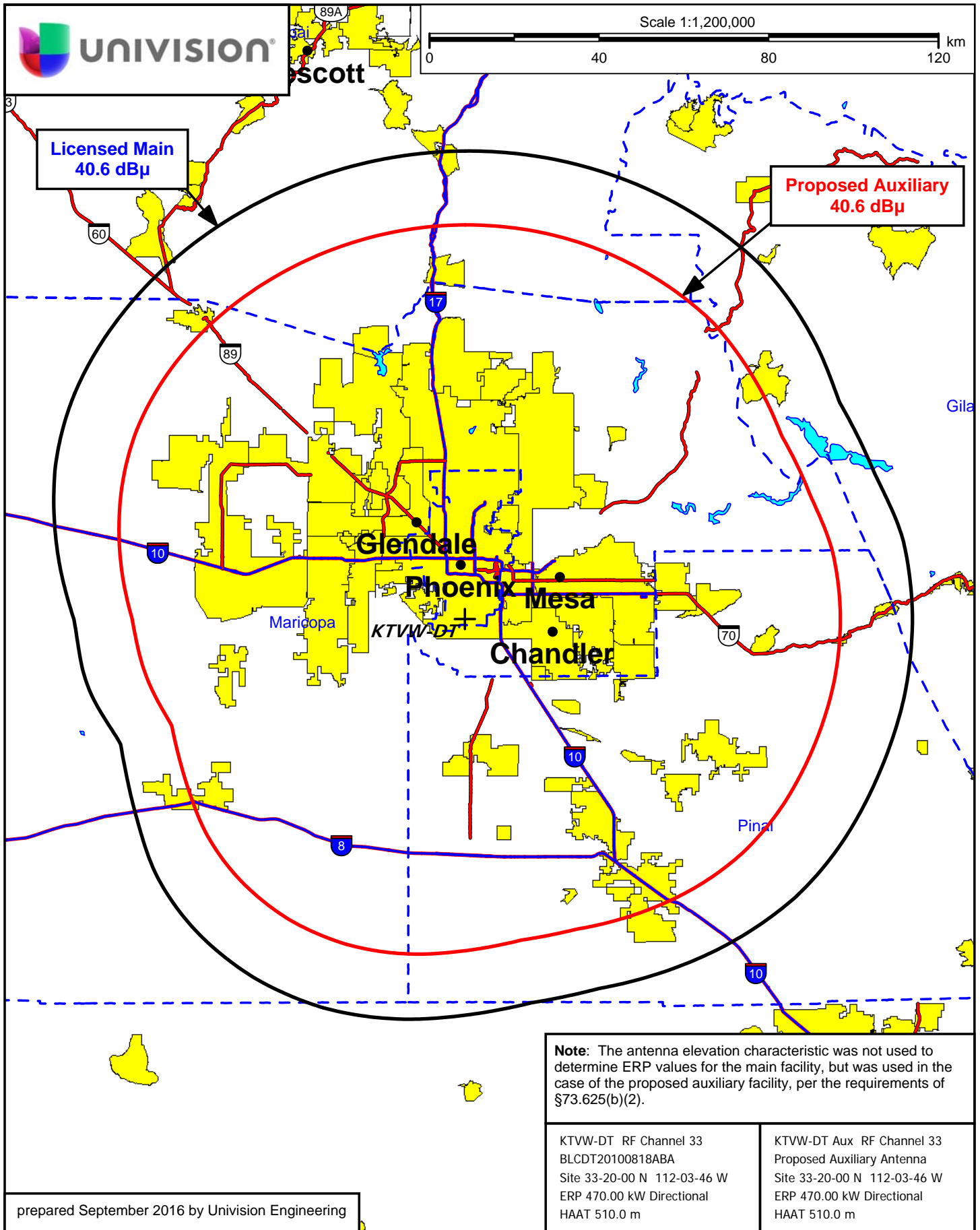


Figure 2: Main Antenna Elevation Pattern

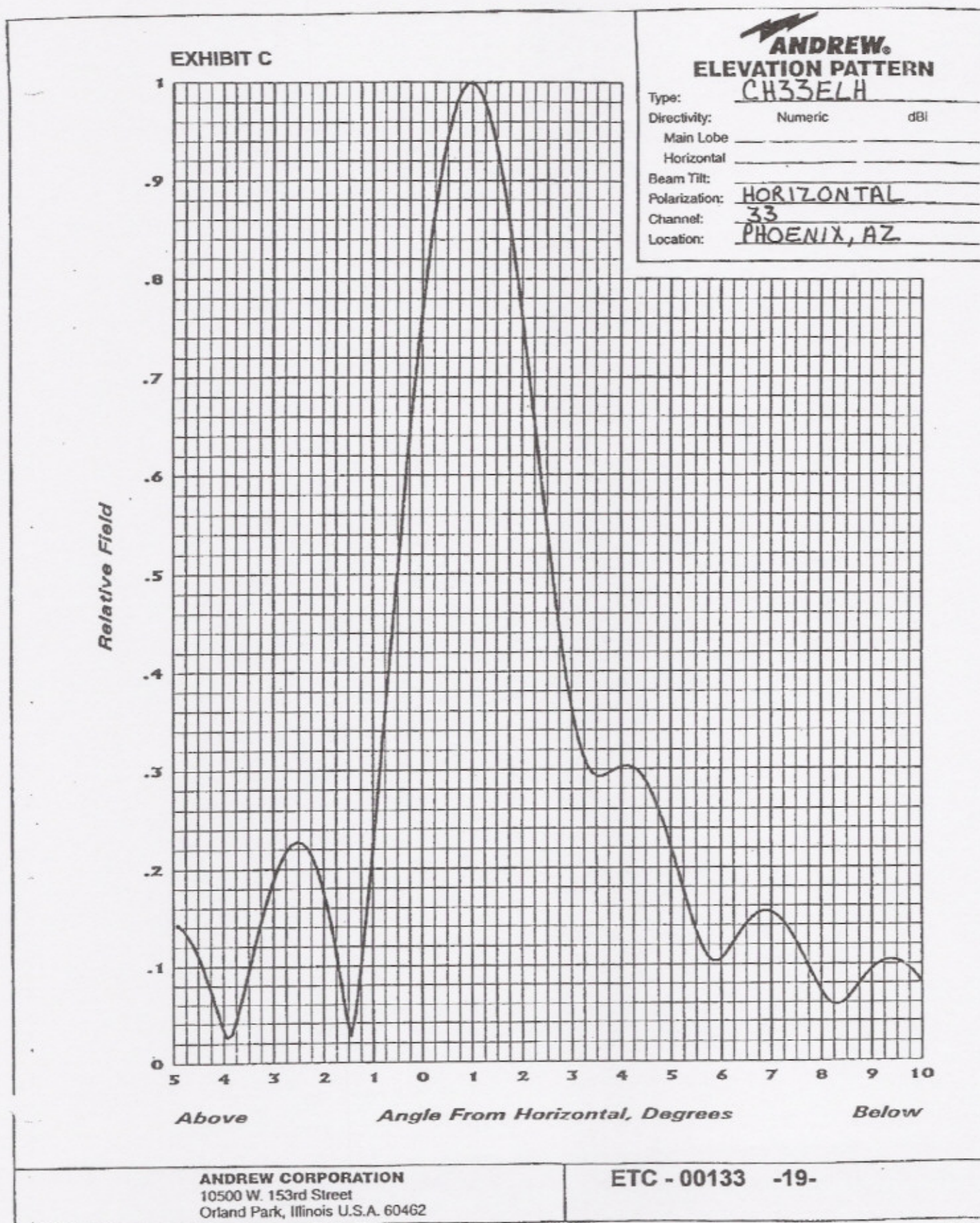
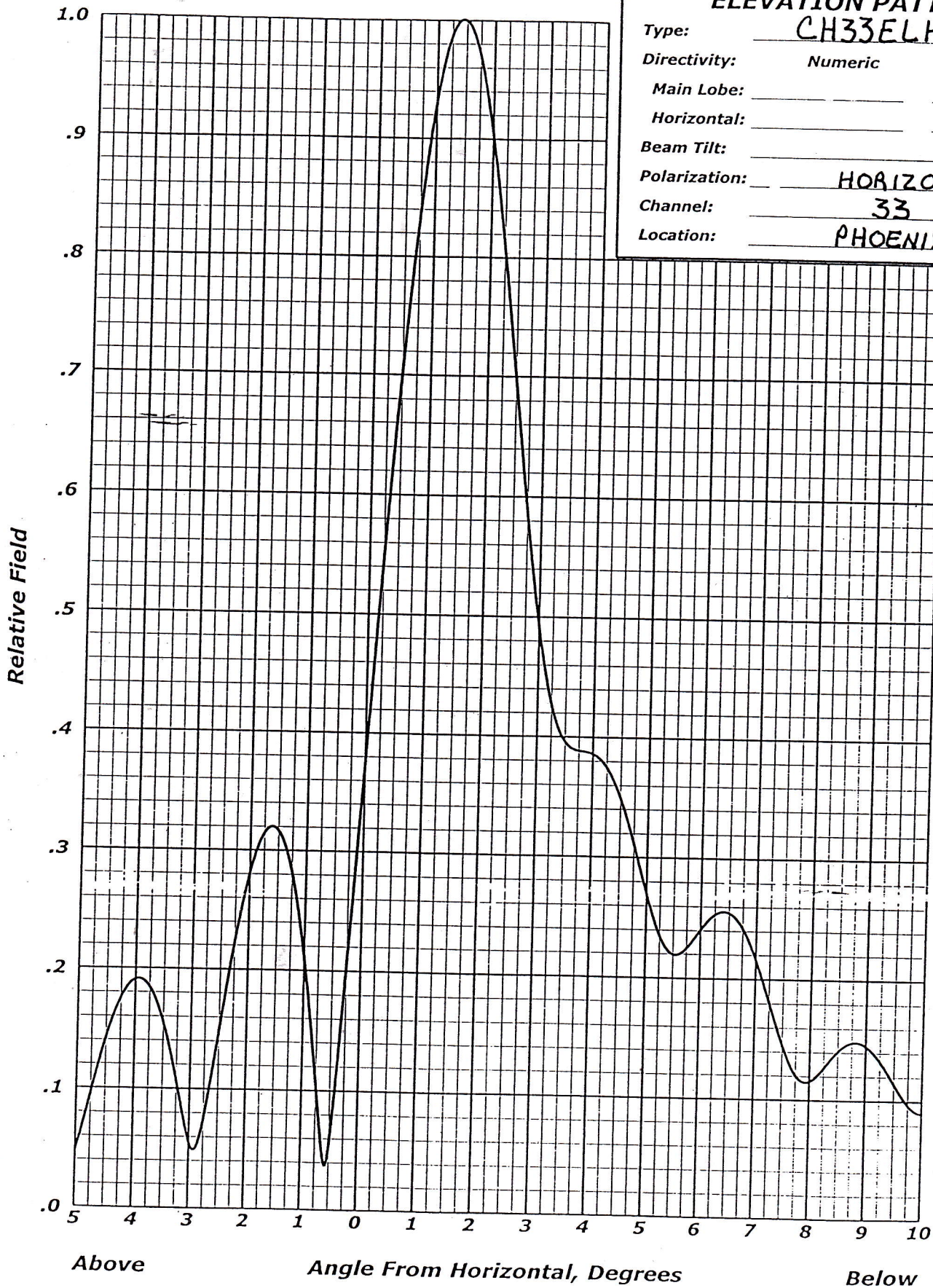


Figure 3: Auxiliary Antenna Elevation Pattern

EXHIBIT C



ANDREW
ELEVATION PATTERN

Type: CH33ELH
 Directivity: Numeric dBd
 Main Lobe: _____
 Horizontal: _____
 Beam Tilt: _____
 Polarization: HORIZONTAL
 Channel: 33
 Location: PHOENIX, AZ